

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047443.D  
 Acq On : 20 Aug 2025 15:25  
 Operator : JC/MD  
 Sample : Q2900-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MN-9C-081825

Quant Time: Aug 21 01:33:13 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

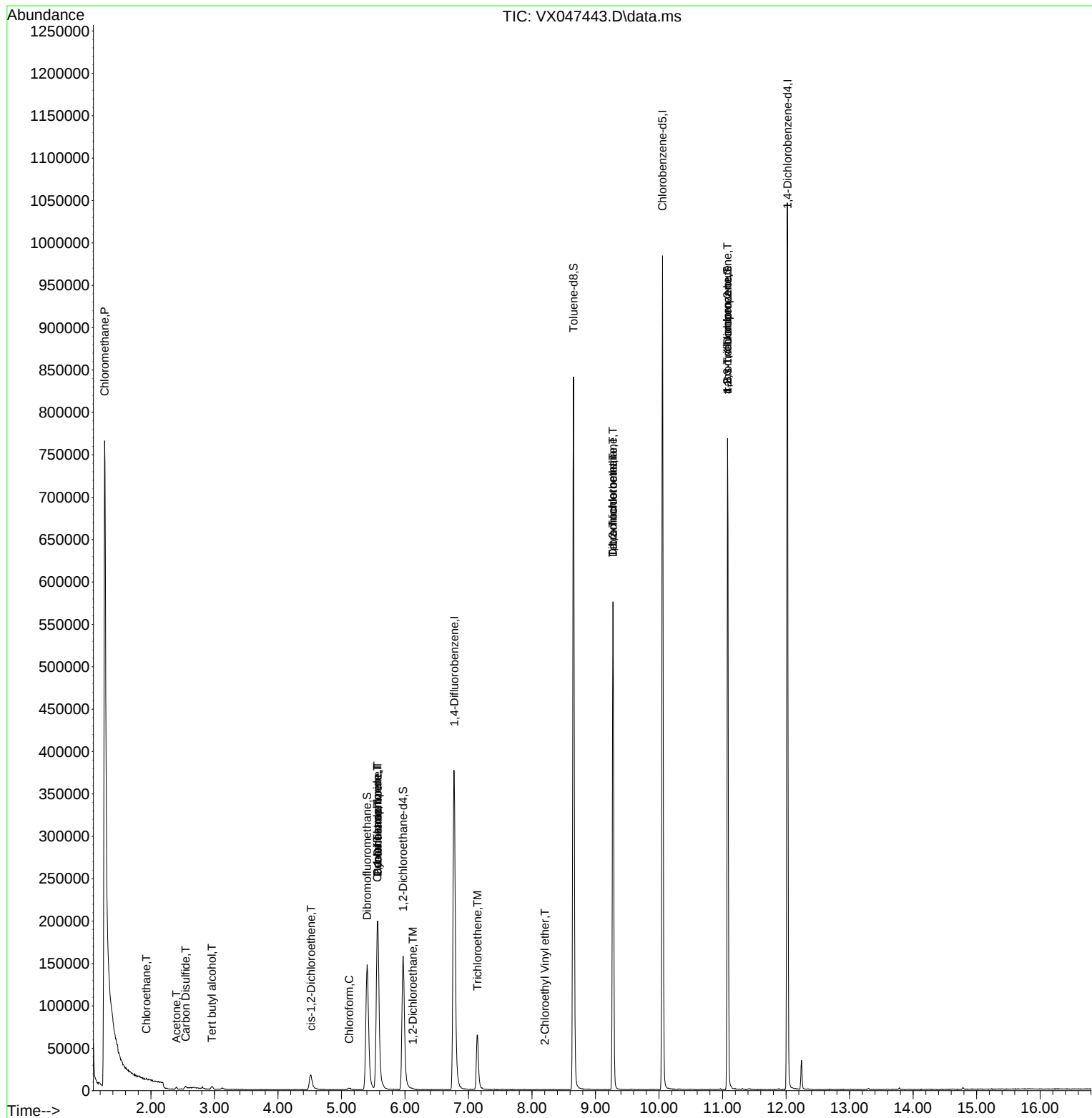
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 5.568  | 168   | 203680   | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.775  | 114   | 413174   | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 412185   | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 214243   | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 5.970  | 65    | 168768   | 59.205   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 118.420%# |          |
| 35) Dibromofluoromethane      | 5.403  | 113   | 138137   | 51.514   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 103.020%  |          |
| 50) Toluene-d8                | 8.653  | 98    | 493451   | 51.484   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 102.960%  |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 207472   | 58.660   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 117.320%  |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 3) Chloromethane              | 1.270  | 50    | 34112    | 14.604   | ug/l #      | 42       |
| 6) Chloroethane               | 1.928  | 64    | 1812     | 1.010    | ug/l #      | 47       |
| 11) Tert butyl alcohol        | 2.959  | 59    | 1340     | 5.404    | ug/l #      | 72       |
| 16) Acetone                   | 2.398  | 43    | 3116     | 2.908    | ug/l        | 94       |
| 17) Carbon Disulfide          | 2.544  | 76    | 4437     | 0.573    | ug/l #      | 92       |
| 27) cis-1,2-Dichloroethene    | 4.519  | 96    | 12398    | 3.911    | ug/l        | 98       |
| 30) Chloroform                | 5.123  | 83    | 2262     | 0.445    | ug/l        | 84       |
| 31) Cyclohexane               | 5.568  | 56    | 4608     | 1.004    | ug/l #      | 3        |
| 36) 1,1-Dichloropropene       | 5.568  | 75    | 17481    | 4.130    | ug/l #      | 47       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 22083    | 4.774    | ug/l #      | 15       |
| 42) 1,2-Dichloroethane        | 6.123  | 62    | 1098     | 0.245    | ug/l #      | 75       |
| 44) Trichloroethene           | 7.141  | 130   | 27675    | 8.530    | ug/l        | 97       |
| 55) 1,1,2-Trichloroethane     | 9.275  | 97    | 894      | 0.301    | ug/l #      | 1        |
| 58) 2-Chloroethyl Vinyl ether | 8.202  | 63    | 48       | 8.377    | ug/l #      | 46       |
| 60) Dibromochloromethane      | 9.275  | 129   | 103821   | 29.389   | ug/l #      | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 105877   | 35.513   | ug/l        | 97       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 106686   | 27.150   | ug/l #      | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 106686   | 107.318  | ug/l #      | 7        |
| -----                         |        |       |          |          |             |          |

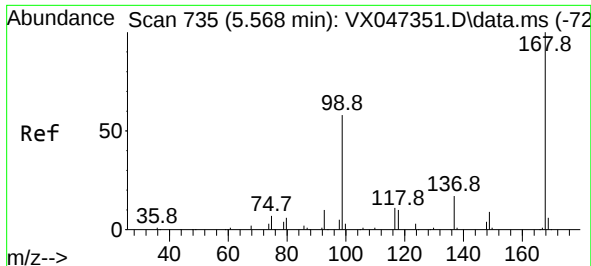
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon Aug 18 04:18:28 2025  
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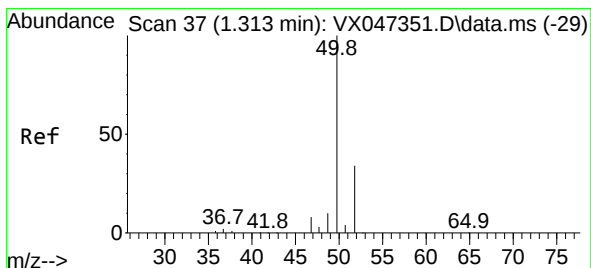
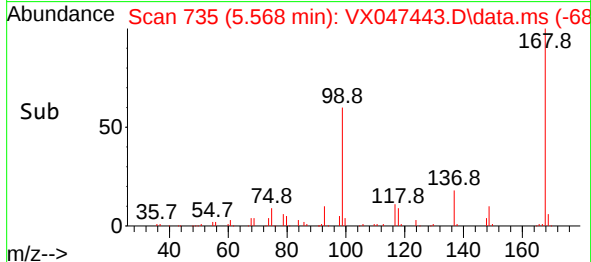
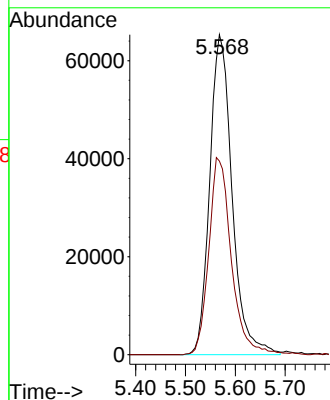
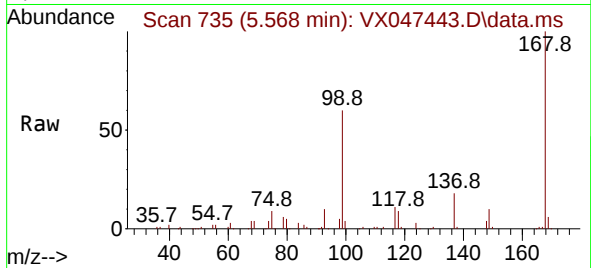




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.568 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

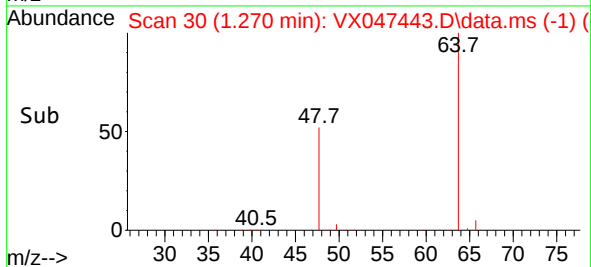
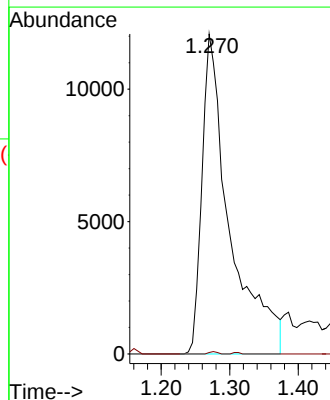
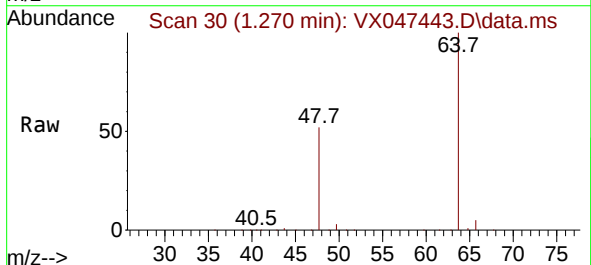
Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

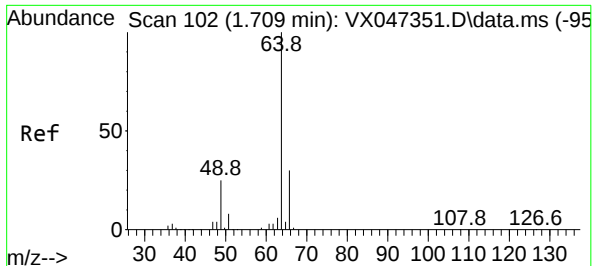
Tgt Ion:168 Resp: 203680  
Ion Ratio Lower Upper  
168 100  
99 60.5 47.9 71.9



#3  
Chloromethane  
Concen: 14.604 ug/l  
RT: 1.270 min Scan# 30  
Delta R.T. -0.043 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion: 50 Resp: 34112  
Ion Ratio Lower Upper  
50 100  
52 0.4 27.0 40.4#

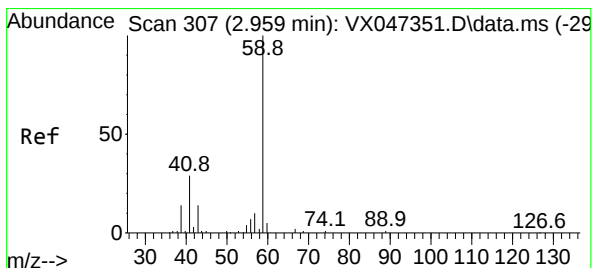
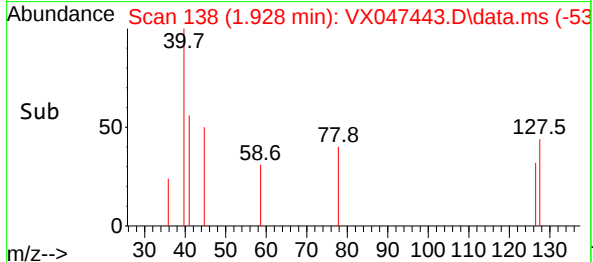
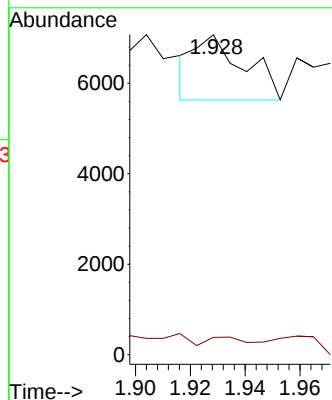
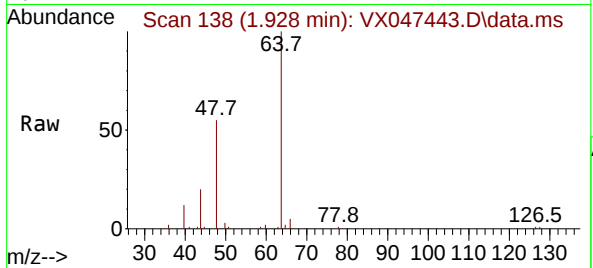




#6  
Chloroethane  
Concen: 1.010 ug/l  
RT: 1.928 min Scan# 11  
Delta R.T. 0.220 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

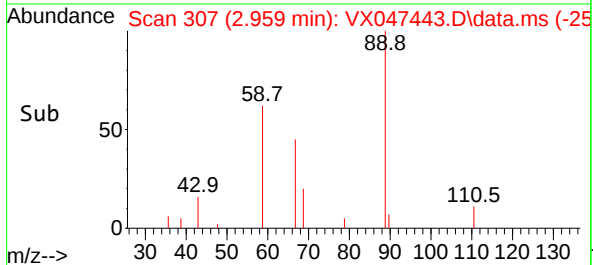
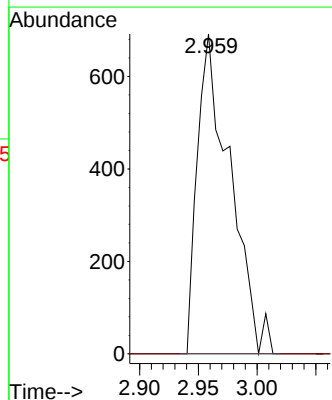
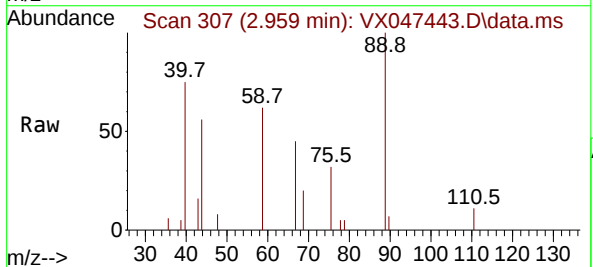
Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

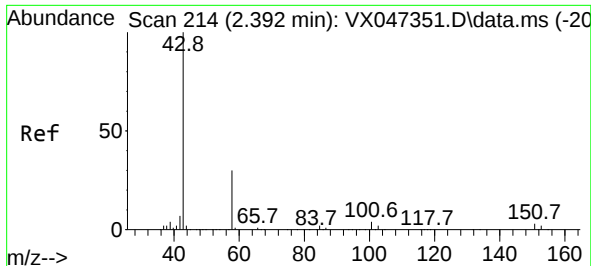
Tgt Ion: 64 Resp: 1812  
Ion Ratio Lower Upper  
64 100  
66 1.5 24.4 36.6#



#11  
Tert butyl alcohol  
Concen: 5.404 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. 0.000 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion: 59 Resp: 1340  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

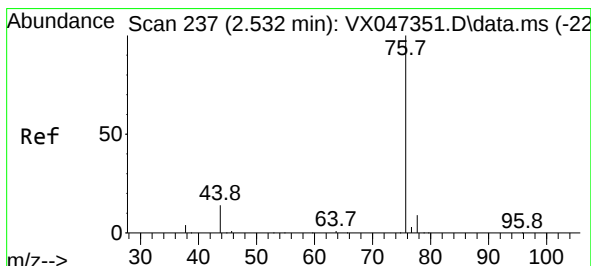
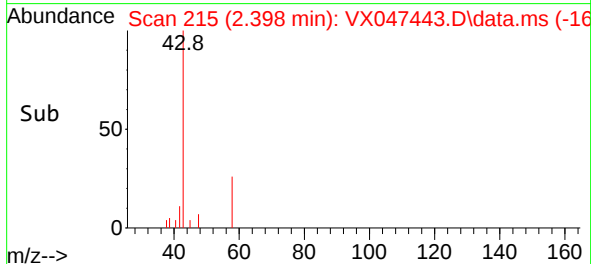
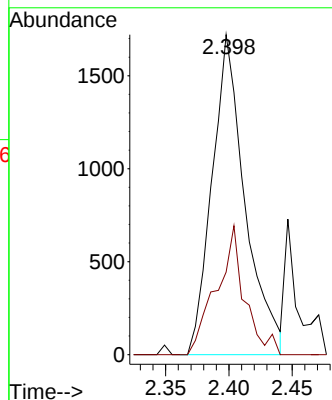
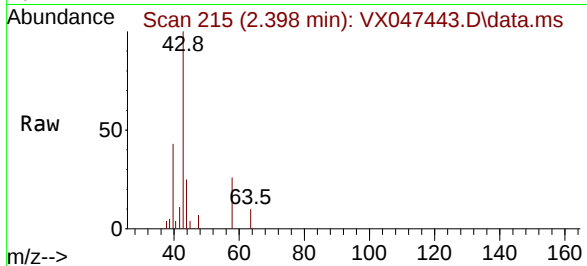




#16  
Acetone  
Concen: 2.908 ug/l  
RT: 2.398 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

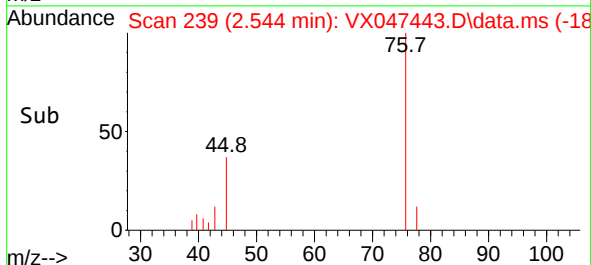
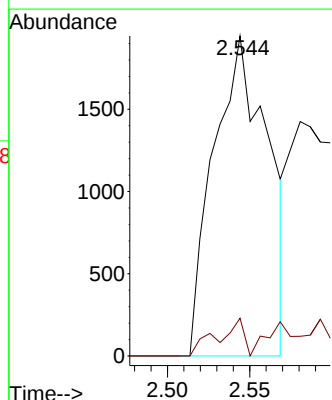
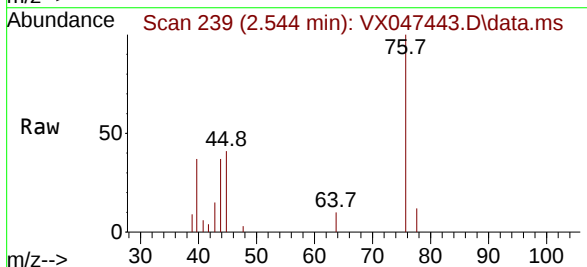
Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

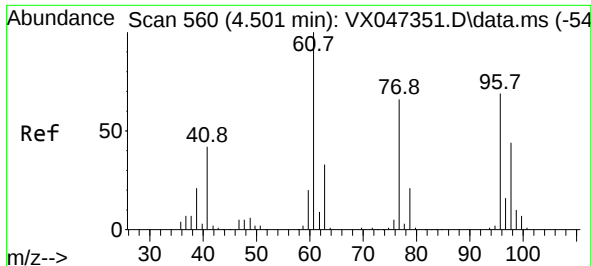
Tgt Ion: 43 Resp: 3116  
Ion Ratio Lower Upper  
43 100  
58 27.8 24.8 37.2



#17  
Carbon Disulfide  
Concen: 0.573 ug/l  
RT: 2.544 min Scan# 239  
Delta R.T. 0.012 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion: 76 Resp: 4437  
Ion Ratio Lower Upper  
76 100  
78 11.8 7.2 10.8#





#27

cis-1,2-Dichloroethene

Concen: 3.911 ug/l

RT: 4.519 min Scan# 5

Delta R.T. 0.018 min

Lab File: VX047443.D

Acq: 20 Aug 2025 15:25

Instrument :

MSVOA\_X

ClientSampleId :

MN-9C-081825

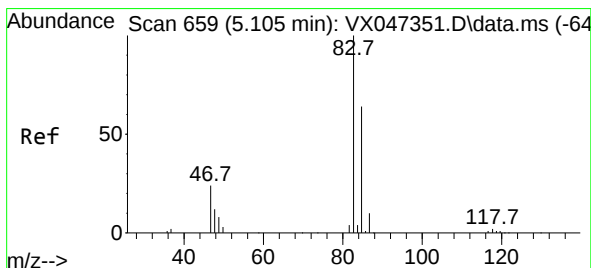
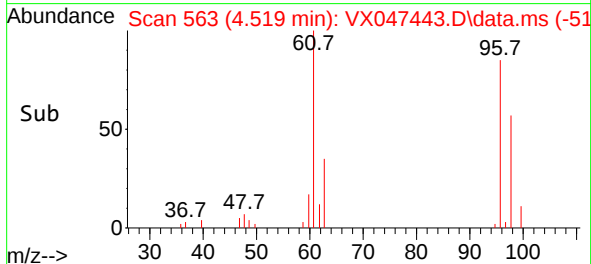
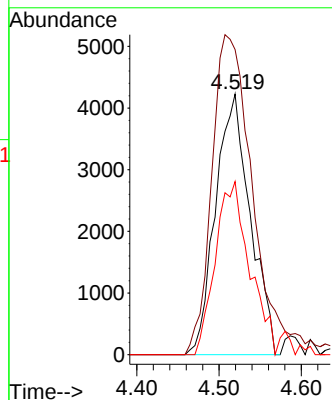
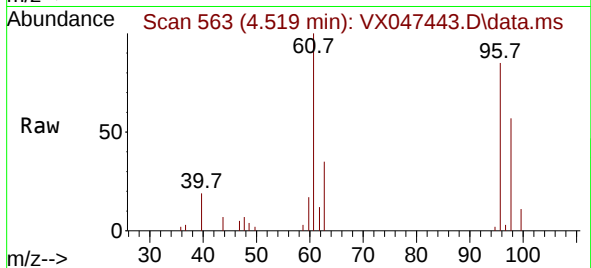
Tgt Ion: 96 Resp: 12398

Ion Ratio Lower Upper

96 100

61 145.1 0.0 296.6

98 65.4 0.0 130.4



#30

Chloroform

Concen: 0.445 ug/l

RT: 5.123 min Scan# 662

Delta R.T. 0.018 min

Lab File: VX047443.D

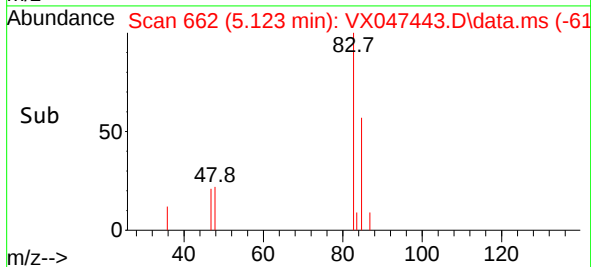
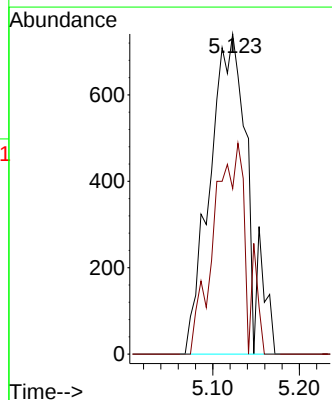
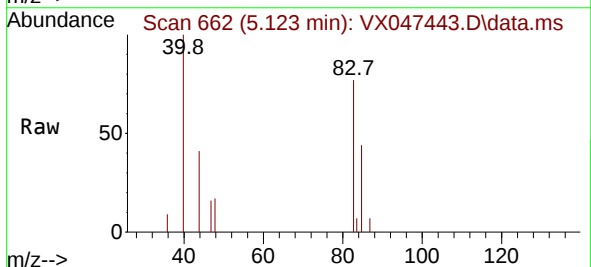
Acq: 20 Aug 2025 15:25

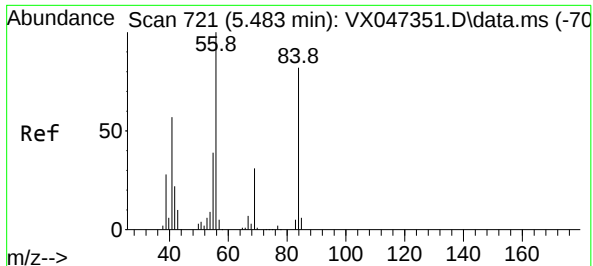
Tgt Ion: 83 Resp: 2262

Ion Ratio Lower Upper

83 100

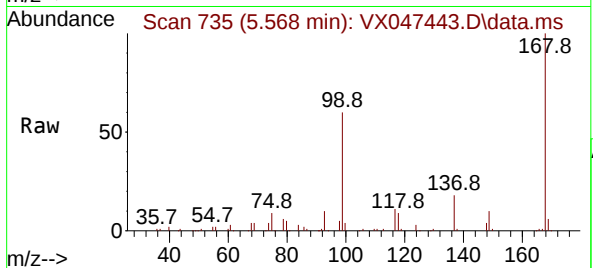
85 51.7 51.2 76.8



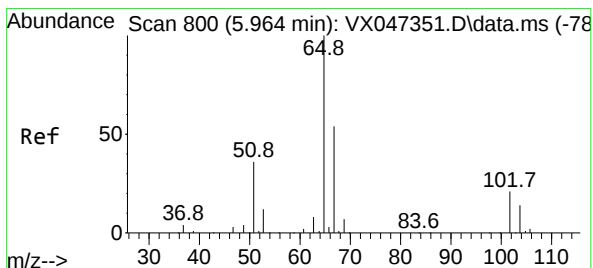
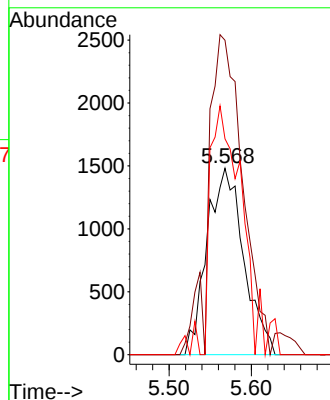
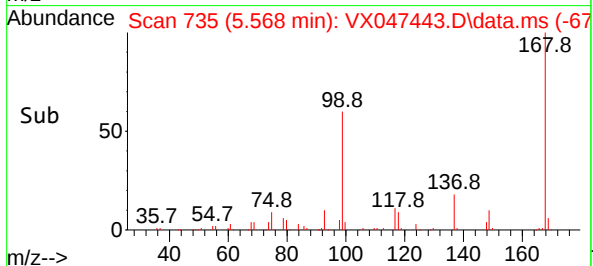


#31  
Cyclohexane  
Concen: 1.004 ug/l  
RT: 5.568 min Scan# 71  
Delta R.T. 0.085 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Instrument :  
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ClientSampleId :  
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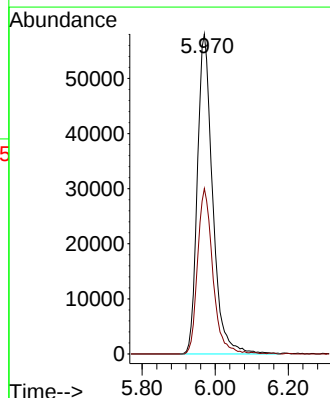
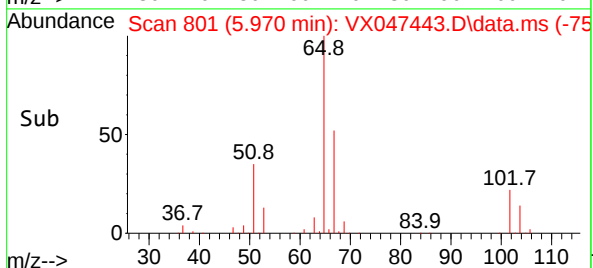
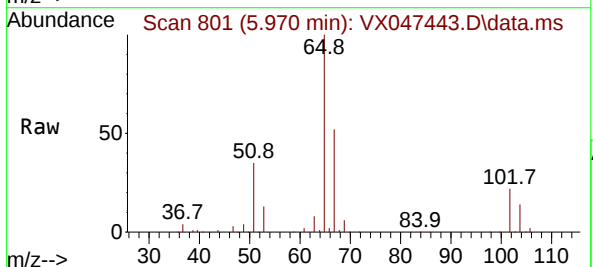


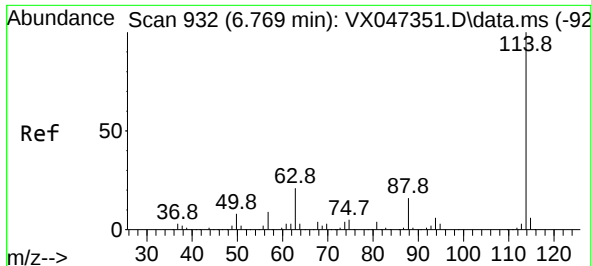
Tgt Ion: 56 Resp: 4608  
Ion Ratio Lower Upper  
56 100  
69 168.6 24.3 36.5#  
84 115.8 65.3 97.9#



#33  
1,2-Dichloroethane-d4  
Concen: 59.205 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion: 65 Resp: 168768  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 106.0

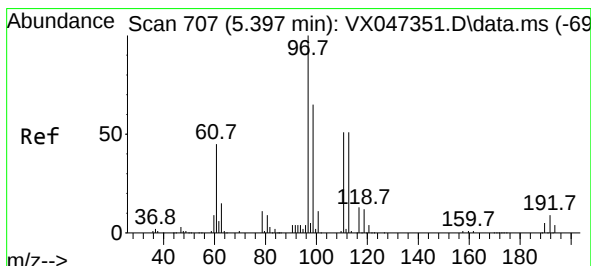
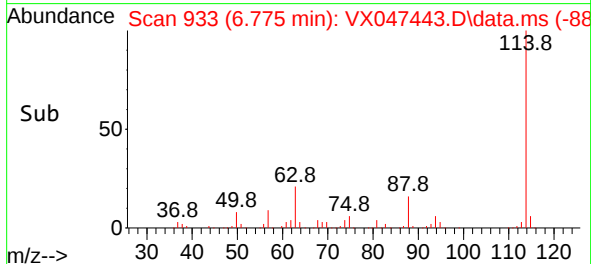
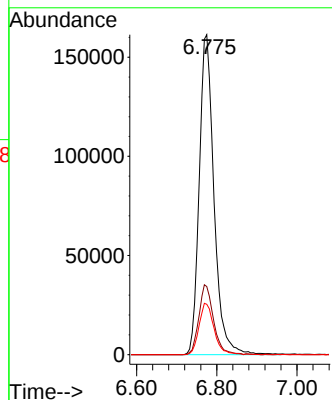
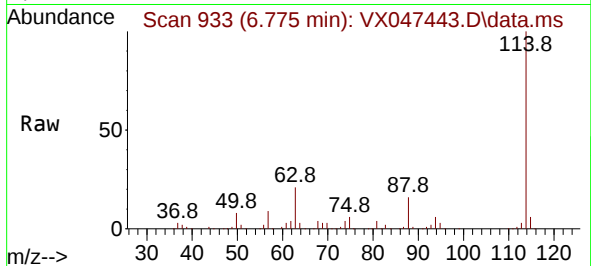




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.775 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

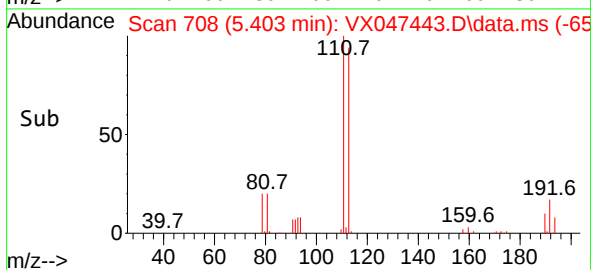
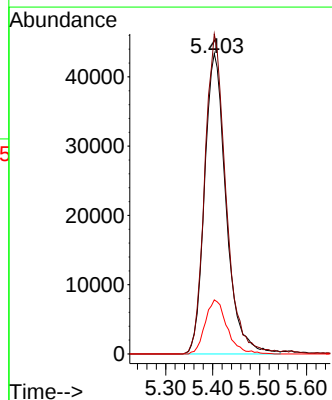
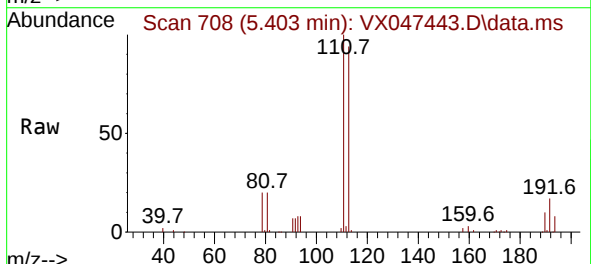
Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

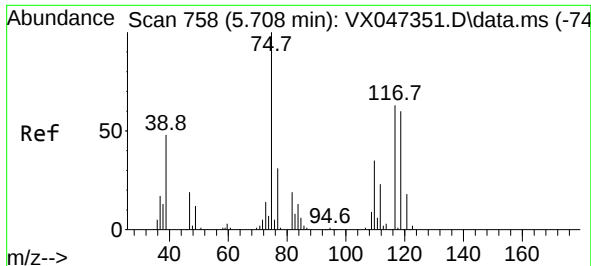
Tgt Ion:114 Resp: 413174  
Ion Ratio Lower Upper  
114 100  
63 21.3 0.0 42.4  
88 15.8 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 51.514 ug/l  
RT: 5.403 min Scan# 708  
Delta R.T. 0.006 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion:113 Resp: 138137  
Ion Ratio Lower Upper  
113 100  
111 104.9 81.4 122.2  
192 18.4 14.1 21.1

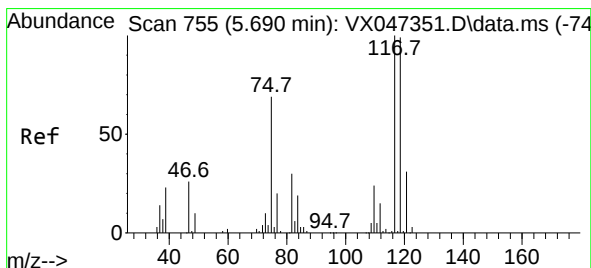
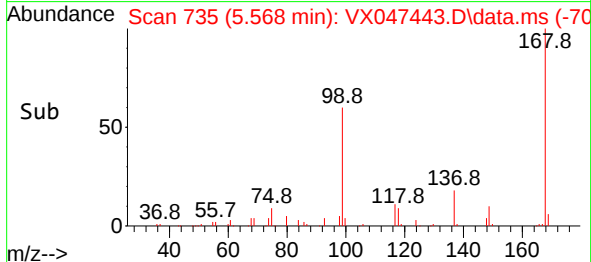
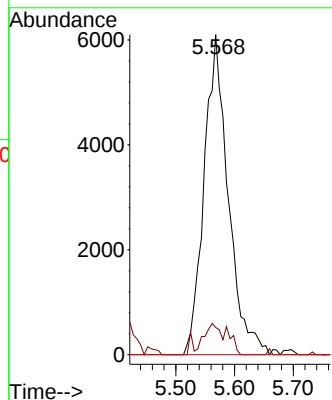
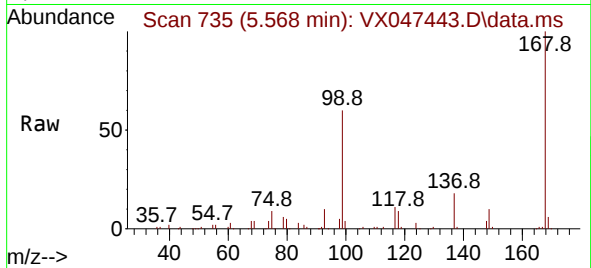




#36  
1,1-Dichloropropene  
Concen: 4.130 ug/l  
RT: 5.568 min Scan# 714  
Delta R.T. -0.140 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

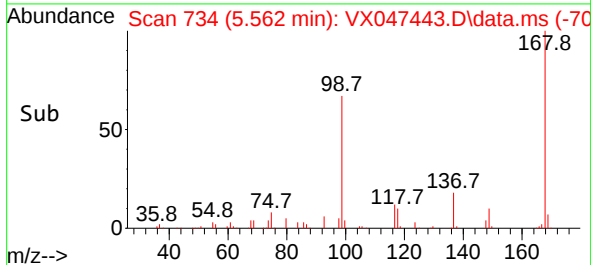
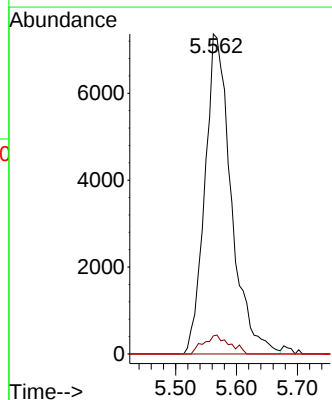
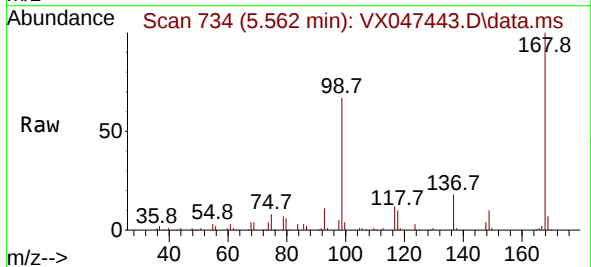
Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

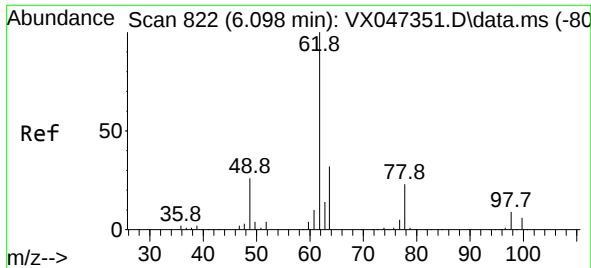
Tgt Ion: 75 Resp: 17481  
Ion Ratio Lower Upper  
75 100  
110 5.5 17.4 52.2#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 4.774 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion: 117 Resp: 22083  
Ion Ratio Lower Upper  
117 100  
119 5.7 78.5 117.7#  
121 0.0 24.7 37.1#





#42

1,2-Dichloroethane

Concen: 0.245 ug/l

RT: 6.123 min Scan# 81

Delta R.T. 0.024 min

Lab File: VX047443.D

Acq: 20 Aug 2025 15:25

Instrument :

MSVOA\_X

ClientSampleId :

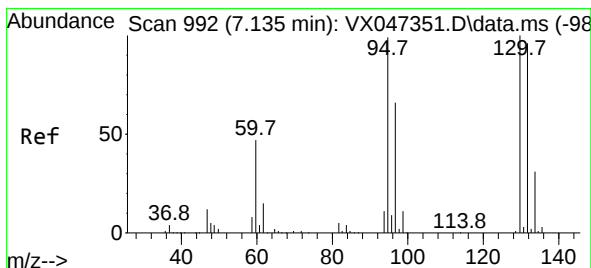
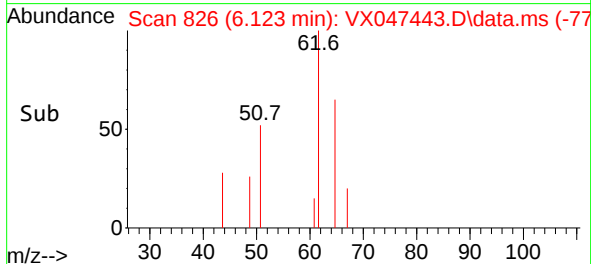
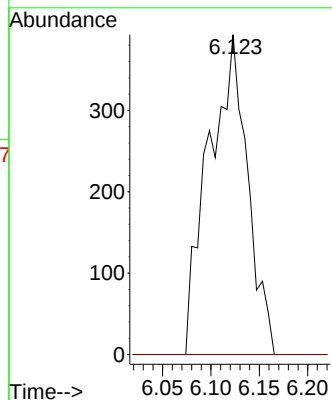
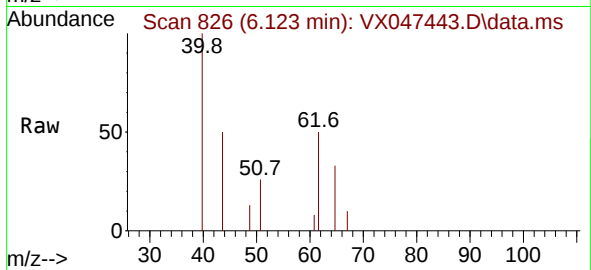
MN-9C-081825

Tgt Ion: 62 Resp: 1098

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#44

Trichloroethene

Concen: 8.530 ug/l

RT: 7.141 min Scan# 993

Delta R.T. 0.006 min

Lab File: VX047443.D

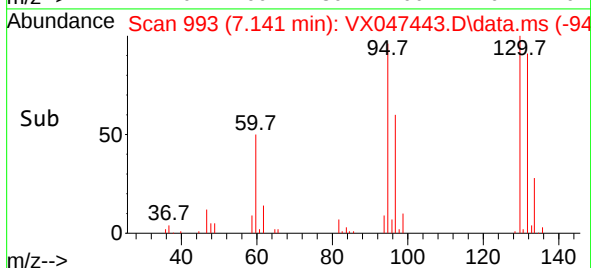
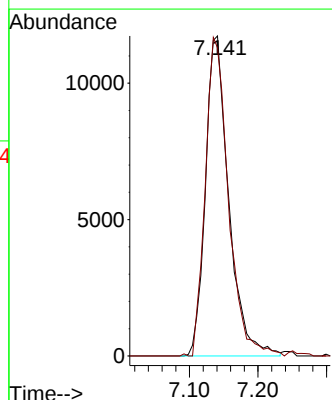
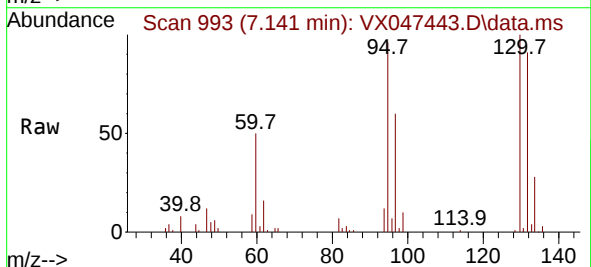
Acq: 20 Aug 2025 15:25

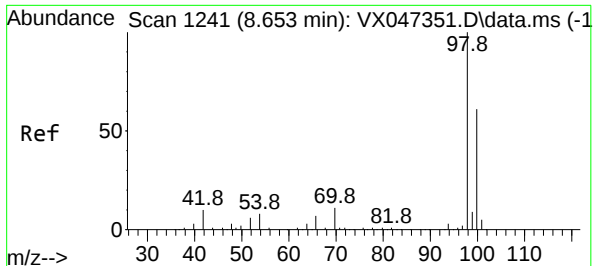
Tgt Ion:130 Resp: 27675

Ion Ratio Lower Upper

130 100

95 96.3 0.0 198.6

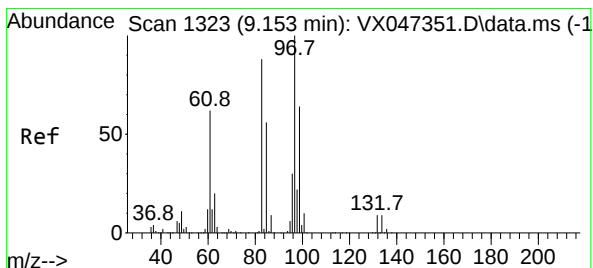
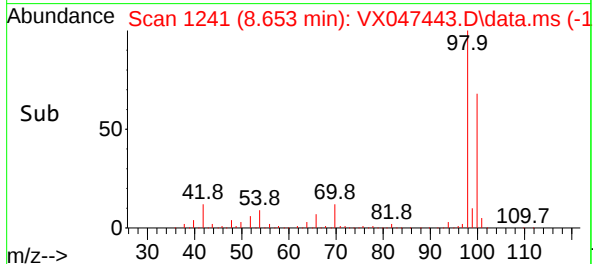
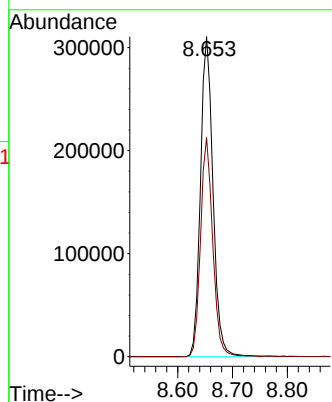
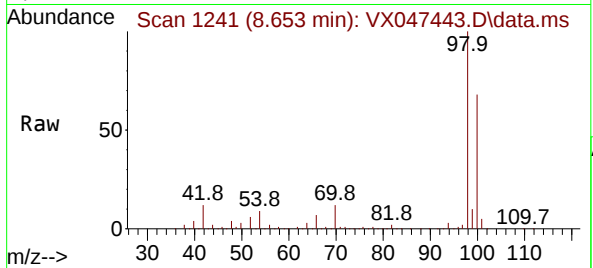




#50  
Toluene-d8  
Concen: 51.484 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

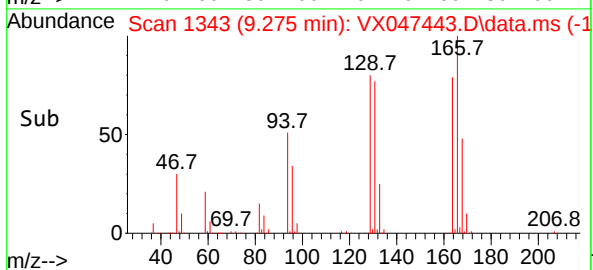
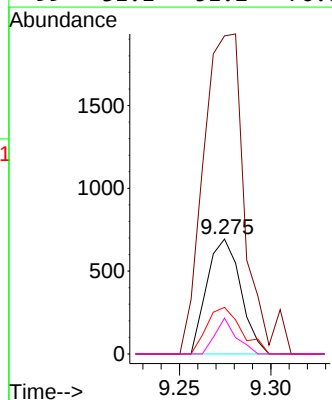
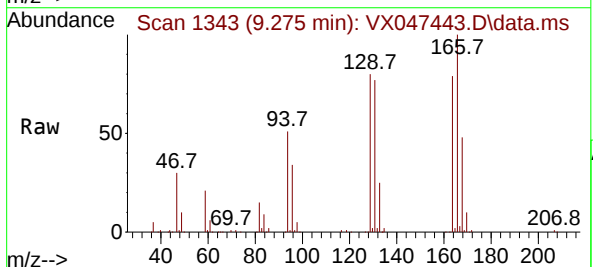
Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

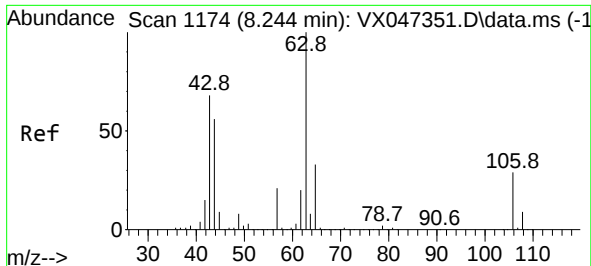
Tgt Ion: 98 Resp: 493451  
Ion Ratio Lower Upper  
98 100  
100 66.6 53.9 80.9



#55  
1,1,2-Trichloroethane  
Concen: 0.301 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.122 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion: 97 Resp: 894  
Ion Ratio Lower Upper  
97 100  
83 276.7 70.6 106.0#  
85 40.5 44.7 67.1#  
99 31.1 51.2 76.8#





#58

2-Chloroethyl Vinyl ether

Concen: 8.377 ug/l

RT: 8.202 min Scan# 1167

Delta R.T. -0.043 min

Lab File: VX047443.D

Acq: 20 Aug 2025 15:25

Instrument :

MSVOA\_X

ClientSampleId :

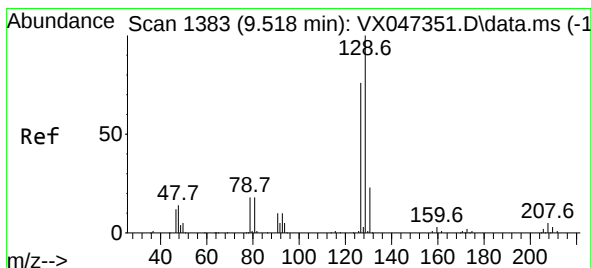
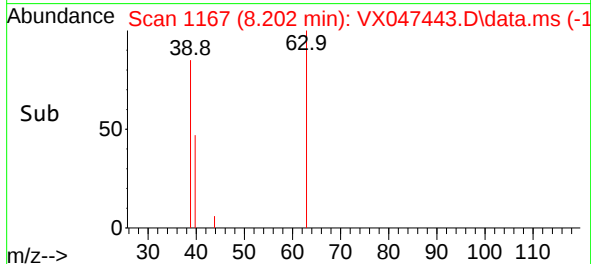
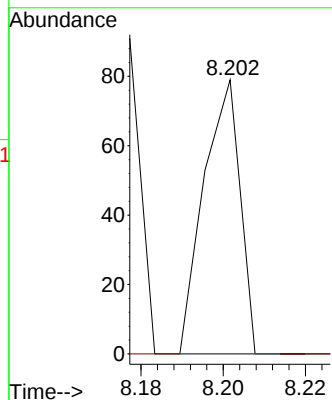
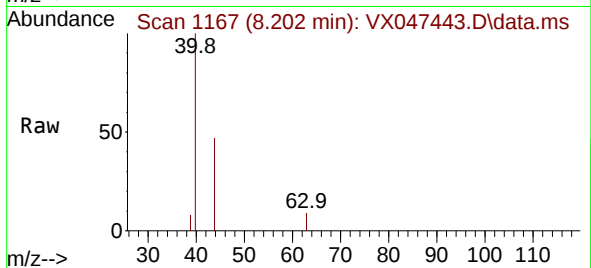
MN-9C-081825

Tgt Ion: 63 Resp: 48

Ion Ratio Lower Upper

63 100

106 0.0 22.8 34.2#



#60

Dibromochloromethane

Concen: 29.389 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.244 min

Lab File: VX047443.D

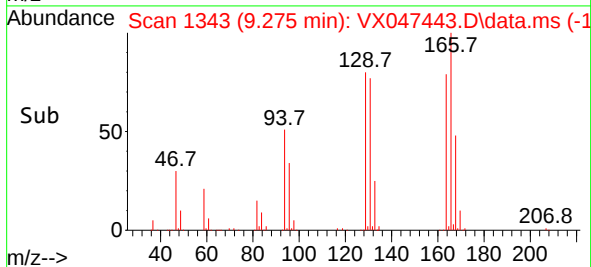
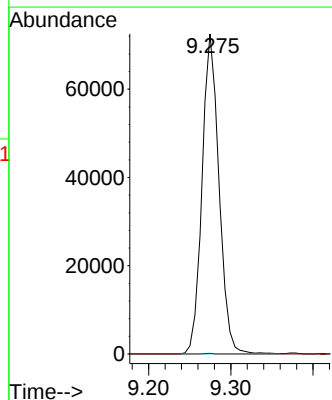
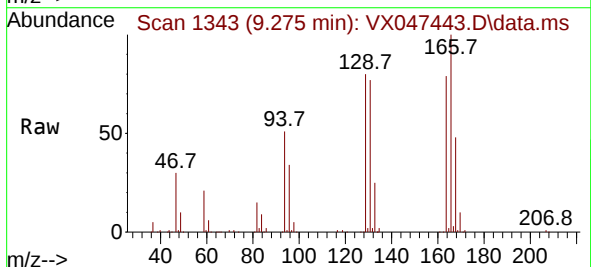
Acq: 20 Aug 2025 15:25

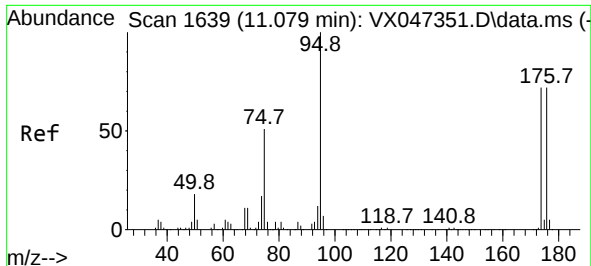
Tgt Ion: 129 Resp: 103821

Ion Ratio Lower Upper

129 100

127 0.1 38.9 116.6#

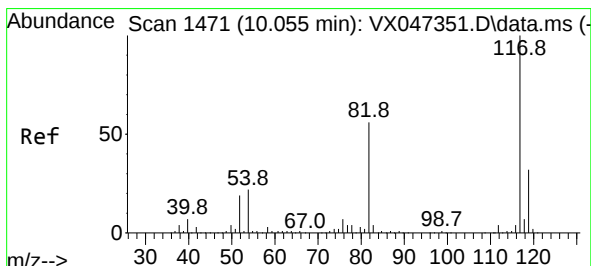
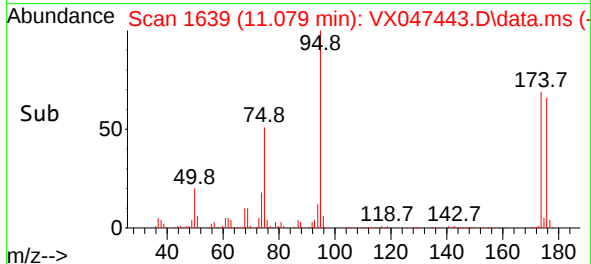
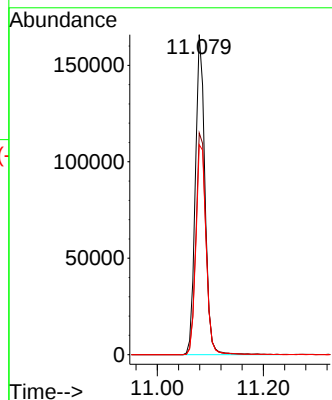
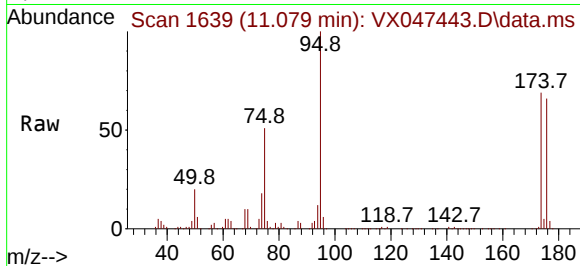




#62  
4-Bromofluorobenzene  
Concen: 58.660 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

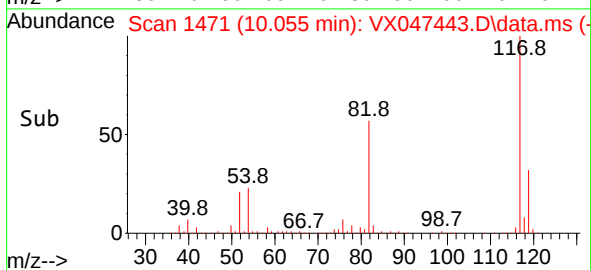
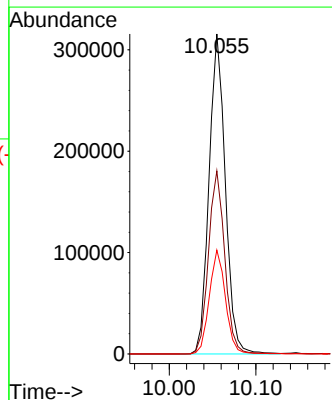
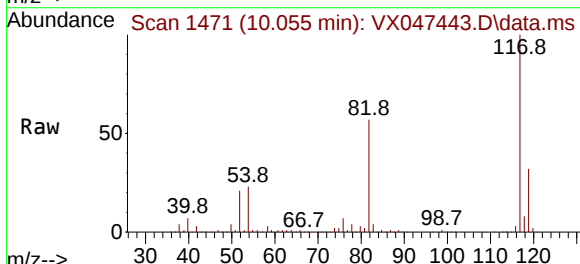
Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

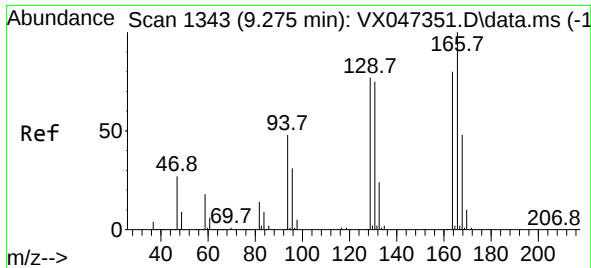
Tgt Ion: 95 Resp: 207472  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 148.0  
176 70.0 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion: 117 Resp: 412185  
Ion Ratio Lower Upper  
117 100  
82 57.2 45.0 67.4  
119 32.4 25.8 38.8



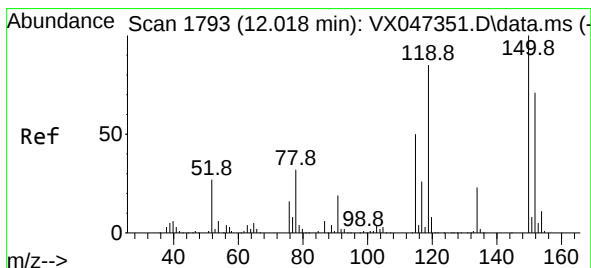
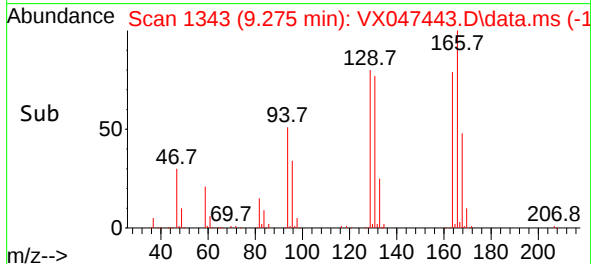
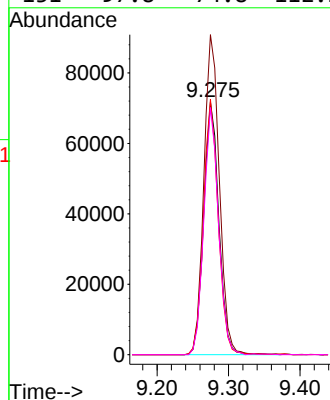
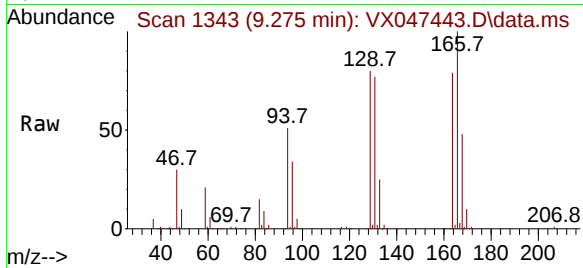


#64  
Tetrachloroethene  
Concen: 35.513 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

Tgt Ion:164 Resp: 105877

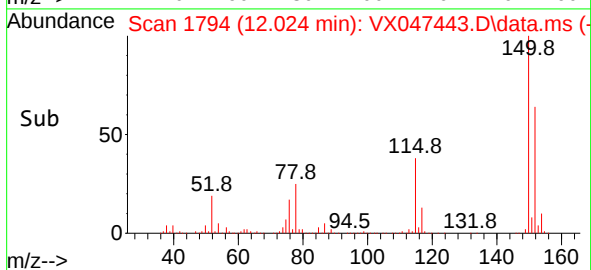
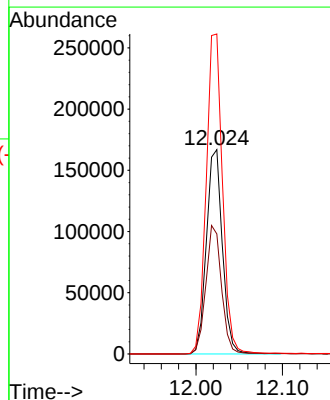
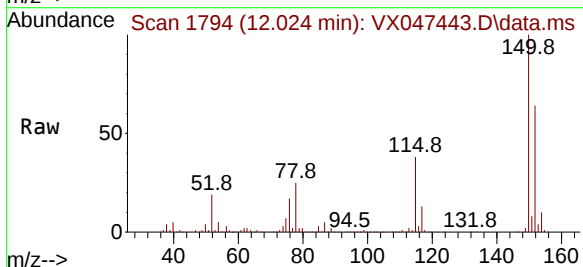
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 126.6 | 100.3 | 150.5 |
| 129 | 101.0 | 77.7  | 116.5 |
| 131 | 97.8  | 74.8  | 112.2 |

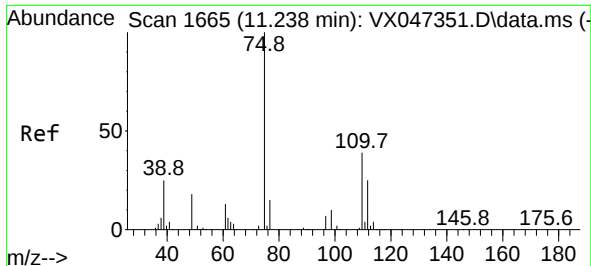


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.006 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion:152 Resp: 214243

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 61.9  | 44.6  | 133.8 |
| 150 | 159.3 | 0.0   | 349.8 |

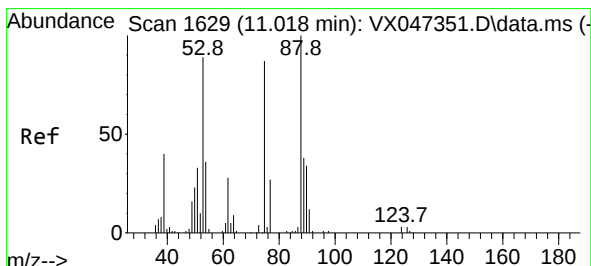
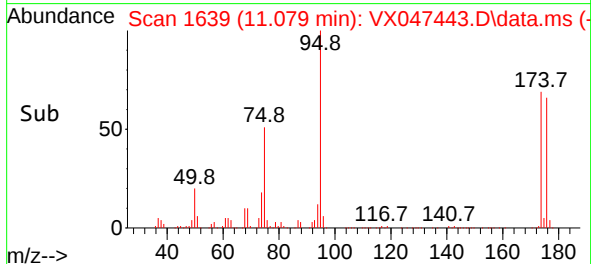
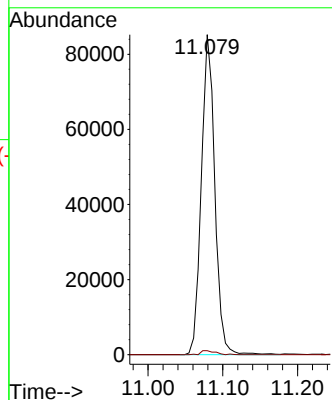
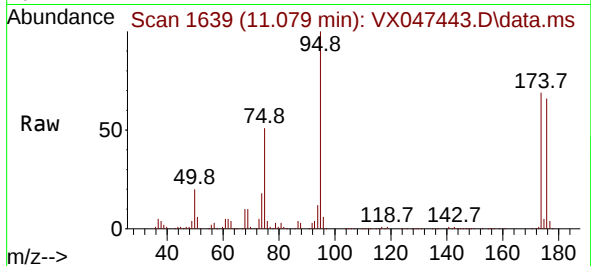




#76  
1,2,3-Trichloropropane  
Concen: 27.150 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
MN-9C-081825

Tgt Ion: 75 Resp: 106686  
Ion Ratio Lower Upper  
75 100  
77 1.4 19.4 58.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 107.318 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX047443.D  
Acq: 20 Aug 2025 15:25

Tgt Ion: 75 Resp: 106686  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.2 127.8#  
89 0.0 36.7 55.1#

