

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q2878

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

| Sample ID                              | Client ID        | Matrix | Parameter              | Concentration | C  | MDL   | RDL  | Units |
|----------------------------------------|------------------|--------|------------------------|---------------|----|-------|------|-------|
| <b>Client ID: MW-18B-57.5-081325</b>   |                  |        |                        |               |    |       |      |       |
| Q2878-01                               | MW-18B-57.5-0813 | Water  | Vinyl Chloride         | 55.1          |    | 0.26  | 1.00 | ug/L  |
| Q2878-01                               | MW-18B-57.5-0813 | Water  | 1,1-Dichloroethene     | 8.60          |    | 0.23  | 1.00 | ug/L  |
| Q2878-01                               | MW-18B-57.5-0813 | Water  | 1,1-Dichloroethane     | 8.00          |    | 0.23  | 1.00 | ug/L  |
| Q2878-01                               | MW-18B-57.5-0813 | Water  | cis-1,2-Dichloroethene | 900           | E  | 0.19  | 1.00 | ug/L  |
| Q2878-01                               | MW-18B-57.5-0813 | Water  | Benzene                | 1.60          |    | 0.15  | 1.00 | ug/L  |
| Q2878-01                               | MW-18B-57.5-0813 | Water  | 1,2-Dichloroethane     | 1.60          |    | 0.22  | 1.00 | ug/L  |
| Q2878-01                               | MW-18B-57.5-0813 | Water  | Trichloroethene        | 160           | E  | 0.090 | 1.00 | ug/L  |
| Q2878-01                               | MW-18B-57.5-0813 | Water  | Tetrachloroethene      | 0.95          | J  | 0.23  | 1.00 | ug/L  |
| Total Voc :                            |                  |        |                        | 1140          |    |       |      |       |
| Total Concentration:                   |                  |        |                        | 1140          |    |       |      |       |
| <b>Client ID: MW-18B-57.5-081325DL</b> |                  |        |                        |               |    |       |      |       |
| Q2878-01DL                             | MW-18B-57.5-0813 | Water  | Vinyl Chloride         | 50.0          | D  | 2.60  | 10.0 | ug/L  |
| Q2878-01DL                             | MW-18B-57.5-0813 | Water  | 1,1-Dichloroethene     | 7.60          | JD | 2.30  | 10.0 | ug/L  |
| Q2878-01DL                             | MW-18B-57.5-0813 | Water  | 1,1-Dichloroethane     | 6.80          | JD | 2.30  | 10.0 | ug/L  |
| Q2878-01DL                             | MW-18B-57.5-0813 | Water  | cis-1,2-Dichloroethene | 810           | D  | 1.90  | 10.0 | ug/L  |
| Q2878-01DL                             | MW-18B-57.5-0813 | Water  | Benzene                | 6.30          | JD | 1.50  | 10.0 | ug/L  |
| Q2878-01DL                             | MW-18B-57.5-0813 | Water  | Trichloroethene        | 150           | D  | 0.93  | 10.0 | ug/L  |
| Total Voc :                            |                  |        |                        | 1030          |    |       |      |       |
| Total Concentration:                   |                  |        |                        | 1030          |    |       |      |       |
| <b>Client ID: MW-11B-37.5-081425</b>   |                  |        |                        |               |    |       |      |       |
| Q2878-05                               | MW-11B-37.5-0814 | Water  | 1,1-Dichloroethene     | 61.5          |    | 11.5  | 50.0 | ug/L  |
| Q2878-05                               | MW-11B-37.5-0814 | Water  | 1,1-Dichloroethane     | 61.4          |    | 11.5  | 50.0 | ug/L  |
| Q2878-05                               | MW-11B-37.5-0814 | Water  | cis-1,2-Dichloroethene | 2200          |    | 9.50  | 50.0 | ug/L  |
| Q2878-05                               | MW-11B-37.5-0814 | Water  | Trichloroethene        | 4600          |    | 4.70  | 50.0 | ug/L  |
| Total Voc :                            |                  |        |                        | 6920          |    |       |      |       |
| Total Concentration:                   |                  |        |                        | 6920          |    |       |      |       |



# SAMPLE DATA

## Report of Analysis

|                    |                                           |                 |              |
|--------------------|-------------------------------------------|-----------------|--------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/13/25     |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/14/25     |
| Client Sample ID:  | MW-18B-57.5-081325                        | SDG No.:        | Q2878        |
| Lab Sample ID:     | Q2878-01                                  | 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:         | DB-624UI ID : 0.18                        | Level :         | LOW          |
| Prep Method :      |                                           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VX047450.D        | 1         | 08/20/25 17:57 | VX082025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|---------------------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |                     |            |         |
| 75-01-4                   | Vinyl Chloride         | 55.1   |           | 0.26                | 1.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 8.60   |           | 0.23                | 1.00       | ug/L    |
| 75-34-3                   | 1,1-Dichloroethane     | 8.00   |           | 0.23                | 1.00       | ug/L    |
| 156-59-2                  | cis-1,2-Dichloroethene | 900    | E         | 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                | 1.60   |           | 0.15                | 1.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 1.60   |           | 0.22                | 1.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 160    | E         | 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      | 0.95   | J         | 0.23                | 1.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |                     |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 54.3   |           | 70 (74) - 130 (125) | 109%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 48.2   |           | 70 (75) - 130 (124) | 96%        | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 49.0   |           | 70 (86) - 130 (113) | 98%        | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 55.8   |           | 70 (77) - 130 (121) | 112%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |                     |            |         |
| 363-72-4                  | Pentafluorobenzene     | 205000 | 5.568     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 416000 | 6.769     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 411000 | 10.055    |                     |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 207000 | 12.018    |                     |            |         |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                            |                 |                              |
|--------------------|--------------------------------------------|-----------------|------------------------------|
| Client:            | JACOBS Engineering Group, Inc.             | Date Collected: | 08/13/25                     |
| Project:           | Former Schlumberger STC PTC Site D3868221  | Date Received:  | 08/14/25                     |
| Client Sample ID:  | MW-18B-57.5-081325DL                       | SDG No.:        | Q2878                        |
| Lab Sample ID:     | Q2878-01DL                                 | 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:         | DB-624UI                      ID :    0.18 | Level :         | LOW                          |
| Prep Method :      |                                            |                 |                              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VX047451.D        | 10        | 08/20/25 18:18 | VX082025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|---------------------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |                     |            |         |
| 75-01-4                   | Vinyl Chloride         | 50.0   | D         | 2.60                | 10.0       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 7.60   | JD        | 2.30                | 10.0       | ug/L    |
| 75-34-3                   | 1,1-Dichloroethane     | 6.80   | JD        | 2.30                | 10.0       | ug/L    |
| 156-59-2                  | cis-1,2-Dichloroethene | 810    | D         | 1.90                | 10.0       | ug/L    |
| 71-55-6                   | 1,1,1-Trichloroethane  | 2.00   | UD        | 2.00                | 10.0       | ug/L    |
| 71-43-2                   | Benzene                | 6.30   | JD        | 1.50                | 10.0       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 2.20   | UD        | 2.20                | 10.0       | ug/L    |
| 79-01-6                   | Trichloroethene        | 150    | D         | 0.93                | 10.0       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane  | 2.10   | UD        | 2.10                | 10.0       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 2.30   | UD        | 2.30                | 10.0       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |                     |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 55.7   |           | 70 (74) - 130 (125) | 111%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 49.9   |           | 70 (75) - 130 (124) | 100%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 50.1   |           | 70 (86) - 130 (113) | 100%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 57.1   |           | 70 (77) - 130 (121) | 114%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |                     |            |         |
| 363-72-4                  | Pentafluorobenzene     | 216000 | 5.568     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 432000 | 6.769     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 428000 | 10.055    |                     |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 219000 | 12.018    |                     |            |         |

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## Report of Analysis

|                    |                                            |                 |                              |
|--------------------|--------------------------------------------|-----------------|------------------------------|
| Client:            | JACOBS Engineering Group, Inc.             | Date Collected: | 08/14/25                     |
| Project:           | Former Schlumberger STC PTC Site D3868221  | Date Received:  | 08/14/25                     |
| Client Sample ID:  | MW-11B-37.5-081425                         | SDG No.:        | Q2878                        |
| Lab Sample ID:     | Q2878-05                                   | 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:         | DB-624UI                      ID :    0.18 | Level :         | LOW                          |
| Prep Method :      |                                            |                 |                              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VX047452.D        | 50        | 08/20/25 18:40 | VX082025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|---------------------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |                     |            |         |
| 75-01-4                   | Vinyl Chloride         | 13.0   | U         | 13.0                | 50.0       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 61.5   |           | 11.5                | 50.0       | ug/L    |
| 75-34-3                   | 1,1-Dichloroethane     | 61.4   |           | 11.5                | 50.0       | ug/L    |
| 156-59-2                  | cis-1,2-Dichloroethene | 2200   |           | 9.50                | 50.0       | ug/L    |
| 71-55-6                   | 1,1,1-Trichloroethane  | 10.0   | U         | 10.0                | 50.0       | ug/L    |
| 71-43-2                   | Benzene                | 7.50   | U         | 7.50                | 50.0       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 11.0   | U         | 11.0                | 50.0       | ug/L    |
| 79-01-6                   | Trichloroethene        | 4600   |           | 4.70                | 50.0       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane  | 10.5   | U         | 10.5                | 50.0       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 11.5   | U         | 11.5                | 50.0       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |                     |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 56.3   |           | 70 (74) - 130 (125) | 113%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 50.5   |           | 70 (75) - 130 (124) | 101%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 49.4   |           | 70 (86) - 130 (113) | 99%        | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 56.8   |           | 70 (77) - 130 (121) | 114%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |                     |            |         |
| 363-72-4                  | Pentafluorobenzene     | 233000 | 5.568     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 475000 | 6.775     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 465000 | 10.055    |                     |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 243000 | 12.018    |                     |            |         |

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A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                           |                 |              |
|--------------------|-------------------------------------------|-----------------|--------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/14/25     |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/14/25     |
| Client Sample ID:  | TB01-081425                               | SDG No.:        | Q2878        |
| Lab Sample ID:     | Q2878-06                                  | 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:         | DB-624UI ID : 0.18                        | Level :         | LOW          |
| Prep Method :      |                                           |                 |              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VX047441.D        | 1         | 08/20/25 14:42 | VX082025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|---------------------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |                     |            |         |
| 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    |
| <b>SURROGATES</b>         |                        |        |           |                     |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 57.8   |           | 70 (74) - 130 (125) | 116%       | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 50.4   |           | 70 (75) - 130 (124) | 101%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 50.5   |           | 70 (86) - 130 (113) | 101%       | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 55.1   |           | 70 (77) - 130 (121) | 110%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |                     |            |         |
| 363-72-4                  | Pentafluorobenzene     | 299000 | 5.568     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 610000 | 6.775     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 600000 | 10.055    |                     |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 295000 | 12.018    |                     |            |         |

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



# QC SUMMARY

## Surrogate Summary

SDG No.: **Q2878**

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

Analytical Method: **SW8260-Low**

| Lab Sample ID | Client ID            | Parameter             | Spike | Result | Recovery (%) | Qual | Limits (%) |           |
|---------------|----------------------|-----------------------|-------|--------|--------------|------|------------|-----------|
|               |                      |                       |       |        |              |      | Low        | High      |
| Q2878-01      | MW-18B-57.5-081325   | 1,2-Dichloroethane-d4 | 50    | 54.3   | 109          |      | 70 (74)    | 130 (125) |
|               |                      | Dibromofluoromethane  | 50    | 48.2   | 96           |      | 70 (75)    | 130 (124) |
|               |                      | Toluene-d8            | 50    | 49.0   | 98           |      | 70 (86)    | 130 (113) |
|               |                      | 4-Bromofluorobenzene  | 50    | 55.8   | 112          |      | 70 (77)    | 130 (121) |
| Q2878-01DL    | MW-18B-57.5-081325DL | 1,2-Dichloroethane-d4 | 50    | 55.7   | 111          |      | 70 (74)    | 130 (125) |
|               |                      | Dibromofluoromethane  | 50    | 49.9   | 100          |      | 70 (75)    | 130 (124) |
|               |                      | Toluene-d8            | 50    | 50.1   | 100          |      | 70 (86)    | 130 (113) |
|               |                      | 4-Bromofluorobenzene  | 50    | 57.1   | 114          |      | 70 (77)    | 130 (121) |
| Q2878-05      | MW-11B-37.5-081425   | 1,2-Dichloroethane-d4 | 50    | 56.3   | 113          |      | 70 (74)    | 130 (125) |
|               |                      | Dibromofluoromethane  | 50    | 50.5   | 101          |      | 70 (75)    | 130 (124) |
|               |                      | Toluene-d8            | 50    | 49.4   | 99           |      | 70 (86)    | 130 (113) |
|               |                      | 4-Bromofluorobenzene  | 50    | 56.8   | 114          |      | 70 (77)    | 130 (121) |
| Q2878-06      | TB01-081425          | 1,2-Dichloroethane-d4 | 50    | 57.8   | 116          |      | 70 (74)    | 130 (125) |
|               |                      | Dibromofluoromethane  | 50    | 50.4   | 101          |      | 70 (75)    | 130 (124) |
|               |                      | Toluene-d8            | 50    | 50.5   | 101          |      | 70 (86)    | 130 (113) |
|               |                      | 4-Bromofluorobenzene  | 50    | 55.1   | 110          |      | 70 (77)    | 130 (121) |
| VX0820WBL01   | VX0820WBL01          | 1,2-Dichloroethane-d4 | 50    | 57.9   | 116          |      | 70 (74)    | 130 (125) |
|               |                      | Dibromofluoromethane  | 50    | 51.3   | 103          |      | 70 (75)    | 130 (124) |
|               |                      | Toluene-d8            | 50    | 50.7   | 101          |      | 70 (86)    | 130 (113) |
|               |                      | 4-Bromofluorobenzene  | 50    | 55.9   | 112          |      | 70 (77)    | 130 (121) |
| VX0820WBS01   | VX0820WBS01          | 1,2-Dichloroethane-d4 | 50    | 49.0   | 98           |      | 70 (74)    | 130 (125) |
|               |                      | Dibromofluoromethane  | 50    | 49.9   | 100          |      | 70 (75)    | 130 (124) |
|               |                      | Toluene-d8            | 50    | 49.2   | 98           |      | 70 (86)    | 130 (113) |
|               |                      | 4-Bromofluorobenzene  | 50    | 50.2   | 100          |      | 70 (77)    | 130 (121) |
| VX0820WBSD0   | VX0820WBSD01         | 1,2-Dichloroethane-d4 | 50    | 51.0   | 102          |      | 70 (74)    | 130 (125) |
|               |                      | Dibromofluoromethane  | 50    | 50.5   | 101          |      | 70 (75)    | 130 (124) |
|               |                      | Toluene-d8            | 50    | 50.2   | 100          |      | 70 (86)    | 130 (113) |
|               |                      | 4-Bromofluorobenzene  | 50    | 51.7   | 103          |      | 70 (77)    | 130 (121) |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                                       |                           |                   |
|-----------------|---------------------------------------|---------------------------|-------------------|
| <b>SDG No.:</b> | <u>Q2878</u>                          | <b>Analytical Method:</b> | <u>SW8260-Low</u> |
| <b>Client:</b>  | <u>JACOBS Engineering Group, Inc.</u> | <b>Datafile :</b>         | <u>VX047430.D</u> |

| Lab Sample ID | Parameter              | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD |
|---------------|------------------------|-------|--------|------|-----|-----|------|---------|----------------|-----|
| VX0820WBS01   | Vinyl chloride         | 20    | 16.1   | ug/L | 81  |     |      | 70 (65) | 130 (117)      |     |
|               | 1,1-Dichloroethene     | 20    | 16.8   | ug/L | 84  |     |      | 70 (74) | 130 (110)      |     |
|               | 1,1-Dichloroethane     | 20    | 17.2   | ug/L | 86  |     |      | 70 (78) | 130 (112)      |     |
|               | cis-1,2-Dichloroethene | 20    | 17.1   | ug/L | 86  |     |      | 70 (77) | 130 (110)      |     |
|               | 1,1,1-Trichloroethane  | 20    | 17.2   | ug/L | 86  |     |      | 70 (80) | 130 (108)      |     |
|               | Benzene                | 20    | 17.6   | ug/L | 88  |     |      | 70 (82) | 130 (109)      |     |
|               | 1,2-Dichloroethane     | 20    | 17.6   | ug/L | 88  |     |      | 70 (80) | 130 (115)      |     |
|               | Trichloroethene        | 20    | 17.2   | ug/L | 86  |     |      | 70 (77) | 130 (113)      |     |
|               | 1,1,2-Trichloroethane  | 20    | 18.1   | ug/L | 91  |     |      | 70 (83) | 130 (112)      |     |
|               | Tetrachloroethene      | 20    | 17.2   | ug/L | 86  |     |      | 70 (67) | 130 (123)      |     |

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

**SW-846**

|                 |                                              |                           |                          |
|-----------------|----------------------------------------------|---------------------------|--------------------------|
| <b>SDG No.:</b> | <u><b>Q2878</b></u>                          | <b>Analytical Method:</b> | <u><b>SW8260-Low</b></u> |
| <b>Client:</b>  | <u><b>JACOBS Engineering Group, Inc.</b></u> | <b>Datafile :</b>         | <u><b>VX047431.D</b></u> |

| Lab Sample ID       | Parameter              | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD     |
|---------------------|------------------------|-------|--------|------|-----|-----|------|---------|----------------|---------|
| <b>VX0820WBSD01</b> | Vinyl chloride         | 20    | 16.3   | ug/L | 81  | 0   |      | 70 (65) | 130 (117)      | 20 (19) |
|                     | 1,1-Dichloroethene     | 20    | 16.3   | ug/L | 81  | 4   |      | 70 (74) | 130 (110)      | 20 (20) |
|                     | 1,1-Dichloroethane     | 20    | 17.6   | ug/L | 88  | 2   |      | 70 (78) | 130 (112)      | 20 (20) |
|                     | cis-1,2-Dichloroethene | 20    | 17.2   | ug/L | 86  | 0   |      | 70 (77) | 130 (110)      | 20 (20) |
|                     | 1,1,1-Trichloroethane  | 20    | 17.3   | ug/L | 86  | 0   |      | 70 (80) | 130 (108)      | 20 (20) |
|                     | Benzene                | 20    | 17.9   | ug/L | 90  | 2   |      | 70 (82) | 130 (109)      | 20 (15) |
|                     | 1,2-Dichloroethane     | 20    | 18.2   | ug/L | 91  | 3   |      | 70 (80) | 130 (115)      | 20 (20) |
|                     | Trichloroethene        | 20    | 17.1   | ug/L | 86  | 0   |      | 70 (77) | 130 (113)      | 20 (15) |
|                     | 1,1,2-Trichloroethane  | 20    | 18.9   | ug/L | 95  | 4   |      | 70 (83) | 130 (112)      | 20 (20) |
|                     | Tetrachloroethene      | 20    | 17.0   | ug/L | 85  | 1   |      | 70 (67) | 130 (123)      | 20 (15) |

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0820WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q2878

Lab File ID: VX047429.D

Lab Sample ID: VX0820WBL01

Date Analyzed: 08/20/2025

Time Analyzed: 10:07

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA\_X

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

| EPA<br>SAMPLE NO.    | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|----------------------|------------------|----------------|------------------|
| VX0820WBS01          | VX0820WBS01      | VX047430.D     | 08/20/2025       |
| VX0820WBSD01         | VX0820WBSD01     | VX047431.D     | 08/20/2025       |
| TB01-081425          | Q2878-06         | VX047441.D     | 08/20/2025       |
| MW-18B-57.5-081325   | Q2878-01         | VX047450.D     | 08/20/2025       |
| MW-18B-57.5-081325DL | Q2878-01DL       | VX047451.D     | 08/20/2025       |
| MW-11B-37.5-081425   | Q2878-05         | VX047452.D     | 08/20/2025       |

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q2878

Lab File ID: VX047347.D

BFB Injection Date: 08/15/2025

Instrument ID: MSVOA\_X

BFB Injection Time: 08:28

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

Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 19.3                 |
| 75  | 30.0 - 60.0% of mass 95            | 51.4                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |
| 173 | Less than 2.0% of mass 174         | 0.9 ( 1.1 ) 1        |
| 174 | 50.0 - 100.0% of mass 95           | 74.3                 |
| 175 | 5.0 - 9.0% of mass 174             | 6.1 ( 8.2 ) 1        |
| 176 | 95.0 - 101.0% of mass 174          | 71.9 ( 96.8 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 4.4 ( 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 |
|-----------|---------------|-------------|---------------|---------------|
| VSTDIC005 | VSTDIC005     | VX047349.D  | 08/15/2025    | 09:40         |
| VSTDIC020 | VSTDIC020     | VX047350.D  | 08/15/2025    | 10:01         |
| VSTDIC050 | VSTDIC050     | VX047351.D  | 08/15/2025    | 10:22         |
| VSTDIC100 | VSTDIC100     | VX047352.D  | 08/15/2025    | 10:43         |
| VSTDIC150 | VSTDIC150     | VX047353.D  | 08/15/2025    | 11:05         |
| VSTDIC001 | VSTDIC001     | VX047356.D  | 08/15/2025    | 12:30         |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q2878

Lab File ID: VX047426.D

BFB Injection Date: 08/20/2025

Instrument ID: MSVOA\_X

BFB Injection Time: 07:50

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

Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0% of mass 95            | 19.4                 |
| 75  | 30.0 - 60.0% of mass 95            | 52.7                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.7                  |
| 173 | Less than 2.0% of mass 174         | 0.8 ( 1 ) 1          |
| 174 | 50.0 - 100.0% of mass 95           | 75.4                 |
| 175 | 5.0 - 9.0% of mass 174             | 6 ( 7.9 ) 1          |
| 176 | 95.0 - 101.0% of mass 174          | 72.1 ( 95.6 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 5 ( 6.9 ) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID            | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----------------------|---------------|-------------|---------------|---------------|
| VSTDCCC050           | VSTDCCC050    | VX047427.D  | 08/20/2025    | 09:25         |
| VX0820WBL01          | VX0820WBL01   | VX047429.D  | 08/20/2025    | 10:07         |
| VX0820WBS01          | VX0820WBS01   | VX047430.D  | 08/20/2025    | 10:35         |
| VX0820WBSD01         | VX0820WBSD01  | VX047431.D  | 08/20/2025    | 11:06         |
| TB01-081425          | Q2878-06      | VX047441.D  | 08/20/2025    | 14:42         |
| MW-18B-57.5-081325   | Q2878-01      | VX047450.D  | 08/20/2025    | 17:57         |
| MW-18B-57.5-081325DL | Q2878-01DL    | VX047451.D  | 08/20/2025    | 18:18         |
| MW-11B-37.5-081425   | Q2878-05      | VX047452.D  | 08/20/2025    | 18:40         |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JAC005  
 Lab Code: ACE SDG NO.: Q2878  
 Lab File ID: VX047427.D Date Analyzed: 08/20/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 09:25  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                      | IS1<br>AREA # | RT #  | IS2<br>AREA # | RT #  | IS3<br>AREA # | RT #   |
|----------------------|---------------|-------|---------------|-------|---------------|--------|
| 12 HOUR STD          | 222102        | 5.56  | 369648        | 6.76  | 338607        | 10.05  |
| UPPER LIMIT          | 444204        | 6.056 | 739296        | 7.263 | 677214        | 10.549 |
| LOWER LIMIT          | 111051        | 5.056 | 184824        | 6.263 | 169304        | 9.549  |
| EPA SAMPLE NO.       |               |       |               |       |               |        |
| MW-18B-57.5-081325   | 205051        | 5.57  | 415601        | 6.77  | 411051        | 10.06  |
| MW-18B-57.5-081325DL | 215725        | 5.57  | 432331        | 6.77  | 427580        | 10.06  |
| MW-11B-37.5-081425   | 233413        | 5.57  | 475099        | 6.78  | 465473        | 10.06  |
| TB01-081425          | 298809        | 5.57  | 610463        | 6.78  | 600442        | 10.06  |
| VX0820WBL01          | 280589        | 5.57  | 574542        | 6.77  | 560929        | 10.06  |
| VX0820WBS01          | 244648        | 5.56  | 407608        | 6.76  | 368354        | 10.06  |
| VX0820WBSD01         | 227988        | 5.56  | 384011        | 6.76  | 353527        | 10.06  |

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JAC005  
 Lab Code: ACE SDG NO.: Q2878  
 Lab File ID: VX047427.D Date Analyzed: 08/20/2025  
 Instrument ID: MSVOA\_X Time Analyzed: 09:25  
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

|                      | IS4<br>AREA # | RT #   |  |  |  |  |
|----------------------|---------------|--------|--|--|--|--|
| 12 HOUR STD          | 165668        | 12.018 |  |  |  |  |
| UPPER LIMIT          | 331336        | 12.518 |  |  |  |  |
| LOWER LIMIT          | 82834         | 11.518 |  |  |  |  |
| EPA SAMPLE NO.       |               |        |  |  |  |  |
| MW-18B-57.5-081325   | 206897        | 12.02  |  |  |  |  |
| MW-18B-57.5-081325DL | 219266        | 12.02  |  |  |  |  |
| MW-11B-37.5-081425   | 242657        | 12.02  |  |  |  |  |
| TB01-081425          | 294767        | 12.02  |  |  |  |  |
| VX0820WBL01          | 279679        | 12.02  |  |  |  |  |
| VX0820WBS01          | 188940        | 12.02  |  |  |  |  |
| VX0820WBSD01         | 182846        | 12.02  |  |  |  |  |

IS4 = 1,4-Dichlorobenzene-d4

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

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



# QC SAMPLE DATA

A = Aldol-Condensation Reaction Products

## Report of Analysis

|                    |                                            |                 |                              |
|--------------------|--------------------------------------------|-----------------|------------------------------|
| Client:            | JACOBS Engineering Group, Inc.             | Date Collected: |                              |
| Project:           | Former Schlumberger STC PTC Site D3868221  | Date Received:  |                              |
| Client Sample ID:  | VX0820WBS01                                | SDG No.:        | Q2878                        |
| Lab Sample ID:     | VX0820WBS01                                | 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:         | DB-624UI                      ID :    0.18 | Level :         | LOW                          |
| Prep Method :      |                                            |                 |                              |

|                   |           |                |               |
|-------------------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Date Analyzed  | Prep Batch ID |
| VX047430.D        | 1         | 08/20/25 10:35 | VX082025      |

| CAS Number                | Parameter              | Conc.  | Qualifier | MDL                 | LOQ / CRQL | Units   |
|---------------------------|------------------------|--------|-----------|---------------------|------------|---------|
| <b>TARGETS</b>            |                        |        |           |                     |            |         |
| 75-01-4                   | Vinyl Chloride         | 16.1   |           | 0.26                | 1.00       | ug/L    |
| 75-35-4                   | 1,1-Dichloroethene     | 16.8   |           | 0.23                | 1.00       | ug/L    |
| 75-34-3                   | 1,1-Dichloroethane     | 17.2   |           | 0.23                | 1.00       | ug/L    |
| 156-59-2                  | cis-1,2-Dichloroethene | 17.1   |           | 0.19                | 1.00       | ug/L    |
| 71-55-6                   | 1,1,1-Trichloroethane  | 17.2   |           | 0.20                | 1.00       | ug/L    |
| 71-43-2                   | Benzene                | 17.6   |           | 0.15                | 1.00       | ug/L    |
| 107-06-2                  | 1,2-Dichloroethane     | 17.6   |           | 0.22                | 1.00       | ug/L    |
| 79-01-6                   | Trichloroethene        | 17.2   |           | 0.090               | 1.00       | ug/L    |
| 79-00-5                   | 1,1,2-Trichloroethane  | 18.1   |           | 0.21                | 1.00       | ug/L    |
| 127-18-4                  | Tetrachloroethene      | 17.2   |           | 0.23                | 1.00       | ug/L    |
| <b>SURROGATES</b>         |                        |        |           |                     |            |         |
| 17060-07-0                | 1,2-Dichloroethane-d4  | 49.0   |           | 70 (74) - 130 (125) | 98%        | SPK: 50 |
| 1868-53-7                 | Dibromofluoromethane   | 49.8   |           | 70 (75) - 130 (124) | 100%       | SPK: 50 |
| 2037-26-5                 | Toluene-d8             | 49.2   |           | 70 (86) - 130 (113) | 98%        | SPK: 50 |
| 460-00-4                  | 4-Bromofluorobenzene   | 50.2   |           | 70 (77) - 130 (121) | 100%       | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |                        |        |           |                     |            |         |
| 363-72-4                  | Pentafluorobenzene     | 245000 | 5.556     |                     |            |         |
| 540-36-3                  | 1,4-Difluorobenzene    | 408000 | 6.763     |                     |            |         |
| 3114-55-4                 | Chlorobenzene-d5       | 368000 | 10.055    |                     |            |         |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4 | 189000 | 12.018    |                     |            |         |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

A = Aldol-Condensation Reaction Products



# CALIBRATION SUMMARY

### VOLATILE ORGANICS INITIAL CALIBRATION DATA

|                                                 |                                                          |
|-------------------------------------------------|----------------------------------------------------------|
| Lab Name: <u>Alliance</u>                       | Contract: <u>JAC005</u>                                  |
| Lab Code: <u>ACE</u>                            | SDG No.: <u>Q2878</u>                                    |
| Instrument ID: <u>MSVOA_X</u>                   | Calibration Date(s): <u>08/15/2025</u> <u>08/15/2025</u> |
| Heated Purge: (Y/N) <u>N</u>                    | Calibration Time(s): <u>09:40</u> <u>12:30</u>           |
| GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm) |                                                          |

|                        |        |                     |        |                     |        |                     |       |       |
|------------------------|--------|---------------------|--------|---------------------|--------|---------------------|-------|-------|
| LAB FILE ID:           |        | RRF005 = VX047349.D |        | RRF020 = VX047350.D |        | RRF050 = VX047351.D |       |       |
|                        |        | RRF100 = VX047352.D |        | RRF150 = VX047353.D |        | RRF001 = VX047356.D |       |       |
| COMPOUND               | RRF005 | RRF020              | RRF050 | RRF100              | RRF150 | RRF001              | RRF   | % RSD |
| Vinyl Chloride         | 0.651  | 0.751               | 0.800  | 0.729               | 0.757  | 0.630               | 0.720 | 9.2   |
| 1,1-Dichloroethene     | 0.575  | 0.664               | 0.697  | 0.635               | 0.651  | 0.555               | 0.630 | 8.6   |
| 1,1-Dichloroethane     | 1.180  | 1.294               | 1.356  | 1.210               | 1.238  | 1.052               | 1.222 | 8.5   |
| cis-1,2-Dichloroethene | 0.758  | 0.826               | 0.846  | 0.769               | 0.779  | 0.692               | 0.778 | 7     |
| 1,1,1-Trichloroethane  | 1.043  | 1.151               | 1.195  | 1.081               | 1.106  | 0.863               | 1.073 | 10.8  |
| Benzene                | 1.502  | 1.665               | 1.701  | 1.516               | 1.504  | 1.312               | 1.533 | 9.1   |
| 1,2-Dichloroethane     | 0.521  | 0.594               | 0.600  | 0.532               | 0.528  | 0.484               | 0.543 | 8.3   |
| Trichloroethene        | 0.383  | 0.423               | 0.432  | 0.390               | 0.391  | 0.336               | 0.393 | 8.6   |
| 1,1,2-Trichloroethane  | 0.358  | 0.393               | 0.396  | 0.352               | 0.347  | 0.313               | 0.360 | 8.6   |
| Tetrachloroethene      | 0.351  | 0.384               | 0.398  | 0.360               | 0.360  | 0.316               | 0.362 | 7.8   |
| 1,2-Dichloroethane-d4  | 0.709  | 0.581               | 0.700  | 0.747               | 0.762  |                     | 0.700 | 10.2  |
| Dibromofluoromethane   | 0.310  | 0.278               | 0.331  | 0.354               | 0.349  |                     | 0.325 | 9.6   |
| Toluene-d8             | 1.157  | 0.994               | 1.171  | 1.246               | 1.232  |                     | 1.160 | 8.7   |
| 4-Bromofluorobenzene   | 0.441  | 0.371               | 0.428  | 0.452               | 0.448  |                     | 0.428 | 7.8   |

\* 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.

VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                                     |
|---------------------|-------------------|------------------------|-------------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>JAC005</u>                       |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q2878</u>                        |
| Instrument ID:      | <u>MSVOA_X</u>    | Calibration Date/Time: | <u>08/20/2025</u> <u>09:25</u>      |
| Lab File ID:        | <u>VX047427.D</u> | Init. Calib. Date(s):  | <u>08/15/2025</u> <u>08/15/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>09:40</u> <u>12:30</u>           |
| GC Column:          | <u>DB-624UI</u>   | ID:                    | <u>0.18</u> (mm)                    |

| COMPOUND               | RRF   | RRF050 | MIN<br>RRF | %D    | MAX%D |
|------------------------|-------|--------|------------|-------|-------|
| Vinyl Chloride         | 0.720 | 0.671  |            | -6.81 | 20    |
| 1,1-Dichloroethene     | 0.630 | 0.586  |            | -6.98 | 20    |
| 1,1-Dichloroethane     | 1.222 | 1.158  | 0.1        | -5.24 | 20    |
| cis-1,2-Dichloroethene | 0.778 | 0.733  |            | -5.78 | 20    |
| 1,1,1-Trichloroethane  | 1.073 | 1.016  |            | -5.31 | 20    |
| Benzene                | 1.533 | 1.484  |            | -3.2  | 20    |
| 1,2-Dichloroethane     | 0.543 | 0.539  |            | -0.74 | 20    |
| Trichloroethene        | 0.393 | 0.368  |            | -6.36 | 20    |
| 1,1,2-Trichloroethane  | 0.360 | 0.361  |            | 0.28  | 20    |
| Tetrachloroethene      | 0.362 | 0.335  |            | -7.46 | 20    |
| 1,2-Dichloroethane-d4  | 0.700 | 0.747  |            | 6.71  | 20    |
| Dibromofluoromethane   | 0.325 | 0.355  |            | 9.23  | 20    |
| Toluene-d8             | 1.160 | 1.231  |            | 6.12  | 20    |
| 4-Bromofluorobenzene   | 0.428 | 0.465  |            | 8.65  | 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\_X\Data\VX082025\  
 Data File : VX047450.D  
 Acq On : 20 Aug 2025 17:57  
 Operator : JC/MD  
 Sample : Q2878-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-18B-57.5-081325

Quant Time: Aug 21 01:37:11 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/21/2025  
 Supervised By : Mahesh Dadoda 08/22/2025

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.568          | 168  | 205051              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.769          | 114  | 415601              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 411051              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 206897              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.970          | 65   | 155820              | 54.297  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 108.600% |         |        |          |
| 35) Dibromofluoromethane     | 5.403          | 113  | 130125              | 48.243  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 96.480%  |         |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 472687              | 49.030  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 98.060%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 198622              | 55.829  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 111.660% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 3) Chloromethane             | 1.313          | 50   | 3616                | 1.538   | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.392          | 62   | 162715              | 55.130  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 2.349          | 101  | 12048               | 4.757   | ug/l   | 94       |
| 12) 1,1-Dichloroethene       | 2.343          | 96   | 22164               | 8.585   | ug/l   | 96       |
| 16) Acetone                  | 2.392          | 43   | 40491               | 37.537  | ug/l   | 97       |
| 17) Carbon Disulfide         | 2.532          | 76   | 30720               | 3.943   | ug/l   | 97       |
| 20) Methylene Chloride       | 2.806          | 84   | 1981                | 0.694   | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 3.111          | 96   | 20295               | 7.406   | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 3.629          | 63   | 40088               | 8.001   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 4.507          | 96   | 2864874             | 897.640 | ug/l   | 89       |
| 29) Tetrahydrofuran          | 5.038          | 42   | 23542               | 25.782  | ug/l   | 94       |
| 30) Chloroform               | 5.123          | 83   | 1382m               | 0.270   | ug/l   |          |
| 40) Benzene                  | 6.056          | 78   | 20126               | 1.579   | ug/l   | 98       |
| 42) 1,2-Dichloroethane       | 6.104          | 62   | 7414                | 1.642   | ug/l   | 91       |
| 44) Trichloroethene          | 7.135          | 130  | 529655              | 162.306 | ug/l   | 97       |
| 52) Toluene                  | 8.726          | 92   | 8994                | 1.142   | ug/l   | 93       |
| 64) Tetrachloroethene        | 9.281          | 164  | 2827                | 0.951   | ug/l   | 96       |
| 67) Ethyl Benzene            | 10.195         | 91   | 11095               | 0.660   | ug/l   | 97       |
| 68) m/p-Xylenes              | 10.305         | 106  | 4057                | 0.647   | ug/l   | 95       |
| 69) o-Xylene                 | 10.646         | 106  | 2042                | 0.338   | ug/l   | 94       |
| 70) Styrene                  | 10.665         | 104  | 3204                | 0.314   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene   | 11.756         | 105  | 4379                | 0.329   | ug/l   | 94       |
| 95) Naphthalene              | 13.774         | 128  | 213891              | 15.573  | ug/l   | 99       |

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

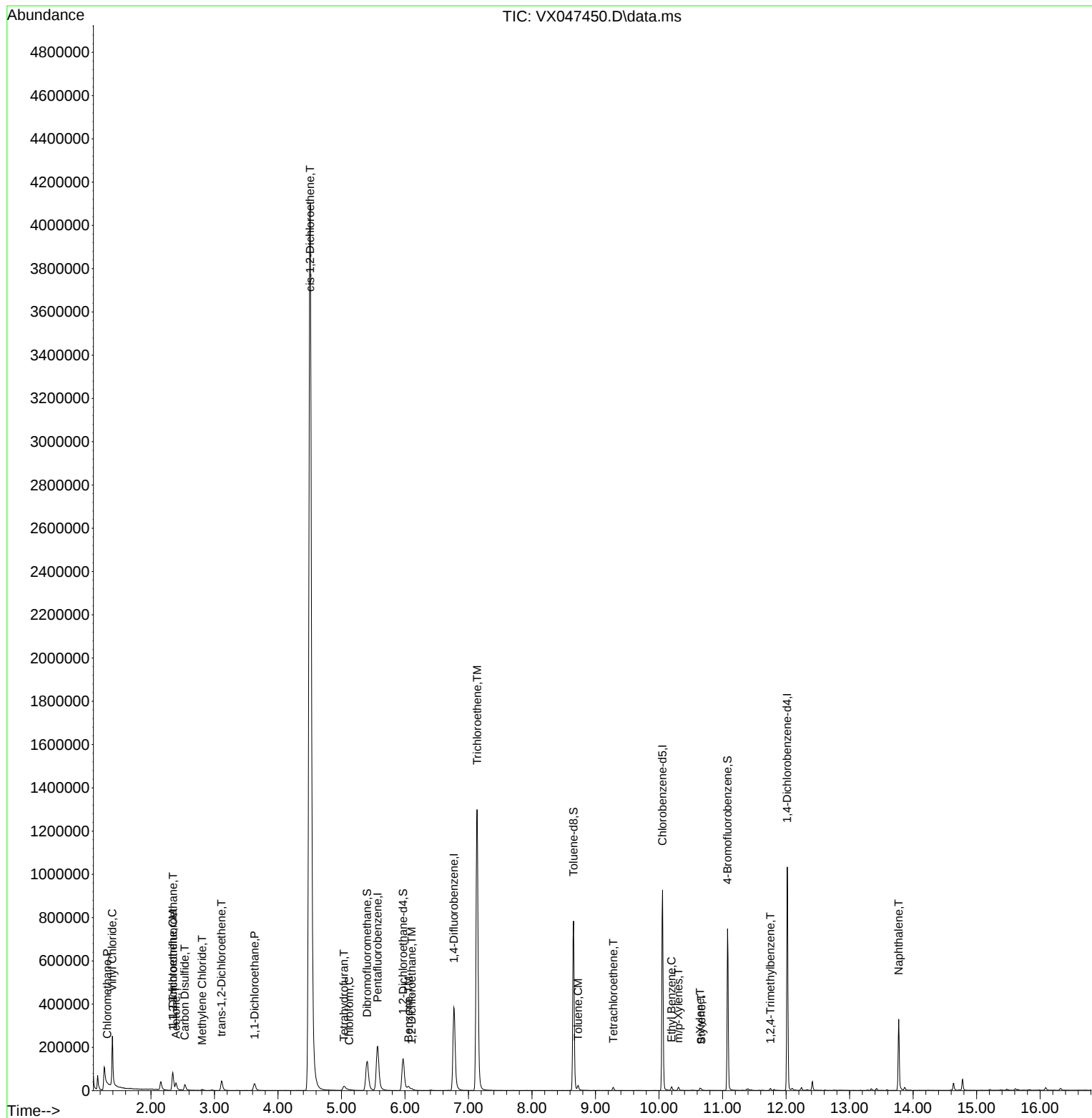
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Data File : VX047450.D  
Acq On : 20 Aug 2025 17:57  
Operator : JC/MD  
Sample : Q2878-01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 25 Sample Multiplier: 1

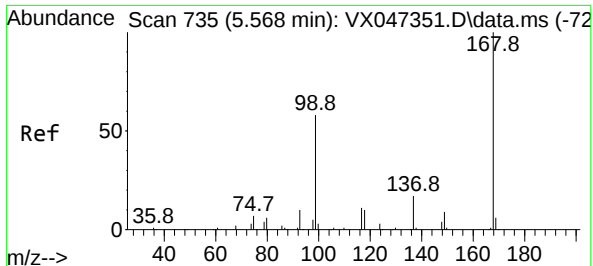
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325

Manual Integrations  
APPROVED

Reviewed By : John Carlone 08/21/2025  
Supervised By : Mahesh Dadoda 08/22/2025

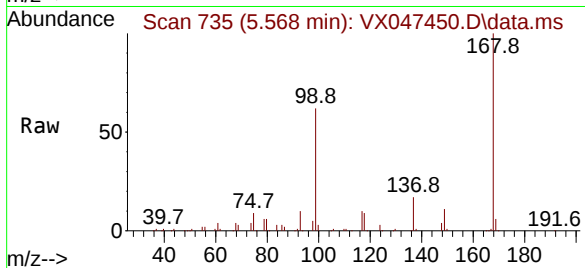
Quant Time: Aug 21 01:37:11 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.568 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX047450.D  
Acq: 20 Aug 2025 17:57

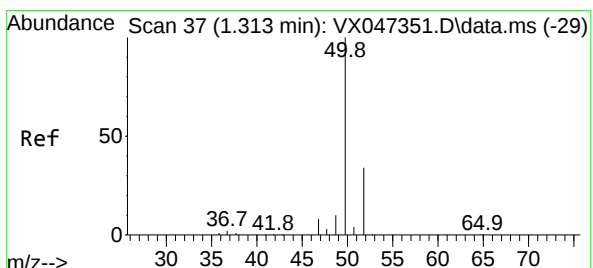
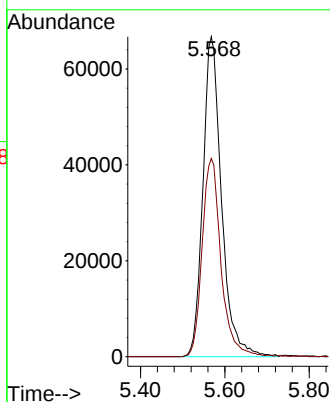
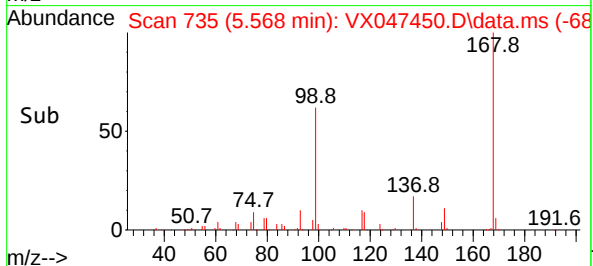
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325



Tgt Ion:168 Resp: 20505  
Ion Ratio Lower Upper  
168 100  
99 61.9 47.9 71.9

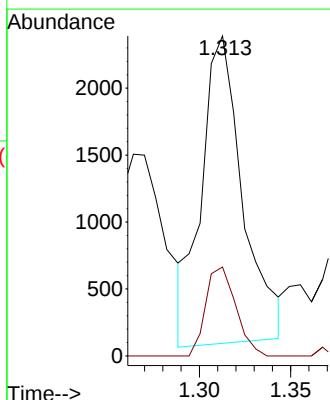
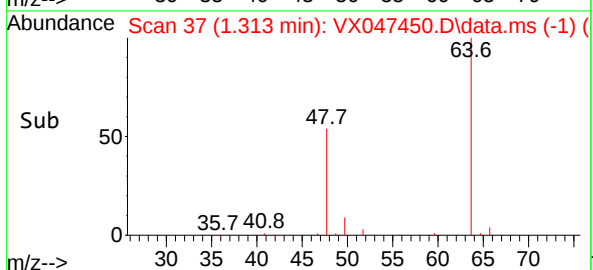
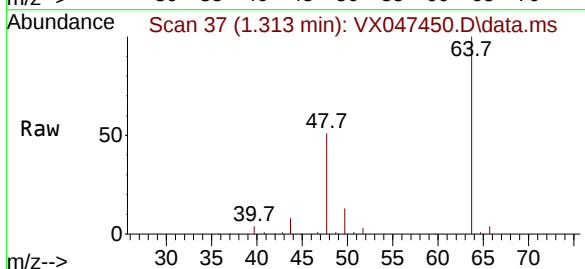
Manual Integrations  
APPROVED

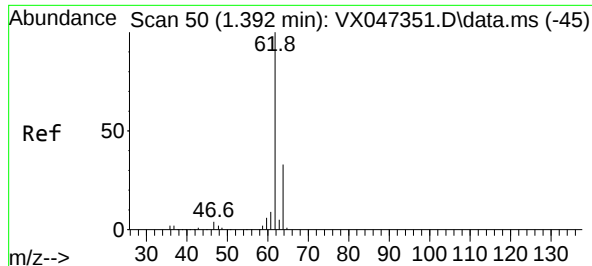
Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025



#3  
Chloromethane  
Concen: 1.538 ug/l  
RT: 1.313 min Scan# 37  
Delta R.T. 0.000 min  
Lab File: VX047450.D  
Acq: 20 Aug 2025 17:57

Tgt Ion: 50 Resp: 3616  
Ion Ratio Lower Upper  
50 100  
52 34.0 27.0 40.4





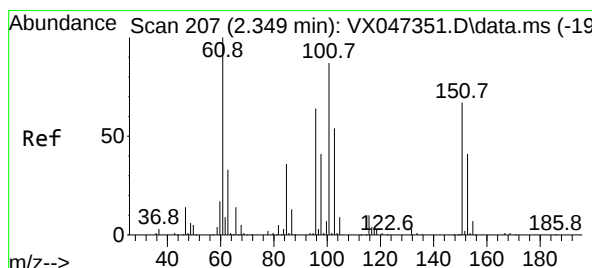
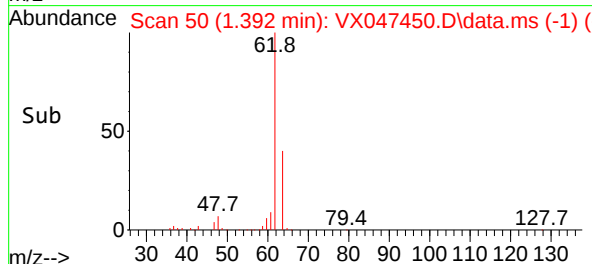
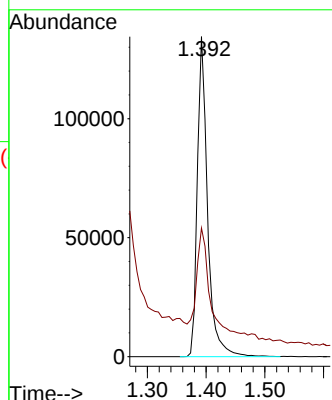
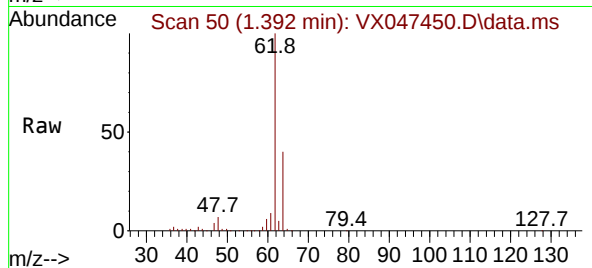
#4  
 Vinyl Chloride  
 Concen: 55.130 ug/l  
 RT: 1.392 min Scan# 50  
 Delta R.T. 0.000 min  
 Lab File: VX047450.D  
 Acq: 20 Aug 2025 17:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-18B-57.5-081325

Tgt Ion: 62 Resp: 162715  
 Ion Ratio Lower Upper  
 62 100  
 64 35.0 26.5 39.7

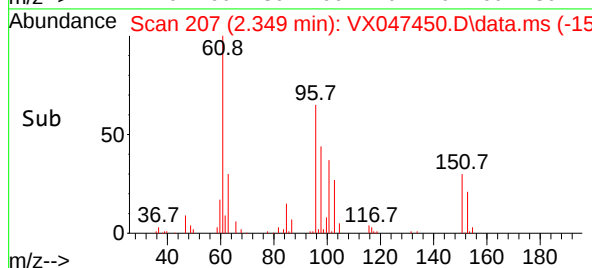
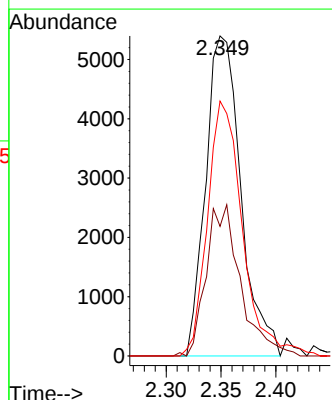
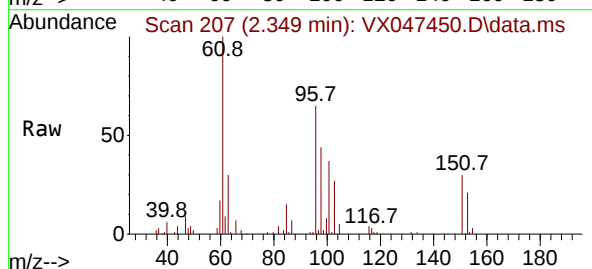
Manual Integrations  
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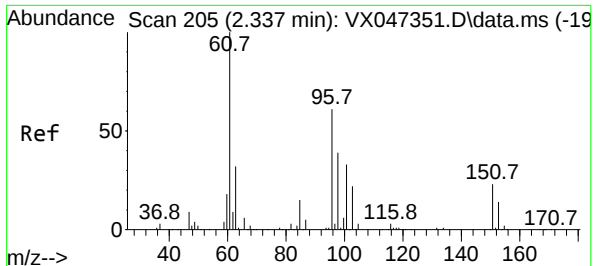
Reviewed By :John Carlone 08/21/2025  
 Supervised By :Mahesh Dadoda 08/22/2025



#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 4.757 ug/l  
 RT: 2.349 min Scan# 207  
 Delta R.T. 0.000 min  
 Lab File: VX047450.D  
 Acq: 20 Aug 2025 17:57

Tgt Ion:101 Resp: 12048  
 Ion Ratio Lower Upper  
 101 100  
 85 46.0 34.3 51.5  
 151 79.2 59.2 88.8





#12

1,1-Dichloroethene

Concen: 8.585 ug/l

RT: 2.343 min Scan# 205

Delta R.T. 0.006 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion: 96 Resp: 22164

Ion Ratio Lower Upper

96 100

61 167.1 132.2 198.2

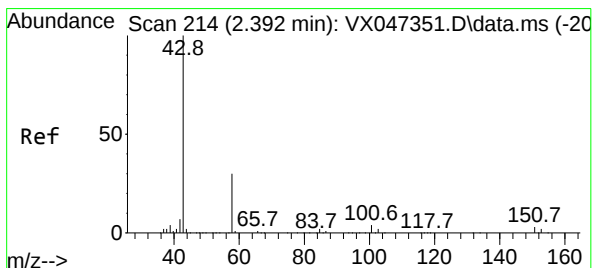
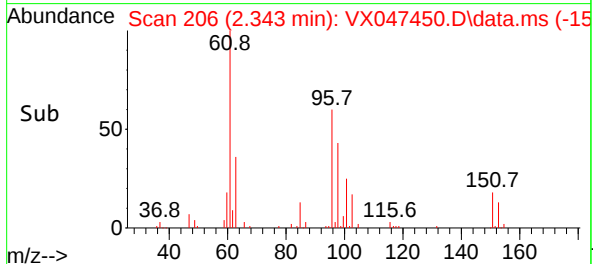
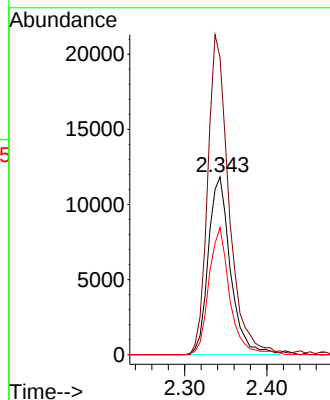
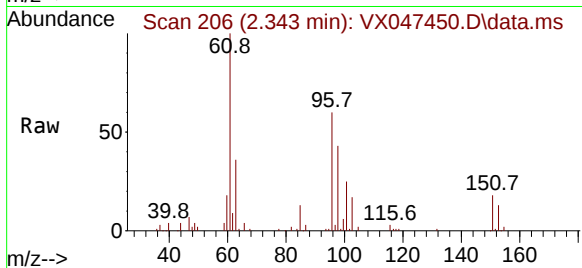
98 71.6 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#16

Acetone

Concen: 37.537 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX047450.D

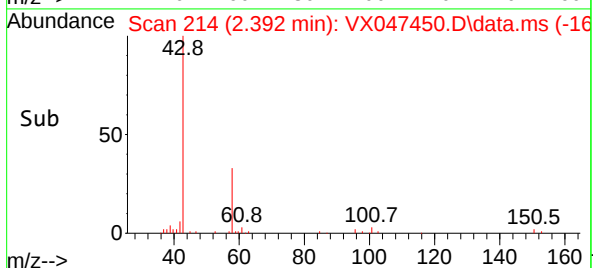
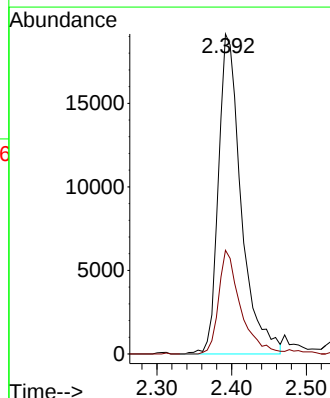
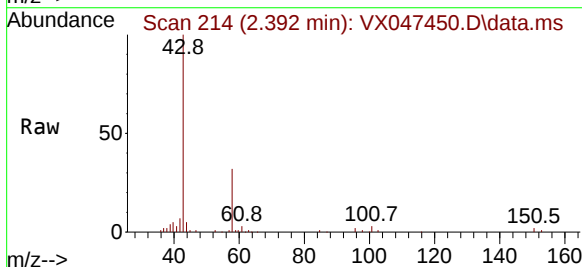
Acq: 20 Aug 2025 17:57

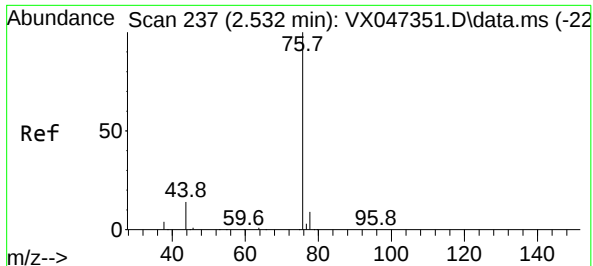
Tgt Ion: 43 Resp: 40491

Ion Ratio Lower Upper

43 100

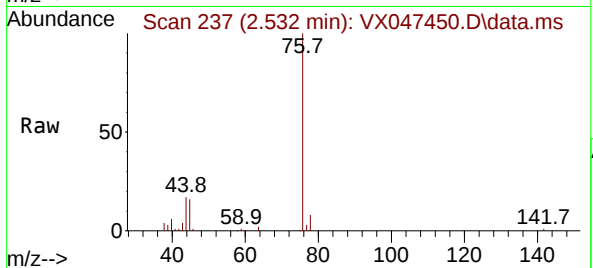
58 32.6 24.8 37.2





#17  
Carbon Disulfide  
Concen: 3.943 ug/l  
RT: 2.532 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX047450.D  
Acq: 20 Aug 2025 17:57

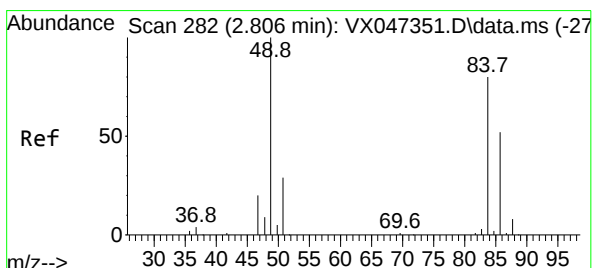
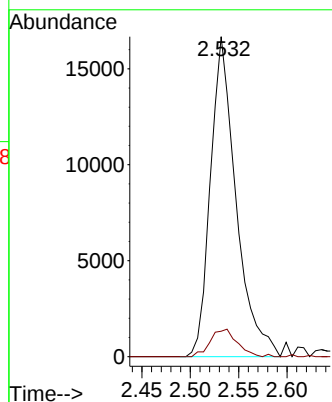
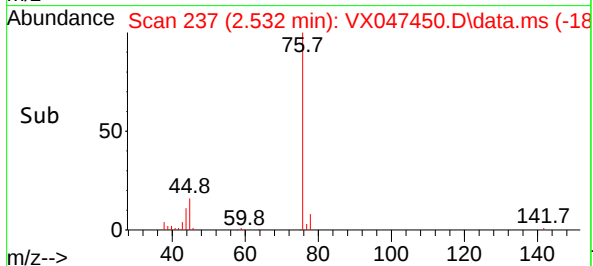
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325



Tgt Ion: 76 Resp: 30720  
Ion Ratio Lower Upper  
76 100  
78 7.9 7.2 10.8

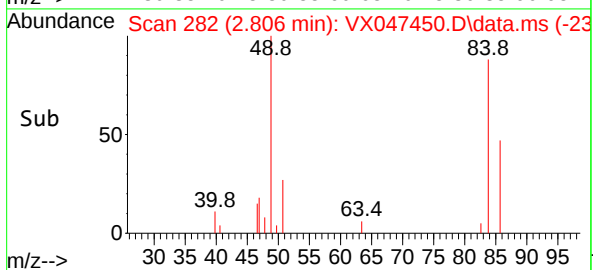
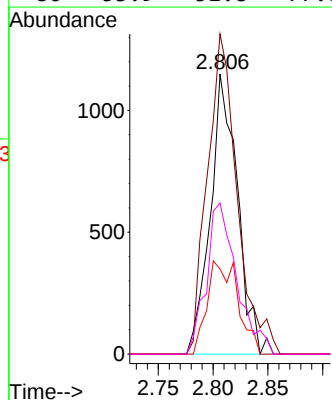
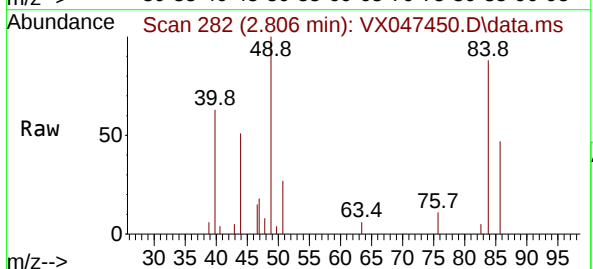
Manual Integrations  
APPROVED

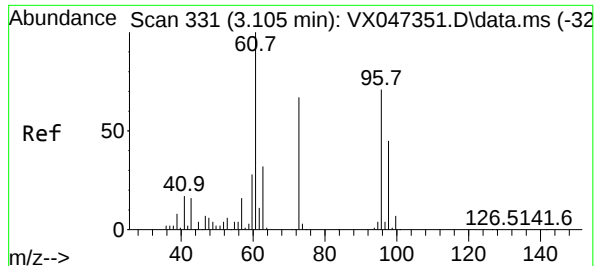
Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025



#20  
Methylene Chloride  
Concen: 0.694 ug/l  
RT: 2.806 min Scan# 282  
Delta R.T. 0.000 min  
Lab File: VX047450.D  
Acq: 20 Aug 2025 17:57

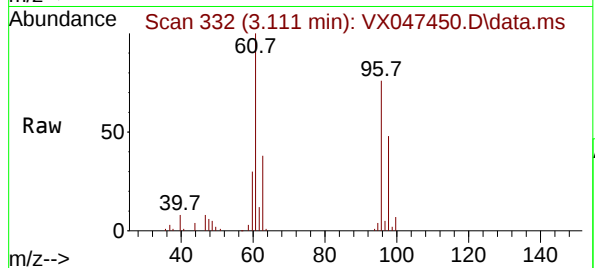
Tgt Ion: 84 Resp: 1981  
Ion Ratio Lower Upper  
84 100  
49 114.3 100.1 150.1  
51 30.3 29.5 44.3  
86 53.9 51.8 77.8





#21  
trans-1,2-Dichloroethene  
Concen: 7.406 ug/l  
RT: 3.111 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX047450.D  
Acq: 20 Aug 2025 17:57

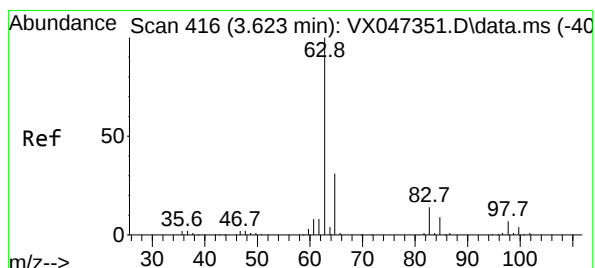
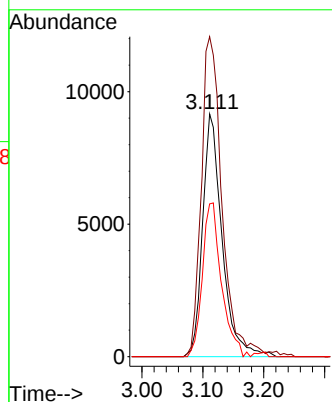
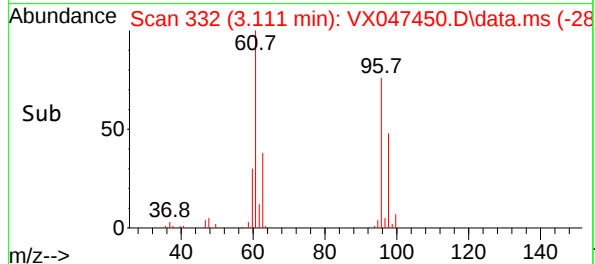
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325



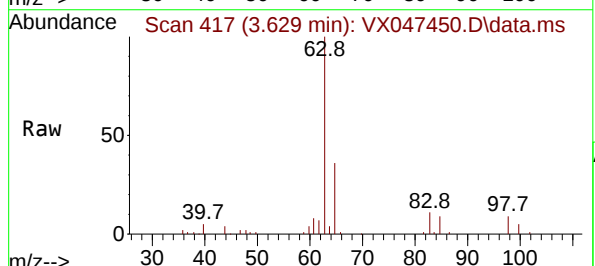
Tgt Ion: 96 Resp: 2029  
Ion Ratio Lower Upper  
96 100  
61 131.8 112.6 169.0  
98 63.0 50.9 76.3

Manual Integrations  
APPROVED

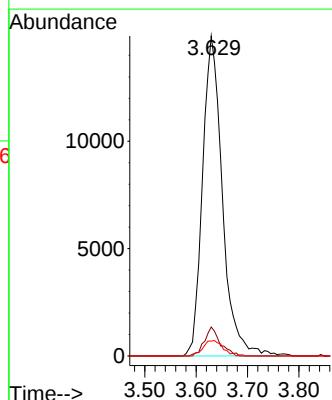
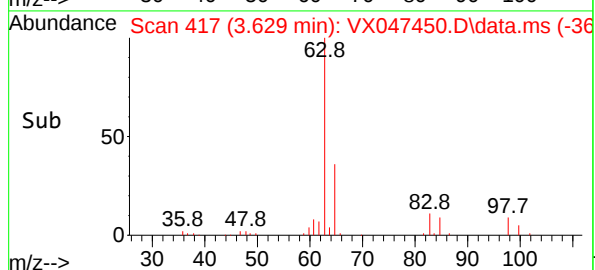
Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025

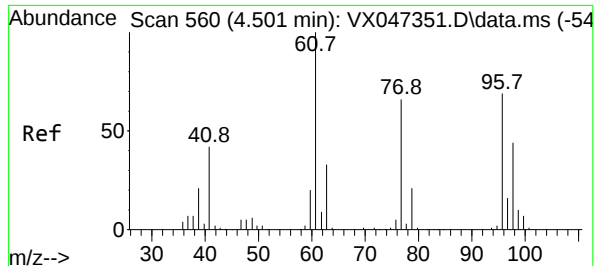


#24  
1,1-Dichloroethane  
Concen: 8.001 ug/l  
RT: 3.629 min Scan# 417  
Delta R.T. 0.006 min  
Lab File: VX047450.D  
Acq: 20 Aug 2025 17:57



Tgt Ion: 63 Resp: 40088  
Ion Ratio Lower Upper  
63 100  
98 9.1 3.3 9.9  
100 4.7 2.1 6.3





#27

cis-1,2-Dichloroethene

Concen: 897.640 ug/l

RT: 4.507 min Scan# 560

Delta R.T. 0.006 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion: 96 Resp: 2864874

Ion Ratio Lower Upper

96 100

61 129.2 0.0 296.6

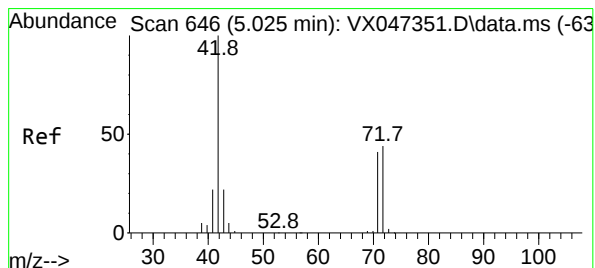
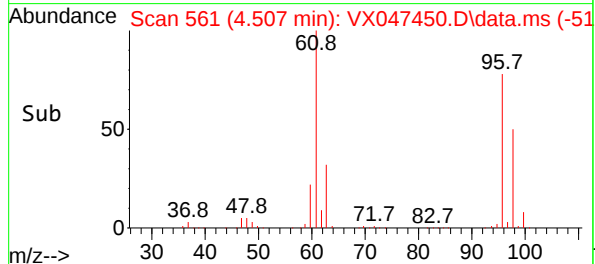
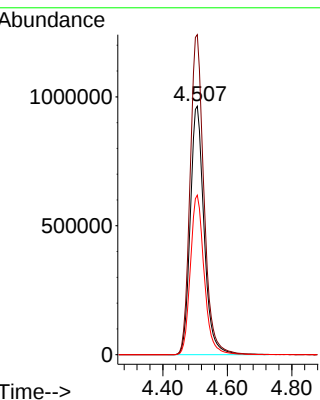
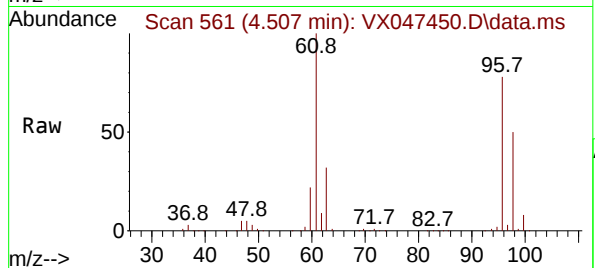
98 64.3 0.0 130.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#29

Tetrahydrofuran

Concen: 25.782 ug/l

RT: 5.038 min Scan# 648

Delta R.T. 0.012 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

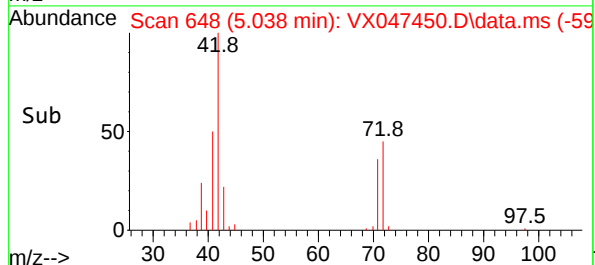
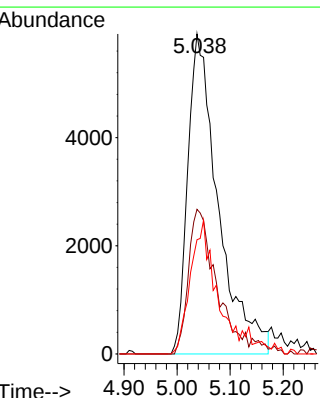
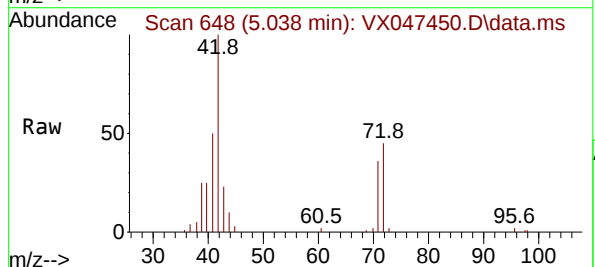
Tgt Ion: 42 Resp: 23542

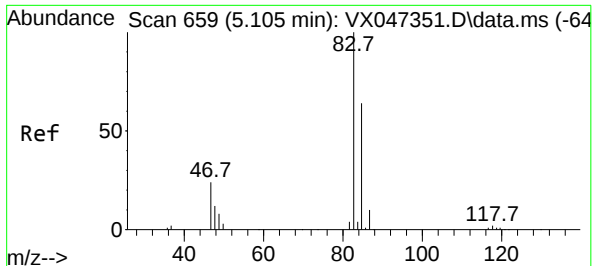
Ion Ratio Lower Upper

42 100

72 41.3 34.6 51.8

71 34.9 32.6 49.0





#30

Chloroform

Concen: 0.270 ug/l m

RT: 5.123 min Scan# 6

Delta R.T. 0.018 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion: 83 Resp: 138

Ion Ratio Lower Upper

83 100

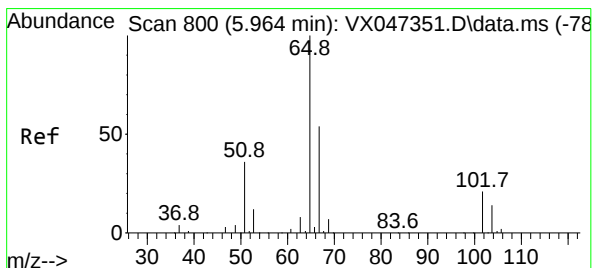
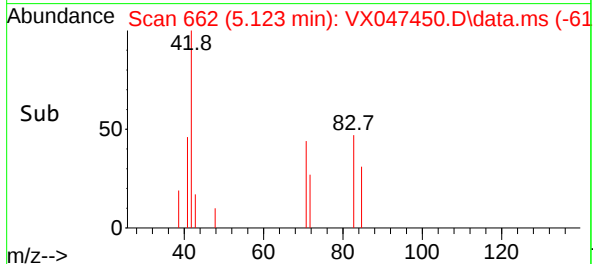
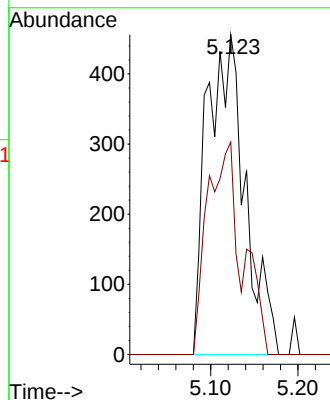
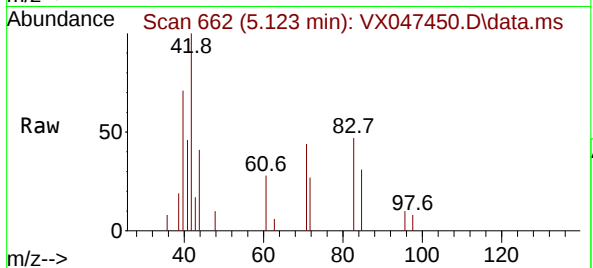
85 66.4 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#33

1,2-Dichloroethane-d4

Concen: 54.297 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.006 min

Lab File: VX047450.D

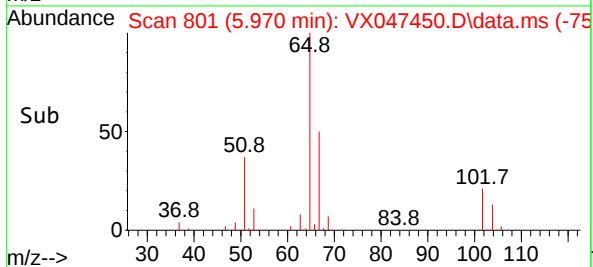
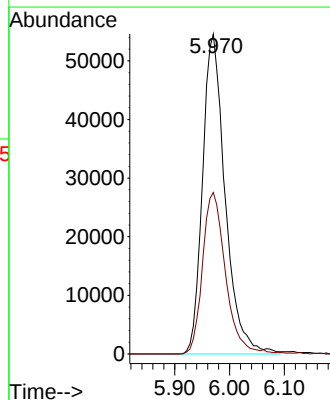
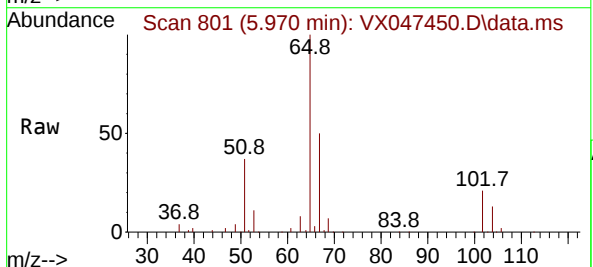
Acq: 20 Aug 2025 17:57

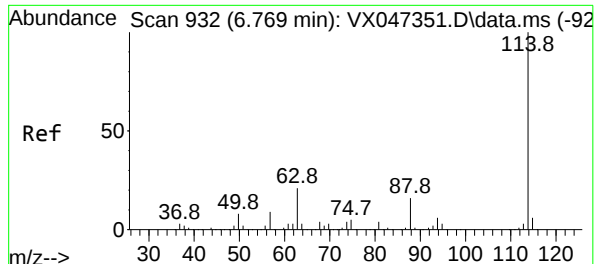
Tgt Ion: 65 Resp: 155820

Ion Ratio Lower Upper

65 100

67 51.6 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion:114 Resp: 41560

Ion Ratio Lower Upper

114 100

63 22.5 0.0 42.4

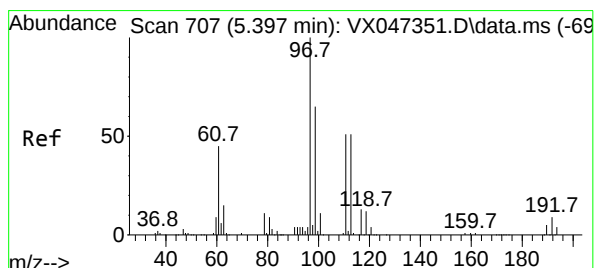
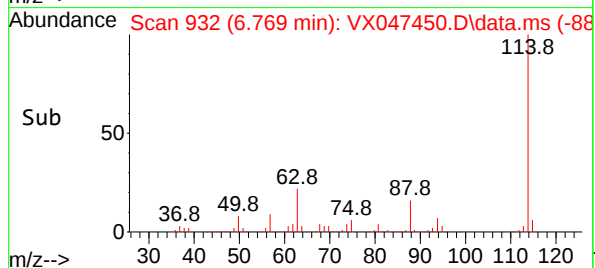
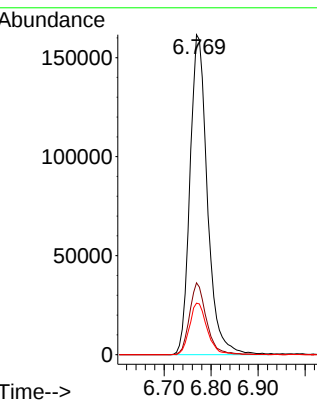
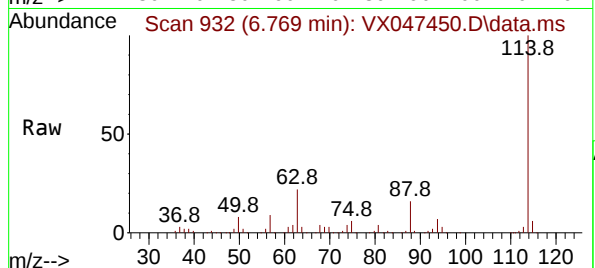
88 16.1 0.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#35

Dibromofluoromethane

Concen: 48.243 ug/l

RT: 5.403 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

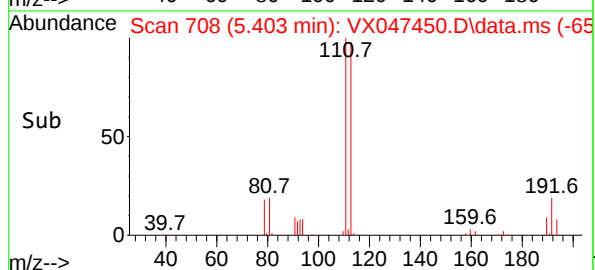
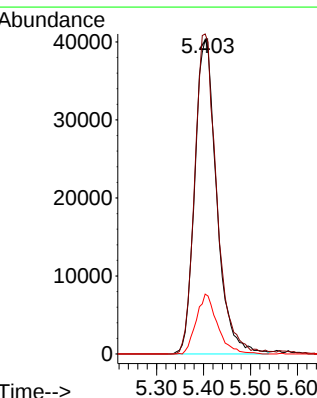
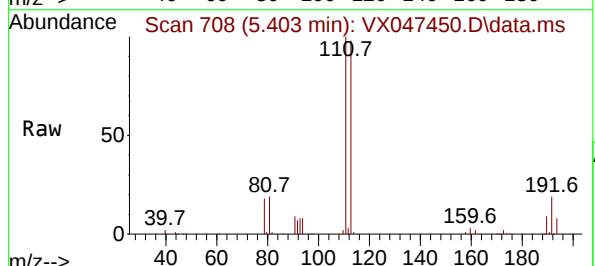
Tgt Ion:113 Resp: 130125

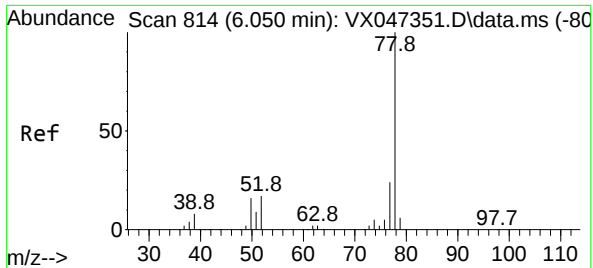
Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.2

192 18.5 14.1 21.1





#40

Benzene

Concen: 1.579 ug/l

RT: 6.056 min Scan# 814

Delta R.T. 0.006 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion: 78 Resp: 20120

Ion Ratio Lower Upper

78 100

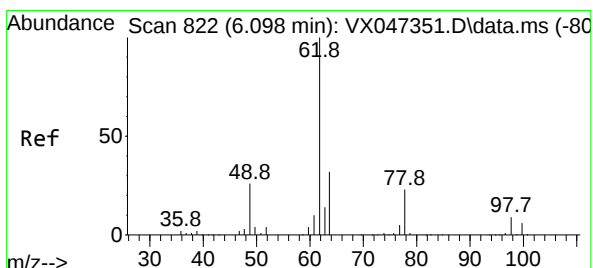
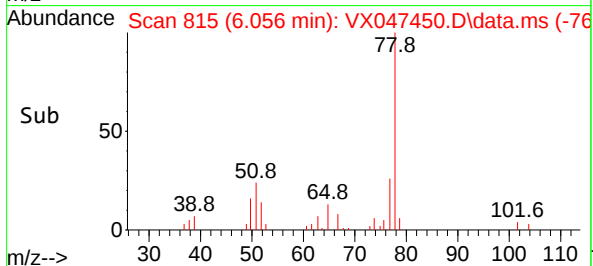
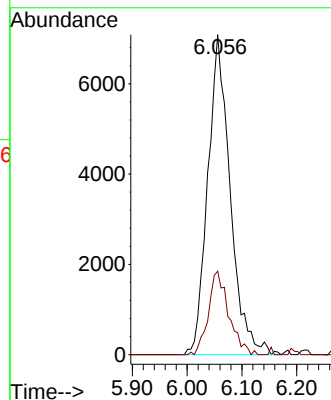
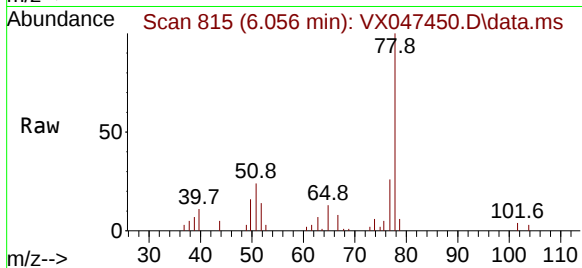
77 24.6 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#42

1,2-Dichloroethane

Concen: 1.642 ug/l

RT: 6.104 min Scan# 823

Delta R.T. 0.006 min

Lab File: VX047450.D

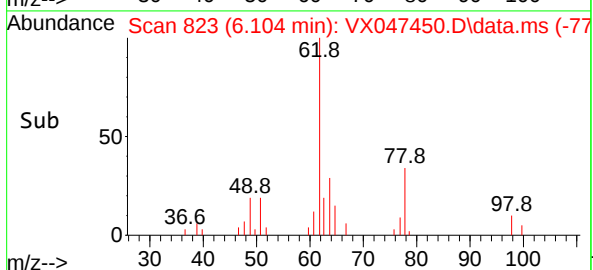
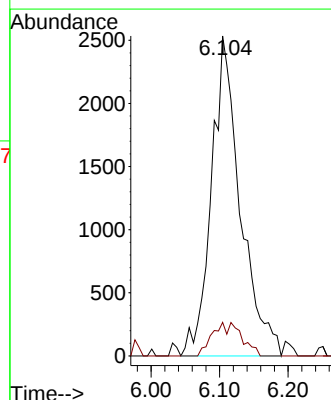
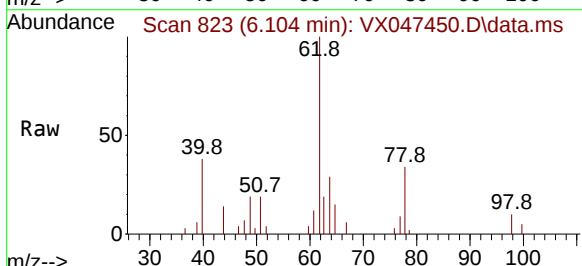
Acq: 20 Aug 2025 17:57

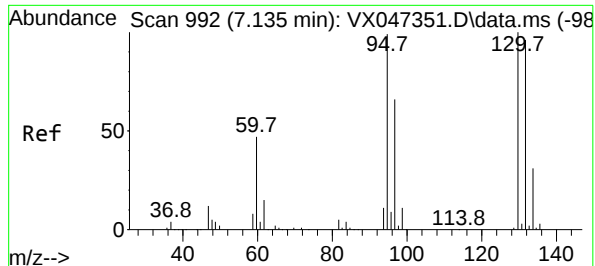
Tgt Ion: 62 Resp: 7414

Ion Ratio Lower Upper

62 100

98 5.6 0.0 18.0





#44

Trichloroethene

Concen: 162.306 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion:130 Resp: 529658

Ion Ratio Lower Upper

130 100

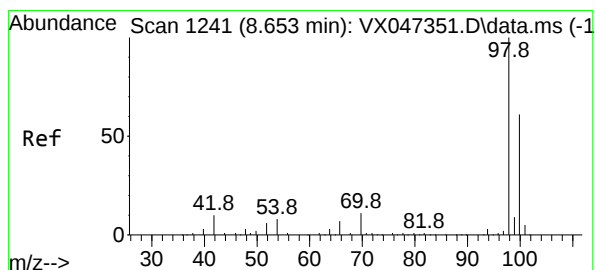
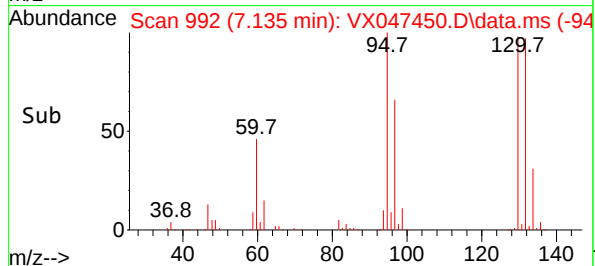
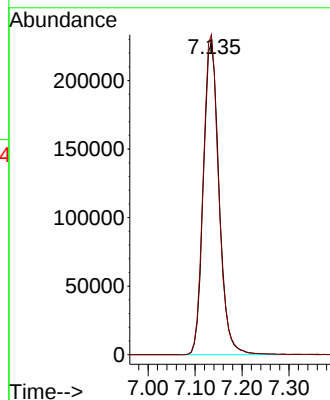
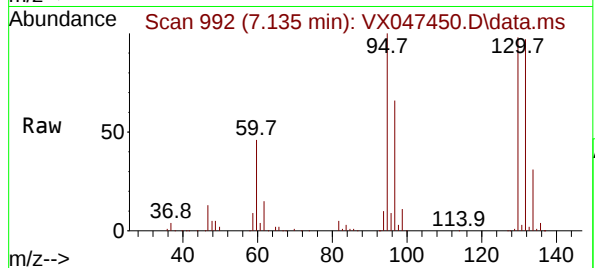
95 102.5 0.0 198.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#50

Toluene-d8

Concen: 49.030 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047450.D

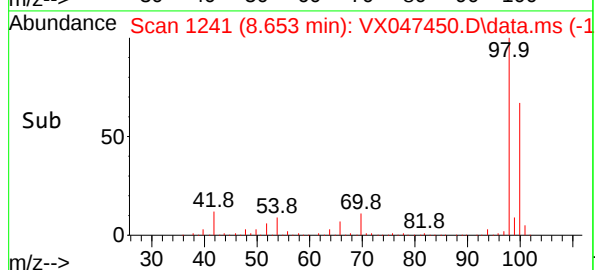
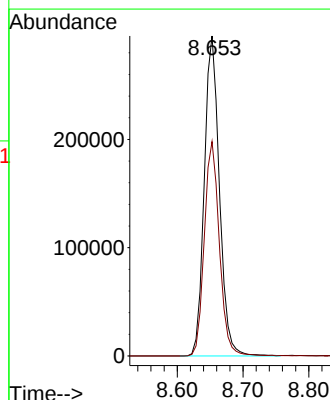
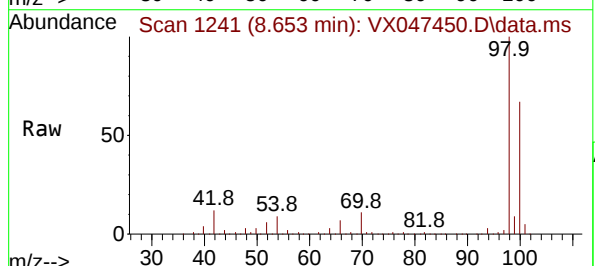
Acq: 20 Aug 2025 17:57

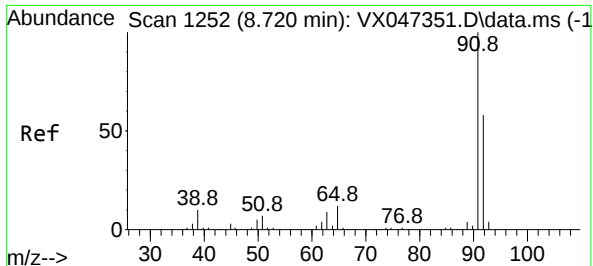
Tgt Ion: 98 Resp: 472687

Ion Ratio Lower Upper

98 100

100 66.9 53.9 80.9





#52

Toluene

Concen: 1.142 ug/l

RT: 8.726 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion: 92 Resp: 8994

Ion Ratio Lower Upper

92 100

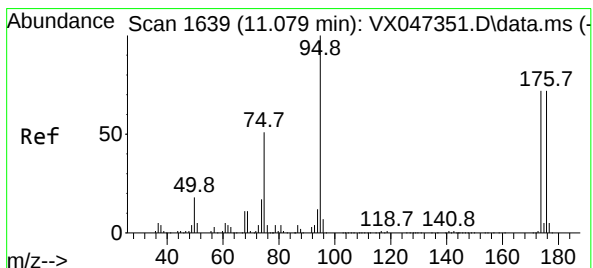
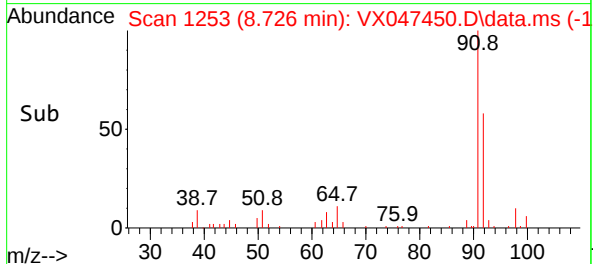
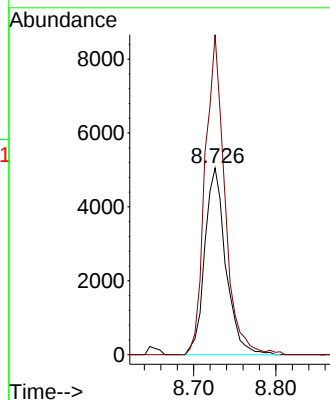
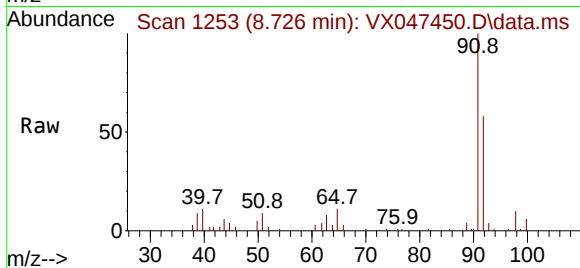
91 160.4 136.3 204.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#62

4-Bromofluorobenzene

Concen: 55.829 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

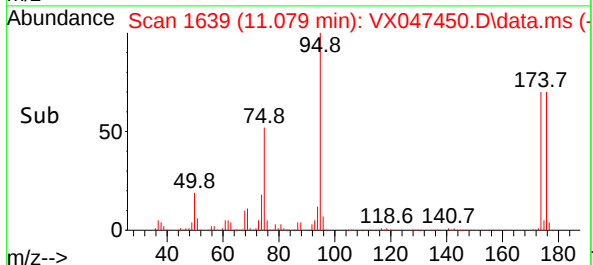
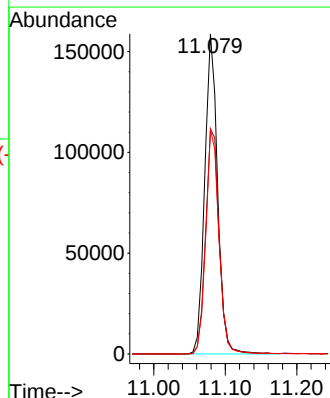
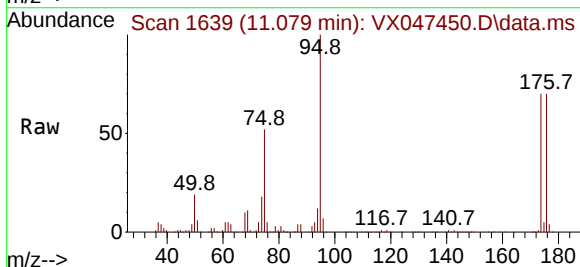
Tgt Ion: 95 Resp: 198622

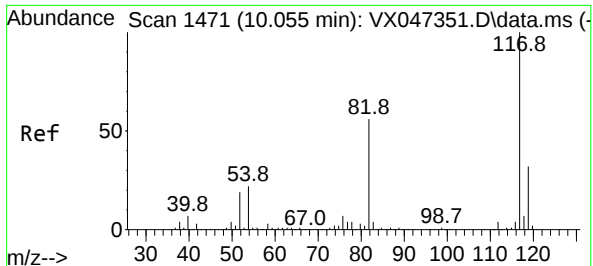
Ion Ratio Lower Upper

95 100

174 74.0 0.0 148.0

176 71.8 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion:117 Resp: 41105

Ion Ratio Lower Upper

117 100

82 55.5 45.0 67.4

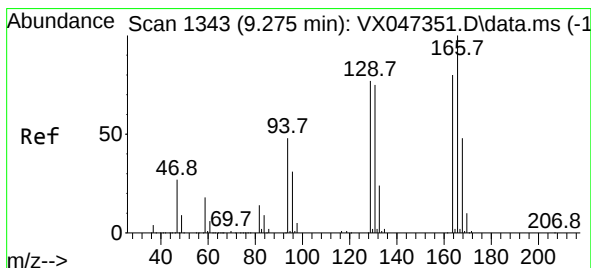
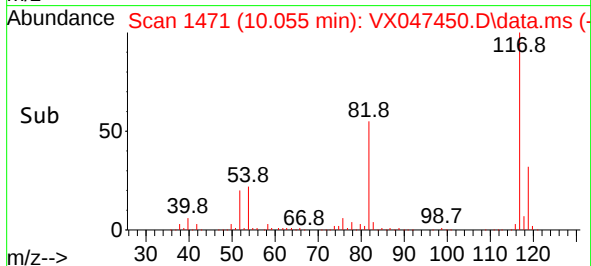
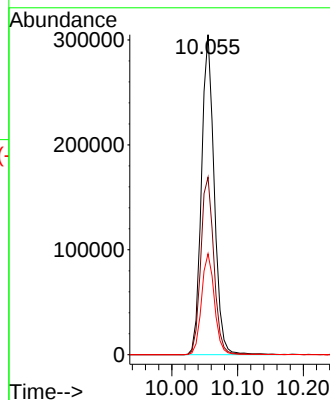
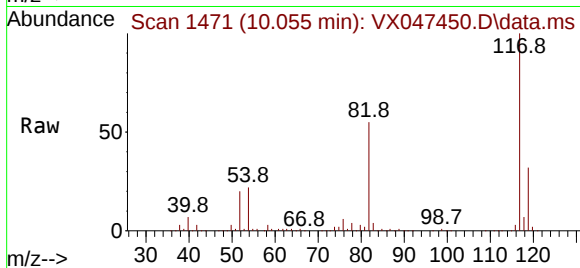
119 31.5 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#64

Tetrachloroethene

Concen: 0.951 ug/l

RT: 9.281 min Scan# 1344

Delta R.T. 0.006 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Tgt Ion:164 Resp: 2827

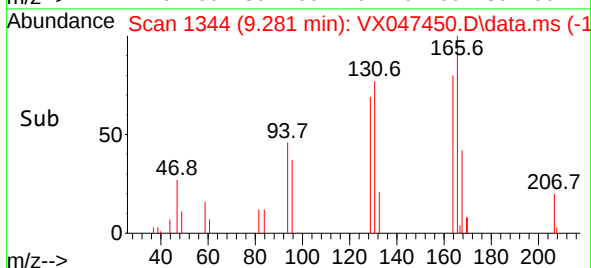
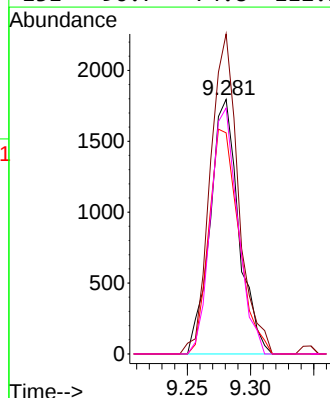
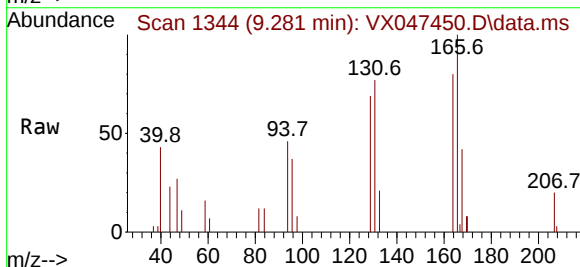
Ion Ratio Lower Upper

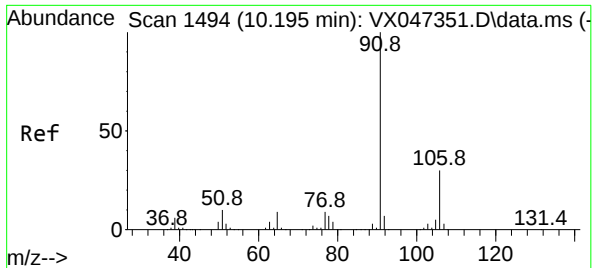
164 100

166 125.7 100.3 150.5

129 86.9 77.7 116.5

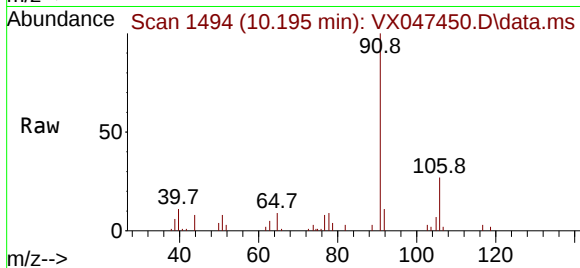
131 96.7 74.8 112.2





#67  
Ethyl Benzene  
Concen: 0.660 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX047450.D  
Acq: 20 Aug 2025 17:57

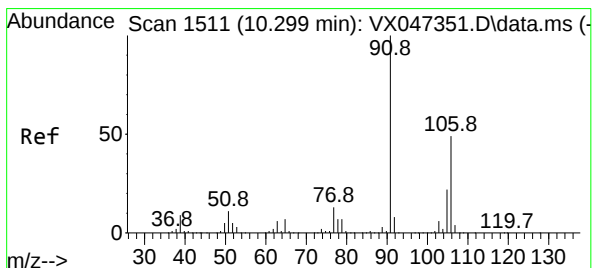
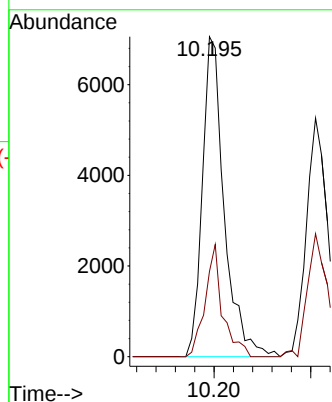
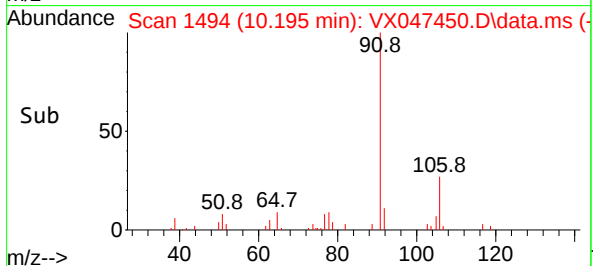
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325



Tgt Ion: 91 Resp: 1109  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.4 36.6

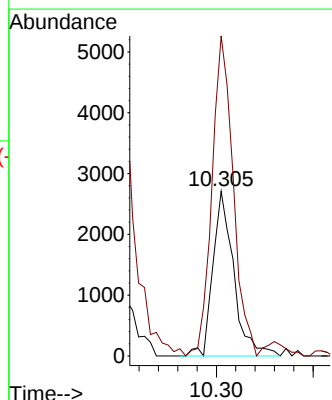
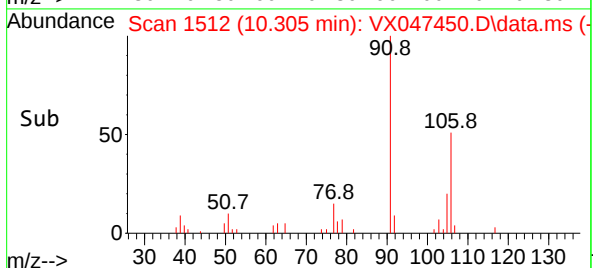
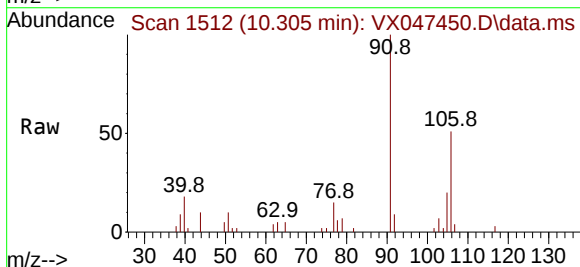
Manual Integrations  
APPROVED

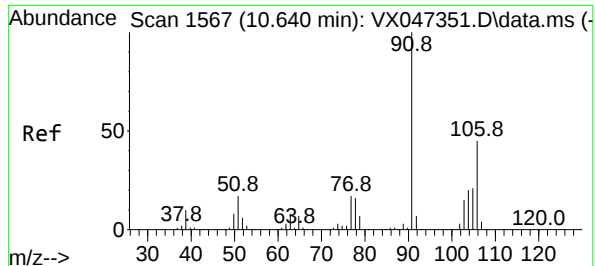
Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025



#68  
m/p-Xylenes  
Concen: 0.647 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.006 min  
Lab File: VX047450.D  
Acq: 20 Aug 2025 17:57

Tgt Ion:106 Resp: 4057  
Ion Ratio Lower Upper  
106 100  
91 197.8 164.7 247.1





#69

o-Xylene

Concen: 0.338 ug/l

RT: 10.646 min Scan# 1567

Delta R.T. 0.006 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion:106 Resp: 204

Ion Ratio Lower Upper

106 100

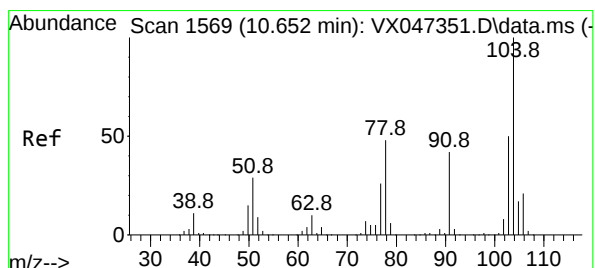
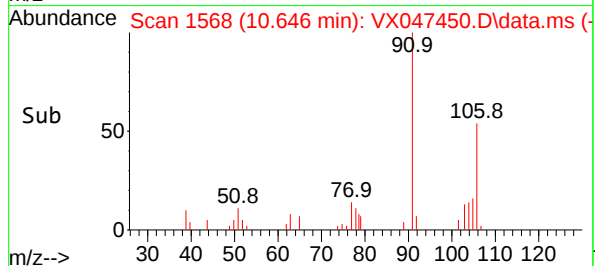
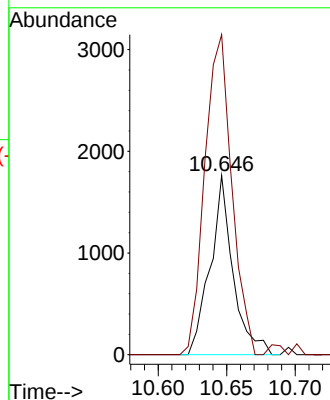
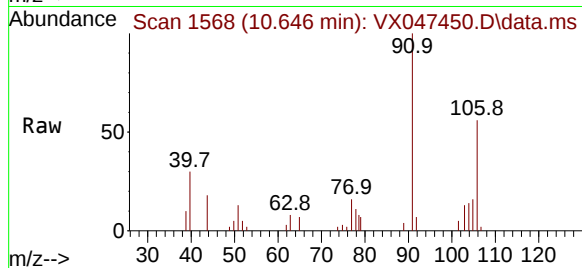
91 211.0 110.6 331.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#70

Styrene

Concen: 0.314 ug/l

RT: 10.665 min Scan# 1571

Delta R.T. 0.012 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

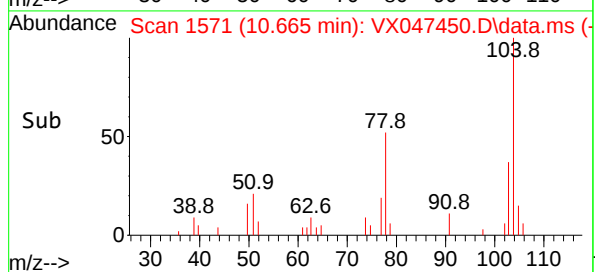
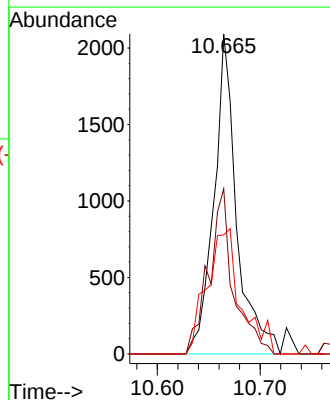
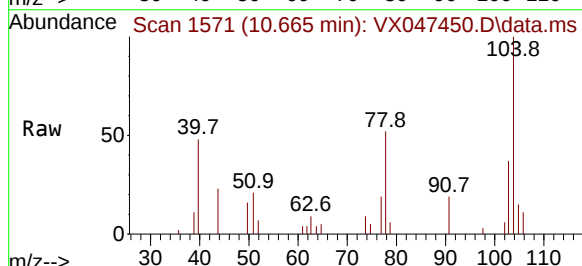
Tgt Ion:104 Resp: 3204

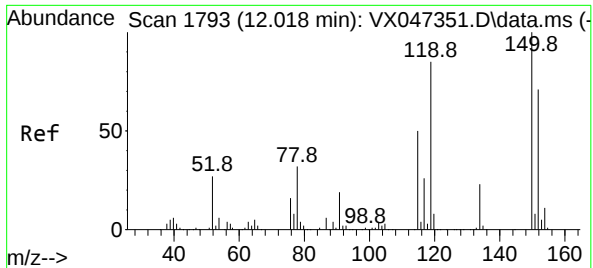
Ion Ratio Lower Upper

104 100

78 56.1 41.8 62.8

103 58.0 43.6 65.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047450.D

Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325

Tgt Ion:152 Resp: 20689

Ion Ratio Lower Upper

152 100

115 61.6 44.6 133.8

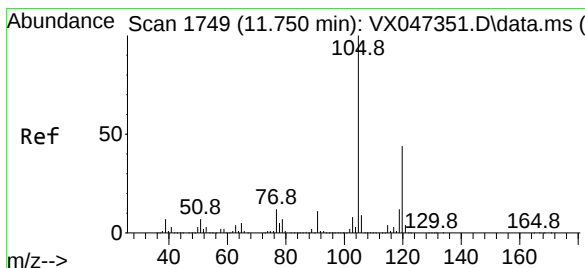
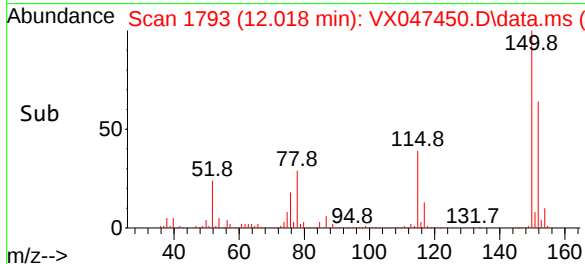
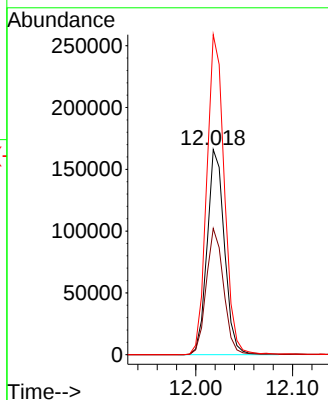
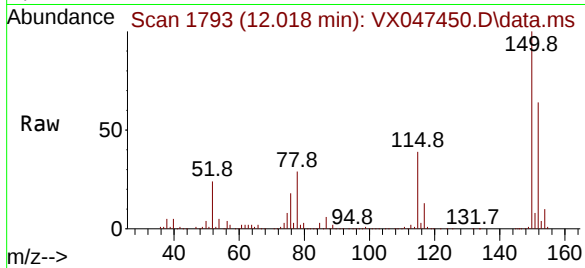
150 158.0 0.0 349.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.329 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX047450.D

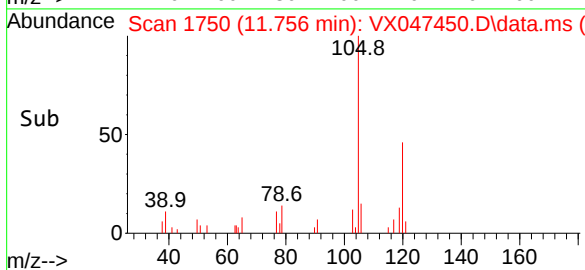
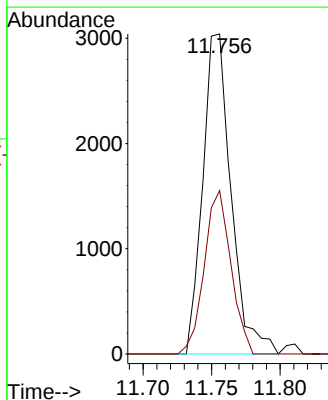
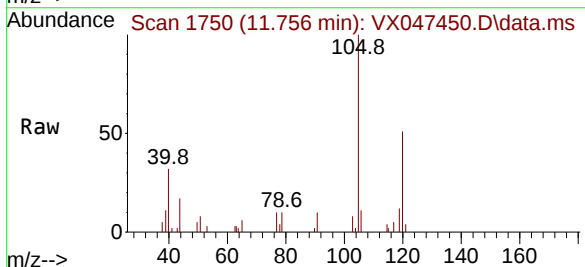
Acq: 20 Aug 2025 17:57

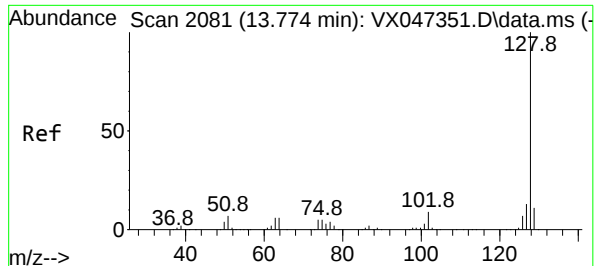
Tgt Ion:105 Resp: 4379

Ion Ratio Lower Upper

105 100

120 47.8 21.9 65.7





#95

Naphthalene

Concen: 15.573 ug/l

RT: 13.774 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX047450.D

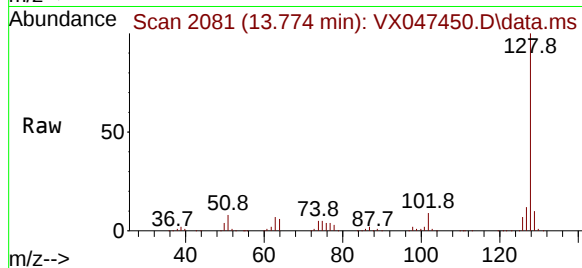
Acq: 20 Aug 2025 17:57

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325



Tgt Ion:128 Resp: 21389

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

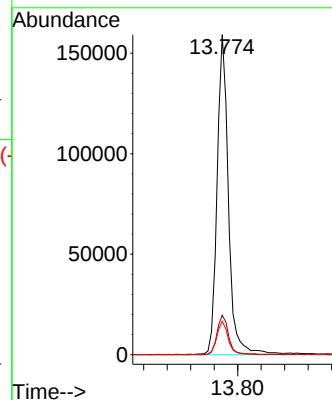
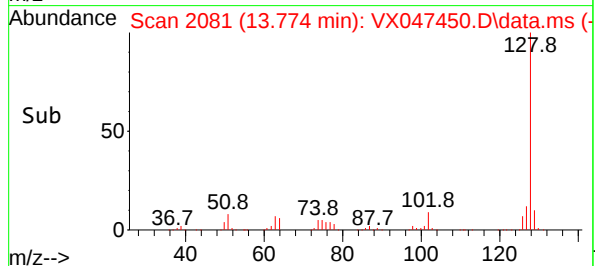
129 10.4 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047451.D  
 Acq On : 20 Aug 2025 18:18  
 Operator : JC/MD  
 Sample : Q2878-01DL 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-18B-57.5-081325DL

Quant Time: Aug 21 01:37:46 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/21/2025  
 Supervised By : Mahesh Dadoda 08/22/2025

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 5.568          | 168  | 215725              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.769          | 114  | 432331              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 427580              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018         | 152  | 219266              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.970          | 65   | 168273              | 55.735 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 111.480% |        |        |          |
| 35) Dibromofluoromethane     | 5.403          | 113  | 140124              | 49.940 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 99.880%  |        |        |          |
| 50) Toluene-d8               | 8.653          | 98   | 502298              | 50.085 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 100.160% |        |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 211301              | 57.095 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 114.180% |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 4) Vinyl Chloride            | 1.392          | 62   | 15518               | 4.998  | ug/l # | 55       |
| 9) 1,1,2-Trichlorotrifluo... | 2.355          | 101  | 921                 | 0.346  | ug/l   | 88       |
| 12) 1,1-Dichloroethene       | 2.337          | 96   | 2062                | 0.759  | ug/l   | 98       |
| 16) Acetone                  | 2.398          | 43   | 5950                | 5.243  | ug/l   | 91       |
| 17) Carbon Disulfide         | 2.532          | 76   | 4859                | 0.593  | ug/l   | 98       |
| 20) Methylene Chloride       | 2.812          | 84   | 959                 | 0.319  | ug/l # | 78       |
| 21) trans-1,2-Dichloroethene | 3.117          | 96   | 3018                | 1.047  | ug/l # | 87       |
| 24) 1,1-Dichloroethane       | 3.629          | 63   | 3602                | 0.683  | ug/l # | 93       |
| 27) cis-1,2-Dichloroethene   | 4.507          | 96   | 273342              | 81.407 | ug/l   | 89       |
| 29) Tetrahydrofuran          | 5.056          | 42   | 2399m               | 2.497  | ug/l   |          |
| 40) Benzene                  | 6.062          | 78   | 8309                | 0.627  | ug/l   | 94       |
| 44) Trichloroethene          | 7.135          | 130  | 49879               | 14.693 | ug/l   | 94       |
| 52) Toluene                  | 8.726          | 92   | 4849                | 0.592  | ug/l   | 91       |
| 67) Ethyl Benzene            | 10.201         | 91   | 7353                | 0.420  | ug/l   | 100      |
| 68) m/p-Xylenes              | 10.305         | 106  | 2534                | 0.389  | ug/l   | 93       |
| 95) Naphthalene              | 13.774         | 128  | 140385              | 9.645  | ug/l   | 100      |
| -----                        |                |      |                     |        |        |          |

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

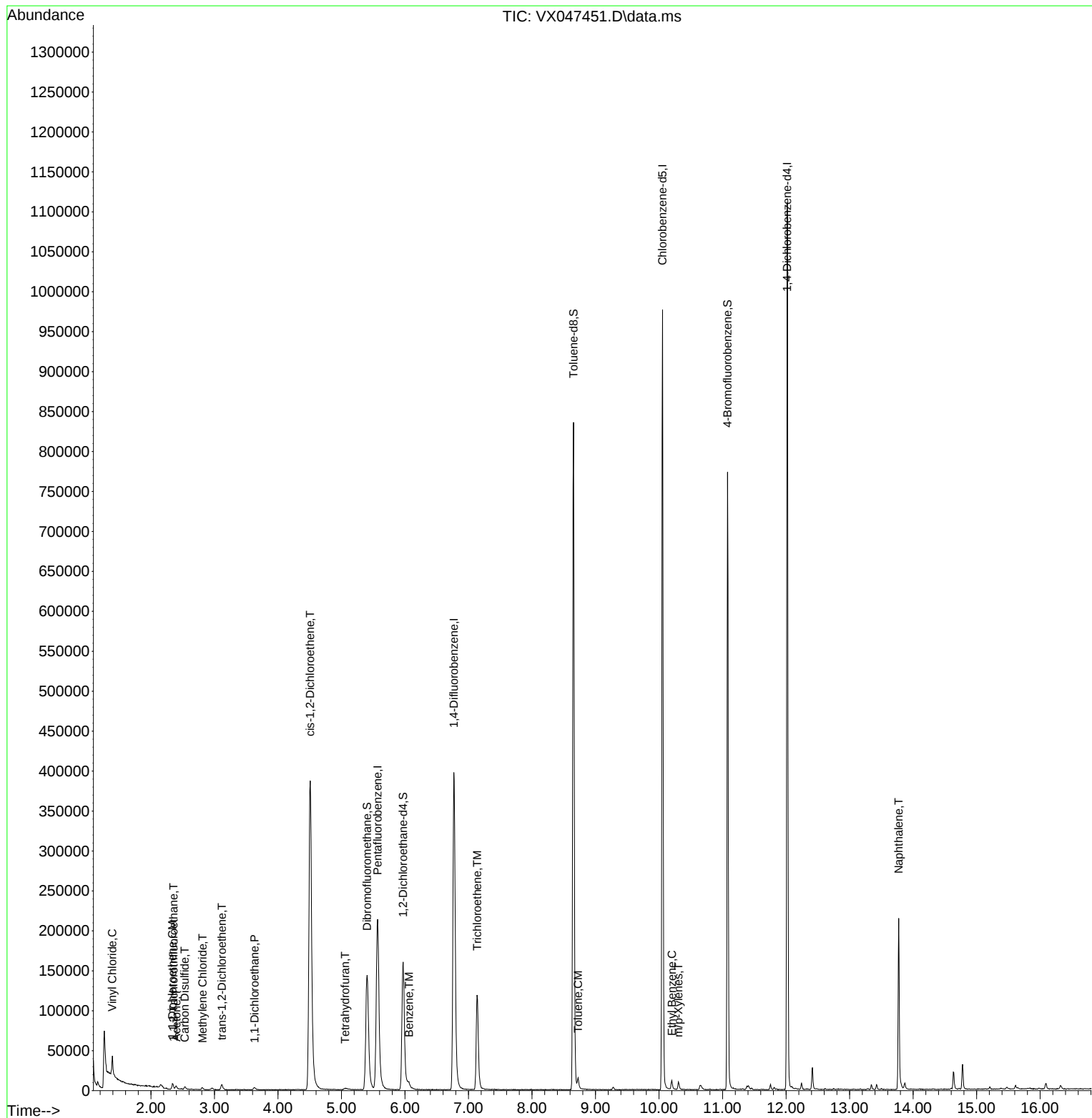
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
Data File : VX047451.D  
Acq On : 20 Aug 2025 18:18  
Operator : JC/MD  
Sample : Q2878-01DL 10X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 26 Sample Multiplier: 1

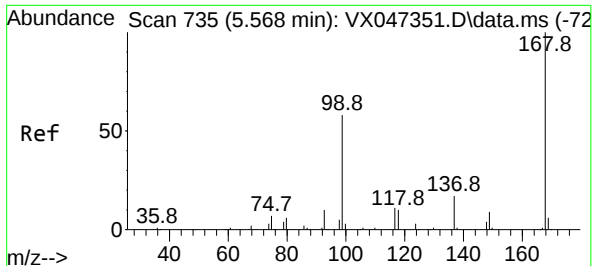
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325DL

Quant Time: Aug 21 01:37:46 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

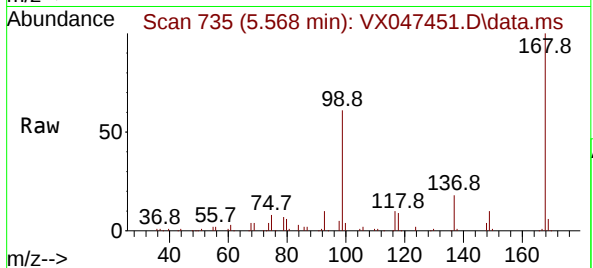
Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.568 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX047451.D  
Acq: 20 Aug 2025 18:18

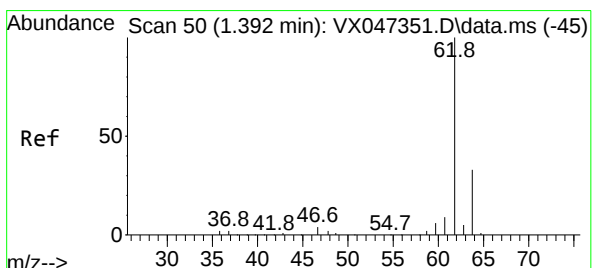
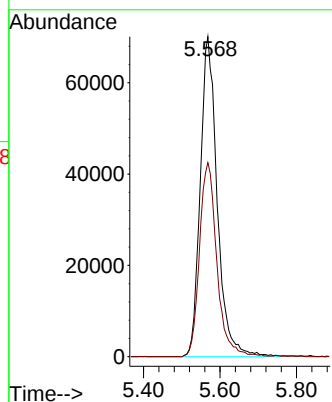
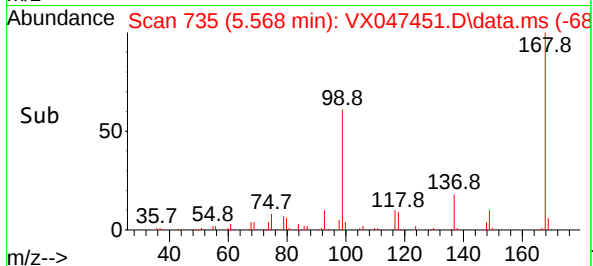
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325DL



Tgt Ion: 168 Resp: 21572  
Ion Ratio Lower Upper  
168 100  
99 60.7 47.9 71.9

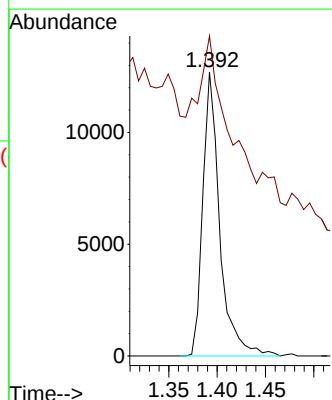
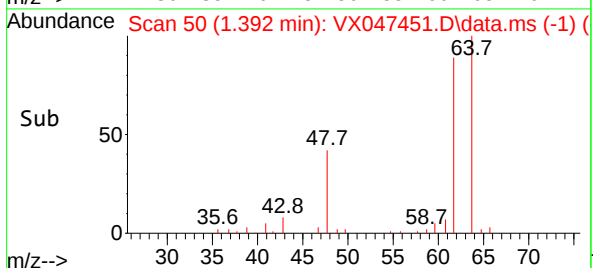
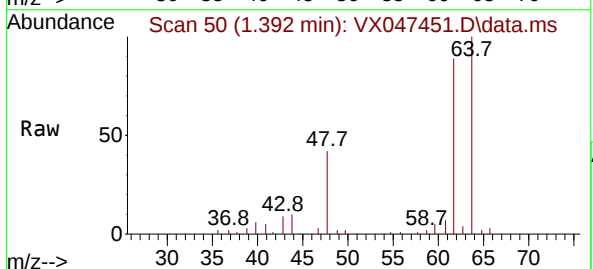
Manual Integrations  
APPROVED

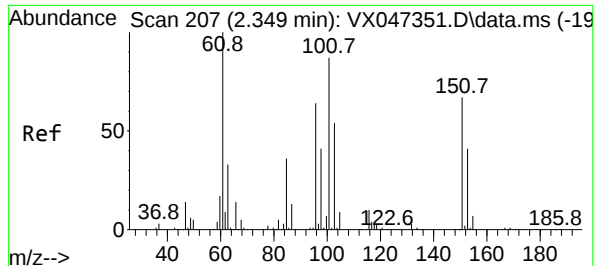
Reviewed By : John Carlone 08/21/2025  
Supervised By : Mahesh Dadoda 08/22/2025



#4  
Vinyl Chloride  
Concen: 4.998 ug/l  
RT: 1.392 min Scan# 50  
Delta R.T. 0.000 min  
Lab File: VX047451.D  
Acq: 20 Aug 2025 18:18

Tgt Ion: 62 Resp: 15518  
Ion Ratio Lower Upper  
62 100  
64 58.7 26.5 39.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.346 ug/l

RT: 2.355 min Scan# 208

Delta R.T. 0.006 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325DL

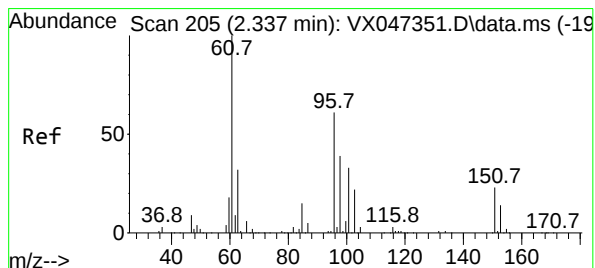
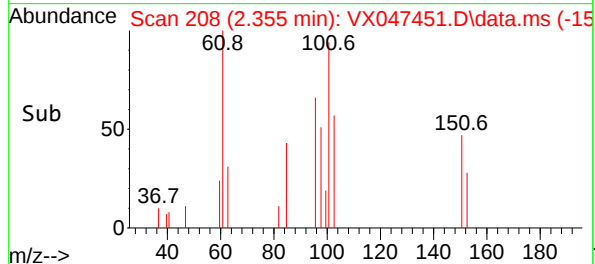
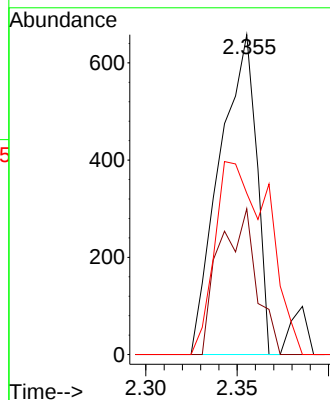
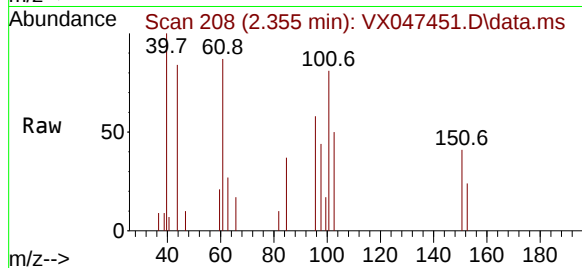
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 92    |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 46.0  | 34.3  | 51.5  |
| 151      | 87.9  | 59.2  | 88.8  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#12

1,1-Dichloroethene

Concen: 0.759 ug/l

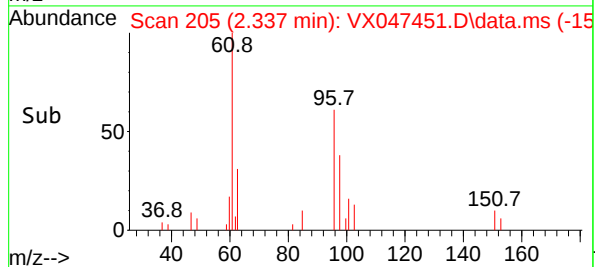
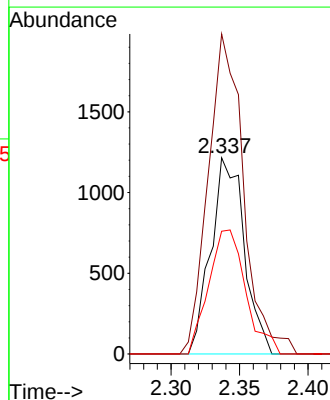
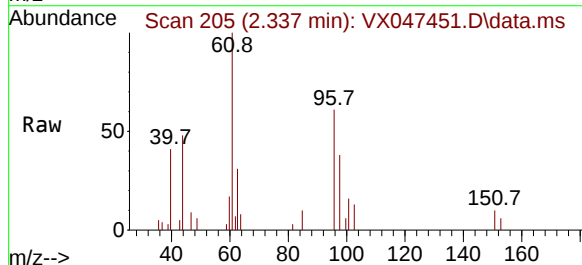
RT: 2.337 min Scan# 205

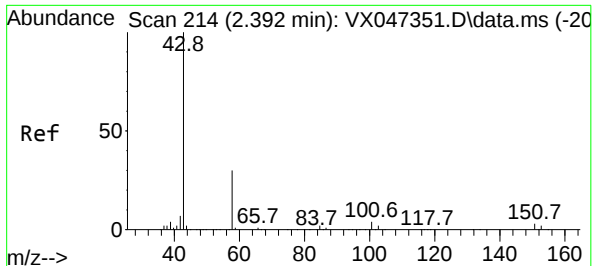
Delta R.T. 0.000 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2062  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 163.1 | 132.2 | 198.2 |
| 98       | 62.6  | 51.2  | 76.8  |





#16

Acetone

Concen: 5.243 ug/l

RT: 2.398 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325DL

Tgt Ion: 43 Resp: 5950

Ion Ratio Lower Upper

43

100

58

36.2

24.8

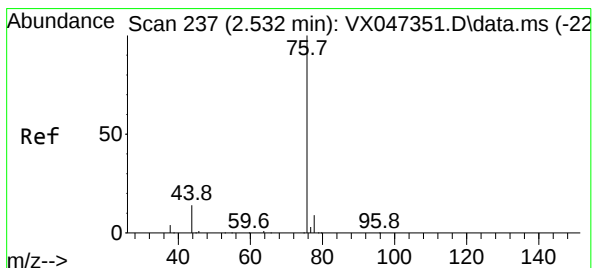
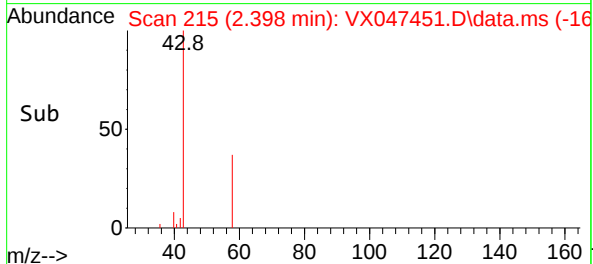
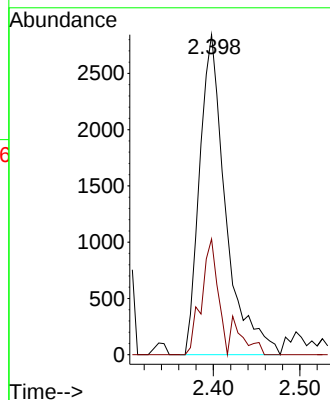
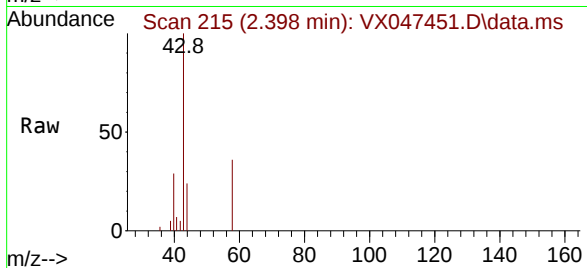
37.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#17

Carbon Disulfide

Concen: 0.593 ug/l

RT: 2.532 min Scan# 237

Delta R.T. 0.000 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

Tgt Ion: 76 Resp: 4859

Ion Ratio Lower Upper

76

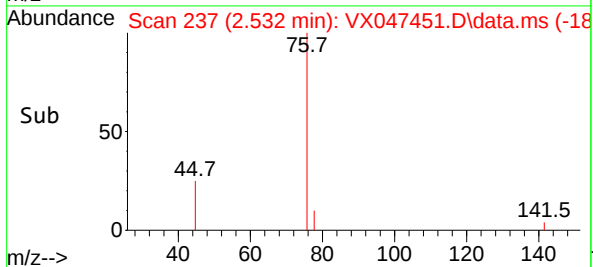
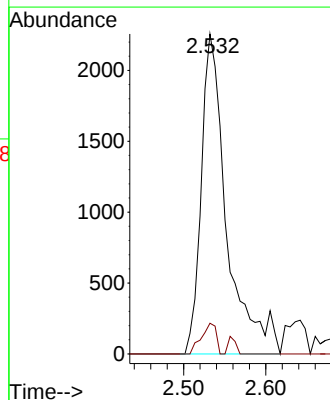
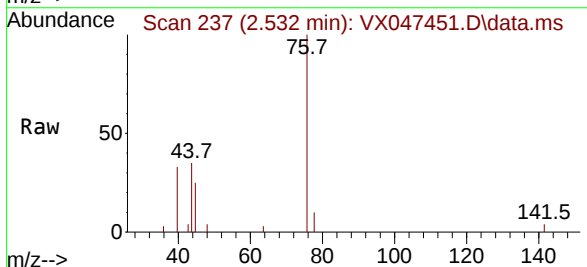
100

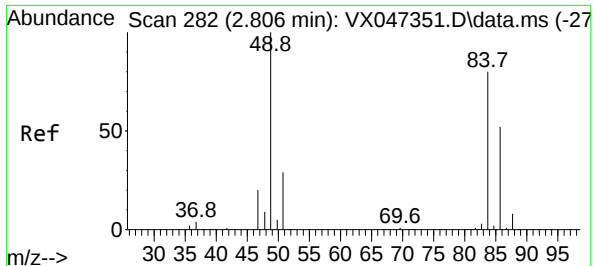
78

9.6

7.2

10.8





#20

Methylene Chloride

Concen: 0.319 ug/l

RT: 2.812 min Scan# 282

Delta R.T. 0.006 min

Lab File: VX047451.D

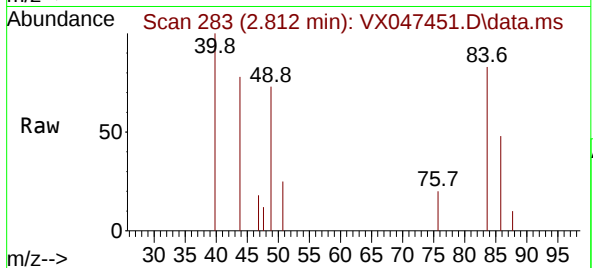
Acq: 20 Aug 2025 18:18

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325DL



Tgt Ion: 84 Resp: 959

Ion Ratio Lower Upper

84 100

49 88.2 100.1 150.1

51 30.3 29.5 44.3

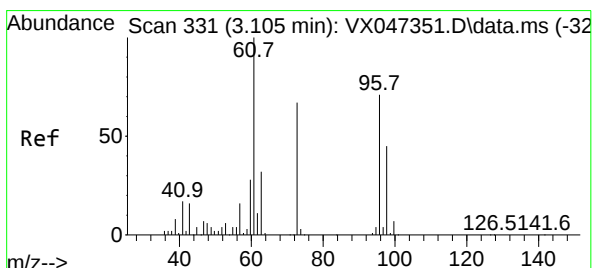
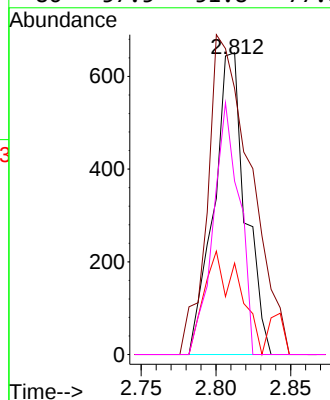
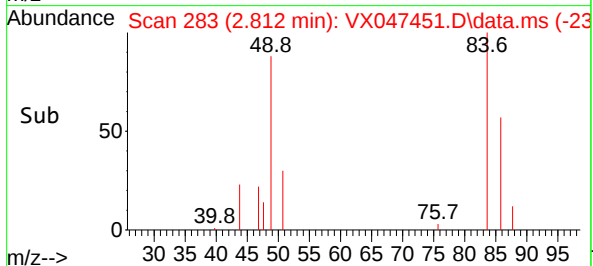
86 57.5 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#21

trans-1,2-Dichloroethene

Concen: 1.047 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.012 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

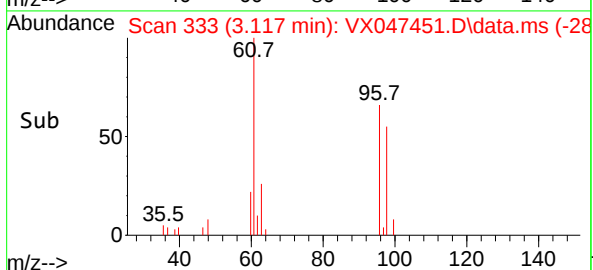
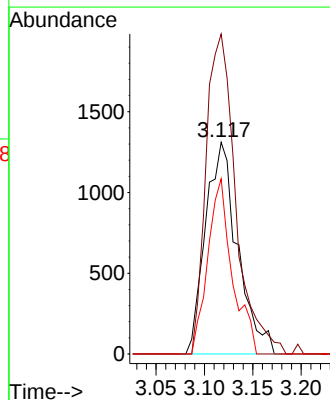
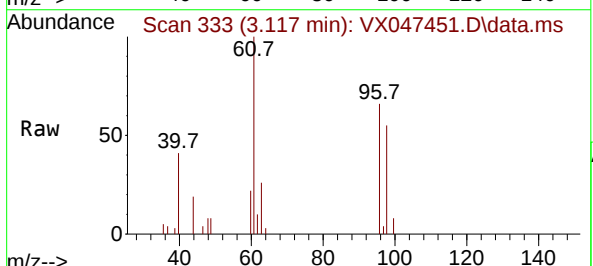
Tgt Ion: 96 Resp: 3018

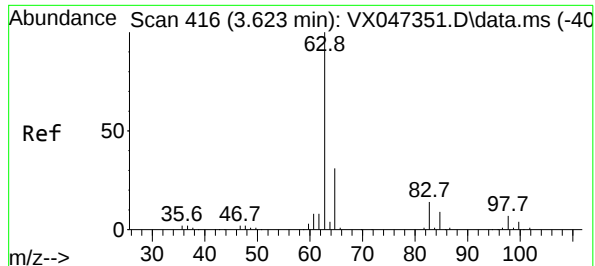
Ion Ratio Lower Upper

96 100

61 151.1 112.6 169.0

98 82.8 50.9 76.3





#24

1,1-Dichloroethane

Concen: 0.683 ug/l

RT: 3.629 min Scan# 416

Delta R.T. 0.006 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

Instrument :

MSVOA\_X

ClientSampleId :

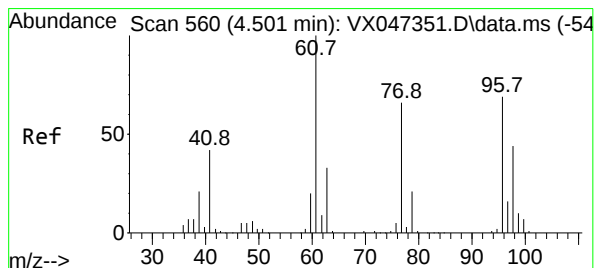
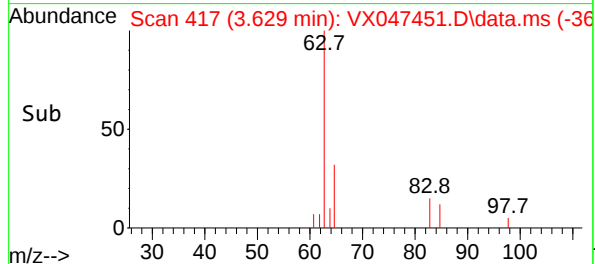
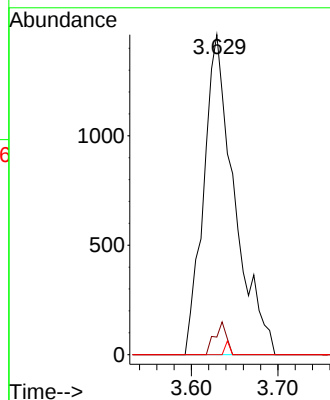
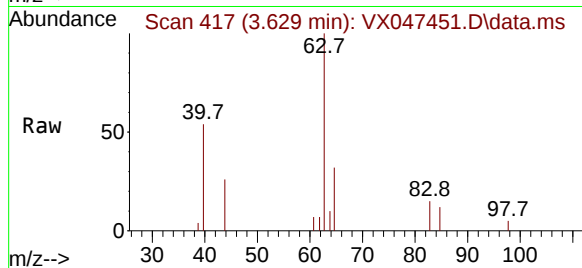
MW-18B-57.5-081325DL

|           |       |       |     |
|-----------|-------|-------|-----|
| Tgt Ion:  | 63    | Resp: | 360 |
| Ion Ratio | Lower | Upper |     |
| 63        | 100   |       |     |
| 98        | 5.5   | 3.3   | 9.9 |
| 100       | 0.0   | 2.1   | 6.3 |

Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#27

cis-1,2-Dichloroethene

Concen: 81.407 ug/l

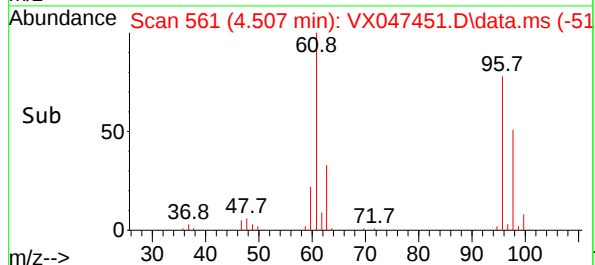
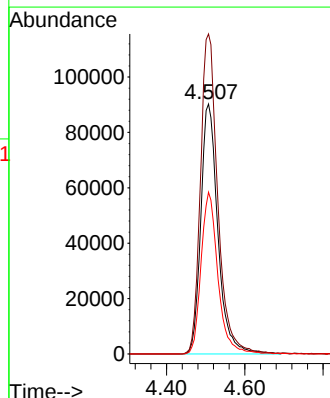
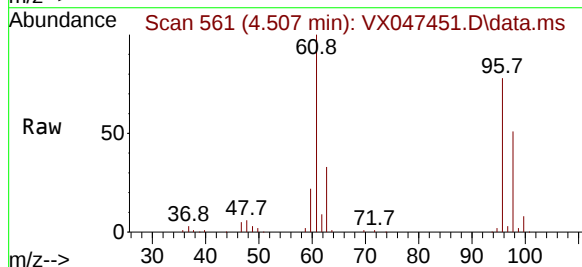
RT: 4.507 min Scan# 561

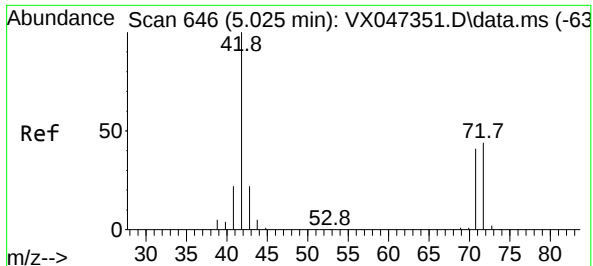
Delta R.T. 0.006 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 273342 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 129.7 | 0.0   | 296.6  |
| 98        | 63.7  | 0.0   | 130.4  |





#29

Tetrahydrofuran

Concen: 2.497 ug/l m

RT: 5.056 min Scan# 6

Delta R.T. 0.031 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

Instrument :

MSVOA\_X

ClientSampleId :

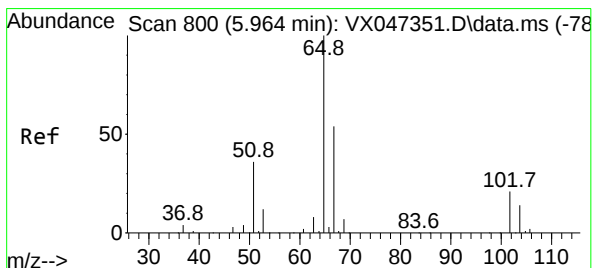
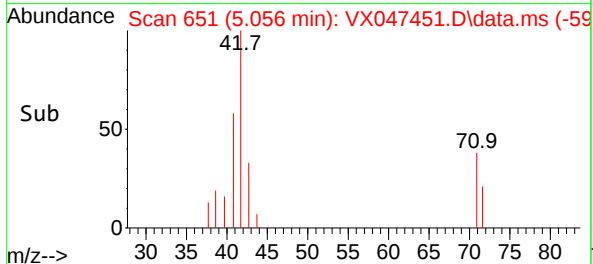
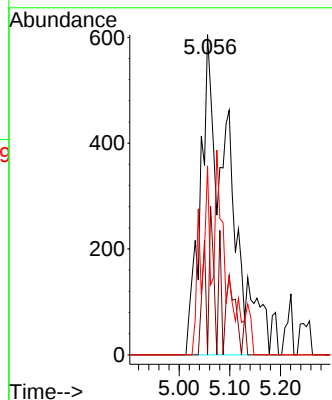
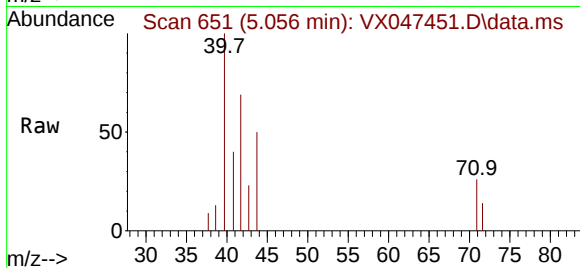
MW-18B-57.5-081325DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 239   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 6.8   | 34.6  | 51.8  |
| 71       | 17.4  | 32.6  | 49.0  |

Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#33

1,2-Dichloroethane-d4

Concen: 55.735 ug/l

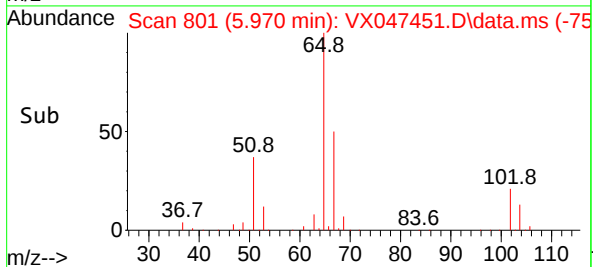
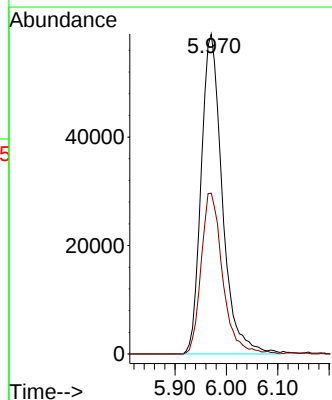
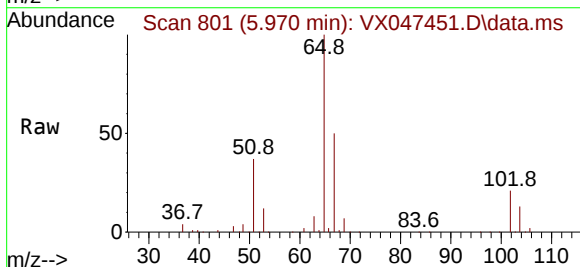
RT: 5.970 min Scan# 801

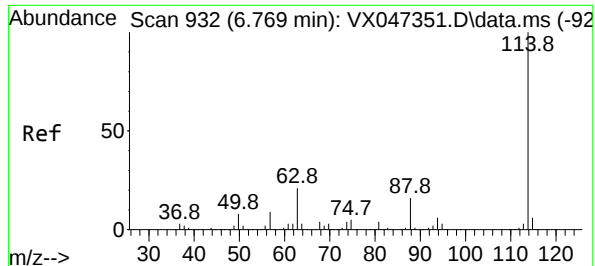
Delta R.T. 0.006 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 168273 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 51.2  | 0.0   | 106.0  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325DL

Tgt Ion:114 Resp: 43233

Ion Ratio Lower Upper

114 100

63 22.3 0.0 42.4

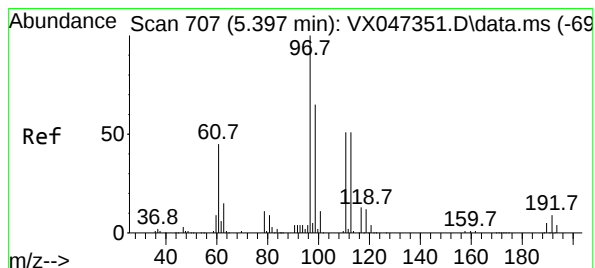
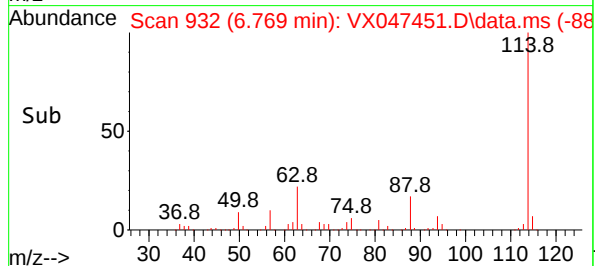
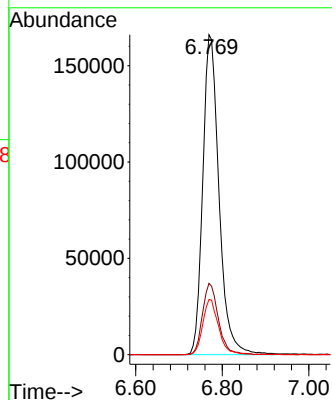
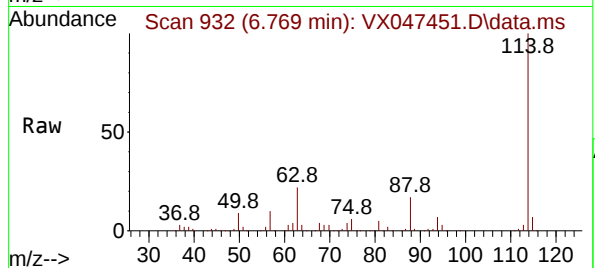
88 17.2 0.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#35

Dibromofluoromethane

Concen: 49.940 ug/l

RT: 5.403 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

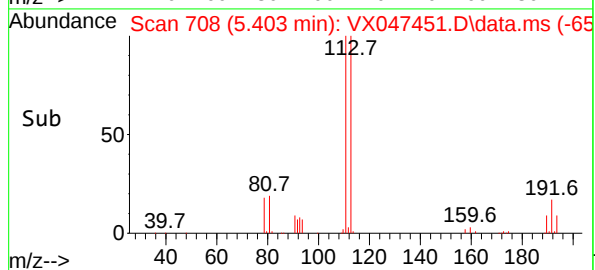
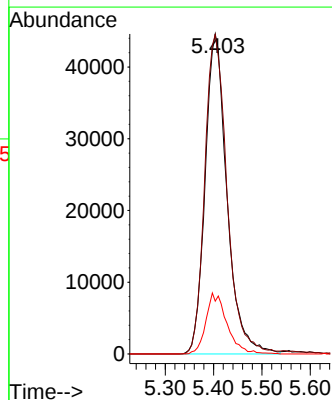
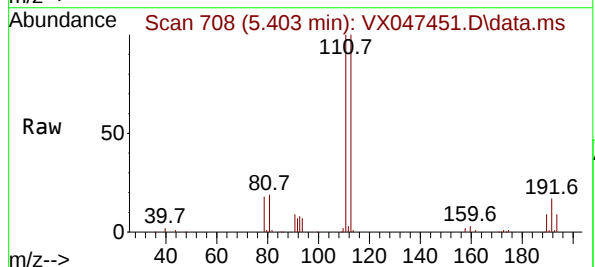
Tgt Ion:113 Resp: 140124

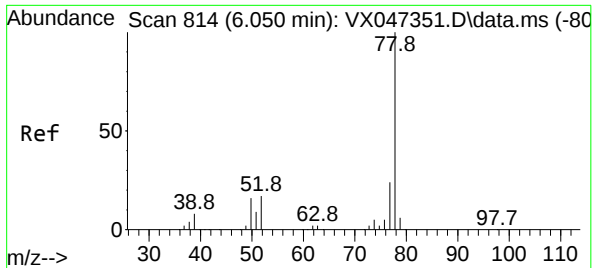
Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.2

192 18.4 14.1 21.1





#40

Benzene

Concen: 0.627 ug/l

RT: 6.062 min Scan# 814

Delta R.T. 0.012 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325DL

Tgt Ion: 78 Resp: 8309

Ion Ratio Lower Upper

78 100

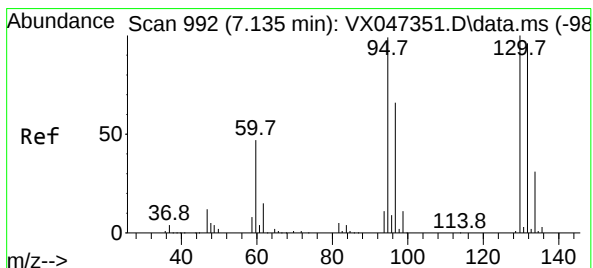
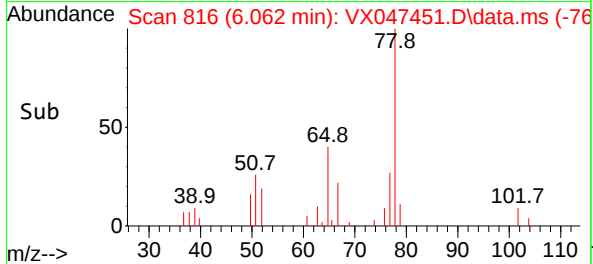
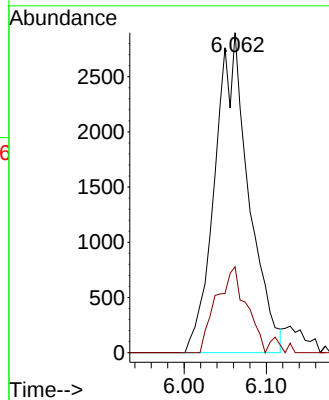
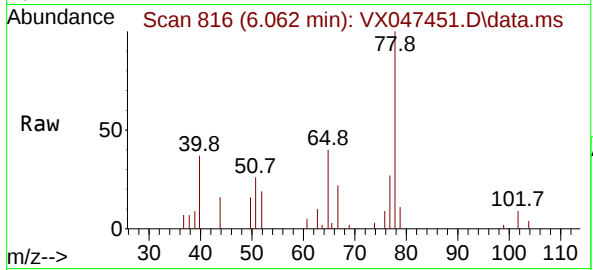
77 26.8 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#44

Trichloroethene

Concen: 14.693 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX047451.D

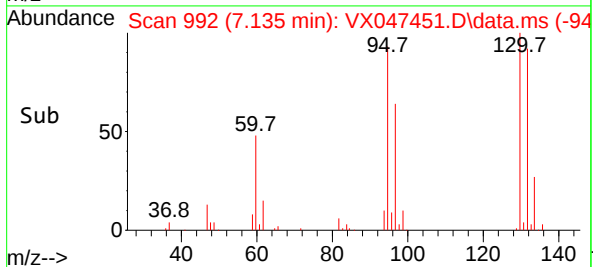
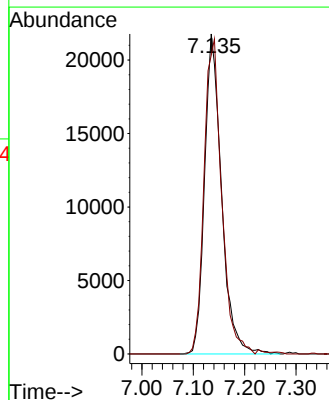
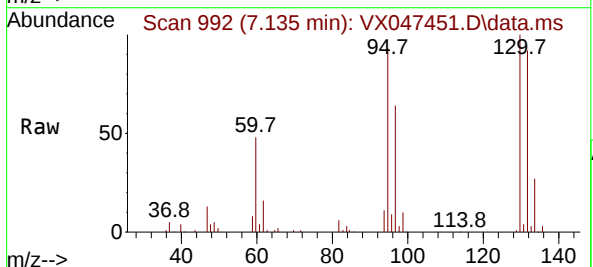
Acq: 20 Aug 2025 18:18

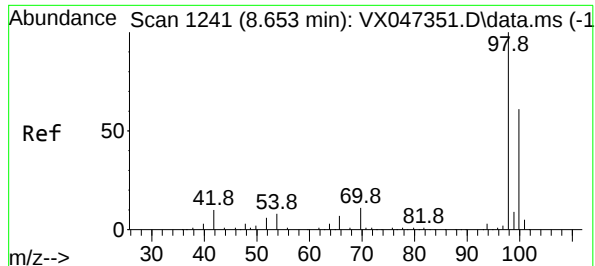
Tgt Ion:130 Resp: 49879

Ion Ratio Lower Upper

130 100

95 93.4 0.0 198.6





#50

Toluene-d8

Concen: 50.085 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047451.D

Acq: 20 Aug 2025 18:18

Instrument :

MSVOA\_X

ClientSampleId :

MW-18B-57.5-081325DL

Tgt Ion: 98 Resp: 502298

Ion Ratio Lower Upper

98 100

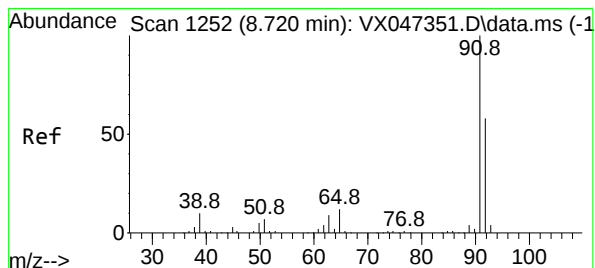
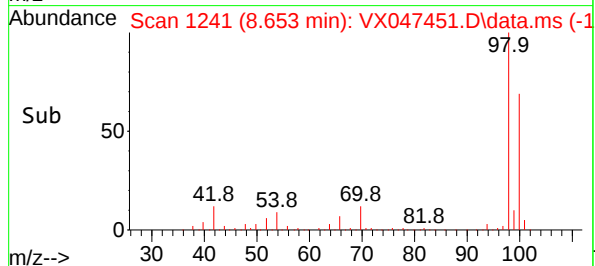
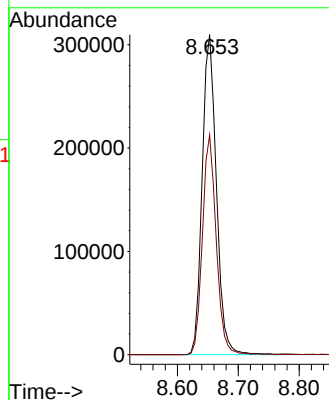
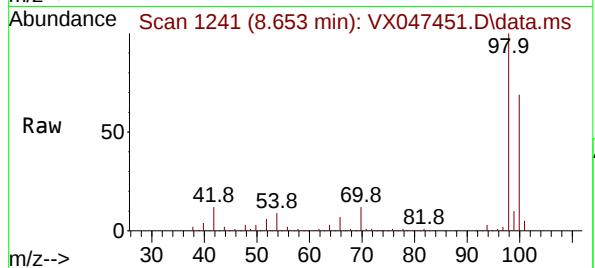
100 66.6 53.9 80.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/21/2025

Supervised By :Mahesh Dadoda 08/22/2025



#52

Toluene

Concen: 0.592 ug/l

RT: 8.726 min Scan# 1253

Delta R.T. 0.006 min

Lab File: VX047451.D

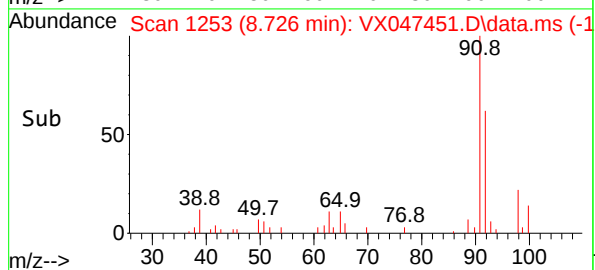
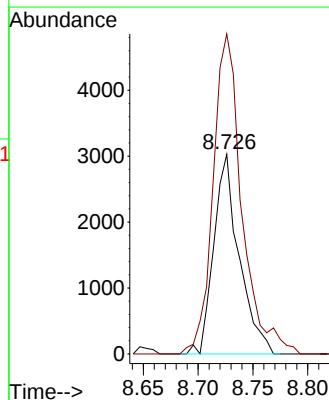
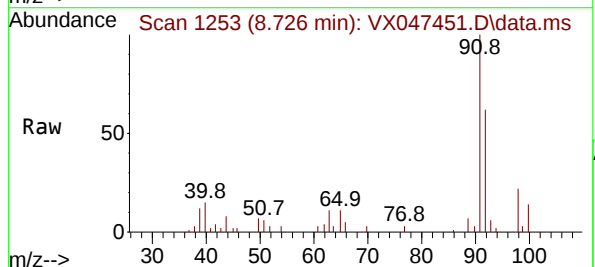
Acq: 20 Aug 2025 18:18

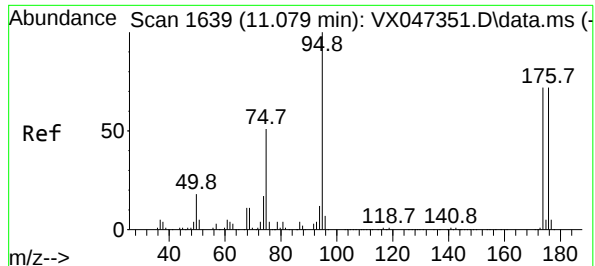
Tgt Ion: 92 Resp: 4849

Ion Ratio Lower Upper

92 100

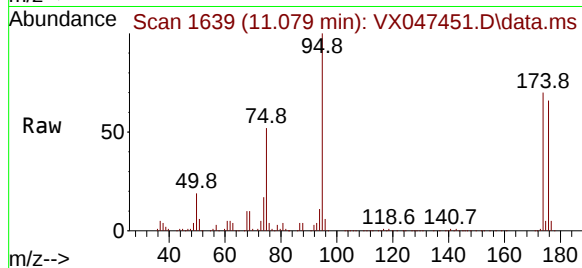
91 182.9 136.3 204.5





#62  
4-Bromofluorobenzene  
Concen: 57.095 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX047451.D  
Acq: 20 Aug 2025 18:18

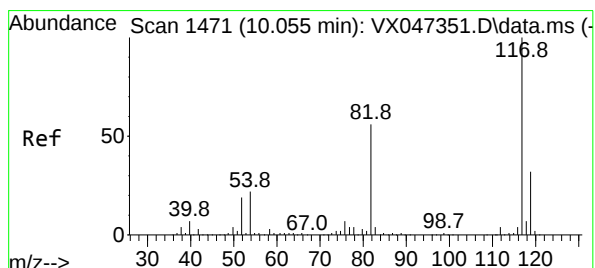
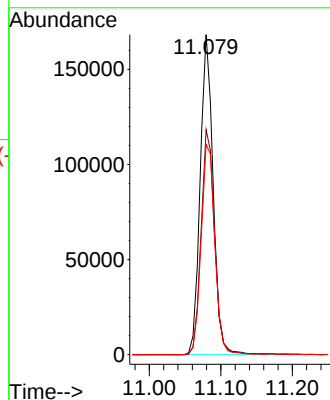
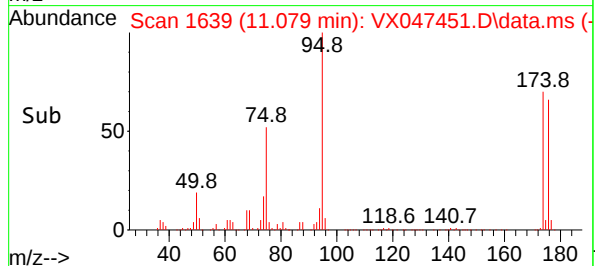
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325DL



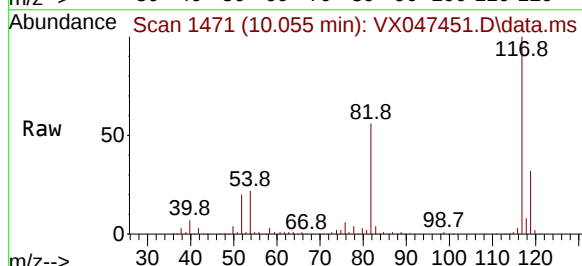
Tgt Ion: 95 Resp: 21130  
Ion Ratio Lower Upper  
95 100  
174 73.3 0.0 148.0  
176 69.5 0.0 145.4

Manual Integrations  
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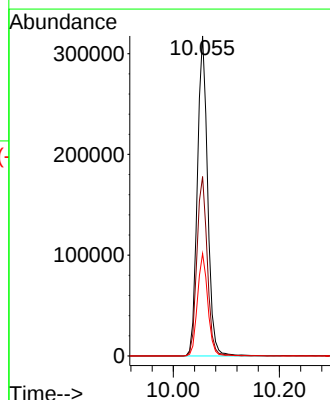
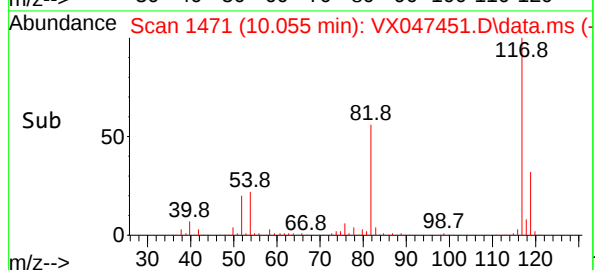
Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025

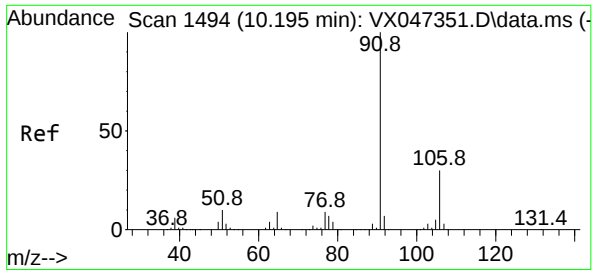


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX047451.D  
Acq: 20 Aug 2025 18:18



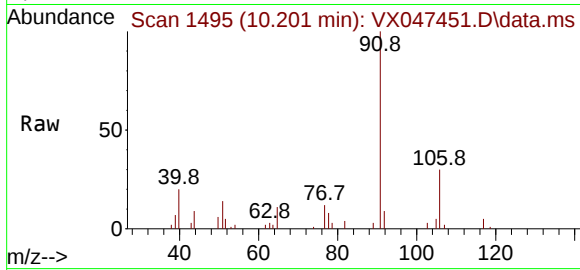
Tgt Ion:117 Resp: 427580  
Ion Ratio Lower Upper  
117 100  
82 56.0 45.0 67.4  
119 32.0 25.8 38.8





#67  
Ethyl Benzene  
Concen: 0.420 ug/l  
RT: 10.201 min Scan# 1495  
Delta R.T. 0.006 min  
Lab File: VX047451.D  
Acq: 20 Aug 2025 18:18

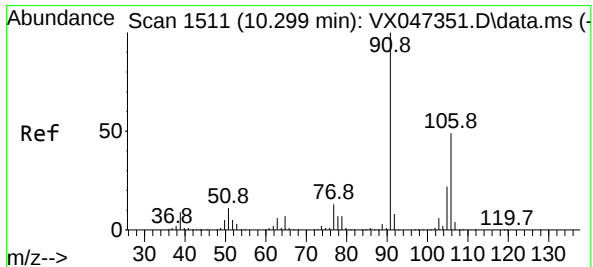
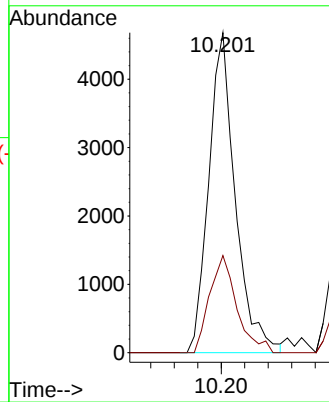
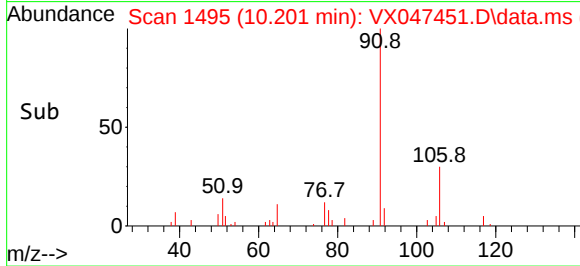
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325DL



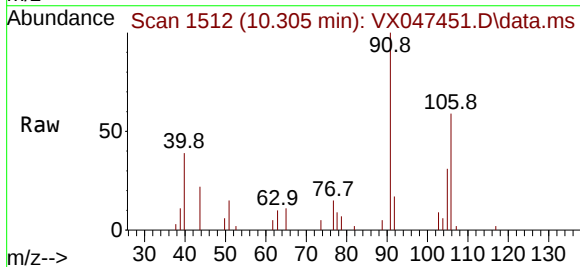
Tgt Ion: 91 Resp: 735  
Ion Ratio Lower Upper  
91 100  
106 30.4 24.4 36.6

Manual Integrations  
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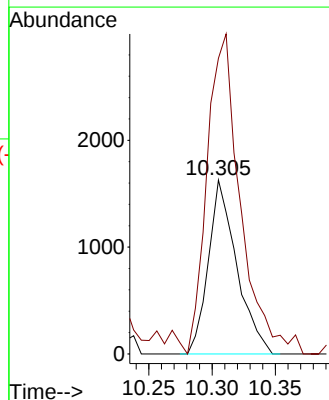
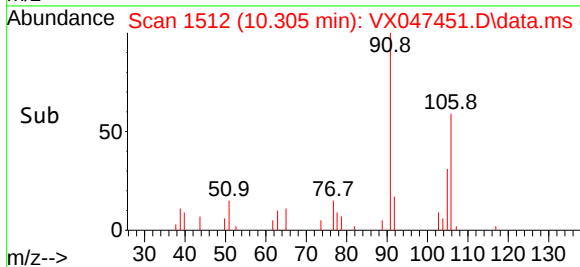
Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025

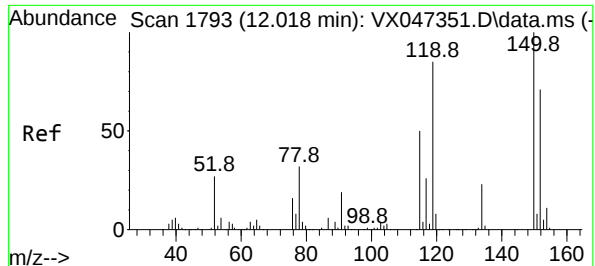


#68  
m/p-Xylenes  
Concen: 0.389 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.006 min  
Lab File: VX047451.D  
Acq: 20 Aug 2025 18:18



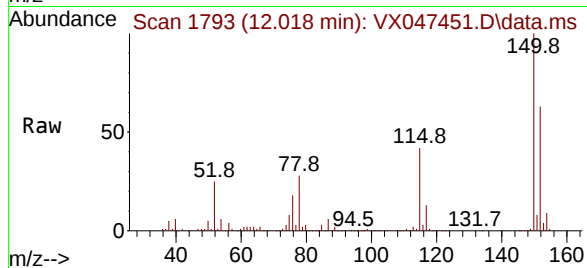
Tgt Ion:106 Resp: 2534  
Ion Ratio Lower Upper  
106 100  
91 216.9 164.7 247.1





#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX047451.D  
Acq: 20 Aug 2025 18:18

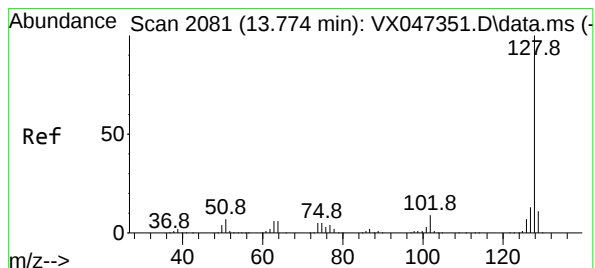
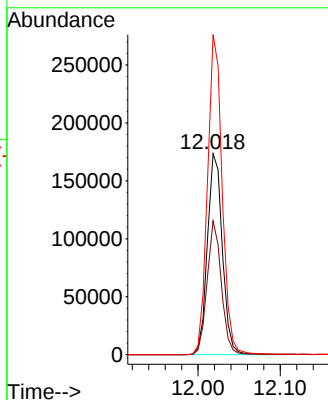
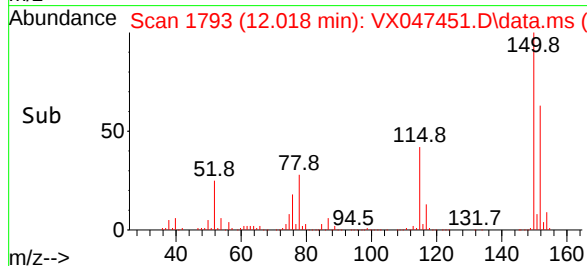
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-18B-57.5-081325DL



Tgt Ion:152 Resp: 219260  
Ion Ratio Lower Upper  
152 100  
115 63.4 44.6 133.8  
150 156.6 0.0 349.8

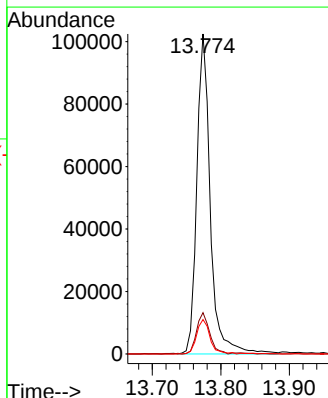
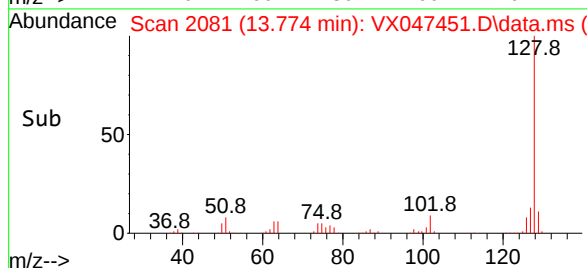
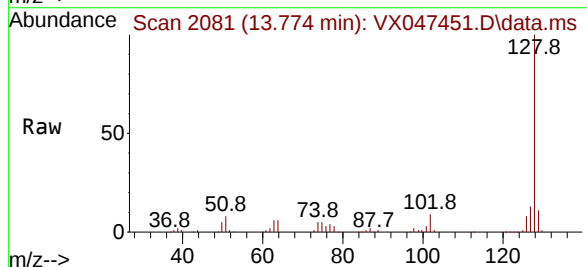
Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025



#95  
Naphthalene  
Concen: 9.645 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX047451.D  
Acq: 20 Aug 2025 18:18

Tgt Ion:128 Resp: 140385  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.1 15.1  
129 10.7 8.7 13.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047452.D  
 Acq On : 20 Aug 2025 18:40  
 Operator : JC/MD  
 Sample : Q2878-05 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-11B-37.5-081425

Quant Time: Aug 21 01:38:17 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

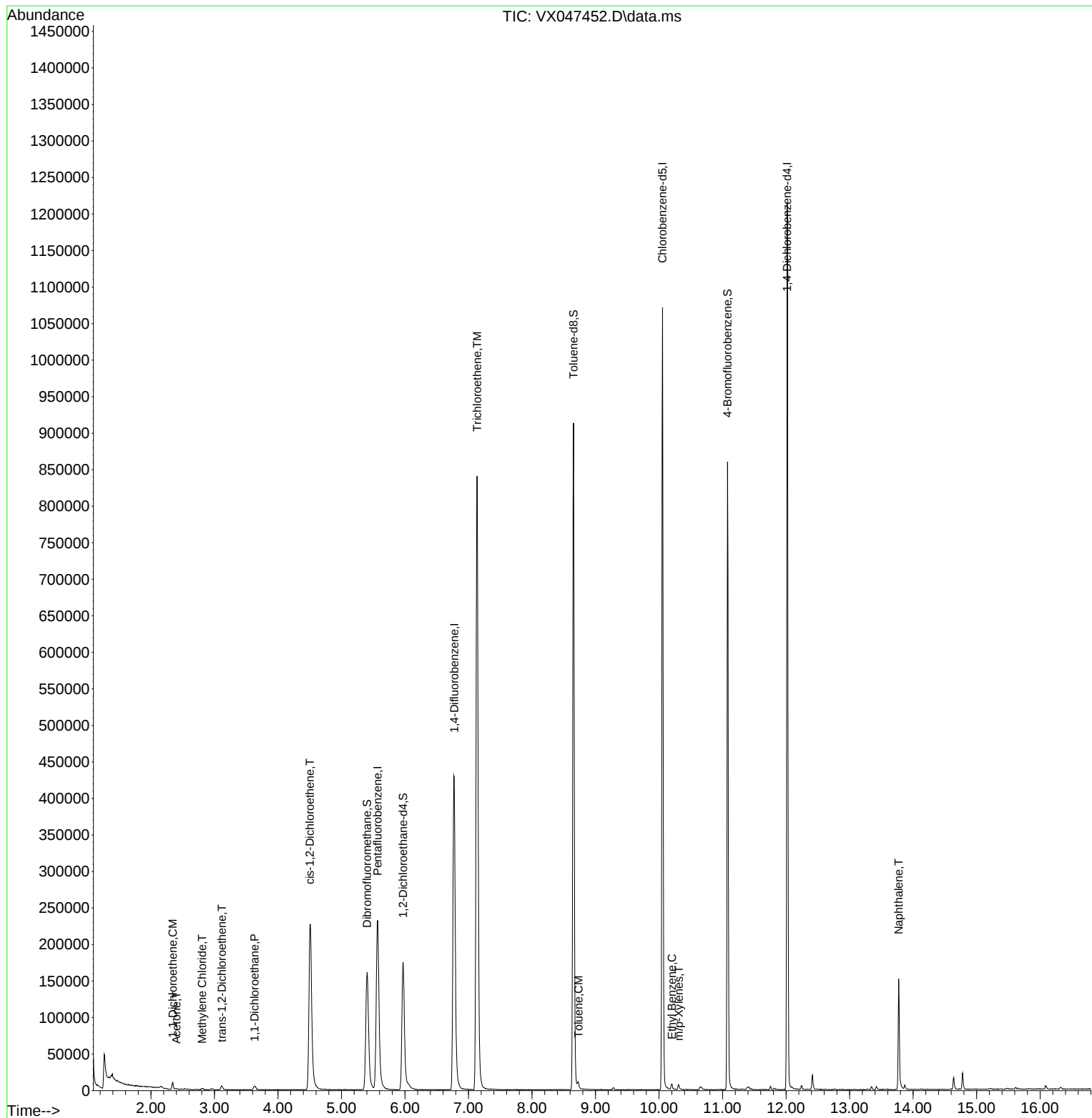
| Compound                     | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                        |           |       |          |          |            |          |
| Internal Standards           |           |       |          |          |            |          |
| 1) Pentafluorobenzene        | 5.568     | 168   | 233413   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.775     | 114   | 475099   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5         | 10.055    | 117   | 465473   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.018    | 152   | 242657   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4    | 5.970     | 65    | 184033   | 56.336   | ug/l       | 0.00     |
| Spiked Amount                | 50.000    | Range | 78 - 117 | Recovery | = 112.680% |          |
| 35) Dibromofluoromethane     | 5.403     | 113   | 155611   | 50.467   | ug/l       | 0.00     |
| Spiked Amount                | 50.000    | Range | 75 - 124 | Recovery | = 100.940% |          |
| 50) Toluene-d8               | 8.653     | 98    | 544870   | 49.439   | ug/l       | 0.00     |
| Spiked Amount                | 50.000    | Range | 92 - 112 | Recovery | = 98.880%  |          |
| 62) 4-Bromofluorobenzene     | 11.079    | 95    | 231003   | 56.800   | ug/l       | 0.00     |
| Spiked Amount                | 50.000    | Range | 83 - 123 | Recovery | = 113.600% |          |
| Target Compounds             |           |       |          |          |            |          |
|                              |           |       |          |          | Qvalue     |          |
| 12) 1,1-Dichloroethene       | 2.343     | 96    | 3613     | 1.229    | ug/l #     | 90       |
| 16) Acetone                  | 2.398     | 43    | 1834     | 1.494    | ug/l       | 92       |
| 20) Methylene Chloride       | 2.806     | 84    | 922      | 0.284    | ug/l       | 89       |
| 21) trans-1,2-Dichloroethene | 3.117     | 96    | 2574     | 0.825    | ug/l       | 96       |
| 24) 1,1-Dichloroethane       | 3.629     | 63    | 7002     | 1.228    | ug/l #     | 93       |
| 27) cis-1,2-Dichloroethene   | 4.501     | 96    | 163315   | 44.953   | ug/l       | 89       |
| 44) Trichloroethene          | 7.135     | 130   | 343338   | 92.036   | ug/l       | 96       |
| 52) Toluene                  | 8.732     | 92    | 3358     | 0.373    | ug/l       | 84       |
| 67) Ethyl Benzene            | 10.201    | 91    | 5646     | 0.297    | ug/l #     | 85       |
| 68) m/p-Xylenes              | 10.311    | 106   | 2227     | 0.314    | ug/l       | 87       |
| 95) Naphthalene              | 13.774    | 128   | 103253   | 6.410    | ug/l       | 99       |
| -----                        |           |       |          |          |            |          |

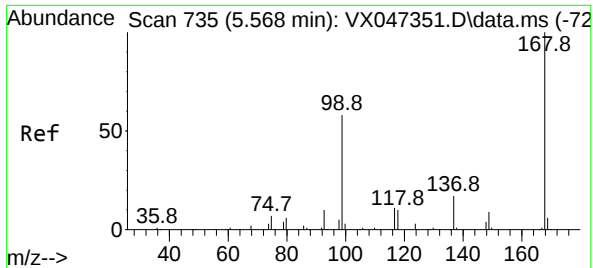
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
Data File : VX047452.D  
Acq On : 20 Aug 2025 18:40  
Operator : JC/MD  
Sample : Q2878-05 50X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-11B-37.5-081425

Quant Time: Aug 21 01:38:17 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration

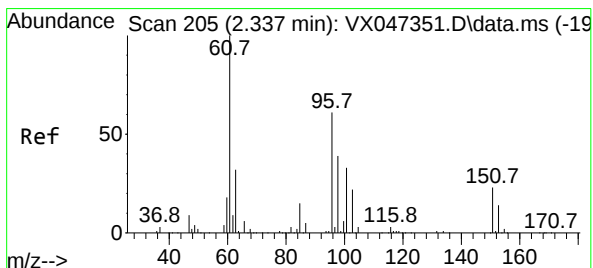
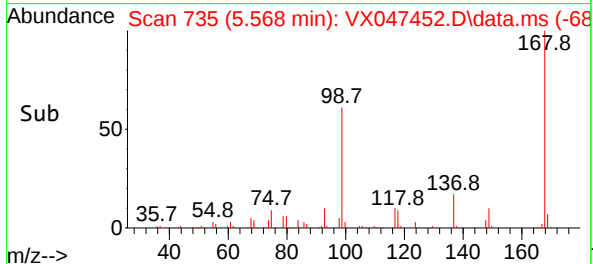
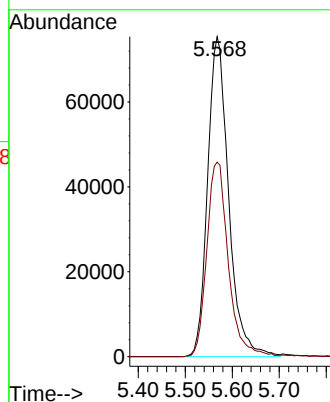
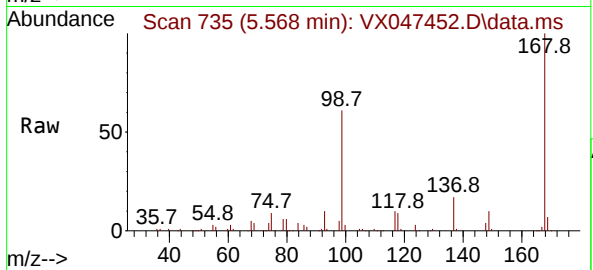




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.568 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX047452.D  
Acq: 20 Aug 2025 18:40

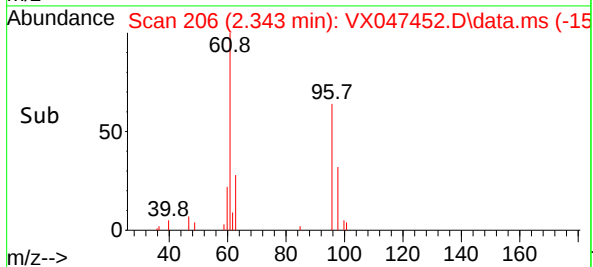
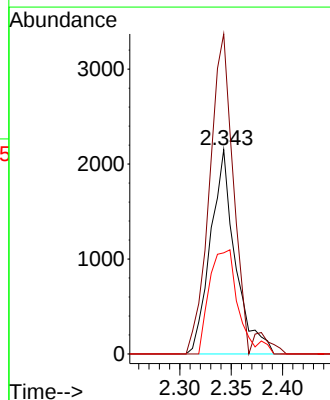
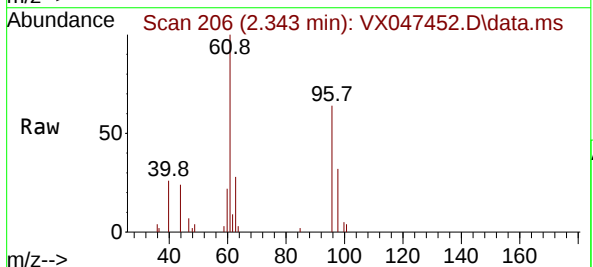
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-11B-37.5-081425

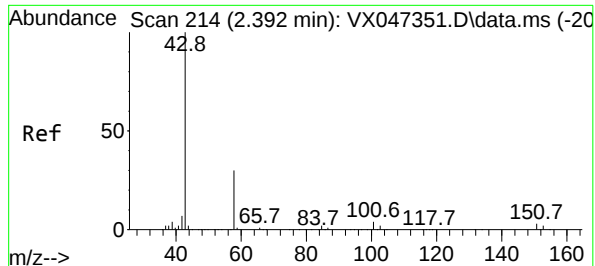
Tgt Ion:168 Resp: 233413  
Ion Ratio Lower Upper  
168 100  
99 60.8 47.9 71.9



#12  
1,1-Dichloroethene  
Concen: 1.229 ug/l  
RT: 2.343 min Scan# 206  
Delta R.T. 0.006 min  
Lab File: VX047452.D  
Acq: 20 Aug 2025 18:40

Tgt Ion: 96 Resp: 3613  
Ion Ratio Lower Upper  
96 100  
61 156.6 132.2 198.2  
98 49.5 51.2 76.8#





#16

Acetone

Concen: 1.494 ug/l

RT: 2.398 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

Instrument :

MSVOA\_X

ClientSampleId :

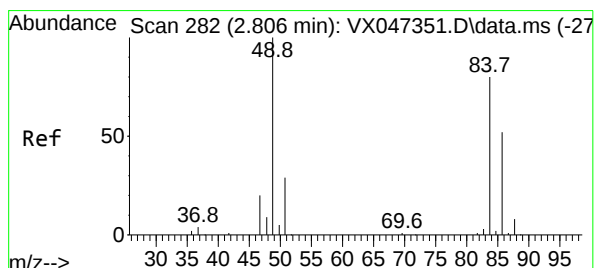
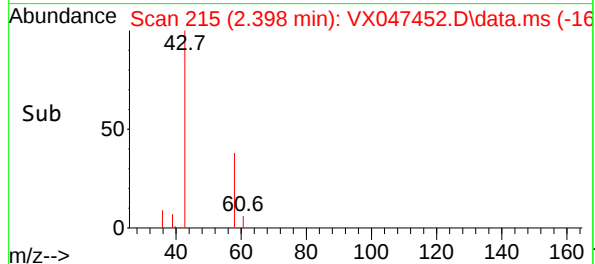
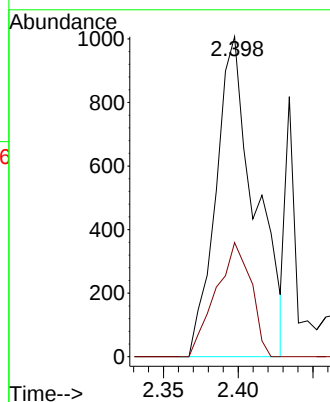
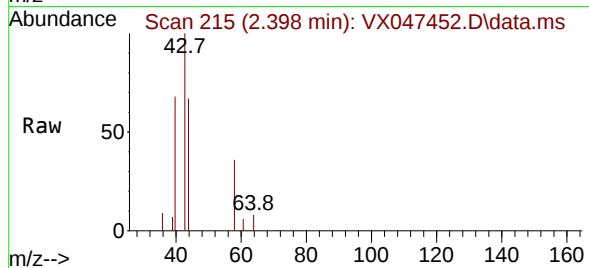
MW-11B-37.5-081425

Tgt Ion: 43 Resp: 1834

Ion Ratio Lower Upper

43 100

58 35.7 24.8 37.2



#20

Methylene Chloride

Concen: 0.284 ug/l

RT: 2.806 min Scan# 282

Delta R.T. -0.000 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

Tgt Ion: 84 Resp: 922

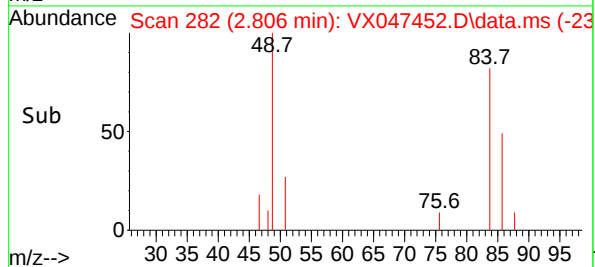
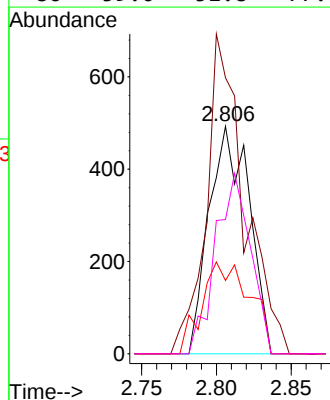
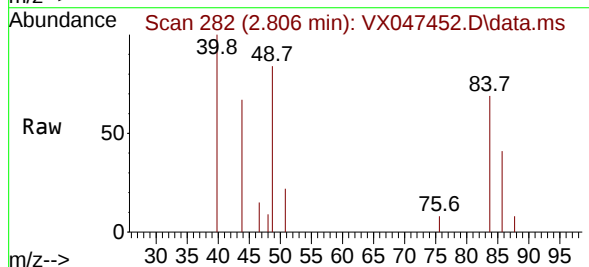
Ion Ratio Lower Upper

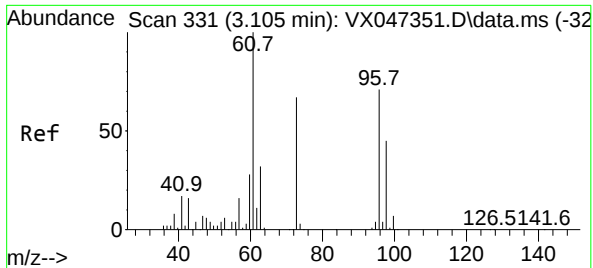
84 100

49 110.3 100.1 150.1

51 32.3 29.5 44.3

86 59.0 51.8 77.8

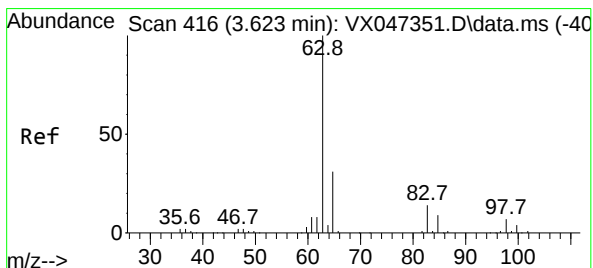
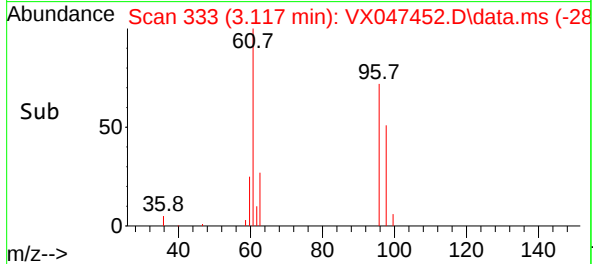
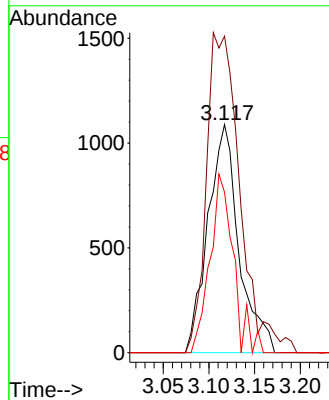
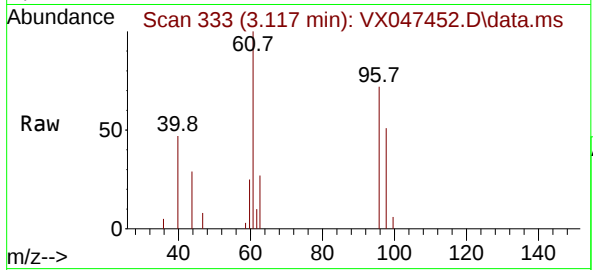




#21  
trans-1,2-Dichloroethene  
Concen: 0.825 ug/l  
RT: 3.117 min Scan# 311  
Delta R.T. 0.012 min  
Lab File: VX047452.D  
Acq: 20 Aug 2025 18:40

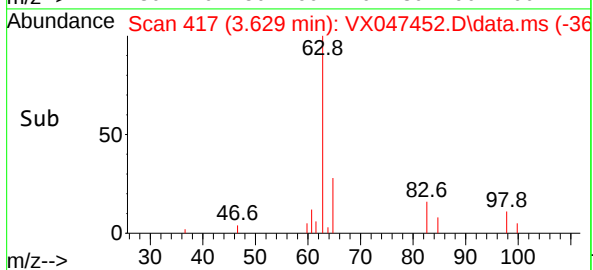
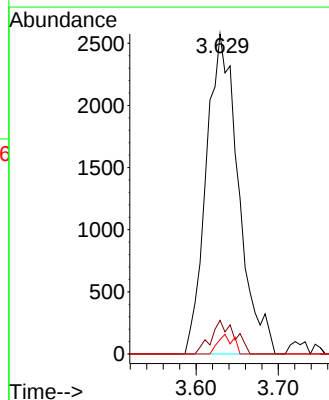
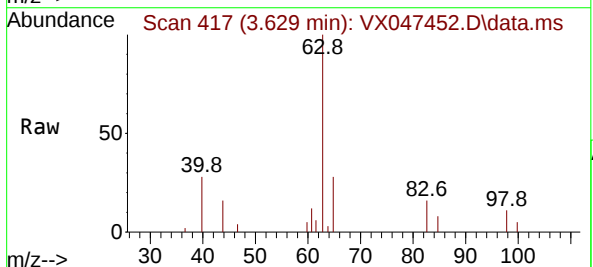
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-11B-37.5-081425

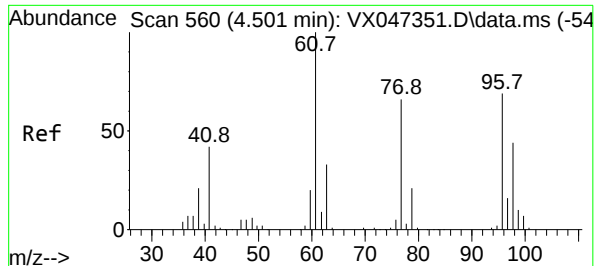
Tgt Ion: 96 Resp: 2574  
Ion Ratio Lower Upper  
96 100  
61 138.7 112.6 169.0  
98 70.3 50.9 76.3



#24  
1,1-Dichloroethane  
Concen: 1.228 ug/l  
RT: 3.629 min Scan# 417  
Delta R.T. 0.006 min  
Lab File: VX047452.D  
Acq: 20 Aug 2025 18:40

Tgt Ion: 63 Resp: 7002  
Ion Ratio Lower Upper  
63 100  
98 10.5 3.3 9.9#  
100 4.5 2.1 6.3





#27

cis-1,2-Dichloroethene

Concen: 44.953 ug/l

RT: 4.501 min Scan# 50

Delta R.T. -0.000 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

Instrument :

MSVOA\_X

ClientSampleId :

MW-11B-37.5-081425

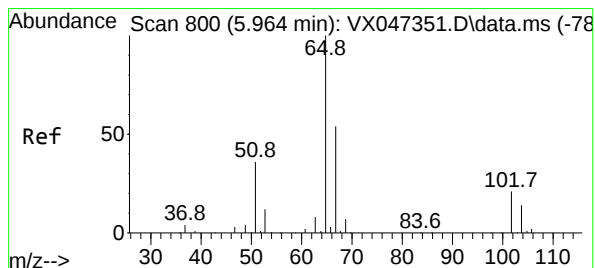
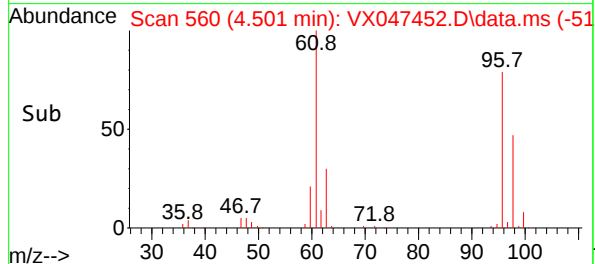
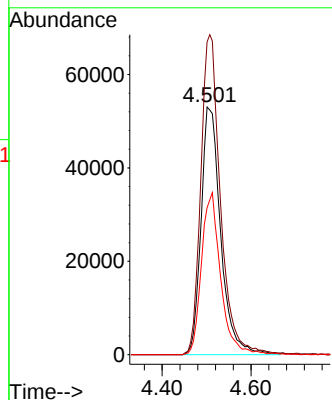
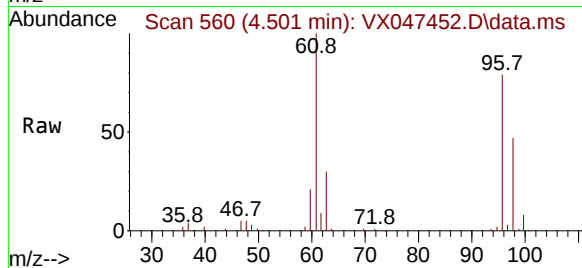
Tgt Ion: 96 Resp: 163315

Ion Ratio Lower Upper

96 100

61 129.4 0.0 296.6

98 63.6 0.0 130.4



#33

1,2-Dichloroethane-d4

Concen: 56.336 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.006 min

Lab File: VX047452.D

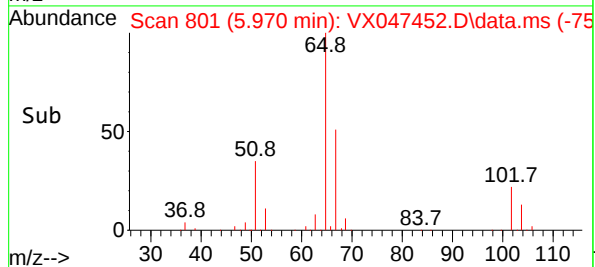
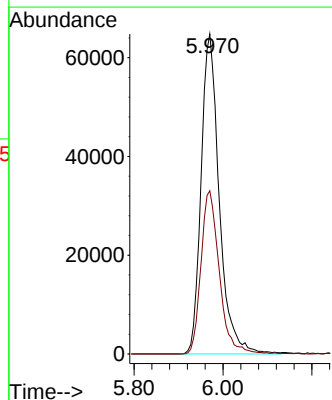
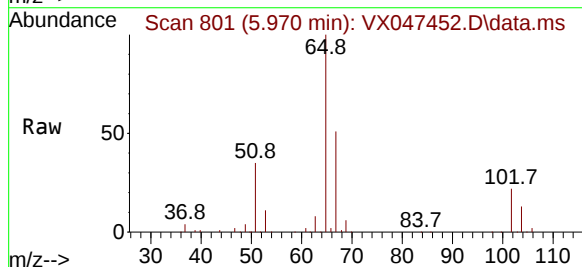
Acq: 20 Aug 2025 18:40

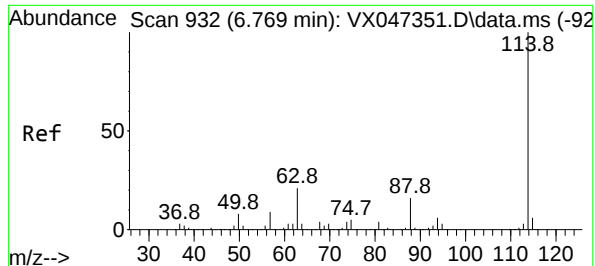
Tgt Ion: 65 Resp: 184033

Ion Ratio Lower Upper

65 100

67 51.6 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

Instrument :

MSVOA\_X

ClientSampleId :

MW-11B-37.5-081425

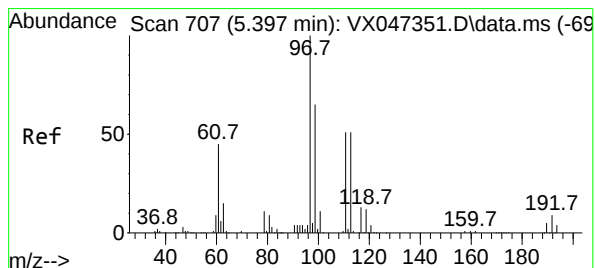
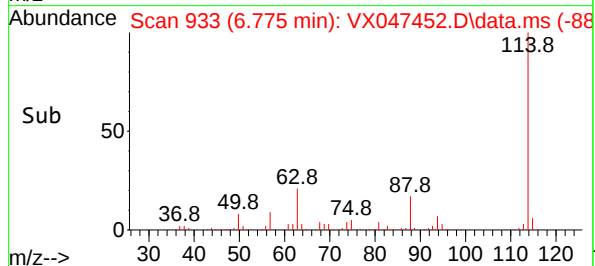
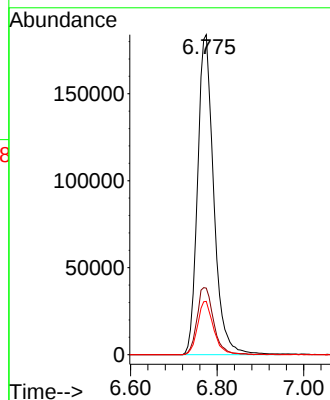
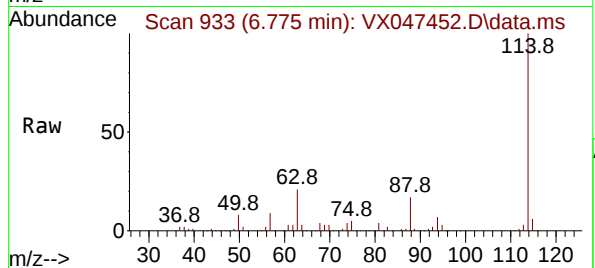
Tgt Ion:114 Resp: 475099

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.4

88 16.7 0.0 33.0



#35

Dibromofluoromethane

Concen: 50.467 ug/l

RT: 5.403 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

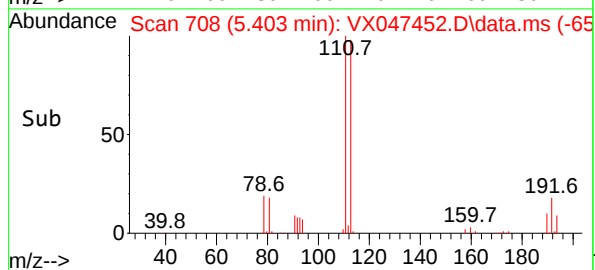
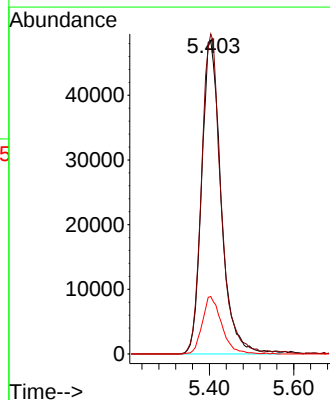
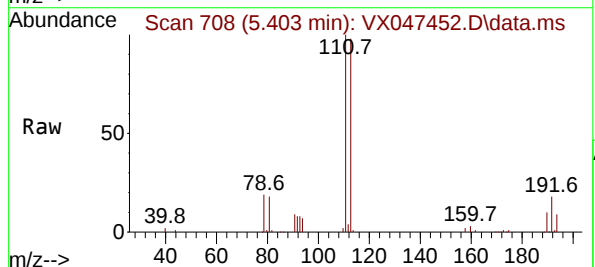
Tgt Ion:113 Resp: 155611

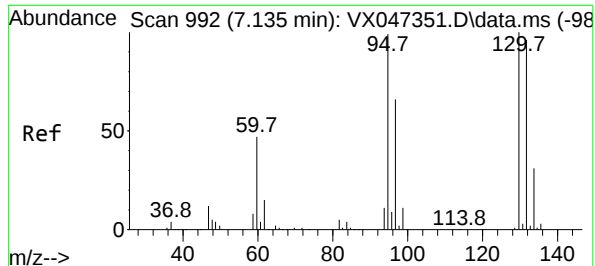
Ion Ratio Lower Upper

113 100

111 101.7 81.4 122.2

192 18.2 14.1 21.1





#44

Trichloroethene

Concen: 92.036 ug/l

RT: 7.135 min Scan# 992

Delta R.T. -0.000 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

Instrument :

MSVOA\_X

ClientSampleId :

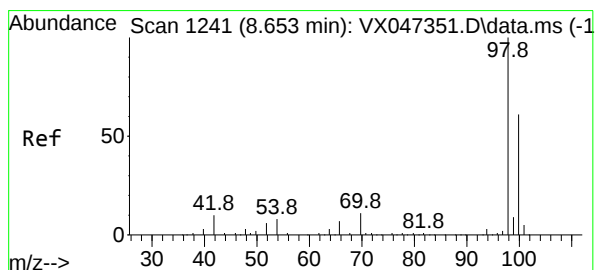
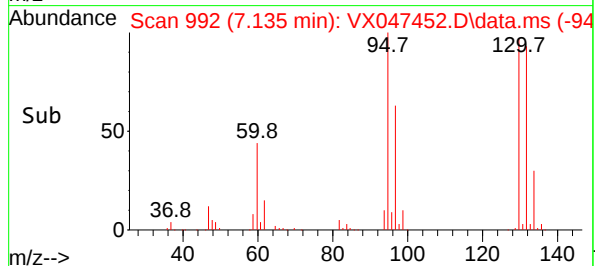
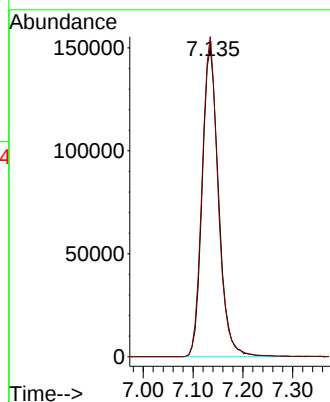
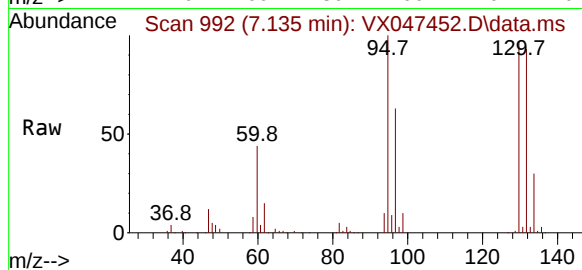
MW-11B-37.5-081425

Tgt Ion:130 Resp: 343338

Ion Ratio Lower Upper

130 100

95 103.4 0.0 198.6



#50

Toluene-d8

Concen: 49.439 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX047452.D

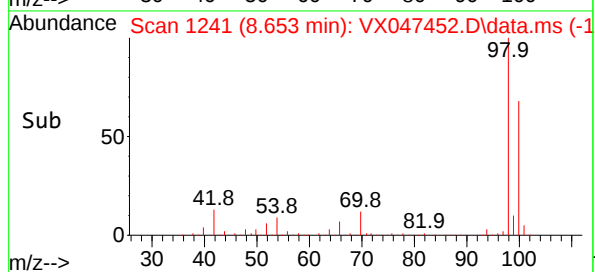
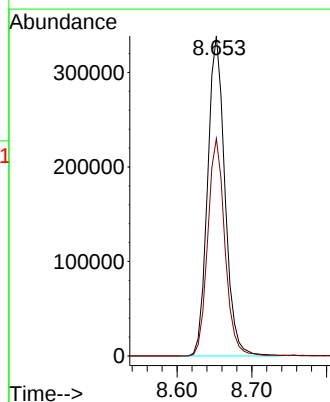
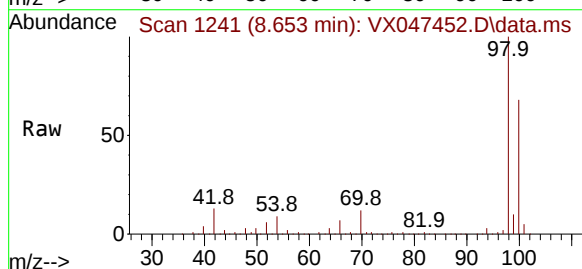
Acq: 20 Aug 2025 18:40

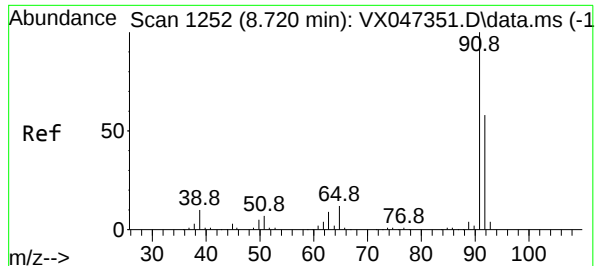
Tgt Ion: 98 Resp: 544870

Ion Ratio Lower Upper

98 100

100 67.2 53.9 80.9





#52

Toluene

Concen: 0.373 ug/l

RT: 8.732 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

Instrument :

MSVOA\_X

ClientSampleId :

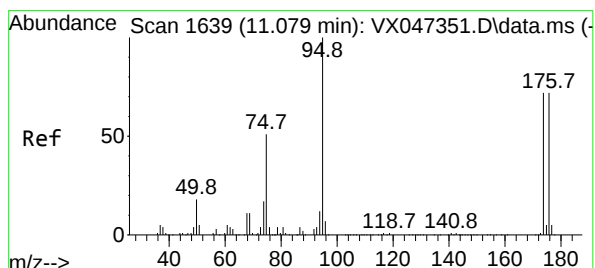
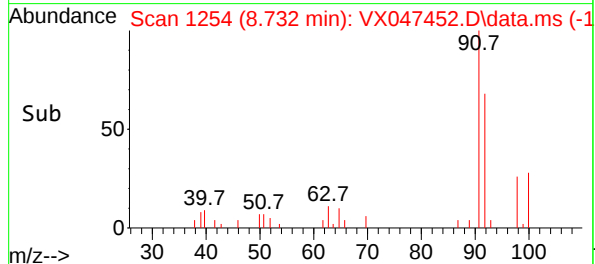
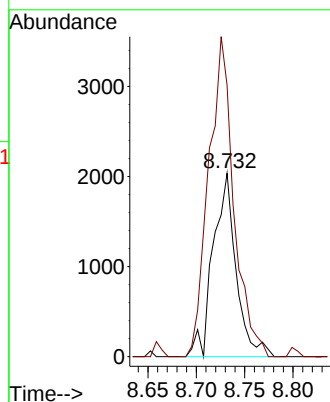
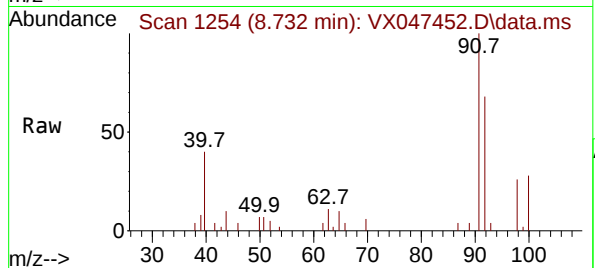
MW-11B-37.5-081425

Tgt Ion: 92 Resp: 3358

Ion Ratio Lower Upper

92 100

91 191.8 136.3 204.5



#62

4-Bromofluorobenzene

Concen: 56.800 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

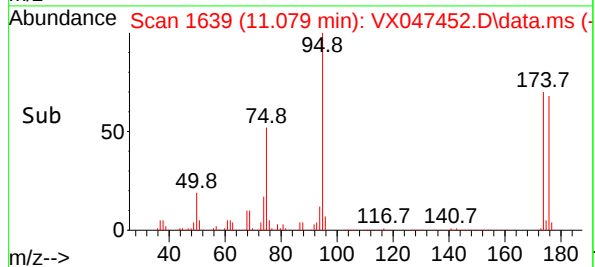
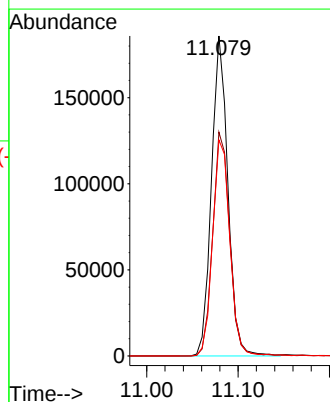
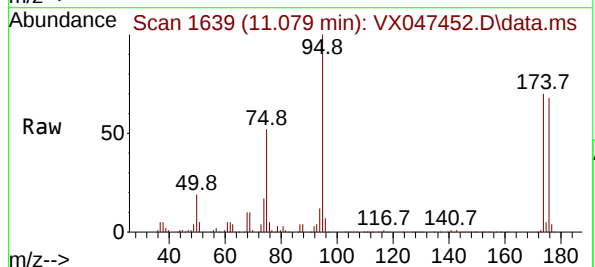
Tgt Ion: 95 Resp: 231003

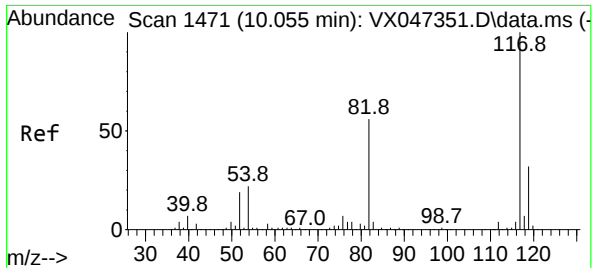
Ion Ratio Lower Upper

95 100

174 72.7 0.0 148.0

176 71.1 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

Instrument :

MSVOA\_X

ClientSampleId :

MW-11B-37.5-081425

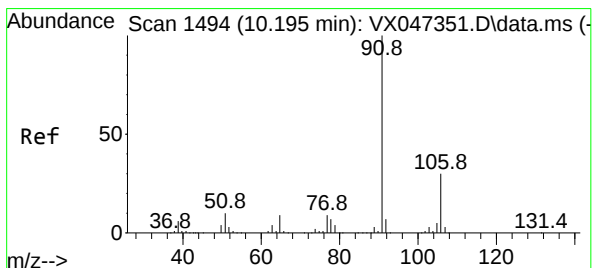
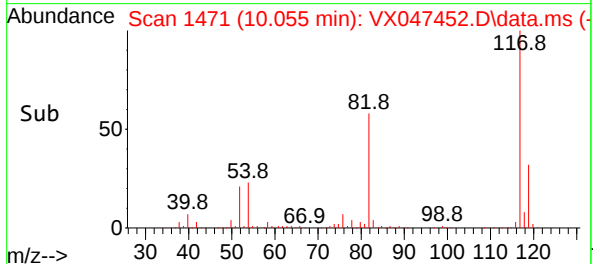
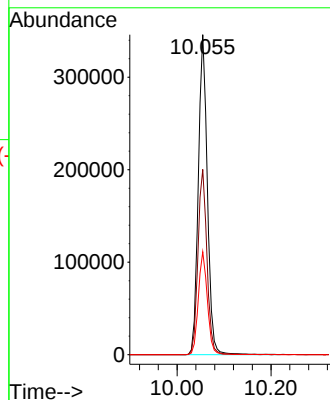
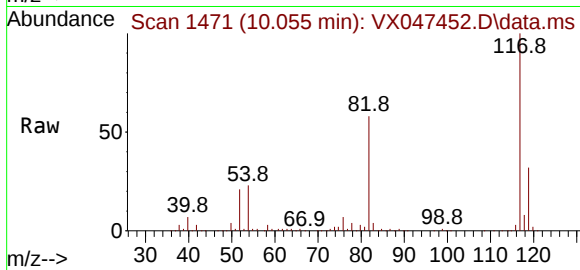
Tgt Ion:117 Resp: 465473

Ion Ratio Lower Upper

117 100

82 57.9 45.0 67.4

119 32.1 25.8 38.8



#67

Ethyl Benzene

Concen: 0.297 ug/l

RT: 10.201 min Scan# 1495

Delta R.T. 0.006 min

Lab File: VX047452.D

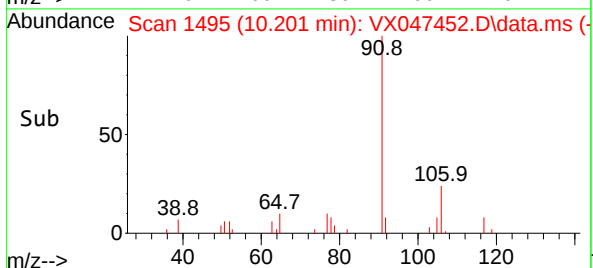
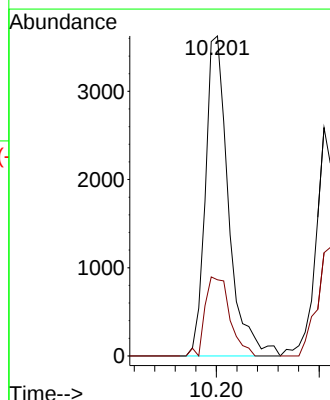
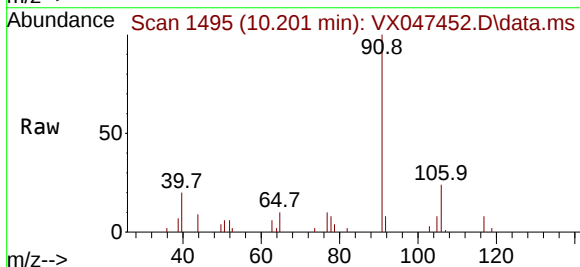
Acq: 20 Aug 2025 18:40

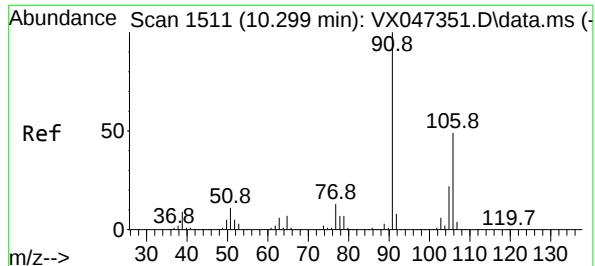
Tgt Ion: 91 Resp: 5646

Ion Ratio Lower Upper

91 100

106 22.1 24.4 36.6#





#68

m/p-Xylenes

Concen: 0.314 ug/l

RT: 10.311 min Scan# 1511

Delta R.T. 0.012 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

Instrument :

MSVOA\_X

ClientSampleId :

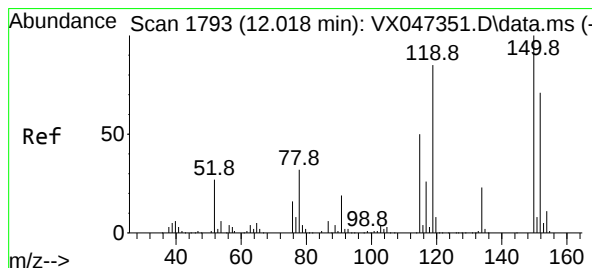
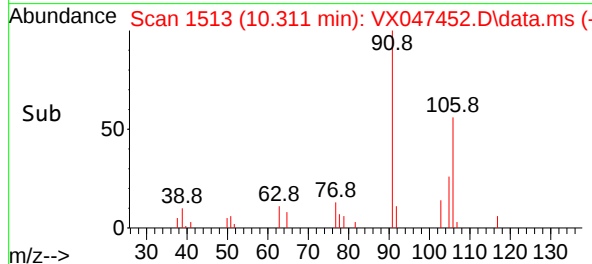
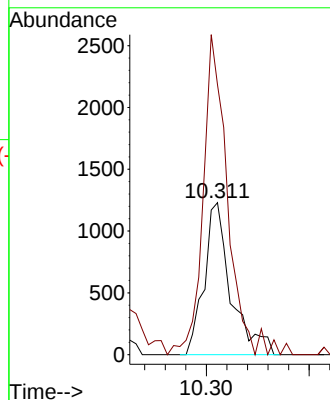
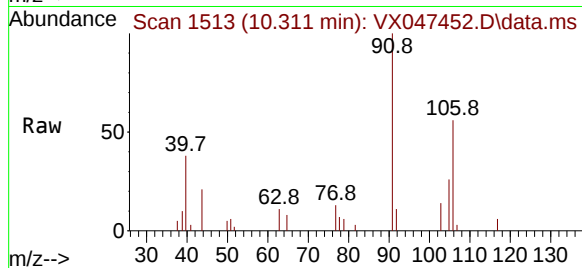
MW-11B-37.5-081425

Tgt Ion:106 Resp: 2227

Ion Ratio Lower Upper

106 100

91 185.1 164.7 247.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX047452.D

Acq: 20 Aug 2025 18:40

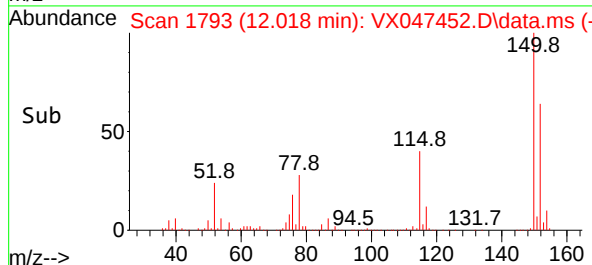
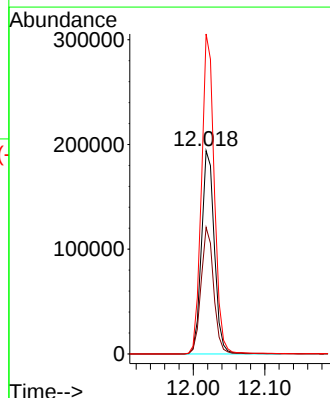
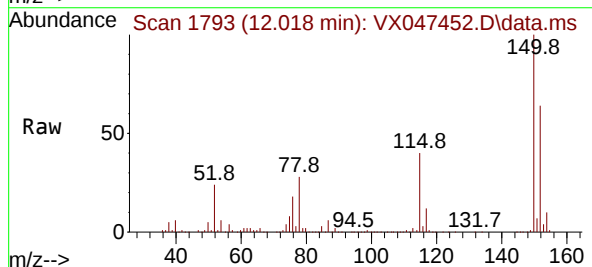
Tgt Ion:152 Resp: 242657

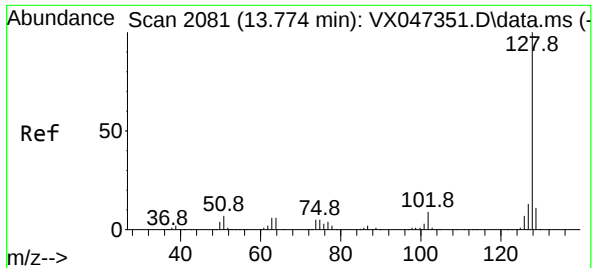
Ion Ratio Lower Upper

152 100

115 60.9 44.6 133.8

150 157.1 0.0 349.8





#95

Naphthalene

Concen: 6.410 ug/l

RT: 13.774 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX047452.D

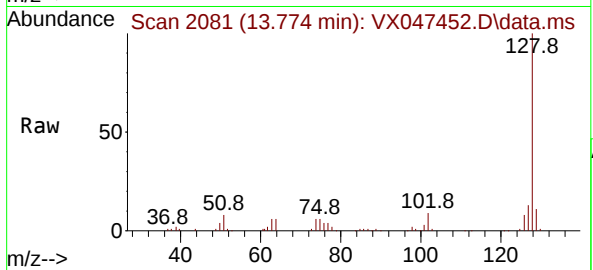
Acq: 20 Aug 2025 18:40

Instrument :

MSVOA\_X

ClientSampleId :

MW-11B-37.5-081425



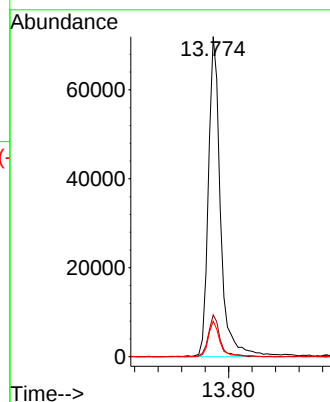
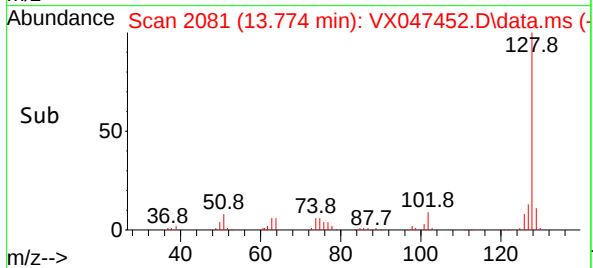
Tgt Ion:128 Resp: 103253

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

129 10.2 8.7 13.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047441.D  
 Acq On : 20 Aug 2025 14:42  
 Operator : JC/MD  
 Sample : Q2878-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB01-081425

A  
B  
C  
D  
E  
F  
G  
H  
I  
J

Quant Time: Aug 21 01:32:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.568  | 168  | 298809   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.775  | 114  | 610463   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 600442   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152  | 294767   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 5.970  | 65    | 241793   | 57.819   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 115.640% |
| 35) Dibromofluoromethane    | 5.403  | 113   | 199788   | 50.427   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 100.860% |
| 50) Toluene-d8              | 8.653  | 98    | 715700   | 50.540   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 101.080% |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 287809   | 55.075   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 110.160% |

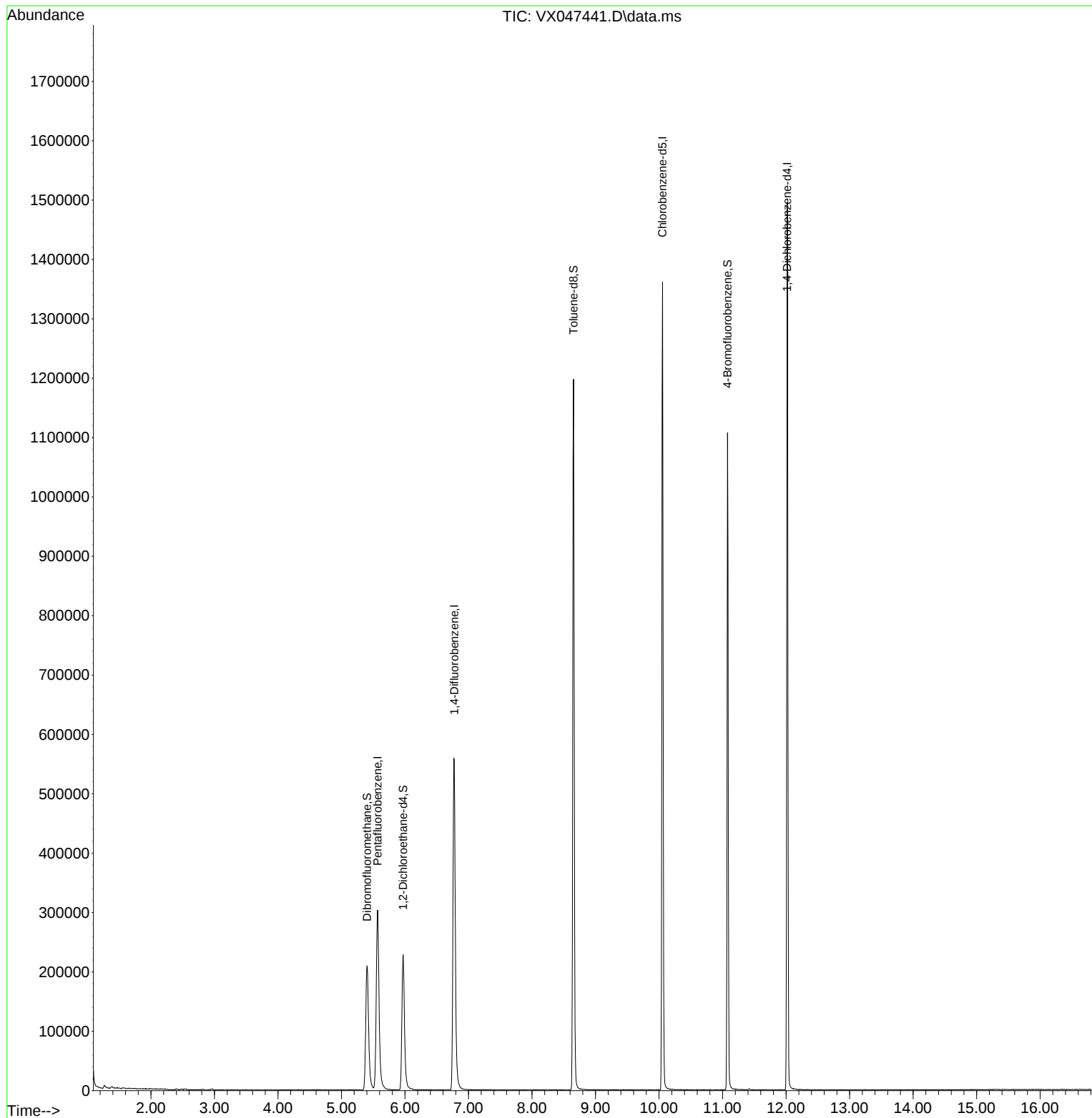
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

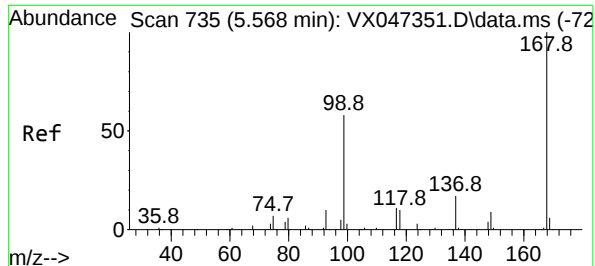
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
Data File : VX047441.D  
Acq On : 20 Aug 2025 14:42  
Operator : JC/MD  
Sample : Q2878-06  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB01-081425

Quant Time: Aug 21 01:32:21 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration

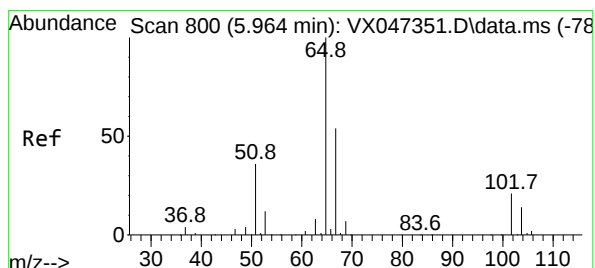
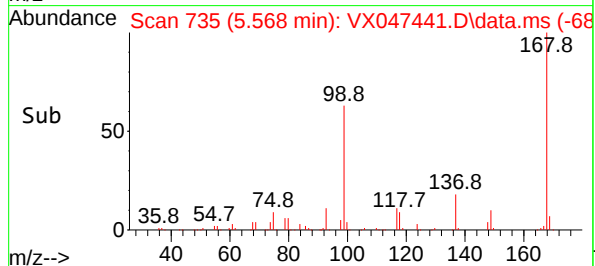
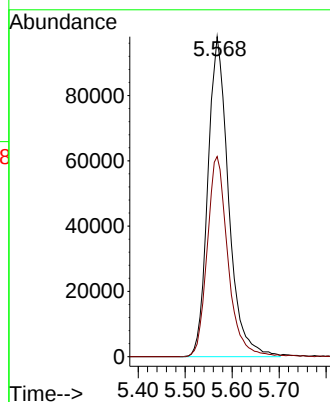
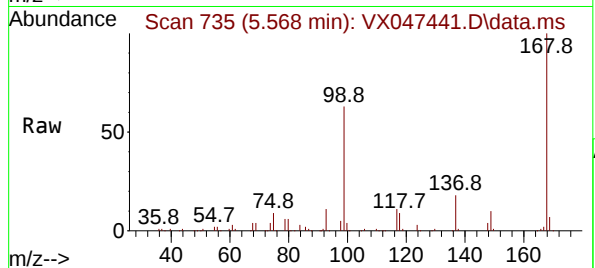




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.568 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX047441.D  
Acq: 20 Aug 2025 14:42

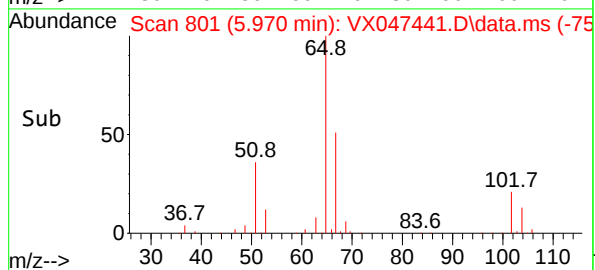
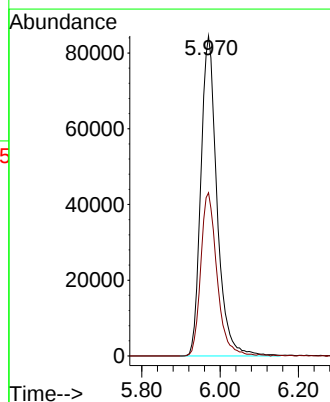
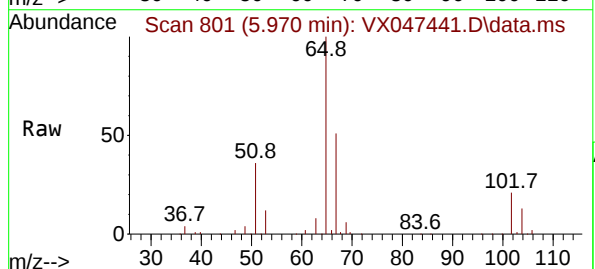
Instrument :  
MSVOA\_X  
ClientSampleId :  
TB01-081425

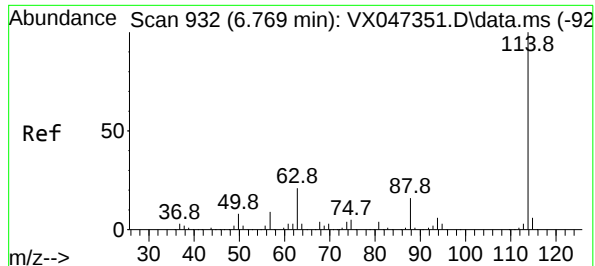
Tgt Ion:168 Resp: 298809  
Ion Ratio Lower Upper  
168 100  
99 62.5 47.9 71.9



#33  
1,2-Dichloroethane-d4  
Concen: 57.819 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VX047441.D  
Acq: 20 Aug 2025 14:42

Tgt Ion: 65 Resp: 241793  
Ion Ratio Lower Upper  
65 100  
67 51.3 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX047441.D

Acq: 20 Aug 2025 14:42

Instrument :

MSVOA\_X

ClientSampleId :

TB01-081425

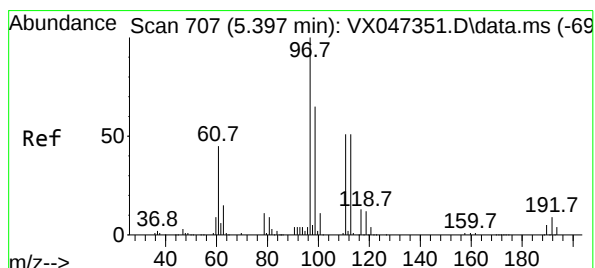
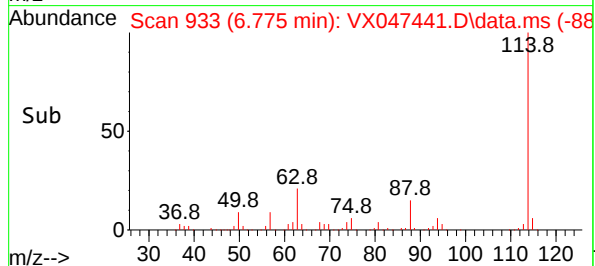
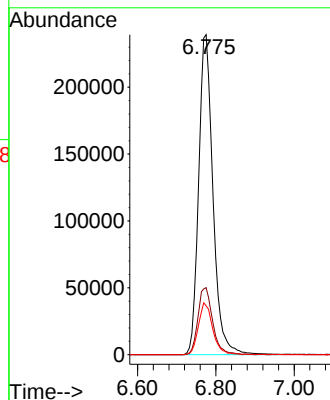
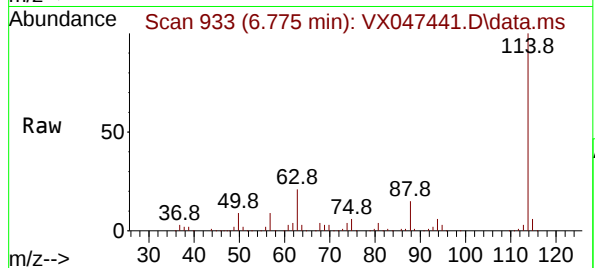
Tgt Ion:114 Resp: 610463

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.4

88 15.2 0.0 33.0



#35

Dibromofluoromethane

Concen: 50.427 ug/l

RT: 5.403 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX047441.D

Acq: 20 Aug 2025 14:42

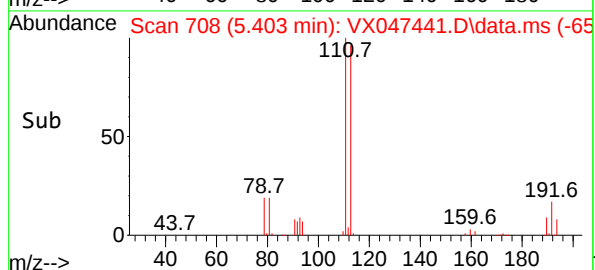
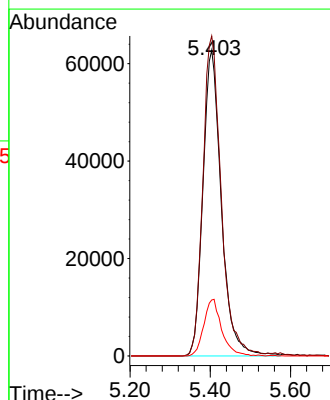
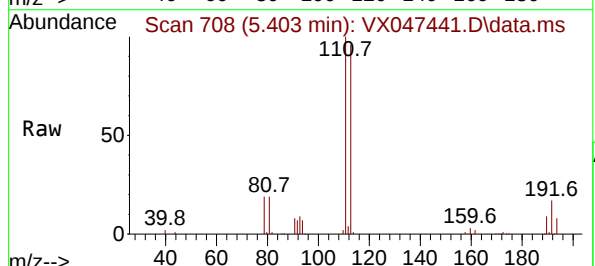
Tgt Ion:113 Resp: 199788

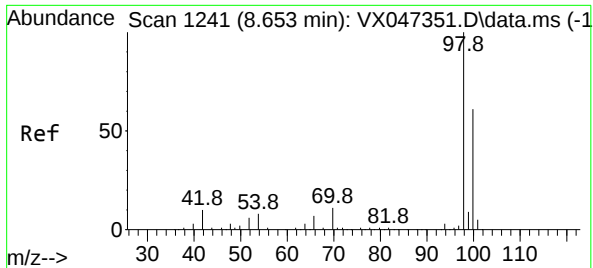
Ion Ratio Lower Upper

113 100

111 104.2 81.4 122.2

192 18.0 14.1 21.1





#50

Toluene-d8

Concen: 50.540 ug/l

RT: 8.653 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047441.D

Acq: 20 Aug 2025 14:42

Instrument :

MSVOA\_X

ClientSampleId :

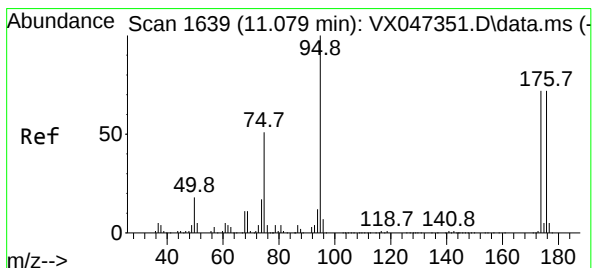
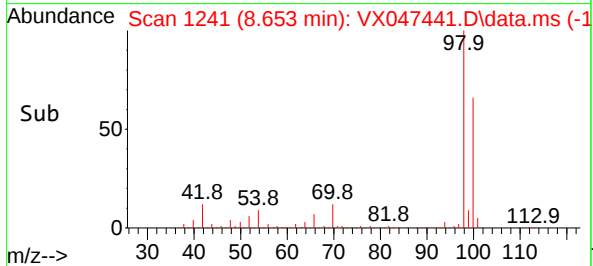
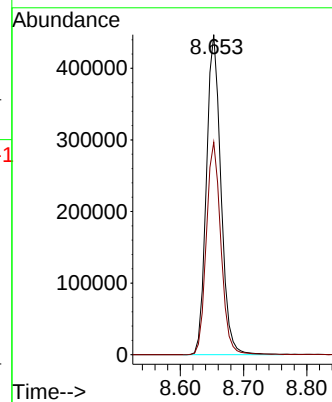
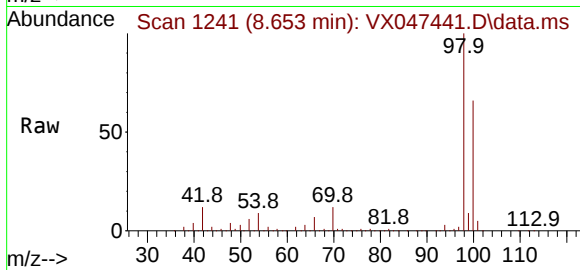
TB01-081425

Tgt Ion: 98 Resp: 715700

Ion Ratio Lower Upper

98 100

100 66.3 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 55.075 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047441.D

Acq: 20 Aug 2025 14:42

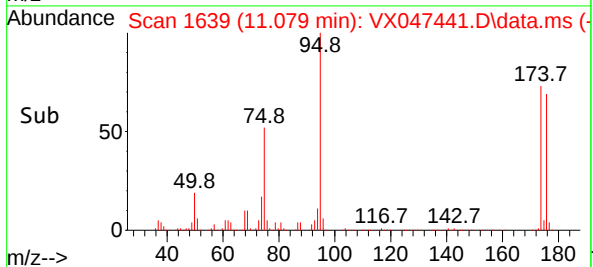
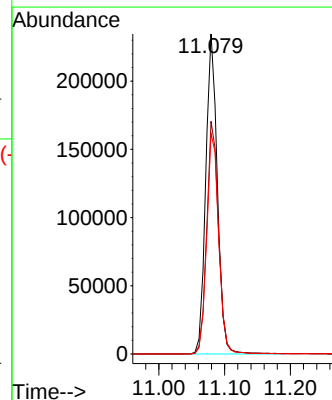
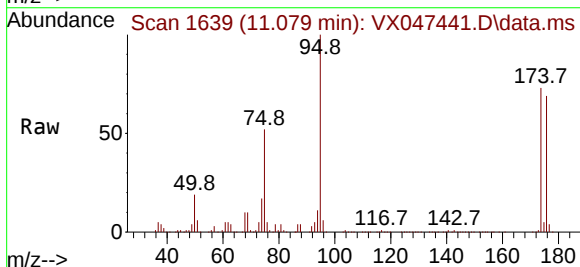
Tgt Ion: 95 Resp: 287809

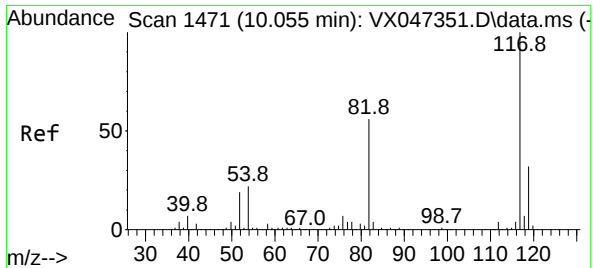
Ion Ratio Lower Upper

95 100

174 74.3 0.0 148.0

176 71.2 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047441.D

Acq: 20 Aug 2025 14:42

Instrument :

MSVOA\_X

ClientSampleId :

TB01-081425

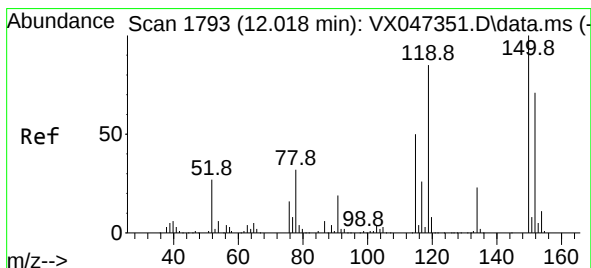
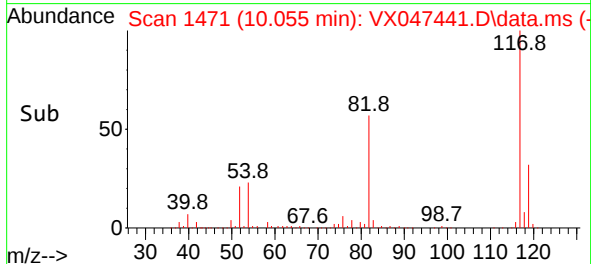
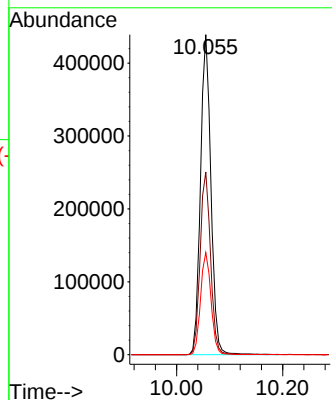
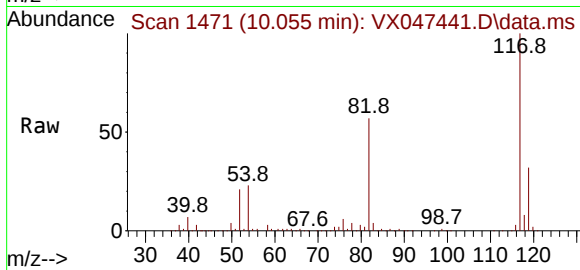
Tgt Ion:117 Resp: 600442

Ion Ratio Lower Upper

117 100

82 57.1 45.0 67.4

119 31.9 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047441.D

Acq: 20 Aug 2025 14:42

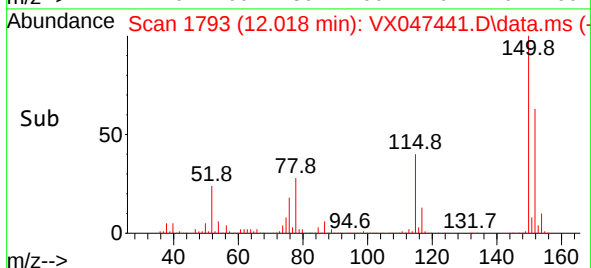
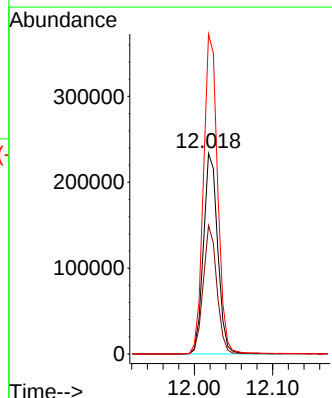
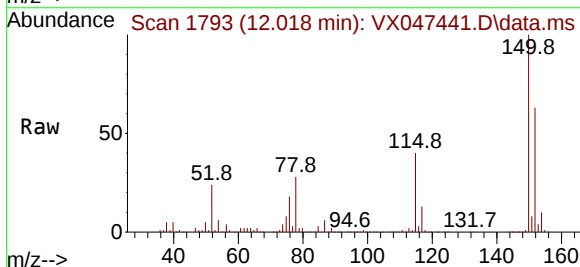
Tgt Ion:152 Resp: 294767

Ion Ratio Lower Upper

152 100

115 61.5 44.6 133.8

150 159.3 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
Data File : VX047429.D  
Acq On : 20 Aug 2025 10:07  
Operator : JC/MD  
Sample : VX0820WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0820WBL01

A  
B  
C  
D  
E  
F  
G  
H  
I  
J

Quant Time: Aug 21 01:26:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.568  | 168  | 280589   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.769  | 114  | 574542   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 560929   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152  | 279679   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 5.964  | 65    | 227227   | 57.864   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 115.720% |
| 35) Dibromofluoromethane    | 5.397  | 113   | 191362   | 51.320   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 102.640% |
| 50) Toluene-d8              | 8.653  | 98    | 676059   | 50.725   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 101.460% |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 274800   | 55.874   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 111.740% |

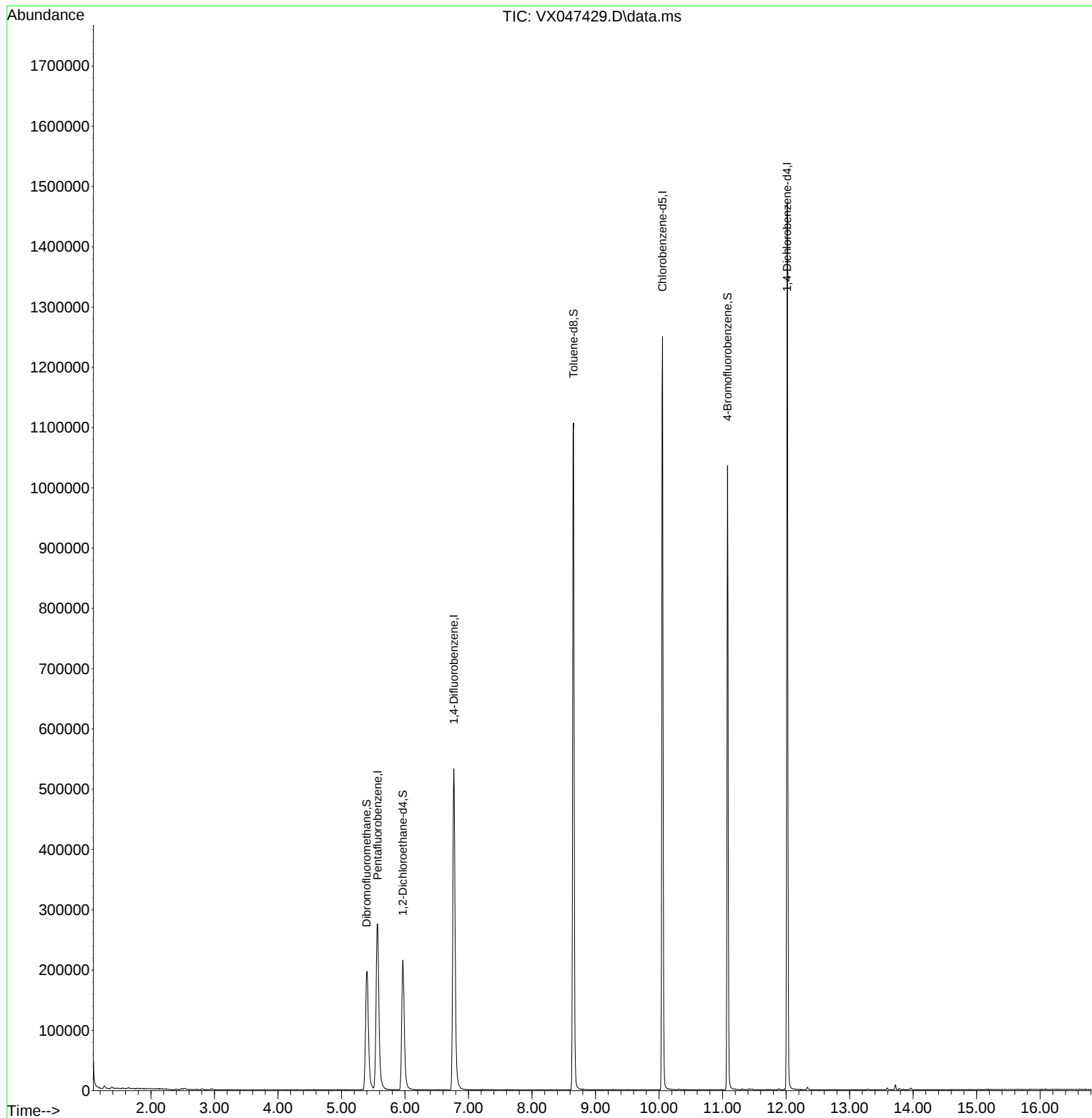
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

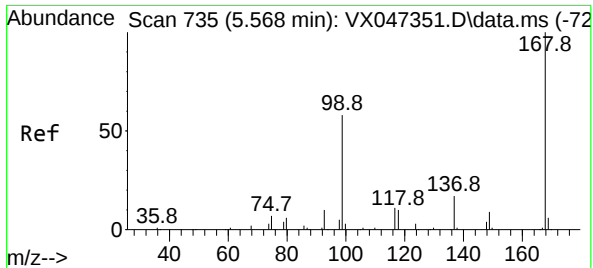
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
Data File : VX047429.D  
Acq On : 20 Aug 2025 10:07  
Operator : JC/MD  
Sample : VX0820WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0820WBL01

Quant Time: Aug 21 01:26:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration

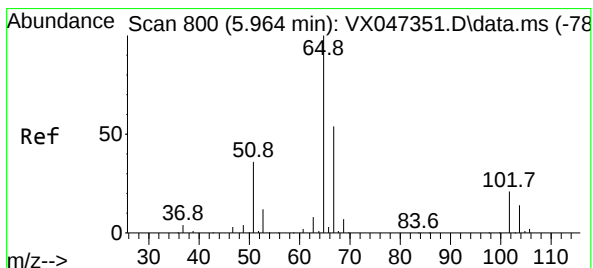
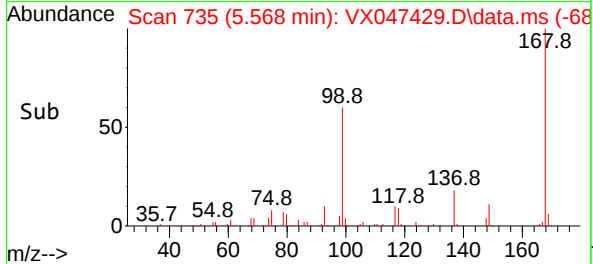
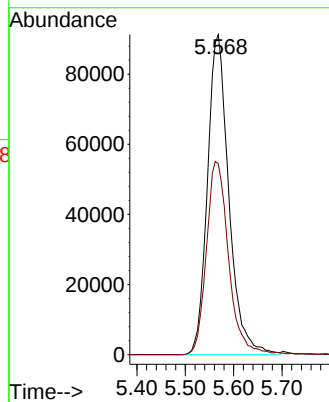
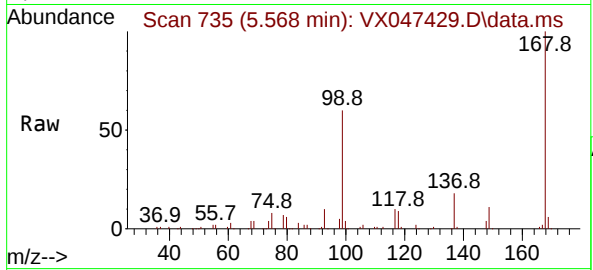




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.568 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX047429.D  
Acq: 20 Aug 2025 10:07

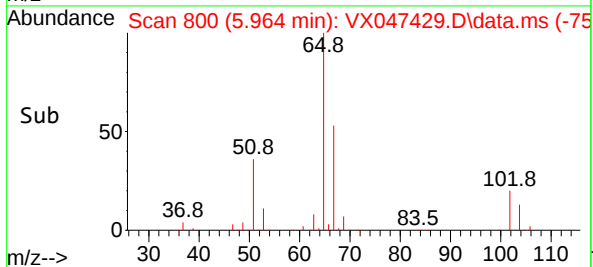
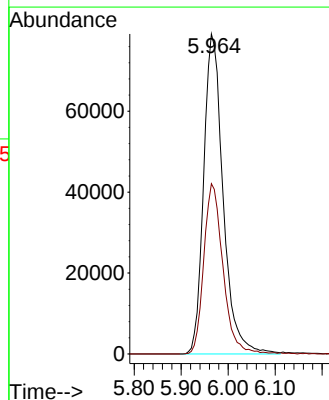
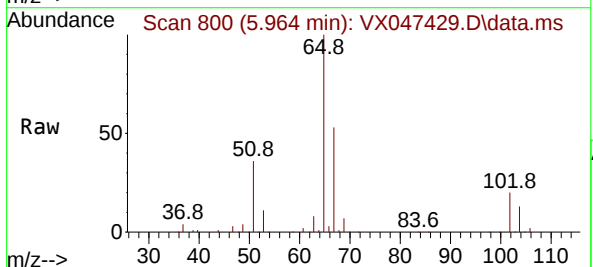
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0820WBL01

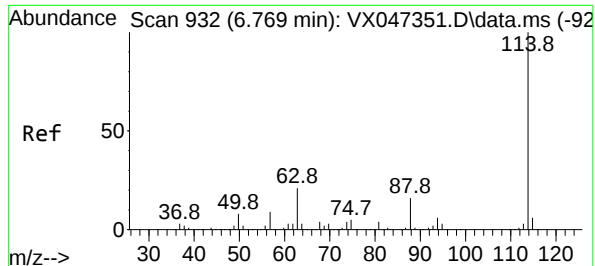
Tgt Ion:168 Resp: 280589  
Ion Ratio Lower Upper  
168 100  
99 59.7 47.9 71.9



#33  
1,2-Dichloroethane-d4  
Concen: 57.864 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX047429.D  
Acq: 20 Aug 2025 10:07

Tgt Ion: 65 Resp: 227227  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047429.D

Acq: 20 Aug 2025 10:07

Instrument :

MSVOA\_X

ClientSampleId :

VX0820WBL01

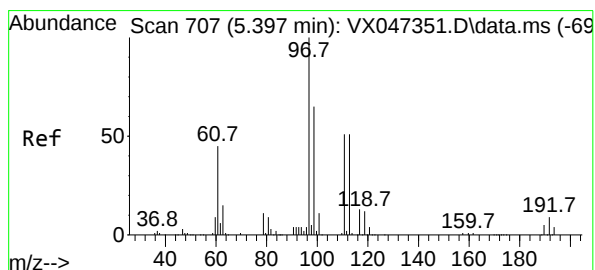
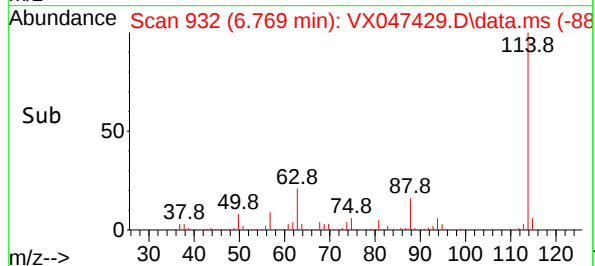
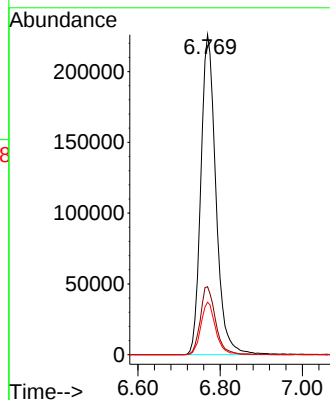
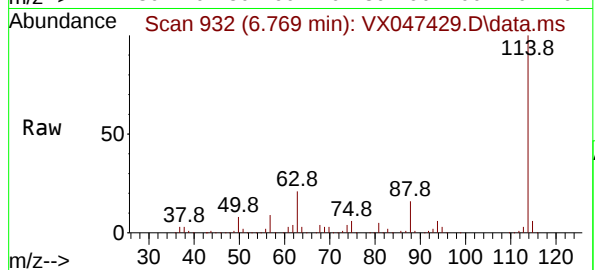
Tgt Ion:114 Resp: 574542

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.4

88 16.4 0.0 33.0



#35

Dibromofluoromethane

Concen: 51.320 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047429.D

Acq: 20 Aug 2025 10:07

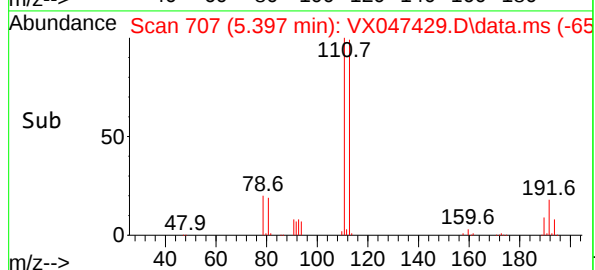
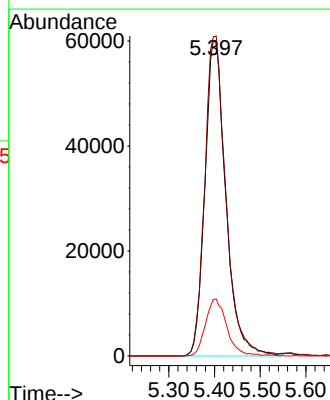
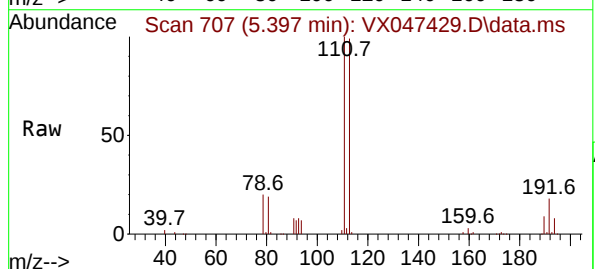
Tgt Ion:113 Resp: 191362

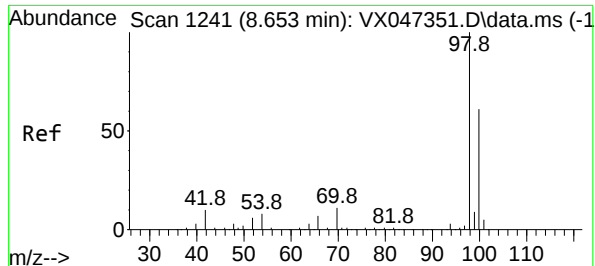
Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.2

192 18.3 14.1 21.1





#50

Toluene-d8

Concen: 50.725 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047429.D

Acq: 20 Aug 2025 10:07

Instrument :

MSVOA\_X

ClientSampleId :

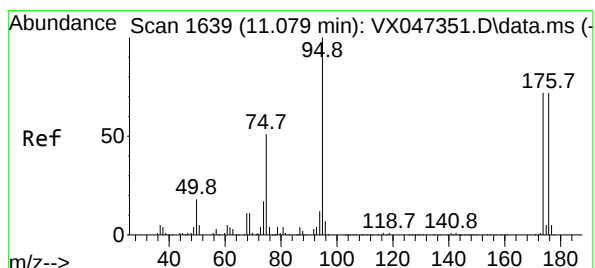
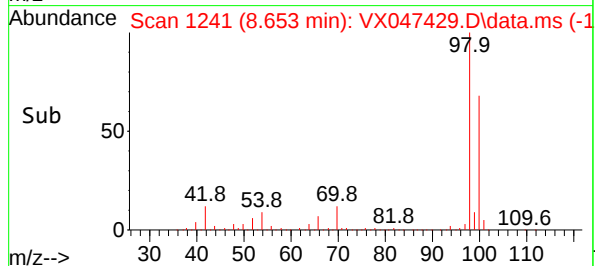
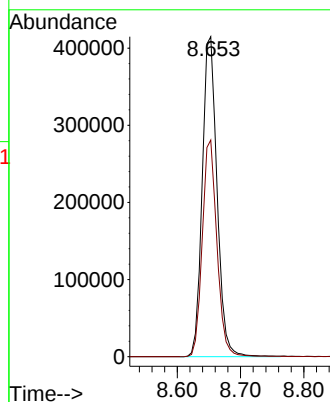
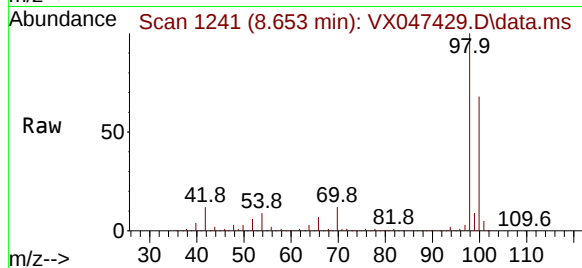
VX0820WBL01

Tgt Ion: 98 Resp: 676059

Ion Ratio Lower Upper

98 100

100 67.0 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 55.874 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047429.D

Acq: 20 Aug 2025 10:07

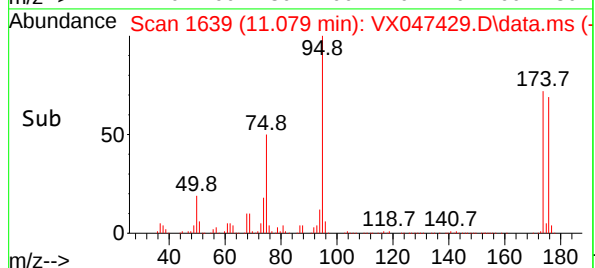
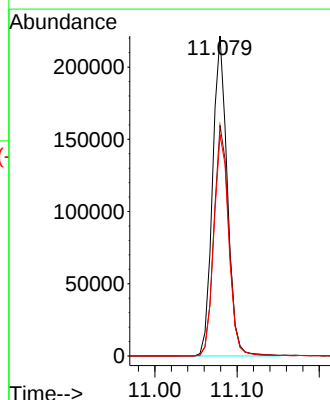
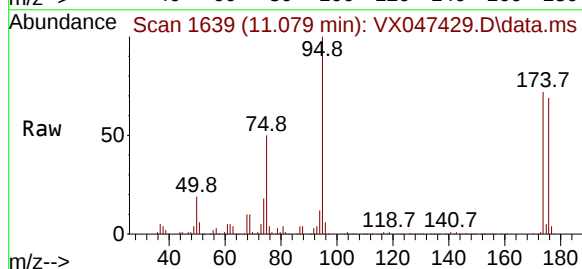
Tgt Ion: 95 Resp: 274800

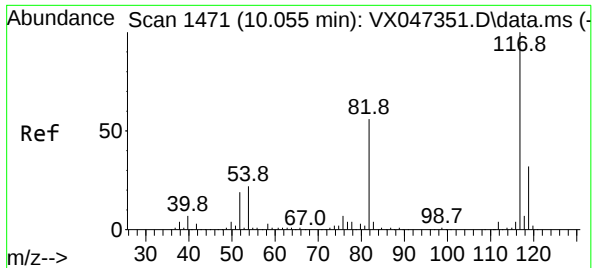
Ion Ratio Lower Upper

95 100

174 73.4 0.0 148.0

176 70.4 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047429.D

Acq: 20 Aug 2025 10:07

Instrument :

MSVOA\_X

ClientSampleId :

VX0820WBL01

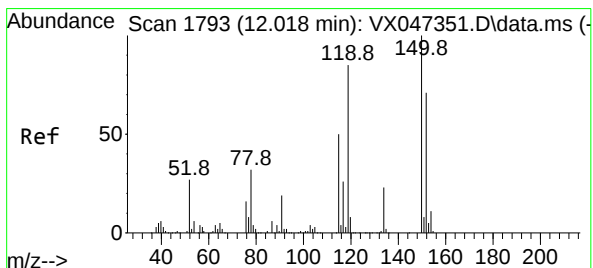
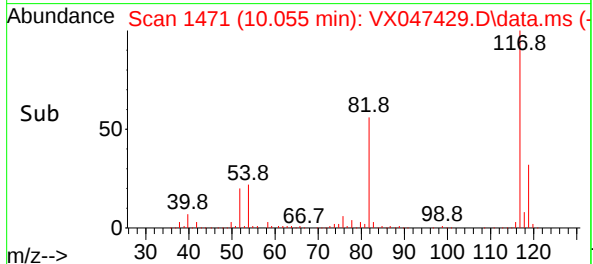
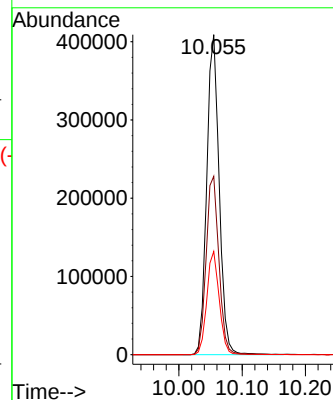
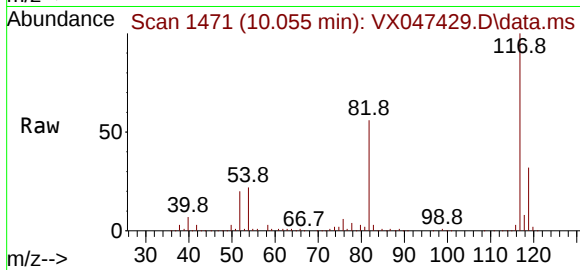
Tgt Ion:117 Resp: 560929

Ion Ratio Lower Upper

117 100

82 55.8 45.0 67.4

119 32.2 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047429.D

Acq: 20 Aug 2025 10:07

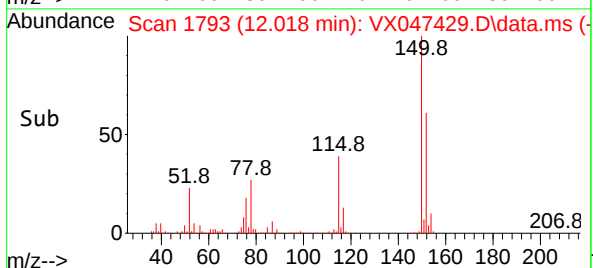
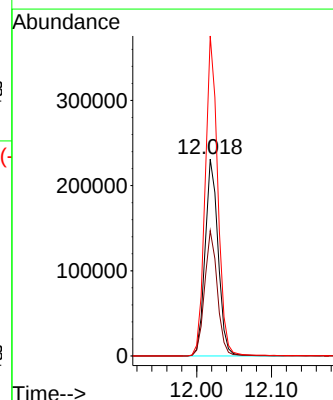
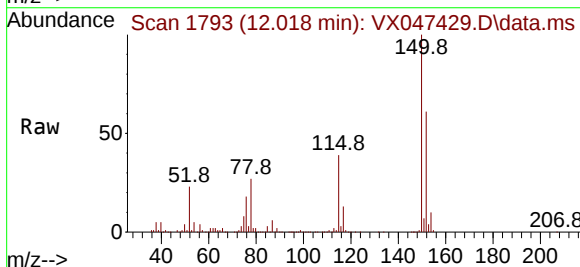
Tgt Ion:152 Resp: 279679

Ion Ratio Lower Upper

152 100

115 62.5 44.6 133.8

150 157.8 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047430.D  
 Acq On : 20 Aug 2025 10:35  
 Operator : JC/MD  
 Sample : VX0820WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0820WBS01

Quant Time: Aug 21 01:26:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025  
 Supervised By :Mahesh Dadoda 08/22/2025

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.556  | 168  | 244648   | 50.000 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 407608   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 368354   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152  | 188940   | 50.000 | ug/l  | 0.00     |

### System Monitoring Compounds

|                           |        |       |          |          |      |          |
|---------------------------|--------|-------|----------|----------|------|----------|
| 33) 1,2-Dichloroethane-d4 | 5.964  | 65    | 167819   | 49.014   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 78 - 117 | Recovery | =    | 98.020%  |
| 35) Dibromofluoromethane  | 5.391  | 113   | 131872   | 49.849   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 75 - 124 | Recovery | =    | 99.700%  |
| 50) Toluene-d8            | 8.647  | 98    | 465580   | 49.239   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 92 - 112 | Recovery | =    | 98.480%  |
| 62) 4-Bromofluorobenzene  | 11.079 | 95    | 175075   | 50.176   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 83 - 123 | Recovery | =    | 100.360% |

### Target Compounds

|                              |       |     |        |        |        | Qvalue |
|------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.185 | 85  | 53608  | 17.189 | ug/l   | 99     |
| 3) Chloromethane             | 1.313 | 50  | 46690  | 16.642 | ug/l   | 98     |
| 4) Vinyl Chloride            | 1.392 | 62  | 56657  | 16.089 | ug/l   | 98     |
| 5) Bromomethane              | 1.630 | 94  | 23724  | 16.679 | ug/l   | 97     |
| 6) Chloroethane              | 1.703 | 64  | 34003  | 15.782 | ug/l   | 97     |
| 7) Trichlorofluoromethane    | 1.904 | 101 | 88810  | 17.050 | ug/l   | 92     |
| 8) Diethyl Ether             | 2.148 | 74  | 30454  | 16.605 | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluo... | 2.349 | 101 | 53855  | 17.824 | ug/l   | 99     |
| 10) Methyl Iodide            | 2.471 | 142 | 60929  | 11.767 | ug/l   | 96     |
| 11) Tert butyl alcohol       | 2.959 | 59  | 28713  | 96.397 | ug/l   | 99     |
| 12) 1,1-Dichloroethene       | 2.337 | 96  | 51780  | 16.810 | ug/l   | 100    |
| 13) Acrolein                 | 2.246 | 56  | 55598  | 88.423 | ug/l   | 97     |
| 14) Allyl chloride           | 2.678 | 41  | 88985  | 16.632 | ug/l   | 100    |
| 15) Acrylonitrile            | 3.081 | 53  | 129142 | 89.724 | ug/l   | 100    |
| 16) Acetone                  | 2.386 | 43  | 115342 | 89.622 | ug/l   | 96     |
| 17) Carbon Disulfide         | 2.526 | 76  | 143721 | 15.462 | ug/l   | 98     |
| 18) Methyl Acetate           | 2.715 | 43  | 62524  | 18.747 | ug/l   | 98     |
| 19) Methyl tert-butyl Ether  | 3.124 | 73  | 159152 | 16.984 | ug/l   | 98     |
| 20) Methylene Chloride       | 2.800 | 84  | 58590  | 17.192 | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene | 3.105 | 96  | 54587  | 16.697 | ug/l   | 98     |
| 22) Diisopropyl ether        | 3.770 | 45  | 186733 | 17.657 | ug/l   | 91     |
| 23) Vinyl Acetate            | 3.733 | 43  | 739375 | 85.298 | ug/l   | 100    |
| 24) 1,1-Dichloroethane       | 3.623 | 63  | 102911 | 17.216 | ug/l   | 99     |
| 25) 2-Butanone               | 4.568 | 43  | 156985 | 93.136 | ug/l   | 100    |
| 26) 2,2-Dichloropropane      | 4.483 | 77  | 77655  | 17.212 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene   | 4.501 | 96  | 64958  | 17.059 | ug/l   | 98     |
| 28) Bromochloromethane       | 4.904 | 49  | 49457  | 19.883 | ug/l # | 14     |
| 29) Tetrahydrofuran          | 5.020 | 42  | 100323 | 92.088 | ug/l   | 98     |
| 30) Chloroform               | 5.105 | 83  | 106236 | 17.414 | ug/l   | 97     |
| 31) Cyclohexane              | 5.483 | 56  | 93514  | 16.971 | ug/l   | 100    |
| 32) 1,1,1-Trichloroethane    | 5.391 | 97  | 90227  | 17.183 | ug/l   | 98     |
| 36) 1,1-Dichloropropene      | 5.696 | 75  | 72507  | 17.363 | ug/l   | 98     |
| 37) Ethyl Acetate            | 4.721 | 43  | 69374  | 16.002 | ug/l # | 96     |
| 38) Carbon Tetrachloride     | 5.690 | 117 | 80032  | 17.538 | ug/l   | 97     |
| 39) Methylcyclohexane        | 7.385 | 83  | 89125  | 17.110 | ug/l   | 94     |
| 40) Benzene                  | 6.050 | 78  | 220365 | 17.630 | ug/l   | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047430.D  
 Acq On : 20 Aug 2025 10:35  
 Operator : JC/MD  
 Sample : VX0820WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0820WBS01

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/21/2025  
 Supervised By : Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 01:26:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.940  | 41   | 32344    | 17.692  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 6.099  | 62   | 77919    | 17.599  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.349  | 43   | 110163   | 17.688  | ug/l   | 99       |
| 44) Trichloroethene           | 7.135  | 130  | 54954    | 17.170  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.434  | 63   | 54273    | 17.332  | ug/l   | 100      |
| 46) Dibromomethane            | 7.586  | 93   | 40698    | 17.902  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.824  | 83   | 82328    | 17.469  | ug/l   | 100      |
| 48) Methyl methacrylate       | 7.696  | 41   | 56854    | 17.587  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.690  | 88   | 11406    | 362.941 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 335125   | 93.506  | ug/l   | 98       |
| 52) Toluene                   | 8.720  | 92   | 138882   | 17.981  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 72403    | 17.602  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 81220    | 17.445  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 53137    | 18.120  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 75185    | 17.389  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 89328    | 17.876  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.245  | 63   | 187096   | 95.949  | ug/l   | 98       |
| 59) 2-Hexanone                | 9.433  | 43   | 226987   | 91.559  | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.519  | 129  | 61655    | 17.691  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 52535    | 17.373  | ug/l   | 100      |
| 64) Tetrachloroethene         | 9.275  | 164  | 45932    | 17.239  | ug/l   | 97       |
| 65) Chlorobenzene             | 10.080 | 112  | 151755   | 17.336  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 52523    | 17.750  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 264573   | 17.561  | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.299 | 106  | 200944   | 35.769  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 97003    | 17.943  | ug/l   | 96       |
| 70) Styrene                   | 10.653 | 104  | 164340   | 17.991  | ug/l   | 100      |
| 71) Bromoform                 | 10.799 | 173  | 39163    | 17.617  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.964 | 105  | 256220   | 17.329  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 93750    | 16.697  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 76376    | 17.594  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 60088m   | 17.340  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 62108    | 17.202  | ug/l   | 98       |
| 78) n-propylbenzene           | 11.305 | 91   | 305865   | 17.321  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 181694   | 17.021  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 210710   | 17.321  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 10400    | 18.858  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 216515   | 17.207  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 211697   | 17.442  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 213463   | 17.547  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 268675   | 17.860  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 225219   | 17.692  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.970 | 146  | 116436   | 16.881  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.037 | 146  | 120251   | 16.951  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.329 | 91   | 208015   | 17.569  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 37901    | 16.972  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 112636   | 17.205  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 14705    | 17.516  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 71685    | 16.333  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.719 | 225  | 27248    | 17.442  | ug/l   | 98       |
| 95) Naphthalene               | 13.774 | 128  | 212701   | 16.959  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 70071    | 16.938  | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
Data File : VX047430.D  
Acq On : 20 Aug 2025 10:35  
Operator : JC/MD  
Sample : VX0820WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0820WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 01:26:55 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration

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

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

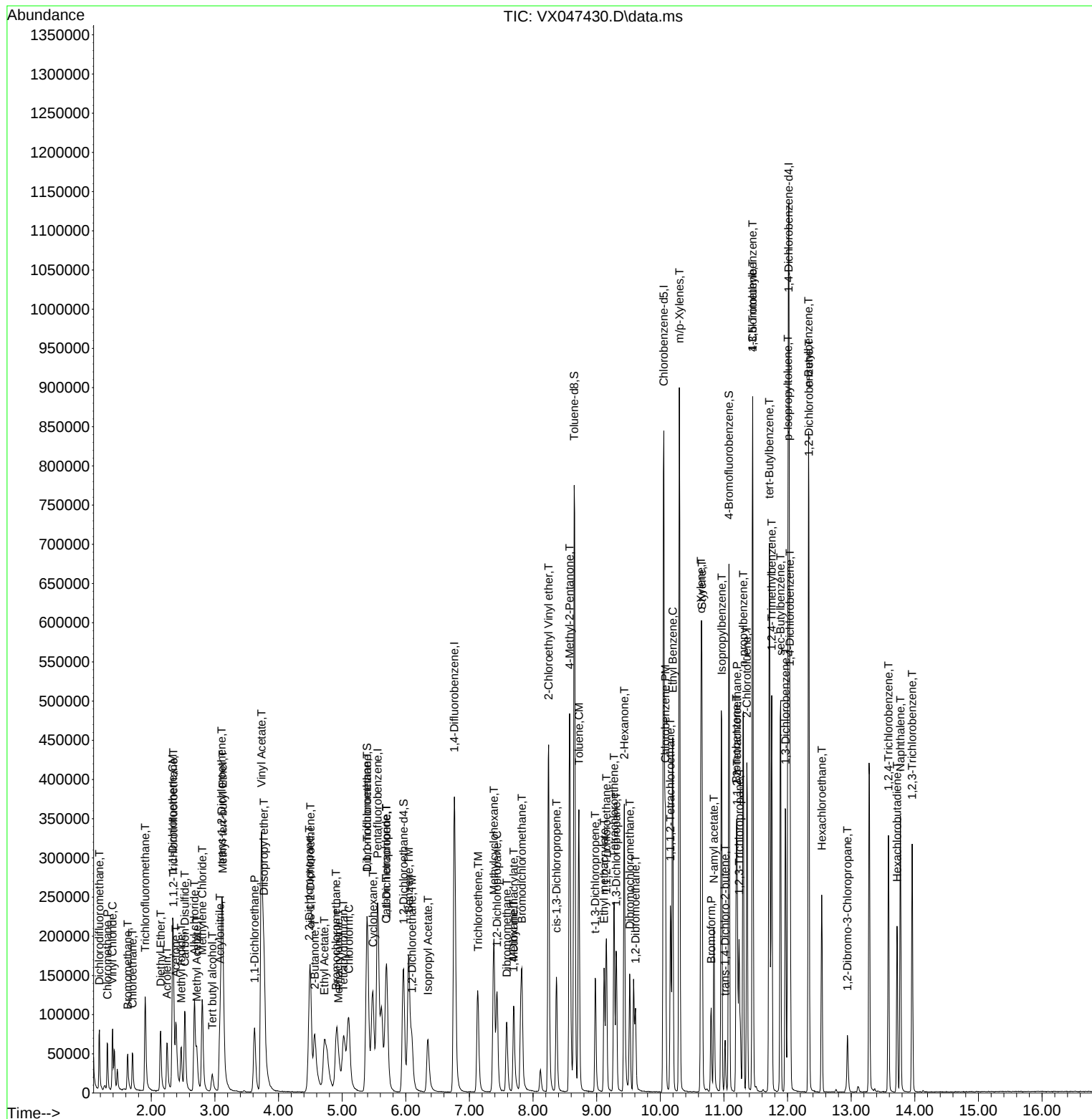
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
Data File : VX047430.D  
Acq On : 20 Aug 2025 10:35  
Operator : JC/MD  
Sample : VX0820WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VX0820WBS01

## Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 01:26:55 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047431.D  
 Acq On : 20 Aug 2025 11:06  
 Operator : JC/MD  
 Sample : VX0820WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0820WBSD01

### Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025  
 Supervised By :Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 01:27:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.556  | 168  | 227988   | 50.000 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 384011   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 353527   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152  | 182846   | 50.000 | ug/l  | 0.00     |

### System Monitoring Compounds

|                           |        |       |          |          |            |      |
|---------------------------|--------|-------|----------|----------|------------|------|
| 33) 1,2-Dichloroethane-d4 | 5.958  | 65    | 162719   | 50.997   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 78 - 117 | Recovery | = 102.000% |      |
| 35) Dibromofluoromethane  | 5.391  | 113   | 125723   | 50.445   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 75 - 124 | Recovery | = 100.900% |      |
| 50) Toluene-d8            | 8.647  | 98    | 446972   | 50.176   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 92 - 112 | Recovery | = 100.360% |      |
| 62) 4-Bromofluorobenzene  | 11.079 | 95    | 169991   | 51.712   | ug/l       | 0.00 |
| Spiked Amount             | 50.000 | Range | 83 - 123 | Recovery | = 103.420% |      |

### Target Compounds

|                              |       |     |        |         |      | Qvalue |
|------------------------------|-------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane   | 1.185 | 85  | 47766  | 16.435  | ug/l | 96     |
| 3) Chloromethane             | 1.313 | 50  | 44193  | 16.903  | ug/l | 100    |
| 4) Vinyl Chloride            | 1.392 | 62  | 53564  | 16.323  | ug/l | 99     |
| 5) Bromomethane              | 1.630 | 94  | 22897  | 17.274  | ug/l | 93     |
| 6) Chloroethane              | 1.703 | 64  | 33153  | 16.512  | ug/l | 94     |
| 7) Trichlorofluoromethane    | 1.904 | 101 | 80790  | 16.644  | ug/l | 97     |
| 8) Diethyl Ether             | 2.148 | 74  | 30154  | 17.643  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluo... | 2.349 | 101 | 49180  | 17.466  | ug/l | 99     |
| 10) Methyl Iodide            | 2.471 | 142 | 62366  | 12.925  | ug/l | 98     |
| 11) Tert butyl alcohol       | 2.959 | 59  | 28284  | 101.896 | ug/l | 99     |
| 12) 1,1-Dichloroethene       | 2.337 | 96  | 46858  | 16.324  | ug/l | 96     |
| 13) Acrolein                 | 2.251 | 56  | 55323  | 94.415  | ug/l | 99     |
| 14) Allyl chloride           | 2.678 | 41  | 85637  | 17.176  | ug/l | 95     |
| 15) Acrylonitrile            | 3.081 | 53  | 130185 | 97.058  | ug/l | 99     |
| 16) Acetone                  | 2.392 | 43  | 106316 | 88.645  | ug/l | 99     |
| 17) Carbon Disulfide         | 2.526 | 76  | 134531 | 15.531  | ug/l | 99     |
| 18) Methyl Acetate           | 2.715 | 43  | 61940  | 19.929  | ug/l | 99     |
| 19) Methyl tert-butyl Ether  | 3.123 | 73  | 156324 | 17.901  | ug/l | 99     |
| 20) Methylene Chloride       | 2.800 | 84  | 55948  | 17.617  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene | 3.105 | 96  | 50391  | 16.539  | ug/l | 95     |
| 22) Diisopropyl ether        | 3.769 | 45  | 181876 | 18.455  | ug/l | 94     |
| 23) Vinyl Acetate            | 3.733 | 43  | 729825 | 90.349  | ug/l | 100    |
| 24) 1,1-Dichloroethane       | 3.623 | 63  | 97939  | 17.582  | ug/l | 99     |
| 25) 2-Butanone               | 4.568 | 43  | 156361 | 99.545  | ug/l | 95     |
| 26) 2,2-Dichloropropane      | 4.483 | 77  | 69257  | 16.473  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene   | 4.501 | 96  | 60972  | 17.182  | ug/l | 98     |
| 28) Bromochloromethane       | 4.903 | 49  | 47632  | 20.549  | ug/l | 97     |
| 29) Tetrahydrofuran          | 5.031 | 42  | 97222  | 95.762  | ug/l | 97     |
| 30) Chloroform               | 5.099 | 83  | 102109 | 17.961  | ug/l | 100    |
| 31) Cyclohexane              | 5.483 | 56  | 84781  | 16.510  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane    | 5.391 | 97  | 84427  | 17.254  | ug/l | 98     |
| 36) 1,1-Dichloropropene      | 5.702 | 75  | 69369  | 17.632  | ug/l | 99     |
| 37) Ethyl Acetate            | 4.727 | 43  | 69988  | 17.136  | ug/l | 99     |
| 38) Carbon Tetrachloride     | 5.690 | 117 | 73703  | 17.143  | ug/l | 98     |
| 39) Methylcyclohexane        | 7.385 | 83  | 81477  | 16.603  | ug/l | 95     |
| 40) Benzene                  | 6.043 | 78  | 210834 | 17.904  | ug/l | 99     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047431.D  
 Acq On : 20 Aug 2025 11:06  
 Operator : JC/MD  
 Sample : VX0820WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0820WBSD01

### Manual Integrations APPROVED

Reviewed By : John Carlone 08/21/2025  
 Supervised By : Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 01:27:49 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.940  | 41   | 32225    | 18.710  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 6.092  | 62   | 75740    | 18.158  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 6.348  | 43   | 107083   | 18.250  | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 51689    | 17.142  | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 7.433  | 63   | 51821    | 17.566  | ug/l   | 94       |
| 46) Dibromomethane            | 7.586  | 93   | 38833    | 18.131  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.824  | 83   | 79446    | 17.893  | ug/l # | 97       |
| 48) Methyl methacrylate       | 7.696  | 41   | 55754    | 18.306  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.690  | 88   | 13278    | 448.471 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 330877   | 97.994  | ug/l   | 98       |
| 52) Toluene                   | 8.720  | 92   | 131557   | 18.079  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 69086    | 17.828  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 78242    | 17.838  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 52294    | 18.928  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 74450    | 18.278  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 88113    | 18.717  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 185370   | 100.474 | ug/l   | 100      |
| 59) 2-Hexanone                | 9.433  | 43   | 223032   | 95.492  | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.518  | 129  | 60107    | 18.307  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 54038    | 18.968  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 43565    | 17.037  | ug/l   | 96       |
| 65) Chlorobenzene             | 10.079 | 112  | 146221   | 17.405  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 50211    | 17.680  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 249927   | 17.284  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299 | 106  | 191975   | 35.606  | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 89811    | 17.309  | ug/l   | 99       |
| 70) Styrene                   | 10.652 | 104  | 157756   | 17.994  | ug/l   | 100      |
| 71) Bromoform                 | 10.799 | 173  | 38527    | 18.058  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 241936   | 16.908  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.841 | 43   | 93131    | 17.140  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 75532    | 17.979  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 58654m   | 17.490  | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 59608    | 17.060  | ug/l   | 98       |
| 78) n-propylbenzene           | 11.305 | 91   | 287881   | 16.846  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 11.360 | 91   | 172746   | 16.722  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 201744   | 17.136  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 9836     | 18.609  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 205121   | 16.845  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 200091   | 17.036  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 204454   | 17.366  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 254052   | 17.451  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 212198   | 17.225  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 114949   | 17.221  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.036 | 146  | 113624   | 16.551  | ug/l   | 97       |
| 89) n-Butylbenzene            | 12.329 | 91   | 196627   | 17.160  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.536 | 117  | 37123    | 17.177  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 110765   | 17.483  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 14196    | 17.473  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 70584    | 16.618  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.719 | 225  | 27444    | 18.153  | ug/l   | 96       |
| 95) Naphthalene               | 13.774 | 128  | 209954   | 17.297  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 69798    | 17.434  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
Data File : VX047431.D  
Acq On : 20 Aug 2025 11:06  
Operator : JC/MD  
Sample : VX0820WBSD01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0820WBSD01

Manual Integrations  
**APPROVED**

Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025

Quant Time: Aug 21 01:27:49 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration

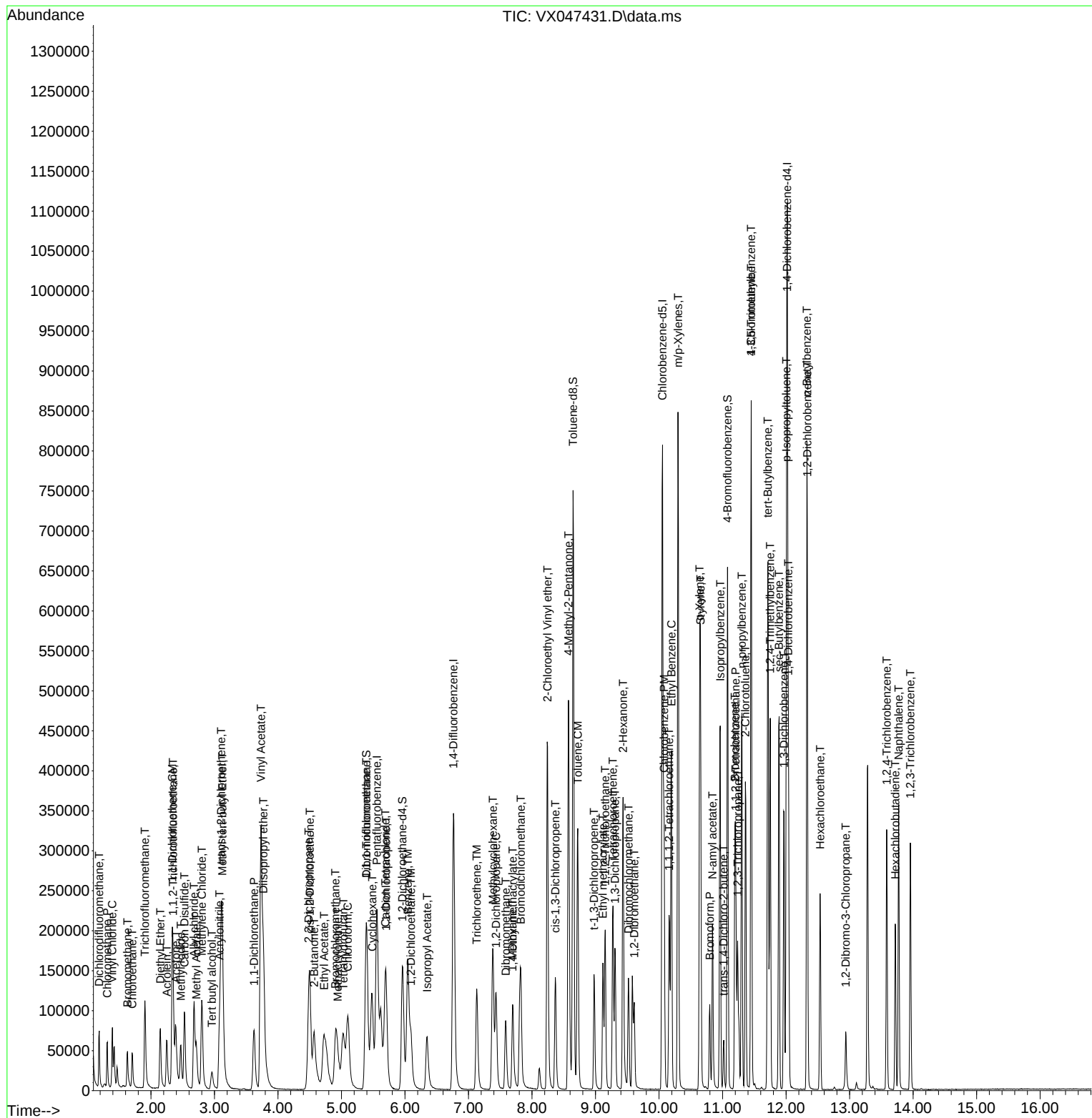
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VX0820WBSD01

## Manual Integrations APPROVED

Reviewed By :John Carlone 08/21/2025  
Supervised By :Mahesh Dadoda 08/22/2025



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VX081525 | Instrument | MSVOA_x |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDIC005   | VX047349.D | 1,2,3-Trichloropropane | JOHN      | 8/18/2025 8:37:53 AM | MMDadoda      | 8/19/2025 1:41:03 AM | Peak Integrated by Software |
| VSTDIC005   | VX047349.D | 1,4-Dioxane            | JOHN      | 8/18/2025 8:37:53 AM | MMDadoda      | 8/19/2025 1:41:03 AM | Peak Integrated by Software |
| VSTDIC005   | VX047349.D | Tetrahydrofuran        | JOHN      | 8/18/2025 8:37:53 AM | MMDadoda      | 8/19/2025 1:41:03 AM | Peak Integrated by Software |
| VSTDIC020   | VX047350.D | 1,2,3-Trichloropropane | JOHN      | 8/18/2025 8:37:58 AM | MMDadoda      | 8/19/2025 1:41:04 AM | Peak Integrated by Software |
| VSTDIC020   | VX047350.D | 1,4-Dioxane            | JOHN      | 8/18/2025 8:37:58 AM | MMDadoda      | 8/19/2025 1:41:04 AM | Peak Integrated by Software |
| VSTDICCC050 | VX047351.D | 1,2,3-Trichloropropane | JOHN      | 8/18/2025 8:42:59 AM | MMDadoda      | 8/19/2025 1:41:07 AM | Peak Integrated by Software |
| VSTDIC100   | VX047352.D | 1,2,3-Trichloropropane | JOHN      | 8/18/2025 8:43:03 AM | MMDadoda      | 8/19/2025 1:41:08 AM | Peak Integrated by Software |
| VSTDIC150   | VX047353.D | 1,2,3-Trichloropropane | JOHN      | 8/18/2025 8:43:07 AM | MMDadoda      | 8/19/2025 1:41:10 AM | Peak Integrated by Software |
| VSTDIC001   | VX047356.D | 1,2,3-Trichloropropane | JOHN      | 8/18/2025 8:43:18 AM | MMDadoda      | 8/19/2025 1:41:24 AM | Peak Integrated by Software |
| VSTDIC001   | VX047356.D | 1,4-Dichlorobenzene    | JOHN      | 8/18/2025 8:43:18 AM | MMDadoda      | 8/19/2025 1:41:24 AM | Peak Integrated by Software |
| VSTDIC001   | VX047356.D | 1,4-Dioxane            | JOHN      | 8/18/2025 8:43:18 AM | MMDadoda      | 8/19/2025 1:41:24 AM | Peak Integrated by Software |
| VSTDIC001   | VX047356.D | Allyl chloride         | JOHN      | 8/18/2025 8:43:18 AM | MMDadoda      | 8/19/2025 1:41:24 AM | Peak Integrated by Software |
| VSTDIC001   | VX047356.D | Ethyl Acetate          | JOHN      | 8/18/2025 8:43:18 AM | MMDadoda      | 8/19/2025 1:41:24 AM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

VX081525

Instrument

MSVOA\_x

| Sample ID  | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDICC001 | VX047356.D | Methacrylonitrile      | JOHN      | 8/18/2025 8:43:18 AM | MMDadoda      | 8/19/2025 1:41:24 AM | Peak Integrated by Software |
| VSTDICC001 | VX047356.D | Methyl methacrylate    | JOHN      | 8/18/2025 8:43:18 AM | MMDadoda      | 8/19/2025 1:41:24 AM | Peak Integrated by Software |
| VSTDICC001 | VX047356.D | Tetrahydrofuran        | JOHN      | 8/18/2025 8:43:18 AM | MMDadoda      | 8/19/2025 1:41:24 AM | Peak Integrated by Software |
| VSTDICV050 | VX047357.D | 1,2,3-Trichloropropane | JOHN      | 8/18/2025 8:43:25 AM | MMDadoda      | 8/19/2025 1:41:26 AM | Peak Integrated by Software |
| VSTDICV050 | VX047357.D | 1,4-Dioxane            | JOHN      | 8/18/2025 8:43:25 AM | MMDadoda      | 8/19/2025 1:41:26 AM | Peak Integrated by Software |
| VSTDCCC050 | VX047369.D | 1,2,3-Trichloropropane | JOHN      | 8/18/2025 8:43:44 AM | MMDadoda      | 8/19/2025 1:41:35 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VX082025 | Instrument | MSVOA_x |
|-----------|----------|------------|---------|

| Sample ID    | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|--------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDCCC050   | VX047427.D | 1,2,3-Trichloropropane | JOHN      | 8/21/2025 8:44:58 AM | MMDadoda      | 8/22/2025 1:13:01 AM | Peak Integrated by Software |
| VX0820WBS01  | VX047430.D | 1,2,3-Trichloropropane | JOHN      | 8/21/2025 8:45:03 AM | MMDadoda      | 8/22/2025 1:13:04 AM | Peak Integrated by Software |
| VX0820WBSD01 | VX047431.D | 1,2,3-Trichloropropane | JOHN      | 8/21/2025 8:45:08 AM | MMDadoda      | 8/22/2025 1:13:06 AM | Peak Integrated by Software |
| Q2878-01     | VX047450.D | Chloroform             | JOHN      | 8/21/2025 8:45:32 AM | MMDadoda      | 8/22/2025 1:13:14 AM | Peak Integrated by Software |
| Q2878-01DL   | VX047451.D | Tetrahydrofuran        | JOHN      | 8/21/2025 8:45:37 AM | MMDadoda      | 8/22/2025 1:13:16 AM | Peak Integrated by Software |
| VSTDCCC050   | VX047453.D | 1,2,3-Trichloropropane | JOHN      | 8/21/2025 8:45:42 AM | MMDadoda      | 8/22/2025 1:13:19 AM | Peak Integrated by Software |

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QC Batch ID # VX081525**

|                          |                                                       |                   |                                   |
|--------------------------|-------------------------------------------------------|-------------------|-----------------------------------|
| Review By                | John Carlone                                          | Review On         | 8/18/2025 8:45:53 AM              |
| Supervise By             | Maresh Dadoda                                         | Supervise On      | 8/19/2025 1:41:47 AM              |
| SubDirectory             | VX081525                                              | HP Acquire Method | HP Processing Method 82X081525W.M |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                      |                   |                                   |
| Tune/Reschk              | VP135148                                              |                   |                                   |
| Initial Calibration Stds | VP135153,VP135154,VP135155,VP135156,VP135157,VP135158 |                   |                                   |
| CCC                      | VP135152                                              |                   |                                   |
| Internal Standard/PEM    |                                                       |                   |                                   |
| ICV/I.BLK                | VP135159                                              |                   |                                   |
| Surrogate Standard       |                                                       |                   |                                   |
| MS/MSD Standard          |                                                       |                   |                                   |
| LCS Standard             |                                                       |                   |                                   |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | BFB          | VX047347.D     | 15 Aug 2025 08:28 | JC/MD    | Ok     |
| 2   | VSTDIC001    | VX047348.D     | 15 Aug 2025 09:18 | JC/MD    | Not Ok |
| 3   | VSTDIC005    | VX047349.D     | 15 Aug 2025 09:40 | JC/MD    | Ok,M   |
| 4   | VSTDIC020    | VX047350.D     | 15 Aug 2025 10:01 | JC/MD    | Ok,M   |
| 5   | VSTDIC050    | VX047351.D     | 15 Aug 2025 10:22 | JC/MD    | Ok,M   |
| 6   | VSTDIC100    | VX047352.D     | 15 Aug 2025 10:43 | JC/MD    | Ok,M   |
| 7   | VSTDIC150    | VX047353.D     | 15 Aug 2025 11:05 | JC/MD    | Ok,M   |
| 8   | IBLK         | VX047354.D     | 15 Aug 2025 11:26 | JC/MD    | Ok     |
| 9   | VSTDIC001    | VX047355.D     | 15 Aug 2025 12:08 | JC/MD    | Not Ok |
| 10  | VSTDIC001    | VX047356.D     | 15 Aug 2025 12:30 | JC/MD    | Ok,M   |
| 11  | VSTDICV050   | VX047357.D     | 15 Aug 2025 13:11 | JC/MD    | Ok,M   |
| 12  | VX0815WBL01  | VX047358.D     | 15 Aug 2025 13:39 | JC/MD    | Ok     |
| 13  | VX0815MBL01  | VX047359.D     | 15 Aug 2025 14:00 | JC/MD    | Ok     |
| 14  | VX0815WBS01  | VX047360.D     | 15 Aug 2025 14:21 | JC/MD    | Ok,M   |
| 15  | VX0815WBSD01 | VX047361.D     | 15 Aug 2025 14:49 | JC/MD    | Ok,M   |
| 16  | Q2880-01     | VX047362.D     | 15 Aug 2025 15:10 | JC/MD    | Ok     |
| 17  | Q2880-02     | VX047363.D     | 15 Aug 2025 15:32 | JC/MD    | Ok     |
| 18  | Q2880-03     | VX047364.D     | 15 Aug 2025 15:53 | JC/MD    | Ok     |
| 19  | Q2880-04     | VX047365.D     | 15 Aug 2025 16:15 | JC/MD    | Ok     |
| 20  | Q2886-01     | VX047366.D     | 15 Aug 2025 16:36 | JC/MD    | Ok     |
| 21  | Q2886-02     | VX047367.D     | 15 Aug 2025 16:58 | JC/MD    | ReRun  |

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QC Batch ID # VX081525**

| Review By                | John Carlone                                          | Review On         | 8/18/2025 8:45:53 AM              |
|--------------------------|-------------------------------------------------------|-------------------|-----------------------------------|
| Supervise By             | Mahesh Dadoda                                         | Supervise On      | 8/19/2025 1:41:47 AM              |
| SubDirectory             | VX081525                                              | HP Acquire Method | HP Processing Method 82X081525W.M |
| STD. NAME                | STD REF.#                                             |                   |                                   |
| Tune/Reschk              | VP135148                                              |                   |                                   |
| Initial Calibration Stds | VP135153,VP135154,VP135155,VP135156,VP135157,VP135158 |                   |                                   |
| CCC                      | VP135152                                              |                   |                                   |
| Internal Standard/PEM    |                                                       |                   |                                   |
| ICV/I.BLK                | VP135159                                              |                   |                                   |
| Surrogate Standard       |                                                       |                   |                                   |
| MS/MSD Standard          |                                                       |                   |                                   |
| LCS Standard             |                                                       |                   |                                   |

|    |            |            |                   |       |      |
|----|------------|------------|-------------------|-------|------|
| 22 | Q2837-01   | VX047368.D | 15 Aug 2025 17:19 | JC/MD | Ok,M |
| 23 | VSTDCCC050 | VX047369.D | 15 Aug 2025 17:41 | JC/MD | Ok,M |

M : Manual Integration

A  
B  
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J

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QC Batch ID # VX082025**

|                                                                                                    |               |                   |                      |                      |              |
|----------------------------------------------------------------------------------------------------|---------------|-------------------|----------------------|----------------------|--------------|
| Review By                                                                                          | John Carlone  | Review On         | 8/21/2025 8:55:57 AM |                      |              |
| Supervise By                                                                                       | Maresh Dadoda | Supervise On      | 8/22/2025 1:13:48 AM |                      |              |
| SubDirectory                                                                                       | VX082025      | HP Acquire Method | MSVOA_X              | HP Processing Method | 82X081525W.M |
| STD. NAME                                                                                          |               | STD REF.#         |                      |                      |              |
| Tune/Reschk<br>Initial Calibration Stds                                                            |               | VP135191          |                      |                      |              |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard |               | VP135192,VP135193 |                      |                      |              |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------|----------------|-------------------|----------|----------|
| 1   | BFB          | VX047426.D     | 20 Aug 2025 07:50 | JC/MD    | Ok       |
| 2   | VSTDCCC050   | VX047427.D     | 20 Aug 2025 09:25 | JC/MD    | Ok,M     |
| 3   | VX0820MBL01  | VX047428.D     | 20 Aug 2025 09:46 | JC/MD    | Ok       |
| 4   | VX0820WBL01  | VX047429.D     | 20 Aug 2025 10:07 | JC/MD    | Ok       |
| 5   | VX0820WBS01  | VX047430.D     | 20 Aug 2025 10:35 | JC/MD    | Ok,M     |
| 6   | VX0820WBSD01 | VX047431.D     | 20 Aug 2025 11:06 | JC/MD    | Ok,M     |
| 7   | Q2815-21RE   | VX047432.D     | 20 Aug 2025 11:28 | JC/MD    | Confirms |
| 8   | Q2815-22     | VX047433.D     | 20 Aug 2025 11:49 | JC/MD    | Ok       |
| 9   | Q2815-26     | VX047434.D     | 20 Aug 2025 12:11 | JC/MD    | Ok       |
| 10  | Q2878-01     | VX047435.D     | 20 Aug 2025 12:32 | JC/MD    | Not Ok   |
| 11  | Q2878-05     | VX047436.D     | 20 Aug 2025 12:54 | JC/MD    | Not Ok   |
| 12  | Q2869-03     | VX047437.D     | 20 Aug 2025 13:15 | JC/MD    | Not Ok   |
| 13  | Q2869-04     | VX047438.D     | 20 Aug 2025 13:37 | JC/MD    | Not Ok   |
| 14  | Q2869-05     | VX047439.D     | 20 Aug 2025 13:59 | JC/MD    | Not Ok   |
| 15  | IBLK         | VX047440.D     | 20 Aug 2025 14:20 | JC/MD    | Ok       |
| 16  | Q2878-06     | VX047441.D     | 20 Aug 2025 14:42 | JC/MD    | Ok       |
| 17  | Q2900-07     | VX047442.D     | 20 Aug 2025 15:04 | JC/MD    | ReRun    |
| 18  | Q2900-01     | VX047443.D     | 20 Aug 2025 15:25 | JC/MD    | Ok       |
| 19  | Q2900-02     | VX047444.D     | 20 Aug 2025 15:47 | JC/MD    | Dilution |
| 20  | Q2900-03     | VX047445.D     | 20 Aug 2025 16:09 | JC/MD    | Dilution |
| 21  | Q2900-04     | VX047446.D     | 20 Aug 2025 16:30 | JC/MD    | ReRun    |

Instrument ID: **MSVOA\_X**

**Daily Analysis Runlog For Sequence/QC Batch ID # VX082025**

|                                                                                                    |               |                   |                      |                      |              |
|----------------------------------------------------------------------------------------------------|---------------|-------------------|----------------------|----------------------|--------------|
| Review By                                                                                          | John Carlone  | Review On         | 8/21/2025 8:55:57 AM |                      |              |
| Supervise By                                                                                       | Maresh Dadoda | Supervise On      | 8/22/2025 1:13:48 AM |                      |              |
| SubDirectory                                                                                       | VX082025      | HP Acquire Method | MSVOA_X              | HP Processing Method | 82X081525W.M |
| STD. NAME                                                                                          |               | STD REF.#         |                      |                      |              |
| Tune/Reschk<br>Initial Calibration Stds                                                            |               | VP135191          |                      |                      |              |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard |               | VP135192,VP135193 |                      |                      |              |

|    |            |            |                   |       |          |
|----|------------|------------|-------------------|-------|----------|
| 22 | Q2900-05   | VX047447.D | 20 Aug 2025 16:52 | JC/MD | Dilution |
| 23 | Q2900-06   | VX047448.D | 20 Aug 2025 17:14 | JC/MD | ReRun    |
| 24 | Q2900-08   | VX047449.D | 20 Aug 2025 17:35 | JC/MD | ReRun    |
| 25 | Q2878-01   | VX047450.D | 20 Aug 2025 17:57 | JC/MD | Dilution |
| 26 | Q2878-01DL | VX047451.D | 20 Aug 2025 18:18 | JC/MD | Ok,M     |
| 27 | Q2878-05   | VX047452.D | 20 Aug 2025 18:40 | JC/MD | Ok       |
| 28 | VSTDCCC050 | VX047453.D | 20 Aug 2025 19:01 | JC/MD | Ok,M     |

M : Manual Integration

Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX081525**

|                          |                                                       |                   |                                   |
|--------------------------|-------------------------------------------------------|-------------------|-----------------------------------|
| Review By                | John Carlone                                          | Review On         | 8/18/2025 8:45:53 AM              |
| Supervise By             | Mahesh Dadoda                                         | Supervise On      | 8/19/2025 1:41:47 AM              |
| SubDirectory             | VX081525                                              | HP Acquire Method | HP Processing Method 82X081525W.M |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                      |                   |                                   |
| Tune/Reschk              | VP135148                                              |                   |                                   |
| Initial Calibration Stds | VP135153,VP135154,VP135155,VP135156,VP135157,VP135158 |                   |                                   |
| CCC                      | VP135152                                              |                   |                                   |
| Internal Standard/PEM    |                                                       |                   |                                   |
| ICV/I.BLK                | VP135159                                              |                   |                                   |
| Surrogate Standard       |                                                       |                   |                                   |
| MS/MSD Standard          |                                                       |                   |                                   |
| LCS Standard             |                                                       |                   |                                   |

| Sr# | SampleID     | ClientID         | Data File Name | Date-Time         | Comment     | Operator | Status |
|-----|--------------|------------------|----------------|-------------------|-------------|----------|--------|
| 1   | BFB          | BFB              | VX047347.D     | 15 Aug 2025 08:28 |             | JC/MD    | Ok     |
| 2   | VSTDIC001    | VSTDIC001        | VX047348.D     | 15 Aug 2025 09:18 | Not used    | JC/MD    | Not Ok |
| 3   | VSTDIC005    | VSTDIC005        | VX047349.D     | 15 Aug 2025 09:40 | LR-58,81    | JC/MD    | Ok,M   |
| 4   | VSTDIC020    | VSTDIC020        | VX047350.D     | 15 Aug 2025 10:01 |             | JC/MD    | Ok,M   |
| 5   | VSTDIC050    | VSTDIC050        | VX047351.D     | 15 Aug 2025 10:22 |             | JC/MD    | Ok,M   |
| 6   | VSTDIC100    | VSTDIC100        | VX047352.D     | 15 Aug 2025 10:43 |             | JC/MD    | Ok,M   |
| 7   | VSTDIC150    | VSTDIC150        | VX047353.D     | 15 Aug 2025 11:05 |             | JC/MD    | Ok,M   |
| 8   | IBLK         | IBLK             | VX047354.D     | 15 Aug 2025 11:26 |             | JC/MD    | Ok     |
| 9   | VSTDIC001    | VSTDIC001        | VX047355.D     | 15 Aug 2025 12:08 | Not used    | JC/MD    | Not Ok |
| 10  | VSTDIC001    | VSTDIC001        | VX047356.D     | 15 Aug 2025 12:30 |             | JC/MD    | Ok,M   |
| 11  | VSTDICV050   | ICVVX081525      | VX047357.D     | 15 Aug 2025 13:11 |             | JC/MD    | Ok,M   |
| 12  | VX0815WBL01  | VX0815WBL01      | VX047358.D     | 15 Aug 2025 13:39 |             | JC/MD    | Ok     |
| 13  | VX0815MBL01  | VX0815MBL01      | VX047359.D     | 15 Aug 2025 14:00 |             | JC/MD    | Ok     |
| 14  | VX0815WBS01  | VX0815WBS01      | VX047360.D     | 15 Aug 2025 14:21 |             | JC/MD    | Ok,M   |
| 15  | VX0815WBSD01 | VX0815WBSD01     | VX047361.D     | 15 Aug 2025 14:49 |             | JC/MD    | Ok,M   |
| 16  | Q2880-01     | STORAGE-BLANK-SO | VX047362.D     | 15 Aug 2025 15:10 | vial A pH<2 | JC/MD    | Ok     |
| 17  | Q2880-02     | STORAGE-BLANK-WA | VX047363.D     | 15 Aug 2025 15:32 | vial A pH<2 | JC/MD    | Ok     |
| 18  | Q2880-03     | STORAGE-BLANK-WA | VX047364.D     | 15 Aug 2025 15:53 | vial A pH<2 | JC/MD    | Ok     |

Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX081525**

| Review By                | John Carlone                                          | Review On         | 8/18/2025 8:45:53 AM              |
|--------------------------|-------------------------------------------------------|-------------------|-----------------------------------|
| Supervise By             | Maresh Dadoda                                         | Supervise On      | 8/19/2025 1:41:47 AM              |
| SubDirectory             | VX081525                                              | HP Acquire Method | HP Processing Method 82X081525W.M |
| STD. NAME                | STD REF.#                                             |                   |                                   |
| Tune/Reschk              | VP135148                                              |                   |                                   |
| Initial Calibration Stds | VP135153,VP135154,VP135155,VP135156,VP135157,VP135158 |                   |                                   |
| CCC                      | VP135152                                              |                   |                                   |
| Internal Standard/PEM    |                                                       |                   |                                   |
| ICV/I.BLK                | VP135159                                              |                   |                                   |
| Surrogate Standard       |                                                       |                   |                                   |
| MS/MSD Standard          |                                                       |                   |                                   |
| LCS Standard             |                                                       |                   |                                   |

|    |            |                     |            |                   |                            |       |       |
|----|------------|---------------------|------------|-------------------|----------------------------|-------|-------|
| 19 | Q2880-04   | STORAGE-BLANK-SAL   | VX047365.D | 15 Aug 2025 16:15 | vial A pH<2                | JC/MD | Ok    |
| 20 | Q2886-01   | BP-TT182D-TB-202508 | VX047366.D | 15 Aug 2025 16:36 | vial A pH<2                | JC/MD | Ok    |
| 21 | Q2886-02   | BP-TT182D-GW-202508 | VX047367.D | 15 Aug 2025 16:58 | vial A pH<2 Surrogate Fail | JC/MD | ReRun |
| 22 | Q2837-01   | TW-WTS-13           | VX047368.D | 15 Aug 2025 17:19 | vial B pH<2                | JC/MD | Ok,M  |
| 23 | VSTDCCC050 | VSTDCCC050EC        | VX047369.D | 15 Aug 2025 17:41 |                            | JC/MD | Ok,M  |

M : Manual Integration

Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX082025**

|                                                                                                    |                   |                   |                                           |
|----------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------------------------------|
| Review By                                                                                          | John Carlone      | Review On         | 8/21/2025 8:55:57 AM                      |
| Supervise By                                                                                       | Maresh Dadoda     | Supervise On      | 8/22/2025 1:13:48 AM                      |
| SubDirectory                                                                                       | VX082025          | HP Acquire Method | MSVOA_X HP Processing Method 82X081525W.M |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>  |                   |                                           |
| Tune/Reschk<br>Initial Calibration Stds                                                            | VP135191          |                   |                                           |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | VP135192,VP135193 |                   |                                           |

| Sr# | SampleID     | ClientID           | Data File Name | Date-Time         | Comment                    | Operator | Status   |
|-----|--------------|--------------------|----------------|-------------------|----------------------------|----------|----------|
| 1   | BFB          | BFB                | VX047426.D     | 20 Aug 2025 07:50 |                            | JC/MD    | Ok       |
| 2   | VSTDCCC050   | VSTDCCC050         | VX047427.D     | 20 Aug 2025 09:25 | pH#Lot#V12668              | JC/MD    | Ok,M     |
| 3   | VX0820MBL01  | VX0820MBL01        | VX047428.D     | 20 Aug 2025 09:46 |                            | JC/MD    | Ok       |
| 4   | VX0820WBL01  | VX0820WBL01        | VX047429.D     | 20 Aug 2025 10:07 |                            | JC/MD    | Ok       |
| 5   | VX0820WBS01  | VX0820WBS01        | VX047430.D     | 20 Aug 2025 10:35 |                            | JC/MD    | Ok,M     |
| 6   | VX0820WBSD01 | VX0820WBSD01       | VX047431.D     | 20 Aug 2025 11:06 |                            | JC/MD    | Ok,M     |
| 7   | Q2815-21RE   | TW-11M-ERE         | VX047432.D     | 20 Aug 2025 11:28 | vial B pH<2 Surrogate Fail | JC/MD    | Confirms |
| 8   | Q2815-22     | TW-11M-S           | VX047433.D     | 20 Aug 2025 11:49 | vial B pH<2                | JC/MD    | Ok       |
| 9   | Q2815-26     | FB                 | VX047434.D     | 20 Aug 2025 12:11 | vial B pH<2 FB             | JC/MD    | Ok       |
| 10  | Q2878-01     | MW-18B-57.5-081325 | VX047435.D     | 20 Aug 2025 12:32 | Run @ lower dilution       | JC/MD    | Not Ok   |
| 11  | Q2878-05     | MW-11B-37.5-081425 | VX047436.D     | 20 Aug 2025 12:54 | Run @ lower dilution       | JC/MD    | Not Ok   |
| 12  | Q2869-03     | MW-01-6.5-081325   | VX047437.D     | 20 Aug 2025 13:15 | Need straight run          | JC/MD    | Not Ok   |
| 13  | Q2869-04     | MW-11A-13.5-081325 | VX047438.D     | 20 Aug 2025 13:37 | Run @ 10x                  | JC/MD    | Not Ok   |
| 14  | Q2869-05     | MW-19B-71.5-081325 | VX047439.D     | 20 Aug 2025 13:59 | Run @ 40x                  | JC/MD    | Not Ok   |
| 15  | IBLK         | IBLK               | VX047440.D     | 20 Aug 2025 14:20 |                            | JC/MD    | Ok       |
| 16  | Q2878-06     | TB01-081425        | VX047441.D     | 20 Aug 2025 14:42 | vial A pH<2 TB             | JC/MD    | Ok       |
| 17  | Q2900-07     | MW-11B-081825      | VX047442.D     | 20 Aug 2025 15:04 | vial A pH<2 Surrogate Fail | JC/MD    | ReRun    |
| 18  | Q2900-01     | MN-9C-081825       | VX047443.D     | 20 Aug 2025 15:25 | vial A pH<2                | JC/MD    | Ok       |

Instrument ID: MSVOA\_X

**Daily Analysis Runlog For Sequence/QC Batch ID # VX082025**

| Review By                                                                                          | John Carlone  | Review On         | 8/21/2025 8:55:57 AM |                      |              |
|----------------------------------------------------------------------------------------------------|---------------|-------------------|----------------------|----------------------|--------------|
| Supervise By                                                                                       | Mahesh Dadoda | Supervise On      | 8/22/2025 1:13:48 AM |                      |              |
| SubDirectory                                                                                       | VX082025      | HP Acquire Method | MSVOA_X              | HP Processing Method | 82X081525W.M |
| STD. NAME                                                                                          |               | STD REF.#         |                      |                      |              |
| Tune/Reschk<br>Initial Calibration Stds                                                            |               | VP135191          |                      |                      |              |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard |               | VP135192,VP135193 |                      |                      |              |

|    |            |                    |            |                   |                                       |       |          |
|----|------------|--------------------|------------|-------------------|---------------------------------------|-------|----------|
| 19 | Q2900-02   | MN-12C-081825      | VX047444.D | 20 Aug 2025 15:47 | vial A pH<2 Surrogate Fail;Need 50X   | JC/MD | Dilution |
| 20 | Q2900-03   | DUP-01-081825      | VX047445.D | 20 Aug 2025 16:09 | vial A pH<2 Surrogate Fail;Need 50X   | JC/MD | Dilution |
| 21 | Q2900-04   | MW-17B-081825      | VX047446.D | 20 Aug 2025 16:30 | vial A pH<2 E flag of previous sample | JC/MD | ReRun    |
| 22 | Q2900-05   | MW-11C-081825      | VX047447.D | 20 Aug 2025 16:52 | vial A pH<2 Need 50X                  | JC/MD | Dilution |
| 23 | Q2900-06   | MW-17C-081825      | VX047448.D | 20 Aug 2025 17:14 | vial A pH<2 Surrogate Fail            | JC/MD | ReRun    |
| 24 | Q2900-08   | TB-081825          | VX047449.D | 20 Aug 2025 17:35 | vial A pH<2 TB,Surrogate Fail         | JC/MD | ReRun    |
| 25 | Q2878-01   | MW-18B-57.5-081325 | VX047450.D | 20 Aug 2025 17:57 | vial A pH<2 Need 10X                  | JC/MD | Dilution |
| 26 | Q2878-01DL | MW-18B-57.5-081325 | VX047451.D | 20 Aug 2025 18:18 | vial B pH<2                           | JC/MD | Ok,M     |
| 27 | Q2878-05   | MW-11B-37.5-081425 | VX047452.D | 20 Aug 2025 18:40 | vial A pH<2                           | JC/MD | Ok       |
| 28 | VSTDCCC050 | VSTDCCC050EC       | VX047453.D | 20 Aug 2025 19:01 |                                       | JC/MD | Ok,M     |

M : Manual Integration

## LAB CHRONICLE

|                 |                                |                   |                                           |
|-----------------|--------------------------------|-------------------|-------------------------------------------|
| <b>OrderID:</b> | Q2878                          | <b>OrderDate:</b> | 8/14/2025 3:49:00 PM                      |
| <b>Client:</b>  | JACOBS Engineering Group, Inc. | <b>Project:</b>   | Former Schlumberger STC PTC Site D3868221 |
| <b>Contact:</b> | John Ynfante                   | <b>Location:</b>  | D31,VOA Ref. #3 Water                     |

| LabID      | ClientID                 | Matrix | Test         | Method   | Sample Date | Prep Date | Anal Date | Received |
|------------|--------------------------|--------|--------------|----------|-------------|-----------|-----------|----------|
| Q2878-01   | MW-18B-57.5-081325       | Water  | VOCMS Group3 | 8260-Low | 08/13/25    |           | 08/20/25  | 08/14/25 |
| Q2878-01DL | MW-18B-57.5-081325<br>DL | Water  | VOCMS Group3 | 8260-Low | 08/13/25    |           | 08/20/25  | 08/14/25 |
| Q2878-05   | MW-11B-37.5-081425       | Water  | VOCMS Group3 | 8260-Low | 08/14/25    |           | 08/20/25  | 08/14/25 |
| Q2878-06   | TB01-081425              | Water  | VOCMS Group3 | 8260-Low | 08/14/25    |           | 08/20/25  | 08/14/25 |