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

# DATA PACKAGE

## GC SEMI-VOLATILES

**PROJECT NAME : NJ SOIL PT**

**CHEMTECH CONSULTING GROUP**

**284 Sheffield St,**

**Mountainside, NJ - 07092**

**Phone No: 908-789-8900**

**ORDER ID : P4495**

**ATTENTION : QA Officer**

**Laboratory Certification ID # 20012**

Table Of Contents for P4495

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# Cover Page

**Order ID :** P4495

**Project ID :** NJ Soil PT

**Client :** Chemtech Consulting Group

| Lab Sample Number | Client Sample Number |
|---|---|
| P4495-01 | PT-AN-SOIL |
| P4495-02 | PT-CORR-SOIL |
| P4495-03 | PT-CN-SOIL |
| P4495-04 | PT-CN-SOIL |
| P4495-05 | PT-FP-SOIL |
| P4495-06 | PT-CR6-SOIL |
| P4495-07 | PT-NUT-SOIL |
| P4495-08 | PT-NUT-SOIL |
| P4495-09 | PT-OGR-SOIL |
| P4495-10 | PT-MET-SOIL |
| P4495-11 | PT-BNA-SOIL |
| P4495-12 | PT-TRIAZINE-SOIL |
| P4495-13 | PT-PAH-SOIL |
| P4495-14 | PT-DIES-SOIL |
| P4495-15 | PT-GAS-SOIL |
| P4495-16 | PT-NJEPH-SOIL |
| P4495-17 | PT-HERB-SOIL |
| P4495-18 | PT-PCB-SOIL |
| P4495-19 | PT-PCBO-SOIL |
| P4495-20 | PT-PEST-SOIL |
| P4495-21 | PT-CHLR-SOIL |
| P4495-22 | PT-TXP-SOIL |
| P4495-23 | PT-VOA-SOIL |
| P4495-24 | PT-SOL-SOIL |
| P4495-25 | PT-NO2-SOIL |

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

Signature : _____ APPROVED *By Nimisha Pandya, QA/QC Supervisor at 10:07 am, Dec 18, 2024* Date : 12/2/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Chemtech Consulting Group**
**Project Name: NJ Soil PT**
**Project # N/A**
**Chemtech Project # P4495**
**Test Name: PESTICIDE Group3**

**A. Number of Samples and Date of Receipt:**
25 Solid samples were received on 10/23/2024.

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

**C. Analytical Techniques:**
The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of PESTICIDE Group3s was based on method 8081B and extraction was done based on method 3541.

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

Sample PT-TXP-SOIL 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_____ **APPROVED**
*By Nimisha Pandya, QA/QC Supervisor at 10:07 am, Dec 18, 2024*

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:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(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: P4495 MATRIX: Solid

METHOD: 8081B/3541

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

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## GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

Sample PT-TXP-SOIL was diluted due to high concentration.

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 9:23 am, Dec 18, 2024

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** P4495

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of 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:** 12/02/2024

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# LAB CHRONICLE

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

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4495-14** | **PT-DIES-SOIL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | Diesel Range Organics | 8015D | | 10/24/24 | 10/24/24 | |
| | | | Diesel Range Organics | 8015D | | 10/24/24 | 10/25/24 | |
| **P4495-15** | **PT-GAS-SOIL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | Gasoline Range Organics | 8015D | | | 10/24/24 | |
| | | | Gasoline Range Organics | 8015D | | | 10/30/24 | |
| **P4495-16** | **PT-NJEPH-SOIL** | **Solid** | | | **10/21/24** | | | **10/23/24** |
| | | | EPH | NJEPH | | 10/25/24 | 10/28/24 | |
| | | | EPH | NJEPH | | 10/25/24 | 10/29/24 | |
| | | | EPH | NJEPH | | 10/25/24 | 10/28/24 | |
| **P4495-16DL2** | **PT-NJEPH-SOILDL2** | **Solid** | | | **10/21/24** | | | **10/23/24** |
| | | | EPH | NJEPH | | 10/25/24 | 10/28/24 | |
| **P4495-17** | **PT-HERB-SOIL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | Herbicide Group1 | 8151A | | 11/14/24 | 11/25/24 | |
| **P4495-17RE** | **PT-HERB-SOILRE** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | Herbicide Group1 | 8151A | | 11/14/24 | 11/25/24 | |
| **P4495-18** | **PT-PCB-SOIL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PCB | 8082A | | 10/25/24 | 10/25/24 | |
| **P4495-18DL** | **PT-PCB-SOIL DL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PCB | 8082A | | 10/25/24 | 10/25/24 | |
| **P4495-19** | **PT-PCBO-SOIL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PCB | 8082A | | 10/25/24 | 10/28/24 | |
| **P4495-19DL** | **PT-PCBO-SOILDL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |

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## LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | PCB | 8082A | | 10/25/24 | 10/28/24 | |
| **P4495-20** | **PT-PEST-SOIL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PESTICIDE Group1 | 8081B | | 10/25/24 | 11/04/24 | |
| **P4495-20DL** | **PT-PEST-SOILDL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PESTICIDE Group1 | 8081B | | 10/25/24 | 11/04/24 | |
| **P4495-20DL2** | **PT-PEST-SOILDL2** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PESTICIDE Group1 | 8081B | | 10/25/24 | 11/04/24 | |
| **P4495-21** | **PT-CHLR-SOIL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PESTICIDE Group2 | 8081B | | 10/25/24 | 10/31/24 | |
| **P4495-22** | **PT-TXP-SOIL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PESTICIDE Group3 | 8081B | | 10/25/24 | 10/31/24 | |
| **P4495-22DL** | **PT-TXP-SOILDL** | **SOIL** | | | **10/21/24** | | | **10/23/24** |
| | | | PESTICIDE Group3 | 8081B | | 10/25/24 | 10/31/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4495 **Order ID:** P4495

**Client:** Chemtech Consulting Group **Project ID:** NJ Soil PT

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : PT-TXP-SOIL** | | | | | | | | |
| P4495-22 | PT-TXP-SOIL | SOIL | Toxaphene | 434 | E | 5.20 | 32.9 | ug/kg |
| | | | **Total Concentration:** | **434.000** | | | | |
| **Client ID : PT-TXP-SOILDL** | | | | | | | | |
| P4495-22DL | PT-TXP-SOILDL | SOIL | Toxaphene | 414 | D | 10.4 | 65.9 | ug/kg |
| | | | **Total Concentration:** | **414.000** | | | | |

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** P4495

**Client:** Chemtech Consulting Group

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL092652.D | PIBLK-PL092652.D | Decachlorobiphenyl | 1 | 20 | 22.7 | 114 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.6 | 108 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.7 | 109 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.4 | 102 | | 77 | 126 |
| I.BLK-PL092752.D | PIBLK-PL092752.D | Decachlorobiphenyl | 1 | 20 | 20.0 | 100 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.0 | 100 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 19.3 | 96 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.9 | 95 | | 77 | 126 |
| PB164400BL | PB164400BL | Decachlorobiphenyl | 1 | 20 | 21.6 | 108 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.9 | 100 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 21.6 | 108 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.9 | 94 | | 10 | 159 |
| PB164400BS | PB164400BS | Decachlorobiphenyl | 1 | 20 | 21.2 | 106 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.5 | 103 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 21.1 | 106 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.5 | 98 | | 10 | 159 |
| P4495-22 | PT-TXP-SOIL | Decachlorobiphenyl | 1 | 20 | 22.7 | 113 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 23.3 | 116 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 22.4 | 112 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.2 | 106 | | 10 | 159 |
| P4495-22DL | PT-TXP-SOILDL | Decachlorobiphenyl | 1 | 20 | 23.1 | 116 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 23.8 | 119 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 22.7 | 113 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.5 | 102 | | 10 | 159 |
| I.BLK-PL092767.D | PIBLK-PL092767.D | Decachlorobiphenyl | 1 | 20 | 20.9 | 105 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.6 | 98 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 20.9 | 104 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.9 | 94 | | 77 | 126 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4495

**Client:** Chemtech Consulting Group

**Analytical Method:** 8081B **Datafile :** PL092764.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164400BS | Toxaphene | 66.62 | 74.4 | ug/kg | 112 | | | | 80 | 120 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164400BL

Lab Name: CHEMTECH Contract: CHEM02

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

Lab Sample ID: PB164400BL Lab File ID: PL092763.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 10/25/2024

Date Analyzed (1): 10/31/2024 Date Analyzed (2): 10/31/2024

Time Analyzed (1): 15:11 Time Analyzed (2): 15:11

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 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 |
|---|---|---|---|---|
| PB164400BS | PB164400BS | PL092764.D | 10/31/2024 | 10/31/2024 |
| PT-TXP-SOIL | P4495-22 | PL092765.D | 10/31/2024 | 10/31/2024 |

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: | 10/21/24 |
| Project: | NJ Soil PT | Date Received: | 10/23/24 |
| Client Sample ID: | PT-TXP-SOIL | SDG No.: | P4495 |
| Lab Sample ID: | P4495-22 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PESTICIDE Group3 |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092765.D | 1 | 10/25/24 09:11 | 10/31/24 16:36 | PB164400 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 8001-35-2 | Toxaphene | 434 | E | 5.20 | 32.9 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.7 | | 10 - 148 | 113% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.3 | | 10 - 159 | 116% | SPK: 20 |

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_L\Data\PL103124\
Data File : PL092765.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 16:36
Operator : AR\AJ
Sample : P4495-22
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOIL

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:18:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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** | | | | | | |
| 1) | SA Tetrachlo... | 3.542 | 2.779 | 55790171 | 56878442 | 23.264m | 21.168 |
| 7) | SA Decachlor... | 9.060 | 7.919 | 43006433 | 61647064 | 22.681 | 22.383 |
| | **Target Compounds** | | | | | | |
| 2) | Toxaphene-1 | 6.246 | 5.010 | 29920386 | 37038635 | 1354.851m | 1947.761 # |
| 3) | Toxaphene-2 | 6.447 | 5.332 | 17669279 | 32862563 | 1303.064 | 1670.139 # |
| 4) | Toxaphene-3 | 7.062 | 6.598 | 105.1E6 | 76979846 | 1352.412 | 1131.406 |
| 5) | Toxaphene-4 | 7.150 | 6.734 | 67200120 | 115.7E6 | 1131.335 | 1256.101 |
| 6) | Toxaphene-5 | 7.939 | 7.049 | 19571571 | 34259542 | 436.043 | 522.510 |

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

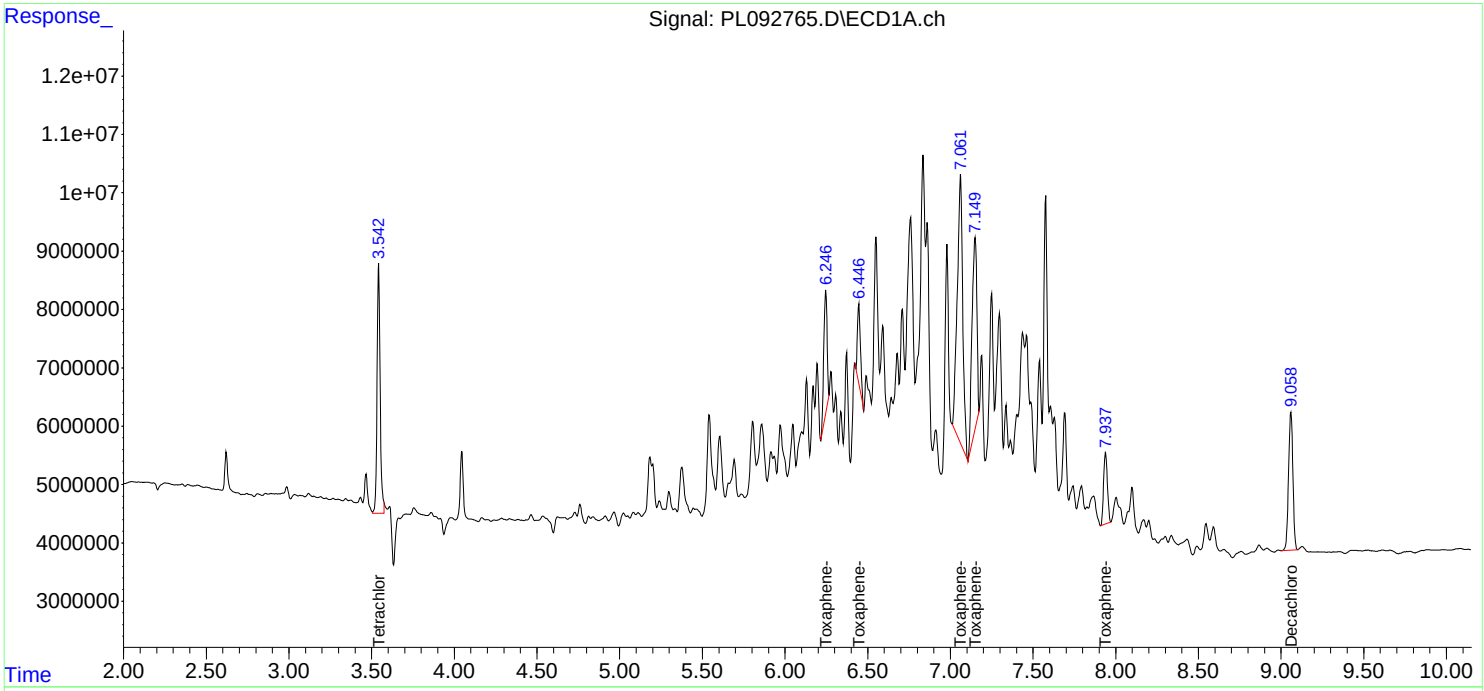
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092765.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 16:36
Operator : AR\AJ
Sample : P4495-22
Misc :
ALS Vial : 15 Sample Multiplier: 1

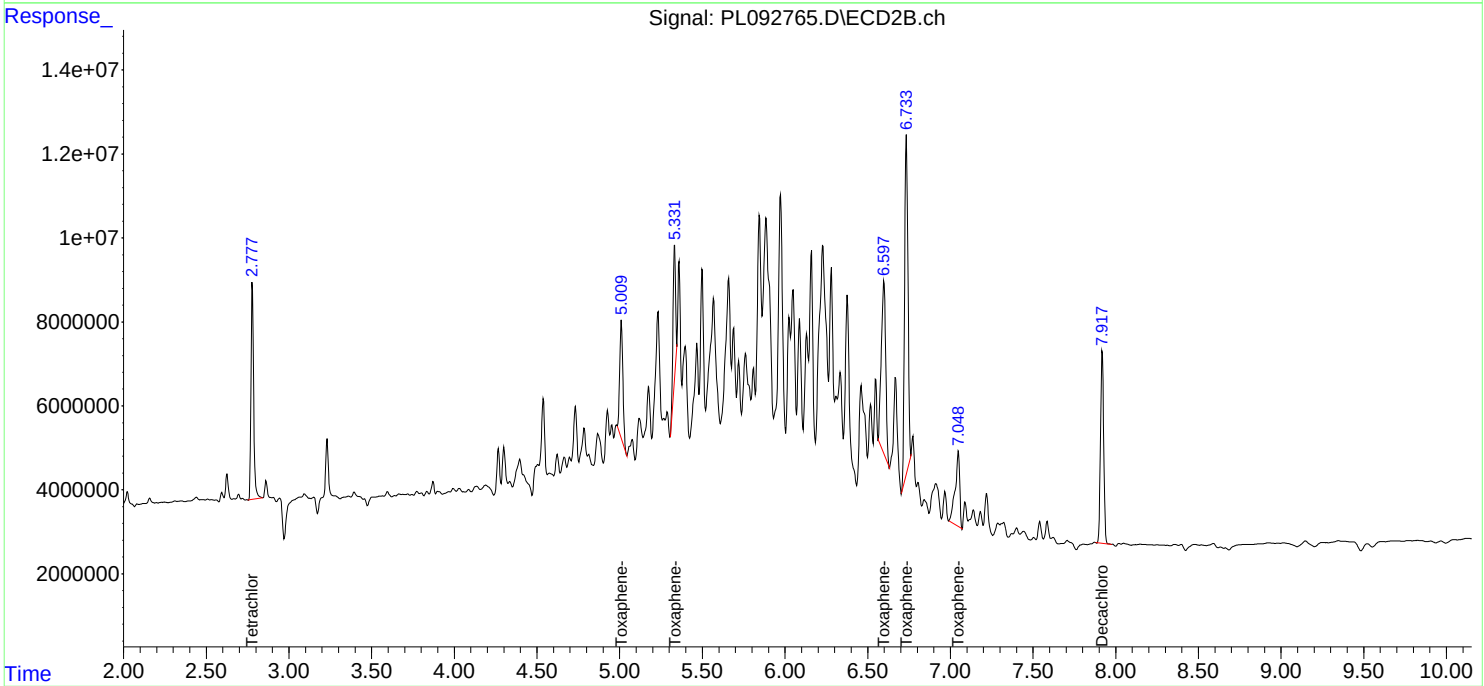
**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOIL

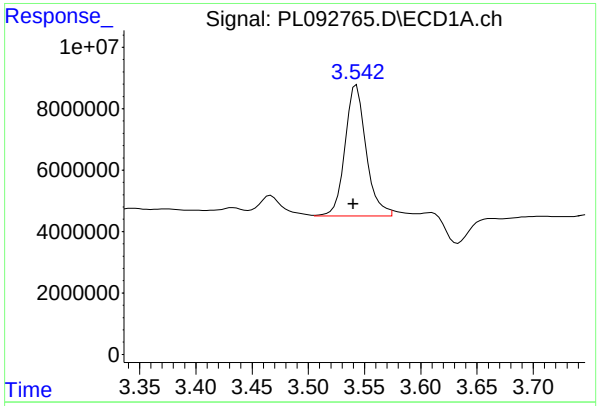
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:18:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm





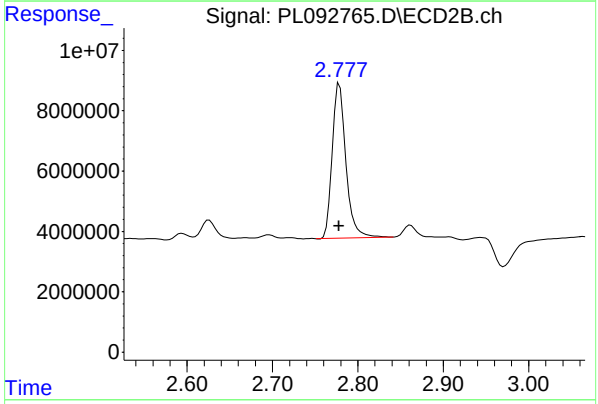

#1 Tetrachloro-m-xylene

R.T.: 3.542 min
Delta R.T.: 0.002 min
Response: 55790171
Conc: 23.26 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOIL

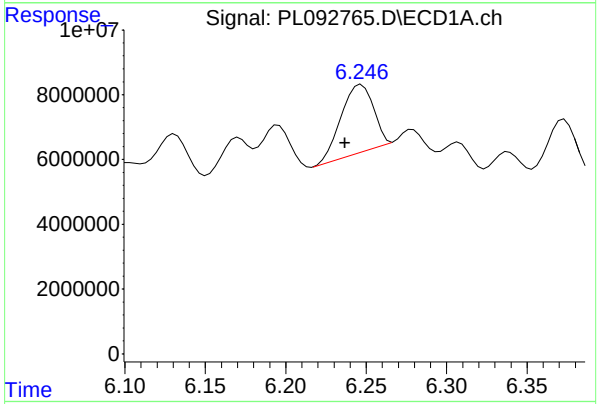
**Manual Integrations**
**APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



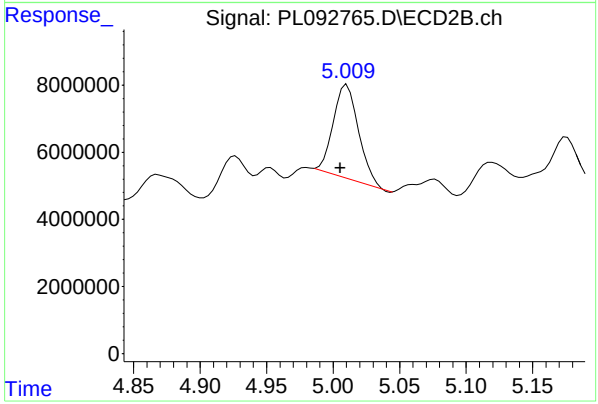

#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.000 min
Response: 56878442
Conc: 21.17 ng/ml



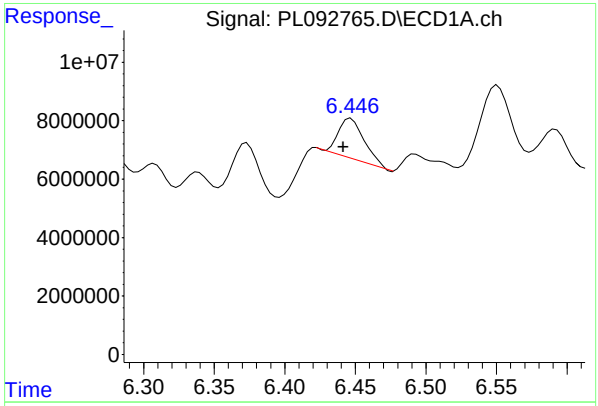

#2 Toxaphene-1

R.T.: 6.246 min
Delta R.T.: 0.009 min
Response: 29920386
Conc: 1354.85 ng/ml m




#2 Toxaphene-1

R.T.: 5.010 min
Delta R.T.: 0.005 min
Response: 37038635
Conc: 1947.76 ng/ml



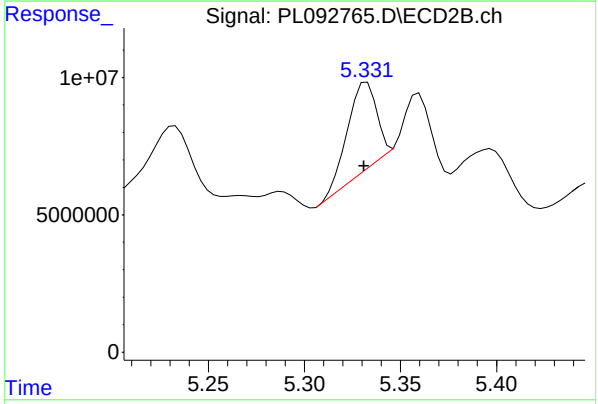

#3 Toxaphene-2

R.T.: 6.447 min
Delta R.T.: 0.005 mi
Response: 17669279
Conc: 1303.06 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOIL

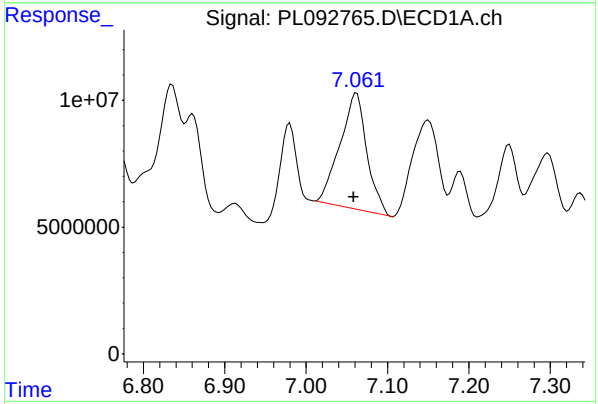
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



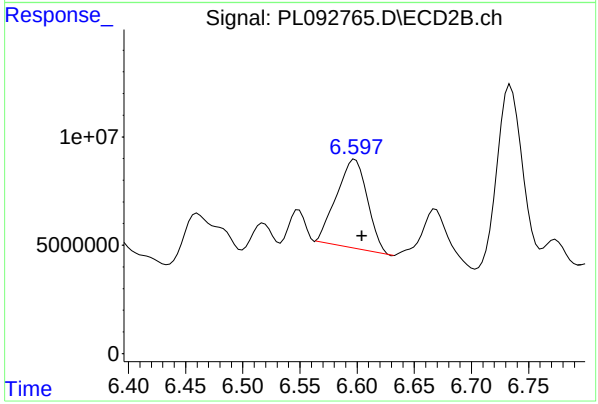

#3 Toxaphene-2

R.T.: 5.332 min
Delta R.T.: 0.001 min
Response: 32862563
Conc: 1670.14 ng/ml



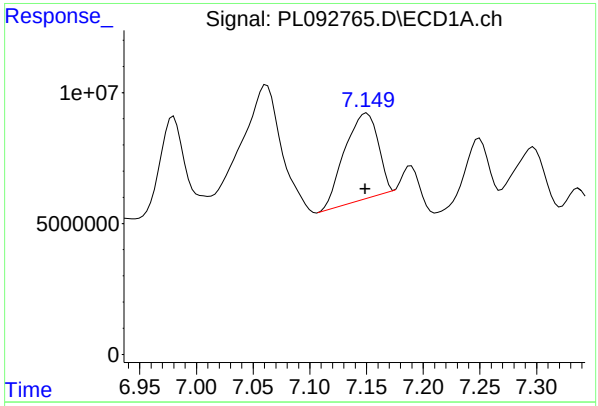

#4 Toxaphene-3

R.T.: 7.062 min
Delta R.T.: 0.004 min
Response: 105075625
Conc: 1352.41 ng/ml




#4 Toxaphene-3

R.T.: 6.598 min
Delta R.T.: -0.006 min
Response: 76979846
Conc: 1131.41 ng/ml



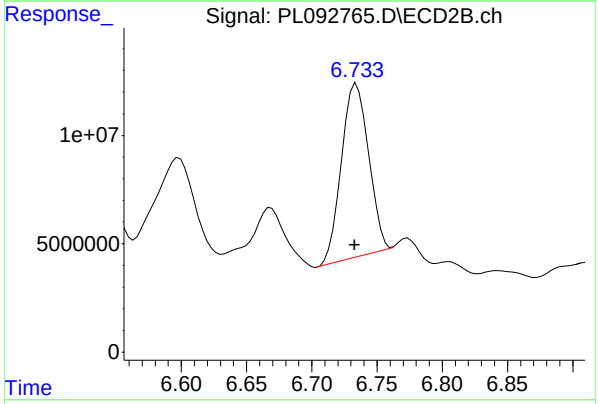

#5 Toxaphene-4

R.T.: 7.150 min
Delta R.T.: 0.001 min
Response: 67200120
Conc: 1131.34 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOIL

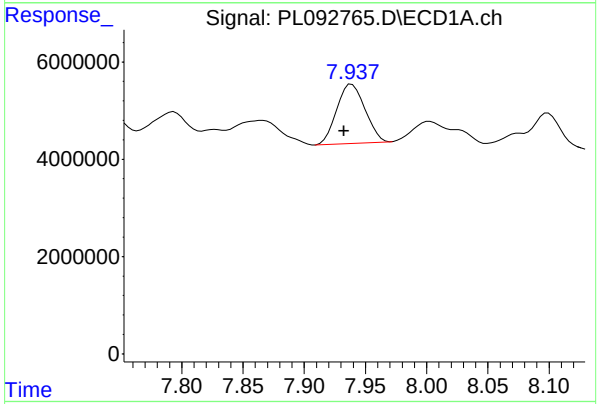
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



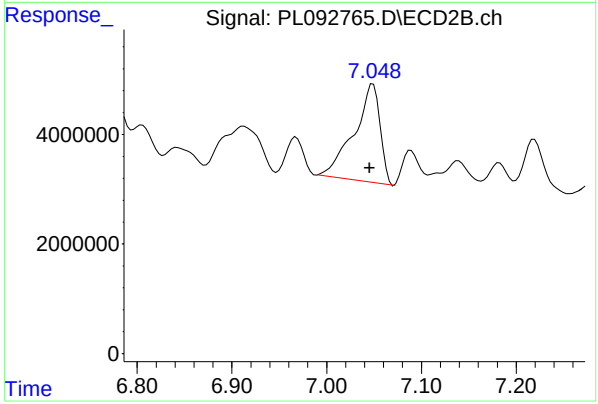

#5 Toxaphene-4

R.T.: 6.734 min
Delta R.T.: 0.001 min
Response: 115731566
Conc: 1256.10 ng/ml



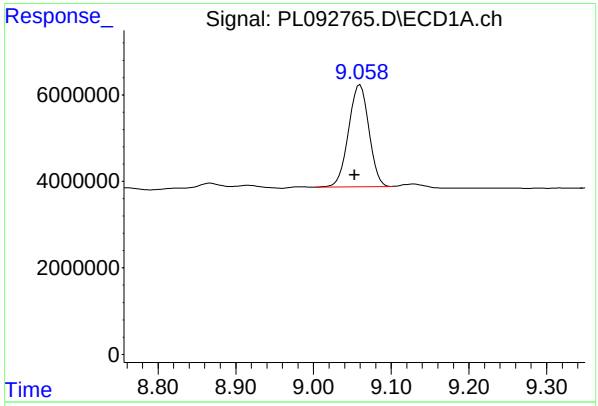

#6 Toxaphene-5

R.T.: 7.939 min
Delta R.T.: 0.006 min
Response: 19571571
Conc: 436.04 ng/ml




#6 Toxaphene-5

R.T.: 7.049 min
Delta R.T.: 0.004 min
Response: 34259542
Conc: 522.51 ng/ml



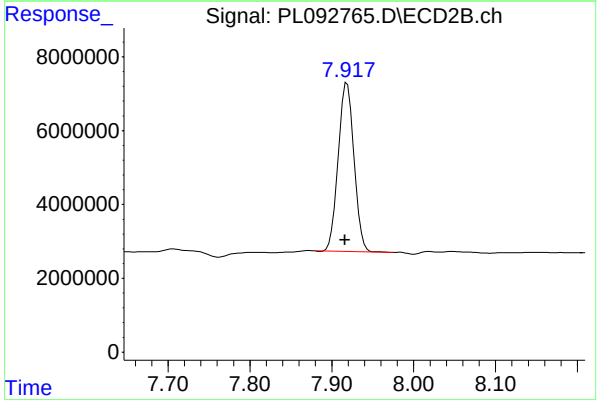

#7 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.007 min
Response: 43006433
Conc: 22.68 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOIL

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024




#7 Decachlorobiphenyl

R.T.: 7.919 min
Delta R.T.: 0.003 min
Response: 61647064
Conc: 22.38 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: | 10/21/24 |
| Project: | NJ Soil PT | Date Received: | 10/23/24 |
| Client Sample ID: | PT-TXP-SOILDL | SDG No.: | P4495 |
| Lab Sample ID: | P4495-22DL | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PESTICIDE Group3 |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092766.D | 2 | 10/25/24 09:11 | 10/31/24 17:52 | PB164400 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 8001-35-2 | Toxaphene | 414 | D | 10.4 | 65.9 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 23.1 | | 10 - 148 | 116% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 23.8 | | 10 - 159 | 119% | SPK: 20 |

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_L\Data\PL103124\
Data File : PL092766.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 17:52
Operator : AR\AJ
Sample : P4495-22DL 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOILDL

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:19:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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 | | | | | | |
| 1) SA | Tetrachlo... | 3.544 | 2.779 | 28557735 | 27492497 | 11.909m | 10.232 |
| 7) SA | Decachlor... | 9.063 | 7.919 | 21920430 | 31204035 | 11.560 | 11.329 |
| | Target Compounds | | | | | | |
| 2) | Toxaphene-1 | 6.247 | 5.009 | 16351662 | 17533664 | 740.434m | 922.048m |
| 3) | Toxaphene-2 | 6.449 | 5.333 | 10362514 | 15677303 | 764.209 | 796.751 |
| 4) | Toxaphene-3 | 7.065 | 6.599 | 55014334 | 35690508 | 708.081 | 524.559 # |
| 5) | Toxaphene-4 | 7.153 | 6.735 | 35313782 | 55422336 | 594.519 | 601.530 |
| 6) | Toxaphene-5 | 7.941 | 7.049 | 10024331 | 17189696 | 223.336 | 262.169 |

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

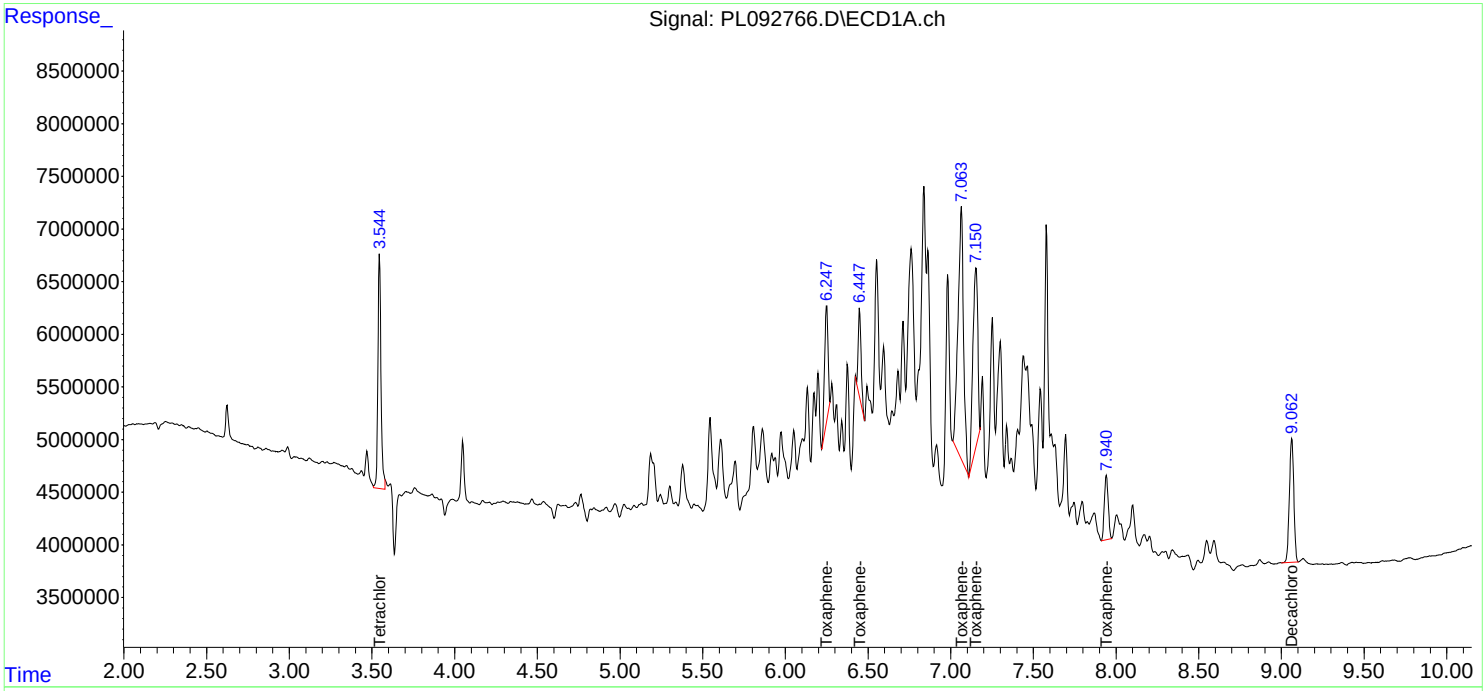
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092766.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 17:52
Operator : AR\AJ
Sample : P4495-22DL 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

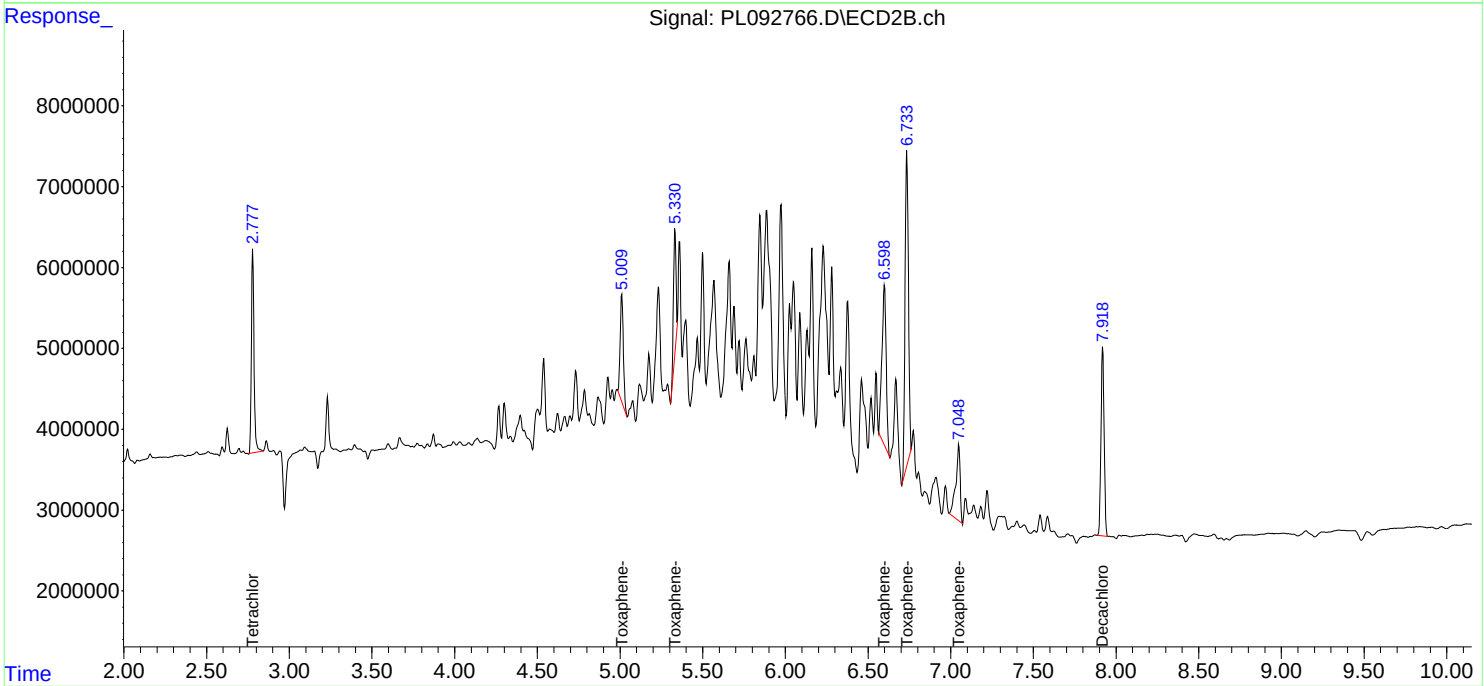
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:19:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

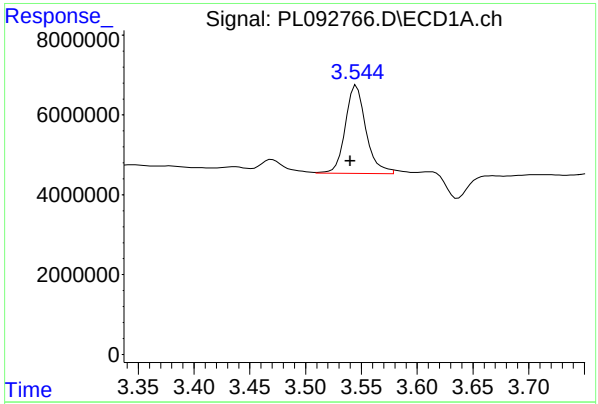
Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOILDL

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024





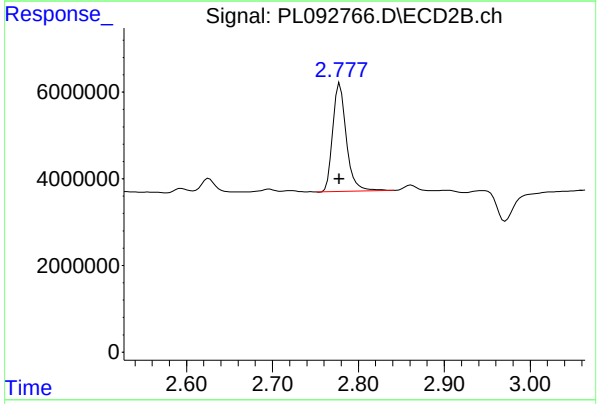

#1 Tetrachloro-m-xylene

R.T.: 3.544 min
Delta R.T.: 0.004 mi
Response: 28557735
Conc: 11.91 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOILDL

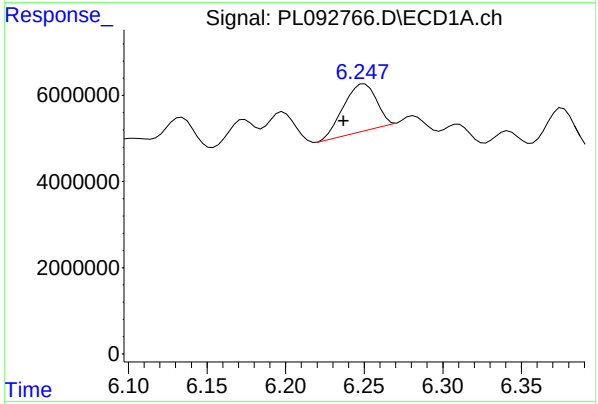
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



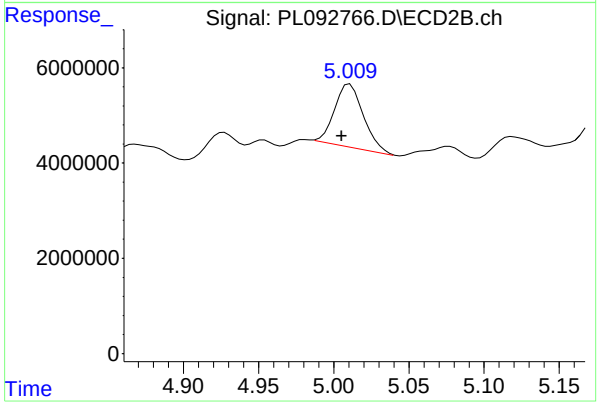

#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.000 min
Response: 27492497
Conc: 10.23 ng/ml



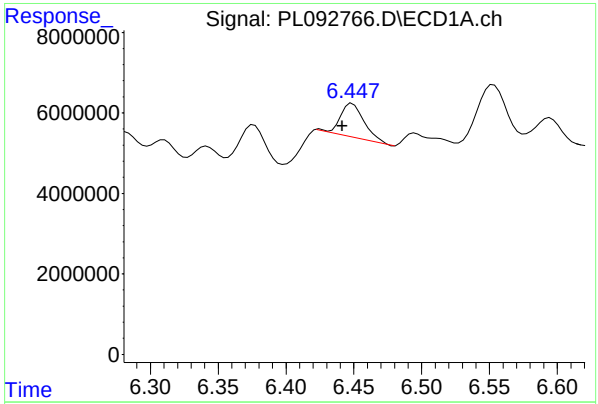

#2 Toxaphene-1

R.T.: 6.247 min
Delta R.T.: 0.010 min
Response: 16351662
Conc: 740.43 ng/ml m




#2 Toxaphene-1

R.T.: 5.009 min
Delta R.T.: 0.004 min
Response: 17533664
Conc: 922.05 ng/ml m



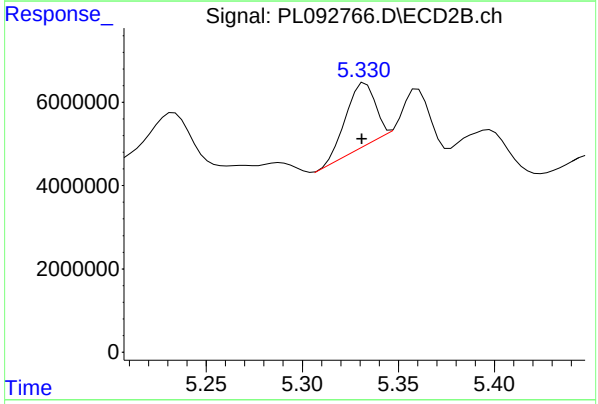

#3 Toxaphene-2

R.T.: 6.449 min
Delta R.T.: 0.007 min
Response: 10362514
Conc: 764.21 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOILDL

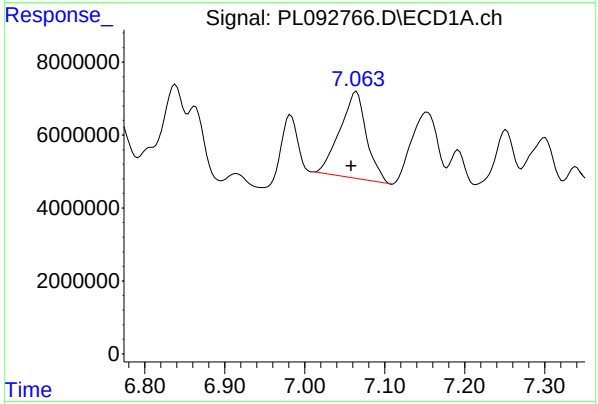
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



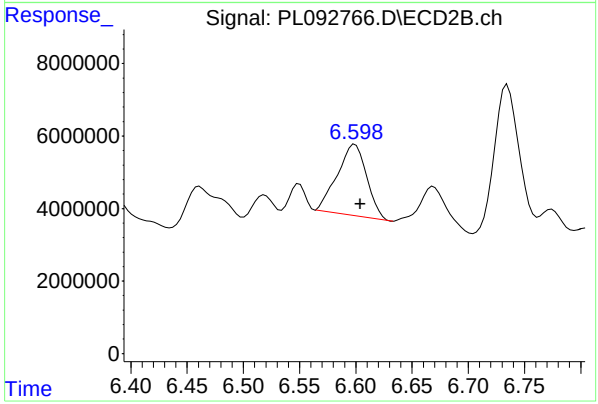

#3 Toxaphene-2

R.T.: 5.333 min
Delta R.T.: 0.002 min
Response: 15677303
Conc: 796.75 ng/ml



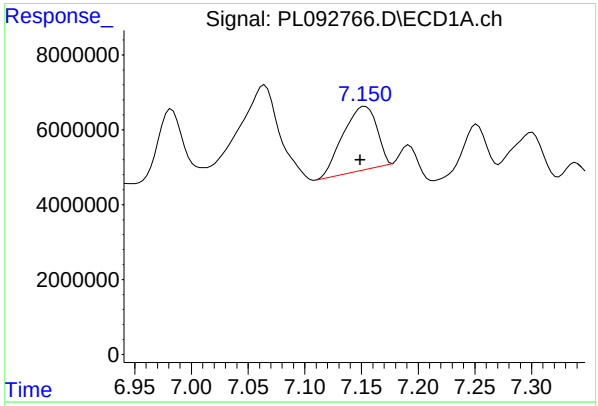

#4 Toxaphene-3

R.T.: 7.065 min
Delta R.T.: 0.007 min
Response: 55014334
Conc: 708.08 ng/ml




#4 Toxaphene-3

R.T.: 6.599 min
Delta R.T.: -0.005 min
Response: 35690508
Conc: 524.56 ng/ml



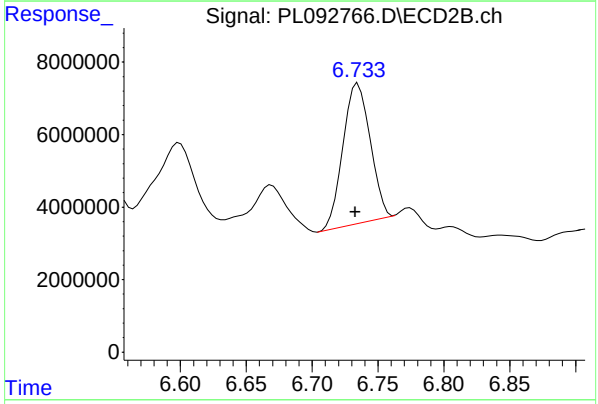

#5 Toxaphene-4

R.T.: 7.153 min
Delta R.T.: 0.004 min
Response: 35313782
Conc: 594.52 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOILDL

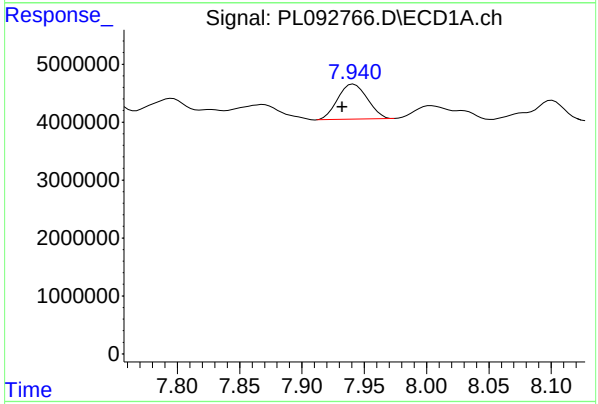
**Manual Integrations**
**APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



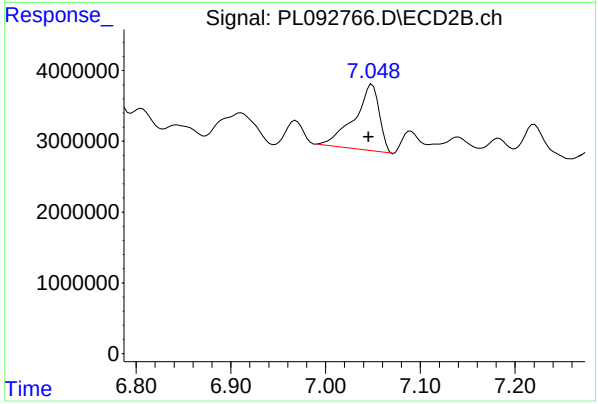

#5 Toxaphene-4

R.T.: 6.735 min
Delta R.T.: 0.002 min
Response: 55422336
Conc: 601.53 ng/ml



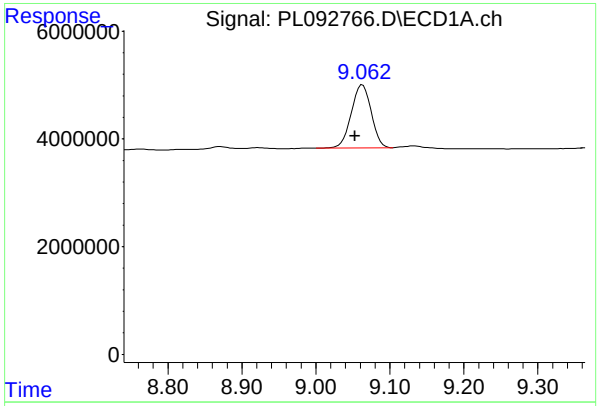

#6 Toxaphene-5

R.T.: 7.941 min
Delta R.T.: 0.009 min
Response: 10024331
Conc: 223.34 ng/ml




#6 Toxaphene-5

R.T.: 7.049 min
Delta R.T.: 0.004 min
Response: 17189696
Conc: 262.17 ng/ml



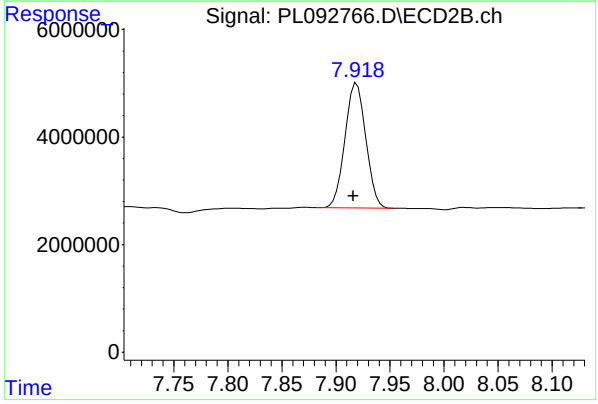

#7 Decachlorobiphenyl

R.T.: 9.063 min
Delta R.T.: 0.010 min
Response: 21920430
Conc: 11.56 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PT-TXP-SOILDL

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024




#7 Decachlorobiphenyl

R.T.: 7.919 min
Delta R.T.: 0.003 min
Response: 31204035
Conc: 11.33 ng/ml

# CALIBRATION SUMMARY

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.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 16:56 17:50

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

**LAB FILE ID:** RT 1000 = PL092665.D RT 750 = PL092666.D

RT 500 = PL092667.D RT 250 = PL092668.D RT 100 = PL092669.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 100 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 8.95 | 9.15 |
| Tetrachloro-m-xylene | | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.44 | 3.64 |
| Toxaphene-1 | (1) | 6.24 | 6.24 | 6.24 | 6.24 | 6.24 | 6.24 | 6.14 | 6.34 |
| Toxaphene-2 | (2) | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.34 | 6.54 |
| Toxaphene-3 | (3) | 7.06 | 7.06 | 7.06 | 7.06 | 7.06 | 7.06 | 6.96 | 7.16 |
| Toxaphene-4 | (4) | 7.15 | 7.15 | 7.15 | 7.15 | 7.15 | 7.15 | 7.05 | 7.25 |
| Toxaphene-5 | (5) | 7.93 | 7.93 | 7.93 | 7.93 | 7.93 | 7.93 | 7.83 | 8.03 |

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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.:** P4495 **SAS No.:** P4495 **SDG NO.:** P4495

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 16:56 17:50

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

**LAB FILE ID:** RT 1000 = PL092665.D RT 750 = PL092666.D

RT 500 = PL092667.D RT 250 = PL092668.D RT 100 = PL092669.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 100 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.82 | 8.02 |
| Tetrachloro-m-xylene | | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.68 | 2.88 |
| Toxaphene-1 | (1) | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.91 | 5.11 |
| Toxaphene-2 | (2) | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.23 | 5.43 |
| Toxaphene-3 | (3) | 6.61 | 6.61 | 6.61 | 6.61 | 6.60 | 6.60 | 6.50 | 6.70 |
| Toxaphene-4 | (4) | 6.74 | 6.73 | 6.73 | 6.73 | 6.73 | 6.73 | 6.63 | 6.83 |
| Toxaphene-5 | (5) | 7.05 | 7.05 | 7.05 | 7.05 | 7.05 | 7.05 | 6.95 | 7.15 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** CHEM02

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

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 16:56 17:50

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

**LAB FILE ID:** **CF 1000 =** PL092665.D **CF 750 =** PL092666.D

**CF 500 =** PL092667.D **CF 250 =** PL092668.D **CF 100 =** PL092669.D

| COMPOUND | CF 1000 | CF 750 | CF 500 | CF 250 | CF 100 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 177230000 | 177740000 | 189745000 | 202854000 | 200519000 | 189618000 | 6 |
| Tetrachloro-m-xylene | 233078000 | 231096000 | 240350000 | 249936000 | 244588000 | 239810000 | 3 |
| Toxaphene-1 (1) | 21930600 | 22781000 | 23962400 | 25720000 | 16025500 | 22083900 | 17 |
| Toxaphene-2 (2) | 12813100 | 13396100 | 13823600 | 14697100 | 13069000 | 13559800 | 5 |
| Toxaphene-3 (3) | 74043300 | 76359300 | 79159800 | 82844000 | 76068600 | 77695000 | 4 |
| Toxaphene-4 (4) | 55448700 | 56201800 | 59803700 | 62032900 | 63507700 | 59398900 | 6 |
| Toxaphene-5 (5) | 42363700 | 42359900 | 45329200 | 47641800 | 46728000 | 44884500 | 5 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** CHEM02

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

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 16:56 17:50

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

**LAB FILE ID:** **CF 1000 =** PL092665.D **CF 750 =** PL092666.D

**CF 500 =** PL092667.D **CF 250 =** PL092668.D **CF 100 =** PL092669.D

| COMPOUND | CF 1000 | CF 750 | CF 500 | CF 250 | CF 100 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 268855000 | 266456000 | 278478000 | 283496000 | 279838000 | 275425000 | 3 |
| Tetrachloro-m-xylene | 273611000 | 268301000 | 274396000 | 273506000 | 253659000 | 268695000 | 3 |
| Toxaphene-1 (1) | 19319400 | 18781100 | 19952700 | 20054800 | 16972100 | 19016000 | 7 |
| Toxaphene-2 (2) | 19540600 | 19393300 | 19749600 | 20014500 | 19684700 | 19676500 | 1 |
| Toxaphene-3 (3) | 71848800 | 69180600 | 70222500 | 68167200 | 60776500 | 68039100 | 6 |
| Toxaphene-4 (4) | 93945600 | 97489100 | 98337700 | 96142100 | 74763400 | 92135600 | 11 |
| Toxaphene-5 (5) | 66528900 | 64180200 | 65479700 | 64807200 | 66840000 | 65567200 | 2 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092665.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 16:56
Operator : AR\AJ
Sample : PTOXICC1000
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:37:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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** | | | | | | |
| 1) SA | Tetrachlo... | 3.541 | 2.778 | 233.1E6 | 273.6E6 | 98.464 | 99.857 |
| 7) SA | Decachlor... | 9.054 | 7.916 | 177.2E6 | 268.9E6 | 96.590 | 98.242 |
| | **Target Compounds** | | | | | | |
| 2) | Toxaphene-1 | 6.237 | 5.007 | 21930618 | 19319401 | 955.728 | 983.873 |
| 3) | Toxaphene-2 | 6.442 | 5.331 | 12813106 | 19540592 | 962.063 | 994.680 |
| 4) | Toxaphene-3 | 7.059 | 6.605 | 74043261 | 71848768 | 966.603 | 1011.447 |
| 5) | Toxaphene-4 | 7.149 | 6.735 | 55448691 | 93945608 | 962.213 | 977.158 |
| 6) | Toxaphene-5 | 7.934 | 7.046 | 42363674 | 66528877 | 966.183 | 1007.948 |

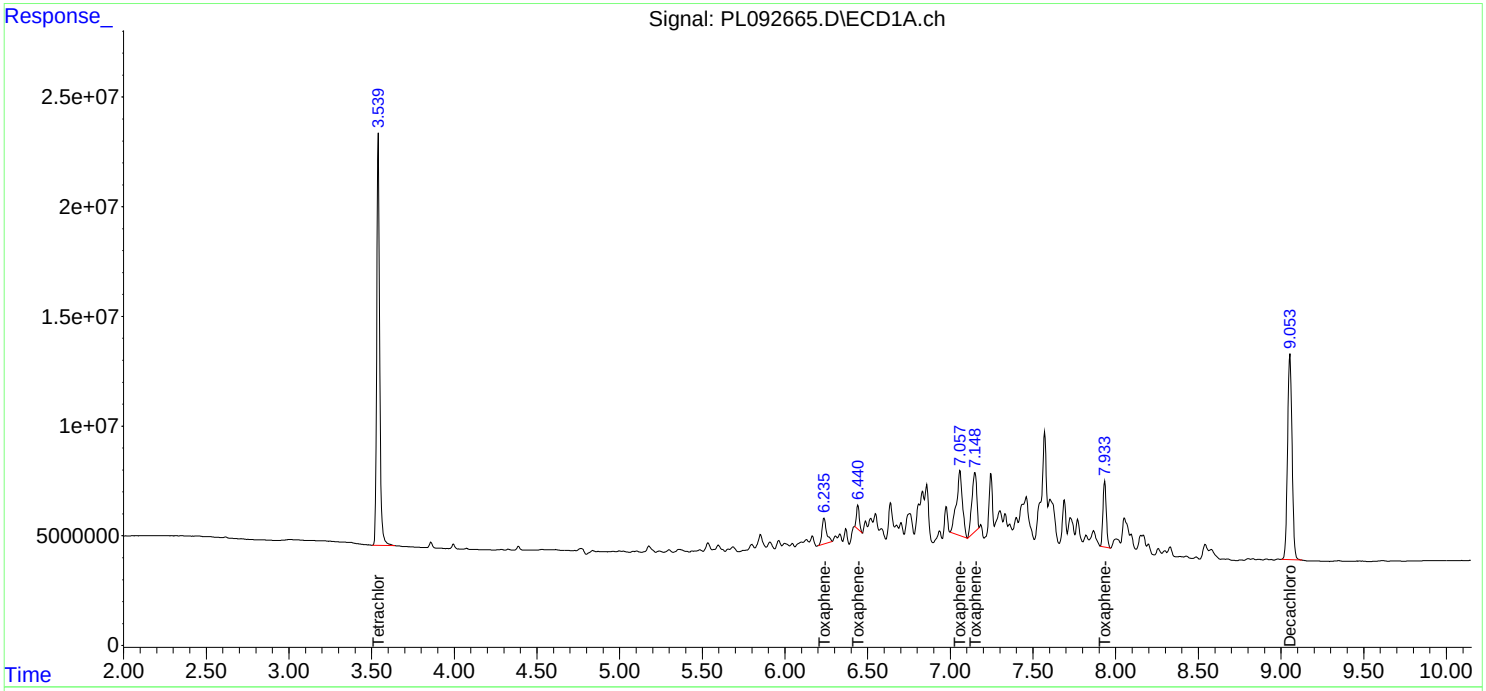
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

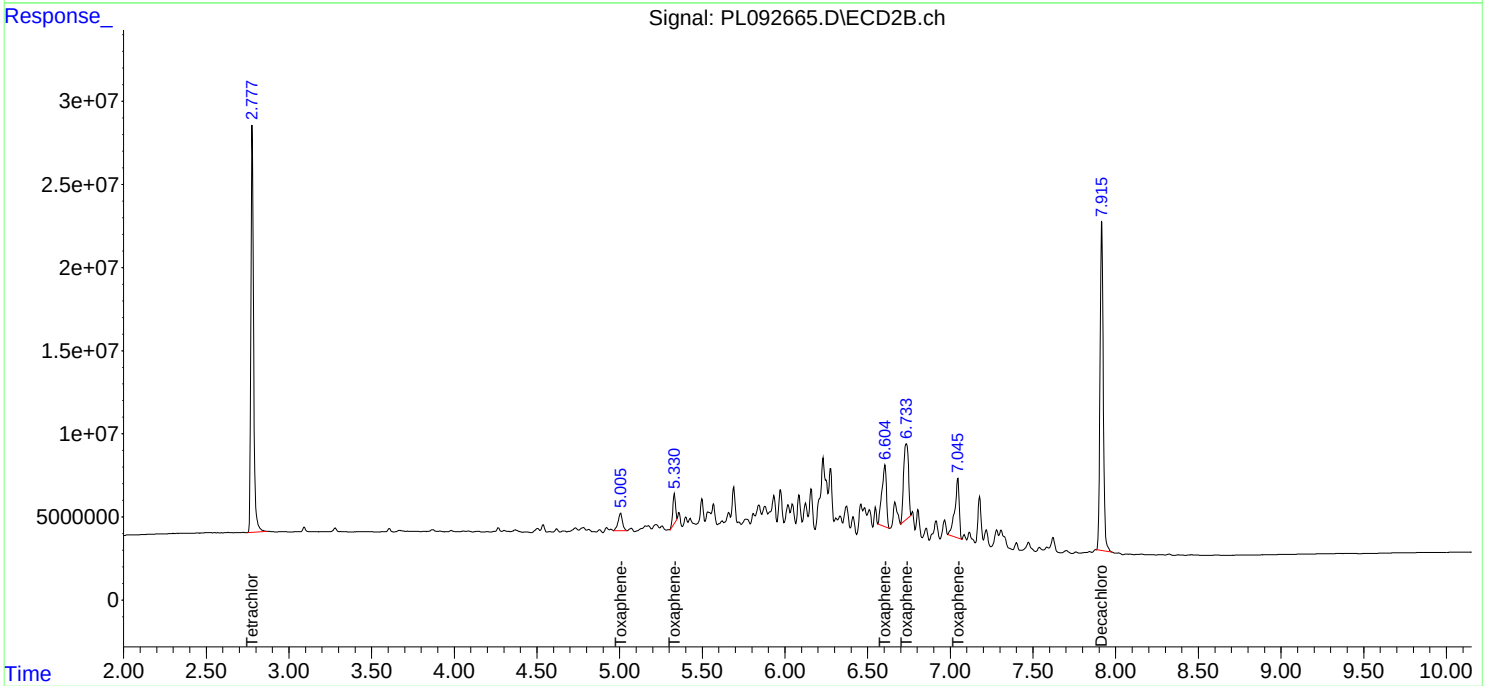
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092665.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 16:56
Operator : AR\AJ
Sample : PTOXICC1000
Misc :
ALS Vial : 15 Sample Multiplier: 1

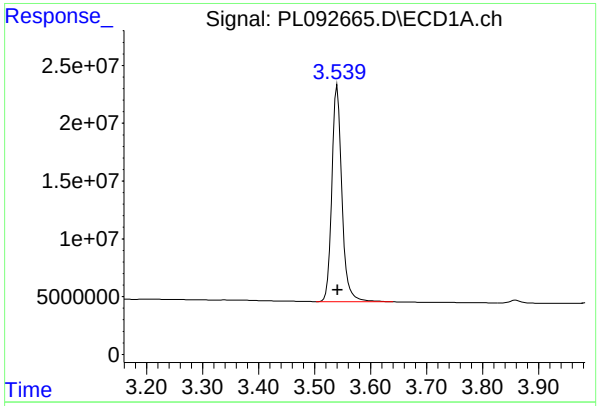
**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:37:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



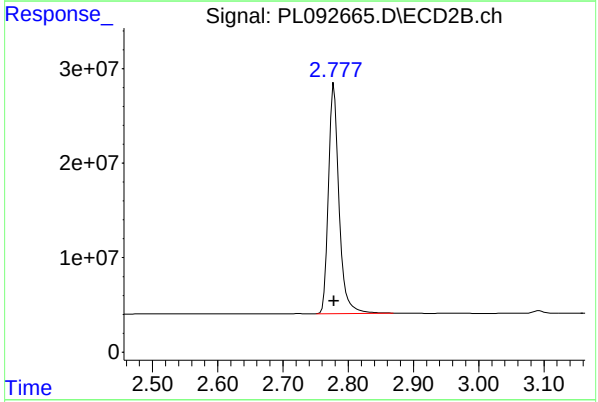






#1 Tetrachloro-m-xylene

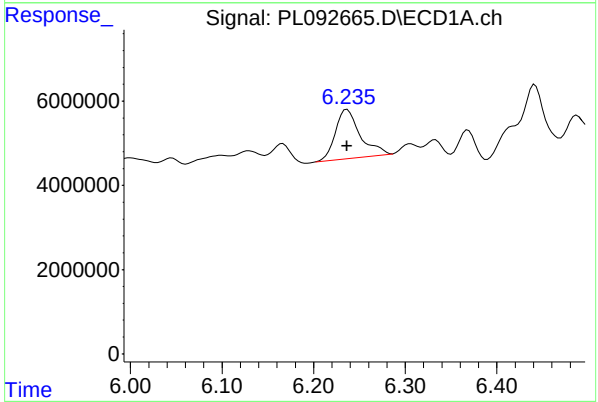
R.T.: 3.541 min
Delta R.T.: 0.000 min
Response: 233077729
Conc: 98.46 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC1000



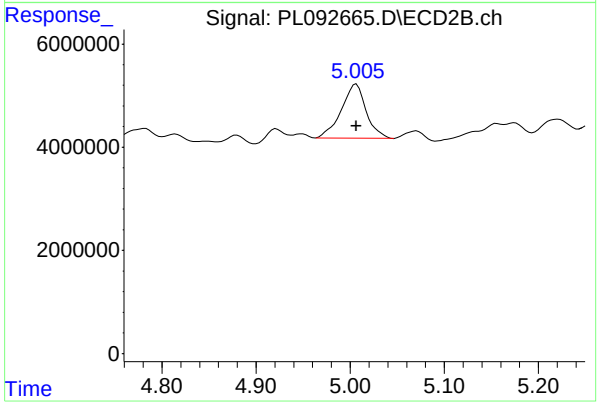

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 273611245
Conc: 99.86 ng/ml



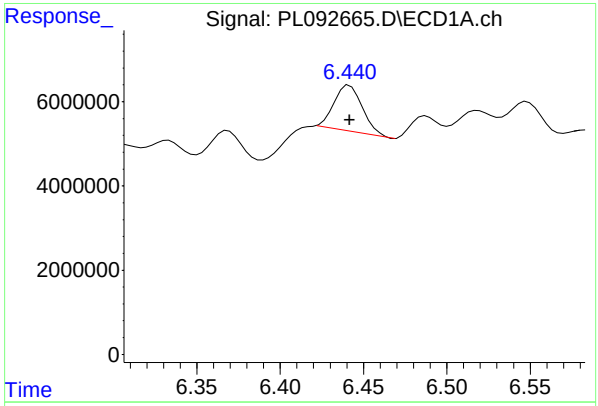

#2 Toxaphene-1

R.T.: 6.237 min
Delta R.T.: 0.000 min
Response: 21930618
Conc: 955.73 ng/ml




#2 Toxaphene-1

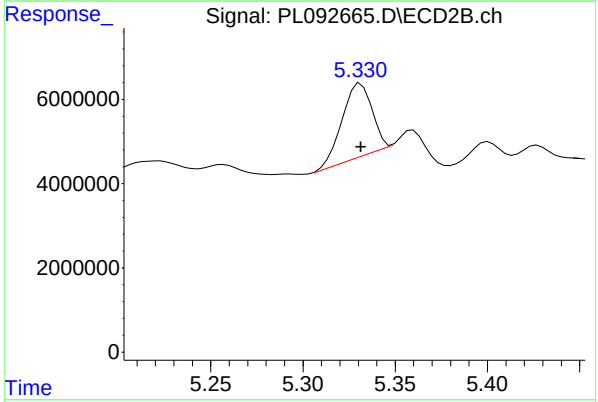
R.T.: 5.007 min
Delta R.T.: 0.000 min
Response: 19319401
Conc: 983.87 ng/ml




#3 Toxaphene-2

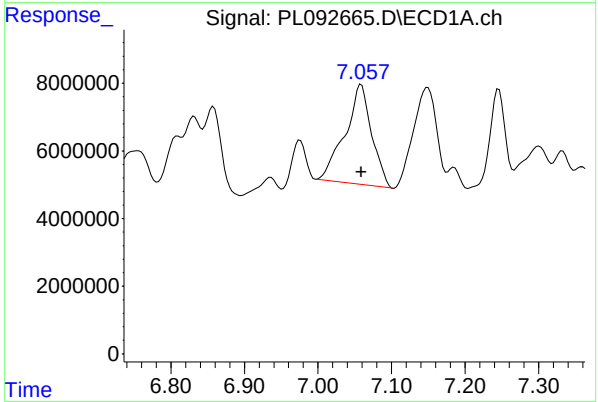
R.T.: 6.442 min
Delta R.T.: 0.000 min
Response: 12813106
Conc: 962.06 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC1000



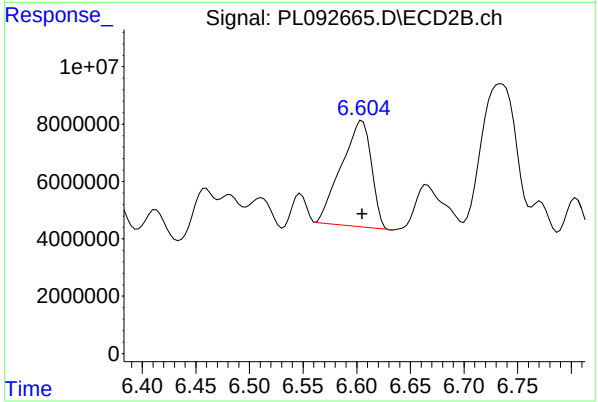

#3 Toxaphene-2

R.T.: 5.331 min
Delta R.T.: 0.000 min
Response: 19540592
Conc: 994.68 ng/ml



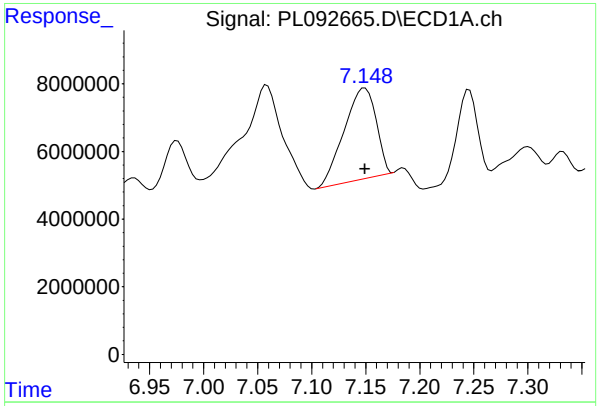

#4 Toxaphene-3

R.T.: 7.059 min
Delta R.T.: 0.000 min
Response: 74043261
Conc: 966.60 ng/ml




#4 Toxaphene-3

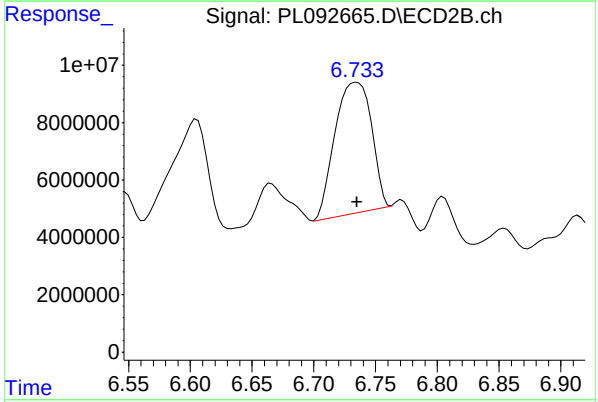
R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 71848768
Conc: 1011.45 ng/ml




#5 Toxaphene-4

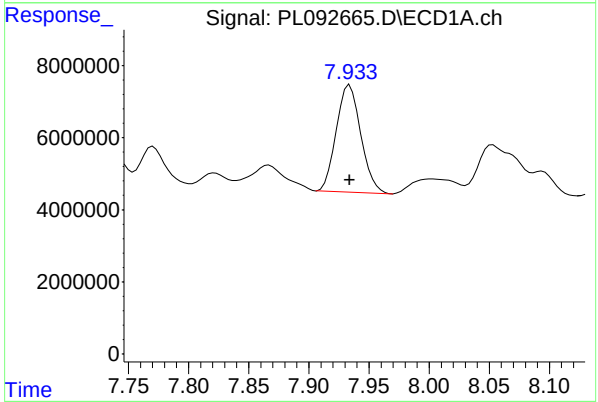
R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 55448691
Conc: 962.21 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC1000



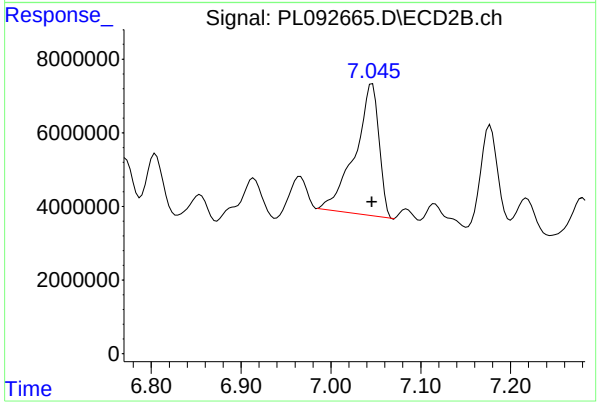

#5 Toxaphene-4

R.T.: 6.735 min
Delta R.T.: 0.000 min
Response: 93945608
Conc: 977.16 ng/ml



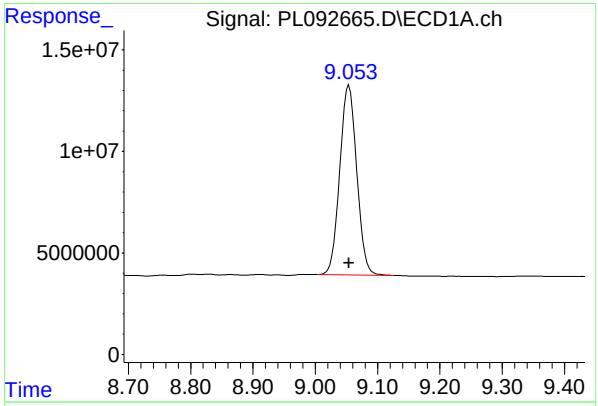

#6 Toxaphene-5

R.T.: 7.934 min
Delta R.T.: 0.000 min
Response: 42363674
Conc: 966.18 ng/ml




#6 Toxaphene-5

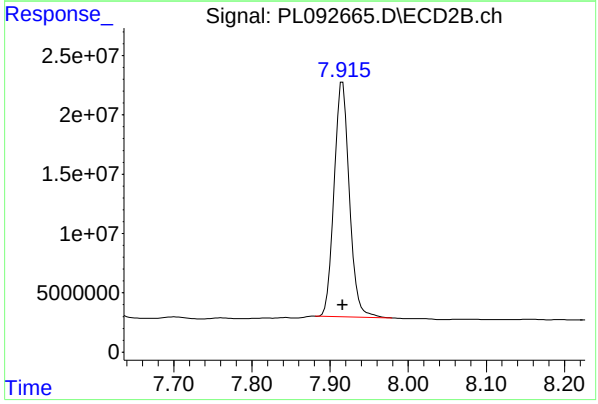
R.T.: 7.046 min
Delta R.T.: 0.000 min
Response: 66528877
Conc: 1007.95 ng/ml




#7 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 177230122
Conc: 96.59 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC1000




#7 Decachlorobiphenyl

R.T.: 7.916 min
Delta R.T.: 0.000 min
Response: 268855232
Conc: 98.24 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092666.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:10
Operator : AR\AJ
Sample : PTOXICC750
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:38:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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 | | | | | | |
| 1) SA | Tetrachlo... | 3.540 | 2.778 | 173.3E6 | 201.2E6 | 73.804 | 73.952 |
| 7) SA | Decachlor... | 9.054 | 7.916 | 133.3E6 | 199.8E6 | 73.417 | 73.671 |
| | Target Compounds | | | | | | |
| 2) | Toxaphene-1 | 6.238 | 5.007 | 17085750 | 14085792 | 746.385 | 727.908 |
| 3) | Toxaphene-2 | 6.441 | 5.332 | 10047093 | 14544964 | 752.914 | 743.563 |
| 4) | Toxaphene-3 | 7.059 | 6.605 | 57269471 | 51885456 | 748.417 | 736.828 |
| 5) | Toxaphene-4 | 7.150 | 6.733 | 42151328 | 73116798 | 737.538 | 756.975 |
| 6) | Toxaphene-5 | 7.934 | 7.046 | 31769944 | 48135114 | 732.855 | 736.053 |

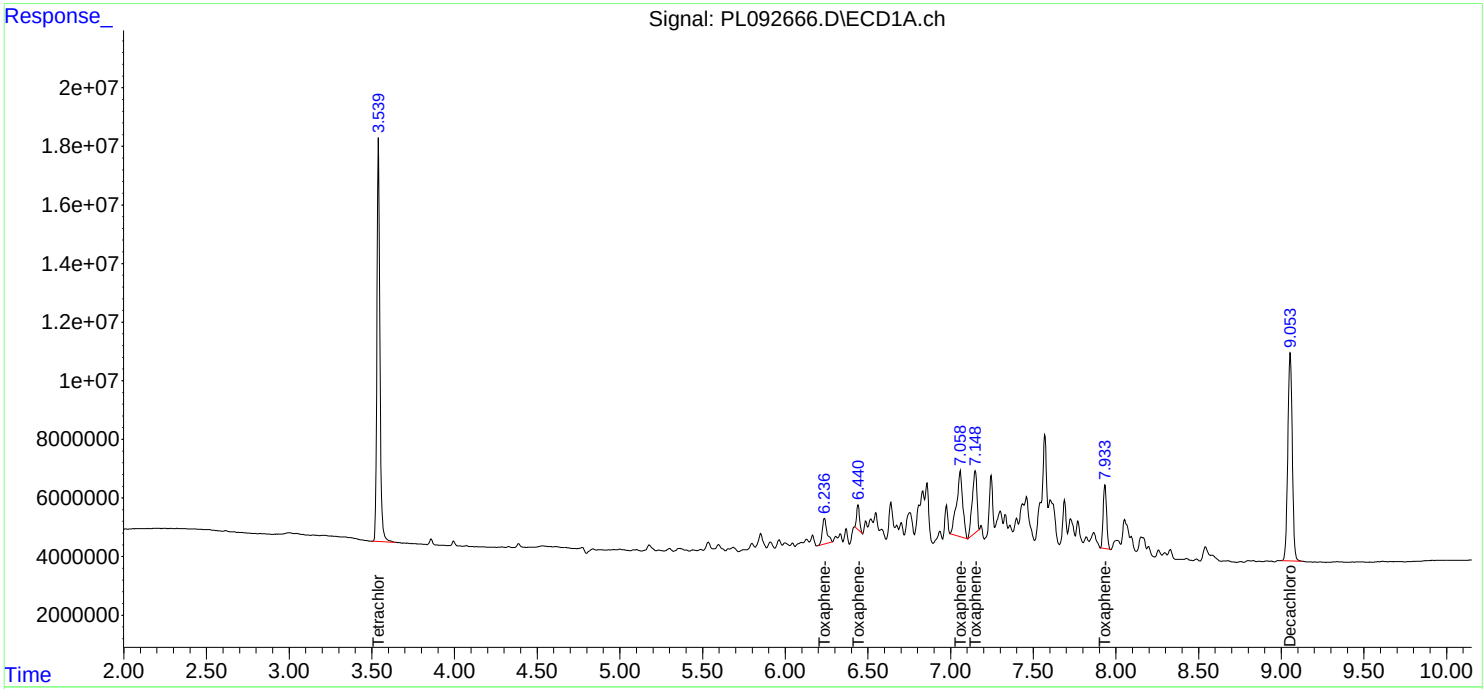
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

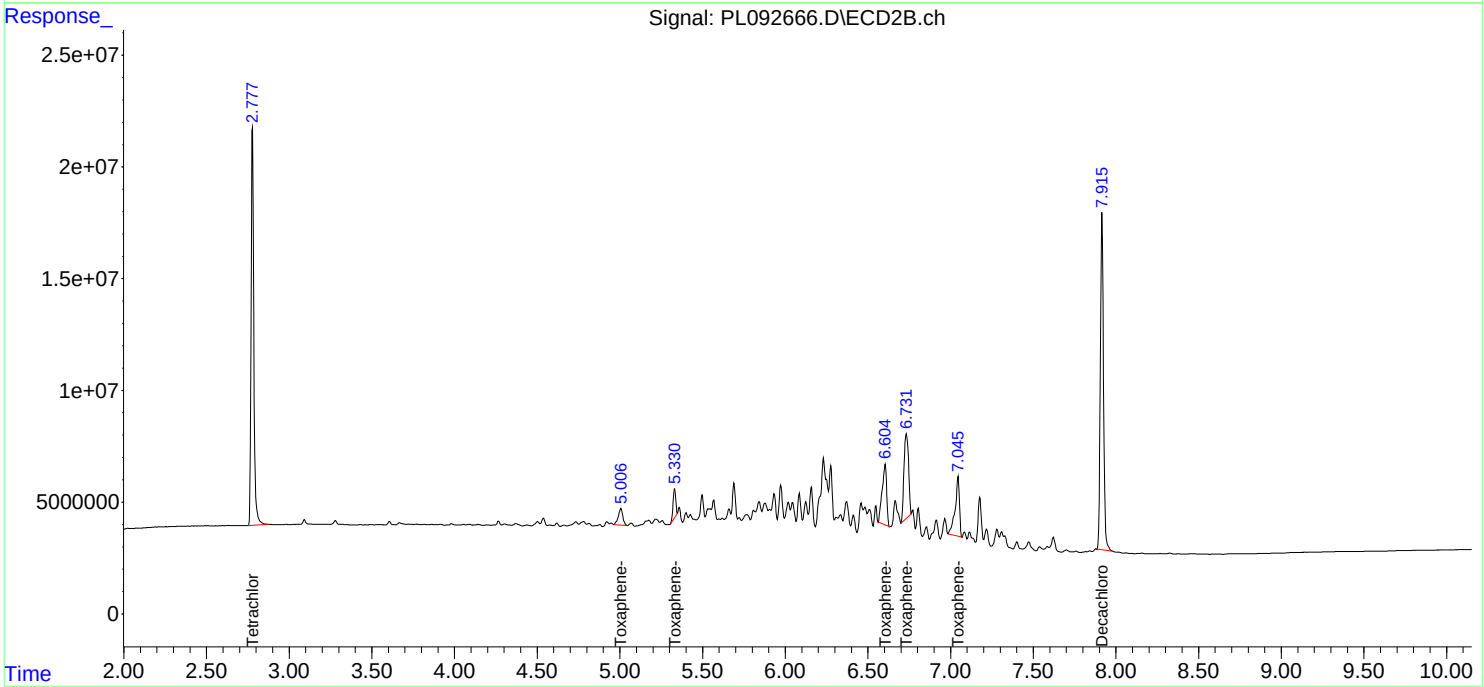
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092666.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:10
Operator : AR\AJ
Sample : PTOXICC750
Misc :
ALS Vial : 16 Sample Multiplier: 1

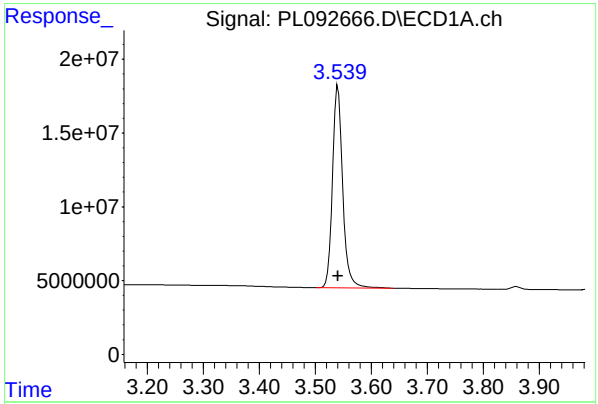
**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:38:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



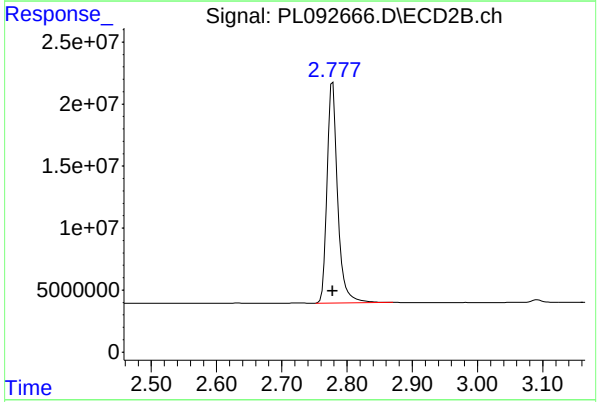






#1 Tetrachloro-m-xylene

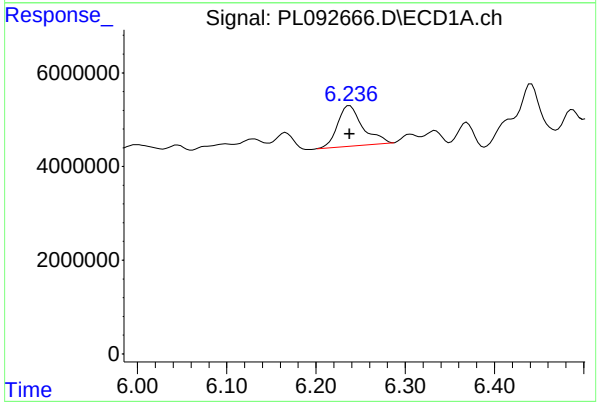
R.T.: 3.540 min
Delta R.T.: 0.000 min
Response: 173322158
Conc: 73.80 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC750



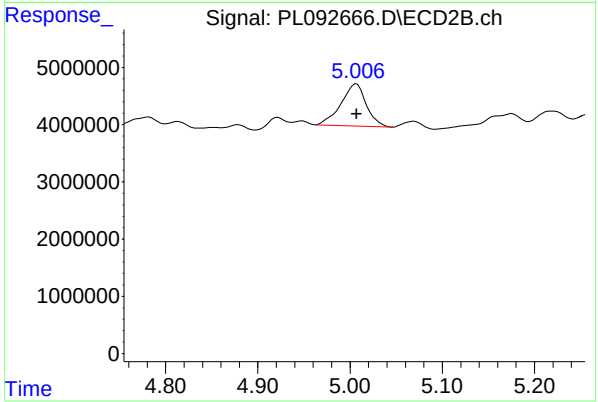

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 201225560
Conc: 73.95 ng/ml



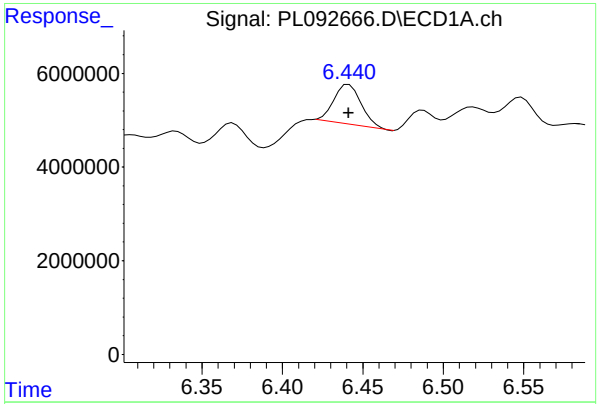

#2 Toxaphene-1

R.T.: 6.238 min
Delta R.T.: 0.000 min
Response: 17085750
Conc: 746.38 ng/ml




#2 Toxaphene-1

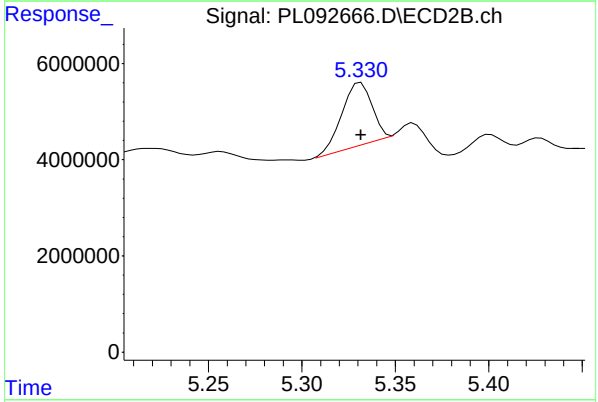
R.T.: 5.007 min
Delta R.T.: 0.000 min
Response: 14085792
Conc: 727.91 ng/ml




#3 Toxaphene-2

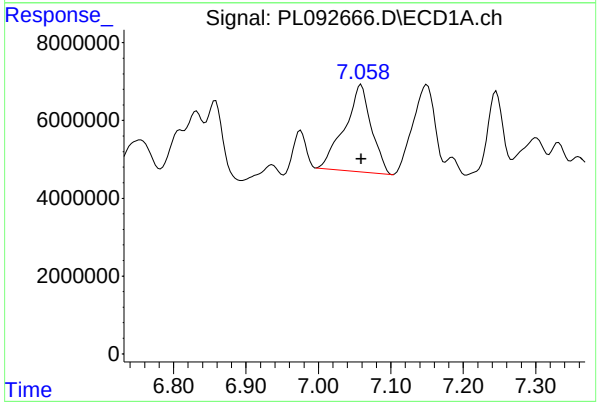
R.T.: 6.441 min
Delta R.T.: 0.000 min
Response: 10047093
Conc: 752.91 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC750



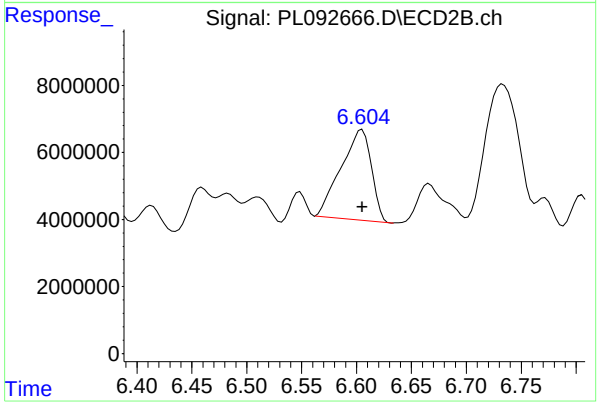

#3 Toxaphene-2

R.T.: 5.332 min
Delta R.T.: 0.000 min
Response: 14544964
Conc: 743.56 ng/ml



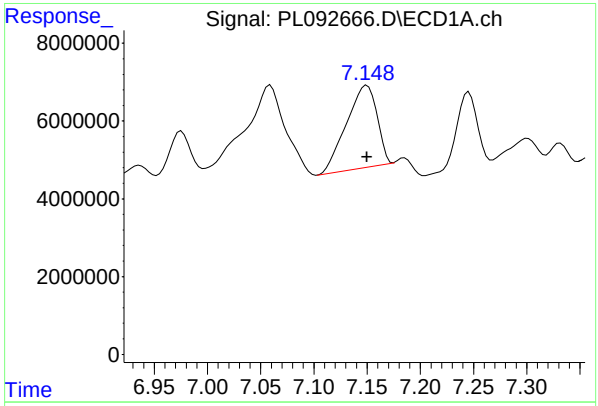

#4 Toxaphene-3

R.T.: 7.059 min
Delta R.T.: 0.000 min
Response: 57269471
Conc: 748.42 ng/ml




#4 Toxaphene-3

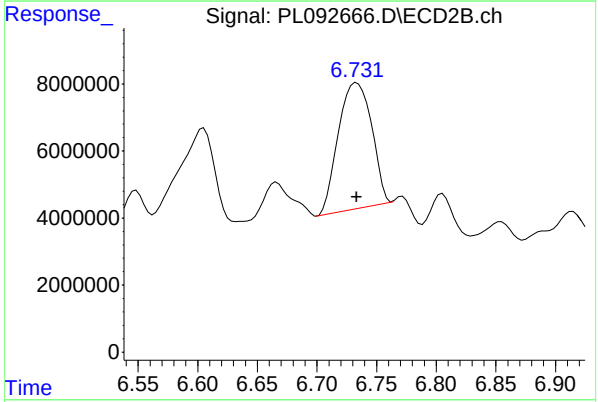
R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 51885456
Conc: 736.83 ng/ml




#5 Toxaphene-4

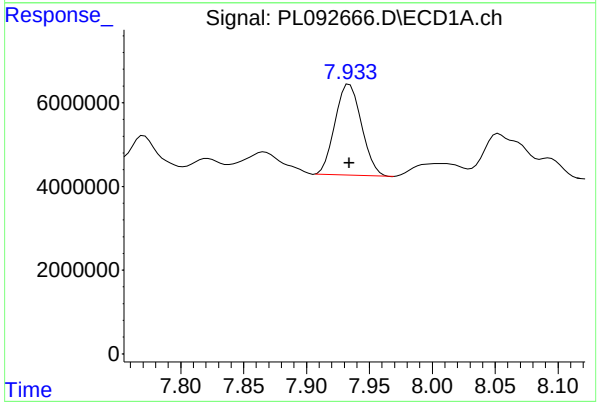
R.T.: 7.150 min
Delta R.T.: 0.000 min
Response: 42151328
Conc: 737.54 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC750



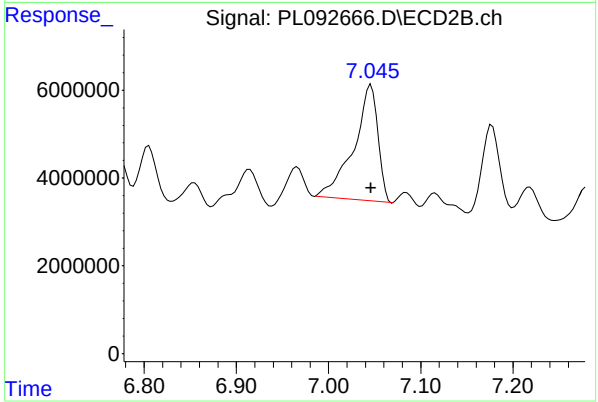

#5 Toxaphene-4

R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 73116798
Conc: 756.97 ng/ml



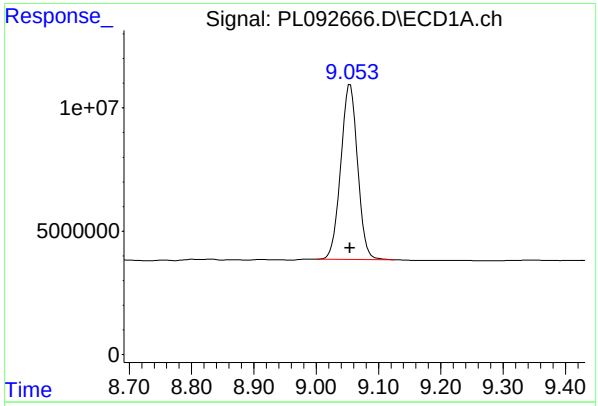

#6 Toxaphene-5

R.T.: 7.934 min
Delta R.T.: 0.000 min
Response: 31769944
Conc: 732.85 ng/ml




#6 Toxaphene-5

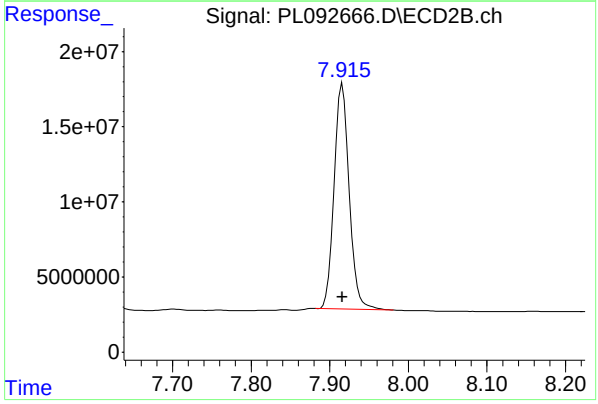
R.T.: 7.046 min
Delta R.T.: 0.000 min
Response: 48135114
Conc: 736.05 ng/ml




#7 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 133305098
Conc: 73.42 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC750




#7 Decachlorobiphenyl

R.T.: 7.916 min
Delta R.T.: 0.000 min
Response: 199841678
Conc: 73.67 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:23
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:35:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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 | | | | | | |
| 1) SA | Tetrachlo... | 3.540 | 2.778 | 120.2E6 | 137.2E6 | 50.000 | 50.000 |
| 7) SA | Decachlor... | 9.054 | 7.916 | 94872630 | 139.2E6 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 2) | Toxaphene-1 | 6.237 | 5.007 | 11981208 | 9976373 | 500.000 | 500.000 |
| 3) | Toxaphene-2 | 6.441 | 5.332 | 6911814 | 9874812 | 500.000 | 500.000 |
| 4) | Toxaphene-3 | 7.058 | 6.605 | 39579915 | 35111261 | 500.000 | 500.000 |
| 5) | Toxaphene-4 | 7.149 | 6.733 | 29901849 | 49168858 | 500.000 | 500.000 |
| 6) | Toxaphene-5 | 7.934 | 7.045 | 22664593 | 32739853 | 500.000 | 500.000 |

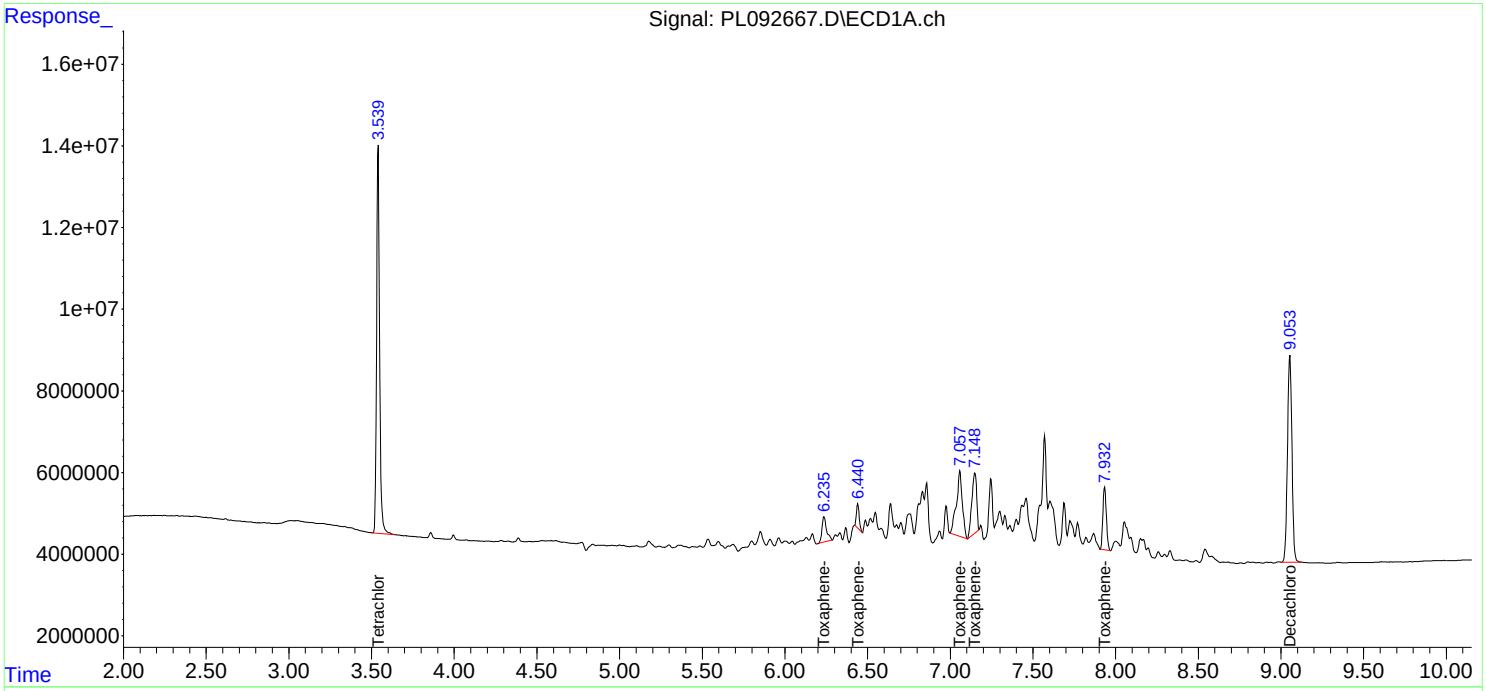
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

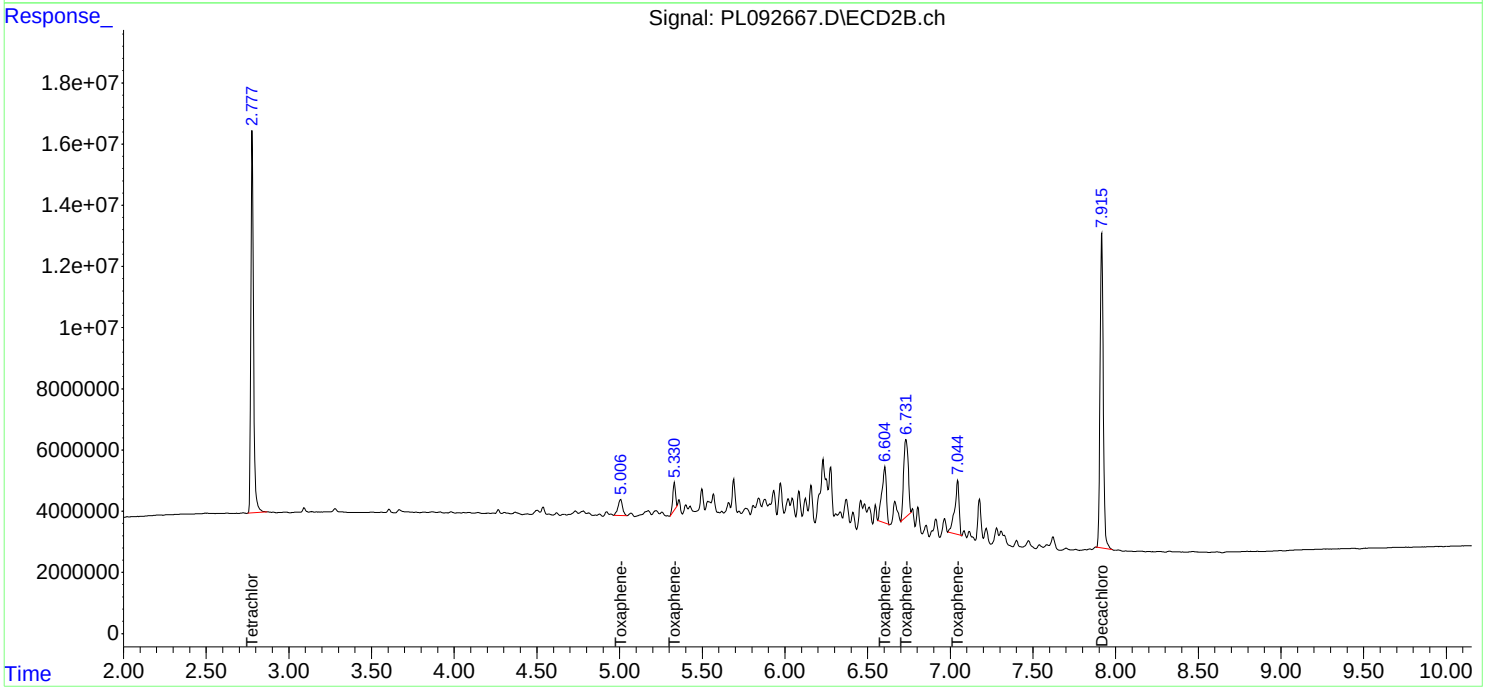
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:23
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

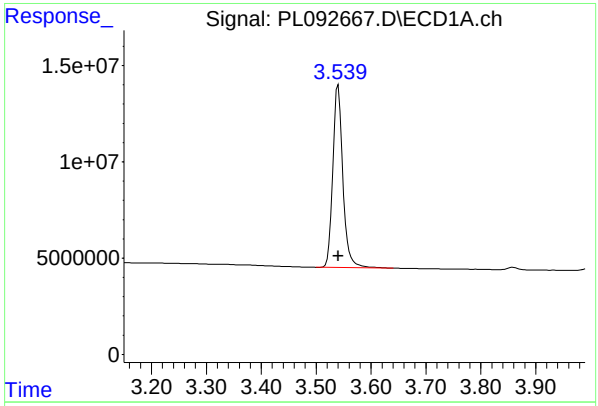
**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:35:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:35:39 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



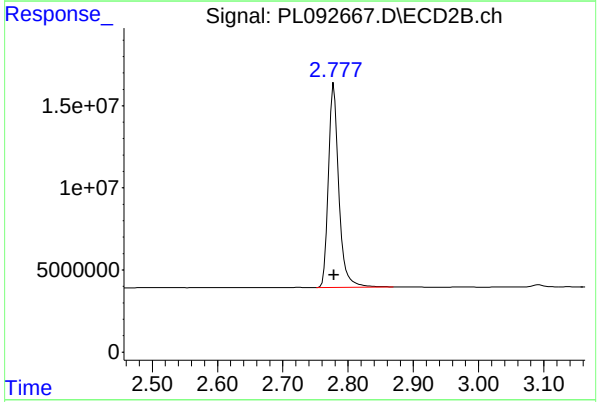






#1 Tetrachloro-m-xylene

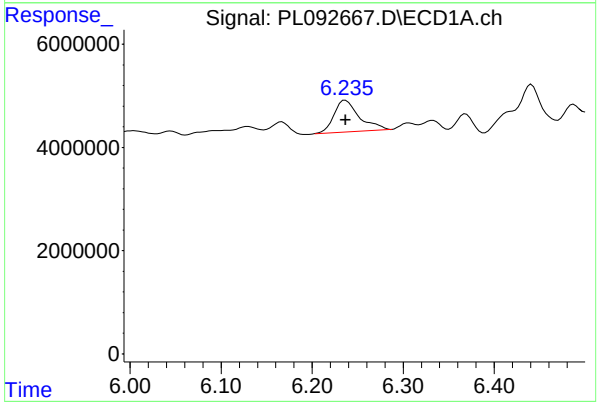
R.T.: 3.540 min
Delta R.T.: 0.000 min
Response: 120174769
Conc: 50.00 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC500



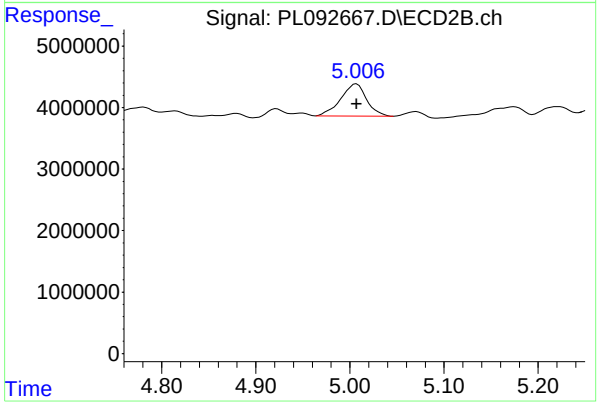

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 137198033
Conc: 50.00 ng/ml



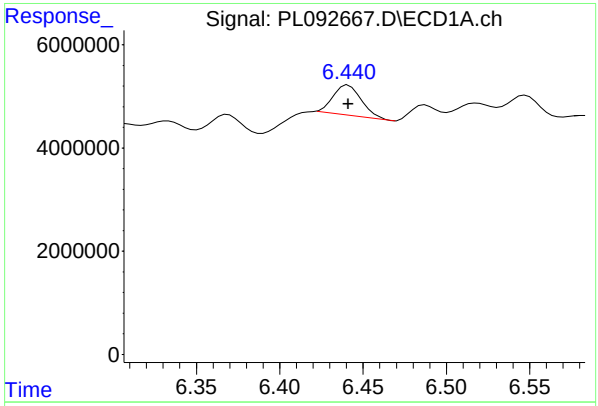

#2 Toxaphene-1

R.T.: 6.237 min
Delta R.T.: 0.000 min
Response: 11981208
Conc: 500.00 ng/ml




#2 Toxaphene-1

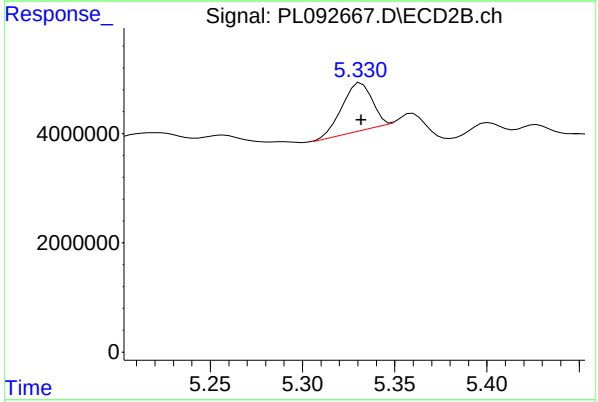
R.T.: 5.007 min
Delta R.T.: 0.000 min
Response: 9976373
Conc: 500.00 ng/ml




#3 Toxaphene-2

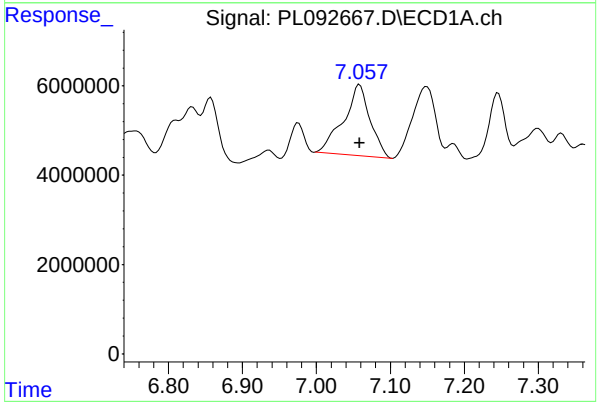
R.T.: 6.441 min
Delta R.T.: 0.000 min
Response: 6911814
Conc: 500.00 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC500



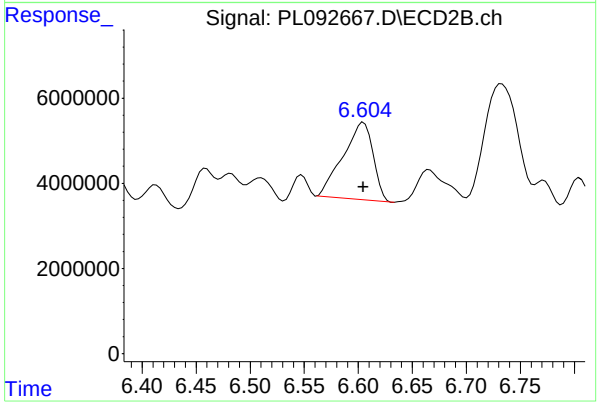

#3 Toxaphene-2

R.T.: 5.332 min
Delta R.T.: 0.000 min
Response: 9874812
Conc: 500.00 ng/ml



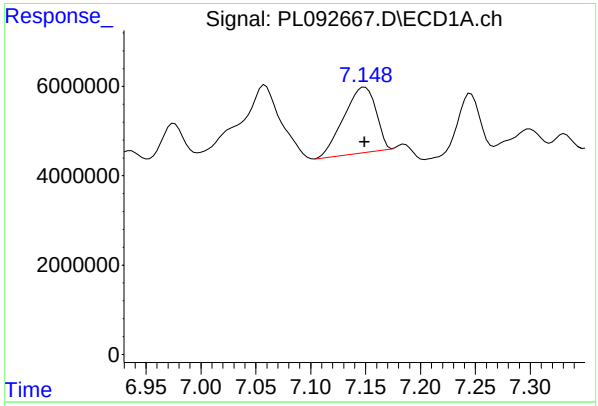

#4 Toxaphene-3

R.T.: 7.058 min
Delta R.T.: 0.000 min
Response: 39579915
Conc: 500.00 ng/ml




#4 Toxaphene-3

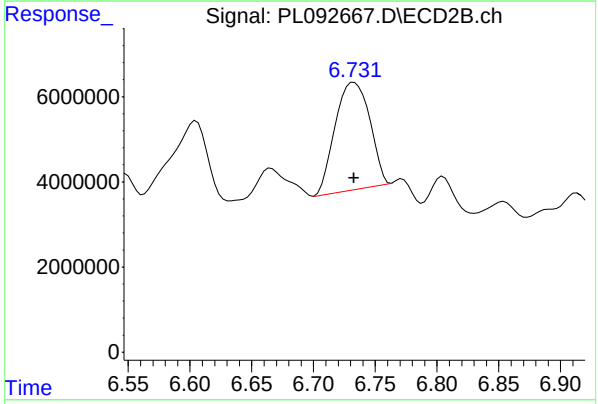
R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 35111261
Conc: 500.00 ng/ml




#5 Toxaphene-4

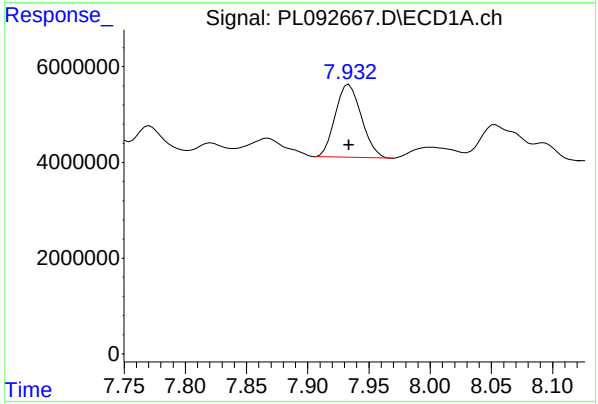
R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 29901849
Conc: 500.00 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC500



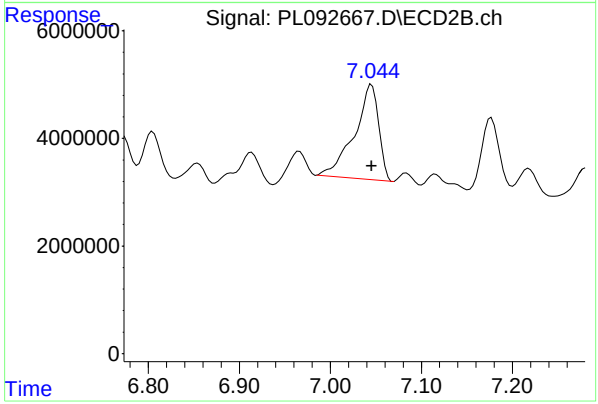

#5 Toxaphene-4

R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 49168858
Conc: 500.00 ng/ml



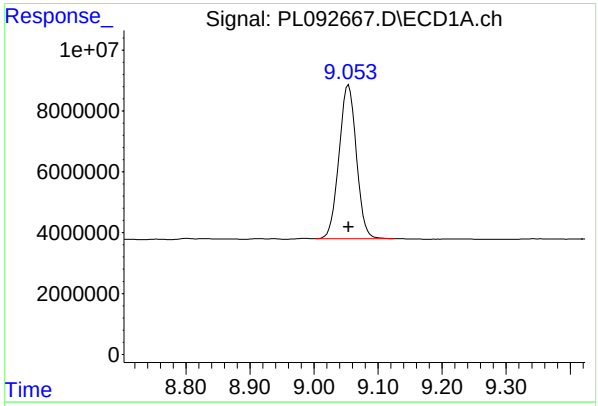

#6 Toxaphene-5

R.T.: 7.934 min
Delta R.T.: 0.000 min
Response: 22664593
Conc: 500.00 ng/ml




#6 Toxaphene-5

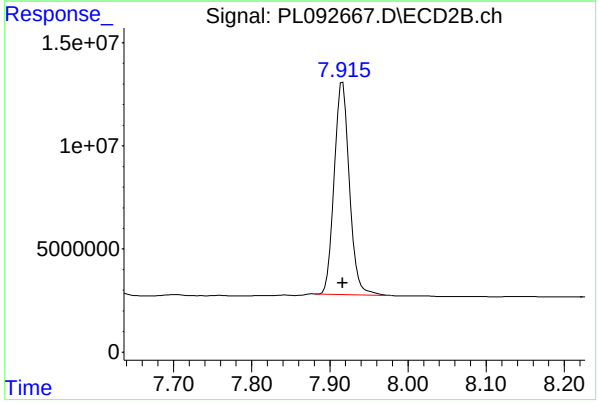
R.T.: 7.045 min
Delta R.T.: 0.000 min
Response: 32739853
Conc: 500.00 ng/ml




#7 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 94872630
Conc: 50.00 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC500




#7 Decachlorobiphenyl

R.T.: 7.916 min
Delta R.T.: 0.000 min
Response: 139239048
Conc: 50.00 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092668.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:37
Operator : AR\AJ
Sample : PTOXICC250
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:50:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:50:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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 | | | | | | |
| 1) SA | Tetrachlo... | 3.540 | 2.778 | 62484007 | 68376441 | 26.186 | 25.097 |
| 7) SA | Decachlor... | 9.054 | 7.915 | 50713559 | 70874061 | 27.135 | 25.836 |
| | Target Compounds | | | | | | |
| 2) | Toxaphene-1 | 6.238 | 5.006 | 6429994 | 5013689 | 272.475 | 256.757 |
| 3) | Toxaphene-2 | 6.441 | 5.331 | 3674272 | 5003635 | 268.538 | 254.321 |
| 4) | Toxaphene-3 | 7.059 | 6.605 | 20710993 | 17041806 | 265.180 | 243.960 |
| 5) | Toxaphene-4 | 7.149 | 6.733 | 15508216 | 24035523 | 265.680 | 249.128 |
| 6) | Toxaphene-5 | 7.934 | 7.046 | 11910459 | 16201809 | 268.111 | 248.307 |

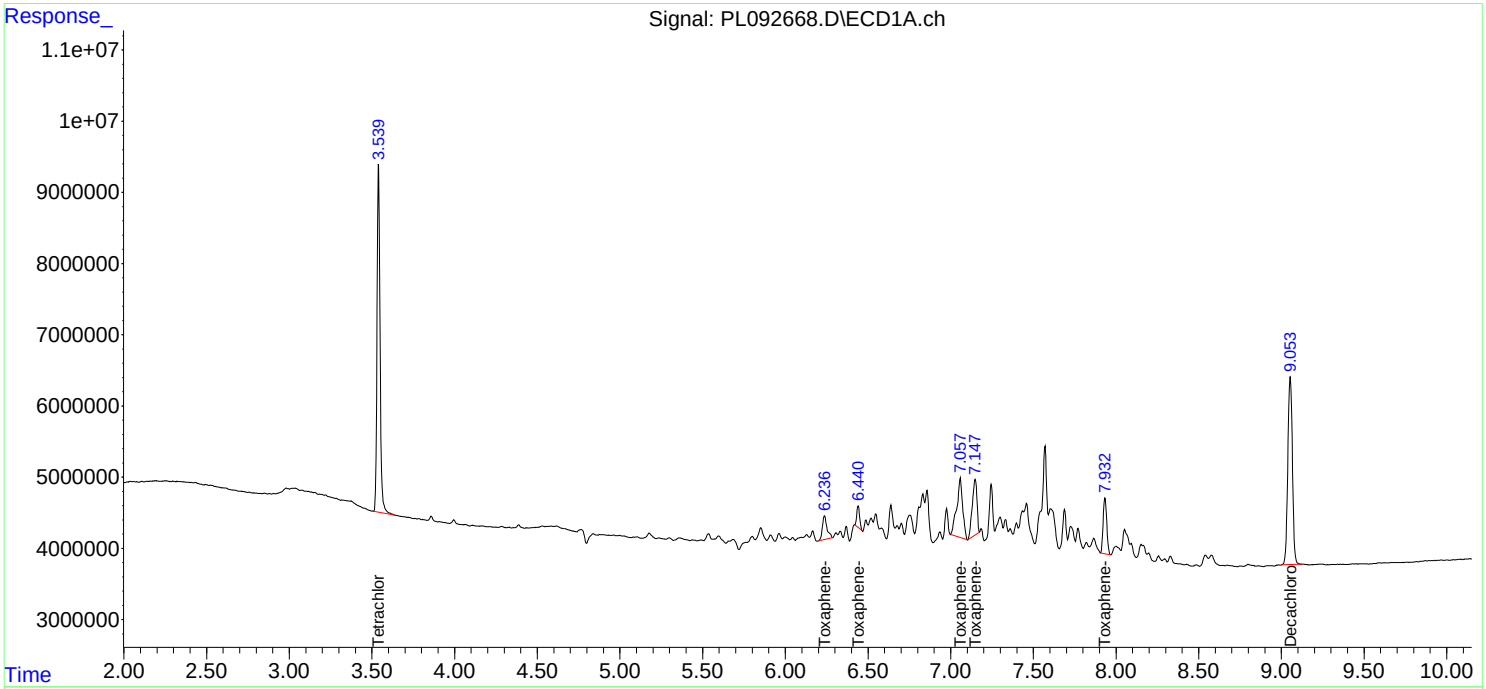
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

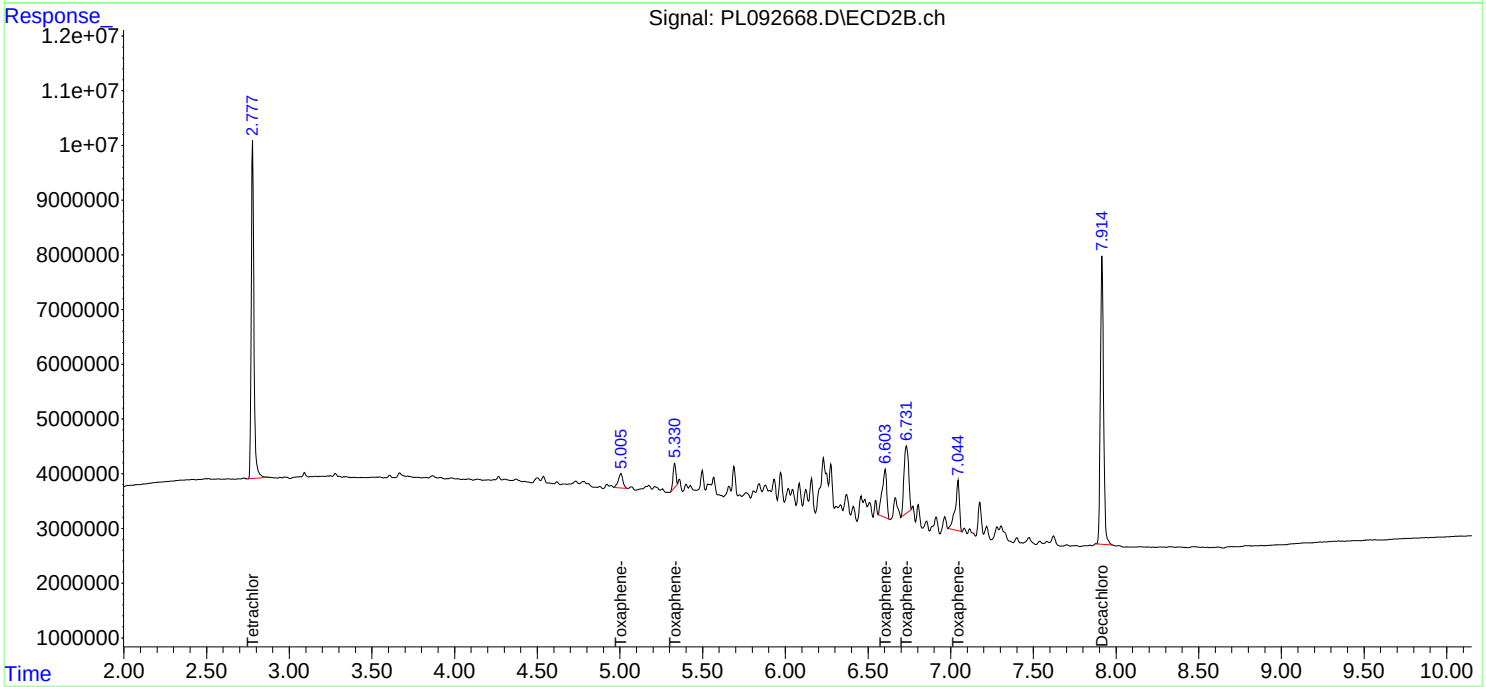
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092668.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:37
Operator : AR\AJ
Sample : PTOXICC250
Misc :
ALS Vial : 18 Sample Multiplier: 1

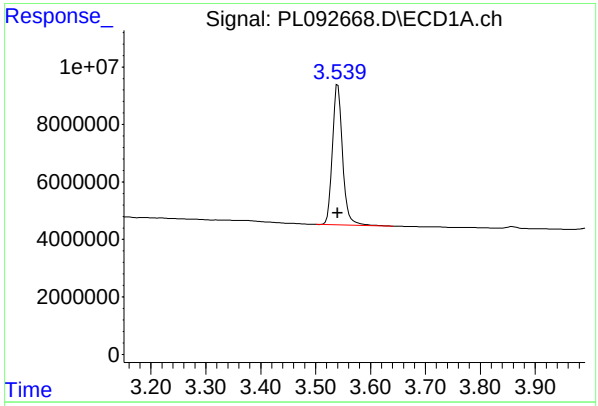
**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:50:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:50:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



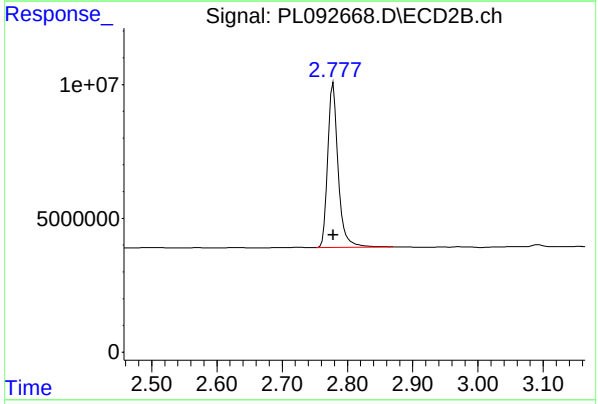






#1 Tetrachloro-m-xylene

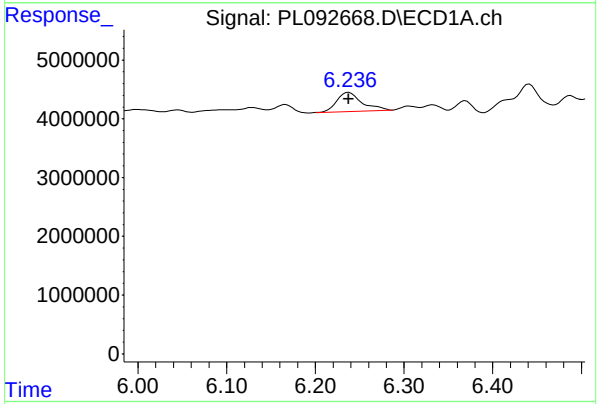
R.T.: 3.540 min
Delta R.T.: 0.000 min
Response: 62484007
Conc: 26.19 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC250



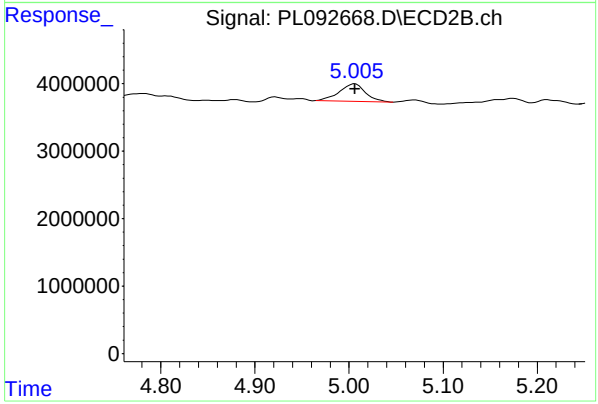

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 68376441
Conc: 25.10 ng/ml



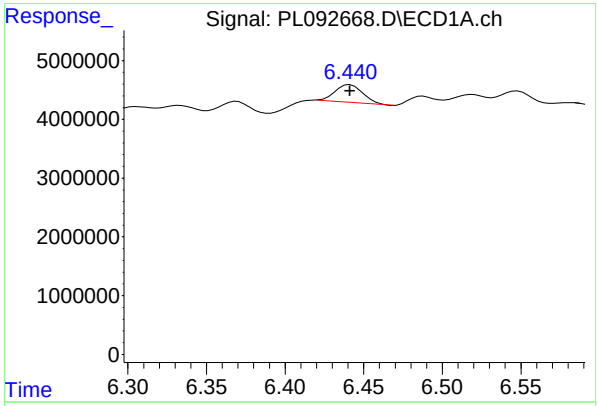

#2 Toxaphene-1

R.T.: 6.238 min
Delta R.T.: 0.000 min
Response: 6429994
Conc: 272.47 ng/ml




#2 Toxaphene-1

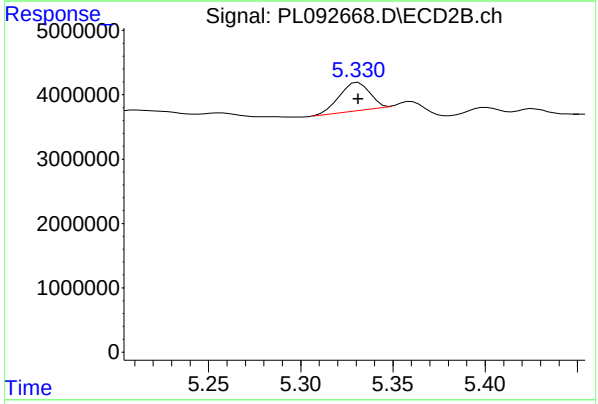
R.T.: 5.006 min
Delta R.T.: 0.000 min
Response: 5013689
Conc: 256.76 ng/ml




#3 Toxaphene-2

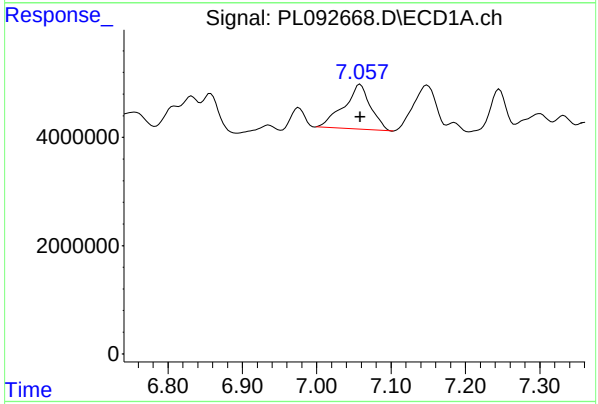
R.T.: 6.441 min
Delta R.T.: 0.000 min
Response: 3674272
Conc: 268.54 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC250



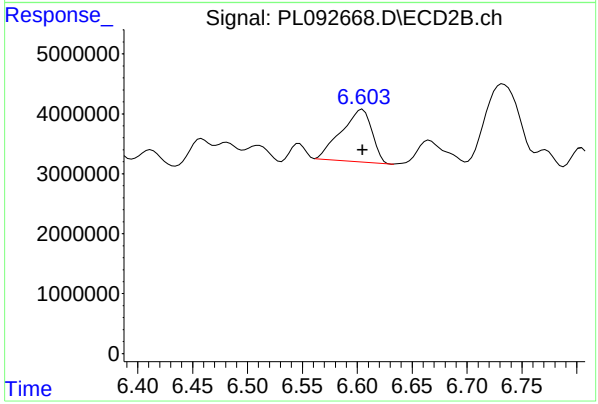

#3 Toxaphene-2

R.T.: 5.331 min
Delta R.T.: 0.000 min
Response: 5003635
Conc: 254.32 ng/ml



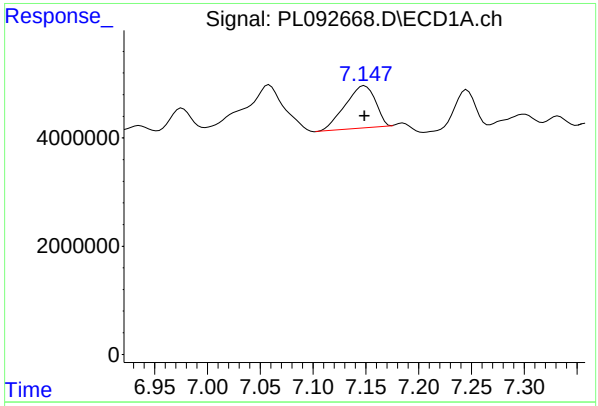

#4 Toxaphene-3

R.T.: 7.059 min
Delta R.T.: 0.000 min
Response: 20710993
Conc: 265.18 ng/ml




#4 Toxaphene-3

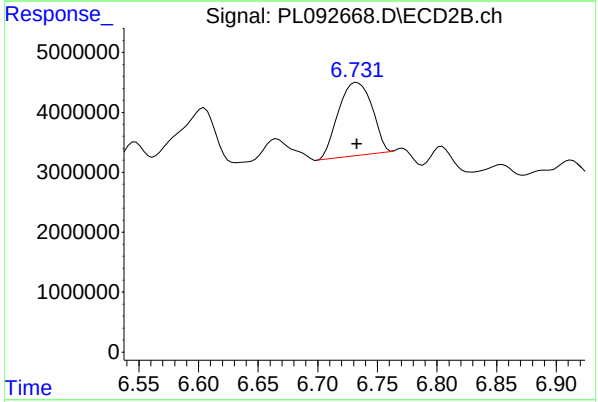
R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 17041806
Conc: 243.96 ng/ml




#5 Toxaphene-4

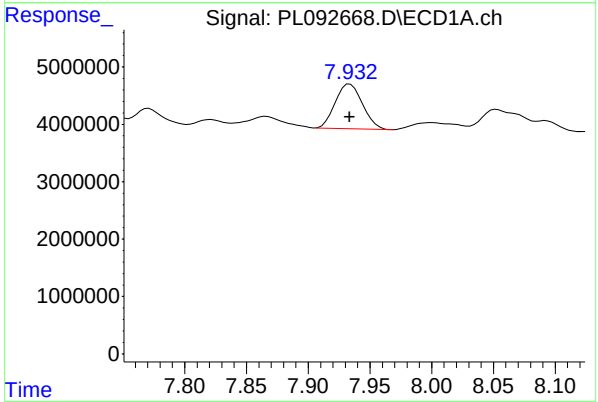
R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 15508216
Conc: 265.68 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC250



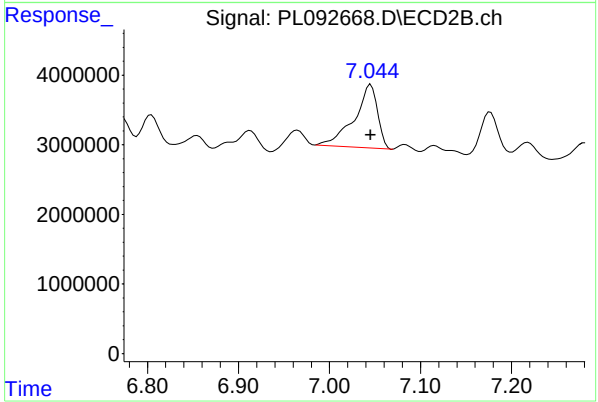

#5 Toxaphene-4

R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 24035523
Conc: 249.13 ng/ml



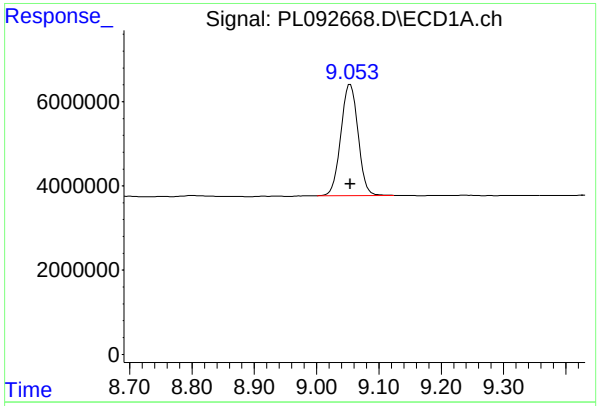

#6 Toxaphene-5

R.T.: 7.934 min
Delta R.T.: 0.000 min
Response: 11910459
Conc: 268.11 ng/ml




#6 Toxaphene-5

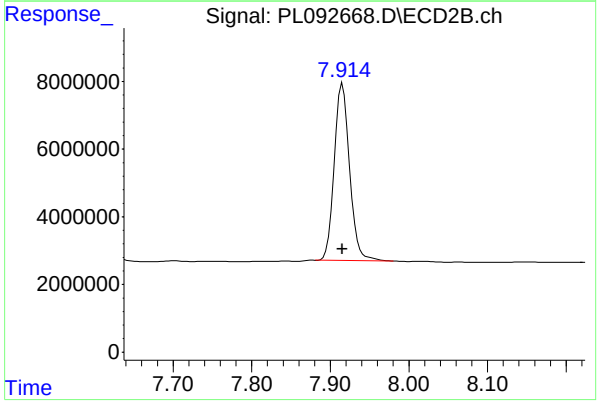
R.T.: 7.046 min
Delta R.T.: 0.000 min
Response: 16201809
Conc: 248.31 ng/ml




#7 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.000 min
Response: 50713559
Conc: 27.14 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC250




#7 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 70874061
Conc: 25.84 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092669.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:50
Operator : AR\AJ
Sample : PTOXICC100
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC100

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 18:03:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:03:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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** | | | | | | |
| 1) SA | Tetrachlo... | 3.540 | 2.778 | 24458845 | 25365906 | 10.199 | 9.440 |
| 7) SA | Decachlor... | 9.053 | 7.916 | 20051940 | 27983827 | 10.575 | 10.160 |
| | **Target Compounds** | | | | | | |
| 2) | Toxaphene-1 | 6.237 | 5.005 | 1602546 | 1697209 | 73.301m | 89.252 |
| 3) | Toxaphene-2 | 6.441 | 5.331 | 1306903 | 1968465 | 96.381 | 100.041 |
| 4) | Toxaphene-3 | 7.058 | 6.604 | 7606859 | 6077649 | 97.907 | 89.326 |
| 5) | Toxaphene-4 | 7.149 | 6.733 | 6350768 | 7476339 | 106.917 | 81.145 |
| 6) | Toxaphene-5 | 7.932 | 7.045 | 4672796 | 6684004 | 104.107 | 101.941 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092669.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 17:50
Operator : AR\AJ
Sample : PTOXICC100
Misc :
ALS Vial : 19 Sample Multiplier: 1

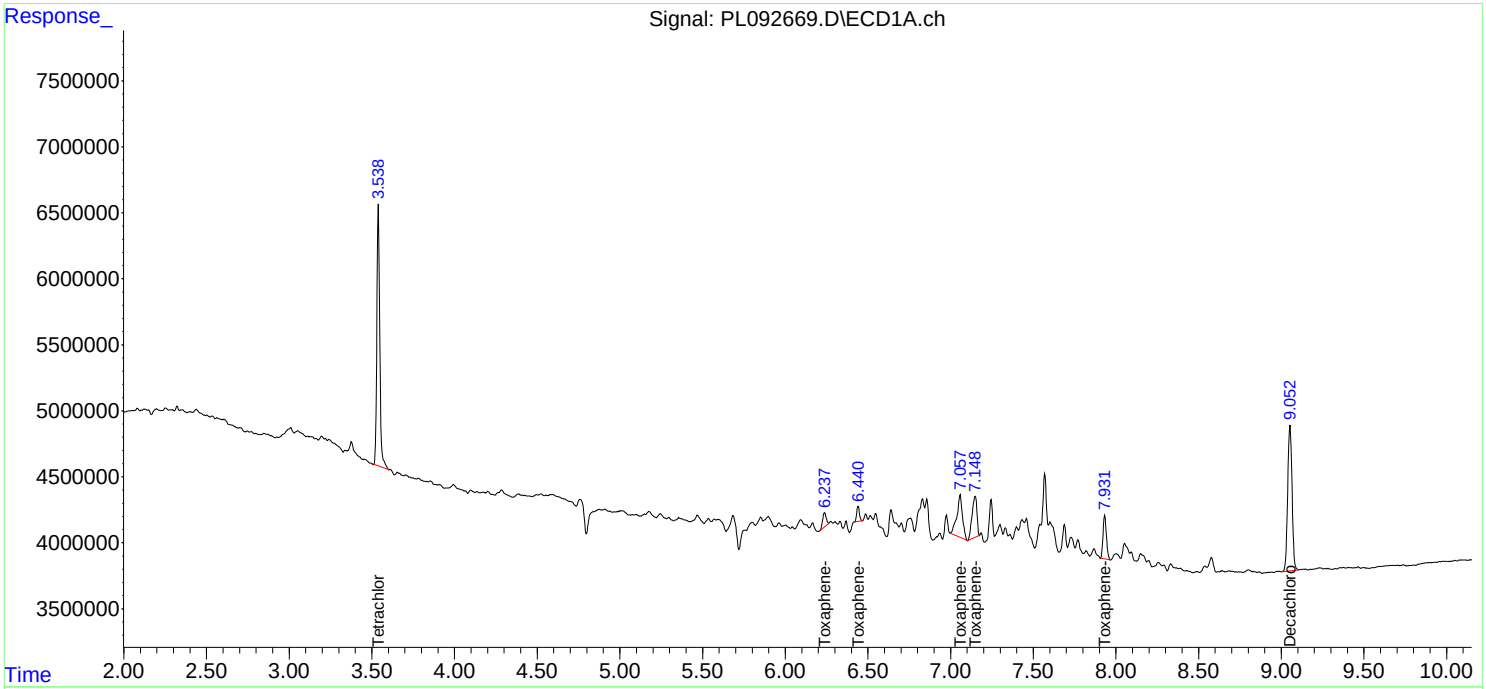
**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC100

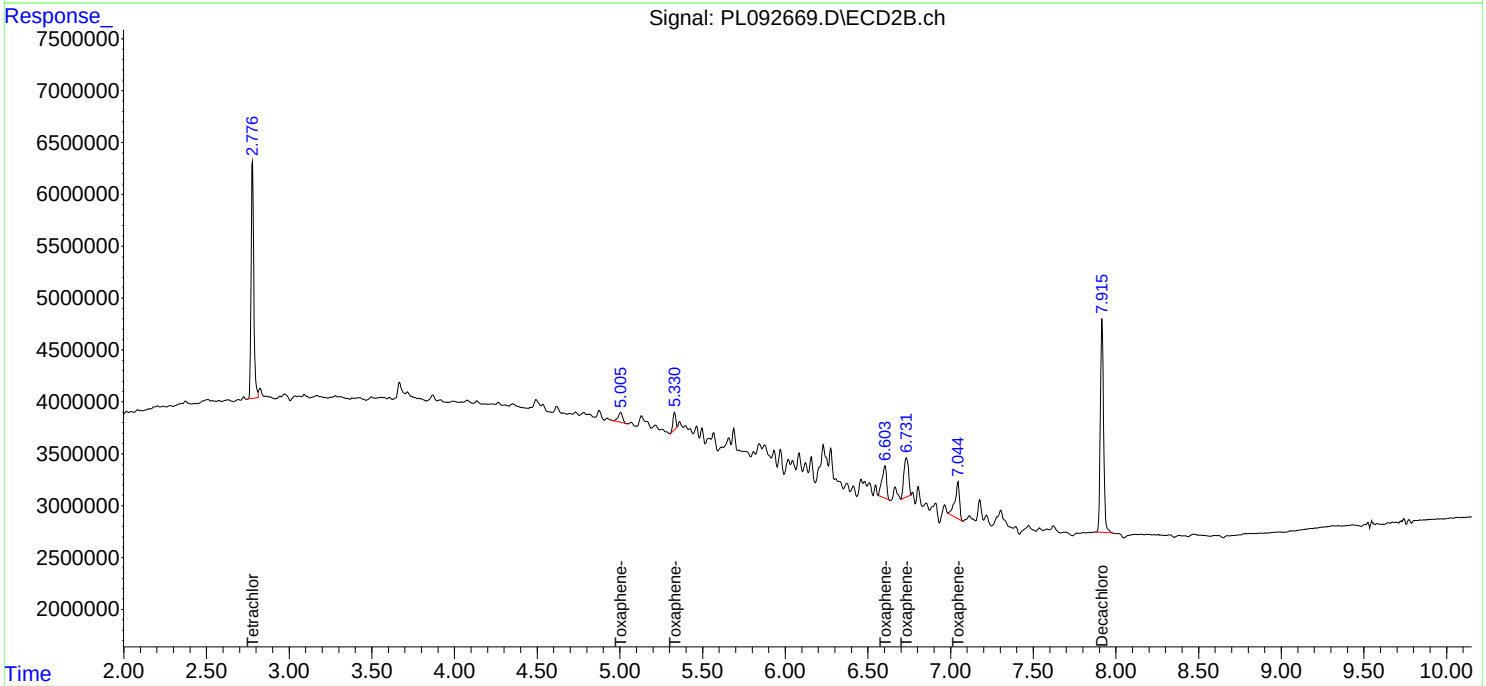
**Manual Integrations APPROVED**

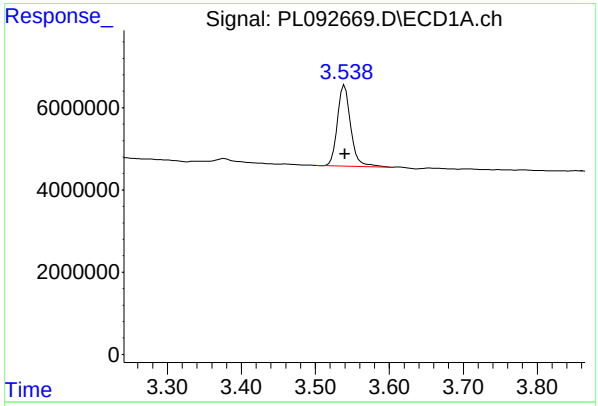
Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 18:03:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:03:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm





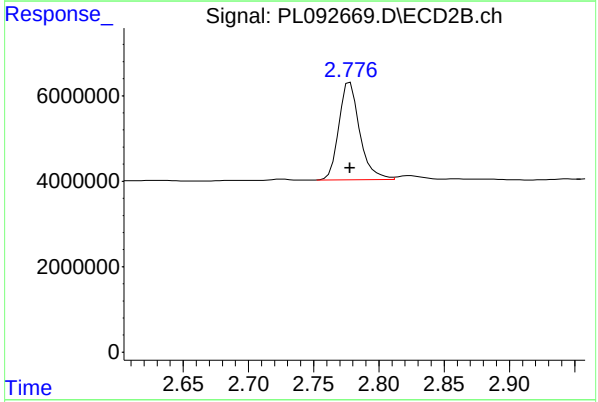

#1 Tetrachloro-m-xylene

R.T.: 3.540 min
Delta R.T.: 0.000 min
Response: 24458845
Conc: 10.20 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC100

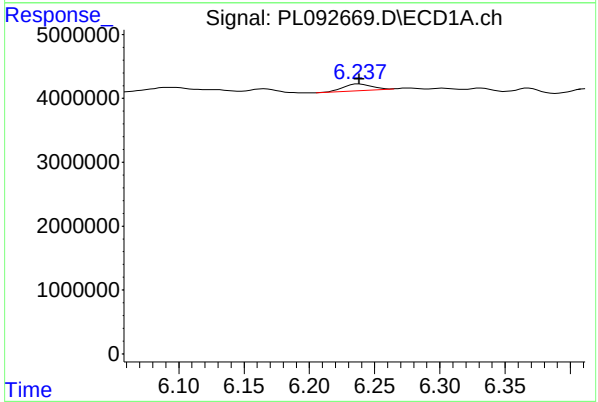
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



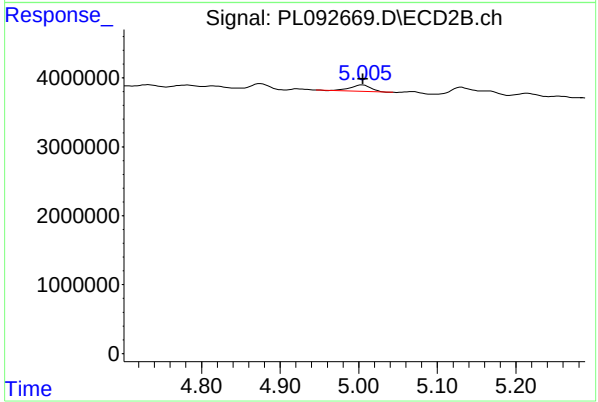

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 25365906
Conc: 9.44 ng/ml



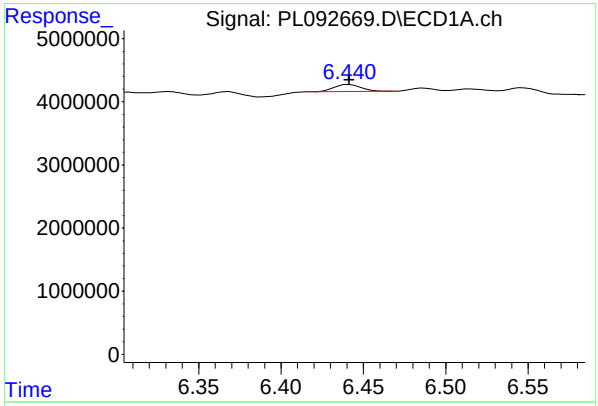

#2 Toxaphene-1

R.T.: 6.237 min
Delta R.T.: -0.001 min
Response: 1602546
Conc: 73.30 ng/ml m




#2 Toxaphene-1

R.T.: 5.005 min
Delta R.T.: 0.000 min
Response: 1697209
Conc: 89.25 ng/ml



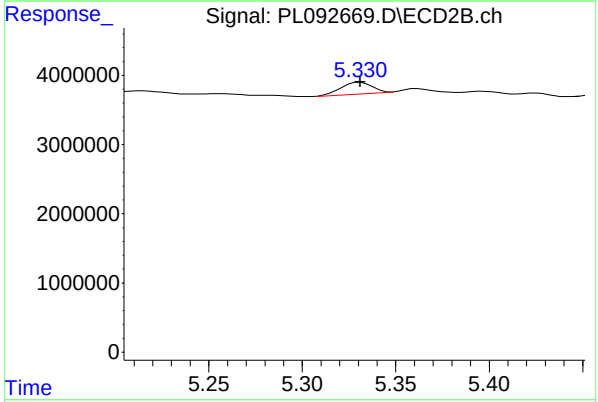

#3 Toxaphene-2

R.T.: 6.441 min
Delta R.T.: 0.000 min
Response: 1306903
Conc: 96.38 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC100

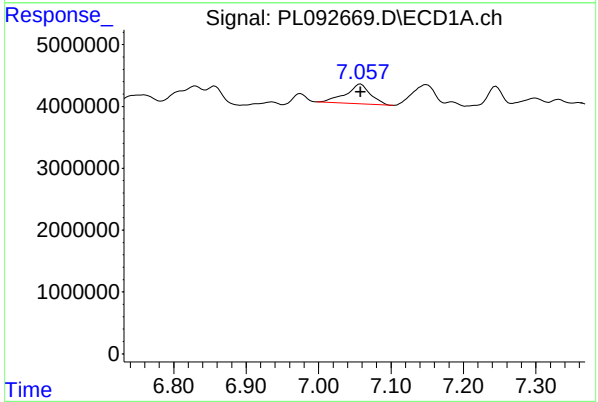
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



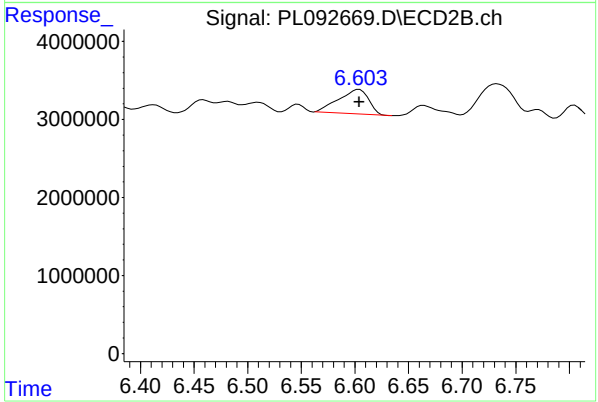

#3 Toxaphene-2

R.T.: 5.331 min
Delta R.T.: 0.000 min
Response: 1968465
Conc: 100.04 ng/ml



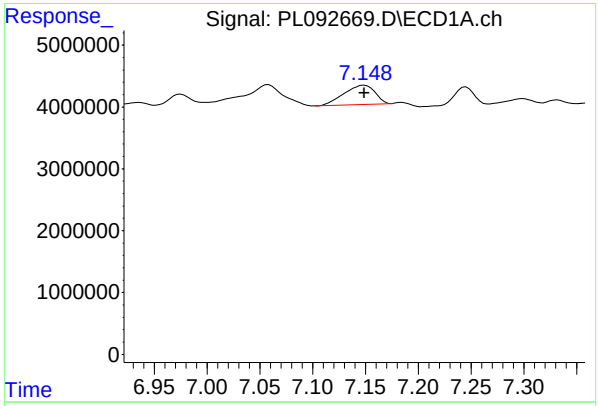

#4 Toxaphene-3

R.T.: 7.058 min
Delta R.T.: 0.000 min
Response: 7606859
Conc: 97.91 ng/ml




#4 Toxaphene-3

R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 6077649
Conc: 89.33 ng/ml



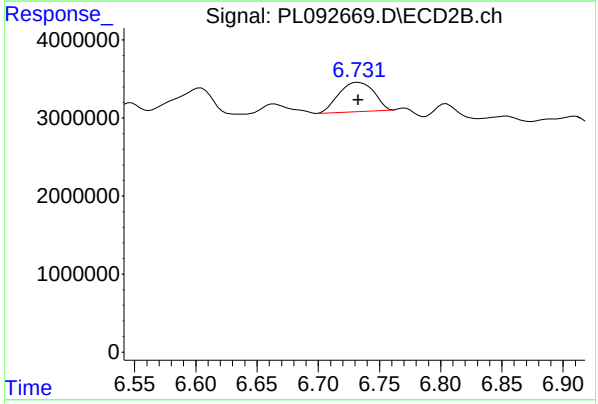

#5 Toxaphene-4

R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 6350768
Conc: 106.92 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC100

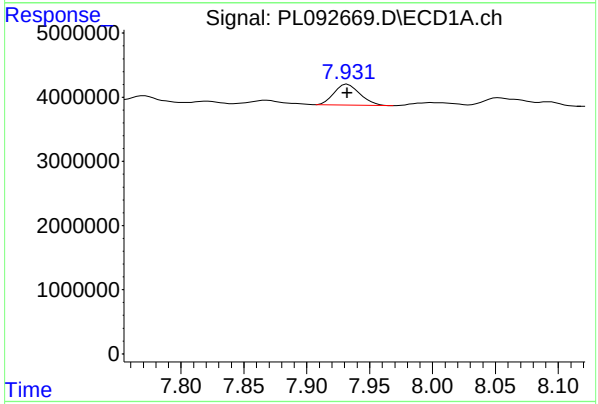
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024



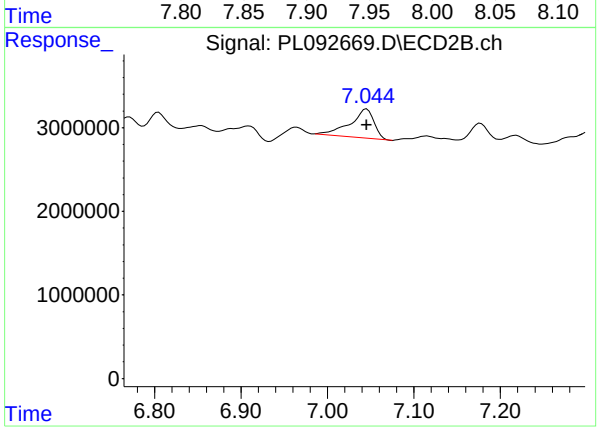

#5 Toxaphene-4

R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 7476339
Conc: 81.14 ng/ml



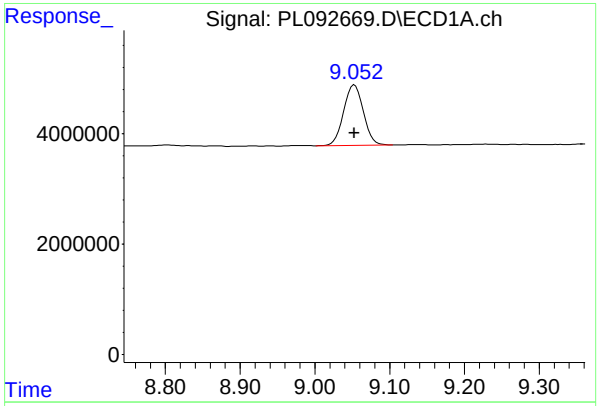

#6 Toxaphene-5

R.T.: 7.932 min
Delta R.T.: 0.000 min
Response: 4672796
Conc: 104.11 ng/ml




#6 Toxaphene-5

R.T.: 7.045 min
Delta R.T.: 0.000 min
Response: 6684004
Conc: 101.94 ng/ml



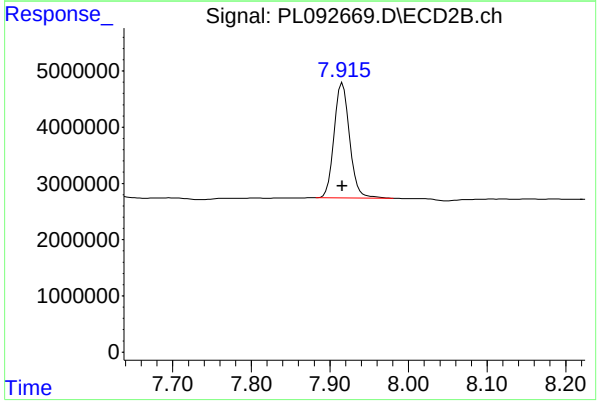

#7 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: 0.000 min
Response: 20051940
Conc: 10.57 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXICC100

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 10/29/2024
Supervised By :Ankita Jodhani 10/29/2024




#7 Decachlorobiphenyl

R.T.: 7.916 min
Delta R.T.: 0.000 min
Response: 27983827
Conc: 10.16 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092672.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 18:57
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
ICVPL102824TOX

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 19:11:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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 | | | | | | |
| 1) SA | Tetrachlo... | 3.540 | 2.778 | 120.8E6 | 137.1E6 | 50.385 | 51.035 |
| 7) SA | Decachlor... | 9.053 | 7.916 | 95483844 | 139.1E6 | 50.356 | 50.519 |
| | Target Compounds | | | | | | |
| 2) | Toxaphene-1 | 6.237 | 5.006 | 12257412 | 10058947 | 555.039 | 528.973 |
| 3) | Toxaphene-2 | 6.441 | 5.331 | 6863785 | 9788249 | 506.186 | 497.458 |
| 4) | Toxaphene-3 | 7.058 | 6.604 | 39909041 | 34565997 | 513.663 | 508.031 |
| 5) | Toxaphene-4 | 7.149 | 6.732 | 29767251 | 48553437 | 501.141 | 526.978 |
| 6) | Toxaphene-5 | 7.933 | 7.046 | 22590334 | 32781409 | 503.299 | 499.967 |

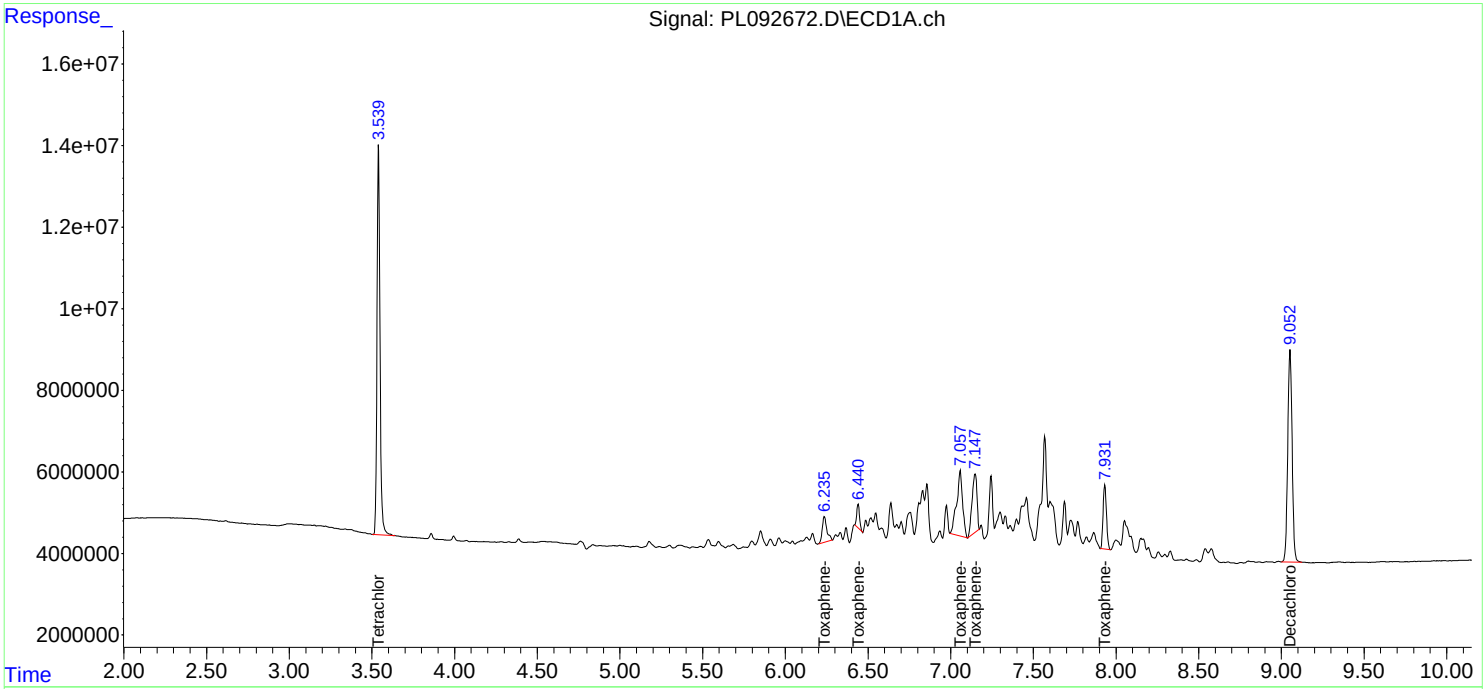
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

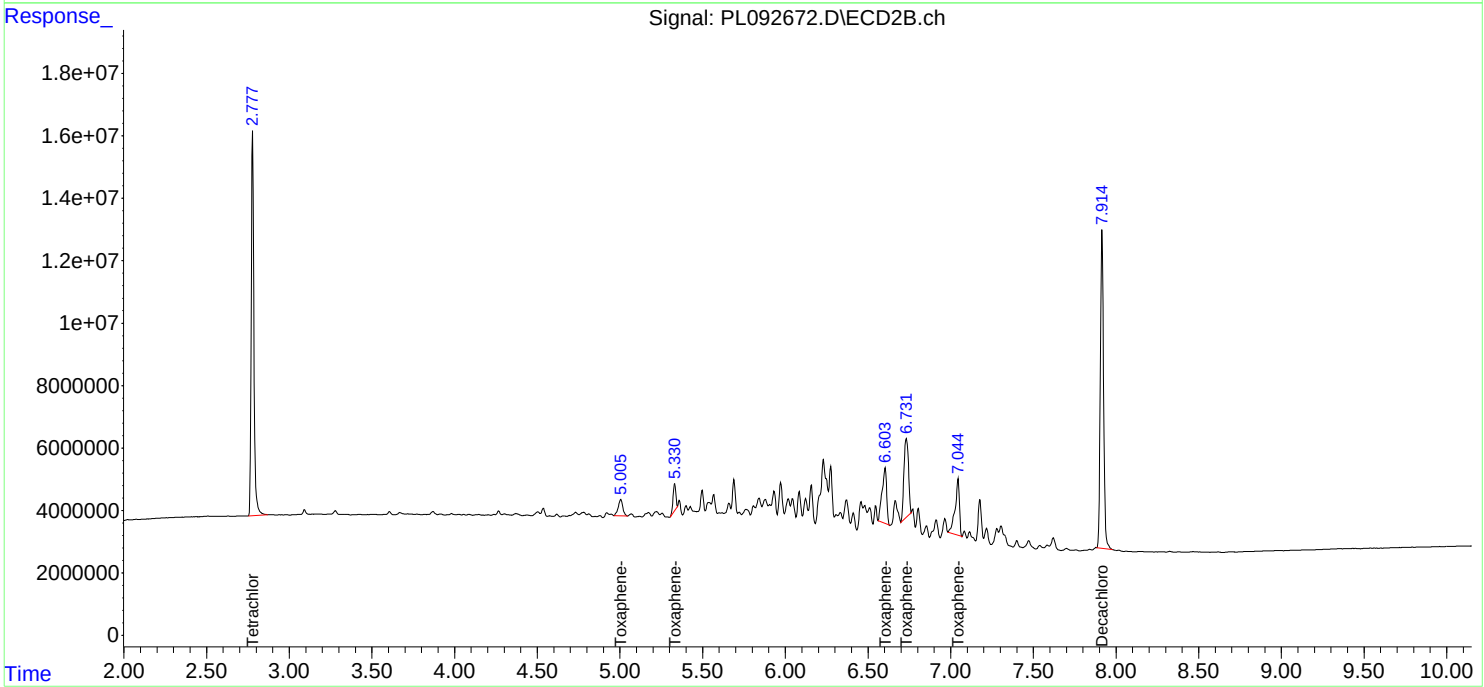
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092672.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 18:57
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 24 Sample Multiplier: 1

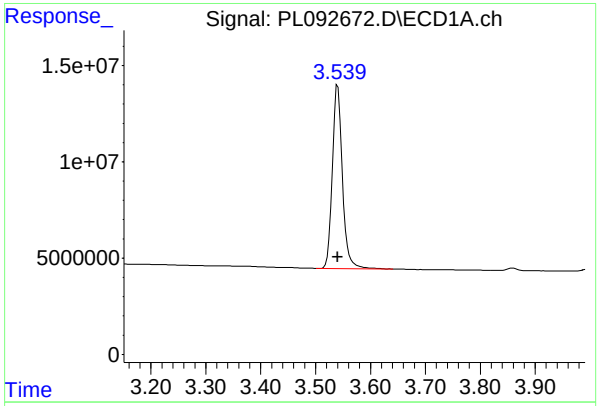
**Instrument :**
ECD_L
**ClientSampleId :**
ICVPL102824TOX

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 19:11:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



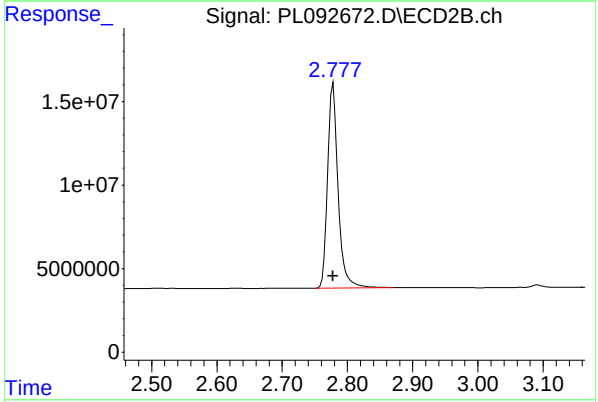






#1 Tetrachloro-m-xylene

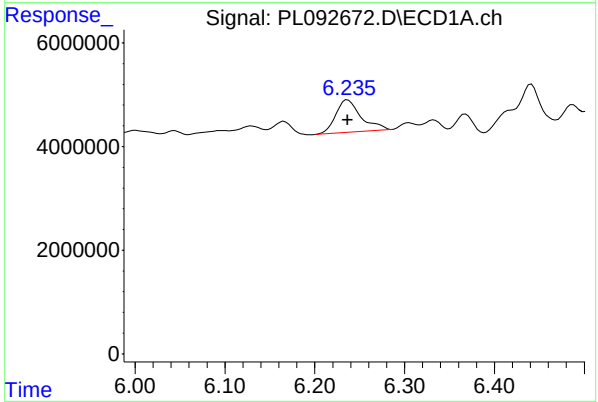
R.T.: 3.540 min
Delta R.T.: 0.000 min
Response: 120827294
Conc: 50.38 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
ICVPL102824TOX



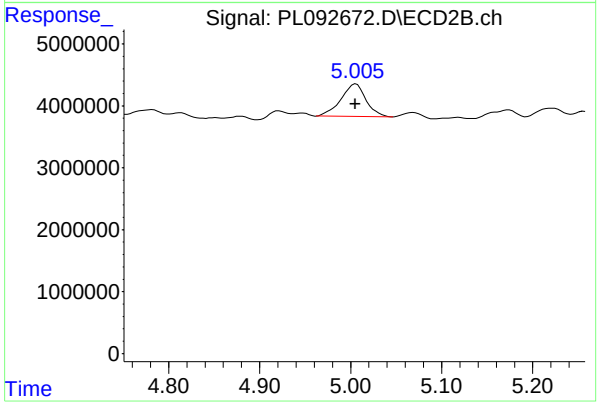

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 137127288
Conc: 51.03 ng/ml



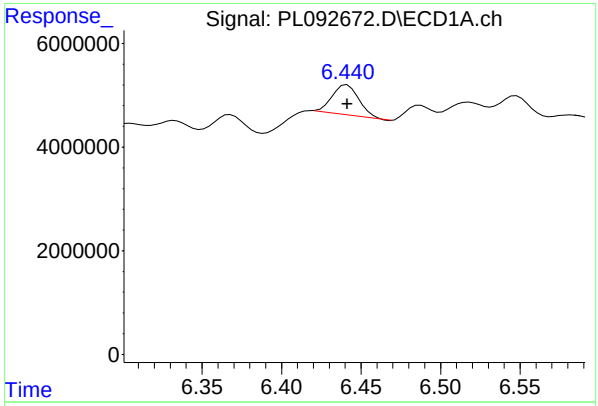

#2 Toxaphene-1

R.T.: 6.237 min
Delta R.T.: 0.000 min
Response: 12257412
Conc: 555.04 ng/ml




#2 Toxaphene-1

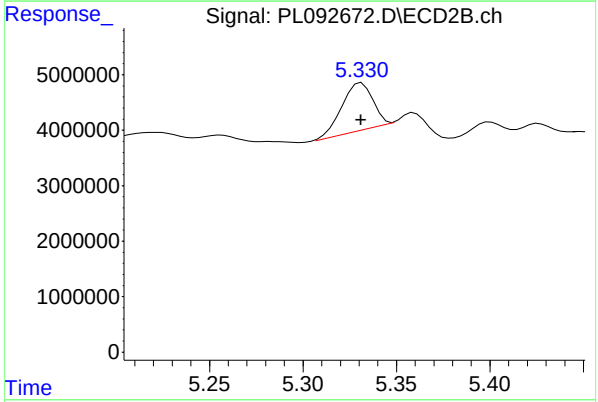
R.T.: 5.006 min
Delta R.T.: 0.000 min
Response: 10058947
Conc: 528.97 ng/ml




#3 Toxaphene-2

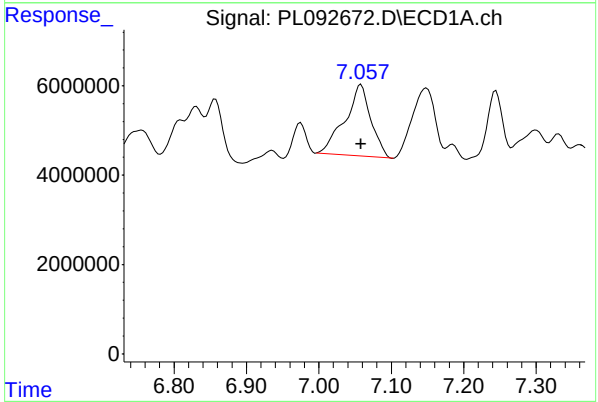
R.T.: 6.441 min
Delta R.T.: 0.000 min
Response: 6863785
Conc: 506.19 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
ICVPL102824TOX



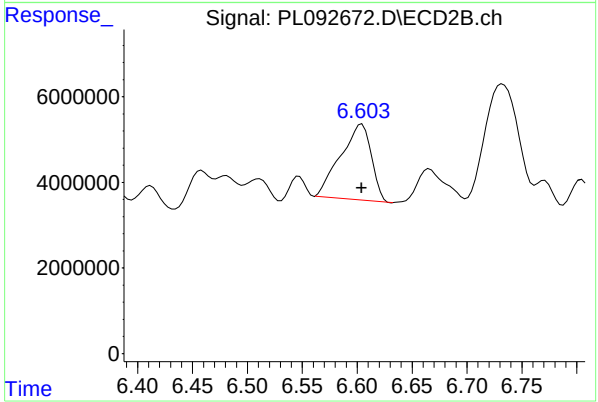

#3 Toxaphene-2

R.T.: 5.331 min
Delta R.T.: 0.000 min
Response: 9788249
Conc: 497.46 ng/ml



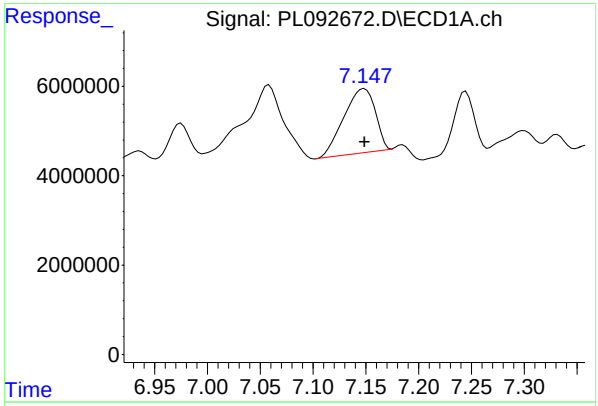

#4 Toxaphene-3

R.T.: 7.058 min
Delta R.T.: 0.000 min
Response: 39909041
Conc: 513.66 ng/ml




#4 Toxaphene-3

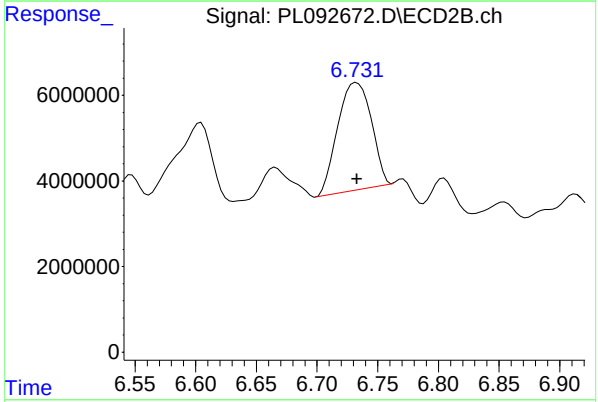
R.T.: 6.604 min
Delta R.T.: 0.000 min
Response: 34565997
Conc: 508.03 ng/ml




#5 Toxaphene-4

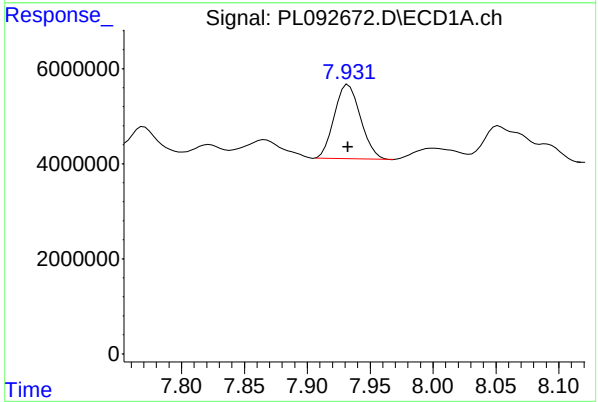
R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 29767251
Conc: 501.14 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
ICVPL102824TOX



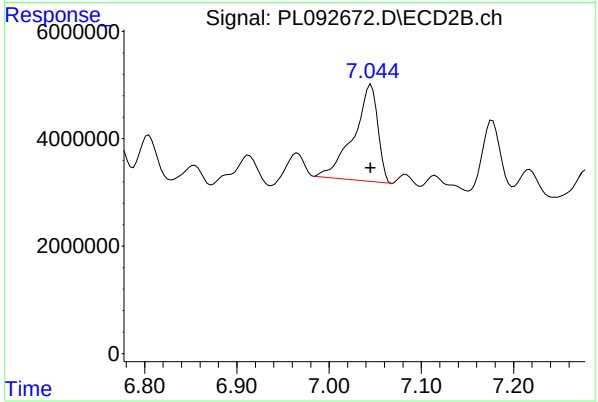

#5 Toxaphene-4

R.T.: 6.732 min
Delta R.T.: 0.000 min
Response: 48553437
Conc: 526.98 ng/ml



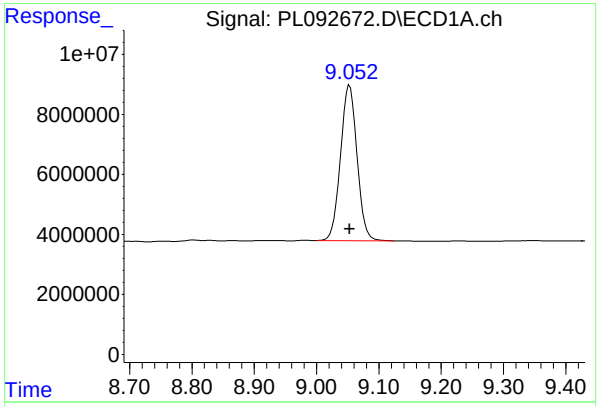

#6 Toxaphene-5

R.T.: 7.933 min
Delta R.T.: 0.000 min
Response: 22590334
Conc: 503.30 ng/ml




#6 Toxaphene-5

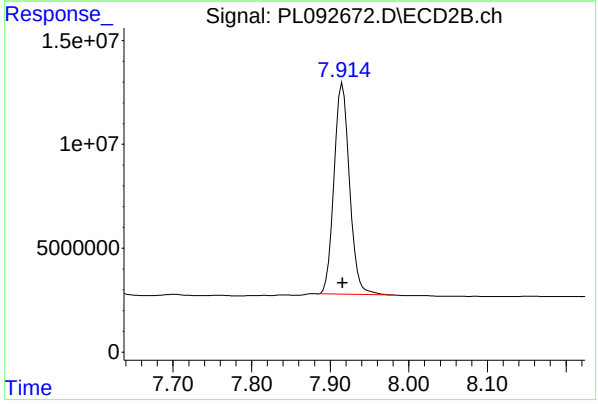
R.T.: 7.046 min
Delta R.T.: 0.000 min
Response: 32781409
Conc: 499.97 ng/ml




#7 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: 0.000 mi
Response: 95483844
Conc: 50.36 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
ICVPL102824TOX




#7 Decachlorobiphenyl

R.T.: 7.916 min
Delta R.T.: 0.000 min
Response: 139141786
Conc: 50.52 ng/ml

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Fax : 908 789 8922

## CALIBRATION VERIFICATION SUMMARY

**Contract:** CHEM02

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

**Continuing Calib Date:** 10/31/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 13:03 **Initial Calibration Time(s):** 16:56 17:50

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Toxaphene-1 | (1) | 6.24 | 6.24 | 6.14 | 6.34 | 0.00 |
| Toxaphene-2 | (2) | 6.45 | 6.44 | 6.34 | 6.54 | -0.01 |
| Toxaphene-3 | (3) | 7.06 | 7.06 | 6.96 | 7.16 | 0.00 |
| Toxaphene-4 | (4) | 7.16 | 7.15 | 7.05 | 7.25 | -0.01 |
| Toxaphene-5 | (5) | 7.94 | 7.93 | 7.83 | 8.03 | -0.01 |
| Decachlorobiphenyl | | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | | 3.55 | 3.54 | 3.44 | 3.64 | -0.01 |

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Fax : 908 789 8922

## CALIBRATION VERIFICATION SUMMARY

**Contract:** CHEM02

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

**Continuing Calib Date:** 10/31/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 13:03 **Initial Calibration Time(s):** 16:56 17:50

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Toxaphene-1 | (1) | 5.01 | 5.01 | 4.91 | 5.11 | 0.00 |
| Toxaphene-2 | (2) | 5.33 | 5.33 | 5.23 | 5.43 | 0.00 |
| Toxaphene-3 | (3) | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |
| Toxaphene-4 | (4) | 6.74 | 6.73 | 6.63 | 6.83 | -0.01 |
| Toxaphene-5 | (5) | 7.05 | 7.05 | 6.95 | 7.15 | 0.00 |
| Decachlorobiphenyl | | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CHEM02

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

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/31/2024

**Lab Sample No.:** PTOXCCC500 **Data File :** PL092756.D **Time Analyzed:** 13:03

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.060 | 8.954 | 9.154 | 47.840 | 50.000 | -4.3 |
| Tetrachloro-m-xylene | 3.545 | 3.440 | 3.640 | 49.410 | 50.000 | -1.2 |
| Toxaphene-1 | 6.241 | 6.137 | 6.337 | 522.800 | 500.000 | 4.6 |
| Toxaphene-2 | 6.446 | 6.341 | 6.541 | 582.480 | 500.000 | 16.5 |
| Toxaphene-3 | 7.064 | 6.958 | 7.158 | 472.340 | 500.000 | -5.5 |
| Toxaphene-4 | 7.155 | 7.049 | 7.249 | 470.160 | 500.000 | -6.0 |
| Toxaphene-5 | 7.940 | 7.834 | 8.034 | 463.440 | 500.000 | -7.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CHEM02

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

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 10/31/2024

**Lab Sample No.:** PTOXCCC500 **Data File :** PL092756.D **Time Analyzed:** 13:03

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.918 | 7.816 | 8.016 | 48.610 | 50.000 | -2.8 |
| Tetrachloro-m-xylene | 2.779 | 2.678 | 2.878 | 50.310 | 50.000 | 0.6 |
| Toxaphene-1 | 5.008 | 4.907 | 5.107 | 598.250 | 500.000 | 19.7 |
| Toxaphene-2 | 5.333 | 5.232 | 5.432 | 511.660 | 500.000 | 2.3 |
| Toxaphene-3 | 6.607 | 6.505 | 6.705 | 467.970 | 500.000 | -6.4 |
| Toxaphene-4 | 6.735 | 6.633 | 6.833 | 502.400 | 500.000 | 0.5 |
| Toxaphene-5 | 7.048 | 6.945 | 7.145 | 474.260 | 500.000 | -5.1 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092756.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 13:03
Operator : AR\AJ
Sample : PTOXCCC500
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:17:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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 | | | | | | |
| 1) SA | Tetrachlo... | 3.545 | 2.779 | 118.5E6 | 135.2E6 | 49.408 | 50.314 |
| 7) SA | Decachlor... | 9.060 | 7.918 | 90709584 | 133.9E6 | 47.838 | 48.605 |
| | Target Compounds | | | | | | |
| 2) | Toxaphene-1 | 6.241 | 5.008 | 11545520 | 11376349 | 522.803 | 598.251 |
| 3) | Toxaphene-2 | 6.446 | 5.333 | 7898252 | 10067638 | 582.476 | 511.657 |
| 4) | Toxaphene-3 | 7.064 | 6.607 | 36698163 | 31840306 | 472.336 | 467.971 |
| 5) | Toxaphene-4 | 7.155 | 6.735 | 27926861 | 46288828 | 470.158 | 502.399 |
| 6) | Toxaphene-5 | 7.940 | 7.048 | 20801123 | 31095870 | 463.436 | 474.260 |

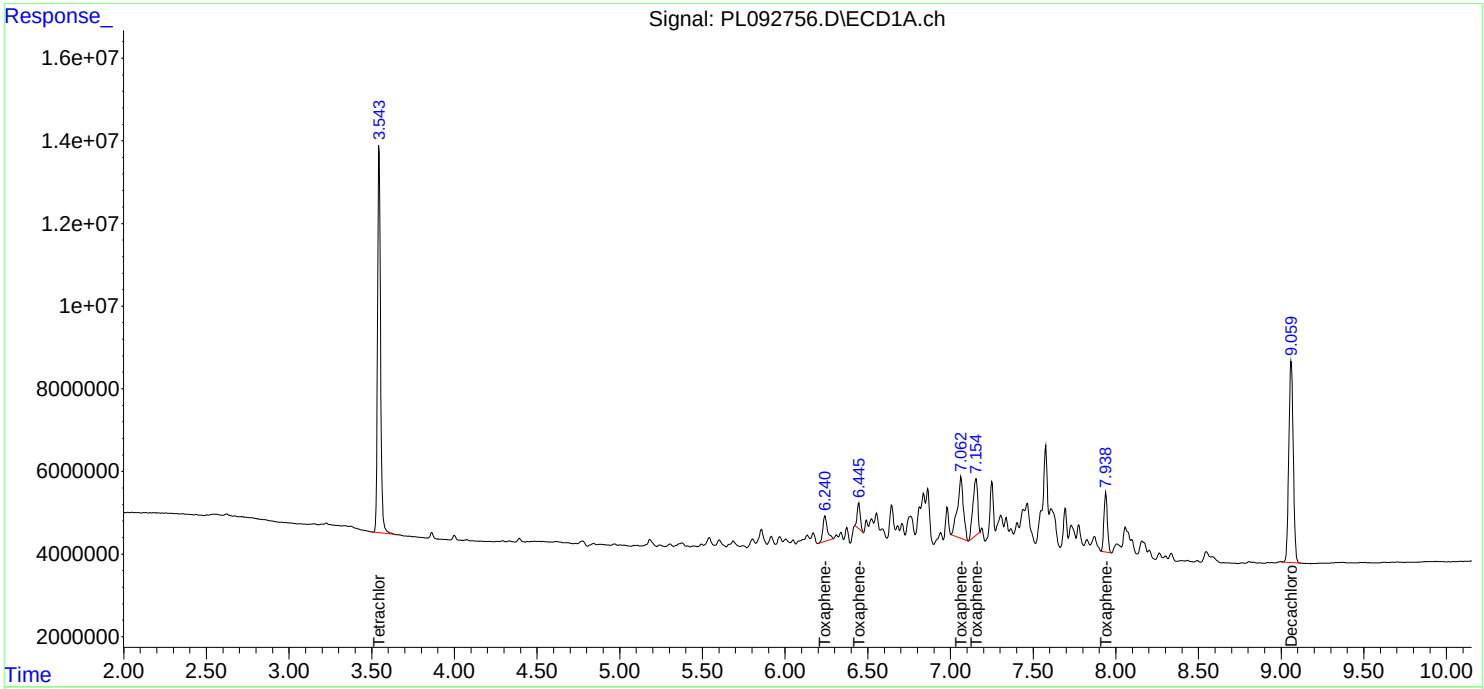
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

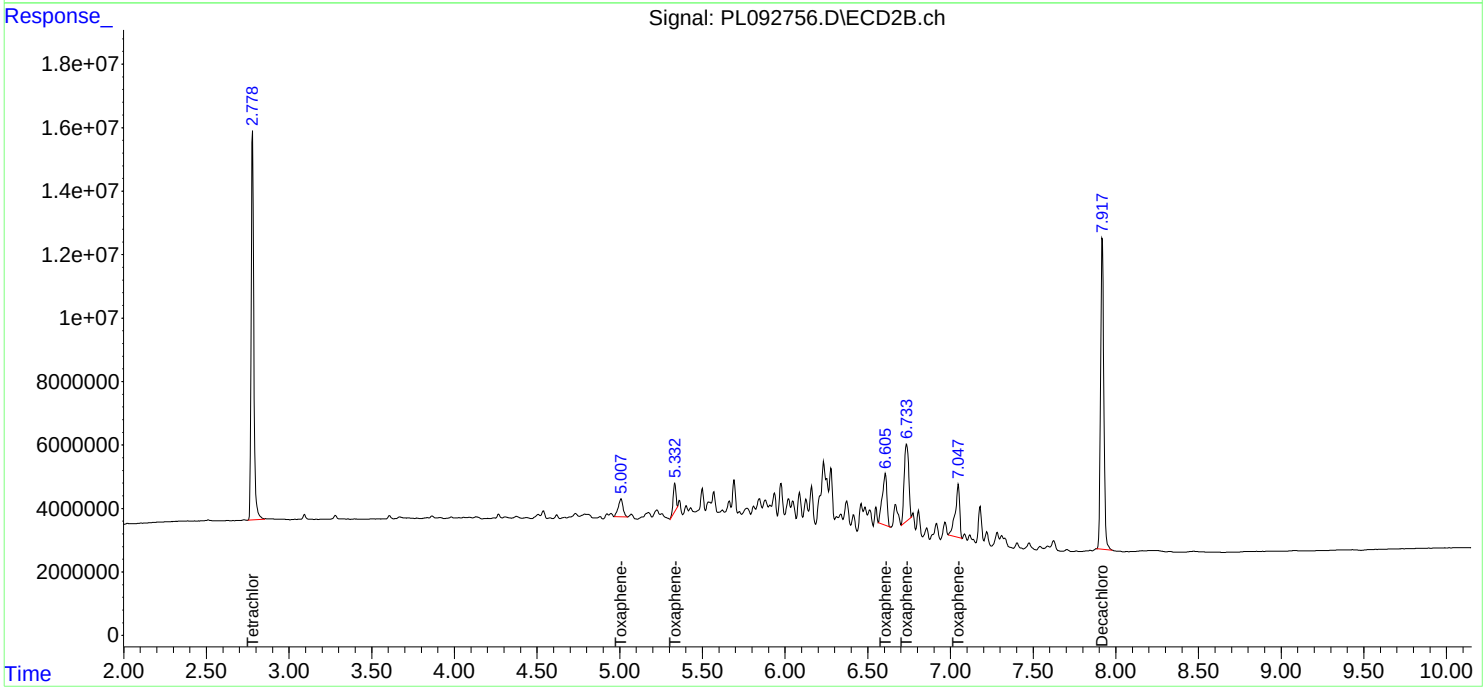
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092756.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 13:03
Operator : AR\AJ
Sample : PTOXCCC500
Misc :
ALS Vial : 6 Sample Multiplier: 1

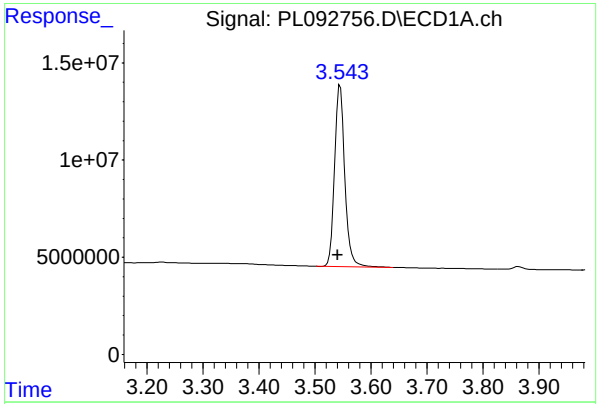
**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:17:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



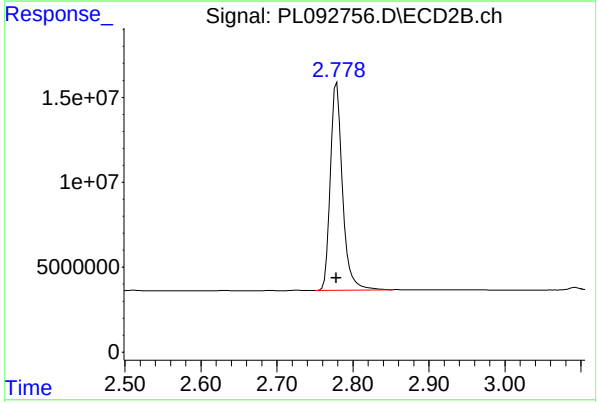






#1 Tetrachloro-m-xylene

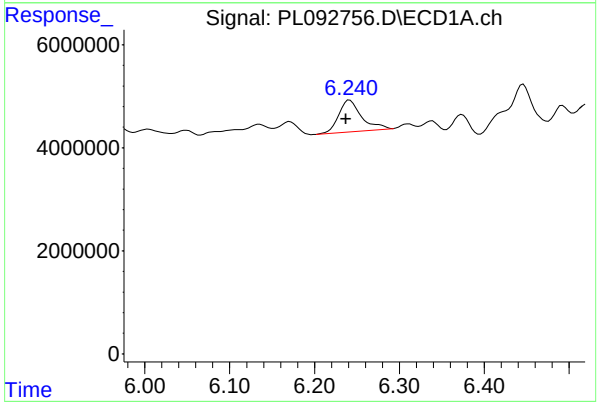
R.T.: 3.545 min
Delta R.T.: 0.005 min
Response: 118485077
Conc: 49.41 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500



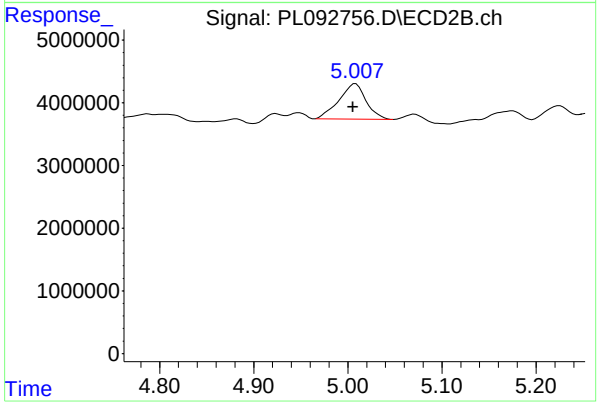

#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.000 min
Response: 135192289
Conc: 50.31 ng/ml



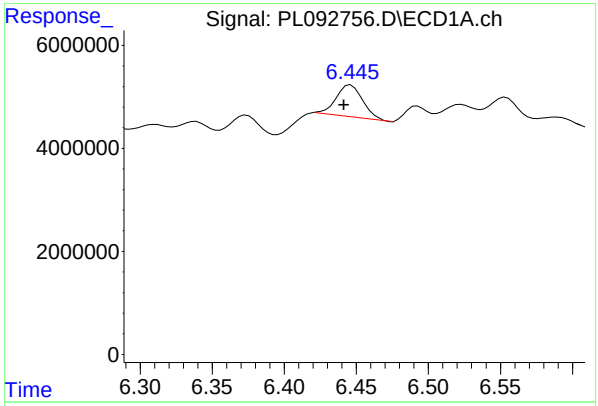

#2 Toxaphene-1

R.T.: 6.241 min
Delta R.T.: 0.005 min
Response: 11545520
Conc: 522.80 ng/ml




#2 Toxaphene-1

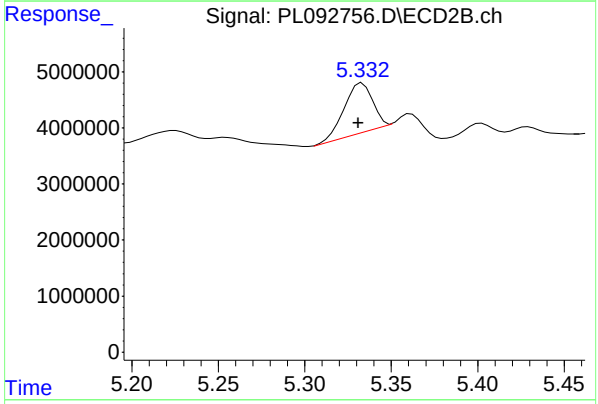
R.T.: 5.008 min
Delta R.T.: 0.003 min
Response: 11376349
Conc: 598.25 ng/ml




#3 Toxaphene-2

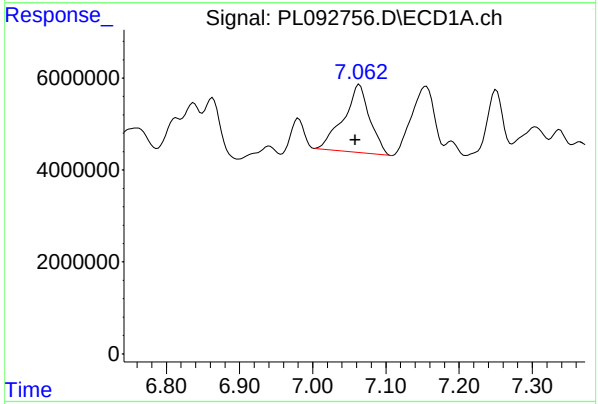
R.T.: 6.446 min
Delta R.T.: 0.005 min
Response: 7898252
Conc: 582.48 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500



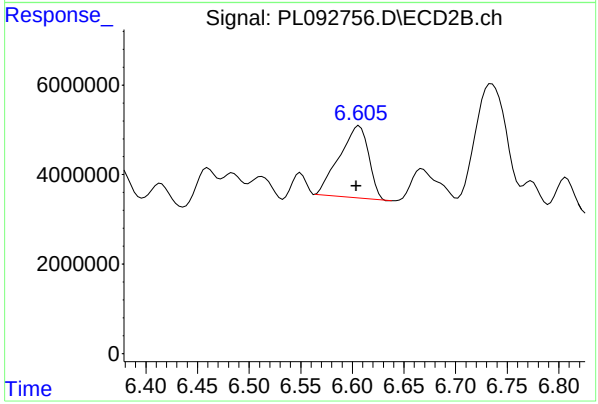

#3 Toxaphene-2

R.T.: 5.333 min
Delta R.T.: 0.002 min
Response: 10067638
Conc: 511.66 ng/ml



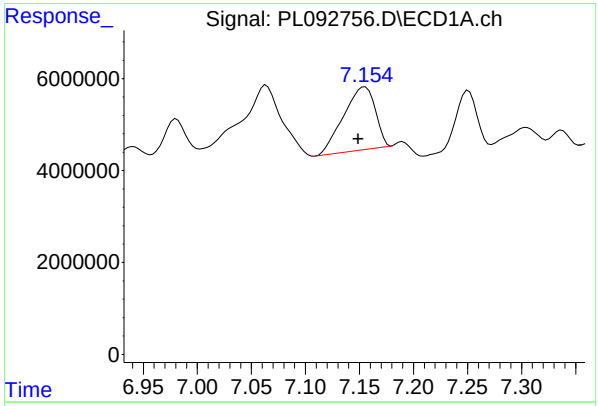

#4 Toxaphene-3

R.T.: 7.064 min
Delta R.T.: 0.006 min
Response: 36698163
Conc: 472.34 ng/ml




#4 Toxaphene-3

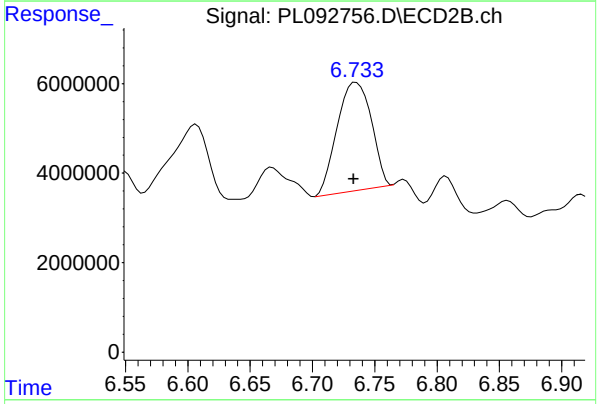
R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 31840306
Conc: 467.97 ng/ml




#5 Toxaphene-4

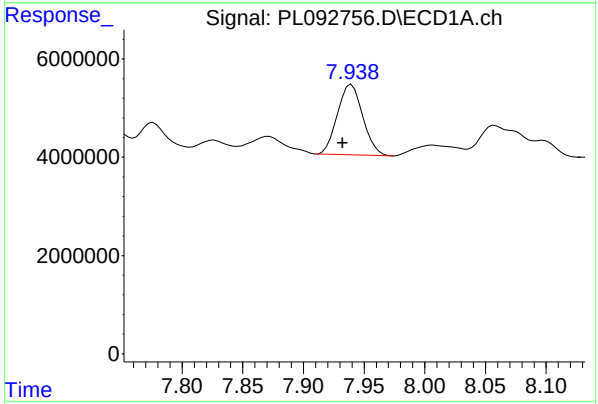
R.T.: 7.155 min
Delta R.T.: 0.006 min
Response: 27926861
Conc: 470.16 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500



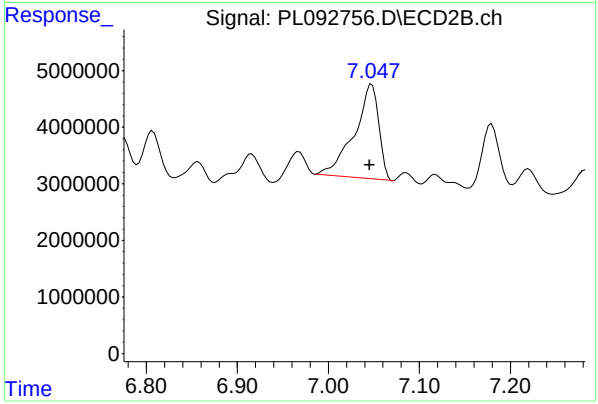

#5 Toxaphene-4

R.T.: 6.735 min
Delta R.T.: 0.002 min
Response: 46288828
Conc: 502.40 ng/ml



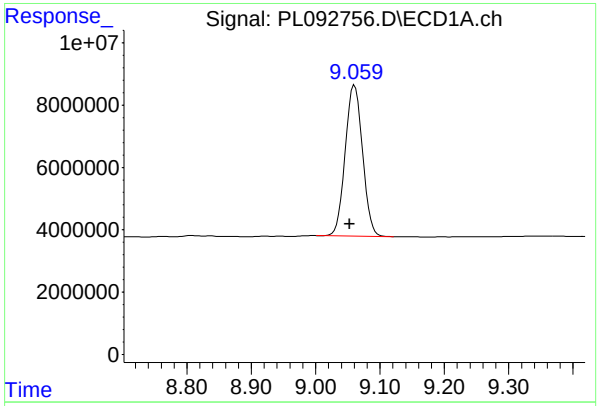

#6 Toxaphene-5

R.T.: 7.940 min
Delta R.T.: 0.007 min
Response: 20801123
Conc: 463.44 ng/ml




#6 Toxaphene-5

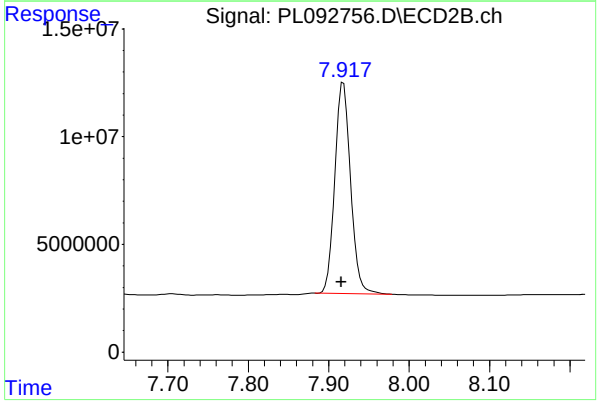
R.T.: 7.048 min
Delta R.T.: 0.003 min
Response: 31095870
Conc: 474.26 ng/ml




#7 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.007 mi
Response: 90709584
Conc: 47.84 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500




#7 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.002 min
Response: 133870366
Conc: 48.61 ng/ml

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CHEM02

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

**Continuing Calib Date:** 10/31/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 18:47 **Initial Calibration Time(s):** 16:56 17:50

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Toxaphene-1 | (1) | 6.24 | 6.24 | 6.14 | 6.34 | 0.00 |
| Toxaphene-2 | (2) | 6.44 | 6.44 | 6.34 | 6.54 | 0.00 |
| Toxaphene-3 | (3) | 7.06 | 7.06 | 6.96 | 7.16 | 0.00 |
| Toxaphene-4 | (4) | 7.15 | 7.15 | 7.05 | 7.25 | 0.00 |
| Toxaphene-5 | (5) | 7.94 | 7.93 | 7.83 | 8.03 | -0.01 |
| Decachlorobiphenyl | | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CHEM02

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

**Continuing Calib Date:** 10/31/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 18:47 **Initial Calibration Time(s):** 16:56 17:50

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Toxaphene-1 | (1) | 5.01 | 5.01 | 4.91 | 5.11 | 0.00 |
| Toxaphene-2 | (2) | 5.33 | 5.33 | 5.23 | 5.43 | 0.00 |
| Toxaphene-3 | (3) | 6.61 | 6.61 | 6.51 | 6.71 | 0.00 |
| Toxaphene-4 | (4) | 6.73 | 6.73 | 6.63 | 6.83 | 0.00 |
| Toxaphene-5 | (5) | 7.05 | 7.05 | 6.95 | 7.15 | 0.00 |
| Decachlorobiphenyl | | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CHEM02

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

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/31/2024

**Lab Sample No.:** PTOXCCC500 **Data File :** PL092770.D **Time Analyzed:** 18:47

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.059 | 8.954 | 9.154 | 49.030 | 50.000 | -1.9 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 49.910 | 50.000 | -0.2 |
| Toxaphene-1 | 6.239 | 6.137 | 6.337 | 545.710 | 500.000 | 9.1 |
| Toxaphene-2 | 6.444 | 6.341 | 6.541 | 562.140 | 500.000 | 12.4 |
| Toxaphene-3 | 7.062 | 6.958 | 7.158 | 475.650 | 500.000 | -4.9 |
| Toxaphene-4 | 7.152 | 7.049 | 7.249 | 481.670 | 500.000 | -3.7 |
| Toxaphene-5 | 7.937 | 7.834 | 8.034 | 468.130 | 500.000 | -6.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** CHEM02

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

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 10/31/2024

**Lab Sample No.:** PTOXCCC500 **Data File :** PL092770.D **Time Analyzed:** 18:47

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.918 | 7.816 | 8.016 | 49.790 | 50.000 | -0.4 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 50.570 | 50.000 | 1.1 |
| Toxaphene-1 | 5.007 | 4.907 | 5.107 | 590.520 | 500.000 | 18.1 |
| Toxaphene-2 | 5.333 | 5.232 | 5.432 | 519.450 | 500.000 | 3.9 |
| Toxaphene-3 | 6.606 | 6.505 | 6.705 | 470.010 | 500.000 | -6.0 |
| Toxaphene-4 | 6.734 | 6.633 | 6.833 | 497.860 | 500.000 | -0.4 |
| Toxaphene-5 | 7.047 | 6.945 | 7.145 | 478.080 | 500.000 | -4.4 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092770.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 18:47
Operator : AR\AJ
Sample : PTOXCCC500
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:20:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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 | | | | | | |
| 1) SA | Tetrachlo... | 3.542 | 2.778 | 119.7E6 | 135.9E6 | 49.910 | 50.569 |
| 7) SA | Decachlor... | 9.059 | 7.918 | 92976962 | 137.1E6 | 49.034 | 49.791 |
| | Target Compounds | | | | | | |
| 2) | Toxaphene-1 | 6.239 | 5.007 | 12051421 | 11229284 | 545.711 | 590.517 |
| 3) | Toxaphene-2 | 6.444 | 5.333 | 7622447 | 10220960 | 562.136 | 519.449 |
| 4) | Toxaphene-3 | 7.062 | 6.606 | 36955920 | 31978877 | 475.654 | 470.007 |
| 5) | Toxaphene-4 | 7.152 | 6.734 | 28610434 | 45870246 | 481.666 | 497.856 |
| 6) | Toxaphene-5 | 7.937 | 7.047 | 21011623 | 31346415 | 468.126 | 478.081 |

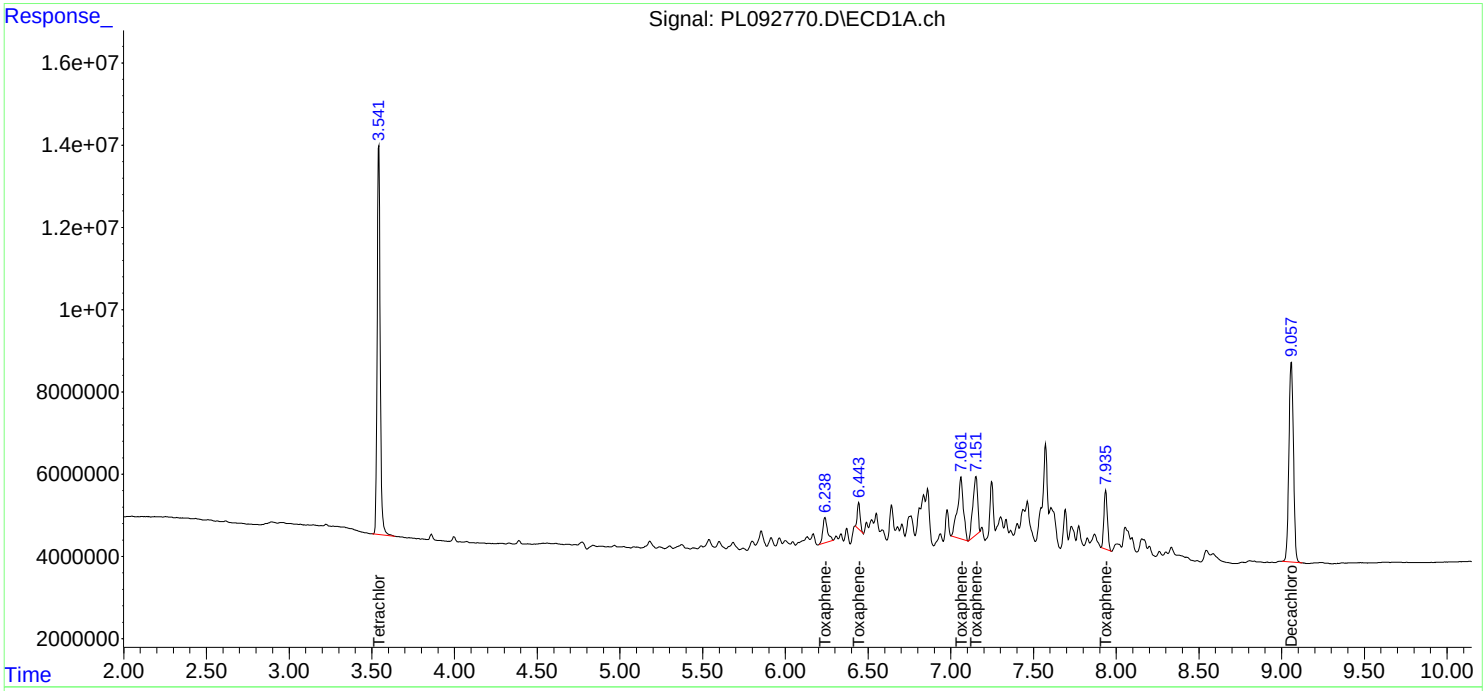
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

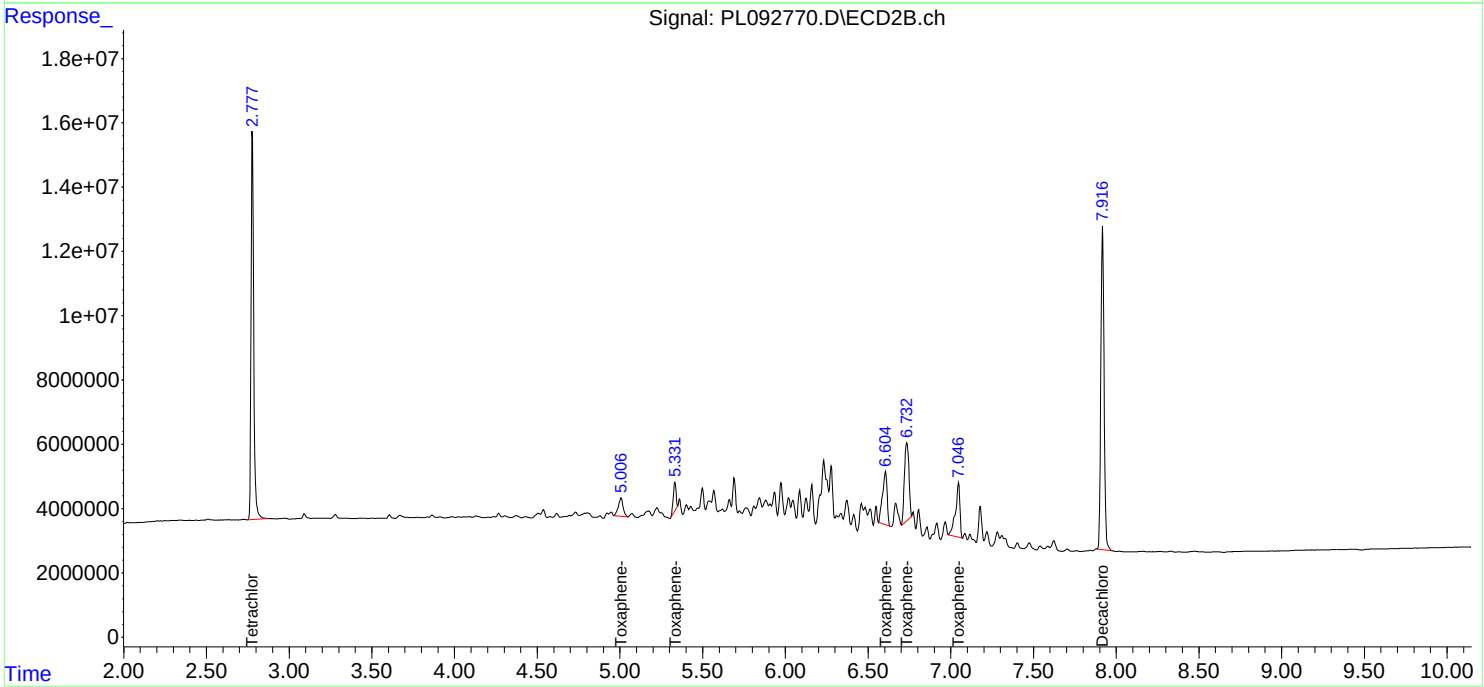
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092770.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 18:47
Operator : AR\AJ
Sample : PTOXCCC500
Misc :
ALS Vial : 6 Sample Multiplier: 1

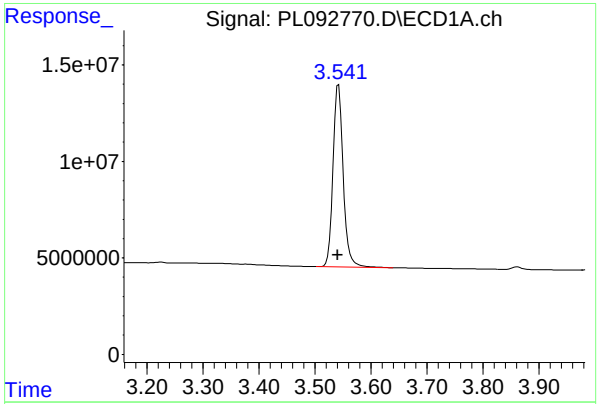
**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:20:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



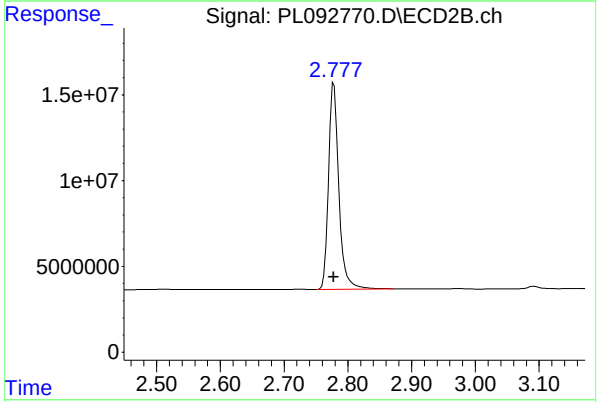






#1 Tetrachloro-m-xylene

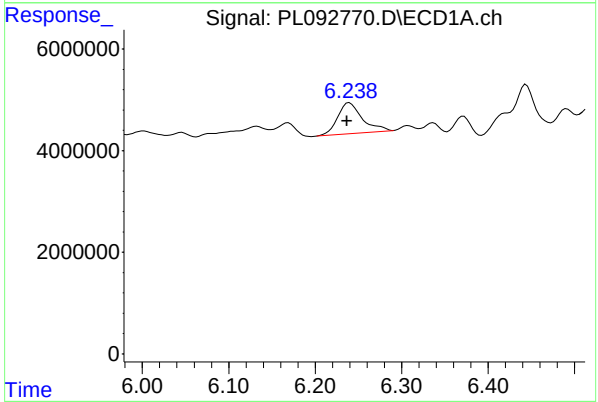
R.T.: 3.542 min
Delta R.T.: 0.002 min
Response: 119688579
Conc: 49.91 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500



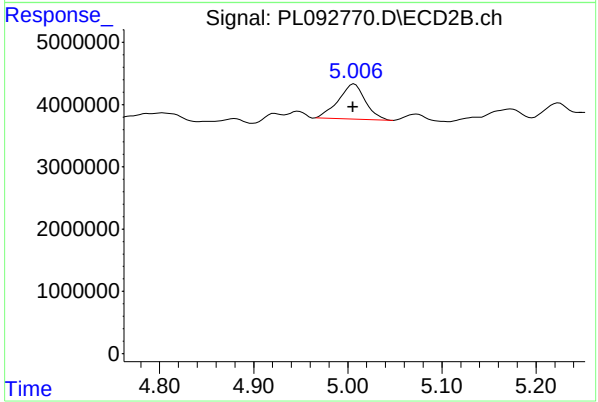

#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 135876501
Conc: 50.57 ng/ml



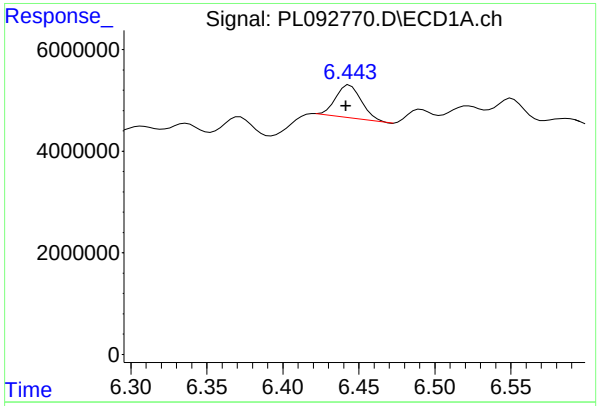

#2 Toxaphene-1

R.T.: 6.239 min
Delta R.T.: 0.003 min
Response: 12051421
Conc: 545.71 ng/ml




#2 Toxaphene-1

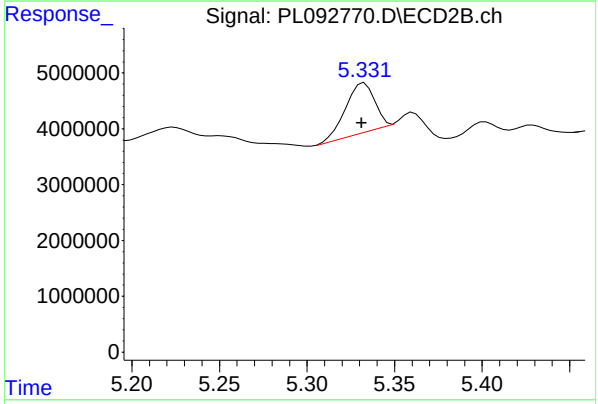
R.T.: 5.007 min
Delta R.T.: 0.002 min
Response: 11229284
Conc: 590.52 ng/ml




#3 Toxaphene-2

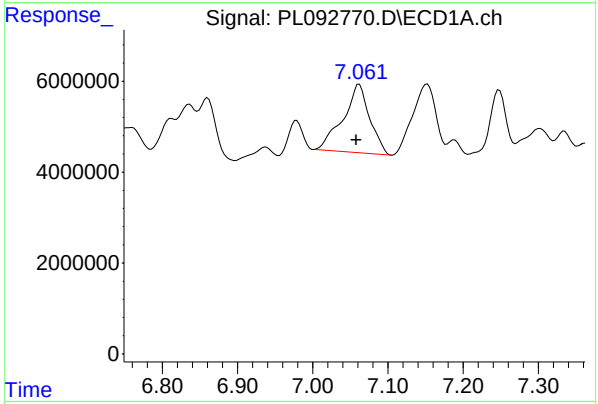
R.T.: 6.444 min
Delta R.T.: 0.003 min
Response: 7622447
Conc: 562.14 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500



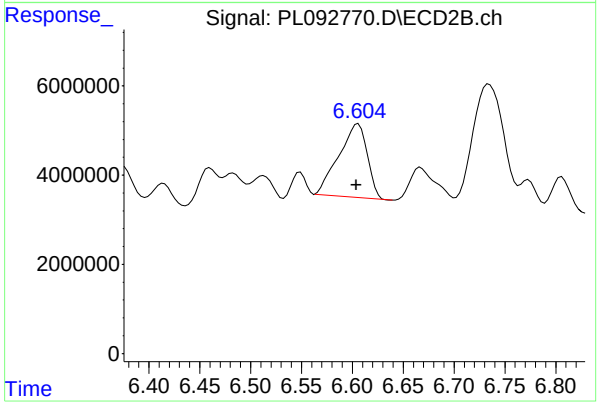

#3 Toxaphene-2

R.T.: 5.333 min
Delta R.T.: 0.002 min
Response: 10220960
Conc: 519.45 ng/ml



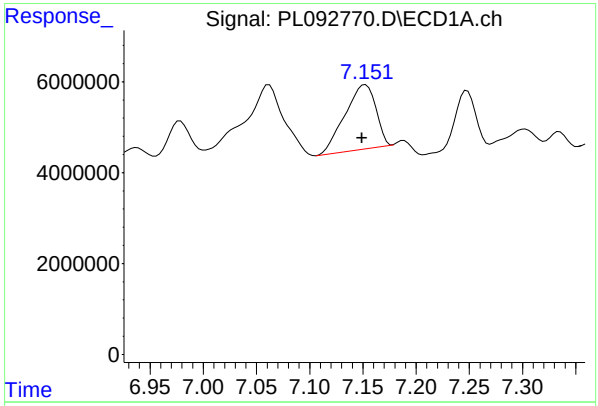

#4 Toxaphene-3

R.T.: 7.062 min
Delta R.T.: 0.004 min
Response: 36955920
Conc: 475.65 ng/ml




#4 Toxaphene-3

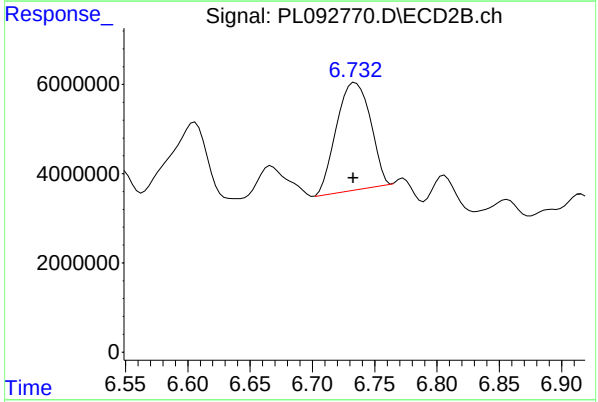
R.T.: 6.606 min
Delta R.T.: 0.002 min
Response: 31978877
Conc: 470.01 ng/ml




#5 Toxaphene-4

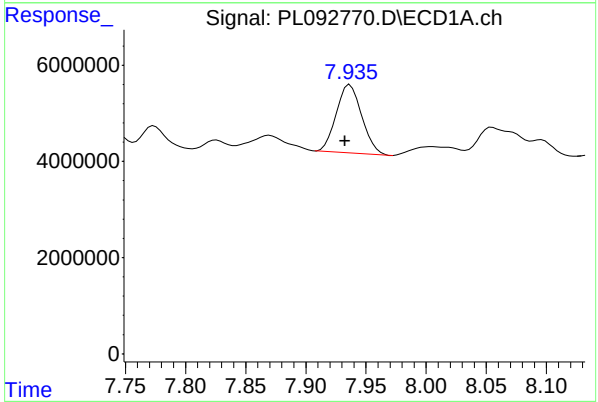
R.T.: 7.152 min
Delta R.T.: 0.004 min
Response: 28610434
Conc: 481.67 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500



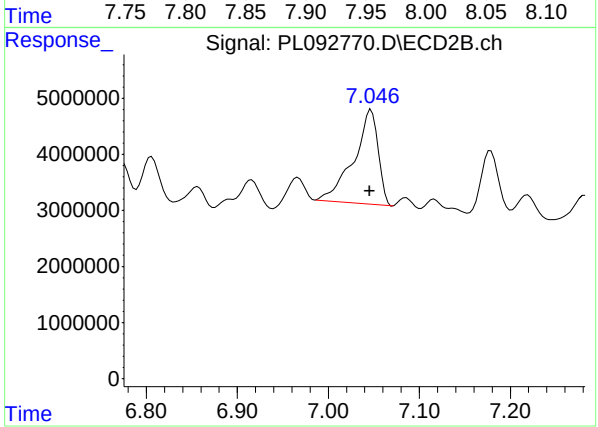

#5 Toxaphene-4

R.T.: 6.734 min
Delta R.T.: 0.001 min
Response: 45870246
Conc: 497.86 ng/ml



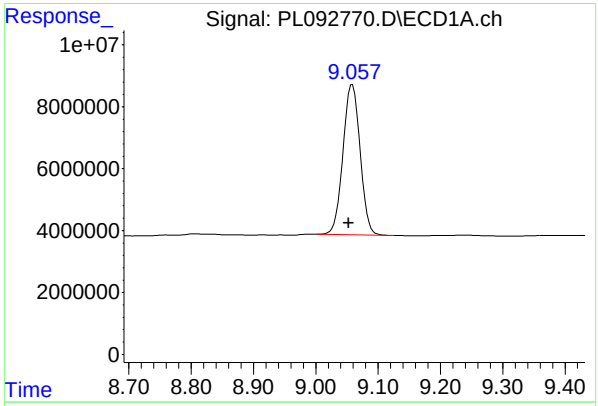

#6 Toxaphene-5

R.T.: 7.937 min
Delta R.T.: 0.004 min
Response: 21011623
Conc: 468.13 ng/ml




#6 Toxaphene-5

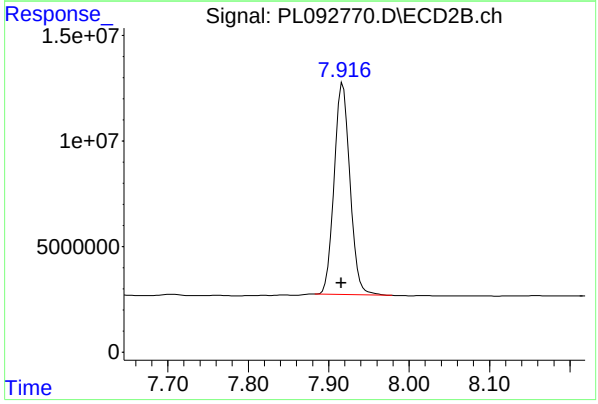
R.T.: 7.047 min
Delta R.T.: 0.002 min
Response: 31346415
Conc: 478.08 ng/ml




#7 Decachlorobiphenyl

R.T.: 9.059 min
Delta R.T.: 0.006 min
Response: 92976962
Conc: 49.03 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PTOXCCC500




#7 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.002 min
Response: 137136398
Conc: 49.79 ng/ml

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# Analytical Sequence

**Client:** Chemtech Consulting Group **SDG No.:** P4495

**Project:** NJ Soil PT **Instrument ID:** ECD_L

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

**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 | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/28/2024 | 13:55 | PL092652.D | 9.05 | 3.54 |
| PTOXICC1000 | PTOXICC1000 | 10/28/2024 | 16:56 | PL092665.D | 9.05 | 3.54 |
| PTOXICC750 | PTOXICC750 | 10/28/2024 | 17:10 | PL092666.D | 9.05 | 3.54 |
| PTOXICC500 | PTOXICC500 | 10/28/2024 | 17:23 | PL092667.D | 9.05 | 3.54 |
| PTOXICC250 | PTOXICC250 | 10/28/2024 | 17:37 | PL092668.D | 9.05 | 3.54 |
| PTOXICC100 | PTOXICC100 | 10/28/2024 | 17:50 | PL092669.D | 9.05 | 3.54 |
| I.BLK | I.BLK | 10/31/2024 | 11:15 | PL092752.D | 9.06 | 3.54 |
| PTOXCCC500 | PTOXCCC500 | 10/31/2024 | 13:03 | PL092756.D | 9.06 | 3.55 |
| PB164400BL | PB164400BL | 10/31/2024 | 15:11 | PL092763.D | 9.07 | 3.55 |
| PB164400BS | PB164400BS | 10/31/2024 | 16:23 | PL092764.D | 9.07 | 3.55 |
| PT-TXP-SOIL | P4495-22 | 10/31/2024 | 16:36 | PL092765.D | 9.06 | 3.54 |
| PT-TXP-SOILDL | P4495-22DL | 10/31/2024 | 17:52 | PL092766.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 10/31/2024 | 18:06 | PL092767.D | 9.06 | 3.54 |
| PTOXCCC500 | PTOXCCC500 | 10/31/2024 | 18:47 | PL092770.D | 9.06 | 3.54 |

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# Analytical Sequence

**Client:** Chemtech Consulting Group **SDG No.:** P4495

**Project:** NJ Soil PT **Instrument ID:** ECD_L

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

**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 | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/28/2024 | 13:55 | PL092652.D | 7.92 | 2.78 |
| PTOXICC1000 | PTOXICC1000 | 10/28/2024 | 16:56 | PL092665.D | 7.92 | 2.78 |
| PTOXICC750 | PTOXICC750 | 10/28/2024 | 17:10 | PL092666.D | 7.92 | 2.78 |
| PTOXICC500 | PTOXICC500 | 10/28/2024 | 17:23 | PL092667.D | 7.92 | 2.78 |
| PTOXICC250 | PTOXICC250 | 10/28/2024 | 17:37 | PL092668.D | 7.92 | 2.78 |
| PTOXICC100 | PTOXICC100 | 10/28/2024 | 17:50 | PL092669.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 10/31/2024 | 11:15 | PL092752.D | 7.92 | 2.78 |
| PTOXCCC500 | PTOXCCC500 | 10/31/2024 | 13:03 | PL092756.D | 7.92 | 2.78 |
| PB164400BL | PB164400BL | 10/31/2024 | 15:11 | PL092763.D | 7.92 | 2.78 |
| PB164400BS | PB164400BS | 10/31/2024 | 16:23 | PL092764.D | 7.92 | 2.78 |
| PT-TXP-SOIL | P4495-22 | 10/31/2024 | 16:36 | PL092765.D | 7.92 | 2.78 |
| PT-TXP-SOILDL | P4495-22DL | 10/31/2024 | 17:52 | PL092766.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 10/31/2024 | 18:06 | PL092767.D | 7.92 | 2.78 |
| PTOXCCC500 | PTOXCCC500 | 10/31/2024 | 18:47 | PL092770.D | 7.92 | 2.78 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164400BS**

**Contract:** CHEM02

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

**Lab Sample ID:** PB164400BS **Date(s) Analyzed:** 10/31/2024 10/31/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Toxaphene | 1 | 6.97 | 6.92 | 7.02 | 74.4 | 6.1 |
| | 2 | 6.15 | 6.10 | 6.20 | 70.0 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PT-TXP-SOIL**

**Contract:** CHEM02

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

**Lab Sample ID:** P4495-22 **Date(s) Analyzed:** 10/31/2024 10/31/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Toxaphene | 1 | 6.97 | 6.92 | 7.02 | 371 | 15.7 |
| | 2 | 6.14 | 6.09 | 6.19 | 434 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PT-TXP-SOILDL**

**Contract:** CHEM02

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

**Lab Sample ID:** P4495-22DL **Date(s) Analyzed:** 10/31/2024 10/31/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Toxaphene | 1 | 6.97 | 6.92 | 7.02 | 403 | 2.7 |
| | 2 | 6.15 | 6.10 | 6.20 | 414 | |

# 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 Soil PT | Date Received: | |
| Client Sample ID: | PB164400BL | SDG No.: | P4495 |
| Lab Sample ID: | PB164400BL | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PESTICIDE Group3 |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092763.D | 1 | 10/25/24 09:11 | 10/31/24 15:11 | PB164400 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 8001-35-2 | Toxaphene | 5.20 | U | 5.20 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.3 | | 10 - 148 | 111% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.3 | | 10 - 159 | 102% | SPK: 20 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092763.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 15:11
Operator : AR\AJ
Sample : PB164400BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:34:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.547 | 2.779 | 48772738 | 51399324 | 19.905 | 18.889 |
| 28) | SA Decachlor... | 9.065 | 7.921 | 41651161 | 58922720 | 21.642 | 21.589 |
| | Target Compounds | | | | | | |

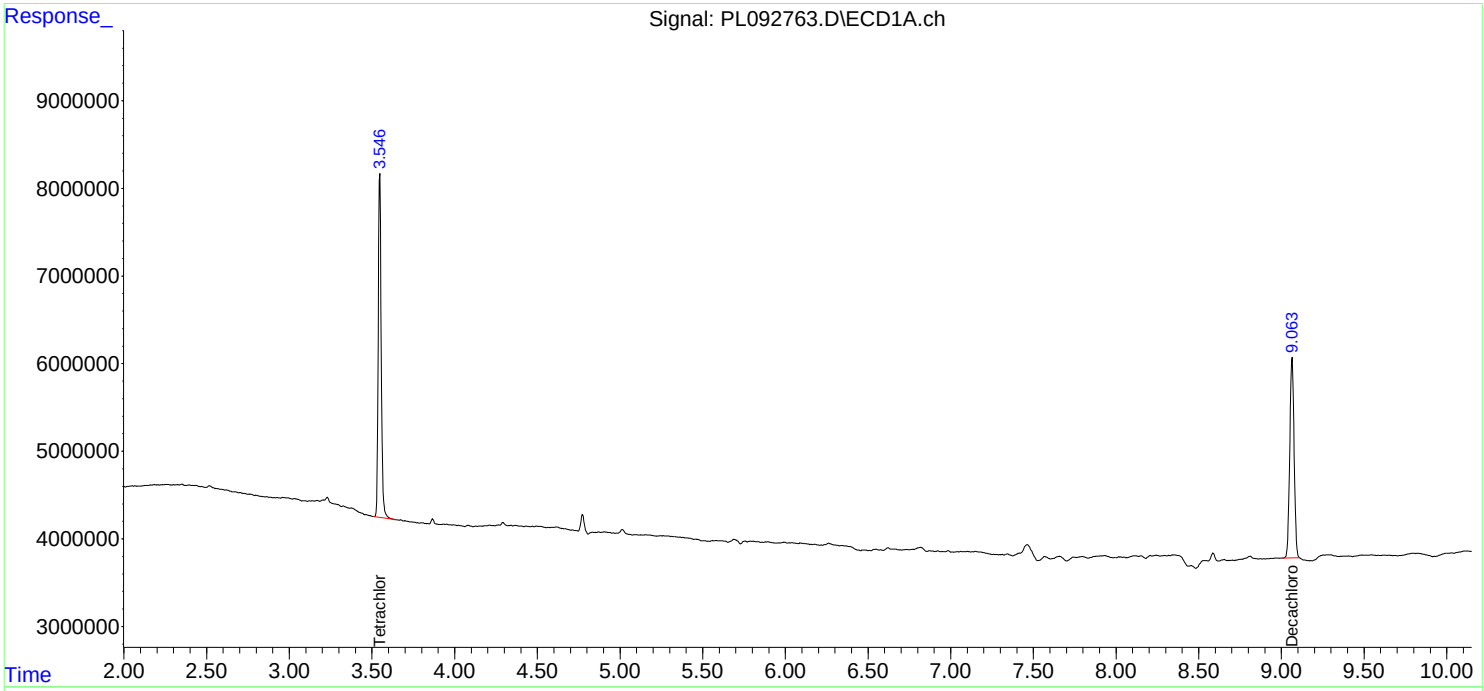
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

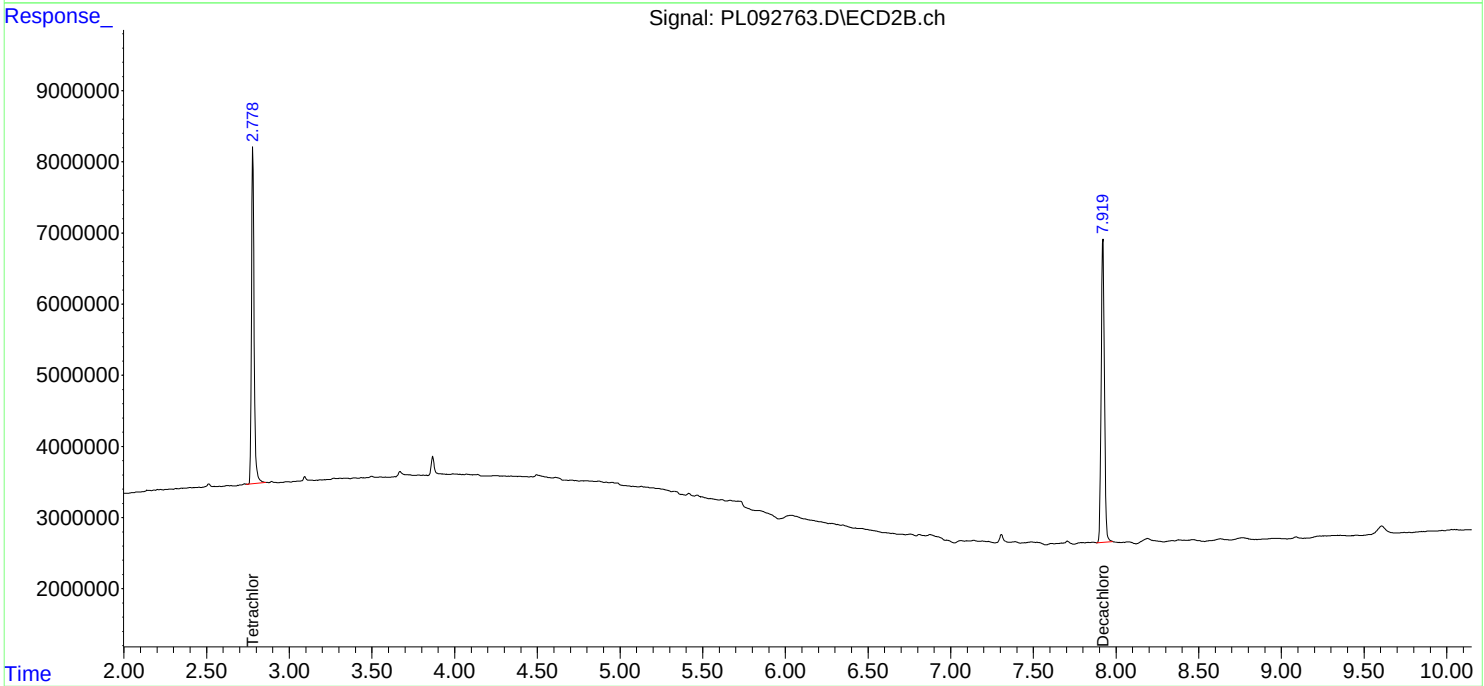
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092763.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 15:11
Operator : AR\AJ
Sample : PB164400BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

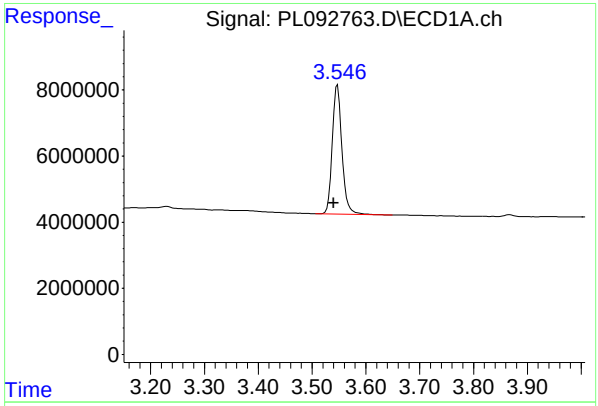
**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:34:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

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



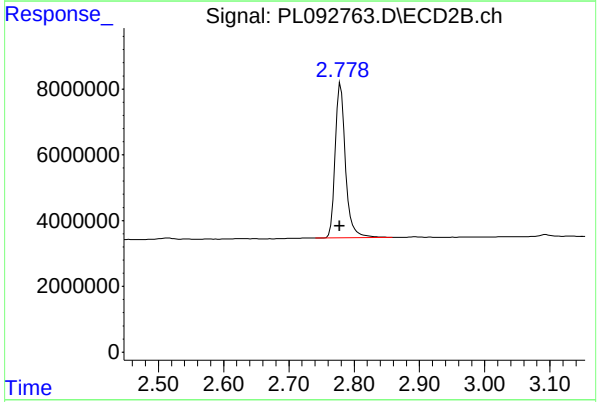






#1 Tetrachloro-m-xylene

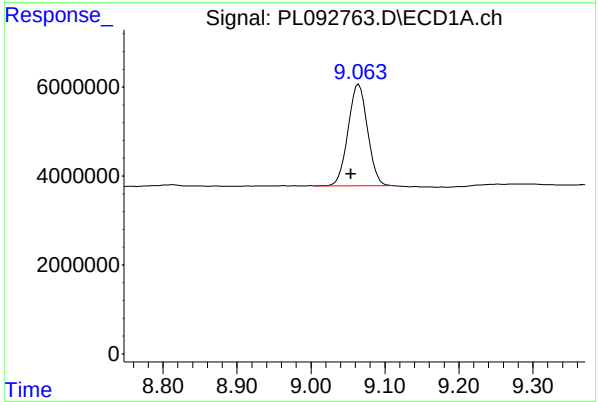
R.T.: 3.547 min
Delta R.T.: 0.007 min
Response: 48772738
Conc: 19.91 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BL



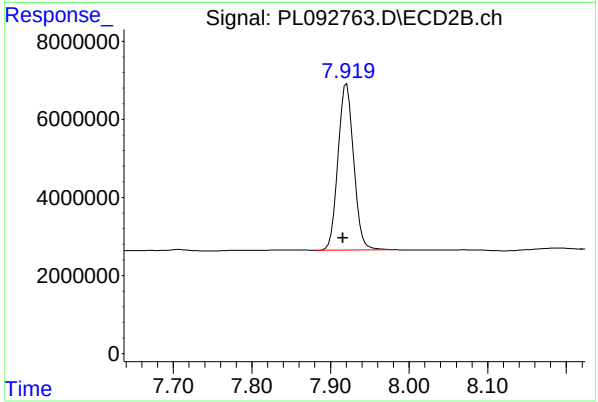

#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.001 min
Response: 51399324
Conc: 18.89 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.065 min
Delta R.T.: 0.011 min
Response: 41651161
Conc: 21.64 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.921 min
Delta R.T.: 0.005 min
Response: 58922720
Conc: 21.59 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: | 10/28/24 |
| Project: | NJ Soil PT | Date Received: | 10/28/24 |
| Client Sample ID: | PIBLK-PL092652.D | SDG No.: | P4495 |
| Lab Sample ID: | I.BLK-PL092652.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PESTICIDE Group3 |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092652.D | 1 | | 10/28/24 | PL102824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.7 | | 43 - 140 | 114% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.6 | | 77 - 126 | 108% | SPK: 20 |

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_L\Data\PL102824\
Data File : PL092652.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:55
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:20:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.539 | 2.777 | 52846066 | 55504223 | 21.568 | 20.397 |
| 28) | SA Decachlor... | 9.052 | 7.915 | 43705517 | 59287776 | 22.709 | 21.723 |
| | Target Compounds | | | | | | |

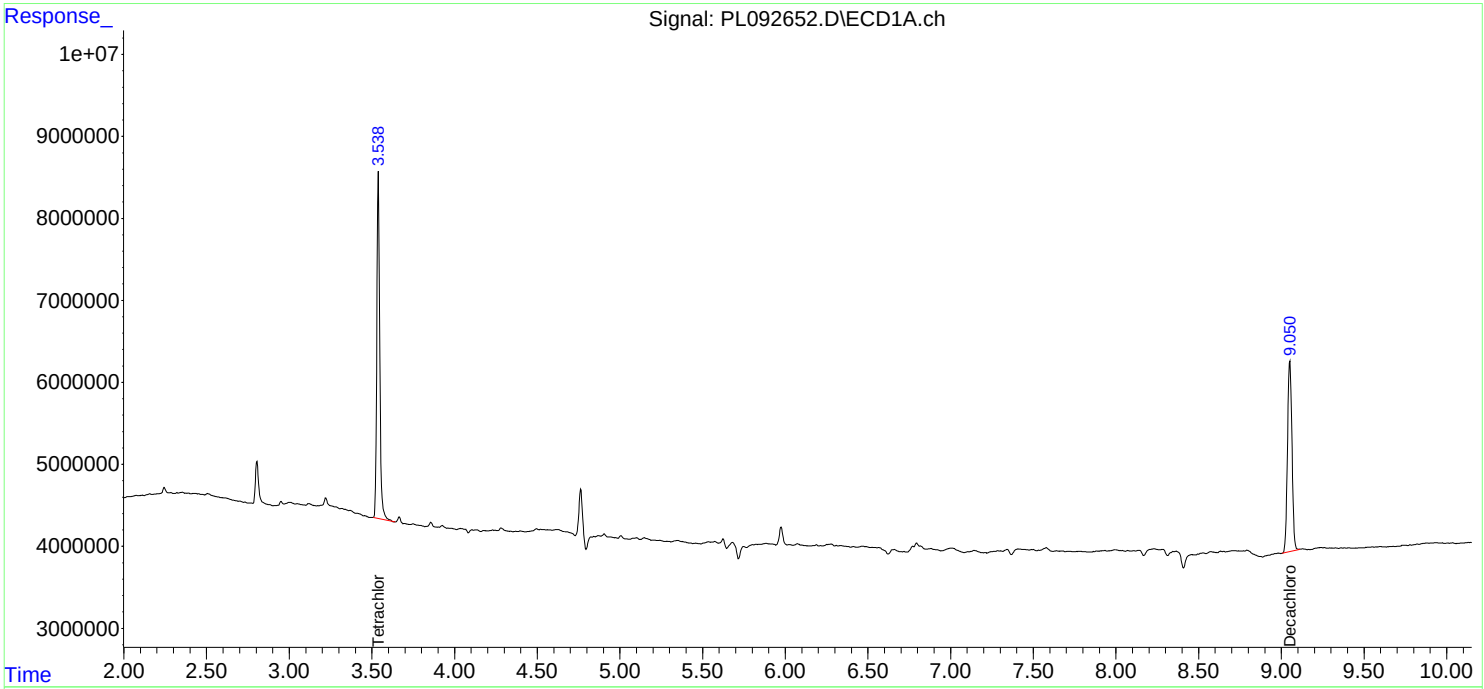
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

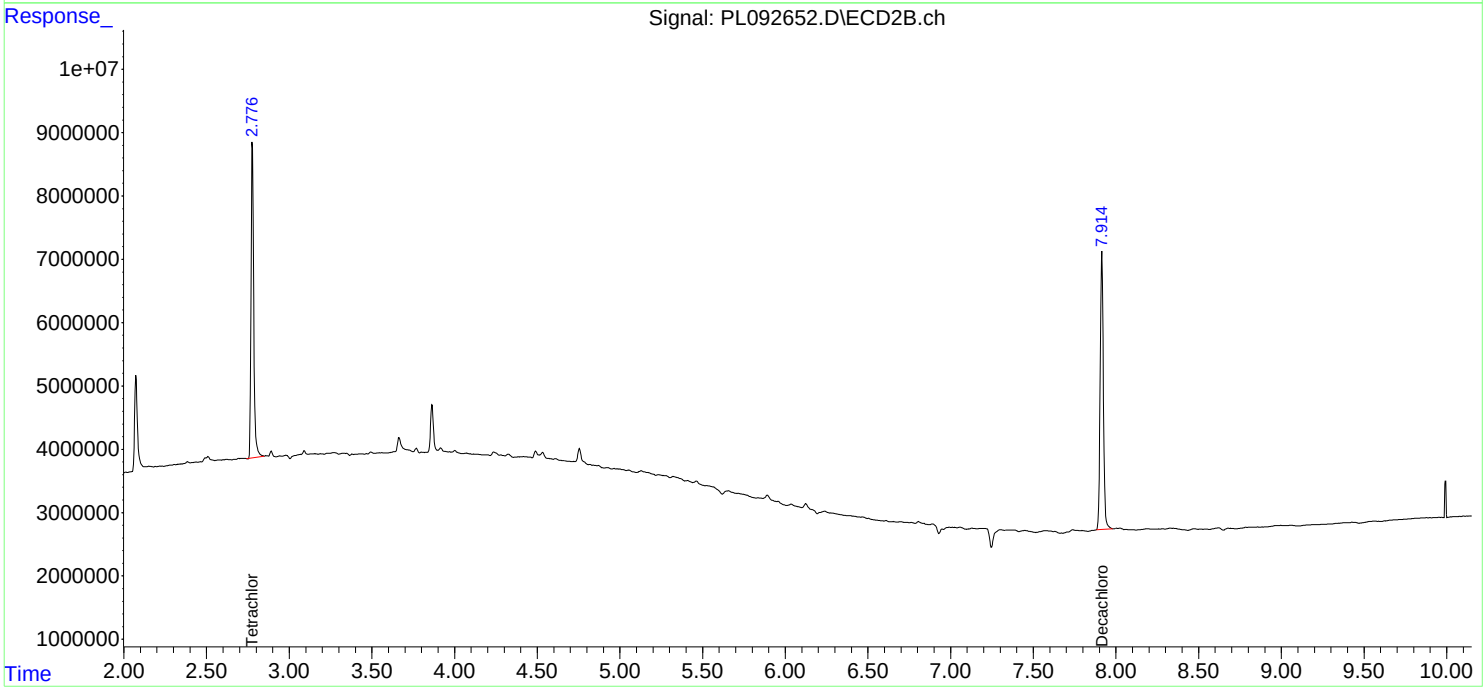
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL102824\
Data File : PL092652.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2024 13:55
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

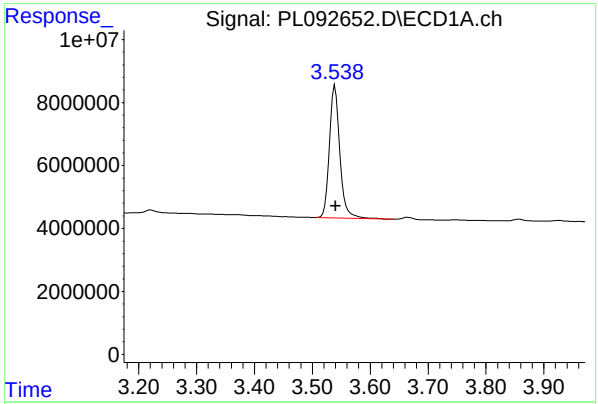
**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 17:20:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 17:19:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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



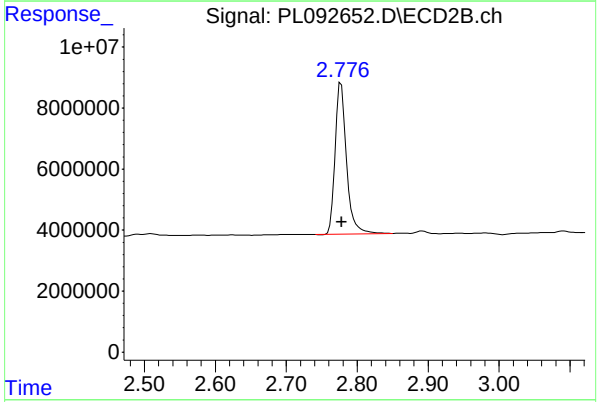






#1 Tetrachloro-m-xylene

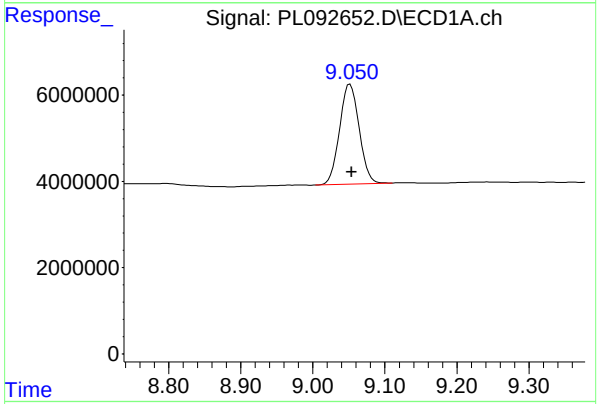
R.T.: 3.539 min
Delta R.T.: 0.000 min
Response: 52846066
Conc: 21.57 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK



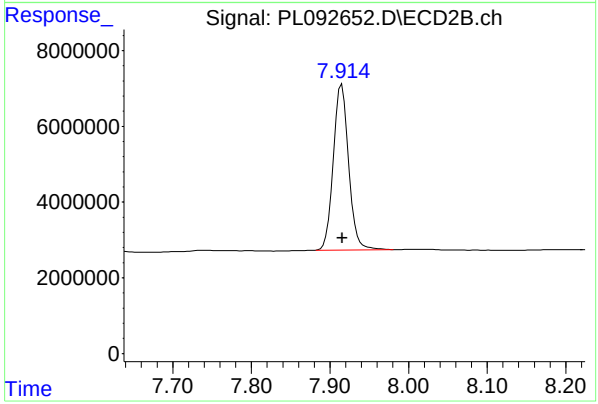

#1 Tetrachloro-m-xylene

R.T.: 2.777 min
Delta R.T.: 0.000 min
Response: 55504223
Conc: 20.40 ng/ml




#28 Decachlorobiphenyl

R.T.: 9.052 min
Delta R.T.: -0.002 min
Response: 43705517
Conc: 22.71 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.915 min
Delta R.T.: 0.000 min
Response: 59287776
Conc: 21.72 ng/ml

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Chemtech Consulting Group | Date Collected: | 10/31/24 |
| Project: | NJ Soil PT | Date Received: | 10/31/24 |
| Client Sample ID: | PIBLK-PL092752.D | SDG No.: | P4495 |
| Lab Sample ID: | I.BLK-PL092752.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PESTICIDE Group3 |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092752.D | 1 | | 10/31/24 | PL103124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.0 | | 43 - 140 | 100% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 77 - 126 | 100% | SPK: 20 |

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_L\Data\PL103124\
Data File : PL092752.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 11:15
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 01:13:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.543 | 2.777 | 49090629 | 51427087 | 20.035 | 18.899m |
| 28) | SA Decachlor... | 9.060 | 7.919 | 38516439 | 52618303 | 20.013 | 19.279 |
| | Target Compounds | | | | | | |

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

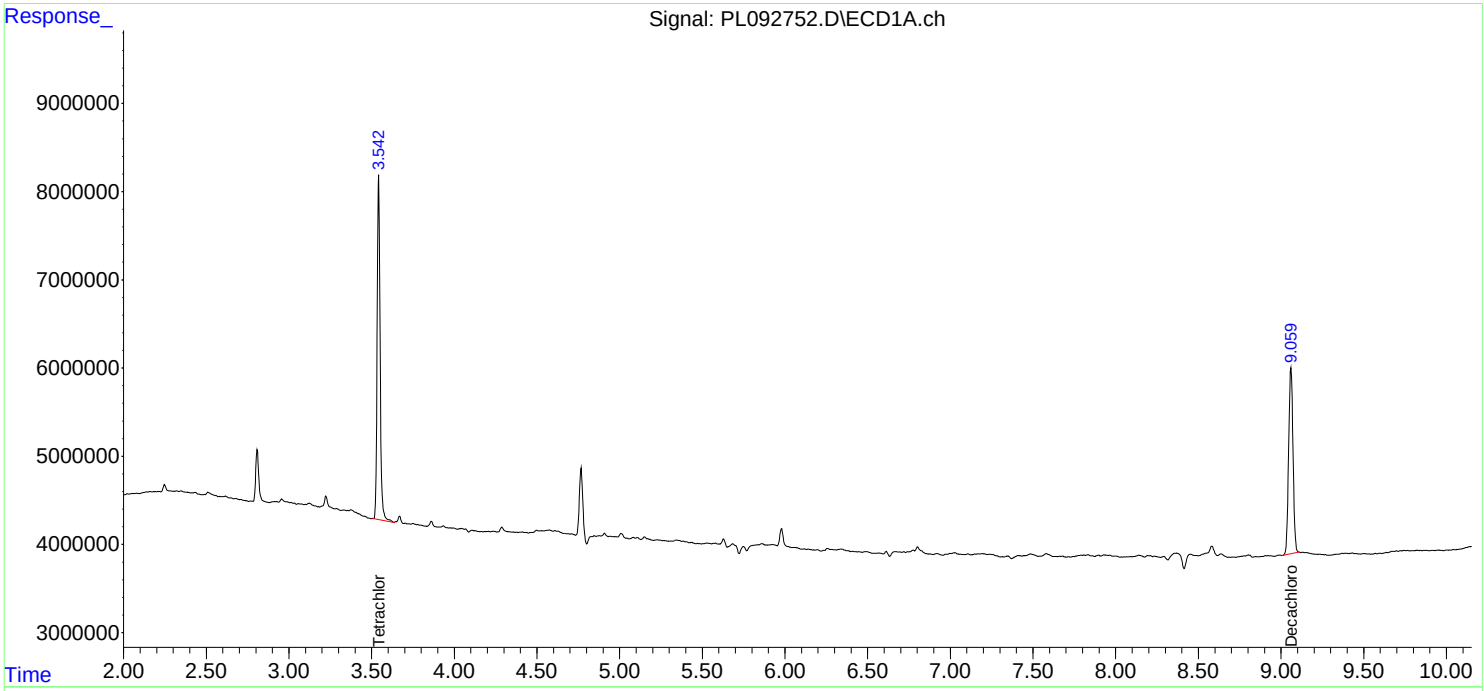
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092752.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 11:15
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

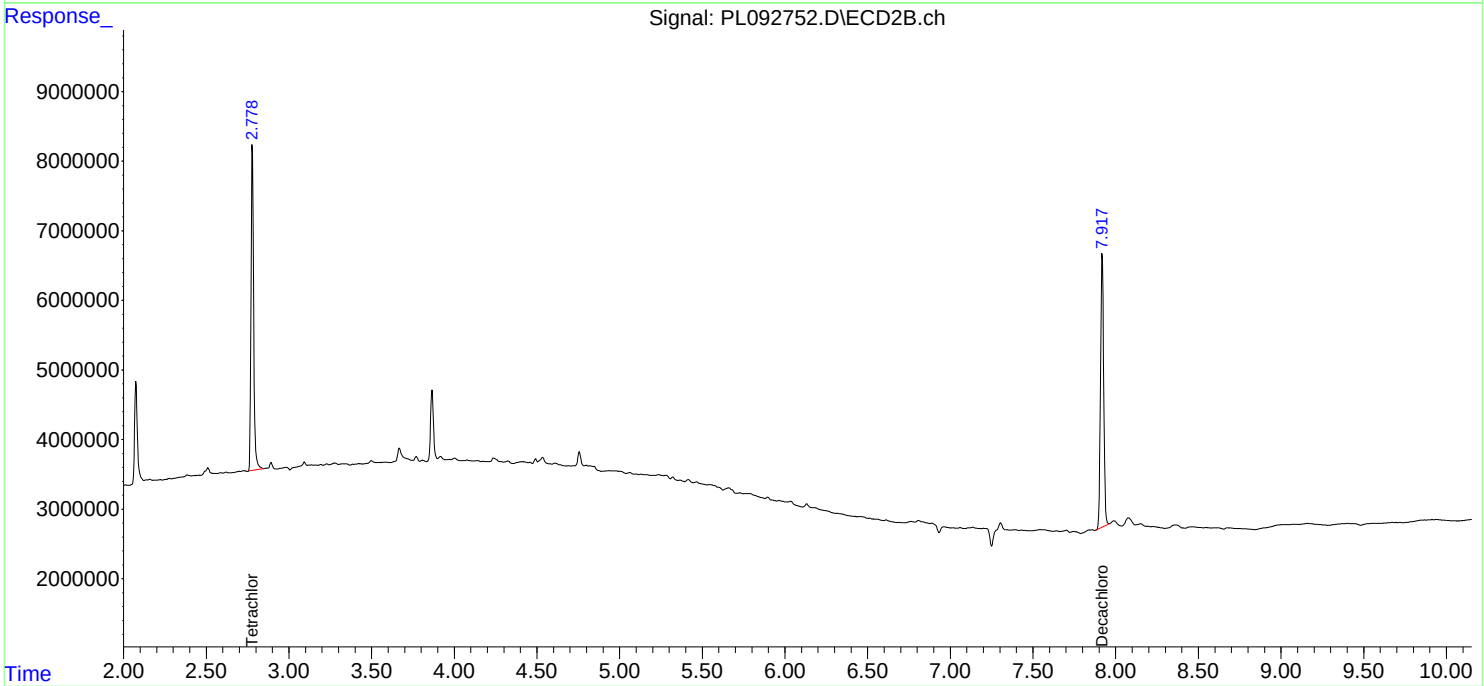
**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK

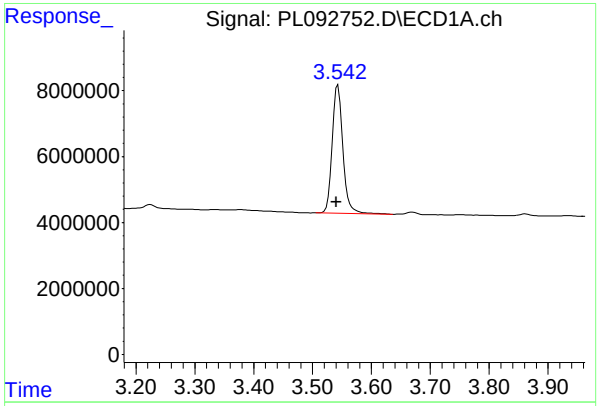
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 01:13:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

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





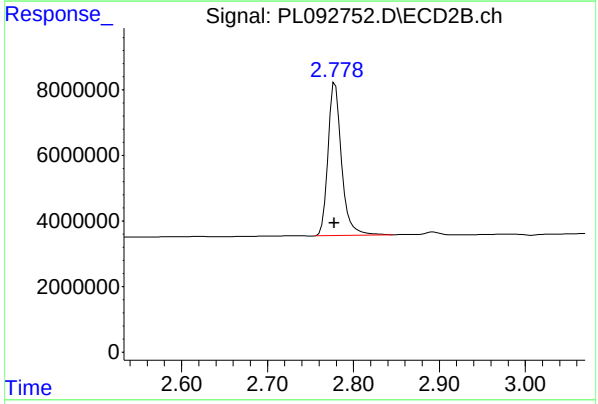

#1 Tetrachloro-m-xylene

R.T.: 3.543 min
Delta R.T.: 0.003 min
Response: 49090629
Conc: 20.04 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK

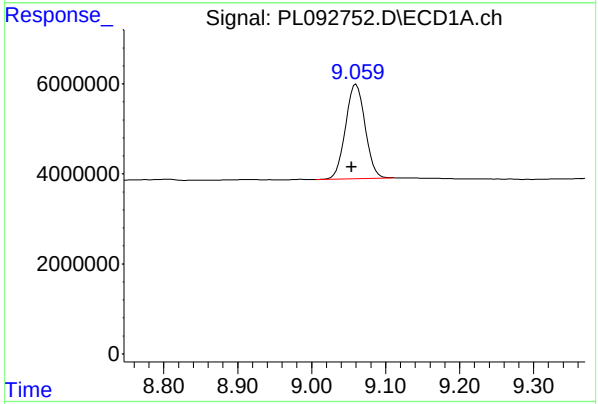
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



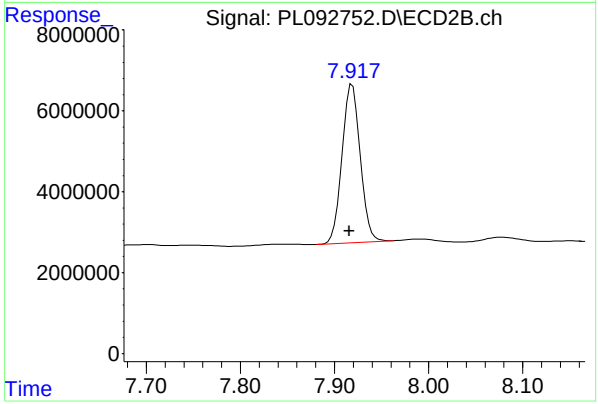

#1 Tetrachloro-m-xylene

R.T.: 2.777 min
Delta R.T.: 0.000 min
Response: 51427087
Conc: 18.90 ng/ml m




#28 Decachlorobiphenyl

R.T.: 9.060 min
Delta R.T.: 0.006 min
Response: 38516439
Conc: 20.01 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.919 min
Delta R.T.: 0.003 min
Response: 52618303
Conc: 19.28 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: | 10/31/24 |
| Project: | NJ Soil PT | Date Received: | 10/31/24 |
| Client Sample ID: | PIBLK-PL092767.D | SDG No.: | P4495 |
| Lab Sample ID: | I.BLK-PL092767.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PESTICIDE Group3 |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092767.D | 1 | | 10/31/24 | PL103124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.9 | | 43 - 140 | 105% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.6 | | 77 - 126 | 98% | SPK: 20 |

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_L\Data\PL103124\
Data File : PL092767.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 18:06
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK

**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:40:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

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

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 3.541 | 2.777 | 48070942 | 51364875 | 19.619m | 18.876m |
| 28) | SA Decachlor... | 9.058 | 7.918 | 40233155 | 56931714 | 20.905 | 20.860 |
| | Target Compounds | | | | | | |

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

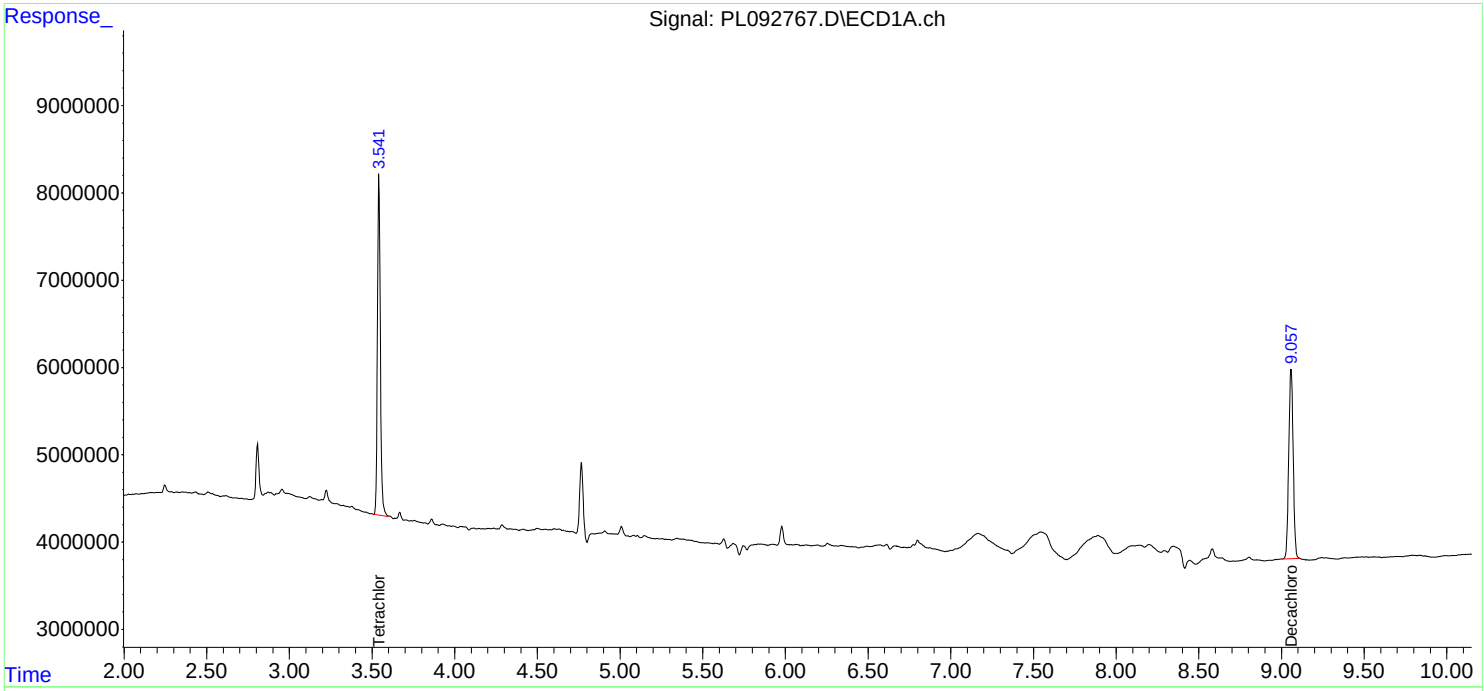
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092767.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 18:06
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

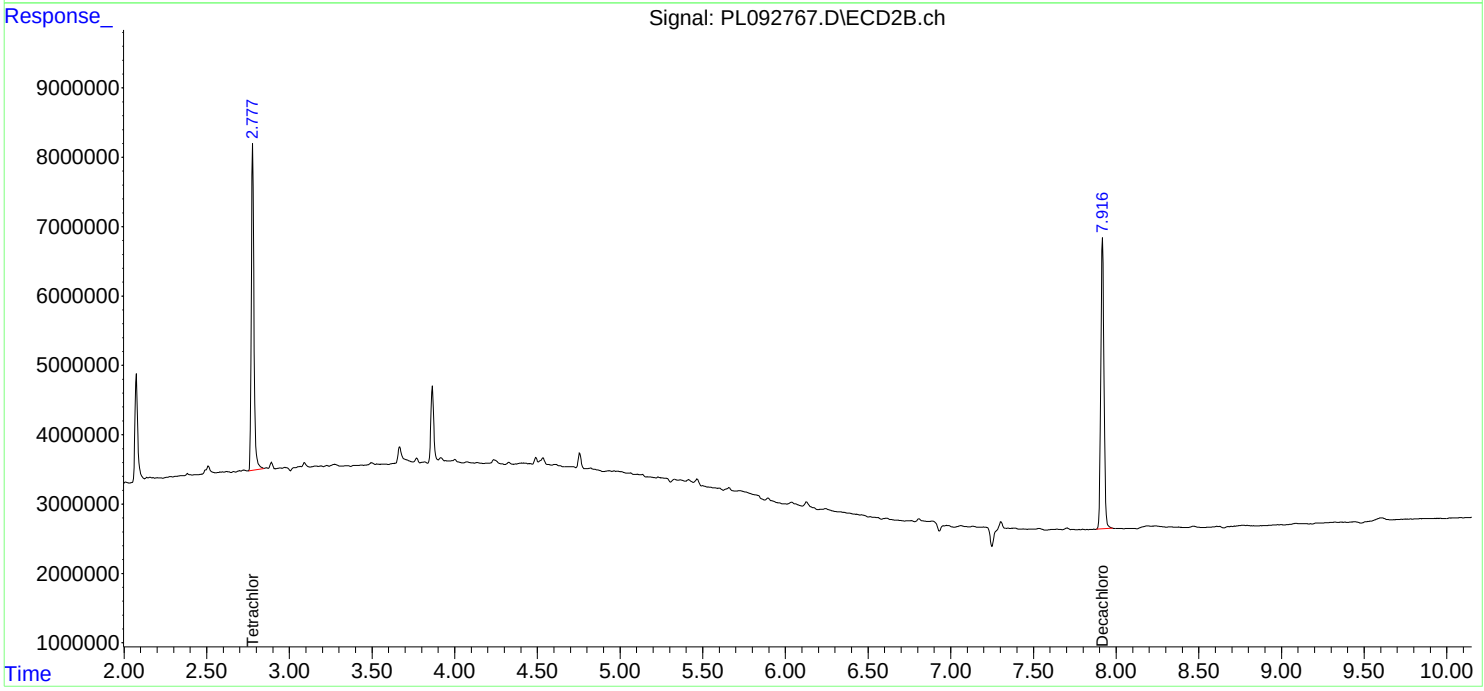
**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK

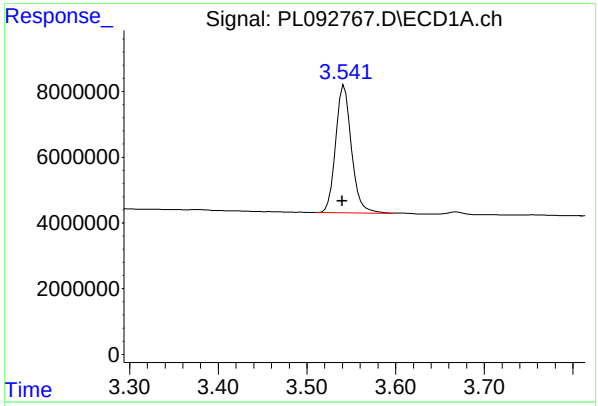
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:40:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

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





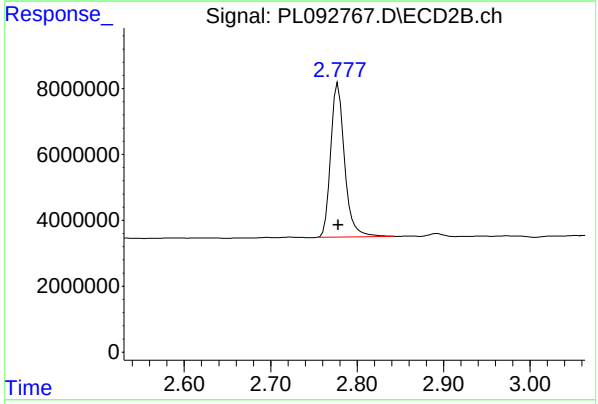

#1 Tetrachloro-m-xylene

R.T.: 3.541 min
Delta R.T.: 0.000 mi
Response: 48070942
Conc: 19.62 ng/m

**Instrument :**
ECD_L
**ClientSampleId :**
I.BLK

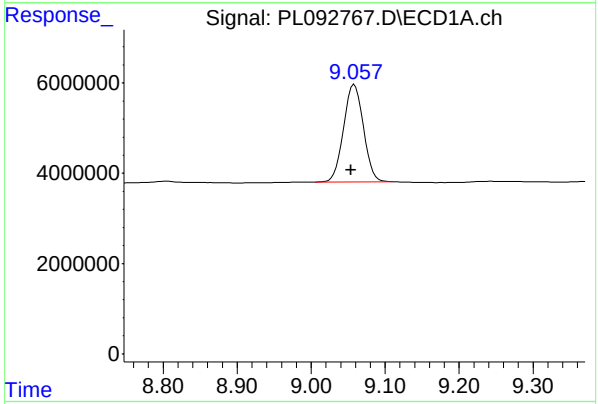
**Manual Integrations**
**APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



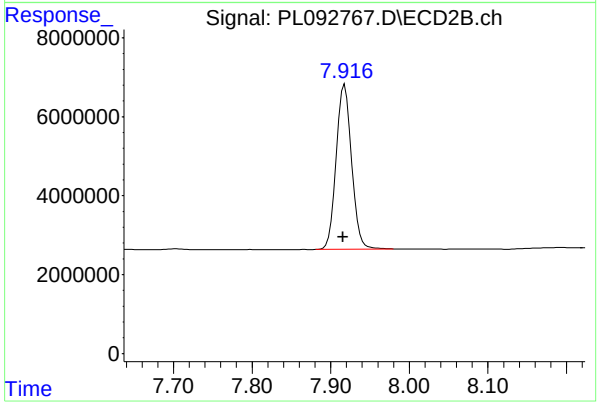

#1 Tetrachloro-m-xylene

R.T.: 2.777 min
Delta R.T.: -0.001 min
Response: 51364875
Conc: 18.88 ng/ml m




#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: 0.004 min
Response: 40233155
Conc: 20.91 ng/ml




#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.002 min
Response: 56931714
Conc: 20.86 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 Soil PT | Date Received: | |
| Client Sample ID: | PB164400BS | SDG No.: | P4495 |
| Lab Sample ID: | PB164400BS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PESTICIDE Group3 |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092764.D | 1 | 10/25/24 09:11 | 10/31/24 16:23 | PB164400 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 8001-35-2 | Toxaphene | 74.4 | | 5.20 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.7 | | 10 - 148 | 109% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.9 | | 10 - 159 | 105% | SPK: 20 |

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_L\Data\PL103124\
Data File : PL092764.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 16:23
Operator : AR\AJ
Sample : PB164400BS
Misc : TOX/BS
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BS

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:18:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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 | | | | | | |
| 1) | SA Tetrachlo... | 3.548 | 2.779 | 50220953 | 53515122 | 20.942 | 19.917 |
| 7) | SA Decachlor... | 9.065 | 7.920 | 41157526 | 57660789 | 21.706 | 20.935 |
| | Target Compounds | | | | | | |
| 2) | Toxaphene-1 | 6.245 | 5.009 | 5962175 | 4604162 | 269.978 | 242.120 |
| 3) | Toxaphene-2 | 6.448 | 5.334 | 3014287 | 4476100 | 222.296m | 227.484 |
| 4) | Toxaphene-3 | 7.066 | 6.608 | 16428029 | 13482199 | 211.443 | 198.154 |
| 5) | Toxaphene-4 | 7.158 | 6.735 | 12275020 | 18918566 | 206.654 | 205.334 |
| 6) | Toxaphene-5 | 7.942 | 7.049 | 9247020 | 11663028 | 206.018 | 177.879 |

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

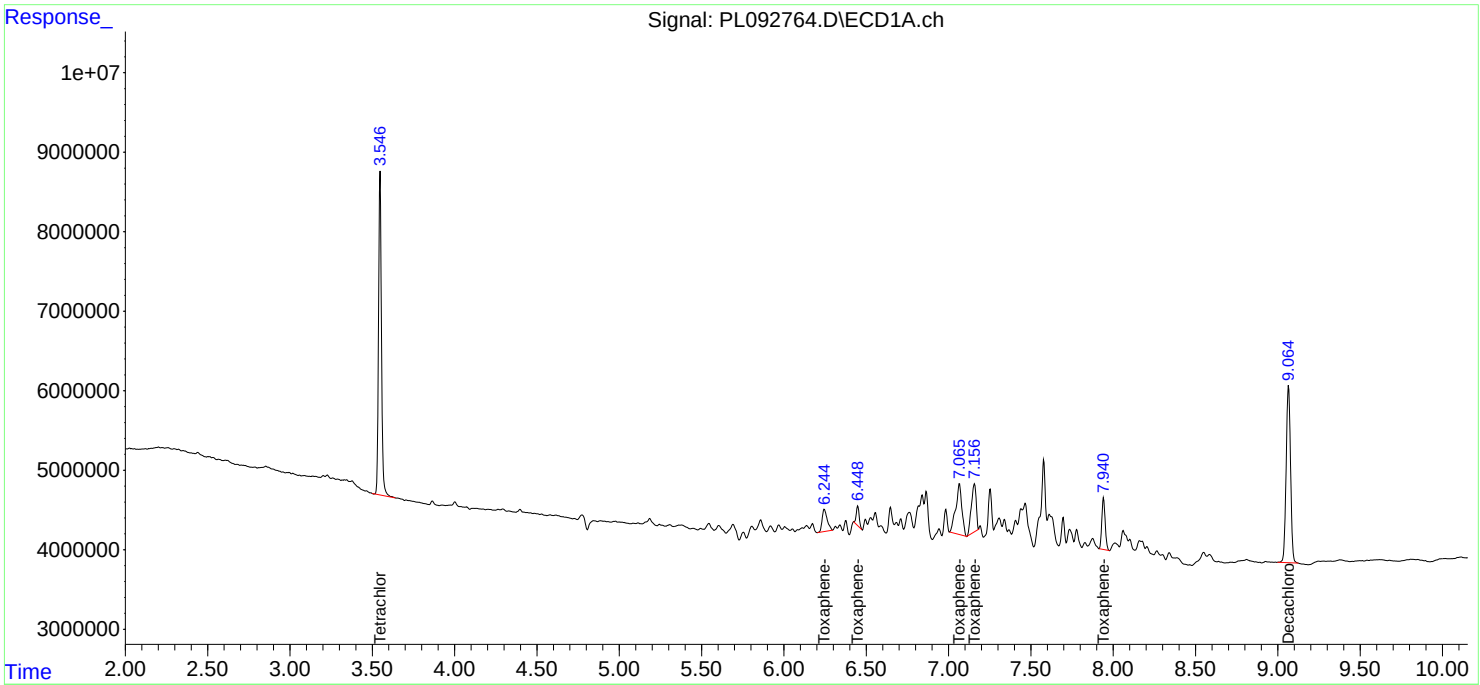
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL103124\
Data File : PL092764.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Oct 2024 16:23
Operator : AR\AJ
Sample : PB164400BS
Misc : TOX/BS
ALS Vial : 14 Sample Multiplier: 1

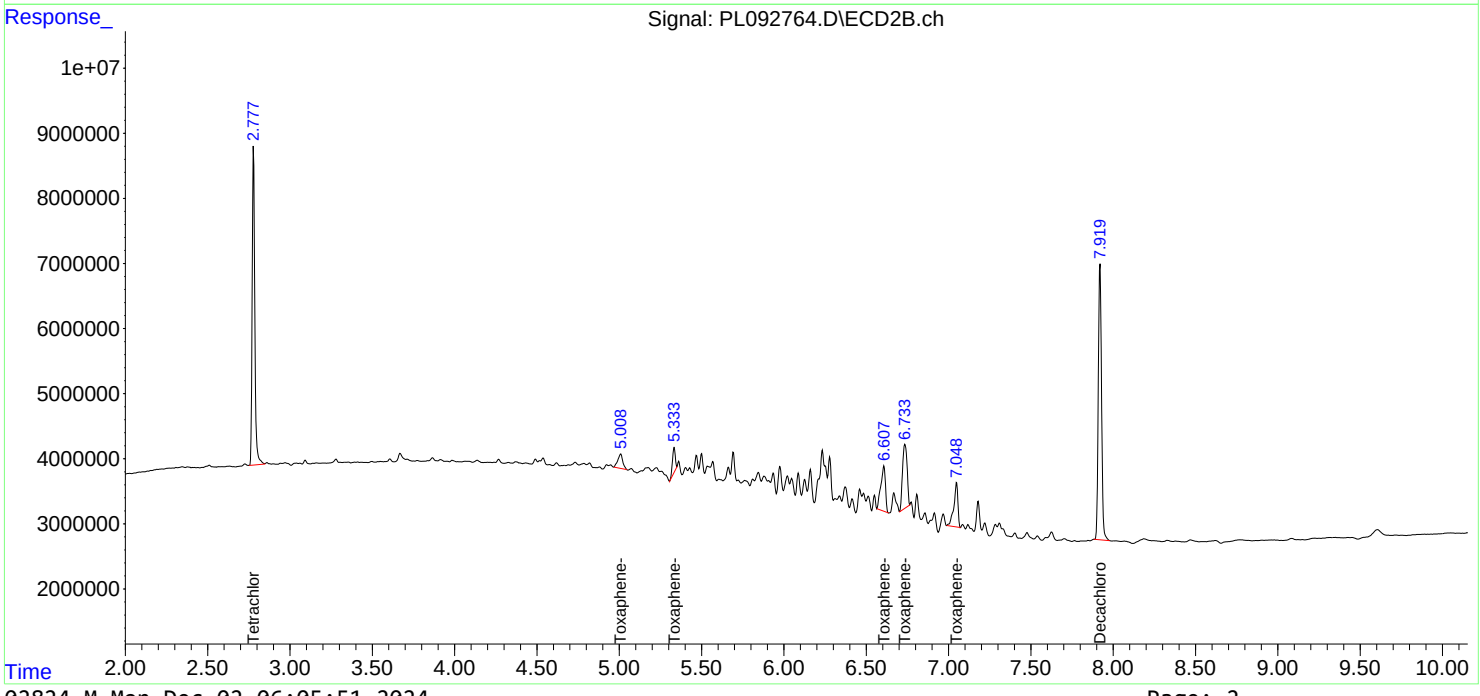
**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BS

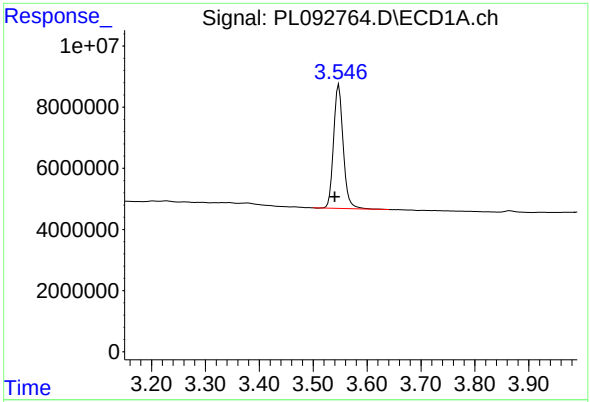
**Manual Integrations APPROVED**
Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 01 02:18:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:04:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm





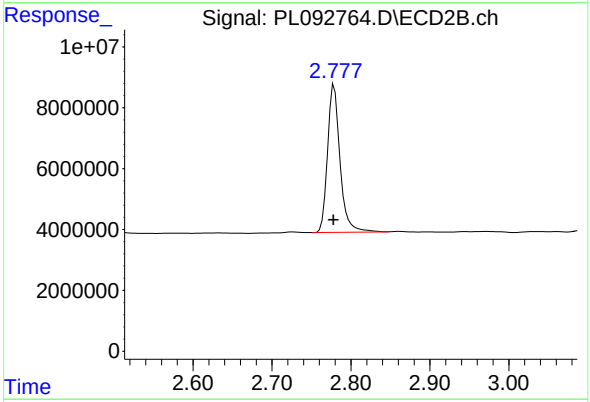

#1 Tetrachloro-m-xylene

R.T.: 3.548 min
Delta R.T.: 0.008 min
Response: 50220953
Conc: 20.94 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BS

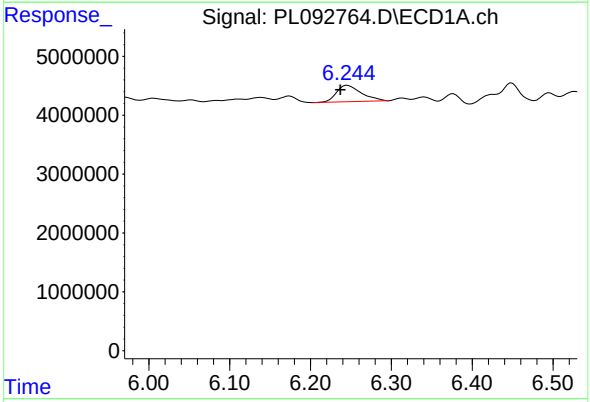
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



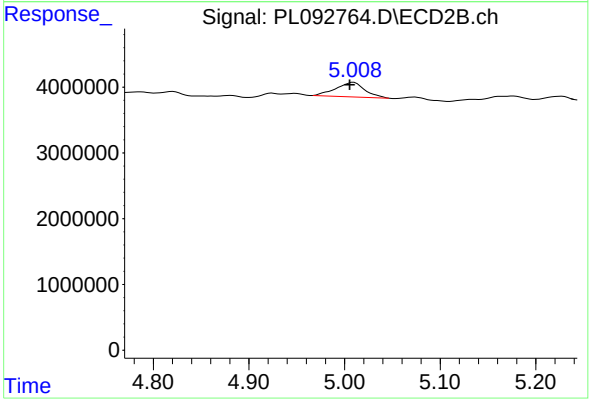

#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.000 min
Response: 53515122
Conc: 19.92 ng/ml



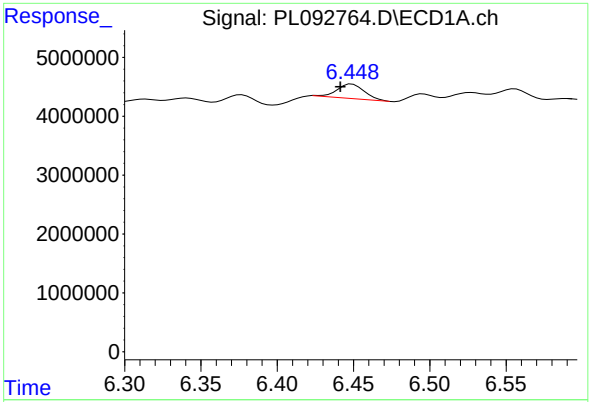

#2 Toxaphene-1

R.T.: 6.245 min
Delta R.T.: 0.009 min
Response: 5962175
Conc: 269.98 ng/ml




#2 Toxaphene-1

R.T.: 5.009 min
Delta R.T.: 0.004 min
Response: 4604162
Conc: 242.12 ng/ml



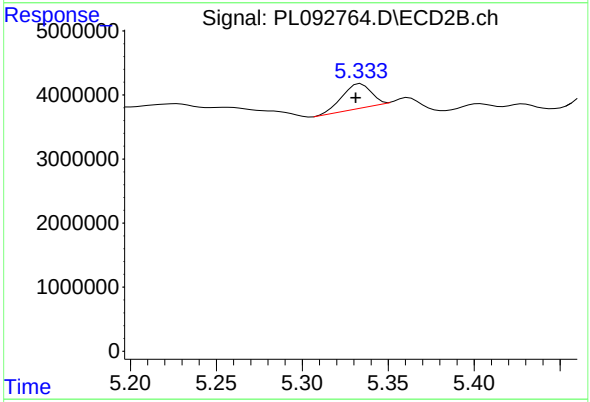

#3 Toxaphene-2

R.T.: 6.448 min
Delta R.T.: 0.006 min
Response: 3014287
Conc: 222.30 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BS

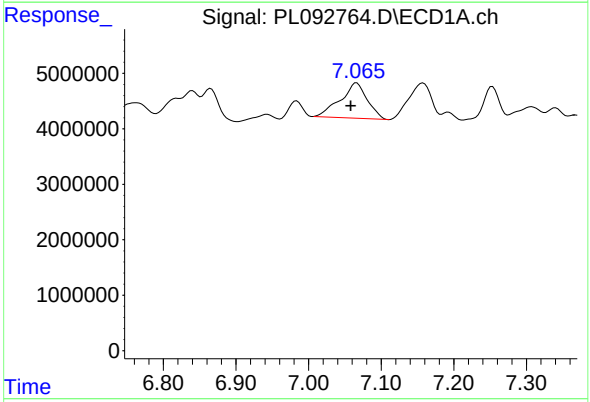
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



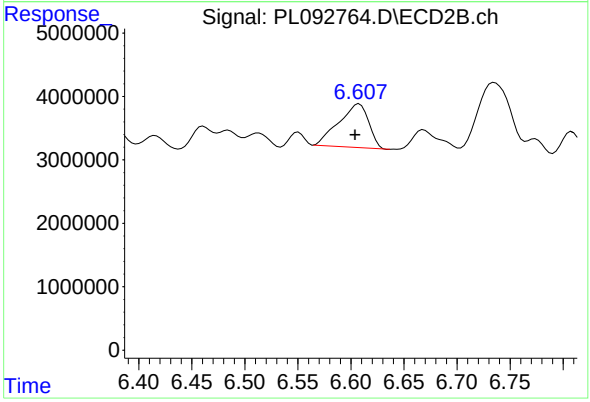

#3 Toxaphene-2

R.T.: 5.334 min
Delta R.T.: 0.003 min
Response: 4476100
Conc: 227.48 ng/ml



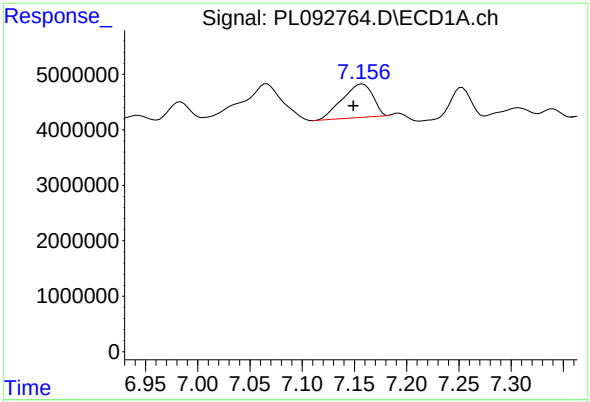

#4 Toxaphene-3

R.T.: 7.066 min
Delta R.T.: 0.008 min
Response: 16428029
Conc: 211.44 ng/ml




#4 Toxaphene-3

R.T.: 6.608 min
Delta R.T.: 0.004 min
Response: 13482199
Conc: 198.15 ng/ml



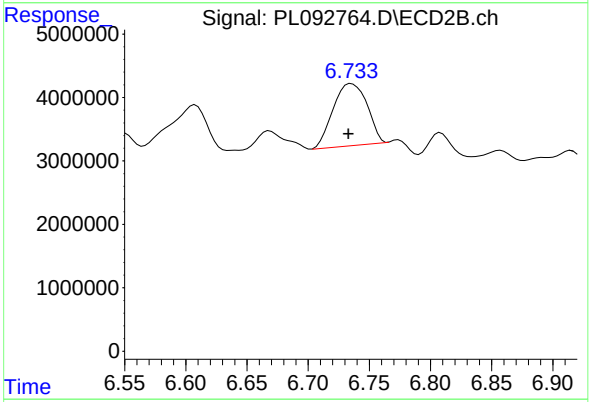

#5 Toxaphene-4

R.T.: 7.158 min
Delta R.T.: 0.009 min
Response: 12275020
Conc: 206.65 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BS

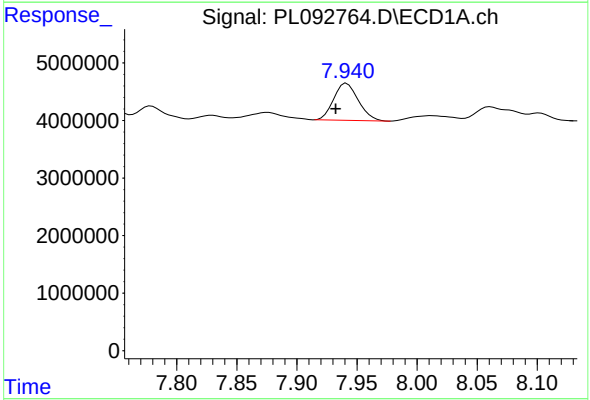
**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024



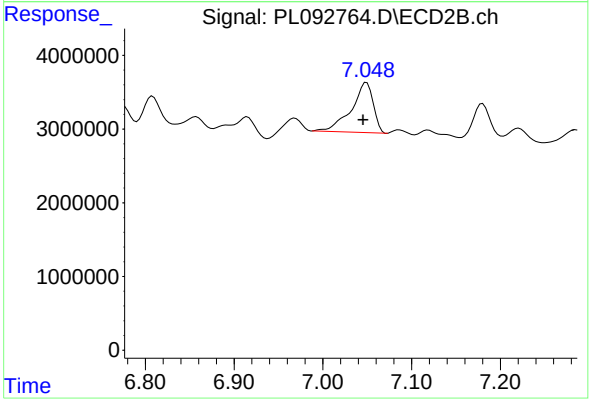

#5 Toxaphene-4

R.T.: 6.735 min
Delta R.T.: 0.002 min
Response: 18918566
Conc: 205.33 ng/ml



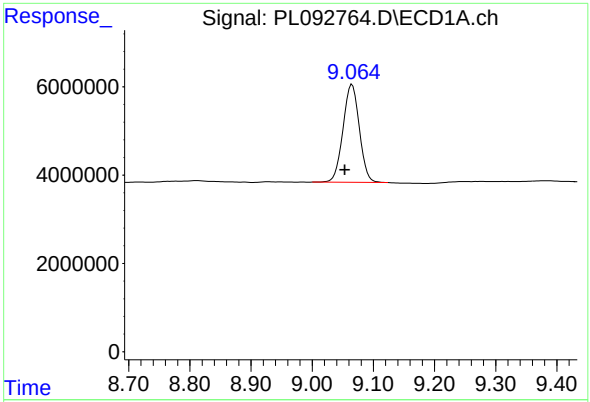

#6 Toxaphene-5

R.T.: 7.942 min
Delta R.T.: 0.009 min
Response: 9247020
Conc: 206.02 ng/ml




#6 Toxaphene-5

R.T.: 7.049 min
Delta R.T.: 0.004 min
Response: 11663028
Conc: 177.88 ng/ml



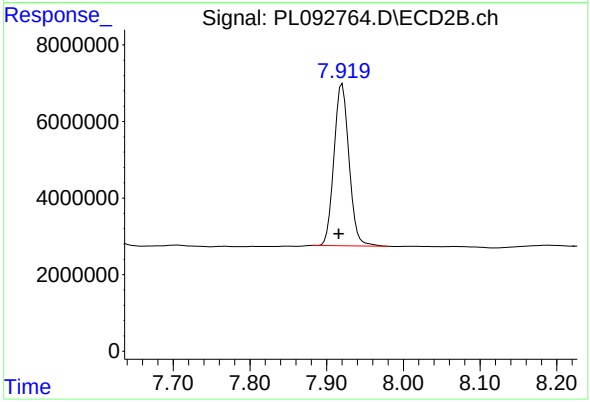

#7 Decachlorobiphenyl

R.T.: 9.065 min
Delta R.T.: 0.012 min
Response: 41157526
Conc: 21.71 ng/ml

**Instrument :**
ECD_L
**ClientSampleId :**
PB164400BS

**Manual Integrations APPROVED**

Reviewed By :Abdul Mirza 11/01/2024
Supervised By :Ankita Jodhani 11/04/2024




#7 Decachlorobiphenyl

R.T.: 7.920 min
Delta R.T.: 0.004 min
Response: 57660789
Conc: 20.94 ng/ml

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

# Manual Integration Report

| Sequence: | PL102824 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PEM | PL092653.D | 4,4"-DDD | Abdul | 10/29/2024 9:08:09 AM | Ankita | 10/29/2024 10:01:26 | Peak Integrated by Software |
| PEM | PL092653.D | 4,4"-DDD #2 | Abdul | 10/29/2024 9:08:09 AM | Ankita | 10/29/2024 10:01:26 | Peak Integrated by Software |
| PTOXICC100 | PL092669.D | Toxaphene-1 | Abdul | 10/29/2024 9:08:17 AM | Ankita | 10/29/2024 10:01:29 | Peak Integrated by Software |
| PEM | PL092674.D | 4,4"-DDD #2 | Abdul | 10/29/2024 9:08:21 AM | Ankita | 10/29/2024 10:01:31 | Peak Integrated by Software |
| PEM | PL092674.D | 4,4"-DDE | Abdul | 10/29/2024 9:08:21 AM | Ankita | 10/29/2024 10:01:31 | Peak Integrated by Software |
| PEM | PL092674.D | 4,4"-DDE #2 | Abdul | 10/29/2024 9:08:21 AM | Ankita | 10/29/2024 10:01:31 | Peak Integrated by Software |
| PEM | PL092674.D | Endrin ketone #2 | Abdul | 10/29/2024 9:08:21 AM | Ankita | 10/29/2024 10:01:31 | Peak Integrated by Software |
| PSTDCCC050 | PL092675.D | Aldrin | Abdul | 10/29/2024 9:08:25 AM | Ankita | 10/29/2024 10:01:33 | Peak Integrated by Software |
| PSTDCCC050 | PL092675.D | Dieldrin #2 | Abdul | 10/29/2024 9:08:25 AM | Ankita | 10/29/2024 10:01:33 | Peak Integrated by Software |
| PSTDCCC050 | PL092675.D | gamma-BHC (Lindane) | Abdul | 10/29/2024 9:08:25 AM | Ankita | 10/29/2024 10:01:33 | Peak Integrated by Software |
| PSTDCCC050 | PL092675.D | Tetrachloro-m-xylene #2 | Abdul | 10/29/2024 9:08:25 AM | Ankita | 10/29/2024 10:01:33 | Peak Integrated by Software |
| I.BLK | PL092690.D | Tetrachloro-m-xylene #2 | Abdul | 10/29/2024 9:09:28 AM | Ankita | 10/29/2024 10:02:09 | Peak Integrated by Software |
| PSTDCCC050 | PL092691.D | Endosulfan II #2 | Abdul | 10/29/2024 9:09:32 AM | Ankita | 10/29/2024 10:02:10 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL102824 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PSTDCCC050 | PL092691.D | gamma-Chlordane | Abdul | 10/29/2024 9:09:32 AM | Ankita | 10/29/2024 10:02:10 | Peak Integrated by Software |
| PSTDCCC050 | PL092691.D | Heptachlor epoxide | Abdul | 10/29/2024 9:09:32 AM | Ankita | 10/29/2024 10:02:10 | Peak Integrated by Software |
| PSTDCCC050 | PL092691.D | Mirex #2 | Abdul | 10/29/2024 9:09:32 AM | Ankita | 10/29/2024 10:02:10 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL103124 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| I.BLK | PL092752.D | Tetrachloro-m-xylene #2 | Abdul | 11/1/2024 12:57:58 PM | Ankita | 11/4/2024 10:07:07 | Peak Integrated by Software |
| PEM | PL092753.D | 4,4"-DDD | Abdul | 11/1/2024 12:58:02 PM | Ankita | 11/4/2024 10:07:09 | Peak Integrated by Software |
| PEM | PL092753.D | alpha-BHC | Abdul | 11/1/2024 12:58:02 PM | Ankita | 11/4/2024 10:07:09 | Peak Integrated by Software |
| PEM | PL092753.D | beta-BHC | Abdul | 11/1/2024 12:58:02 PM | Ankita | 11/4/2024 10:07:09 | Peak Integrated by Software |
| PEM | PL092753.D | gamma-BHC (Lindane) #2 | Abdul | 11/1/2024 12:58:02 PM | Ankita | 11/4/2024 10:07:09 | Peak Integrated by Software |
| PSTDCCC050 | PL092754.D | Aldrin | Abdul | 11/1/2024 12:59:50 PM | Ankita | 11/4/2024 10:07:10 | Peak Integrated by Software |
| PSTDCCC050 | PL092754.D | gamma-BHC (Lindane) | Abdul | 11/1/2024 12:59:50 PM | Ankita | 11/4/2024 10:07:10 | Peak Integrated by Software |
| PSTDCCC050 | PL092754.D | Heptachlor | Abdul | 11/1/2024 12:59:50 PM | Ankita | 11/4/2024 10:07:10 | Peak Integrated by Software |
| PCHLORCCC500 | PL092755.D | Chlordane-3 #2 | Abdul | 11/1/2024 12:58:09 PM | Ankita | 11/4/2024 10:07:12 | Peak Integrated by Software |
| PB164400BS | PL092764.D | Toxaphene-2 | Abdul | 11/1/2024 12:58:25 PM | Ankita | 11/4/2024 10:07:21 | Peak Integrated by Software |
| P4495-22 | PL092765.D | Tetrachloro-m-xylene | Abdul | 11/1/2024 12:58:28 PM | Ankita | 11/4/2024 10:07:23 | Peak Integrated by Software |
| P4495-22 | PL092765.D | Toxaphene-1 | Abdul | 11/1/2024 12:58:28 PM | Ankita | 11/4/2024 10:07:23 | Peak Integrated by Software |
| P4495-22DL | PL092766.D | Tetrachloro-m-xylene | Abdul | 11/1/2024 12:58:34 PM | Ankita | 11/4/2024 10:07:25 | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | PL103124 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| P4495-22DL | PL092766.D | Toxaphene-1 | Abdul | 11/1/2024 12:58:34 PM | Ankita | 11/4/2024 10:07:25 | Peak Integrated by Software |
| P4495-22DL | PL092766.D | Toxaphene-1 #2 | Abdul | 11/1/2024 12:58:34 PM | Ankita | 11/4/2024 10:07:25 | Peak Integrated by Software |
| I.BLK | PL092767.D | Tetrachloro-m-xylene | Abdul | 11/1/2024 12:58:38 PM | Ankita | 11/4/2024 10:07:27 | Peak Integrated by Software |
| I.BLK | PL092767.D | Tetrachloro-m-xylene #2 | Abdul | 11/1/2024 12:58:38 PM | Ankita | 11/4/2024 10:07:27 | Peak Integrated by Software |
| PSTDCCC050 | PL092768.D | Aldrin | Abdul | 11/1/2024 12:58:41 PM | Ankita | 11/4/2024 10:07:29 | Peak Integrated by Software |
| I.BLK | PL092778.D | Tetrachloro-m-xylene | Abdul | 11/1/2024 12:59:14 PM | Ankita | 11/4/2024 10:08:11 | Peak Integrated by Software |
| I.BLK | PL092778.D | Tetrachloro-m-xylene #2 | Abdul | 11/1/2024 12:59:14 PM | Ankita | 11/4/2024 10:08:11 | Peak Integrated by Software |
| PEM | PL092779.D | 4,4"-DDE | Abdul | 11/1/2024 5:38:15 PM | Ankita | 11/4/2024 10:07:40 | Peak Integrated by Software |
| PEM | PL092779.D | 4,4"-DDE #2 | Abdul | 11/1/2024 5:38:15 PM | Ankita | 11/4/2024 10:07:40 | Peak Integrated by Software |
| PEM | PL092779.D | Endrin | Abdul | 11/1/2024 5:38:15 PM | Ankita | 11/4/2024 10:07:40 | Peak Integrated by Software |
| PEM | PL092779.D | gamma-BHC (Lindane) | Abdul | 11/1/2024 5:38:15 PM | Ankita | 11/4/2024 10:07:40 | Peak Integrated by Software |
| PSTDCCC050 | PL092780.D | Aldrin | Abdul | 11/1/2024 12:59:22 PM | Ankita | 11/4/2024 10:07:42 | Peak Integrated by Software |
| PSTDCCC050 | PL092780.D | gamma-BHC (Lindane) | Abdul | 11/1/2024 12:59:22 PM | Ankita | 11/4/2024 10:07:42 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL103124 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PSTDCCC050 | PL092780.D | Heptachlor | Abdul | 11/1/2024 12:59:22 PM | Ankita | 11/4/2024 10:07:42 | Peak Integrated by Software |
| PSTDCCC050 | PL092780.D | Heptachlor epoxide | Abdul | 11/1/2024 12:59:22 PM | Ankita | 11/4/2024 10:07:42 | Peak Integrated by Software |
| I.BLK | PL092784.D | Decachlorobiphenyl | Abdul | 11/1/2024 12:59:33 PM | Ankita | 11/4/2024 10:07:52 | Peak Integrated by Software |
| I.BLK | PL092784.D | Decachlorobiphenyl #2 | Abdul | 11/1/2024 12:59:33 PM | Ankita | 11/4/2024 10:07:52 | Peak Integrated by Software |
| I.BLK | PL092784.D | Tetrachloro-m-xylene | Abdul | 11/1/2024 12:59:33 PM | Ankita | 11/4/2024 10:07:52 | Peak Integrated by Software |
| I.BLK | PL092784.D | Tetrachloro-m-xylene #2 | Abdul | 11/1/2024 12:59:33 PM | Ankita | 11/4/2024 10:07:52 | Peak Integrated by Software |
| PSTDCCC050 | PL092785.D | 4,4"-DDE | Abdul | 11/1/2024 12:59:37 PM | Ankita | 11/4/2024 10:07:54 | Peak Integrated by Software |
| PSTDCCC050 | PL092785.D | Aldrin | Abdul | 11/1/2024 12:59:37 PM | Ankita | 11/4/2024 10:07:54 | Peak Integrated by Software |
| PSTDCCC050 | PL092785.D | gamma-BHC (Lindane) | Abdul | 11/1/2024 12:59:37 PM | Ankita | 11/4/2024 10:07:54 | Peak Integrated by Software |
| PSTDCCC050 | PL092785.D | Heptachlor | Abdul | 11/1/2024 12:59:37 PM | Ankita | 11/4/2024 10:07:54 | Peak Integrated by Software |
| PSTDCCC050 | PL092785.D | Heptachlor epoxide | Abdul | 11/1/2024 12:59:37 PM | Ankita | 11/4/2024 10:07:54 | Peak Integrated by Software |
| PSTDCCC050 | PL092785.D | Mirex #2 | Abdul | 11/1/2024 12:59:37 PM | Ankita | 11/4/2024 10:07:54 | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | PL103124 | Instrument | ECD_I |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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Fax : 908 789 8922

**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/29/2024 9:09:59 AM | | |
| Supervise By | Ankita | Supervise On | 10/29/2024 10:02:30 AM | | |
| SubDirectory | PL102824 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PL092651.D | 28 Oct 2024 13:41 | AR\AJ | Ok |
| 2 | I.BLK | PL092652.D | 28 Oct 2024 13:55 | AR\AJ | Ok |
| 3 | PEM | PL092653.D | 28 Oct 2024 14:16 | AR\AJ | Ok,M |
| 4 | RESCHK | PL092654.D | 28 Oct 2024 14:29 | AR\AJ | Ok |
| 5 | PSTDICC100 | PL092655.D | 28 Oct 2024 14:43 | AR\AJ | Ok |
| 6 | PSTDICC075 | PL092656.D | 28 Oct 2024 14:56 | AR\AJ | Ok |
| 7 | PSTDICC050 | PL092657.D | 28 Oct 2024 15:09 | AR\AJ | Ok |
| 8 | PSTDICC025 | PL092658.D | 28 Oct 2024 15:23 | AR\AJ | Ok |
| 9 | PSTDICC005 | PL092659.D | 28 Oct 2024 15:36 | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PL092660.D | 28 Oct 2024 15:49 | AR\AJ | Ok |
| 11 | PCHLORICC750 | PL092661.D | 28 Oct 2024 16:03 | AR\AJ | Ok |
| 12 | PCHLORICC500 | PL092662.D | 28 Oct 2024 16:16 | AR\AJ | Ok |
| 13 | PCHLORICC250 | PL092663.D | 28 Oct 2024 16:30 | AR\AJ | Ok |
| 14 | PCHLORICC050 | PL092664.D | 28 Oct 2024 16:43 | AR\AJ | Ok |
| 15 | PTOXICC1000 | PL092665.D | 28 Oct 2024 16:56 | AR\AJ | Ok |
| 16 | PTOXICC750 | PL092666.D | 28 Oct 2024 17:10 | AR\AJ | Ok |
| 17 | PTOXICC500 | PL092667.D | 28 Oct 2024 17:23 | AR\AJ | Ok |
| 18 | PTOXICC250 | PL092668.D | 28 Oct 2024 17:37 | AR\AJ | Ok |
| 19 | PTOXICC100 | PL092669.D | 28 Oct 2024 17:50 | AR\AJ | Ok,M |
| 20 | PSTDICV050 | PL092670.D | 28 Oct 2024 18:03 | AR\AJ | Ok |
| 21 | PCHLORICV500 | PL092671.D | 28 Oct 2024 18:30 | AR\AJ | Ok |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/29/2024 9:09:59 AM | | |
| Supervise By | Ankita | Supervise On | 10/29/2024 10:02:30 AM | | |
| SubDirectory | PL102824 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PTOXICV500 | PL092672.D | 28 Oct 2024 18:57 | AR\AJ | Ok |
| 23 | I.BLK | PL092673.D | 28 Oct 2024 19:24 | AR\AJ | Ok |
| 24 | PEM | PL092674.D | 28 Oct 2024 19:37 | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PL092675.D | 28 Oct 2024 19:51 | AR\AJ | Ok,M |
| 26 | PB164460BL | PL092676.D | 28 Oct 2024 20:04 | AR\AJ | Ok,M |
| 27 | PB164460BS | PL092677.D | 28 Oct 2024 20:17 | AR\AJ | Ok,M |
| 28 | P4575-01 | PL092678.D | 28 Oct 2024 20:31 | AR\AJ | Ok,M |
| 29 | P4566-01 | PL092679.D | 28 Oct 2024 20:44 | AR\AJ | Ok,M |
| 30 | P4567-01 | PL092680.D | 28 Oct 2024 20:57 | AR\AJ | Ok,M |
| 31 | P4567-05 | PL092681.D | 28 Oct 2024 21:11 | AR\AJ | Ok |
| 32 | P4567-09 | PL092682.D | 28 Oct 2024 21:24 | AR\AJ | Ok,M |
| 33 | P4574-01 | PL092683.D | 28 Oct 2024 21:38 | AR\AJ | Ok,M |
| 34 | P4574-04 | PL092684.D | 28 Oct 2024 21:51 | AR\AJ | Ok,M |
| 35 | P4577-01 | PL092685.D | 28 Oct 2024 22:04 | AR\AJ | Ok,M |
| 36 | P4561-01 | PL092686.D | 28 Oct 2024 22:18 | AR\AJ | Ok,M |
| 37 | P4561-01MS | PL092687.D | 28 Oct 2024 22:31 | AR\AJ | Ok,M |
| 38 | P4561-01MSD | PL092688.D | 28 Oct 2024 22:44 | AR\AJ | Ok,M |
| 39 | P4561-05 | PL092689.D | 28 Oct 2024 22:58 | AR\AJ | Ok,M |
| 40 | I.BLK | PL092690.D | 28 Oct 2024 23:11 | AR\AJ | Ok,M |
| 41 | PSTDCCC050 | PL092691.D | 29 Oct 2024 00:32 | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL103124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 11/1/2024 1:01:07 PM | | |
| Supervise By | Ankita | Supervise On | 11/4/2024 10:08:19 AM | | |
| SubDirectory | PL103124 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PL092751.D | 31 Oct 2024 11:01 | AR\AJ | Ok |
| 2 | I.BLK | PL092752.D | 31 Oct 2024 11:15 | AR\AJ | Ok,M |
| 3 | PEM | PL092753.D | 31 Oct 2024 11:29 | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PL092754.D | 31 Oct 2024 11:43 | AR\AJ | Ok,M |
| 5 | PCHLORCCC500 | PL092755.D | 31 Oct 2024 12:33 | AR\AJ | Ok,M |
| 6 | PTOXCCC500 | PL092756.D | 31 Oct 2024 13:03 | AR\AJ | Ok |
| 7 | P4495-20 | PL092757.D | 31 Oct 2024 13:33 | AR\AJ | Not Ok |
| 8 | P4495-20DL | PL092758.D | 31 Oct 2024 13:54 | AR\AJ | Not Ok |
| 9 | P4495-20DL2 | PL092759.D | 31 Oct 2024 14:07 | AR\AJ | Not Ok |
| 10 | PB164399BL | PL092760.D | 31 Oct 2024 14:21 | AR\AJ | Ok,M |
| 11 | PB164399BS | PL092761.D | 31 Oct 2024 14:35 | AR\AJ | Ok |
| 12 | P4495-21 | PL092762.D | 31 Oct 2024 14:49 | AR\AJ | Ok |
| 13 | PB164400BL | PL092763.D | 31 Oct 2024 15:11 | AR\AJ | Ok |
| 14 | PB164400BS | PL092764.D | 31 Oct 2024 16:23 | AR\AJ | Ok,M |
| 15 | P4495-22 | PL092765.D | 31 Oct 2024 16:36 | AR\AJ | Dilution |
| 16 | P4495-22DL | PL092766.D | 31 Oct 2024 17:52 | AR\AJ | Ok,M |
| 17 | I.BLK | PL092767.D | 31 Oct 2024 18:06 | AR\AJ | Ok,M |
| 18 | PSTDCCC050 | PL092768.D | 31 Oct 2024 18:20 | AR\AJ | Ok,M |
| 19 | PCHLORCCC500 | PL092769.D | 31 Oct 2024 18:34 | AR\AJ | Ok |
| 20 | PTOXCCC500 | PL092770.D | 31 Oct 2024 18:47 | AR\AJ | Ok |
| 21 | PB164557BL | PL092771.D | 31 Oct 2024 19:01 | AR\AJ | Ok |

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**Instrument ID: ECD_L**

## Daily Analysis Runlog For Sequence/QCBatch ID # PL103124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 11/1/2024 1:01:07 PM | | |
| Supervise By | Ankita | Supervise On | 11/4/2024 10:08:19 AM | | |
| SubDirectory | PL103124 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | PB164557BS | PL092772.D | 31 Oct 2024 19:15 | AR\AJ | Ok,M |
| 23 | P4639-01 | PL092773.D | 31 Oct 2024 19:29 | AR\AJ | Ok,M |
| 24 | P4639-03 | PL092774.D | 31 Oct 2024 19:43 | AR\AJ | Ok,M |
| 25 | P4643-01 | PL092775.D | 31 Oct 2024 19:57 | AR\AJ | Ok,M |
| 26 | P4643-05 | PL092776.D | 31 Oct 2024 20:11 | AR\AJ | Ok,M |
| 27 | P4643-09 | PL092777.D | 31 Oct 2024 20:25 | AR\AJ | Ok,M |
| 28 | I.BLK | PL092778.D | 31 Oct 2024 20:39 | AR\AJ | Ok,M |
| 29 | PEM | PL092779.D | 31 Oct 2024 20:53 | AR\AJ | Ok,M |
| 30 | PSTDCCC050 | PL092780.D | 31 Oct 2024 21:06 | AR\AJ | Ok,M |
| 31 | P4640-01 | PL092781.D | 31 Oct 2024 21:34 | AR\AJ | Ok,M |
| 32 | P4640-01MS | PL092782.D | 31 Oct 2024 21:48 | AR\AJ | Ok,M |
| 33 | P4640-01MSD | PL092783.D | 31 Oct 2024 22:02 | AR\AJ | Ok,M |
| 34 | I.BLK | PL092784.D | 31 Oct 2024 22:30 | AR\AJ | Ok,M |
| 35 | PSTDCCC050 | PL092785.D | 31 Oct 2024 22:44 | AR\AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/29/2024 9:09:59 AM | | |
| Supervise By | Ankita | Supervise On | 10/29/2024 10:02:30 AM | | |
| SubDirectory | PL102824 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PL092651.D | 28 Oct 2024 13:41 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL092652.D | 28 Oct 2024 13:55 | | AR\AJ | Ok |
| 3 | PEM | PEM | PL092653.D | 28 Oct 2024 14:16 | | AR\AJ | Ok,M |
| 4 | RESCHK | RESCHK | PL092654.D | 28 Oct 2024 14:29 | | AR\AJ | Ok |
| 5 | PSTDICC100 | PSTDICC100 | PL092655.D | 28 Oct 2024 14:43 | | AR\AJ | Ok |
| 6 | PSTDICC075 | PSTDICC075 | PL092656.D | 28 Oct 2024 14:56 | | AR\AJ | Ok |
| 7 | PSTDICC050 | PSTDICC050 | PL092657.D | 28 Oct 2024 15:09 | | AR\AJ | Ok |
| 8 | PSTDICC025 | PSTDICC025 | PL092658.D | 28 Oct 2024 15:23 | | AR\AJ | Ok |
| 9 | PSTDICC005 | PSTDICC005 | PL092659.D | 28 Oct 2024 15:36 | | AR\AJ | Ok,M |
| 10 | PCHLORICC1000 | PCHLORICC1000 | PL092660.D | 28 Oct 2024 15:49 | | AR\AJ | Ok |
| 11 | PCHLORICC750 | PCHLORICC750 | PL092661.D | 28 Oct 2024 16:03 | | AR\AJ | Ok |
| 12 | PCHLORICC500 | PCHLORICC500 | PL092662.D | 28 Oct 2024 16:16 | | AR\AJ | Ok |
| 13 | PCHLORICC250 | PCHLORICC250 | PL092663.D | 28 Oct 2024 16:30 | | AR\AJ | Ok |
| 14 | PCHLORICC050 | PCHLORICC050 | PL092664.D | 28 Oct 2024 16:43 | | AR\AJ | Ok |
| 15 | PTOXICC1000 | PTOXICC1000 | PL092665.D | 28 Oct 2024 16:56 | | AR\AJ | Ok |
| 16 | PTOXICC750 | PTOXICC750 | PL092666.D | 28 Oct 2024 17:10 | | AR\AJ | Ok |
| 17 | PTOXICC500 | PTOXICC500 | PL092667.D | 28 Oct 2024 17:23 | | AR\AJ | Ok |
| 18 | PTOXICC250 | PTOXICC250 | PL092668.D | 28 Oct 2024 17:37 | | AR\AJ | Ok |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/29/2024 9:09:59 AM | | |
| Supervise By | Ankita | Supervise On | 10/29/2024 10:02:30 AM | | |
| SubDirectory | PL102824 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PTOXICC100 | PTOXICC100 | PL092669.D | 28 Oct 2024 17:50 | | AR\AJ | Ok,M |
| 20 | PSTDICV050 | ICVPL102824 | PL092670.D | 28 Oct 2024 18:03 | | AR\AJ | Ok |
| 21 | PCHLORICV500 | ICVPL102824CHLOR | PL092671.D | 28 Oct 2024 18:30 | | AR\AJ | Ok |
| 22 | PTOXICV500 | ICVPL102824TOX | PL092672.D | 28 Oct 2024 18:57 | | AR\AJ | Ok |
| 23 | I.BLK | I.BLK | PL092673.D | 28 Oct 2024 19:24 | | AR\AJ | Ok |
| 24 | PEM | PEM | PL092674.D | 28 Oct 2024 19:37 | | AR\AJ | Ok,M |
| 25 | PSTDCCC050 | PSTDCCC050 | PL092675.D | 28 Oct 2024 19:51 | | AR\AJ | Ok,M |
| 26 | PB164460BL | PB164460BL | PL092676.D | 28 Oct 2024 20:04 | | AR\AJ | Ok,M |
| 27 | PB164460BS | PB164460BS | PL092677.D | 28 Oct 2024 20:17 | | AR\AJ | Ok,M |
| 28 | P4575-01 | PL-02-102424 | PL092678.D | 28 Oct 2024 20:31 | | AR\AJ | Ok,M |
| 29 | P4566-01 | HD-01-102524 | PL092679.D | 28 Oct 2024 20:44 | | AR\AJ | Ok,M |
| 30 | P4567-01 | WC-1 | PL092680.D | 28 Oct 2024 20:57 | | AR\AJ | Ok,M |
| 31 | P4567-05 | WC-2 | PL092681.D | 28 Oct 2024 21:11 | | AR\AJ | Ok |
| 32 | P4567-09 | WC-3 | PL092682.D | 28 Oct 2024 21:24 | | AR\AJ | Ok,M |
| 33 | P4574-01 | GRAVEL-1 | PL092683.D | 28 Oct 2024 21:38 | | AR\AJ | Ok,M |
| 34 | P4574-04 | GRAVEL-2 | PL092684.D | 28 Oct 2024 21:51 | | AR\AJ | Ok,M |
| 35 | P4577-01 | TR-05-102524 | PL092685.D | 28 Oct 2024 22:04 | | AR\AJ | Ok,M |
| 36 | P4561-01 | BP-F-19 | PL092686.D | 28 Oct 2024 22:18 | | AR\AJ | Ok,M |
| 37 | P4561-01MS | BP-F-19MS | PL092687.D | 28 Oct 2024 22:31 | | AR\AJ | Ok,M |

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**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 10/29/2024 9:09:59 AM | | |
| Supervise By | Ankita | Supervise On | 10/29/2024 10:02:30 AM | | |
| SubDirectory | PL102824 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | P4561-01MSD | BP-F-19MSD | PL092688.D | 28 Oct 2024 22:44 | | AR\AJ | Ok,M |
| 39 | P4561-05 | BP-F-18 | PL092689.D | 28 Oct 2024 22:58 | | AR\AJ | Ok,M |
| 40 | I.BLK | I.BLK | PL092690.D | 28 Oct 2024 23:11 | | AR\AJ | Ok,M |
| 41 | PSTDCCC050 | PSTDCCC050 | PL092691.D | 29 Oct 2024 00:32 | | 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_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL103124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 11/1/2024 1:01:07 PM | | |
| Supervise By | Ankita | Supervise On | 11/4/2024 10:08:19 AM | | |
| SubDirectory | PL103124 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PL092751.D | 31 Oct 2024 11:01 | | AR\AJ | Ok |
| 2 | I.BLK | I.BLK | PL092752.D | 31 Oct 2024 11:15 | | AR\AJ | Ok,M |
| 3 | PEM | PEM | PL092753.D | 31 Oct 2024 11:29 | | AR\AJ | Ok,M |
| 4 | PSTDCCC050 | PSTDCCC050 | PL092754.D | 31 Oct 2024 11:43 | | AR\AJ | Ok,M |
| 5 | PCHLORCCC500 | PCHLORCCC500 | PL092755.D | 31 Oct 2024 12:33 | | AR\AJ | Ok,M |
| 6 | PTOXCCC500 | PTOXCCC500 | PL092756.D | 31 Oct 2024 13:03 | | AR\AJ | Ok |
| 7 | P4495-20 | PT-PEST-SOIL | PL092757.D | 31 Oct 2024 13:33 | NOT USED | AR\AJ | Not Ok |
| 8 | P4495-20DL | PT-PEST-SOILDL | PL092758.D | 31 Oct 2024 13:54 | NOT USED | AR\AJ | Not Ok |
| 9 | P4495-20DL2 | PT-PEST-SOILDL2 | PL092759.D | 31 Oct 2024 14:07 | NOT USED | AR\AJ | Not Ok |
| 10 | PB164399BL | PB164399BL | PL092760.D | 31 Oct 2024 14:21 | | AR\AJ | Ok,M |
| 11 | PB164399BS | PB164399BS | PL092761.D | 31 Oct 2024 14:35 | | AR\AJ | Ok |
| 12 | P4495-21 | PT-CHLR-SOIL | PL092762.D | 31 Oct 2024 14:49 | | AR\AJ | Ok |
| 13 | PB164400BL | PB164400BL | PL092763.D | 31 Oct 2024 15:11 | | AR\AJ | Ok |
| 14 | PB164400BS | PB164400BS | PL092764.D | 31 Oct 2024 16:23 | | AR\AJ | Ok,M |
| 15 | P4495-22 | PT-TXP-SOIL | PL092765.D | 31 Oct 2024 16:36 | Need dilution | AR\AJ | Dilution |
| 16 | P4495-22DL | PT-TXP-SOILDL | PL092766.D | 31 Oct 2024 17:52 | | AR\AJ | Ok,M |
| 17 | I.BLK | I.BLK | PL092767.D | 31 Oct 2024 18:06 | | AR\AJ | Ok,M |
| 18 | PSTDCCC050 | PSTDCCC050 | PL092768.D | 31 Oct 2024 18:20 | | AR\AJ | Ok,M |

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

**Instrument ID:** ECD_L

## Daily Analysis Runlog For Sequence/QCBatch ID # PL103124

| | | | | | |
|---|---|---|---|---|---|
| Review By | Abdul | Review On | 11/1/2024 1:01:07 PM | | |
| Supervise By | Ankita | Supervise On | 11/4/2024 10:08:19 AM | | |
| SubDirectory | PL103124 | HP Acquire Method | | HP Processing Method | pl102824 8081 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | PP23793,PP23517 |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC | PP23686,PP23690,PP23695 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP23687,PP23693,PP23698 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PCHLORCCC500 | PCHLORCCC500 | PL092769.D | 31 Oct 2024 18:34 | | AR\AJ | Ok |
| 20 | PTOXCCC500 | PTOXCCC500 | PL092770.D | 31 Oct 2024 18:47 | | AR\AJ | Ok |
| 21 | PB164557BL | PB164557BL | PL092771.D | 31 Oct 2024 19:01 | | AR\AJ | Ok |
| 22 | PB164557BS | PB164557BS | PL092772.D | 31 Oct 2024 19:15 | | AR\AJ | Ok,M |
| 23 | P4639-01 | EO-01-103024 | PL092773.D | 31 Oct 2024 19:29 | | AR\AJ | Ok,M |
| 24 | P4639-03 | EO-02-103024 | PL092774.D | 31 Oct 2024 19:43 | | AR\AJ | Ok,M |
| 25 | P4643-01 | BP-F9-ADDITIONAL | PL092775.D | 31 Oct 2024 19:57 | | AR\AJ | Ok,M |
| 26 | P4643-05 | BP-F8 | PL092776.D | 31 Oct 2024 20:11 | | AR\AJ | Ok,M |
| 27 | P4643-09 | TP-9 | PL092777.D | 31 Oct 2024 20:25 | | AR\AJ | Ok,M |
| 28 | I.BLK | I.BLK | PL092778.D | 31 Oct 2024 20:39 | | AR\AJ | Ok,M |
| 29 | PEM | PEM | PL092779.D | 31 Oct 2024 20:53 | | AR\AJ | Ok,M |
| 30 | PSTDCCC050 | PSTDCCC050 | PL092780.D | 31 Oct 2024 21:06 | | AR\AJ | Ok,M |
| 31 | P4640-01 | MH-3 | PL092781.D | 31 Oct 2024 21:34 | | AR\AJ | Ok,M |
| 32 | P4640-01MS | MH-3MS | PL092782.D | 31 Oct 2024 21:48 | | AR\AJ | Ok,M |
| 33 | P4640-01MSD | MH-3MSD | PL092783.D | 31 Oct 2024 22:02 | | AR\AJ | Ok,M |
| 34 | I.BLK | I.BLK | PL092784.D | 31 Oct 2024 22:30 | | AR\AJ | Ok,M |
| 35 | PSTDCCC050 | PSTDCCC050 | PL092785.D | 31 Oct 2024 22:44 | | AR\AJ | Ok,M |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 10/25/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 10/23/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:20
**Out Date:** 10/24/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133085

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P4488-09 | HCC-1 | 1 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oil sample |
| P4488-10 | HCC-2 | 2 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oil sample |
| P4495-01 | PT-AN-SOIL | 3 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-02 | PT-CORR-SOIL | 4 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-03 | PT-CN-SOIL | 5 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-04 | PT-CN-SOIL | 6 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-05 | PT-FP-SOIL | 7 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-06 | PT-CR6-SOIL | 8 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-07 | PT-NUT-SOIL | 9 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-08 | PT-NUT-SOIL | 10 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-09 | PT-OGR-SOIL | 11 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-10 | PT-MET-SOIL | 12 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-11 | PT-BNA-SOIL | 13 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-12 | PT-TRIAZINE-SOIL | 14 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-13 | PT-PAH-SOIL | 15 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-14 | PT-DIES-SOIL | 16 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-15 | PT-GAS-SOIL | 17 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-16 | PT-NJEPH-SOIL | 18 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-17 | PT-HERB-SOIL | 19 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-18 | PT-PCB-SOIL | 20 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-19 | PT-PCBO-SOIL | 21 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-20 | PT-PEST-SOIL | 22 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-21 | PT-CHLR-SOIL | 23 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-22 | PT-TXP-SOIL | 24 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-23 | PT-VOA-SOIL | 25 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4495-24 | PT-SOL-SOIL | 26 | 0.92 | 8.80 | 9.72 | 7.58 | 75.7 | |
| P4495-25 | PT-NO2-SOIL | 27 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | |
| P4508-01 | TP-3 | 28 | 1.14 | 8.38 | 9.52 | 8.64 | 89.5 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 10/25/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 10/23/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:20
**Out Date:** 10/24/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133085

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P4508-02 | TP-3-EPH | 29 | 1.15 | 8.81 | 9.96 | 9.22 | 91.6 | |
| P4508-03 | TP-3-VOC | 30 | 1.15 | 8.66 | 9.81 | 8.88 | 89.3 | |
| P4508-05 | BP-F23 | 31 | 1.15 | 8.82 | 9.97 | 9.22 | 91.5 | |
| P4508-06 | BP-F23-EPH | 32 | 1.14 | 8.83 | 9.97 | 9.29 | 92.3 | |
| P4508-07 | BP-F23-VOC | 33 | 1.15 | 8.40 | 9.55 | 8.61 | 88.8 | |
| P4508-09 | BP-F22 | 34 | 1.18 | 8.78 | 9.96 | 9.15 | 90.8 | |
| P4508-10 | BP-F22-EPH | 35 | 1.15 | 8.70 | 9.85 | 8.98 | 90.0 | |
| P4508-11 | BP-F22-VOC | 36 | 1.16 | 8.60 | 9.76 | 8.68 | 87.4 | |
| P4509-02 | AU-06-10232024 | 37 | 1.12 | 8.82 | 9.94 | 9.44 | 94.3 | |
| P4510-01 | FDH119M-1-1 | 38 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-02 | FDH119M-1-2 | 39 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-03 | BC271327-1-1 | 40 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-04 | BC271327-1-2 | 41 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-05 | BC271327-2-1 | 42 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-06 | BC271327-2-2 | 43 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-07 | FDA886K-1-1 | 44 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-08 | FDA886K-1-2 | 45 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-09 | FDA886K-2-1 | 46 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-10 | FDA886K-2-2 | 47 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-11 | HID111K-1-1 | 48 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-12 | HID111K-1-2 | 49 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-13 | HID111K-2-1 | 50 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-14 | HID111K-2-2 | 51 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-15 | HID111K-3-1 | 52 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-16 | HID111K-3-2 | 53 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-17 | FDA563W-1-1 | 54 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-18 | FDA563W-1-2 | 55 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |
| P4510-19 | FDA563W-2-1 | 56 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | pilc |

Alliance TECHNICAL GROUP

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 10/25/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:25
**In Date:** 10/23/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:20
**Out Date:** 10/24/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133085

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P4510-20 | FDA563W-2-2 | 57 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4510-21 | JEC128C-1-1 | 58 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4510-22 | JEC128C-1-2 | 59 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4510-23 | JEC128C-2-1 | 60 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4510-24 | JEC128C-2-2 | 61 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4511-02 | 267 | 62 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| P4512-03 | VNJ-212 | 63 | 1.15 | 8.81 | 9.96 | 9.66 | 96.6 | |
| P4512-04 | VNJ-212-E2 | 64 | 1.16 | 8.48 | 9.64 | 9.39 | 97.1 | |
| P4513-01 | D3683 | 65 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oil sample |
| P4513-02 | D3694 | 66 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| P4513-03 | D3695 | 67 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |
| P4514-01 | BC274653-1-1 | 68 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4514-02 | BC274653-1-2 | 69 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4514-03 | BC274767-1-1 | 70 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4514-04 | BC274767-1-2 | 71 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4514-05 | BC274767-2-1 | 72 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4514-06 | BC274767-2-2 | 73 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oilc |
| P4515-01 | CHVB0783 | 74 | 1.15 | 8.83 | 9.98 | 5.28 | 46.8 | |
| P4516-01 | 72-11986 | 75 | 1.12 | 8.67 | 9.79 | 8.93 | 90.1 | |
| P4517-01 | NASSAU-ST-CO | 76 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CONCRETE sample |
| P4517-03 | S.JEFFERSON-CO-1 | 77 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CONCRETE sample |
| P4517-05 | S.JEFFERSON-CO-2 | 78 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CONCRETE sample |
| P4517-07 | FOREST-ST-CO | 79 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CONCRETE sample |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

MB133085

**WorkList Name :** %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4488-09 | HCC-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/22/2024 | Chemtech -SO |
| P4488-10 | HCC-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/22/2024 | Chemtech -SO |
| P4495-01 | PT-AN-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-02 | PT-CORR-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-03 | PT-CN-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-04 | PT-CN-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-05 | PT-FP-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-06 | PT-CR6-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-07 | PT-NUT-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-08 | PT-NUT-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-09 | PT-OGR-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-10 | PT-MET-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-11 | PT-BNA-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-12 | PT-TRIAZINE-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-13 | PT-PAH-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-14 | PT-DIES-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-15 | PT-GAS-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-16 | PT-NJEPH-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-17 | PT-HERB-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-18 | PT-PCB-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-19 | PT-PCBO-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |

**Date/Time** 10/23/24 16:00

**Raw Sample Received by:** JB (WC)

**Raw Sample Relinquished by:**

**Date/Time** 10/23/24 17:30

**Raw Sample Received by:**

**Raw Sample Relinquished by:** JB (WC)

P4495-PESTICIDE Group3

# WORKLIST(Hardcopy Internal Chain)

WB 133085

**WorkList Name :** %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4495-20 | PT-PEST-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-21 | PT-CHLR-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-22 | PT-TXP-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-23 | PT-VOA-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-24 | PT-SOL-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4495-25 | PT-NO2-SOIL | Solid | Percent Solids | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | Chemtech -SO |
| P4508-01 | TP-3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4508-02 | TP-3-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4508-03 | TP-3-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4508-05 | BP-F23 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4508-06 | BP-F23-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4508-07 | BP-F23-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4508-09 | BP-F22 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4508-10 | BP-F22-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4508-11 | BP-F22-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K63 | 10/23/2024 | Chemtech -SO |
| P4509-02 | AU-06-10232024 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-01 | FDH119M-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-02 | FDH119M-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-03 | BC271327-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-04 | BC271327-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-05 | BC271327-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |

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**Date/Time** 10/23/24 16:00

**Raw Sample Received by:** (WC)

**Raw Sample Relinquished by:**

**Date/Time** 10/23/24 17:30

**Raw Sample Received by:**

**Raw Sample Relinquished by:** (WC)

P4495-PESTICIDE Group3

# WORKLIST(Hardcopy Internal Chain)

JD 133085

**WorkList Name :** %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4510-06 | BC271327-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-07 | FDA886K-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-08 | FDA886K-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-09 | FDA886K-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-10 | FDA886K-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-11 | HID111K-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-12 | HID111K-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-13 | HID111K-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-14 | HID111K-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-15 | HID111K-3-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-16 | HID111K-3-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-17 | FDA563W-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-18 | FDA563W-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-19 | FDA563W-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-20 | FDA563W-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-21 | JEC128C-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-22 | JEC128C-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-23 | JEC128C-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4510-24 | JEC128C-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4511-02 | 267 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4512-03 | VNJ-212 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |

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**Date/Time** 10/23/24 1610

**Raw Sample Received by:** JD CWC

**Raw Sample Relinquished by:** CP

**Date/Time** 10/23/24 1730

**Raw Sample Received by:** CP

**Raw Sample Relinquished by:** JD CWC



19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

# WORKLIST(Hardcopy Internal Chain)

WB 133085

**WorkList Name :** %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4512-04 | VNJ-212-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4513-01 | D3683 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4513-02 | D3694 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4513-03 | D3695 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4514-01 | BC274653-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K31 | 10/23/2024 | Chemtech -SO |
| P4514-02 | BC274653-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K31 | 10/23/2024 | Chemtech -SO |
| P4514-03 | BC274767-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K31 | 10/23/2024 | Chemtech -SO |
| P4514-04 | BC274767-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K31 | 10/23/2024 | Chemtech -SO |
| P4514-05 | BC274767-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K31 | 10/23/2024 | Chemtech -SO |
| P4514-06 | BC274767-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K31 | 10/23/2024 | Chemtech -SO |
| P4515-01 | CHVB0783 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K62 | 10/23/2024 | Chemtech -SO |
| P4516-01 | 72-11986 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K62 | 10/23/2024 | Chemtech -SO |
| P4517-01 | NASSAU-ST-CO | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4517-03 | S.JEFFERSON-CO-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4517-05 | S.JEFFERSON-CO-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |
| P4517-07 | FOREST-ST-CO | Solid | Percent Solids | Cool 4 deg C | PSEG03 | K61 | 10/23/2024 | Chemtech -SO |



**Date/Time** 10/23/24 1610

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

**Date/Time** 10/23/24 1730

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

Alliance TECHNICAL GROUP

# EXTRACTION LOGPAGE

PB164400

**SOP ID:** M3541-ASE Extraction-14

**Clean Up SOP #:** Florisil

**Matrix :** Solid

**Weigh By:** EH

**Balance check:** RJ

**Balance ID:** EX-SC-2

**pH Strip Lot#:** N/A

**Extraction By:** RJ

**Filter By:** RJ

**pH Meter ID:** N/A

**Hood ID:** 3,7

**Extraction Start Date :** 10/25/2024

**Extraction Start Time :** 09:11

**Extraction End Date :** 10/25/2024

**Extraction End Time :** 12:10

**Concentration By:** EH

**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 | 2.0ML | 1000 PPB | PP23533 |
| Surrogate | 1.0ML | 200 PPB | PP23858 |
| 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 |
|---|---|---|
| Hexane/Acetone/1:1 | N/A | EP2539 |
| Baked Na2SO4 | N/A | EP2551 |
| Sand | N/A | E2865 |
| Hexane | N/A | E3819 |
| Florisil | N/A | E3806 |
| 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:**

40 ML Vial lot# 03-40 BTS721.

**KD Bath ID:** N/A

**KD Bath Temperature:** N/A

**Envap ID:** NEVAP-02

**Envap Temperature:** 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/25/24 | RP (Ext. Lab) | AJI TEST PCR Lab |
| 12:15 | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB164400**

**Analytical Method:** M3541-ASE Extraction-14 **Concentration Date:** 10/25/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB164400BL | PBLK400 | PESTICIDE Group3 | 30.03 | N/A | RUPESH | ritesh | 10 | | | U5-1 |
| PB164400BS | PLCS400 | PESTICIDE Group3 | 30.02 | N/A | RUPESH | ritesh | 10 | | | 2 |
| P4495-22 | PT-TXP-SOIL | PESTICIDE Group3 | 30.05 | N/A | RUPESH | ritesh | 10 | | | 3 |

10/25/24

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

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4531PEST **WorkList ID :** 184768 **Department :** Extraction **Date :** 10-25-2024 08:52:19

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4495-20 | PT-PEST-SOIL | Solid | PESTICIDE Group1 | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | 8081B |
| P4495-21 | PT-CHLR-SOIL | Solid | PESTICIDE Group2 | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | 8081B |
| P4495-22 | PT-TXP-SOIL | Solid | PESTICIDE Group3 | Cool 4 deg C | CHEM02 | QA Of | 10/21/2024 | 8081B |
| P4531-01 | OR-03-102424 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG05 | K61 | 10/24/2024 | 8081B |
| P4545-01 | VNJ-215 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | K61 | 10/24/2024 | 8081B |
| P4547-01 | BP-F-21 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | K51 | 10/24/2024 | 8081B |
| P4547-05 | BP-F-20 | Solid | Pesticide-TCL | Cool 4 deg C | PSEG03 | K51 | 10/24/2024 | 8081B |

**Date/Time** 10/25/24 9:10
**Raw Sample Received by:** RT (Expt (ccs)
**Raw Sample Relinquished by:** CP SM



**Date/Time** 10/25/24 9:30
**Raw Sample Received by:** CP SM
**Raw Sample Relinquished by:** RT (Expt (ccs)

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P4495-PESTICIDE Group3

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# Prep Standard - Chemical Standard Summary

**Order ID :** P4495

**Test :** PESTICIDE Group3

**Prepbatch ID :** PB164400,

**Sequence ID/Qc Batch ID:** PL103124,

**Standard ID :**
EP2539,EP2551,PP23517,PP23533,PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683,PP23686,PP23687,PP23690,PP23693,PP23695,PP23698,PP23733,PP23793,PP23858,

**Chemical ID :**
E2865,E3551,E3769,E3770,E3792,E3793,E3805,E3806,E3815,E3819,P11146,P11896,P13036,P13039,P13244,P13349,P13350,P13351,P13358,P13359,P13402,

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Fax : 908 789 8922

# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 230 | 1:1ACETONE/HEXANE | EP2539 | 09/17/2024 | 03/11/2025 | Rajesh Parikh | None | None | RUPESHKUMAR SHAH 09/17/2024 |

**FROM** 4000.00000ml of E3792 + 4000.00000ml of E3793 = Final Quantity: 8000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3923 | Baked Sodium Sulfate | EP2551 | 10/18/2024 | 01/03/2025 | Rajesh Parikh | Extraction_SCALE_2 (EX-SC-2) | None | RUPESHKUMAR SHAH 10/18/2024 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4027 | Pesticide resolution Check Mixture 8081 | PP23517 | 07/12/2024 | 01/12/2025 | Abdul Mirza | None | None | Ankita Jodhani 07/16/2024 |

**FROM** 1.00000ml of E3770 + 99.00000ml of P13244 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3878 | 1000 PPB TOXAPHENE SPIKE (RESTEK) | PP23533 | 07/26/2024 | 12/20/2024 | Abdul Mirza | None | None | Ankita Jodhani 07/30/2024 |

**FROM** 0.10000ml of P13358 + 99.90000ml of E3769 = Final Quantity: 100.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 84 | Pest/PCB Surrogate Stock 20 PPM | PP23673 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 1.00000ml of P13349 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3629 | 20 PPM PEST stock Solution 1st source(RESTEK) | PP23674 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 1.00000ml of P13036 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1472 | 20 PPM Pest Stock Solution 2nd Source | PP23675 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 1.00000ml of P13039 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1273 | 20 PPM Mirex Stock (Primary Source) | PP23676 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3663 | 20 PPM MIREX Stock STD (Secondary source) | PP23677 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3630 | 100/100 PPB PEST Working std.1st Source(RESTEK) | PP23678 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23674 + 0.50000ml of PP23676 = Final Quantity: 100.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 80 | 100/100 PPB Pesticide Working Solution 2nd Source | PP23679 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23675 + 0.50000ml of PP23677 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 386 | 1000/100 PPB Chlordane STD (Restek) | PP23680 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3746 | 1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE | PP23681 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 383 | 1000/100 PPB Toxaphene STD (Restek) | PP23682 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.10000ml of P13359 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 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 |
|---|---|---|---|---|---|---|---|---|
| 3669 | 1000/100 PPB TOXAPHENE STD 2nd source (RESTEK) | PP23683 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.10000ml of P13402 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3632 | 50 PPB ICAL PEST STD(RESTEK) | PP23686 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23678 = Final Quantity: 1.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3988 | 50 PPB PEST ICV STD(RESTEK) | PP23687 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23679 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 529 | CHLOR 500 PPB STD | PP23690 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23680 = Final Quantity: 1.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 532 | CHLOR 500 PPB ICV STD | PP23693 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23681 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 534 | TOX 500 PPB STD | PP23695 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23682 = Final Quantity: 1.000 ml

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# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3670 | TOX 500 PPB ICV std ( RESTEK) | PP23698 | 09/21/2024 | 03/11/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/01/2024 |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23683 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 84 | Pest/PCB Surrogate Stock 20 PPM | PP23733 | 10/03/2024 | 03/30/2025 | Ankita Jodhani | None | None | Yogesh Patel 10/03/2024 |

**FROM** 1.00000ml of P13350 + 9.00000ml of E3805 = 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 |
|---|---|---|---|---|---|---|---|---|
| 518 | Pest/PCB I.BLK 20 PPB | PP23793 | 10/03/2024 | 03/30/2025 | Ankita Jodhani | None | None | Yogesh Patel 10/03/2024 |

**FROM** 99.90000ml of E3805 + 0.10000ml of PP23733 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 465 | 200 PPB Pest/PCB Surrogate Spike | PP23858 | 10/14/2024 | 04/04/2025 | Abdul Mirza | None | None | Ankita Jodhani 10/14/2024 |

**FROM** 1.00000ml of P13351 + 999.00000ml of E3815 = Final Quantity: 1000.000 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-3382-05 / Sand, Purified (cs/4x2.5kg) | 0000243821 | 12/31/2024 | 04/30/2020 / RAJESH | 04/28/2020 / RAJESH | E2865 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| 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-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H1462005 | 01/12/2025 | 07/12/2024 / | 07/02/2024 / Rajesh | E3769 |

| 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 | 05/09/2025 | 07/12/2024 / Rajesh | 07/02/2024 / Rajesh | E3770 |

| 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 | 03/11/2025 | 09/12/2024 / Rajesh | 09/11/2024 / Rajesh | E3792 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | 9005-05 / Acetone Ultra (cs/4x4L) | 24E0761004 | 03/11/2025 | 09/12/2024 / Rajesh | 09/11/2024 / Rajesh | E3793 |

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-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 24C1862008 | 03/30/2025 | 09/30/2024 / Rajesh | 09/25/2024 / Rajesh | E3805 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Agela Technologies Inc. | FS0006 / Cleanert Florisil cartridge | M06518 | 03/25/2025 | 10/01/2024 / Rajesh | 09/25/2024 / Rajesh | E3806 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 04/04/2025 | 10/04/2024 / Rajesh | 10/04/2024 / Rajesh | E3815 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 24G1962003 | 04/15/2025 | 10/15/2024 / Rajesh | 10/09/2024 / Rajesh | E3819 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 79136 / Mirex, 1000 ug/ml | 102821 | 03/21/2025 | 09/21/2024 / Abdul | 10/29/2021 / Abdul | P11146 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32021 / Chlordane Std. | A0181737 | 03/21/2025 | 09/21/2024 / Abdul | 06/17/2022 / Abdul | P11896 |

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 | 32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul | A0200423 | 03/21/2025 | 09/21/2024 / Abdul | 12/26/2023 / Abdul | P13036 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul | A0199099 | 03/21/2025 | 09/21/2024 / Abdul | 12/26/2023 / Abdul | P13039 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 19161 / 8081 pesticide resolution check mixture | 013124 | 01/12/2025 | 07/12/2024 / Abdul | 02/09/2024 / Abdul | P13244 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0206810 | 03/21/2025 | 09/21/2024 / Abdul | 04/22/2024 / Abdul | P13349 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0206810 | 04/03/2025 | 10/03/2024 / Ankita | 04/22/2024 / Abdul | P13350 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0206810 | 04/14/2025 | 10/14/2024 / Abdul | 04/22/2024 / Abdul | P13351 |

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 | 32005 / Toxaphene Standard | A0203038 | 01/01/1900 | 01/01/1900 / Abdul | 05/03/2024 / Abdul | P13358 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32005 / Toxaphene Standard | A0203830 | 03/21/2025 | 09/21/2024 / Abdul | 05/03/2024 / Abdul | P13359 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32005 / Toxaphene Standard | A0203038 | 03/21/2025 | 09/21/2024 / Abdul | 05/15/2024 / Abdul | P13402 |

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Substances Soluble in HCl | <= 0.16 % | 0.01 |

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

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

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 7/21/24

E 3769

Ken Koehnlein
Sr. Manager, Quality Assurance

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

Rec'd by RP on 7/21/24

E 3769

Ken Koehnlein
Sr. Manager, Quality Assurance

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 09/11/24

E 3792

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected for water) | ≥ 99.5 % | 99.8 % |
| Color (APHA) | ≤ 10 | < 5 |
| Residue after Evaporation | ≤ 5 ppm | < 1 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.1 |
| Titrable Base (µeq/g) | ≤ 0.5 | 0.1 |
| Water ($H_2O$) | ≤ 0.5 % | 0.1 % |
| Solubility in $H_2O$ | Passes Test | Passes Test |
| Chloride (Cl) | ≤ 0.2 ppm | < 0.2 ppm |
| Phosphate ($PO_4$) | ≤ 0.05 ppm | < 0.05 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 50.0 ppb | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 5.0 ppb |
| Trace Impurities – Barium (Ba) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities – Beryllium (Be) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Bismuth (Bi) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities – Boron (B) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Calcium (Ca) | ≤ 25.0 ppb | 3.6 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Copper (Cu) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Gallium (Ga) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Germanium (Ge) | ≤ 10.0 ppb | < 10.0 ppb |
| Trace Impurities – Gold (Au) | ≤ 20 ppb | < 5 ppb |
| Trace Impurities – Iron (Fe) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities – Lead (Pb) | ≤ 10.0 ppb | < 10.0 ppb |
| Trace Impurities – Lithium (Li) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 20 ppb | < 1 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 10.0 ppb | < 1.0 ppb |

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793



For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Molybdenum (Mo) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities – Niobium (Nb) | ≤ 50.0 ppb | < 1.0 ppb |
| Trace Impurities – Potassium (K) | ≤ 10.0 ppb | < 10.0 ppb |
| Trace Impurities – Silicon (Si) | ≤ 50 ppb | < 10 ppb |
| Trace Impurities – Silver (Ag) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Sodium (Na) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Tantalum (Ta) | ≤ 50.0 ppb | < 5.0 ppb |
| Trace Impurities – Thallium (Tl) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities – Tin (Sn) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities – Titanium (Ti) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Vanadium (V) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 20.0 ppb | 7.9 ppb |
| Trace Impurities – Zirconium (Zr) | ≤ 10.0 ppb | < 1.0 ppb |
| Particle Count – 0.5 µm and greater (Rion KS42AF) | ≤ 100 par/ml | 8 par/ml |
| Particle Count – 1.0 µm and greater (Rion KS42AF) | ≤ 8 par/ml | 2 par/ml |

>>> Continued on page 3 >>>

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

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

Michelle Bales
Sr. Manager, Quality Assurance

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

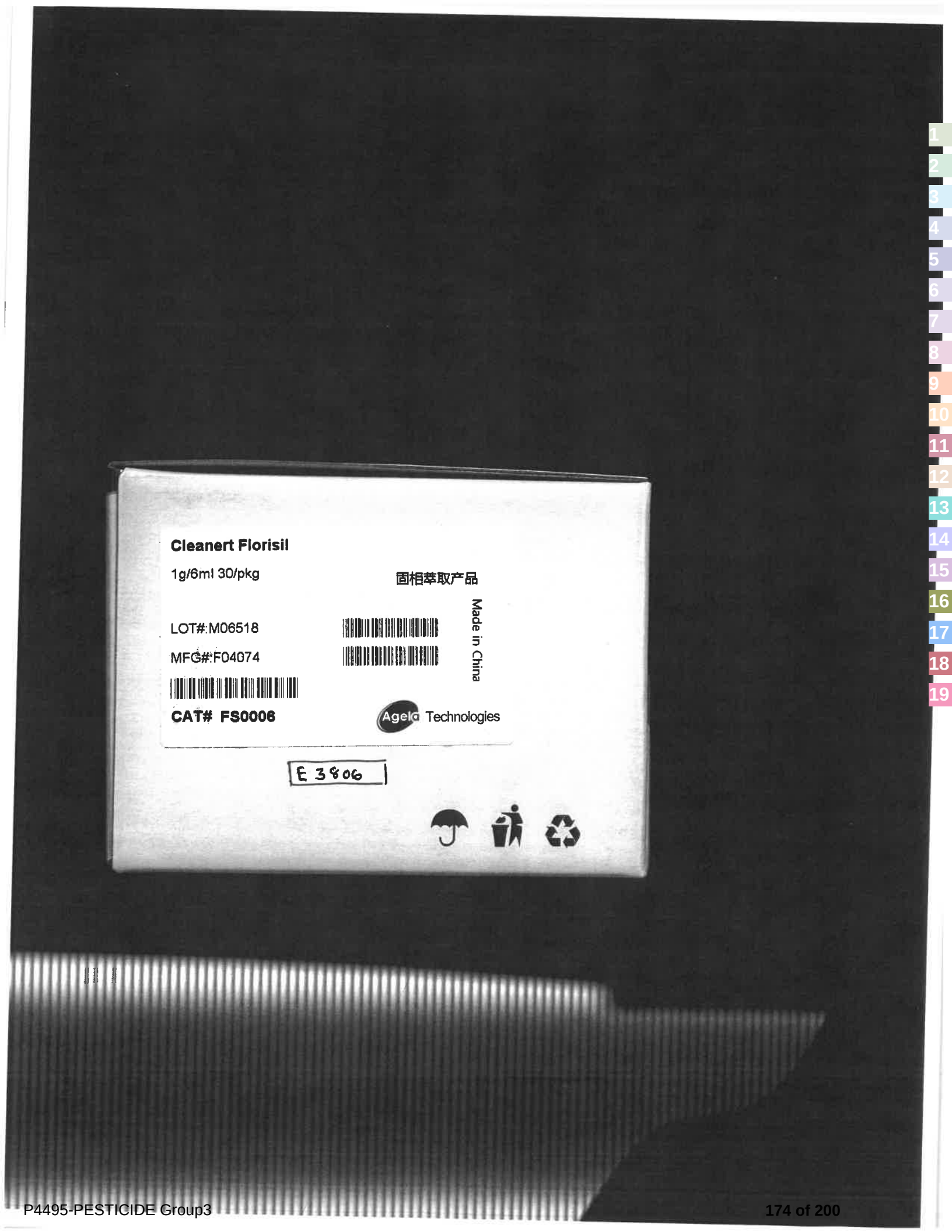
Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 9/25/24

E3805

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production


Cleanert Florisil
1g/6ml 30/pkg
固相萃取产品
LOT#:M06518
MFG#:F04074
CAT# FS0006
Made in China
Agela Technologies
E3806

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 99.8 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | 0.2 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

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 10/09/24

E 3819

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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# 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. :** 32021 **Lot No.:** A0181737

**Description :** Chlordane Standard

Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

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

**Expiration Date :** May 31, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | Chlordane | 1,006.0 µg/mL | +/- 5.9753 | µg/mL | Gravimetric |
| | **CAS #** 57-74-9 (Lot 978545) | | +/- 31.8975 | µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.6615 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P 11892 (5)
↓
P 11896

06/17/2022

**Tech Tips:**
CAS #57-74-9 nomenclature is based on EPA method 8081B.

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

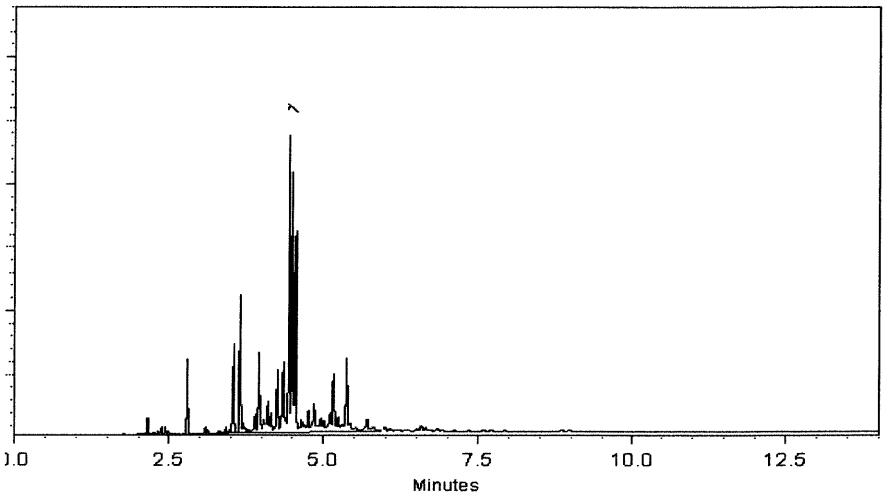
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




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.

Josh McCloskey - Operations Technician I

**Date Mixed:** 11-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

**Date Passed:** 24-Feb-2022

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

P 11892 | (5)
↓
P 11896

06/17/2022

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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

P130397 } 5
↓
P130431

**Catalog No. :** 32291 **Lot No.:** A0199099

**Description :** Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

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

**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

12.26.2023

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | alpha-BHC | 319-84-6 | 14434500 | 99% | 200.0 µg/mL | +/- 8.9732 |
| 2 | gamma-BHC (Lindane) | 58-89-9 | 14184400 | 98% | 200.1 µg/mL | +/- 8.9762 |
| 3 | beta-BHC | 319-85-7 | BCCC6425 | 99% | 200.3 µg/mL | +/- 8.9844 |
| 4 | delta-BHC | 319-86-8 | 14450800 | 98% | 200.0 µg/mL | +/- 8.9740 |
| 5 | Heptachlor | 76-44-8 | 813251 | 99% | 200.1 µg/mL | +/- 8.9754 |
| 6 | Aldrin | 309-00-2 | 14389400 | 98% | 200.0 µg/mL | +/- 8.9718 |
| 7 | Heptachlor epoxide (isomer B) | 1024-57-3 | 14448800 | 99% | 200.1 µg/mL | +/- 8.9754 |
| 8 | trans-Chlordane | 5103-74-2 | 32943 | 98% | 199.9 µg/mL | +/- 8.9696 |
| 9 | cis-Chlordane | 5103-71-9 | 31766 | 98% | 200.1 µg/mL | +/- 8.9762 |
| 10 | Endosulfan I | 959-98-8 | BCCF4060 | 99% | 200.1 µg/mL | +/- 8.9754 |
| 11 | 4,4'-DDE | 72-55-9 | GHYQG | 99% | 200.1 µg/mL | +/- 8.9777 |
| 12 | Dieldrin | 60-57-1 | 11129900 | 98% | 200.0 µg/mL | +/- 8.9718 |
| 13 | Endrin | 72-20-8 | 14123200 | 98% | 199.9 µg/mL | +/- 8.9696 |
| 14 | 4,4'-DDD | 72-54-8 | HAN02 | 99% | 200.1 µg/mL | +/- 8.9777 |
| 15 | Endosulfan II | 33213-65-9 | 14374700 | 99% | 200.0 µg/mL | +/- 8.9732 |
| 16 | 4,4'-DDT | 50-29-3 | 230410JLMA | 98% | 200.0 µg/mL | +/- 8.9718 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | Endrin aldehyde | 7421-93-4 | 30720 | 98% | 200.1 | µg/mL | +/- 8.9784 |
| 18 | Endosulfan sulfate | 1031-07-8 | BCCH9010 | 99% | 200.0 | µg/mL | +/- 8.9732 |
| 19 | Methoxychlor | 72-43-5 | 13668200 | 99% | 200.1 | µg/mL | +/- 8.9777 |
| 20 | Endrin ketone | 53494-70-5 | 1-ABS-16-7 | 98% | 200.0 | µg/mL | +/- 8.9740 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane/Toluene (50:50)
**CAS #** 110-54-3/108-88-3
**Purity** 99%

P 13039 5
↓
P 13043 1
12/26/23

## Quality Confirmation Test

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
150°C to 300°C
@ 4°C/min. ( hold 5 min.)

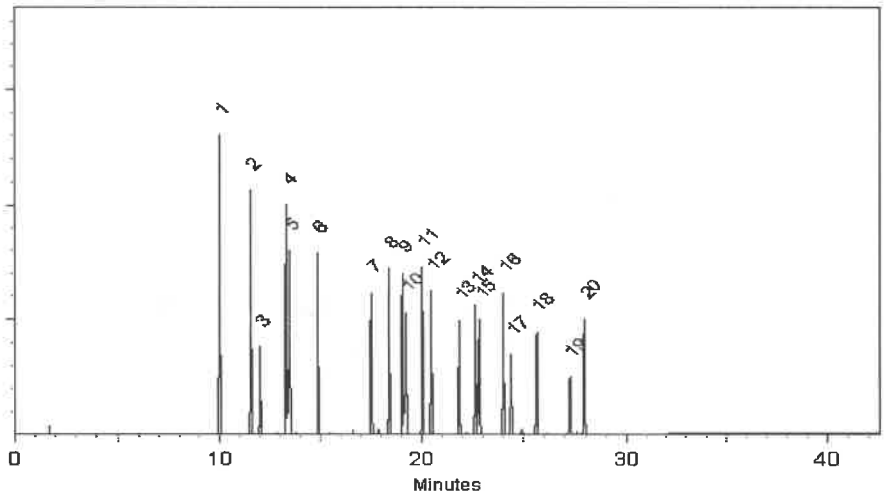
**Inj. Temp:**
200°C

**Det. Temp:**
300°C

**Det. Type:**
ECD

**Split Vent:**
Split ratio 50:1

**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.

Josh McCloskey - Operations Technician I

**Date Mixed:** 19-Jun-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 23-Jun-2023

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

**Absolute Standards, Inc.**
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www.absolutestandards.com

***Certified Reference Material CRM***

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AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 79136
Lot Number: 102821
Description: Mirex

Expiration Date: 102826
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

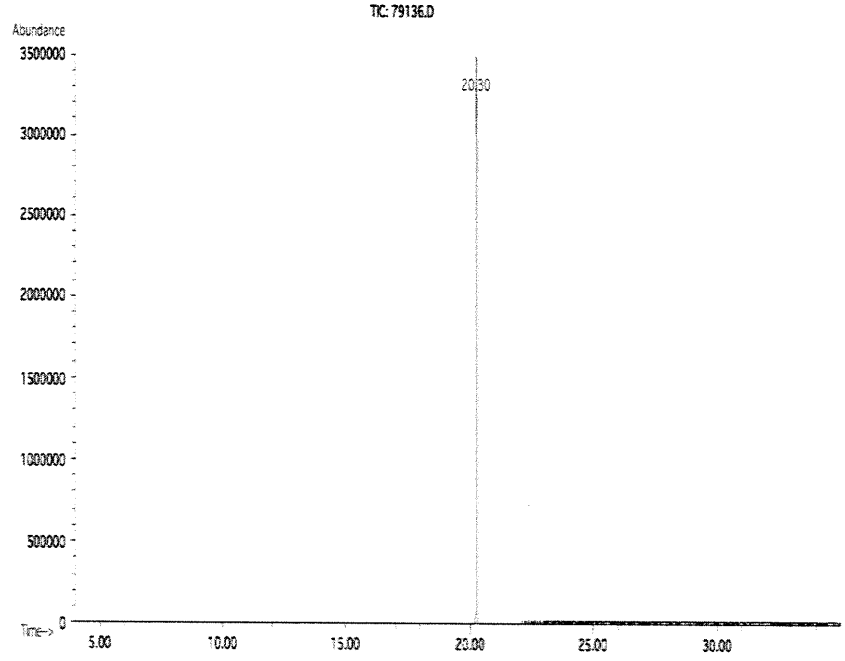
**Solvent(s):** **Lot#**
Acetone 81025

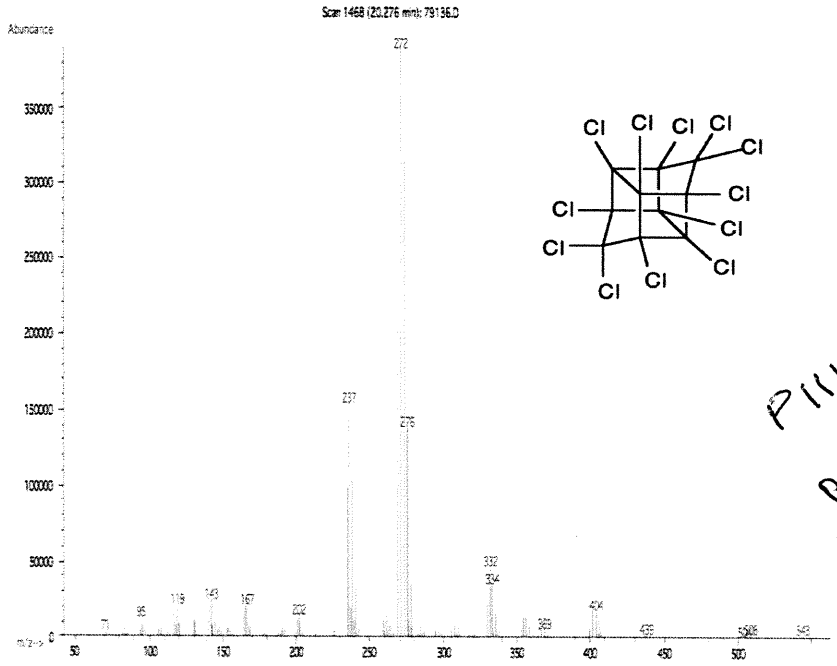
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.006 Flask Uncertainty

| | | |
|---|---|---|
| Eli Aliaga | 102821 | |
| Formulated By: | Eli Aliaga | DATE |
| Pedro Rentas | 102821 | |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Mirex | 437 | 9492400 | 1000 | 99.4 | 0.5 | 0.05034 | 0.05039 | 1000.9 | 10.3 | 2385-85-5 | N/A | orl-rat 306mg/kg |

**Method GC7MSD-1.M**: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.







P1114Z
To
P1114G
AR
11/02/21

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA 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.*

P 13034 5
P 13038 1
12.26.2023

**Catalog No. :** 32291 **Lot No.:** A0200423

**Description :** Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

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

**Expiration Date :** July 31, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | alpha-BHC | 319-84-6 | 14434500 | 99% | 200.5 µg/mL | +/- 8.9956 |
| 2 | gamma-BHC (Lindane) | 58-89-9 | 14184400 | 98% | 199.9 µg/mL | +/- 8.9696 |
| 3 | beta-BHC | 319-85-7 | BCCC6425 | 99% | 200.0 µg/mL | +/- 8.9732 |
| 4 | delta-BHC | 319-86-8 | 14450800 | 98% | 199.9 µg/mL | +/- 8.9696 |
| 5 | Heptachlor | 76-44-8 | 813251 | 99% | 202.0 µg/mL | +/- 9.0629 |
| 6 | Aldrin | 309-00-2 | 14389400 | 98% | 200.9 µg/mL | +/- 9.0136 |
| 7 | Heptachlor epoxide (isomer B) | 1024-57-3 | 14448800 | 99% | 200.0 µg/mL | +/- 8.9732 |
| 8 | trans-Chlordane | 5103-74-2 | 34616 | 99% | 200.5 µg/mL | +/- 8.9956 |
| 9 | cis-Chlordane | 5103-71-9 | 31766 | 98% | 201.4 µg/mL | +/- 9.0356 |
| 10 | Endosulfan I | 959-98-8 | BCCF4060 | 99% | 200.0 µg/mL | +/- 8.9732 |
| 11 | 4,4'-DDE | 72-55-9 | GHYQG | 99% | 201.5 µg/mL | +/- 9.0405 |
| 12 | Dieldrin | 60-57-1 | 14515000 | 98% | 199.9 µg/mL | +/- 8.9696 |
| 13 | Endrin | 72-20-8 | 14485300 | 98% | 200.4 µg/mL | +/- 8.9916 |
| 14 | 4,4'-DDD | 72-54-8 | HAN02 | 99% | 200.5 µg/mL | +/- 8.9956 |
| 15 | Endosulfan II | 33213-65-9 | 14374700 | 99% | 200.0 µg/mL | +/- 8.9732 |
| 16 | 4,4'-DDT | 50-29-3 | 230410JLMA | 98% | 201.9 µg/mL | +/- 9.0575 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 17 | Endrin aldehyde | 7421-93-4 | 30720 | 98% | 201.4 | µg/mL | +/- 9.0356 |
| 18 | Endosulfan sulfate | 1031-07-8 | BCCH9010 | 99% | 200.5 | µg/mL | +/- 8.9956 |
| 19 | Methoxychlor | 72-43-5 | 14563200 | 98% | 200.9 | µg/mL | +/- 9.0136 |
| 20 | Endrin ketone | 53494-70-5 | 14537700 | 98% | 199.9 | µg/mL | +/- 8.9696 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane/Toluene (50:50)
**CAS #** 110-54-3/108-88-3
**Purity** 99%

P13034 ↓ P13038 ) 5 1

12/26/2023

## Quality Confirmation Test

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
150°C to 300°C
@ 4°C/min. ( hold 5 min.)

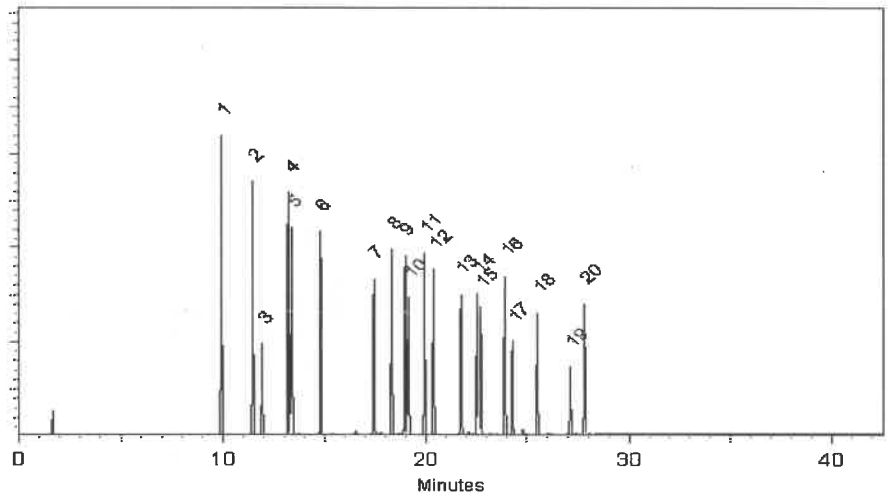
**Inj. Temp:**
200°C

**Det. Temp:**
300°C

**Det. Type:**
ECD

**Split Vent:**
Split ratio 50:1

**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.

Sam Moodler - Operations Tech I

**Date Mixed:** 31-Jul-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 03-Aug-2023

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

**Absolute Standards, Inc.**
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www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 19161
**Lot Number:** 013124
**Description:** CLP Pesticides & PCB's Resolution Check Standard
9 components

| Solvent(s): | Lot# | |
|---|---|---|
| Hexane | 273615 | (50%) |
| Toluene | 28508 | (50%) |

**Expiration Date:** 013129
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** Varied
**NIST Test ID#:** 6UTB

Volume(s) shown below were combined and diluted to (mL): 100.0

5E-05 Balance Uncertainty
0.021 Flask Uncertainty

| | | | |
|---|---|---|---|
| Formulated By: | Lawrence Barry | 013124 | DATE |
| Reviewed By: | Pedro L. Rentas | 013124 | DATE |

| | Compound | Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Initial Conc.(ug/mL) | Final Conc.(ug/mL) | Expanded Uncertainty (+/-) µg/mL | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | trans-Chlordane | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 101.3 | 1.0 | 0.02 | 5103-74-2 | 0.5mg/m3 (skin) | orl-rat 500mg/kg |
| 2. | Endosulfan I | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 101.3 | 1.0 | 0.02 | 959-98-8 | 0.1mg/m3 (skin) | orl-rat 18mg/kg |
| 3. | 4,4'-DDE | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 201.6 | 2.0 | 0.03 | 72-55-9 | N/A | orl-rat 880mg/kg |
| 4. | Dieldrin | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.8 | 2.0 | 0.03 | 60-57-1 | 0.25mg/m3 (skin) | orl-rat 38300ug/kg |
| 5. | Endosulfan sulfate | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 204.2 | 2.0 | 0.03 | 1031-07-8 | N/A | orl-rat 18mg/kg |
| 6. | Endrin ketone | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.6 | 2.0 | 0.03 | 53494-70-5 | N/A | N/A |
| 7. | 4,4'-Methoxychlor | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 1000.7 | 10.0 | 0.09 | 72-43-5 | 10mg/m3 | orl-rat 6000mg/kg |
| 8. | 2,4,5,6-Tetrachloro-m-xylene | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.6 | 2.0 | 0.03 | 877-09-8 | N/A | N/A |
| 9. | Decachlorobiphenyl (209) | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.0 | 2.0 | 0.03 | 2051-24-3 | N/A | N/A |

P13243 & P13247 (5)

02/9/2024

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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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.**

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P13348 (10) → P13357

**Catalog No. :** 32000 **Lot No.:** A0206810

**Description :** Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

04/25/2024

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8 | RP220407 | 99% | 200.3 µg/mL | +/- 11.1143 |
| 2 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30638 | 99% | 200.6 µg/mL | +/- 11.1298 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone
**CAS #** 67-64-1
**Purity** 99%

**Tech Tips:**

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

# Quality Confirmation Test

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**
hellum-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

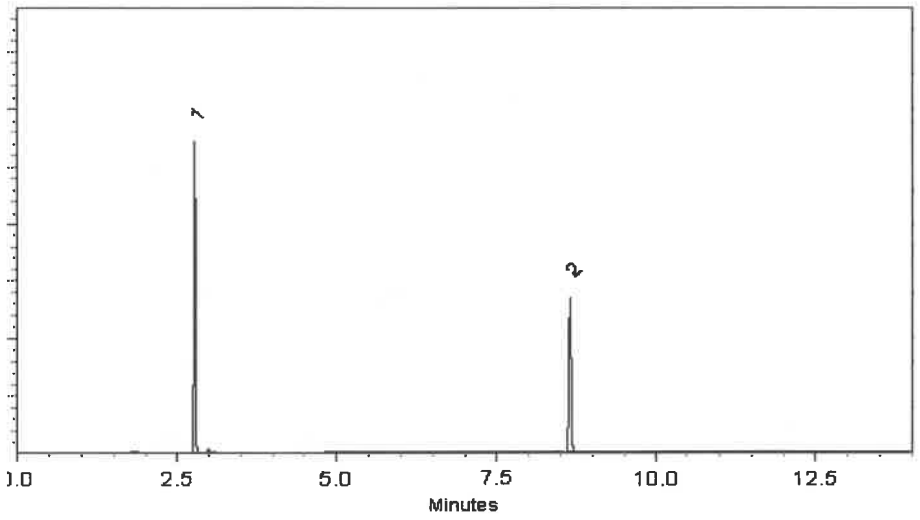
**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I  **Date Mixed:** 22-Jan-2024  **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC  **Date Passed:** 24-Jan-2024

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

P13348 (10)
↓
P13357
SALF
04/25/2025

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***chromatographic plus***

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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.*

P13348 (10)
↓
P13357

**Catalog No. :** 32000 **Lot No.:** A0206810

**Description :** Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

04/25/2024

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8 | RP220407 | 99% | 200.3 µg/mL | +/- 11.1143 |
| 2 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30638 | 99% | 200.6 µg/mL | +/- 11.1298 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone
**CAS #** 67-64-1
**Purity** 99%

**Tech Tips:**

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

# Quality Confirmation Test

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**
hellum-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

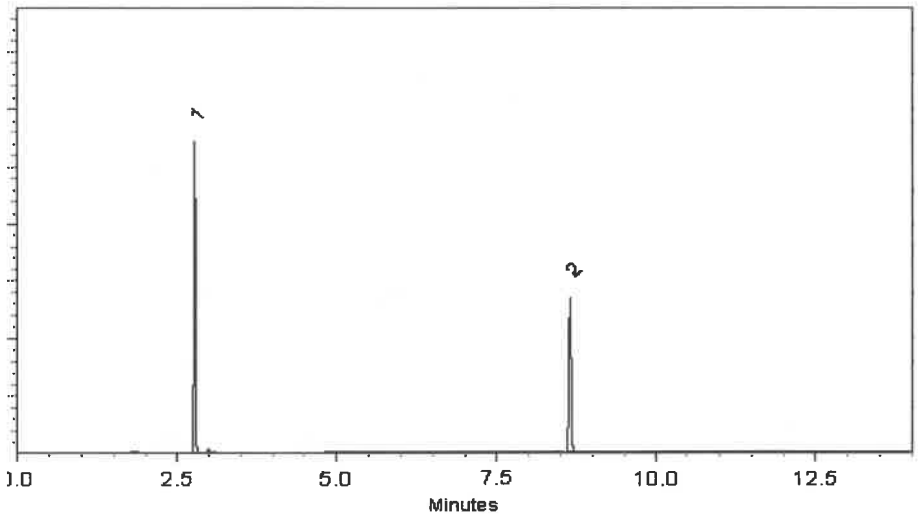
**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I  **Date Mixed:** 22-Jan-2024  **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC  **Date Passed:** 24-Jan-2024

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

P13348 (10)
↓
P13357

04/25/2025

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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.*

P13348 (10) → P13357

04/25/2024

**Catalog No. :** 32000 **Lot No.:** A0206810

**Description :** Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8 | RP220407 | 99% | 200.3 µg/mL | +/- 11.1143 |
| 2 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30638 | 99% | 200.6 µg/mL | +/- 11.1298 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone
**CAS #** 67-64-1
**Purity** 99%

**Tech Tips:**

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

# Quality Confirmation Test

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**
hellum-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

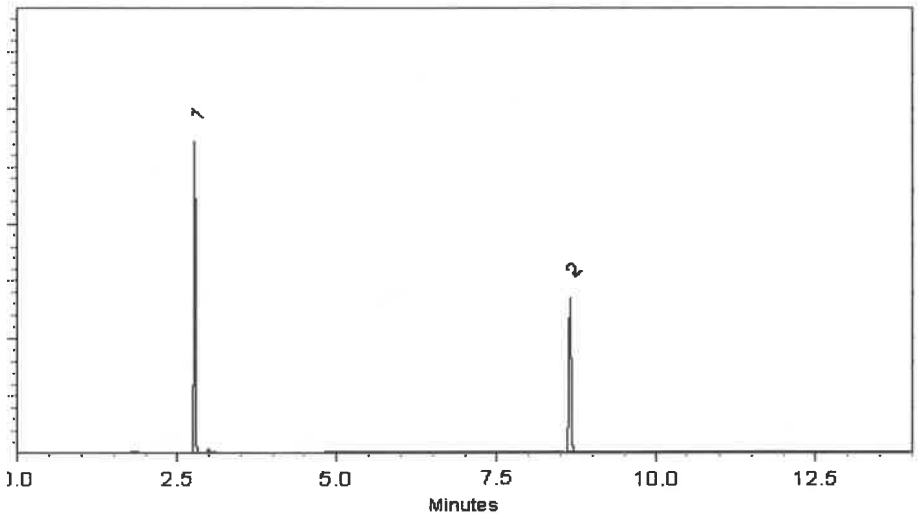
**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD

**Split Vent:**
10 ml/min.

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I  **Date Mixed:** 22-Jan-2024  **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC  **Date Passed:** 24-Jan-2024

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

P13348 (10)
↓
P13357
SALF
04/25/2025

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CERTIFIED REFERENCE MATERIAL

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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

**Catalog No. :** 32005 **Lot No.:** A0203038

**Description :** Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

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

**Expiration Date :** January 31, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Toxaphene | 8001-35-2 | 1051817 | ----% | 1,009.0 µg/mL | +/- 55.9920 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P13358 (12)
↓
P13369

05-06-2024

# Quality Confirmation Test

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

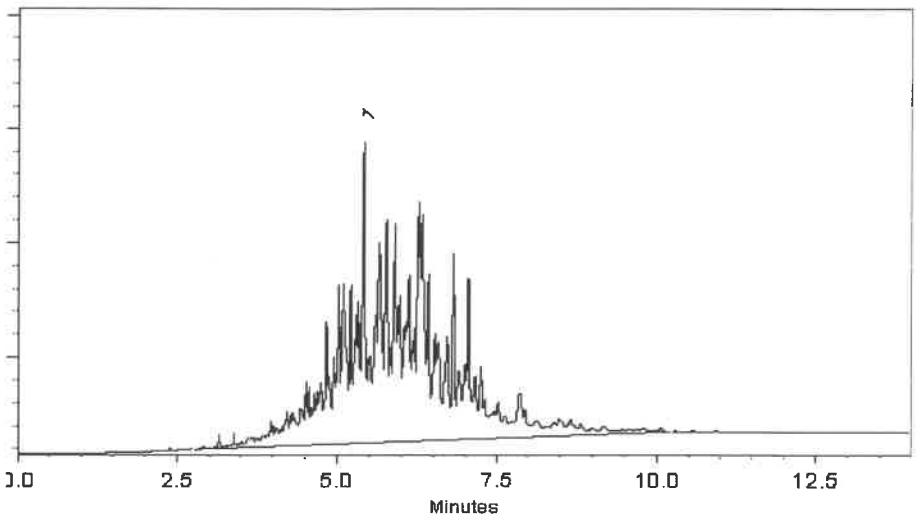
**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD

**Split Vent:**
300 ml/min.

**Inj. Vol**
0.2µl




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.

Dakota Parson - Operations Technician I **Date Mixed:** 10-Oct-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 16-Oct-2023

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

P13358 (12)

P13369

05-06-2024

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Certificate #3222.02

# Certificate of Analysis

***chromatographic plus***

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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

**Catalog No. :** 32005 **Lot No.:** A0203038

**Description :** Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

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

**Expiration Date :** January 31, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Toxaphene | 8001-35-2 | 1051817 | ----% | 1,009.0 µg/mL | +/- 55.9920 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P13358 (12)
↓
P13369

05-06-2024

# Quality Confirmation Test

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

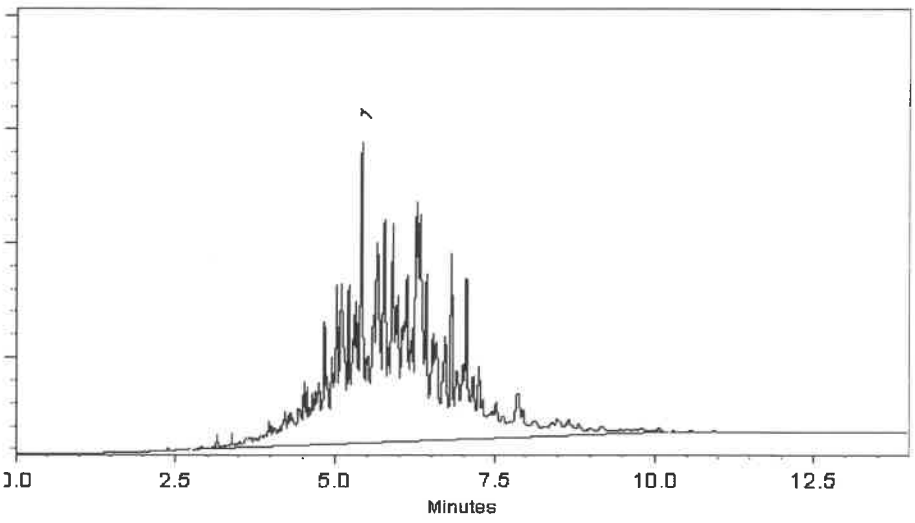
**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD

**Split Vent:**
300 ml/min.

**Inj. Vol**
0.2µl




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.

Dakota Parson - Operations Technician I **Date Mixed:** 10-Oct-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 16-Oct-2023

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

P13358 (12)

P13369

05-06-2024

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Testing Laboratory
Certificate #3222.02

# Certificate of Analysis

***chromatographic plus***

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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

P13402 & P13406 (5)

5/22/2021

**Catalog No. :** 32005 **Lot No.:** A0203038

**Description :** Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

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

**Expiration Date :** January 31, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Toxaphene | 8001-35-2 | 1051817 | ----% | 1,009.0 µg/mL | +/- 55.9920 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

# Quality Confirmation Test

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

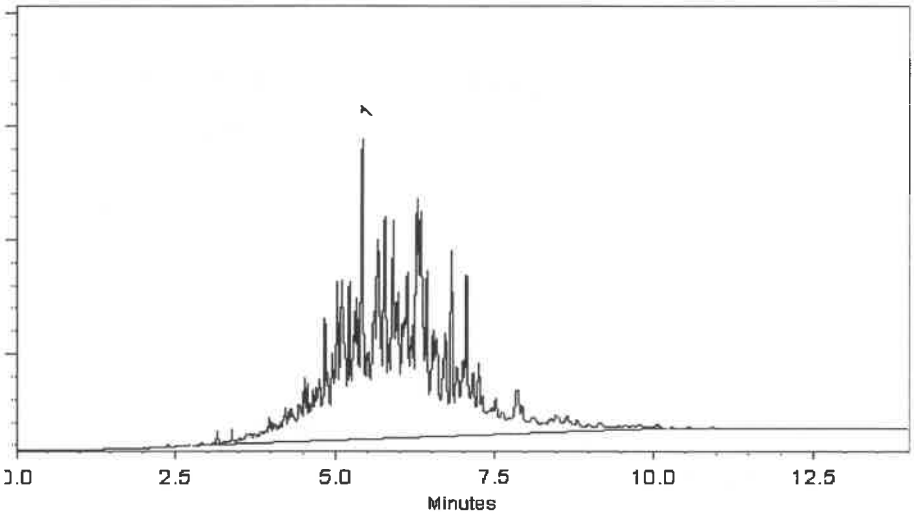
**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD

**Split Vent:**
300 ml/min.

**Inj. Vol**
0.2µl




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.

Dakota Parson - Operations Technician I  **Date Mixed:** 10-Oct-2023  **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC  **Date Passed:** 16-Oct-2023

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

P13402 ↓ P13406 (5)

5/22/2024

# SHIPPING DOCUMENTS

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# Packing List

| Date | Order # |
|---|---|
| 10/21/2024 | 318989 |

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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

| Customer PO # | Terms | PT Acct # | Customer # | Ship Via | F.O.B. |
|---|---|---|---|---|---|
| 240903-01 | Net 30 | ZCM-100 | 1500470 | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number | Part Description | Study Number | Lot Number |
|---|---|---|---|---|---|---|
| 1 | 1 | 0 | PT-MET-SOIL | SOIL/HW Trace Metals | HW1024 | 7098-04 |
| 1 | 1 | 0 | PT-CR6-SOIL | SOIL/HW Hexavalent Chromium ✓ | HW1024 | 7098-05D |
| 1 | 1 | 0 | PT-CN-SOIL | SOIL/HW Cyanide | HW1024 | 7098-06 |
| 1 | 1 | 0 | PT-CORR-SOIL | SOIL/HW Corrosivity/pH ✓ | HW1024 | 7098-11 |
| 1 | 1 | 0 | PT-FP-SOIL | SOIL/HW Flash Point | HW1024 | 7098-10 |
| 1 | 1 | 0 | PT-AN-SOIL | SOIL/HW Anions ✓ | HW1024 | 7098-08 |
| 1 | 1 | 0 | PT-NUT-SOIL | SOIL/HW Nutrients ✓ | HW1024 | 7098-09B |
| 1 | 1 | 0 | PT-SOL-SOIL | SOIL/HW Solids | HW1024 | 7098-31 |
| 1 | 1 | 0 | PT-NO2-SOIL | SOIL/HW Nitrite as N | HW1024 | 7098-71 |
| 1 | 1 | 0 | PT-GAS-SOIL | SOIL/HW Gasoline | HW1024 | 7098-96 |
| 1 | 1 | 0 | PT-DIES-SOIL | SOIL/HW Diesel in Soil | HW1024 | 7098-100 |
| 1 | 1 | 0 | PT-OGR-SOIL | SOIL/HW Oil and Grease ✓ | HW1024 | 7098-94 |
| 1 | 1 | 0 | PT-VOA-SOIL | SOIL/HW Volatiles | HW1024 | 7098-12 |
| 1 | 1 | 0 | PT-BNA-SOIL | SOIL/HW BNAs | HW1024 | 7098-13 |
| 1 | 1 | 0 | PT-PEST-SOIL | SOIL/HW Pesticides | HW1024 | 7098-14 |
| 1 | 1 | 0 | PT-CHLR-SOIL | SOIL/HW Chlordane | HW1024 | 7098-15 |
| 1 | 1 | 0 | PT-TXP-SOIL | SOIL/HW Toxaphene | HW1024 | 7098-16 |
| 1 | 1 | 0 | PT-PCB-SOIL | SOIL/HW PCBs | HW1024 | 7098-17 |
| 1 | 1 | 0 | PT-PCBO-SOIL | SOIL/HW PCBs in Oil | HW1024 | 7098-88 |
| 1 | 1 | 0 | PT-HERB-SOIL | SOIL/HW Herbicides | HW1024 | 7098-18 |
| 1 | 1 | 0 | PT-PAH-SOIL | SOIL/HW PAHs | HW1024 | 7098-22 |
| 1 | 1 | 0 | PT-TRIAZINE-SOIL | SOIL/HW Triazine Pesticides | HW1024 | 7098-106 |

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# Packing List

| Date | Order # |
|---|---|
| 10/21/2024 | 318989 |

6390 Joyce Dr., #100
Golden, CO 80403

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Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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**Ship To**

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

| Customer PO # | Terms | PT Acct # | Customer # | Ship Via | F.O.B. |
|---|---|---|---|---|---|
| 240903-01 | Net 30 | ZCM-100 | 1500470 | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number | Part Description | Study Number | Lot Number |
|---|---|---|---|---|---|---|
| 1 | 1 | 0 | PT-NJEPH-SOIL | NJ EPH in SOIL ✓✓ | HW1024 | 7098-105 |

# Laboratory Certification

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