

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081925\  
 Data File : VX047414.D  
 Acq On : 19 Aug 2025 15:53  
 Operator : JC/MD  
 Sample : Q2815-22  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TW-11M-S

Quant Time: Aug 20 01:28:27 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

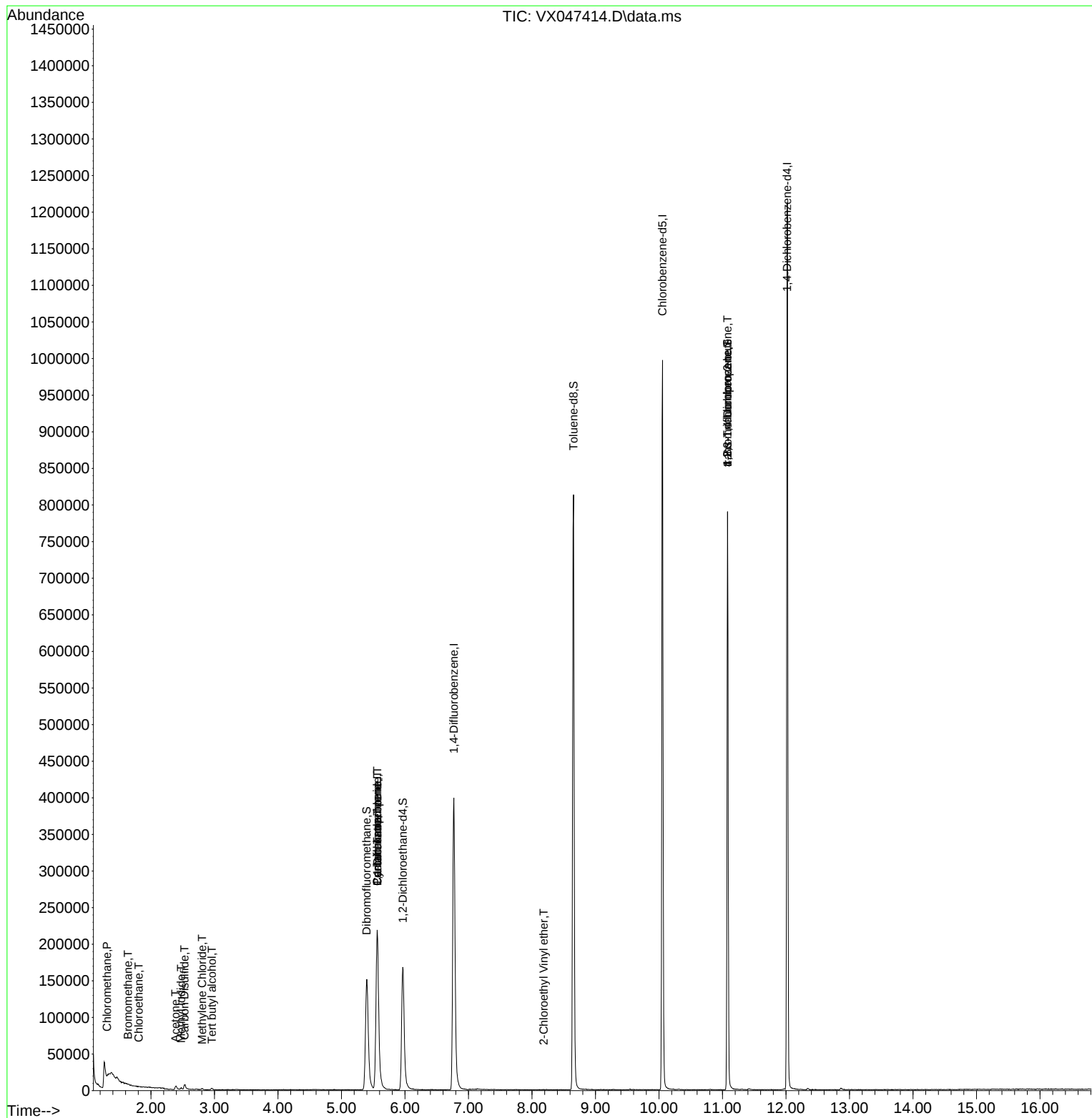
| Compound                      | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------------|----------|
| -----                         |        |       |          |          |             |          |
| Internal Standards            |        |       |          |          |             |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 216672   | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 434559   | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 441424   | 50.000   | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 234204   | 50.000   | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 179898   | 59.325   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 118.660%# |          |
| 35) Dibromofluoromethane      | 5.398  | 113   | 147057   | 52.142   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 104.280%  |          |
| 50) Toluene-d8                | 8.653  | 98    | 496123   | 49.216   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 98.440%   |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 213764   | 57.464   | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 114.920%  |          |
| Target Compounds              |        |       |          |          |             |          |
|                               |        |       |          |          | Qvalue      |          |
| 3) Chloromethane              | 1.307  | 50    | 569      | 0.229    | ug/l #      | 41       |
| 5) Bromomethane               | 1.636  | 94    | 274      | 0.218    | ug/l #      | 54       |
| 6) Chloroethane               | 1.807  | 64    | 770      | 0.404    | ug/l #      | 46       |
| 10) Methyl Iodide             | 2.477  | 142   | 3263     | 0.712    | ug/l #      | 95       |
| 11) Tert butyl alcohol        | 2.959  | 59    | 525      | 1.990    | ug/l #      | 72       |
| 16) Acetone                   | 2.386  | 43    | 7667     | 6.727    | ug/l        | 92       |
| 17) Carbon Disulfide          | 2.526  | 76    | 9060     | 1.101    | ug/l #      | 89       |
| 20) Methylene Chloride        | 2.807  | 84    | 629      | 0.208    | ug/l #      | 76       |
| 31) Cyclohexane               | 5.562  | 56    | 4612     | 0.945    | ug/l #      | 1        |
| 36) 1,1-Dichloropropene       | 5.562  | 75    | 17739    | 3.984    | ug/l #      | 49       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 22697    | 4.665    | ug/l #      | 15       |
| 58) 2-Chloroethyl Vinyl ether | 8.184  | 63    | 24       | 8.366    | ug/l #      | 46       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 110072   | 25.625   | ug/l #      | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 110072   | 101.730  | ug/l #      | 7        |
| -----                         |        |       |          |          |             |          |

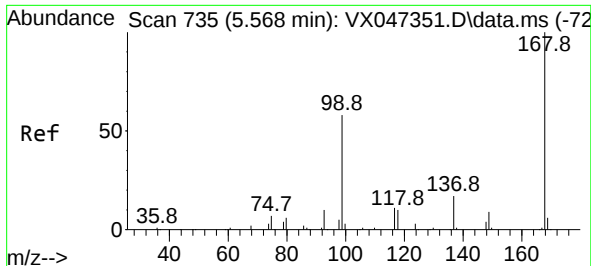
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081925\  
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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

Quant Time: Aug 20 01:28:27 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

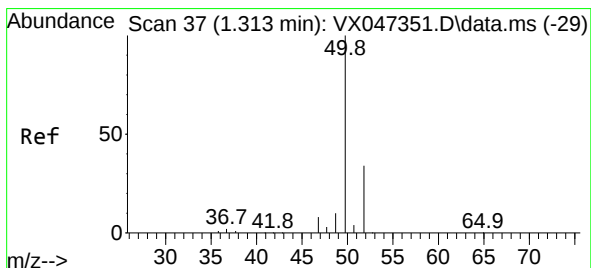
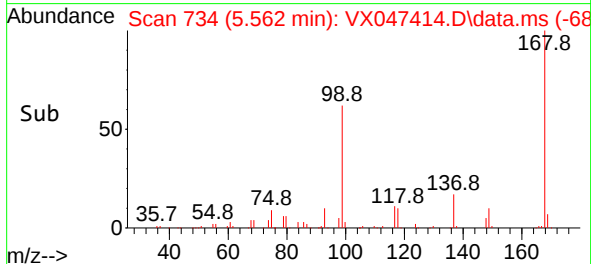
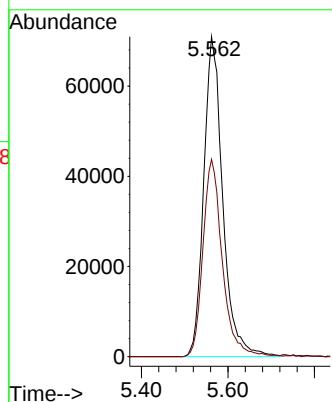
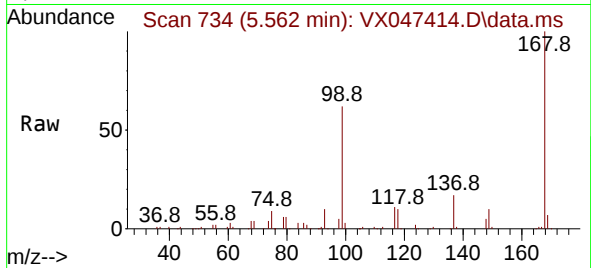




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

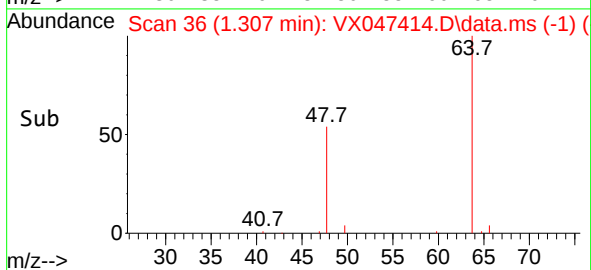
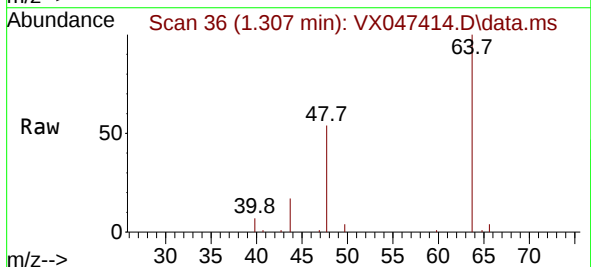
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

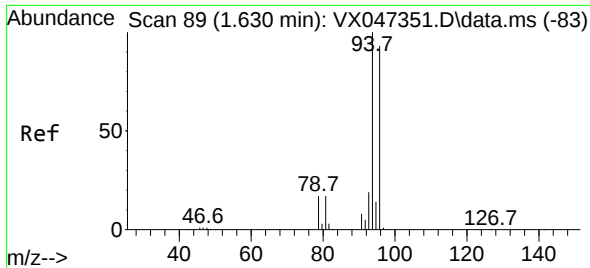
Tgt Ion:168 Resp: 216672  
Ion Ratio Lower Upper  
168 100  
99 61.6 47.9 71.9



#3  
Chloromethane  
Concen: 0.229 ug/l  
RT: 1.307 min Scan# 36  
Delta R.T. -0.006 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion: 50 Resp: 569  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.0 40.4

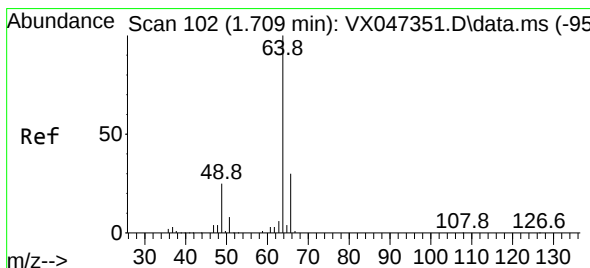
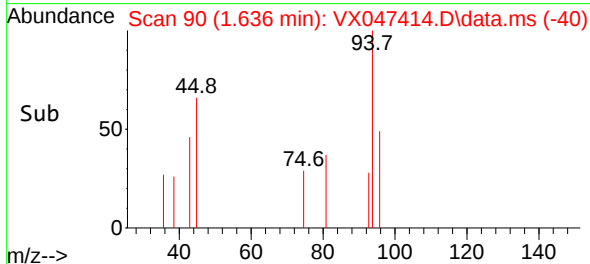
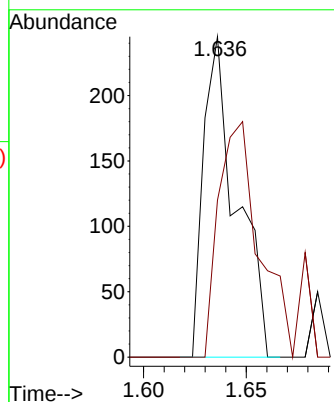
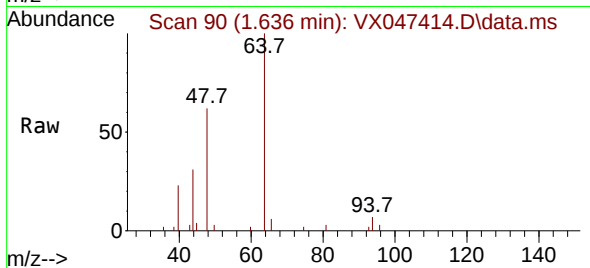




#5  
Bromomethane  
Concen: 0.218 ug/l  
RT: 1.636 min Scan# 90  
Delta R.T. 0.006 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

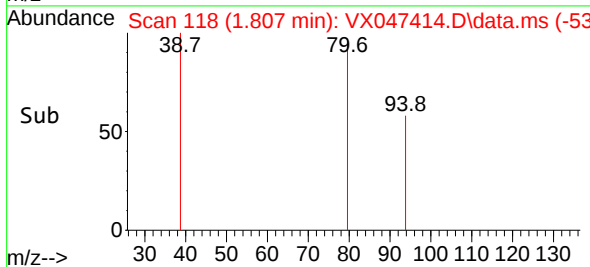
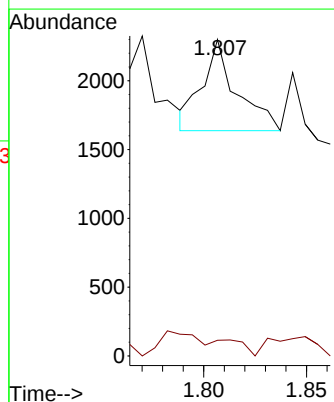
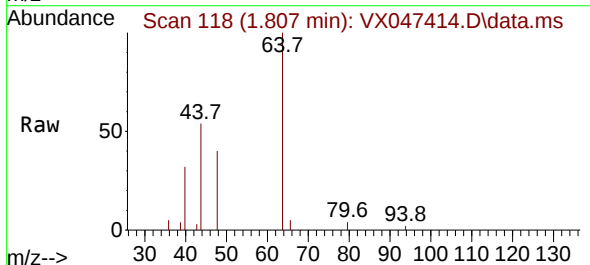
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

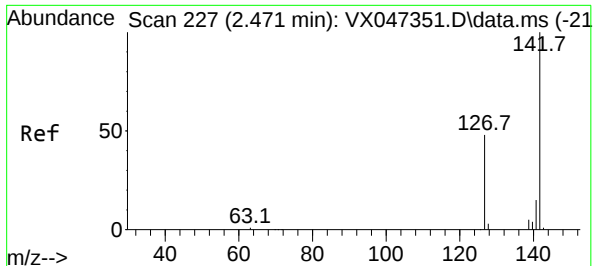
Tgt Ion: 94 Resp: 274  
Ion Ratio Lower Upper  
94 100  
96 49.0 74.7 112.1#



#6  
Chloroethane  
Concen: 0.404 ug/l  
RT: 1.807 min Scan# 118  
Delta R.T. 0.098 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion: 64 Resp: 770  
Ion Ratio Lower Upper  
64 100  
66 1.1 24.4 36.6#

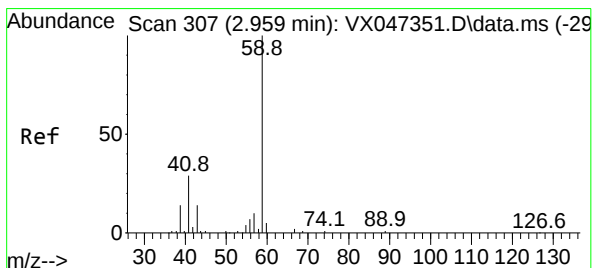
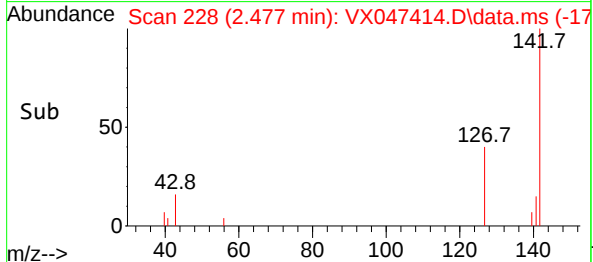
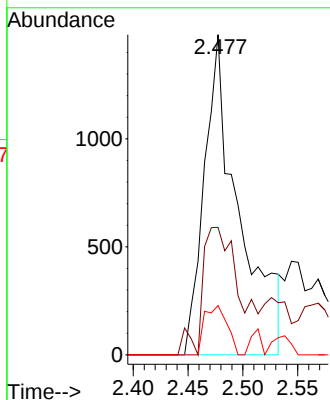
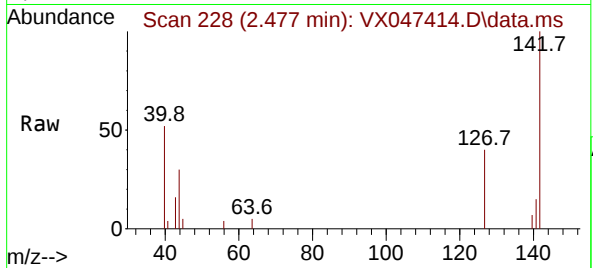




#10  
Methyl Iodide  
Concen: 0.712 ug/l  
RT: 2.477 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

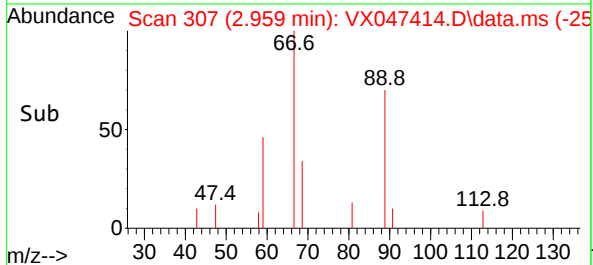
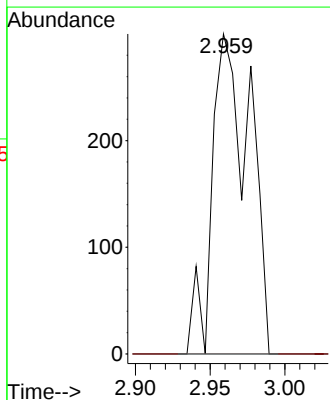
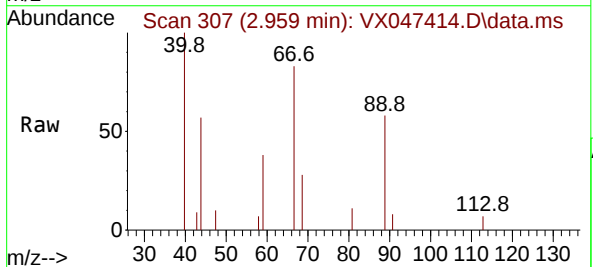
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

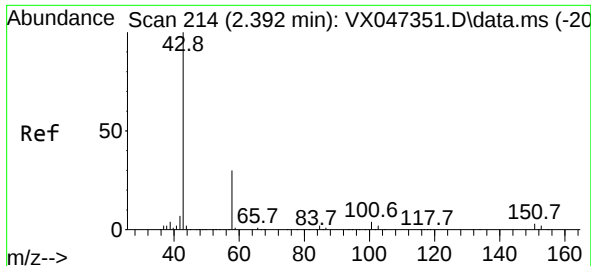
Tgt Ion:142 Resp: 3263  
Ion Ratio Lower Upper  
142 100  
127 42.6 36.1 54.1  
141 10.0 11.1 16.7#



#11  
Tert butyl alcohol  
Concen: 1.990 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. 0.000 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion: 59 Resp: 525  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

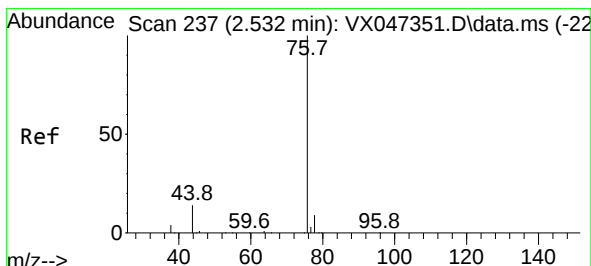
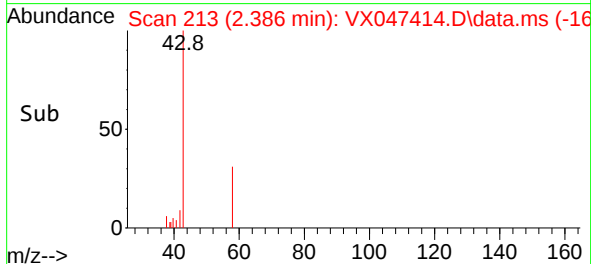
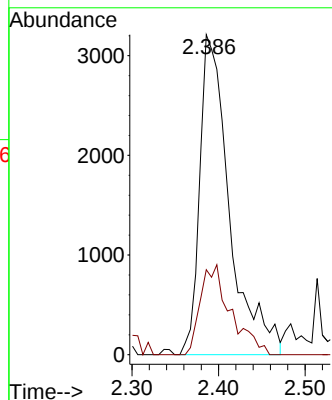
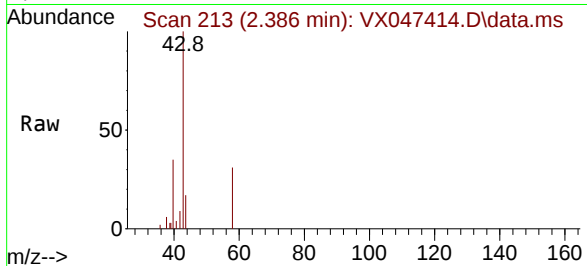




#16  
Acetone  
Concen: 6.727 ug/l  
RT: 2.386 min Scan# 214  
Delta R.T. -0.006 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

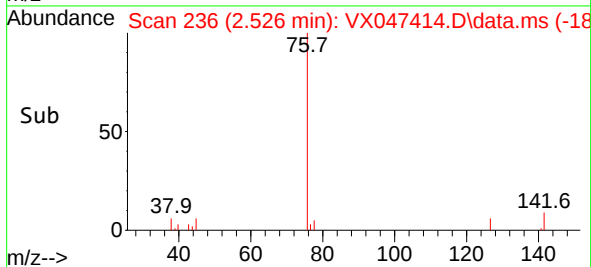
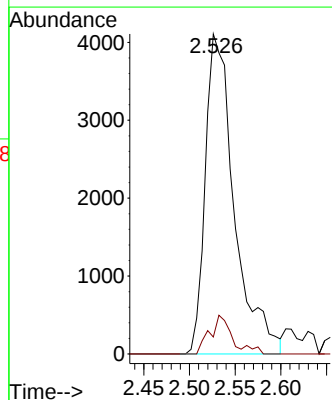
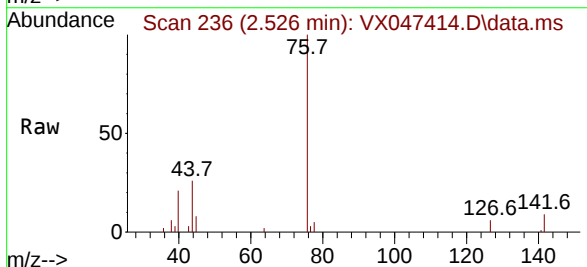
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

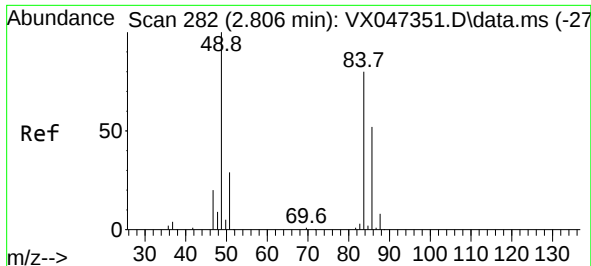
Tgt Ion: 43 Resp: 7667  
Ion Ratio Lower Upper  
43 100  
58 26.6 24.8 37.2



#17  
Carbon Disulfide  
Concen: 1.101 ug/l  
RT: 2.526 min Scan# 236  
Delta R.T. -0.006 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion: 76 Resp: 9060  
Ion Ratio Lower Upper  
76 100  
78 5.1 7.2 10.8#



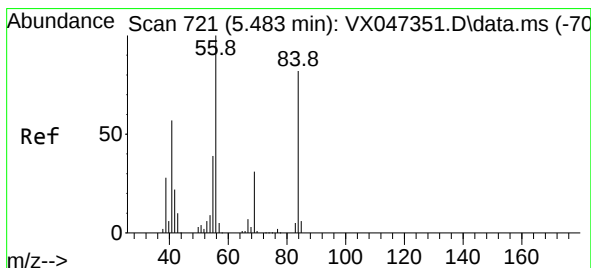
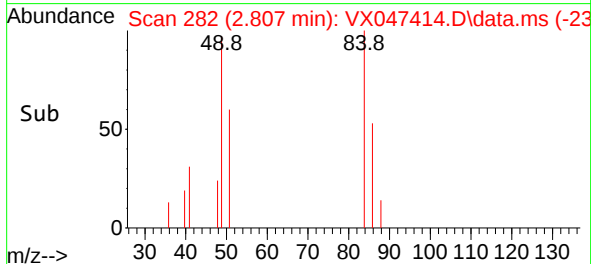
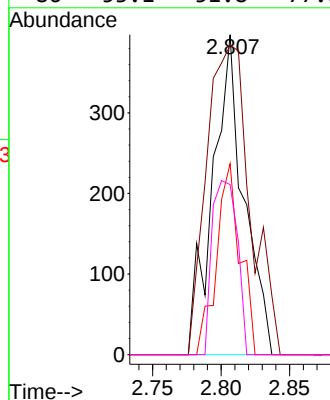
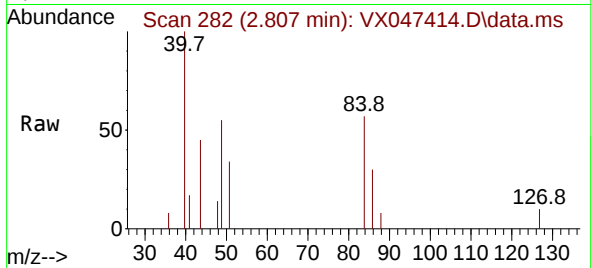


#20  
Methylene Chloride  
Concen: 0.208 ug/l  
RT: 2.807 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

Tgt Ion: 84 Resp: 629

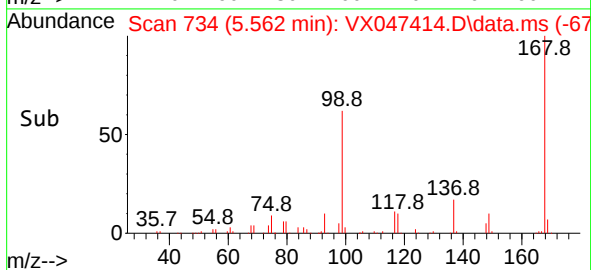
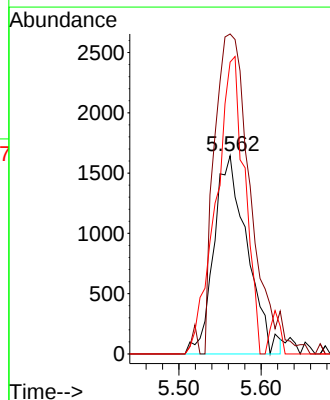
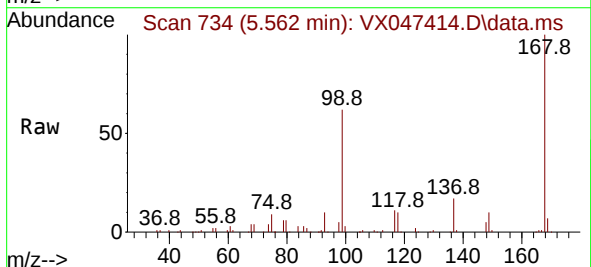
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 96.7  | 100.1 | 150.1# |
| 51  | 59.7  | 29.5  | 44.3#  |
| 86  | 53.1  | 51.8  | 77.8   |

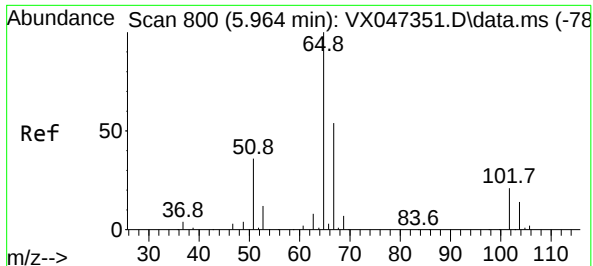


#31  
Cyclohexane  
Concen: 0.945 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.080 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion: 56 Resp: 4612

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 161.4 | 24.3  | 36.5# |
| 84  | 147.2 | 65.3  | 97.9# |





#33

1,2-Dichloroethane-d4

Concen: 59.325 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047414.D

Acq: 19 Aug 2025 15:53

Instrument :

MSVOA\_X

ClientSampleId :

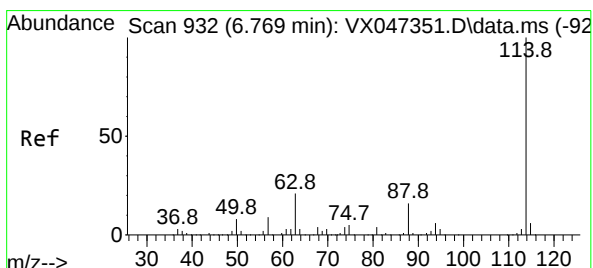
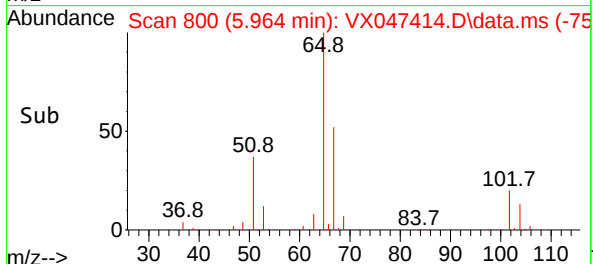
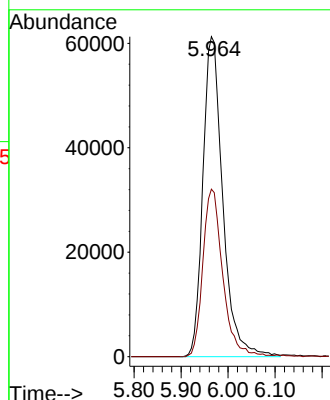
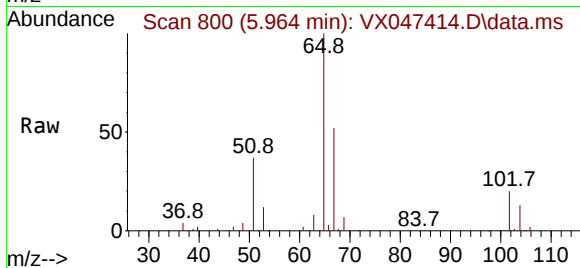
TW-11M-S

Tgt Ion: 65 Resp: 179898

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047414.D

Acq: 19 Aug 2025 15:53

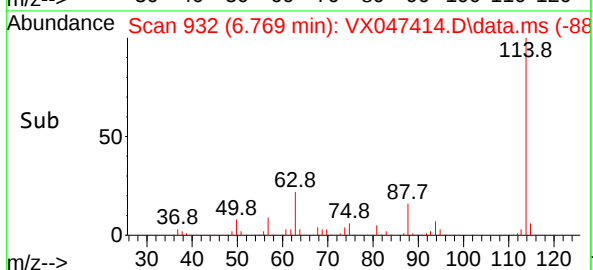
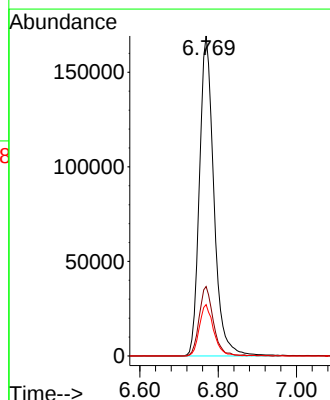
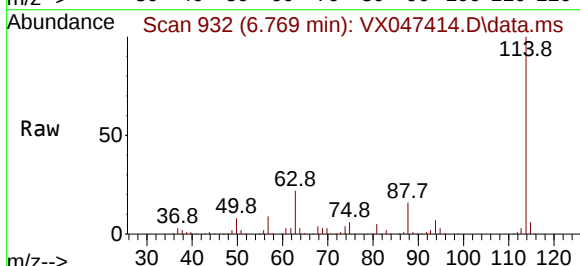
Tgt Ion: 114 Resp: 434559

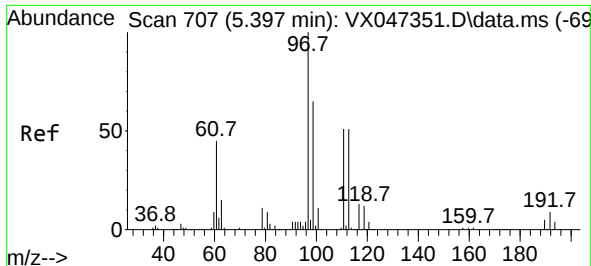
Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.4

88 16.0 0.0 33.0

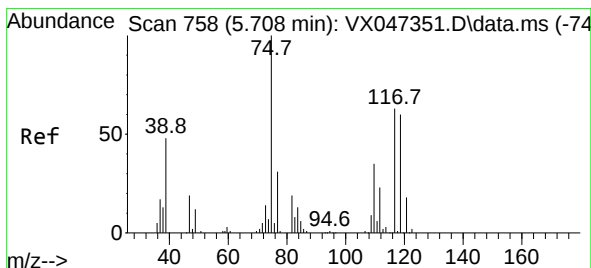
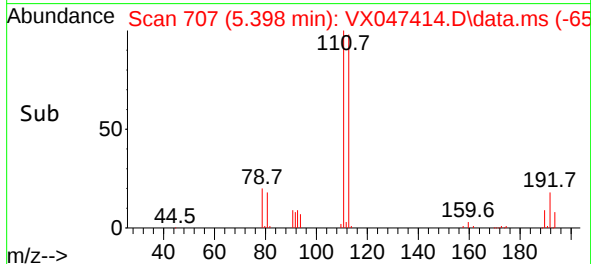
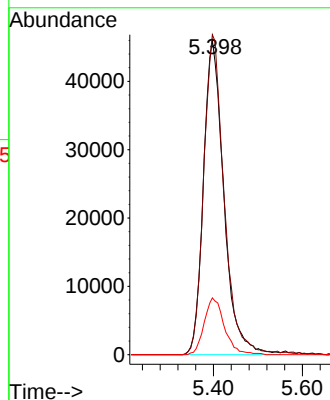
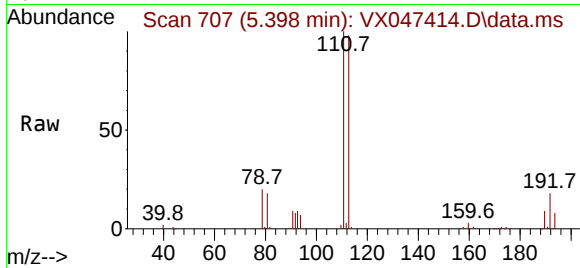




#35  
Dibromofluoromethane  
Concen: 52.142 ug/l  
RT: 5.398 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

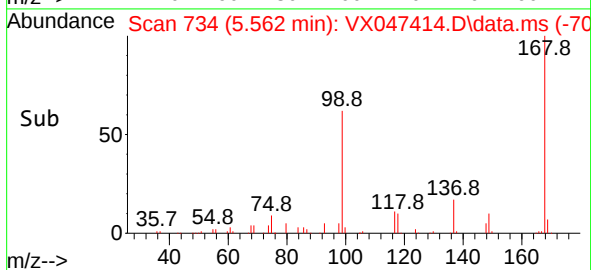
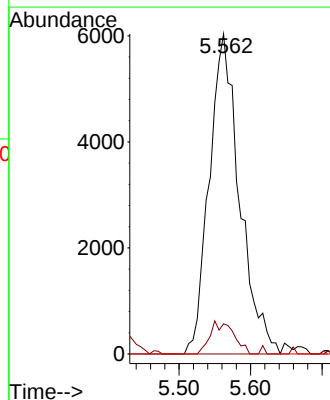
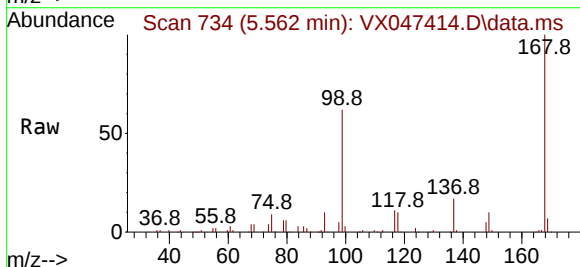
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

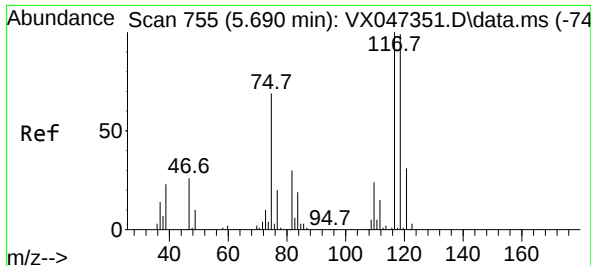
Tgt Ion:113 Resp: 147057  
Ion Ratio Lower Upper  
113 100  
111 101.2 81.4 122.2  
192 18.0 14.1 21.1



#36  
1,1-Dichloropropene  
Concen: 3.984 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.146 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

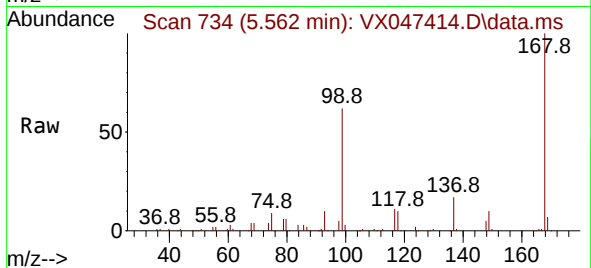
Tgt Ion: 75 Resp: 17739  
Ion Ratio Lower Upper  
75 100  
110 7.9 17.4 52.2#  
77 0.0 24.4 36.6#



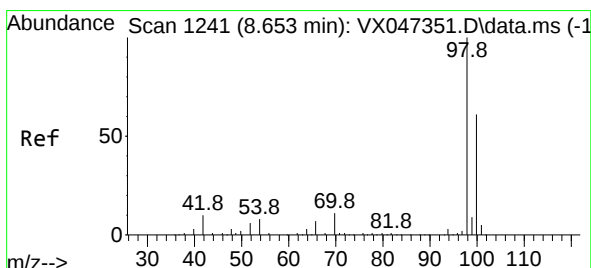
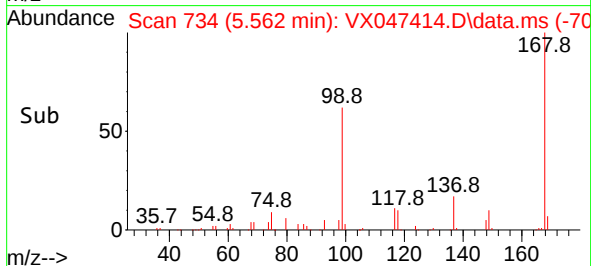
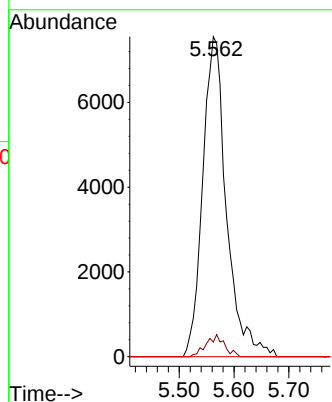


#38  
Carbon Tetrachloride  
Concen: 4.665 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

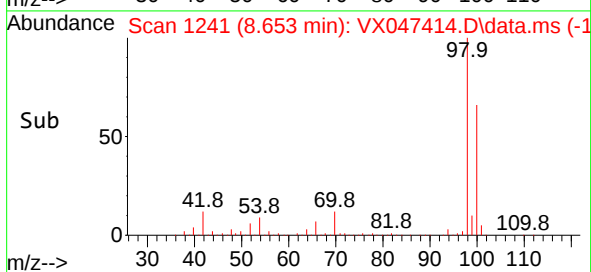
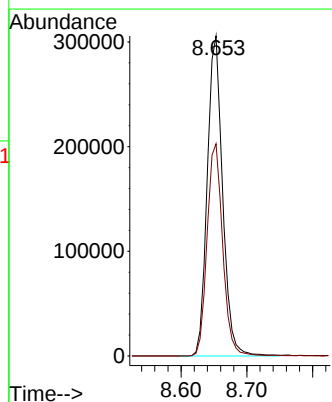
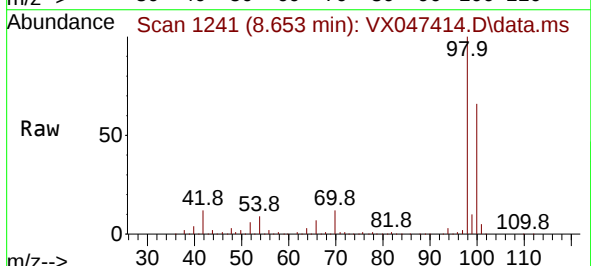


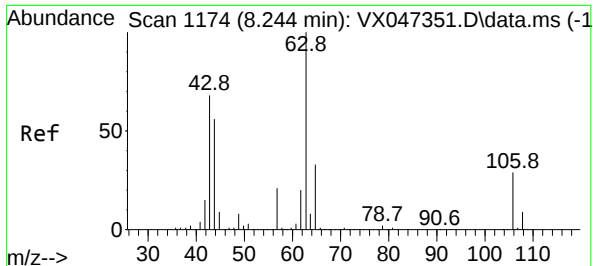
Tgt Ion:117 Resp: 22697  
Ion Ratio Lower Upper  
117 100  
119 4.6 78.5 117.7#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 49.216 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.000 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion: 98 Resp: 496123  
Ion Ratio Lower Upper  
98 100  
100 67.4 53.9 80.9

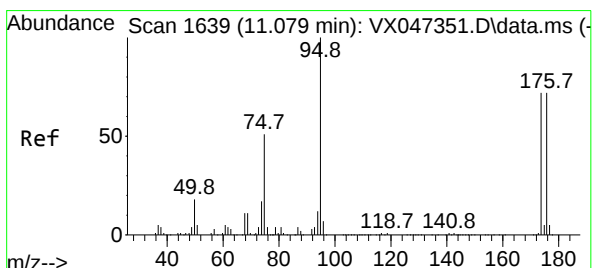
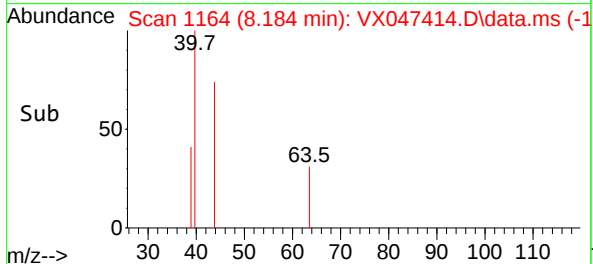
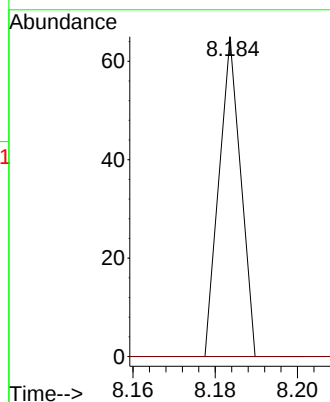
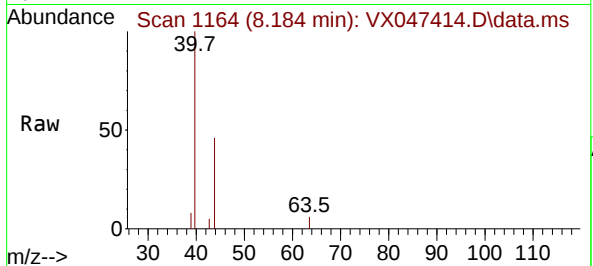




#58  
2-Chloroethyl Vinyl ether  
Concen: 8.366 ug/l  
RT: 8.184 min Scan# 1174  
Delta R.T. -0.061 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

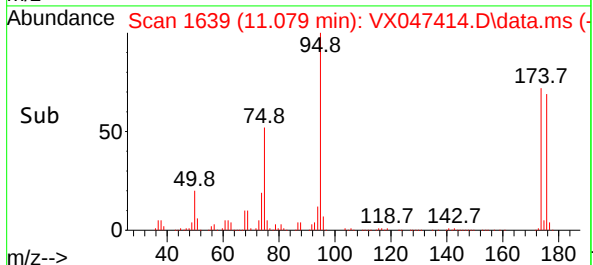
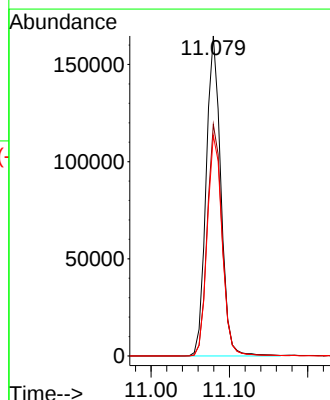
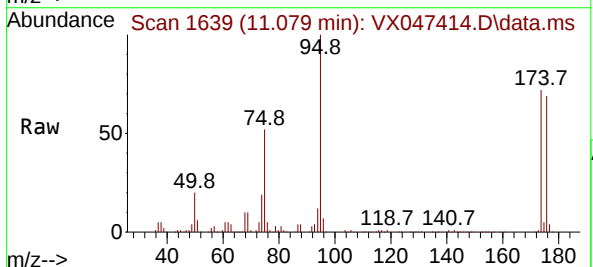
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

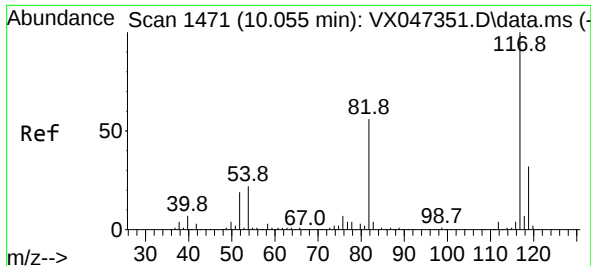
Tgt Ion: 63 Resp: 24  
Ion Ratio Lower Upper  
63 100  
106 0.0 22.8 34.2#



#62  
4-Bromofluorobenzene  
Concen: 57.464 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion: 95 Resp: 213764  
Ion Ratio Lower Upper  
95 100  
174 73.1 0.0 148.0  
176 70.3 0.0 145.4

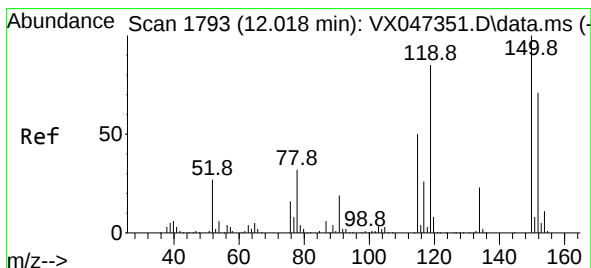
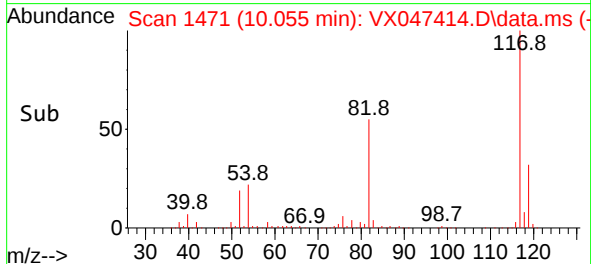
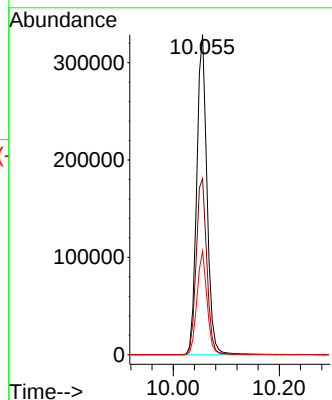
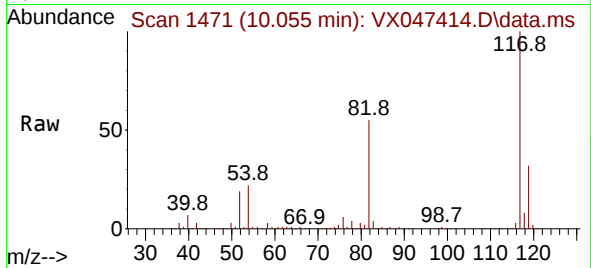




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

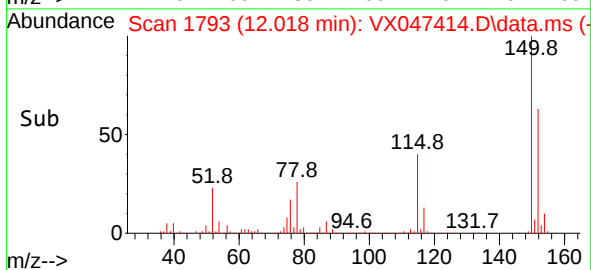
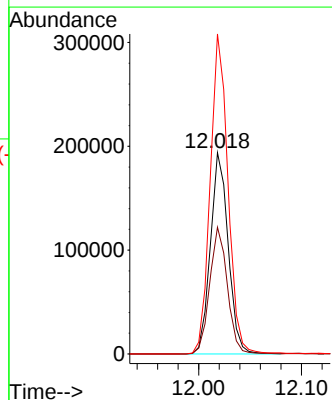
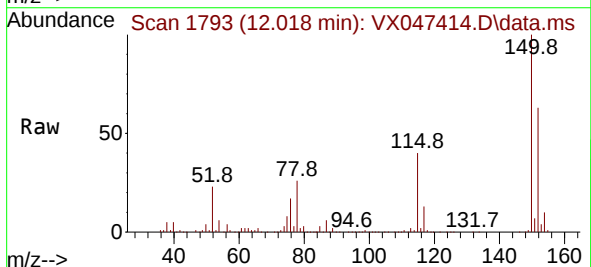
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

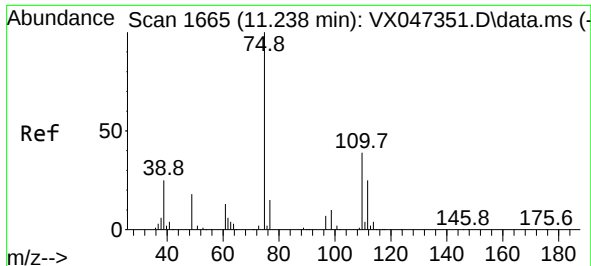
Tgt Ion:117 Resp: 441424  
Ion Ratio Lower Upper  
117 100  
82 55.0 45.0 67.4  
119 32.4 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion:152 Resp: 234204  
Ion Ratio Lower Upper  
152 100  
115 62.5 44.6 133.8  
150 158.8 0.0 349.8

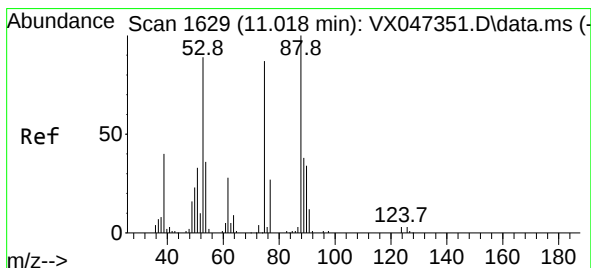
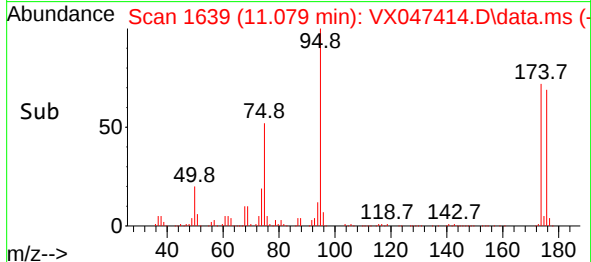
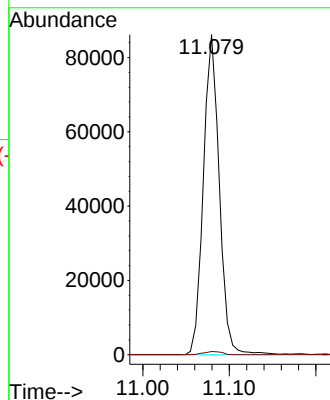
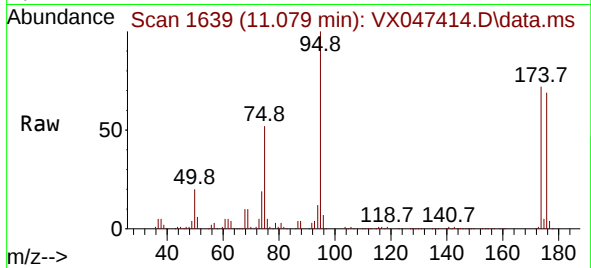




#76  
1,2,3-Trichloropropane  
Concen: 25.625 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. -0.158 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-11M-S

Tgt Ion: 75 Resp: 110072  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.4 58.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 101.730 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX047414.D  
Acq: 19 Aug 2025 15:53

Tgt Ion: 75 Resp: 110072  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.2 127.8#  
89 0.0 36.7 55.1#

