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# Cover Page

**Order ID :** Q1993

**Project ID :** Con Ed Non-MGP - East River M0SF 454453

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

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1993-01 | MW-3-20250508 |
| Q1993-02 | Q1993-01MS |
| Q1993-03 | Q1993-01MSD |
| Q1993-04 | MW-3-20250508-A |
| Q1993-05 | MW-2-20250508 |
| Q1993-06 | MW-1-20250508 |
| Q1993-07 | MW-4-20250508 |
| Q1993-08 | EB-20250508 |
| Q1993-09 | TB |

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

Signature : _____

Date: 5/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**PARSONS Engineering of New York, Inc.**
**Project Name: Con Ed Non-MGP - East River M0SF 454453**
**Project # N/A**
**Order ID # Q1993**
**Test Name: VOCMS Group1**

**A. Number of Samples and Date of Receipt:**
9 Water samples were received on 05/09/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 was based on method 8260D.

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

**E. Additional Comments:**

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

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

---

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

Signature_____

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# 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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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **Q1993**

| | 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:** **05/21/2025**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1993 | **OrderDate:** | 5/9/2025 10:29:22 AM |
| **Client:** | PARSONS Engineering of New York, Inc. | **Project:** | Con Ed Non-MGP - East River M0SF 454453 |
| **Contact:** | Stephen Liberatore | **Location:** | L51,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1993-01** | **MW-3-20250508** | **Water** | | | **05/08/25** | | | **05/09/25** |
| | | | VOCMS Group1 | 8260-Low | | | 05/09/25 | |
| **Q1993-04** | **MW-3-20250508-A** | **Water** | | | **05/08/25** | | | **05/09/25** |
| | | | VOCMS Group1 | 8260-Low | | | 05/09/25 | |
| **Q1993-05** | **MW-2-20250508** | **Water** | | | **05/08/25** | | | **05/09/25** |
| | | | VOCMS Group1 | 8260-Low | | | 05/09/25 | |
| **Q1993-06** | **MW-1-20250508** | **Water** | | | **05/08/25** | | | **05/09/25** |
| | | | VOCMS Group1 | 8260-Low | | | 05/09/25 | |
| **Q1993-07** | **MW-4-20250508** | **Water** | | | **05/08/25** | | | **05/09/25** |
| | | | VOCMS Group1 | 8260-Low | | | 05/09/25 | |
| **Q1993-08** | **EB-20250508** | **Water** | | | **05/08/25** | | | **05/09/25** |
| | | | VOCMS Group1 | 8260-Low | | | 05/13/25 | |
| **Q1993-09** | **TB** | **Water** | | | **05/08/25** | | | **05/09/25** |
| | | | VOCMS Group1 | 8260-Low | | | 05/13/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1993

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

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **MW-3-20250508** | | | | | | | | |
| Q1993-01 | MW-3-20250508 | Water | Acetone | | 2.80 | J | 1.50 | 5.00 | ug/L |
| Q1993-01 | MW-3-20250508 | Water | Methyl tert-butyl Ether | | 0.54 | J | 0.16 | 1.00 | ug/L |
| Q1993-01 | MW-3-20250508 | Water | Toluene | | 0.28 | J | 0.14 | 1.00 | ug/L |
| | | | **Total Voc :** | | 3.62 | | | | |
| Q1993-01 | MW-3-20250508 | Water | Sulfur dioxide | * | 7.80 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | | 7.80 | | | | |
| | | | **Total Concentration:** | | 11.4 | | | | |
| **Client ID:** | **MW-3-20250508-A** | | | | | | | | |
| Q1993-04 | MW-3-20250508-A | Water | Acetone | | 3.10 | J | 1.50 | 5.00 | ug/L |
| Q1993-04 | MW-3-20250508-A | Water | Methyl tert-butyl Ether | | 0.52 | J | 0.16 | 1.00 | ug/L |
| Q1993-04 | MW-3-20250508-A | Water | Toluene | | 0.35 | J | 0.14 | 1.00 | ug/L |
| | | | **Total Voc :** | | 3.97 | | | | |
| Q1993-04 | MW-3-20250508-A | Water | Sulfur dioxide | * | 5.30 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | | 5.30 | | | | |
| | | | **Total Concentration:** | | 9.27 | | | | |
| **Client ID:** | **MW-2-20250508** | | | | | | | | |
| Q1993-05 | MW-2-20250508 | Water | Acetone | | 3.10 | J | 1.50 | 5.00 | ug/L |
| Q1993-05 | MW-2-20250508 | Water | Toluene | | 0.48 | J | 0.14 | 1.00 | ug/L |
| | | | **Total Voc :** | | 3.58 | | | | |
| Q1993-05 | MW-2-20250508 | Water | Sulfur dioxide | * | 6.40 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | | 6.40 | | | | |
| | | | **Total Concentration:** | | 9.98 | | | | |
| **Client ID:** | **MW-1-20250508** | | | | | | | | |
| Q1993-06 | MW-1-20250508 | Water | Acetone | | 4.00 | J | 1.50 | 5.00 | ug/L |
| Q1993-06 | MW-1-20250508 | Water | Benzene | | 0.72 | J | 0.15 | 1.00 | ug/L |
| | | | **Total Voc :** | | 4.72 | | | | |
| Q1993-06 | MW-1-20250508 | Water | Bicyclo[2.2.1]heptan-2-one, 1,7 | * | 5.90 | J | 0 | 0 | ug/L |
| Q1993-06 | MW-1-20250508 | Water | Sulfur dioxide | * | 5.90 | J | 0 | 0 | ug/L |
| Q1993-06 | MW-1-20250508 | Water | Tert butyl alcohol | * | 25.7 | J | 5.50 | 25.0 | ug/L |
| Q1993-06 | MW-1-20250508 | Water | Diethyl Ether | * | 2.20 | J | 0.31 | 1.00 | ug/L |
| | | | **Total Tics :** | | 39.7 | | | | |
| | | | **Total Concentration:** | | 44.4 | | | | |
| **Client ID:** | **MW-4-20250508** | | | | | | | | |
| Q1993-07 | MW-4-20250508 | Water | Acetone | | 2.20 | J | 1.50 | 5.00 | ug/L |
| | | | **Total Voc :** | | 2.20 | | | | |
| Q1993-07 | MW-4-20250508 | Water | Sulfur dioxide | * | 7.40 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | | 7.40 | | | | |
| | | | **Total Concentration:** | | 9.60 | | | | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1993

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|


# QC SUMMARY

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# Surrogate Summary

**SDG No.:** Q1993

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

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q1993-01 | MW-3-20250508 | 1,2-Dichloroethane-d4 | 50 | 54.7 | 109 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.5 | 103 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.8 | 102 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.5 | 101 | 77 | 121 |
| Q1993-02MS | MW-3-20250508MS | 1,2-Dichloroethane-d4 | 50 | 53.2 | 106 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 52.4 | 105 | 75 | 124 |
| | | Toluene-d8 | 50 | 52.6 | 105 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 52.8 | 106 | 77 | 121 |
| Q1993-03MSD | MW-3-20250508MSD | 1,2-Dichloroethane-d4 | 50 | 51.3 | 103 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.1 | 102 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.7 | 101 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 51.3 | 102 | 77 | 121 |
| Q1993-04 | MW-3-20250508-A | 1,2-Dichloroethane-d4 | 50 | 52.8 | 106 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.1 | 100 | 75 | 124 |
| | | Toluene-d8 | 50 | 49.3 | 99 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.8 | 102 | 77 | 121 |
| Q1993-05 | MW-2-20250508 | 1,2-Dichloroethane-d4 | 50 | 54.3 | 109 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.1 | 100 | 75 | 124 |
| | | Toluene-d8 | 50 | 49.1 | 98 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 48.4 | 97 | 77 | 121 |
| Q1993-06 | MW-1-20250508 | 1,2-Dichloroethane-d4 | 50 | 53.5 | 107 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 52.5 | 105 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.6 | 101 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 51.4 | 103 | 77 | 121 |
| Q1993-07 | MW-4-20250508 | 1,2-Dichloroethane-d4 | 50 | 54.1 | 108 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.8 | 102 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.1 | 100 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.5 | 101 | 77 | 121 |
| Q1993-08 | EB-20250508 | 1,2-Dichloroethane-d4 | 50 | 55.5 | 111 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.7 | 103 | 75 | 124 |
| | | Toluene-d8 | 50 | 51.2 | 102 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 51.5 | 103 | 77 | 121 |
| Q1993-09 | TB | 1,2-Dichloroethane-d4 | 50 | 54.3 | 109 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 52.5 | 105 | 75 | 124 |
| | | Toluene-d8 | 50 | 51.3 | 103 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 51.8 | 104 | 77 | 121 |
| VX0509WBL01 | VX0509WBL01 | 1,2-Dichloroethane-d4 | 50 | 52.5 | 105 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.5 | 101 | 75 | 124 |
| | | Toluene-d8 | 50 | 49.7 | 99 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.0 | 100 | 77 | 121 |
| VX0509WBS01 | VX0509WBS01 | 1,2-Dichloroethane-d4 | 50 | 50.5 | 101 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.3 | 101 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.1 | 100 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 49.2 | 98 | 77 | 121 |
| VX0513WBL01 | VX0513WBL01 | 1,2-Dichloroethane-d4 | 50 | 53.8 | 108 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.5 | 103 | 75 | 124 |
| | | Toluene-d8 | 50 | 50.4 | 101 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.2 | 100 | 77 | 121 |
| VX0513WBS01 | VX0513WBS01 | 1,2-Dichloroethane-d4 | 50 | 51.5 | 103 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | 75 | 124 |

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# Surrogate Summary

**SDG No.:** Q1993

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

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| VX0513WBS01 | VX0513WBS01 | Toluene-d8 | 50 | 50.0 | 100 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 49.3 | 99 | 77 | 121 |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q1993

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

**Analytical Method:** SW8260-Low

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID :** | **Q1993-02MS** | **Client Sample ID :** | **MW-3-20250508MS** | | | | | **Datafile :** | VX046119.D | | |
| Chloromethane | 50 | 0 | 54.3 | ug/L | 109 | | | | 58 | 133 | |
| Vinyl chloride | 50 | 0 | 52.4 | ug/L | 105 | | | | 69 | 125 | |
| Bromomethane | 50 | 0 | 49.1 | ug/L | 98 | | | | 28 | 165 | |
| Chloroethane | 50 | 0 | 59.8 | ug/L | 120 | | | | 70 | 141 | |
| 1,1-Dichloroethene | 50 | 0 | 51.5 | ug/L | 103 | | | | 53 | 162 | |
| Acetone | 250 | 2.80 | 260 | ug/L | 103 | | | | 44 | 150 | |
| Carbon disulfide | 50 | 0 | 56.5 | ug/L | 113 | | | | 44 | 135 | |
| Methyl tert-butyl Ether | 50 | 0.54 | 52.6 | ug/L | 104 | | | | 82 | 133 | |
| Methylene Chloride | 50 | 0 | 50.3 | ug/L | 101 | | | | 79 | 115 | |
| trans-1,2-Dichloroethene | 50 | 0 | 52.9 | ug/L | 106 | | | | 76 | 118 | |
| 1,1-Dichloroethane | 50 | 0 | 53.8 | ug/L | 108 | | | | 78 | 122 | |
| 2-Butanone | 250 | 0 | 260 | ug/L | 104 | | | | 67 | 137 | |
| Carbon Tetrachloride | 50 | 0 | 51.4 | ug/L | 103 | | | | 66 | 133 | |
| cis-1,2-Dichloroethene | 50 | 0 | 53.6 | ug/L | 107 | | | | 82 | 124 | |
| Chloroform | 50 | 0 | 53.3 | ug/L | 107 | | | | 83 | 119 | |
| 1,1,1-Trichloroethane | 50 | 0 | 52.3 | ug/L | 105 | | | | 83 | 117 | |
| Benzene | 50 | 0 | 52.0 | ug/L | 104 | | | | 81 | 128 | |
| 1,2-Dichloroethane | 50 | 0 | 51.8 | ug/L | 104 | | | | 76 | 120 | |
| Trichloroethene | 50 | 0 | 51.8 | ug/L | 104 | | | | 28 | 175 | |
| 1,2-Dichloropropane | 50 | 0 | 52.7 | ug/L | 105 | | | | 85 | 116 | |
| Bromodichloromethane | 50 | 0 | 53.2 | ug/L | 106 | | | | 54 | 157 | |
| 4-Methyl-2-Pentanone | 250 | 0 | 270 | ug/L | 108 | | | | 72 | 137 | |
| Toluene | 50 | 0.28 | 52.4 | ug/L | 104 | | | | 85 | 115 | |
| t-1,3-Dichloropropene | 50 | 0 | 51.7 | ug/L | 103 | | | | 60 | 141 | |
| cis-1,3-Dichloropropene | 50 | 0 | 51.8 | ug/L | 104 | | | | 36 | 161 | |
| 1,1,2-Trichloroethane | 50 | 0 | 52.9 | ug/L | 106 | | | | 27 | 175 | |
| 2-Hexanone | 250 | 0 | 270 | ug/L | 108 | | | | 75 | 131 | |
| Dibromochloromethane | 50 | 0 | 54.4 | ug/L | 109 | | | | 59 | 164 | |
| Tetrachloroethene | 50 | 0 | 48.0 | ug/L | 96 | | | | 48 | 153 | |
| Chlorobenzene | 50 | 0 | 49.8 | ug/L | 100 | | | | 85 | 114 | |
| Ethyl Benzene | 50 | 0 | 52.1 | ug/L | 104 | | | | 81 | 128 | |
| m/p-Xylenes | 100 | 0 | 100 | ug/L | 100 | | | | 69 | 129 | |
| o-Xylene | 50 | 0 | 52.1 | ug/L | 104 | | | | 75 | 127 | |
| Styrene | 50 | 0 | 53.7 | ug/L | 107 | | | | 84 | 128 | |
| Bromoform | 50 | 0 | 53.0 | ug/L | 106 | | | | 73 | 147 | |
| 1,1,2,2-Tetrachloroethane | 50 | 0 | 49.3 | ug/L | 99 | | | | 81 | 131 | |

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# Matrix Spike/Matrix Spike Duplicate Summary

## SW-846

**SDG No.:** Q1993

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

**Analytical Method:** SW8260-Low

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID :** Q1993-03MSD | | **Client Sample ID :** MW-3-20250508MSD | | | | | | **Datafile :** VX046120.D | | | |
| Chloromethane | 50 | 0 | 53.7 | ug/L | 107 | | 1 | | 58 | 133 | 20 |
| Vinyl chloride | 50 | 0 | 52.2 | ug/L | 104 | | 0 | | 69 | 125 | 20 |
| Bromomethane | 50 | 0 | 49.0 | ug/L | 98 | | 0 | | 28 | 165 | 20 |
| Chloroethane | 50 | 0 | 59.6 | ug/L | 119 | | 0 | | 70 | 141 | 20 |
| 1,1-Dichloroethene | 50 | 0 | 52.0 | ug/L | 104 | | 1 | | 53 | 162 | 20 |
| Acetone | 250 | 2.80 | 250 | ug/L | 99 | | 4 | | 44 | 150 | 20 |
| Carbon disulfide | 50 | 0 | 56.7 | ug/L | 113 | | 0 | | 44 | 135 | 20 |
| Methyl tert-butyl Ether | 50 | 0.54 | 53.9 | ug/L | 107 | | 3 | | 82 | 133 | 20 |
| Methylene Chloride | 50 | 0 | 49.5 | ug/L | 99 | | 2 | | 79 | 115 | 20 |
| trans-1,2-Dichloroethene | 50 | 0 | 52.8 | ug/L | 106 | | 0 | | 76 | 118 | 20 |
| 1,1-Dichloroethane | 50 | 0 | 53.7 | ug/L | 107 | | 0 | | 78 | 122 | 20 |
| 2-Butanone | 250 | 0 | 270 | ug/L | 108 | | 4 | | 67 | 137 | 20 |
| Carbon Tetrachloride | 50 | 0 | 52.6 | ug/L | 105 | | 2 | | 66 | 133 | 20 |
| cis-1,2-Dichloroethene | 50 | 0 | 53.3 | ug/L | 107 | | 1 | | 82 | 124 | 20 |
| Chloroform | 50 | 0 | 54.0 | ug/L | 108 | | 1 | | 83 | 119 | 20 |
| 1,1,1-Trichloroethane | 50 | 0 | 54.2 | ug/L | 108 | | 4 | | 83 | 117 | 20 |
| Benzene | 50 | 0 | 52.9 | ug/L | 106 | | 2 | | 81 | 128 | 20 |
| 1,2-Dichloroethane | 50 | 0 | 53.0 | ug/L | 106 | | 2 | | 76 | 120 | 20 |
| Trichloroethene | 50 | 0 | 51.6 | ug/L | 103 | | 0 | | 28 | 175 | 20 |
| 1,2-Dichloropropane | 50 | 0 | 55.0 | ug/L | 110 | | 4 | | 85 | 116 | 20 |
| Bromodichloromethane | 50 | 0 | 53.9 | ug/L | 108 | | 1 | | 54 | 157 | 20 |
| 4-Methyl-2-Pentanone | 250 | 0 | 270 | ug/L | 108 | | 0 | | 72 | 137 | 20 |
| Toluene | 50 | 0.28 | 53.5 | ug/L | 106 | | 2 | | 85 | 115 | 20 |
| t-1,3-Dichloropropene | 50 | 0 | 54.4 | ug/L | 109 | | 5 | | 60 | 141 | 20 |
| cis-1,3-Dichloropropene | 50 | 0 | 54.1 | ug/L | 108 | | 4 | | 36 | 161 | 20 |
| 1,1,2-Trichloroethane | 50 | 0 | 53.6 | ug/L | 107 | | 1 | | 27 | 175 | 20 |
| 2-Hexanone | 250 | 0 | 280 | ug/L | 112 | | 4 | | 75 | 131 | 20 |
| Dibromochloromethane | 50 | 0 | 55.6 | ug/L | 111 | | 2 | | 59 | 164 | 20 |
| Tetrachloroethene | 50 | 0 | 47.6 | ug/L | 95 | | 1 | | 48 | 153 | 20 |
| Chlorobenzene | 50 | 0 | 50.7 | ug/L | 101 | | 2 | | 85 | 114 | 20 |
| Ethyl Benzene | 50 | 0 | 52.1 | ug/L | 104 | | 0 | | 81 | 128 | 20 |
| m/p-Xylenes | 100 | 0 | 100 | ug/L | 100 | | 0 | | 69 | 129 | 20 |
| o-Xylene | 50 | 0 | 52.7 | ug/L | 105 | | 1 | | 75 | 127 | 20 |
| Styrene | 50 | 0 | 53.8 | ug/L | 108 | | 0 | | 84 | 128 | 20 |
| Bromoform | 50 | 0 | 52.8 | ug/L | 106 | | 0 | | 73 | 147 | 20 |
| 1,1,2,2-Tetrachloroethane | 50 | 0 | 51.7 | ug/L | 103 | | 5 | | 81 | 131 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1993

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

**Analytical Method:** SW8260-Low **Datafile :** VX046105.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0509WBS01 | Chloromethane | 20 | 20.8 | ug/L | 104 | | | 65 | 116 | |
| | Vinyl chloride | 20 | 19.8 | ug/L | 99 | | | 65 | 117 | |
| | Bromomethane | 20 | 18.8 | ug/L | 94 | | | 58 | 125 | |
| | Chloroethane | 20 | 19.8 | ug/L | 99 | | | 56 | 128 | |
| | 1,1-Dichloroethene | 20 | 19.7 | ug/L | 99 | | | 74 | 110 | |
| | Acetone | 100 | 100 | ug/L | 100 | | | 60 | 125 | |
| | Carbon disulfide | 20 | 19.9 | ug/L | 100 | | | 64 | 112 | |
| | Methyl tert-butyl Ether | 20 | 20.5 | ug/L | 103 | | | 78 | 114 | |
| | Methylene Chloride | 20 | 19.8 | ug/L | 99 | | | 72 | 114 | |
| | trans-1,2-Dichloroethene | 20 | 20.2 | ug/L | 101 | | | 75 | 108 | |
| | 1,1-Dichloroethane | 20 | 20.8 | ug/L | 104 | | | 78 | 112 | |
| | 2-Butanone | 100 | 100 | ug/L | 100 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 20.1 | ug/L | 101 | | | 77 | 113 | |
| | cis-1,2-Dichloroethene | 20 | 20.5 | ug/L | 103 | | | 77 | 110 | |
| | Chloroform | 20 | 21.1 | ug/L | 106 | | | 79 | 113 | |
| | 1,1,1-Trichloroethane | 20 | 20.7 | ug/L | 104 | | | 80 | 108 | |
| | Benzene | 20 | 20.3 | ug/L | 102 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 20.5 | ug/L | 103 | | | 80 | 115 | |
| | Trichloroethene | 20 | 20.1 | ug/L | 101 | | | 77 | 113 | |
| | 1,2-Dichloropropane | 20 | 20.8 | ug/L | 104 | | | 83 | 111 | |
| | Bromodichloromethane | 20 | 21.3 | ug/L | 106 | | | 83 | 110 | |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/L | 110 | | | 74 | 118 | |
| | Toluene | 20 | 20.3 | ug/L | 102 | | | 82 | 110 | |
| | t-1,3-Dichloropropene | 20 | 19.9 | ug/L | 100 | | | 79 | 110 | |
| | cis-1,3-Dichloropropene | 20 | 20.2 | ug/L | 101 | | | 82 | 110 | |
| | 1,1,2-Trichloroethane | 20 | 21.0 | ug/L | 105 | | | 83 | 112 | |
| | 2-Hexanone | 100 | 110 | ug/L | 110 | | | 73 | 117 | |
| | Dibromochloromethane | 20 | 21.2 | ug/L | 106 | | | 82 | 110 | |
| | Tetrachloroethene | 20 | 19.2 | ug/L | 96 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 19.9 | ug/L | 100 | | | 82 | 109 | |
| | Ethyl Benzene | 20 | 20.5 | ug/L | 103 | | | 83 | 109 | |
| | m/p-Xylenes | 40 | 41.0 | ug/L | 103 | | | 82 | 110 | |
| | o-Xylene | 20 | 20.5 | ug/L | 103 | | | 83 | 109 | |
| | Styrene | 20 | 20.9 | ug/L | 104 | | | 80 | 111 | |
| | Bromoform | 20 | 20.0 | ug/L | 100 | | | 79 | 109 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.9 | ug/L | 104 | | | 76 | 118 | |

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**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q1993

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

**Analytical Method:** SW8260-Low **Datafile :** VX046158.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0513WBS01 | Chloromethane | 20 | 20.0 | ug/L | 100 | | | 65 | 116 | |
| | Vinyl chloride | 20 | 19.0 | ug/L | 95 | | | 65 | 117 | |
| | Bromomethane | 20 | 19.1 | ug/L | 96 | | | 58 | 125 | |
| | Chloroethane | 20 | 21.0 | ug/L | 105 | | | 56 | 128 | |
| | 1,1-Dichloroethene | 20 | 18.9 | ug/L | 95 | | | 74 | 110 | |
| | Acetone | 100 | 99.7 | ug/L | 100 | | | 60 | 125 | |
| | Carbon disulfide | 20 | 17.6 | ug/L | 88 | | | 64 | 112 | |
| | Methyl tert-butyl Ether | 20 | 19.9 | ug/L | 100 | | | 78 | 114 | |
| | Methylene Chloride | 20 | 18.9 | ug/L | 95 | | | 72 | 114 | |
| | trans-1,2-Dichloroethene | 20 | 19.6 | ug/L | 98 | | | 75 | 108 | |
| | 1,1-Dichloroethane | 20 | 20.7 | ug/L | 104 | | | 78 | 112 | |
| | 2-Butanone | 100 | 100 | ug/L | 100 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 19.4 | ug/L | 97 | | | 77 | 113 | |
| | cis-1,2-Dichloroethene | 20 | 20.0 | ug/L | 100 | | | 77 | 110 | |
| | Chloroform | 20 | 21.0 | ug/L | 105 | | | 79 | 113 | |
| | 1,1,1-Trichloroethane | 20 | 20.2 | ug/L | 101 | | | 80 | 108 | |
| | Benzene | 20 | 20.0 | ug/L | 100 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 20.2 | ug/L | 101 | | | 80 | 115 | |
| | Trichloroethene | 20 | 19.0 | ug/L | 95 | | | 77 | 113 | |
| | 1,2-Dichloropropane | 20 | 20.1 | ug/L | 101 | | | 83 | 111 | |
| | Bromodichloromethane | 20 | 20.2 | ug/L | 101 | | | 83 | 110 | |
| | 4-Methyl-2-Pentanone | 100 | 99.5 | ug/L | 100 | | | 74 | 118 | |
| | Toluene | 20 | 19.8 | ug/L | 99 | | | 82 | 110 | |
| | t-1,3-Dichloropropene | 20 | 19.0 | ug/L | 95 | | | 79 | 110 | |
| | cis-1,3-Dichloropropene | 20 | 19.2 | ug/L | 96 | | | 82 | 110 | |
| | 1,1,2-Trichloroethane | 20 | 20.1 | ug/L | 101 | | | 83 | 112 | |
| | 2-Hexanone | 100 | 100 | ug/L | 100 | | | 73 | 117 | |
| | Dibromochloromethane | 20 | 19.9 | ug/L | 100 | | | 82 | 110 | |
| | Tetrachloroethene | 20 | 20.1 | ug/L | 101 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 19.7 | ug/L | 99 | | | 82 | 109 | |
| | Ethyl Benzene | 20 | 19.5 | ug/L | 98 | | | 83 | 109 | |
| | m/p-Xylenes | 40 | 38.9 | ug/L | 97 | | | 82 | 110 | |
| | o-Xylene | 20 | 19.6 | ug/L | 98 | | | 83 | 109 | |
| | Styrene | 20 | 20.1 | ug/L | 101 | | | 80 | 111 | |
| | Bromoform | 20 | 19.2 | ug/L | 96 | | | 79 | 109 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.0 | ug/L | 100 | | | 76 | 118 | |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0509WBL01

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046104.D Lab Sample ID: VX0509WBL01

Date Analyzed: 05/09/2025 Time Analyzed: 10:55

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VX0509WBS01 | VX0509WBS01 | VX046105.D | 05/09/2025 |
| MW-3-20250508-A | Q1993-04 | VX046114.D | 05/09/2025 |
| MW-2-20250508 | Q1993-05 | VX046115.D | 05/09/2025 |
| MW-1-20250508 | Q1993-06 | VX046116.D | 05/09/2025 |
| MW-4-20250508 | Q1993-07 | VX046117.D | 05/09/2025 |
| MW-3-20250508 | Q1993-01 | VX046118.D | 05/09/2025 |
| MW-3-20250508MS | Q1993-02MS | VX046119.D | 05/09/2025 |
| MW-3-20250508MSD | Q1993-03MSD | VX046120.D | 05/09/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0513WBL01

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046155.D Lab Sample ID: VX0513WBL01

Date Analyzed: 05/13/2025 Time Analyzed: 10:52

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| EB-20250508 | Q1993-08 | VX046156.D | 05/13/2025 |
| TB | Q1993-09 | VX046157.D | 05/13/2025 |
| VX0513WBS01 | VX0513WBS01 | VX046158.D | 05/13/2025 |

COMMENTS:

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046038.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 22.1 |
| 75 | 30.0 - 60.0% of mass 95 | 56.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.5 ( 0.7 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 68.8 |
| 175 | 5.0 - 9.0% of mass 174 | 5 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 66.7 ( 97 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.6 ( 6.9 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC020 | VSTDICC020 | VX046041.D | 05/05/2025 | 11:35 |
| VSTDICCC050 | VSTDICCC050 | VX046042.D | 05/05/2025 | 11:58 |
| VSTDICC100 | VSTDICC100 | VX046043.D | 05/05/2025 | 12:21 |
| VSTDICC150 | VSTDICC150 | VX046044.D | 05/05/2025 | 12:45 |
| VSTDICC005 | VSTDICC005 | VX046046.D | 05/05/2025 | 16:04 |
| VSTDICC001 | VSTDICC001 | VX046047.D | 05/05/2025 | 16:27 |

Raw Data: **VX046101.D**

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046101.D BFB Injection Date: 05/09/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:36

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 22 |
| 75 | 30.0 - 60.0% of mass 95 | 56.3 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.8 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 68 |
| 175 | 5.0 - 9.0% of mass 174 | 5.2 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 67.9 ( 99.8 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4 ( 5.8 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VX046102.D | 05/09/2025 | 10:05 |
| VX0509WBL01 | VX0509WBL01 | VX046104.D | 05/09/2025 | 10:55 |
| VX0509WBS01 | VX0509WBS01 | VX046105.D | 05/09/2025 | 11:18 |
| MW-3-20250508-A | Q1993-04 | VX046114.D | 05/09/2025 | 14:51 |
| MW-2-20250508 | Q1993-05 | VX046115.D | 05/09/2025 | 15:14 |
| MW-1-20250508 | Q1993-06 | VX046116.D | 05/09/2025 | 15:37 |
| MW-4-20250508 | Q1993-07 | VX046117.D | 05/09/2025 | 16:01 |
| MW-3-20250508 | Q1993-01 | VX046118.D | 05/09/2025 | 16:24 |
| MW-3-20250508MS | Q1993-02MS | VX046119.D | 05/09/2025 | 16:47 |
| MW-3-20250508MSD | Q1993-03MSD | VX046120.D | 05/09/2025 | 17:10 |

Raw Data: **VX046152.D**

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046152.D BFB Injection Date: 05/13/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:29

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 22.8 |
| 75 | 30.0 - 60.0% of mass 95 | 58.5 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1.3 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 68.6 |
| 175 | 5.0 - 9.0% of mass 174 | 4.8 ( 7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 66.3 ( 96.7 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.6 ( 6.9 ) 2 |

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VX046153.D | 05/13/2025 | 10:00 |
| VX0513WBL01 | VX0513WBL01 | VX046155.D | 05/13/2025 | 10:52 |
| EB-20250508 | Q1993-08 | VX046156.D | 05/13/2025 | 11:16 |
| TB | Q1993-09 | VX046157.D | 05/13/2025 | 11:39 |
| VX0513WBS01 | VX0513WBS01 | VX046158.D | 05/13/2025 | 12:02 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046102.D Date Analyzed: 05/09/2025

Instrument ID: MSVOA_X Time Analyzed: 10:05

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 90819 | 5.54 | 154646 | 6.75 | 135275 | 10.05 |
| UPPER LIMIT | 181638 | 6.044 | 309292 | 7.251 | 270550 | 10.549 |
| LOWER LIMIT | 45409.5 | 5.044 | 77323 | 6.251 | 67637.5 | 9.549 |
| EPA SAMPLE NO. | | | | | | |
| MW-3-20250508 | 62798 | 5.55 | 125403 | 6.76 | 118620 | 10.05 |
| MW-3-20250508MS | 89463 | 5.55 | 159939 | 6.76 | 140865 | 10.05 |
| MW-3-20250508MSD | 86597 | 5.55 | 154131 | 6.76 | 138745 | 10.06 |
| MW-3-20250508-A | 64942 | 5.55 | 128100 | 6.76 | 119704 | 10.05 |
| MW-2-20250508 | 63587 | 5.55 | 130133 | 6.76 | 120308 | 10.05 |
| MW-1-20250508 | 62076 | 5.54 | 122260 | 6.76 | 116217 | 10.05 |
| MW-4-20250508 | 63315 | 5.55 | 129242 | 6.76 | 119976 | 10.06 |
| VX0509WBL01 | 68013 | 5.55 | 134737 | 6.76 | 125593 | 10.05 |
| VX0509WBS01 | 90343 | 5.55 | 160624 | 6.76 | 140930 | 10.05 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046102.D Date Analyzed: 05/09/2025

Instrument ID: MSVOA_X Time Analyzed: 10:05

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 64593 | 12.018 | | | | |
| UPPER LIMIT | 129186 | 12.518 | | | | |
| LOWER LIMIT | 32296.5 | 11.518 | | | | |
| EPA SAMPLE NO. | | | | | | |
| MW-3-20250508 | 49722 | 12.02 | | | | |
| MW-3-20250508MS | 66944 | 12.02 | | | | |
| MW-3-20250508MSD | 65108 | 12.02 | | | | |
| MW-3-20250508-A | 51999 | 12.02 | | | | |
| MW-2-20250508 | 51775 | 12.02 | | | | |
| MW-1-20250508 | 50295 | 12.02 | | | | |
| MW-4-20250508 | 51028 | 12.02 | | | | |
| VX0509WBL01 | 52925 | 12.02 | | | | |
| VX0509WBS01 | 64755 | 12.02 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046153.D Date Analyzed: 05/13/2025

Instrument ID: MSVOA_X Time Analyzed: 10:00

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 98502 | 5.54 | 167387 | 6.75 | 146749 | 10.05 |
| UPPER LIMIT | 197004 | 6.043 | 334774 | 7.25 | 293498 | 10.549 |
| LOWER LIMIT | 49251 | 5.043 | 83693.5 | 6.25 | 73374.5 | 9.549 |
| EPA SAMPLE NO. | | | | | | |
| EB-20250508 | 65629 | 5.54 | 132457 | 6.76 | 126910 | 10.05 |
| TB | 66175 | 5.54 | 131830 | 6.76 | 126040 | 10.06 |
| VX0513WBL01 | 67277 | 5.55 | 133345 | 6.76 | 124650 | 10.05 |
| VX0513WBS01 | 89387 | 5.54 | 160585 | 6.76 | 139963 | 10.06 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Fax : 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG NO.: Q1993

Lab File ID: VX046153.D Date Analyzed: 05/13/2025

Instrument ID: MSVOA_X Time Analyzed: 10:00

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 70437 | 12.018 | | | | |
| UPPER LIMIT | 140874 | 12.518 | | | | |
| LOWER LIMIT | 35218.5 | 11.518 | | | | |
| EPA SAMPLE NO. | | | | | | |
| EB-20250508 | 54742 | 12.02 | | | | |
| TB | 55709 | 12.02 | | | | |
| VX0513WBL01 | 52712 | 12.02 | | | | |
| VX0513WBS01 | 64268 | 12.02 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.


# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-3-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046118.D | 1 | | 05/09/25 16:24 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 2.80 | J | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.54 | J | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.28 | J | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046118.D**

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-3-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046118.D | 1 | | 05/09/25 16:24 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.7 | | 74 - 125 | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.5 | | 75 - 124 | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.8 | | 86 - 113 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.5 | | 77 - 121 | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 62800 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 125000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 119000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 49700 | 12.018 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 007446-09-5 | Sulfur dioxide | 7.80 | J | | 1.24 | ug/L |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX046118.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046118.D
Acq On : 09 May 2025 16:24
Operator : JC/MD
Sample : Q1993-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Quant Time: May 09 23:16:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

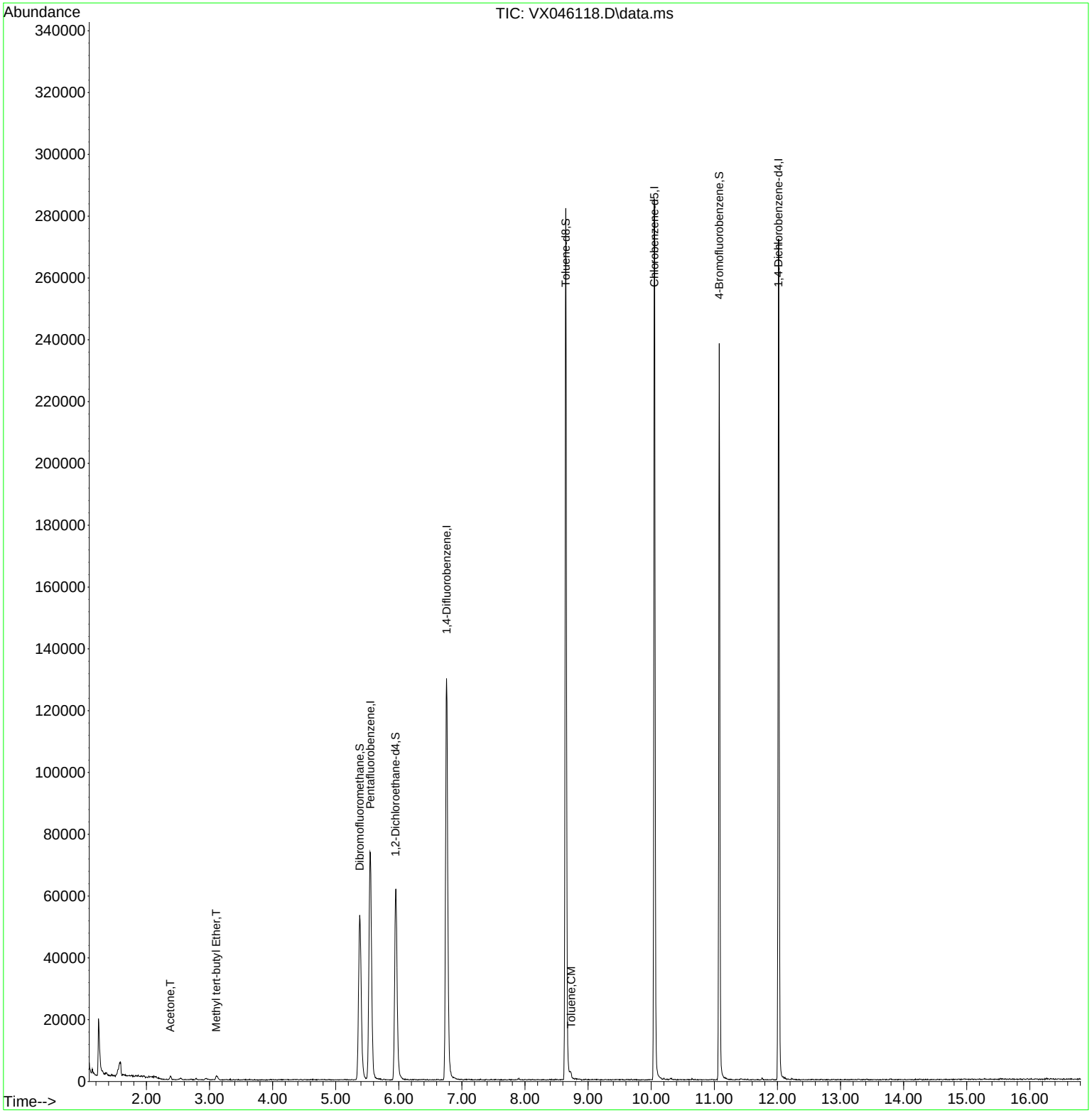
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 62798 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 125403 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 118620 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 49722 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 64000 | 54.666 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 109.340% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 46462 | 51.451 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.900% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 158899 | 50.839 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.680% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 60591 | 50.539 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 101.080% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.380 | 43 | 1323 | 2.818 | ug/l # | 85 |
| 19) Methyl tert-butyl Ether | 3.105 | 73 | 1396 | 0.535 | ug/l | 91 |
| 52) Toluene | 8.732 | 92 | 610 | 0.280 | ug/l | 76 |

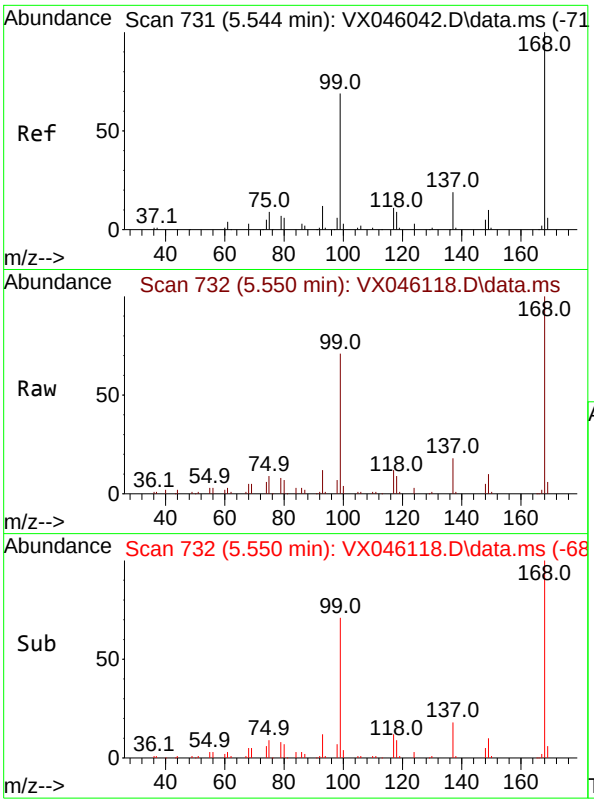
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046118.D
Acq On : 09 May 2025 16:24
Operator : JC/MD
Sample : Q1993-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Quant Time: May 09 23:16:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



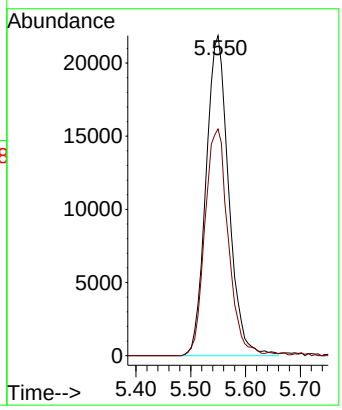


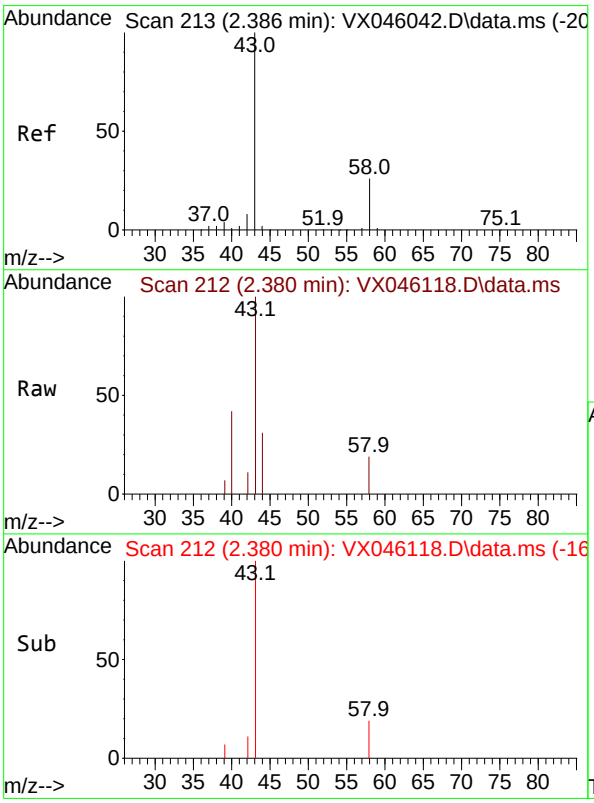

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Tgt Ion:168 Resp: 62798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.8 | 54.9 | 82.3 |

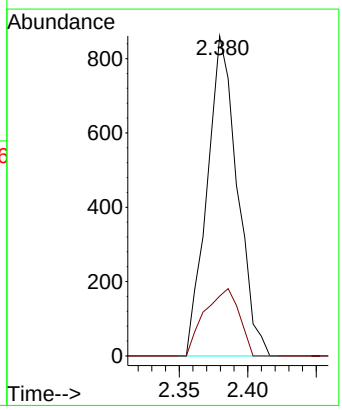


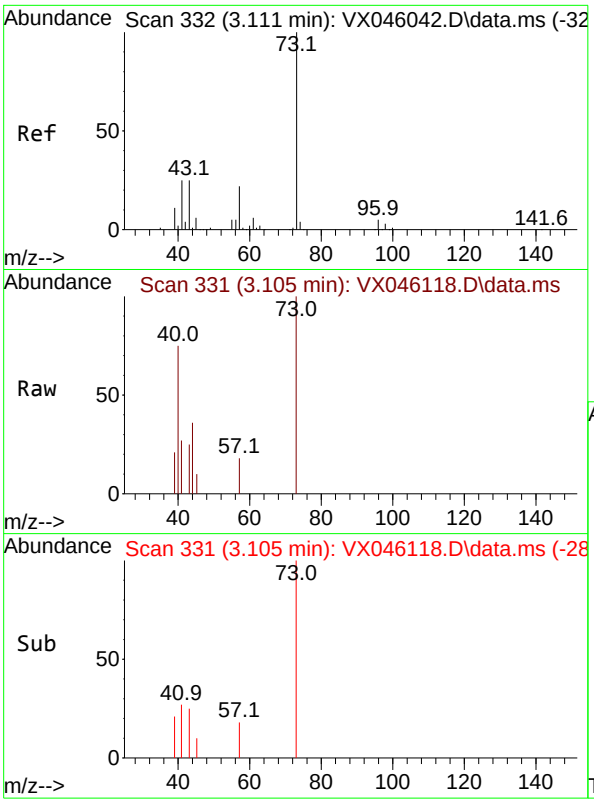




#16
Acetone
Concen: 2.818 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

Tgt Ion: 43 Resp: 1323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.7 | 21.2 | 31.8# |



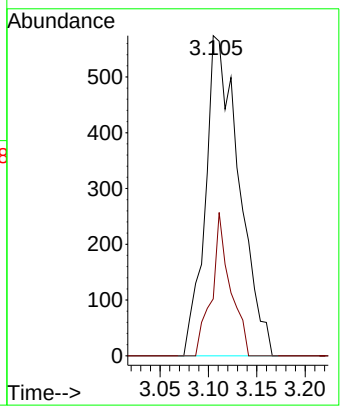


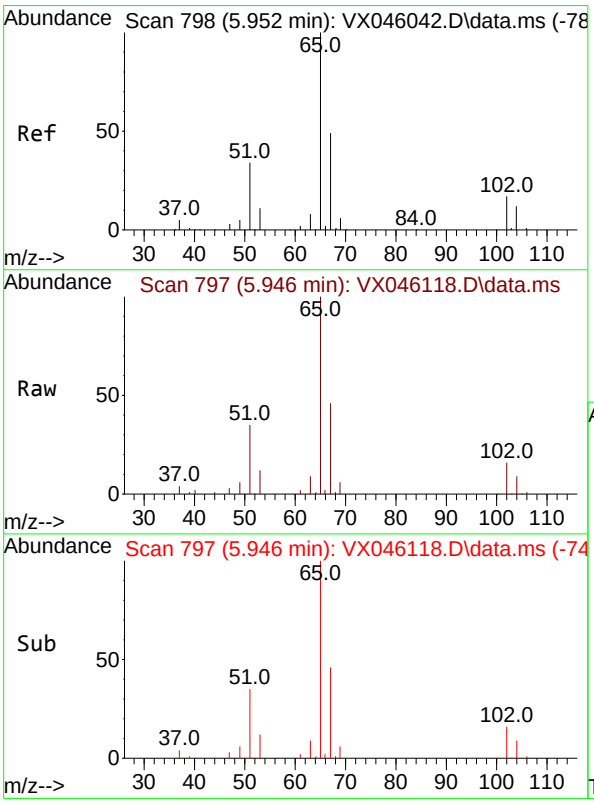

#19
Methyl tert-butyl Ether
Concen: 0.535 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Tgt Ion: 73 Resp: 1396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 17.8 | 17.7 | 26.5 |

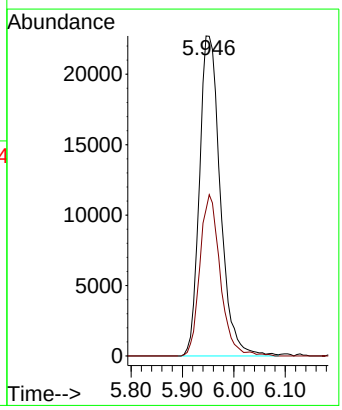


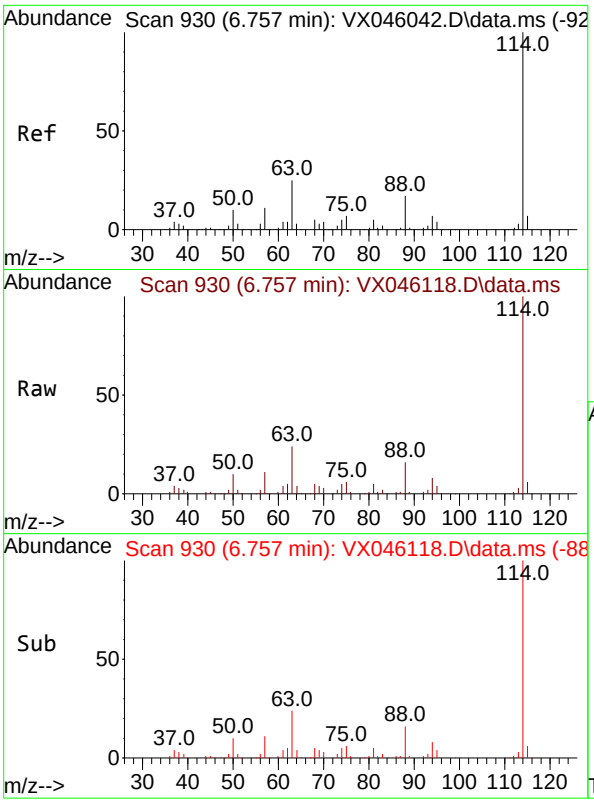




#33
1,2-Dichloroethane-d4
Concen: 54.666 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

Tgt Ion: 65 Resp: 64000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.2 | 0.0 | 99.0 |



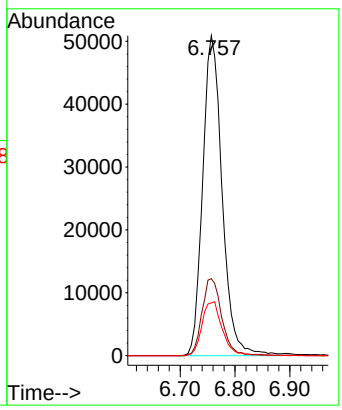


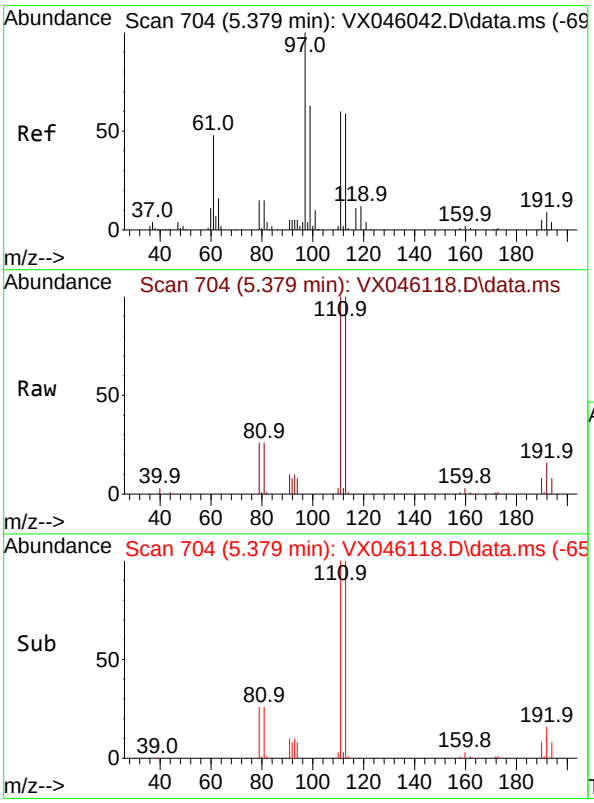

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Tgt Ion:114 Resp: 125403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.0 | 0.0 | 49.2 |
| 88 | 16.5 | 0.0 | 33.6 |

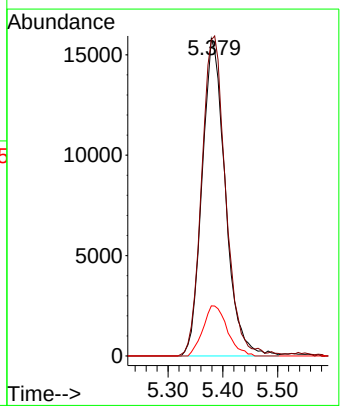


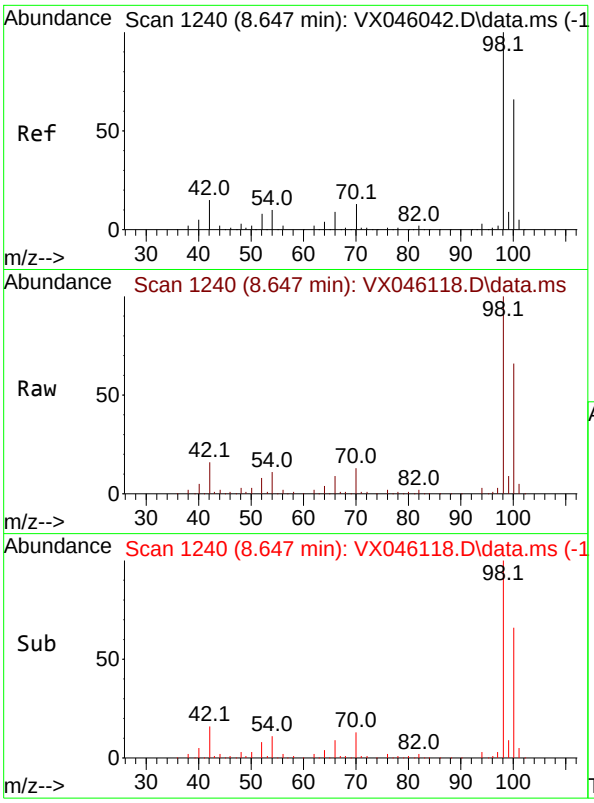




#35
Dibromofluoromethane
Concen: 51.451 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

Tgt Ion:113 Resp: 46462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.8 | 83.1 | 124.7 |
| 192 | 16.5 | 13.3 | 19.9 |



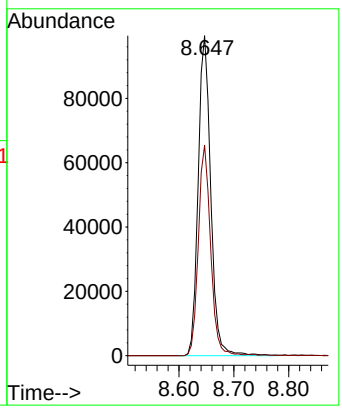


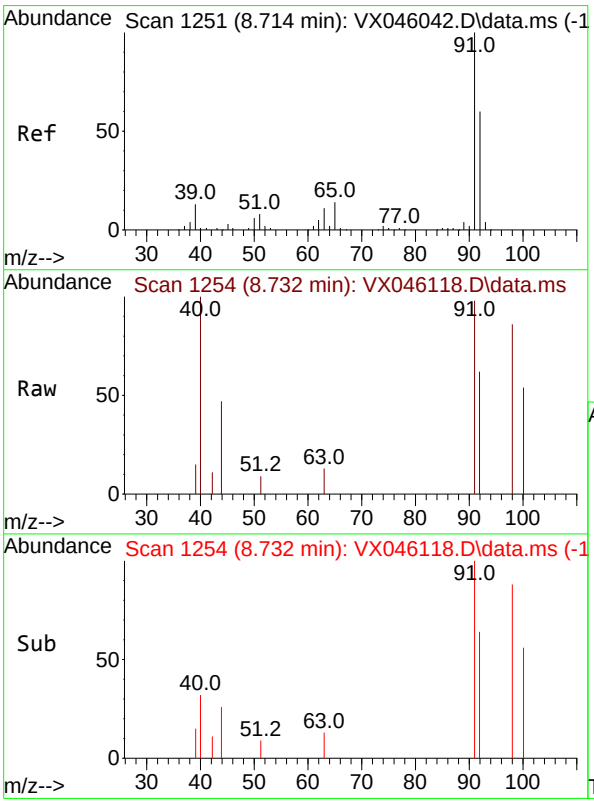

#50
Toluene-d8
Concen: 50.839 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Tgt Ion: 98 Resp: 158899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 53.5 | 80.3 |

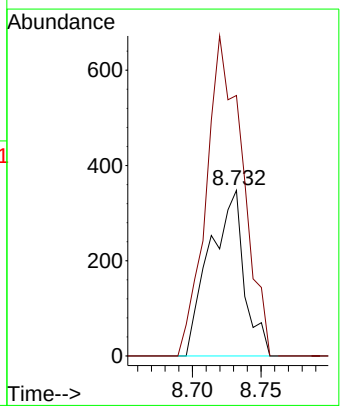


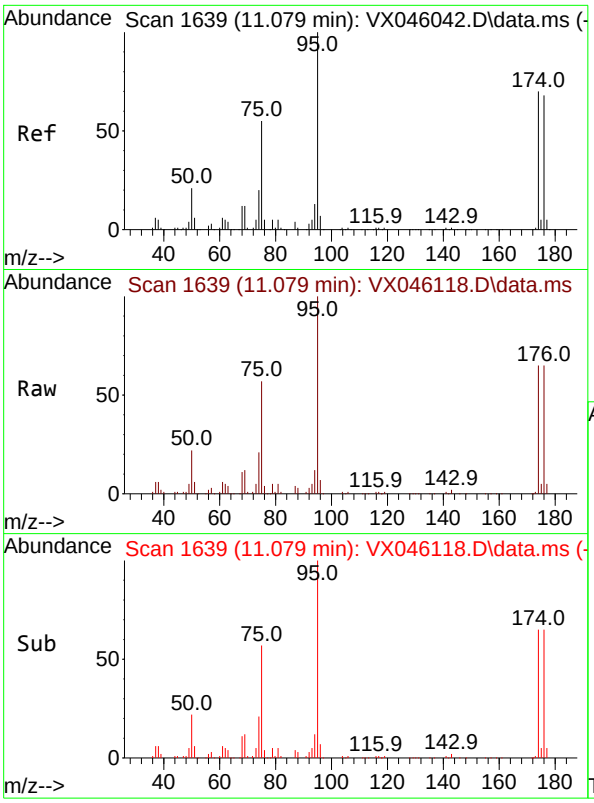




#52
Toluene
Concen: 0.280 ug/l
RT: 8.732 min Scan# 1254
Delta R.T. 0.018 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

Tgt Ion: 92 Resp: 610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 203.6 | 136.6 | 205.0 |



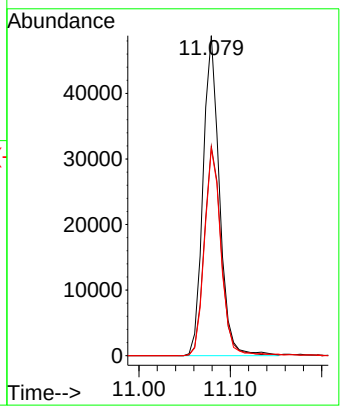


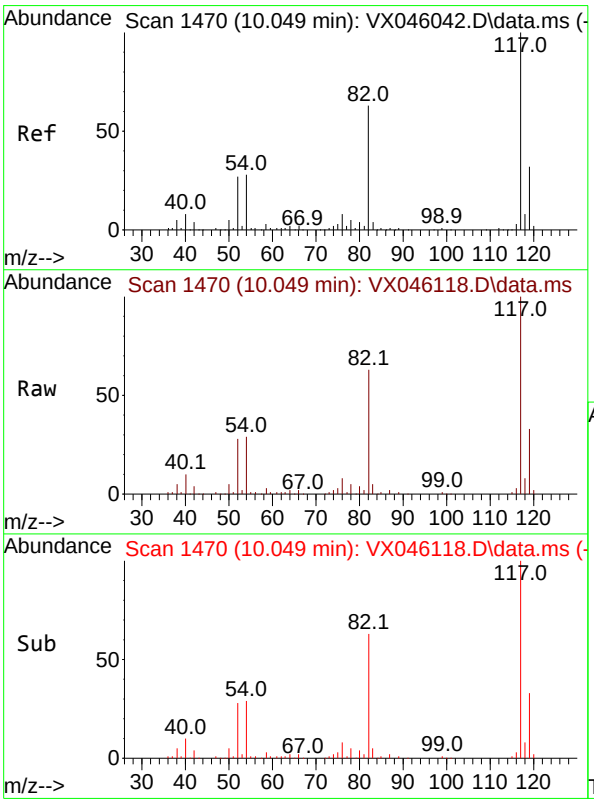

#62
4-Bromofluorobenzene
Concen: 50.539 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Tgt Ion: 95 Resp: 60591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.0 | 0.0 | 135.8 |
| 176 | 65.8 | 0.0 | 131.4 |

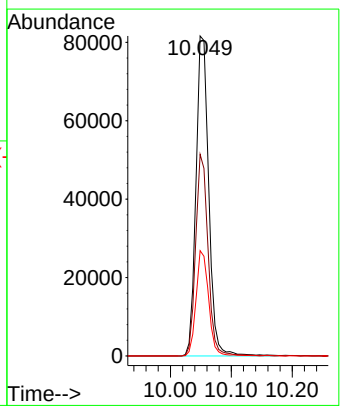


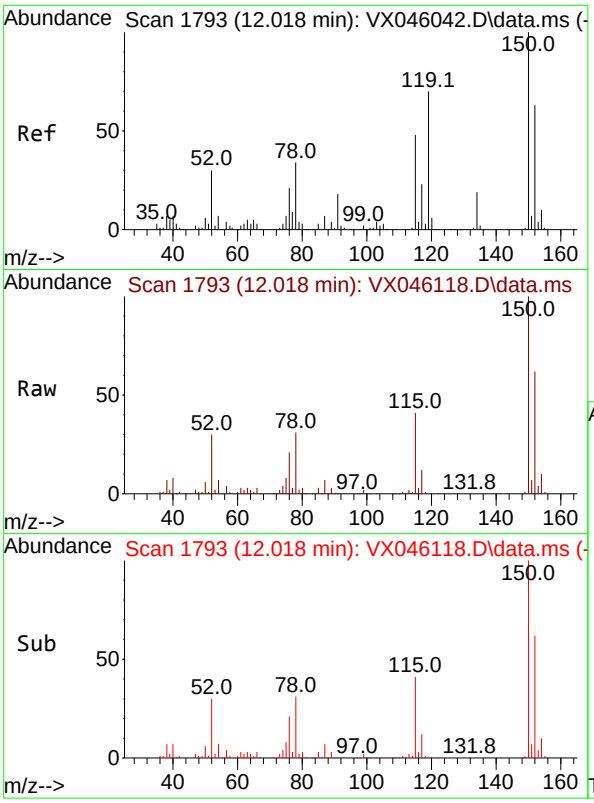




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

Tgt Ion:117 Resp: 118620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.0 | 50.6 | 76.0 |
| 119 | 32.9 | 25.8 | 38.6 |



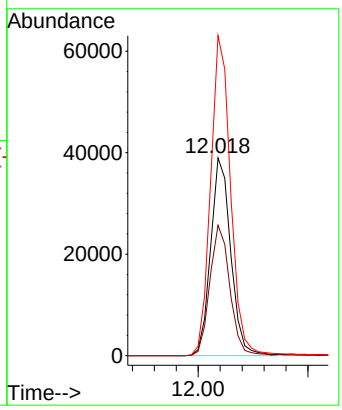



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046118.D
Acq: 09 May 2025 16:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Tgt Ion:152 Resp: 49722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.1 | 46.9 | 140.7 |
| 150 | 162.0 | 0.0 | 351.0 |



Sample Results: **VX046118.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046118.D
Acq On : 09 May 2025 16:24
Operator : JC/MD
Sample : Q1993-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046118.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.239 | 22 | 25 | 39 | rBV | 18374 | 32559 | 7.35% | 1.363% |
| 2 | 1.587 | 76 | 82 | 86 | rVB4 | 4431 | 9901 | 2.23% | 0.414% |
| 3 | 5.379 | 694 | 704 | 720 | rBV | 53256 | 157754 | 35.59% | 6.604% |
| 4 | 5.544 | 722 | 731 | 745 | rVV2 | 73309 | 209764 | 47.33% | 8.781% |
| 5 | 5.952 | 789 | 798 | 816 | rBV | 61811 | 168278 | 37.97% | 7.044% |
| 6 | 6.757 | 921 | 930 | 947 | rBV2 | 129881 | 320561 | 72.33% | 13.419% |
| 7 | 8.647 | 1234 | 1240 | 1250 | rBV | 281934 | 443199 | 100.00% | 18.553% |
| 8 | 10.049 | 1465 | 1470 | 1490 | rBV | 285138 | 405391 | 91.47% | 16.970% |
| 9 | 11.079 | 1634 | 1639 | 1653 | rBV | 238269 | 298465 | 67.34% | 12.494% |
| 10 | 12.018 | 1788 | 1793 | 1803 | rBV | 272142 | 342981 | 77.39% | 14.358% |

Sum of corrected areas: 2388853

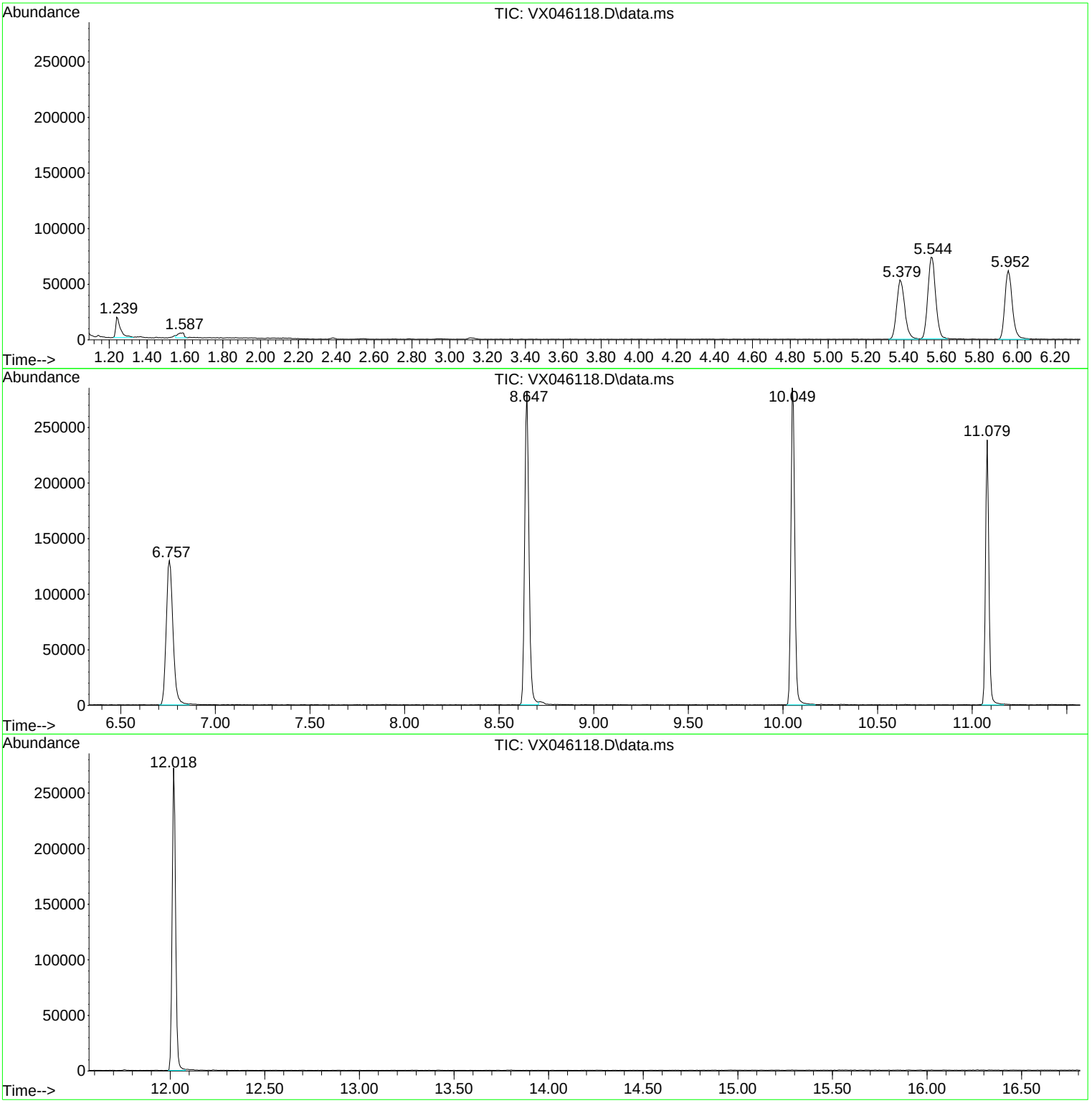
Sample Results: **VX046118.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046118.D
Acq On : 09 May 2025 16:24
Operator : JC/MD
Sample : Q1993-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046118.D
Acq On : 09 May 2025 16:24
Operator : JC/MD
Sample : Q1993-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

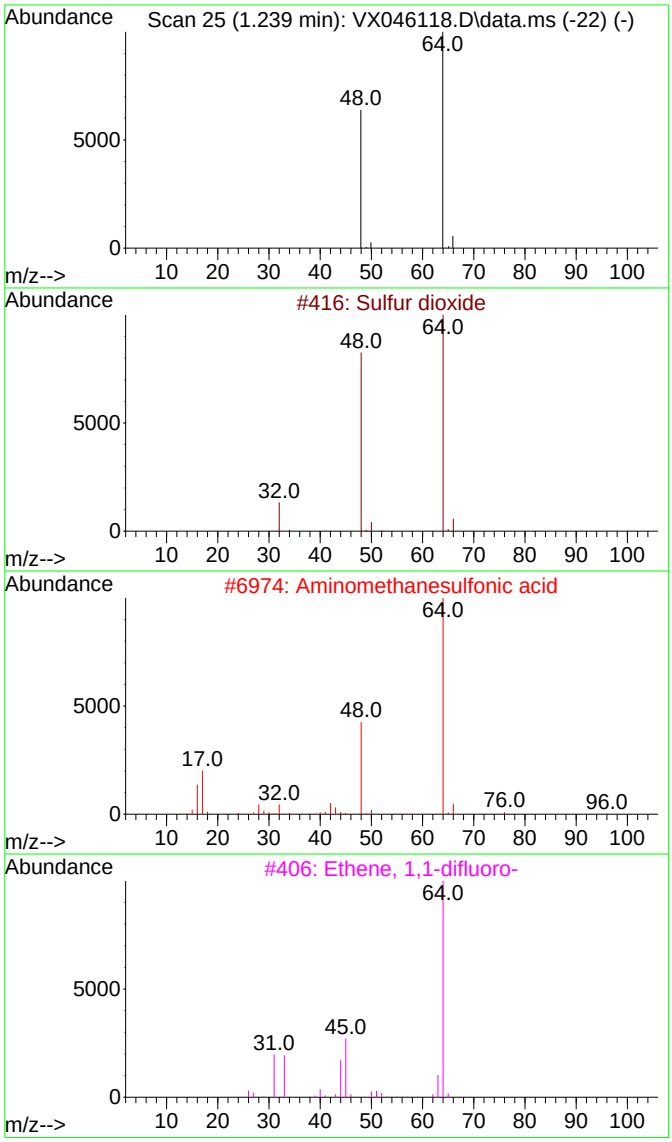
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

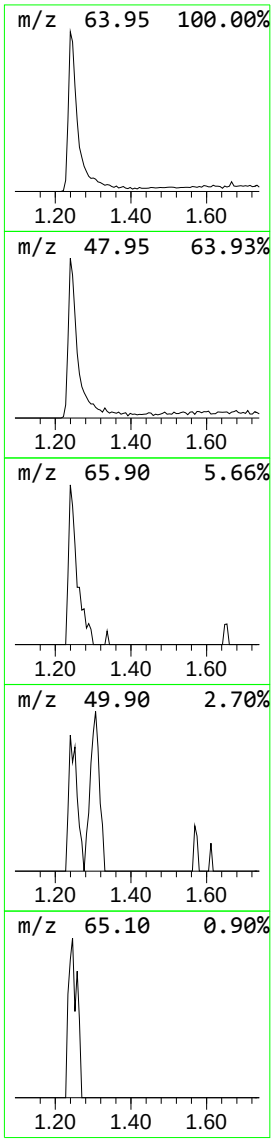
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.239 | 7.76 ug/l | 32559 | Pentafluorobenzene | 5.550 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 83 |
| 2 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 9 |
| 3 | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 4 |
| 4 | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 3 |
| 5 | Ethene, 1,2-difluoro- | 64 | C2H2F2 | 001691-13-0 | 3 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046118.D
Acq On : 09 May 2025 16:24
Operator : JC/MD
Sample : Q1993-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Sulfur dioxide | 1.239 | 7.8 | ug/l | 32559 | 1 | 5.550 | 209764 | 50.0 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-3-20250508-A | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-04 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046114.D | 1 | | 05/09/25 14:51 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 3.10 | J | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.52 | J | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.35 | J | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046114.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-3-20250508-A | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-04 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046114.D | 1 | | 05/09/25 14:51 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.8 | | 74 - 125 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.1 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.3 | | 86 - 113 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.8 | | 77 - 121 | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 64900 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 128000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 120000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 52000 | 12.018 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 007446-09-5 | Sulfur dioxide | 5.30 | J | | 1.25 | ug/L |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX046114.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046114.D
Acq On : 09 May 2025 14:51
Operator : JC/MD
Sample : Q1993-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Quant Time: May 09 23:15:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

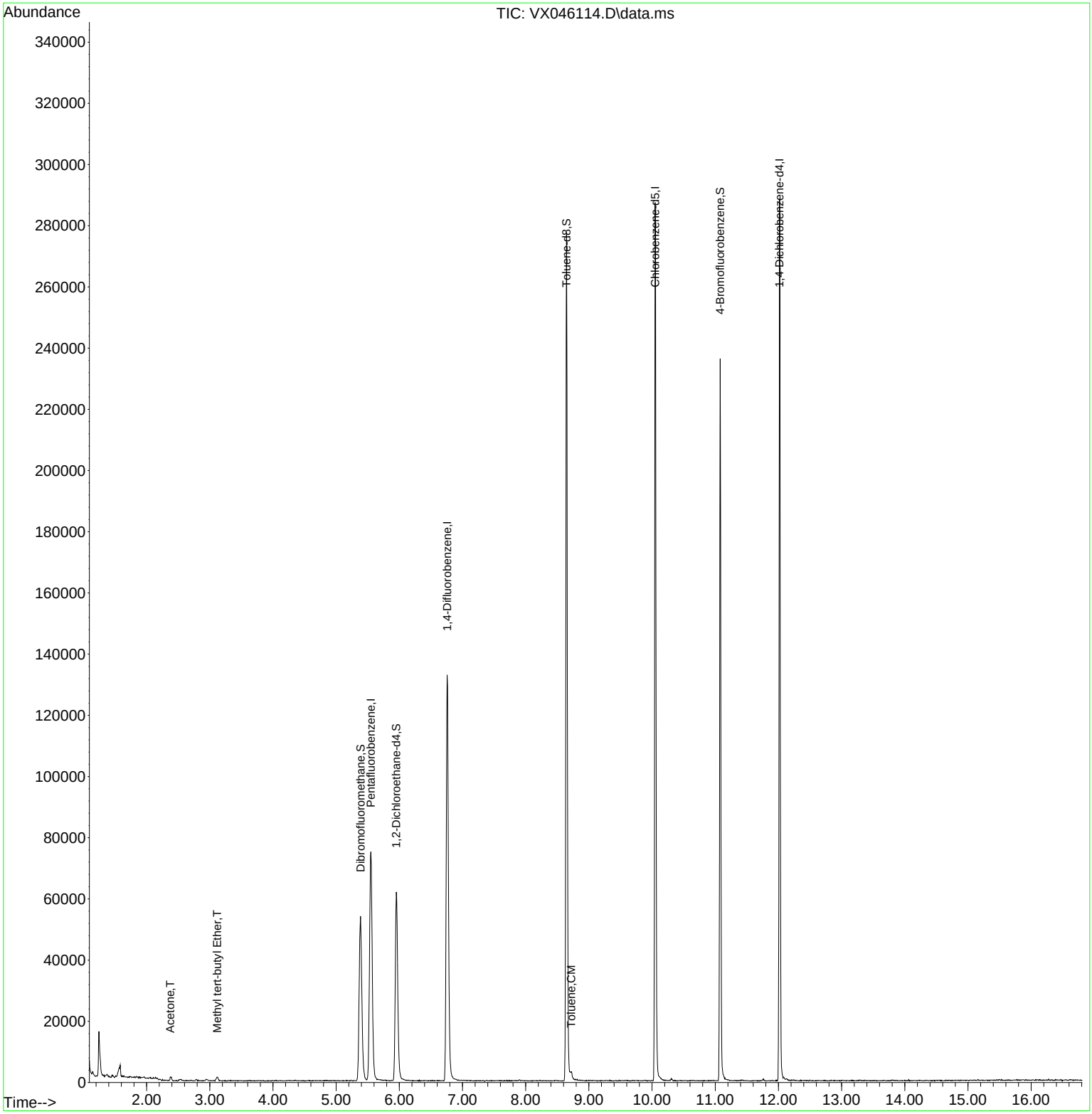
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 64942 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 128100 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 119704 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 51999 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 63947 | 52.817 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 105.640% | | | |
| 35) Dibromofluoromethane | 5.385 | 113 | 46182 | 50.064 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.120% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 157417 | 49.305 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 98.600% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 62168 | 50.762 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 101.520% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.373 | 43 | 1512 | 3.115 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 1405 | 0.520 | ug/l | 96 |
| 52) Toluene | 8.720 | 92 | 789 | 0.354 | ug/l | 93 |

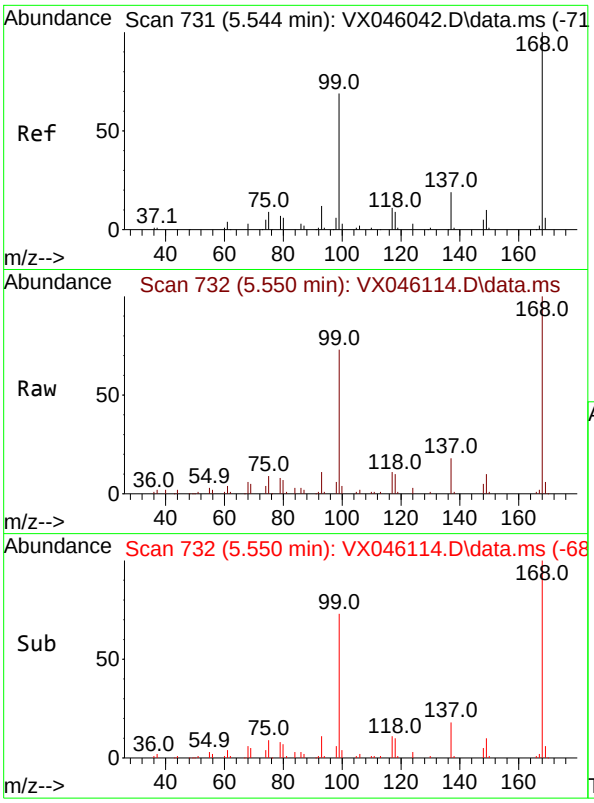
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046114.D
Acq On : 09 May 2025 14:51
Operator : JC/MD
Sample : Q1993-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Quant Time: May 09 23:15:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



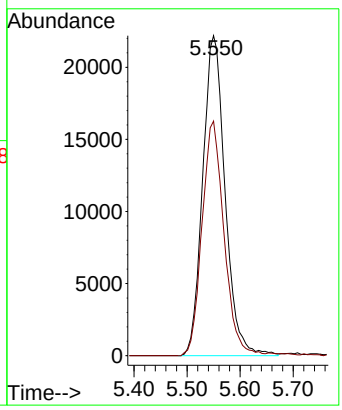


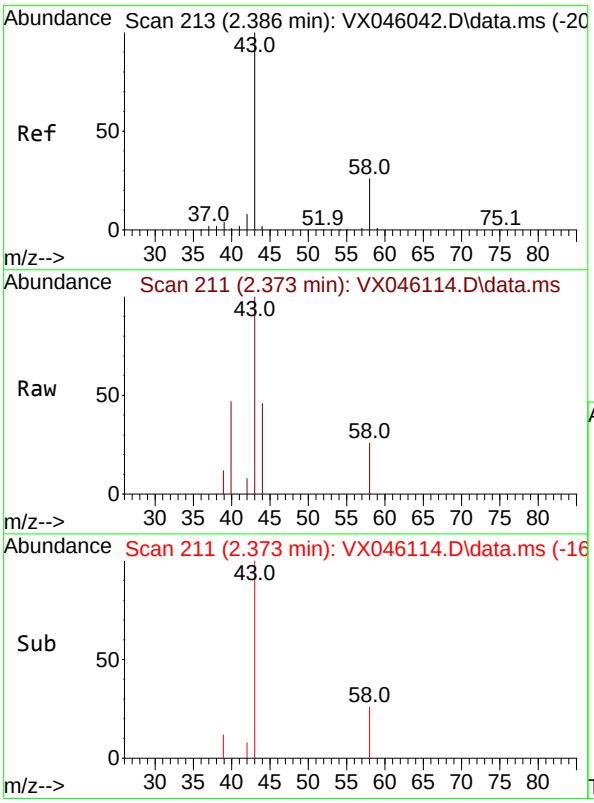

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Tgt Ion:168 Resp: 64942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 73.3 | 54.9 | 82.3 |

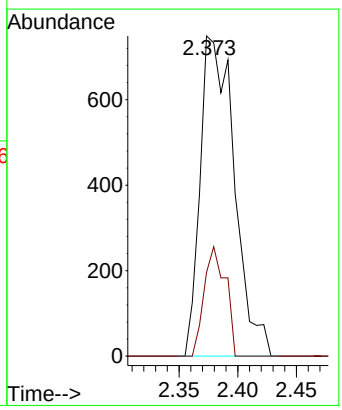


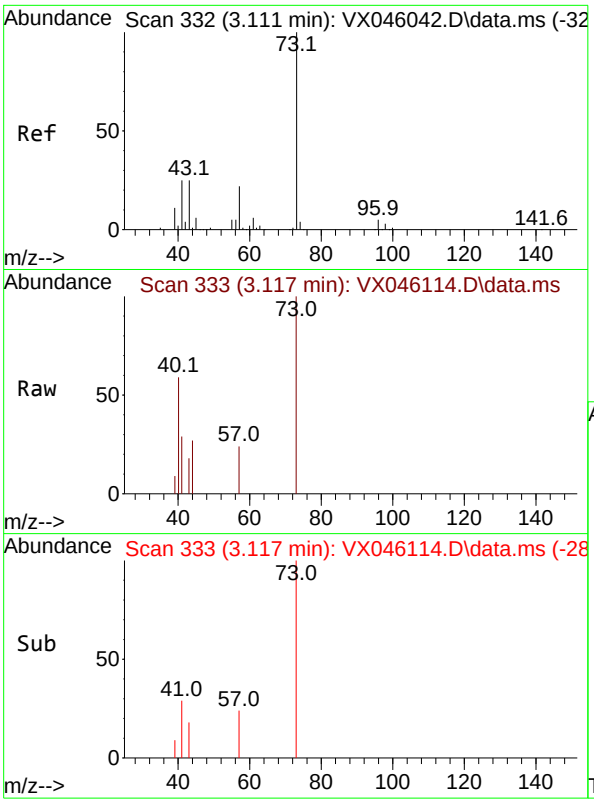




#16
Acetone
Concen: 3.115 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.012 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

Tgt Ion: 43 Resp: 1512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.2 | 21.2 | 31.8 |



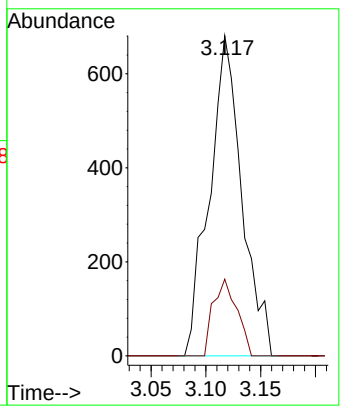


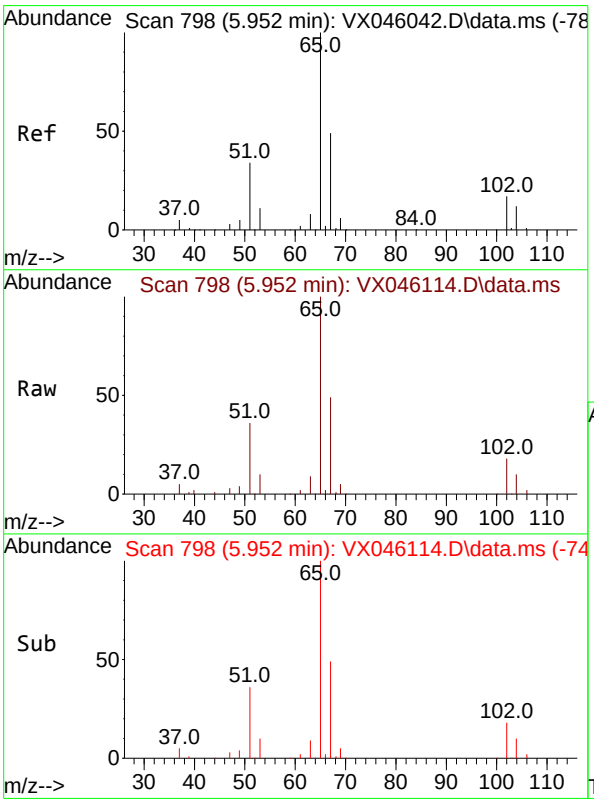

#19
Methyl tert-butyl Ether
Concen: 0.520 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Tgt Ion: 73 Resp: 1405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.9 | 17.7 | 26.5 |

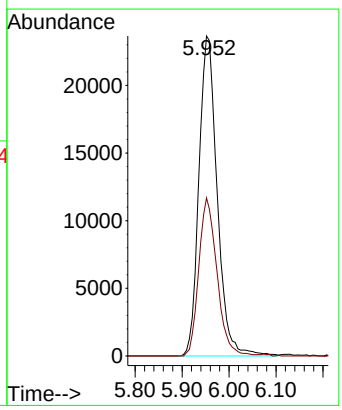


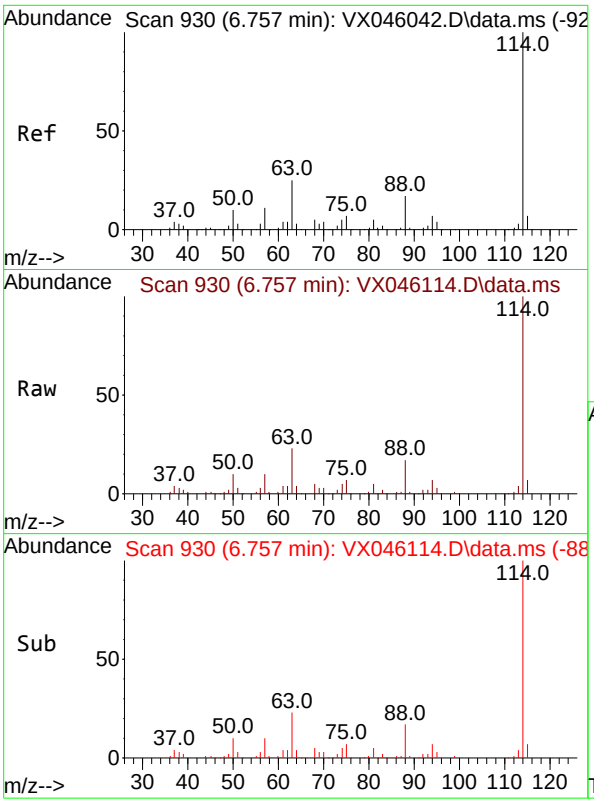




#33
1,2-Dichloroethane-d4
Concen: 52.817 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

Tgt Ion: 65 Resp: 63947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.2 | 0.0 | 99.0 |



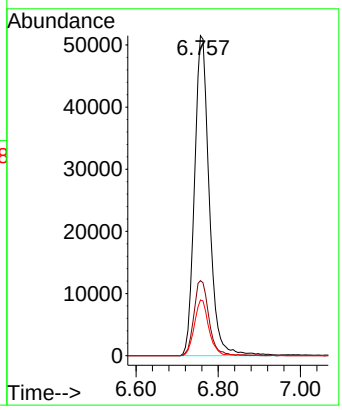


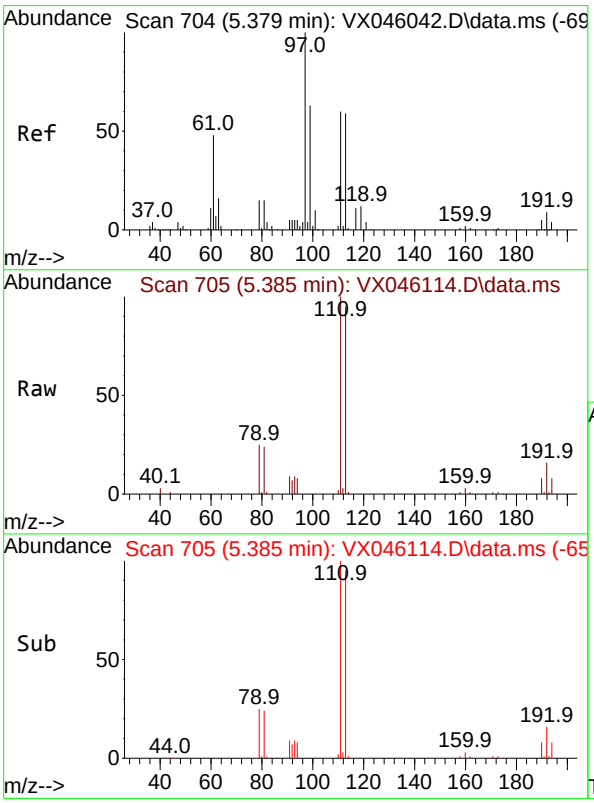

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Tgt Ion:114 Resp: 128100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.5 | 0.0 | 49.2 |
| 88 | 17.4 | 0.0 | 33.6 |

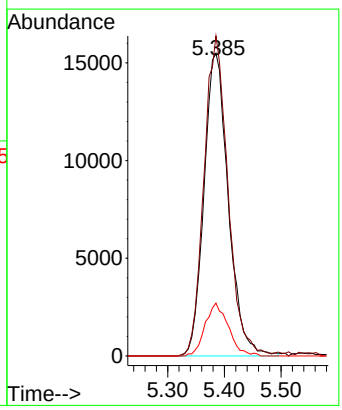


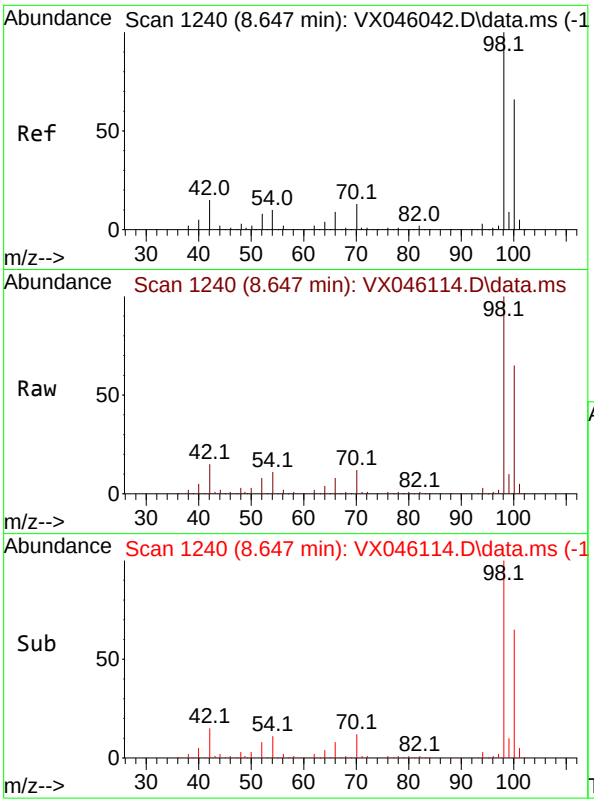




#35
Dibromofluoromethane
Concen: 50.064 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

Tgt Ion:113 Resp: 46182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.2 | 83.1 | 124.7 |
| 192 | 16.8 | 13.3 | 19.9 |



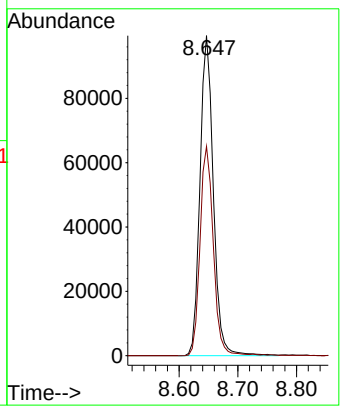


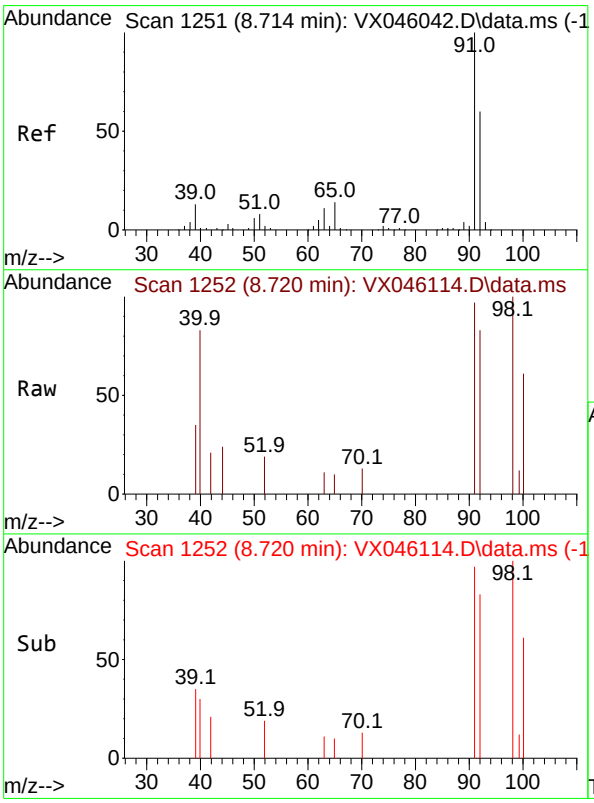

#50
Toluene-d8
Concen: 49.305 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Tgt Ion: 98 Resp: 157417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 53.5 | 80.3 |

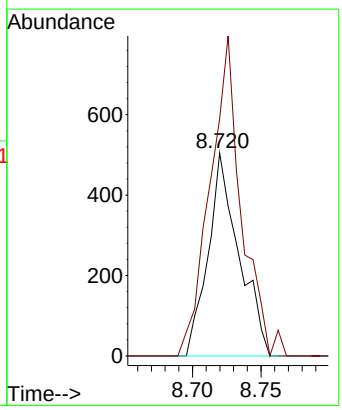


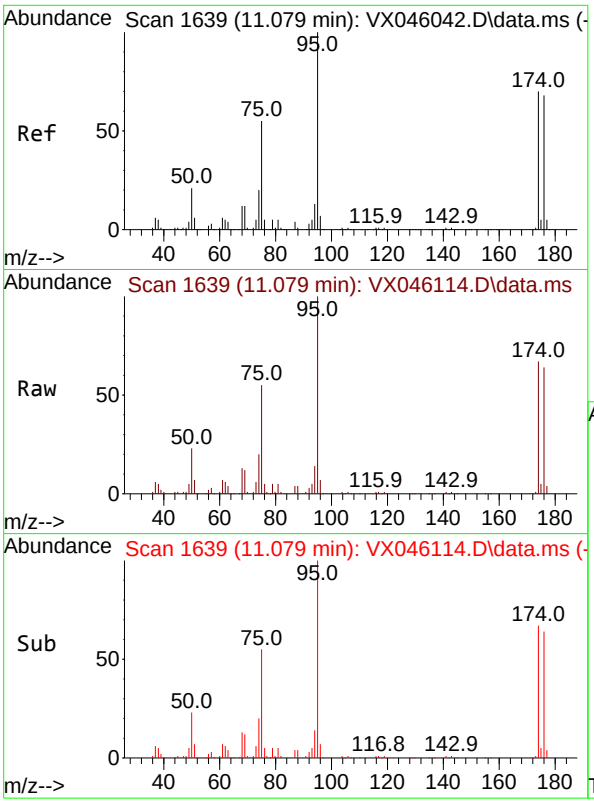




#52
Toluene
Concen: 0.354 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

Tgt Ion: 92 Resp: 789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 161.0 | 136.6 | 205.0 |



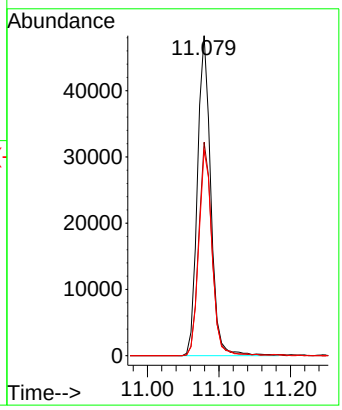


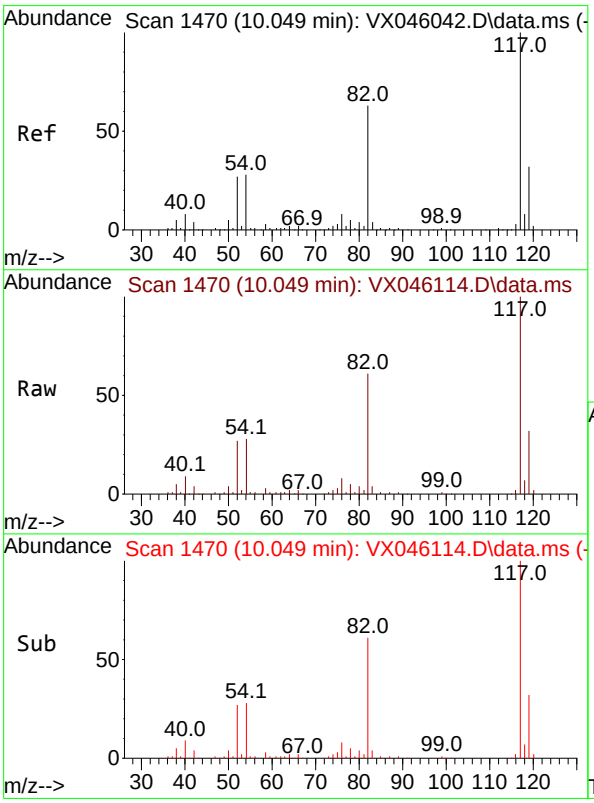

#62
4-Bromofluorobenzene
Concen: 50.762 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Tgt Ion: 95 Resp: 62168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.5 | 0.0 | 135.8 |
| 176 | 64.2 | 0.0 | 131.4 |

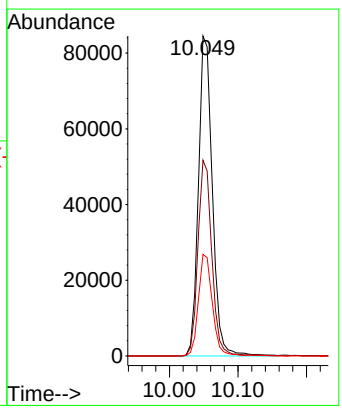


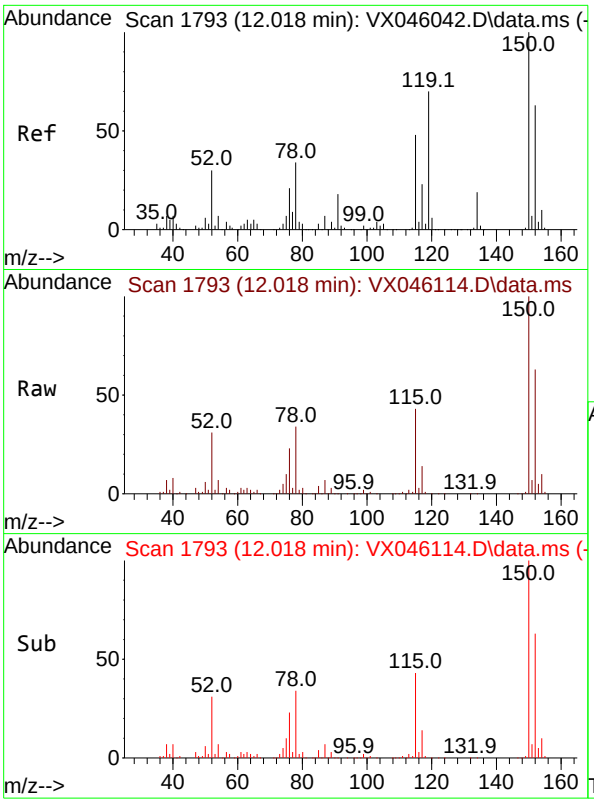




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

Tgt Ion:117 Resp: 119704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.1 | 50.6 | 76.0 |
| 119 | 31.7 | 25.8 | 38.6 |



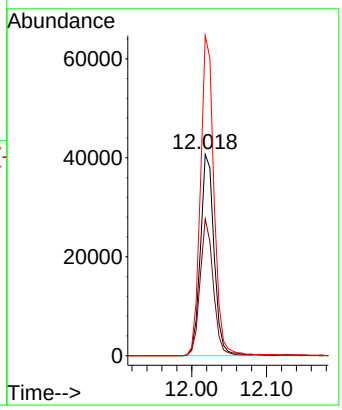



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046114.D
Acq: 09 May 2025 14:51

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Tgt Ion:152 Resp: 51999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.6 | 46.9 | 140.7 |
| 150 | 156.4 | 0.0 | 351.0 |



Sample Results: **VX046114.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046114.D
Acq On : 09 May 2025 14:51
Operator : JC/MD
Sample : Q1993-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046114.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.246 | 22 | 26 | 37 | rVB | 14509 | 23199 | 5.26% | 0.969% |
| 2 | 1.569 | 72 | 79 | 80 | rBV5 | 2970 | 5404 | 1.22% | 0.226% |
| 3 | 5.385 | 694 | 705 | 721 | rBV | 53780 | 158200 | 35.85% | 6.606% |
| 4 | 5.550 | 721 | 732 | 748 | rVV | 74615 | 217314 | 49.24% | 9.075% |
| 5 | 5.952 | 789 | 798 | 814 | rBV | 61649 | 165150 | 37.42% | 6.897% |
| 6 | 6.757 | 921 | 930 | 951 | rBV | 132672 | 325219 | 73.69% | 13.581% |
| 7 | 8.647 | 1233 | 1240 | 1251 | rBV | 277263 | 441329 | 100.00% | 18.430% |
| 8 | 10.049 | 1465 | 1470 | 1488 | rBV | 287075 | 405917 | 91.98% | 16.951% |
| 9 | 11.079 | 1634 | 1639 | 1650 | rBV | 235882 | 300276 | 68.04% | 12.539% |
| 10 | 12.018 | 1788 | 1793 | 1802 | rBV | 288237 | 352651 | 79.91% | 14.727% |

Sum of corrected areas: 2394659

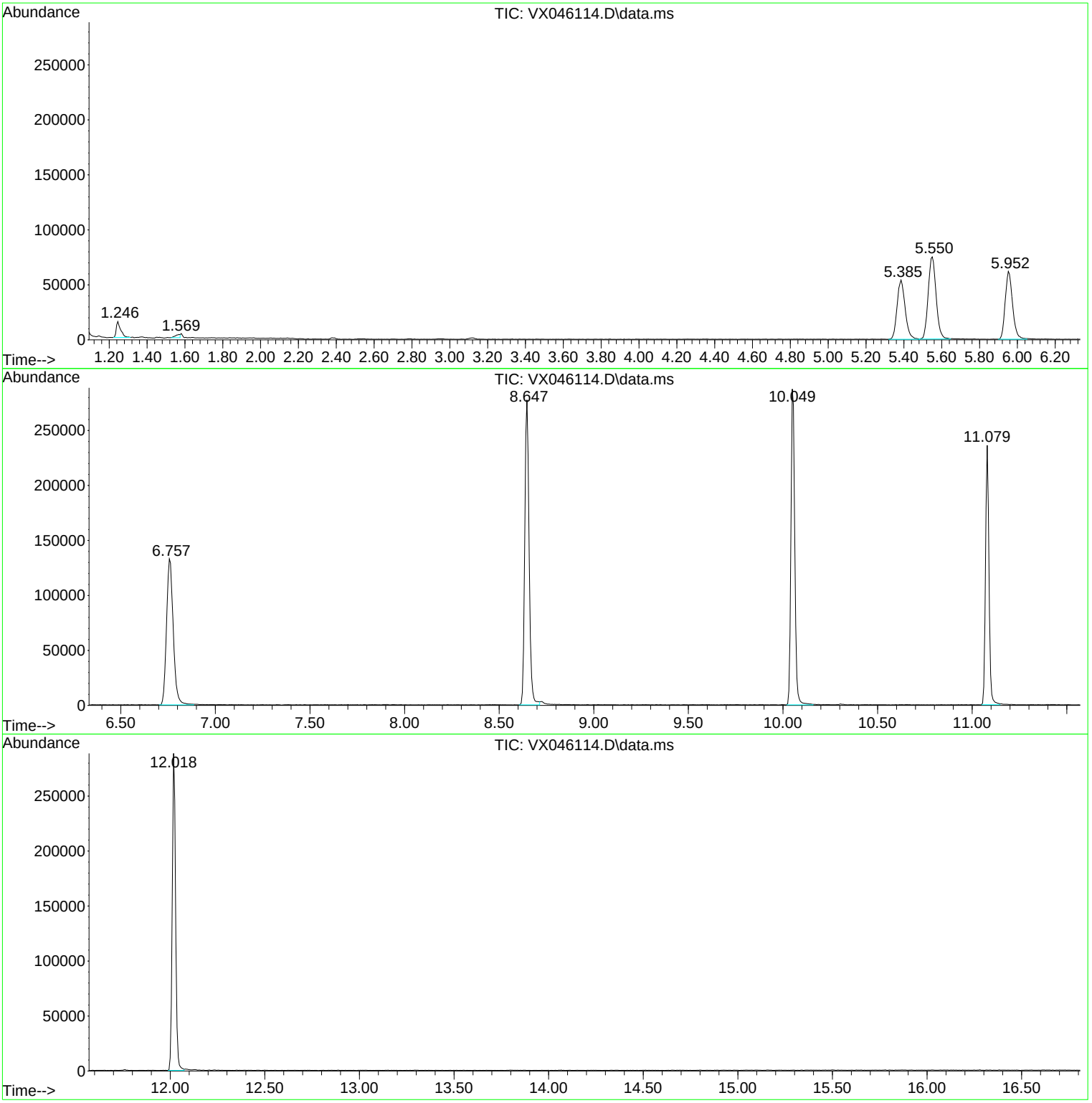
Sample Results: **VX046114.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046114.D
Acq On : 09 May 2025 14:51
Operator : JC/MD
Sample : Q1993-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046114.D
Acq On : 09 May 2025 14:51
Operator : JC/MD
Sample : Q1993-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

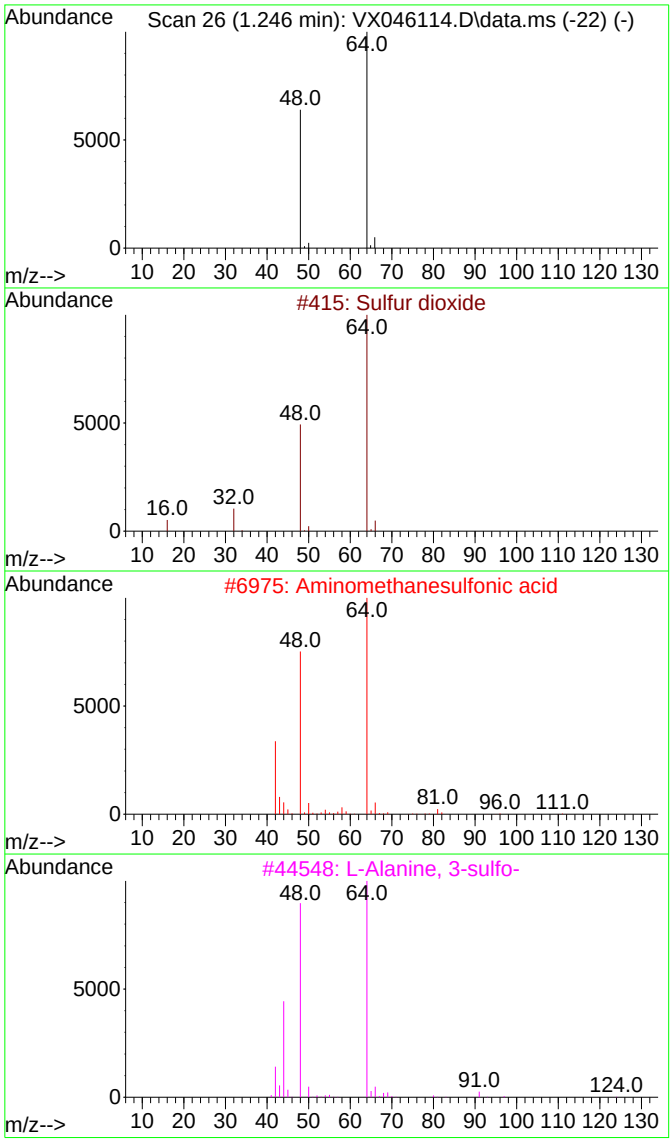
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

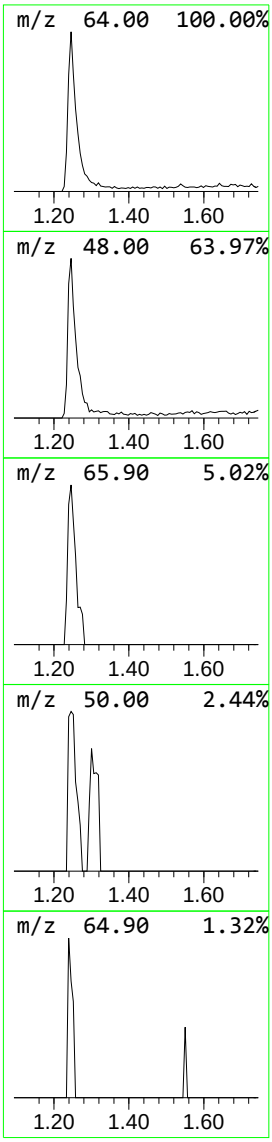
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.246 | 5.34 ug/l | 23199 | Pentafluorobenzene | 5.550 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 90 |
| 2 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 74 |
| 3 | L-Alanine, 3-sulfo- | 169 | C3H7NO5S | 000498-40-8 | 9 |
| 4 | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 5 |
| 5 | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 3 |



Sample Results: **VX046114.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046114.D
Acq On : 09 May 2025 14:51
Operator : JC/MD
Sample : Q1993-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508-A

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Sulfur dioxide | 1.246 | 5.3 | ug/l | 23199 | 1 | 5.550 | 217314 | 50.0 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-2-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-05 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046115.D | 1 | | 05/09/25 15:14 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 3.10 | J | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.48 | J | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046115.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-2-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-05 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046115.D | 1 | | 05/09/25 15:14 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.3 | | 74 - 125 | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.1 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.1 | | 86 - 113 | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.4 | | 77 - 121 | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 63600 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 130000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 120000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 51800 | 12.018 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 007446-09-5 | Sulfur dioxide | 6.40 | J | | 1.24 | ug/L |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046115.D
Acq On : 09 May 2025 15:14
Operator : JC/MD
Sample : Q1993-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Quant Time: May 09 23:16:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

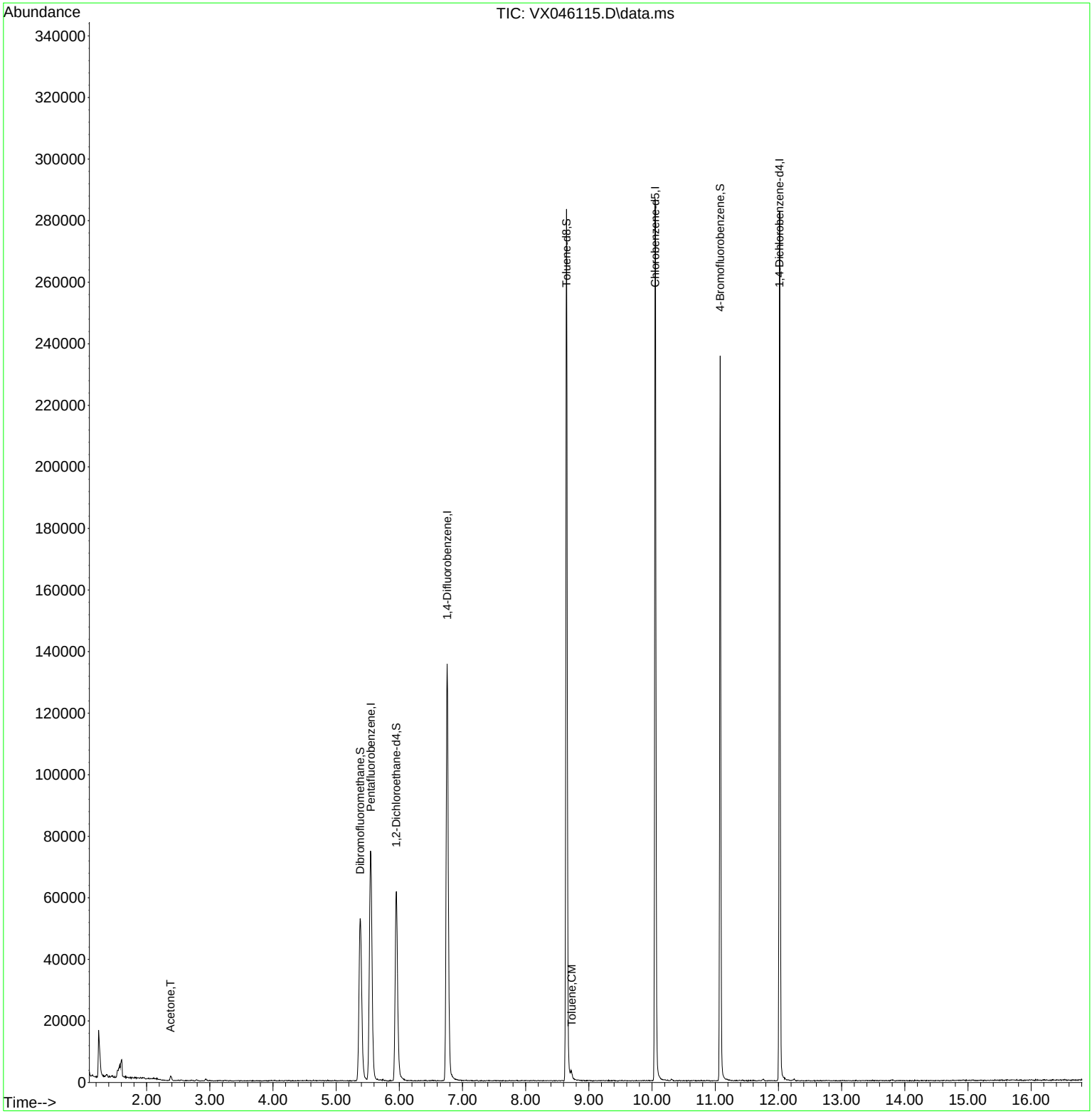
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 63587 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 130133 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 120308 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 51775 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 64369 | 54.298 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 108.600% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 46975 | 50.128 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.260% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 159259 | 49.102 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 98.200% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 60220 | 48.403 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 96.800% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.379 | 43 | 1485 | 3.124 | ug/l # | 86 |
| 52) Toluene | 8.726 | 92 | 1088 | 0.481 | ug/l | 90 |

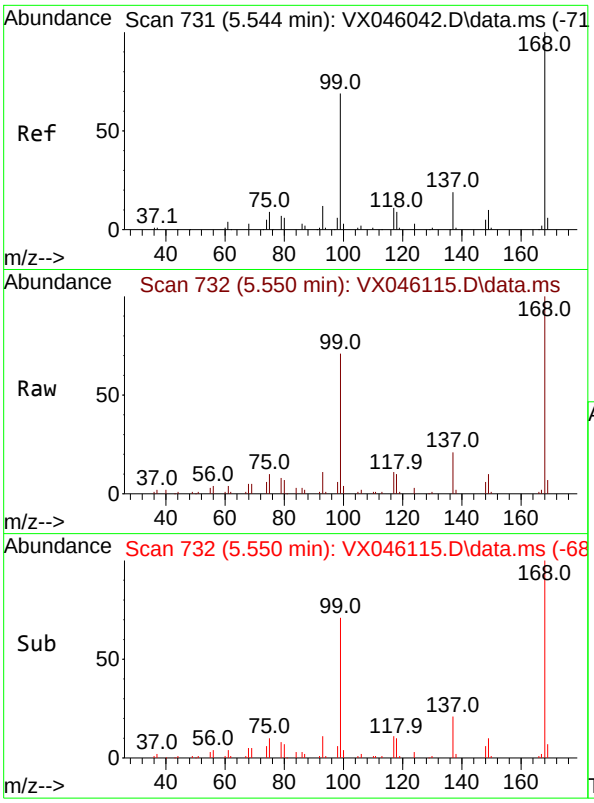
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046115.D
Acq On : 09 May 2025 15:14
Operator : JC/MD
Sample : Q1993-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Quant Time: May 09 23:16:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



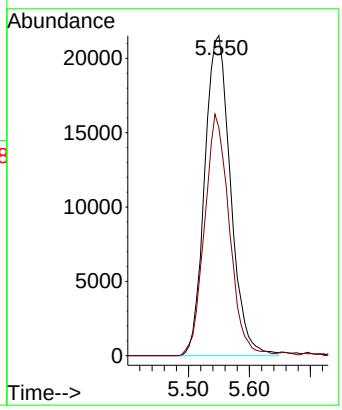


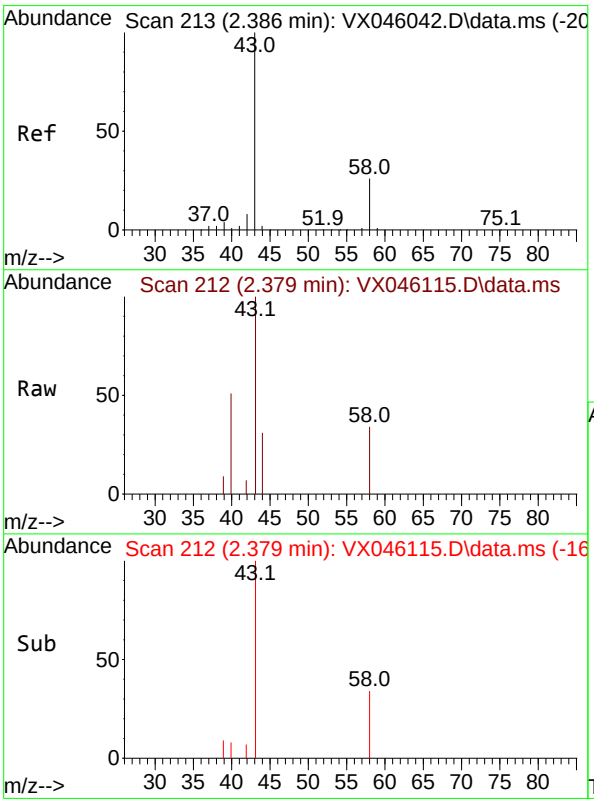

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Tgt Ion:168 Resp: 63587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 71.3 | 54.9 | 82.3 |

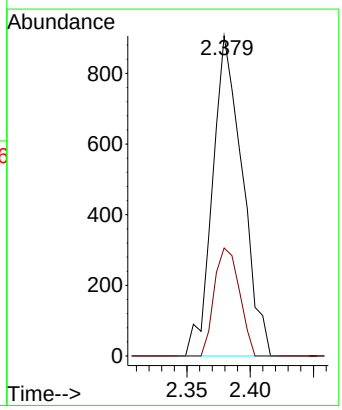


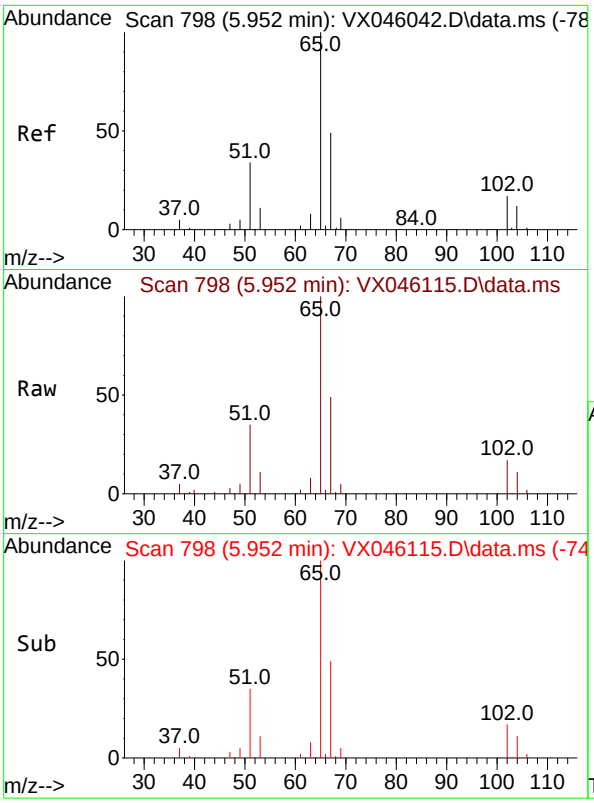




#16
Acetone
Concen: 3.124 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

Tgt Ion: 43 Resp: 1485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.8 | 21.2 | 31.8# |



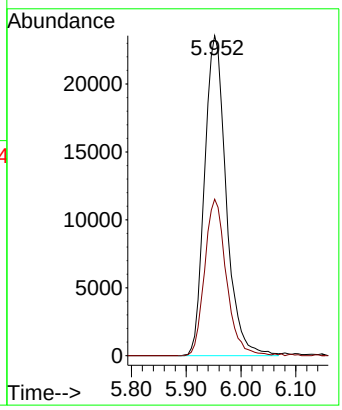


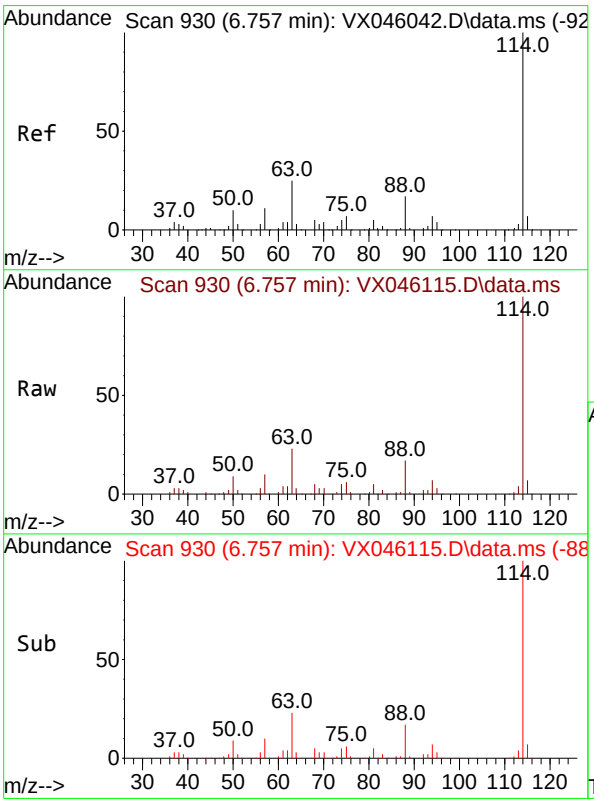

#33
1,2-Dichloroethane-d4
Concen: 54.298 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Tgt Ion: 65 Resp: 64369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.0 | 0.0 | 99.0 |

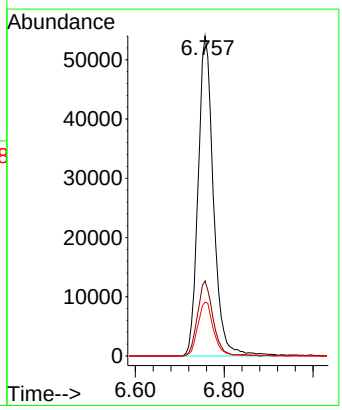


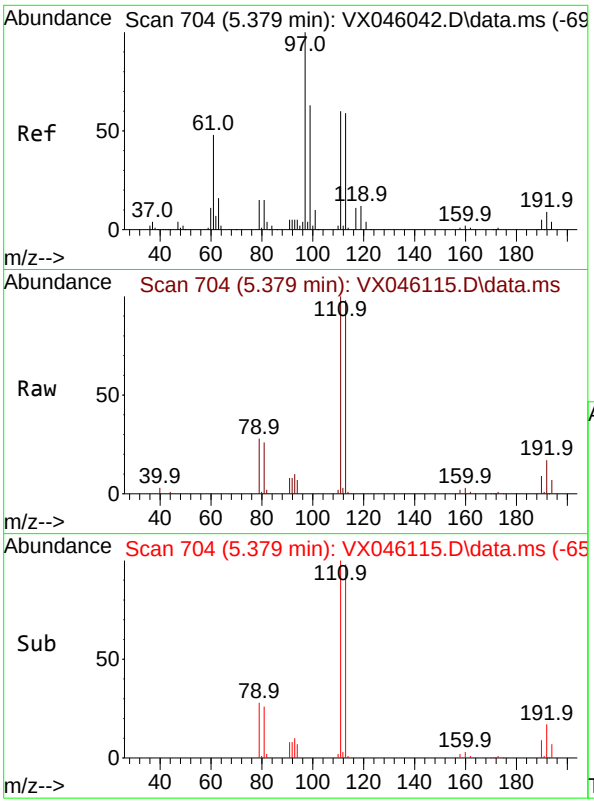




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

Tgt Ion:114 Resp: 130133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.5 | 0.0 | 49.2 |
| 88 | 16.8 | 0.0 | 33.6 |



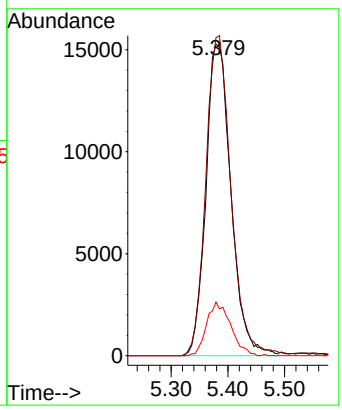


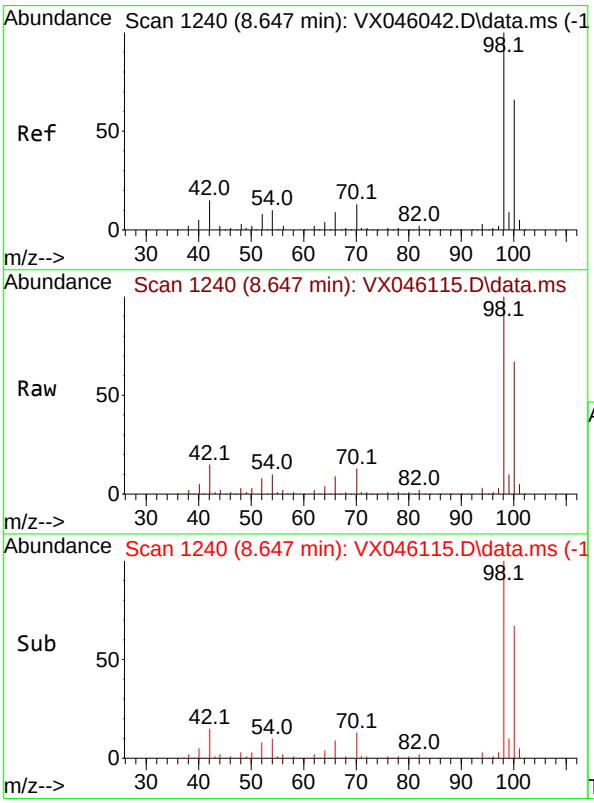

#35
Dibromofluoromethane
Concen: 50.128 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Tgt Ion:113 Resp: 46975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.3 | 83.1 | 124.7 |
| 192 | 16.5 | 13.3 | 19.9 |

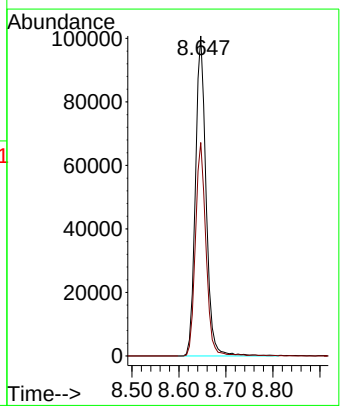


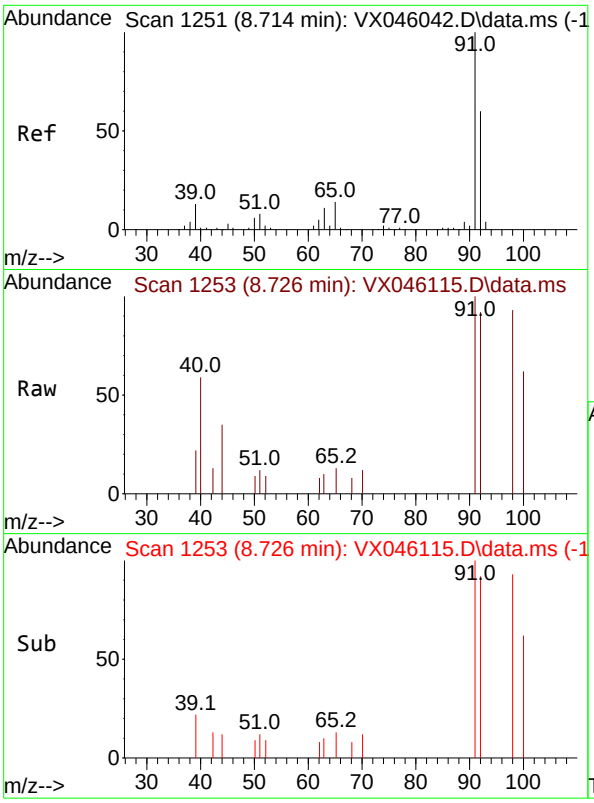




#50
Toluene-d8
Concen: 49.102 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

Tgt Ion: 98 Resp: 159259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 53.5 | 80.3 |



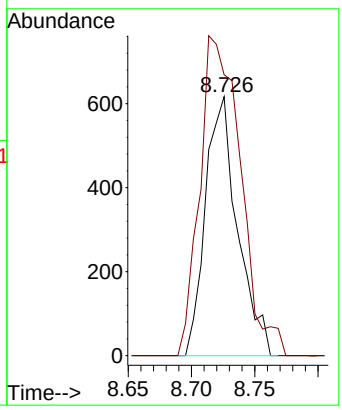


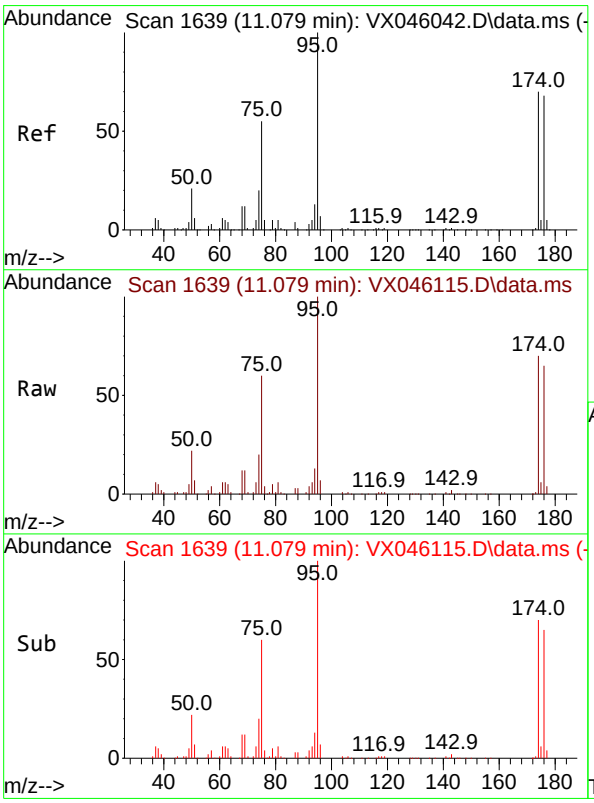

#52
Toluene
Concen: 0.481 ug/l
RT: 8.726 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Tgt Ion: 92 Resp: 1088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 156.9 | 136.6 | 205.0 |

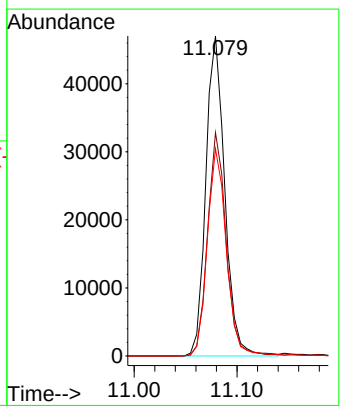


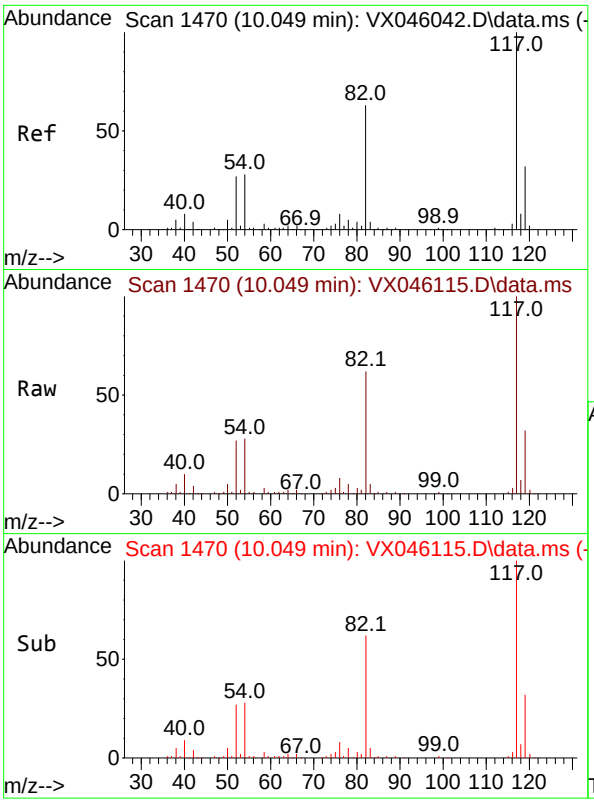




#62
4-Bromofluorobenzene
Concen: 48.403 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

Tgt Ion: 95 Resp: 60220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 68.5 | 0.0 | 135.8 |
| 176 | 65.5 | 0.0 | 131.4 |



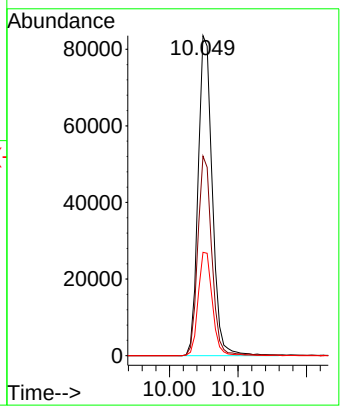


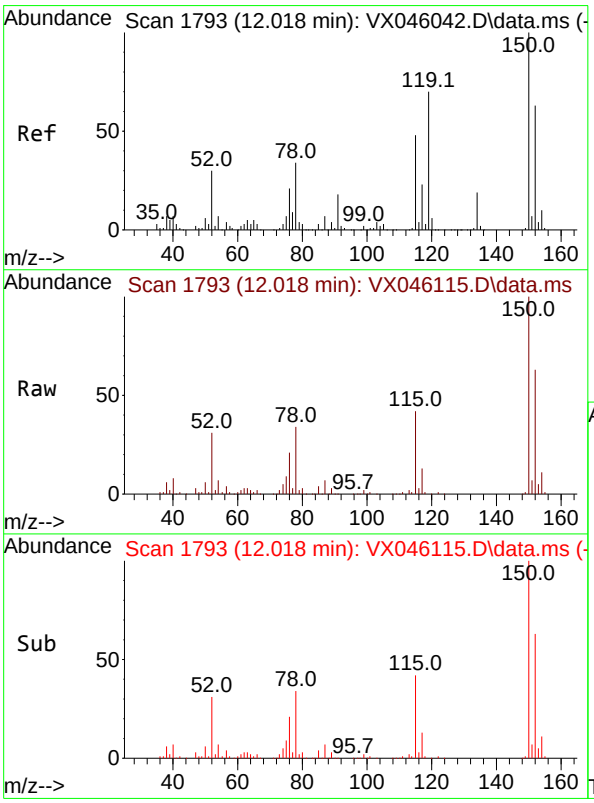

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Tgt Ion:117 Resp: 120308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.3 | 50.6 | 76.0 |
| 119 | 32.3 | 25.8 | 38.6 |

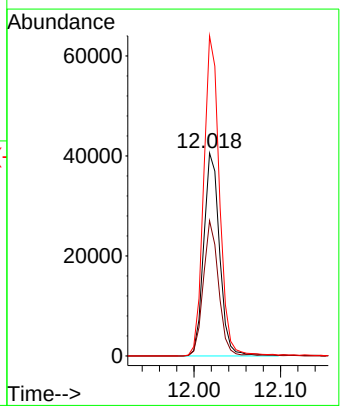



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046115.D
Acq: 09 May 2025 15:14

Tgt Ion:152 Resp: 51775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.3 | 46.9 | 140.7 |
| 150 | 157.6 | 0.0 | 351.0 |



Sample Results: **VX046115.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046115.D
Acq On : 09 May 2025 15:14
Operator : JC/MD
Sample : Q1993-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046115.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.239 | 21 | 25 | 37 | rBV | 15361 | 27409 | 6.17% | 1.137% |
| 2 | 1.605 | 81 | 85 | 88 | rVB4 | 5434 | 8750 | 1.97% | 0.363% |
| 3 | 5.379 | 693 | 704 | 722 | rBV | 52747 | 160635 | 36.18% | 6.665% |
| 4 | 5.543 | 722 | 731 | 748 | rVB | 74392 | 214457 | 48.30% | 8.898% |
| 5 | 5.952 | 789 | 798 | 819 | rBV | 61394 | 166416 | 37.48% | 6.904% |
| 6 | 6.757 | 921 | 930 | 950 | rBV | 135241 | 326502 | 73.53% | 13.546% |
| 7 | 8.647 | 1234 | 1240 | 1249 | rBV | 283118 | 444038 | 100.00% | 18.423% |
| 8 | 8.714 | 1249 | 1251 | 1260 | rVB3 | 3099 | 6092 | 1.37% | 0.253% |
| 9 | 10.049 | 1465 | 1470 | 1486 | rBV | 286397 | 405850 | 91.40% | 16.838% |
| 10 | 11.079 | 1634 | 1639 | 1654 | rBV | 235456 | 301620 | 67.93% | 12.514% |
| 11 | 12.018 | 1788 | 1793 | 1803 | rBV | 282489 | 348487 | 78.48% | 14.459% |

Sum of corrected areas: 2410256

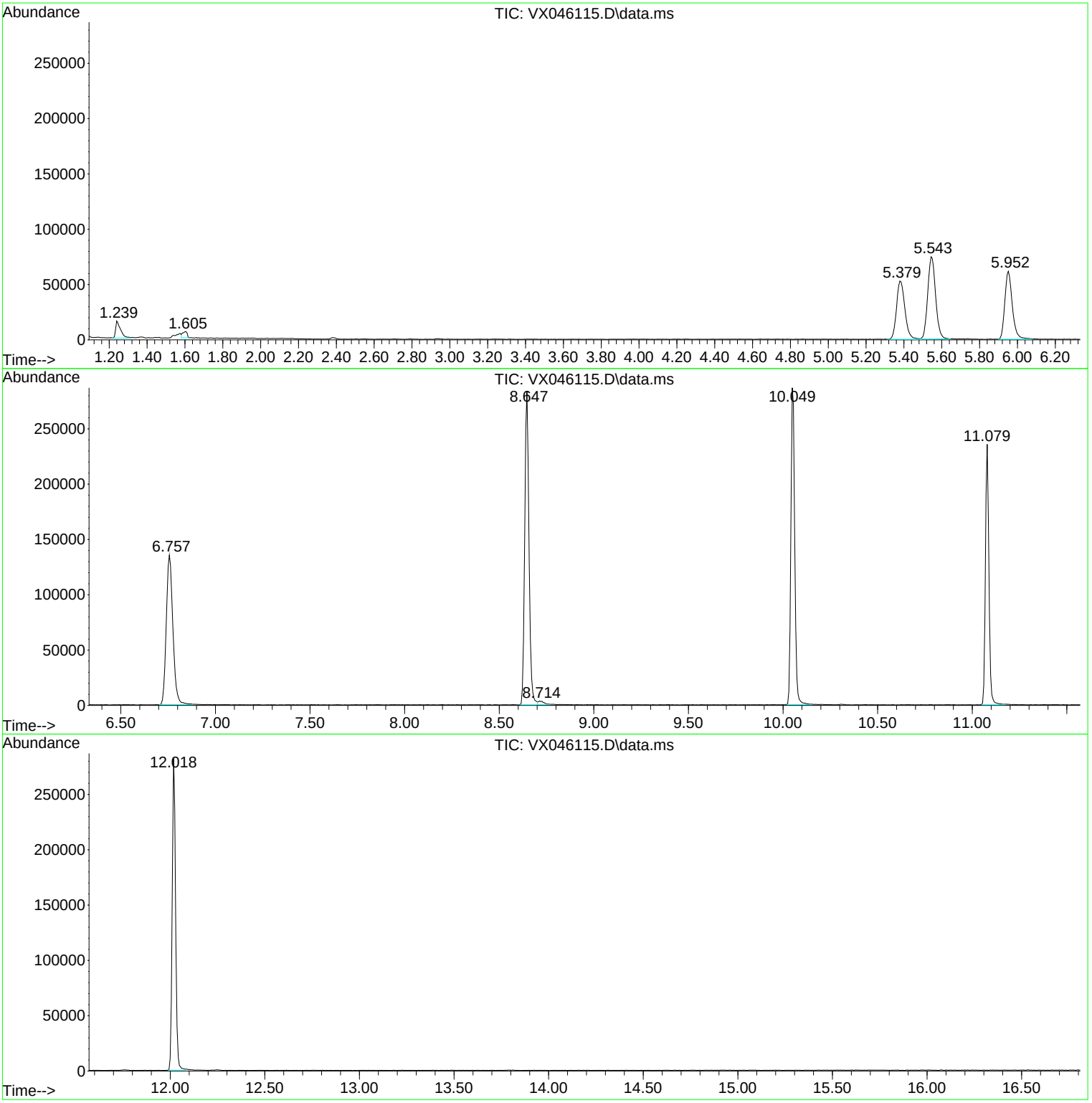
Sample Results: **VX046115.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046115.D
Acq On : 09 May 2025 15:14
Operator : JC/MD
Sample : Q1993-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046115.D
Acq On : 09 May 2025 15:14
Operator : JC/MD
Sample : Q1993-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

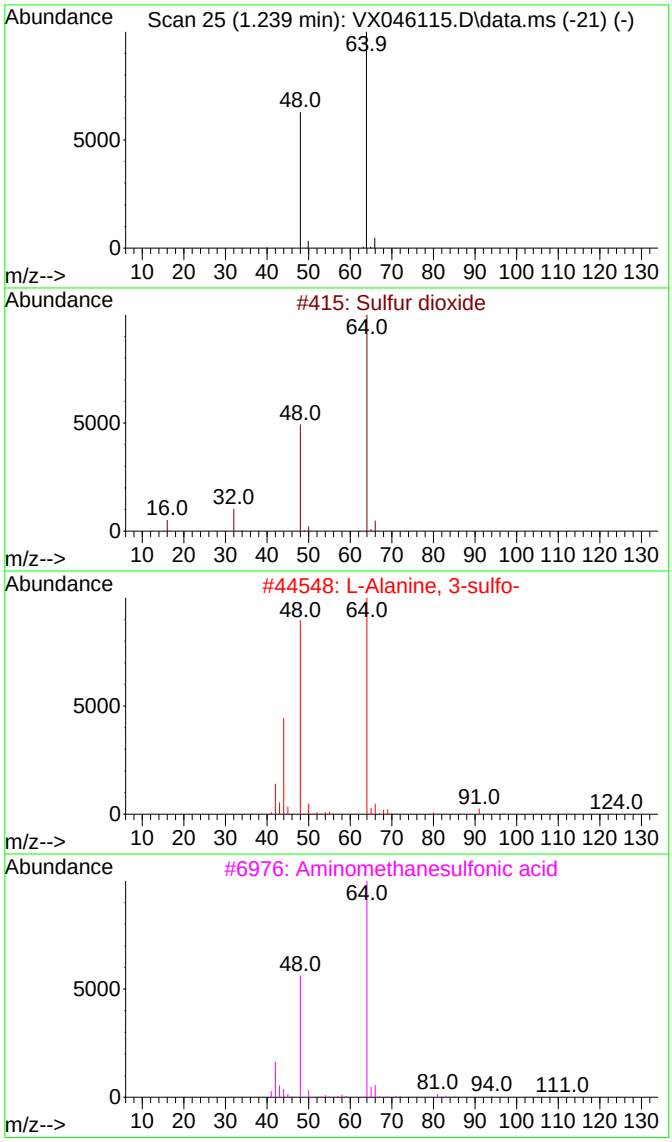
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

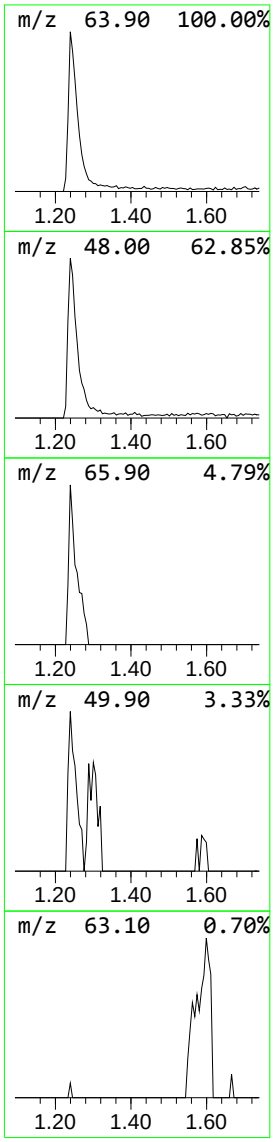
**********

Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.239 | 6.39 ug/l | 27409 | Pentafluorobenzene | 5.550 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 90 |
| 2 | L-Alanine, 3-sulfo- | 169 | C3H7NO5S | 000498-40-8 | 64 |
| 3 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 9 |
| 4 | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 4 |
| 5 | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 4 |



Sample Results: **VX046115.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046115.D
Acq On : 09 May 2025 15:14
Operator : JC/MD
Sample : Q1993-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-2-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Sulfur dioxide | 1.239 | 6.4 | ug/l | 27409 | 1 | 5.550 | 214457 | 50.0 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-1-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-06 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046116.D | 1 | | 05/09/25 15:37 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 4.00 | J | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.72 | J | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046116.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-1-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-06 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046116.D | 1 | | 05/09/25 15:37 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.6 | | 74 - 125 | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.5 | | 75 - 124 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.6 | | 86 - 113 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.4 | | 77 - 121 | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 62100 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 122000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 116000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 50300 | 12.018 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 007446-09-5 | Sulfur dioxide | 5.90 | J | | 1.24 | ug/L |
| 60-29-7 | Diethyl Ether | 2.20 | J | | 2.14 | ug/L |
| 75-65-0 | Tert butyl alcohol | 25.7 | J | | 2.96 | ug/L |
| 000464-48-2 | Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimet | 5.90 | J | | 13.5 | ug/L |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046116.D
Acq On : 09 May 2025 15:37
Operator : JC/MD
Sample : Q1993-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Quant Time: May 09 23:16:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

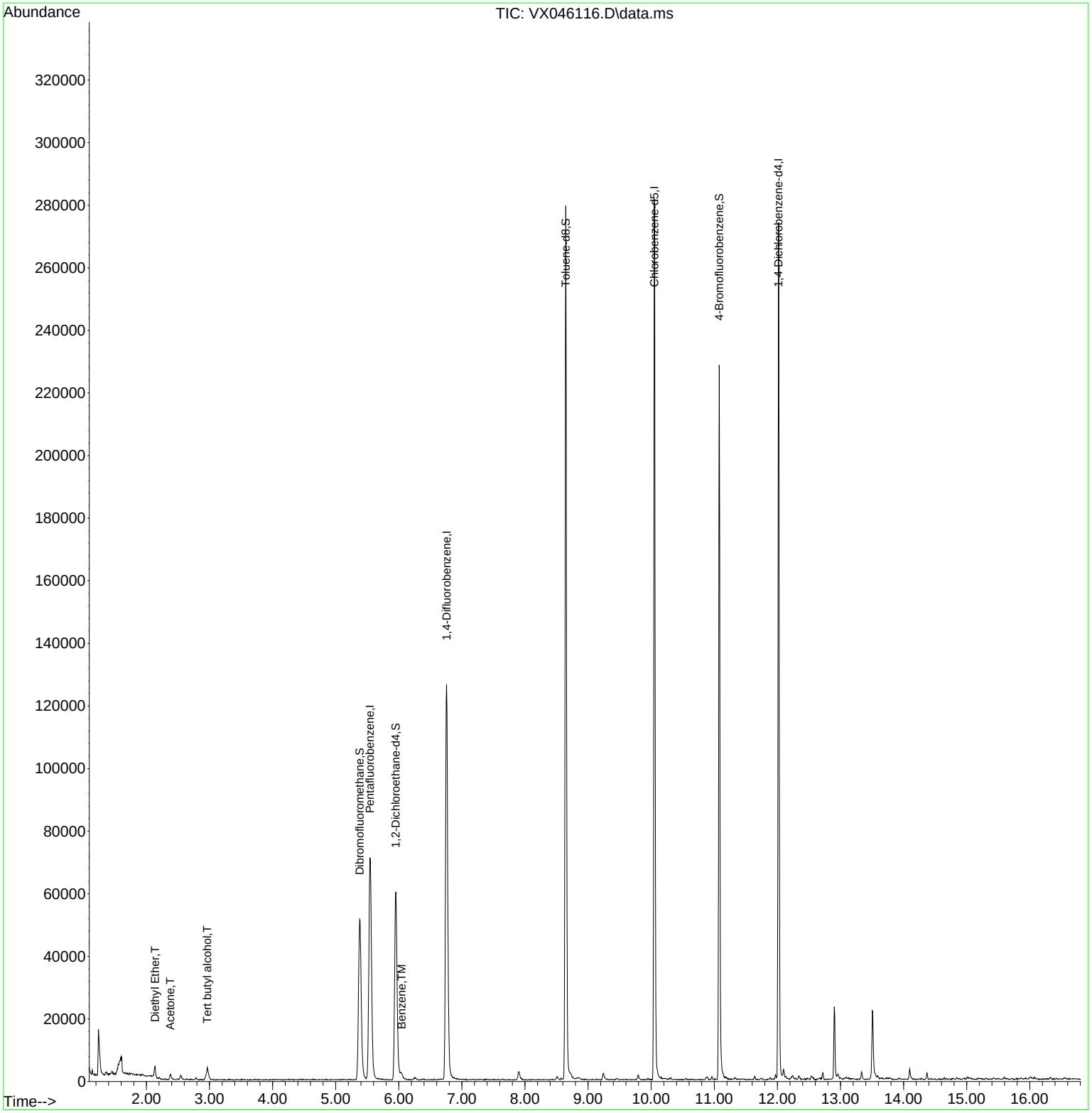
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 62076 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 122260 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 116217 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 50295 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 61978 | 53.554 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.100% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 46228 | 52.508 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 105.020% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 154109 | 50.574 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.140% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 60032 | 51.360 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.720% | | | |
| Target Compounds | | | | | | Qvalue |
| 8) Diethyl Ether | 2.136 | 74 | 942 | 2.183 | ug/l | 69 |
| 11) Tert butyl alcohol | 2.965 | 59 | 4176 | 25.706 | ug/l # | 90 |
| 16) Acetone | 2.380 | 43 | 1845 | 3.976 | ug/l | 91 |
| 40) Benzene | 6.044 | 78 | 2485 | 0.717 | ug/l # | 75 |

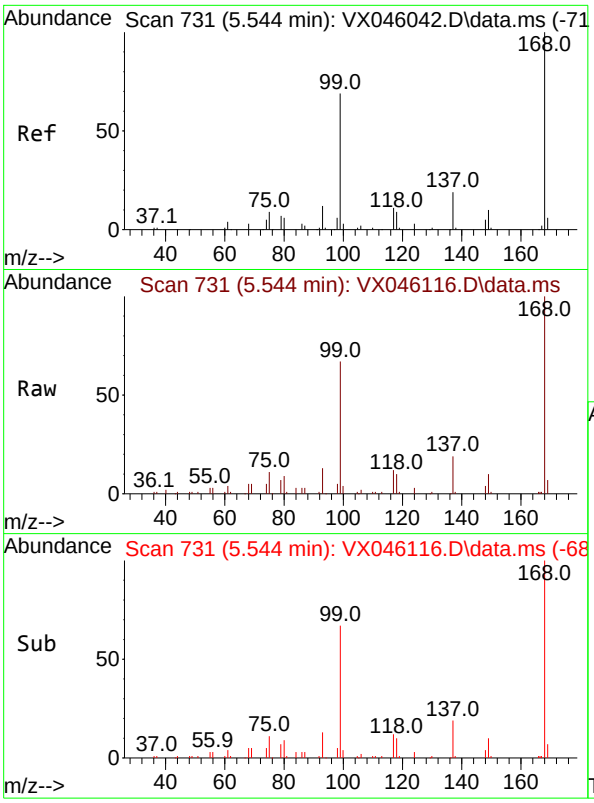
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046116.D
Acq On : 09 May 2025 15:37
Operator : JC/MD
Sample : Q1993-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Quant Time: May 09 23:16:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



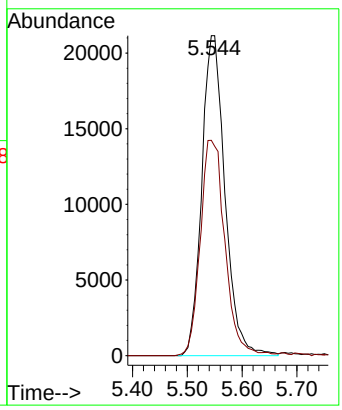


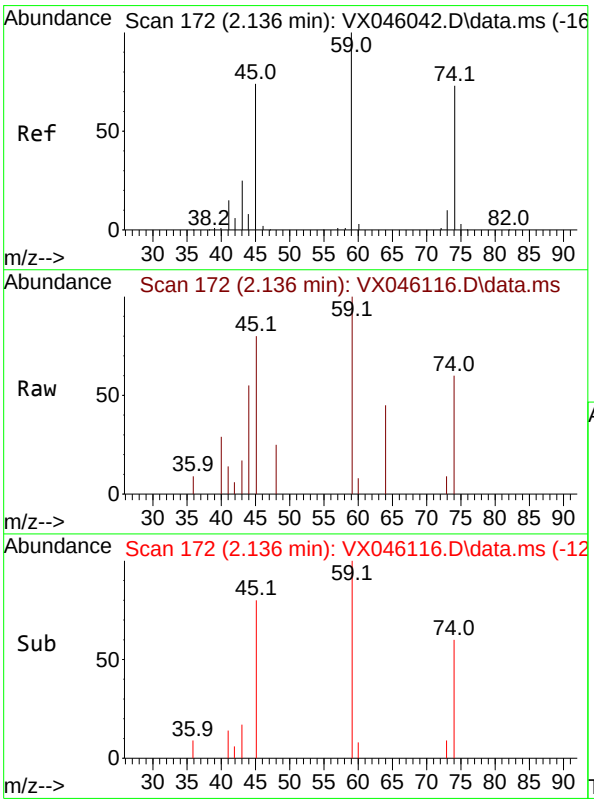

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Tgt Ion:168 Resp: 62076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 67.1 | 54.9 | 82.3 |

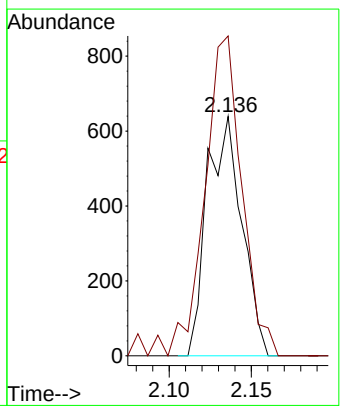


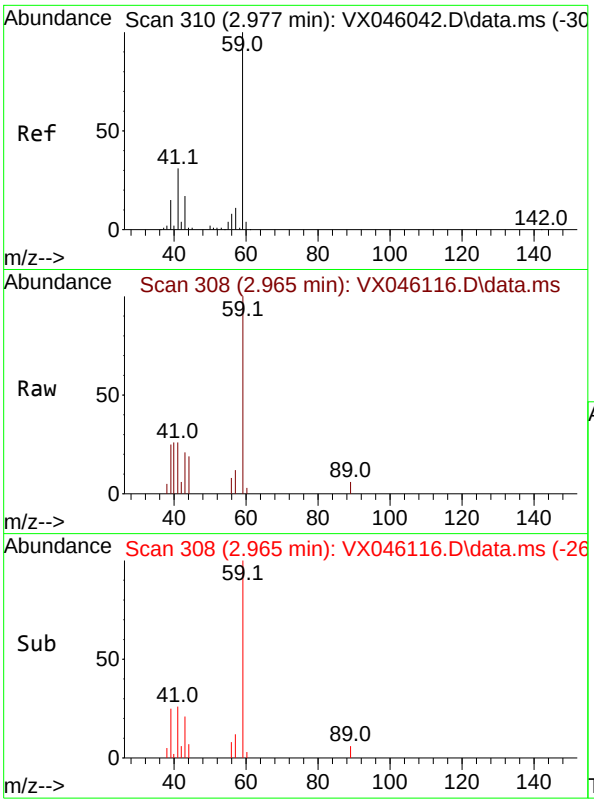




#8
Diethyl Ether
Concen: 2.183 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

Tgt Ion: 74 Resp: 942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 142.9 | 54.9 | 164.8 |



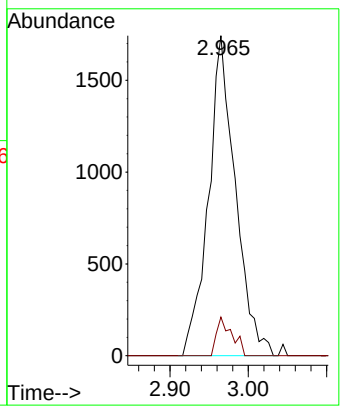


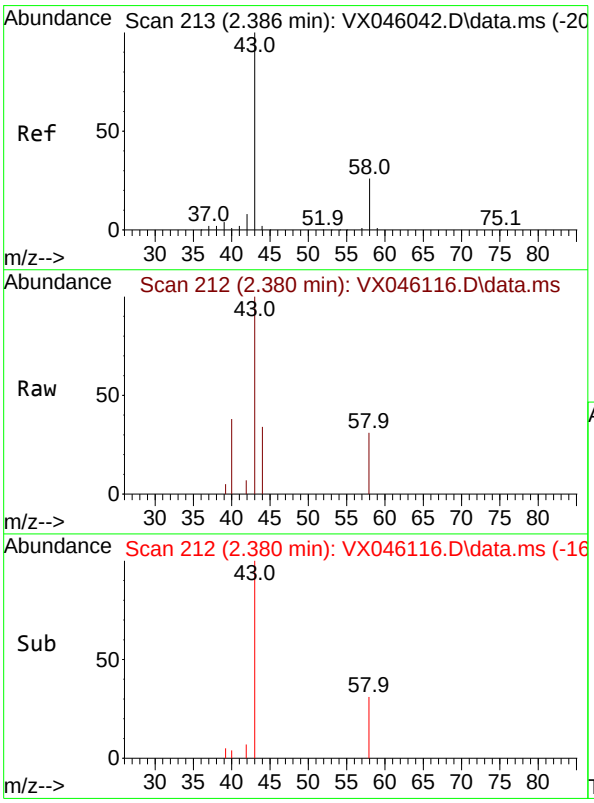

#11
Tert butyl alcohol
Concen: 25.706 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Tgt Ion: 59 Resp: 4176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.8 | 8.6 | 12.8# |

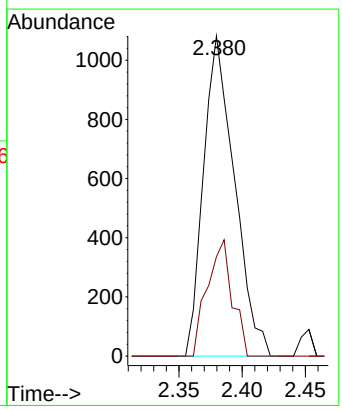


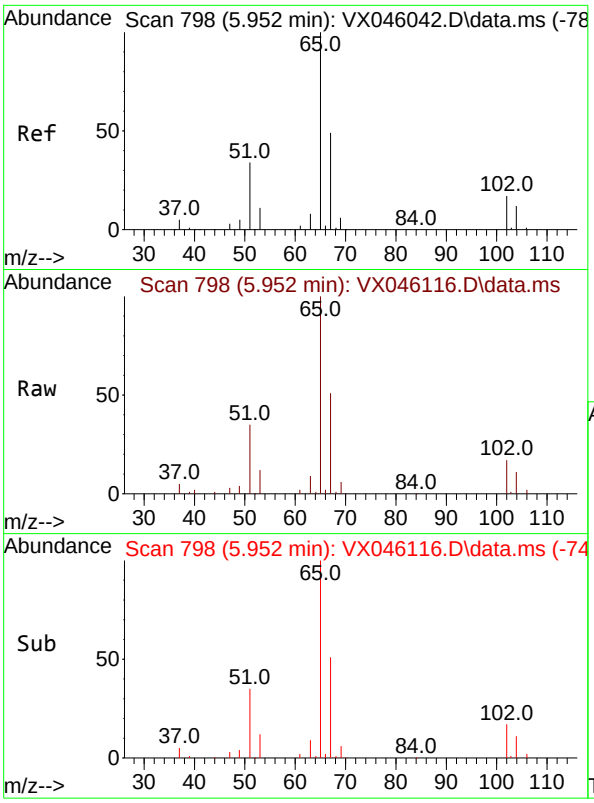




#16
Acetone
Concen: 3.976 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

Tgt Ion: 43 Resp: 1845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.1 | 21.2 | 31.8 |



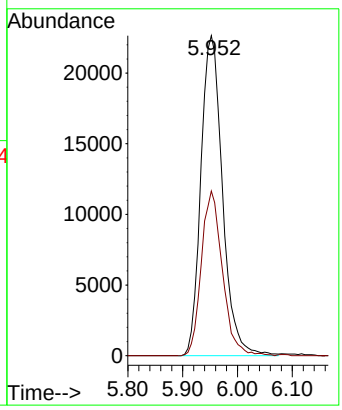


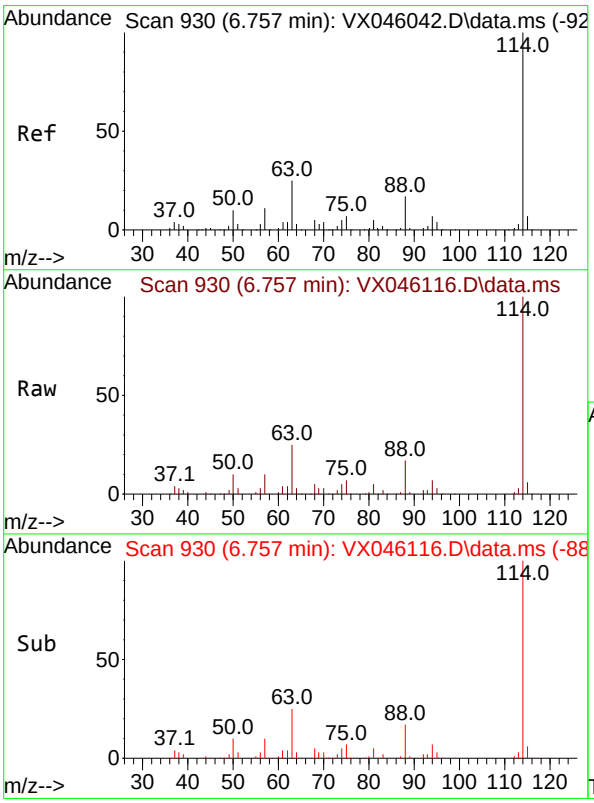

#33
1,2-Dichloroethane-d4
Concen: 53.554 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Tgt Ion: 65 Resp: 61978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.2 | 0.0 | 99.0 |

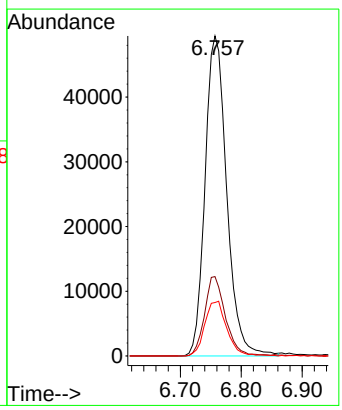


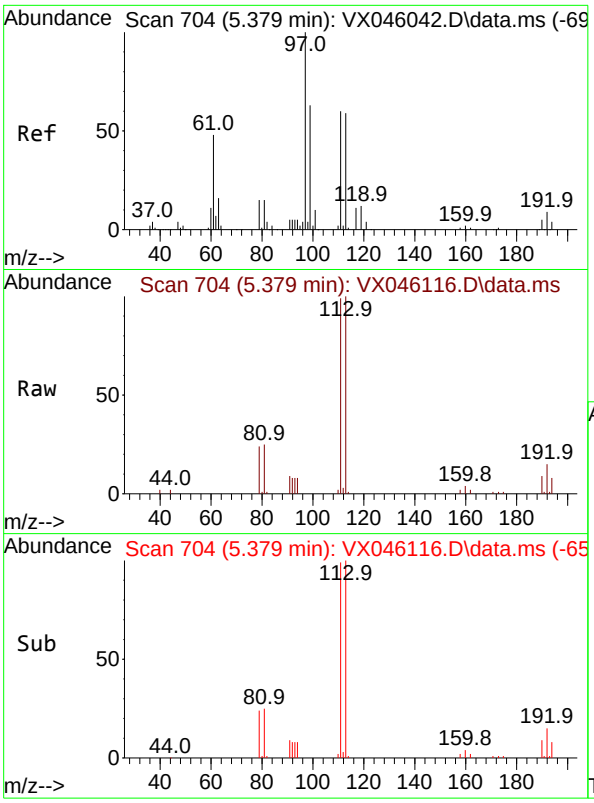




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

Tgt Ion:114 Resp: 122260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.8 | 0.0 | 49.2 |
| 88 | 16.7 | 0.0 | 33.6 |



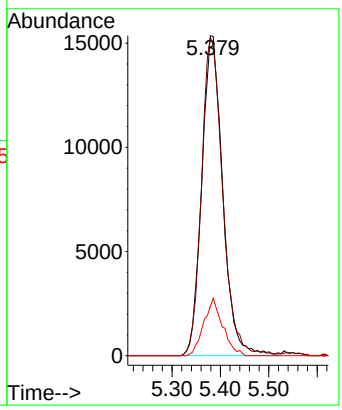


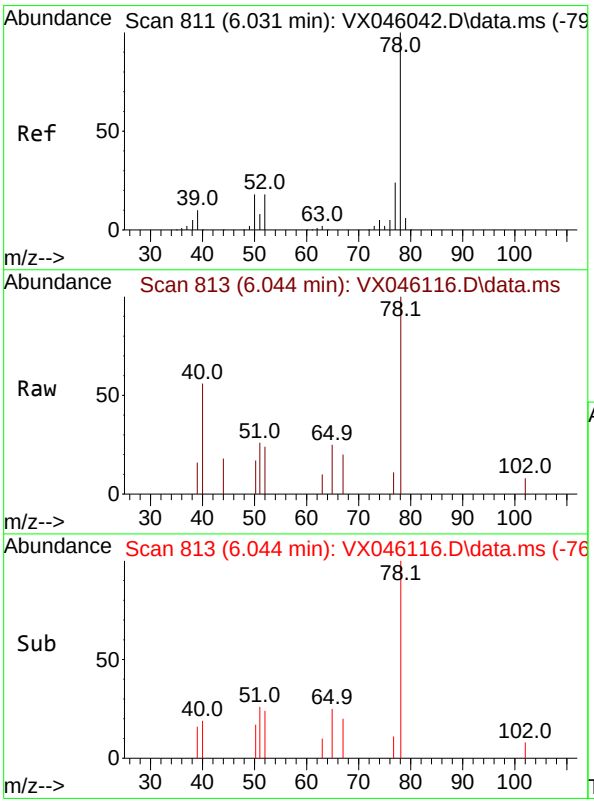

#35
Dibromofluoromethane
Concen: 52.508 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Tgt Ion:113 Resp: 46228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.4 | 83.1 | 124.7 |
| 192 | 16.3 | 13.3 | 19.9 |

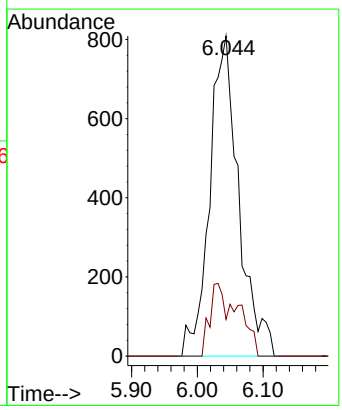


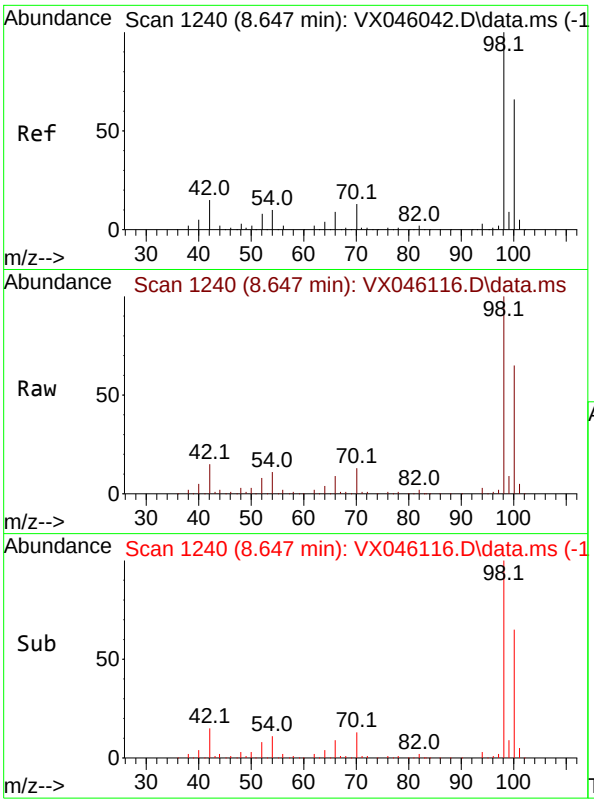




#40
Benzene
Concen: 0.717 ug/l
RT: 6.044 min Scan# 813
Delta R.T. 0.012 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

Tgt Ion: 78 Resp: 2485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 11.5 | 19.0 | 28.4# |



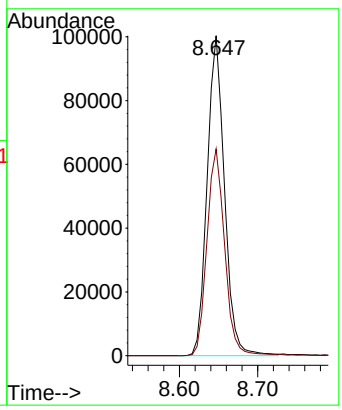


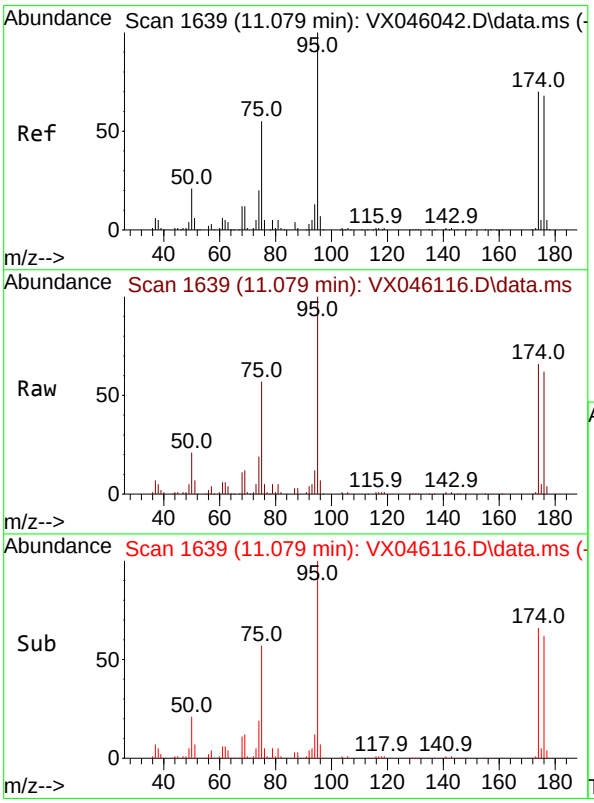

#50
Toluene-d8
Concen: 50.574 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Tgt Ion: 98 Resp: 154109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.3 | 53.5 | 80.3 |

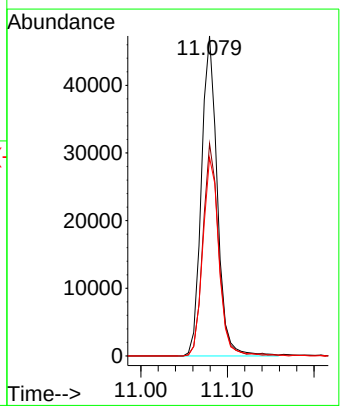


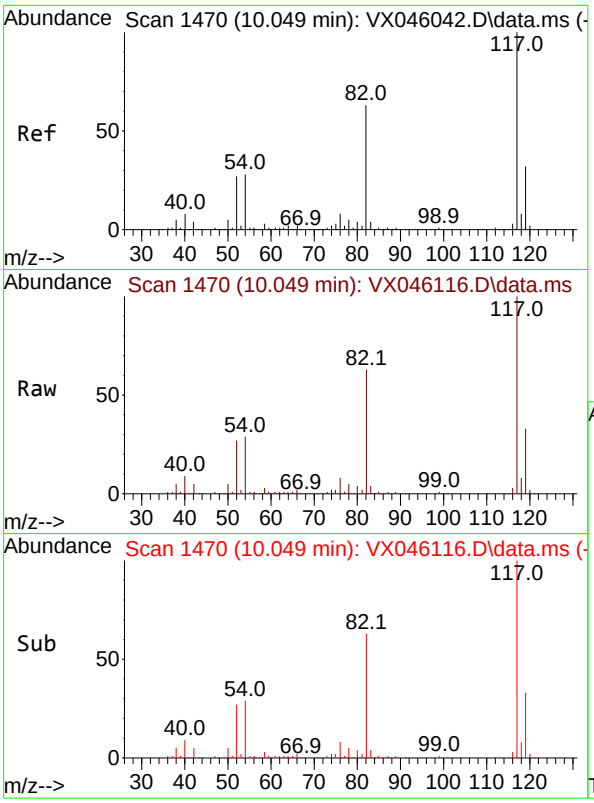




#62
4-Bromofluorobenzene
Concen: 51.360 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

Tgt Ion: 95 Resp: 60032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.4 | 0.0 | 135.8 |
| 176 | 63.2 | 0.0 | 131.4 |



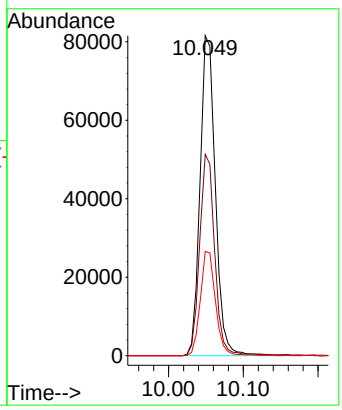


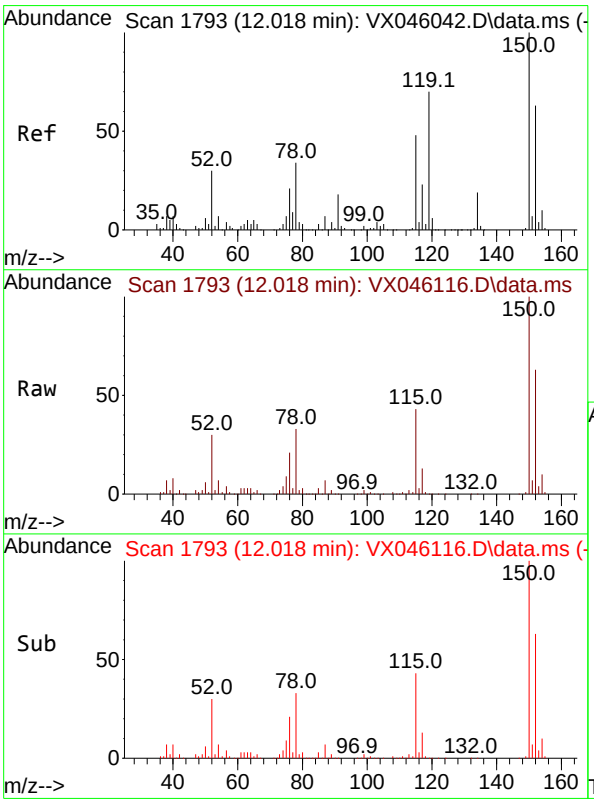

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Tgt Ion:117 Resp: 116217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.9 | 50.6 | 76.0 |
| 119 | 32.6 | 25.8 | 38.6 |

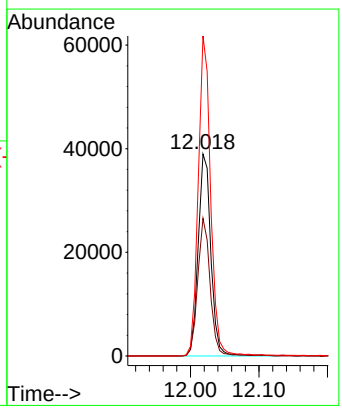



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046116.D
Acq: 09 May 2025 15:37

Tgt Ion:152 Resp: 50295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.6 | 46.9 | 140.7 |
| 150 | 154.2 | 0.0 | 351.0 |



Sample Results: **VX046116.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046116.D
Acq On : 09 May 2025 15:37
Operator : JC/MD
Sample : Q1993-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046116.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.240 | 22 | 25 | 33 | rBV | 14788 | 24734 | 5.69% | 1.013% |
| 2 | 1.551 | 70 | 76 | 77 | rBV2 | 3266 | 4579 | 1.05% | 0.188% |
| 3 | 2.136 | 168 | 172 | 178 | rVB4 | 3814 | 6184 | 1.42% | 0.253% |
| 4 | 2.965 | 299 | 308 | 317 | rBV4 | 3996 | 10045 | 2.31% | 0.411% |
| 5 | 5.379 | 694 | 704 | 721 | rBV | 51288 | 154603 | 35.59% | 6.331% |
| 6 | 5.544 | 721 | 731 | 751 | rVB2 | 70838 | 208268 | 47.94% | 8.528% |
| 7 | 5.952 | 788 | 798 | 809 | rBV | 60186 | 163268 | 37.58% | 6.686% |
| 8 | 6.757 | 921 | 930 | 942 | rBV2 | 126189 | 310067 | 71.37% | 12.697% |
| 9 | 7.903 | 1111 | 1118 | 1123 | rBV3 | 2646 | 5639 | 1.30% | 0.231% |
| 10 | 8.647 | 1234 | 1240 | 1257 | rBV | 278752 | 434439 | 100.00% | 17.790% |
| 11 | 9.238 | 1331 | 1337 | 1346 | rBV4 | 2180 | 4788 | 1.10% | 0.196% |
| 12 | 10.049 | 1465 | 1470 | 1486 | rBV | 281516 | 397628 | 91.53% | 16.283% |
| 13 | 11.079 | 1633 | 1639 | 1658 | rBV | 228337 | 301059 | 69.30% | 12.328% |
| 14 | 12.018 | 1788 | 1793 | 1802 | rBV | 273285 | 339540 | 78.16% | 13.904% |
| 15 | 12.902 | 1930 | 1938 | 1944 | rBV | 23131 | 31892 | 7.34% | 1.306% |
| 16 | 13.506 | 2028 | 2037 | 2048 | rBV | 21947 | 39779 | 9.16% | 1.629% |
| 17 | 14.097 | 2128 | 2134 | 2145 | rVB3 | 3402 | 5528 | 1.27% | 0.226% |

Sum of corrected areas: 2442040

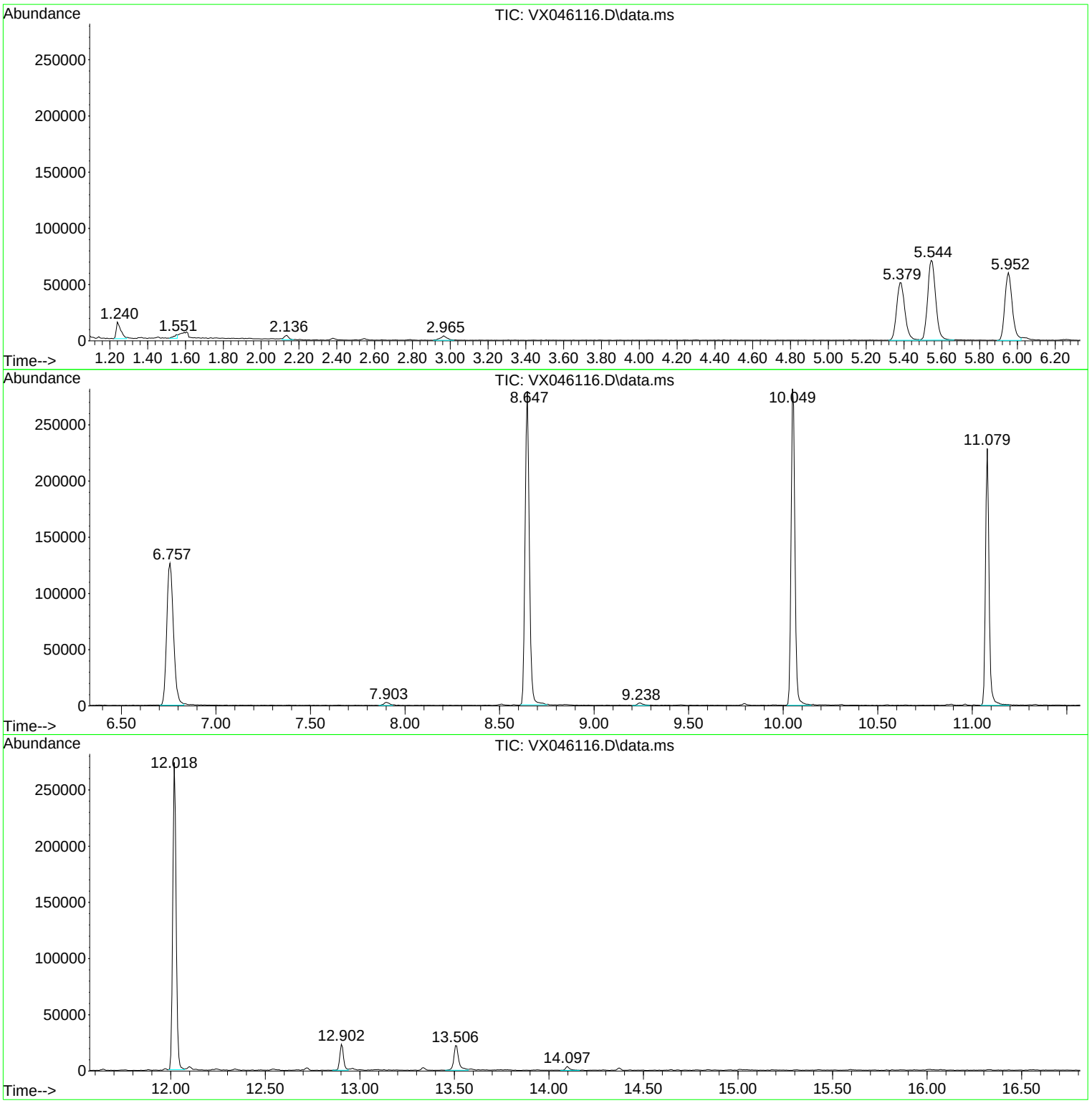
Sample Results: **VX046116.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046116.D
Acq On : 09 May 2025 15:37
Operator : JC/MD
Sample : Q1993-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046116.D
Acq On : 09 May 2025 15:37
Operator : JC/MD
Sample : Q1993-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

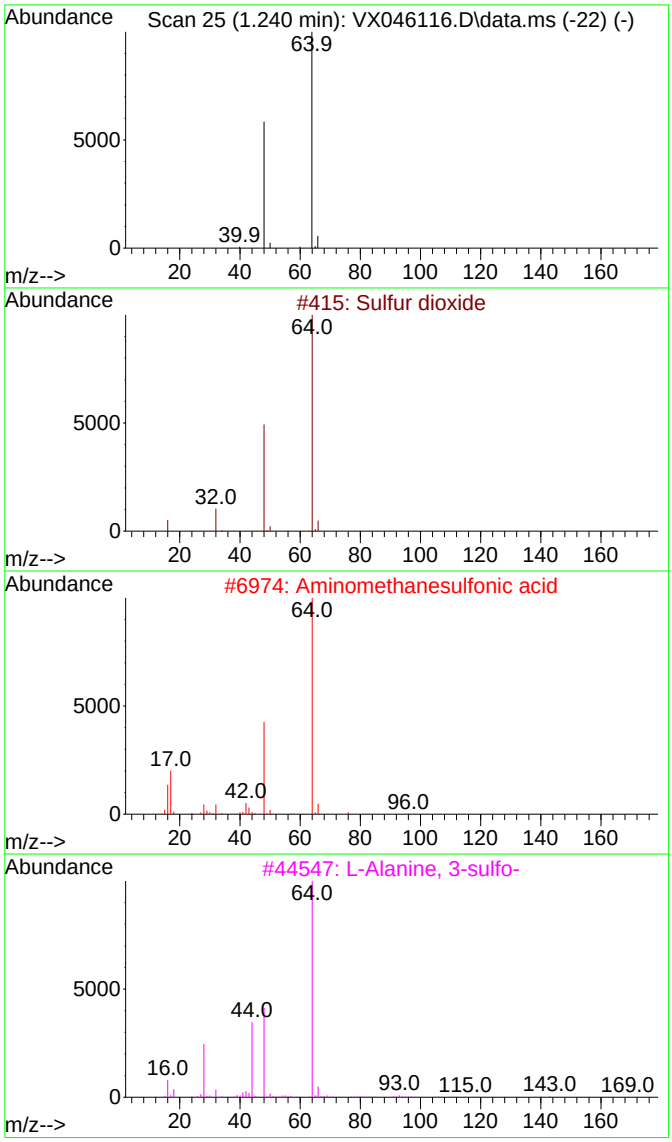
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

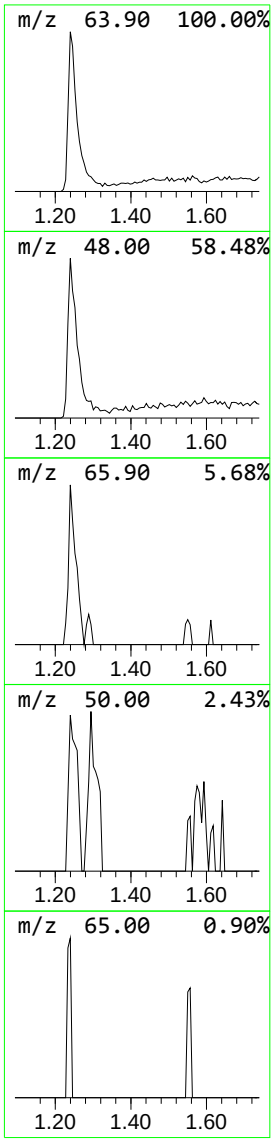
**********

Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.240 | 5.94 ug/l | 24734 | Pentafluorobenzene | 5.544 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 90 |
| 2 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 64 |
| 3 | L-Alanine, 3-sulfo- | 169 | C3H7NO5S | 000498-40-8 | 9 |
| 4 | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 4 |
| 5 | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 3 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046116.D
Acq On : 09 May 2025 15:37
Operator : JC/MD
Sample : Q1993-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

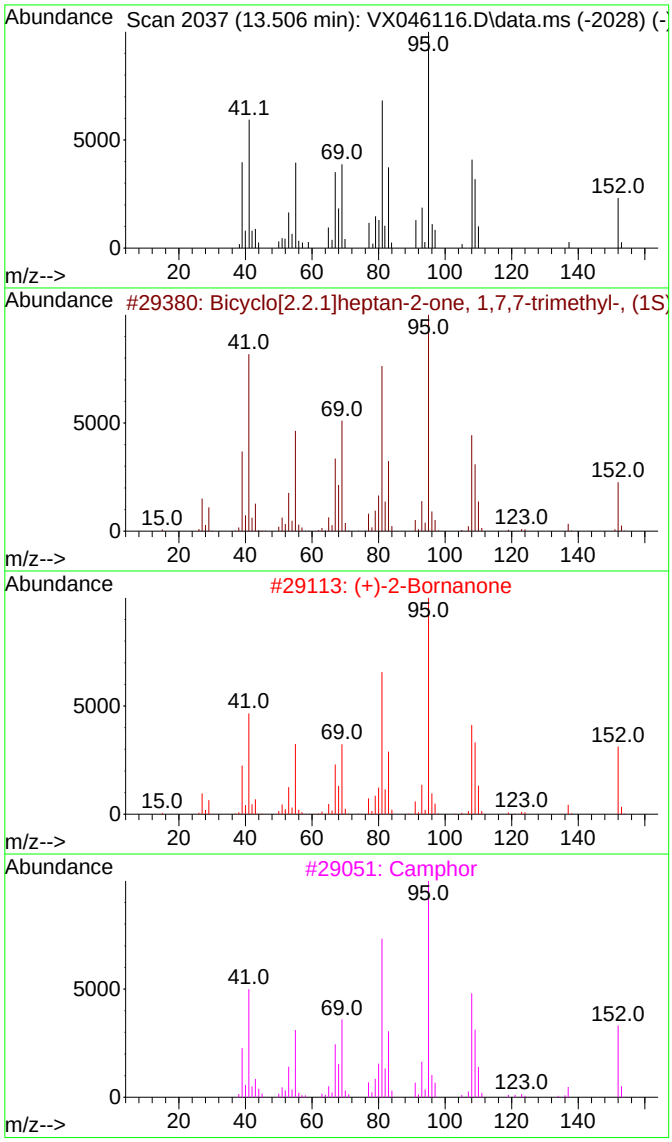
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

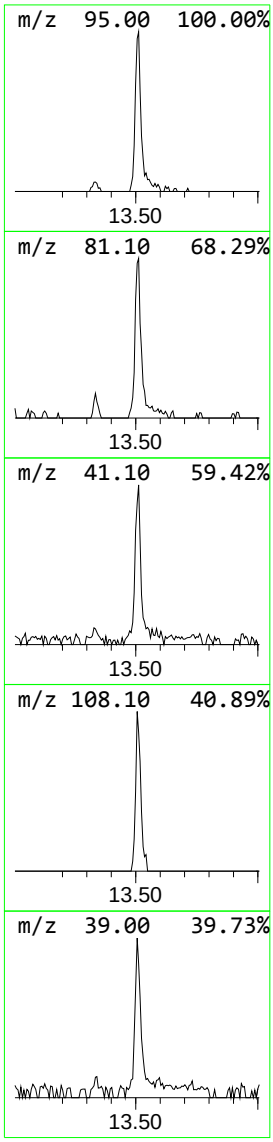
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.506 | 5.86 ug/l | 39779 | 1,4-Dichlorobenzene-d4 | 12.018 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 96 |
| 2 | (+)-2-Bornanone | 152 | C10H16O | 000464-49-3 | 95 |
| 3 | Camphor | 152 | C10H16O | 000076-22-2 | 93 |
| 4 | 1,4-Pentadiene, 2,3,3-trimethyl- | 110 | C8H14 | 000756-02-5 | 46 |
| 5 | 2-Butanone, 4-(5-methyl-2-furanyl)- | 152 | C9H12O2 | 013679-56-6 | 38 |



Sample Results: **VX046116.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046116.D
Acq On : 09 May 2025 15:37
Operator : JC/MD
Sample : Q1993-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-1-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Sulfur dioxide | 1.240 | 5.9 | ug/l | 24734 | 1 | 5.544 | 208268 | 50.0 |
| Bicyclo[2.2.1]h... | 13.506 | 5.9 | ug/l | 39779 | 4 | 12.018 | 339540 | 50.0 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-4-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-07 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046117.D | 1 | | 05/09/25 16:01 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 2.20 | J | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046117.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-4-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-07 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046117.D | 1 | | 05/09/25 16:01 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.1 | | 74 - 125 | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.8 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.1 | | 86 - 113 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.5 | | 77 - 121 | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 63300 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 129000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 120000 | 10.055 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 51000 | 12.018 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 007446-09-5 | Sulfur dioxide | 7.40 | J | | 1.24 | ug/L |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX046117.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046117.D
Acq On : 09 May 2025 16:01
Operator : JC/MD
Sample : Q1993-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Quant Time: May 09 23:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

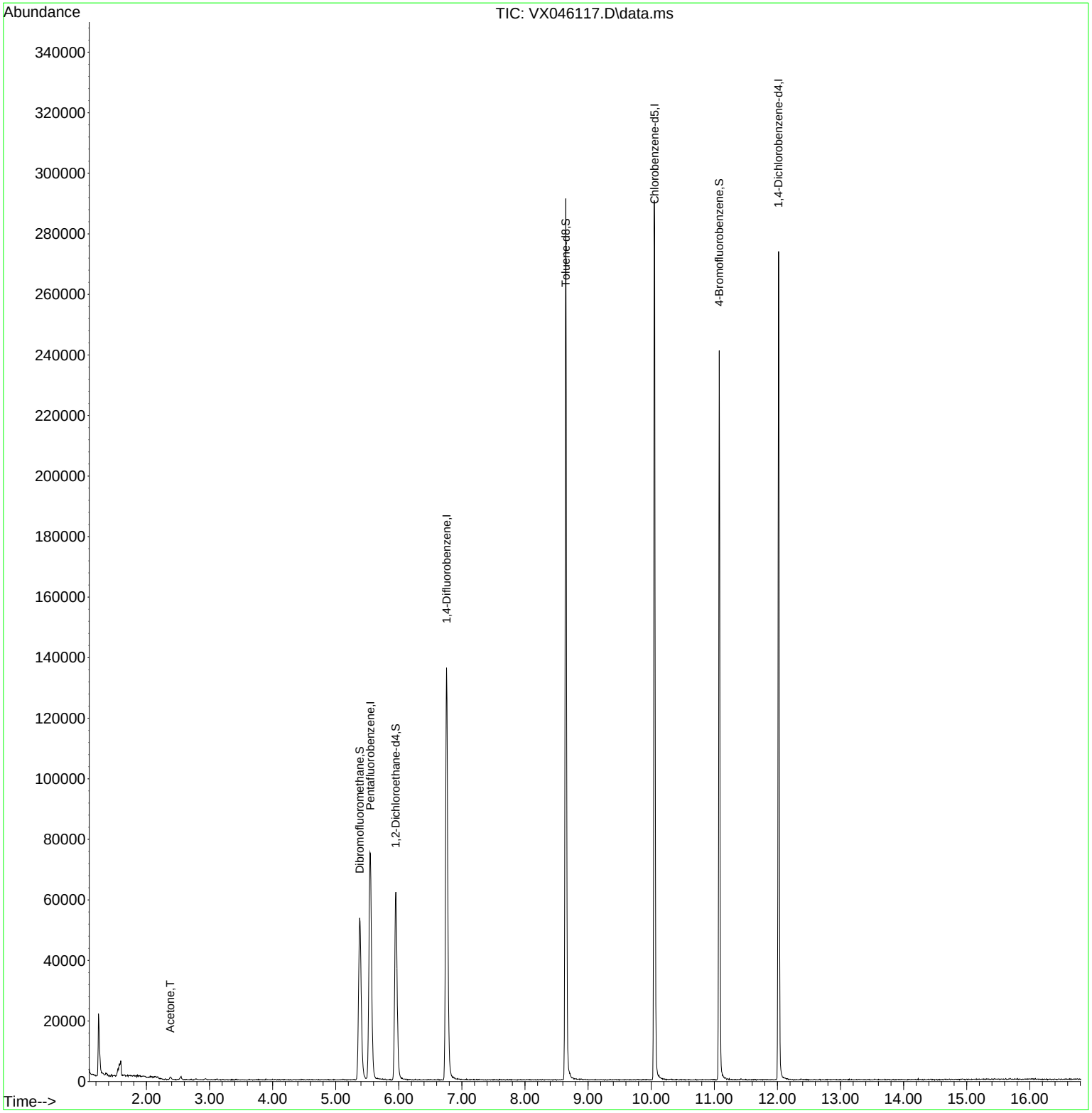
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 63315 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 129242 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.055 | 117 | 119976 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 51028 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 63886 | 54.123 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 108.240% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 47285 | 50.807 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.620% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 161468 | 50.127 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.260% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 62351 | 50.462 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 100.920% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.380 | 43 | 1042 | 2.202 | ug/l # | 89 |

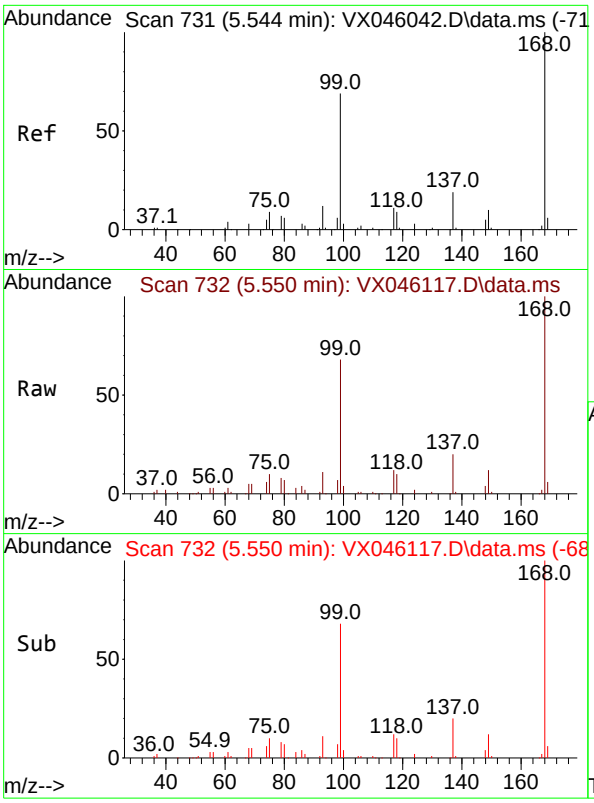
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046117.D
Acq On : 09 May 2025 16:01
Operator : JC/MD
Sample : Q1993-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Quant Time: May 09 23:16:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



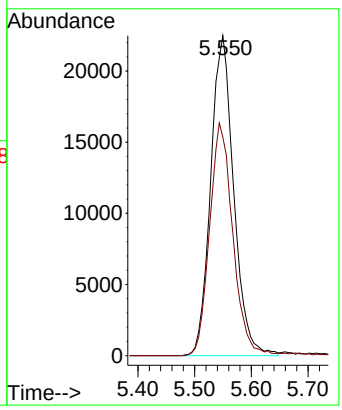


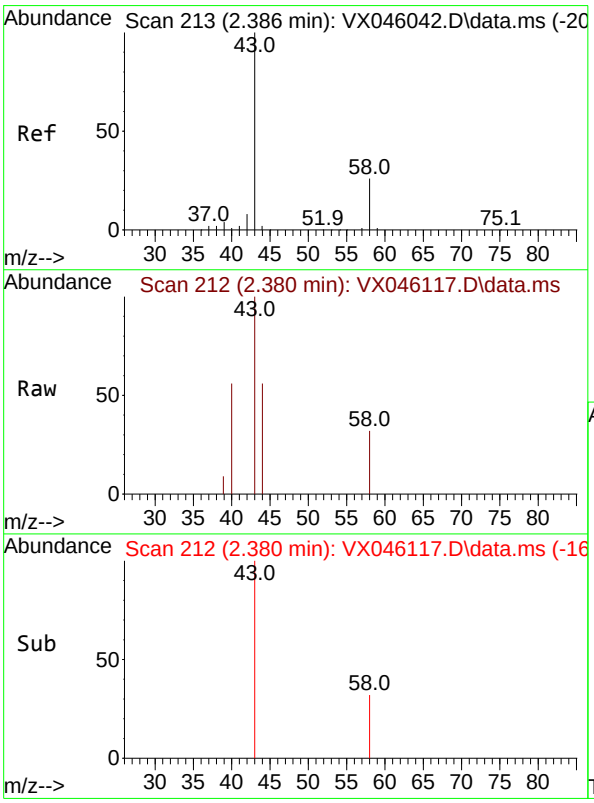

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Tgt Ion:168 Resp: 63315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 68.2 | 54.9 | 82.3 |

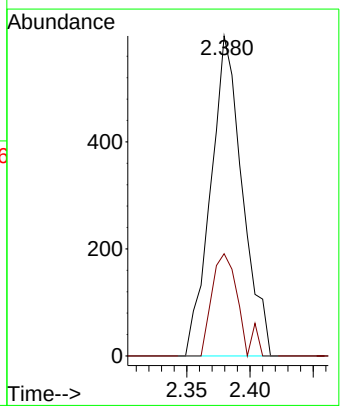


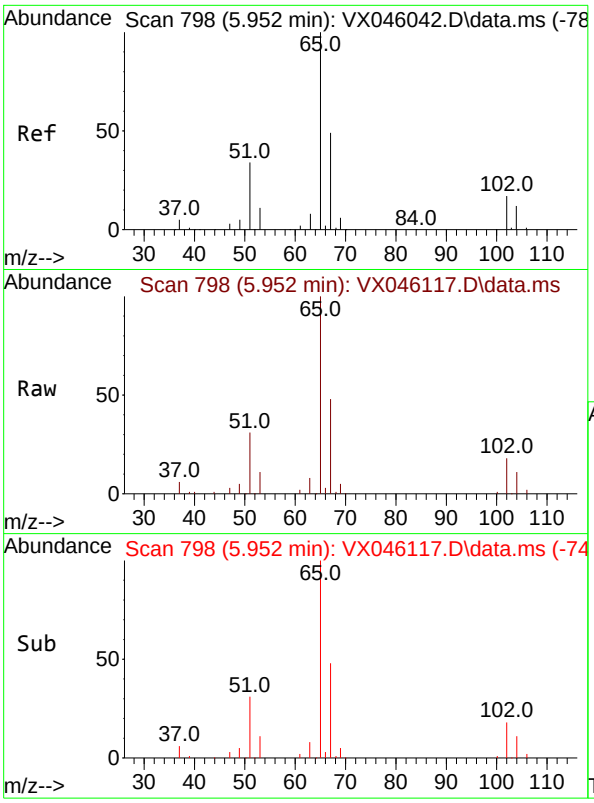




#16
Acetone
Concen: 2.202 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

Tgt Ion: 43 Resp: 1042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.9 | 21.2 | 31.8# |



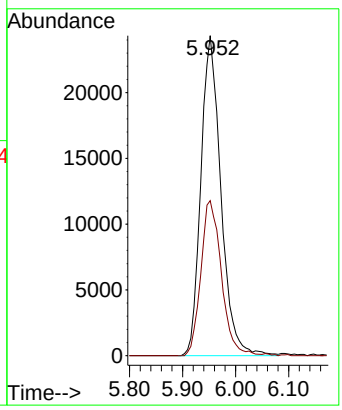


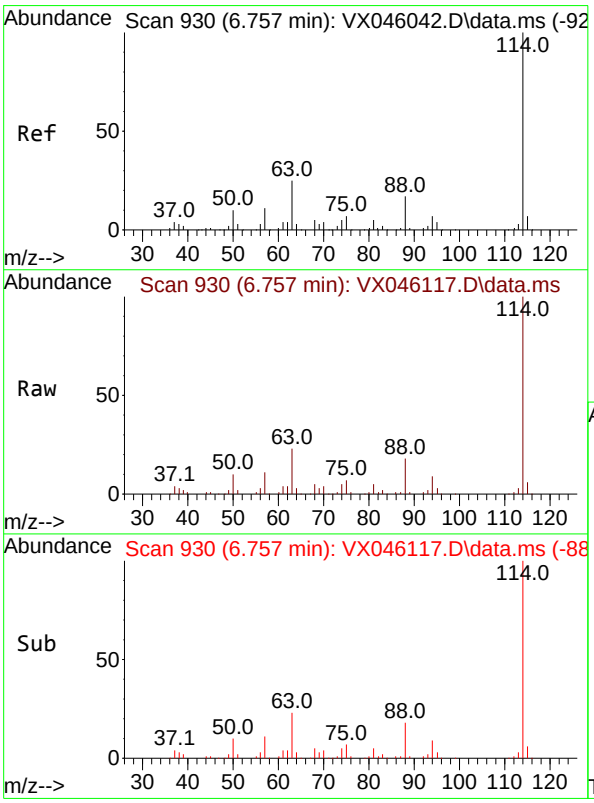

#33
1,2-Dichloroethane-d4
Concen: 54.123 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Tgt Ion: 65 Resp: 63886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.6 | 0.0 | 99.0 |

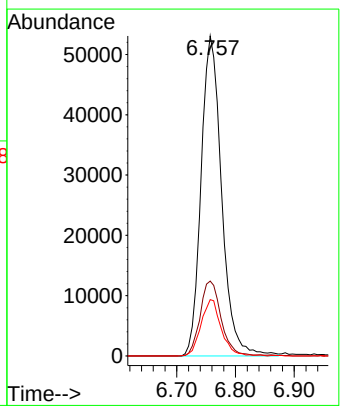


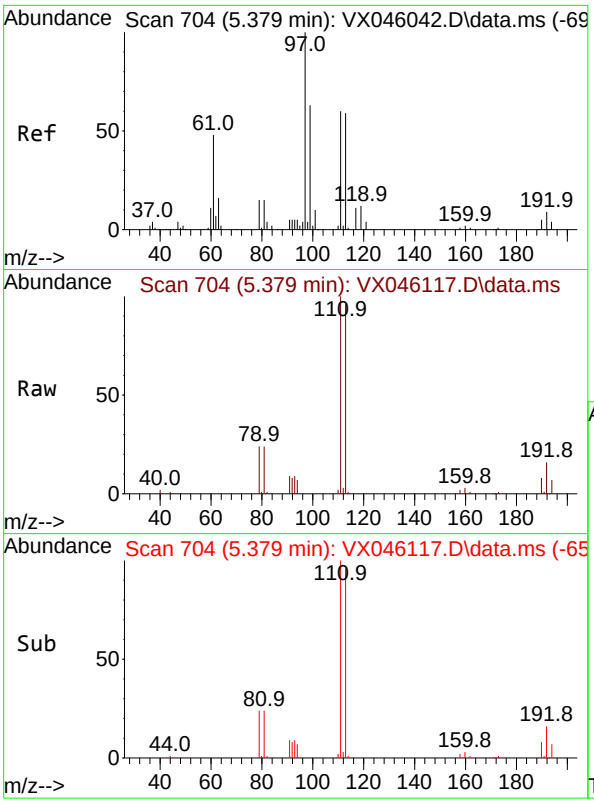




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

Tgt Ion:114 Resp: 129242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.4 | 0.0 | 49.2 |
| 88 | 17.6 | 0.0 | 33.6 |



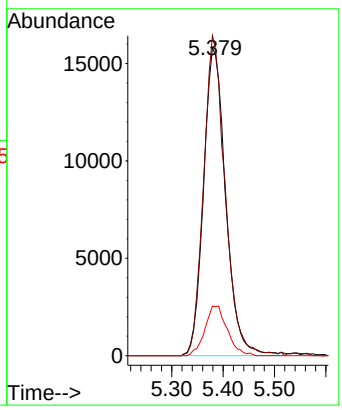


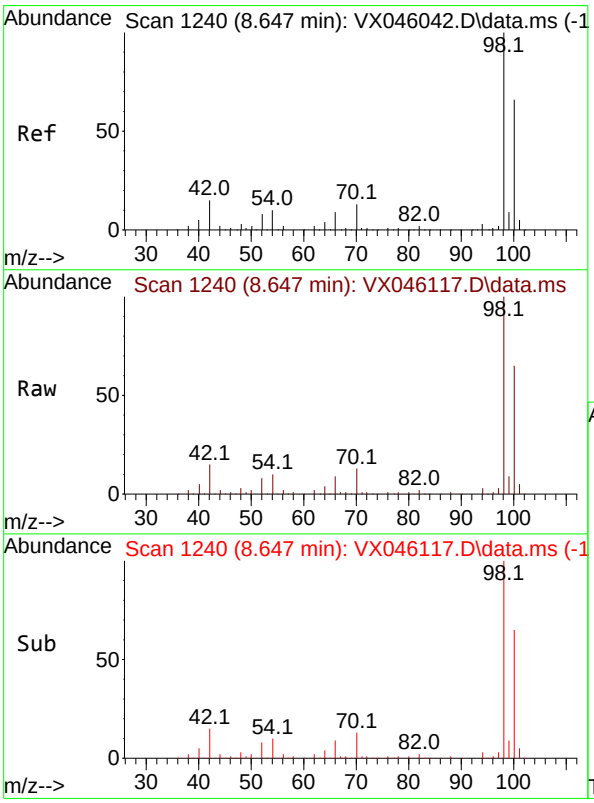

#35
Dibromofluoromethane
Concen: 50.807 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Tgt Ion:113 Resp: 47285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.5 | 83.1 | 124.7 |
| 192 | 16.3 | 13.3 | 19.9 |

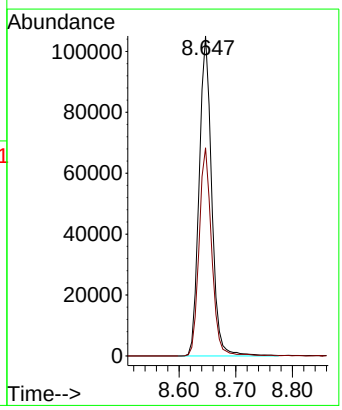


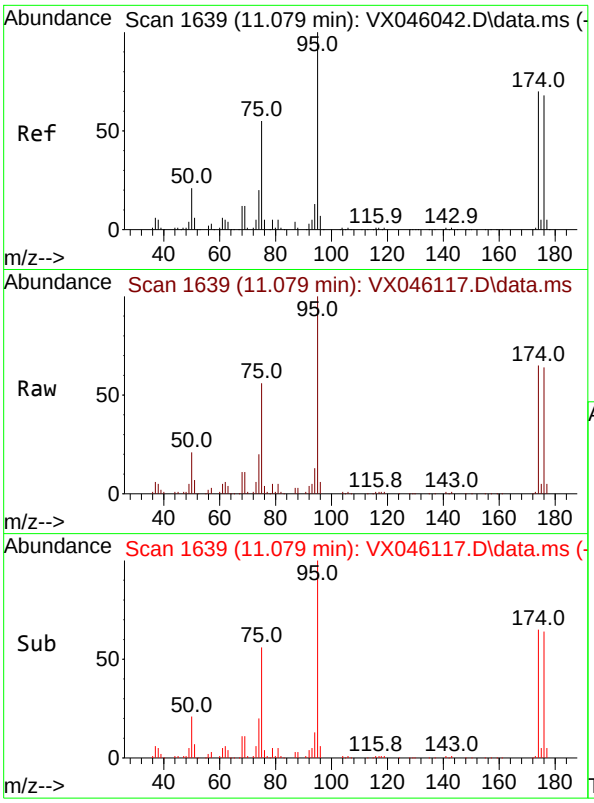




#50
Toluene-d8
Concen: 50.127 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

Tgt Ion: 98 Resp: 161468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 53.5 | 80.3 |



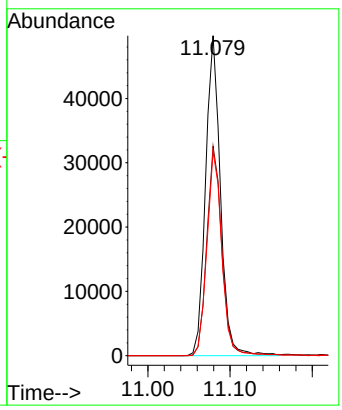


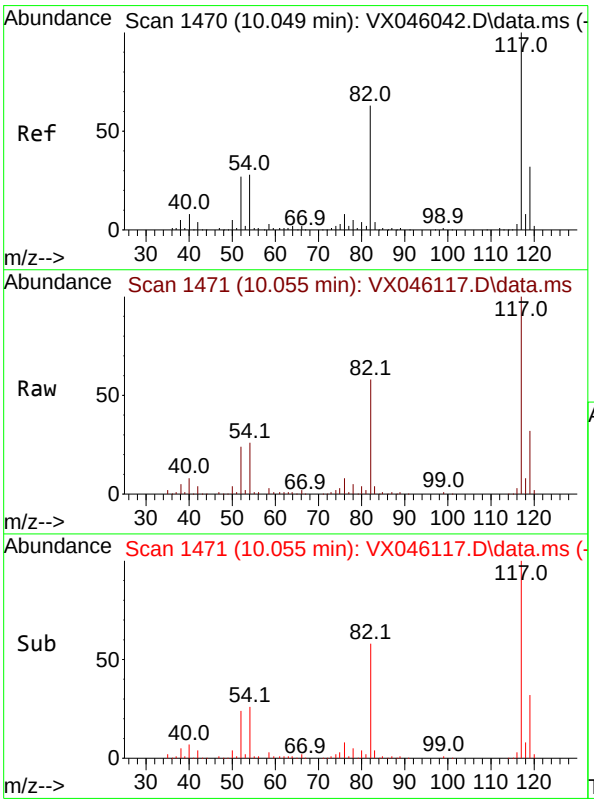

#62
4-Bromofluorobenzene
Concen: 50.462 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Tgt Ion: 95 Resp: 62351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.6 | 0.0 | 135.8 |
| 176 | 64.4 | 0.0 | 131.4 |

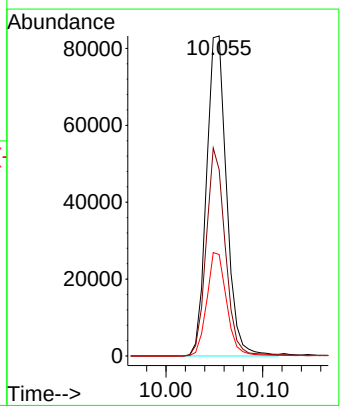


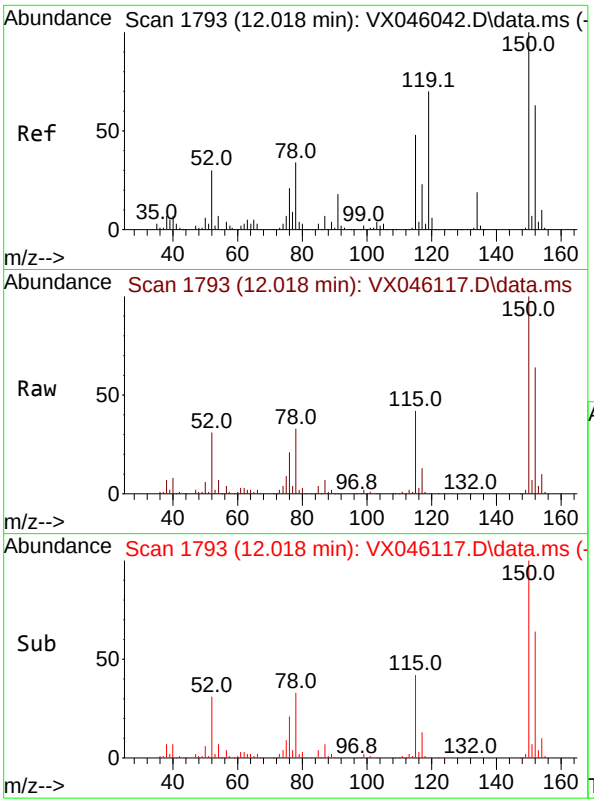




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

Tgt Ion:117 Resp: 119976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.2 | 50.6 | 76.0 |
| 119 | 31.7 | 25.8 | 38.6 |



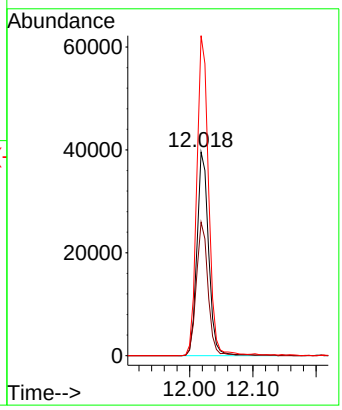



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046117.D
Acq: 09 May 2025 16:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Tgt Ion:152 Resp: 51028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.1 | 46.9 | 140.7 |
| 150 | 158.0 | 0.0 | 351.0 |



Sample Results: **VX046117.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046117.D
Acq On : 09 May 2025 16:01
Operator : JC/MD
Sample : Q1993-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046117.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.240 | 21 | 25 | 36 | rBV | 20377 | 31920 | 7.05% | 1.318% |
| 2 | 1.593 | 77 | 83 | 87 | rVB4 | 4973 | 9811 | 2.17% | 0.405% |
| 3 | 5.379 | 693 | 704 | 720 | rBV2 | 53523 | 159165 | 35.17% | 6.574% |
| 4 | 5.544 | 722 | 731 | 748 | rVB2 | 74732 | 214922 | 47.48% | 8.877% |
| 5 | 5.952 | 789 | 798 | 812 | rBV | 62060 | 166613 | 36.81% | 6.881% |
| 6 | 6.757 | 921 | 930 | 946 | rBV | 136187 | 328430 | 72.56% | 13.565% |
| 7 | 8.647 | 1233 | 1240 | 1256 | rBV | 291033 | 452611 | 100.00% | 18.694% |
| 8 | 10.049 | 1465 | 1470 | 1481 | rBV | 290436 | 408598 | 90.28% | 16.876% |
| 9 | 11.079 | 1634 | 1639 | 1647 | rBV | 240733 | 300884 | 66.48% | 12.427% |
| 10 | 12.018 | 1788 | 1793 | 1805 | rBV | 273558 | 348250 | 76.94% | 14.383% |

Sum of corrected areas: 2421204

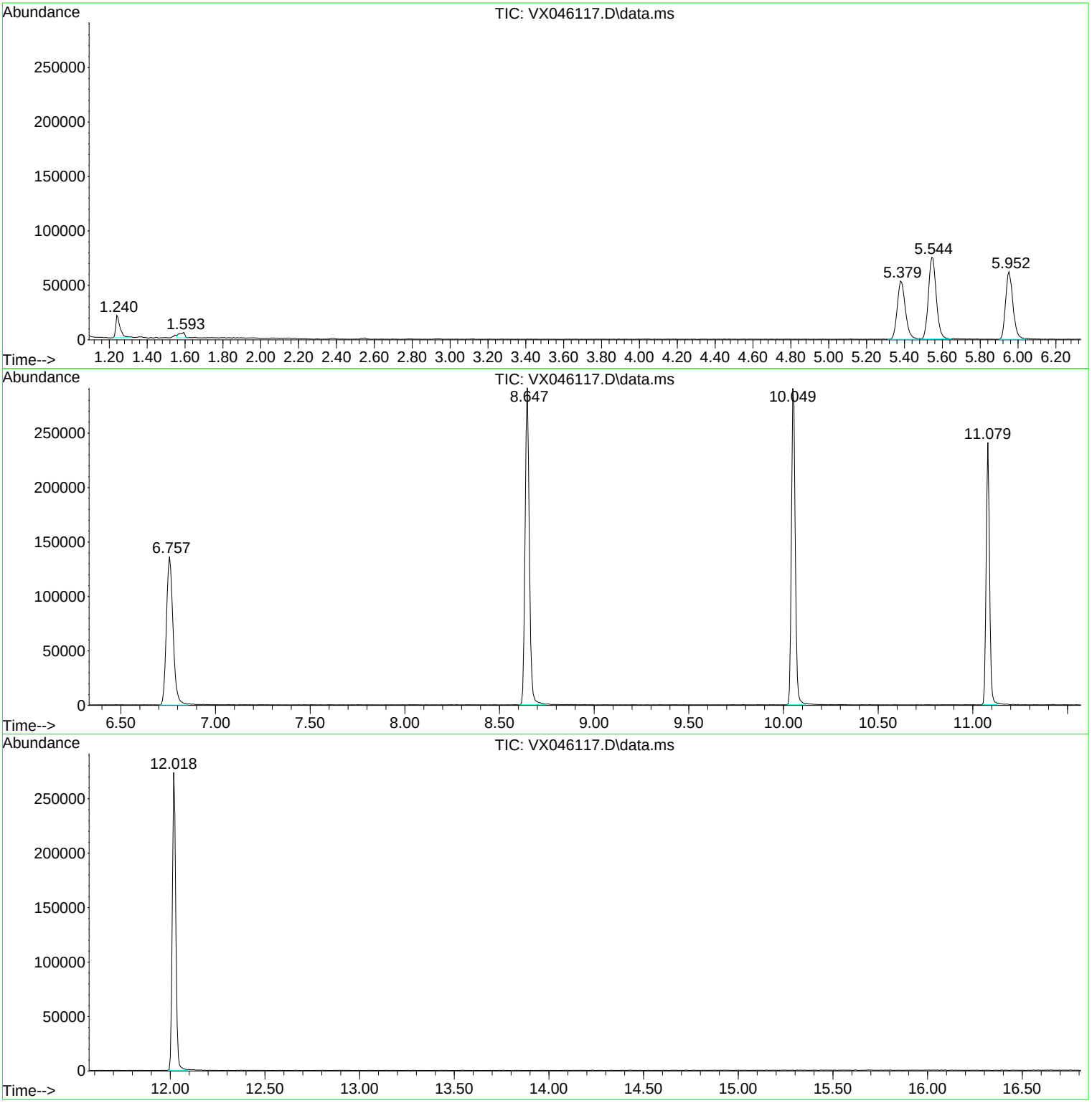
Sample Results: **VX046117.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046117.D
Acq On : 09 May 2025 16:01
Operator : JC/MD
Sample : Q1993-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046117.D
Acq On : 09 May 2025 16:01
Operator : JC/MD
Sample : Q1993-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

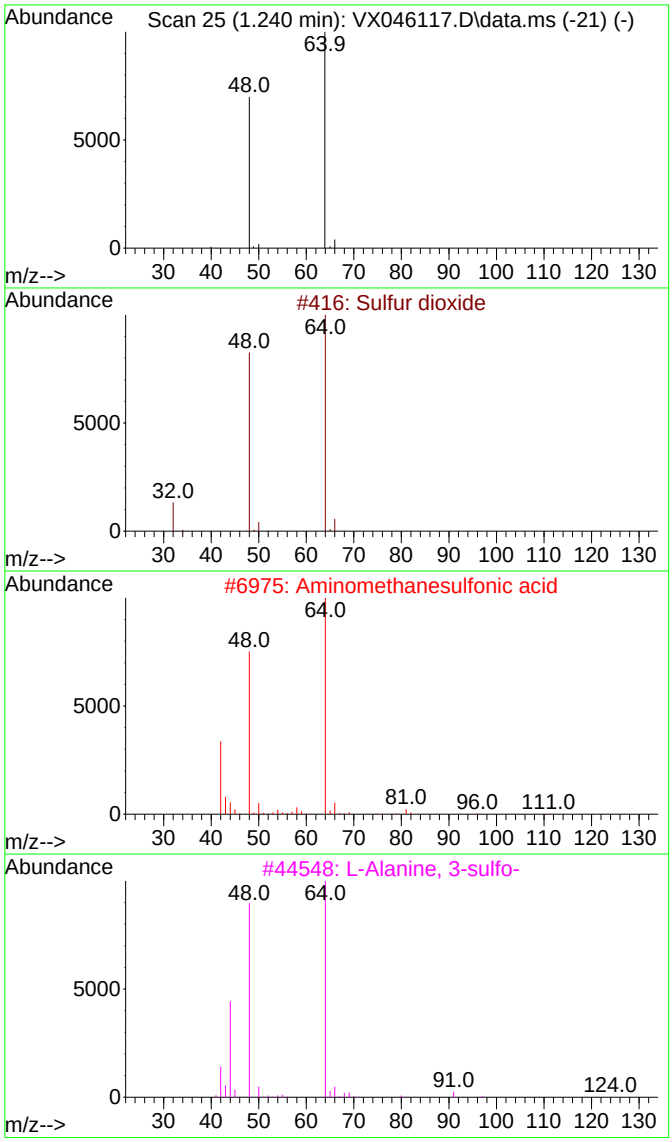
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

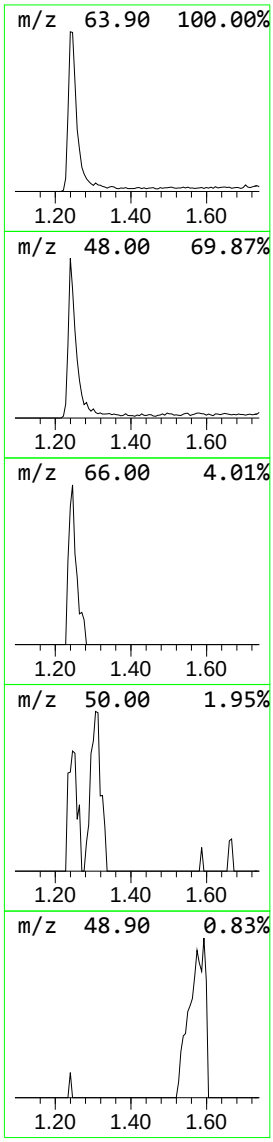
**********

Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.240 | 7.43 ug/l | 31920 | Pentafluorobenzene | 5.550 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 83 |
| 2 | Aminomethanesulfonic acid | 111 | CH5NO3S | 013881-91-9 | 64 |
| 3 | L-Alanine, 3-sulfo- | 169 | C3H7NO5S | 000498-40-8 | 9 |
| 4 | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 4 |
| 5 | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 3 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046117.D
Acq On : 09 May 2025 16:01
Operator : JC/MD
Sample : Q1993-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-4-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Sulfur dioxide | 1.240 | 7.4 | ug/l | 31920 | 1 | 5.550 | 214922 | 50.0 |

Raw Data: **VX046156.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | EB-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046156.D | 1 | | 05/13/25 11:16 | VX051325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046156.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | EB-20250508 | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046156.D | 1 | | 05/13/25 11:16 | VX051325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.5 | | 74 - 125 | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.7 | | 75 - 124 | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.2 | | 86 - 113 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.5 | | 77 - 121 | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 65600 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 132000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 127000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 54700 | 12.018 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX046156.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046156.D
Acq On : 13 May 2025 11:16
Operator : JC/MD
Sample : Q1993-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Quant Time: May 14 01:35:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 65629 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 132457 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 126910 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 54742 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 67850 | 55.454 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 110.900% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 49334 | 51.722 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.440% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 168956 | 51.178 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 102.360% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 65184 | 51.474 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.940% | | | |

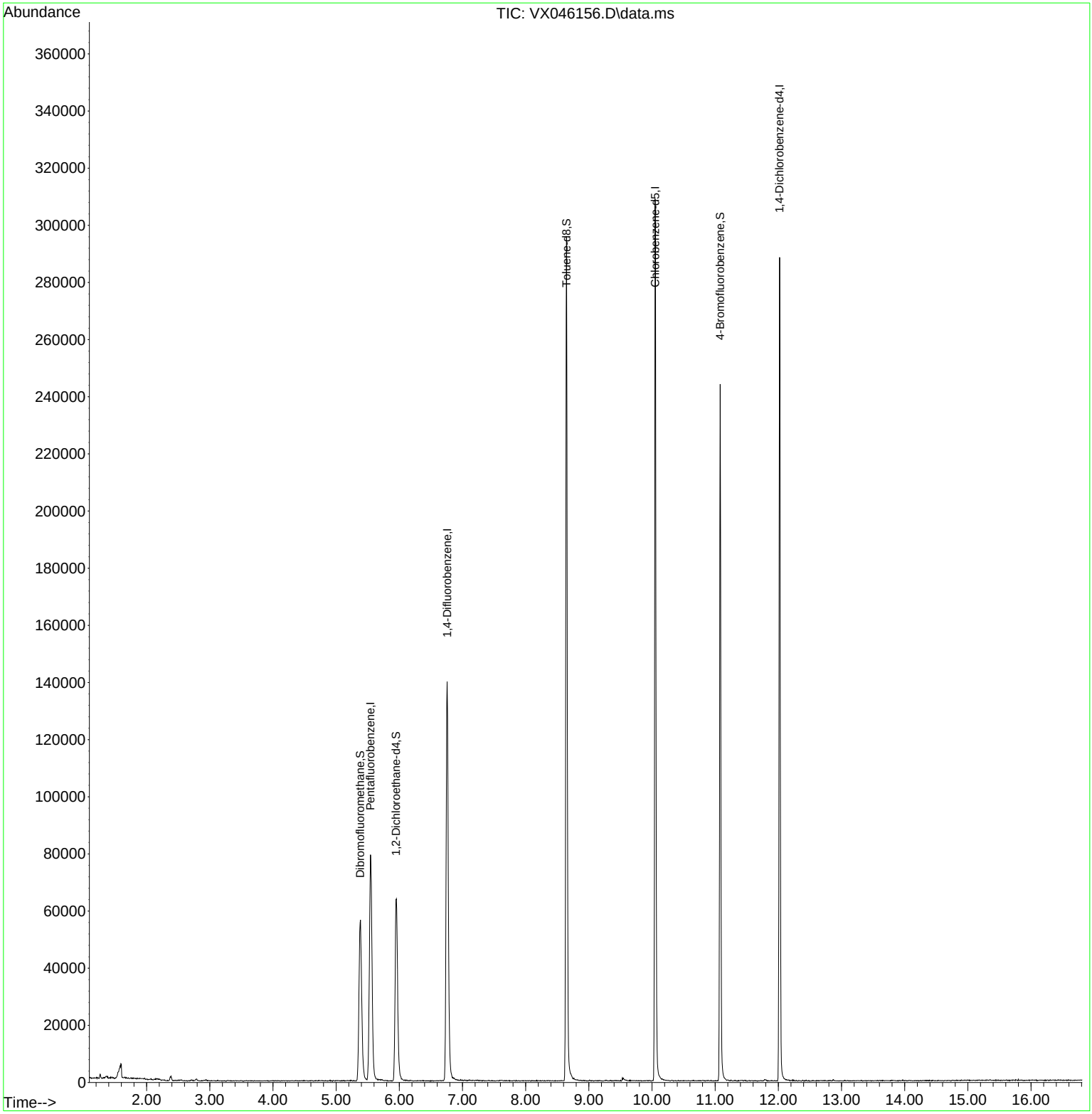
Target Compounds Qvalue

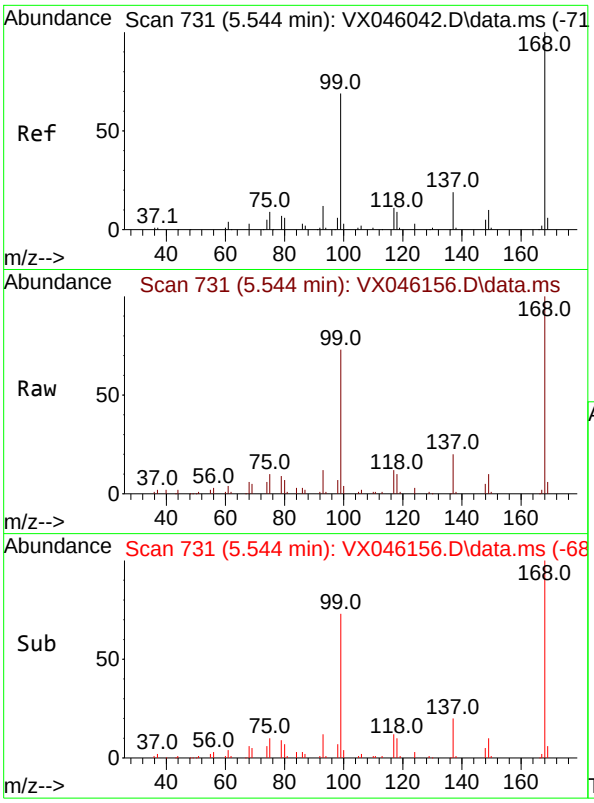
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046156.D
Acq On : 13 May 2025 11:16
Operator : JC/MD
Sample : Q1993-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Quant Time: May 14 01:35:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



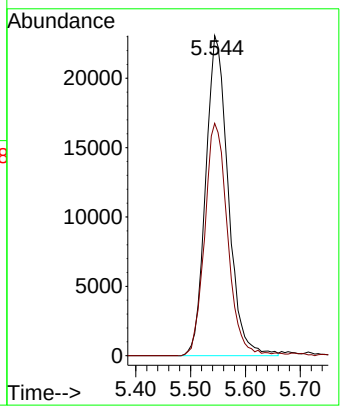


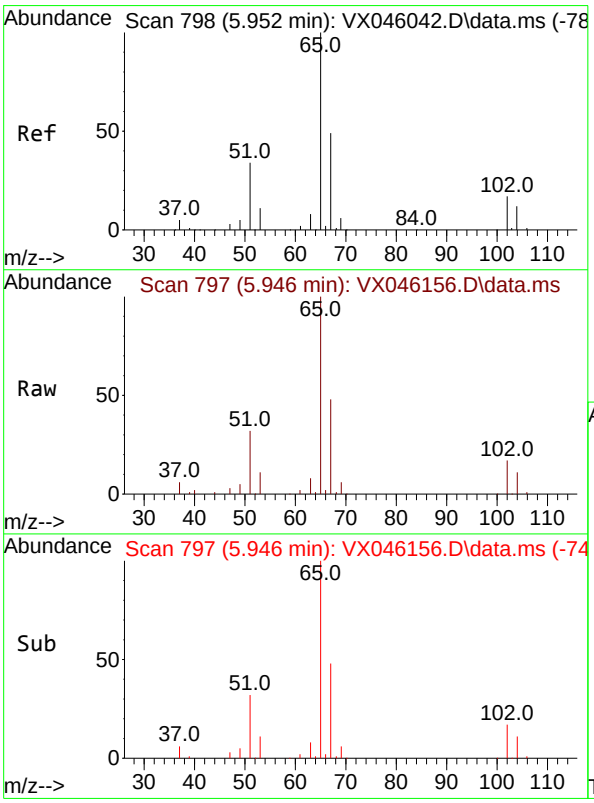

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046156.D
Acq: 13 May 2025 11:16

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Tgt Ion:168 Resp: 65629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.6 | 54.9 | 82.3 |

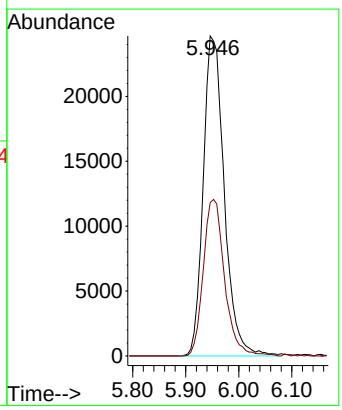


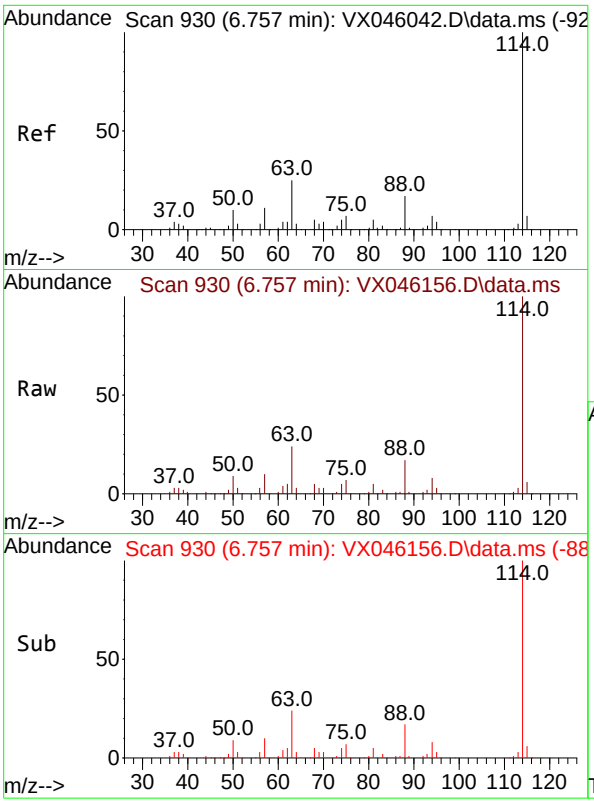




#33
1,2-Dichloroethane-d4
Concen: 55.454 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX046156.D
Acq: 13 May 2025 11:16

Tgt Ion: 65 Resp: 67850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.6 | 0.0 | 99.0 |



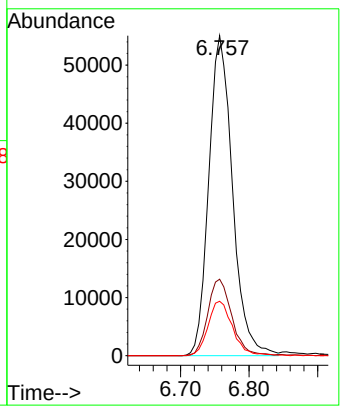


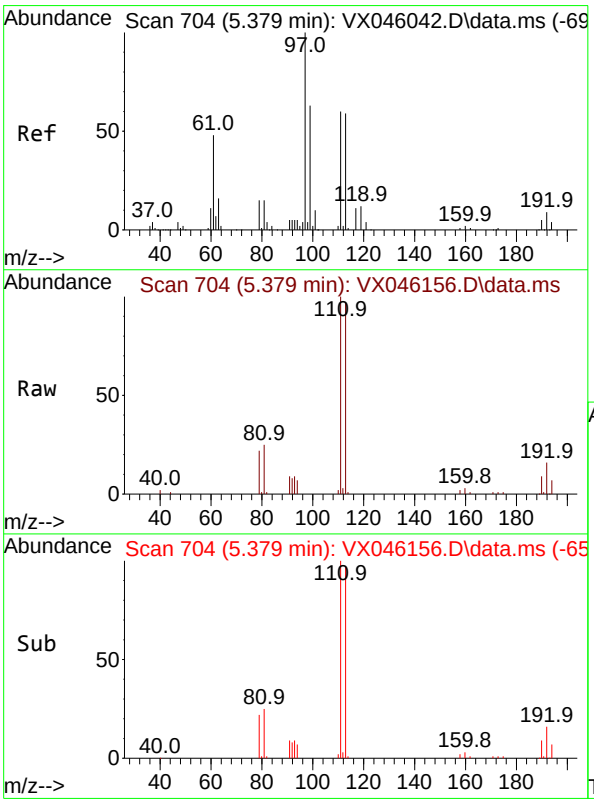

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX046156.D
Acq: 13 May 2025 11:16

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Tgt Ion:114 Resp: 132457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.9 | 0.0 | 49.2 |
| 88 | 17.0 | 0.0 | 33.6 |

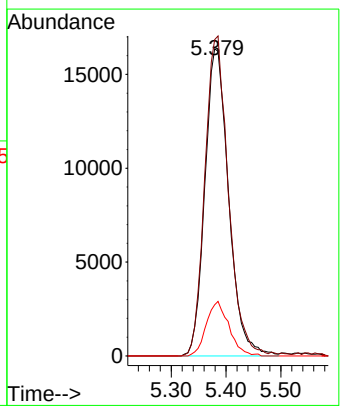


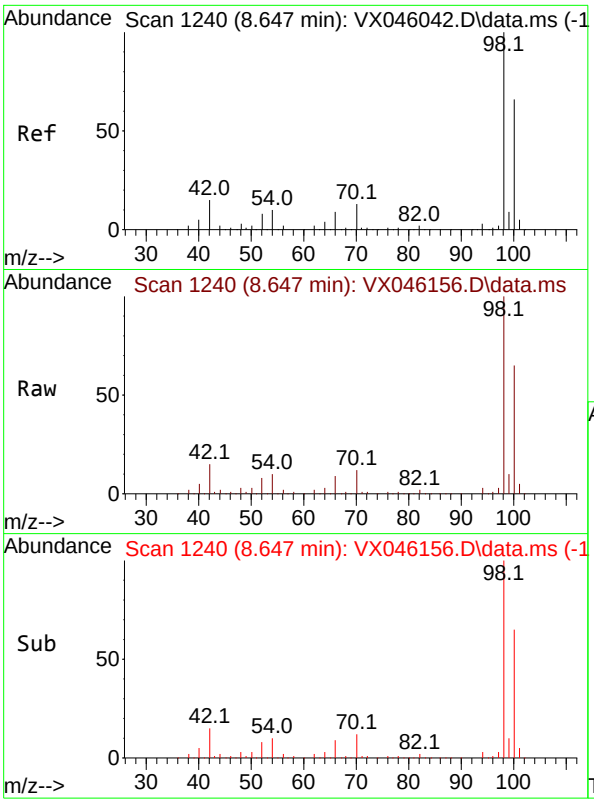




#35
Dibromofluoromethane
Concen: 51.722 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX046156.D
Acq: 13 May 2025 11:16

Tgt Ion:113 Resp: 49334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 83.1 | 124.7 |
| 192 | 17.0 | 13.3 | 19.9 |



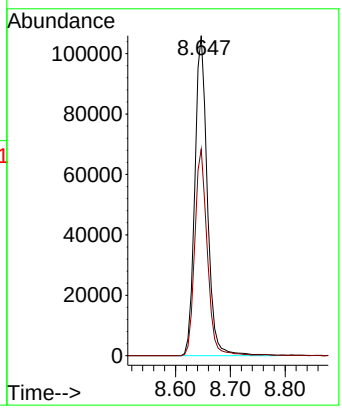


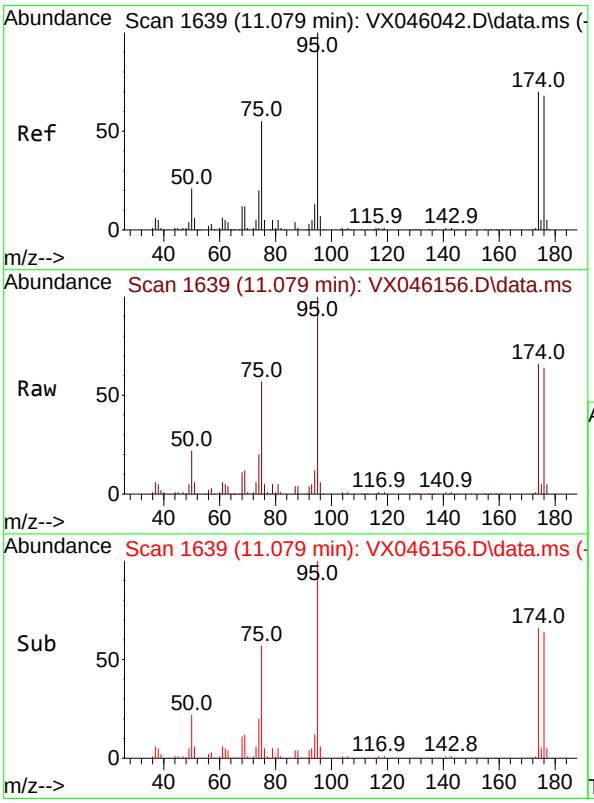

#50
Toluene-d8
Concen: 51.178 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046156.D
Acq: 13 May 2025 11:16

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Tgt Ion: 98 Resp: 168956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 53.5 | 80.3 |

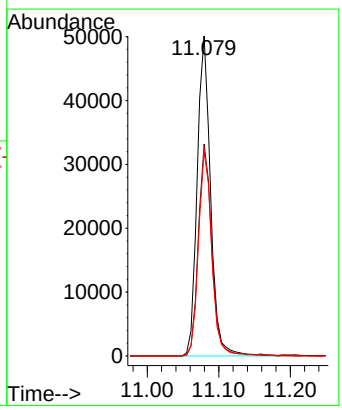


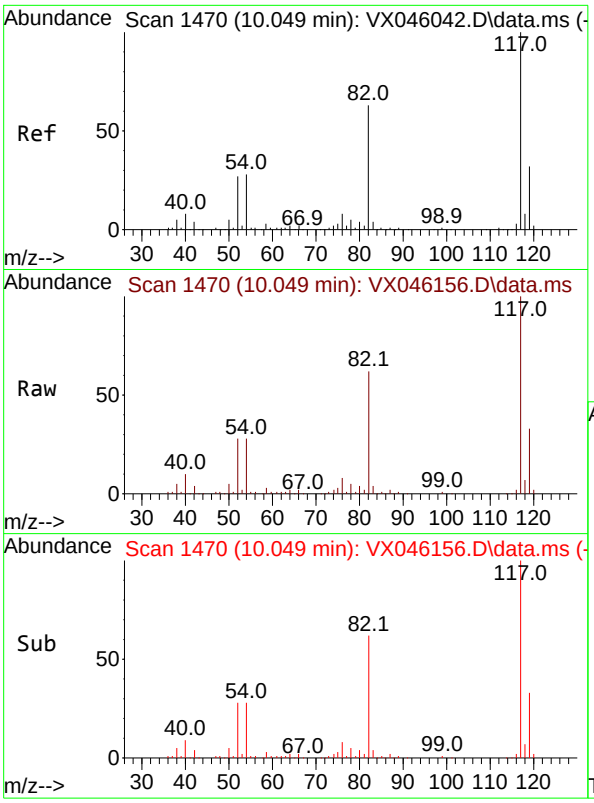




#62
4-Bromofluorobenzene
Concen: 51.474 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046156.D
Acq: 13 May 2025 11:16

Tgt Ion: 95 Resp: 65184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.9 | 0.0 | 135.8 |
| 176 | 63.2 | 0.0 | 131.4 |



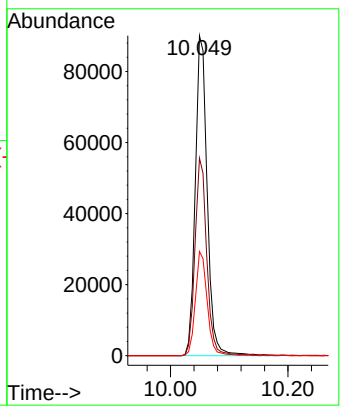


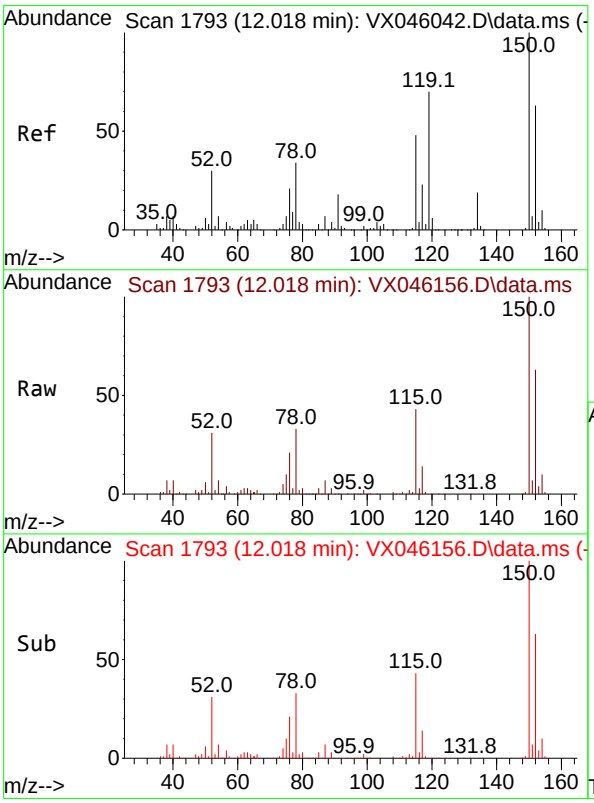

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046156.D
Acq: 13 May 2025 11:16

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Tgt Ion:117 Resp: 126910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.7 | 50.6 | 76.0 |
| 119 | 32.5 | 25.8 | 38.6 |

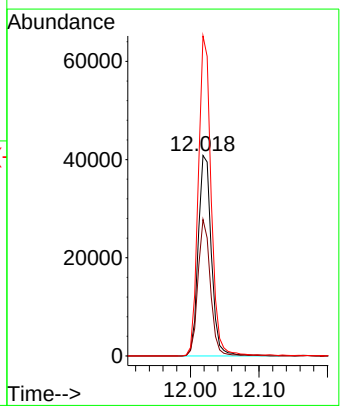



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046156.D
Acq: 13 May 2025 11:16

Tgt Ion:152 Resp: 54742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.4 | 46.9 | 140.7 |
| 150 | 155.2 | 0.0 | 351.0 |



Sample Results: **VX046156.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046156.D
Acq On : 13 May 2025 11:16
Operator : JC/MD
Sample : Q1993-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046156.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.593 | 76 | 83 | 86 | rVB5 | 4798 | 10707 | 2.27% | 0.428% |
| 2 | 5.385 | 694 | 705 | 719 | rBV2 | 56350 | 168567 | 35.73% | 6.738% |
| 3 | 5.544 | 722 | 731 | 746 | rVV2 | 78799 | 221907 | 47.04% | 8.870% |
| 4 | 5.952 | 787 | 798 | 811 | rBV | 63731 | 175976 | 37.30% | 7.034% |
| 5 | 6.757 | 920 | 930 | 944 | rBV | 139654 | 338976 | 71.85% | 13.549% |
| 6 | 8.647 | 1234 | 1240 | 1258 | rBV | 295423 | 471771 | 100.00% | 18.857% |
| 7 | 10.049 | 1465 | 1470 | 1487 | rBV | 308602 | 429378 | 91.01% | 17.162% |
| 8 | 11.079 | 1634 | 1639 | 1656 | rBV | 243816 | 316854 | 67.16% | 12.665% |
| 9 | 12.018 | 1788 | 1793 | 1805 | rBV | 288293 | 367724 | 77.95% | 14.698% |

Sum of corrected areas: 2501860

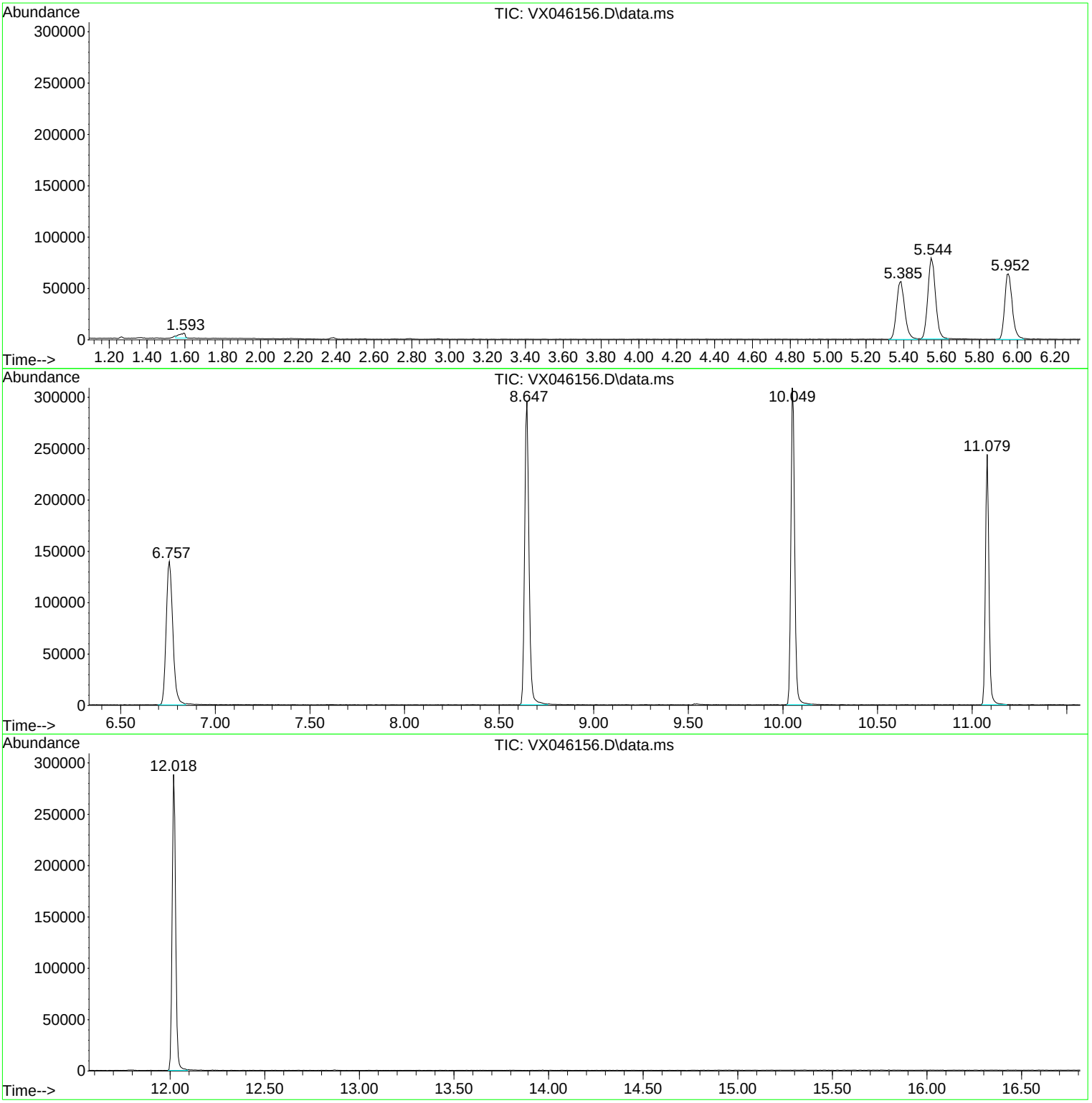
Sample Results: **VX046156.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046156.D
Acq On : 13 May 2025 11:16
Operator : JC/MD
Sample : Q1993-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VX046156.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046156.D
Acq On : 13 May 2025 11:16
Operator : JC/MD
Sample : Q1993-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046156.D
Acq On : 13 May 2025 11:16
Operator : JC/MD
Sample : Q1993-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
EB-20250508

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | TB | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-09 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046157.D | 1 | | 05/13/25 11:39 | VX051325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046157.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | TB | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-09 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046157.D | 1 | | 05/13/25 11:39 | VX051325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.3 | | 74 - 125 | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.5 | | 75 - 124 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.3 | | 86 - 113 | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.8 | | 77 - 121 | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 66200 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 132000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 126000 | 10.055 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 55700 | 12.018 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046157.D
Acq On : 13 May 2025 11:39
Operator : JC/MD
Sample : Q1993-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Quant Time: May 14 01:35:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 66175 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 131830 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.055 | 117 | 126040 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 55709 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 66970 | 54.283 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 108.560% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 49843 | 52.504 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 105.000% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 168424 | 51.260 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 102.520% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 65265 | 51.783 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 103.560% | | | |

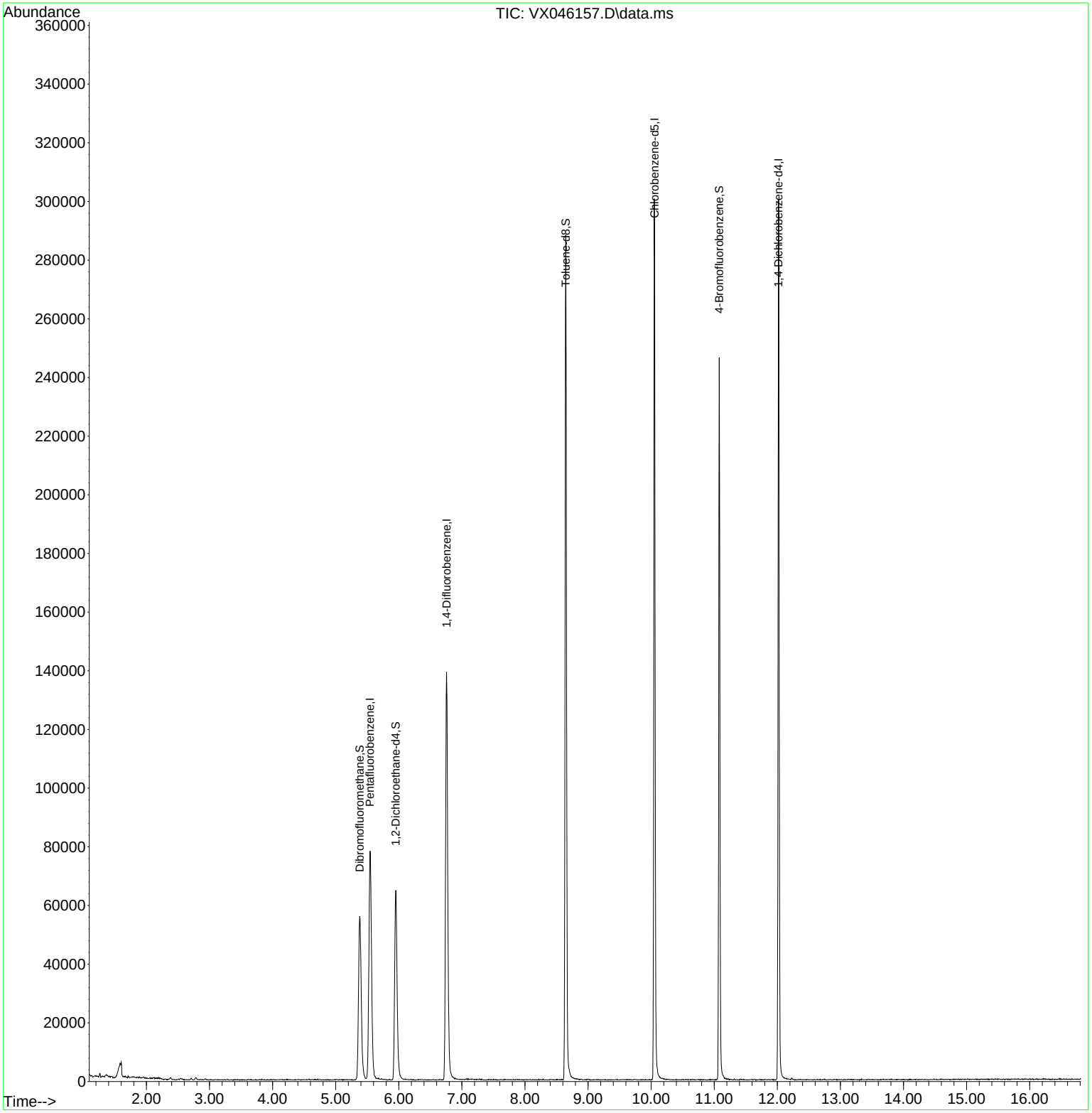
Target Compounds Qvalue

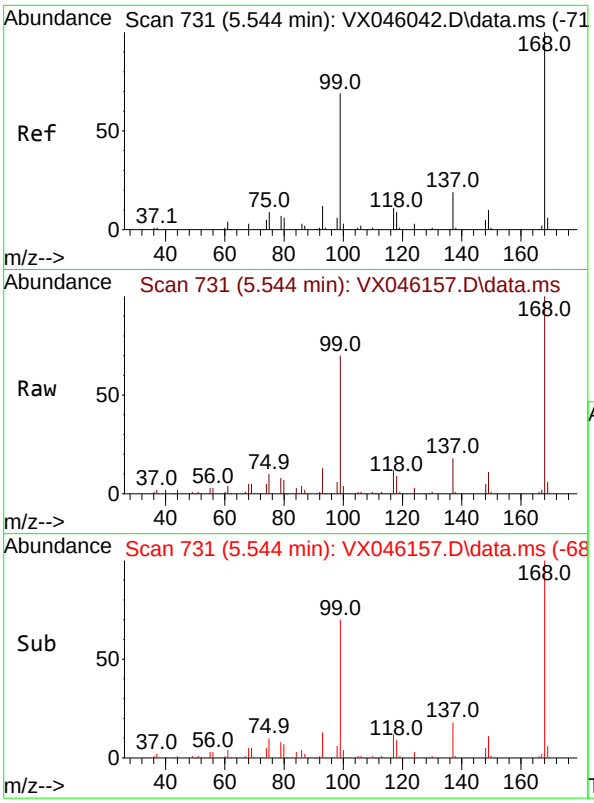
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046157.D
Acq On : 13 May 2025 11:39
Operator : JC/MD
Sample : Q1993-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Quant Time: May 14 01:35:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



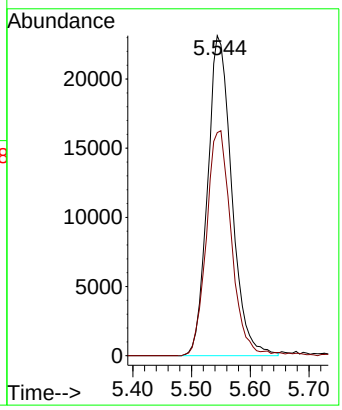


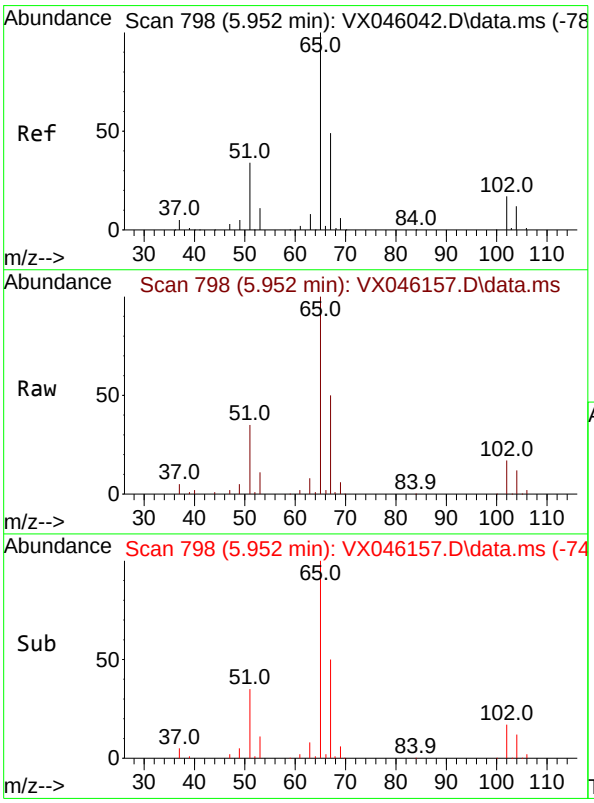

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046157.D
Acq: 13 May 2025 11:39

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Tgt Ion:168 Resp: 66175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 69.7 | 54.9 | 82.3 |

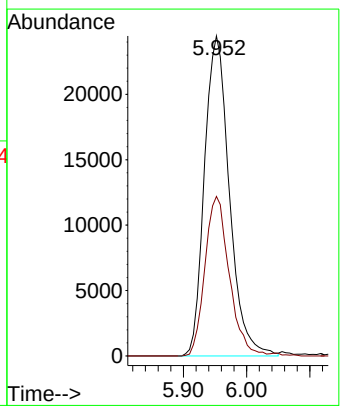


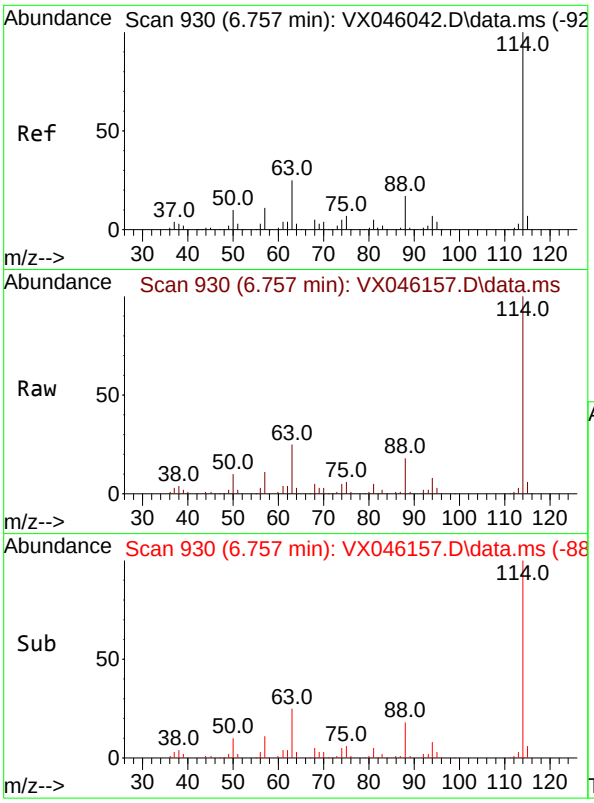




#33
1,2-Dichloroethane-d4
Concen: 54.283 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX046157.D
Acq: 13 May 2025 11:39

Tgt Ion: 65 Resp: 66970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.7 | 0.0 | 99.0 |



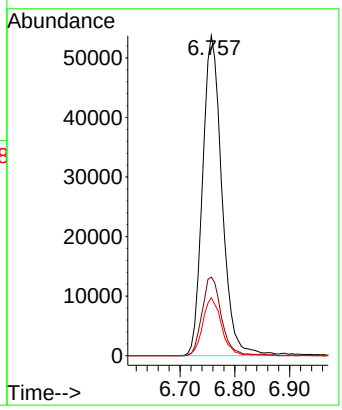


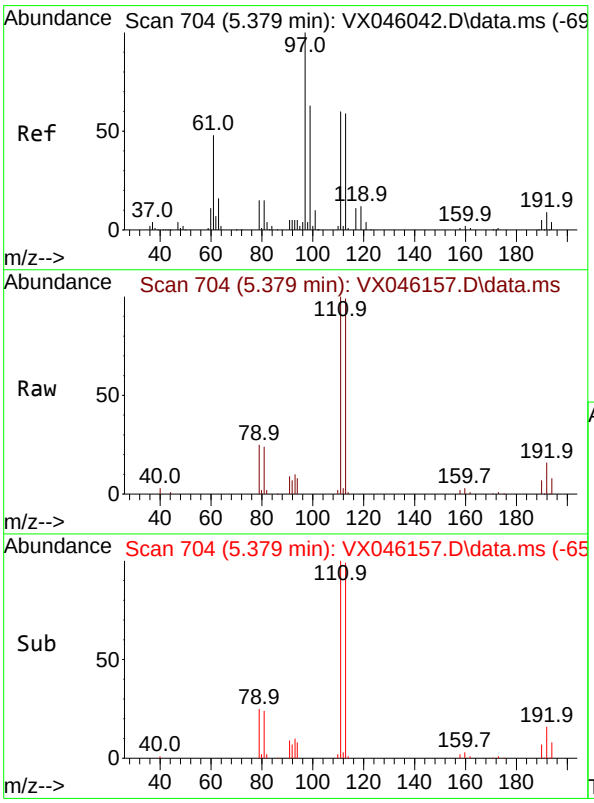

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX046157.D
Acq: 13 May 2025 11:39

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Tgt Ion:114 Resp: 131830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.6 | 0.0 | 49.2 |
| 88 | 18.1 | 0.0 | 33.6 |

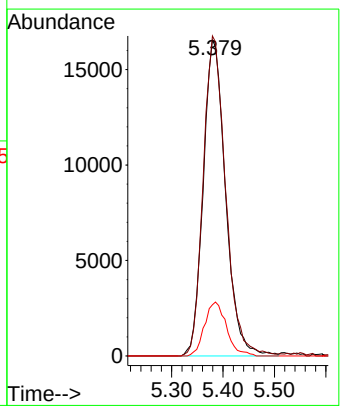


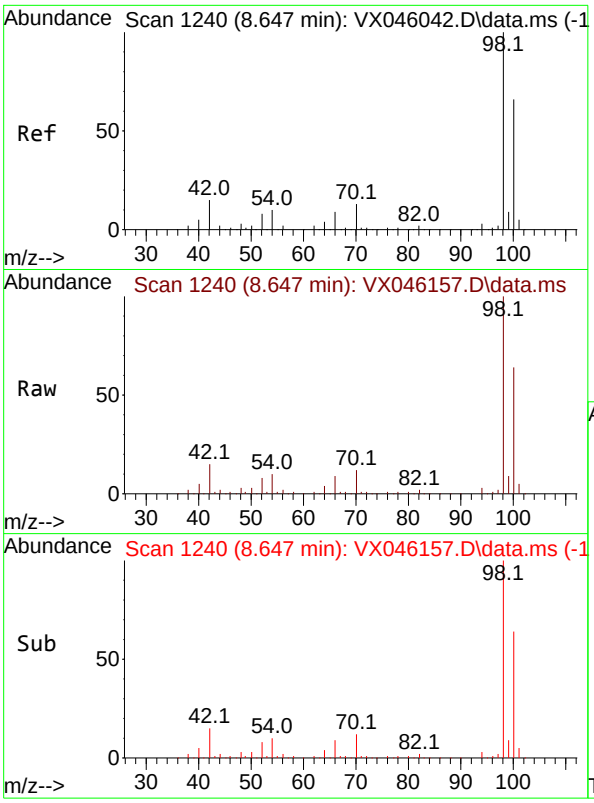




#35
Dibromofluoromethane
Concen: 52.504 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX046157.D
Acq: 13 May 2025 11:39

Tgt Ion:113 Resp: 49843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 83.1 | 124.7 |
| 192 | 16.8 | 13.3 | 19.9 |



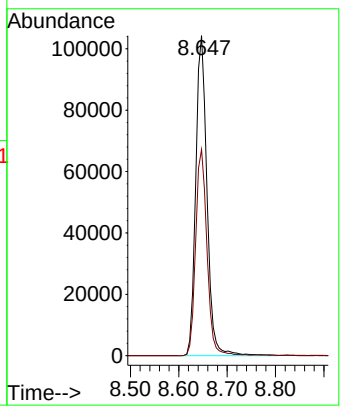


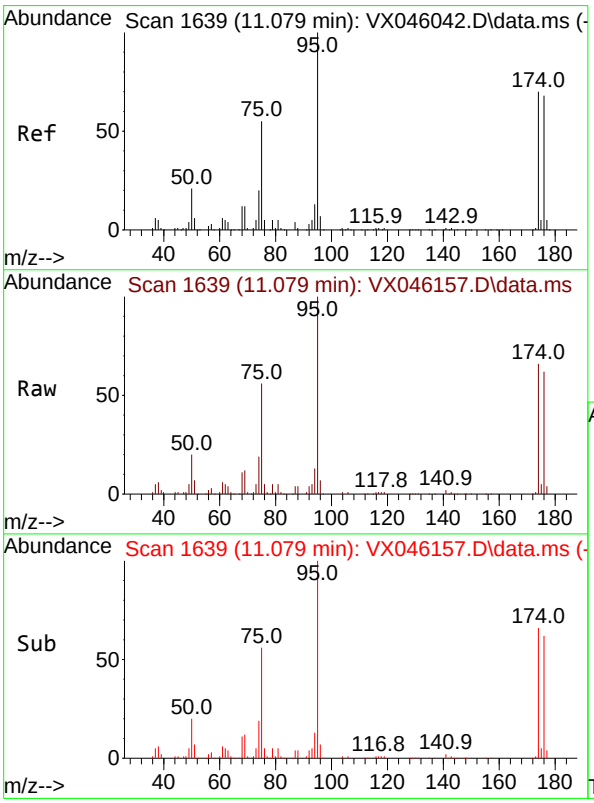

#50
Toluene-d8
Concen: 51.260 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046157.D
Acq: 13 May 2025 11:39

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Tgt Ion: 98 Resp: 168424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 53.5 | 80.3 |

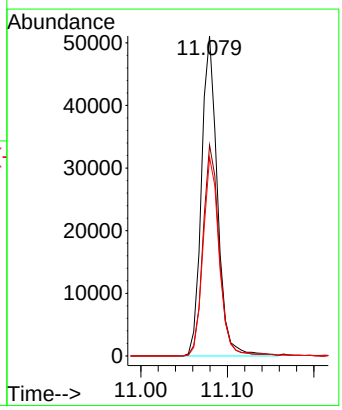


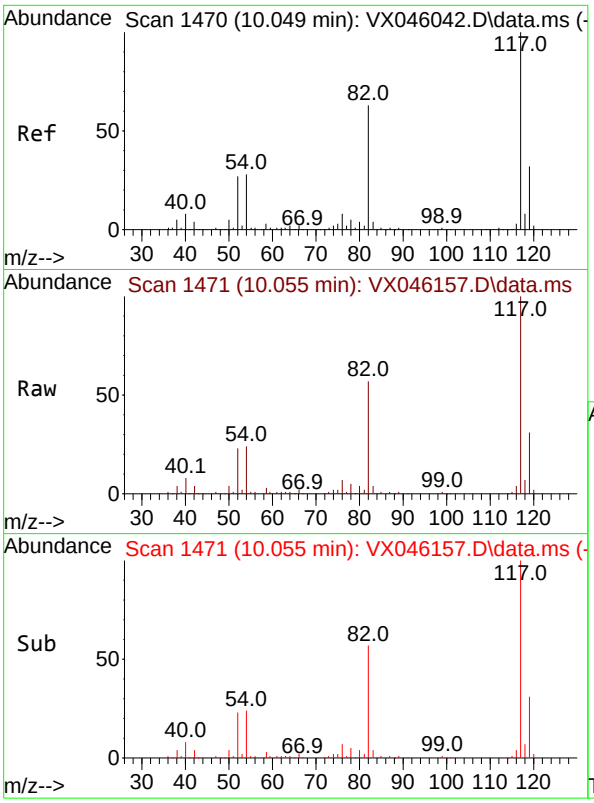




#62
4-Bromofluorobenzene
Concen: 51.783 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046157.D
Acq: 13 May 2025 11:39

Tgt Ion: 95 Resp: 65265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.2 | 0.0 | 135.8 |
| 176 | 62.8 | 0.0 | 131.4 |



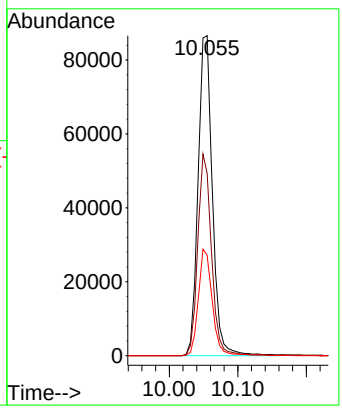


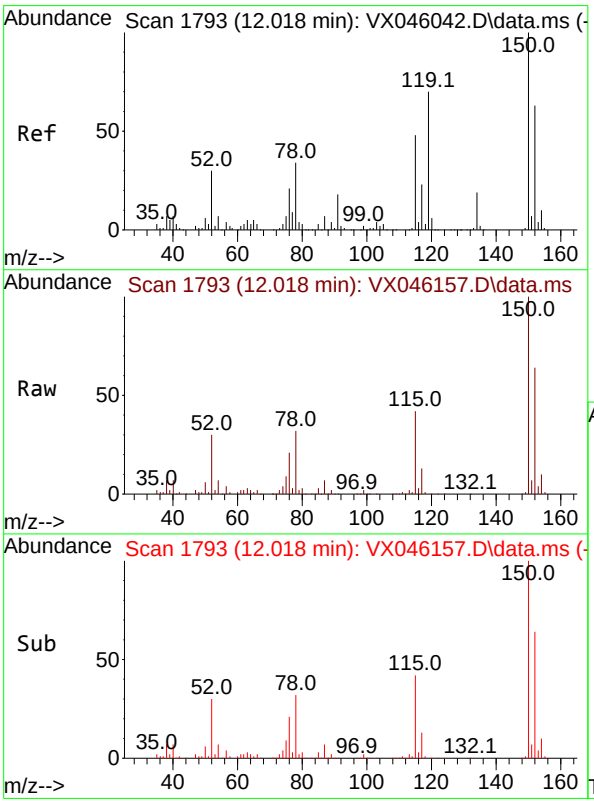

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046157.D
Acq: 13 May 2025 11:39

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Tgt Ion:117 Resp: 126040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.0 | 50.6 | 76.0 |
| 119 | 31.3 | 25.8 | 38.6 |

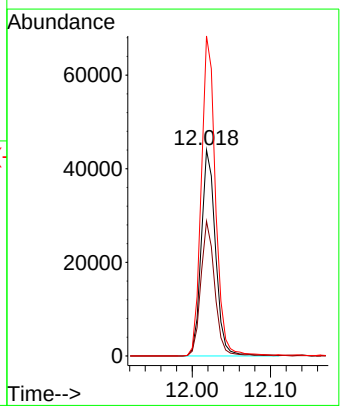



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046157.D
Acq: 13 May 2025 11:39

Tgt Ion:152 Resp: 55709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.8 | 46.9 | 140.7 |
| 150 | 154.5 | 0.0 | 351.0 |



Sample Results: **VX046157.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046157.D
Acq On : 13 May 2025 11:39
Operator : JC/MD
Sample : Q1993-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046157.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.581 | 70 | 81 | 83 | rBV4 | 4749 | 12824 | 2.74% | 0.513% |
| 2 | 5.379 | 691 | 704 | 719 | rBV3 | 55783 | 167356 | 35.70% | 6.697% |
| 3 | 5.544 | 721 | 731 | 747 | rVB2 | 77617 | 222580 | 47.49% | 8.906% |
| 4 | 5.952 | 787 | 798 | 820 | rBV | 64675 | 175058 | 37.35% | 7.005% |
| 5 | 6.757 | 921 | 930 | 950 | rBV | 138970 | 339162 | 72.36% | 13.571% |
| 6 | 8.647 | 1233 | 1240 | 1253 | rBV | 288126 | 468723 | 100.00% | 18.755% |
| 7 | 10.049 | 1465 | 1470 | 1489 | rBV | 300232 | 424342 | 90.53% | 16.980% |
| 8 | 11.079 | 1634 | 1639 | 1652 | rBV | 246055 | 316682 | 67.56% | 12.672% |
| 9 | 12.018 | 1788 | 1793 | 1807 | rBV | 300013 | 372408 | 79.45% | 14.901% |

Sum of corrected areas: 2499135

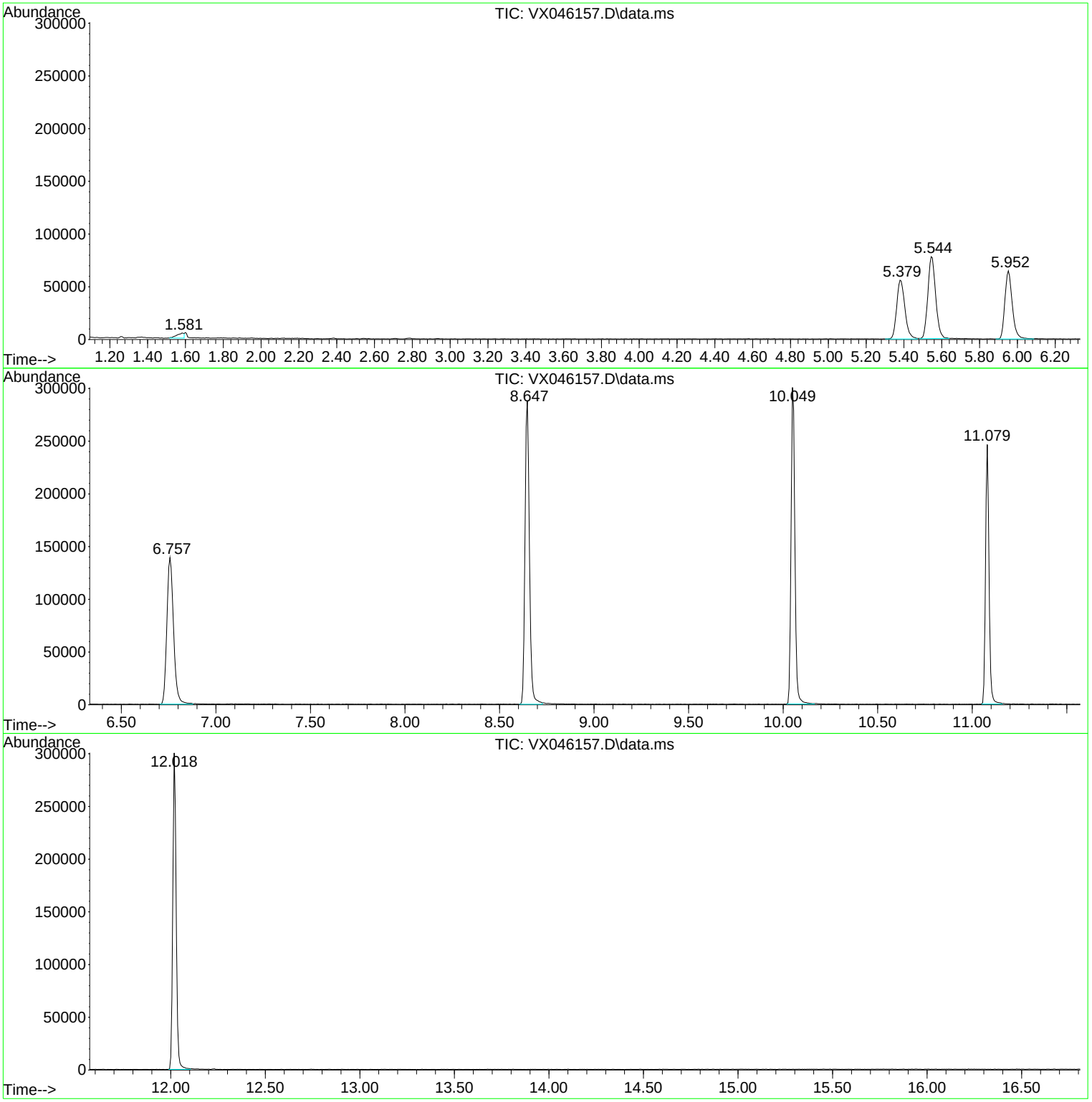
Sample Results: **VX046157.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046157.D
Acq On : 13 May 2025 11:39
Operator : JC/MD
Sample : Q1993-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046157.D
Acq On : 13 May 2025 11:39
Operator : JC/MD
Sample : Q1993-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046157.D
Acq On : 13 May 2025 11:39
Operator : JC/MD
Sample : Q1993-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
TB

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

# CALIBRATION SUMMARY

Raw Data

Alliance TECHNICAL GROUP

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG No.: Q1993

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

| COMPOUND | RRF020 | RRF050 | RRF100 | RRF150 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.727 | 0.775 | 0.787 | 0.791 | 0.679 | 0.694 | 0.742 | 6.6 |
| Vinyl Chloride | 0.660 | 0.710 | 0.727 | 0.755 | 0.619 | 0.673 | 0.691 | 7.2 |
| Bromomethane | 0.296 | 0.326 | 0.340 | 0.334 | 0.305 | | 0.320 | 5.8 |
| Chloroethane | 0.354 | 0.378 | 0.329 | 0.317 | 0.368 | 0.467 | 0.369 | 14.4 |
| 1,1-Dichloroethene | 0.565 | 0.601 | 0.607 | 0.625 | 0.567 | 0.594 | 0.593 | 3.9 |
| Acetone | 0.361 | 0.362 | 0.361 | 0.370 | 0.408 | 0.380 | 0.374 | 4.9 |
| Carbon Disulfide | 1.295 | 1.455 | 1.522 | 1.597 | 1.141 | 1.423 | 1.406 | 11.7 |
| Methyl tert-butyl Ether | 2.044 | 2.160 | 2.172 | 2.239 | 1.908 | 1.949 | 2.079 | 6.4 |
| Methylene Chloride | 0.689 | 0.684 | 0.691 | 0.691 | 0.689 | 0.853 | 0.716 | 9.4 |
| trans-1,2-Dichloroethene | 0.573 | 0.610 | 0.612 | 0.622 | 0.557 | 0.604 | 0.596 | 4.3 |
| 1,1-Dichloroethane | 1.233 | 1.263 | 1.263 | 1.286 | 1.154 | 1.116 | 1.219 | 5.6 |
| 2-Butanone | 0.540 | 0.555 | 0.558 | 0.569 | 0.539 | 0.495 | 0.543 | 4.8 |
| Carbon Tetrachloride | 0.528 | 0.558 | 0.552 | 0.577 | 0.505 | 0.541 | 0.544 | 4.6 |
| cis-1,2-Dichloroethene | 0.716 | 0.737 | 0.738 | 0.755 | 0.642 | 0.719 | 0.718 | 5.5 |
| Chloroform | 1.287 | 1.296 | 1.277 | 1.300 | 1.199 | 1.265 | 1.271 | 3 |
| 1,1,1-Trichloroethane | 1.106 | 1.131 | 1.155 | 1.188 | 1.013 | 1.015 | 1.101 | 6.6 |
| Benzene | 1.426 | 1.474 | 1.441 | 1.477 | 1.337 | 1.348 | 1.417 | 4.3 |
| 1,2-Dichloroethane | 0.632 | 0.627 | 0.611 | 0.625 | 0.594 | 0.579 | 0.612 | 3.5 |
| Trichloroethene | 0.344 | 0.355 | 0.345 | 0.362 | 0.315 | 0.324 | 0.341 | 5.3 |
| 1,2-Dichloropropane | 0.356 | 0.371 | 0.368 | 0.378 | 0.324 | 0.317 | 0.352 | 7.4 |
| Bromodichloromethane | 0.557 | 0.577 | 0.573 | 0.594 | 0.498 | 0.485 | 0.547 | 8.2 |
| 4-Methyl-2-Pentanone | 0.620 | 0.634 | 0.630 | 0.631 | 0.555 | 0.561 | 0.605 | 6 |
| Toluene | 0.884 | 0.898 | 0.885 | 0.904 | 0.838 | 0.803 | 0.869 | 4.5 |
| t-1,3-Dichloropropene | 0.468 | 0.528 | 0.555 | 0.591 | 0.406 | 0.371 | 0.487 | 17.9 |
| cis-1,3-Dichloropropene | 0.531 | 0.578 | 0.602 | 0.623 | 0.469 | 0.423 | 0.538 | 14.6 |
| 1,1,2-Trichloroethane | 0.349 | 0.354 | 0.351 | 0.356 | 0.337 | 0.308 | 0.343 | 5.3 |
| 2-Hexanone | 0.466 | 0.473 | 0.477 | 0.473 | 0.414 | 0.385 | 0.448 | 8.7 |
| Dibromochloromethane | 0.378 | 0.400 | 0.415 | 0.431 | 0.326 | 0.306 | 0.376 | 13.3 |
| Tetrachloroethene | 0.390 | 0.375 | 0.345 | 0.344 | 0.323 | 0.347 | 0.354 | 6.8 |
| Chlorobenzene | 1.093 | 1.098 | 1.085 | 1.114 | 1.046 | 1.131 | 1.094 | 2.7 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG No.: Q1993

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

| COMPOUND | RRF020 | RRF050 | RRF100 | RRF150 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Ethyl Benzene | 1.919 | 2.022 | 1.979 | 2.036 | 1.816 | 1.803 | 1.929 | 5.2 |
| m/p-Xylenes | 0.706 | 0.740 | 0.721 | 0.740 | 0.678 | 0.648 | 0.706 | 5.2 |
| o-Xylene | 0.688 | 0.727 | 0.706 | 0.726 | 0.639 | 0.642 | 0.688 | 5.7 |
| Styrene | 1.135 | 1.219 | 1.214 | 1.230 | 1.012 | 0.951 | 1.127 | 10.6 |
| Bromoform | 0.270 | 0.304 | 0.312 | 0.327 | 0.236 | 0.234 | 0.281 | 14.2 |
| 1,1,2,2-Tetrachloroethane | 1.315 | 1.338 | 1.284 | 1.345 | 1.350 | 1.552 | 1.364 | 7 |
| 1,2-Dichloroethane-d4 | 0.953 | 0.910 | 0.930 | 0.932 | 0.935 | | 0.932 | 1.6 |
| Dibromofluoromethane | 0.359 | 0.355 | 0.364 | 0.368 | 0.354 | | 0.360 | 1.7 |
| Toluene-d8 | 1.246 | 1.223 | 1.266 | 1.275 | 1.221 | | 1.246 | 2 |
| 4-Bromofluorobenzene | 0.455 | 0.470 | 0.500 | 0.500 | 0.464 | | 0.478 | 4.4 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025
Response Via : Initial Calibration

Calibration Files
1 =VX046047.D 5 =VX046046.D 20 =VX046041.D 50 =VX046042.D 100 =VX046043.D 150 =VX046044.D

| | | Compound | 1 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.658 | 0.639 | 0.697 | 0.864 | 0.859 | 0.875 | 0.765 | 14.62 |
| 3) | P | Chloromethane | 0.694 | 0.679 | 0.727 | 0.775 | 0.787 | 0.791 | 0.742 | 6.58 |
| 4) | C | Vinyl Chloride | 0.673 | 0.619 | 0.660 | 0.710 | 0.727 | 0.755 | 0.691 | 7.17# |
| 5) | T | Bromomethane | | 0.305 | 0.296 | 0.326 | 0.340 | 0.334 | 0.320 | 5.84 |
| 6) | T | Chloroethane | 0.467 | 0.368 | 0.354 | 0.378 | 0.329 | 0.317 | 0.369 | 14.44 |
| 7) | T | Trichlorofluor... | 1.064 | 0.990 | 1.035 | 1.068 | 0.983 | 0.985 | 1.021 | 3.92 |
| 8) | T | Diethyl Ether | 0.403 | 0.311 | 0.340 | 0.337 | 0.338 | 0.355 | 0.347 | 8.83 |
| 9) | T | 1,1,2-Trichlor... | 0.633 | 0.610 | 0.628 | 0.641 | 0.629 | 0.648 | 0.632 | 2.10 |
| 10) | T | Methyl Iodide | | 0.608 | 0.767 | 0.806 | 0.793 | 0.763 | 0.747 | 10.68 |
| 11) | T | Tert butyl alc... | | 0.114 | 0.122 | 0.129 | 0.144 | 0.146 | 0.131 | 10.45 |
| 12) | CM | 1,1-Dichloroet... | 0.594 | 0.567 | 0.565 | 0.601 | 0.607 | 0.625 | 0.593 | 3.94# |
| 13) | T | Acrolein | | 0.117 | 0.158 | 0.152 | 0.154 | 0.163 | 0.149 | 12.33 |
| 14) | T | Allyl chloride | 1.052 | 1.058 | 1.127 | 1.179 | 1.187 | 1.196 | 1.133 | 5.75 |
| 15) | T | Acrylonitrile | 0.363 | 0.345 | 0.378 | 0.388 | 0.381 | 0.390 | 0.374 | 4.52 |
| 16) | T | Acetone | 0.380 | 0.408 | 0.361 | 0.362 | 0.361 | 0.370 | 0.374 | 4.90 |
| 17) | T | Carbon Disulfide | 1.423 | 1.141 | 1.295 | 1.455 | 1.522 | 1.597 | 1.406 | 11.68 |
| 18) | T | Methyl Acetate | 1.006 | 0.816 | 0.814 | 0.848 | 0.845 | 0.875 | 0.867 | 8.27 |
| 19) | T | Methyl tert-bu... | 1.949 | 1.908 | 2.044 | 2.160 | 2.172 | 2.239 | 2.079 | 6.39 |
| 20) | T | Methylene Chlo... | 0.853 | 0.689 | 0.689 | 0.684 | 0.691 | 0.691 | 0.716 | 9.39 |
| 21) | T | trans-1,2-Dich... | 0.604 | 0.557 | 0.573 | 0.610 | 0.612 | 0.622 | 0.596 | 4.27 |
| 22) | T | Diisopropyl ether | 2.095 | 1.924 | 2.219 | 2.278 | 2.295 | 2.321 | 2.189 | 6.97 |
| 23) | T | Vinyl Acetate | 1.660 | 1.698 | 1.928 | 2.048 | 2.082 | 2.134 | 1.925 | 10.52 |
| 24) | P | 1,1-Dichloroet... | 1.116 | 1.154 | 1.233 | 1.263 | 1.263 | 1.286 | 1.219 | 5.60 |
| 25) | T | 2-Butanone | 0.495 | 0.539 | 0.540 | 0.555 | 0.558 | 0.569 | 0.543 | 4.77 |
| 26) | T | 2,2-Dichloropr... | 0.965 | 0.850 | 0.910 | 0.957 | 1.003 | 1.039 | 0.954 | 7.03 |
| 27) | T | cis-1,2-Dichlo... | 0.719 | 0.642 | 0.716 | 0.737 | 0.738 | 0.755 | 0.718 | 5.55 |
| 28) | T | Bromochloromet... | 0.576 | 0.553 | 0.628 | 0.578 | 0.595 | 0.590 | 0.587 | 4.28 |
| 29) | T | Tetrahydrofuran | 0.318 | 0.318 | 0.340 | 0.350 | 0.351 | 0.362 | 0.340 | 5.36 |
| 30) | C | Chloroform | 1.265 | 1.199 | 1.287 | 1.296 | 1.277 | 1.300 | 1.271 | 2.95# |
| 31) | T | Cyclohexane | | 1.059 | 1.090 | 1.128 | 1.128 | 1.150 | 1.111 | 3.26 |
| 32) | T | 1,1,1-Trichlor... | 1.015 | 1.013 | 1.106 | 1.131 | 1.155 | 1.188 | 1.101 | 6.60 |
| 33) | S | 1,2-Dichloroet... | | 0.935 | 0.953 | 0.910 | 0.930 | 0.932 | 0.932 | 1.65 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | | 0.354 | 0.359 | 0.355 | 0.364 | 0.368 | 0.360 | 1.70 |
| 36) | T | 1,1-Dichloropr... | 0.493 | 0.462 | 0.463 | 0.495 | 0.483 | 0.505 | 0.484 | 3.68 |
| 37) | T | Ethyl Acetate | 0.586 | 0.582 | 0.569 | 0.611 | 0.609 | 0.631 | 0.598 | 3.83 |
| 38) | T | Carbon Tetrach... | 0.541 | 0.505 | 0.528 | 0.558 | 0.552 | 0.577 | 0.544 | 4.61 |
| 39) | T | Methylcyclohexane | 0.627 | 0.587 | 0.596 | 0.641 | 0.627 | 0.658 | 0.623 | 4.34 |
| 40) | TM | Benzene | 1.348 | 1.337 | 1.426 | 1.474 | 1.441 | 1.477 | 1.417 | 4.30 |
| 41) | T | Methacrylonitrile | 0.233 | 0.288 | 0.318 | 0.346 | 0.343 | 0.348 | 0.313 | 14.50 |
| 42) | TM | 1,2-Dichloroet... | 0.579 | 0.594 | 0.632 | 0.627 | 0.611 | 0.625 | 0.612 | 3.45 |
| 43) | T | Isopropyl Acetate | 0.764 | 0.826 | 0.905 | 0.963 | 0.982 | 1.030 | 0.912 | 11.05 |
| 44) | TM | Trichloroethene | 0.324 | 0.315 | 0.344 | 0.355 | 0.345 | 0.362 | 0.341 | 5.28 |
| 45) | C | 1,2-Dichloropr... | 0.317 | 0.324 | 0.356 | 0.371 | 0.368 | 0.378 | 0.352 | 7.37# |
| 46) | T | Dibromomethane | 0.263 | 0.262 | 0.285 | 0.287 | 0.280 | 0.289 | 0.278 | 4.35 |
| 47) | T | Bromodichlorom... | 0.485 | 0.498 | 0.557 | 0.577 | 0.573 | 0.594 | 0.547 | 8.22 |
| 48) | T | Methyl methacr... | 0.370 | 0.426 | 0.465 | 0.502 | 0.500 | 0.531 | 0.466 | 12.75 |
| 49) | T | 1,4-Dioxane | 0.007 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.009 | 8.45 |
| 50) | S | Toluene-d8 | | 1.221 | 1.246 | 1.223 | 1.266 | 1.275 | 1.246 | 1.95 |
| 51) | T | 4-Methyl-2-Pen... | 0.561 | 0.555 | 0.620 | 0.634 | 0.630 | 0.631 | 0.605 | 6.04 |
| 52) | CM | Toluene | 0.803 | 0.838 | 0.884 | 0.898 | 0.885 | 0.904 | 0.869 | 4.54# |
| 53) | T | t-1,3-Dichloro... | 0.371 | 0.406 | 0.468 | 0.528 | 0.555 | 0.591 | 0.487 | 17.86 |
| 54) | T | cis-1,3-Dichlo... | 0.423 | 0.469 | 0.531 | 0.578 | 0.602 | 0.623 | 0.538 | 14.61 |
| 55) | T | 1,1,2-Trichlor... | 0.308 | 0.337 | 0.349 | 0.354 | 0.351 | 0.356 | 0.343 | 5.30 |
| 56) | T | Ethyl methacry... | 0.377 | 0.508 | 0.540 | 0.595 | 0.617 | 0.639 | 0.546 | 17.58 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X050525W.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.610 | 0.601 | 0.618 | 0.623 | 0.613 | 0.627 | 0.615 | 1.53 |
| 58) | T | 2-Chloroethyl ... | 0.230 | 0.247 | 0.270 | 0.307 | 0.303 | 0.313 | 0.278 | 12.41 |
| 59) | T | 2-Hexanone | 0.385 | 0.414 | 0.466 | 0.473 | 0.477 | 0.473 | 0.448 | 8.69 |
| 60) | T | Dibromochlorom... | 0.306 | 0.326 | 0.378 | 0.400 | 0.415 | 0.431 | 0.376 | 13.28 |
| 61) | T | 1,2-Dibromoethane | 0.322 | 0.333 | 0.359 | 0.373 | 0.368 | 0.381 | 0.356 | 6.54 |
| 62) | S | 4-Bromofluorob... | | 0.464 | 0.455 | 0.470 | 0.500 | 0.500 | 0.478 | 4.41 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.347 | 0.323 | 0.390 | 0.375 | 0.345 | 0.344 | 0.354 | 6.84 |
| 65) | PM | Chlorobenzene | 1.131 | 1.046 | 1.093 | 1.098 | 1.085 | 1.114 | 1.094 | 2.65 |
| 66) | T | 1,1,1,2-Tetrac... | 0.369 | 0.341 | 0.365 | 0.390 | 0.382 | 0.395 | 0.374 | 5.22 |
| 67) | C | Ethyl Benzene | 1.803 | 1.816 | 1.919 | 2.022 | 1.979 | 2.036 | 1.929 | 5.24# |
| 68) | T | m/p-Xylenes | 0.648 | 0.678 | 0.706 | 0.740 | 0.721 | 0.740 | 0.706 | 5.21 |
| 69) | T | o-Xylene | 0.642 | 0.639 | 0.688 | 0.727 | 0.706 | 0.726 | 0.688 | 5.75 |
| 70) | T | Styrene | 0.951 | 1.012 | 1.135 | 1.219 | 1.214 | 1.230 | 1.127 | 10.56 |
| 71) | P | Bromoform | 0.234 | 0.236 | 0.270 | 0.304 | 0.312 | 0.327 | 0.281 | 14.17 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.789 | 3.562 | 3.843 | 4.130 | 3.876 | 4.156 | 3.893 | 5.72 |
| 74) | T | N-amyl acetate | 1.715 | 1.652 | 1.846 | 2.067 | 2.068 | 2.192 | 1.924 | 11.32 |
| 75) | P | 1,1,2,2-Tetrac... | 1.552 | 1.350 | 1.315 | 1.338 | 1.284 | 1.345 | 1.364 | 6.97 |
| 76) | T | 1,2,3-Trichlor... | 1.405 | 1.167 | 1.151 | 1.187 | 1.131 | 1.181 | 1.204 | 8.36 |
| 77) | T | Bromobenzene | 0.926 | 0.862 | 0.896 | 0.928 | 0.883 | 0.928 | 0.904 | 3.08 |
| 78) | T | n-propylbenzene | 4.272 | 4.186 | 4.394 | 4.854 | 4.583 | 4.868 | 4.526 | 6.45 |
| 79) | T | 2-Chlorotoluene | 3.184 | 2.748 | 2.832 | 2.994 | 2.805 | 2.953 | 2.919 | 5.45 |
| 80) | T | 1,3,5-Trimethy... | 3.036 | 3.053 | 3.275 | 3.487 | 3.255 | 3.405 | 3.252 | 5.60 |
| 81) | T | trans-1,4-Dich... | | 0.269 | 0.335 | 0.385 | 0.410 | 0.449 | 0.370 | 18.91 |
| 82) | T | 4-Chlorotoluene | 3.226 | 2.939 | 3.196 | 3.430 | 3.255 | 3.379 | 3.238 | 5.32 |
| 83) | T | tert-Butylbenzene | 3.341 | 3.098 | 3.115 | 3.435 | 3.255 | 3.411 | 3.276 | 4.44 |
| 84) | T | 1,2,4-Trimethy... | 3.150 | 3.034 | 3.274 | 3.522 | 3.335 | 3.444 | 3.293 | 5.52 |
| 85) | T | sec-Butylbenzene | 3.708 | 3.767 | 3.937 | 4.282 | 4.095 | 4.343 | 4.022 | 6.55 |
| 86) | T | p-Isopropyltol... | 3.025 | 3.084 | 3.206 | 3.555 | 3.450 | 3.599 | 3.320 | 7.44 |
| 87) | T | 1,3-Dichlorobe... | 1.619 | 1.558 | 1.633 | 1.701 | 1.656 | 1.729 | 1.649 | 3.71 |
| 88) | T | 1,4-Dichlorobe... | 1.817 | 1.606 | 1.629 | 1.693 | 1.639 | 1.722 | 1.684 | 4.64 |
| 89) | T | n-Butylbenzene | 2.443 | 2.650 | 2.748 | 3.147 | 3.139 | 3.346 | 2.912 | 12.00 |
| 90) | T | Hexachloroethane | 0.511 | 0.523 | 0.551 | 0.622 | 0.622 | 0.680 | 0.585 | 11.44 |
| 91) | T | 1,2-Dichlorobe... | 1.710 | 1.577 | 1.613 | 1.696 | 1.634 | 1.702 | 1.655 | 3.34 |
| 92) | T | 1,2-Dibromo-3-... | 0.259 | 0.248 | 0.299 | 0.322 | 0.329 | 0.356 | 0.302 | 13.89 |
| 93) | T | 1,2,4-Trichlor... | 0.862 | 0.842 | 0.861 | 0.981 | 1.035 | 1.123 | 0.951 | 12.03 |
| 94) | T | Hexachlorobuta... | 0.393 | 0.414 | 0.394 | 0.427 | 0.418 | 0.445 | 0.415 | 4.79 |
| 95) | T | Naphthalene | 3.499 | 2.929 | 3.204 | 3.613 | 3.690 | 3.984 | 3.487 | 10.69 |
| 96) | T | 1,2,3-Trichlor... | 0.941 | 0.846 | 0.921 | 1.019 | 1.051 | 1.107 | 0.981 | 9.74 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.543 | 168 | 83671 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 147096 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.055 | 117 | 127829 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 60503 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 31909 | 12.820 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 25.640%# | | |
| 35) Dibromofluoromethane | 5.385 | 113 | 21112 | 12.804 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 25.600%# | | |
| 50) Toluene-d8 | 8.646 | 98 | 73333 | 13.200 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 26.400%# | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 26760 | 13.236 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 26.480%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 23341 | 12.638 | ug/l | 96 |
| 3) Chloromethane | 1.306 | 50 | 24316 | 13.371 | ug/l | 98 |
| 4) Vinyl Chloride | 1.373 | 62 | 22096 | 13.868 | ug/l | 94 |
| 5) Bromomethane | 1.593 | 94 | 9920 | 12.279 | ug/l | 93 |
| 6) Chloroethane | 1.666 | 64 | 11832 | 14.414 | ug/l | 95 |
| 7) Trichlorofluoromethane | 1.873 | 101 | 34636 | 14.271 | ug/l | 100 |
| 8) Diethyl Ether | 2.129 | 74 | 11392 | 14.278 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 2.324 | 101 | 21027 | 14.499 | ug/l | 98 |
| 10) Methyl Iodide | 2.446 | 142 | 25661 | 15.070 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.971 | 59 | 20370 | 68.662 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 18899 | 13.385 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 26427 | 76.689 | ug/l | 95 |
| 14) Allyl chloride | 2.660 | 41 | 37708 | 14.133 | ug/l | 99 |
| 15) Acrylonitrile | 3.062 | 53 | 63290 | 71.312 | ug/l | 98 |
| 16) Acetone | 2.379 | 43 | 60363 | 70.884 | ug/l | 99 |
| 17) Carbon Disulfide | 2.501 | 76 | 43348 | 13.251 | ug/l | 100 |
| 18) Methyl Acetate | 2.702 | 43 | 27234 | 13.397 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 68402 | 13.890 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 23050 | 13.362 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.086 | 96 | 19161 | 13.294 | ug/l | 96 |
| 22) Diisopropyl ether | 3.763 | 45 | 74257 | 14.896 | ug/l | 95 |
| 23) Vinyl Acetate | 3.720 | 43 | 322598 | 73.230 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 41257 | 14.082 | ug/l | 98 |
| 25) 2-Butanone | 4.556 | 43 | 90331 | 73.489 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 4.470 | 77 | 30472 | 13.729 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 23970 | 13.791 | ug/l | 98 |
| 28) Bromochloromethane | 4.897 | 49 | 21028 | 13.497 | ug/l | 99 |
| 29) Tetrahydrofuran | 5.007 | 42 | 56819 | 71.175 | ug/l | 100 |
| 30) Chloroform | 5.086 | 83 | 43065 | 14.144 | ug/l | 95 |
| 31) Cyclohexane | 5.458 | 56 | 36470 | 14.769 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 37003 | 14.092 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 27242 | 14.231 | ug/l | 98 |
| 37) Ethyl Acetate | 4.720 | 43 | 33458 | 13.931 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.671 | 117 | 31091 | 14.137 | ug/l | 98 |
| 39) Methylcyclohexane | 7.372 | 83 | 35077 | 14.623 | ug/l | 99 |
| 40) Benzene | 6.031 | 78 | 83898 | 14.140 | ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.915 | 41 | 18732 | 14.038 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 37203 | 15.165 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.342 | 43 | 53275 | 14.512 | ug/l | | 99 |
| 44) Trichloroethene | 7.116 | 130 | 20239 | 14.429 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 20940 | 14.204 | ug/l | | 98 |
| 46) Dibromomethane | 7.580 | 93 | 16781 | 14.439 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.817 | 83 | 32762 | 14.545 | ug/l | | 94 |
| 48) Methyl methacrylate | 7.689 | 41 | 27374 | 14.521 | ug/l | | 100 |
| 49) 1,4-Dioxane | 7.659 | 88 | 10585 | 282.442 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.573 | 43 | 182455 | 75.775 | ug/l | | 98 |
| 52) Toluene | 8.713 | 92 | 52030 | 14.788 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 27549 | 14.566 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 31226 | 14.154 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.152 | 97 | 20536 | 14.442 | ug/l | | 96 |
| 56) Ethyl methacrylate | 9.116 | 69 | 31787 | 14.425 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 36341 | 14.417 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 79531 | 80.312 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 137054 | 74.997 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.518 | 129 | 22267 | 14.387 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 21113 | 14.458 | ug/l | | 96 |
| 64) Tetrachloroethene | 9.268 | 164 | 19924 | 15.263 | ug/l | | 97 |
| 65) Chlorobenzene | 10.079 | 112 | 55863 | 14.202 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131 | 18671 | 14.231 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 98113 | 14.631 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 72202 | 29.806 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 35178 | 14.408 | ug/l | | 96 |
| 70) Styrene | 10.652 | 104 | 58034 | 14.853 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 13825 | 14.030 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 93013 | 14.096 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 44684 | 13.581 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 31830 | 13.560 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.237 | 75 | 27845m | 11.039 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 21695 | 14.212 | ug/l | | 96 |
| 78) n-propylbenzene | 11.298 | 91 | 106337 | 14.376 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.359 | 91 | 68534 | 13.748 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 79261 | 14.468 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 8104 | 13.371 | ug/l | | 91 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 77338 | 14.116 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 75382 | 14.011 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 79232 | 14.480 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 95271 | 14.263 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 77599 | 14.387 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 39520 | 13.898 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 39419 | 14.146 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 66506 | 14.184 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 13332 | 13.287 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 39031 | 14.092 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75 | 7232 | 13.535 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 20846 | 13.745 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 9524 | 13.426 | ug/l | | 97 |
| 95) Naphthalene | 13.774 | 128 | 77542 | 14.040 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.956 | 180 | 22301 | 14.023 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

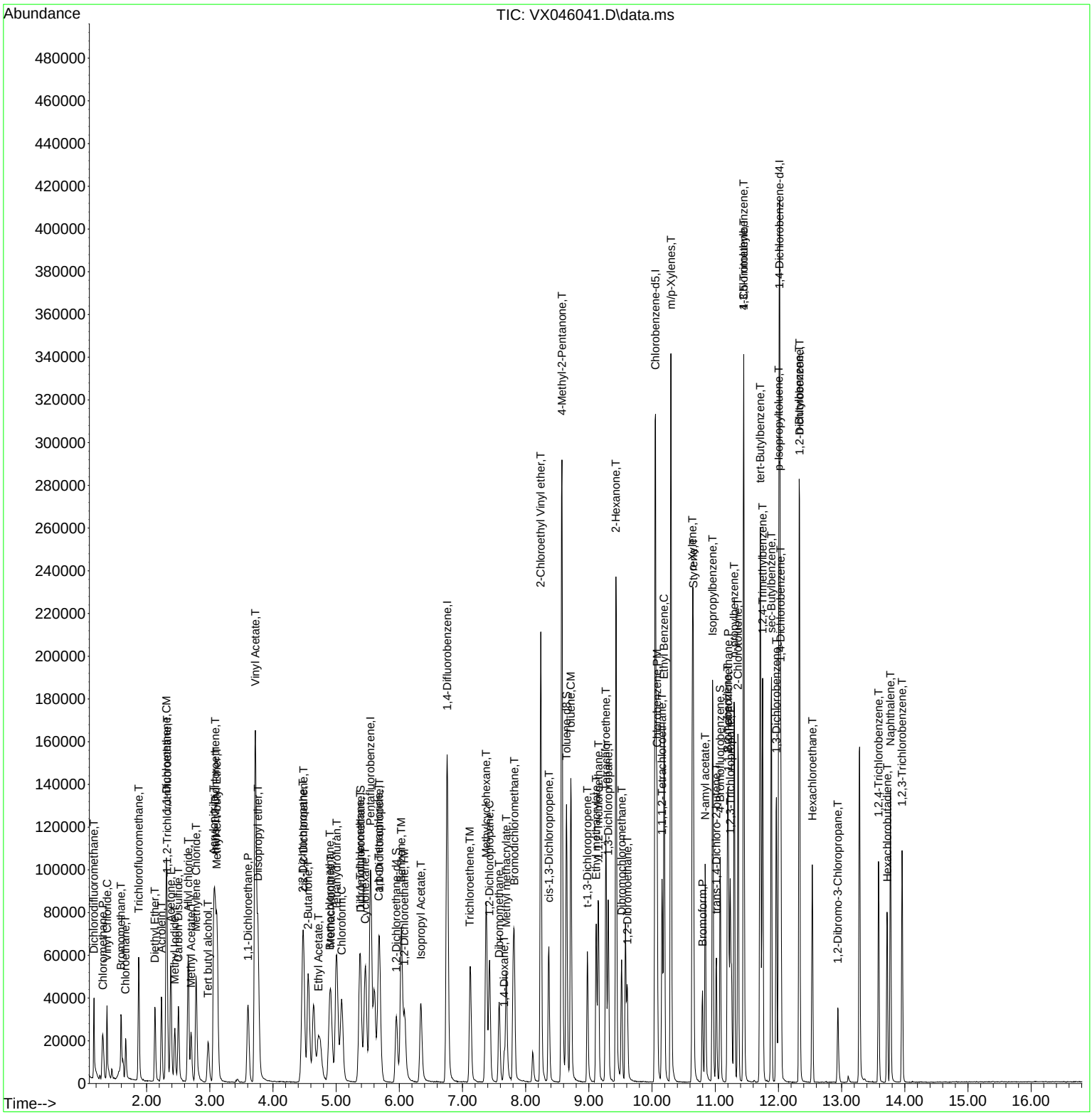
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 97076 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 167947 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 146257 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 67976 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 88371 | 30.601 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 61.200%# | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 59550 | 31.633 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 63.260%# | | |
| 50) Toluene-d8 | 8.647 | 98 | 205479 | 32.395 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 64.780%# | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 79012 | 34.229 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 68.460%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 83826 | 39.120 | ug/l | 100 |
| 3) Chloromethane | 1.307 | 50 | 75238 | 35.658 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 68901 | 37.273 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 31648 | 33.765 | ug/l | 100 |
| 6) Chloroethane | 1.666 | 64 | 36722 | 38.558 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 103693 | 36.824 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 32724 | 35.350 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 62251 | 36.997 | ug/l | 100 |
| 10) Methyl Iodide | 2.447 | 142 | 78277 | 39.622 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.977 | 59 | 62557 | 181.745 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 58334 | 35.610 | ug/l | 100 |
| 13) Acrolein | 2.233 | 56 | 73927 | 184.907 | ug/l | 100 |
| 14) Allyl chloride | 2.654 | 41 | 114445 | 36.971 | ug/l | 100 |
| 15) Acrylonitrile | 3.062 | 53 | 188304 | 182.874 | ug/l | 100 |
| 16) Acetone | 2.386 | 43 | 175777 | 177.910 | ug/l | 100 |
| 17) Carbon Disulfide | 2.502 | 76 | 141281 | 37.223 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 82347 | 34.915 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 209665 | 36.695 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 66412 | 33.182 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 59234 | 35.421 | ug/l | 100 |
| 22) Diisopropyl ether | 3.757 | 45 | 221172 | 38.241 | ug/l | 100 |
| 23) Vinyl Acetate | 3.721 | 43 | 994236 | 194.528 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 122601 | 36.067 | ug/l | 100 |
| 25) 2-Butanone | 4.556 | 43 | 269224 | 188.783 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 92857 | 36.059 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 71518 | 35.466 | ug/l | 100 |
| 28) Bromochloromethane | 4.898 | 49 | 56091 | 31.031 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 170124 | 183.679 | ug/l | 100 |
| 30) Chloroform | 5.087 | 83 | 125850 | 35.626 | ug/l | 100 |
| 31) Cyclohexane | 5.464 | 56 | 109459 | 38.205 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 109781 | 36.034 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 83215 | 38.073 | ug/l | 100 |
| 37) Ethyl Acetate | 4.715 | 43 | 102537 | 37.394 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 93712 | 37.320 | ug/l | 100 |
| 39) Methylcyclohexane | 7.373 | 83 | 107651 | 39.307 | ug/l | 100 |
| 40) Benzene | 6.031 | 78 | 247476 | 36.530 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 58082 | 38.123 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 105332 | 37.605 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 161787 | 38.598 | ug/l | | 100 |
| 44) Trichloroethene | 7.123 | 130 | 59623 | 37.230 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 62387 | 37.064 | ug/l | | 100 |
| 46) Dibromomethane | 7.574 | 93 | 48201 | 36.326 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 96916 | 37.685 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.690 | 41 | 84277 | 39.157 | ug/l | | 100 |
| 49) 1,4-Dioxane | 7.659 | 88 | 30529 | 713.477 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 532388 | 193.653 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 150757 | 37.530 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 88655 | 41.056 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 97031 | 38.521 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 59499 | 36.648 | ug/l | | 100 |
| 56) Ethyl methacrylate | 9.116 | 69 | 99947 | 39.726 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 104606 | 36.347 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 257678 | 227.902 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 396784 | 190.168 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 67198 | 38.027 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 62633 | 37.567 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 54853 | 36.726 | ug/l | | 100 |
| 65) Chlorobenzene | 10.079 | 112 | 160600 | 35.686 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 57066 | 38.017 | ug/l | | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 295712 | 38.543 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 216578 | 78.142 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 106335 | 38.064 | ug/l | | 100 |
| 70) Styrene | 10.653 | 104 | 178313 | 39.888 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 44486 | 39.457 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 280719 | 37.865 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 140509 | 38.012 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 90975 | 34.495 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 80678m | 28.468 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 63053 | 36.763 | ug/l | | 100 |
| 78) n-propylbenzene | 11.299 | 91 | 329981 | 39.707 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 203509 | 36.336 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 237066 | 38.516 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 26179 | 38.445 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 233172 | 37.880 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 233468 | 38.622 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 239433 | 38.946 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 291074 | 38.786 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 241658 | 39.879 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 115651 | 36.199 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 115097 | 36.763 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 213899 | 40.603 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 42314 | 37.534 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 115286 | 37.047 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 21909 | 36.496 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 66655 | 39.117 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 29007 | 36.395 | ug/l | | 100 |
| 95) Naphthalene | 13.774 | 128 | 245568 | 39.575 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 69262 | 38.765 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

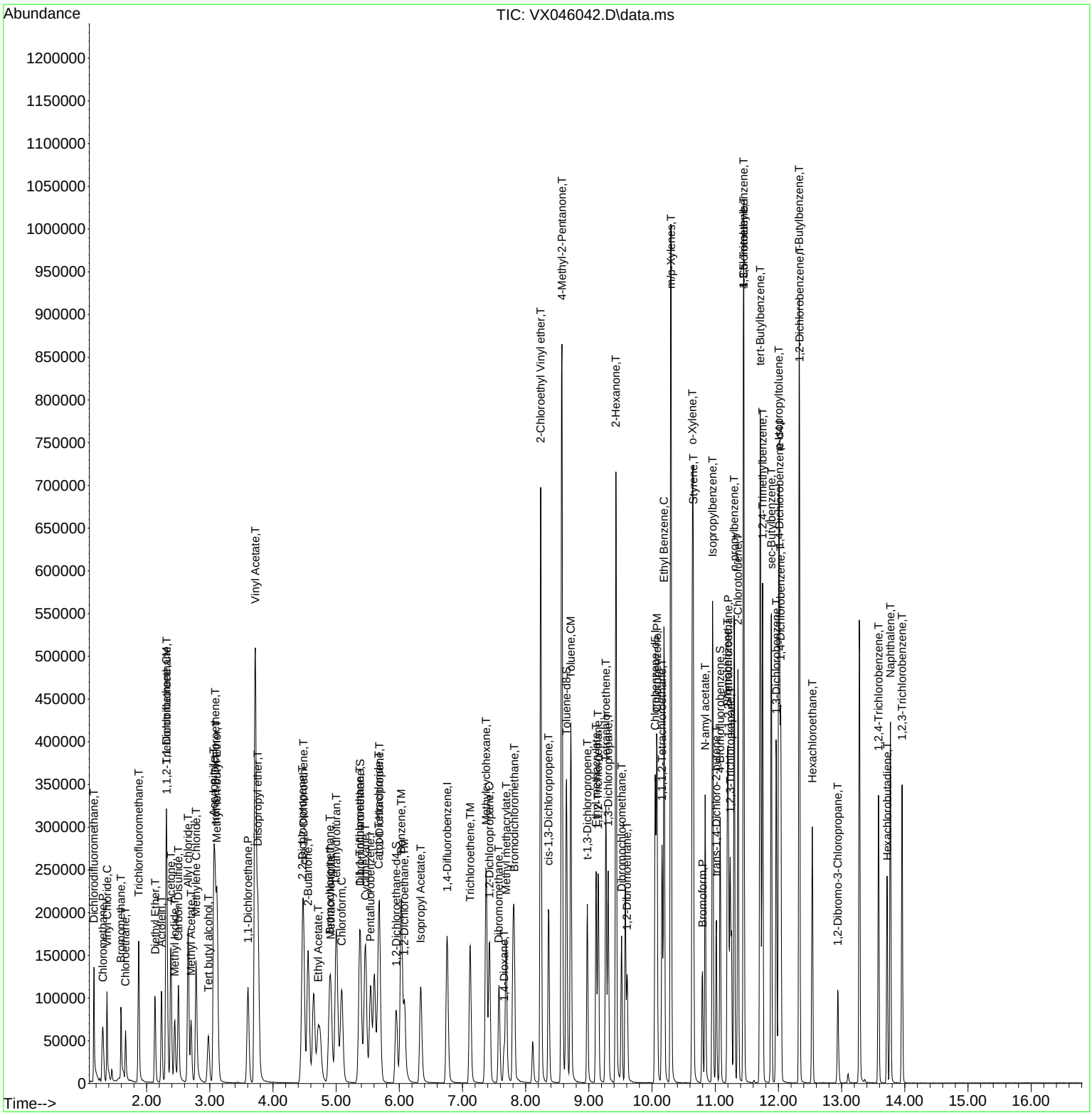
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 87028 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 152958 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 135214 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 66369 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 161877 | 62.526 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 125.060%# | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 111455 | 65.006 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 130.020%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 387230 | 67.031 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 134.060%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 153085 | 72.818 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 145.640%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 149508 | 77.828 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 136937 | 72.392 | ug/l | 98 |
| 4) Vinyl Chloride | 1.374 | 62 | 126609 | 76.398 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 59246 | 70.507 | ug/l | 99 |
| 6) Chloroethane | 1.660 | 64 | 57332 | 67.148 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.867 | 101 | 171042 | 67.754 | ug/l | 99 |
| 8) Diethyl Ether | 2.136 | 74 | 58762 | 70.807 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 109520 | 72.604 | ug/l | 99 |
| 10) Methyl Iodide | 2.440 | 142 | 138045 | 77.943 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.995 | 59 | 125094 | 405.394 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 105566 | 71.884 | ug/l | 96 |
| 13) Acrolein | 2.239 | 56 | 134456 | 375.132 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 206519 | 74.419 | ug/l | 98 |
| 15) Acrylonitrile | 3.068 | 53 | 331142 | 358.723 | ug/l | 97 |
| 16) Acetone | 2.386 | 43 | 314383 | 354.936 | ug/l | 98 |
| 17) Carbon Disulfide | 2.501 | 76 | 264956 | 77.867 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 147014 | 69.531 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 378113 | 73.818 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 120270 | 67.030 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 106606 | 71.109 | ug/l | 99 |
| 22) Diisopropyl ether | 3.763 | 45 | 399494 | 77.048 | ug/l | 90 |
| 23) Vinyl Acetate | 3.721 | 43 | 1811550 | 395.363 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 219759 | 72.114 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 485448 | 379.704 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 174579 | 75.621 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 128454 | 71.056 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 103602 | 63.932 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 305757 | 368.234 | ug/l | 99 |
| 30) Chloroform | 5.086 | 83 | 222253 | 70.180 | ug/l | 95 |
| 31) Cyclohexane | 5.458 | 56 | 196302 | 76.428 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 201112 | 73.635 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 147873 | 74.285 | ug/l | 99 |
| 37) Ethyl Acetate | 4.714 | 43 | 186215 | 74.565 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 168946 | 73.875 | ug/l | 99 |
| 39) Methylcyclohexane | 7.372 | 83 | 191941 | 76.952 | ug/l | 96 |
| 40) Benzene | 6.031 | 78 | 440885 | 71.457 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 104863 | 75.574 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 187036 | 73.318 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.342 | 43 | 300491 | 78.714 | ug/l | | 100 |
| 44) Trichloroethene | 7.123 | 130 | 105628 | 72.420 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 112554 | 73.420 | ug/l | | 100 |
| 46) Dibromomethane | 7.574 | 93 | 85728 | 70.938 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 175301 | 74.845 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.689 | 41 | 153093 | 78.101 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 57313 | 1470.687 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.573 | 43 | 963319 | 384.740 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 270763 | 74.010 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 169863 | 86.372 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 184134 | 80.264 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 107264 | 72.543 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.116 | 69 | 188717 | 82.359 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 187649 | 71.590 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 463169 | 449.791 | ug/l | | 100 |
| 59) 2-Hexanone | 9.433 | 43 | 729602 | 383.945 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 127012 | 78.918 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 112669 | 74.200 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.268 | 164 | 93195 | 67.493 | ug/l | | 96 |
| 65) Chlorobenzene | 10.079 | 112 | 293284 | 70.490 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 103177 | 74.349 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 535122 | 75.444 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 389935 | 152.181 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 190833 | 73.890 | ug/l | | 97 |
| 70) Styrene | 10.652 | 104 | 328195 | 79.411 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 84353 | 80.927 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 514528 | 71.083 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 274553 | 76.073 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 170481 | 66.207 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 150182m | 54.277 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 117151 | 69.959 | ug/l | | 99 |
| 78) n-propylbenzene | 11.305 | 91 | 608332 | 74.974 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 372392 | 68.100 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 432096 | 71.903 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 54398 | 81.820 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 432053 | 71.890 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 432011 | 73.197 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 442728 | 73.758 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 543597 | 74.188 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 457898 | 77.393 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 219753 | 70.449 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 217613 | 71.190 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 416602 | 80.996 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 82528 | 74.978 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 216834 | 71.367 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 43673 | 74.512 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 137430 | 82.605 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 55494 | 71.314 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 489778 | 80.842 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 139525 | 79.981 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

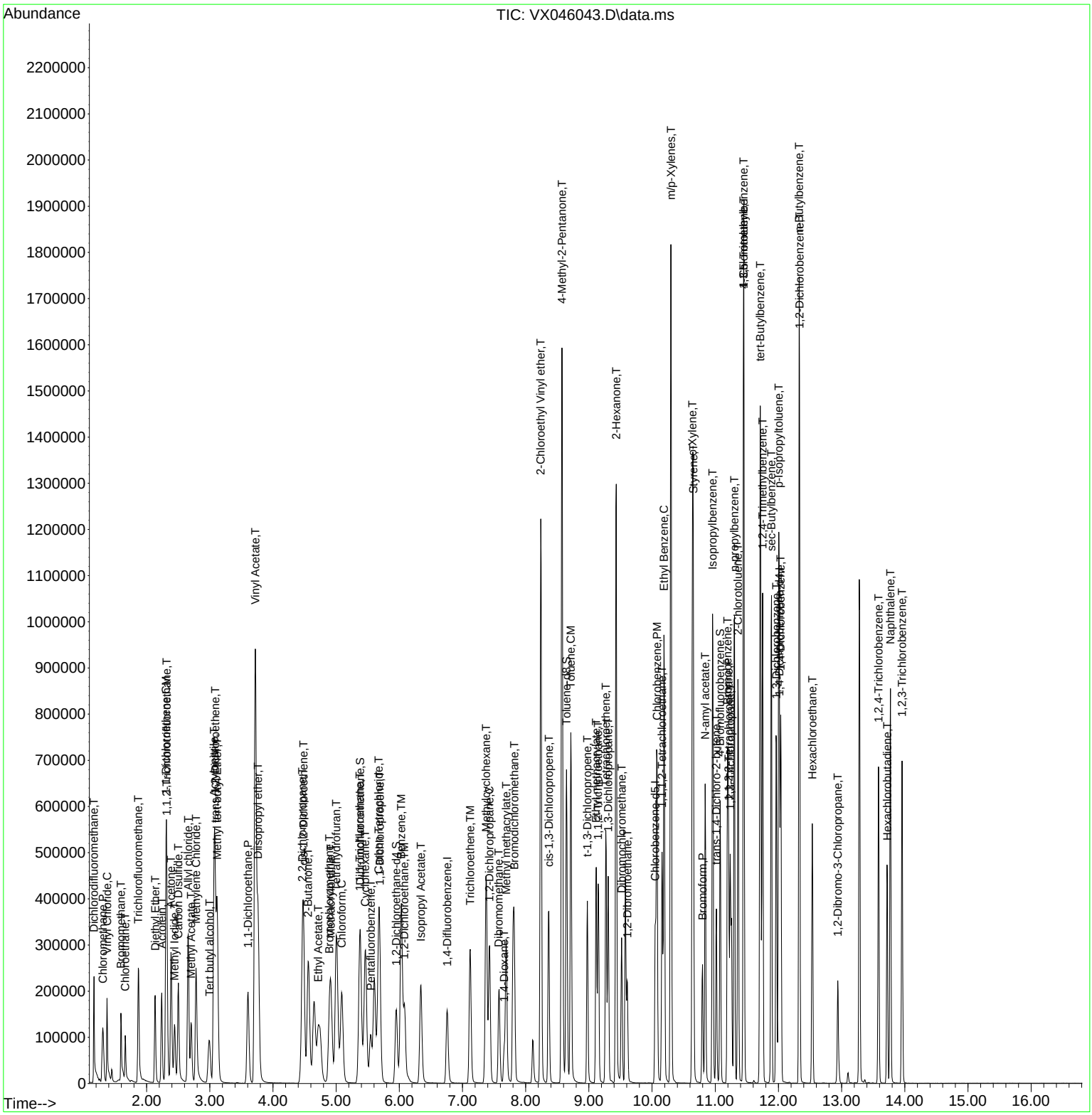
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 82963 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 144975 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 128557 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 60345 | 50.000 | ug/l | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 231952 | 93.983 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 187.960%# | | | |
| 35) Dibromofluoromethane | 5.385 | 113 | 160168 | 98.562 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 197.120%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 554390 | 101.252 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 202.500%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 217536 | 109.174 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 218.340%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 217793 | 118.929 | ug/l | 98 |
| 3) Chloromethane | 1.307 | 50 | 196843 | 109.161 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 187924 | 118.953 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 83008 | 103.625 | ug/l | 95 |
| 6) Chloroethane | 1.660 | 64 | 78806 | 96.822 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.868 | 101 | 245108 | 101.851 | ug/l | 97 |
| 8) Diethyl Ether | 2.136 | 74 | 88441 | 111.791 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.313 | 101 | 161404 | 112.243 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 189843 | 112.441 | ug/l | 100 |
| 11) Tert butyl alcohol | 3.002 | 59 | 181238 | 616.119 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.307 | 96 | 155451 | 111.039 | ug/l | 99 |
| 13) Acrolein | 2.239 | 56 | 203257 | 594.872 | ug/l | 98 |
| 14) Allyl chloride | 2.654 | 41 | 297776 | 112.561 | ug/l | 98 |
| 15) Acrylonitrile | 3.069 | 53 | 484854 | 550.973 | ug/l | 98 |
| 16) Acetone | 2.392 | 43 | 460820 | 545.754 | ug/l | 98 |
| 17) Carbon Disulfide | 2.502 | 76 | 397353 | 122.499 | ug/l | 100 |
| 18) Methyl Acetate | 2.709 | 43 | 217885 | 108.099 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 557210 | 114.112 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 172035 | 100.579 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 154694 | 108.241 | ug/l | 96 |
| 22) Diisopropyl ether | 3.764 | 45 | 577610 | 116.858 | ug/l | 90 |
| 23) Vinyl Acetate | 3.721 | 43 | 2655751 | 608.005 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 320083 | 110.182 | ug/l | 99 |
| 25) 2-Butanone | 4.562 | 43 | 708463 | 581.292 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 258698 | 117.548 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 187835 | 108.994 | ug/l | 99 |
| 28) Bromochloromethane | 4.898 | 49 | 146923 | 95.108 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.007 | 42 | 450456 | 569.081 | ug/l | 99 |
| 30) Chloroform | 5.087 | 83 | 323659 | 107.208 | ug/l | 95 |
| 31) Cyclohexane | 5.458 | 56 | 286312 | 116.934 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 295702 | 113.572 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 219731 | 116.462 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 274312 | 115.889 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 250916 | 115.760 | ug/l | 99 |
| 39) Methylcyclohexane | 7.373 | 83 | 286311 | 121.107 | ug/l | 97 |
| 40) Benzene | 6.031 | 78 | 642178 | 109.813 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.922 | 41 | 151424 | 115.139 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 271992 | 112.492 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.342 | 43 | 447871 | 123.780 | ug/l | | 100 |
| 44) Trichloroethene | 7.117 | 130 | 157641 | 114.032 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 164505 | 113.217 | ug/l | | 99 |
| 46) Dibromomethane | 7.574 | 93 | 125846 | 109.869 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 258326 | 116.365 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.690 | 41 | 231040 | 124.356 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.665 | 88 | 82800 | 2241.695 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 1371275 | 577.831 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 393323 | 113.430 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 257233 | 138.001 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 271054 | 124.658 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 154932 | 110.551 | ug/l | | 97 |
| 56) Ethyl methacrylate | 9.116 | 69 | 277921 | 127.968 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 272814 | 109.813 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.244 | 63 | 680608 | 697.344 | ug/l | | 100 |
| 59) 2-Hexanone | 9.433 | 43 | 1028597 | 571.094 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 187497 | 122.915 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 165634 | 115.087 | ug/l | | 97 |
| 64) Tetrachloroethene | 9.269 | 164 | 132488 | 100.918 | ug/l | | 96 |
| 65) Chlorobenzene | 10.080 | 112 | 429656 | 108.615 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 152173 | 115.333 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 785121 | 116.421 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 570913 | 234.349 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 279906 | 113.990 | ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 474254 | 120.694 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 125986 | 127.128 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 752337 | 114.312 | ug/l | | 99 |
| 74) N-amyl acetate | 10.842 | 43 | 396877 | 120.944 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 243532 | 104.018 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 213744m | 84.960 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 167934 | 110.297 | ug/l | | 99 |
| 78) n-propylbenzene | 11.305 | 91 | 881218 | 119.448 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 534560 | 107.514 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 616477 | 112.825 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 81372 | 134.609 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 611736 | 111.948 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 617473 | 115.065 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 623456 | 114.236 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 786293 | 118.023 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 651531 | 121.113 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 313100 | 110.394 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 311752 | 112.167 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 605783 | 129.533 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 123188 | 123.091 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 308039 | 111.506 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 64438 | 120.915 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 203255 | 134.366 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 80558 | 113.857 | ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 721236 | 130.929 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 200379 | 126.331 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

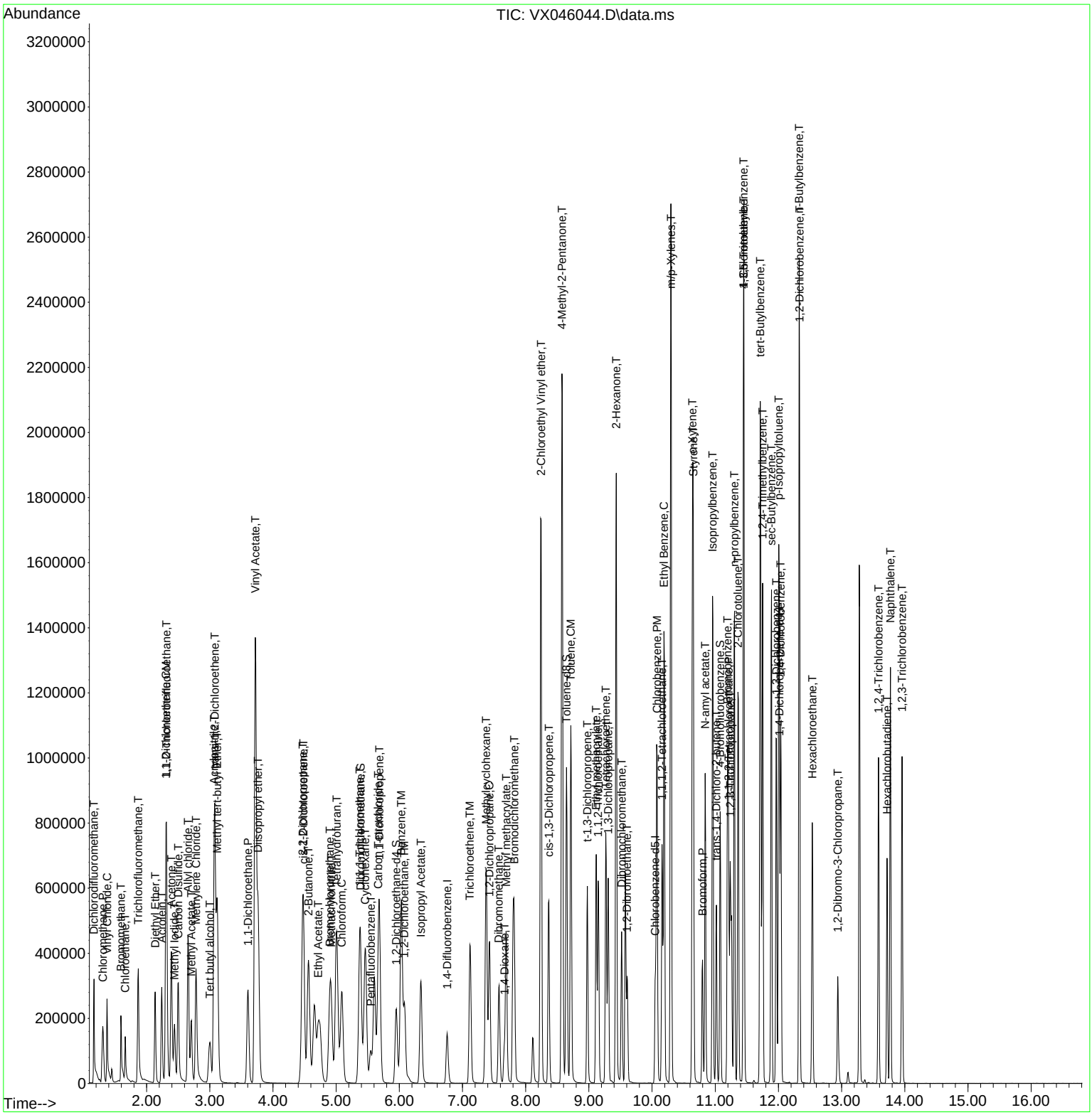
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 96964 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 168484 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 147167 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 67939 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 9067 | 3.143 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 6.280%# | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 5969 | 3.161 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 6.320%# | | |
| 50) Toluene-d8 | 8.647 | 98 | 20566 | 3.232 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 6.460%# | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 7822 | 3.378 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 6.760%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 6195 | 2.894 | ug/l | 95 |
| 3) Chloromethane | 1.307 | 50 | 6587 | 3.125 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 5999 | 3.249 | ug/l | 96 |
| 5) Bromomethane | 1.593 | 94 | 2962 | 3.164 | ug/l | 88 |
| 6) Chloroethane | 1.666 | 64 | 3567 | 3.750 | ug/l | 94 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 9599 | 3.413 | ug/l | 88 |
| 8) Diethyl Ether | 2.130 | 74 | 3020 | 3.266 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.325 | 101 | 5911 | 3.517 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 5900 | 2.990 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.965 | 59 | 5539 | 16.111 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 5496 | 3.359 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 5673 | 14.206 | ug/l | 95 |
| 14) Allyl chloride | 2.654 | 41 | 10262 | 3.319 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 16746 | 16.282 | ug/l | 97 |
| 16) Acetone | 2.380 | 43 | 19773 | 20.036 | ug/l | 98 |
| 17) Carbon Disulfide | 2.501 | 76 | 11068 | 2.919 | ug/l | 96 |
| 18) Methyl Acetate | 2.703 | 43 | 7909 | 3.357 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 18497 | 3.241 | ug/l | 97 |
| 20) Methylene Chloride | 2.782 | 84 | 6680 | 3.341 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 5402 | 3.234 | ug/l | 100 |
| 22) Diisopropyl ether | 3.751 | 45 | 18657 | 3.230 | ug/l # | 65 |
| 23) Vinyl Acetate | 3.715 | 43 | 82328 | 16.127 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 11193 | 3.297 | ug/l | 99 |
| 25) 2-Butanone | 4.562 | 43 | 26125 | 18.340 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 8245 | 3.205 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 6222 | 3.089 | ug/l | 95 |
| 28) Bromochloromethane | 4.891 | 49 | 5360 | 2.969 | ug/l # | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 15431 | 16.680 | ug/l | 98 |
| 30) Chloroform | 5.080 | 83 | 11624 | 3.294 | ug/l | 89 |
| 31) Cyclohexane | 5.458 | 56 | 10269 | 3.588 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 9827 | 3.229 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 7787 | 3.551 | ug/l | 98 |
| 37) Ethyl Acetate | 4.721 | 43 | 9806m | 3.565 | ug/l | |
| 38) Carbon Tetrachloride | 5.659 | 117 | 8505 | 3.376 | ug/l | 97 |
| 39) Methylcyclohexane | 7.373 | 83 | 9882 | 3.597 | ug/l | 93 |
| 40) Benzene | 6.031 | 78 | 22528 | 3.315 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 4851 | 3.174 | ug/l | # | 65 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 10011 | 3.563 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.348 | 43 | 13914 | 3.309 | ug/l | | 96 |
| 44) Trichloroethene | 7.123 | 130 | 5313 | 3.307 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 5451 | 3.228 | ug/l | # | 89 |
| 46) Dibromomethane | 7.580 | 93 | 4417 | 3.318 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.818 | 83 | 8394 | 3.254 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.696 | 41 | 7171 | 3.321 | ug/l | | 97 |
| 49) 1,4-Dioxane | 7.659 | 88 | 2907 | 67.721 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 46794 | 16.967 | ug/l | | 98 |
| 52) Toluene | 8.714 | 92 | 14126 | 3.505 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 6834 | 3.155 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 7908 | 3.129 | ug/l | | 91 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 5685 | 3.490 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 8555 | 3.390 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 10127 | 3.508 | ug/l | | 94 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 20809 | 18.346 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 34853 | 16.651 | ug/l | | 97 |
| 60) Dibromochloromethane | 9.518 | 129 | 5500 | 3.102 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 5614 | 3.356 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.269 | 164 | 4752 | 3.162 | ug/l | | 96 |
| 65) Chlorobenzene | 10.079 | 112 | 15391 | 3.399 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 5024 | 3.326 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.195 | 91 | 26732 | 3.463 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 19957 | 7.156 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 9398 | 3.343 | ug/l | | 95 |
| 70) Styrene | 10.652 | 104 | 14900 | 3.312 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 3470 | 3.059 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 24201 | 3.266 | ug/l | | 98 |
| 74) N-amyl acetate | 10.841 | 43 | 11224 | 3.038 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 9170 | 3.479 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 7928m | 2.799 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 5857 | 3.417 | ug/l | | 96 |
| 78) n-propylbenzene | 11.299 | 91 | 28436 | 3.424 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 18672 | 3.336 | ug/l | | 97 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 20742 | 3.372 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 1828 | 2.686 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 19966 | 3.245 | ug/l | | 98 |
| 83) tert-Butylbenzene | 11.713 | 119 | 21049 | 3.484 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 20613 | 3.355 | ug/l | | 97 |
| 85) sec-Butylbenzene | 11.890 | 105 | 25590 | 3.412 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 20955 | 3.460 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 10585 | 3.315 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 10908 | 3.486 | ug/l | | 90 |
| 89) n-Butylbenzene | 12.329 | 91 | 18004 | 3.419 | ug/l | | 94 |
| 90) Hexachloroethane | 12.536 | 117 | 3553 | 3.153 | ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 10712 | 3.444 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 1687 | 2.812 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 5720 | 3.359 | ug/l | | 96 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 2816 | 3.535 | ug/l | | 96 |
| 95) Naphthalene | 13.774 | 128 | 19902 | 3.209 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 5745 | 3.217 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

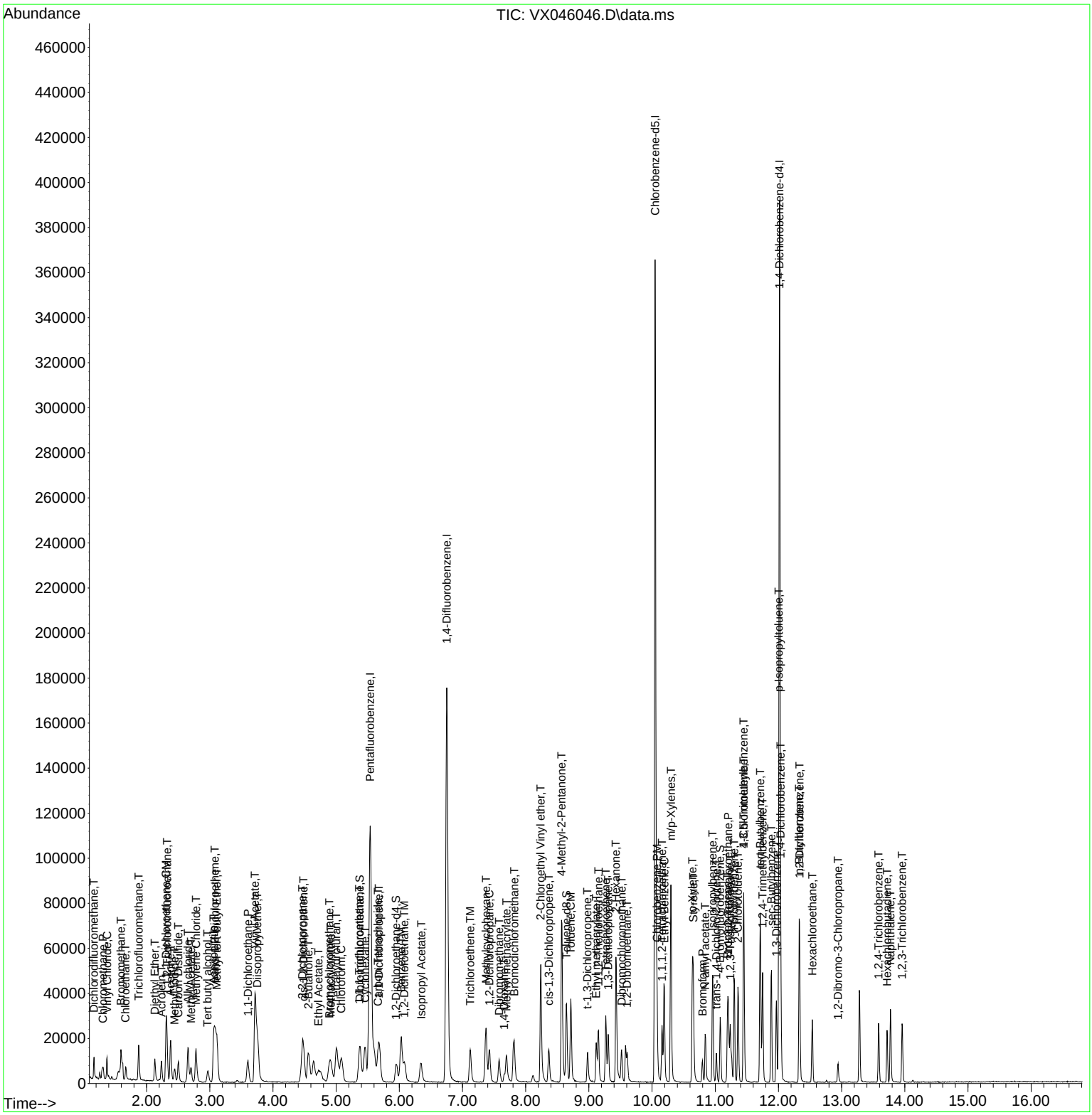
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 92040 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 167022 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 140108 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 59123 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 0.000 | 65 | 0d | 0.000 | ug/l | | |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 0.000%# | | | |
| 35) Dibromofluoromethane | 0.000 | 113 | 0d | 0.000 | ug/l | | |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 0.000%# | | | |
| 50) Toluene-d8 | 0.000 | 98 | 0d | 0.000 | ug/l | | |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 0.000%# | | | |
| 62) 4-Bromofluorobenzene | 0.000 | 95 | 0d | 0.000 | ug/l | | |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 0.000%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 1211 | 0.596 | ug/l | | 98 |
| 3) Chloromethane | 1.307 | 50 | 1278 | 0.639 | ug/l | | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 1239 | 0.707 | ug/l | # | 82 |
| 6) Chloroethane | 1.678 | 64 | 859 | 0.951 | ug/l | | 91 |
| 7) Trichlorofluoromethane | 1.880 | 101 | 1959 | 0.734 | ug/l | | 95 |
| 8) Diethyl Ether | 2.130 | 74 | 742 | 0.845 | ug/l | | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 1166 | 0.731 | ug/l | | 96 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 1093 | 0.704 | ug/l | # | 87 |
| 14) Allyl chloride | 2.654 | 41 | 1936 | 0.660 | ug/l | | 89 |
| 15) Acrylonitrile | 3.075 | 53 | 3343 | 3.424 | ug/l | | 98 |
| 16) Acetone | 2.380 | 43 | 3500 | 3.736 | ug/l | | 97 |
| 17) Carbon Disulfide | 2.508 | 76 | 2619 | 0.728 | ug/l | | 98 |
| 18) Methyl Acetate | 2.709 | 43 | 1852 | 0.828 | ug/l | | 98 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 3588 | 0.662 | ug/l | | 96 |
| 20) Methylene Chloride | 2.782 | 84 | 1571 | 0.828 | ug/l | # | 90 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 1111 | 0.701 | ug/l | # | 71 |
| 22) Diisopropyl ether | 3.757 | 45 | 3857 | 0.703 | ug/l | # | 26 |
| 23) Vinyl Acetate | 3.727 | 43 | 15283 | 3.154 | ug/l | | 96 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 2054 | 0.637 | ug/l | | 97 |
| 25) 2-Butanone | 4.593 | 43 | 4558 | 3.371 | ug/l | | 92 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 1777 | 0.728 | ug/l | | 84 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 1324 | 0.693 | ug/l | | 91 |
| 28) Bromochloromethane | 4.910 | 49 | 1061m | 0.619 | ug/l | | |
| 29) Tetrahydrofuran | 5.019 | 42 | 2931 | 3.338 | ug/l | | 99 |
| 30) Chloroform | 5.093 | 83 | 2328 | 0.695 | ug/l | | 98 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 1869 | 0.647 | ug/l | # | 51 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 1648 | 0.758 | ug/l | # | 83 |
| 37) Ethyl Acetate | 4.733 | 43 | 1956m | 0.717 | ug/l | | |
| 38) Carbon Tetrachloride | 5.678 | 117 | 1807 | 0.724 | ug/l | # | 78 |
| 39) Methylcyclohexane | 7.373 | 83 | 2096 | 0.770 | ug/l | | 97 |
| 40) Benzene | 6.044 | 78 | 4502 | 0.668 | ug/l | # | 89 |
| 41) Methacrylonitrile | 4.946 | 41 | 778 | 0.513 | ug/l | # | 56 |
| 42) 1,2-Dichloroethane | 6.092 | 62 | 1934 | 0.694 | ug/l | | 81 |
| 43) Isopropyl Acetate | 6.354 | 43 | 2553 | 0.612 | ug/l | # | 81 |
| 44) Trichloroethene | 7.135 | 130 | 1083 | 0.680 | ug/l | | 85 |
| 45) 1,2-Dichloropropane | 7.440 | 63 | 1059 | 0.633 | ug/l | | 89 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) Dibromomethane | 7.586 | 93 | 880 | 0.667 | ug/l | | 97 |
| 47) Bromodichloromethane | 7.818 | 83 | 1620 | 0.633 | ug/l | # | 91 |
| 48) Methyl methacrylate | 7.714 | 41 | 1235m | 0.577 | ug/l | | |
| 49) 1,4-Dioxane | 7.677 | 88 | 498 | 11.703 | ug/l | # | 66 |
| 51) 4-Methyl-2-Pentanone | 8.580 | 43 | 9378 | 3.430 | ug/l | | 97 |
| 52) Toluene | 8.720 | 92 | 2684 | 0.672 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 8.988 | 75 | 1238 | 0.576 | ug/l | # | 79 |
| 54) cis-1,3-Dichloropropene | 8.379 | 75 | 1414 | 0.564 | ug/l | # | 87 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 1029 | 0.637 | ug/l | | 92 |
| 56) Ethyl methacrylate | 9.128 | 69 | 1260 | 0.504 | ug/l | # | 76 |
| 57) 1,3-Dichloropropane | 9.311 | 76 | 2036 | 0.711 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 8.244 | 63 | 3846 | 3.420 | ug/l | | 94 |
| 59) 2-Hexanone | 9.439 | 43 | 6424 | 3.096 | ug/l | | 88 |
| 60) Dibromochloromethane | 9.525 | 129 | 1023 | 0.582 | ug/l | | 93 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 1077 | 0.650 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.275 | 164 | 972 | 0.679 | ug/l | | 95 |
| 65) Chlorobenzene | 10.079 | 112 | 3170 | 0.735 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 1035 | 0.720 | ug/l | # | 67 |
| 67) Ethyl Benzene | 10.195 | 91 | 5052 | 0.687 | ug/l | | 94 |
| 68) m/p-Xylenes | 10.299 | 106 | 3630 | 1.367 | ug/l | | 97 |
| 69) o-Xylene | 10.640 | 106 | 1799 | 0.672 | ug/l | | 94 |
| 70) Styrene | 10.659 | 104 | 2664 | 0.622 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 657 | 0.608 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.963 | 105 | 4480 | 0.695 | ug/l | | 96 |
| 74) N-amyl acetate | 10.854 | 43 | 2028 | 0.631 | ug/l | # | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 1835 | 0.800 | ug/l | | 94 |
| 76) 1,2,3-Trichloropropane | 11.244 | 75 | 1661m | 0.674 | ug/l | | |
| 77) Bromobenzene | 11.201 | 156 | 1095 | 0.734 | ug/l | | 96 |
| 78) n-propylbenzene | 11.305 | 91 | 5052 | 0.699 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 3765 | 0.773 | ug/l | | 94 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 3590 | 0.671 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 11.457 | 91 | 3815 | 0.713 | ug/l | | 97 |
| 83) tert-Butylbenzene | 11.713 | 119 | 3951 | 0.751 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 11.756 | 105 | 3725 | 0.697 | ug/l | | 97 |
| 85) sec-Butylbenzene | 11.890 | 105 | 4385 | 0.672 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 3577 | 0.679 | ug/l | | 94 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 1914 | 0.689 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 2149m | 0.789 | ug/l | | |
| 89) n-Butylbenzene | 12.335 | 91 | 2889 | 0.631 | ug/l | | 92 |
| 90) Hexachloroethane | 12.536 | 117 | 604 | 0.616 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.341 | 146 | 2022 | 0.747 | ug/l | | 95 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 306 | 0.586 | ug/l | | 83 |
| 93) 1,2,4-Trichlorobenzene | 13.591 | 180 | 1019 | 0.688 | ug/l | | 94 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 465 | 0.671 | ug/l | | 89 |
| 95) Naphthalene | 13.780 | 128 | 4138 | 0.767 | ug/l | | 97 |
| 96) 1,2,3-Trichlorobenzene | 13.963 | 180 | 1113 | 0.716 | ug/l | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

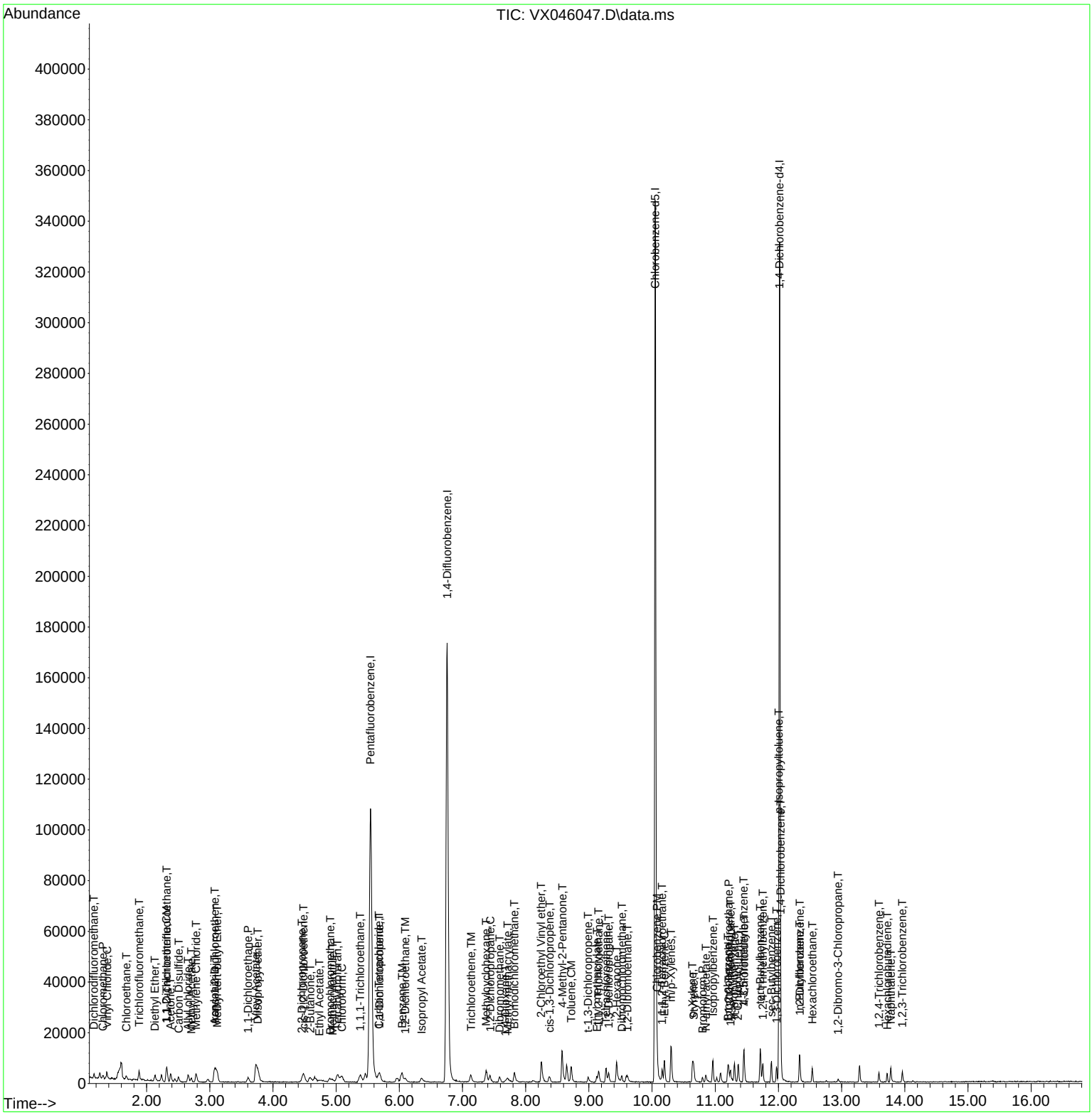
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 92588 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 162651 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 145078 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 68229 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 83733 | 48.509 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 97.020% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 58192 | 49.683 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.360% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 198575 | 48.984 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 97.960% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 75568 | 48.596 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 97.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.167 | 85 | 78783 | 55.594 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 72275 | 52.592 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 65994 | 51.598 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 30033 | 50.627 | ug/l | 97 |
| 6) Chloroethane | 1.666 | 64 | 35690 | 52.271 | ug/l | 94 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 99352 | 52.560 | ug/l | 99 |
| 8) Diethyl Ether | 2.130 | 74 | 31875 | 49.536 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 59451 | 50.822 | ug/l | 99 |
| 10) Methyl Iodide | 2.447 | 142 | 73940 | 53.419 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.977 | 59 | 61065 | 252.025 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 56097 | 51.097 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 64157 | 232.505 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 108757 | 51.833 | ug/l | 100 |
| 15) Acrylonitrile | 3.063 | 53 | 181808 | 262.412 | ug/l | 99 |
| 16) Acetone | 2.380 | 43 | 169923 | 245.518 | ug/l | 98 |
| 17) Carbon Disulfide | 2.502 | 76 | 132695 | 50.981 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 80251 | 49.968 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 195442 | 50.777 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 63369 | 47.779 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 55770 | 50.513 | ug/l | 99 |
| 22) Diisopropyl ether | 3.757 | 45 | 209946 | 51.800 | ug/l | 97 |
| 23) Vinyl Acetate | 3.715 | 43 | 946746 | 265.585 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 114733 | 50.825 | ug/l | 98 |
| 25) 2-Butanone | 4.556 | 43 | 258339 | 257.110 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 88229 | 49.934 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 67727 | 50.956 | ug/l | 100 |
| 28) Bromochloromethane | 4.891 | 49 | 55390 | 50.975 | ug/l | 98 |
| 29) Tetrahydrofuran | 5.001 | 42 | 163675 | 259.958 | ug/l | 99 |
| 30) Chloroform | 5.093 | 83 | 120782 | 51.332 | ug/l | 97 |
| 31) Cyclohexane | 5.458 | 56 | 103158 | 50.147 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 104243 | 51.108 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 77931 | 49.521 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 98604 | 50.714 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 88100 | 49.825 | ug/l | 97 |
| 39) Methylcyclohexane | 7.373 | 83 | 100808 | 49.757 | ug/l | 98 |
| 40) Benzene | 6.031 | 78 | 233977 | 50.759 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 56017 | 55.076 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 101185 | 50.861 | ug/l | | 98 |
| 43) Isopropyl Acetate | 6.336 | 43 | 154818 | 52.195 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 55491 | 50.018 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 59582 | 51.983 | ug/l | | 98 |
| 46) Dibromomethane | 7.580 | 93 | 45181 | 49.978 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 92388 | 51.889 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.690 | 41 | 82144 | 54.226 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.659 | 88 | 30477 | 1059.599 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 510206 | 259.133 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 144574 | 51.150 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 83751 | 52.920 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 92517 | 52.892 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 56713 | 50.887 | ug/l | | 96 |
| 56) Ethyl methacrylate | 9.116 | 69 | 95772 | 53.918 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 99663 | 49.793 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 240681 | 265.780 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 390701 | 268.218 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 63738 | 52.075 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 59134 | 51.050 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.269 | 164 | 48034 | 46.795 | ug/l | | 98 |
| 65) Chlorobenzene | 10.073 | 112 | 154640 | 48.699 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 53735 | 49.557 | ug/l | | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 281239 | 50.245 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 206813 | 101.022 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 101469 | 50.841 | ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 169703 | 51.907 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 40364 | 49.583 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 269484 | 50.733 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 137559 | 52.407 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 89027 | 47.827 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 79763m | 48.568 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 59871 | 48.549 | ug/l | | 98 |
| 78) n-propylbenzene | 11.299 | 91 | 312285 | 50.562 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 195630 | 49.107 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 228538 | 51.500 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 24857 | 49.276 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 223811 | 50.661 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 225783 | 50.511 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 231371 | 51.485 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 280578 | 51.122 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 231942 | 51.198 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.963 | 146 | 113146 | 50.272 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.037 | 146 | 111173 | 48.368 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 205858 | 51.804 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 39823 | 49.895 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 111482 | 49.361 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 21220 | 51.458 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 64421 | 49.662 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 27425 | 48.408 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 239805 | 50.404 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 64950 | 48.525 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

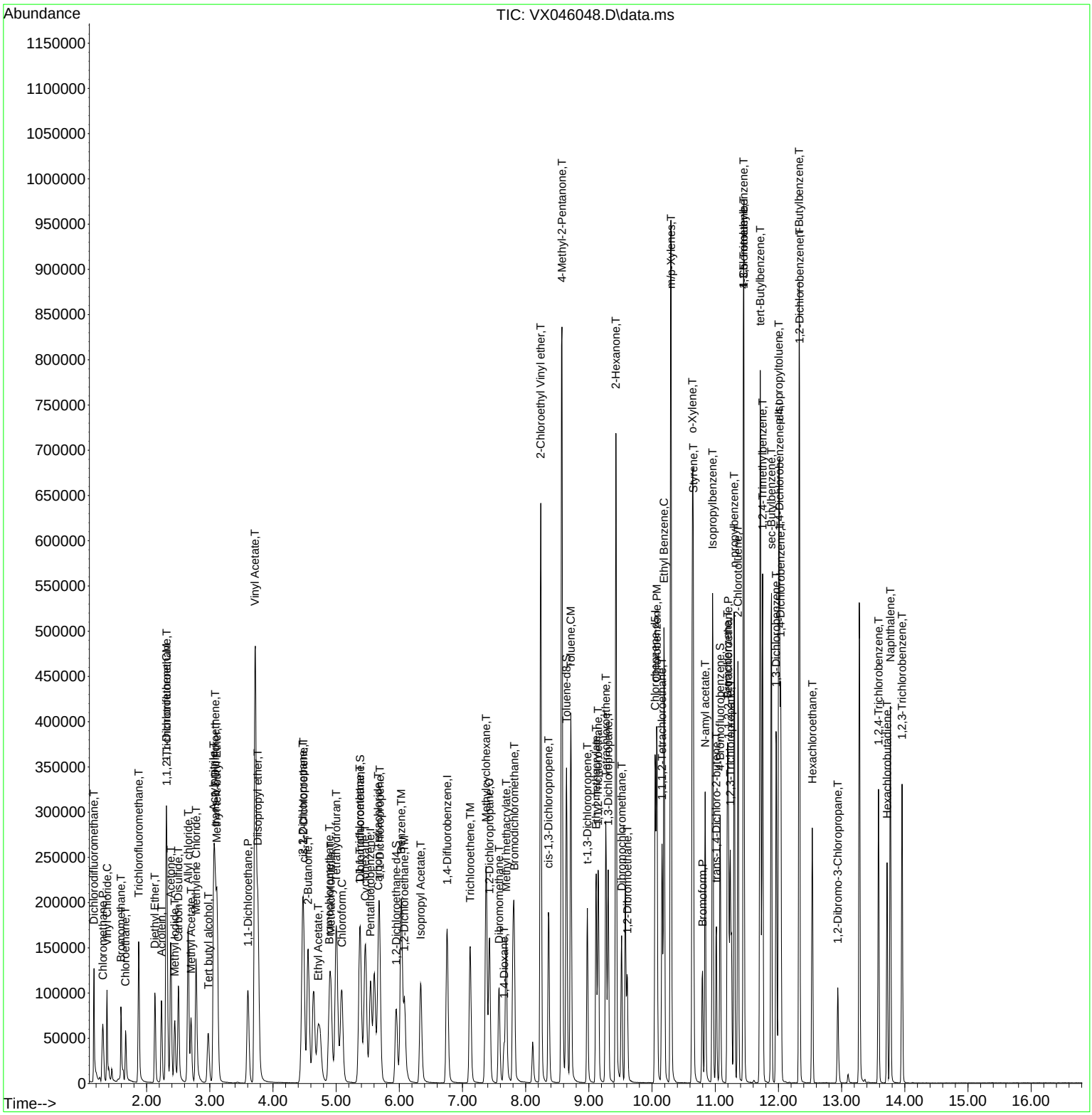
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.765 | 0.851 | -11.2 | 94 | 0.00 |
| 3 | P | Chloromethane | 0.742 | 0.781 | -5.3 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 0.691 | 0.713 | -3.2# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.320 | 0.324 | -1.3 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.369 | 0.385 | -4.3 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.021 | 1.073 | -5.1 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 0.347 | 0.344 | 0.9 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.642 | -1.6 | 96 | 0.00 |
| 10 | T | Methyl Iodide | 0.747 | 0.799 | -7.0 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.131 | 0.132 | -0.8 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.593 | 0.606 | -2.2# | 96 | 0.00 |
| 13 | T | Acrolein | 0.149 | 0.139 | 6.7 | 87 | 0.00 |
| 14 | T | Allyl chloride | 1.133 | 1.175 | -3.7 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 0.374 | 0.393 | -5.1 | 97 | 0.00 |
| 16 | T | Acetone | 0.374 | 0.367 | 1.9 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 1.406 | 1.433 | -1.9 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 0.867 | 0.867 | 0.0 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.079 | 2.111 | -1.5 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 0.716 | 0.684 | 4.5 | 95 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.596 | 0.602 | -1.0 | 94 | 0.00 |
| 22 | T | Diisopropyl ether | 2.189 | 2.268 | -3.6 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 1.925 | 2.045 | -6.2 | 95 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.219 | 1.239 | -1.6 | 94 | 0.00 |
| 25 | T | 2-Butanone | 0.543 | 0.558 | -2.8 | 96 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.954 | 0.953 | 0.1 | 95 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.718 | 0.731 | -1.8 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.587 | 0.598 | -1.9 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.340 | 0.354 | -4.1 | 96 | 0.00 |
| 30 | C | Chloroform | 1.271 | 1.305 | -2.7# | 96 | 0.00 |
| 31 | T | Cyclohexane | 1.111 | 1.114 | -0.3 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.101 | 1.126 | -2.3 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.932 | 0.904 | 3.0 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.360 | 0.358 | 0.6 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.484 | 0.479 | 1.0 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 0.598 | 0.606 | -1.3 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.544 | 0.542 | 0.4 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 0.623 | 0.620 | 0.5 | 94 | 0.00 |
| 40 | TM | Benzene | 1.417 | 1.439 | -1.6 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 0.313 | 0.344 | -9.9 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.612 | 0.622 | -1.6 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.912 | 0.952 | -4.4 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.341 | 0.0 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.352 | 0.366 | -4.0# | 96 | 0.00 |
| 46 | T | Dibromomethane | 0.278 | 0.278 | 0.0 | 94 | 0.00 |
| 47 | T | Bromodichloromethane | 0.547 | 0.568 | -3.8 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.466 | 0.505 | -8.4 | 97 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.009 | 0.009 | 0.0 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 1.246 | 1.221 | 2.0 | 97 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.605 | 0.627 | -3.6 | 96 | 0.00 |
| 52 | CM | Toluene | 0.869 | 0.889 | -2.3# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.487 | 0.515 | -5.7 | 94 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.538 | 0.569 | -5.8 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.343 | 0.349 | -1.7 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.546 | 0.589 | -7.9 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.615 | 0.613 | 0.3 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.278 | 0.296 | -6.5 | 93 | 0.00 |
| 59 | T | 2-Hexanone | 0.448 | 0.480 | -7.1 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 0.376 | 0.392 | -4.3 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.364 | -2.2 | 94 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.478 | 0.465 | 2.7 | 96 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.354 | 0.331 | 6.5 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 1.066 | 2.6 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.374 | 0.370 | 1.1 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 1.929 | 1.939 | -0.5# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.713 | -1.0 | 95 | 0.00 |
| 69 | T | o-Xylene | 0.688 | 0.699 | -1.6 | 95 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.170 | -3.8 | 95 | 0.00 |
| 71 | P | Bromoform | 0.281 | 0.278 | 1.1 | 91 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 3.893 | 3.950 | -1.5 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 1.924 | 2.016 | -4.8 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.364 | 1.305 | 4.3 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.204 | 1.169 | 2.9 | 99 | 0.00 |
| 77 | T | Bromobenzene | 0.904 | 0.878 | 2.9 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 4.526 | 4.577 | -1.1 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.919 | 2.867 | 1.8 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.252 | 3.350 | -3.0 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.370 | 0.364 | 1.6 | 95 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.238 | 3.280 | -1.3 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.276 | 3.309 | -1.0 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.293 | 3.391 | -3.0 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.022 | 4.112 | -2.2 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.320 | 3.399 | -2.4 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.649 | 1.658 | -0.5 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.684 | 1.629 | 3.3 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 2.912 | 3.017 | -3.6 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 0.585 | 0.584 | 0.2 | 94 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.655 | 1.634 | 1.3 | 97 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.311 | -3.0 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.951 | 0.944 | 0.7 | 97 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.415 | 0.402 | 3.1 | 95 | 0.00 |
| 95 | T | Naphthalene | 3.487 | 3.515 | -0.8 | 98 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.981 | 0.952 | 3.0 | 94 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 55.594 | -11.2 | 94 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 52.592 | -5.2 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.598 | -3.2# | 96 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 50.627 | -1.3 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 52.271 | -4.5 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 52.560 | -5.1 | 96 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.536 | 0.9 | 97 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 50.822 | -1.6 | 96 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 53.419 | -6.8 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 252.025 | -0.8 | 98 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.097 | -2.2# | 96 | 0.00 |
| 13 | T | Acrolein | 250.000 | 232.505 | 7.0 | 87 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.833 | -3.7 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 262.412 | -5.0 | 97 | 0.00 |
| 16 | T | Acetone | 250.000 | 245.518 | 1.8 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.981 | -2.0 | 94 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 49.968 | 0.1 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.777 | -1.6 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.779 | 4.4 | 95 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.513 | -1.0 | 94 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 51.800 | -3.6 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 265.585 | -6.2 | 95 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.825 | -1.7 | 94 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 257.110 | -2.8 | 96 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 49.934 | 0.1 | 95 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.956 | -1.9 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.975 | -2.0 | 99 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 259.958 | -4.0 | 96 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.332 | -2.7# | 96 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.147 | -0.3 | 94 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.108 | -2.2 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 48.509 | 3.0 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.683 | 0.6 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.521 | 1.0 | 94 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.714 | -1.4 | 96 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 49.825 | 0.3 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.757 | 0.5 | 94 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.759 | -1.5 | 95 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.076 | -10.2 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.861 | -1.7 | 96 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.195 | -4.4 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.018 | -0.0 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.983 | -4.0# | 96 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.978 | 0.0 | 94 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.889 | -3.8 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 54.226 | -8.5 | 97 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1059.599 | -6.0 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.984 | 2.0 | 97 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 259.133 | -3.7 | 96 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.150 | -2.3# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.920 | -5.8 | 94 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.892 | -5.8 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.887 | -1.8 | 95 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.918 | -7.8 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.793 | 0.4 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 265.780 | -6.3 | 93 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 268.218 | -7.3 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.075 | -4.2 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.050 | -2.1 | 94 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 48.596 | 2.8 | 96 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.795 | 6.4 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.699 | 2.6 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.557 | 0.9 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.245 | -0.5# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.022 | -1.0 | 95 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.841 | -1.7 | 95 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.907 | -3.8 | 95 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.583 | 0.8 | 91 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.733 | -1.5 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.407 | -4.8 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.827 | 4.3 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.568 | 2.9 | 99 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.549 | 2.9 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.562 | -1.1 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.107 | 1.8 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.500 | -3.0 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.276 | 1.4 | 95 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.661 | -1.3 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.511 | -1.0 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.485 | -3.0 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.122 | -2.2 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.198 | -2.4 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.272 | -0.5 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.368 | 3.3 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.804 | -3.6 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.895 | 0.2 | 94 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.361 | 1.3 | 97 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.458 | -2.9 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 49.662 | 0.7 | 97 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.408 | 3.2 | 95 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.404 | -0.8 | 98 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.525 | 3.0 | 94 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX046102.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG No.: Q1993

Instrument ID: MSVOA_X Calibration Date/Time: 05/09/2025 10:05

Lab File ID: VX046102.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Chloromethane | 0.742 | 0.714 | 0.1 | -3.77 | 20 |
| Vinyl Chloride | 0.691 | 0.644 | | -6.8 | 20 |
| Bromomethane | 0.320 | 0.287 | | -10.31 | 20 |
| Chloroethane | 0.369 | 0.344 | | -6.78 | 20 |
| 1,1-Dichloroethene | 0.593 | 0.531 | | -10.45 | 20 |
| Acetone | 0.374 | 0.333 | | -10.96 | 20 |
| Carbon Disulfide | 1.406 | 1.316 | | -6.4 | 20 |
| Methyl tert-butyl Ether | 2.079 | 1.920 | | -7.65 | 20 |
| Methylene Chloride | 0.716 | 0.619 | | -13.55 | 20 |
| trans-1,2-Dichloroethene | 0.596 | 0.535 | | -10.23 | 20 |
| 1,1-Dichloroethane | 1.219 | 1.127 | 0.1 | -7.55 | 20 |
| 2-Butanone | 0.543 | 0.495 | | -8.84 | 20 |
| Carbon Tetrachloride | 0.544 | 0.514 | | -5.51 | 20 |
| cis-1,2-Dichloroethene | 0.718 | 0.655 | | -8.77 | 20 |
| Chloroform | 1.271 | 1.169 | | -8.02 | 20 |
| 1,1,1-Trichloroethane | 1.101 | 1.023 | | -7.08 | 20 |
| Benzene | 1.417 | 1.319 | | -6.92 | 20 |
| 1,2-Dichloroethane | 0.612 | 0.573 | | -6.37 | 20 |
| Trichloroethene | 0.341 | 0.324 | | -4.99 | 20 |
| 1,2-Dichloropropane | 0.352 | 0.338 | | -3.98 | 20 |
| Bromodichloromethane | 0.547 | 0.537 | | -1.83 | 20 |
| 4-Methyl-2-Pentanone | 0.605 | 0.573 | | -5.29 | 20 |
| Toluene | 0.869 | 0.815 | | -6.21 | 20 |
| t-1,3-Dichloropropene | 0.487 | 0.475 | | -2.46 | 20 |
| cis-1,3-Dichloropropene | 0.538 | 0.532 | | -1.12 | 20 |
| 1,1,2-Trichloroethane | 0.343 | 0.315 | | -8.16 | 20 |
| 2-Hexanone | 0.448 | 0.424 | | -5.36 | 20 |
| Dibromochloromethane | 0.376 | 0.375 | | -0.27 | 20 |
| Tetrachloroethene | 0.354 | 0.328 | | -7.34 | 20 |
| Chlorobenzene | 1.094 | 0.988 | 0.3 | -9.69 | 20 |
| Ethyl Benzene | 1.929 | 1.818 | | -5.75 | 20 |
| m/p-Xylenes | 0.706 | 0.662 | | -6.23 | 20 |
| o-Xylene | 0.688 | 0.641 | | -6.83 | 20 |
| Styrene | 1.127 | 1.086 | | -3.64 | 20 |
| Bromoform | 0.281 | 0.269 | 0.1 | -4.27 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.364 | 1.211 | 0.3 | -11.22 | 20 |
| 1,2-Dichloroethane-d4 | 0.932 | 0.924 | | -0.86 | 20 |
| Dibromofluoromethane | 0.360 | 0.377 | | 4.72 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG No.: Q1993

Instrument ID: MSVOA_X Calibration Date/Time: 05/09/2025 10:05

Lab File ID: VX046102.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Toluene-d8 | 1.246 | 1.280 | | 2.73 | 20 |
| 4-Bromofluorobenzene | 0.478 | 0.492 | | 2.93 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 90819 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 154646 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 135275 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 64593 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 83904 | 49.555 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 99.100% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 58232 | 52.291 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 104.580% | | | |
| 50) Toluene-d8 | 8.641 | 98 | 197959 | 51.360 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 102.720% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 76110 | 51.479 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.960% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 70327 | 50.593 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 64874 | 48.126 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 58467 | 46.603 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 26052 | 44.771 | ug/l | 98 |
| 6) Chloroethane | 1.666 | 64 | 31251 | 46.661 | ug/l | 97 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 87272 | 47.069 | ug/l | 97 |
| 8) Diethyl Ether | 2.130 | 74 | 27804 | 44.051 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 52929 | 46.128 | ug/l | 99 |
| 10) Methyl Iodide | 2.447 | 142 | 61952 | 45.630 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.977 | 59 | 51554 | 216.916 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 48200 | 44.759 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 95346 | 352.264 | ug/l | 98 |
| 14) Allyl chloride | 2.654 | 41 | 97537 | 47.391 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 155424 | 228.700 | ug/l | 98 |
| 16) Acetone | 2.380 | 43 | 151168 | 222.674 | ug/l | 100 |
| 17) Carbon Disulfide | 2.501 | 76 | 119490 | 46.802 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 73470 | 46.637 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 174356 | 46.181 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 56204 | 43.202 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 48550 | 44.830 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 183349 | 46.119 | ug/l | 97 |
| 23) Vinyl Acetate | 3.715 | 43 | 819744 | 234.437 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 102333 | 46.215 | ug/l | 99 |
| 25) 2-Butanone | 4.550 | 43 | 224557 | 227.842 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 79815 | 46.052 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 59523 | 45.656 | ug/l | 99 |
| 28) Bromochloromethane | 4.885 | 49 | 52743 | 49.484 | ug/l | 99 |
| 29) Tetrahydrofuran | 5.001 | 42 | 139063 | 225.170 | ug/l | 99 |
| 30) Chloroform | 5.086 | 83 | 106204 | 46.016 | ug/l | 97 |
| 31) Cyclohexane | 5.458 | 56 | 90103 | 44.654 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 92916 | 46.442 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 67721 | 45.260 | ug/l | 98 |
| 37) Ethyl Acetate | 4.708 | 43 | 85521 | 46.262 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 79494 | 47.285 | ug/l | 99 |
| 39) Methylcyclohexane | 7.373 | 83 | 87280 | 45.310 | ug/l | 95 |
| 40) Benzene | 6.025 | 78 | 203956 | 46.537 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 47525 | 49.145 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 88615 | 46.849 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 133527 | 47.347 | ug/l | | 99 |
| 44) Trichloroethene | 7.117 | 130 | 50158 | 47.551 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 52345 | 48.033 | ug/l | | 99 |
| 46) Dibromomethane | 7.574 | 93 | 40032 | 46.575 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.811 | 83 | 83005 | 49.032 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.690 | 41 | 69338 | 48.142 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 25409 | 929.126 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 442789 | 236.533 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 126108 | 46.926 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 73479 | 48.832 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 82288 | 49.479 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 48739 | 45.996 | ug/l | | 97 |
| 56) Ethyl methacrylate | 9.110 | 69 | 81826 | 48.451 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 86269 | 45.332 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 227616 | 264.363 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 327764 | 236.658 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 58018 | 49.855 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 51865 | 47.092 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.269 | 164 | 44313 | 46.298 | ug/l | | 97 |
| 65) Chlorobenzene | 10.073 | 112 | 133595 | 45.121 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 47203 | 46.688 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 245866 | 47.108 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 178978 | 93.761 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 86732 | 46.606 | ug/l | | 97 |
| 70) Styrene | 10.652 | 104 | 146931 | 48.198 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 36439 | 48.005 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 236631 | 47.056 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 117355 | 47.227 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 78192 | 44.371 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 68877m | 44.300 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 53064 | 45.451 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 273944 | 46.851 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 169747 | 45.009 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.445 | 105 | 197809 | 47.084 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.012 | 75 | 21533 | 45.090 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 195179 | 46.667 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 194507 | 45.963 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 200678 | 47.169 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 245530 | 47.255 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 204887 | 47.772 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.963 | 146 | 97397 | 45.711 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 97674 | 44.887 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 184440 | 49.026 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 35733 | 47.291 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.329 | 146 | 97200 | 45.460 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 19088 | 48.894 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 57281 | 46.643 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 25977 | 48.433 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 204290 | 45.356 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 57889 | 45.684 | ug/l | | 99 |

Sample Results: **VX046102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

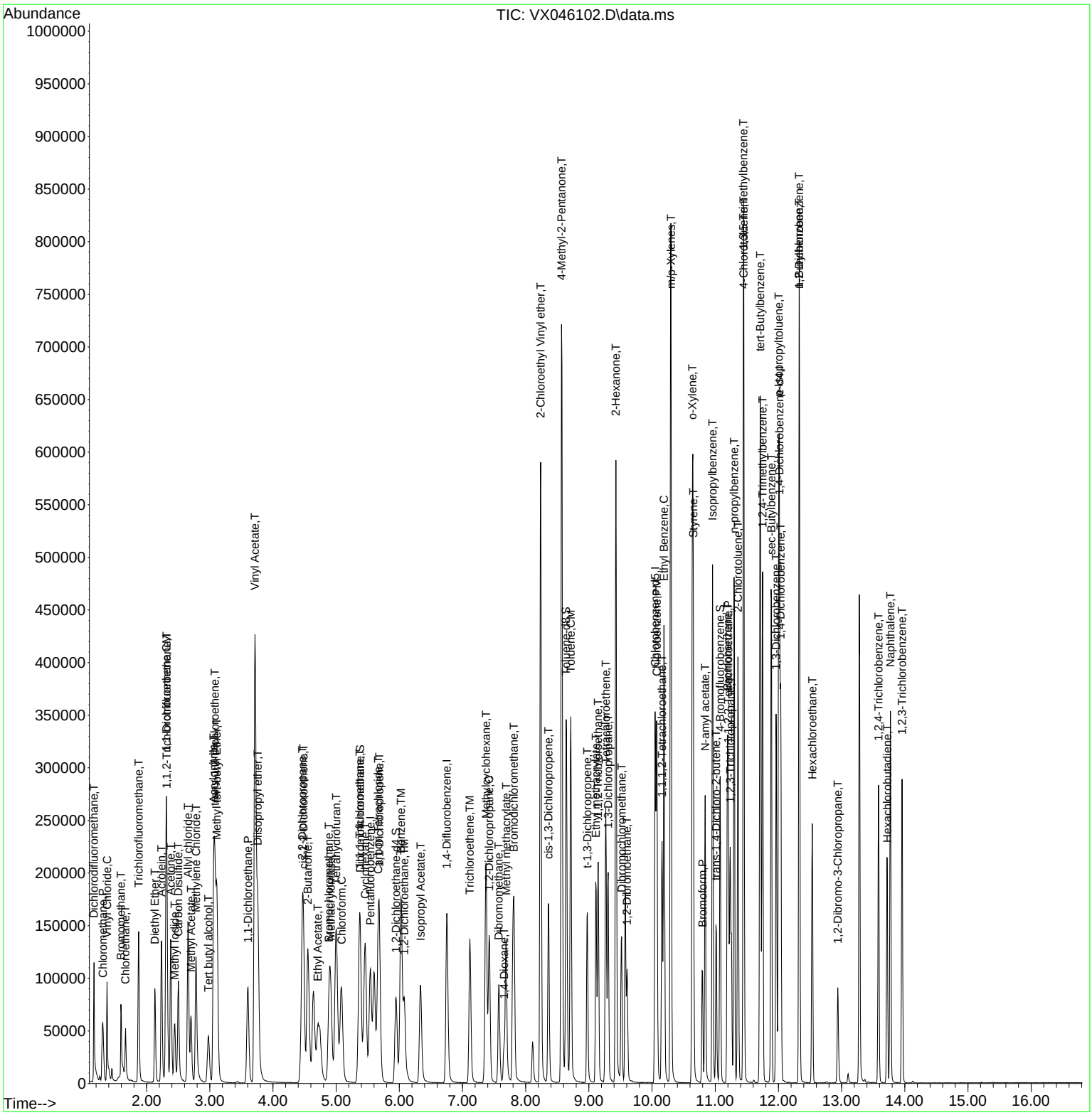
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025



Sample Results: **VX046102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.765 | 0.774 | -1.2 | 84 | 0.00 |
| 3 | P | Chloromethane | 0.742 | 0.714 | 3.8 | 86 | 0.00 |
| 4 | C | Vinyl Chloride | 0.691 | 0.644 | 6.8# | 85 | 0.00 |
| 5 | T | Bromomethane | 0.320 | 0.287 | 10.3 | 82 | 0.00 |
| 6 | T | Chloroethane | 0.369 | 0.344 | 6.8 | 85 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.021 | 0.961 | 5.9 | 84 | 0.00 |
| 8 | T | Diethyl Ether | 0.347 | 0.306 | 11.8 | 85 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.583 | 7.8 | 85 | 0.00 |
| 10 | T | Methyl Iodide | 0.747 | 0.682 | 8.7 | 79 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.131 | 0.114 | 13.0 | 82 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.593 | 0.531 | 10.5# | 83 | 0.00 |
| 13 | T | Acrolein | 0.149 | 0.210 | -40.9# | 129 | 0.00 |
| 14 | T | Allyl chloride | 1.133 | 1.074 | 5.2 | 85 | 0.00 |
| 15 | T | Acrylonitrile | 0.374 | 0.342 | 8.6 | 83 | 0.00 |
| 16 | T | Acetone | 0.374 | 0.333 | 11.0 | 86 | 0.00 |
| 17 | T | Carbon Disulfide | 1.406 | 1.316 | 6.4 | 85 | 0.00 |
| 18 | T | Methyl Acetate | 0.867 | 0.809 | 6.7 | 89 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.079 | 1.920 | 7.6 | 83 | 0.00 |
| 20 | T | Methylene Chloride | 0.716 | 0.619 | 13.5 | 85 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.596 | 0.535 | 10.2 | 82 | 0.00 |
| 22 | T | Diisopropyl ether | 2.189 | 2.019 | 7.8 | 83 | 0.00 |
| 23 | T | Vinyl Acetate | 1.925 | 1.805 | 6.2 | 82 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.219 | 1.127 | 7.5 | 83 | 0.00 |
| 25 | T | 2-Butanone | 0.543 | 0.495 | 8.8 | 83 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.954 | 0.879 | 7.9 | 86 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.718 | 0.655 | 8.8 | 83 | 0.00 |
| 28 | T | Bromochloromethane | 0.587 | 0.581 | 1.0 | 94 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.340 | 0.306 | 10.0 | 82 | 0.00 |
| 30 | C | Chloroform | 1.271 | 1.169 | 8.0# | 84 | 0.00 |
| 31 | T | Cyclohexane | 1.111 | 0.992 | 10.7 | 82 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.101 | 1.023 | 7.1 | 85 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.932 | 0.924 | 0.9 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.360 | 0.377 | -4.7 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.484 | 0.438 | 9.5 | 81 | 0.00 |
| 37 | T | Ethyl Acetate | 0.598 | 0.553 | 7.5 | 83 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.544 | 0.514 | 5.5 | 85 | 0.00 |
| 39 | T | Methylcyclohexane | 0.623 | 0.564 | 9.5 | 81 | 0.00 |
| 40 | TM | Benzene | 1.417 | 1.319 | 6.9 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 0.313 | 0.307 | 1.9 | 82 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.612 | 0.573 | 6.4 | 84 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.912 | 0.863 | 5.4 | 83 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.324 | 5.0 | 84 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.352 | 0.338 | 4.0# | 84 | 0.00 |
| 46 | T | Dibromomethane | 0.278 | 0.259 | 6.8 | 83 | 0.00 |
| 47 | T | Bromodichloromethane | 0.547 | 0.537 | 1.8 | 86 | 0.00 |
| 48 | T | Methyl methacrylate | 0.466 | 0.448 | 3.9 | 82 | 0.00 |

Sample Results: **VX046102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.009 | 0.008 | 11.1 | 83 | 0.00 |
| 50 | S | Toluene-d8 | 1.246 | 1.280 | -2.7 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.605 | 0.573 | 5.3 | 83 | 0.00 |
| 52 | CM | Toluene | 0.869 | 0.815 | 6.2# | 84 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.487 | 0.475 | 2.5 | 83 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.538 | 0.532 | 1.1 | 85 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.343 | 0.315 | 8.2 | 82 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.546 | 0.529 | 3.1 | 82 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.615 | 0.558 | 9.3 | 82 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.278 | 0.294 | -5.8 | 88 | 0.00 |
| 59 | T | 2-Hexanone | 0.448 | 0.424 | 5.4 | 83 | 0.00 |
| 60 | T | Dibromochloromethane | 0.376 | 0.375 | 0.3 | 86 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.335 | 5.9 | 83 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.478 | 0.492 | -2.9 | 96 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 0.354 | 0.328 | 7.3 | 81 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 0.988 | 9.7 | 83 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.374 | 0.349 | 6.7 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 1.929 | 1.818 | 5.8# | 83 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.662 | 6.2 | 83 | 0.00 |
| 69 | T | o-Xylene | 0.688 | 0.641 | 6.8 | 82 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.086 | 3.6 | 82 | 0.00 |
| 71 | P | Bromoform | 0.281 | 0.269 | 4.3 | 82 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 3.893 | 3.663 | 5.9 | 84 | 0.00 |
| 74 | T | N-amyl acetate | 1.924 | 1.817 | 5.6 | 84 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.364 | 1.211 | 11.2 | 86 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.204 | 1.066 | 11.5 | 85 | 0.00 |
| 77 | T | Bromobenzene | 0.904 | 0.822 | 9.1 | 84 | 0.00 |
| 78 | T | n-propylbenzene | 4.526 | 4.241 | 6.3 | 83 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.919 | 2.628 | 10.0 | 83 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.252 | 3.062 | 5.8 | 83 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.370 | 0.333 | 10.0 | 82 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.238 | 3.022 | 6.7 | 84 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.276 | 3.011 | 8.1 | 83 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.293 | 3.107 | 5.6 | 84 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.022 | 3.801 | 5.5 | 84 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.320 | 3.172 | 4.5 | 85 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.649 | 1.508 | 8.6 | 84 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.684 | 1.512 | 10.2 | 85 | 0.00 |
| 89 | T | n-Butylbenzene | 2.912 | 2.855 | 2.0 | 86 | 0.00 |
| 90 | T | Hexachloroethane | 0.585 | 0.553 | 5.5 | 84 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.655 | 1.505 | 9.1 | 84 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.296 | 2.0 | 87 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.951 | 0.887 | 6.7 | 86 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.415 | 0.402 | 3.1 | 90 | 0.00 |
| 95 | T | Naphthalene | 3.487 | 3.163 | 9.3 | 83 | 0.00 |

Sample Results: **VX046102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.981 | 0.896 | 8.7 | 84 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VX046102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 50.593 | -1.2 | 84 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.126 | 3.7 | 86 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 46.603 | 6.8# | 85 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 44.771 | 10.5 | 82 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 46.661 | 6.7 | 85 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.069 | 5.9 | 84 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 44.051 | 11.9 | 85 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 46.128 | 7.7 | 85 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 45.630 | 8.7 | 79 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 216.916 | 13.2 | 82 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 44.759 | 10.5# | 83 | 0.00 |
| 13 | T | Acrolein | 250.000 | 352.264 | -40.9# | 129 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 47.391 | 5.2 | 85 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 228.700 | 8.5 | 83 | 0.00 |
| 16 | T | Acetone | 250.000 | 222.674 | 10.9 | 86 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.802 | 6.4 | 85 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 46.637 | 6.7 | 89 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 46.181 | 7.6 | 83 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 43.202 | 13.6 | 85 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 44.830 | 10.3 | 82 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 46.119 | 7.8 | 83 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 234.437 | 6.2 | 82 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 46.215 | 7.6 | 83 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 227.842 | 8.9 | 83 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 46.052 | 7.9 | 86 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 45.656 | 8.7 | 83 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.484 | 1.0 | 94 | -0.01 |
| 29 | T | Tetrahydrofuran | 250.000 | 225.170 | 9.9 | 82 | 0.00 |
| 30 | C | Chloroform | 50.000 | 46.016 | 8.0# | 84 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 44.654 | 10.7 | 82 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 46.442 | 7.1 | 85 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.555 | 0.9 | 95 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 52.291 | -4.6 | 98 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 45.260 | 9.5 | 81 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 46.262 | 7.5 | 83 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 47.285 | 5.4 | 85 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 45.310 | 9.4 | 81 | 0.00 |
| 40 | TM | Benzene | 50.000 | 46.537 | 6.9 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 49.145 | 1.7 | 82 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.849 | 6.3 | 84 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 47.347 | 5.3 | 83 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 47.551 | 4.9 | 84 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 48.033 | 3.9# | 84 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 46.575 | 6.8 | 83 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.032 | 1.9 | 86 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 48.142 | 3.7 | 82 | 0.00 |

Sample Results: **VX046102.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 929.126 | 7.1 | 83 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.360 | -2.7 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 236.533 | 5.4 | 83 | 0.00 |
| 52 | CM | Toluene | 50.000 | 46.926 | 6.1# | 84 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 48.832 | 2.3 | 83 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 49.479 | 1.0 | 85 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 45.996 | 8.0 | 82 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 48.451 | 3.1 | 82 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 45.332 | 9.3 | 82 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 264.363 | -5.7 | 88 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 236.658 | 5.3 | 83 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 49.855 | 0.3 | 86 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.092 | 5.8 | 83 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.479 | -3.0 | 96 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.298 | 7.4 | 81 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 45.121 | 9.8 | 83 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 46.688 | 6.6 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 47.108 | 5.8# | 83 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 93.761 | 6.2 | 83 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 46.606 | 6.8 | 82 | 0.00 |
| 70 | T | Styrene | 50.000 | 48.198 | 3.6 | 82 | 0.00 |
| 71 | P | Bromoform | 50.000 | 48.005 | 4.0 | 82 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 47.056 | 5.9 | 84 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 47.227 | 5.5 | 84 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 44.371 | 11.3 | 86 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 44.300 | 11.4 | 85 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 45.451 | 9.1 | 84 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 46.851 | 6.3 | 83 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 45.009 | 10.0 | 83 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 47.084 | 5.8 | 83 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 45.090 | 9.8 | 82 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 46.667 | 6.7 | 84 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 45.963 | 8.1 | 83 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 47.169 | 5.7 | 84 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 47.255 | 5.5 | 84 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 47.772 | 4.5 | 85 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 45.711 | 8.6 | 84 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 44.887 | 10.2 | 85 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.026 | 1.9 | 86 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 47.291 | 5.4 | 84 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 45.460 | 9.1 | 84 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.894 | 2.2 | 87 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 46.643 | 6.7 | 86 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.433 | 3.1 | 90 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 45.356 | 9.3 | 83 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046102.D
Acq On : 09 May 2025 10:05
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 09 23:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 45.684 | 8.6 | 84 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX046153.D**

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG No.: Q1993

Instrument ID: MSVOA_X Calibration Date/Time: 05/13/2025 10:00

Lab File ID: VX046153.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Chloromethane | 0.742 | 0.751 | 0.1 | 1.21 | 20 |
| Vinyl Chloride | 0.691 | 0.696 | | 0.72 | 20 |
| Bromomethane | 0.320 | 0.304 | | -5 | 20 |
| Chloroethane | 0.369 | 0.375 | | 1.63 | 20 |
| 1,1-Dichloroethene | 0.593 | 0.578 | | -2.53 | 20 |
| Acetone | 0.374 | 0.410 | | 9.63 | 20 |
| Carbon Disulfide | 1.406 | 1.375 | | -2.2 | 20 |
| Methyl tert-butyl Ether | 2.079 | 2.132 | | 2.55 | 20 |
| Methylene Chloride | 0.716 | 0.668 | | -6.7 | 20 |
| trans-1,2-Dichloroethene | 0.596 | 0.589 | | -1.17 | 20 |
| 1,1-Dichloroethane | 1.219 | 1.231 | 0.1 | 0.98 | 20 |
| 2-Butanone | 0.543 | 0.561 | | 3.32 | 20 |
| Carbon Tetrachloride | 0.544 | 0.574 | | 5.51 | 20 |
| cis-1,2-Dichloroethene | 0.718 | 0.715 | | -0.42 | 20 |
| Chloroform | 1.271 | 1.300 | | 2.28 | 20 |
| 1,1,1-Trichloroethane | 1.101 | 1.117 | | 1.45 | 20 |
| Benzene | 1.417 | 1.440 | | 1.62 | 20 |
| 1,2-Dichloroethane | 0.612 | 0.625 | | 2.12 | 20 |
| Trichloroethene | 0.341 | 0.344 | | 0.88 | 20 |
| 1,2-Dichloropropane | 0.352 | 0.370 | | 5.11 | 20 |
| Bromodichloromethane | 0.547 | 0.588 | | 7.49 | 20 |
| 4-Methyl-2-Pentanone | 0.605 | 0.632 | | 4.46 | 20 |
| Toluene | 0.869 | 0.884 | | 1.73 | 20 |
| t-1,3-Dichloropropene | 0.487 | 0.532 | | 9.24 | 20 |
| cis-1,3-Dichloropropene | 0.538 | 0.581 | | 7.99 | 20 |
| 1,1,2-Trichloroethane | 0.343 | 0.351 | | 2.33 | 20 |
| 2-Hexanone | 0.448 | 0.467 | | 4.24 | 20 |
| Dibromochloromethane | 0.376 | 0.418 | | 11.17 | 20 |
| Tetrachloroethene | 0.354 | 0.368 | | 3.95 | 20 |
| Chlorobenzene | 1.094 | 1.091 | 0.3 | -0.27 | 20 |
| Ethyl Benzene | 1.929 | 1.981 | | 2.7 | 20 |
| m/p-Xylenes | 0.706 | 0.736 | | 4.25 | 20 |
| o-Xylene | 0.688 | 0.715 | | 3.92 | 20 |
| Styrene | 1.127 | 1.209 | | 7.28 | 20 |
| Bromoform | 0.281 | 0.307 | 0.1 | 9.25 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.364 | 1.283 | 0.3 | -5.94 | 20 |
| 1,2-Dichloroethane-d4 | 0.932 | 0.899 | | -3.54 | 20 |
| Dibromofluoromethane | 0.360 | 0.371 | | 3.06 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VX046153.D**

Alliance TECHNICAL GROUP

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG No.: Q1993

Instrument ID: MSVOA_X Calibration Date/Time: 05/13/2025 10:00

Lab File ID: VX046153.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Toluene-d8 | 1.246 | 1.236 | | -0.8 | 20 |
| 4-Bromofluorobenzene | 0.478 | 0.484 | | 1.25 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.543 | 168 | 98502 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.750 | 114 | 167387 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 146749 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 70437 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 88548 | 48.218 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 96.440% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 62082 | 51.505 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 103.000% | | | |
| 50) Toluene-d8 | 8.640 | 98 | 206879 | 49.588 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 99.180% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 80981 | 50.604 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 101.200% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 82665 | 54.831 | ug/l | 98 |
| 3) Chloromethane | 1.306 | 50 | 73977 | 50.599 | ug/l | 99 |
| 4) Vinyl Chloride | 1.373 | 62 | 68541 | 50.372 | ug/l | 99 |
| 5) Bromomethane | 1.593 | 94 | 29973 | 47.492 | ug/l | 98 |
| 6) Chloroethane | 1.666 | 64 | 36911 | 50.814 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.873 | 101 | 104977 | 52.202 | ug/l | 100 |
| 8) Diethyl Ether | 2.129 | 74 | 33662 | 49.172 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.318 | 101 | 64320 | 51.683 | ug/l | 98 |
| 10) Methyl Iodide | 2.446 | 142 | 70924 | 48.163 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.971 | 59 | 62867 | 243.884 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 56910 | 48.725 | ug/l | 96 |
| 13) Acrolein | 2.233 | 56 | 83810 | 285.492 | ug/l | 99 |
| 14) Allyl chloride | 2.654 | 41 | 115482 | 51.734 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 189375 | 256.923 | ug/l | 99 |
| 16) Acetone | 2.379 | 43 | 201897 | 274.202 | ug/l | 99 |
| 17) Carbon Disulfide | 2.501 | 76 | 135470 | 48.923 | ug/l | 99 |
| 18) Methyl Acetate | 2.702 | 43 | 91348 | 53.463 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 209959 | 51.273 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 65777 | 46.617 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.086 | 96 | 58057 | 49.427 | ug/l | 99 |
| 22) Diisopropyl ether | 3.757 | 45 | 221111 | 51.279 | ug/l | 97 |
| 23) Vinyl Acetate | 3.714 | 43 | 985800 | 259.937 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 121218 | 50.473 | ug/l | 99 |
| 25) 2-Butanone | 4.550 | 43 | 276370 | 258.541 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 97857 | 52.058 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.476 | 96 | 70401 | 49.788 | ug/l | 100 |
| 28) Bromochloromethane | 4.885 | 49 | 60754 | 52.554 | ug/l | 98 |
| 29) Tetrahydrofuran | 5.001 | 42 | 169140 | 252.509 | ug/l | 99 |
| 30) Chloroform | 5.080 | 83 | 128041 | 51.150 | ug/l | 98 |
| 31) Cyclohexane | 5.458 | 56 | 106545 | 48.684 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 110040 | 50.711 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 80599 | 49.767 | ug/l | 99 |
| 37) Ethyl Acetate | 4.708 | 43 | 101469 | 50.711 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 96000 | 52.757 | ug/l | 97 |
| 39) Methylcyclohexane | 7.372 | 83 | 103987 | 49.874 | ug/l | 95 |
| 40) Benzene | 6.031 | 78 | 241084 | 50.821 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.909 | 41 | 58409 | 55.803 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 104637 | 51.108 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 160905 | 52.712 | ug/l | | 99 |
| 44) Trichloroethene | 7.116 | 130 | 57533 | 50.391 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 61983 | 52.547 | ug/l | | 98 |
| 46) Dibromomethane | 7.573 | 93 | 47779 | 51.357 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.817 | 83 | 98344 | 53.671 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.689 | 41 | 84825 | 54.412 | ug/l | | 97 |
| 49) 1,4-Dioxane | 7.659 | 88 | 30084 | 1016.342 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 528906 | 261.030 | ug/l | | 100 |
| 52) Toluene | 8.713 | 92 | 147915 | 50.851 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 89007 | 54.650 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 97171 | 53.981 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 9.146 | 97 | 58697 | 51.177 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 99742 | 54.564 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 104465 | 50.716 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 254739 | 273.344 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 390477 | 260.479 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 69888 | 55.484 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 61530 | 51.616 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.268 | 164 | 53943 | 51.953 | ug/l | | 93 |
| 65) Chlorobenzene | 10.073 | 112 | 160170 | 49.867 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131 | 57345 | 52.285 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 290658 | 51.336 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 215927 | 104.273 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 104981 | 52.001 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 177405 | 53.645 | ug/l | | 99 |
| 71) Bromoform | 10.798 | 173 | 45067 | 54.730 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 282394 | 51.497 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 136431 | 50.348 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 90369 | 47.026 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.237 | 75 | 81816m | 48.256 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 63958 | 50.237 | ug/l | | 99 |
| 78) n-propylbenzene | 11.298 | 91 | 332668 | 52.174 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.359 | 91 | 203011 | 49.362 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 238897 | 52.146 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 26481 | 50.850 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 236578 | 51.872 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 235120 | 50.951 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.749 | 105 | 241198 | 51.989 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 299076 | 52.784 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 246710 | 52.751 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 117835 | 50.715 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 116679 | 49.172 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.329 | 91 | 220935 | 53.855 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 43914 | 53.296 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 115297 | 49.450 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75 | 21277 | 49.979 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 66994 | 50.026 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 30548 | 52.230 | ug/l | | 100 |
| 95) Naphthalene | 13.774 | 128 | 241042 | 49.076 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.956 | 180 | 69113 | 50.017 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

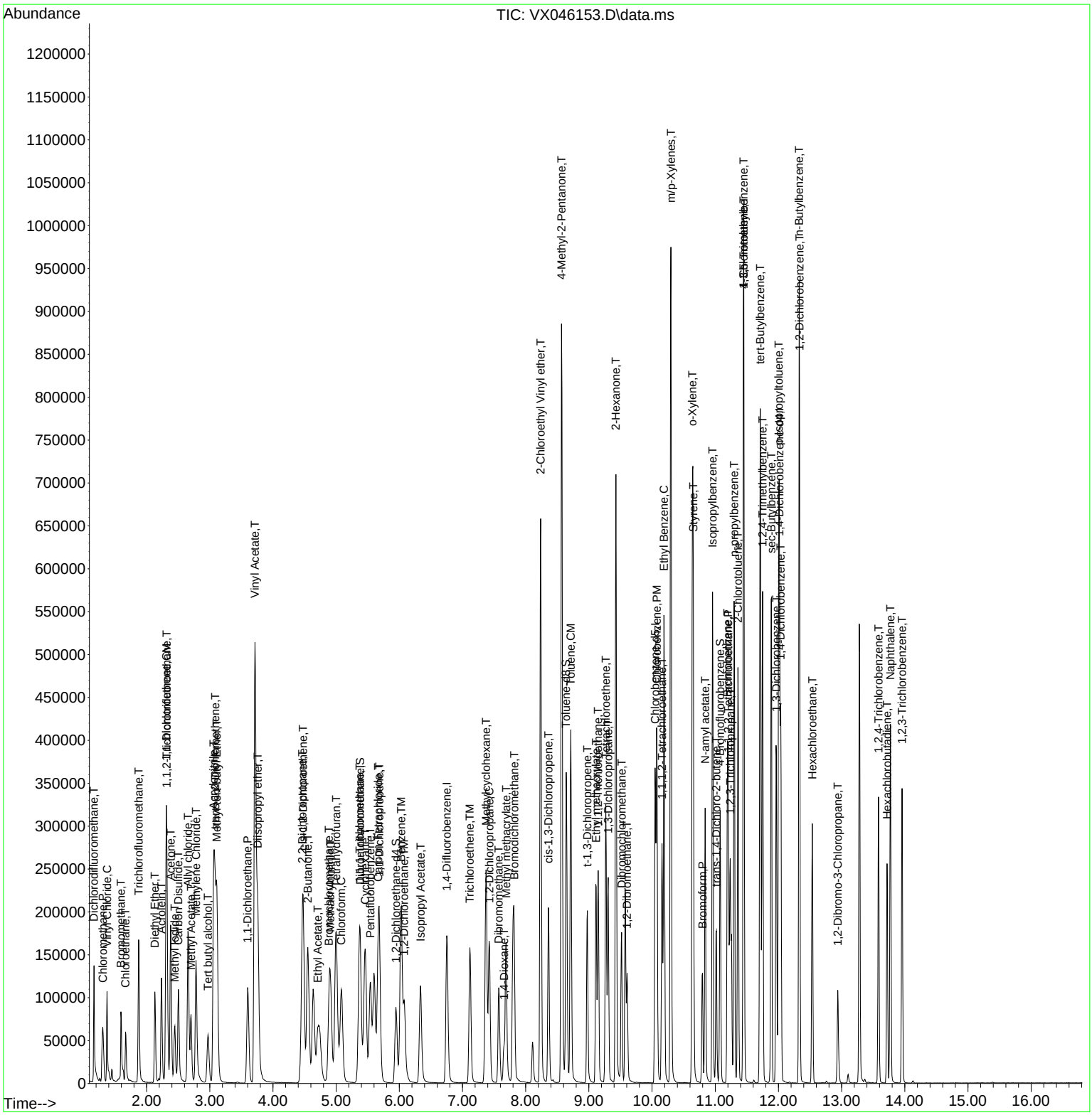
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



Sample Results: **VX046153.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.765 | 0.839 | -9.7 | 99 | 0.00 |
| 3 | P | Chloromethane | 0.742 | 0.751 | -1.2 | 98 | 0.00 |
| 4 | C | Vinyl Chloride | 0.691 | 0.696 | -0.7# | 99 | 0.00 |
| 5 | T | Bromomethane | 0.320 | 0.304 | 5.0 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.369 | 0.375 | -1.6 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.021 | 1.066 | -4.4 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 0.347 | 0.342 | 1.4 | 103 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.653 | -3.3 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 0.747 | 0.720 | 3.6 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.131 | 0.128 | 2.3 | 100 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.593 | 0.578 | 2.5# | 98 | 0.00 |
| 13 | T | Acrolein | 0.149 | 0.170 | -14.1 | 113 | 0.00 |
| 14 | T | Allyl chloride | 1.133 | 1.172 | -3.4 | 101 | 0.00 |
| 15 | T | Acrylonitrile | 0.374 | 0.385 | -2.9 | 101 | 0.00 |
| 16 | T | Acetone | 0.374 | 0.410 | -9.6 | 115 | 0.00 |
| 17 | T | Carbon Disulfide | 1.406 | 1.375 | 2.2 | 96 | 0.00 |
| 18 | T | Methyl Acetate | 0.867 | 0.927 | -6.9 | 111 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.079 | 2.132 | -2.5 | 100 | 0.00 |
| 20 | T | Methylene Chloride | 0.716 | 0.668 | 6.7 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.596 | 0.589 | 1.2 | 98 | 0.00 |
| 22 | T | Diisopropyl ether | 2.189 | 2.245 | -2.6 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 1.925 | 2.002 | -4.0 | 99 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.219 | 1.231 | -1.0 | 99 | 0.00 |
| 25 | T | 2-Butanone | 0.543 | 0.561 | -3.3 | 103 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.954 | 0.993 | -4.1 | 105 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.718 | 0.715 | 0.4 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.587 | 0.617 | -5.1 | 108 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.340 | 0.343 | -0.9 | 99 | 0.00 |
| 30 | C | Chloroform | 1.271 | 1.300 | -2.3# | 102 | 0.00 |
| 31 | T | Cyclohexane | 1.111 | 1.082 | 2.6 | 97 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.101 | 1.117 | -1.5 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.932 | 0.899 | 3.5 | 100 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.360 | 0.371 | -3.1 | 104 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.484 | 0.482 | 0.4 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 0.598 | 0.606 | -1.3 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.544 | 0.574 | -5.5 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 0.623 | 0.621 | 0.3 | 97 | 0.00 |
| 40 | TM | Benzene | 1.417 | 1.440 | -1.6 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 0.313 | 0.349 | -11.5 | 101 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.612 | 0.625 | -2.1 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.912 | 0.961 | -5.4 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 0.341 | 0.344 | -0.9 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.352 | 0.370 | -5.1# | 99 | 0.00 |
| 46 | T | Dibromomethane | 0.278 | 0.285 | -2.5 | 99 | 0.00 |
| 47 | T | Bromodichloromethane | 0.547 | 0.588 | -7.5 | 101 | 0.00 |
| 48 | T | Methyl methacrylate | 0.466 | 0.507 | -8.8 | 101 | 0.00 |

Sample Results: **VX046153.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.009 | 0.009 | 0.0 | 99 | 0.00 |
| 50 | S | Toluene-d8 | 1.246 | 1.236 | 0.8 | 101 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.605 | 0.632 | -4.5 | 99 | 0.00 |
| 52 | CM | Toluene | 0.869 | 0.884 | -1.7# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.487 | 0.532 | -9.2 | 100 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.538 | 0.581 | -8.0 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.343 | 0.351 | -2.3 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.546 | 0.596 | -9.2 | 100 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.615 | 0.624 | -1.5 | 100 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.278 | 0.304 | -9.4 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 0.448 | 0.467 | -4.2 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 0.376 | 0.418 | -11.2 | 104 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.368 | -3.4 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.478 | 0.484 | -1.3 | 102 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 0.354 | 0.368 | -4.0 | 98 | 0.00 |
| 65 | PM | Chlorobenzene | 1.094 | 1.091 | 0.3 | 100 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.374 | 0.391 | -4.5 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 1.929 | 1.981 | -2.7# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 0.706 | 0.736 | -4.2 | 100 | 0.00 |
| 69 | T | o-Xylene | 0.688 | 0.715 | -3.9 | 99 | 0.00 |
| 70 | T | Styrene | 1.127 | 1.209 | -7.3 | 99 | 0.00 |
| 71 | P | Bromoform | 0.281 | 0.307 | -9.3 | 101 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 3.893 | 4.009 | -3.0 | 101 | 0.00 |
| 74 | T | N-amyl acetate | 1.924 | 1.937 | -0.7 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.364 | 1.283 | 5.9 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.204 | 1.162 | 3.5 | 101 | 0.00 |
| 77 | T | Bromobenzene | 0.904 | 0.908 | -0.4 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 4.526 | 4.723 | -4.4 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.919 | 2.882 | 1.3 | 100 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.252 | 3.392 | -4.3 | 101 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.370 | 0.376 | -1.6 | 101 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.238 | 3.359 | -3.7 | 101 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.276 | 3.338 | -1.9 | 101 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.293 | 3.424 | -4.0 | 101 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.022 | 4.246 | -5.6 | 103 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.320 | 3.503 | -5.5 | 102 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.649 | 1.673 | -1.5 | 102 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.684 | 1.657 | 1.6 | 101 | 0.00 |
| 89 | T | n-Butylbenzene | 2.912 | 3.137 | -7.7 | 103 | 0.00 |
| 90 | T | Hexachloroethane | 0.585 | 0.623 | -6.5 | 104 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.655 | 1.637 | 1.1 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.302 | 0.302 | 0.0 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.951 | 0.951 | 0.0 | 101 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.415 | 0.434 | -4.6 | 105 | 0.00 |
| 95 | T | Naphthalene | 3.487 | 3.422 | 1.9 | 98 | 0.00 |

Sample Results: **VX046153.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.981 | 0.981 | 0.0 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VX046153.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 54.831 | -9.7 | 99 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 50.599 | -1.2 | 98 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 50.372 | -0.7# | 99 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.492 | 5.0 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.814 | -1.6 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 52.202 | -4.4 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.172 | 1.7 | 103 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.683 | -3.4 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 48.163 | 3.7 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 243.884 | 2.4 | 100 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 48.725 | 2.5# | 98 | 0.00 |
| 13 | T | Acrolein | 250.000 | 285.492 | -14.2 | 113 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.734 | -3.5 | 101 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 256.923 | -2.8 | 101 | 0.00 |
| 16 | T | Acetone | 250.000 | 274.202 | -9.7 | 115 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.923 | 2.2 | 96 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 53.463 | -6.9 | 111 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 51.273 | -2.5 | 100 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 46.617 | 6.8 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.427 | 1.1 | 98 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 51.279 | -2.6 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 259.937 | -4.0 | 99 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.473 | -0.9 | 99 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 258.541 | -3.4 | 103 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.058 | -4.1 | 105 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.788 | 0.4 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 52.554 | -5.1 | 108 | -0.01 |
| 29 | T | Tetrahydrofuran | 250.000 | 252.509 | -1.0 | 99 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.150 | -2.3# | 102 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 48.684 | 2.6 | 97 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.711 | -1.4 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 48.218 | 3.6 | 100 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.505 | -3.0 | 104 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.767 | 0.5 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.711 | -1.4 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 52.757 | -5.5 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.874 | 0.3 | 97 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.821 | -1.6 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.803 | -11.6 | 101 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.108 | -2.2 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.712 | -5.4 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.391 | -0.8 | 96 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.547 | -5.1# | 99 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 51.357 | -2.7 | 99 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 53.671 | -7.3 | 101 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 54.412 | -8.8 | 101 | 0.00 |

Sample Results: **VX046153.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1016.342 | -1.6 | 99 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.588 | 0.8 | 101 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 261.030 | -4.4 | 99 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.851 | -1.7# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 54.650 | -9.3 | 100 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.981 | -8.0 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.177 | -2.4 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 54.564 | -9.1 | 100 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.716 | -1.4 | 100 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 273.344 | -9.3 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 260.479 | -4.2 | 98 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 55.484 | -11.0 | 104 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.616 | -3.2 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.604 | -1.2 | 102 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 51.953 | -3.9 | 98 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.867 | 0.3 | 100 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.285 | -4.6 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.336 | -2.7# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 104.273 | -4.3 | 100 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 52.001 | -4.0 | 99 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.645 | -7.3 | 99 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.730 | -9.5 | 101 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.497 | -3.0 | 101 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 50.348 | -0.7 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.026 | 5.9 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.256 | 3.5 | 101 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.237 | -0.5 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.174 | -4.3 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.362 | 1.3 | 100 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.146 | -4.3 | 101 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 50.850 | -1.7 | 101 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.872 | -3.7 | 101 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.951 | -1.9 | 101 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.989 | -4.0 | 101 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 52.784 | -5.6 | 103 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.751 | -5.5 | 102 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.715 | -1.4 | 102 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.172 | 1.7 | 101 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 53.855 | -7.7 | 103 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 53.296 | -6.6 | 104 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.450 | 1.1 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.979 | 0.0 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 50.026 | -0.1 | 101 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 52.230 | -4.5 | 105 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 49.076 | 1.8 | 98 | 0.00 |

Sample Results: **VX046153.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046153.D
Acq On : 13 May 2025 10:00
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: May 14 01:33:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 50.017 | -0.0 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# QC SAMPLE DATA

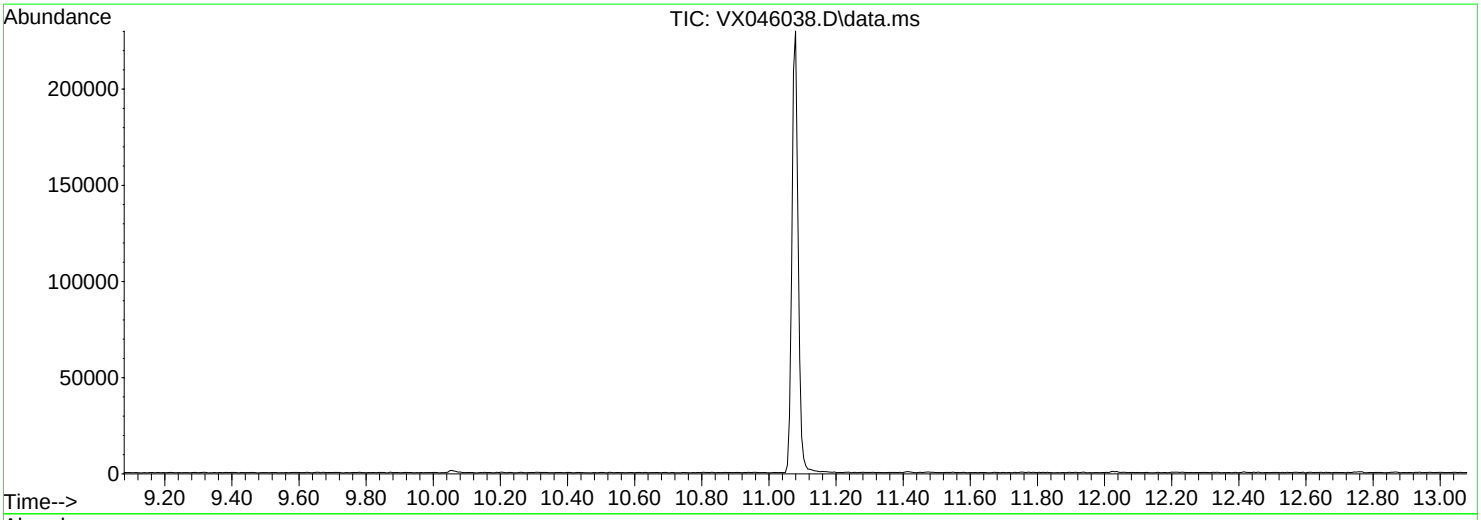
Sample Results: **VX046038.D**

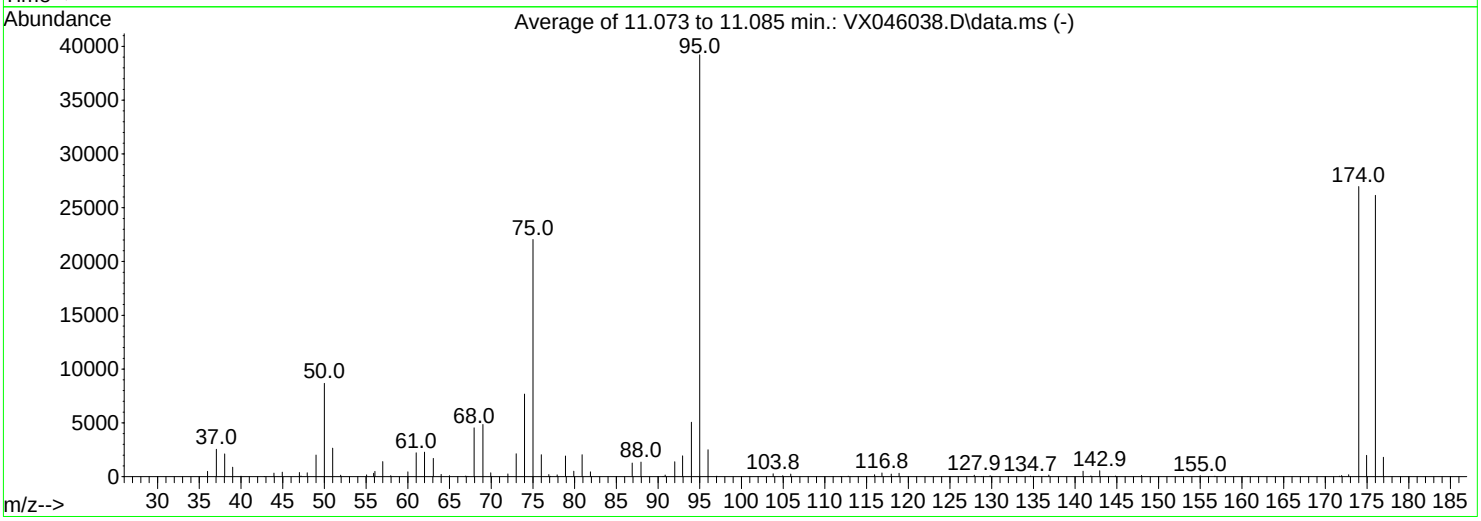
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046038.D
Acq On : 05 May 2025 09:37
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025




AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.1 | 8676 | PASS |
| 75 | 95 | 30 | 60 | 56.2 | 22052 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 39213 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 2505 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 185 | PASS |
| 174 | 95 | 50 | 100 | 68.8 | 26963 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 1980 | PASS |
| 176 | 174 | 95 | 101 | 97.0 | 26147 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 1802 | PASS |

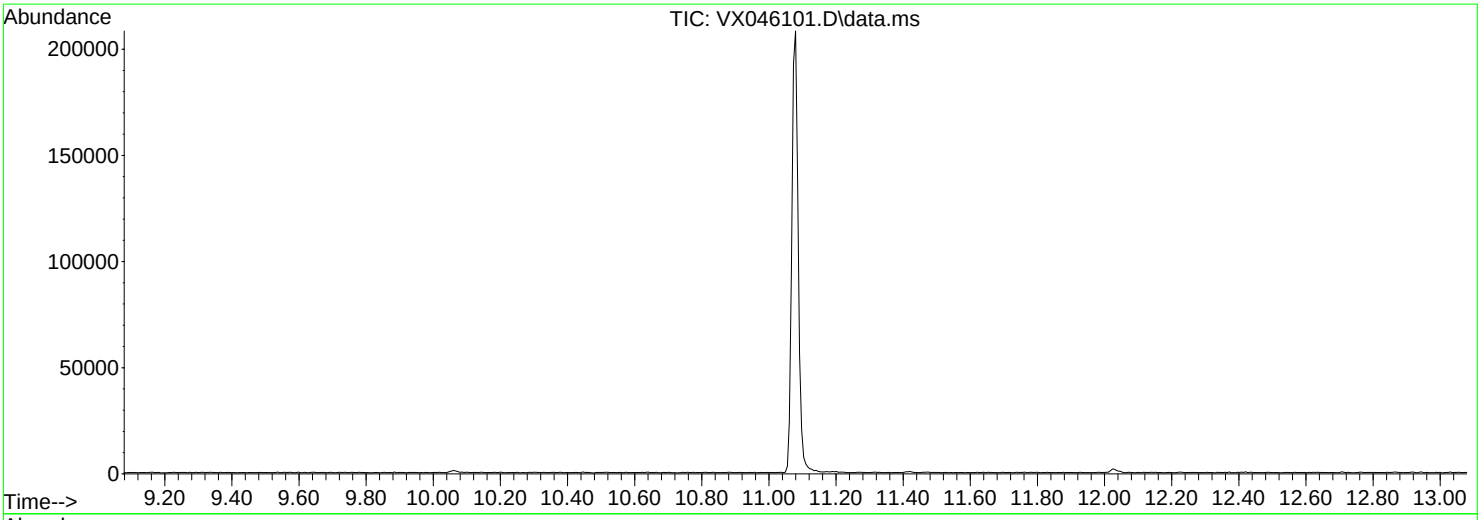
Sample Results: **VX046101.D**

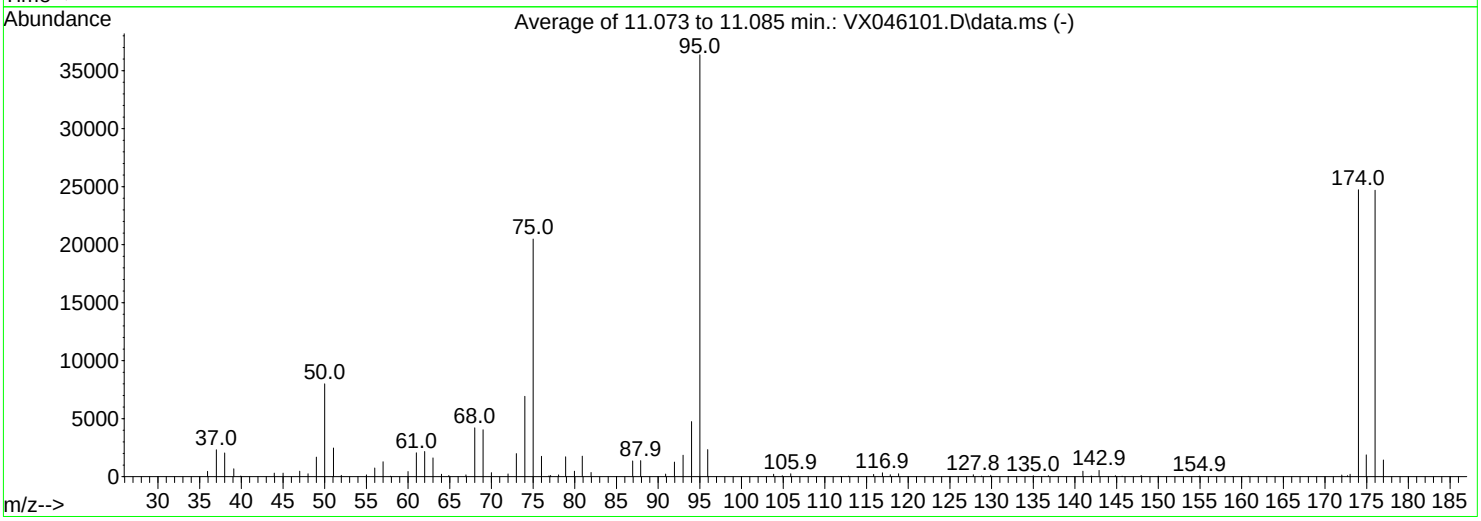
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046101.D
Acq On : 09 May 2025 09:36
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025




AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.0 | 8007 | PASS |
| 75 | 95 | 30 | 60 | 56.3 | 20484 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 36363 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 2339 | PASS |
| 173 | 174 | 0.00 | 2 | 0.8 | 203 | PASS |
| 174 | 95 | 50 | 100 | 68.0 | 24728 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 1874 | PASS |
| 176 | 174 | 95 | 101 | 99.8 | 24688 | PASS |
| 177 | 176 | 5 | 9 | 5.8 | 1440 | PASS |

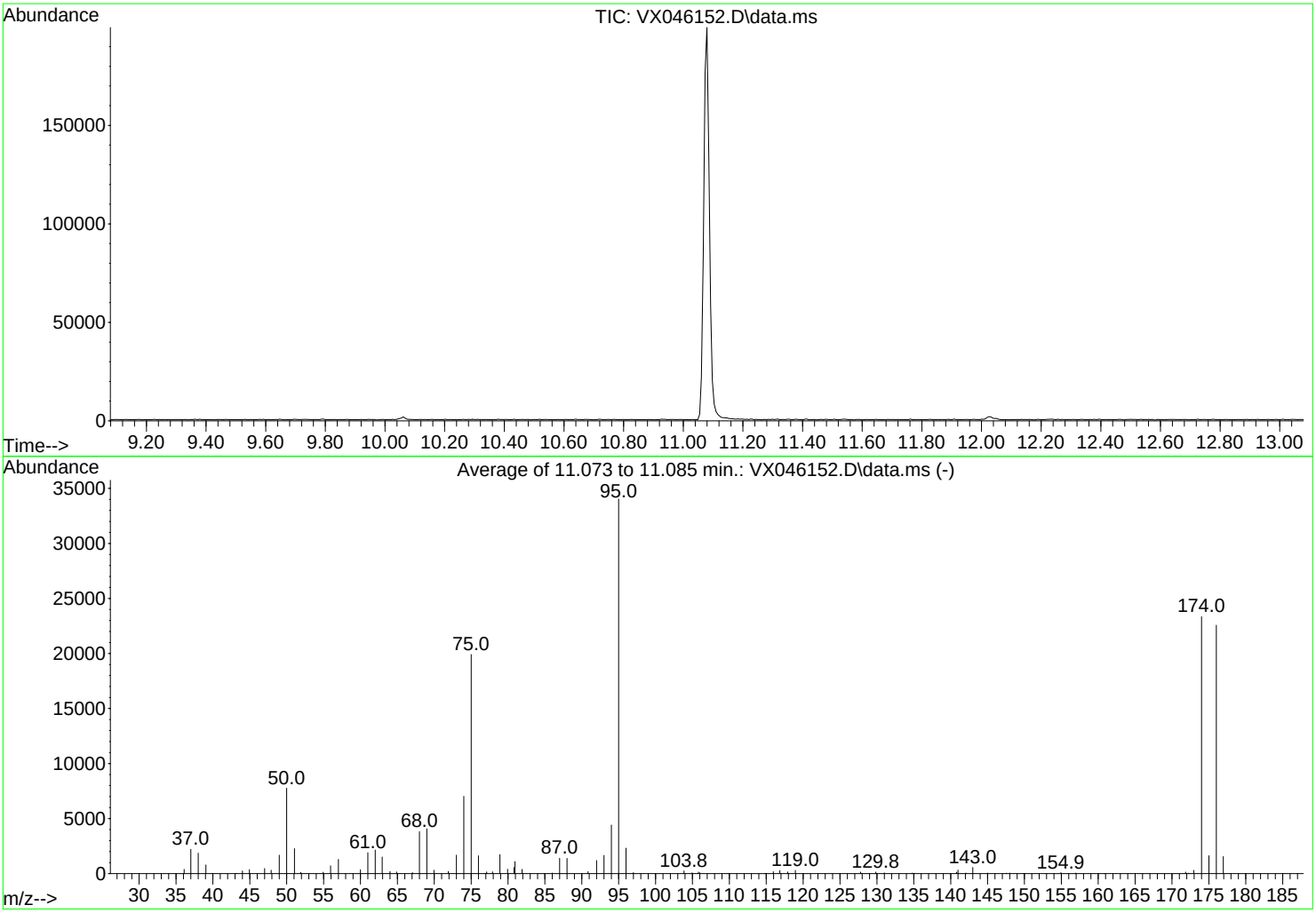
Sample Results: **VX046152.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046152.D
Acq On : 13 May 2025 09:29
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025




AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.8 | 7764 | PASS |
| 75 | 95 | 30 | 60 | 58.5 | 19919 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 34040 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 2313 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 300 | PASS |
| 174 | 95 | 50 | 100 | 68.6 | 23352 | PASS |
| 175 | 174 | 5 | 9 | 7.0 | 1623 | PASS |
| 176 | 174 | 95 | 101 | 96.7 | 22576 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 1554 | PASS |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | |
| Client Sample ID: | VX0509WBL01 | SDG No.: | Q1993 |
| Lab Sample ID: | VX0509WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046104.D | 1 | | 05/09/25 10:55 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046104.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | |
| Client Sample ID: | VX0509WBL01 | SDG No.: | Q1993 |
| Lab Sample ID: | VX0509WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046104.D | 1 | | 05/09/25 10:55 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.5 | | 74 - 125 | 105% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.4 | | 75 - 124 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.7 | | 86 - 113 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.0 | | 77 - 121 | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 68000 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 135000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 126000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 52900 | 12.018 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046104.D
Acq On : 09 May 2025 10:55
Operator : JC/MD
Sample : VX0509WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Quant Time: May 09 23:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 68013 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 134737 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 125593 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 52925 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 66596 | 52.521 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 105.040% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 48945 | 50.446 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.900% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 166992 | 49.727 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 99.460% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 64435 | 50.022 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 100.040% | | | |

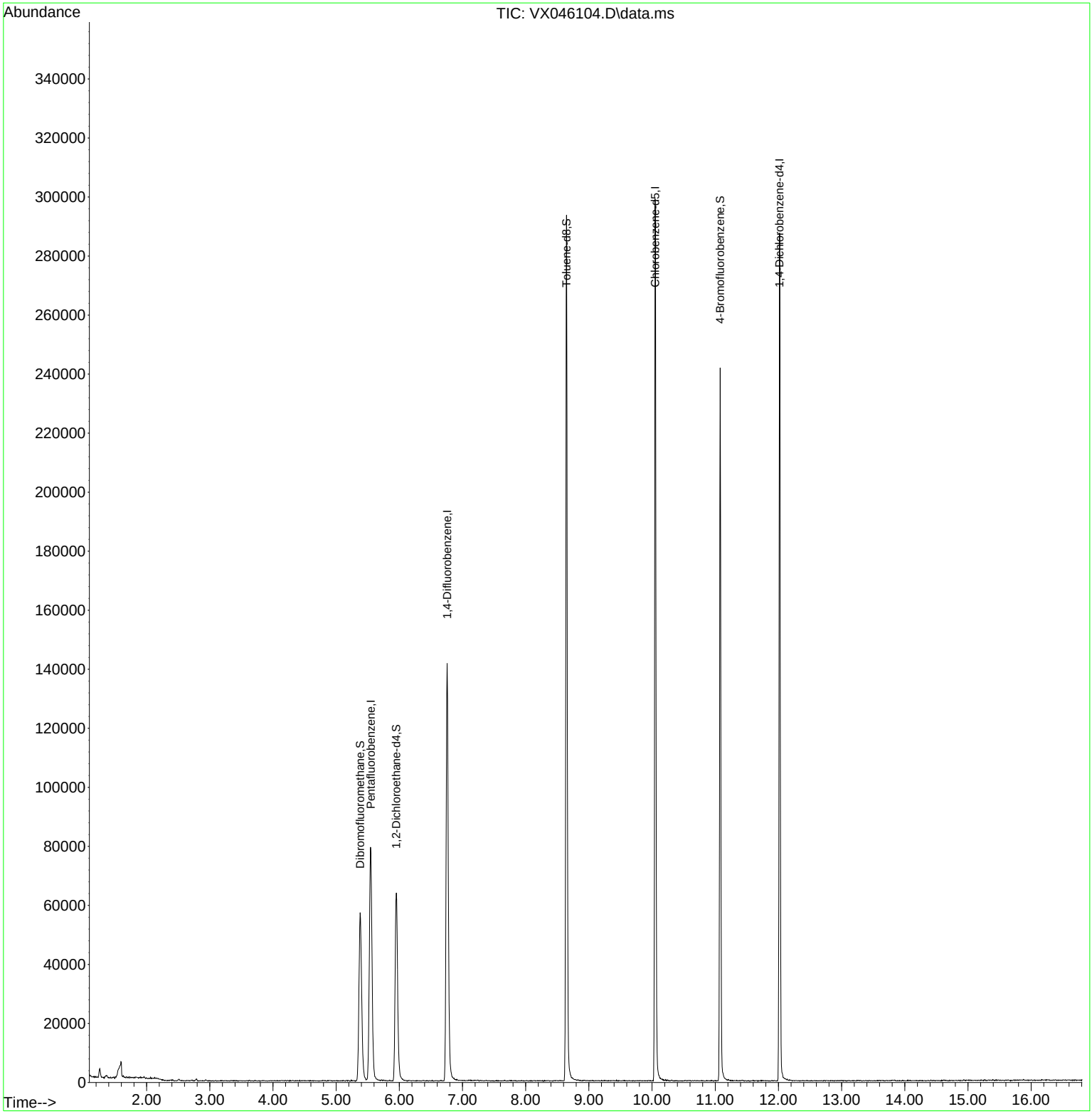
Target Compounds Qvalue

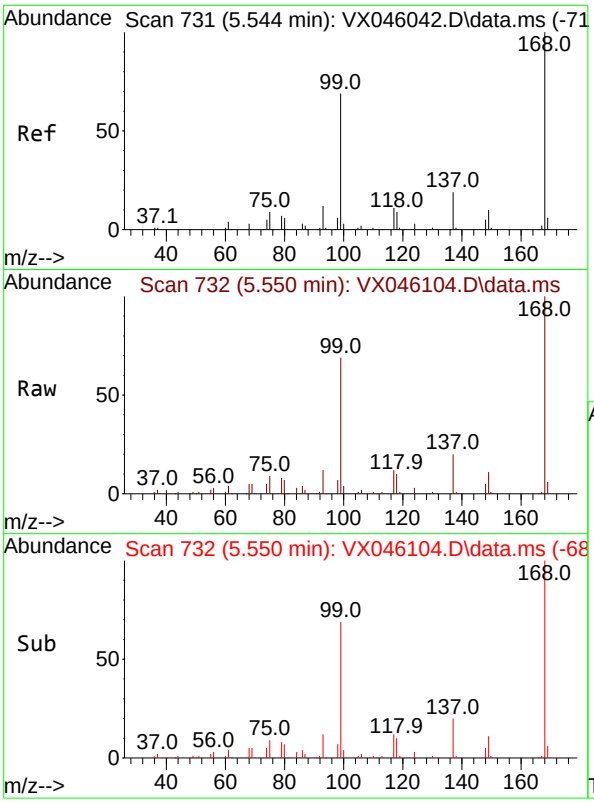
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046104.D
Acq On : 09 May 2025 10:55
Operator : JC/MD
Sample : VX0509WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Quant Time: May 09 23:14:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



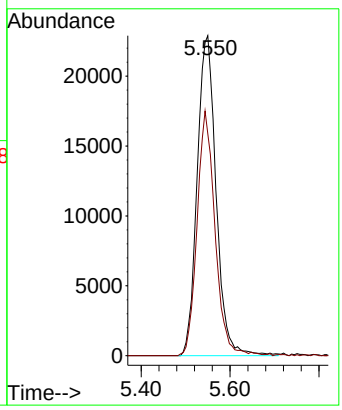


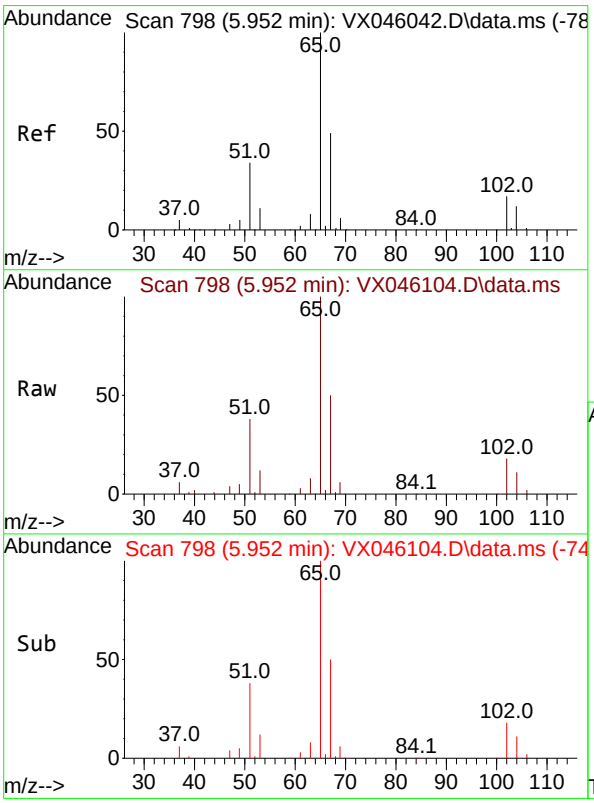

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046104.D
Acq: 09 May 2025 10:55

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Tgt Ion:168 Resp: 68013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 69.4 | 54.9 | 82.3 |

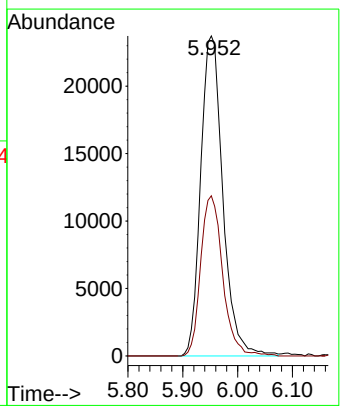


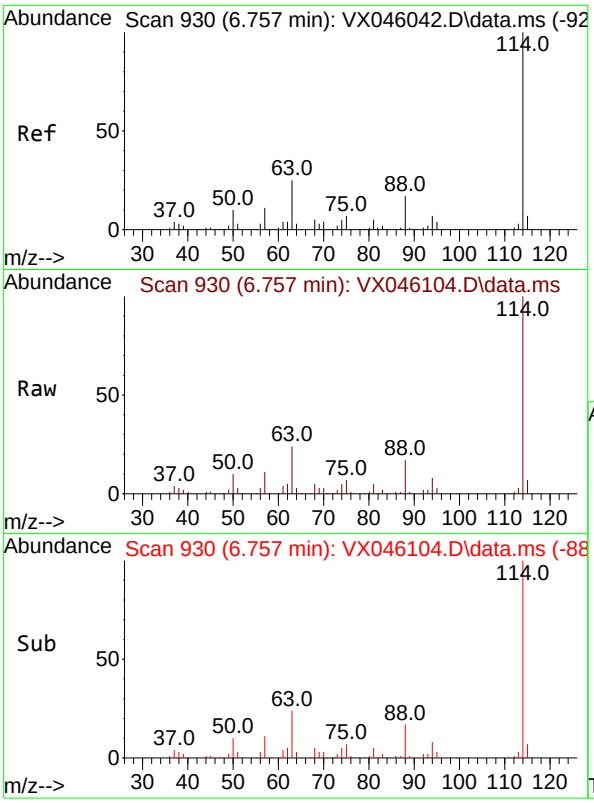




#33
1,2-Dichloroethane-d4
Concen: 52.521 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046104.D
Acq: 09 May 2025 10:55

Tgt Ion: 65 Resp: 66596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.8 | 0.0 | 99.0 |



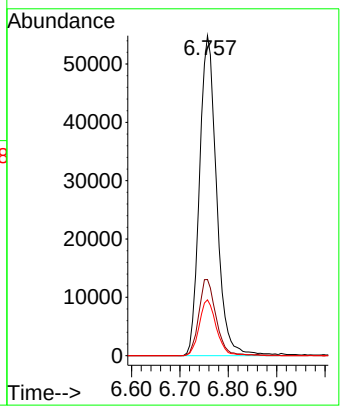


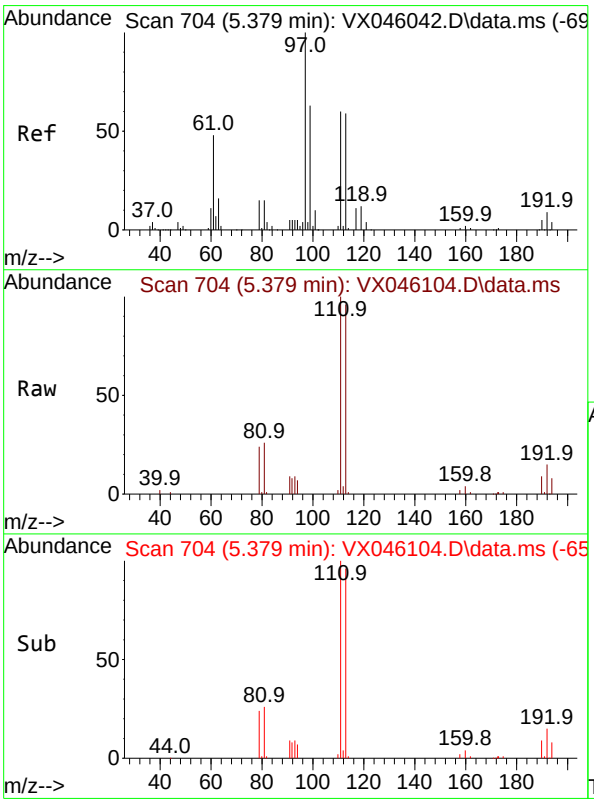

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046104.D
Acq: 09 May 2025 10:55

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Tgt Ion:114 Resp: 134737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.8 | 0.0 | 49.2 |
| 88 | 17.4 | 0.0 | 33.6 |

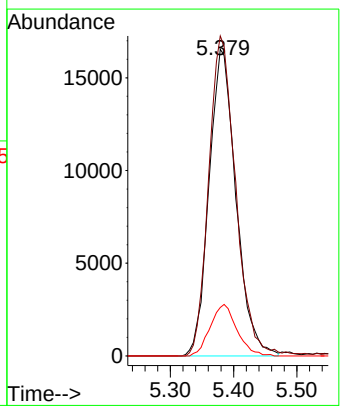


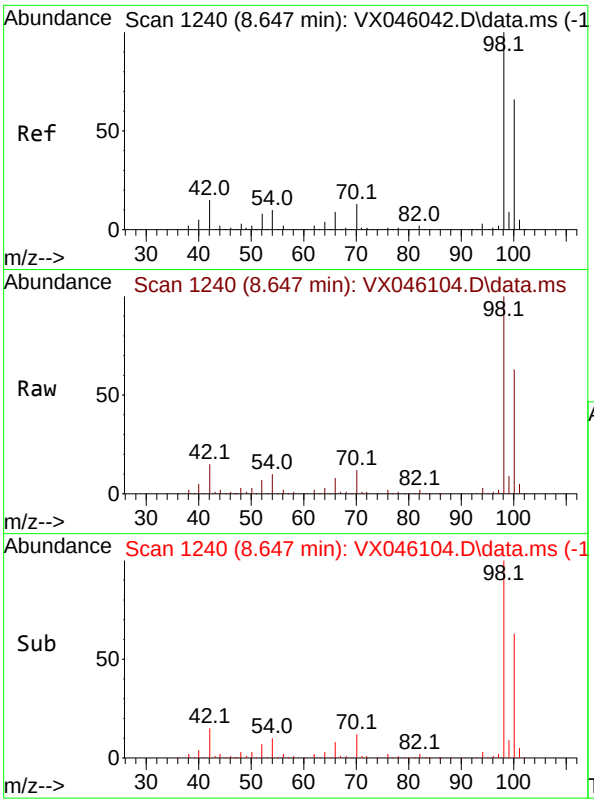




#35
Dibromofluoromethane
Concen: 50.446 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046104.D
Acq: 09 May 2025 10:55

Tgt Ion:113 Resp: 48945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.7 | 83.1 | 124.7 |
| 192 | 16.6 | 13.3 | 19.9 |



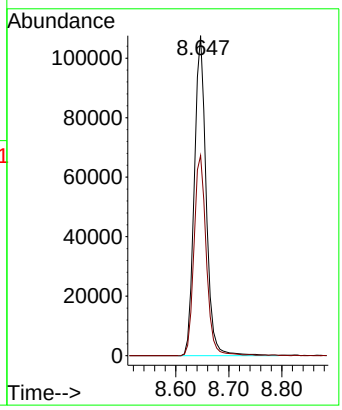


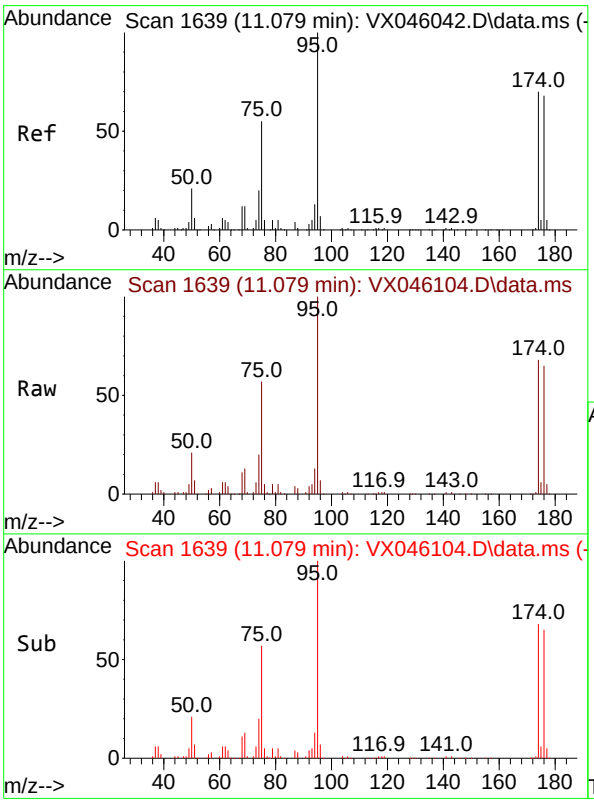

#50
Toluene-d8
Concen: 49.727 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046104.D
Acq: 09 May 2025 10:55

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Tgt Ion: 98 Resp: 166992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 53.5 | 80.3 |

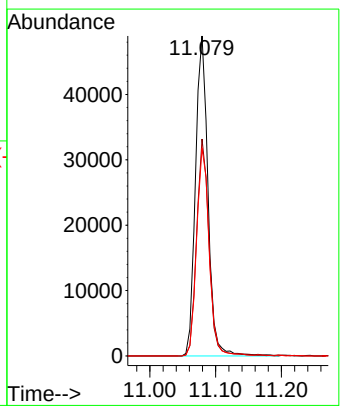


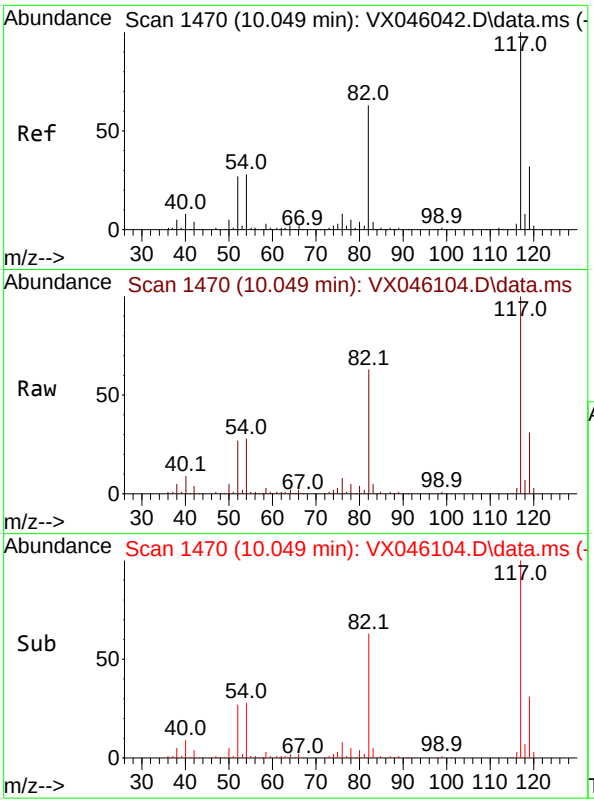




#62
4-Bromofluorobenzene
Concen: 50.022 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046104.D
Acq: 09 May 2025 10:55

Tgt Ion: 95 Resp: 64435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.2 | 0.0 | 135.8 |
| 176 | 65.2 | 0.0 | 131.4 |



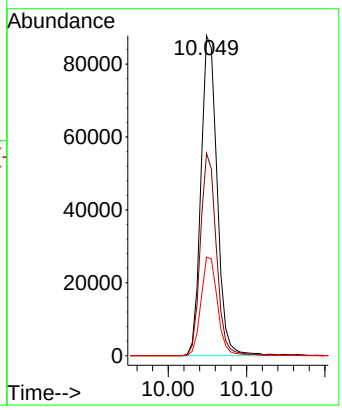


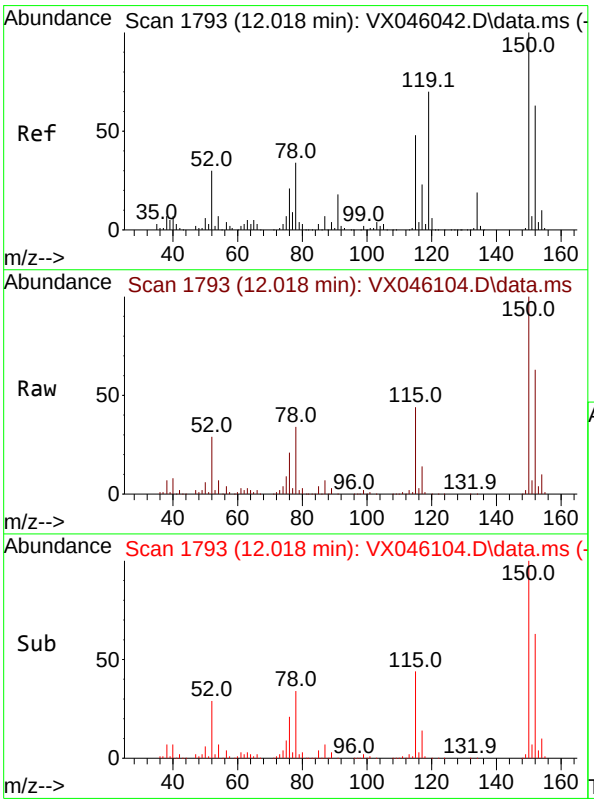

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046104.D
Acq: 09 May 2025 10:55

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Tgt Ion:117 Resp: 125593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.3 | 50.6 | 76.0 |
| 119 | 30.8 | 25.8 | 38.6 |

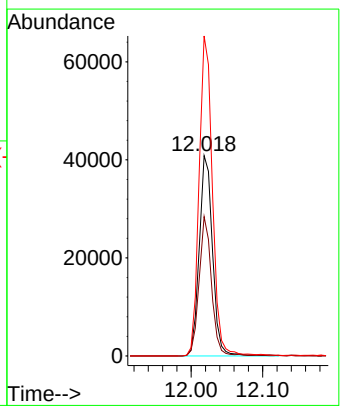



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046104.D
Acq: 09 May 2025 10:55

Tgt Ion:152 Resp: 52925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.1 | 46.9 | 140.7 |
| 150 | 159.7 | 0.0 | 351.0 |



Sample Results: **VX046104.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046104.D
Acq On : 09 May 2025 10:55
Operator : JC/MD
Sample : VX0509WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046104.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.593 | 70 | 83 | 88 | rBV3 | 5314 | 15519 | 3.34% | 0.622% |
| 2 | 5.379 | 694 | 704 | 719 | rBV2 | 57031 | 167939 | 36.20% | 6.731% |
| 3 | 5.544 | 719 | 731 | 747 | rVV2 | 78858 | 226340 | 48.78% | 9.072% |
| 4 | 5.952 | 789 | 798 | 818 | rBV | 63764 | 177059 | 38.16% | 7.097% |
| 5 | 6.757 | 921 | 930 | 947 | rBV | 141456 | 341894 | 73.69% | 13.704% |
| 6 | 8.647 | 1233 | 1240 | 1253 | rBV | 293269 | 463975 | 100.00% | 18.597% |
| 7 | 10.049 | 1465 | 1470 | 1487 | rBV | 298875 | 427253 | 92.09% | 17.125% |
| 8 | 11.079 | 1634 | 1639 | 1651 | rBV | 241511 | 313491 | 67.57% | 12.565% |
| 9 | 12.018 | 1788 | 1793 | 1805 | rBV | 287275 | 361444 | 77.90% | 14.487% |

Sum of corrected areas: 2494914

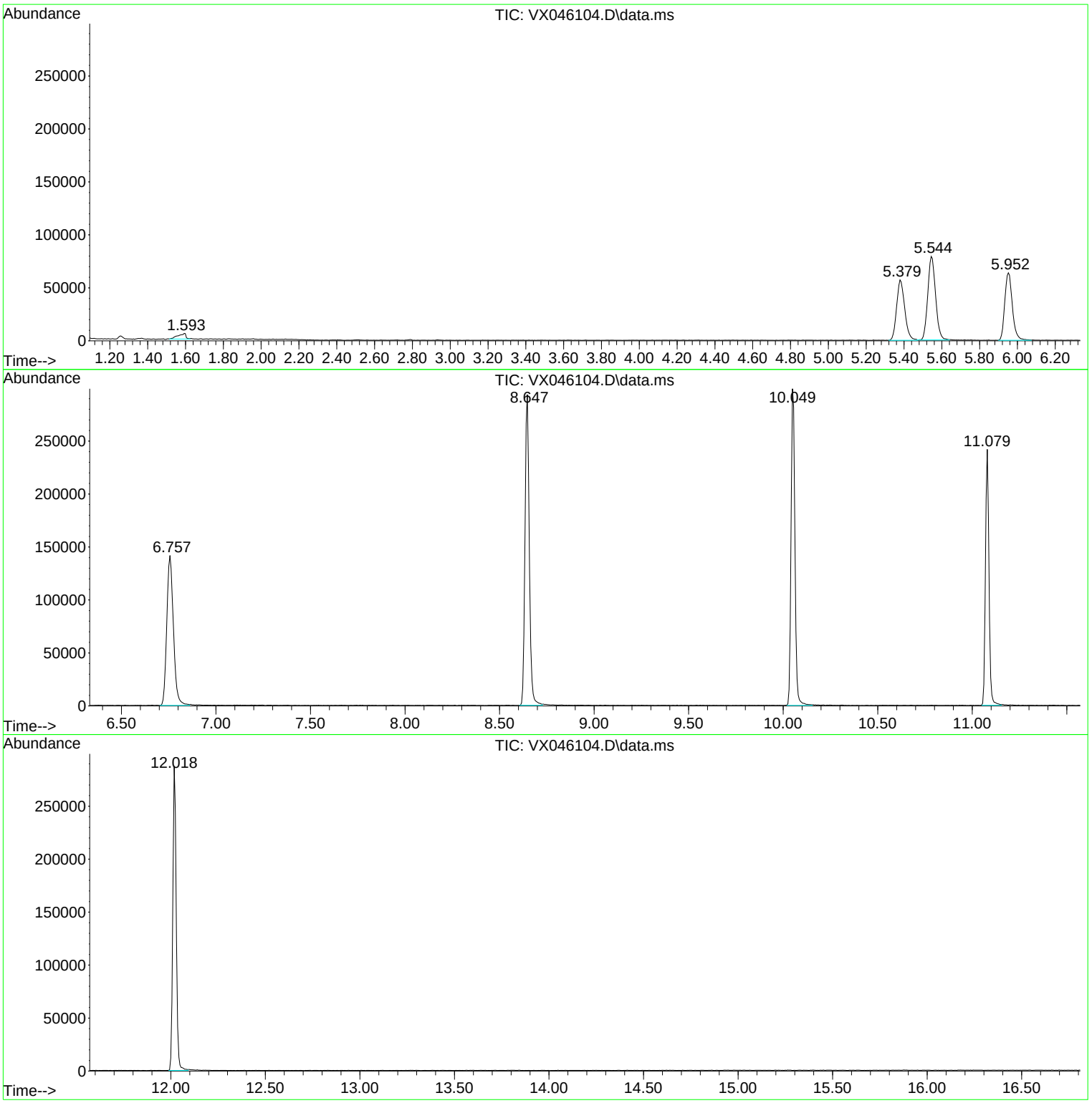
Sample Results: **VX046104.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046104.D
Acq On : 09 May 2025 10:55
Operator : JC/MD
Sample : VX0509WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VX046104.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046104.D
Acq On : 09 May 2025 10:55
Operator : JC/MD
Sample : VX0509WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046104.D
Acq On : 09 May 2025 10:55
Operator : JC/MD
Sample : VX0509WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | |
| Client Sample ID: | VX0513WBL01 | SDG No.: | Q1993 |
| Lab Sample ID: | VX0513WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046155.D | 1 | | 05/13/25 10:52 | VX051325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |

Raw Data: **VX046155.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | |
| Client Sample ID: | VX0513WBL01 | SDG No.: | Q1993 |
| Lab Sample ID: | VX0513WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046155.D | 1 | | 05/13/25 10:52 | VX051325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.8 | | 74 - 125 | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.5 | | 75 - 124 | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.4 | | 86 - 113 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.2 | | 77 - 121 | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 67300 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 133000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 125000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 52700 | 12.018 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046155.D
Acq On : 13 May 2025 10:52
Operator : JC/MD
Sample : VX0513WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Quant Time: May 14 01:35:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 67277 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 133345 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 124650 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 52712 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 67481 | 53.801 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.600% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 49414 | 51.461 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.920% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 167575 | 50.422 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.840% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 63997 | 50.200 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 100.400% | | | |

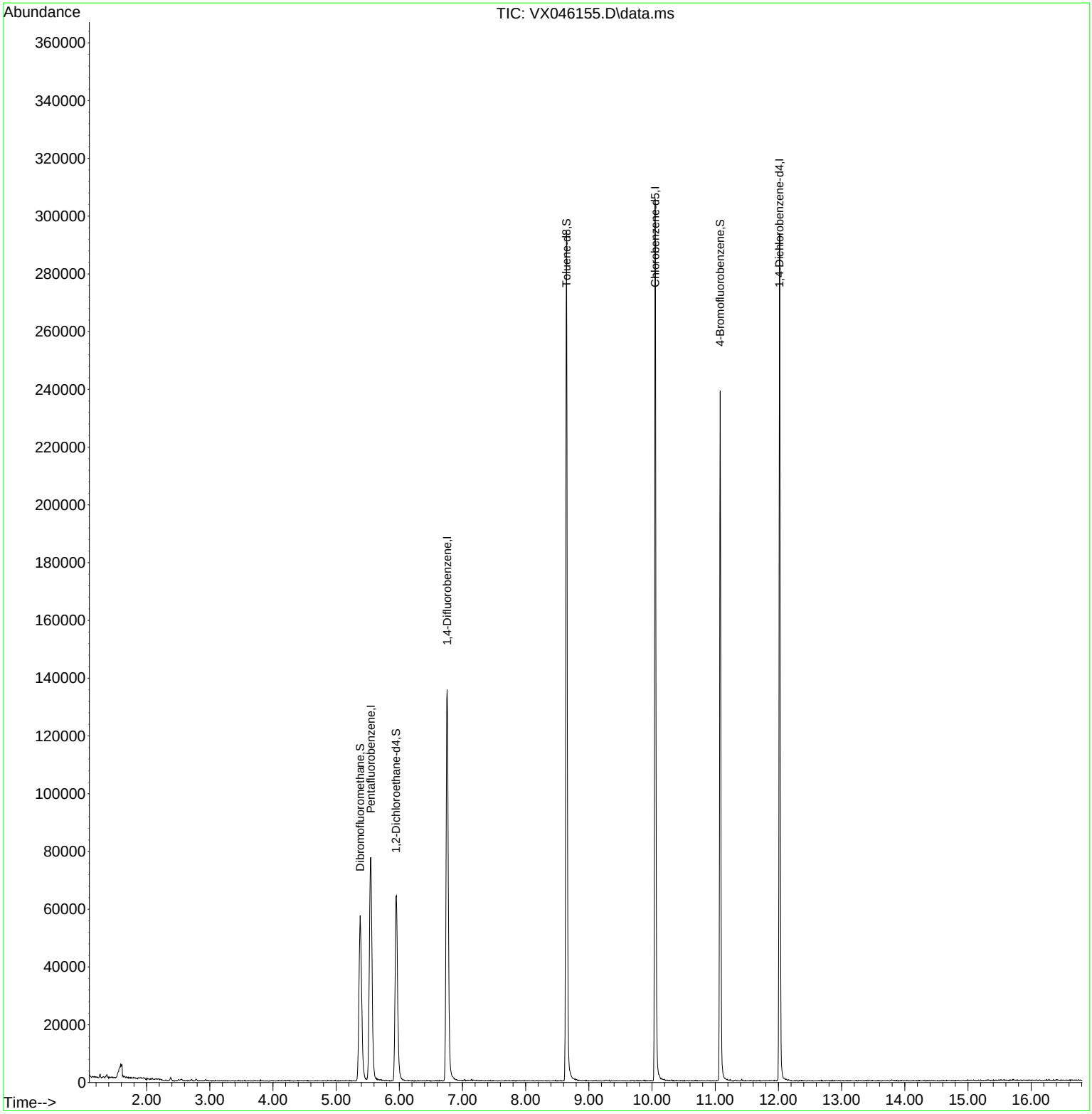
Target Compounds Qvalue

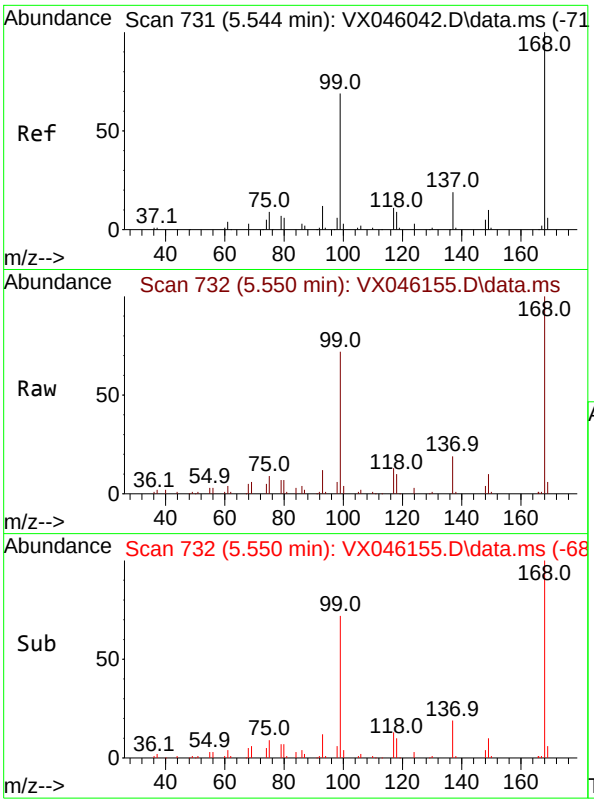
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046155.D
Acq On : 13 May 2025 10:52
Operator : JC/MD
Sample : VX0513WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Quant Time: May 14 01:35:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



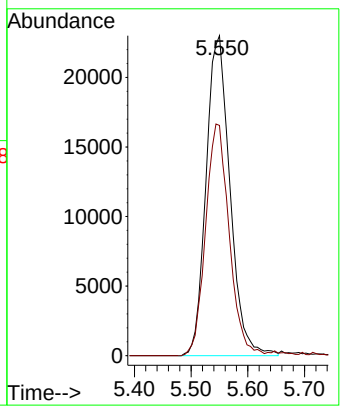


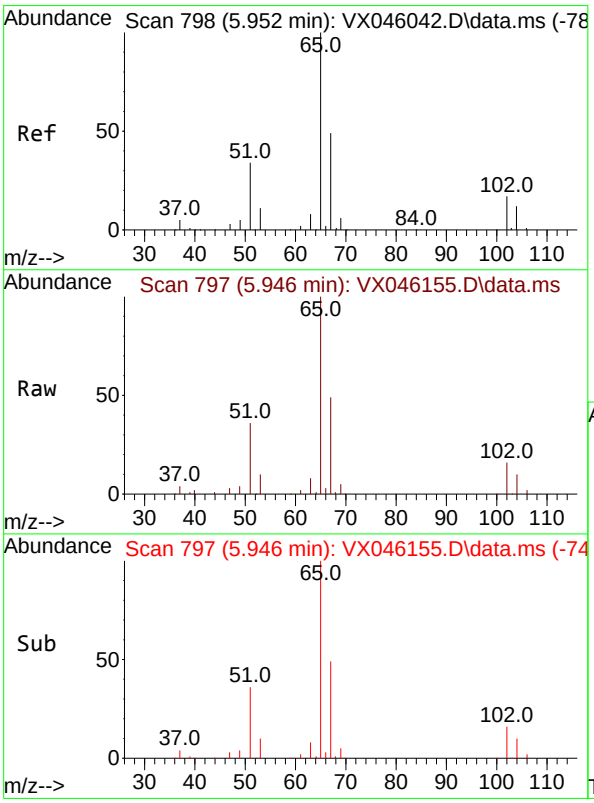

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046155.D
Acq: 13 May 2025 10:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Tgt Ion:168 Resp: 67277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.0 | 54.9 | 82.3 |

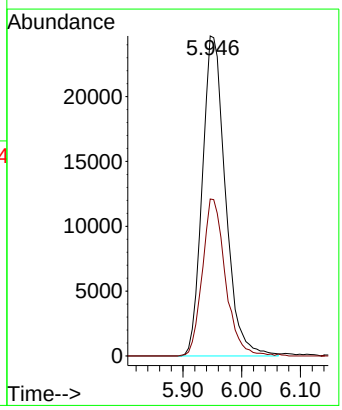


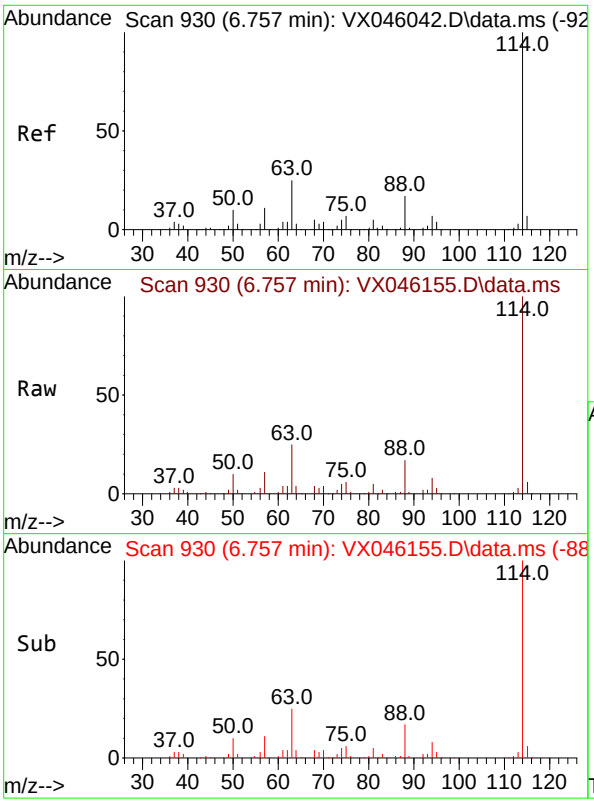




#33
1,2-Dichloroethane-d4
Concen: 53.801 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX046155.D
Acq: 13 May 2025 10:52

Tgt Ion: 65 Resp: 67481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.9 | 0.0 | 99.0 |



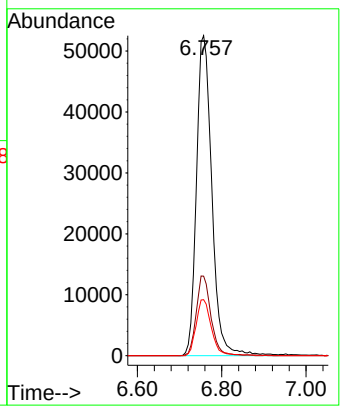


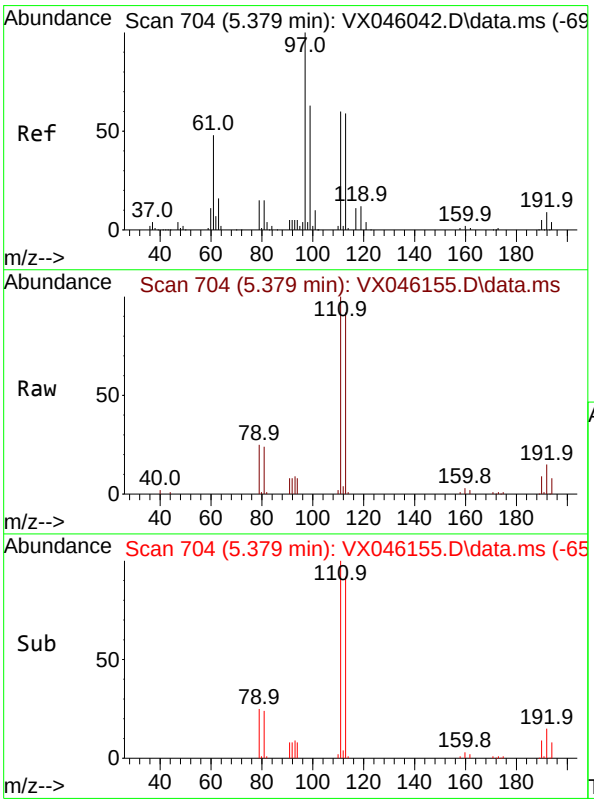

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX046155.D
Acq: 13 May 2025 10:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Tgt Ion:114 Resp: 133345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.8 | 0.0 | 49.2 |
| 88 | 17.5 | 0.0 | 33.6 |

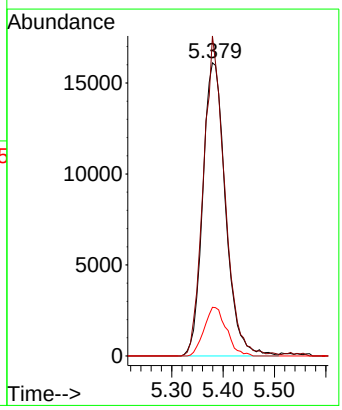


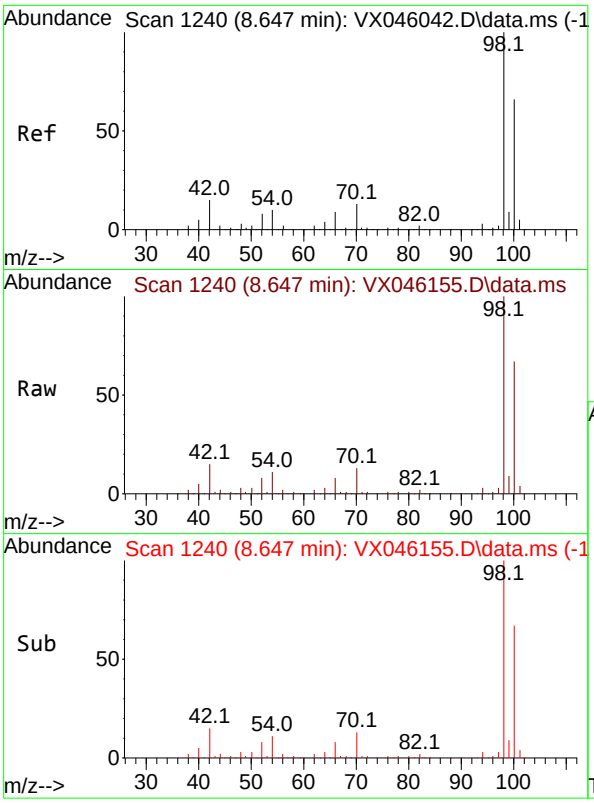




#35
Dibromofluoromethane
Concen: 51.461 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX046155.D
Acq: 13 May 2025 10:52

Tgt Ion:113 Resp: 49414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 83.1 | 124.7 |
| 192 | 16.3 | 13.3 | 19.9 |



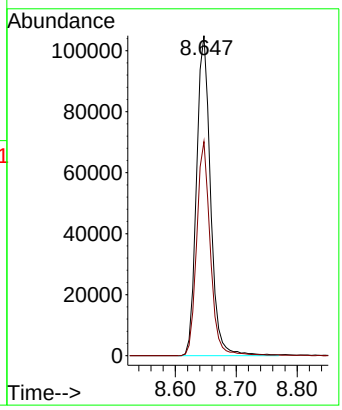


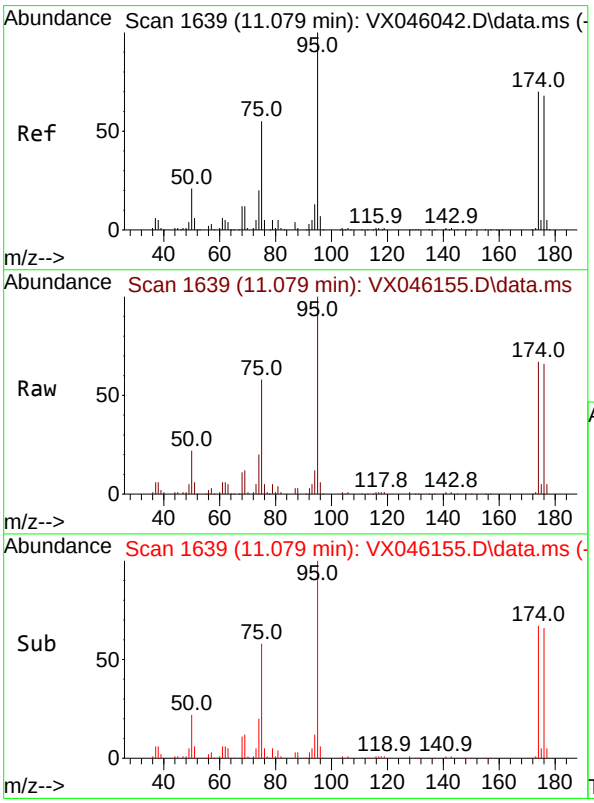

#50
Toluene-d8
Concen: 50.422 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046155.D
Acq: 13 May 2025 10:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Tgt Ion: 98 Resp: 167575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 53.5 | 80.3 |

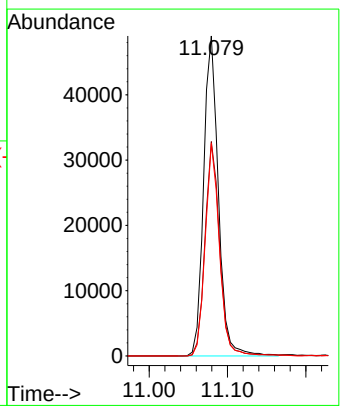


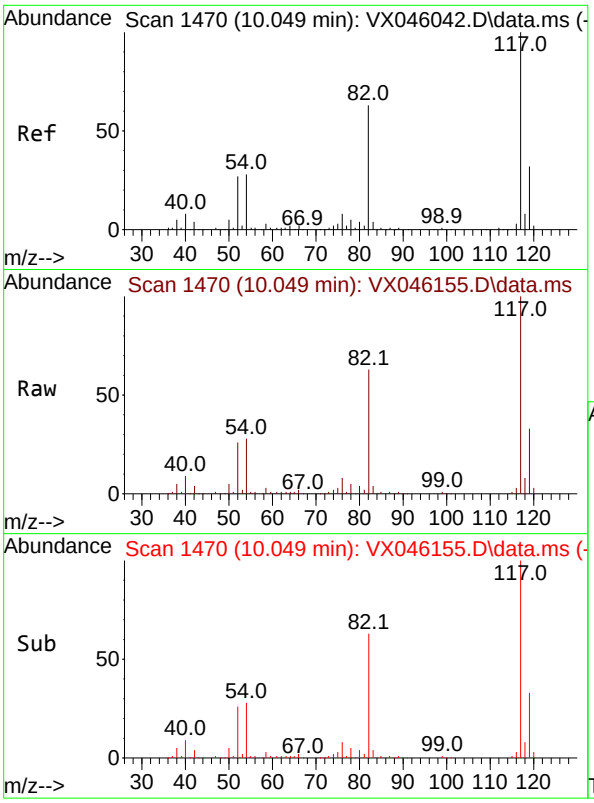




#62
4-Bromofluorobenzene
Concen: 50.200 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046155.D
Acq: 13 May 2025 10:52

Tgt Ion: 95 Resp: 63997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.6 | 0.0 | 135.8 |
| 176 | 64.1 | 0.0 | 131.4 |



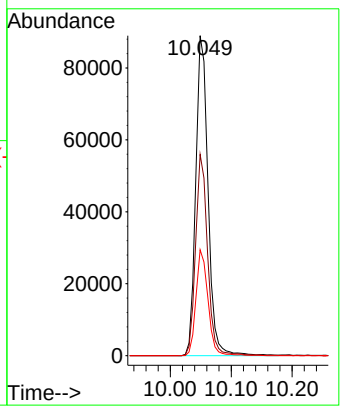


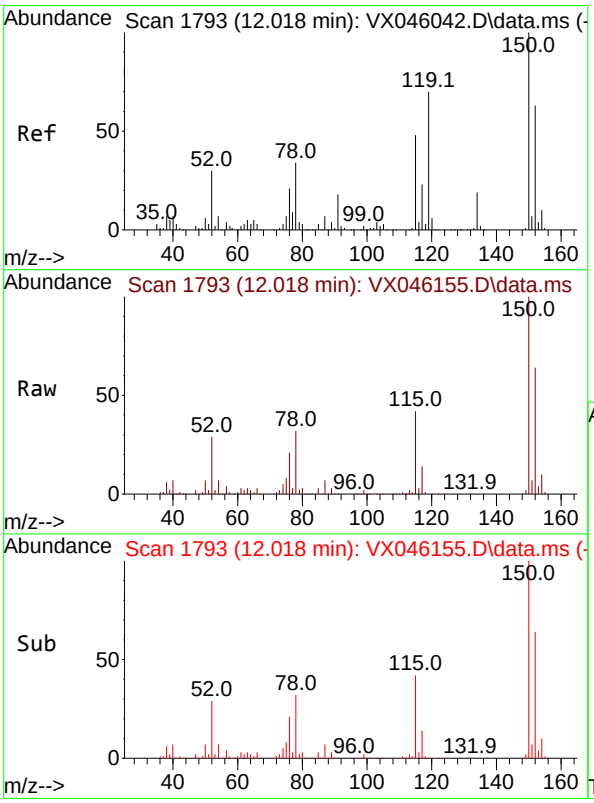

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046155.D
Acq: 13 May 2025 10:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Tgt Ion:117 Resp: 124650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 62.9 | 50.6 | 76.0 |
| 119 | 33.1 | 25.8 | 38.6 |

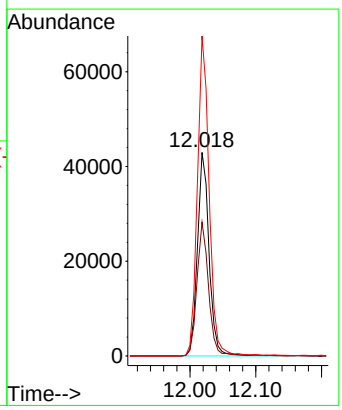



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046155.D
Acq: 13 May 2025 10:52

Tgt Ion:152 Resp: 52712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.3 | 46.9 | 140.7 |
| 150 | 158.4 | 0.0 | 351.0 |



Sample Results: **VX046155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046155.D
Acq On : 13 May 2025 10:52
Operator : JC/MD
Sample : VX0513WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046155.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.587 | 69 | 82 | 83 | rBV6 | 4658 | 11894 | 2.55% | 0.482% |
| 2 | 5.379 | 693 | 704 | 720 | rBV | 57358 | 168547 | 36.10% | 6.825% |
| 3 | 5.544 | 721 | 731 | 745 | rVV | 76846 | 222927 | 47.75% | 9.026% |
| 4 | 5.952 | 789 | 798 | 815 | rBV | 64003 | 174536 | 37.39% | 7.067% |
| 5 | 6.757 | 921 | 930 | 953 | rBV | 135353 | 337394 | 72.27% | 13.661% |
| 6 | 8.647 | 1233 | 1240 | 1256 | rBV | 294296 | 466855 | 100.00% | 18.903% |
| 7 | 10.049 | 1465 | 1470 | 1484 | rBV | 305394 | 421639 | 90.31% | 17.072% |
| 8 | 11.079 | 1634 | 1639 | 1657 | rBV | 238772 | 309326 | 66.26% | 12.525% |
| 9 | 12.018 | 1788 | 1793 | 1803 | rBV | 293221 | 356611 | 76.39% | 14.439% |

Sum of corrected areas: 2469729

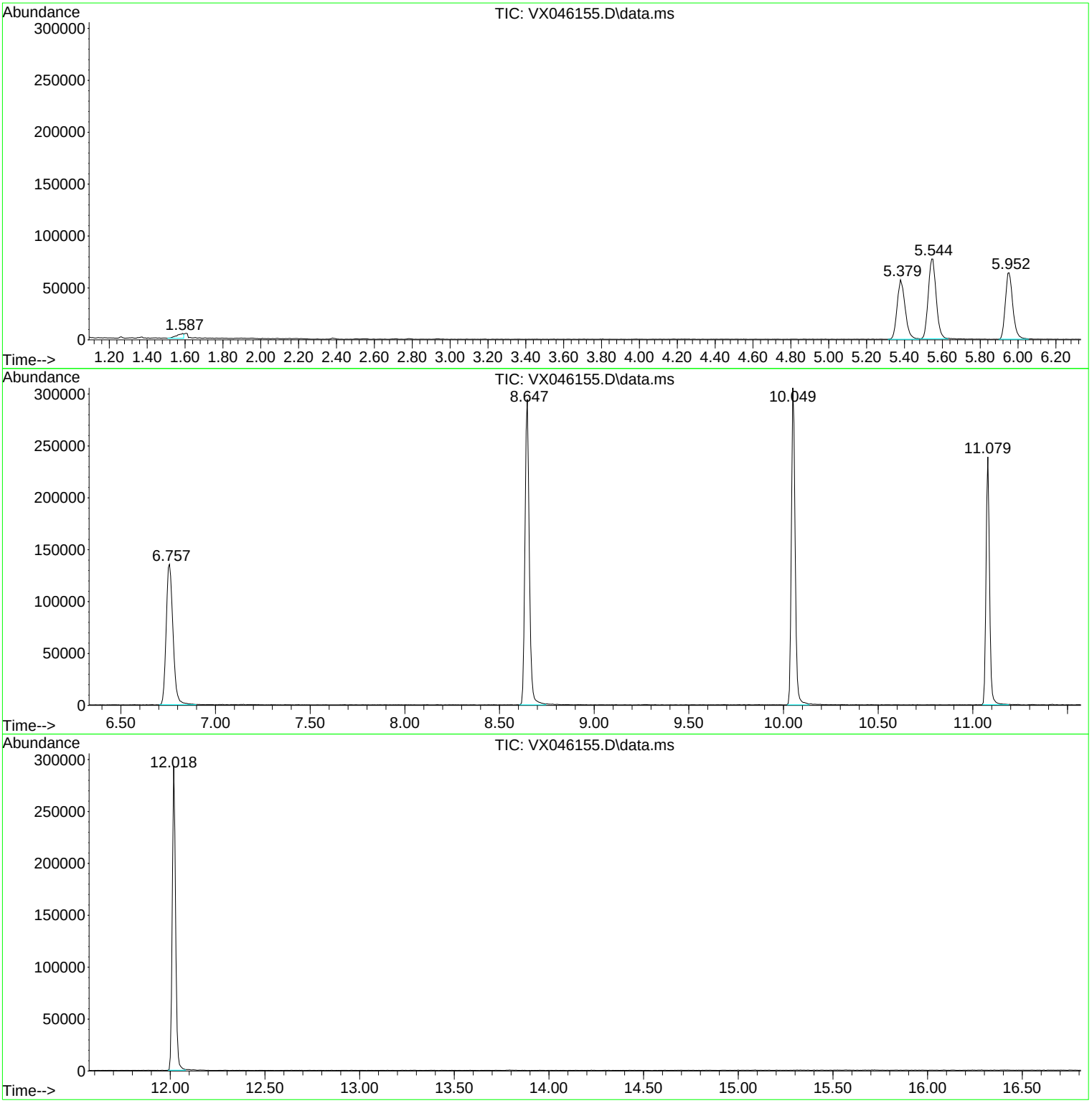
Sample Results: **VX046155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046155.D
Acq On : 13 May 2025 10:52
Operator : JC/MD
Sample : VX0513WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Sample Results: **VX046155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046155.D
Acq On : 13 May 2025 10:52
Operator : JC/MD
Sample : VX0513WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046155.D
Acq On : 13 May 2025 10:52
Operator : JC/MD
Sample : VX0513WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | |
| Client Sample ID: | VX0509WBS01 | SDG No.: | Q1993 |
| Lab Sample ID: | VX0509WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046105.D | 1 | | 05/09/25 11:18 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 20.8 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 19.8 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 18.8 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 19.8 | | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.7 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 100 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 19.9 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 20.5 | | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 19.8 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 20.2 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 20.8 | | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 100 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 20.1 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 20.5 | | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 21.1 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 20.7 | | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 20.3 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 20.5 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 20.1 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 20.8 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 21.3 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 20.3 | | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 19.9 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.2 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 21.0 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 110 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 21.2 | | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 19.2 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.9 | | 0.12 | 1.00 | ug/L |

Raw Data: **VX046105.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | |
| Client Sample ID: | VX0509WBS01 | SDG No.: | Q1993 |
| Lab Sample ID: | VX0509WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046105.D | 1 | | 05/09/25 11:18 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 20.5 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 41.0 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 20.5 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 20.9 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 20.0 | | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.9 | | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.5 | | 74 - 125 | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.3 | | 75 - 124 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.1 | | 86 - 113 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.2 | | 77 - 121 | 98% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 90300 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 161000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 141000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 64800 | 12.018 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046105.D
Acq On : 09 May 2025 11:18
Operator : JC/MD
Sample : VX0509WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 09 23:14:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 90343 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 160624 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 140930 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 64755 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 85123 | 50.540 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 101.080% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 58163 | 50.285 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.580% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 200588 | 50.105 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.200% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 75529 | 49.184 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 98.360% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 30120 | 21.783 | ug/l | 98 |
| 3) Chloromethane | 1.307 | 50 | 27895 | 20.803 | ug/l | 98 |
| 4) Vinyl Chloride | 1.374 | 62 | 24725 | 19.812 | ug/l | 99 |
| 5) Bromomethane | 1.599 | 94 | 10901 | 18.832 | ug/l | 92 |
| 6) Chloroethane | 1.672 | 64 | 13224 | 19.849 | ug/l | 93 |
| 7) Trichlorofluoromethane | 1.880 | 101 | 38890 | 21.085 | ug/l | 99 |
| 8) Diethyl Ether | 2.136 | 74 | 12359 | 19.684 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.325 | 101 | 22904 | 20.066 | ug/l | 98 |
| 10) Methyl Iodide | 2.447 | 142 | 27357 | 20.255 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.971 | 59 | 24976 | 105.641 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 21155 | 19.748 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 26536 | 98.556 | ug/l | 98 |
| 14) Allyl chloride | 2.660 | 41 | 42151 | 20.588 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 71190 | 105.305 | ug/l | 98 |
| 16) Acetone | 2.380 | 43 | 68276 | 101.102 | ug/l | 99 |
| 17) Carbon Disulfide | 2.508 | 76 | 50623 | 19.933 | ug/l | 98 |
| 18) Methyl Acetate | 2.703 | 43 | 34073 | 21.743 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 77123 | 20.535 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 25566 | 19.755 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 21766 | 20.204 | ug/l | 96 |
| 22) Diisopropyl ether | 3.757 | 45 | 81785 | 20.680 | ug/l | 89 |
| 23) Vinyl Acetate | 3.721 | 43 | 362977 | 104.354 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 45706 | 20.750 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 102302 | 104.345 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 33971 | 19.704 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.489 | 96 | 26546 | 20.469 | ug/l | 99 |
| 28) Bromochloromethane | 4.897 | 49 | 22665 | 21.377 | ug/l | 98 |
| 29) Tetrahydrofuran | 5.001 | 42 | 64945 | 105.713 | ug/l | 99 |
| 30) Chloroform | 5.092 | 83 | 48528 | 21.137 | ug/l | 95 |
| 31) Cyclohexane | 5.464 | 56 | 39864 | 19.860 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 41205 | 20.704 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 30400 | 19.561 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 38981 | 20.302 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 35030 | 20.061 | ug/l | 96 |
| 39) Methylcyclohexane | 7.379 | 83 | 39427 | 19.706 | ug/l | 97 |
| 40) Benzene | 6.031 | 78 | 92632 | 20.349 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046105.D
Acq On : 09 May 2025 11:18
Operator : JC/MD
Sample : VX0509WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 09 23:14:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 22268 | 22.170 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 40283 | 20.504 | ug/l | | 98 |
| 43) Isopropyl Acetate | 6.342 | 43 | 60196 | 20.550 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 21973 | 20.056 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 23500 | 20.761 | ug/l | | 97 |
| 46) Dibromomethane | 7.580 | 93 | 18261 | 20.455 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 37389 | 21.264 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.696 | 41 | 31464 | 21.033 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.659 | 88 | 12536 | 441.341 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 205315 | 105.595 | ug/l | | 98 |
| 52) Toluene | 8.714 | 92 | 56743 | 20.329 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 31142 | 19.926 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 34832 | 20.165 | ug/l | | 94 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 23063 | 20.955 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 37389 | 21.315 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 40489 | 20.484 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 93903 | 105.004 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 153123 | 106.446 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 25625 | 21.200 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 23964 | 20.949 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.269 | 164 | 19103 | 19.158 | ug/l | | 96 |
| 65) Chlorobenzene | 10.079 | 112 | 61415 | 19.910 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 21300 | 20.222 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 111304 | 20.470 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 81488 | 40.976 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 39647 | 20.450 | ug/l | | 97 |
| 70) Styrene | 10.652 | 104 | 66401 | 20.908 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 15820 | 20.005 | ug/l | # | 96 |
| 73) Isopropylbenzene | 10.957 | 105 | 106664 | 21.158 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 52526 | 21.085 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 36948 | 20.914 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 32155m | 20.630 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 23697 | 20.247 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 120385 | 20.537 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 77264 | 20.435 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 89922 | 21.350 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 8424 | 17.596 | ug/l | | 91 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 86575 | 20.648 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 87861 | 20.710 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 92008 | 21.572 | ug/l | | 98 |
| 85) sec-Butylbenzene | 11.890 | 105 | 107688 | 20.674 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 89757 | 20.876 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 44199 | 20.692 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 44257 | 20.288 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.329 | 91 | 75444 | 20.004 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 15748 | 20.790 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 45492 | 21.223 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 8190 | 20.926 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 23642 | 19.203 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 10826 | 20.134 | ug/l | | 100 |
| 95) Naphthalene | 13.774 | 128 | 86695 | 19.200 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 24258 | 19.096 | ug/l | | 99 |

Sample Results: **VX046105.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046105.D
Acq On : 09 May 2025 11:18
Operator : JC/MD
Sample : VX0509WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

Quant Time: May 09 23:14:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

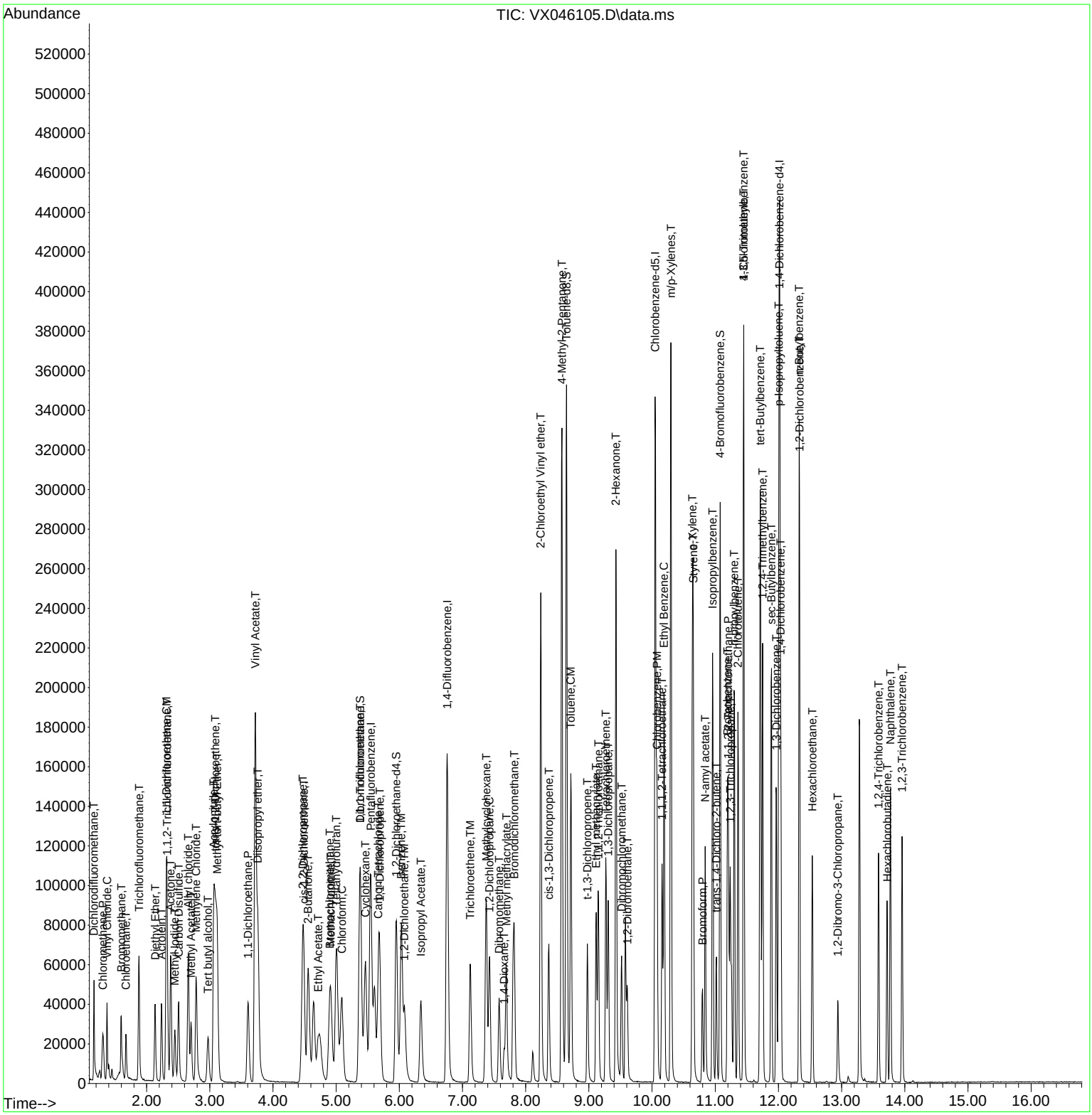
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046105.D
Acq On : 09 May 2025 11:18
Operator : JC/MD
Sample : VX0509WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 09 23:14:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0509WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025



Raw Data: **VX046158.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | |
| Client Sample ID: | VX0513WBS01 | SDG No.: | Q1993 |
| Lab Sample ID: | VX0513WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046158.D | 1 | | 05/13/25 12:02 | VX051325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 20.0 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 19.0 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 19.1 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 21.0 | | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 18.9 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 99.7 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 17.6 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 19.9 | | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 18.9 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 19.6 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 20.7 | | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 100 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 19.4 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 20.0 | | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 21.0 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 20.2 | | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 20.0 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 20.2 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 19.0 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 20.1 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 20.2 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 99.5 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 19.8 | | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 19.0 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.2 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 20.1 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 100 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 19.9 | | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 20.1 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.7 | | 0.12 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | |
| Client Sample ID: | VX0513WBS01 | SDG No.: | Q1993 |
| Lab Sample ID: | VX0513WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046158.D | 1 | | 05/13/25 12:02 | VX051325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 19.5 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 38.9 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 19.6 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 20.1 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 19.2 | | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.0 | | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.5 | | 74 - 125 | 103% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.7 | | 75 - 124 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.0 | | 86 - 113 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.3 | | 77 - 121 | 99% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 89400 | 5.544 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 161000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 140000 | 10.055 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 64300 | 12.018 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX046158.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046158.D
Acq On : 13 May 2025 12:02
Operator : JC/MD
Sample : VX0513WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 14 01:36:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 89387 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 160585 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.055 | 117 | 139963 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 64268 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 85824 | 51.501 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 103.000% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 58619 | 50.692 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.380% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 200032 | 49.978 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 99.960% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 75677 | 49.293 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 98.580% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 27952 | 20.431 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 26480 | 19.959 | ug/l | 96 |
| 4) Vinyl Chloride | 1.374 | 62 | 23484 | 19.019 | ug/l | 93 |
| 5) Bromomethane | 1.593 | 94 | 10955 | 19.128 | ug/l | 94 |
| 6) Chloroethane | 1.672 | 64 | 13846 | 21.005 | ug/l | 94 |
| 7) Trichlorofluoromethane | 1.874 | 101 | 36765 | 20.146 | ug/l | 99 |
| 8) Diethyl Ether | 2.136 | 74 | 12331 | 19.849 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.325 | 101 | 23297 | 20.629 | ug/l | 98 |
| 10) Methyl Iodide | 2.447 | 142 | 24059 | 18.004 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.971 | 59 | 23811 | 101.791 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 20042 | 18.909 | ug/l | 93 |
| 13) Acrolein | 2.233 | 56 | 34142 | 128.161 | ug/l | 96 |
| 14) Allyl chloride | 2.654 | 41 | 40337 | 19.913 | ug/l | 96 |
| 15) Acrylonitrile | 3.062 | 53 | 68205 | 101.969 | ug/l | 97 |
| 16) Acetone | 2.386 | 43 | 66592 | 99.663 | ug/l | 98 |
| 17) Carbon Disulfide | 2.502 | 76 | 44106 | 17.552 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 33890 | 21.857 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 73956 | 19.902 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 24173 | 18.879 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 20886 | 19.595 | ug/l | 99 |
| 22) Diisopropyl ether | 3.757 | 45 | 80410 | 20.550 | ug/l | 91 |
| 23) Vinyl Acetate | 3.721 | 43 | 342791 | 99.605 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 45109 | 20.698 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 99596 | 102.672 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 31303 | 18.351 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 25631 | 19.975 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 24130 | 23.002 | ug/l | 98 |
| 29) Tetrahydrofuran | 5.007 | 42 | 62866 | 103.423 | ug/l | 99 |
| 30) Chloroform | 5.086 | 83 | 47728 | 21.011 | ug/l | 98 |
| 31) Cyclohexane | 5.464 | 56 | 38655 | 19.464 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 39722 | 20.172 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 29635 | 19.074 | ug/l | 99 |
| 37) Ethyl Acetate | 4.721 | 43 | 38117 | 19.857 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 33949 | 19.447 | ug/l | 99 |
| 39) Methylcyclohexane | 7.379 | 83 | 36172 | 18.083 | ug/l | 99 |
| 40) Benzene | 6.038 | 78 | 90872 | 19.968 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046158.D
Acq On : 13 May 2025 12:02
Operator : JC/MD
Sample : VX0513WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 14 01:36:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.922 | 41 | 21351 | 21.262 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 6.086 | 62 | 39742 | 20.234 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.342 | 43 | 56227 | 19.200 | ug/l | | 100 |
| 44) Trichloroethene | 7.123 | 130 | 20762 | 18.955 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 22765 | 20.117 | ug/l | | 98 |
| 46) Dibromomethane | 7.580 | 93 | 17712 | 19.845 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 35560 | 20.229 | ug/l | | 100 |
| 48) Methyl methacrylate | 7.690 | 41 | 29941 | 20.019 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 11975 | 421.693 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 193351 | 99.466 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 55198 | 19.780 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 29751 | 19.041 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 33119 | 19.178 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 22155 | 20.135 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 35859 | 20.448 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 39143 | 19.808 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 94573 | 105.779 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 147202 | 102.355 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 24008 | 19.867 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 22444 | 19.625 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.269 | 164 | 19937 | 20.132 | ug/l | | 96 |
| 65) Chlorobenzene | 10.079 | 112 | 60473 | 19.740 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 20391 | 19.493 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 105309 | 19.502 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 76744 | 38.857 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 37747 | 19.604 | ug/l | | 94 |
| 70) Styrene | 10.653 | 104 | 63297 | 20.068 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 15044 | 19.155 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 102305 | 20.447 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 48907 | 19.781 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 35099 | 20.018 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 30566m | 19.759 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 22767 | 19.599 | ug/l | | 98 |
| 78) n-propylbenzene | 11.299 | 91 | 115599 | 19.870 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 75050 | 20.000 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 86702 | 20.742 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 8058 | 16.959 | ug/l | | 89 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 83255 | 20.007 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 83637 | 19.864 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 87926 | 20.771 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 104073 | 20.131 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 86044 | 20.164 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 41868 | 19.749 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 42098 | 19.444 | ug/l | | 97 |
| 89) n-Butylbenzene | 12.329 | 91 | 71304 | 19.049 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 14801 | 19.688 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 43655 | 20.520 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 7903 | 20.346 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 22708 | 18.584 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 10428 | 19.541 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 83959 | 18.735 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 23788 | 18.868 | ug/l | | 99 |

Sample Results: **VX046158.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046158.D
Acq On : 13 May 2025 12:02
Operator : JC/MD
Sample : VX0513WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 14 01:36:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

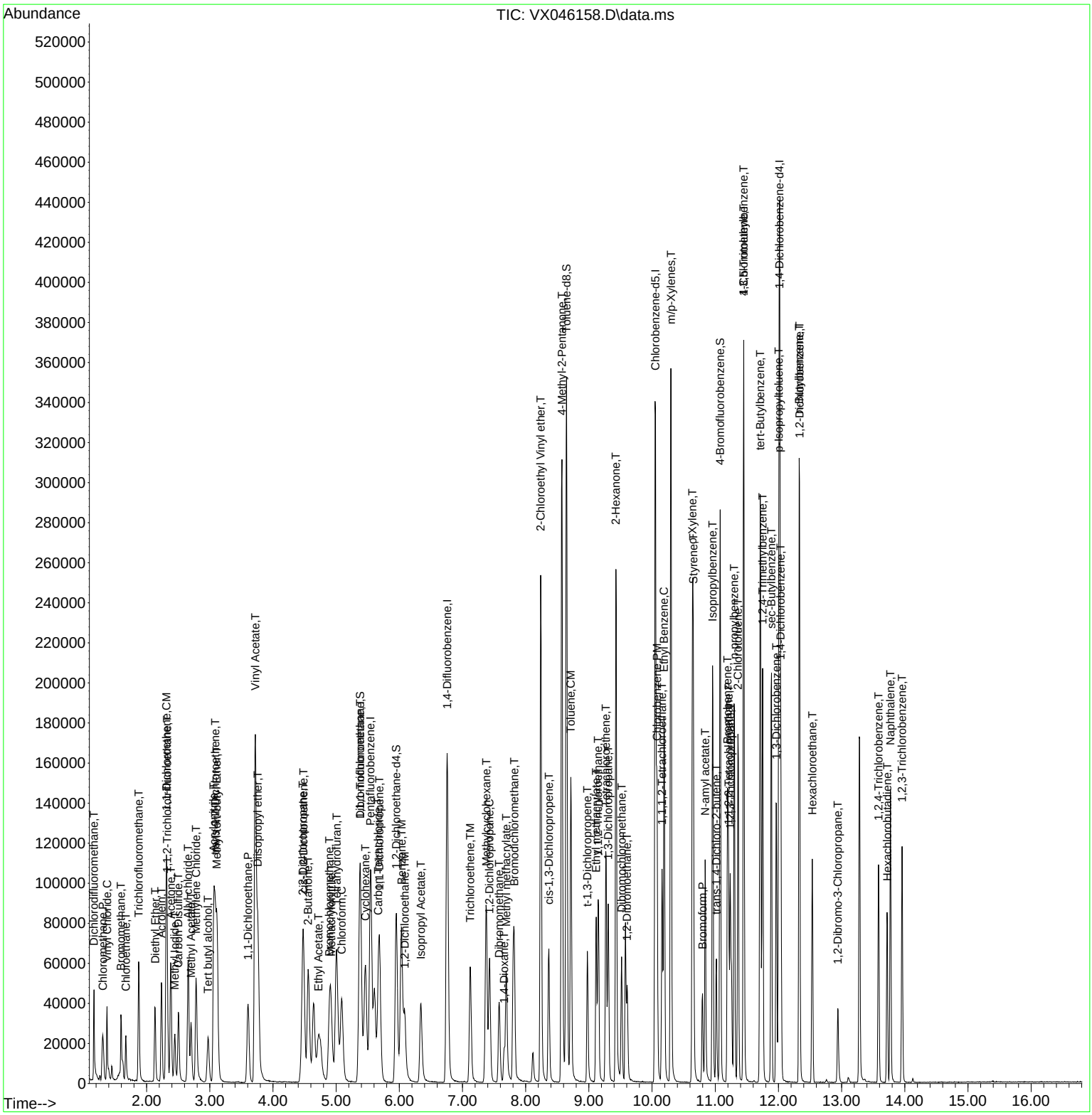
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051325\
Data File : VX046158.D
Acq On : 13 May 2025 12:02
Operator : JC/MD
Sample : VX0513WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 14 01:36:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0513WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/14/2025
Supervised By :Mahesh Dadoda 05/14/2025



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-3-20250508MS | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-02MS | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046119.D | 1 | | 05/09/25 16:47 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 54.3 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 52.4 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 49.1 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 59.8 | | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 51.5 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 260 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 56.5 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 52.6 | | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 50.3 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 52.9 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 53.8 | | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 260 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 51.4 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 53.6 | | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 53.3 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 52.3 | | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 52.0 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 51.8 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 51.8 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 52.7 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 53.2 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 270 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 52.4 | | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 51.7 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 51.8 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 52.9 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 270 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 54.4 | | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 48.0 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 49.8 | | 0.12 | 1.00 | ug/L |

Raw Data: **VX046119.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-3-20250508MS | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-02MS | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046119.D | 1 | | 05/09/25 16:47 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 52.1 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 100 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 52.1 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 53.7 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 53.0 | | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 49.3 | | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.2 | | 74 - 125 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.4 | | 75 - 124 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.6 | | 86 - 113 | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.8 | | 77 - 121 | 106% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 89500 | 5.55 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 160000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 141000 | 10.049 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 66900 | 12.018 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX046119.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046119.D
Acq On : 09 May 2025 16:47
Operator : JC/MD
Sample : Q1993-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 09 23:16:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508MS

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 5.550 | 168 | 89463 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 159939 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 140865 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 66944 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 88756 | 53.215 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 106.420% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 60317 | 52.371 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 104.740% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 209876 | 52.649 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 105.300% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 80689 | 52.770 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 105.540% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 75895 | 55.426 | ug/l | 98 |
| 3) Chloromethane | 1.307 | 50 | 72107 | 54.303 | ug/l | 98 |
| 4) Vinyl Chloride | 1.374 | 62 | 64758 | 52.400 | ug/l | 99 |
| 5) Bromomethane | 1.599 | 94 | 28125 | 49.066 | ug/l | 98 |
| 6) Chloroethane | 1.672 | 64 | 39474 | 59.832 | ug/l | 94 |
| 7) Trichlorofluoromethane | 1.880 | 101 | 100313 | 54.922 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 32012 | 51.486 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.325 | 101 | 57390 | 50.774 | ug/l | 98 |
| 10) Methyl Iodide | 2.447 | 142 | 72310 | 54.066 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.971 | 59 | 56320 | 240.561 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 54633 | 51.501 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 82812 | 310.593 | ug/l | 100 |
| 14) Allyl chloride | 2.660 | 41 | 109789 | 54.153 | ug/l | 97 |
| 15) Acrylonitrile | 3.062 | 53 | 177127 | 264.586 | ug/l | 97 |
| 16) Acetone | 2.380 | 43 | 170594 | 255.097 | ug/l | 97 |
| 17) Carbon Disulfide | 2.508 | 76 | 142141 | 56.518 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 78688 | 50.707 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 195761 | 52.636 | ug/l | 98 |
| 20) Methylene Chloride | 2.788 | 84 | 64471 | 50.308 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 56413 | 52.880 | ug/l | 97 |
| 22) Diisopropyl ether | 3.757 | 45 | 210894 | 53.851 | ug/l | 96 |
| 23) Vinyl Acetate | 3.721 | 43 | 915553 | 265.806 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 117441 | 53.841 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 256138 | 263.824 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 77210 | 45.224 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 68836 | 53.600 | ug/l | 97 |
| 28) Bromochloromethane | 4.891 | 49 | 55529 | 52.888 | ug/l | 98 |
| 29) Tetrahydrofuran | 5.001 | 42 | 163150 | 268.176 | ug/l | 98 |
| 30) Chloroform | 5.086 | 83 | 121210 | 53.314 | ug/l | 92 |
| 31) Cyclohexane | 5.464 | 56 | 104273 | 52.460 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 103138 | 52.333 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 78794 | 50.918 | ug/l | 100 |
| 37) Ethyl Acetate | 4.715 | 43 | 94082 | 49.209 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 89439 | 51.440 | ug/l | 98 |
| 39) Methylcyclohexane | 7.379 | 83 | 99052 | 49.719 | ug/l | 99 |
| 40) Benzene | 6.031 | 78 | 235780 | 52.018 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046119.D
Acq On : 09 May 2025 16:47
Operator : JC/MD
Sample : Q1993-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 09 23:16:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508MS

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 56784 | 56.776 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 101300 | 51.782 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 152703 | 52.355 | ug/l | | 99 |
| 44) Trichloroethene | 7.117 | 130 | 56560 | 51.846 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 59360 | 52.667 | ug/l | | 98 |
| 46) Dibromomethane | 7.580 | 93 | 45520 | 51.207 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 93114 | 53.183 | ug/l | | 97 |
| 48) Methyl methacrylate | 7.690 | 41 | 81296 | 54.576 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 27908 | 986.734 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 517284 | 267.183 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 145518 | 52.357 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 80470 | 51.709 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 89145 | 51.828 | ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 57966 | 52.893 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 94760 | 54.253 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 100895 | 51.263 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 386611 | 269.910 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 65472 | 54.399 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 59872 | 52.564 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.269 | 164 | 47879 | 48.039 | ug/l | | 95 |
| 65) Chlorobenzene | 10.073 | 112 | 153394 | 49.752 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 53060 | 50.398 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 282897 | 52.053 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 206356 | 103.814 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 100981 | 52.109 | ug/l | | 96 |
| 70) Styrene | 10.652 | 104 | 170348 | 53.662 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 41859 | 52.957 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 271476 | 52.089 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 135448 | 52.593 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 89960 | 49.256 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 79301m | 49.213 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 60827 | 50.271 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 317919 | 52.462 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 195256 | 49.954 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 228563 | 52.494 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 22991 | 46.452 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 226421 | 52.235 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 228954 | 52.203 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 230596 | 52.298 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 285435 | 53.005 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 234655 | 52.791 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 113078 | 51.207 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 113224 | 50.205 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 206967 | 53.082 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 40449 | 51.653 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 113955 | 51.424 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 20926 | 51.719 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 64042 | 50.317 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 27737 | 49.898 | ug/l | | 97 |
| 95) Naphthalene | 13.774 | 128 | 236038 | 50.564 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 65670 | 50.005 | ug/l | | 99 |

Sample Results: **VX046119.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046119.D
Acq On : 09 May 2025 16:47
Operator : JC/MD
Sample : Q1993-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508MS

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

Quant Time: May 09 23:16:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

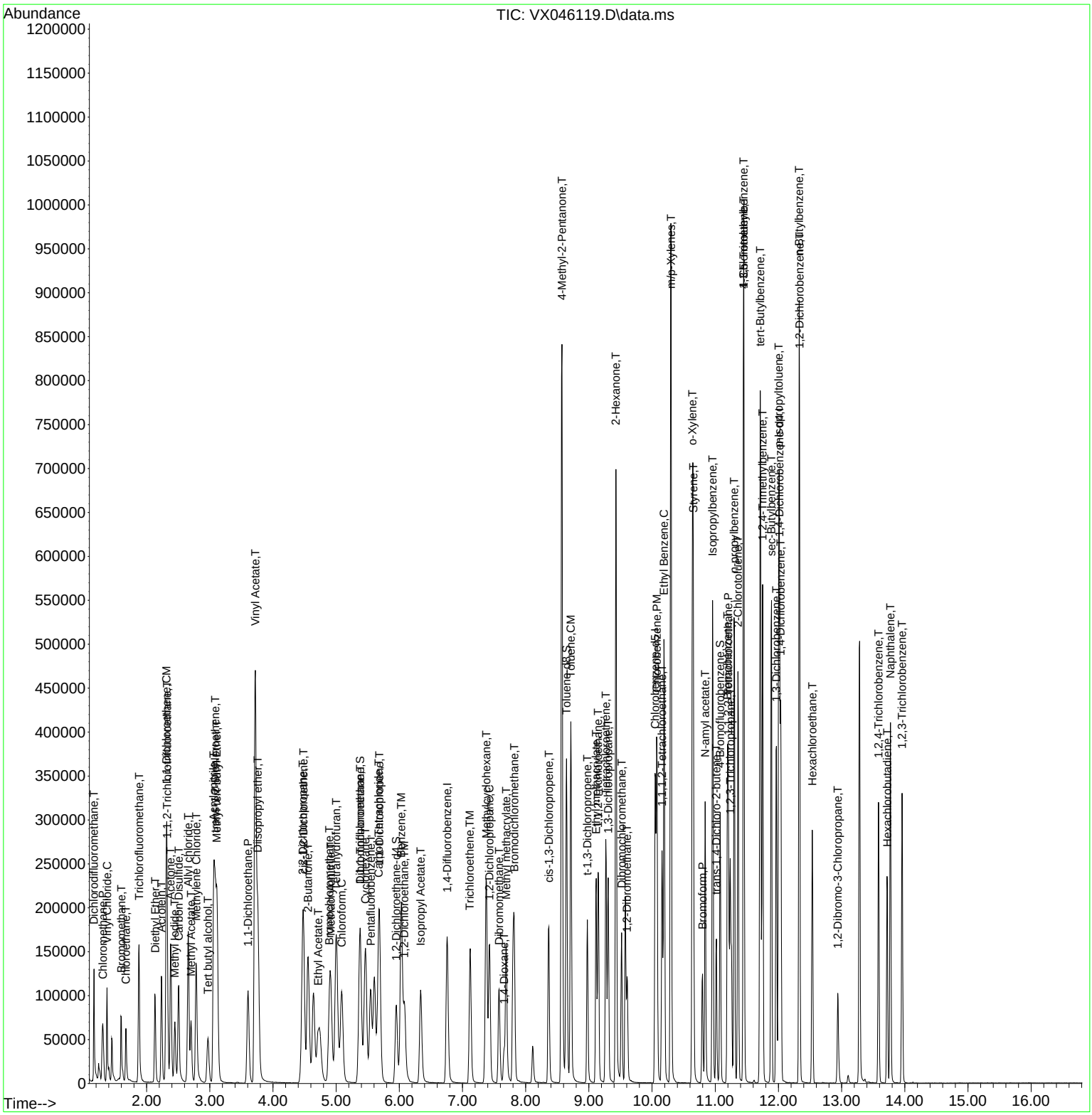
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046119.D
Acq On : 09 May 2025 16:47
Operator : JC/MD
Sample : Q1993-02MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 09 23:16:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508MS

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025



Raw Data: **VX046120.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-3-20250508MSD | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-03MSD | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046120.D | 1 | | 05/09/25 17:10 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 74-87-3 | Chloromethane | 53.7 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 52.2 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 49.0 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 59.6 | | 0.47 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 52.0 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 250 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 56.7 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 53.9 | | 0.16 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 49.5 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 52.8 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 53.7 | | 0.23 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 270 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 52.6 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 53.3 | | 0.19 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 54.0 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 54.2 | | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 52.9 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 53.0 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 51.6 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 55.0 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 53.9 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 270 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 53.5 | | 0.14 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 54.4 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 54.1 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 53.6 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 280 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 55.6 | | 0.18 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 47.6 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 50.7 | | 0.12 | 1.00 | ug/L |

Raw Data: **VX046120.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PARSONS Engineering of New York, Inc. | Date Collected: | 05/08/25 |
| Project: | Con Ed Non-MGP - East River M0SF 454453 | Date Received: | 05/09/25 |
| Client Sample ID: | MW-3-20250508MSD | SDG No.: | Q1993 |
| Lab Sample ID: | Q1993-03MSD | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX046120.D | 1 | | 05/09/25 17:10 | VX050925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 100-41-4 | Ethyl Benzene | 52.1 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 100 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 52.7 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 53.8 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 52.8 | | 0.19 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 51.7 | | 0.26 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.3 | | 74 - 125 | 103% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.1 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.7 | | 86 - 113 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.2 | | 77 - 121 | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 86600 | 5.549 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 154000 | 6.757 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 139000 | 10.055 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 65100 | 12.018 | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Sample Results: **VX046120.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046120.D
Acq On : 09 May 2025 17:10
Operator : JC/MD
Sample : Q1993-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 09 23:17:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508MSD

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.549 | 168 | 86597 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 154131 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.055 | 117 | 138745 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 65108 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 82850 | 51.318 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 102.640% | | | |
| 35) Dibromofluoromethane | 5.385 | 113 | 56766 | 51.145 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.280% | | | |
| 50) Toluene-d8 | 8.646 | 98 | 194923 | 50.741 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.480% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 75516 | 51.247 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 72101 | 54.398 | ug/l | 97 |
| 3) Chloromethane | 1.306 | 50 | 68987 | 53.673 | ug/l | 99 |
| 4) Vinyl Chloride | 1.373 | 62 | 62452 | 52.207 | ug/l | 98 |
| 5) Bromomethane | 1.599 | 94 | 27184 | 48.994 | ug/l | 95 |
| 6) Chloroethane | 1.672 | 64 | 38062 | 59.602 | ug/l | 95 |
| 7) Trichlorofluoromethane | 1.879 | 101 | 95791 | 54.182 | ug/l | 99 |
| 8) Diethyl Ether | 2.135 | 74 | 31452 | 52.260 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.324 | 101 | 55930 | 51.120 | ug/l | 98 |
| 10) Methyl Iodide | 2.446 | 142 | 72169 | 55.746 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.971 | 59 | 56286 | 248.372 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 53442 | 52.046 | ug/l | 95 |
| 13) Acrolein | 2.233 | 56 | 79902 | 309.597 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 107021 | 54.534 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 172117 | 265.611 | ug/l | 98 |
| 16) Acetone | 2.379 | 43 | 163355 | 252.357 | ug/l | 100 |
| 17) Carbon Disulfide | 2.507 | 76 | 138063 | 56.714 | ug/l | 99 |
| 18) Methyl Acetate | 2.702 | 43 | 76041 | 50.623 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 193936 | 53.871 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 61380 | 49.481 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 3.086 | 96 | 54509 | 52.787 | ug/l | 97 |
| 22) Diisopropyl ether | 3.763 | 45 | 206626 | 54.508 | ug/l | 91 |
| 23) Vinyl Acetate | 3.720 | 43 | 894331 | 268.238 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 113417 | 53.717 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 249070 | 265.034 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 4.470 | 77 | 75638 | 45.770 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.489 | 96 | 66310 | 53.342 | ug/l | 98 |
| 28) Bromochloromethane | 4.891 | 49 | 53960 | 53.094 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 156768 | 266.214 | ug/l | 100 |
| 30) Chloroform | 5.086 | 83 | 118786 | 53.977 | ug/l | 97 |
| 31) Cyclohexane | 5.464 | 56 | 101541 | 52.776 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 103346 | 54.174 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 77218 | 51.780 | ug/l | 99 |
| 37) Ethyl Acetate | 4.714 | 43 | 92181 | 50.031 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.671 | 117 | 88081 | 52.568 | ug/l | 98 |
| 39) Methylcyclohexane | 7.378 | 83 | 96121 | 50.066 | ug/l | 97 |
| 40) Benzene | 6.031 | 78 | 230961 | 52.875 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046120.D
Acq On : 09 May 2025 17:10
Operator : JC/MD
Sample : Q1993-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 09 23:17:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508MSD

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.915 | 41 | 54503 | 56.549 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 99889 | 52.985 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 150499 | 53.543 | ug/l | | 99 |
| 44) Trichloroethene | 7.122 | 130 | 54203 | 51.557 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 59777 | 55.036 | ug/l | | 98 |
| 46) Dibromomethane | 7.580 | 93 | 45266 | 52.840 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.817 | 83 | 91012 | 53.941 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.689 | 41 | 79461 | 55.355 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 25899 | 950.208 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.573 | 43 | 507057 | 271.769 | ug/l | | 99 |
| 52) Toluene | 8.713 | 92 | 143269 | 53.490 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 81571 | 54.391 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 89591 | 54.050 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 9.146 | 97 | 56634 | 53.625 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 95230 | 56.576 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 99699 | 52.565 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 380074 | 275.345 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 64439 | 55.558 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 59567 | 54.266 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.268 | 164 | 46770 | 47.643 | ug/l | | 97 |
| 65) Chlorobenzene | 10.079 | 112 | 153983 | 50.706 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131 | 53370 | 51.467 | ug/l | | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 278736 | 52.071 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 203238 | 103.807 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 100643 | 52.729 | ug/l | | 96 |
| 70) Styrene | 10.652 | 104 | 168268 | 53.817 | ug/l | | 99 |
| 71) Bromoform | 10.798 | 173 | 41102 | 52.794 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.957 | 105 | 268947 | 53.059 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 135505 | 54.099 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 91901 | 51.737 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.237 | 75 | 78918m | 50.357 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 61162 | 51.973 | ug/l | | 98 |
| 78) n-propylbenzene | 11.298 | 91 | 314166 | 53.305 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.359 | 91 | 193821 | 50.985 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 226104 | 53.394 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 22854 | 47.477 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 222536 | 52.787 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 226169 | 53.023 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 229404 | 53.494 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 279485 | 53.364 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 231683 | 53.592 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 111143 | 51.750 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 111422 | 50.800 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 204082 | 53.818 | ug/l | | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 39471 | 51.825 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 113212 | 52.530 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75 | 21149 | 53.745 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 64961 | 52.479 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 28205 | 52.171 | ug/l | | 97 |
| 95) Naphthalene | 13.774 | 128 | 240806 | 53.041 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.956 | 180 | 67774 | 53.062 | ug/l | | 99 |

Sample Results: **VX046120.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046120.D
Acq On : 09 May 2025 17:10
Operator : JC/MD
Sample : Q1993-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508MSD

Quant Time: May 09 23:17:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

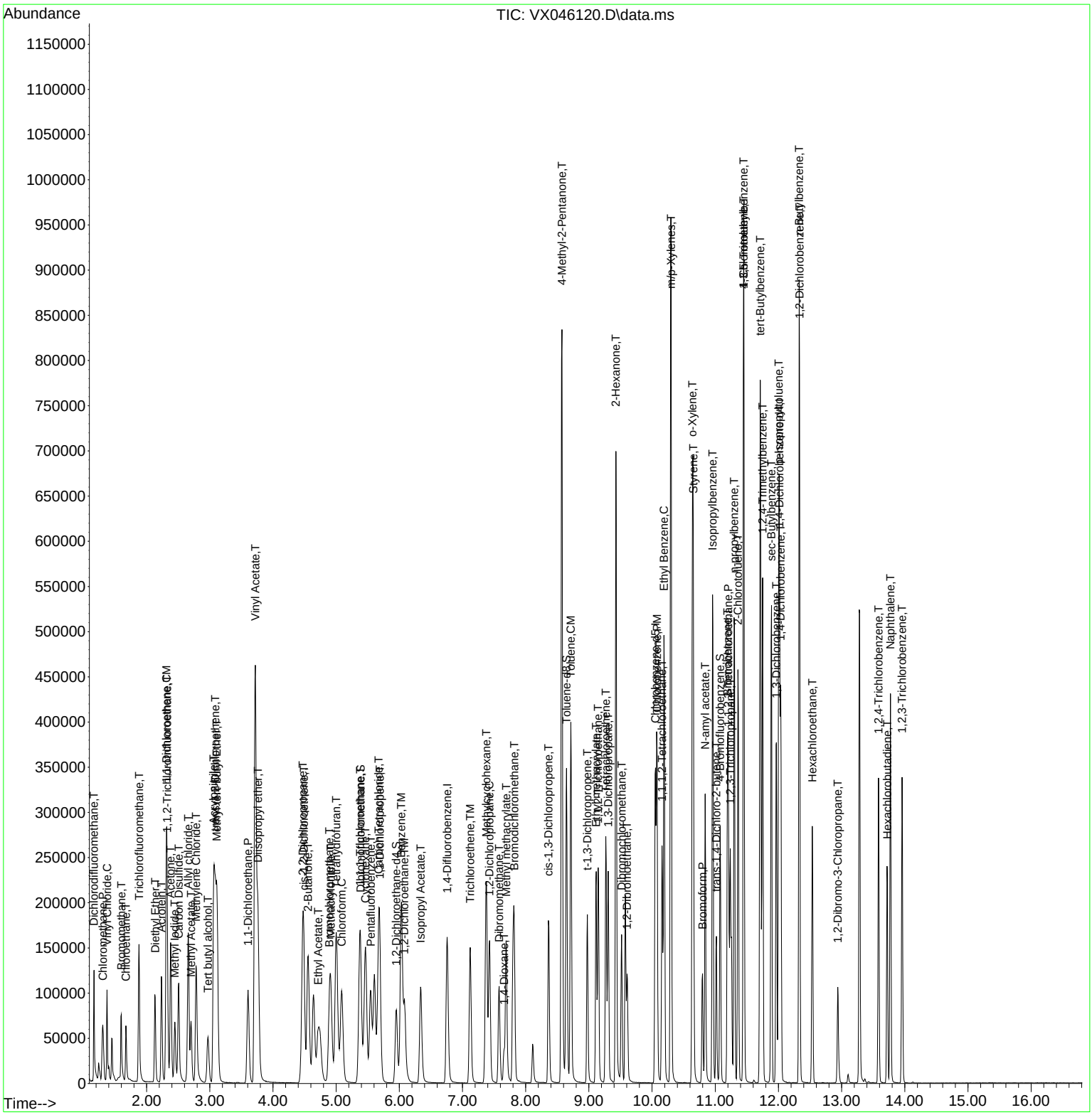
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050925\
Data File : VX046120.D
Acq On : 09 May 2025 17:10
Operator : JC/MD
Sample : Q1993-03MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 09 23:17:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
MW-3-20250508MSD

**Manual Integrations APPROVED**

Reviewed By :John Carlone 05/12/2025
Supervised By :Mahesh Dadoda 05/12/2025



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

# Manual Integration Report

| Sequence: | VX050525 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC020 | VX046041.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:13 AM | MMDadoda | 5/6/2025 12:42:46 PM | Peak Integrated by Software |
| VSTDICCC050 | VX046042.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:18 AM | MMDadoda | 5/6/2025 12:42:48 PM | Peak Integrated by Software |
| VSTDICC100 | VX046043.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:22 AM | MMDadoda | 5/6/2025 12:42:50 PM | Peak Integrated by Software |
| VSTDICC150 | VX046044.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:27 AM | MMDadoda | 5/6/2025 12:42:53 PM | Peak Integrated by Software |
| VSTDICC005 | VX046046.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:32 AM | MMDadoda | 5/6/2025 12:42:56 PM | Peak Integrated by Software |
| VSTDICC005 | VX046046.D | Ethyl Acetate | JOHN | 5/6/2025 9:53:32 AM | MMDadoda | 5/6/2025 12:42:56 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | 1,4-Dichlorobenzene | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Bromochloromethane | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Ethyl Acetate | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICC001 | VX046047.D | Methyl methacrylate | JOHN | 5/6/2025 9:53:38 AM | MMDadoda | 5/6/2025 12:41:35 PM | Peak Integrated by Software |
| VSTDICV050 | VX046048.D | 1,2,3-Trichloropropane | JOHN | 5/6/2025 9:53:45 AM | MMDadoda | 5/6/2025 12:41:37 PM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | VX050525 | Instrument | MSVOA_x |
|---|---|---|---|

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

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

# Manual Integration Report

| Sequence: | VX050925 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VX046102.D | 1,2,3-Trichloropropane | JOHN | 5/12/2025 9:59:29 AM | MMDadoda | 5/12/2025 1:58:45 PM | Peak Integrated by Software |
| VX0509WBS01 | VX046105.D | 1,2,3-Trichloropropane | JOHN | 5/12/2025 9:59:33 AM | MMDadoda | 5/12/2025 1:58:45 PM | Peak Integrated by Software |
| Q1993-02MS | VX046119.D | 1,2,3-Trichloropropane | JOHN | 5/12/2025 10:00:03 AM | MMDadoda | 5/12/2025 1:58:49 PM | Peak Integrated by Software |
| Q1993-03MSD | VX046120.D | 1,2,3-Trichloropropane | JOHN | 5/12/2025 10:00:08 AM | MMDadoda | 5/12/2025 1:58:50 PM | Peak Integrated by Software |
| VSTDCCC050 | VX046123.D | 1,2,3-Trichloropropane | JOHN | 5/12/2025 10:00:13 AM | MMDadoda | 5/12/2025 1:58:52 PM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | VX051325 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VX046153.D | 1,2,3-Trichloropropane | JOHN | 5/14/2025 9:49:44 AM | MMDadoda | 5/14/2025 12:35:41 PM | Peak Integrated by Software |
| VX0513WBS01 | VX046158.D | 1,2,3-Trichloropropane | JOHN | 5/14/2025 9:49:49 AM | MMDadoda | 5/14/2025 12:35:43 PM | Peak Integrated by Software |
| VSTDCCC050 | VX046179.D | 1,2,3-Trichloropropane | JOHN | 5/14/2025 9:50:11 AM | MMDadoda | 5/14/2025 12:35:46 PM | Peak Integrated by Software |

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

**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/6/2025 9:53:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/6/2025 12:43:00 PM | | |
| SubDirectory | VX050525 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133811 |
| Initial Calibration Stds | VP133832,VP133833,VP133834,VP133835,VP133836,VP133837 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP133838 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX046038.D | 05 May 2025 09:37 | JC/MD | Ok |
| 2 | VSTDICC001 | VX046039.D | 05 May 2025 10:49 | JC/MD | Not Ok |
| 3 | VSTDICC005 | VX046040.D | 05 May 2025 11:12 | JC/MD | Not Ok |
| 4 | VSTDICC020 | VX046041.D | 05 May 2025 11:35 | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VX046042.D | 05 May 2025 11:58 | JC/MD | Ok,M |
| 6 | VSTDICC100 | VX046043.D | 05 May 2025 12:21 | JC/MD | Ok,M |
| 7 | VSTDICC150 | VX046044.D | 05 May 2025 12:45 | JC/MD | Ok,M |
| 8 | IBLK | VX046045.D | 05 May 2025 13:08 | JC/MD | Ok |
| 9 | VSTDICC005 | VX046046.D | 05 May 2025 16:04 | JC/MD | Ok,M |
| 10 | VSTDICC001 | VX046047.D | 05 May 2025 16:27 | JC/MD | Ok,M |
| 11 | VSTDICV050 | VX046048.D | 05 May 2025 16:50 | JC/MD | Ok,M |

M : Manual Integration

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

**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050925

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/12/2025 10:04:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/12/2025 1:58:57 PM | | |
| SubDirectory | VX050925 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133879 |
| Initial Calibration Stds | |
| CCC | VP133880,VP133881 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX046101.D | 09 May 2025 09:36 | JC/MD | Ok |
| 2 | VSTDCCC050 | VX046102.D | 09 May 2025 10:05 | JC/MD | Ok,M |
| 3 | VX0509MBL01 | VX046103.D | 09 May 2025 10:32 | JC/MD | Ok |
| 4 | VX0509WBL01 | VX046104.D | 09 May 2025 10:55 | JC/MD | Ok |
| 5 | VX0509WBS01 | VX046105.D | 09 May 2025 11:18 | JC/MD | Ok,M |
| 6 | VX0509WBSD01 | VX046106.D | 09 May 2025 11:44 | JC/MD | Ok,M |
| 7 | IBLK | VX046107.D | 09 May 2025 12:08 | JC/MD | Ok |
| 8 | Q1994-01 | VX046108.D | 09 May 2025 12:31 | JC/MD | Ok |
| 9 | Q1994-02 | VX046109.D | 09 May 2025 12:54 | JC/MD | Ok |
| 10 | Q1994-03 | VX046110.D | 09 May 2025 13:18 | JC/MD | Ok |
| 11 | Q1994-04 | VX046111.D | 09 May 2025 13:41 | JC/MD | Ok |
| 12 | Q1993-08 | VX046112.D | 09 May 2025 14:04 | JC/MD | ReRun |
| 13 | Q1993-09 | VX046113.D | 09 May 2025 14:27 | JC/MD | ReRun |
| 14 | Q1993-04 | VX046114.D | 09 May 2025 14:51 | JC/MD | Ok |
| 15 | Q1993-05 | VX046115.D | 09 May 2025 15:14 | JC/MD | Ok |
| 16 | Q1993-06 | VX046116.D | 09 May 2025 15:37 | JC/MD | Ok |
| 17 | Q1993-07 | VX046117.D | 09 May 2025 16:01 | JC/MD | Ok |
| 18 | Q1993-01 | VX046118.D | 09 May 2025 16:24 | JC/MD | Ok |
| 19 | Q1993-02MS | VX046119.D | 09 May 2025 16:47 | JC/MD | Ok,M |
| 20 | Q1993-03MSD | VX046120.D | 09 May 2025 17:10 | JC/MD | Ok,M |
| 21 | Q2005-01 | VX046121.D | 09 May 2025 17:34 | JC/MD | Ok |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050925

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/12/2025 10:04:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/12/2025 1:58:57 PM | | |
| SubDirectory | VX050925 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133879 |
| Initial Calibration Stds | |
| CCC | VP133880,VP133881 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1989-01 | VX046122.D | 09 May 2025 17:57 | JC/MD | Ok |
| 23 | VSTDCCC050 | VX046123.D | 09 May 2025 18:20 | JC/MD | Ok,M |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX051325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/14/2025 9:56:56 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/14/2025 12:35:50 PM | | |
| SubDirectory | VX051325 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133901 |
| Initial Calibration Stds | |
| CCC | VP133902,VP133903 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX046152.D | 13 May 2025 09:29 | JC/MD | Ok |
| 2 | VSTDCCC050 | VX046153.D | 13 May 2025 10:00 | JC/MD | Ok,M |
| 3 | VX0513MBL01 | VX046154.D | 13 May 2025 10:29 | JC/MD | Ok |
| 4 | VX0513WBL01 | VX046155.D | 13 May 2025 10:52 | JC/MD | Ok |
| 5 | Q1993-08 | VX046156.D | 13 May 2025 11:16 | JC/MD | Ok |
| 6 | Q1993-09 | VX046157.D | 13 May 2025 11:39 | JC/MD | Ok |
| 7 | VX0513WBS01 | VX046158.D | 13 May 2025 12:02 | JC/MD | Ok,M |
| 8 | VX0513WBSD01 | VX046159.D | 13 May 2025 12:28 | JC/MD | Ok,M |
| 9 | Q2013-02 | VX046160.D | 13 May 2025 12:51 | JC/MD | Ok |
| 10 | Q2013-03 | VX046161.D | 13 May 2025 13:15 | JC/MD | Ok |
| 11 | Q2013-01 | VX046162.D | 13 May 2025 13:38 | JC/MD | Ok |
| 12 | Q2001-01 | VX046163.D | 13 May 2025 14:01 | JC/MD | Ok |
| 13 | Q2001-05 | VX046164.D | 13 May 2025 14:25 | JC/MD | Dilution |
| 14 | Q2001-09 | VX046165.D | 13 May 2025 14:48 | JC/MD | Dilution |
| 15 | Q2001-13 | VX046166.D | 13 May 2025 15:11 | JC/MD | Dilution |
| 16 | IBLK | VX046167.D | 13 May 2025 15:35 | JC/MD | Ok |
| 17 | IBLK | VX046168.D | 13 May 2025 15:58 | JC/MD | Ok |
| 18 | Q2007-18 | VX046169.D | 13 May 2025 16:22 | JC/MD | Ok |
| 19 | Q2007-24 | VX046170.D | 13 May 2025 16:45 | JC/MD | Ok |
| 20 | Q2007-30 | VX046171.D | 13 May 2025 17:08 | JC/MD | Ok |
| 21 | Q2007-36 | VX046172.D | 13 May 2025 17:32 | JC/MD | Ok |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX051325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/14/2025 9:56:56 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/14/2025 12:35:50 PM | | |
| SubDirectory | VX051325 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133901 |
| Initial Calibration Stds | |
| CCC | VP133902,VP133903 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2017-04 | VX046173.D | 13 May 2025 17:55 | JC/MD | Ok |
| 23 | Q2017-08 | VX046174.D | 13 May 2025 18:18 | JC/MD | Ok |
| 24 | Q2007-06 | VX046175.D | 13 May 2025 18:42 | JC/MD | Ok |
| 25 | Q2007-12 | VX046176.D | 13 May 2025 19:05 | JC/MD | Ok |
| 26 | Q2018-04 | VX046177.D | 13 May 2025 19:28 | JC/MD | Dilution |
| 27 | Q2018-05 | VX046178.D | 13 May 2025 19:52 | JC/MD | Ok |
| 28 | VSTDCCC050 | VX046179.D | 13 May 2025 20:15 | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/6/2025 9:53:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/6/2025 12:43:00 PM | | |
| SubDirectory | VX050525 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133811 |
| Initial Calibration Stds | VP133832,VP133833,VP133834,VP133835,VP133836,VP133837 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP133838 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX046038.D | 05 May 2025 09:37 | | JC/MD | Ok |
| 2 | VSTDICC001 | VSTDICC001 | VX046039.D | 05 May 2025 10:49 | Not used | JC/MD | Not Ok |
| 3 | VSTDICC005 | VSTDICC005 | VX046040.D | 05 May 2025 11:12 | Not used | JC/MD | Not Ok |
| 4 | VSTDICC020 | VSTDICC020 | VX046041.D | 05 May 2025 11:35 | | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VX046042.D | 05 May 2025 11:58 | | JC/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VX046043.D | 05 May 2025 12:21 | | JC/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VX046044.D | 05 May 2025 12:45 | | JC/MD | Ok,M |
| 8 | IBLK | IBLK | VX046045.D | 05 May 2025 13:08 | | JC/MD | Ok |
| 9 | VSTDICC005 | VSTDICC005 | VX046046.D | 05 May 2025 16:04 | | JC/MD | Ok,M |
| 10 | VSTDICC001 | VSTDICC001 | VX046047.D | 05 May 2025 16:27 | | JC/MD | Ok,M |
| 11 | VSTDICV050 | ICVVX050525 | VX046048.D | 05 May 2025 16:50 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050925

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/12/2025 10:04:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/12/2025 1:58:57 PM | | |
| SubDirectory | VX050925 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133879 |
| Initial Calibration Stds | |
| CCC | VP133880,VP133881 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX046101.D | 09 May 2025 09:36 | | JC/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VX046102.D | 09 May 2025 10:05 | pH#Lot#V12668 | JC/MD | Ok,M |
| 3 | VX0509MBL01 | VX0509MBL01 | VX046103.D | 09 May 2025 10:32 | | JC/MD | Ok |
| 4 | VX0509WBL01 | VX0509WBL01 | VX046104.D | 09 May 2025 10:55 | | JC/MD | Ok |
| 5 | VX0509WBS01 | VX0509WBS01 | VX046105.D | 09 May 2025 11:18 | | JC/MD | Ok,M |
| 6 | VX0509WBSD01 | VX0509WBSD01 | VX046106.D | 09 May 2025 11:44 | | JC/MD | Ok,M |
| 7 | IBLK | IBLK | VX046107.D | 09 May 2025 12:08 | | JC/MD | Ok |
| 8 | Q1994-01 | STORAGE-BLANK-SO | VX046108.D | 09 May 2025 12:31 | vial A pH<2 | JC/MD | Ok |
| 9 | Q1994-02 | STORAGE-BLANK-WA | VX046109.D | 09 May 2025 12:54 | vial A pH<2 | JC/MD | Ok |
| 10 | Q1994-03 | STORAGE-BLANK-WA | VX046110.D | 09 May 2025 13:18 | vial A pH<2 | JC/MD | Ok |
| 11 | Q1994-04 | STORAGE-BLANK-SA | VX046111.D | 09 May 2025 13:41 | vial A pH<2 | JC/MD | Ok |
| 12 | Q1993-08 | EB-20250508 | VX046112.D | 09 May 2025 14:04 | vial A pH<2 EB;Contamination of sulfur dioxide tics | JC/MD | ReRun |
| 13 | Q1993-09 | TB | VX046113.D | 09 May 2025 14:27 | vial A pH<2 TB;Contamination of sulfur dioxide tics | JC/MD | ReRun |
| 14 | Q1993-04 | MW-3-20250508-A | VX046114.D | 09 May 2025 14:51 | vial A pH<2 | JC/MD | Ok |
| 15 | Q1993-05 | MW-2-20250508 | VX046115.D | 09 May 2025 15:14 | vial A pH<2 | JC/MD | Ok |
| 16 | Q1993-06 | MW-1-20250508 | VX046116.D | 09 May 2025 15:37 | vial A pH<2 | JC/MD | Ok |
| 17 | Q1993-07 | MW-4-20250508 | VX046117.D | 09 May 2025 16:01 | vial A pH<2 | JC/MD | Ok |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX050925

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/12/2025 10:04:58 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/12/2025 1:58:57 PM | | |
| SubDirectory | VX050925 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133879 |
| Initial Calibration Stds | |
| CCC | VP133880,VP133881 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q1993-01 | MW-3-20250508 | VX046118.D | 09 May 2025 16:24 | vial A pH<2 | JC/MD | Ok |
| 19 | Q1993-02MS | MW-3-20250508MS | VX046119.D | 09 May 2025 16:47 | vial A pH<2 | JC/MD | Ok,M |
| 20 | Q1993-03MSD | MW-3-20250508MSD | VX046120.D | 09 May 2025 17:10 | vial A pH<2 | JC/MD | Ok,M |
| 21 | Q2005-01 | 252806 | VX046121.D | 09 May 2025 17:34 | vial A pH<2 | JC/MD | Ok |
| 22 | Q1989-01 | 50225 | VX046122.D | 09 May 2025 17:57 | vial A pH<2 | JC/MD | Ok |
| 23 | VSTDCCC050 | VSTDCCC050EC | VX046123.D | 09 May 2025 18:20 | | JC/MD | Ok,M |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX051325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/14/2025 9:56:56 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/14/2025 12:35:50 PM | | |
| SubDirectory | VX051325 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133901 |
| Initial Calibration Stds | |
| CCC | VP133902,VP133903 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX046152.D | 13 May 2025 09:29 | | JC/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VX046153.D | 13 May 2025 10:00 | pH#Lot#V12668 | JC/MD | Ok,M |
| 3 | VX0513MBL01 | VX0513MBL01 | VX046154.D | 13 May 2025 10:29 | | JC/MD | Ok |
| 4 | VX0513WBL01 | VX0513WBL01 | VX046155.D | 13 May 2025 10:52 | | JC/MD | Ok |
| 5 | Q1993-08 | EB-20250508 | VX046156.D | 13 May 2025 11:16 | vial B pH<2 EB | JC/MD | Ok |
| 6 | Q1993-09 | TB | VX046157.D | 13 May 2025 11:39 | vial B pH<2 TB | JC/MD | Ok |
| 7 | VX0513WBS01 | VX0513WBS01 | VX046158.D | 13 May 2025 12:02 | | JC/MD | Ok,M |
| 8 | VX0513WBSD01 | VX0513WBSD01 | VX046159.D | 13 May 2025 12:28 | | JC/MD | Ok,M |
| 9 | Q2013-02 | BP-TT192D2-GW-2025 | VX046160.D | 13 May 2025 12:51 | vial A pH<2 | JC/MD | Ok |
| 10 | Q2013-03 | BP-TT192D1-GW-2025 | VX046161.D | 13 May 2025 13:15 | vial A pH<2 | JC/MD | Ok |
| 11 | Q2013-01 | BP-TB-20250508 | VX046162.D | 13 May 2025 13:38 | vial A pH<2 | JC/MD | Ok |
| 12 | Q2001-01 | WC-A4-03-G | VX046163.D | 13 May 2025 14:01 | vial A pH#5.0 | JC/MD | Ok |
| 13 | Q2001-05 | WC-A1-05-G | VX046164.D | 13 May 2025 14:25 | vial A pH#5.0 Need 10X | JC/MD | Dilution |
| 14 | Q2001-09 | WC-A1-06-G | VX046165.D | 13 May 2025 14:48 | vial A pH#5.0 Need 20X | JC/MD | Dilution |
| 15 | Q2001-13 | WC-A1-07-G | VX046166.D | 13 May 2025 15:11 | vial A pH#5.0 Surrogate Fail;Need 40X | JC/MD | Dilution |
| 16 | IBLK | IBLK | VX046167.D | 13 May 2025 15:35 | | JC/MD | Ok |
| 17 | IBLK | IBLK | VX046168.D | 13 May 2025 15:58 | | JC/MD | Ok |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX051325

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 5/14/2025 9:56:56 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 5/14/2025 12:35:50 PM | | |
| SubDirectory | VX051325 | HP Acquire Method | | HP Processing Method | 82X050525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP133901 |
| Initial Calibration Stds | |
| CCC | VP133902,VP133903 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q2007-18 | OR-636-COMP-12 | VX046169.D | 13 May 2025 16:22 | vial A pH#5.0 | JC/MD | Ok |
| 19 | Q2007-24 | OR-636-COMP-13 | VX046170.D | 13 May 2025 16:45 | vial A pH#5.0 | JC/MD | Ok |
| 20 | Q2007-30 | OR-636-COMP-14 | VX046171.D | 13 May 2025 17:08 | vial A pH#5.0 | JC/MD | Ok |
| 21 | Q2007-36 | OR-636-COMP-15 | VX046172.D | 13 May 2025 17:32 | vial A pH#5.0 | JC/MD | Ok |
| 22 | Q2017-04 | MH-I | VX046173.D | 13 May 2025 17:55 | vial A pH#5.0 | JC/MD | Ok |
| 23 | Q2017-08 | MH-J | VX046174.D | 13 May 2025 18:18 | vial A pH#5.0 | JC/MD | Ok |
| 24 | Q2007-06 | OR-636-COMP-10 | VX046175.D | 13 May 2025 18:42 | vial A pH#5.0 | JC/MD | Ok |
| 25 | Q2007-12 | OR-636-COMP-11 | VX046176.D | 13 May 2025 19:05 | vial A pH#5.0 | JC/MD | Ok |
| 26 | Q2018-04 | MW2 | VX046177.D | 13 May 2025 19:28 | vial A pH<2 Need 40X | JC/MD | Dilution |
| 27 | Q2018-05 | MW3 | VX046178.D | 13 May 2025 19:52 | vial A pH<2 | JC/MD | Ok |
| 28 | VSTDCCC050 | VSTDCCC050EC | VX046179.D | 13 May 2025 20:15 | | JC/MD | Ok,M |

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# SHIPPING DOCUMENTS

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284 Sheffield Street, Mountainside, NJ 07092
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www.chemtech.net

ALLIANCE PROJECT NO. Q1993
QUOTE NO.
COC Number 2047019

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Parsons
ADDRESS: 301 Plainfield Rd.
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Stephen Liberatore
PHONE: 315-418-8767 FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: Con Ed East River MASF
PROJECT NO.: 454453 LOCATION: Manhattan
PROJECT MANAGER: Stephen Liberatore
e-mail: stephen.liberatore@parsons.com
PHONE: 315-418-8767 FAX:

## CLIENT BILLING INFORMATION

BILL TO: Parsons PO#:
ADDRESS: 301 Plainfield Rd.
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: S. Liberatore PHONE: 315-418-8767

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B ❑ Other _____
❑ EDD FORMAT _____

## ANALYSIS

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| VOC+TIC | MTBE | SVOC+TIC | | | | | | |

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A | A | E | | | | | | | ← Specify Preservatives |
| 1. | MW-3-20250508 | GW | | X | 5-8-25 | 1247 | 3 | X | X | X | | | | | | | |
| 2. | MW-3-20250508-MS | GW | | X | 5-8-25 | 1247 | 3 | X | X | X | | | | | | | |
| 3. | MW-3-20250508-MSD | GW | | X | 5-8-25 | 1247 | 3 | X | X | X | | | | | | | |
| 4. | MW-3-20250508-A | GW | | X | 5-8-25 | 1247 | 3 | X | X | X | | | | | | | |
| 5. | MW-2-20250508 | GW | | X | 5-8-25 | 1418 | 3 | X | X | X | | | | | | | |
| 6. | MW-1-20250508 | GW | | X | 5-8-25 | 1537 | 3 | X | X | X | | | | | | | |
| 7. | MW-4-20250508 | GW | | X | 5-8-25 | 1646 | 3 | X | X | X | | | | | | | |
| 8. | EB-20250508 | W | | X | 5-8-25 | 2000 | 3 | X | X | X | | | | | | | |
| 9. | TB | W | | X | | | 2 | X | X | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Bill Chaby | 5-8-25 / 2045 | 1. 5-9-25 0700 |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 2.2°C
Comments: Adjust FACTOR +1 IVL GW +1

Page 1 of 1

CLIENT: X Hand Delivered ❑ Other

Shipment Complete X YES ❑ NO



WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

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

QA Control Code: A2070148

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1993 PARS02
**Client Name :** PARSONS Engineering of N
**Client Contact :** Stephen Liberatore
**Invoice Name :** PARSONS Engineering of N
**Invoice Contact :** Stephen Liberatore

**Order Date :** 5/9/2025 10:29:22 AM
**Project Name :** Con Ed Non-MGP - East Ri
**Receive DateTime :** 5/9/2025 7:00:00 AM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Results Only
**EDD Type :** Excel NY
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q1993-01 | MW-3-20250508 | Water | 05/08/2025 | 12:47 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1993-02 | Q1993-01MS | Water | 05/08/2025 | 12:47 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1993-03 | Q1993-01MSD | Water | 05/08/2025 | 12:47 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1993-04 | MW-3-20250508-A | Water | 05/08/2025 | 12:47 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1993-05 | MW-2-20250508 | Water | 05/08/2025 | 14:18 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1993-06 | MW-1-20250508 | Water | 05/08/2025 | 15:37 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1993-07 | MW-4-20250508 | Water | 05/08/2025 | 16:46 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1993-08 | EB-20250508 | Water | 05/08/2025 | 20:00 | | | | | |

Alliance TECHNICAL GROUP
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| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | | |
| Q1993-09 | TB | Water | 05/08/2025 | 00:00 | | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | 10 Bus. Days | | |

Stored in VOA ref # 04

**Relinquished By :** [signature]
**Date / Time :** 5/9/25 1050

**Received By :** [signature]
**Date / Time :** 5/9/25 10:30

**Storage Area :** **VOA Refridgerator Room**