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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2842

**Client:** JACOBS Engineering Group, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **RMW-03B-90.4-081225** | | | | | | | |
| Q2842-01 | RMW-03B-90.4-08 | Water | cis-1,2-Dichloroethene | 2800 | | 7.60 | 40.0 | ug/L |
| Q2842-01 | RMW-03B-90.4-08 | Water | Trichloroethene | 810 | | 3.70 | 40.0 | ug/L |
| | | | **Total Voc :** | 3610 | | | | |
| | | | **Total Concentration:** | 3610 | | | | |
| **Client ID:** | **RMW-02B-66.3-081225** | | | | | | | |
| Q2842-02 | RMW-02B-66.3-08 | Water | Vinyl Chloride | 240 | | 10.4 | 40.0 | ug/L |
| Q2842-02 | RMW-02B-66.3-08 | Water | 1,1-Dichloroethene | 130 | | 9.20 | 40.0 | ug/L |
| Q2842-02 | RMW-02B-66.3-08 | Water | cis-1,2-Dichloroethene | 1600 | | 7.60 | 40.0 | ug/L |
| Q2842-02 | RMW-02B-66.3-08 | Water | Trichloroethene | 1500 | | 3.70 | 40.0 | ug/L |
| Q2842-02 | RMW-02B-66.3-08 | Water | Tetrachloroethene | 24.7 | J | 9.20 | 40.0 | ug/L |
| | | | **Total Voc :** | 3490 | | | | |
| | | | **Total Concentration:** | 3490 | | | | |
| **Client ID:** | **MW-17B-55.5-081225** | | | | | | | |
| Q2842-03 | MW-17B-55.5-0812 | Water | cis-1,2-Dichloroethene | 3000 | | 19.0 | 100 | ug/L |
| Q2842-03 | MW-17B-55.5-0812 | Water | Trichloroethene | 3600 | | 9.30 | 100 | ug/L |
| Q2842-03 | MW-17B-55.5-0812 | Water | Tetrachloroethene | 56.3 | J | 23.0 | 100 | ug/L |
| | | | **Total Voc :** | 6660 | | | | |
| | | | **Total Concentration:** | 6660 | | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/12/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 08/12/25 |
| Client Sample ID: | RMW-03B-90.4-081225 | SDG No.: | Q2842 |
| Lab Sample ID: | Q2842-01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VN087566.D | 40 | 08/14/25 15:20 | VN081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 10.4 | U | 10.4 | 40.0 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 9.20 | U | 9.20 | 40.0 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 9.20 | U | 9.20 | 40.0 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 2800 | | 7.60 | 40.0 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 8.00 | U | 8.00 | 40.0 | ug/L |
| 71-43-2 | Benzene | 6.00 | U | 6.00 | 40.0 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 8.80 | U | 8.80 | 40.0 | ug/L |
| 79-01-6 | Trichloroethene | 810 | | 3.70 | 40.0 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 8.40 | U | 8.40 | 40.0 | ug/L |
| 127-18-4 | Tetrachloroethene | 9.20 | U | 9.20 | 40.0 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.7 | | 70 (74) - 130 (125) | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.5 | | 70 (75) - 130 (124) | 91% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.7 | | 70 (86) - 130 (113) | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.9 | | 70 (77) - 130 (121) | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 226000 | 8.206 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 494000 | 9.088 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 459000 | 11.847 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 214000 | 13.77 | | | |

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

Raw Data: **VN087567.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/12/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 08/12/25 |
| Client Sample ID: | RMW-02B-66.3-081225 | SDG No.: | Q2842 |
| Lab Sample ID: | Q2842-02 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VN087567.D | 40 | 08/14/25 15:42 | VN081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 240 | | 10.4 | 40.0 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 130 | | 9.20 | 40.0 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 9.20 | U | 9.20 | 40.0 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 1600 | | 7.60 | 40.0 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 8.00 | U | 8.00 | 40.0 | ug/L |
| 71-43-2 | Benzene | 6.00 | U | 6.00 | 40.0 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 8.80 | U | 8.80 | 40.0 | ug/L |
| 79-01-6 | Trichloroethene | 1500 | | 3.70 | 40.0 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 8.40 | U | 8.40 | 40.0 | ug/L |
| 127-18-4 | Tetrachloroethene | 24.7 | J | 9.20 | 40.0 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 57.0 | | 70 (74) - 130 (125) | 114% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.1 | | 70 (75) - 130 (124) | 90% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.0 | | 70 (86) - 130 (113) | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.0 | | 70 (77) - 130 (121) | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 219000 | 8.212 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 487000 | 9.088 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 439000 | 11.847 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 211000 | 13.77 | | | |

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

Raw Data: **VN087568.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/12/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 08/12/25 |
| Client Sample ID: | MW-17B-55.5-081225 | SDG No.: | Q2842 |
| Lab Sample ID: | Q2842-03 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VN087568.D | 100 | 08/14/25 16:04 | VN081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 26.0 | U | 26.0 | 100 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 23.0 | U | 23.0 | 100 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 23.0 | U | 23.0 | 100 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 3000 | | 19.0 | 100 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 20.0 | U | 20.0 | 100 | ug/L |
| 71-43-2 | Benzene | 15.0 | U | 15.0 | 100 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 22.0 | U | 22.0 | 100 | ug/L |
| 79-01-6 | Trichloroethene | 3600 | | 9.30 | 100 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 21.0 | U | 21.0 | 100 | ug/L |
| 127-18-4 | Tetrachloroethene | 56.3 | J | 23.0 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.6 | | 70 (74) - 130 (125) | 113% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.1 | | 70 (75) - 130 (124) | 90% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.5 | | 70 (86) - 130 (113) | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.5 | | 70 (77) - 130 (121) | 91% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 220000 | 8.212 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 488000 | 9.088 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 455000 | 11.847 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 209000 | 13.77 | | | |

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

Raw Data: **VN087565.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/12/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 08/12/25 |
| Client Sample ID: | TB01-081225 | SDG No.: | Q2842 |
| Lab Sample ID: | Q2842-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VN087565.D | 1 | 08/14/25 14:58 | VN081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 75-35-4 | 1,1-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 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 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 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.1 | | 70 (74) - 130 (125) | 110% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 44.9 | | 70 (75) - 130 (124) | 90% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.6 | | 70 (86) - 130 (113) | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.2 | | 70 (77) - 130 (121) | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 224000 | 8.212 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 499000 | 9.088 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 459000 | 11.847 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 215000 | 13.77 | | | |

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

# QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Surrogate Summary

**SDG No.:** Q2842

**Client:** JACOBS Engineering Group, Inc.

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q2842-01 | RMW-03B-90.4-081225 | 1,2-Dichloroethane-d4 | 50 | 53.7 | 107 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 45.5 | 91 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 45.7 | 91 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 43.9 | 88 | | 70 (77) | 130 (121) |
| Q2842-02 | RMW-02B-66.3-081225 | 1,2-Dichloroethane-d4 | 50 | 57.0 | 114 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 45.1 | 90 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 46.0 | 92 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 45.0 | 90 | | 70 (77) | 130 (121) |
| Q2842-03 | MW-17B-55.5-081225 | 1,2-Dichloroethane-d4 | 50 | 56.6 | 113 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 45.1 | 90 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 46.5 | 93 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 45.5 | 91 | | 70 (77) | 130 (121) |
| Q2842-04MS | MW-17B-55.5-081225MS | 1,2-Dichloroethane-d4 | 50 | 53.8 | 108 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 47.9 | 96 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 47.9 | 96 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 51.7 | 103 | | 70 (77) | 130 (121) |
| Q2842-05MSD | MW-17B-55.5-081225MSD | 1,2-Dichloroethane-d4 | 50 | 54.6 | 109 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 46.7 | 93 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 48.2 | 96 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 50.5 | 101 | | 70 (77) | 130 (121) |
| Q2842-08 | TB01-081225 | 1,2-Dichloroethane-d4 | 50 | 55.1 | 110 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 44.9 | 90 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 45.6 | 91 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 44.2 | 88 | | 70 (77) | 130 (121) |
| VN0814WBL01 | VN0814WBL01 | 1,2-Dichloroethane-d4 | 50 | 52.9 | 106 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 44.2 | 88 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 44.2 | 88 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 43.7 | 87 | | 70 (77) | 130 (121) |
| VN0814WBS01 | VN0814WBS01 | 1,2-Dichloroethane-d4 | 50 | 57.6 | 115 | | 70 (74) | 130 (125) |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | | 70 (75) | 130 (124) |
| | | Toluene-d8 | 50 | 50.7 | 101 | | 70 (86) | 130 (113) |
| | | 4-Bromofluorobenzene | 50 | 52.9 | 106 | | 70 (77) | 130 (121) |

( ) = LABORATORY INHOUSE LIMIT

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2842 **Analytical Method:** SW8260-Low

**Client:** JACOBS Engineering Group, In **Datafile :** VN087569.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID : Q2842-04MS** | | **Client Sample ID : MW-17B-55.5-081225MS** | | | | | | | | | |
| Vinyl chloride | 5000 | 0 | 5400 | ug/L | 108 | | | | 70 (69) | 130 (125) | |
| 1,1-Dichloroethene | 5000 | 0 | 5200 | ug/L | 104 | | | | 70 (53) | 130 (162) | |
| 1,1-Dichloroethane | 5000 | 0 | 5300 | ug/L | 106 | | | | 70 (78) | 130 (122) | |
| cis-1,2-Dichloroethene | 5000 | 3000 | 8100 | ug/L | 102 | | | | 70 (82) | 130 (124) | |
| 1,1,1-Trichloroethane | 5000 | 0 | 5400 | ug/L | 108 | | | | 70 (83) | 130 (117) | |
| Benzene | 5000 | 0 | 5100 | ug/L | 102 | | | | 70 (81) | 130 (128) | |
| 1,2-Dichloroethane | 5000 | 0 | 5500 | ug/L | 110 | | | | 70 (76) | 130 (120) | |
| Trichloroethene | 5000 | 3600 | 10000 | ug/L | 128 | | | | 70 (28) | 130 (175) | |
| 1,1,2-Trichloroethane | 5000 | 0 | 5300 | ug/L | 106 | | | | 70 (27) | 130 (175) | |
| Tetrachloroethene | 5000 | 56.3 | 4300 | ug/L | 85 | | | | 70 (48) | 130 (153) | |

( ) = LABORATORY INHOUSE LIMIT

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2842 **Analytical Method:** SW8260-Low

**Client:** JACOBS Engineering Group, In **Datafile :** VN087570.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID : Q2842-05MSD** | | **Client Sample ID : MW-17B-55.5-081225MSD** | | | | | | | | | |
| Vinyl chloride | 5000 | 0 | 5400 | ug/L | 108 | | 0 | | 70 (69) | 130 (125) | 20 (20) |
| 1,1-Dichloroethene | 5000 | 0 | 5300 | ug/L | 106 | | 2 | | 70 (53) | 130 (162) | 20 (20) |
| 1,1-Dichloroethane | 5000 | 0 | 5400 | ug/L | 108 | | 2 | | 70 (78) | 130 (122) | 20 (20) |
| cis-1,2-Dichloroethene | 5000 | 3000 | 8000 | ug/L | 100 | | 2 | | 70 (82) | 130 (124) | 20 (20) |
| 1,1,1-Trichloroethane | 5000 | 0 | 5500 | ug/L | 110 | | 2 | | 70 (83) | 130 (117) | 20 (20) |
| Benzene | 5000 | 0 | 5100 | ug/L | 102 | | 0 | | 70 (81) | 130 (128) | 20 (20) |
| 1,2-Dichloroethane | 5000 | 0 | 5300 | ug/L | 106 | | 4 | | 70 (76) | 130 (120) | 20 (20) |
| Trichloroethene | 5000 | 3600 | 9500 | ug/L | 118 | | 8 | | 70 (28) | 130 (175) | 20 (20) |
| 1,1,2-Trichloroethane | 5000 | 0 | 5300 | ug/L | 106 | | 0 | | 70 (27) | 130 (175) | 20 (20) |
| Tetrachloroethene | 5000 | 56.3 | 4300 | ug/L | 85 | | 0 | | 70 (48) | 130 (153) | 20 (20) |

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2842 **Analytical Method:** SW8260-Low

**Client:** JACOBS Engineering Group, Inc. **Datafile :** VN087555.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN0814WBS01 | Vinyl chloride | 20 | 21.4 | ug/L | 107 | | | 70 (65) | 130 (117) | |
| | 1,1-Dichloroethene | 20 | 20.6 | ug/L | 103 | | | 70 (74) | 130 (110) | |
| | 1,1-Dichloroethane | 20 | 21.6 | ug/L | 108 | | | 70 (78) | 130 (112) | |
| | cis-1,2-Dichloroethene | 20 | 21.2 | ug/L | 106 | | | 70 (77) | 130 (110) | |
| | 1,1,1-Trichloroethane | 20 | 21.4 | ug/L | 107 | | | 70 (80) | 130 (108) | |
| | Benzene | 20 | 20.3 | ug/L | 102 | | | 70 (82) | 130 (109) | |
| | 1,2-Dichloroethane | 20 | 21.5 | ug/L | 108 | | | 70 (80) | 130 (115) | |
| | Trichloroethene | 20 | 19.2 | ug/L | 96 | | | 70 (77) | 130 (113) | |
| | 1,1,2-Trichloroethane | 20 | 20.7 | ug/L | 104 | | | 70 (83) | 130 (112) | |
| | Tetrachloroethene | 20 | 18.1 | ug/L | 91 | | | 70 (67) | 130 (123) | |

( ) = LABORATORY INHOUSE LIMIT

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VN0814WBL01

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q2842

Lab File ID: VN087554.D | Lab Sample ID: VN0814WBL01

Date Analyzed: 08/14/2025 | Time Analyzed: 10:32

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VN0814WBS01 | VN0814WBS01 | VN087555.D | 08/14/2025 |
| TB01-081225 | Q2842-08 | VN087565.D | 08/14/2025 |
| RMW-03B-90.4-081225 | Q2842-01 | VN087566.D | 08/14/2025 |
| RMW-02B-66.3-081225 | Q2842-02 | VN087567.D | 08/14/2025 |
| MW-17B-55.5-081225 | Q2842-03 | VN087568.D | 08/14/2025 |
| MW-17B-55.5-081225MS | Q2842-04MS | VN087569.D | 08/14/2025 |
| MW-17B-55.5-081225MSD | Q2842-05MSD | VN087570.D | 08/14/2025 |

COMMENTS:

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

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q2842

Lab File ID: VN087327.D | BFB Injection Date: 07/16/2025

Instrument ID: MSVOA_N | BFB Injection Time: 16:10

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.8 |
| 75 | 30.0 - 60.0% of mass 95 | 50.8 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.1 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.8 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 70.9 |
| 175 | 5.0 - 9.0% of mass 174 | 3.6 ( 5.1 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 68.7 ( 96.9 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 ( 7 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC001 | VSTDICC001 | VN087328.D | 07/16/2025 | 17:05 |
| VSTDICC005 | VSTDICC005 | VN087329.D | 07/16/2025 | 17:27 |
| VSTDICC020 | VSTDICC020 | VN087330.D | 07/16/2025 | 17:49 |
| VSTDICCC050 | VSTDICCC050 | VN087331.D | 07/16/2025 | 18:11 |
| VSTDICC100 | VSTDICC100 | VN087332.D | 07/16/2025 | 18:32 |
| VSTDICC150 | VSTDICC150 | VN087333.D | 07/16/2025 | 18:54 |

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

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q2842

Lab File ID: VN087551.D | BFB Injection Date: 08/14/2025

Instrument ID: MSVOA_N | BFB Injection Time: 09:01

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 23.8 |
| 75 | 30.0 - 60.0% of mass 95 | 57.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 5.6 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1.3 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 65.2 |
| 175 | 5.0 - 9.0% of mass 174 | 4.4 ( 6.8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 64.4 ( 98.8 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4 ( 6.2 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN087552.D | 08/14/2025 | 09:34 |
| VN0814WBL01 | VN0814WBL01 | VN087554.D | 08/14/2025 | 10:32 |
| VN0814WBS01 | VN0814WBS01 | VN087555.D | 08/14/2025 | 11:07 |
| TB01-081225 | Q2842-08 | VN087565.D | 08/14/2025 | 14:58 |
| RMW-03B-90.4-081225 | Q2842-01 | VN087566.D | 08/14/2025 | 15:20 |
| RMW-02B-66.3-081225 | Q2842-02 | VN087567.D | 08/14/2025 | 15:42 |
| MW-17B-55.5-081225 | Q2842-03 | VN087568.D | 08/14/2025 | 16:04 |
| MW-17B-55.5-081225MS | Q2842-04MS | VN087569.D | 08/14/2025 | 16:27 |
| MW-17B-55.5-081225MSD | Q2842-05MSD | VN087570.D | 08/14/2025 | 16:49 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q2842

Lab File ID: VN087552.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_N Time Analyzed: 09:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 271352 | 8.21 | 543098 | 9.08 | 500619 | 11.85 |
| UPPER LIMIT | 542704 | 8.712 | 1086200 | 9.582 | 1001240 | 12.347 |
| LOWER LIMIT | 135676 | 7.712 | 271549 | 8.582 | 250310 | 11.347 |
| EPA SAMPLE NO. | | | | | | |
| RMW-03B-90.4-081225 | 225616 | 8.21 | 494400 | 9.09 | 459245 | 11.85 |
| RMW-02B-66.3-081225 | 218605 | 8.21 | 486591 | 9.09 | 438933 | 11.85 |
| MW-17B-55.5-081225 | 219937 | 8.21 | 487780 | 9.09 | 455235 | 11.85 |
| MW-17B-55.5-081225MS | 238067 | 8.21 | 461160 | 9.08 | 435202 | 11.85 |
| MW-17B-55.5-081225MSD | 251785 | 8.21 | 498703 | 9.08 | 460182 | 11.85 |
| TB01-081225 | 224412 | 8.21 | 498664 | 9.09 | 458661 | 11.85 |
| VN0814WBL01 | 284398 | 8.21 | 560321 | 9.08 | 503771 | 11.85 |
| VN0814WBS01 | 250453 | 8.21 | 485218 | 9.08 | 446518 | 11.85 |

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: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q2842

Lab File ID: VN087552.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_N Time Analyzed: 09:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 255173 | 13.77 | | | | |
| UPPER LIMIT | 510346 | 14.27 | | | | |
| LOWER LIMIT | 127587 | 13.27 | | | | |
| EPA SAMPLE NO. | | | | | | |
| RMW-03B-90.4-081225 | 213548 | 13.77 | | | | |
| RMW-02B-66.3-081225 | 211146 | 13.77 | | | | |
| MW-17B-55.5-081225 | 209426 | 13.77 | | | | |
| MW-17B-55.5-081225MS | 231778 | 13.77 | | | | |
| MW-17B-55.5-081225MSD | 240017 | 13.77 | | | | |
| TB01-081225 | 214662 | 13.77 | | | | |
| VN0814WBL01 | 234765 | 13.77 | | | | |
| VN0814WBS01 | 221983 | 13.77 | | | | |

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.

# QC SAMPLE DATA

Raw Data: **VN087554.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VN0814WBL01 | SDG No.: | Q2842 |
| Lab Sample ID: | VN0814WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VN087554.D | 1 | 08/14/25 10:32 | VN081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 75-35-4 | 1,1-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 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 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 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.9 | | 70 (74) - 130 (125) | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 44.2 | | 70 (75) - 130 (124) | 88% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 44.2 | | 70 (86) - 130 (113) | 88% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.7 | | 70 (77) - 130 (121) | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 284000 | 8.206 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 560000 | 9.083 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 504000 | 11.847 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 235000 | 13.771 | | | |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | |
| Client Sample ID: | VN0814WBS01 | SDG No.: | Q2842 |
| Lab Sample ID: | VN0814WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VN087555.D | 1 | 08/14/25 11:07 | VN081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 21.4 | | 0.26 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 20.6 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 21.6 | | 0.23 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 21.2 | | 0.19 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 21.4 | | 0.20 | 1.00 | ug/L |
| 71-43-2 | Benzene | 20.3 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 21.5 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 19.2 | | 0.090 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 20.7 | | 0.21 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.1 | | 0.23 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 57.6 | | 70 (74) - 130 (125) | 115% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.7 | | 70 (75) - 130 (124) | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.7 | | 70 (86) - 130 (113) | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.9 | | 70 (77) - 130 (121) | 106% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 250000 | 8.206 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 485000 | 9.082 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 447000 | 11.847 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 222000 | 13.77 | | | |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/12/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 08/12/25 |
| Client Sample ID: | MW-17B-55.5-081225MS | SDG No.: | Q2842 |
| Lab Sample ID: | Q2842-04MS | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VN087569.D | 100 | 08/14/25 16:27 | VN081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 5400 | | 26.0 | 100 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 5200 | | 23.0 | 100 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 5300 | | 23.0 | 100 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 8100 | | 19.0 | 100 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 5400 | | 20.0 | 100 | ug/L |
| 71-43-2 | Benzene | 5100 | | 15.0 | 100 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 5500 | | 22.0 | 100 | ug/L |
| 79-01-6 | Trichloroethene | 10000 | | 9.30 | 100 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 5300 | | 21.0 | 100 | ug/L |
| 127-18-4 | Tetrachloroethene | 4300 | | 23.0 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.8 | | 70 (74) - 130 (125) | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.9 | | 70 (75) - 130 (124) | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.9 | | 70 (86) - 130 (113) | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.7 | | 70 (77) - 130 (121) | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 238000 | 8.206 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 461000 | 9.083 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 435000 | 11.847 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 232000 | 13.77 | | | |

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/12/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 08/12/25 |
| Client Sample ID: | MW-17B-55.5-081225MSD | SDG No.: | Q2842 |
| Lab Sample ID: | Q2842-05MSD | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group3 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VN087570.D | 100 | 08/14/25 16:49 | VN081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 5400 | | 26.0 | 100 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 5300 | | 23.0 | 100 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 5400 | | 23.0 | 100 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 8000 | | 19.0 | 100 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 5500 | | 20.0 | 100 | ug/L |
| 71-43-2 | Benzene | 5100 | | 15.0 | 100 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 5300 | | 22.0 | 100 | ug/L |
| 79-01-6 | Trichloroethene | 9500 | | 9.30 | 100 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 5300 | | 21.0 | 100 | ug/L |
| 127-18-4 | Tetrachloroethene | 4300 | | 23.0 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.6 | | 70 (74) - 130 (125) | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 46.7 | | 70 (75) - 130 (124) | 93% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.2 | | 70 (86) - 130 (113) | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.5 | | 70 (77) - 130 (121) | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 252000 | 8.212 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 499000 | 9.082 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 460000 | 11.847 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 240000 | 13.77 | | | |

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG No.: Q2842

Instrument ID: MSVOA_N Calibration Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:05 18:54

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN087328.D RRF005 = VN087329.D RRF020 = VN087330.D
RRF050 = VN087331.D RRF100 = VN087332.D RRF150 = VN087333.D

| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.554 | 0.665 | 0.623 | 0.728 | 0.692 | 0.720 | 0.664 | 9.9 |
| 1,1-Dichloroethene | 0.635 | 0.641 | 0.553 | 0.545 | 0.514 | 0.537 | 0.571 | 9.4 |
| 1,1-Dichloroethane | 1.304 | 1.325 | 1.254 | 1.222 | 1.185 | 1.212 | 1.250 | 4.4 |
| cis-1,2-Dichloroethene | 0.704 | 0.737 | 0.747 | 0.767 | 0.740 | 0.751 | 0.741 | 2.8 |
| 1,1,1-Trichloroethane | 1.043 | 1.146 | 1.096 | 1.084 | 1.049 | 1.085 | 1.084 | 3.4 |
| Benzene | 1.370 | 1.430 | 1.502 | 1.553 | 1.483 | 1.499 | 1.473 | 4.3 |
| 1,2-Dichloroethane | 0.553 | 0.565 | 0.569 | 0.567 | 0.544 | 0.552 | 0.558 | 1.8 |
| Trichloroethene | 0.373 | 0.330 | 0.337 | 0.356 | 0.339 | 0.352 | 0.348 | 4.5 |
| 1,1,2-Trichloroethane | 0.367 | 0.364 | 0.365 | 0.367 | 0.357 | 0.354 | 0.362 | 1.6 |
| Tetrachloroethene | 0.329 | 0.338 | 0.317 | 0.320 | 0.310 | 0.317 | 0.322 | 3.2 |
| 1,2-Dichloroethane-d4 | | 0.939 | 0.820 | 0.802 | 0.818 | 0.863 | 0.848 | 6.6 |
| Dibromofluoromethane | | 0.347 | 0.341 | 0.332 | 0.348 | 0.356 | 0.345 | 2.6 |
| Toluene-d8 | | 1.180 | 1.176 | 1.224 | 1.255 | 1.316 | 1.230 | 4.7 |
| 4-Bromofluorobenzene | | 0.405 | 0.433 | 0.455 | 0.476 | 0.505 | 0.455 | 8.5 |

* 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.

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Fax : 908 789 8922

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG No.: Q2842

Instrument ID: MSVOA_N Calibration Date/Time: 08/14/2025 09:34

Lab File ID: VN087552.D Init. Calib. Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:05 18:54

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.664 | 0.678 | | 2.11 | 20 |
| 1,1-Dichloroethene | 0.571 | 0.562 | | -1.58 | 20 |
| 1,1-Dichloroethane | 1.250 | 1.280 | 0.1 | 2.4 | 20 |
| cis-1,2-Dichloroethene | 0.741 | 0.782 | | 5.53 | 20 |
| 1,1,1-Trichloroethane | 1.084 | 1.139 | | 5.07 | 20 |
| Benzene | 1.473 | 1.404 | | -4.68 | 20 |
| 1,2-Dichloroethane | 0.558 | 0.573 | | 2.69 | 20 |
| Trichloroethene | 0.348 | 0.305 | | -12.36 | 20 |
| 1,1,2-Trichloroethane | 0.362 | 0.350 | | -3.32 | 20 |
| Tetrachloroethene | 0.322 | 0.260 | | -19.25 | 20 |
| 1,2-Dichloroethane-d4 | 0.848 | 0.912 | | 7.55 | 20 |
| Dibromofluoromethane | 0.345 | 0.310 | | -10.15 | 20 |
| Toluene-d8 | 1.230 | 1.125 | | -8.54 | 20 |
| 4-Bromofluorobenzene | 0.455 | 0.433 | | -4.84 | 20 |

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

# SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087566.D
Acq On : 14 Aug 2025 15:20
Operator : JC\MD
Sample : Q2842-01 40X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-03B-90.4-081225

Quant Time: Aug 14 15:39:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

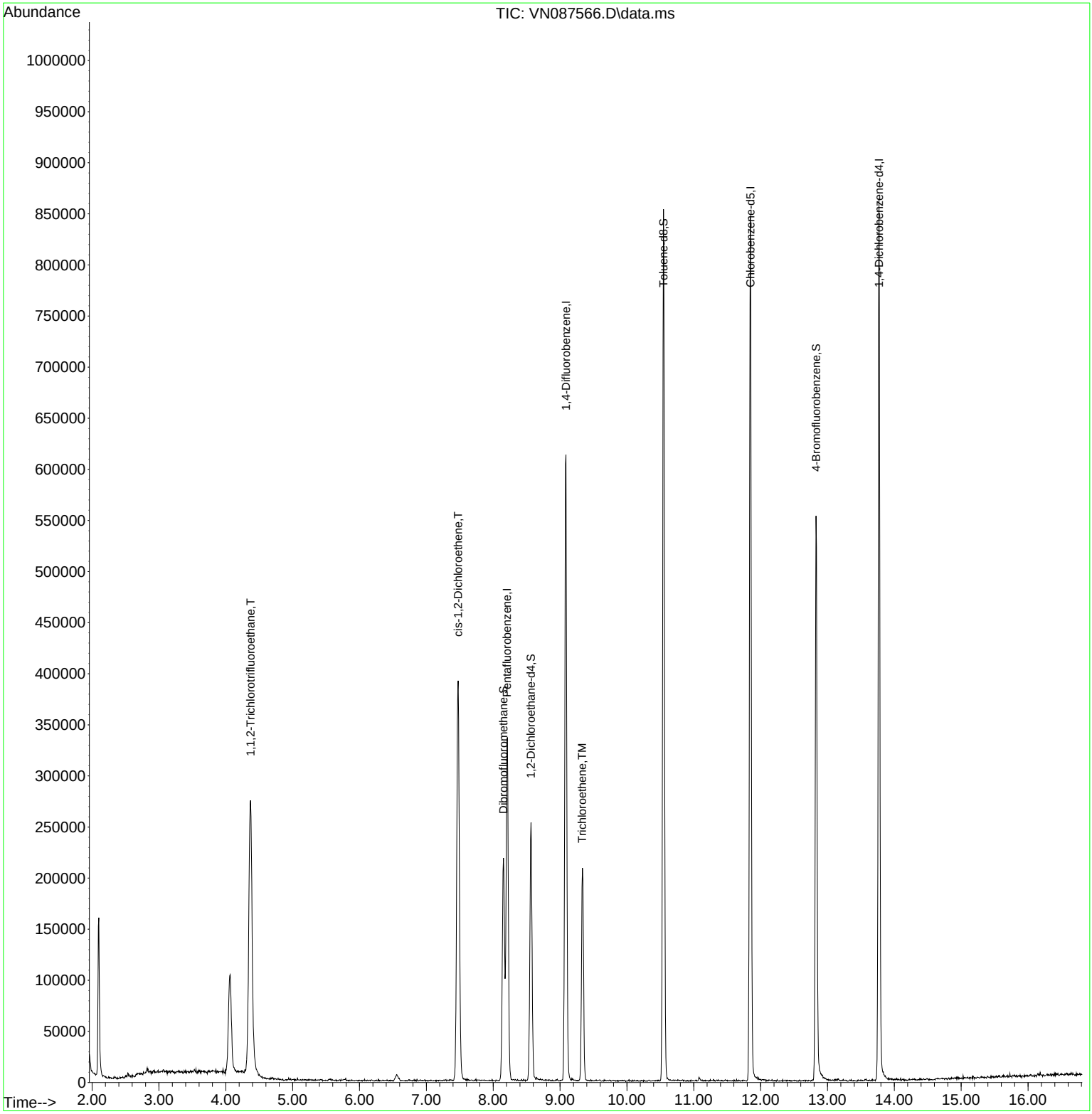
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 225616 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.088 | 114 | 494400 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 459245 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 213548 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 205410 | 53.657 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.320% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 155257 | 45.525 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 91.040% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 555821 | 45.689 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 91.380% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 197243 | 43.886 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 87.780% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 188722 | 83.020 | ug/l | 95 |
| 27) cis-1,2-Dichloroethene | 7.477 | 96 | 234562 | 70.144 | ug/l | 91 |
| 44) Trichloroethene | 9.329 | 130 | 69531 | 20.207 | ug/l | 99 |

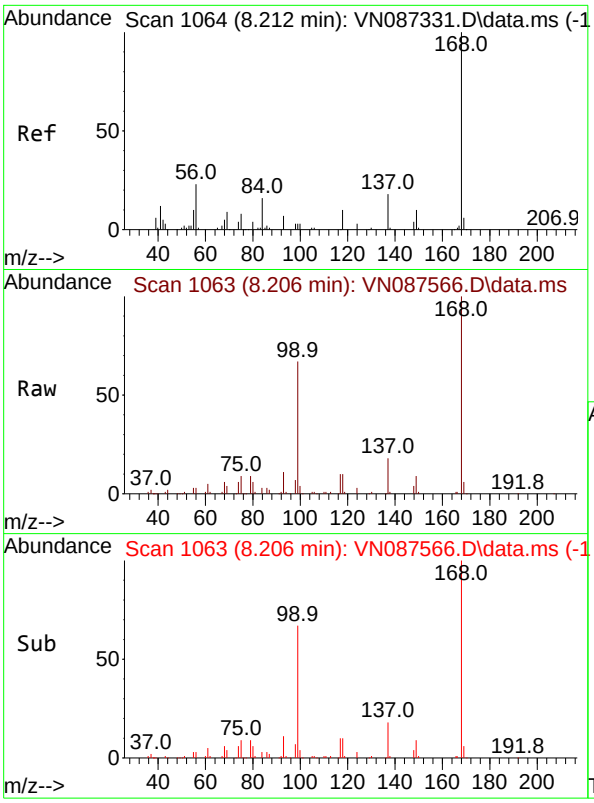
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087566.D
Acq On : 14 Aug 2025 15:20
Operator : JC\MD
Sample : Q2842-01 40X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-03B-90.4-081225

Quant Time: Aug 14 15:39:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



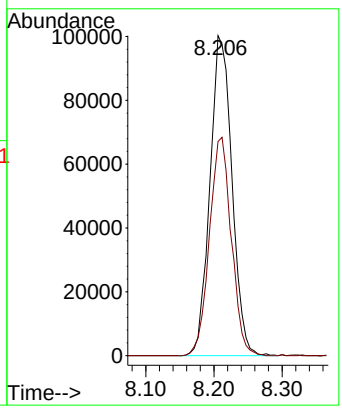


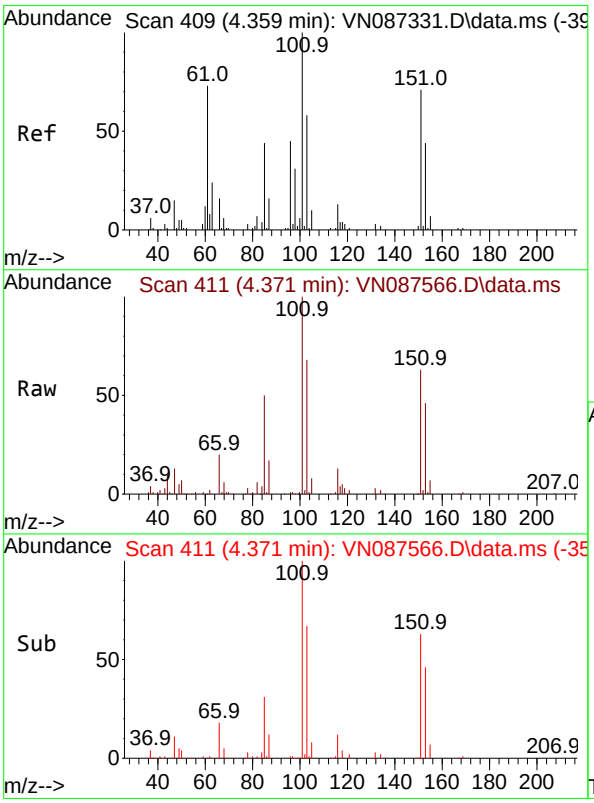

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-03B-90.4-081225

Tgt Ion:168 Resp: 225616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.9 | 47.9 | 71.9 |

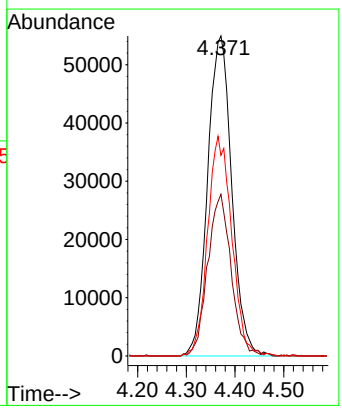


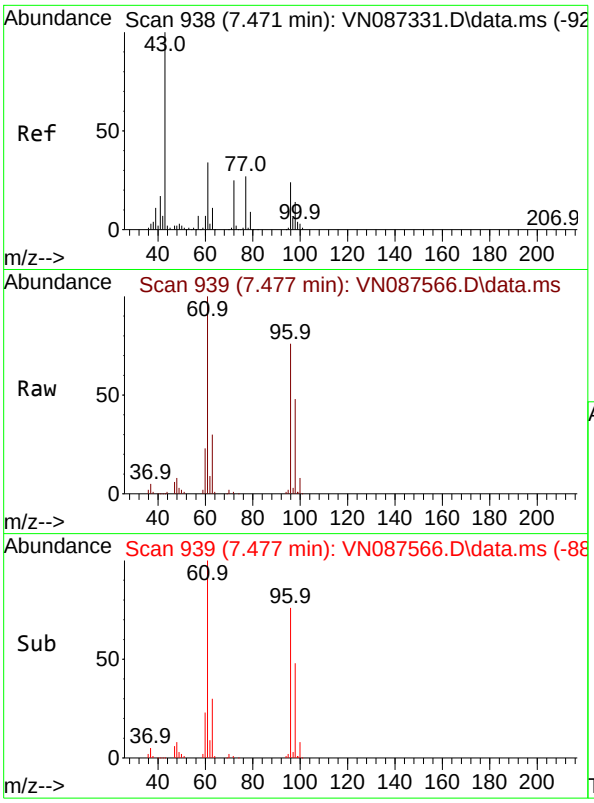




#9
1,1,2-Trichlorotrifluoroethane
Concen: 83.020 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

Tgt Ion:101 Resp: 188722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 49.1 | 37.3 | 55.9 |
| 151 | 68.6 | 58.9 | 88.3 |



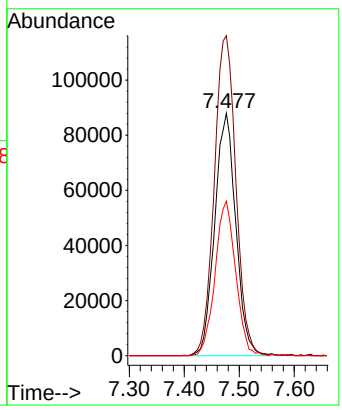


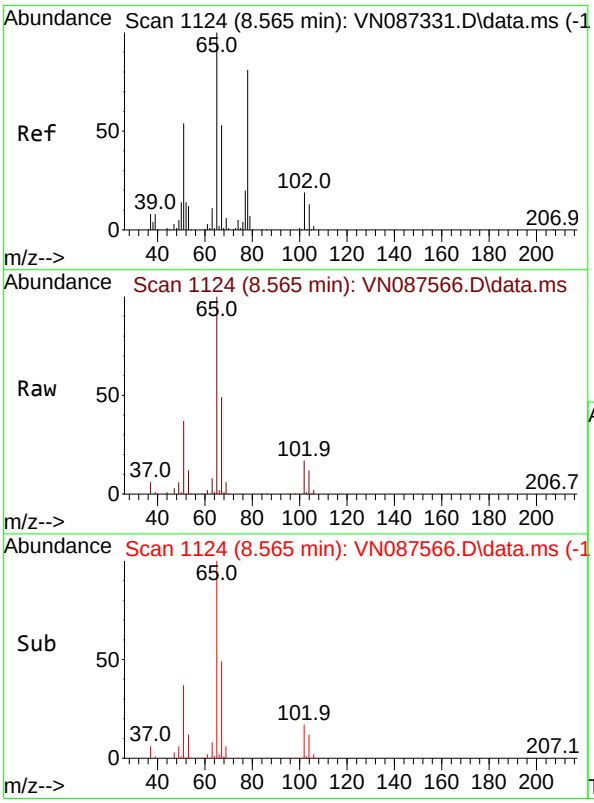

#27
cis-1,2-Dichloroethene
Concen: 70.144 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-03B-90.4-081225

Tgt Ion: 96 Resp: 234562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.3 | 0.0 | 297.8 |
| 98 | 62.2 | 0.0 | 132.4 |

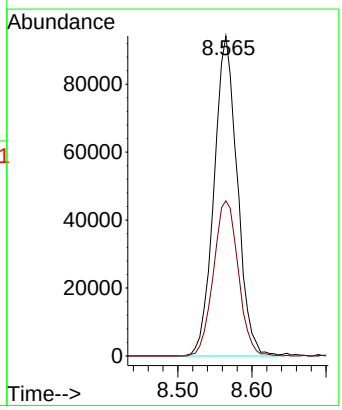


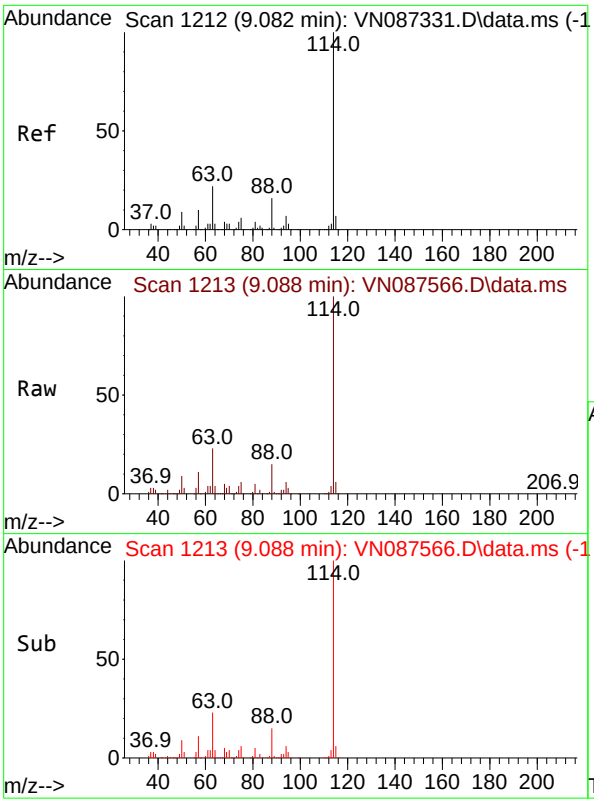




#33
1,2-Dichloroethane-d4
Concen: 53.657 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

Tgt Ion: 65 Resp: 205410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.7 | 0.0 | 104.0 |



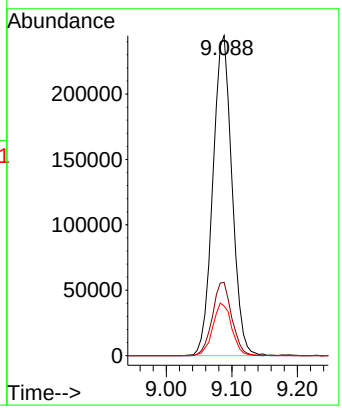


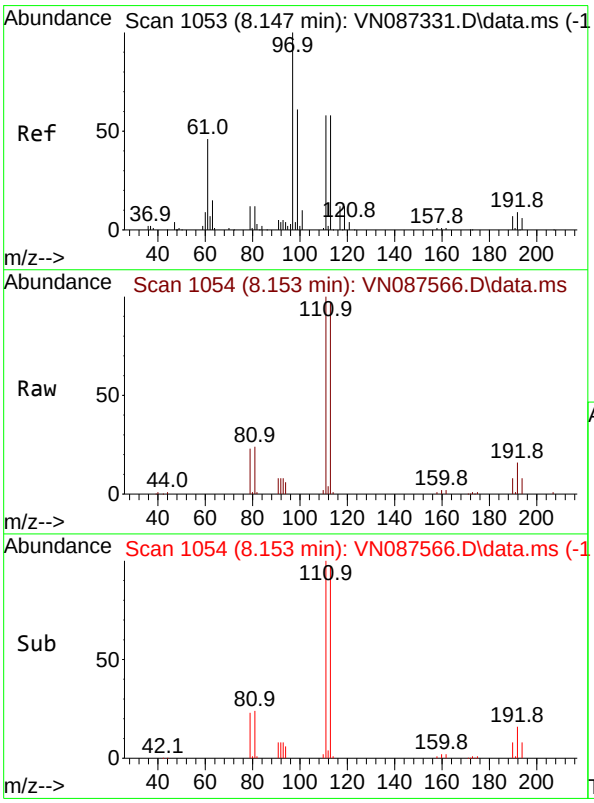

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.088 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-03B-90.4-081225

Tgt Ion:114 Resp: 494400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.9 | 0.0 | 44.6 |
| 88 | 15.5 | 0.0 | 32.8 |

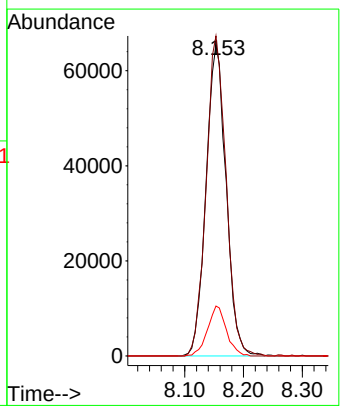


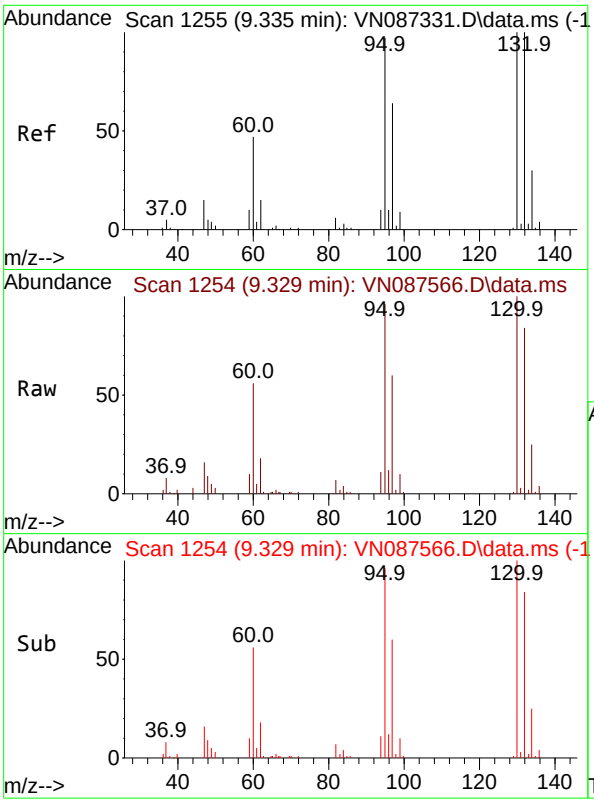




#35
Dibromofluoromethane
Concen: 45.525 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

Tgt Ion:113 Resp: 155257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 82.5 | 123.7 |
| 192 | 15.1 | 13.7 | 20.5 |



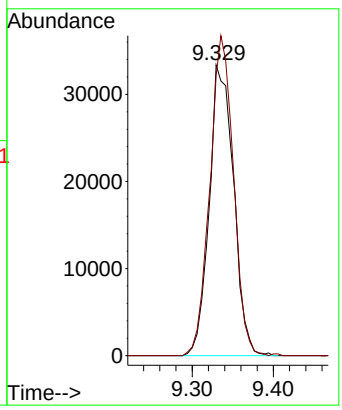


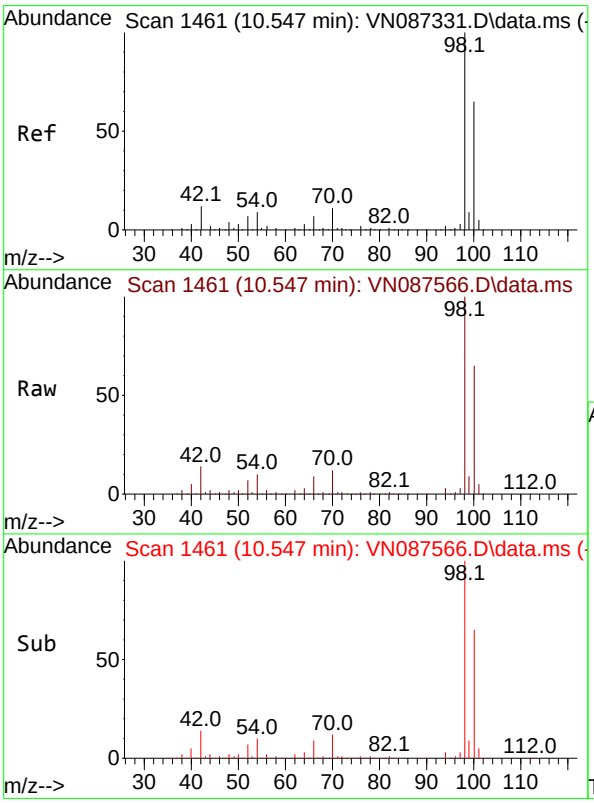

#44
Trichloroethene
Concen: 20.207 ug/l
RT: 9.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-03B-90.4-081225

Tgt Ion:130 Resp: 69531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.4 | 0.0 | 195.2 |

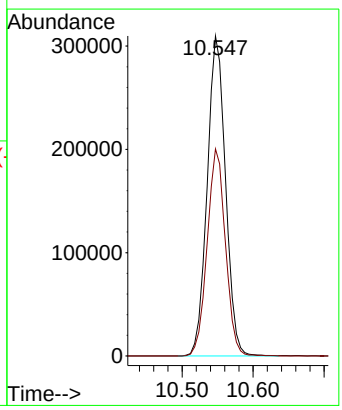


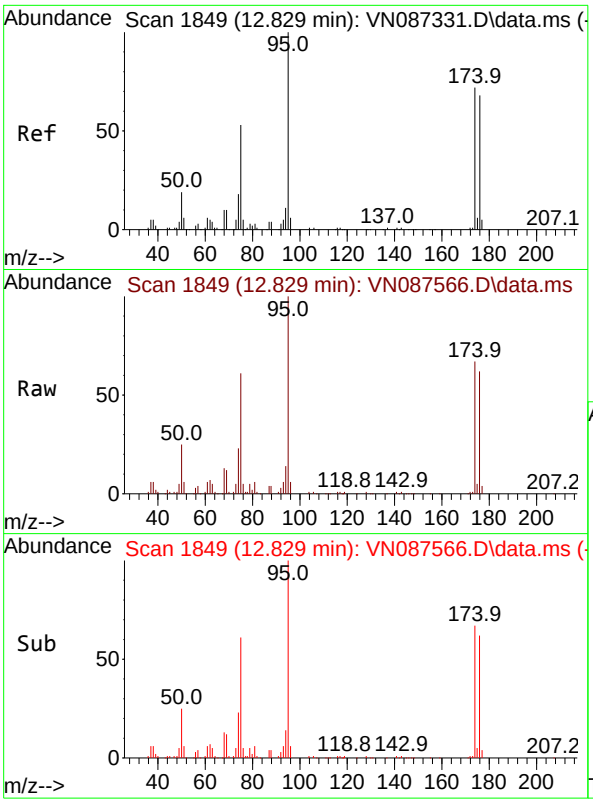




#50
Toluene-d8
Concen: 45.689 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

Tgt Ion: 98 Resp: 555821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 52.1 | 78.1 |



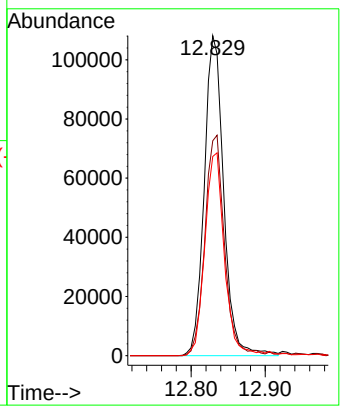


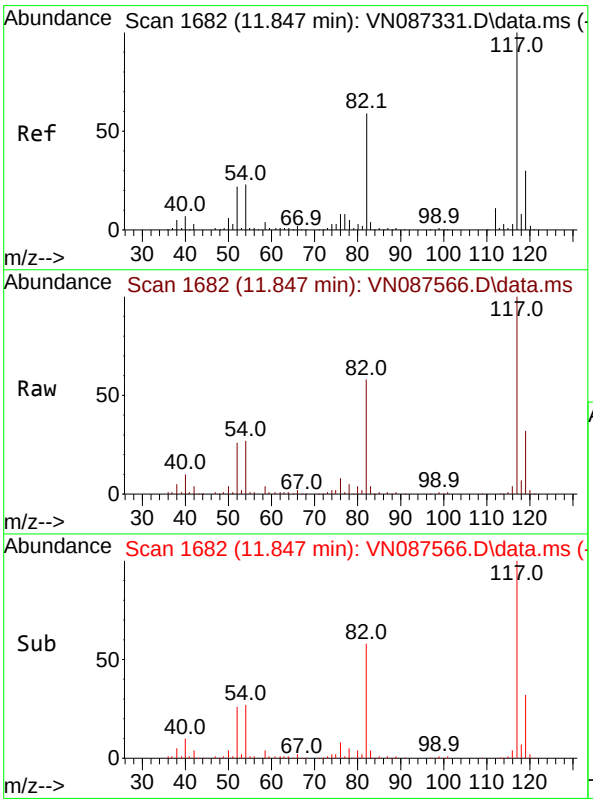

#62
4-Bromofluorobenzene
Concen: 43.886 ug/l
RT: 12.829 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-03B-90.4-081225

Tgt Ion: 95 Resp: 197243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.3 | 0.0 | 149.4 |
| 176 | 64.4 | 0.0 | 141.2 |

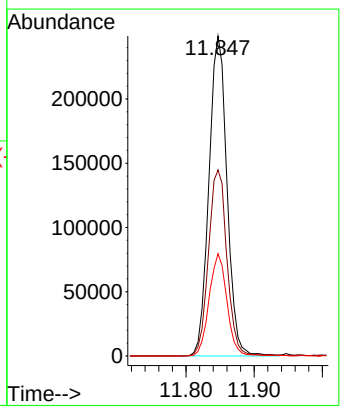


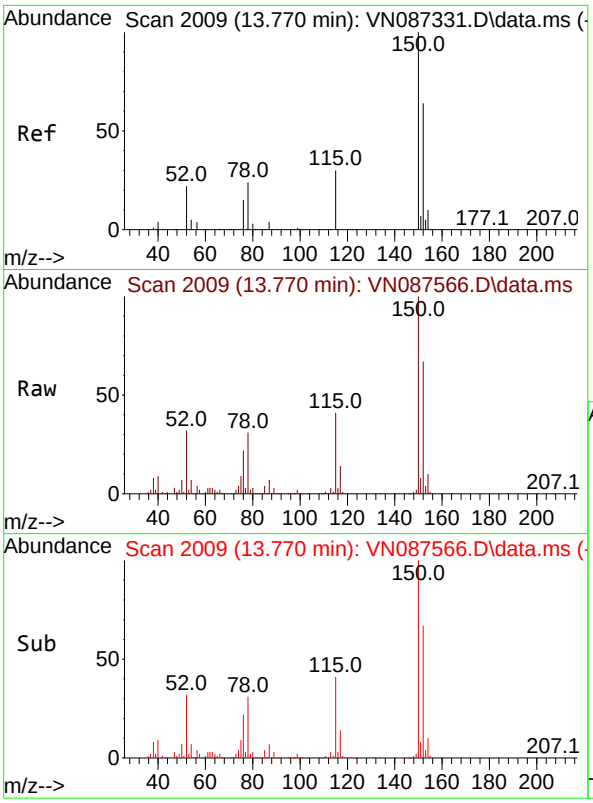




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

Tgt Ion:117 Resp: 459245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.2 | 47.4 | 71.2 |
| 119 | 32.0 | 23.8 | 35.8 |



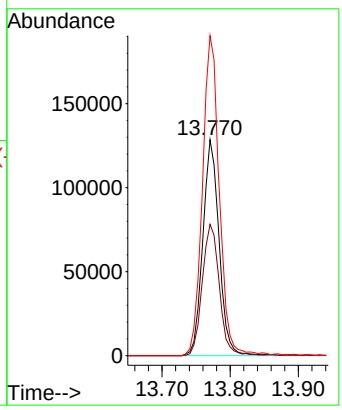



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087566.D
Acq: 14 Aug 2025 15:20

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-03B-90.4-081225

Tgt Ion:152 Resp: 213548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.6 | 31.1 | 93.5 |
| 150 | 154.0 | 0.0 | 349.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087567.D
Acq On : 14 Aug 2025 15:42
Operator : JC\MD
Sample : Q2842-02 40X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Quant Time: Aug 14 19:59:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

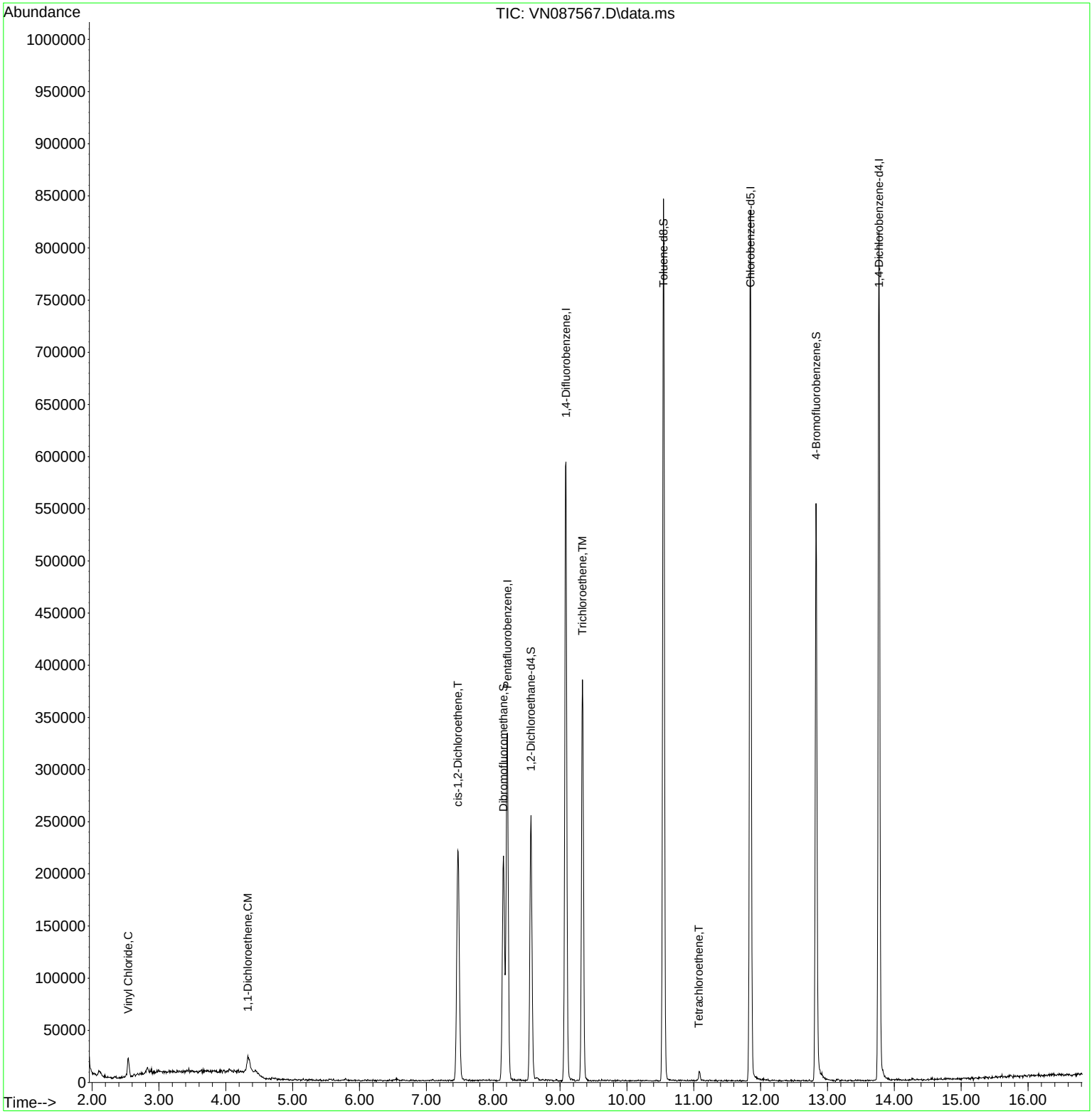
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.212 | 168 | 218605 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.088 | 114 | 486591 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 438933 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 211146 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 211465 | 57.010 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 114.020% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 151404 | 45.108 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 90.220% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 550924 | 46.014 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 92.020% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 199247 | 45.043 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 90.080% | | | |
| Target Compounds | | | | | | Qvalue |
| 4) Vinyl Chloride | 2.542 | 62 | 17532 | 6.042 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 4.330 | 96 | 8400 | 3.365 | ug/l | 94 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 128340 | 39.610 | ug/l | 94 |
| 44) Trichloroethene | 9.335 | 130 | 129163 | 38.140 | ug/l | 94 |
| 64) Tetrachloroethene | 11.076 | 164 | 1746 | 0.618 | ug/l # | 78 |

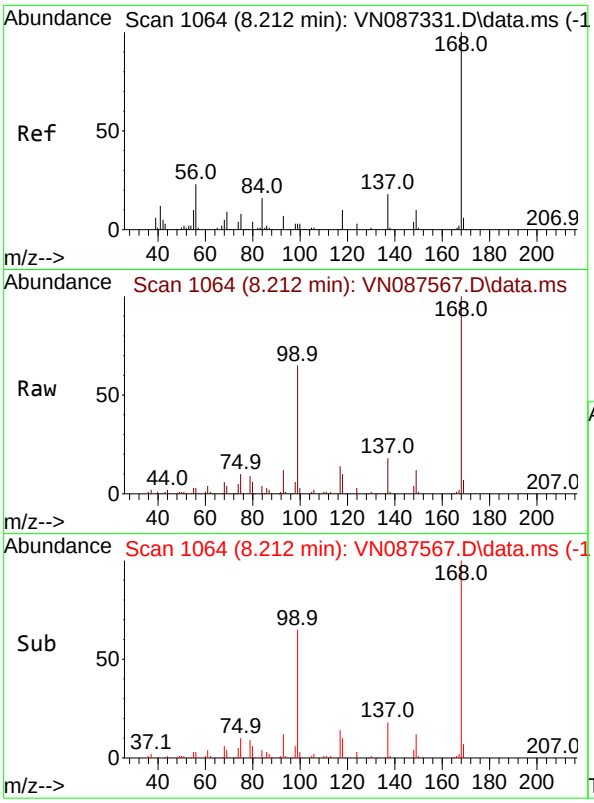
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087567.D
Acq On : 14 Aug 2025 15:42
Operator : JC\MD
Sample : Q2842-02 40X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Quant Time: Aug 14 19:59:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



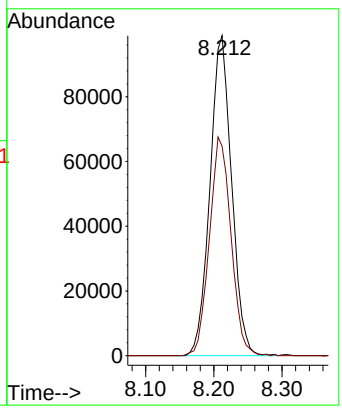


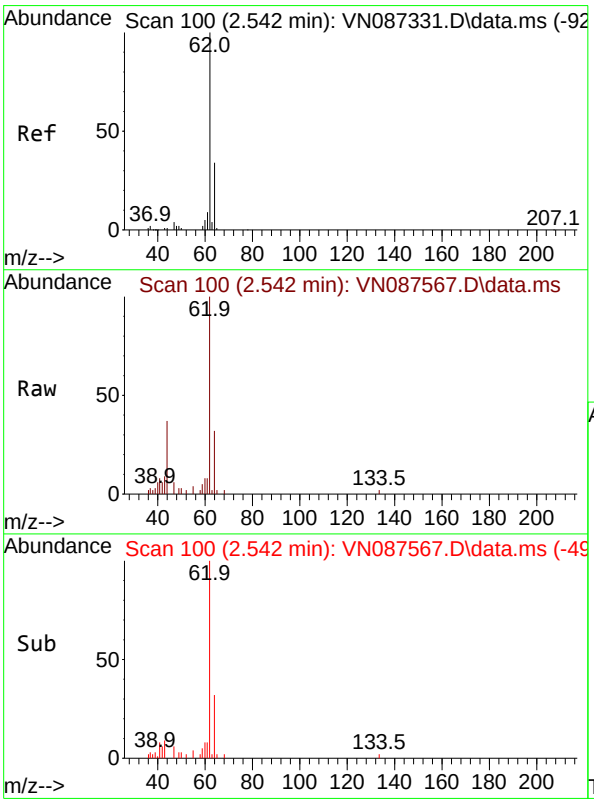

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Tgt Ion:168 Resp: 218605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.5 | 47.9 | 71.9 |

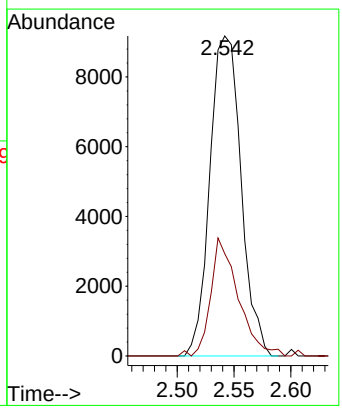


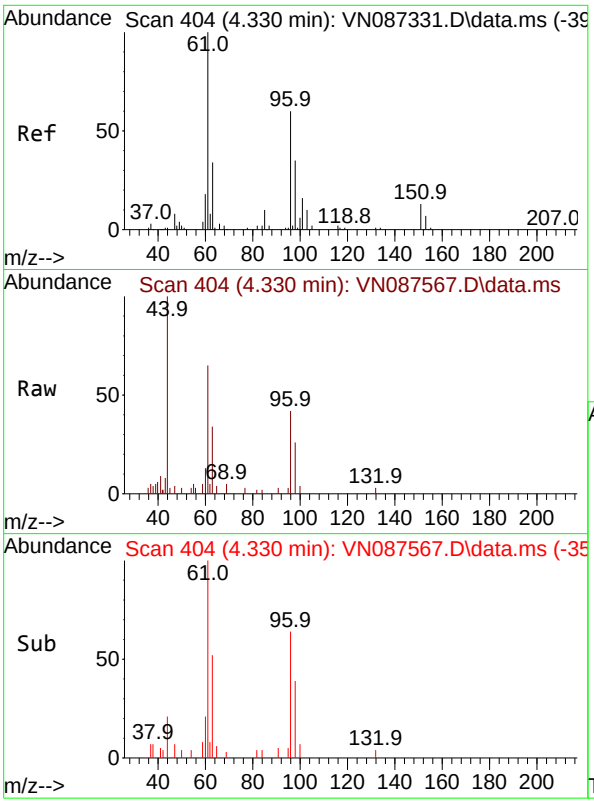




#4
Vinyl Chloride
Concen: 6.042 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion: 62 Resp: 17532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 27.0 | 40.6 |



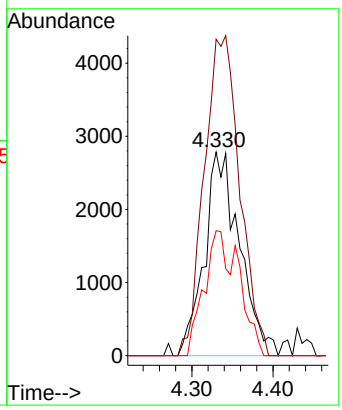


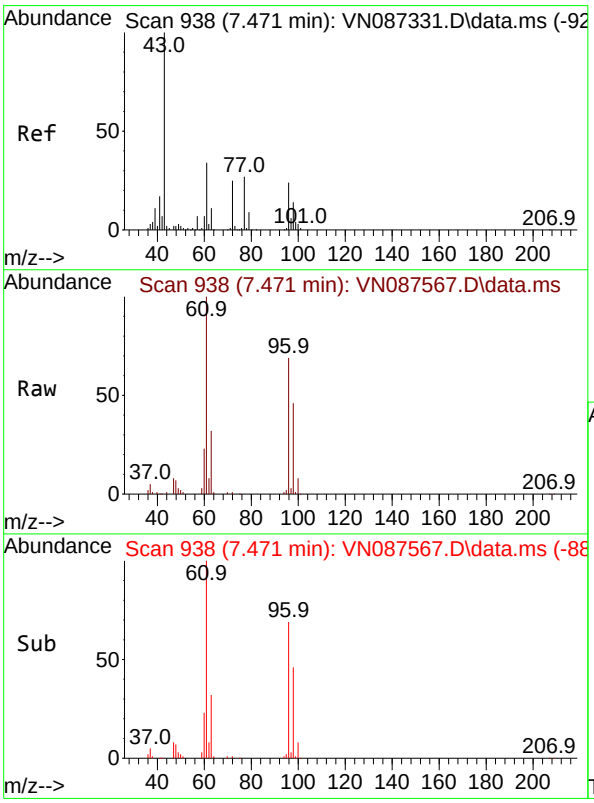

#12
1,1-Dichloroethene
Concen: 3.365 ug/l
RT: 4.330 min Scan# 4(
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Tgt Ion: 96 Resp: 8400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.5 | 132.3 | 198.5 |
| 98 | 61.4 | 46.8 | 70.2 |

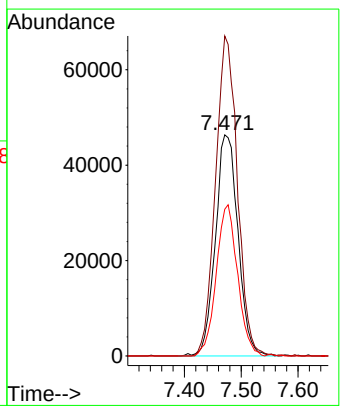


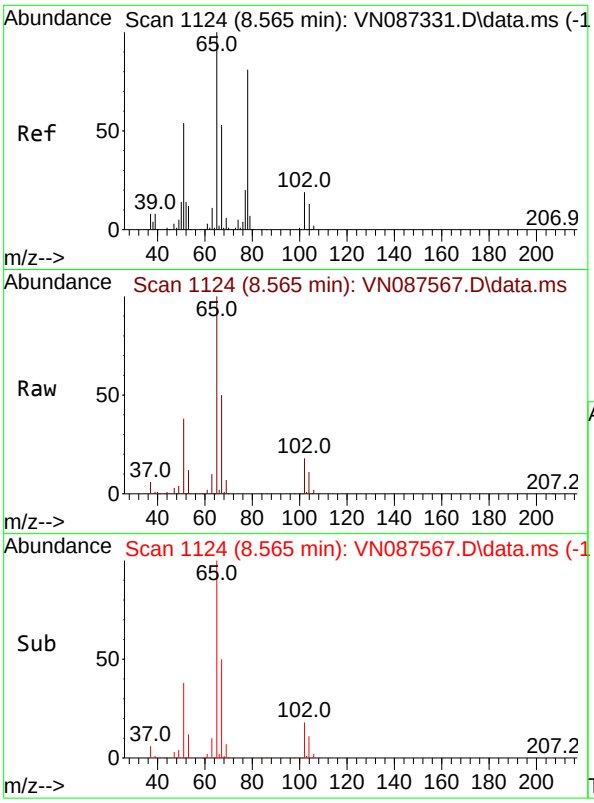




#27
cis-1,2-Dichloroethene
Concen: 39.610 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion: 96 Resp: 128340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.9 | 0.0 | 297.8 |
| 98 | 64.5 | 0.0 | 132.4 |



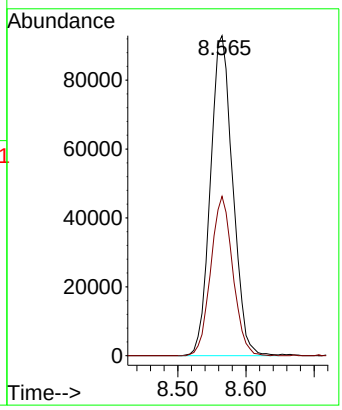


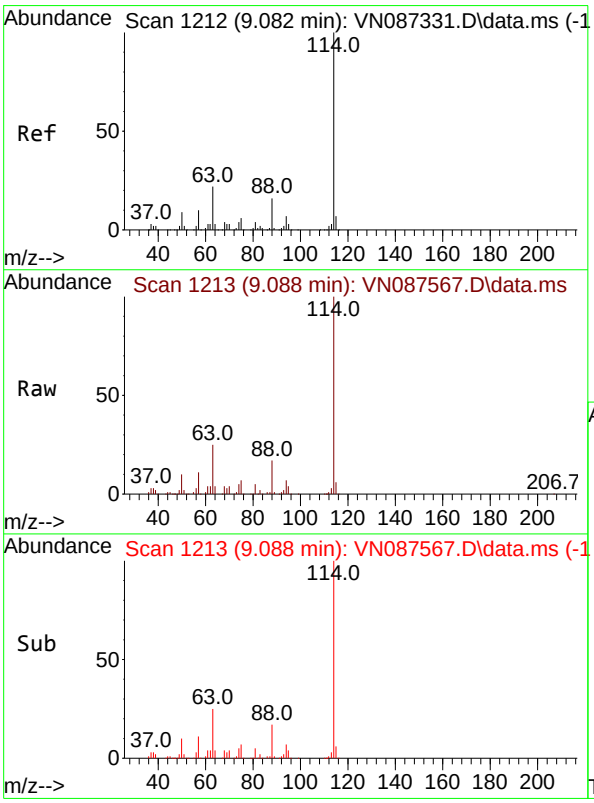

#33
1,2-Dichloroethane-d4
Concen: 57.010 ug/l
RT: 8.565 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Tgt Ion: 65 Resp: 211465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.2 | 0.0 | 104.0 |

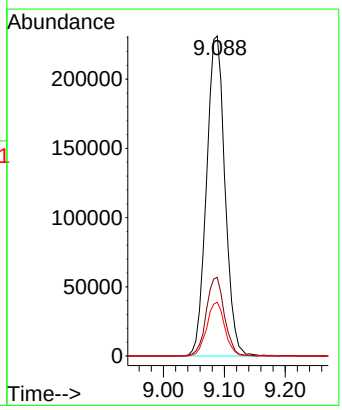


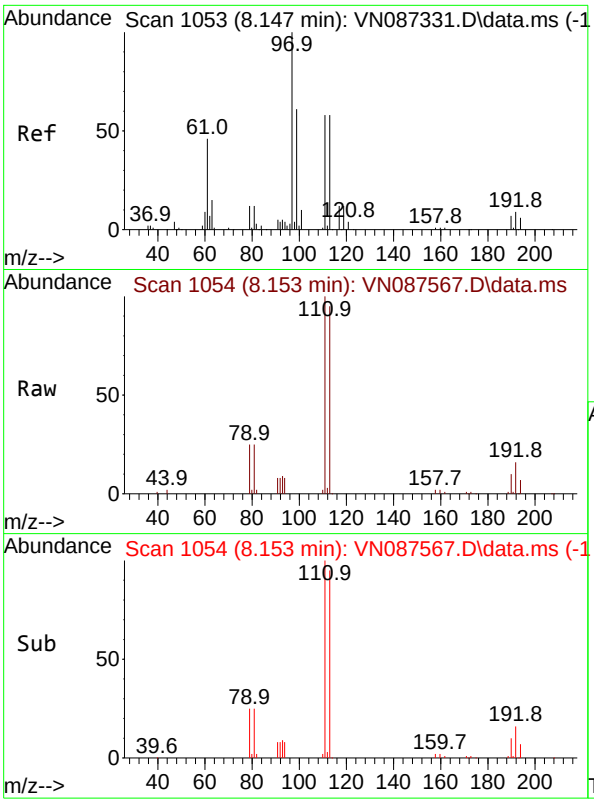




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.088 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion:114 Resp: 486591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 24.5 | 0.0 | 44.6 |
| 88 | 16.8 | 0.0 | 32.8 |



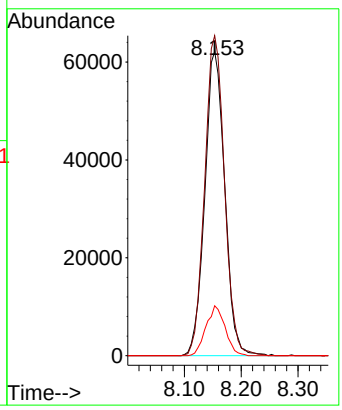


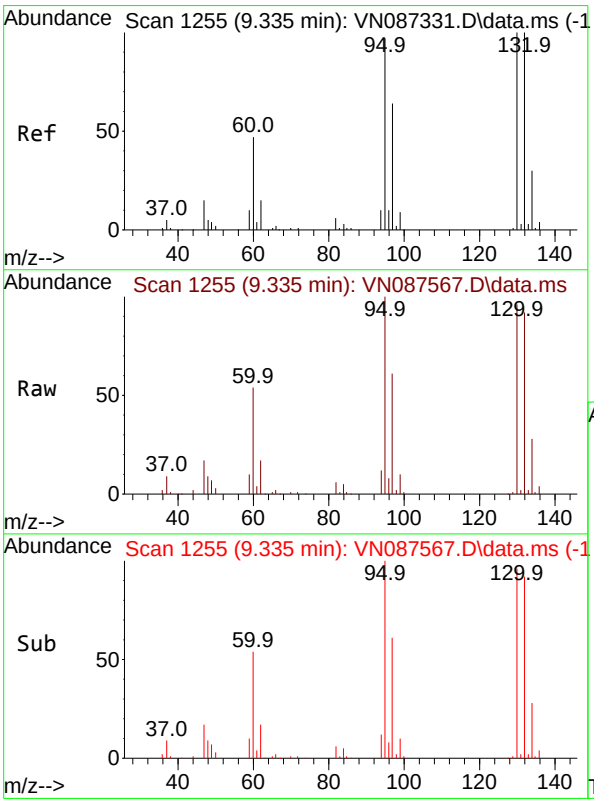

#35
Dibromofluoromethane
Concen: 45.108 ug/l
RT: 8.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Tgt Ion:113 Resp: 151404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.3 | 82.5 | 123.7 |
| 192 | 15.8 | 13.7 | 20.5 |

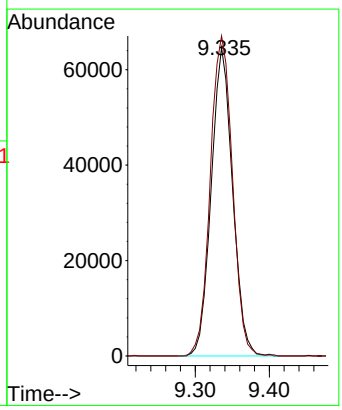


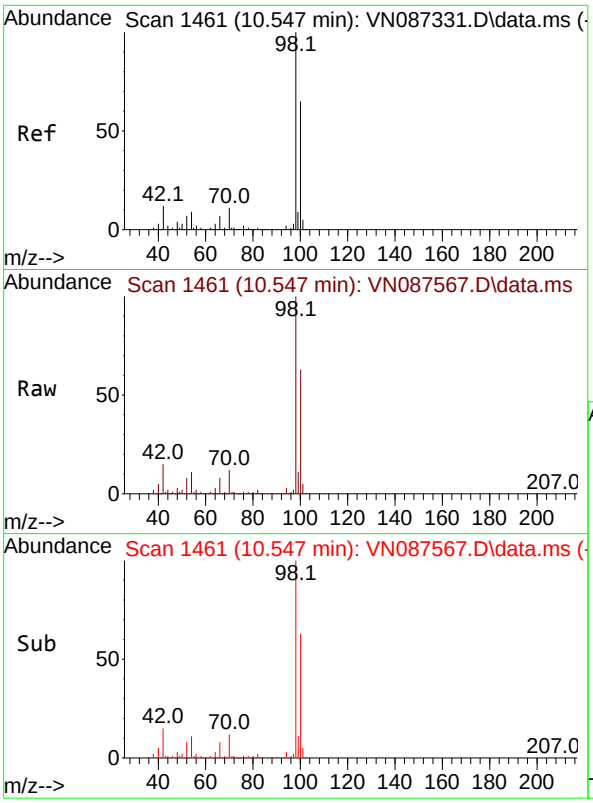




#44
Trichloroethene
Concen: 38.140 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion:130 Resp: 129163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.7 | 0.0 | 195.2 |



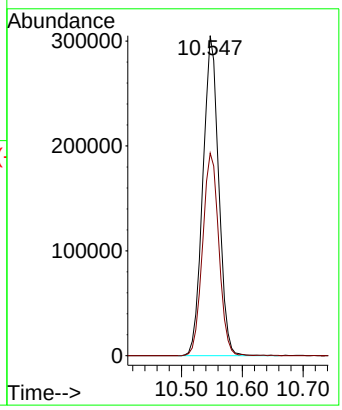


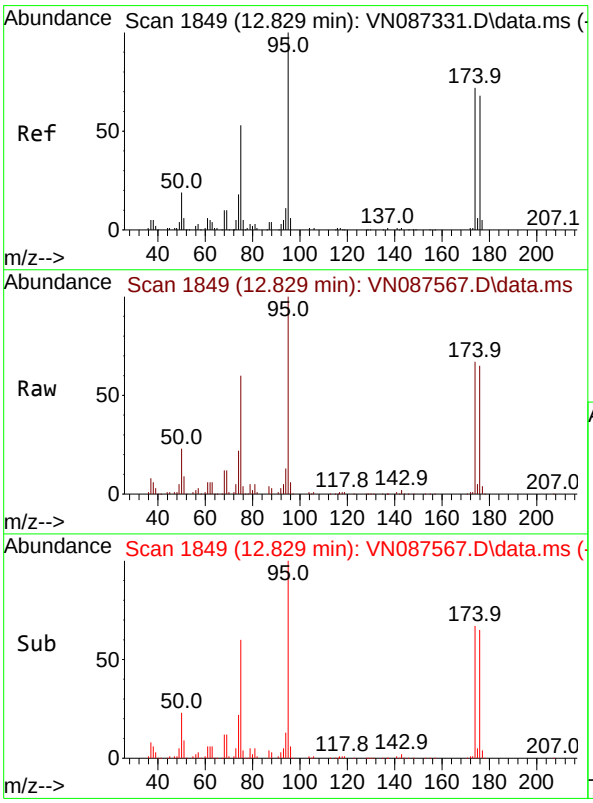

#50
Toluene-d8
Concen: 46.014 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Tgt Ion: 98 Resp: 550924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 52.1 | 78.1 |

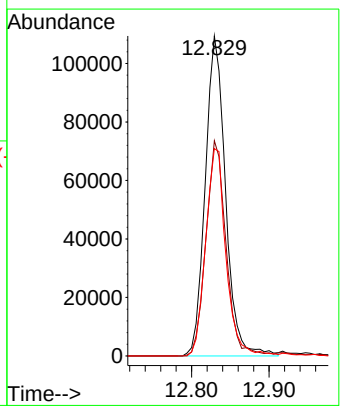


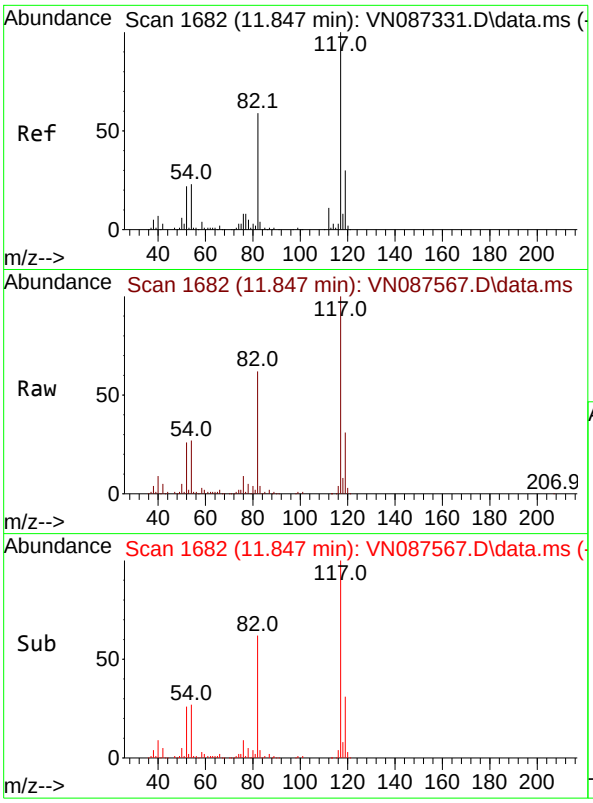




#62
4-Bromofluorobenzene
Concen: 45.043 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion: 95 Resp: 199247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.4 | 0.0 | 149.4 |
| 176 | 64.9 | 0.0 | 141.2 |



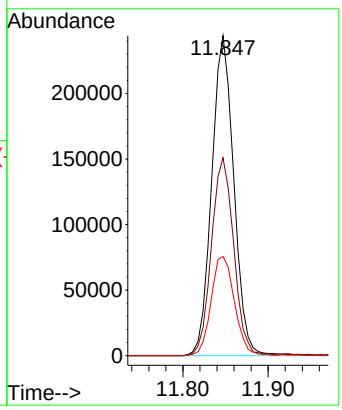


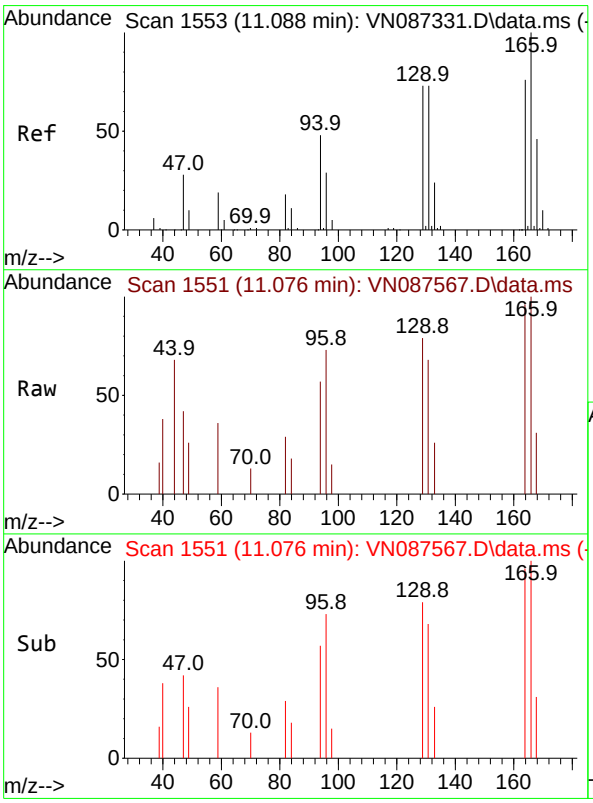

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Tgt Ion:117 Resp: 438933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.8 | 47.4 | 71.2 |
| 119 | 31.0 | 23.8 | 35.8 |

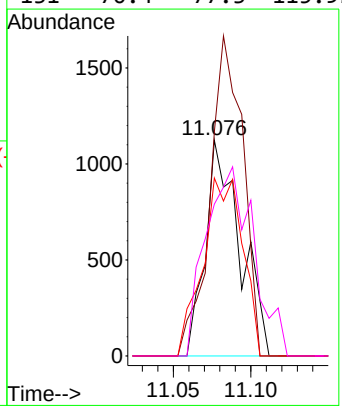


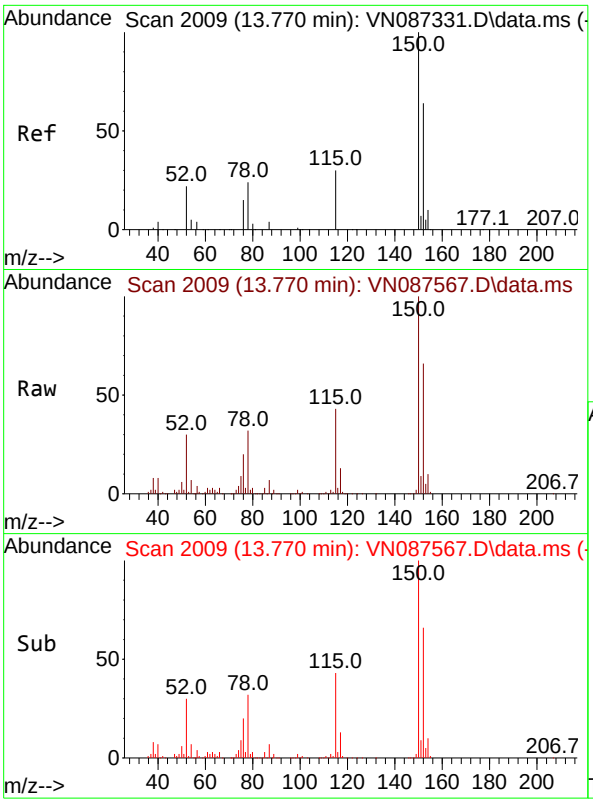




#64
Tetrachloroethene
Concen: 0.618 ug/l
RT: 11.076 min Scan# 1551
Delta R.T. -0.012 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

Tgt Ion:164 Resp: 1746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 103.9 | 105.5 | 158.3# |
| 129 | 82.5 | 77.4 | 116.2 |
| 131 | 70.4 | 77.3 | 115.9# |



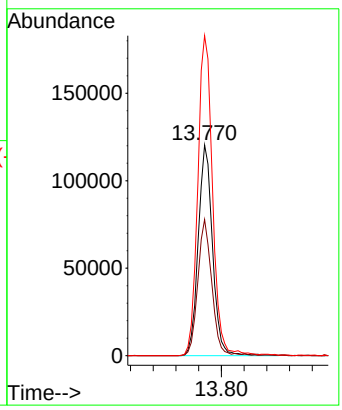



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087567.D
Acq: 14 Aug 2025 15:42

**Instrument :**
MSVOA_N
**ClientSampleId :**
RMW-02B-66.3-081225

Tgt Ion:152 Resp: 211146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.3 | 31.1 | 93.5 |
| 150 | 156.0 | 0.0 | 349.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087568.D
Acq On : 14 Aug 2025 16:04
Operator : JC\MD
Sample : Q2842-03 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225

Quant Time: Aug 14 19:59:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

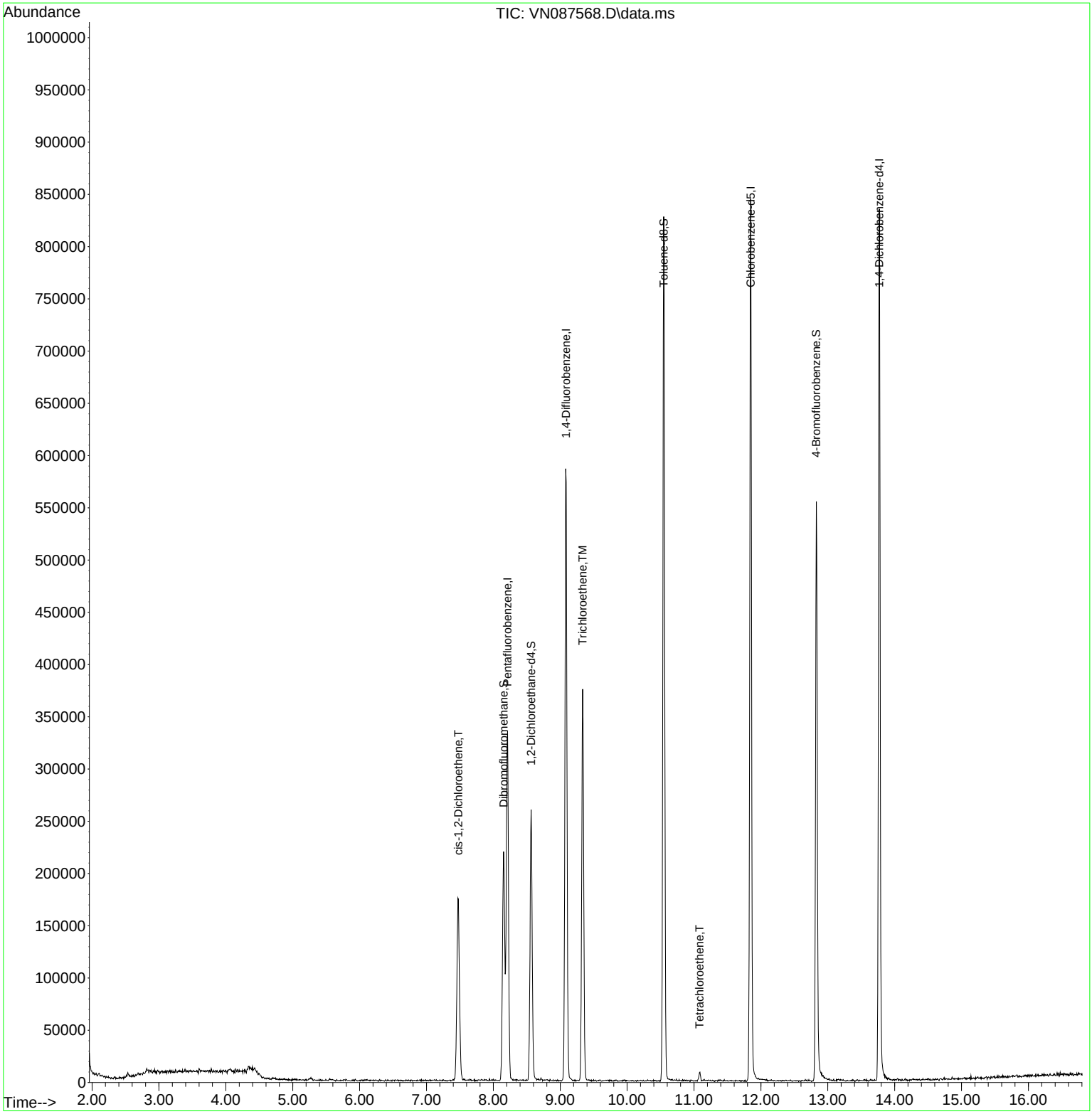
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.212 | 168 | 219937 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.088 | 114 | 487780 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 455235 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 209426 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 211074 | 56.560 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 113.120% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 151622 | 45.062 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 90.120% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 557660 | 46.463 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 92.920% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 201626 | 45.470 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 90.940% | | | |
| Target Compounds | | | | | | Qvalue |
| 27) cis-1,2-Dichloroethene | 7.477 | 96 | 99130 | 30.410 | ug/l | 93 |
| 44) Trichloroethene | 9.335 | 130 | 123655 | 36.424 | ug/l | 98 |
| 64) Tetrachloroethene | 11.082 | 164 | 1650 | 0.563 | ug/l # | 81 |

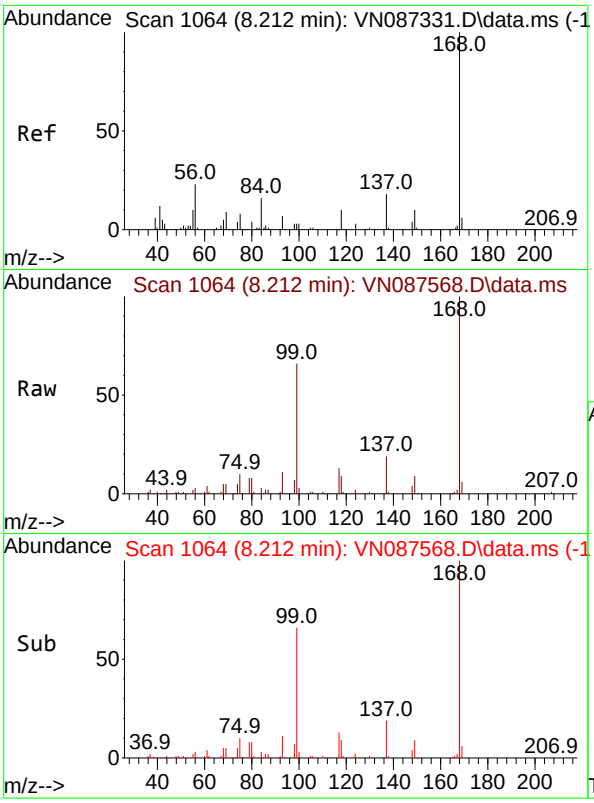
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087568.D
Acq On : 14 Aug 2025 16:04
Operator : JC\MD
Sample : Q2842-03 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225

Quant Time: Aug 14 19:59:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



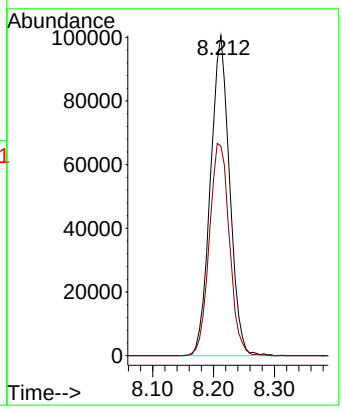


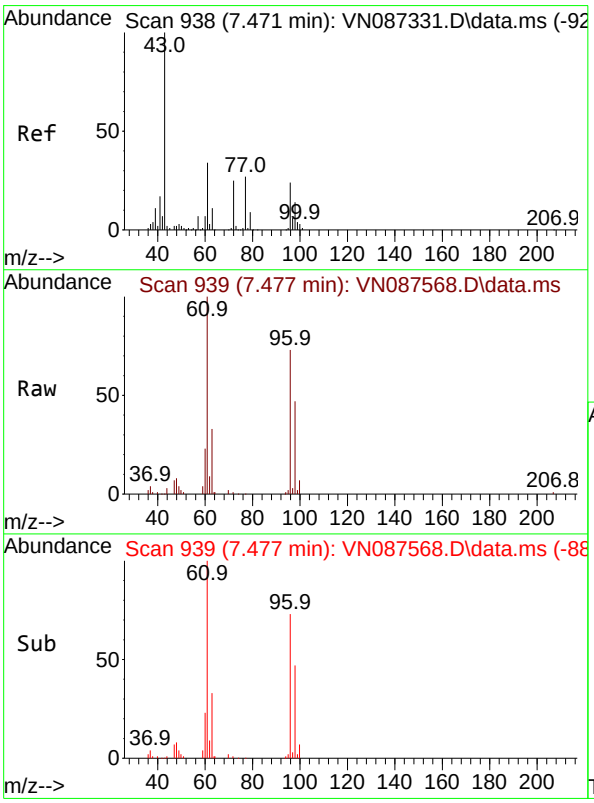

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225

Tgt Ion:168 Resp: 219937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.5 | 47.9 | 71.9 |

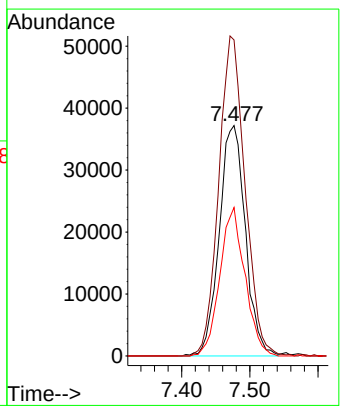


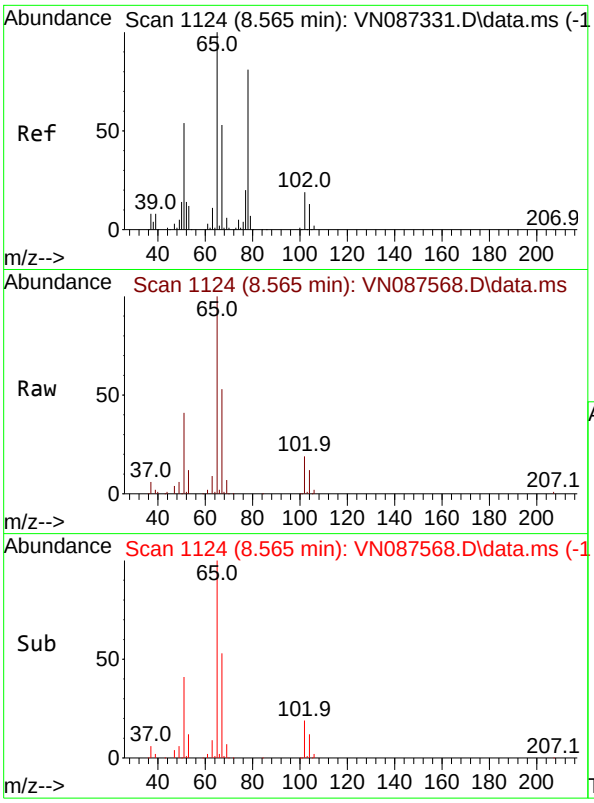




#27
cis-1,2-Dichloroethene
Concen: 30.410 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

Tgt Ion: 96 Resp: 99130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.9 | 0.0 | 297.8 |
| 98 | 62.0 | 0.0 | 132.4 |



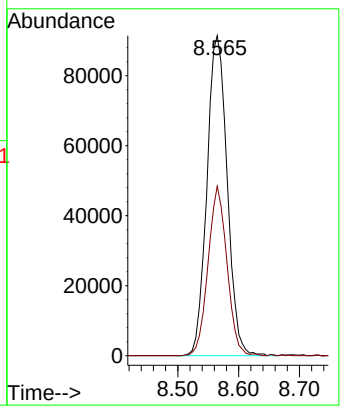


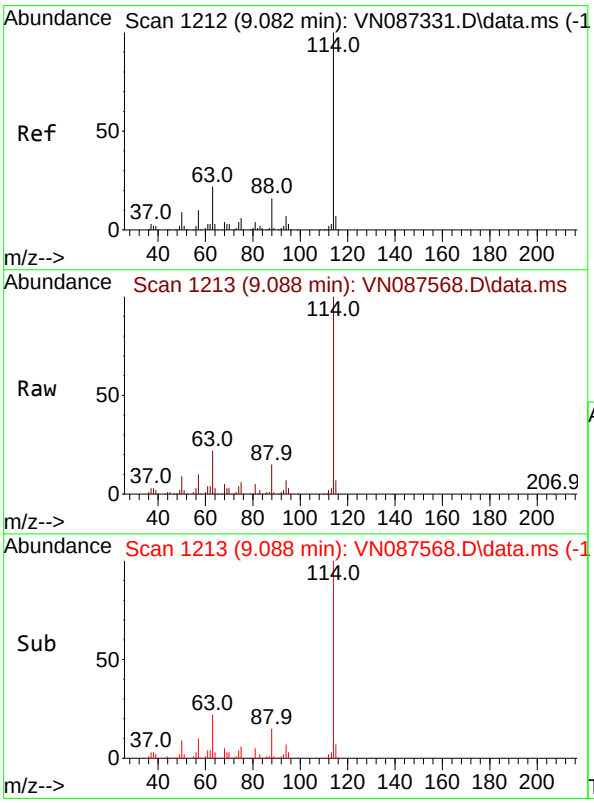

#33
1,2-Dichloroethane-d4
Concen: 56.560 ug/l
RT: 8.565 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225

Tgt Ion: 65 Resp: 211074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.4 | 0.0 | 104.0 |

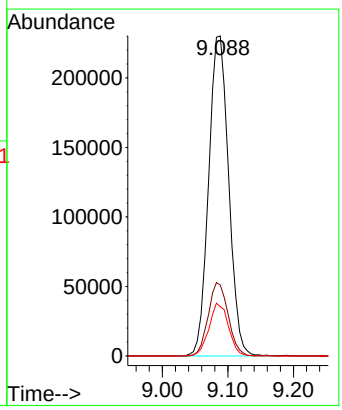


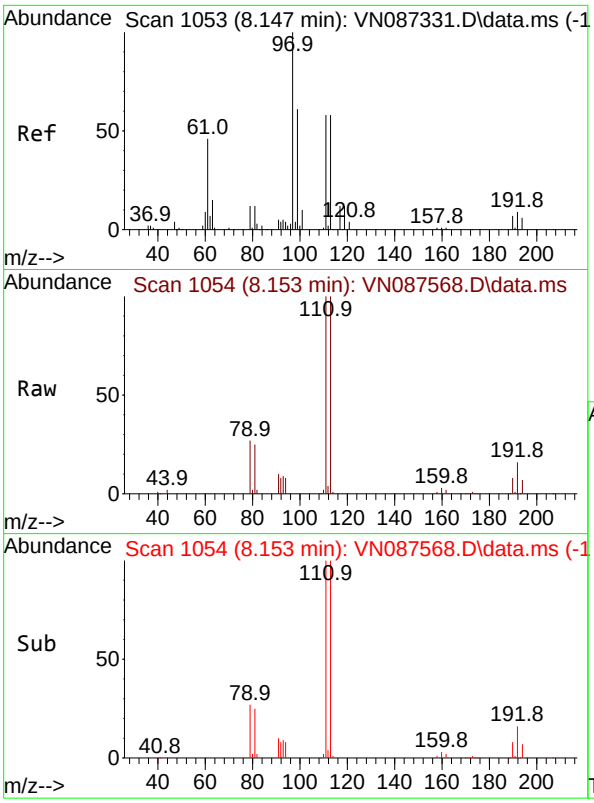




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.088 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

Tgt Ion:114 Resp: 487780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.1 | 0.0 | 44.6 |
| 88 | 15.4 | 0.0 | 32.8 |



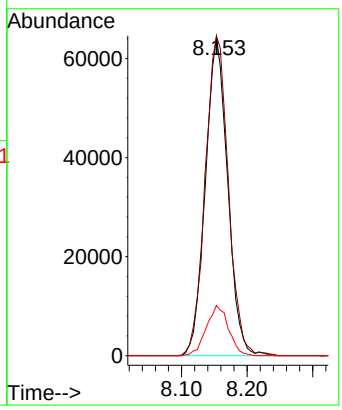


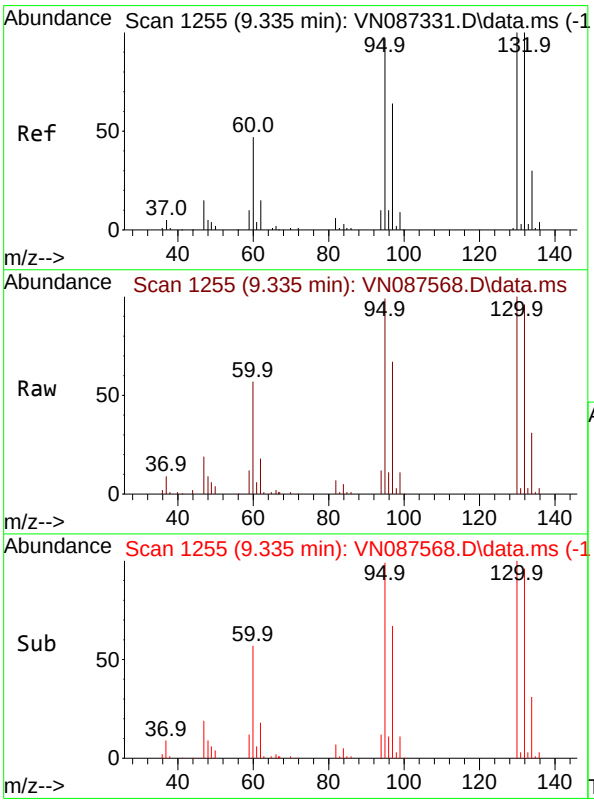

#35
Dibromofluoromethane
Concen: 45.062 ug/l
RT: 8.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225

Tgt Ion:113 Resp: 151622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.2 | 82.5 | 123.7 |
| 192 | 15.7 | 13.7 | 20.5 |

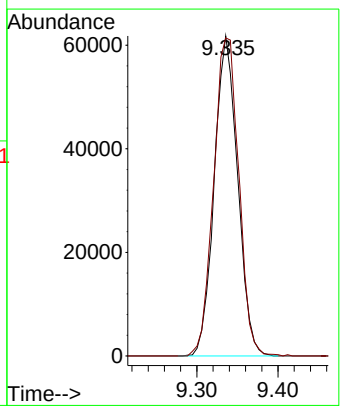


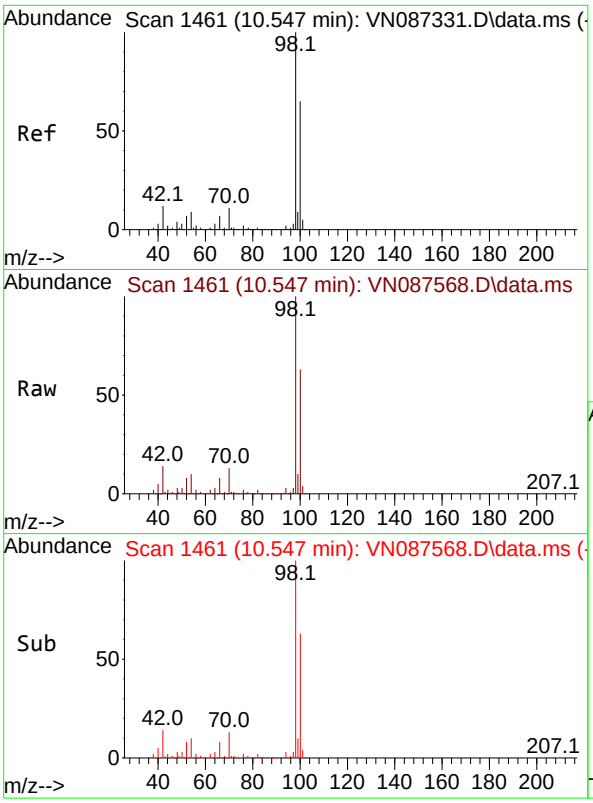




#44
Trichloroethene
Concen: 36.424 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

Tgt Ion:130 Resp: 123655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.4 | 0.0 | 195.2 |



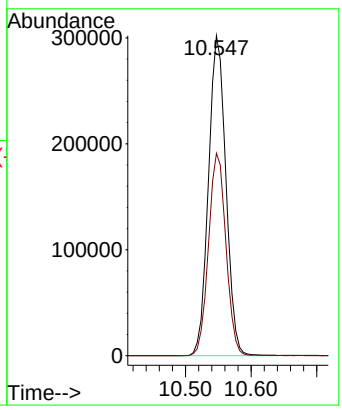


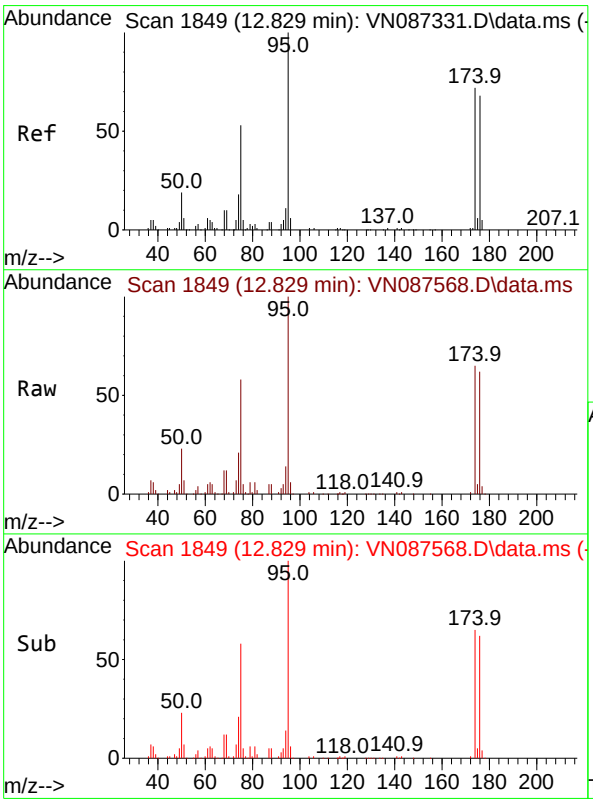

#50
Toluene-d8
Concen: 46.463 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225

Tgt Ion: 98 Resp: 557660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.3 | 52.1 | 78.1 |

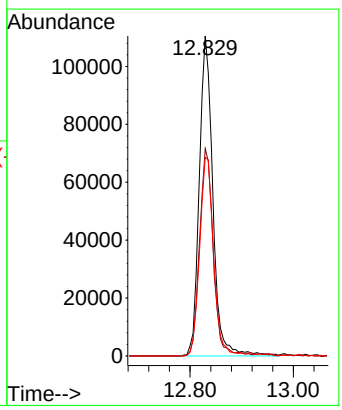


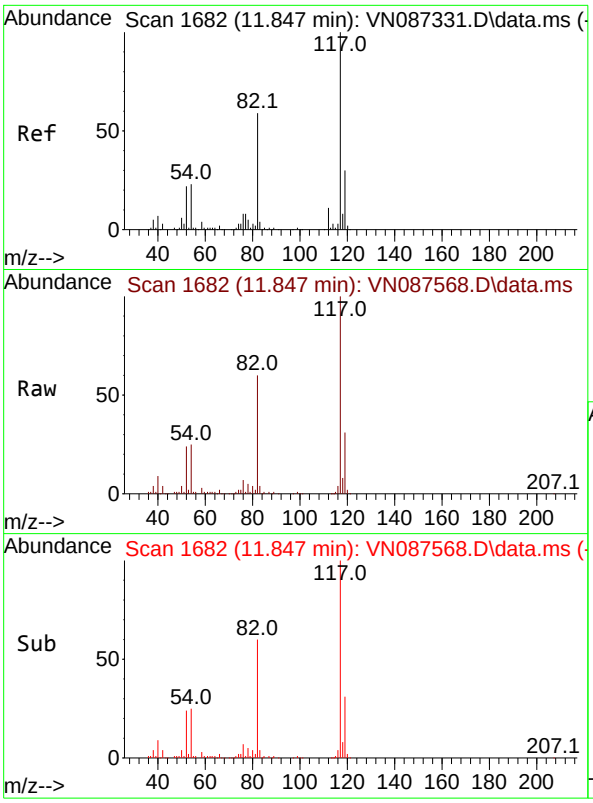




#62
4-Bromofluorobenzene
Concen: 45.470 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

Tgt Ion: 95 Resp: 201626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.3 | 0.0 | 149.4 |
| 176 | 63.8 | 0.0 | 141.2 |



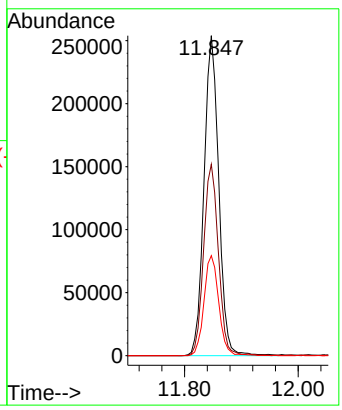


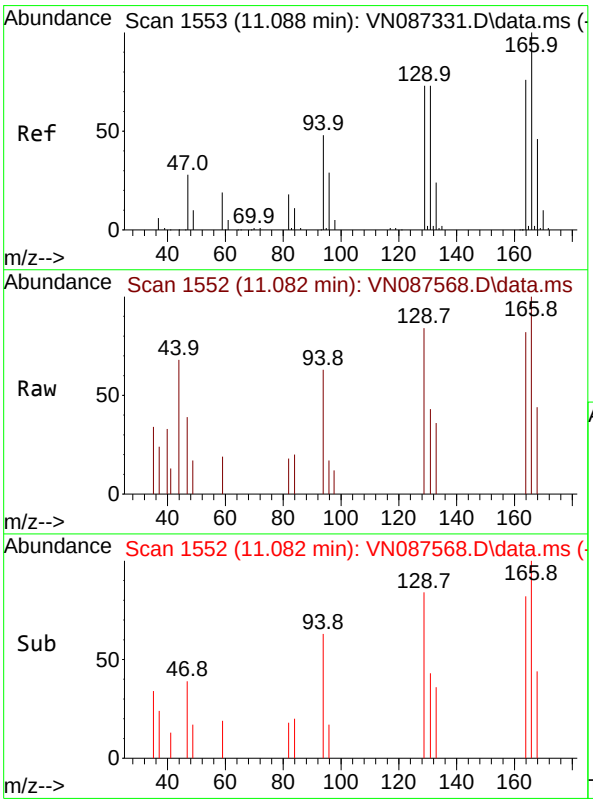

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225

Tgt Ion:117 Resp: 455235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.8 | 47.4 | 71.2 |
| 119 | 31.3 | 23.8 | 35.8 |

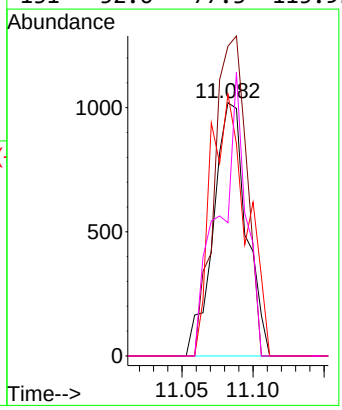


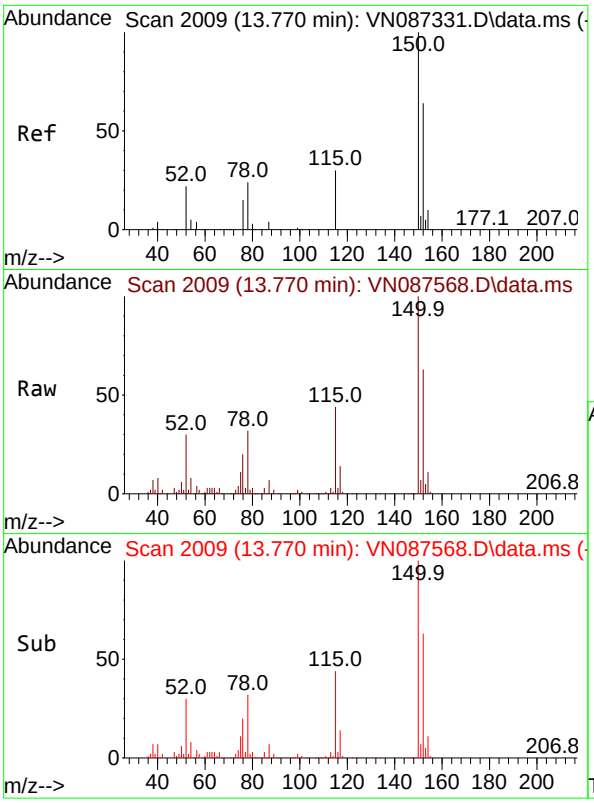




#64
Tetrachloroethene
Concen: 0.563 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.006 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

Tgt Ion:164 Resp: 1650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.4 | 105.5 | 158.3 |
| 129 | 103.2 | 77.4 | 116.2 |
| 131 | 52.6 | 77.3 | 115.9# |



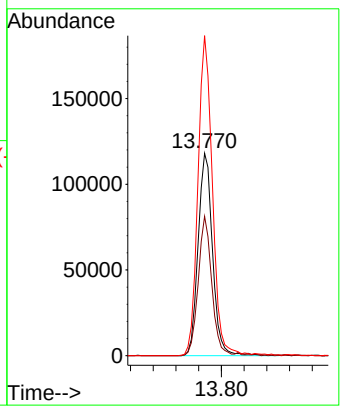



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087568.D
Acq: 14 Aug 2025 16:04

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225

Tgt Ion:152 Resp: 209426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.3 | 31.1 | 93.5 |
| 150 | 157.1 | 0.0 | 349.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087565.D
Acq On : 14 Aug 2025 14:58
Operator : JC\MD
Sample : Q2842-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-081225

Quant Time: Aug 14 15:25:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

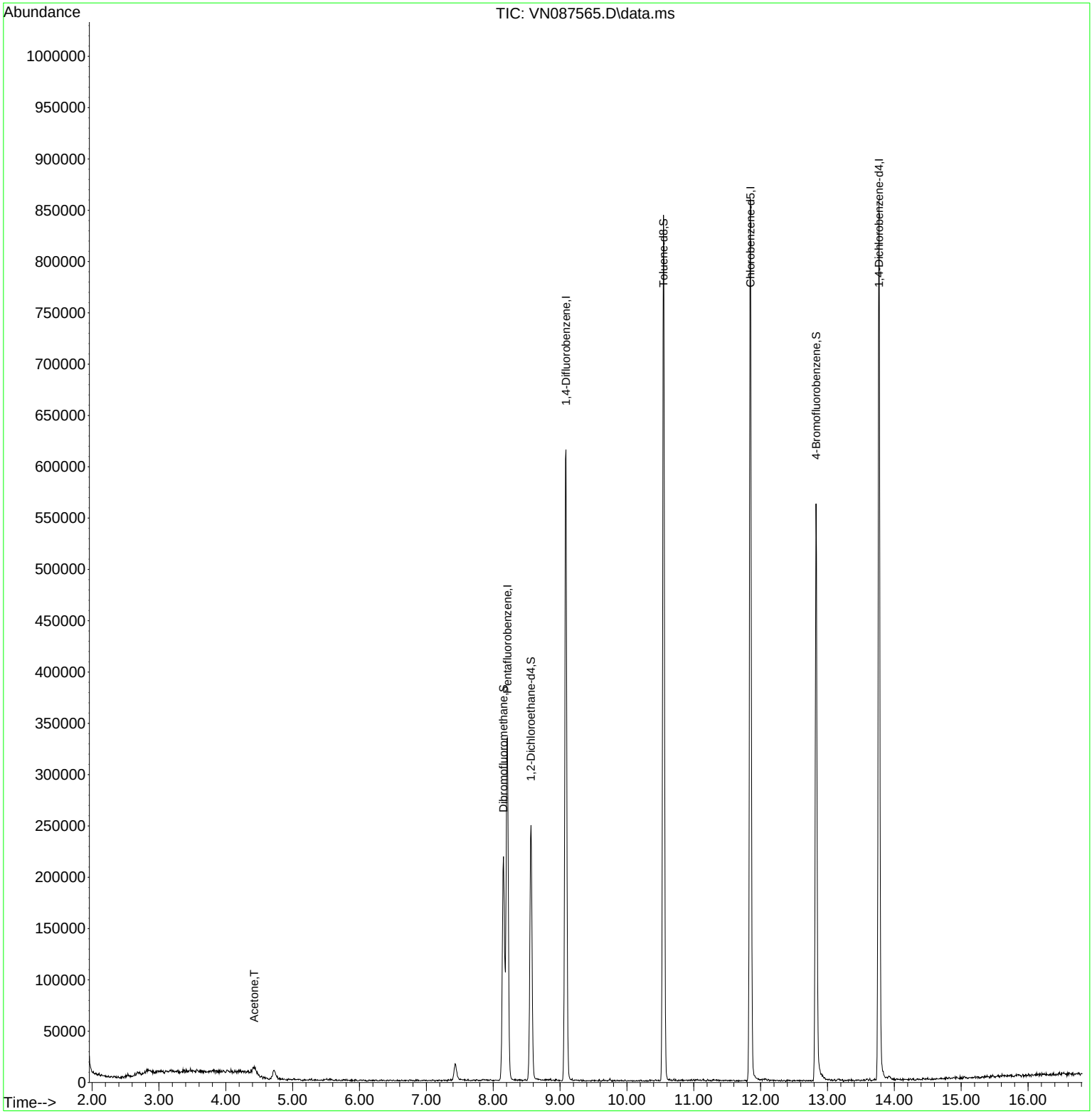
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.212 | 168 | 224412 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 9.088 | 114 | 498664 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 458661 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 214662 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 209873 | 55.117 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 110.240% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 154326 | 44.865 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 89.740% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 559384 | 45.589 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 91.180% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 200248 | 44.173 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 88.340% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.424 | 43 | 8905 | 4.988 | ug/l # | 88 |

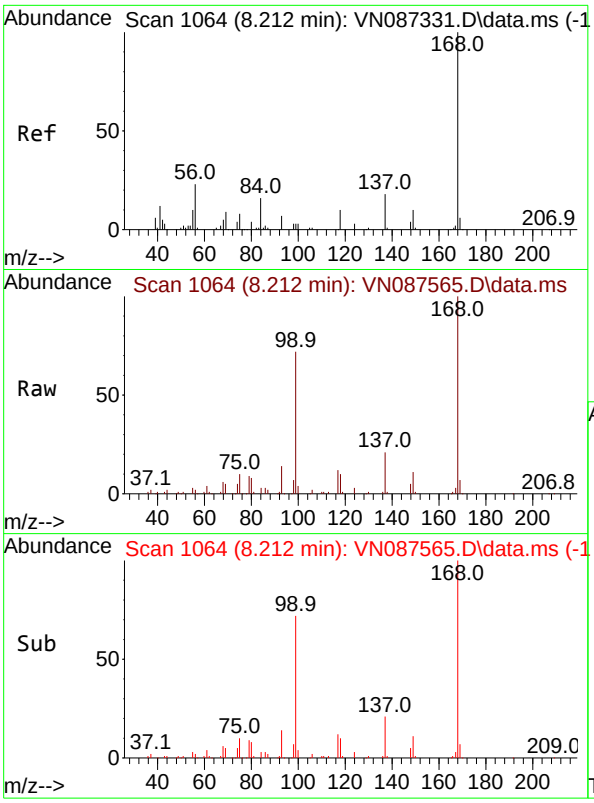
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087565.D
Acq On : 14 Aug 2025 14:58
Operator : JC\MD
Sample : Q2842-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-081225

Quant Time: Aug 14 15:25:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



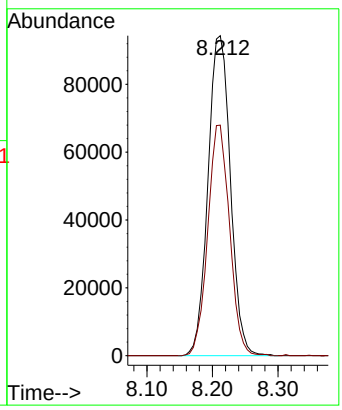


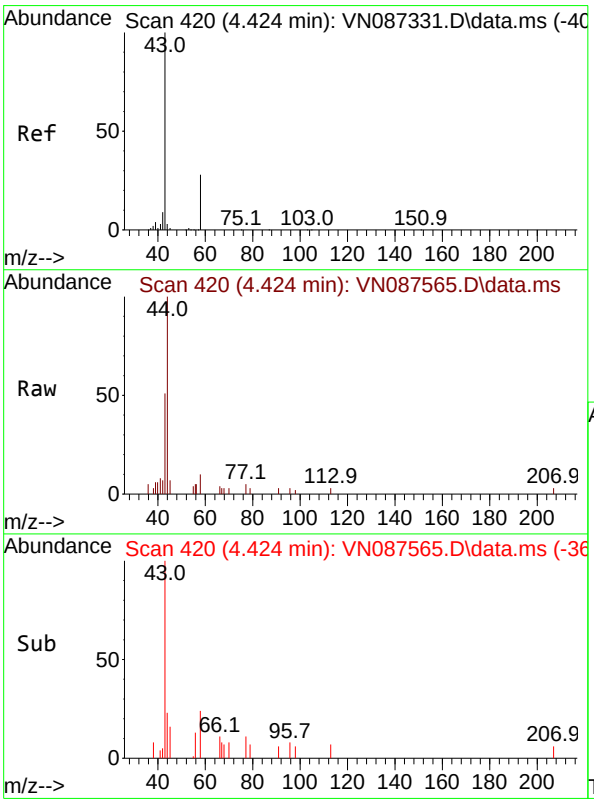

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-081225

Tgt Ion:168 Resp: 224412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 72.0 | 47.9 | 71.9# |

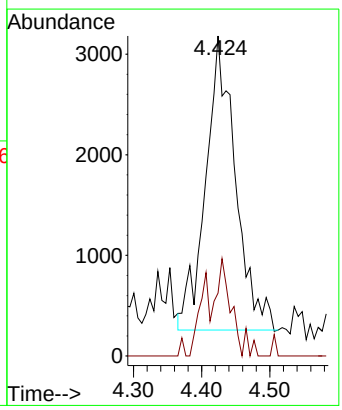


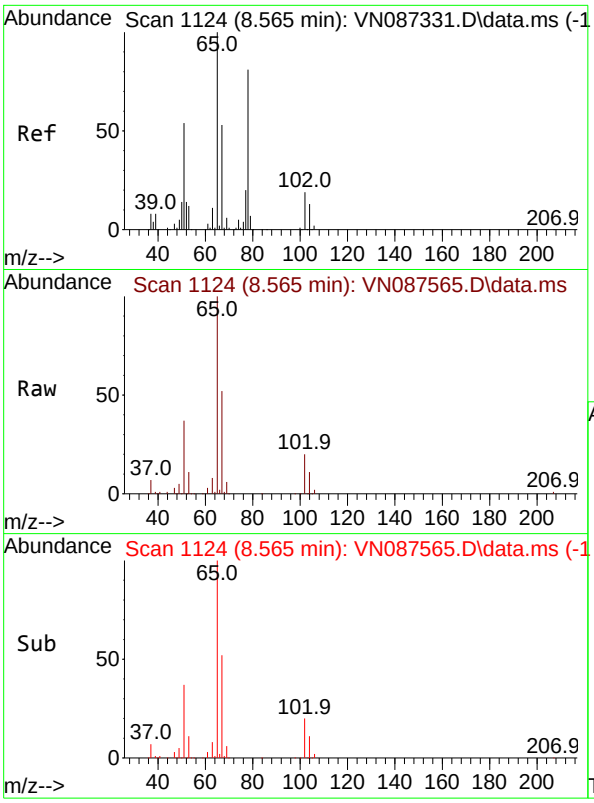




#16
Acetone
Concen: 4.988 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

Tgt Ion: 43 Resp: 8905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 21.4 | 22.3 | 33.5# |



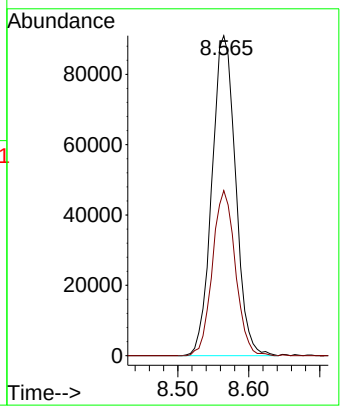


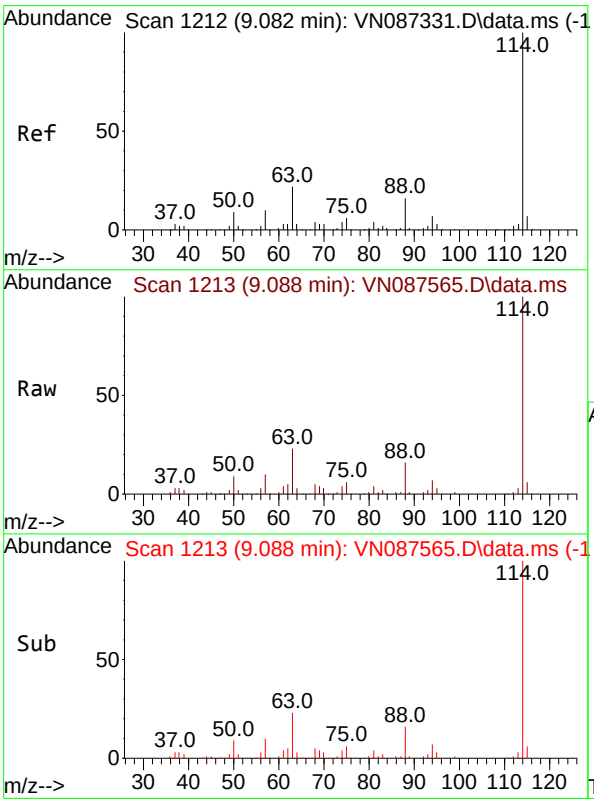

#33
1,2-Dichloroethane-d4
Concen: 55.117 ug/l
RT: 8.565 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-081225

Tgt Ion: 65 Resp: 209873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.1 | 0.0 | 104.0 |

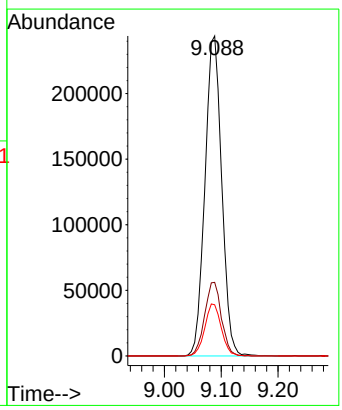


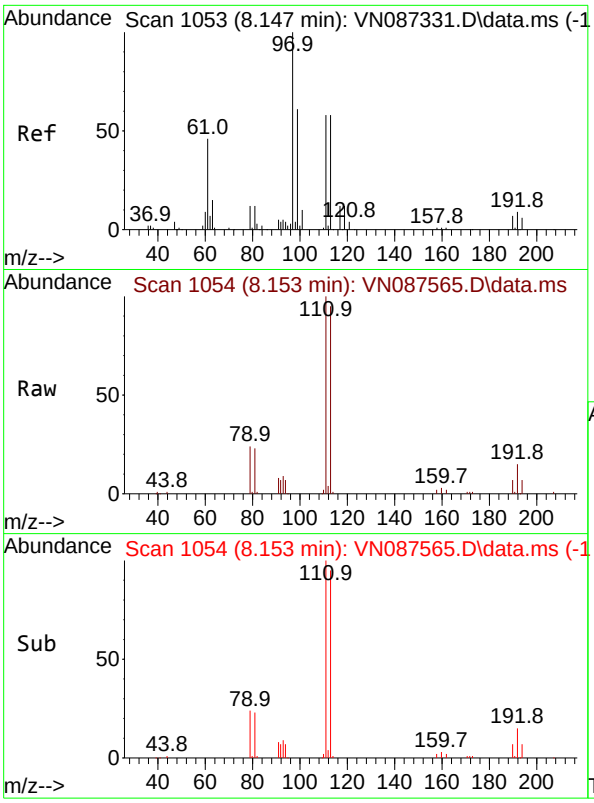




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.088 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

Tgt Ion:114 Resp: 498664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.0 | 0.0 | 44.6 |
| 88 | 16.0 | 0.0 | 32.8 |



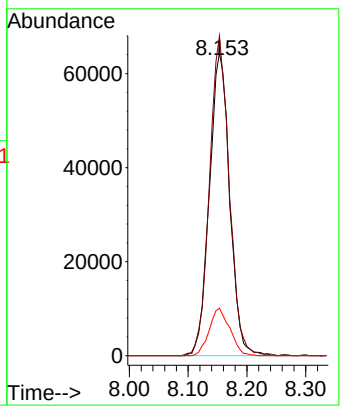


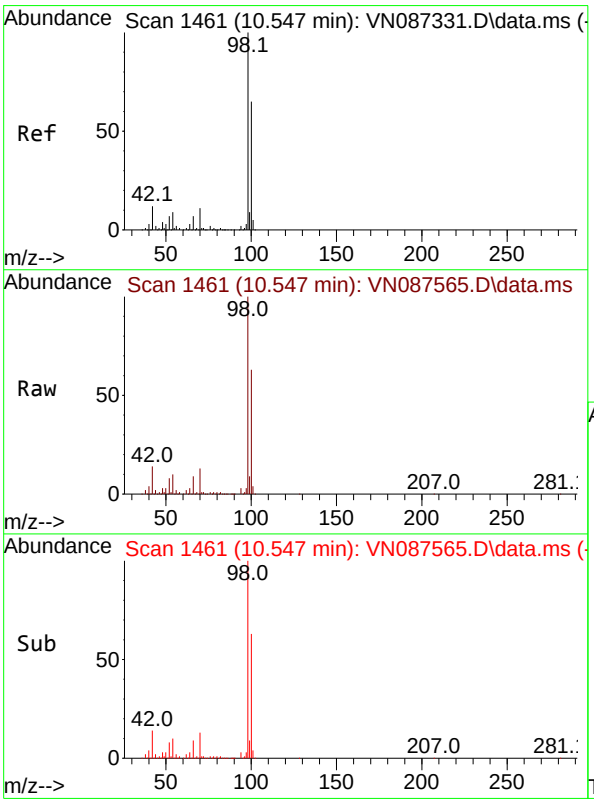

#35
Dibromofluoromethane
Concen: 44.865 ug/l
RT: 8.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-081225

Tgt Ion:113 Resp: 154326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 82.5 | 123.7 |
| 192 | 15.9 | 13.7 | 20.5 |

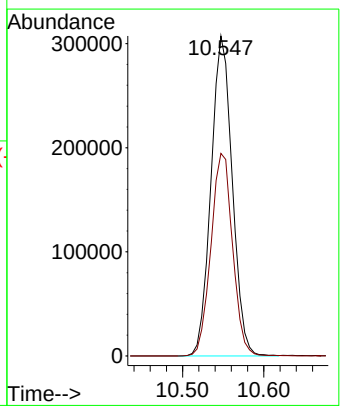


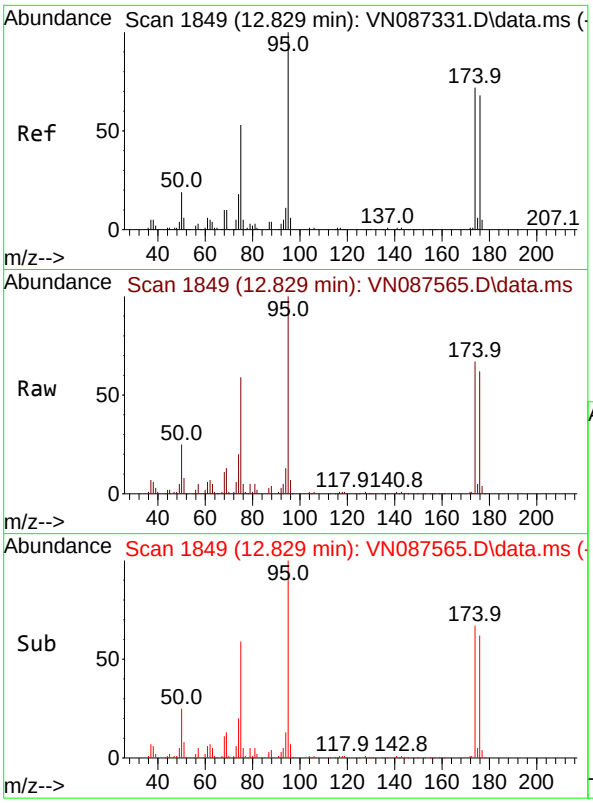




#50
Toluene-d8
Concen: 45.589 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

Tgt Ion: 98 Resp: 559384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.1 | 78.1 |



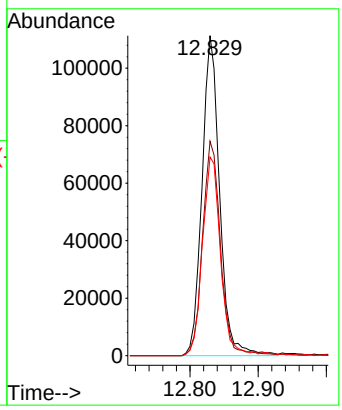


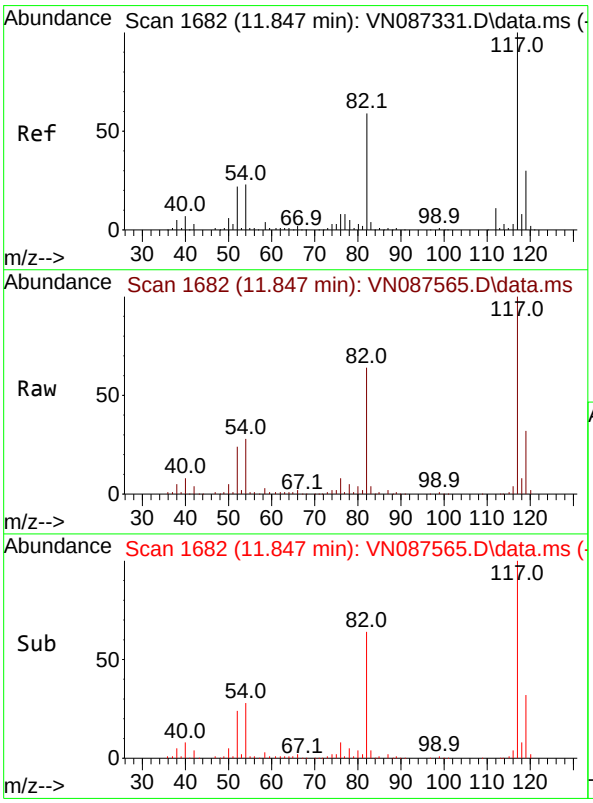

#62
4-Bromofluorobenzene
Concen: 44.173 ug/l
RT: 12.829 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-081225

Tgt Ion: 95 Resp: 200248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 68.6 | 0.0 | 149.4 |
| 176 | 63.7 | 0.0 | 141.2 |

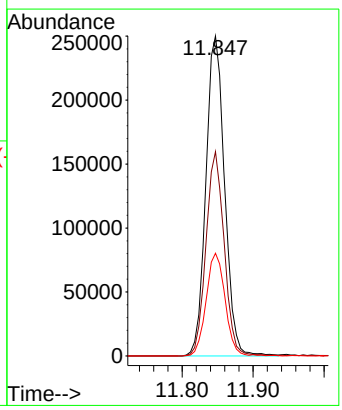


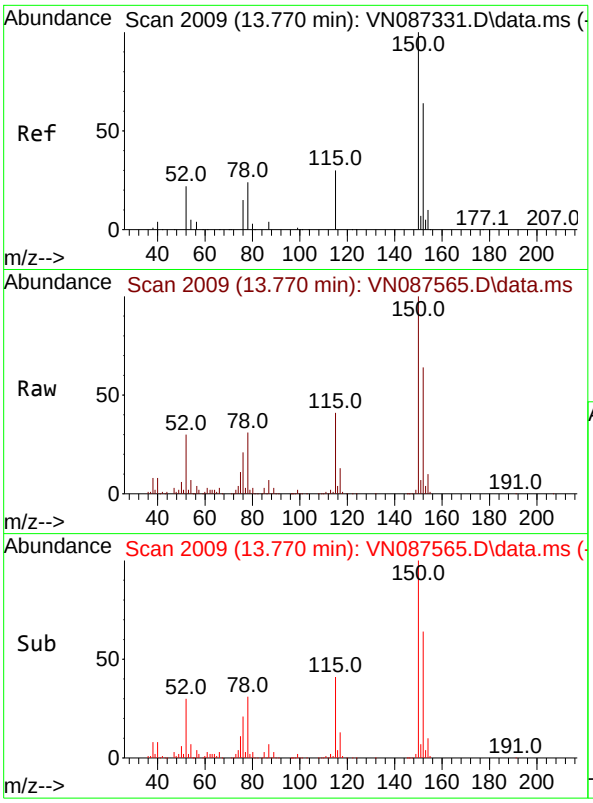




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

Tgt Ion:117 Resp: 458661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 63.8 | 47.4 | 71.2 |
| 119 | 32.1 | 23.8 | 35.8 |



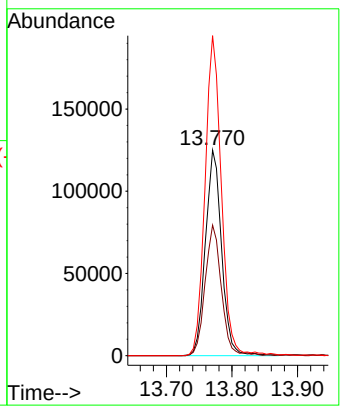



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087565.D
Acq: 14 Aug 2025 14:58

**Instrument :**
MSVOA_N
**ClientSampleId :**
TB01-081225

Tgt Ion:152 Resp: 214662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.0 | 31.1 | 93.5 |
| 150 | 156.9 | 0.0 | 349.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087554.D
Acq On : 14 Aug 2025 10:32
Operator : JC\MD
Sample : VN0814WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBL01

Quant Time: Aug 14 15:23:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

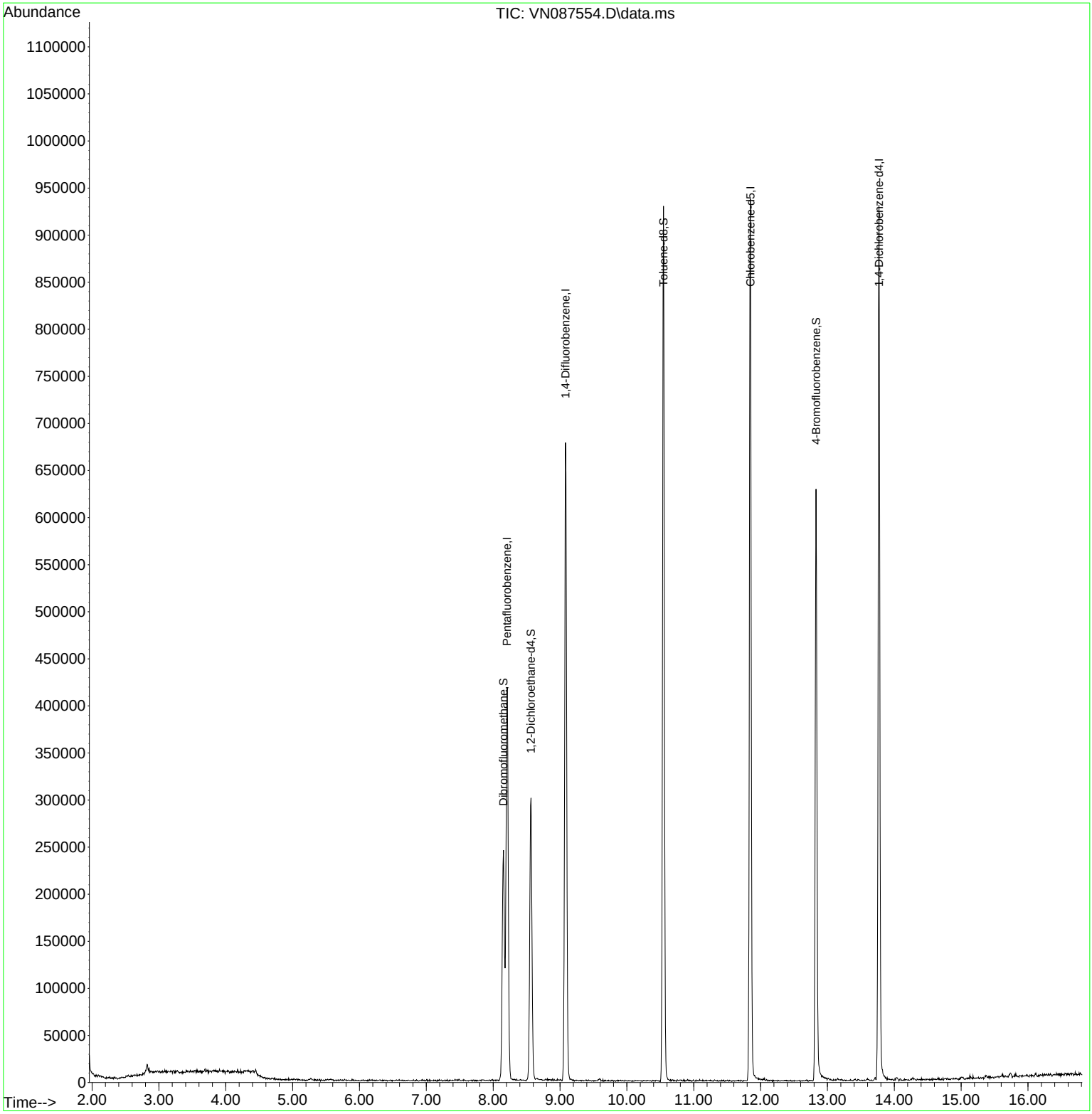
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 284398 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.083 | 114 | 560321 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 503771 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.771 | 152 | 234765 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 255137 | 52.871 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 105.740% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 170840 | 44.201 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 88.400% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 608969 | 44.169 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 88.340% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 222642 | 43.709 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 87.420% | | | |
| Target Compounds | | | | | | Qvalue |

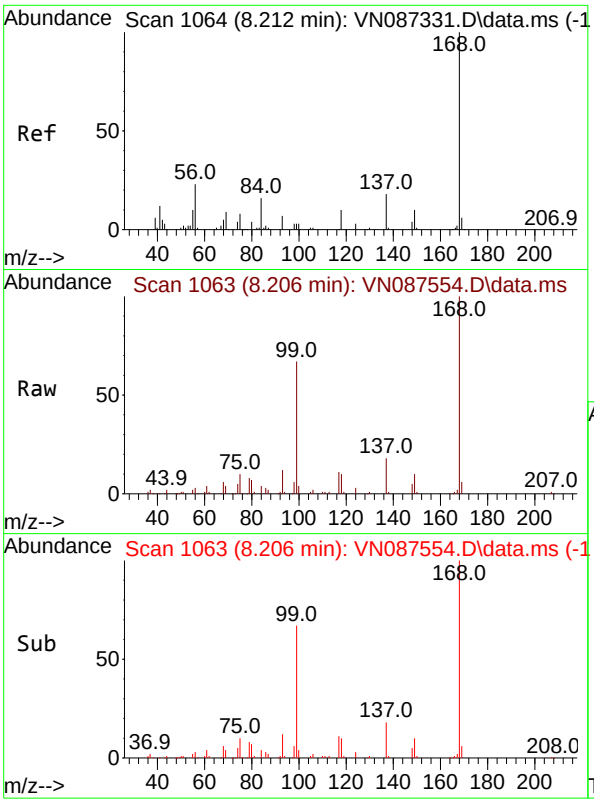
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087554.D
Acq On : 14 Aug 2025 10:32
Operator : JC\MD
Sample : VN0814WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBL01

Quant Time: Aug 14 15:23:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



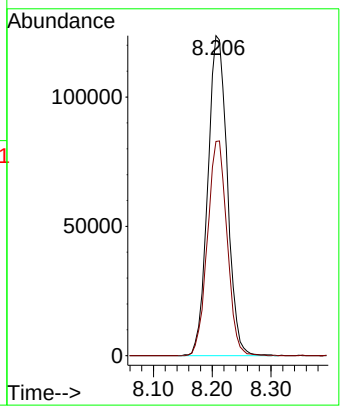


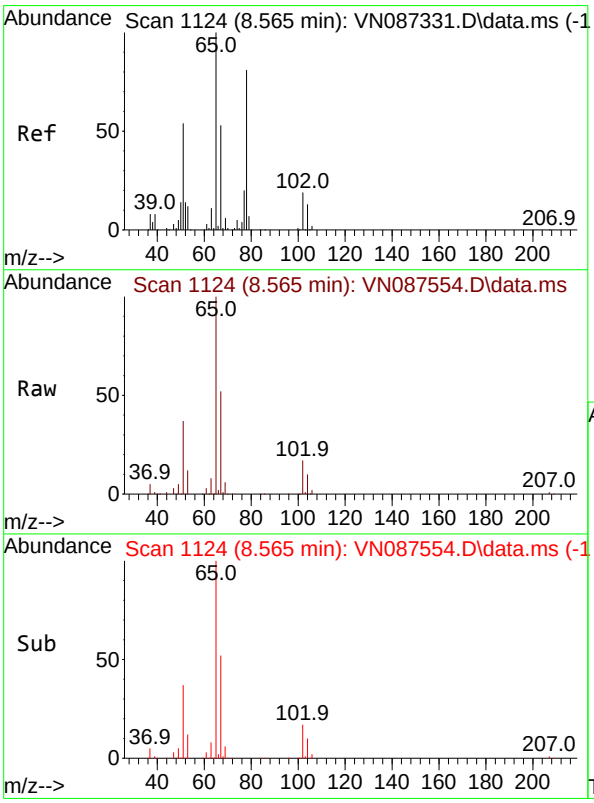

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087554.D
Acq: 14 Aug 2025 10:32

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBL01

Tgt Ion:168 Resp: 284398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 67.0 | 47.9 | 71.9 |

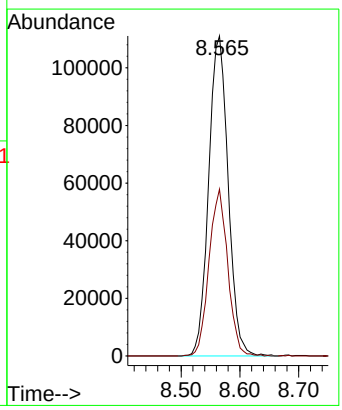


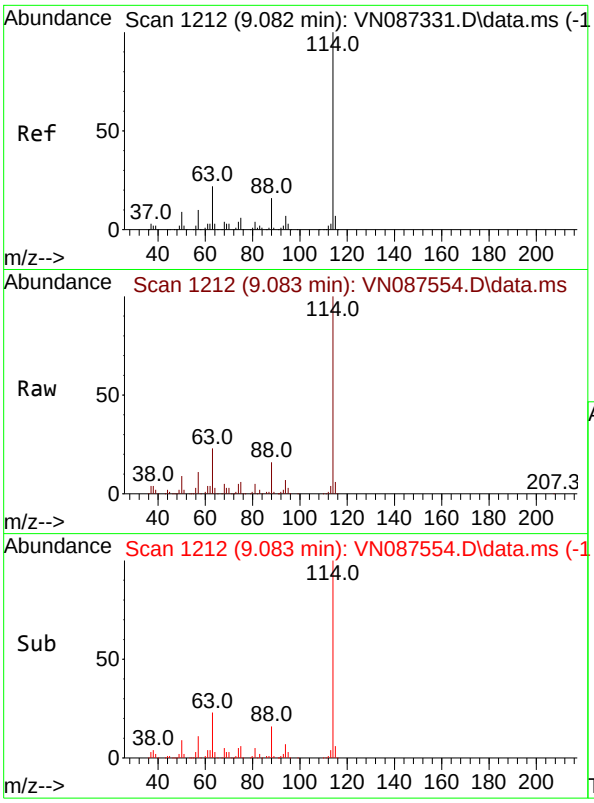




#33
1,2-Dichloroethane-d4
Concen: 52.871 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087554.D
Acq: 14 Aug 2025 10:32

Tgt Ion: 65 Resp: 255137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.2 | 0.0 | 104.0 |



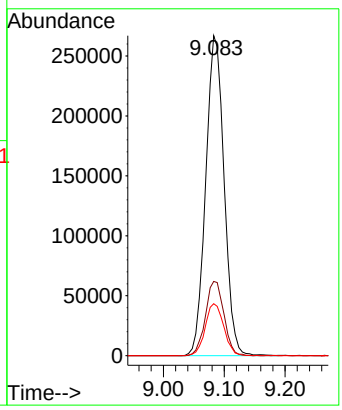


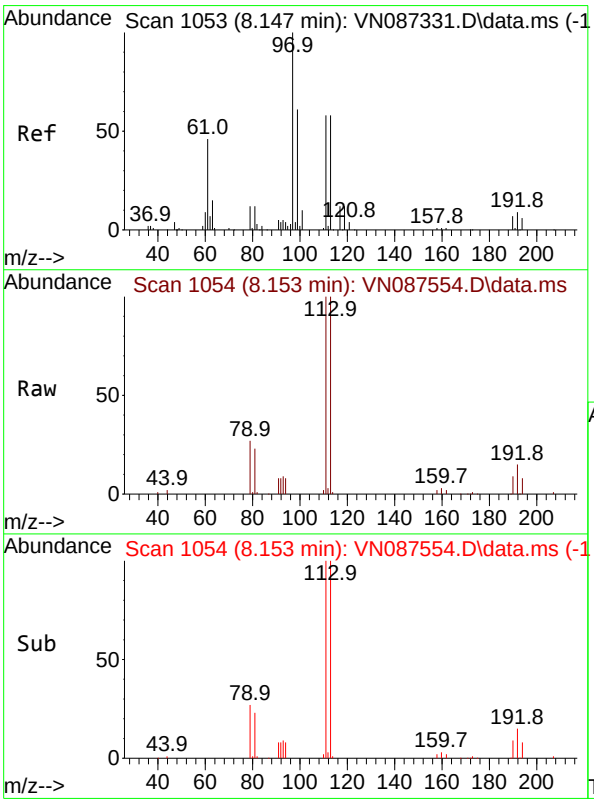

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. 0.001 min
Lab File: VN087554.D
Acq: 14 Aug 2025 10:32

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBL01

Tgt Ion:114 Resp: 560321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 23.2 | 0.0 | 44.6 |
| 88 | 16.3 | 0.0 | 32.8 |

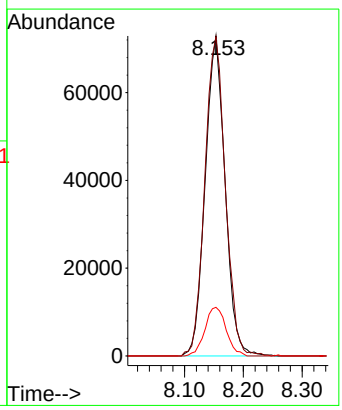


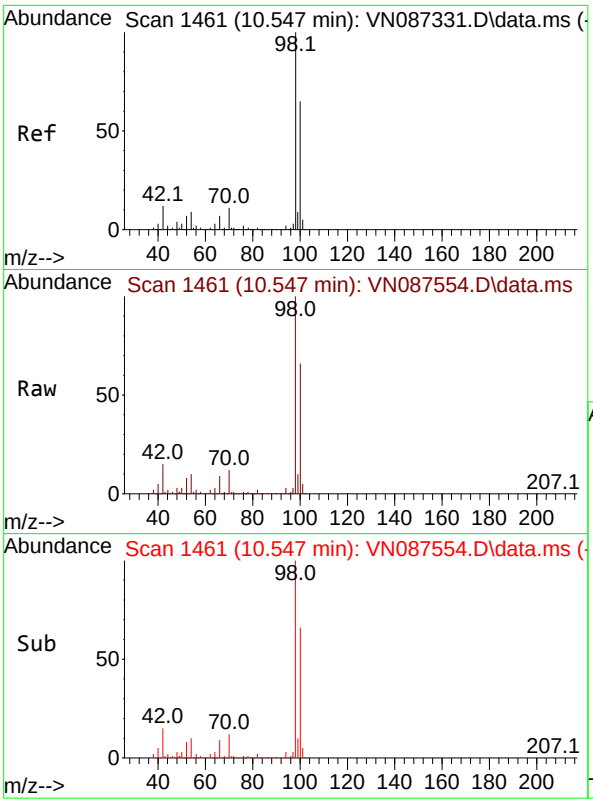




#35
Dibromofluoromethane
Concen: 44.201 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087554.D
Acq: 14 Aug 2025 10:32

Tgt Ion:113 Resp: 170840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 82.5 | 123.7 |
| 192 | 16.3 | 13.7 | 20.5 |



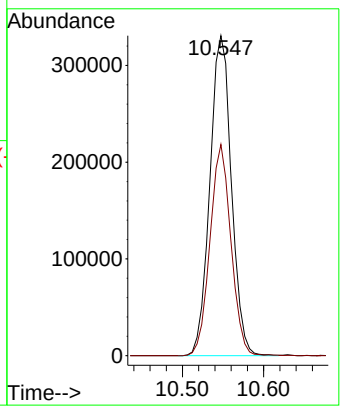


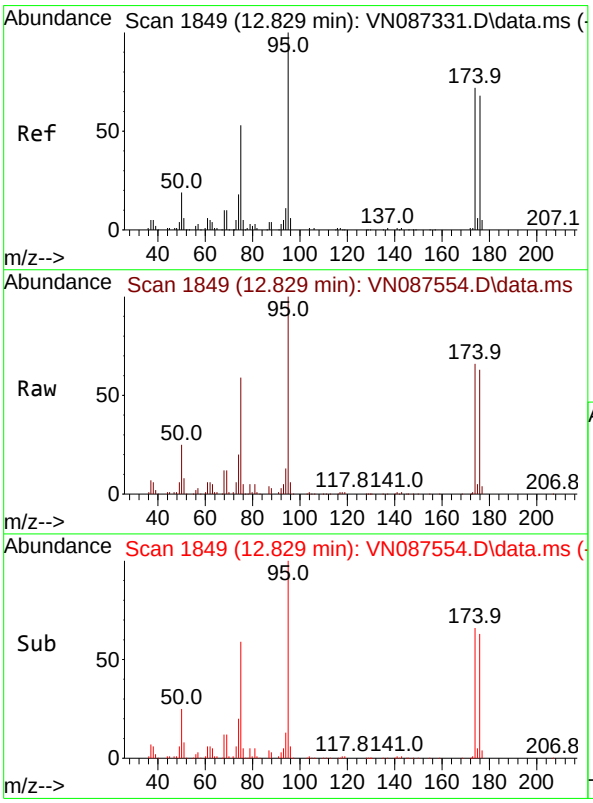

#50
Toluene-d8
Concen: 44.169 ug/l
RT: 10.547 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN087554.D
Acq: 14 Aug 2025 10:32

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBL01

Tgt Ion: 98 Resp: 608969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 52.1 | 78.1 |

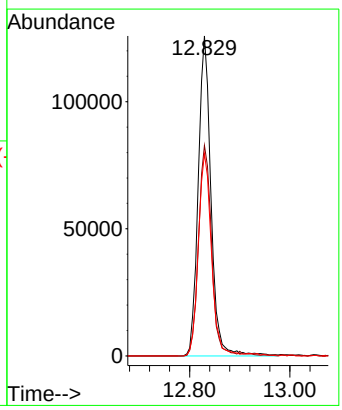


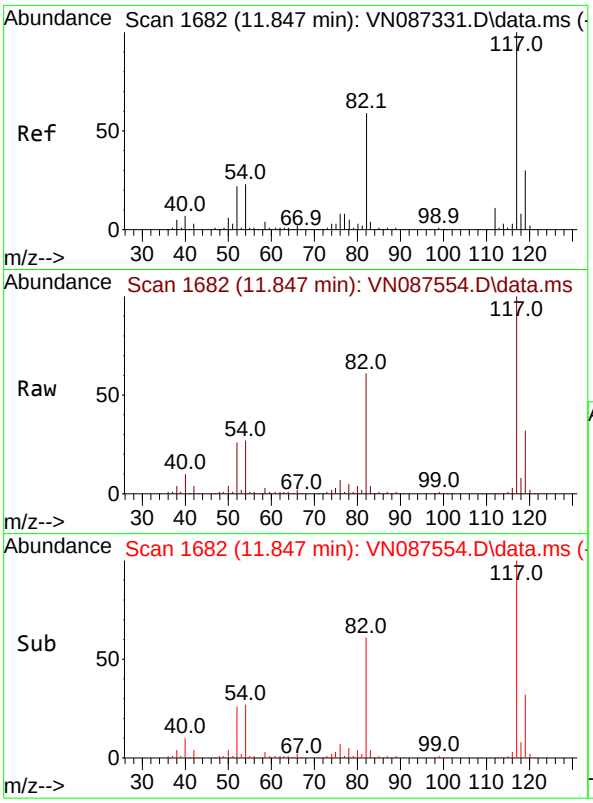




#62
4-Bromofluorobenzene
Concen: 43.709 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087554.D
Acq: 14 Aug 2025 10:32

Tgt Ion: 95 Resp: 222642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.5 | 0.0 | 149.4 |
| 176 | 64.9 | 0.0 | 141.2 |



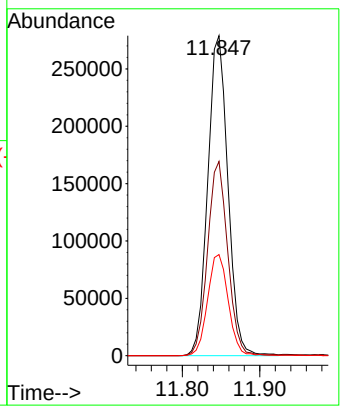


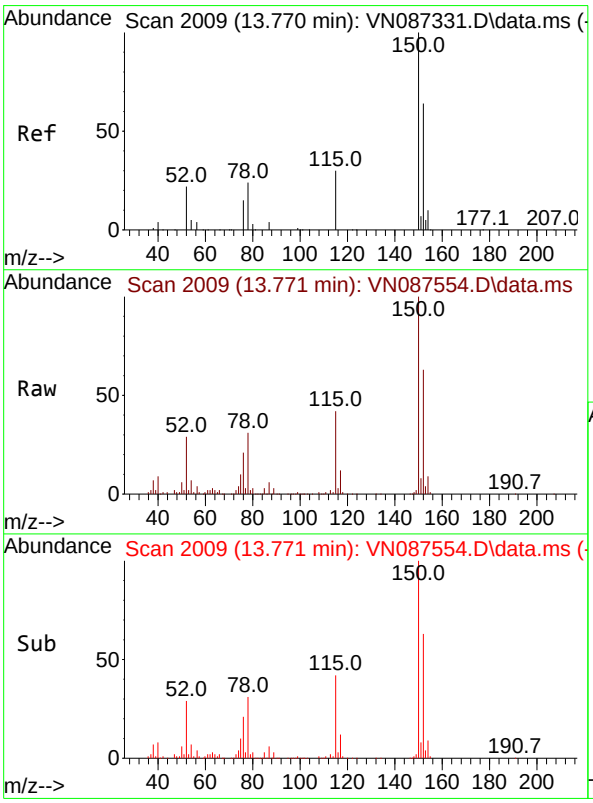

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087554.D
Acq: 14 Aug 2025 10:32

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBL01

Tgt Ion:117 Resp: 503771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.7 | 47.4 | 71.2 |
| 119 | 31.6 | 23.8 | 35.8 |

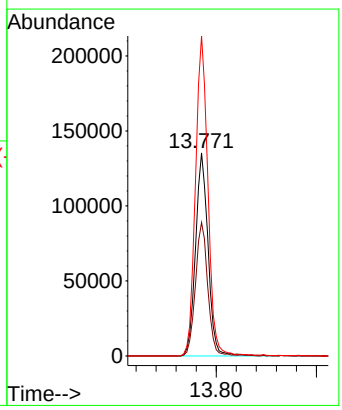



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087554.D
Acq: 14 Aug 2025 10:32

Tgt Ion:152 Resp: 234765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.5 | 31.1 | 93.5 |
| 150 | 156.1 | 0.0 | 349.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087555.D
Acq On : 14 Aug 2025 11:07
Operator : JC\MD
Sample : VN0814WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 14 15:23:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 250453 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.082 | 114 | 485218 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 446518 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 221983 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 244982 | 57.648 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 115.300% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 169668 | 50.692 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.380% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 605258 | 50.695 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 101.380% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 233458 | 52.926 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 105.860% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 60972 | 22.921 | ug/l | 92 |
| 3) Chloromethane | 2.383 | 50 | 64803 | 19.372 | ug/l | 100 |
| 4) Vinyl Chloride | 2.542 | 62 | 71080 | 21.381 | ug/l | 99 |
| 5) Bromomethane | 2.983 | 94 | 38871 | 22.579 | ug/l | 96 |
| 6) Chloroethane | 3.136 | 64 | 47553 | 21.934 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.506 | 101 | 103028 | 20.959 | ug/l | 98 |
| 8) Diethyl Ether | 3.965 | 74 | 45341 | 23.778 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 4.359 | 101 | 56020 | 22.200 | ug/l | 96 |
| 10) Methyl Iodide | 4.571 | 142 | 33911 | 17.223 | ug/l | 89 |
| 11) Tert butyl alcohol | 5.530 | 59 | 92129 | 114.174 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 4.336 | 96 | 58932 | 20.609 | ug/l | 91 |
| 13) Acrolein | 4.177 | 56 | 52972 | 81.801 | ug/l | 95 |
| 14) Allyl chloride | 5.012 | 41 | 106153 | 20.512 | ug/l | 91 |
| 15) Acrylonitrile | 5.706 | 53 | 228245 | 104.238 | ug/l | 97 |
| 16) Acetone | 4.430 | 43 | 234225 | 117.551 | ug/l | 98 |
| 17) Carbon Disulfide | 4.700 | 76 | 152230 | 17.956 | ug/l | 97 |
| 18) Methyl Acetate | 5.024 | 43 | 120344 | 24.040 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.794 | 73 | 247283 | 23.461 | ug/l | 98 |
| 20) Methylene Chloride | 5.259 | 84 | 73232 | 21.375 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.777 | 96 | 62532 | 19.394 | ug/l | 92 |
| 22) Diisopropyl ether | 6.659 | 45 | 247597 | 22.809 | ug/l | 95 |
| 23) Vinyl Acetate | 6.588 | 43 | 1129441 | 118.964 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 135050 | 21.564 | ug/l | 97 |
| 25) 2-Butanone | 7.477 | 43 | 332813 | 108.103 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 7.477 | 77 | 115630 | 23.748 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 7.477 | 96 | 78759 | 21.217 | ug/l | 94 |
| 28) Bromochloromethane | 7.800 | 49 | 75409 | 25.159 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.829 | 42 | 208941 | 104.471 | ug/l | 98 |
| 30) Chloroform | 7.953 | 83 | 140698 | 22.445 | ug/l | 99 |
| 31) Cyclohexane | 8.241 | 56 | 111696 | 21.380 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 8.153 | 97 | 115982 | 21.362 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 90752 | 20.523 | ug/l | 97 |
| 37) Ethyl Acetate | 7.547 | 43 | 131078 | 20.524 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.347 | 117 | 93434 | 19.181 | ug/l | 96 |
| 39) Methylcyclohexane | 9.582 | 83 | 96372 | 20.130 | ug/l | 93 |
| 40) Benzene | 8.588 | 78 | 289566 | 20.261 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087555.D
Acq On : 14 Aug 2025 11:07
Operator : JC\MD
Sample : VN0814WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 14 15:23:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.765 | 41 | 66759 | 19.992 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.659 | 62 | 116694 | 21.531 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.676 | 43 | 215090 | 21.696 | ug/l | | 98 |
| 44) Trichloroethene | 9.335 | 130 | 64743 | 19.172 | ug/l | | 82 |
| 45) 1,2-Dichloropropane | 9.606 | 63 | 74233 | 20.442 | ug/l | | 94 |
| 46) Dibromomethane | 9.688 | 93 | 56540 | 20.795 | ug/l | | 94 |
| 47) Bromodichloromethane | 9.871 | 83 | 112437 | 20.530 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.665 | 41 | 98225 | 22.008 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.688 | 88 | 30568 | 447.176 | ug/l | # | 100 |
| 51) 4-Methyl-2-Pentanone | 10.429 | 43 | 661207 | 105.450 | ug/l | | 98 |
| 52) Toluene | 10.612 | 92 | 177586 | 20.443 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.818 | 75 | 116338 | 20.990 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.294 | 75 | 116909 | 20.420 | ug/l | # | 82 |
| 55) 1,1,2-Trichloroethane | 10.994 | 97 | 72631 | 20.652 | ug/l | | 92 |
| 56) Ethyl methacrylate | 10.859 | 69 | 120174 | 21.091 | ug/l | # | 93 |
| 57) 1,3-Dichloropropane | 11.141 | 76 | 128302 | 21.100 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 328582 | 113.893 | ug/l | | 98 |
| 59) 2-Hexanone | 11.182 | 43 | 431325 | 103.681 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.335 | 129 | 76256 | 19.012 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 75775 | 20.492 | ug/l | | 95 |
| 64) Tetrachloroethene | 11.088 | 164 | 51988 | 18.090 | ug/l | | 94 |
| 65) Chlorobenzene | 11.870 | 112 | 192917 | 19.244 | ug/l | | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 65609 | 19.247 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.947 | 91 | 336124 | 20.367 | ug/l | | 98 |
| 68) m/p-Xylenes | 12.053 | 106 | 249595 | 40.389 | ug/l | | 94 |
| 69) o-Xylene | 12.376 | 106 | 119950 | 20.320 | ug/l | | 93 |
| 70) Styrene | 12.394 | 104 | 205053 | 20.649 | ug/l | | 96 |
| 71) Bromoform | 12.559 | 173 | 48296 | 17.538 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.676 | 105 | 314281 | 22.495 | ug/l | | 97 |
| 74) N-amyl acetate | 12.535 | 43 | 108512m | 18.694 | ug/l | | |
| 75) 1,1,2,2-Tetrachloroethane | 12.923 | 83 | 115038 | 21.882 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.976 | 75 | 100267m | 20.143 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 73544 | 20.297 | ug/l | | 91 |
| 78) n-propylbenzene | 13.017 | 91 | 389520 | 22.160 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 13.106 | 91 | 241476 | 22.353 | ug/l | | 94 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 262222 | 22.029 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.723 | 75 | 32197 | 17.698 | ug/l | | 91 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 250722 | 22.292 | ug/l | | 95 |
| 83) tert-Butylbenzene | 13.417 | 119 | 222918 | 22.422 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 13.464 | 105 | 269488 | 22.169 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.594 | 105 | 329434 | 21.998 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 272080 | 22.671 | ug/l | | 97 |
| 87) 1,3-Dichlorobenzene | 13.711 | 146 | 145480 | 20.458 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.794 | 146 | 150121 | 19.766 | ug/l | | 97 |
| 89) n-Butylbenzene | 14.035 | 91 | 270370 | 23.593 | ug/l | | 98 |
| 90) Hexachloroethane | 14.311 | 117 | 49037 | 19.285 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 14.088 | 146 | 138916 | 20.620 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75 | 27318 | 19.792 | ug/l | | 92 |
| 93) 1,2,4-Trichlorobenzene | 15.364 | 180 | 83245 | 21.036 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.476 | 225 | 31065 | 21.127 | ug/l | | 99 |
| 95) Naphthalene | 15.617 | 128 | 298554 | 21.296 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.811 | 180 | 78959 | 19.891 | ug/l | | 95 |

Sample Results: **VN087555.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087555.D
Acq On : 14 Aug 2025 11:07
Operator : JC\MD
Sample : VN0814WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 14 15:23:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025

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

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

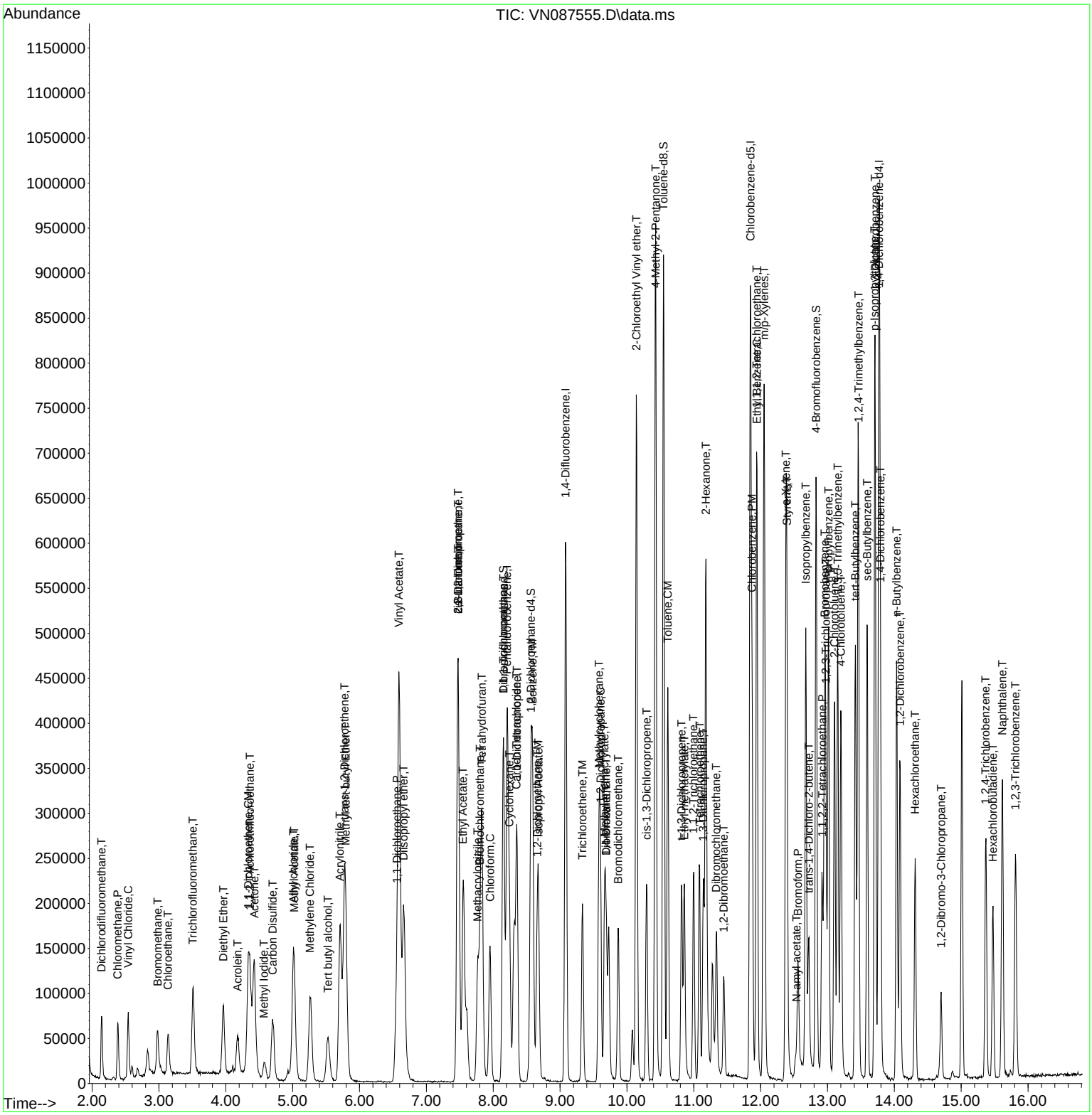
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087555.D
Acq On : 14 Aug 2025 11:07
Operator : JC\MD
Sample : VN0814WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 14 15:23:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
VN0814WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/18/2025
Supervised By :Mahesh Dadoda 08/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087569.D
Acq On : 14 Aug 2025 16:27
Operator : JC\MD
Sample : Q2842-04MS 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 14 19:59:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225MS

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/15/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.206 | 168 | 238067 | 50.000 | ug/l | # 0.00 |
| 34) 1,4-Difluorobenzene | 9.083 | 114 | 461160 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 435202 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 231778 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 217494 | 53.842 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 107.680% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 152403 | 47.909 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 95.820% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 543343 | 47.883 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 95.760% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 216897 | 51.737 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 103.480% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 143419 | 56.720 | ug/l | 100 |
| 3) Chloromethane | 2.383 | 50 | 152078 | 47.827 | ug/l | 100 |
| 4) Vinyl Chloride | 2.542 | 62 | 169468 | 53.629 | ug/l | 95 |
| 5) Bromomethane | 2.971 | 94 | 89339 | 54.595 | ug/l | 96 |
| 6) Chloroethane | 3.136 | 64 | 114275 | 55.452 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.501 | 101 | 253745 | 54.304 | ug/l | 97 |
| 8) Diethyl Ether | 3.965 | 74 | 112077 | 61.834 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.359 | 101 | 138606 | 57.785 | ug/l | 95 |
| 10) Methyl Iodide | 4.577 | 142 | 91710 | 38.610 | ug/l | 91 |
| 11) Tert butyl alcohol | 5.536 | 59 | 219902 | 286.700 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.330 | 96 | 140041 | 51.521 | ug/l | 99 |
| 13) Acrolein | 4.177 | 56 | 135355 | 219.895 | ug/l | 99 |
| 14) Allyl chloride | 5.012 | 41 | 254609 | 51.759 | ug/l | 94 |
| 15) Acrylonitrile | 5.712 | 53 | 562090 | 270.058 | ug/l | 98 |
| 16) Acetone | 4.430 | 43 | 530238 | 279.957 | ug/l | 98 |
| 17) Carbon Disulfide | 4.700 | 76 | 356757 | 44.270 | ug/l # | 93 |
| 18) Methyl Acetate | 5.018 | 43 | 302650 | 63.602 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.789 | 73 | 601237 | 60.011 | ug/l | 96 |
| 20) Methylene Chloride | 5.265 | 84 | 169920 | 53.111 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.771 | 96 | 153170 | 49.977 | ug/l | 93 |
| 22) Diisopropyl ether | 6.659 | 45 | 612749 | 59.384 | ug/l | 97 |
| 23) Vinyl Acetate | 6.594 | 43 | 2775483 | 307.552 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.553 | 63 | 318408 | 53.488 | ug/l | 98 |
| 25) 2-Butanone | 7.471 | 43 | 850355 | 290.579 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.471 | 77 | 249304 | 53.865 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 284580 | 80.651 | ug/l | 97 |
| 28) Bromochloromethane | 7.800 | 49 | 143451 | 50.351 | ug/l | 93 |
| 29) Tetrahydrofuran | 7.830 | 42 | 541901 | 285.049 | ug/l | 99 |
| 30) Chloroform | 7.953 | 83 | 341066 | 57.240 | ug/l | 99 |
| 31) Cyclohexane | 8.241 | 56 | 253936 | 51.134 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 8.153 | 97 | 279470 | 54.153 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.353 | 75 | 214559 | 51.052 | ug/l | 98 |
| 37) Ethyl Acetate | 7.553 | 43 | 307770 | 50.705 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.347 | 117 | 228035 | 49.255 | ug/l | 93 |
| 39) Methylcyclohexane | 9.583 | 83 | 237505 | 52.198 | ug/l | 96 |
| 40) Benzene | 8.588 | 78 | 696316 | 51.262 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087569.D
Acq On : 14 Aug 2025 16:27
Operator : JC\MD
Sample : Q2842-04MS 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 14 19:59:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225MS

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/15/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.765 | 41 | 175869 | 55.413 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.653 | 62 | 283996 | 55.133 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.677 | 43 | 532619 | 56.527 | ug/l | | 97 |
| 44) Trichloroethene | 9.335 | 130 | 321363 | 100.127 | ug/l | | 88 |
| 45) 1,2-Dichloropropane | 9.606 | 63 | 182390 | 52.845 | ug/l | | 94 |
| 46) Dibromomethane | 9.694 | 93 | 137378 | 53.162 | ug/l | | 95 |
| 47) Bromodichloromethane | 9.871 | 83 | 277559 | 53.324 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.665 | 41 | 245497 | 57.875 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.688 | 88 | 69859 | 1075.274 | ug/l | # | 97 |
| 51) 4-Methyl-2-Pentanone | 10.430 | 43 | 1677266 | 281.447 | ug/l | | 98 |
| 52) Toluene | 10.612 | 92 | 435684 | 52.770 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.818 | 75 | 283224 | 53.765 | ug/l | | 95 |
| 54) cis-1,3-Dichloropropene | 10.294 | 75 | 296099 | 54.416 | ug/l | # | 88 |
| 55) 1,1,2-Trichloroethane | 11.000 | 97 | 176388 | 52.770 | ug/l | | 94 |
| 56) Ethyl methacrylate | 10.859 | 69 | 305796 | 54.213 | ug/l | | 93 |
| 57) 1,3-Dichloropropane | 11.147 | 76 | 313150 | 54.186 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 584151 | 213.042 | ug/l | | 99 |
| 59) 2-Hexanone | 11.182 | 43 | 1146887 | 290.068 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.341 | 129 | 195208 | 51.209 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 185145 | 52.680 | ug/l | | 98 |
| 64) Tetrachloroethene | 11.088 | 164 | 120472 | 43.011 | ug/l | | 96 |
| 65) Chlorobenzene | 11.871 | 112 | 472723 | 48.382 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 165027 | 49.672 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.941 | 91 | 844688 | 52.514 | ug/l | | 99 |
| 68) m/p-Xylenes | 12.053 | 106 | 627919 | 104.251 | ug/l | | 93 |
| 69) o-Xylene | 12.376 | 106 | 307518 | 53.449 | ug/l | | 94 |
| 70) Styrene | 12.394 | 104 | 539497 | 55.741 | ug/l | | 98 |
| 71) Bromoform | 12.559 | 173 | 129055 | 48.082 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.676 | 105 | 797605 | 54.677 | ug/l | | 98 |
| 74) N-amyl acetate | 12.500 | 43 | 204124 | 33.679 | ug/l | # | 93 |
| 75) 1,1,2,2-Tetrachloroethane | 12.918 | 83 | 285137 | 51.946 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.976 | 75 | 244697m | 47.080 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 183370 | 48.469 | ug/l | | 91 |
| 78) n-propylbenzene | 13.018 | 91 | 990768 | 53.982 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 13.106 | 91 | 600287 | 53.218 | ug/l | | 96 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 686579 | 55.240 | ug/l | | 96 |
| 81) trans-1,4-Dichloro-2-b... | 12.718 | 75 | 87284 | 45.950 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 625581 | 53.269 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.418 | 119 | 576103 | 55.497 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 715753 | 56.391 | ug/l | | 95 |
| 85) sec-Butylbenzene | 13.594 | 105 | 866181 | 55.396 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 703516 | 56.143 | ug/l | | 97 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 370720 | 49.929 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.794 | 146 | 374267 | 47.195 | ug/l | | 97 |
| 89) n-Butylbenzene | 14.035 | 91 | 697153 | 58.265 | ug/l | | 98 |
| 90) Hexachloroethane | 14.312 | 117 | 126427 | 47.619 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 14.082 | 146 | 361117 | 51.338 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75 | 69760 | 48.406 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 15.370 | 180 | 212082 | 51.328 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.476 | 225 | 79123 | 51.536 | ug/l | | 97 |
| 95) Naphthalene | 15.617 | 128 | 789585 | 53.941 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.817 | 180 | 206242 | 49.760 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087569.D
Acq On : 14 Aug 2025 16:27
Operator : JC\MD
Sample : Q2842-04MS 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 14 19:59:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225MS

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/15/2025
Supervised By :Mahesh Dadoda 08/19/2025

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

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

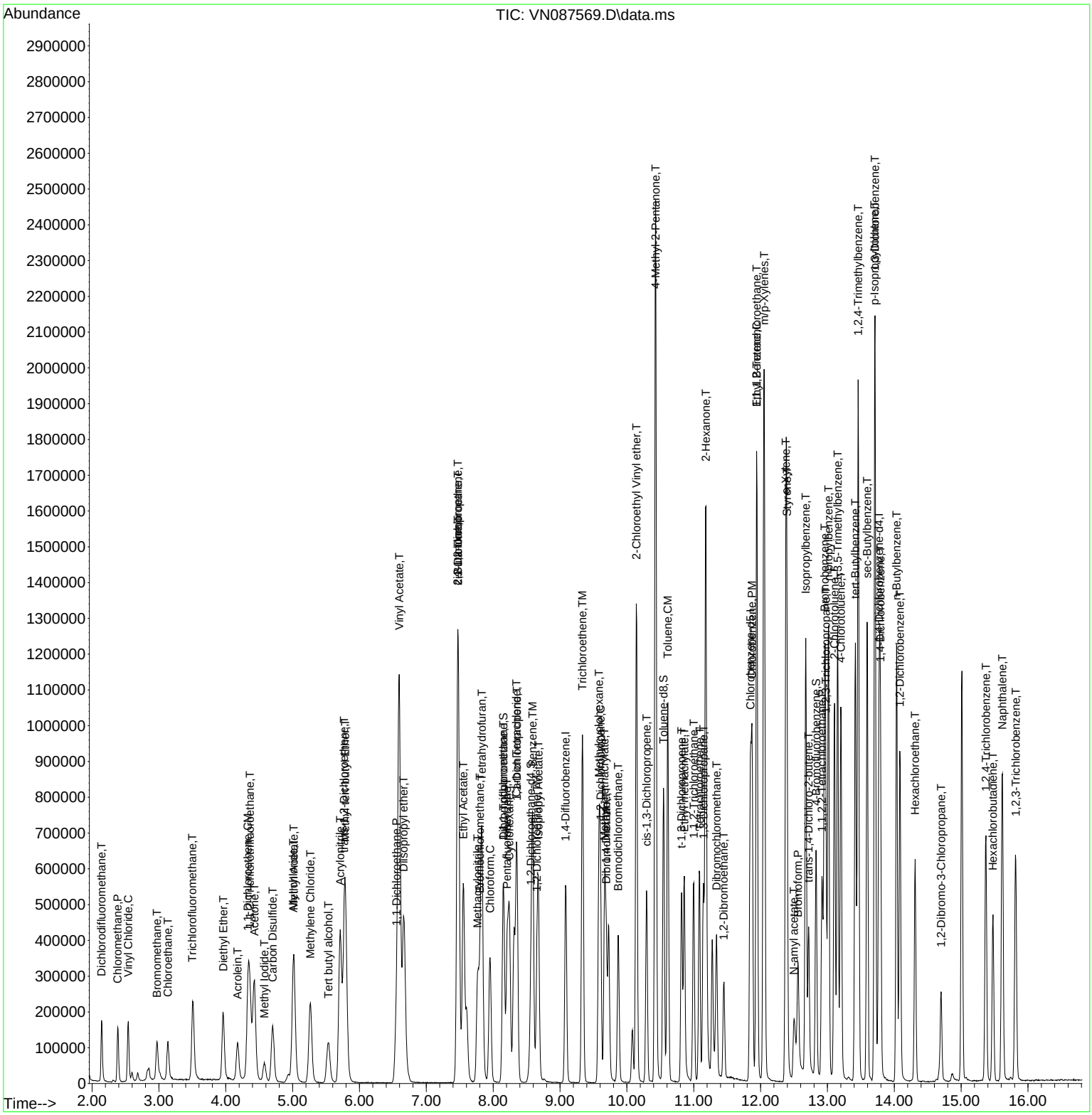
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087569.D
Acq On : 14 Aug 2025 16:27
Operator : JC\MD
Sample : Q2842-04MS 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 14 19:59:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225MS

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/15/2025
Supervised By :Mahesh Dadoda 08/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087570.D
Acq On : 14 Aug 2025 16:49
Operator : JC\MD
Sample : Q2842-05MSD 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 14 20:00:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225MSD

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/15/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 8.212 | 168 | 251785 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 9.082 | 114 | 498703 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.847 | 117 | 460182 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152 | 240017 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.565 | 65 | 233131 | 54.569 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 109.140% | | | |
| 35) Dibromofluoromethane | 8.153 | 113 | 160785 | 46.739 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 93.480% | | | |
| 50) Toluene-d8 | 10.547 | 98 | 591485 | 48.202 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 96.400% | | | |
| 62) 4-Bromofluorobenzene | 12.829 | 95 | 228797 | 50.467 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 100.940% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.142 | 85 | 160380 | 59.972 | ug/l | 95 |
| 3) Chloromethane | 2.383 | 50 | 164845 | 49.018 | ug/l | 95 |
| 4) Vinyl Chloride | 2.542 | 62 | 181197 | 54.217 | ug/l | 94 |
| 5) Bromomethane | 2.971 | 94 | 111058 | 64.170 | ug/l | 100 |
| 6) Chloroethane | 3.130 | 64 | 124775 | 57.248 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.506 | 101 | 269630 | 54.560 | ug/l | 92 |
| 8) Diethyl Ether | 3.965 | 74 | 116948 | 61.006 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.365 | 101 | 146884 | 57.900 | ug/l | 97 |
| 10) Methyl Iodide | 4.583 | 142 | 119433 | 46.239 | ug/l | 95 |
| 11) Tert butyl alcohol | 5.536 | 59 | 241582 | 297.805 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.342 | 96 | 151233 | 52.607 | ug/l | 98 |
| 13) Acrolein | 4.177 | 56 | 121388 | 186.460 | ug/l | 99 |
| 14) Allyl chloride | 5.018 | 41 | 274012 | 52.668 | ug/l | 93 |
| 15) Acrylonitrile | 5.706 | 53 | 596577 | 271.011 | ug/l | 97 |
| 16) Acetone | 4.424 | 43 | 565138 | 282.126 | ug/l | 97 |
| 17) Carbon Disulfide | 4.700 | 76 | 383063 | 44.945 | ug/l | 97 |
| 18) Methyl Acetate | 5.024 | 43 | 323417 | 64.264 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.794 | 73 | 630203 | 59.475 | ug/l | 96 |
| 20) Methylene Chloride | 5.265 | 84 | 180635 | 53.387 | ug/l # | 89 |
| 21) trans-1,2-Dichloroethene | 5.777 | 96 | 165046 | 50.918 | ug/l | 96 |
| 22) Diisopropyl ether | 6.665 | 45 | 653071 | 59.843 | ug/l | 98 |
| 23) Vinyl Acetate | 6.594 | 43 | 2963851 | 310.532 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.559 | 63 | 337459 | 53.599 | ug/l | 99 |
| 25) 2-Butanone | 7.477 | 43 | 880575 | 284.512 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.477 | 77 | 251846 | 51.450 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.471 | 96 | 296951 | 79.572 | ug/l | 98 |
| 28) Bromochloromethane | 7.794 | 49 | 161291 | 53.528 | ug/l | 92 |
| 29) Tetrahydrofuran | 7.830 | 42 | 579208 | 288.074 | ug/l | 99 |
| 30) Chloroform | 7.953 | 83 | 365342 | 57.974 | ug/l | 98 |
| 31) Cyclohexane | 8.241 | 56 | 269452 | 51.302 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 8.153 | 97 | 301283 | 55.199 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.359 | 75 | 232570 | 51.172 | ug/l | 98 |
| 37) Ethyl Acetate | 7.547 | 43 | 344525 | 52.488 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.347 | 117 | 240818 | 48.100 | ug/l | 96 |
| 39) Methylcyclohexane | 9.582 | 83 | 251368 | 51.086 | ug/l | 95 |
| 40) Benzene | 8.588 | 78 | 748859 | 50.980 | ug/l | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087570.D
Acq On : 14 Aug 2025 16:49
Operator : JC\MD
Sample : Q2842-05MSD 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 14 20:00:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225MSD

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/15/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.765 | 41 | 188160 | 54.823 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.659 | 62 | 295609 | 53.067 | ug/l | | 97 |
| 43) Isopropyl Acetate | 8.677 | 43 | 557773 | 54.740 | ug/l | | 99 |
| 44) Trichloroethene | 9.335 | 130 | 330475 | 95.214 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.606 | 63 | 191212 | 51.231 | ug/l | | 98 |
| 46) Dibromomethane | 9.694 | 93 | 141089 | 50.488 | ug/l | | 95 |
| 47) Bromodichloromethane | 9.871 | 83 | 288056 | 51.174 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.665 | 41 | 268246 | 58.477 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.682 | 88 | 74858 | 1065.478 | ug/l | # | 100 |
| 51) 4-Methyl-2-Pentanone | 10.429 | 43 | 1774583 | 275.360 | ug/l | | 97 |
| 52) Toluene | 10.612 | 92 | 460377 | 51.563 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.818 | 75 | 308221 | 54.105 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 10.294 | 75 | 308333 | 52.399 | ug/l | # | 87 |
| 55) 1,1,2-Trichloroethane | 11.000 | 97 | 190288 | 52.643 | ug/l | | 92 |
| 56) Ethyl methacrylate | 10.859 | 69 | 326690 | 53.587 | ug/l | # | 95 |
| 57) 1,3-Dichloropropane | 11.147 | 76 | 329546 | 52.730 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 10.141 | 63 | 412625 | 139.157 | ug/l | | 99 |
| 59) 2-Hexanone | 11.182 | 43 | 1237547 | 289.435 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.341 | 129 | 205718 | 49.903 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.447 | 107 | 193708 | 50.967 | ug/l | | 98 |
| 64) Tetrachloroethene | 11.082 | 164 | 127664 | 43.104 | ug/l | | 94 |
| 65) Chlorobenzene | 11.871 | 112 | 500916 | 48.485 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.941 | 131 | 176284 | 50.180 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.941 | 91 | 898707 | 52.840 | ug/l | | 99 |
| 68) m/p-Xylenes | 12.053 | 106 | 662341 | 103.996 | ug/l | | 93 |
| 69) o-Xylene | 12.376 | 106 | 328068 | 53.926 | ug/l | | 96 |
| 70) Styrene | 12.394 | 104 | 567805 | 55.481 | ug/l | | 98 |
| 71) Bromoform | 12.559 | 173 | 133281 | 46.961 | ug/l | # | 95 |
| 73) Isopropylbenzene | 12.676 | 105 | 839673 | 55.585 | ug/l | | 99 |
| 74) N-amyl acetate | 12.500 | 43 | 234757 | 37.404 | ug/l | # | 94 |
| 75) 1,1,2,2-Tetrachloroethane | 12.918 | 83 | 304955 | 53.650 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.970 | 75 | 297389m | 55.254 | ug/l | | |
| 77) Bromobenzene | 12.959 | 156 | 197712 | 50.466 | ug/l | | 94 |
| 78) n-propylbenzene | 13.018 | 91 | 1061543 | 55.853 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 13.106 | 91 | 637513 | 54.578 | ug/l | | 96 |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 725164 | 56.342 | ug/l | | 96 |
| 81) trans-1,4-Dichloro-2-b... | 12.718 | 75 | 93157 | 47.359 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 13.200 | 91 | 661408 | 54.387 | ug/l | | 97 |
| 83) tert-Butylbenzene | 13.418 | 119 | 601617 | 55.966 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 747848 | 56.897 | ug/l | | 96 |
| 85) sec-Butylbenzene | 13.594 | 105 | 905664 | 55.933 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.706 | 119 | 748208 | 57.660 | ug/l | | 97 |
| 87) 1,3-Dichlorobenzene | 13.712 | 146 | 393523 | 51.181 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.788 | 146 | 395731 | 48.189 | ug/l | | 98 |
| 89) n-Butylbenzene | 14.035 | 91 | 730169 | 58.929 | ug/l | | 98 |
| 90) Hexachloroethane | 14.312 | 117 | 136983 | 49.824 | ug/l | | 91 |
| 91) 1,2-Dichlorobenzene | 14.088 | 146 | 372655 | 51.160 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.700 | 75 | 74799 | 50.121 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.370 | 180 | 220758 | 51.594 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.476 | 225 | 77907 | 49.002 | ug/l | | 98 |
| 95) Naphthalene | 15.617 | 128 | 847533 | 55.913 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.817 | 180 | 217612 | 50.701 | ug/l | | 98 |

Sample Results: **VN087570.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087570.D
Acq On : 14 Aug 2025 16:49
Operator : JC\MD
Sample : Q2842-05MSD 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 14 20:00:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225MSD

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/15/2025
Supervised By :Mahesh Dadoda 08/19/2025

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

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

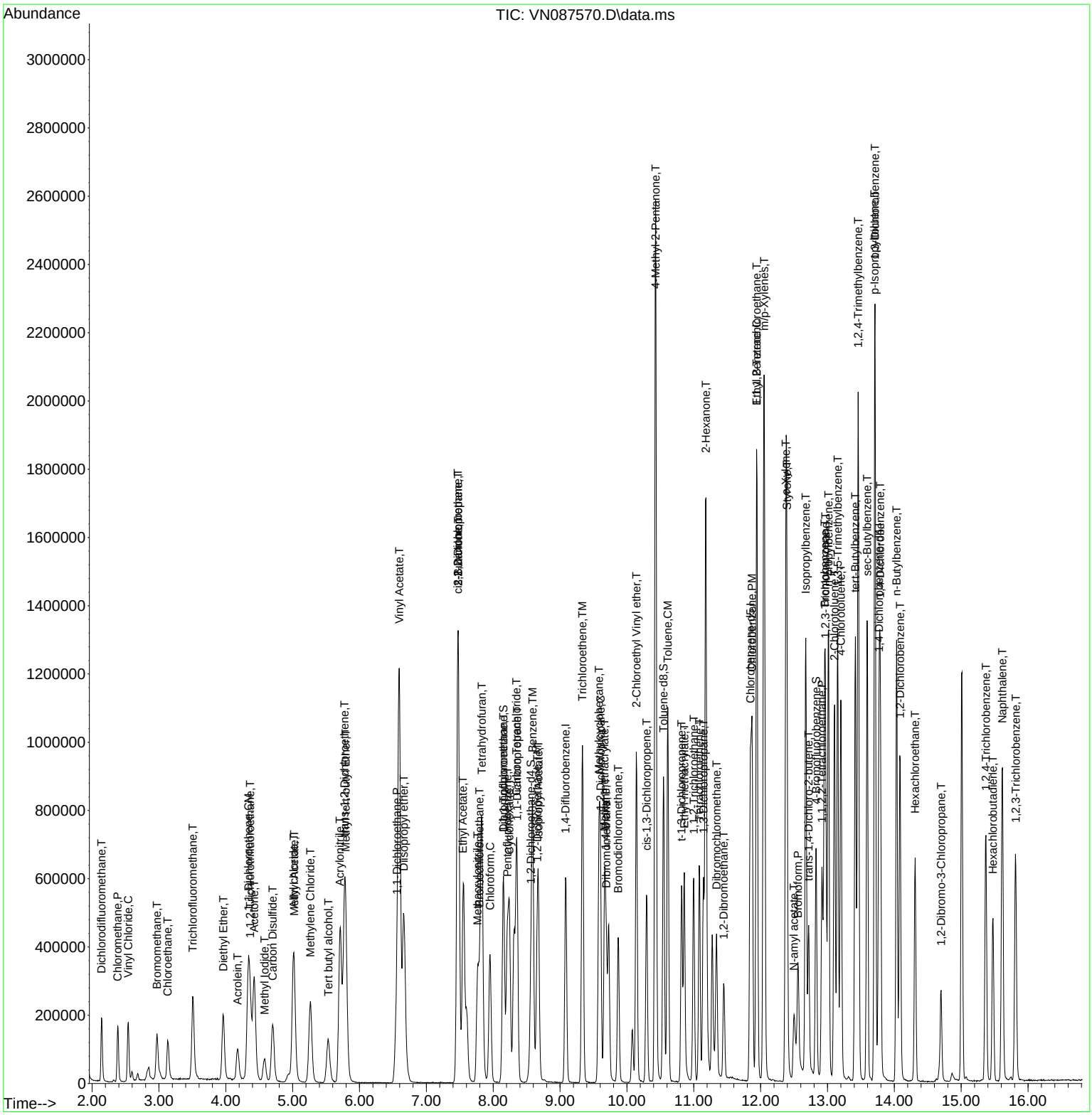
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081425\
Data File : VN087570.D
Acq On : 14 Aug 2025 16:49
Operator : JC\MD
Sample : Q2842-05MSD 100X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 14 20:00:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_N
**ClientSampleId :**
MW-17B-55.5-081225MSD

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/15/2025
Supervised By :Mahesh Dadoda 08/19/2025



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

# Manual Integration Report

| Sequence: | VN071625 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC001 | VN087328.D | 1,2,3-Trichloropropane | MMDadoda | 7/17/2025 8:19:52 AM | Sam | 7/17/2025 8:24:59 AM | Peak Integrated by Software |
| VSTDICC001 | VN087328.D | 1,4-Dichlorobenzene | MMDadoda | 7/17/2025 8:19:52 AM | Sam | 7/17/2025 8:24:59 AM | Peak Integrated by Software |
| VSTDICC001 | VN087328.D | Acetone | MMDadoda | 7/17/2025 8:19:52 AM | Sam | 7/17/2025 8:24:59 AM | Peak Integrated by Software |
| VSTDICC001 | VN087328.D | Allyl chloride | MMDadoda | 7/17/2025 8:19:52 AM | Sam | 7/17/2025 8:24:59 AM | Peak Integrated by Software |
| VSTDICC001 | VN087328.D | Methyl tert-butyl Ether | MMDadoda | 7/17/2025 8:19:52 AM | Sam | 7/17/2025 8:24:59 AM | Peak Integrated by Software |
| VSTDICC001 | VN087328.D | N-amyl acetate | MMDadoda | 7/17/2025 8:19:52 AM | Sam | 7/17/2025 8:24:59 AM | Peak Integrated by Software |
| VSTDICC005 | VN087329.D | 1,2,3-Trichloropropane | MMDadoda | 7/17/2025 8:19:53 AM | Sam | 7/17/2025 8:24:55 AM | Peak Integrated by Software |
| VSTDICC005 | VN087329.D | Methyl Iodide | MMDadoda | 7/17/2025 8:19:53 AM | Sam | 7/17/2025 8:24:55 AM | Peak Integrated by Software |
| VSTDICC005 | VN087329.D | N-amyl acetate | MMDadoda | 7/17/2025 8:19:53 AM | Sam | 7/17/2025 8:24:55 AM | Peak Integrated by Software |
| VSTDICC020 | VN087330.D | 1,2,3-Trichloropropane | MMDadoda | 7/17/2025 8:19:54 AM | Sam | 7/17/2025 8:24:56 AM | Peak Integrated by Software |
| VSTDICC020 | VN087330.D | N-amyl acetate | MMDadoda | 7/17/2025 8:19:54 AM | Sam | 7/17/2025 8:24:56 AM | Peak Integrated by Software |
| VSTDICCC050 | VN087331.D | 1,2,3-Trichloropropane | MMDadoda | 7/17/2025 8:19:56 AM | Sam | 7/17/2025 8:25:01 AM | Peak Integrated by Software |
| VSTDICCC050 | VN087331.D | N-amyl acetate | MMDadoda | 7/17/2025 8:19:56 AM | Sam | 7/17/2025 8:25:01 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VN071625 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC100 | VN087332.D | 1,2,3-Trichloropropane | MMDadoda | 7/17/2025 8:19:58 AM | Sam | 7/17/2025 8:25:00 AM | Peak Integrated by Software |
| VSTDICC150 | VN087333.D | 1,2,3-Trichloropropane | MMDadoda | 7/17/2025 8:19:59 AM | Sam | 7/17/2025 8:25:02 AM | Peak Integrated by Software |
| VSTDICV050 | VN087335.D | 1,2,3-Trichloropropane | MMDadoda | 7/17/2025 8:20:01 AM | Sam | 7/17/2025 8:25:03 AM | Peak Integrated by Software |
| VSTDICV050 | VN087335.D | N-amyl acetate | MMDadoda | 7/17/2025 8:20:01 AM | Sam | 7/17/2025 8:25:03 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VN081425 | Instrument | MSVOA_n |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VN087552.D | 1,2,3-Trichloropropane | JOHN | 8/14/2025 4:35:55 PM | MMDadoda | 8/19/2025 1:44:04 AM | Peak Integrated by Software |
| VN0814WBS01 | VN087555.D | 1,2,3-Trichloropropane | JOHN | 8/18/2025 8:11:28 AM | MMDadoda | 8/19/2025 1:44:07 AM | Peak Integrated by Software |
| VN0814WBS01 | VN087555.D | N-amyl acetate | JOHN | 8/18/2025 8:11:28 AM | MMDadoda | 8/19/2025 1:44:07 AM | Peak Integrated by Software |
| Q2842-04MS | VN087569.D | 1,2,3-Trichloropropane | JOHN | 8/15/2025 8:40:03 AM | MMDadoda | 8/19/2025 1:44:16 AM | Peak Integrated by Software |
| Q2842-05MSD | VN087570.D | 1,2,3-Trichloropropane | JOHN | 8/15/2025 8:40:08 AM | MMDadoda | 8/19/2025 1:44:19 AM | Peak Integrated by Software |
| VSTDCCC050 | VN087571.D | 1,2,3-Trichloropropane | JOHN | 8/15/2025 8:40:12 AM | MMDadoda | 8/19/2025 1:44:23 AM | Peak Integrated by Software |

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Fax : 908 789 8922

**Instrument ID: MSVOA_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN071625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 7/17/2025 8:20:05 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 7/17/2025 8:25:10 AM | | |
| SubDirectory | VN071625 | HP Acquire Method | | HP Processing Method | 82N071625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134794 |
| Initial Calibration Stds | VP134795,VP134796,VP134797,VP134798,VP134799,VP134800 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP134801 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN087327.D | 16 Jul 2025 16:10 | JC\MD | Ok |
| 2 | VSTDICC001 | VN087328.D | 16 Jul 2025 17:05 | JC\MD | Ok,M |
| 3 | VSTDICC005 | VN087329.D | 16 Jul 2025 17:27 | JC\MD | Ok,M |
| 4 | VSTDICC020 | VN087330.D | 16 Jul 2025 17:49 | JC\MD | Ok,M |
| 5 | VSTDICCC050 | VN087331.D | 16 Jul 2025 18:11 | JC\MD | Ok,M |
| 6 | VSTDICC100 | VN087332.D | 16 Jul 2025 18:32 | JC\MD | Ok,M |
| 7 | VSTDICC150 | VN087333.D | 16 Jul 2025 18:54 | JC\MD | Ok,M |
| 8 | IBLK | VN087334.D | 16 Jul 2025 19:16 | JC\MD | Ok |
| 9 | VSTDICV050 | VN087335.D | 16 Jul 2025 19:59 | 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_N**

## Daily Analysis Runlog For Sequence/QCBatch ID # VN081425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 8/15/2025 8:42:25 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 8/19/2025 1:44:35 AM | | |
| SubDirectory | VN081425 | HP Acquire Method | | HP Processing Method | 82N071625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135139 |
| Initial Calibration Stds | |
| CCC | VP135140,VP135141 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VN087551.D | 14 Aug 2025 09:01 | JC\MD | Ok |
| 2 | VSTDCCC050 | VN087552.D | 14 Aug 2025 09:34 | JC\MD | Ok,M |
| 3 | VN0814MBL01 | VN087553.D | 14 Aug 2025 10:10 | JC\MD | Ok |
| 4 | VN0814WBL01 | VN087554.D | 14 Aug 2025 10:32 | JC\MD | Ok |
| 5 | VN0814WBS01 | VN087555.D | 14 Aug 2025 11:07 | JC\MD | Ok,M |
| 6 | VN0814WBSD01 | VN087556.D | 14 Aug 2025 11:41 | JC\MD | Ok,M |
| 7 | Q2832-02 | VN087557.D | 14 Aug 2025 12:03 | JC\MD | Ok |
| 8 | Q2832-04 | VN087558.D | 14 Aug 2025 12:24 | JC\MD | Ok,M |
| 9 | Q2836-01 | VN087559.D | 14 Aug 2025 12:46 | JC\MD | Ok |
| 10 | Q2836-05 | VN087560.D | 14 Aug 2025 13:08 | JC\MD | Ok |
| 11 | Q2836-09 | VN087561.D | 14 Aug 2025 13:30 | JC\MD | Ok |
| 12 | Q2836-13 | VN087562.D | 14 Aug 2025 13:52 | JC\MD | Ok |
| 13 | Q2838-04 | VN087563.D | 14 Aug 2025 14:14 | JC\MD | Ok |
| 14 | Q2838-08 | VN087564.D | 14 Aug 2025 14:36 | JC\MD | Ok |
| 15 | Q2842-08 | VN087565.D | 14 Aug 2025 14:58 | JC\MD | Ok |
| 16 | Q2842-01 | VN087566.D | 14 Aug 2025 15:20 | JC\MD | Ok |
| 17 | Q2842-02 | VN087567.D | 14 Aug 2025 15:42 | JC\MD | Ok |
| 18 | Q2842-03 | VN087568.D | 14 Aug 2025 16:04 | JC\MD | Ok |
| 19 | Q2842-04MS | VN087569.D | 14 Aug 2025 16:27 | JC\MD | Ok,M |
| 20 | Q2842-05MSD | VN087570.D | 14 Aug 2025 16:49 | JC\MD | Ok,M |
| 21 | VSTDCCC050 | VN087571.D | 14 Aug 2025 17:11 | 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_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN071625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 7/17/2025 8:20:05 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 7/17/2025 8:25:10 AM | | |
| SubDirectory | VN071625 | HP Acquire Method | | HP Processing Method | 82N071625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP134794 |
| Initial Calibration Stds | VP134795,VP134796,VP134797,VP134798,VP134799,VP134800 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP134801 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VN087327.D | 16 Jul 2025 16:10 | | JC\MD | Ok |
| 2 | VSTDICC001 | VSTDICC001 | VN087328.D | 16 Jul 2025 17:05 | | JC\MD | Ok,M |
| 3 | VSTDICC005 | VSTDICC005 | VN087329.D | 16 Jul 2025 17:27 | % d fail for com.#10 in 5 ppb | JC\MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VN087330.D | 16 Jul 2025 17:49 | LR- 10,20 | JC\MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VN087331.D | 16 Jul 2025 18:11 | QR- 56 | JC\MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VN087332.D | 16 Jul 2025 18:32 | | JC\MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VN087333.D | 16 Jul 2025 18:54 | | JC\MD | Ok,M |
| 8 | IBLK | IBLK | VN087334.D | 16 Jul 2025 19:16 | | JC\MD | Ok |
| 9 | VSTDICV050 | ICVVN071625 | VN087335.D | 16 Jul 2025 19:59 | | 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_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN081425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 8/15/2025 8:42:25 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 8/19/2025 1:44:35 AM | | |
| SubDirectory | VN081425 | HP Acquire Method | | HP Processing Method | 82N071625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135139 |
| Initial Calibration Stds | |
| CCC | VP135140,VP135141 |
| 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 | VN087551.D | 14 Aug 2025 09:01 | | JC\MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VN087552.D | 14 Aug 2025 09:34 | pH#Lot#V12668 | JC\MD | Ok,M |
| 3 | VN0814MBL01 | VN0814MBL01 | VN087553.D | 14 Aug 2025 10:10 | | JC\MD | Ok |
| 4 | VN0814WBL01 | VN0814WBL01 | VN087554.D | 14 Aug 2025 10:32 | | JC\MD | Ok |
| 5 | VN0814WBS01 | VN0814WBS01 | VN087555.D | 14 Aug 2025 11:07 | | JC\MD | Ok,M |
| 6 | VN0814WBSD01 | VN0814WBSD01 | VN087556.D | 14 Aug 2025 11:41 | | JC\MD | Ok,M |
| 7 | Q2832-02 | TG-S01 | VN087557.D | 14 Aug 2025 12:03 | vial B pH#5.0 | JC\MD | Ok |
| 8 | Q2832-04 | TG-S02 | VN087558.D | 14 Aug 2025 12:24 | vial B pH#5.0 | JC\MD | Ok,M |
| 9 | Q2836-01 | WC-A2-15-G | VN087559.D | 14 Aug 2025 12:46 | vial B pH#5.0 | JC\MD | Ok |
| 10 | Q2836-05 | WC-A2-16-G | VN087560.D | 14 Aug 2025 13:08 | vial B pH#5.0 | JC\MD | Ok |
| 11 | Q2836-09 | WC-A2-17-G | VN087561.D | 14 Aug 2025 13:30 | vial B pH#5.0 | JC\MD | Ok |
| 12 | Q2836-13 | WC-A5-02-G | VN087562.D | 14 Aug 2025 13:52 | vial B pH#5.0 | JC\MD | Ok |
| 13 | Q2838-04 | TP-11 | VN087563.D | 14 Aug 2025 14:14 | vial B pH#5.0 | JC\MD | Ok |
| 14 | Q2838-08 | TP-10 | VN087564.D | 14 Aug 2025 14:36 | vial B pH#5.0 | JC\MD | Ok |
| 15 | Q2842-08 | TB01-081225 | VN087565.D | 14 Aug 2025 14:58 | vial A pH<2 TB | JC\MD | Ok |
| 16 | Q2842-01 | RMW-03B-90.4-081225 | VN087566.D | 14 Aug 2025 15:20 | vial A pH<2 | JC\MD | Ok |
| 17 | Q2842-02 | RMW-02B-66.3-081225 | VN087567.D | 14 Aug 2025 15:42 | vial A pH<2 | JC\MD | Ok |
| 18 | Q2842-03 | MW-17B-55.5-081225 | VN087568.D | 14 Aug 2025 16:04 | vial A pH<2 | JC\MD | Ok |

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

**Instrument ID:** MSVOA_N

## Daily Analysis Runlog For Sequence/QCBatch ID # VN081425

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 8/15/2025 8:42:25 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 8/19/2025 1:44:35 AM | | |
| SubDirectory | VN081425 | HP Acquire Method | | HP Processing Method | 82N071625W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135139 |
| Initial Calibration Stds | |
| CCC | VP135140,VP135141 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2842-04MS | MW-17B-55.5-081225M | VN087569.D | 14 Aug 2025 16:27 | vial A pH<2 | JC\MD | Ok,M |
| 20 | Q2842-05MSD | MW-17B-55.5-081225M | VN087570.D | 14 Aug 2025 16:49 | vial A pH<2 | JC\MD | Ok,M |
| 21 | VSTDCCC050 | VSTDCCC050EC | VN087571.D | 14 Aug 2025 17:11 | | JC\MD | Ok,M |

M : Manual Integration

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2842 | **OrderDate:** | 8/13/2025 8:34:00 AM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger STC PTC Site D3868221 |
| **Contact:** | John Ynfante | **Location:** | J23,J32,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2842-01** | **RMW-03B-90.4-081225** | **Water** | | | **08/12/25** | | | **08/12/25** |
| | | | VOCMS Group3 | 8260-Low | | | 08/14/25 | |
| **Q2842-02** | **RMW-02B-66.3-081225** | **Water** | | | **08/12/25** | | | **08/12/25** |
| | | | VOCMS Group3 | 8260-Low | | | 08/14/25 | |
| **Q2842-03** | **MW-17B-55.5-081225** | **Water** | | | **08/12/25** | | | **08/12/25** |
| | | | VOCMS Group3 | 8260-Low | | | 08/14/25 | |
| **Q2842-08** | **TB01-081225** | **Water** | | | **08/12/25** | | | **08/12/25** |
| | | | VOCMS Group3 | 8260-Low | | | 08/14/25 | |