

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121225\  
 Data File : VX048862.D  
 Acq On : 12 Dec 2025 17:52  
 Operator : JC/MD  
 Sample : Q3813-01RE  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BR-04DR-451-120825

Quant Time: Dec 12 22:17:04 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120425W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 05 03:27:34 2025  
 Response via : Initial Calibration

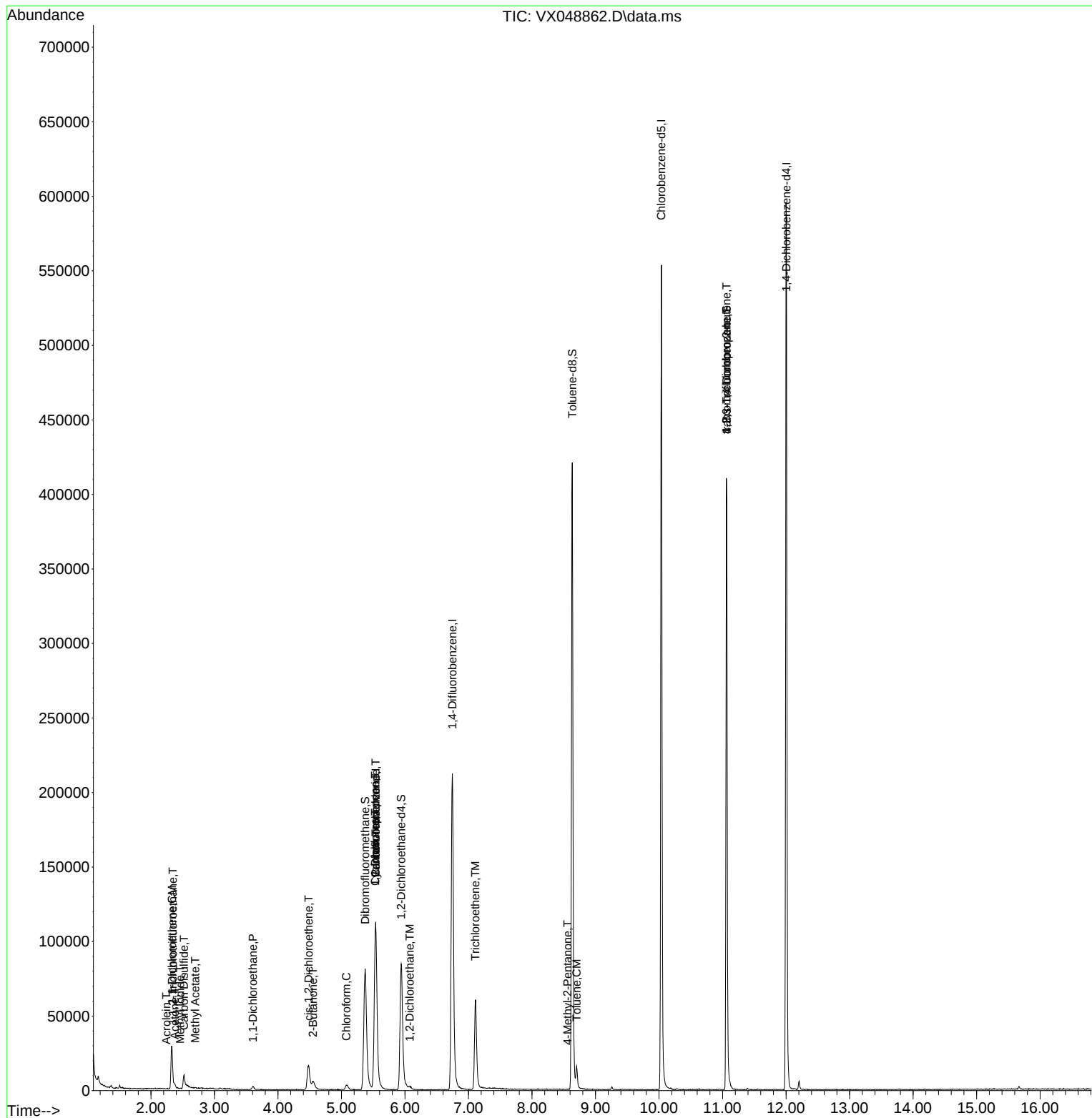
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|-------|-----------|
| Internal Standards            |        |       |          |           |       |           |
| 1) Pentafluorobenzene         | 5.537  | 168   | 113879   | 50.000    | ug/l  | # 0.00    |
| 34) 1,4-Difluorobenzene       | 6.745  | 114   | 237003   | 50.000    | ug/l  | 0.00      |
| 63) Chlorobenzene-d5          | 10.037 | 117   | 261744   | 50.000    | ug/l  | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 12.006 | 152   | 136774   | 50.000    | ug/l  | 0.00      |
| System Monitoring Compounds   |        |       |          |           |       |           |
| 33) 1,2-Dichloroethane-d4     | 5.940  | 65    | 93647    | 61.269    | ug/l  | 0.00      |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =     | 122.540%# |
| 35) Dibromofluoromethane      | 5.373  | 113   | 80851    | 49.545    | ug/l  | 0.00      |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =     | 99.100%   |
| 50) Toluene-d8                | 8.634  | 98    | 269212   | 47.064    | ug/l  | 0.00      |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =     | 94.120%   |
| 62) 4-Bromofluorobenzene      | 11.061 | 95    | 117573   | 59.606    | ug/l  | 0.00      |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =     | 119.220%  |
| Target Compounds              |        |       |          |           |       |           |
|                               |        |       |          |           |       | Qvalue    |
| 9) 1,1,2-Trichlorotrifluo...  | 2.343  | 101   | 1400     | 1.081     | ug/l  | 97        |
| 10) Methyl Iodide             | 2.459  | 142   | 379      | 0.205     | ug/l  | # 58      |
| 12) 1,1-Dichloroethene        | 2.331  | 96    | 10542    | 7.972     | ug/l  | 86        |
| 13) Acrolein                  | 2.239  | 56    | 18       | 40.241    | ug/l  | # 15      |
| 16) Acetone                   | 2.373  | 43    | 2724     | 4.655     | ug/l  | 92        |
| 17) Carbon Disulfide          | 2.520  | 76    | 8089     | 2.106     | ug/l  | 100       |
| 18) Methyl Acetate            | 2.697  | 43    | 783      | 0.476     | ug/l  | # 57      |
| 24) 1,1-Dichloroethane        | 3.605  | 63    | 3024     | 1.307     | ug/l  | # 86      |
| 25) 2-Butanone                | 4.550  | 43    | 341      | 0.395     | ug/l  | # 46      |
| 27) cis-1,2-Dichloroethene    | 4.483  | 96    | 12030    | 7.899     | ug/l  | 95        |
| 30) Chloroform                | 5.074  | 83    | 4558     | 1.838     | ug/l  | 86        |
| 31) Cyclohexane               | 5.531  | 56    | 2281     | 1.104     | ug/l  | # 28      |
| 36) 1,1-Dichloropropene       | 5.531  | 75    | 9201     | 4.117     | ug/l  | # 47      |
| 38) Carbon Tetrachloride      | 5.537  | 117   | 11841    | 4.677     | ug/l  | # 15      |
| 42) 1,2-Dichloroethane        | 6.074  | 62    | 2118     | 0.903     | ug/l  | 80        |
| 44) Trichloroethene           | 7.104  | 130   | 25638    | 14.830    | ug/l  | 99        |
| 51) 4-Methyl-2-Pentanone      | 8.561  | 43    | 692      | 0.276     | ug/l  | # 35      |
| 52) Toluene                   | 8.702  | 92    | 5219     | 1.306     | ug/l  | 97        |
| 76) 1,2,3-Trichloropropane    | 11.061 | 75    | 60162    | 23.616    | ug/l  | # 30      |
| 81) trans-1,4-Dichloro-2-b... | 11.061 | 75    | 60162    | 56.099    | ug/l  | # 3       |
| 95) Naphthalene               | 13.774 | 128   | 259      | Below Cal | #     | 69        |

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

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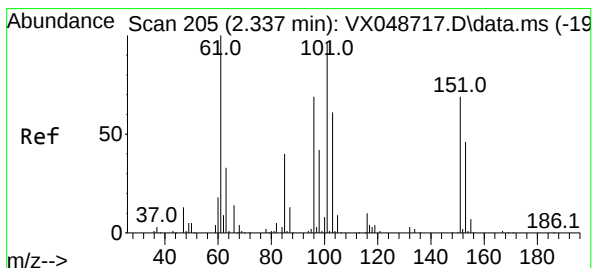
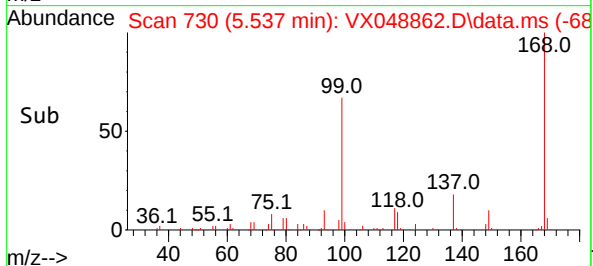
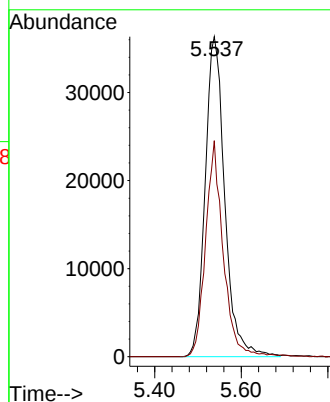
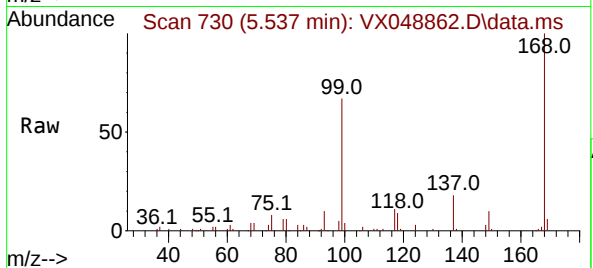




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.537 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

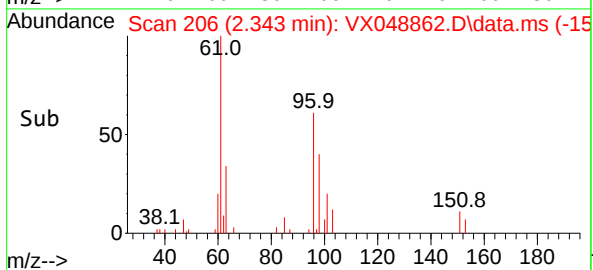
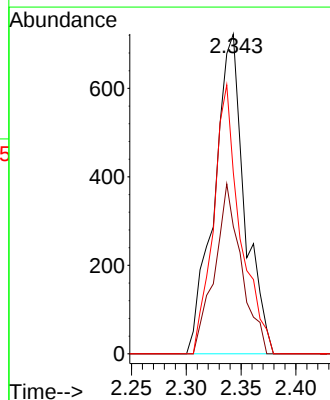
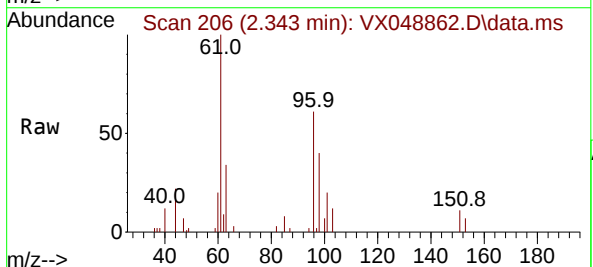
Instrument :  
MSVOA\_X  
ClientSampleId :  
BR-04DR-451-120825

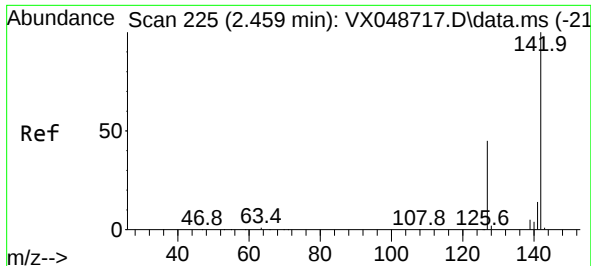
Tgt Ion:168 Resp: 113879  
Ion Ratio Lower Upper  
168 100  
99 67.5 44.2 66.4#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.081 ug/l  
RT: 2.343 min Scan# 206  
Delta R.T. 0.006 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion:101 Resp: 1400  
Ion Ratio Lower Upper  
101 100  
85 46.9 34.2 51.2  
151 74.1 60.2 90.4

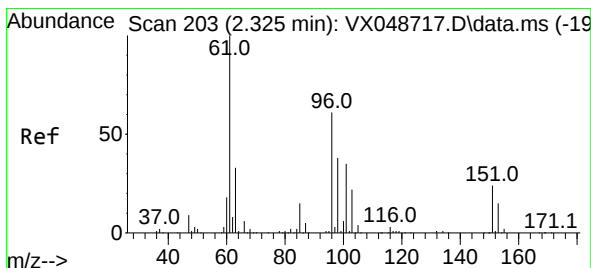
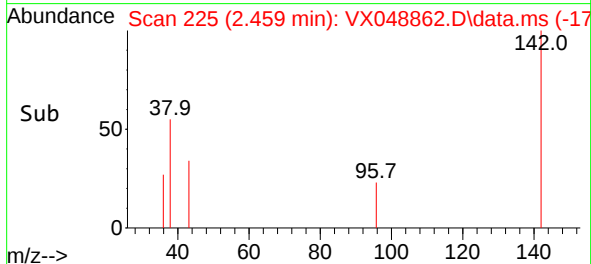
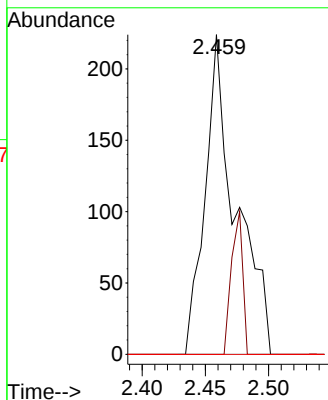
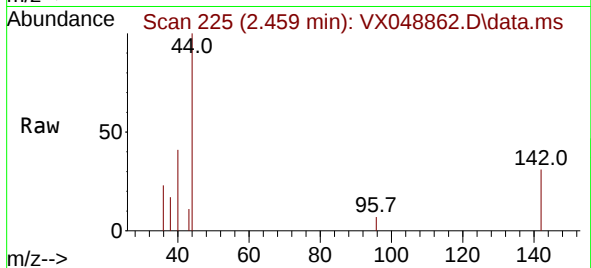




#10  
Methyl Iodide  
Concen: 0.205 ug/l  
RT: 2.459 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

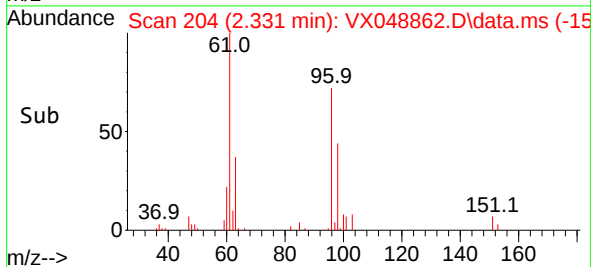
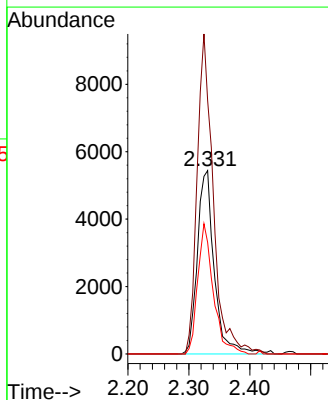
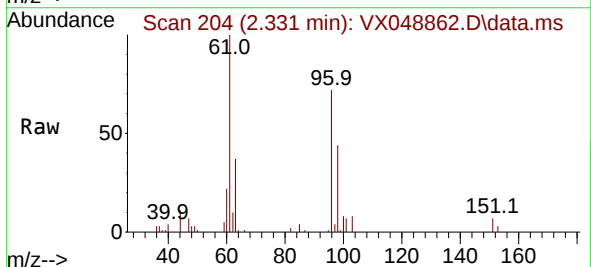
Instrument :  
MSVOA\_X  
ClientSampleId :  
BR-04DR-451-120825

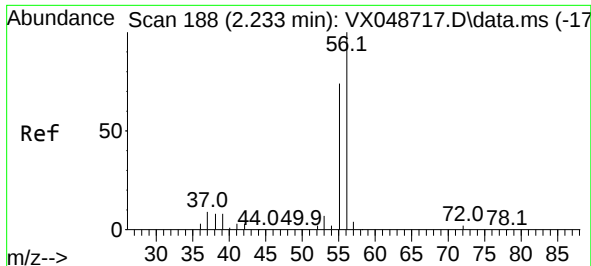
Tgt Ion:142 Resp: 379  
Ion Ratio Lower Upper  
142 100  
127 16.1 35.8 53.6#  
141 0.0 11.1 16.7#



#12  
1,1-Dichloroethene  
Concen: 7.972 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.006 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion: 96 Resp: 10542  
Ion Ratio Lower Upper  
96 100  
61 138.1 130.7 196.1  
98 60.8 49.8 74.8

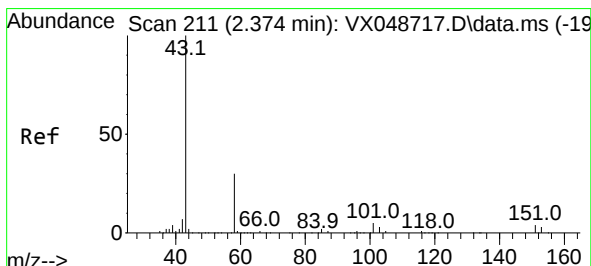
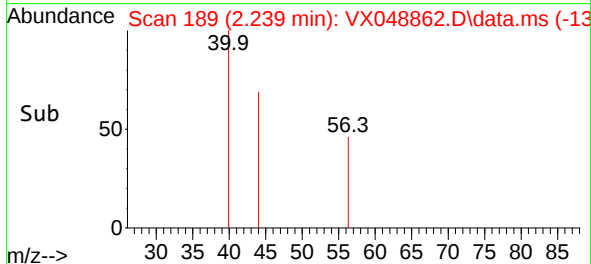
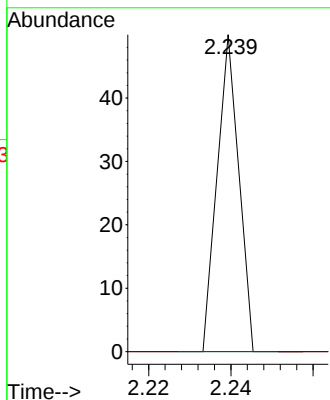
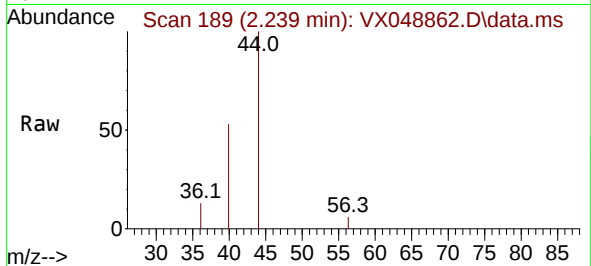




#13  
Acrolein  
Concen: 40.241 ug/l  
RT: 2.239 min Scan# 188  
Delta R.T. 0.006 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

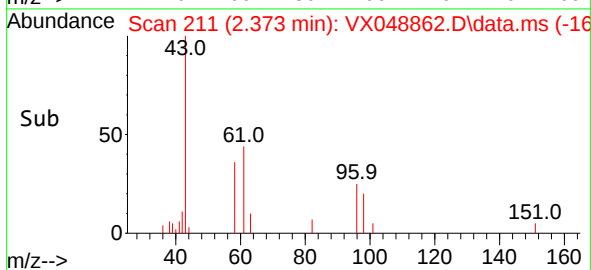
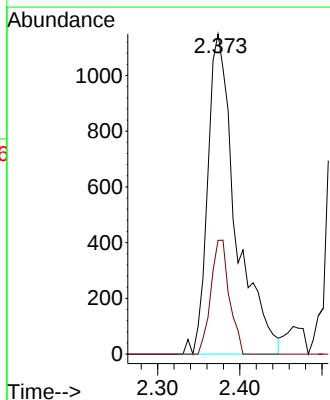
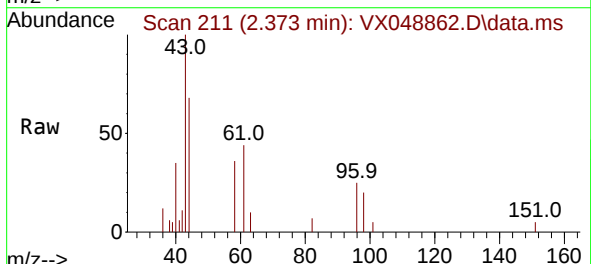
Instrument :  
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ClientSampleId :  
BR-04DR-451-120825

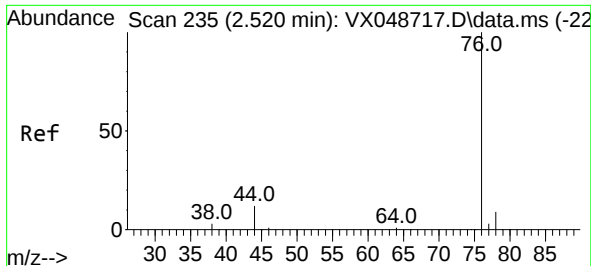
Tgt Ion: 56 Resp: 18  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.8 83.6#



#16  
Acetone  
Concen: 4.655 ug/l  
RT: 2.373 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion: 43 Resp: 2724  
Ion Ratio Lower Upper  
43 100  
58 35.5 25.0 37.4

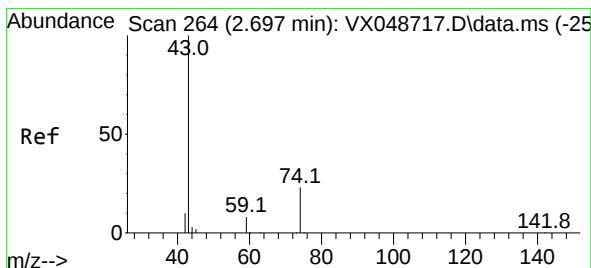
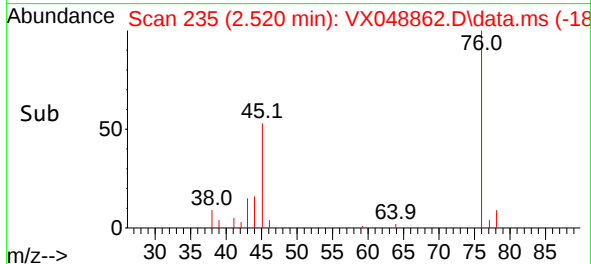
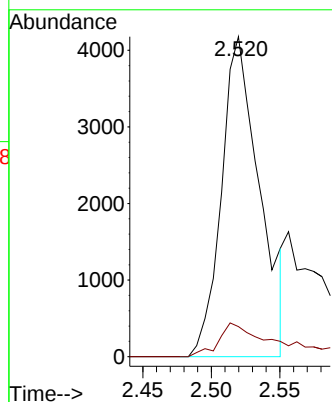
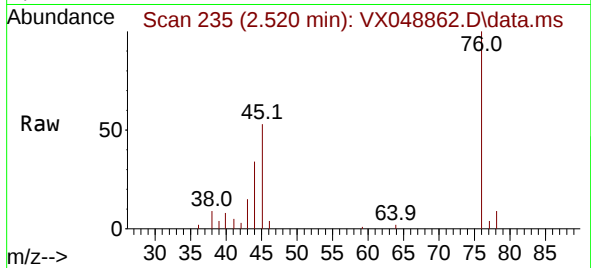




#17  
Carbon Disulfide  
Concen: 2.106 ug/l  
RT: 2.520 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

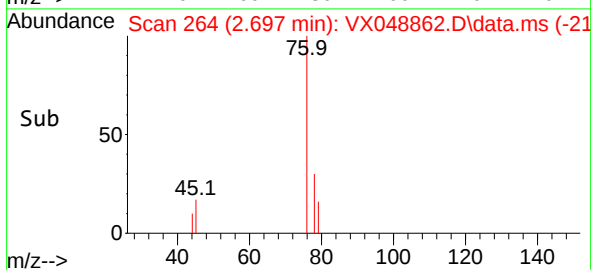
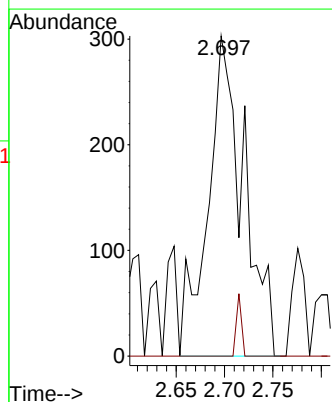
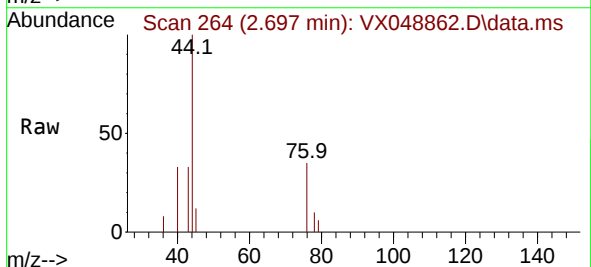
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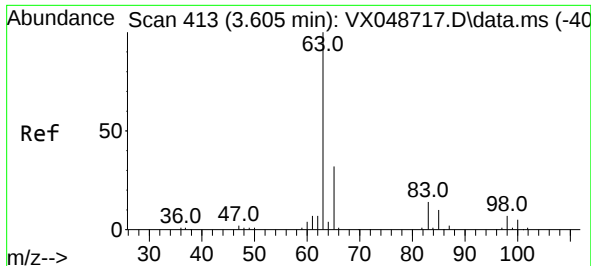
Tgt Ion: 76 Resp: 8089  
Ion Ratio Lower Upper  
76 100  
78 9.4 7.4 11.2



#18  
Methyl Acetate  
Concen: 0.476 ug/l  
RT: 2.697 min Scan# 264  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion: 43 Resp: 783  
Ion Ratio Lower Upper  
43 100  
74 2.8 19.2 28.8#

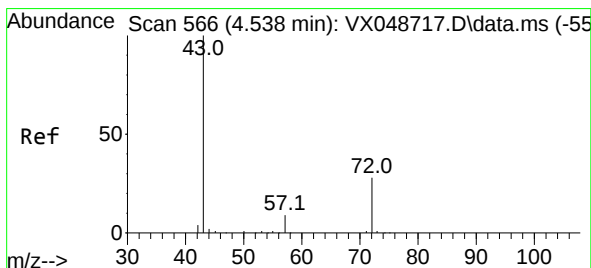
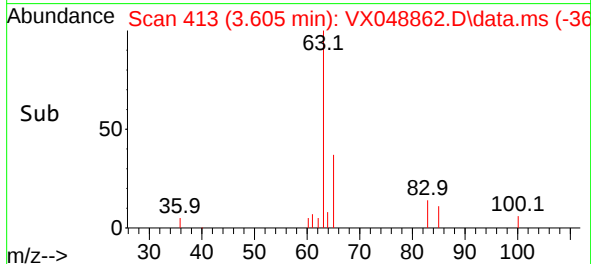
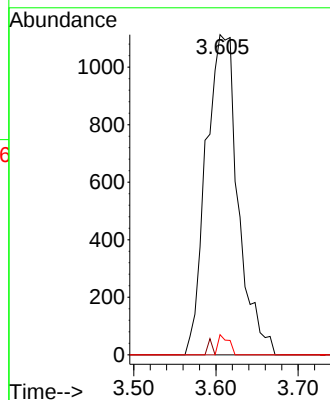
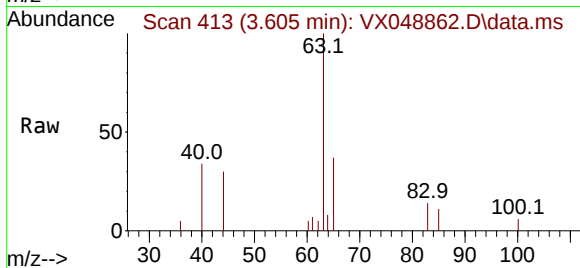




#24  
 1,1-Dichloroethane  
 Concen: 1.307 ug/l  
 RT: 3.605 min Scan# 413  
 Delta R.T. -0.000 min  
 Lab File: VX048862.D  
 Acq: 12 Dec 2025 17:52

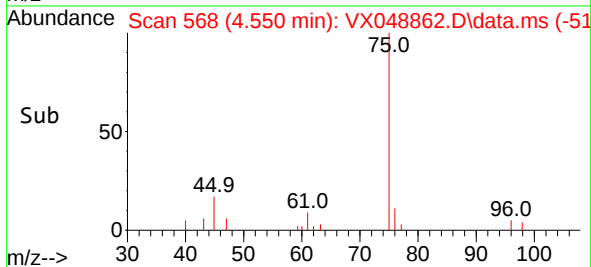
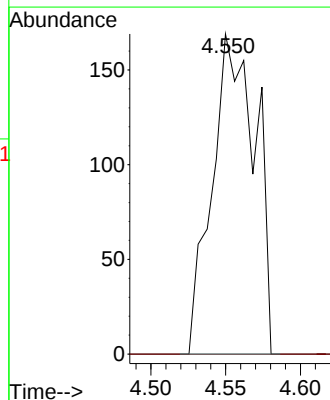
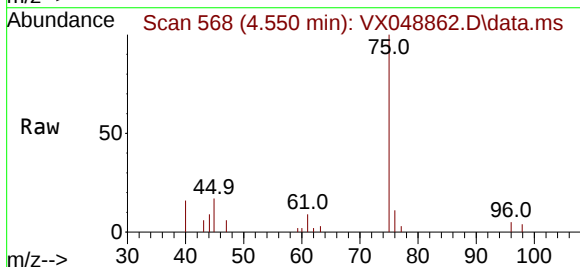
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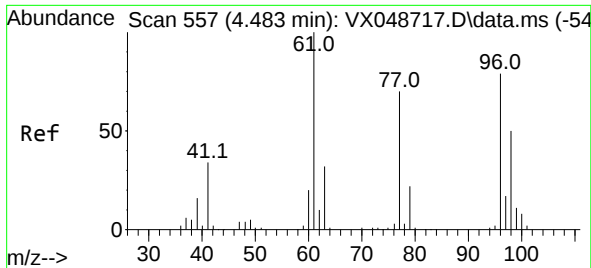
Tgt Ion: 63 Resp: 3024  
 Ion Ratio Lower Upper  
 63 100  
 98 0.0 3.5 10.6#  
 100 6.3 2.5 7.4



#25  
 2-Butanone  
 Concen: 0.395 ug/l  
 RT: 4.550 min Scan# 568  
 Delta R.T. 0.012 min  
 Lab File: VX048862.D  
 Acq: 12 Dec 2025 17:52

Tgt Ion: 43 Resp: 341  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 22.6 34.0#

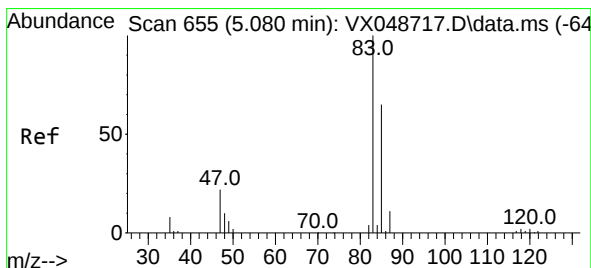
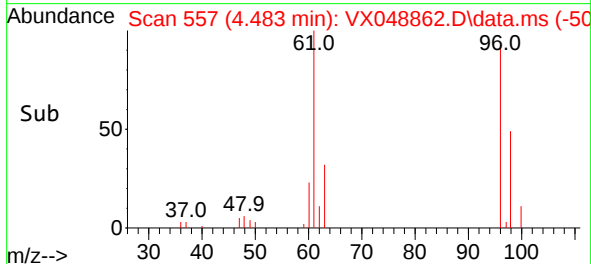
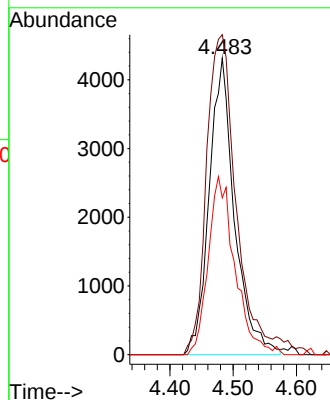
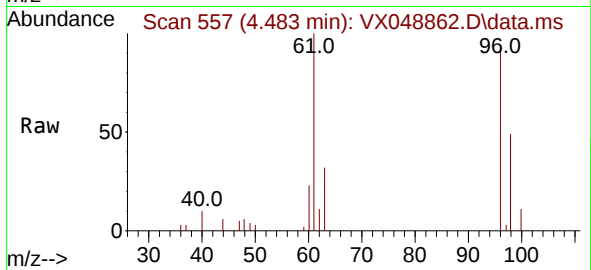




#27  
 cis-1,2-Dichloroethene  
 Concen: 7.899 ug/l  
 RT: 4.483 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VX048862.D  
 Acq: 12 Dec 2025 17:52

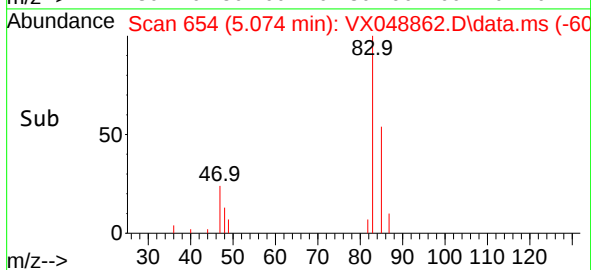
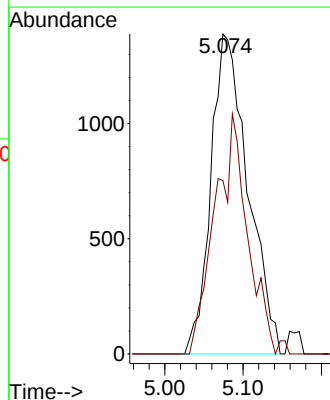
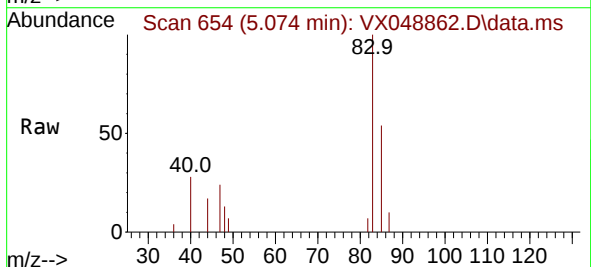
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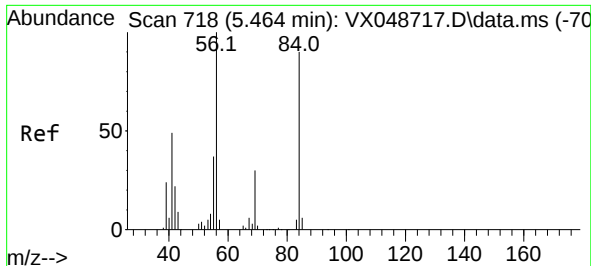
|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 12030 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 128.3    | 0.0 271.0   |
| 98 63.4     | 0.0 130.2   |



#30  
 Chloroform  
 Concen: 1.838 ug/l  
 RT: 5.074 min Scan# 654  
 Delta R.T. -0.006 min  
 Lab File: VX048862.D  
 Acq: 12 Dec 2025 17:52

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 4558  |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 85 54.2     | 52.1 78.1   |

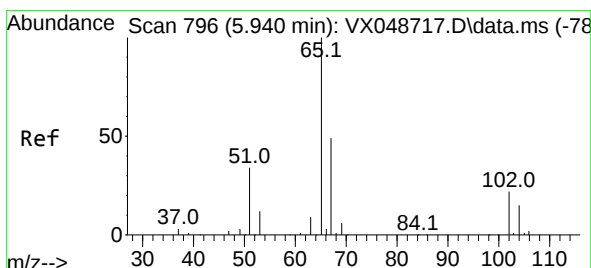
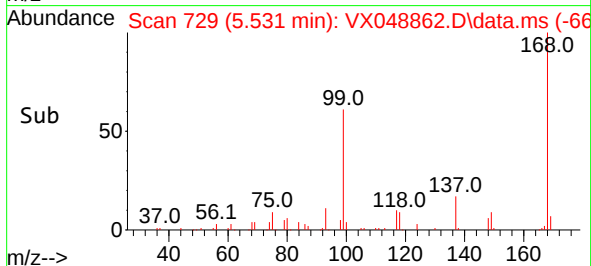
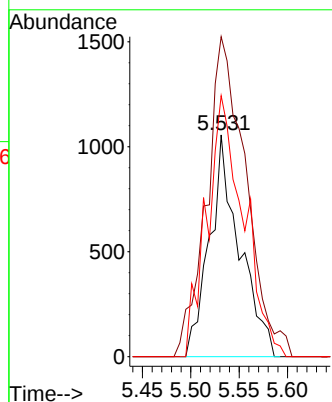
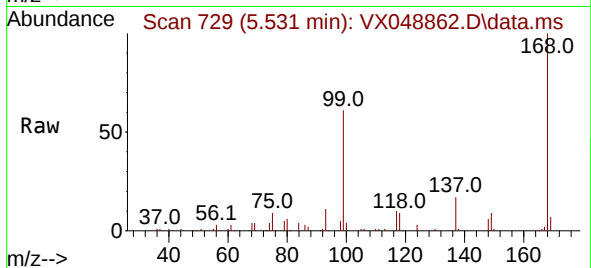




#31  
Cyclohexane  
Concen: 1.104 ug/l  
RT: 5.531 min Scan# 718  
Delta R.T. 0.067 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

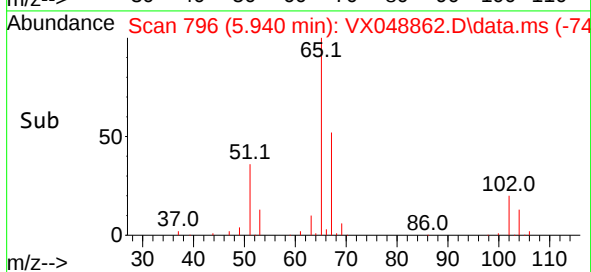
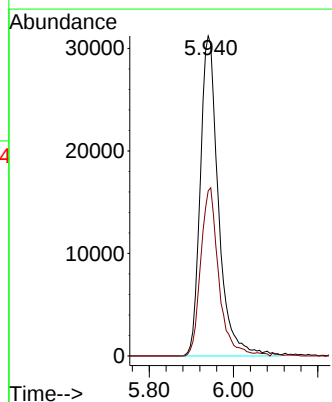
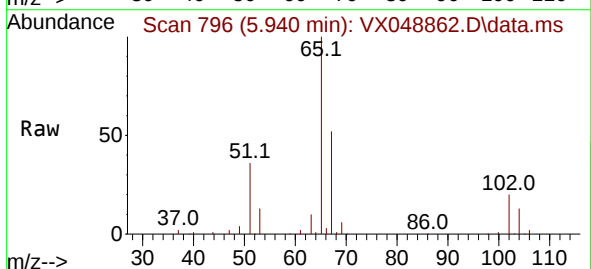
Instrument :  
MSVOA\_X  
ClientSampleId :  
BR-04DR-451-120825

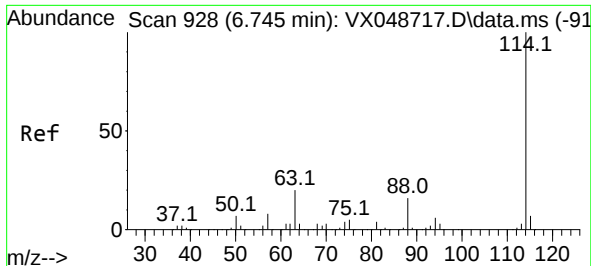
Tgt Ion: 56 Resp: 2281  
Ion Ratio Lower Upper  
56 100  
69 138.1 24.2 36.2#  
84 117.7 72.1 108.1#



#33  
1,2-Dichloroethane-d4  
Concen: 61.269 ug/l  
RT: 5.940 min Scan# 796  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion: 65 Resp: 93647  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 107.4

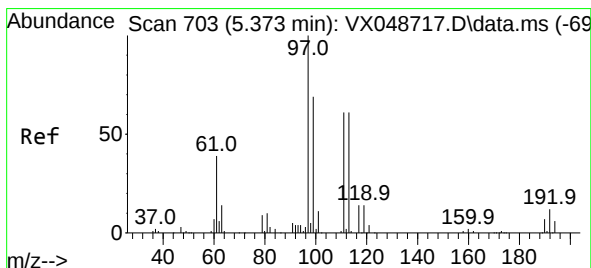
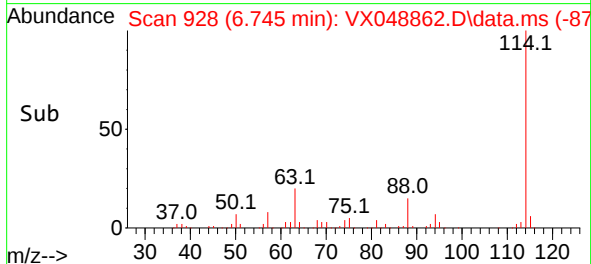
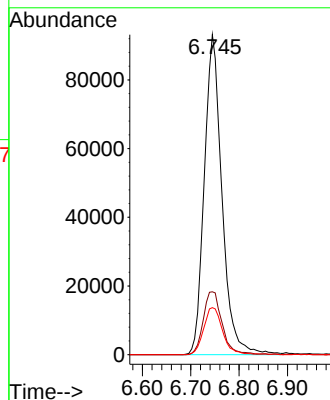
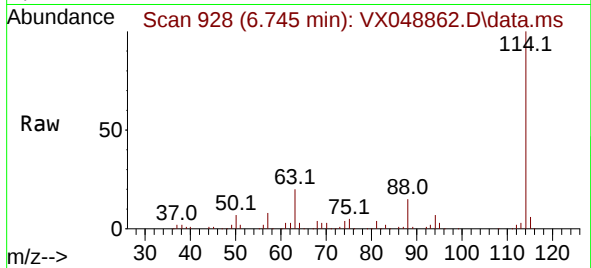




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.745 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

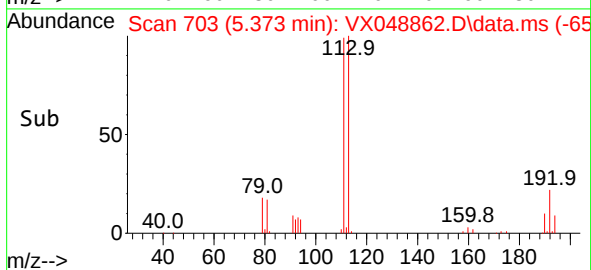
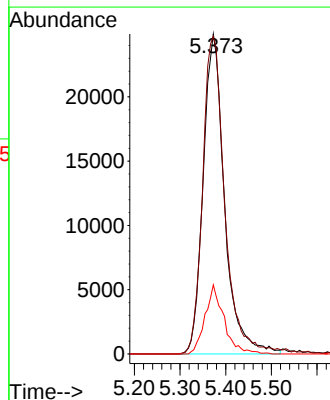
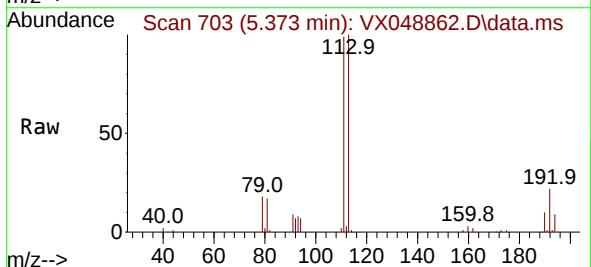
Instrument :  
MSVOA\_X  
ClientSampleId :  
BR-04DR-451-120825

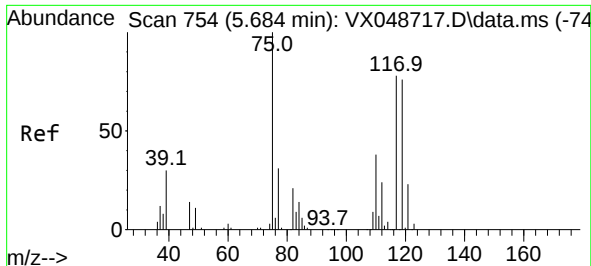
Tgt Ion:114 Resp: 237003  
Ion Ratio Lower Upper  
114 100  
63 19.7 0.0 39.0  
88 14.7 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 49.545 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion:113 Resp: 80851  
Ion Ratio Lower Upper  
113 100  
111 103.2 79.5 119.3  
192 19.2 16.1 24.1

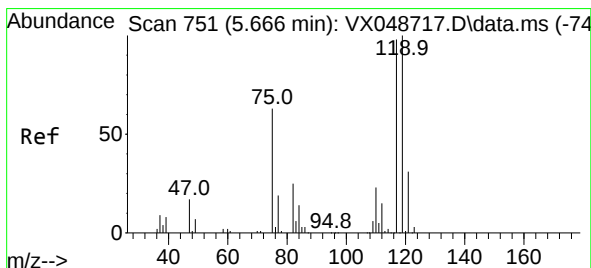
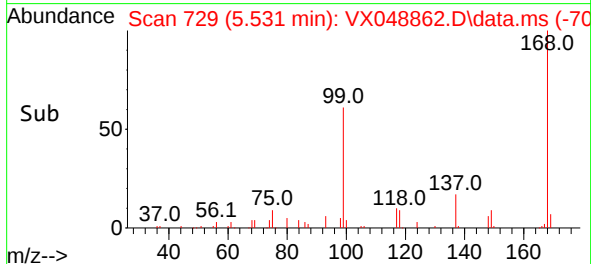
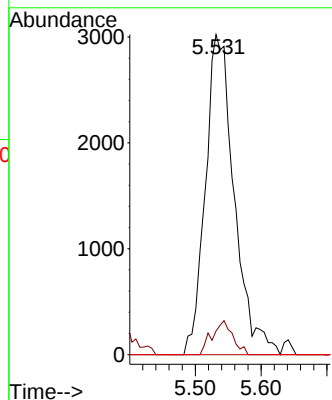
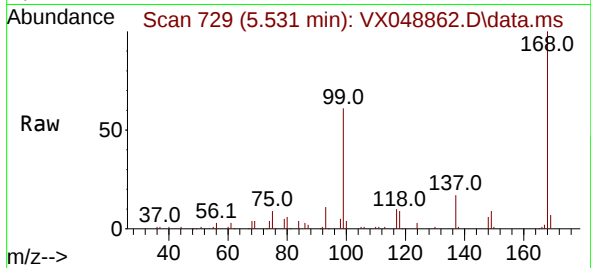




#36  
1,1-Dichloropropene  
Concen: 4.117 ug/l  
RT: 5.531 min Scan# 710  
Delta R.T. -0.153 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

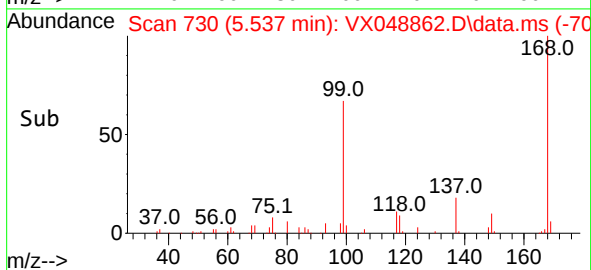
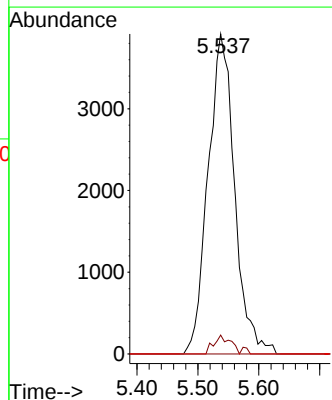
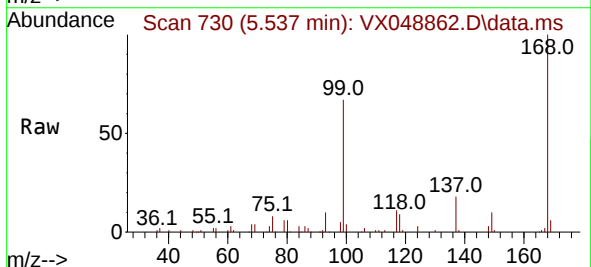
Instrument :  
MSVOA\_X  
ClientSampleId :  
BR-04DR-451-120825

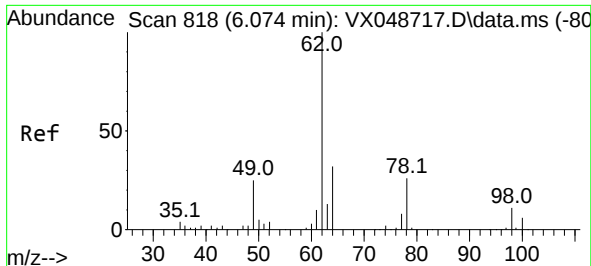
Tgt Ion: 75 Resp: 9201  
Ion Ratio Lower Upper  
75 100  
110 7.6 18.6 55.8#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 4.677 ug/l  
RT: 5.537 min Scan# 730  
Delta R.T. -0.128 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion: 117 Resp: 11841  
Ion Ratio Lower Upper  
117 100  
119 5.9 80.5 120.7#  
121 0.0 25.4 38.0#





#42

1,2-Dichloroethane

Concen: 0.903 ug/l

RT: 6.074 min Scan# 818

Delta R.T. -0.000 min

Lab File: VX048862.D

Acq: 12 Dec 2025 17:52

Instrument :

MSVOA\_X

ClientSampleId :

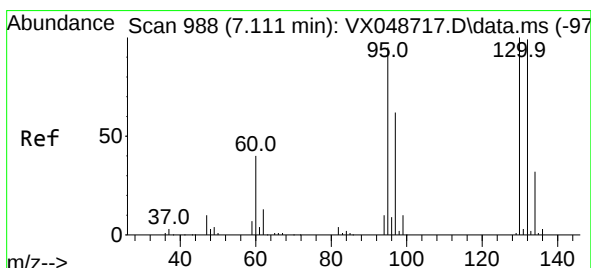
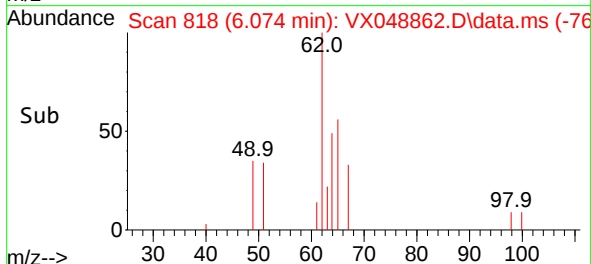
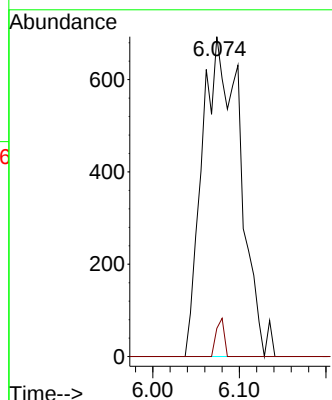
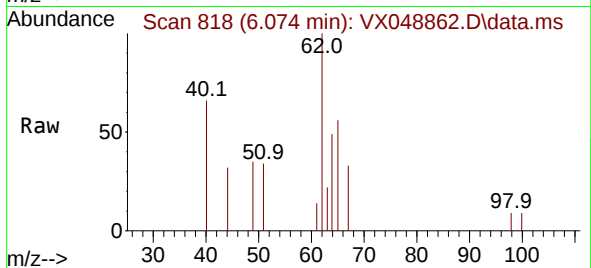
BR-04DR-451-120825

Tgt Ion: 62 Resp: 2118

Ion Ratio Lower Upper

62 100

98 2.5 0.0 20.2



#44

Trichloroethene

Concen: 14.830 ug/l

RT: 7.104 min Scan# 987

Delta R.T. -0.006 min

Lab File: VX048862.D

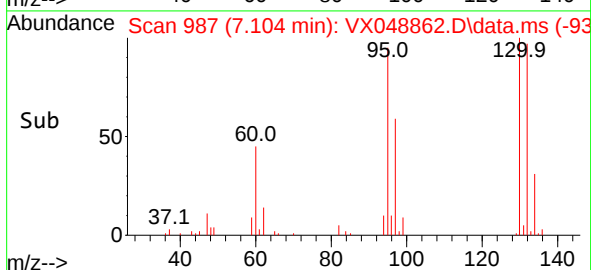
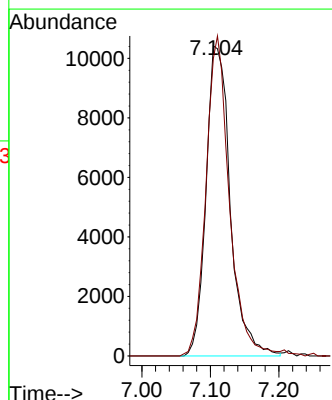
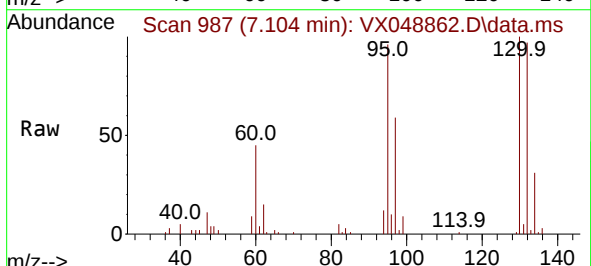
Acq: 12 Dec 2025 17:52

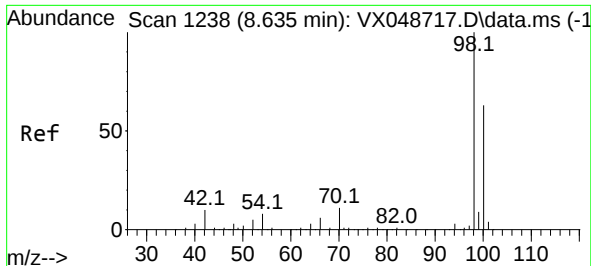
Tgt Ion: 130 Resp: 25638

Ion Ratio Lower Upper

130 100

95 95.9 0.0 189.6

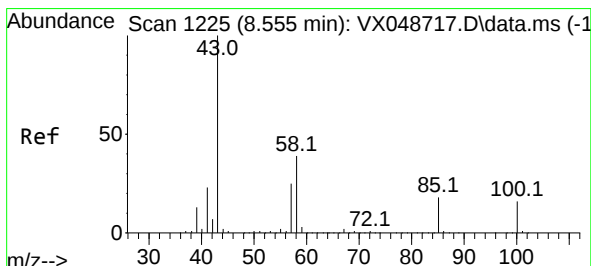
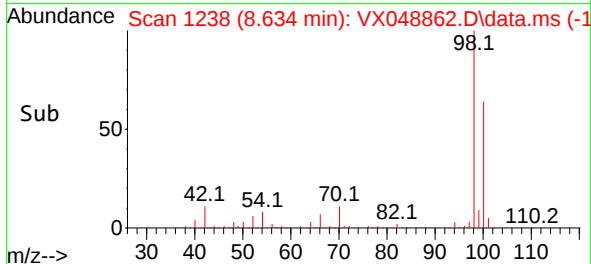
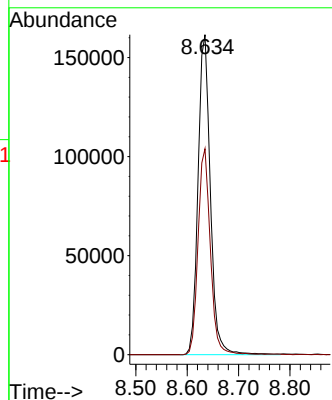
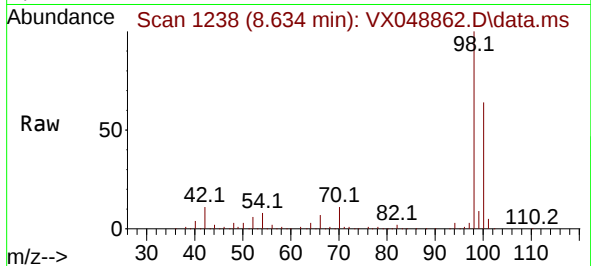




#50  
Toluene-d8  
Concen: 47.064 ug/l  
RT: 8.634 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

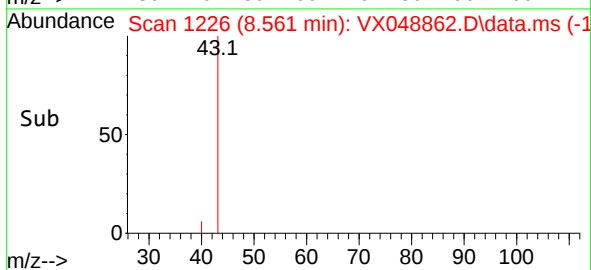
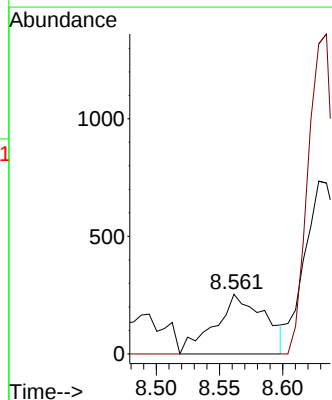
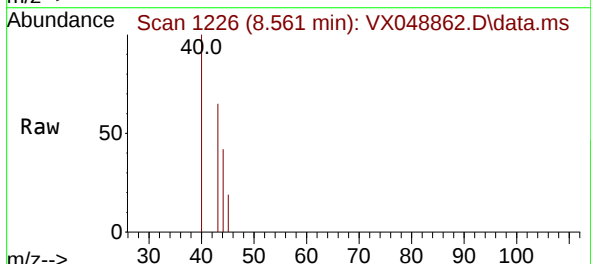
Instrument :  
MSVOA\_X  
ClientSampleId :  
BR-04DR-451-120825

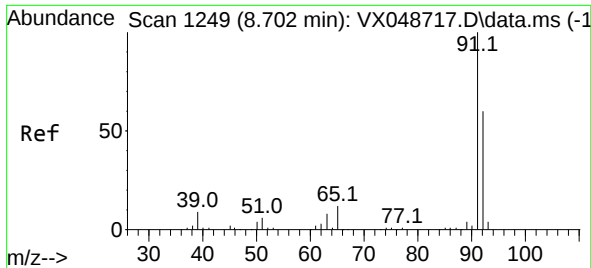
Tgt Ion: 98 Resp: 269212  
Ion Ratio Lower Upper  
98 100  
100 64.2 53.4 80.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.276 ug/l  
RT: 8.561 min Scan# 1226  
Delta R.T. 0.006 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion: 43 Resp: 692  
Ion Ratio Lower Upper  
43 100  
58 0.0 32.2 48.4#

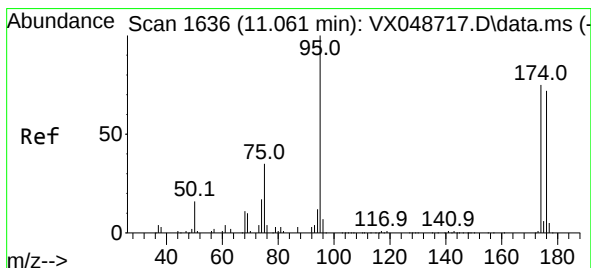
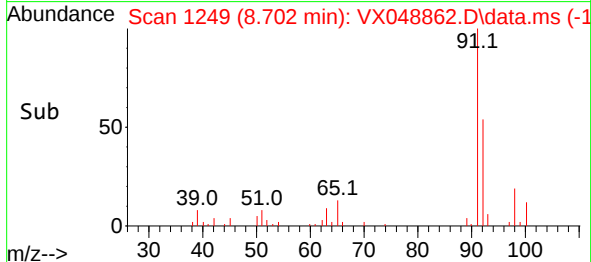
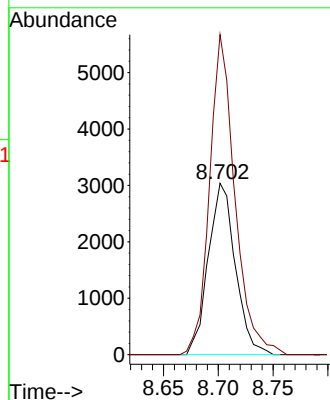
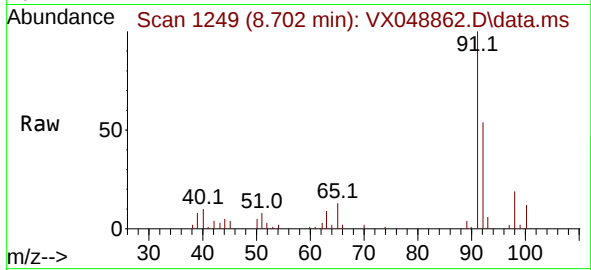




#52  
Toluene  
Concen: 1.306 ug/l  
RT: 8.702 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

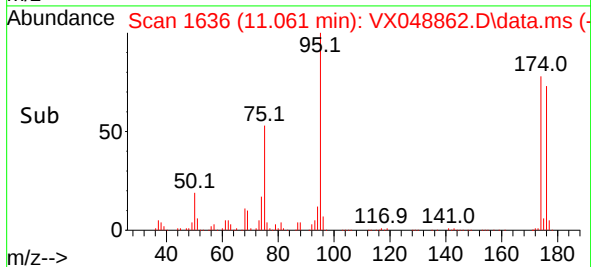
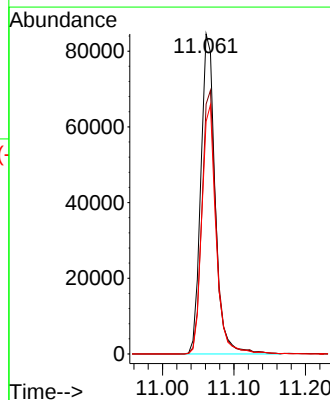
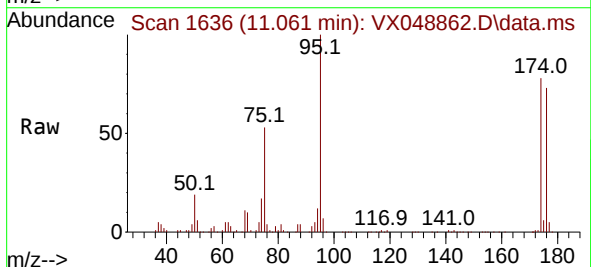
Instrument : MSVOA\_X  
ClientSampleId : BR-04DR-451-120825

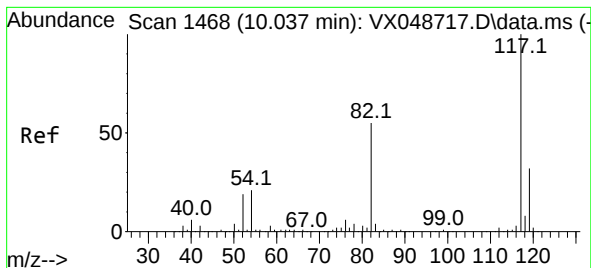
Tgt Ion: 92 Resp: 5219  
Ion Ratio Lower Upper  
92 100  
91 175.1 136.3 204.5



#62  
4-Bromofluorobenzene  
Concen: 59.606 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion: 95 Resp: 117573  
Ion Ratio Lower Upper  
95 100  
174 82.8 0.0 157.8  
176 77.6 0.0 154.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048862.D

Acq: 12 Dec 2025 17:52

Instrument :

MSVOA\_X

ClientSampleId :

BR-04DR-451-120825

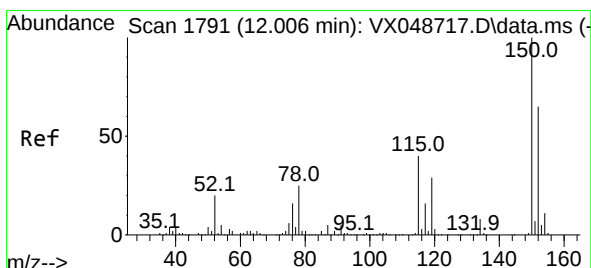
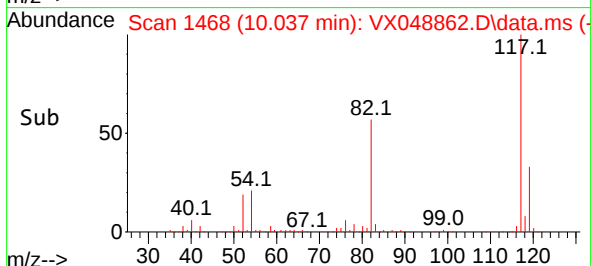
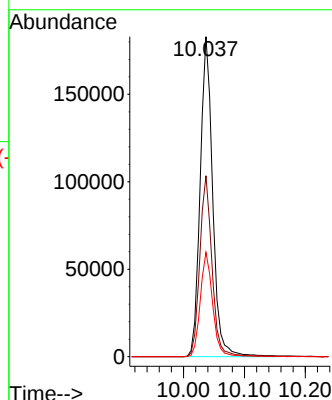
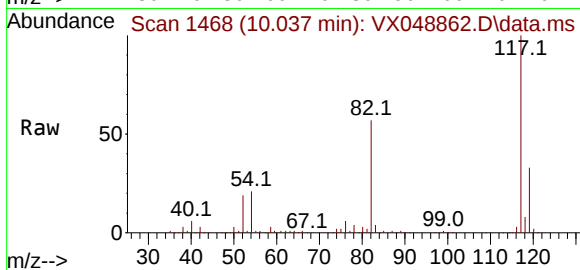
Tgt Ion:117 Resp: 261744

Ion Ratio Lower Upper

117 100

82 56.5 44.1 66.1

119 32.6 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX048862.D

Acq: 12 Dec 2025 17:52

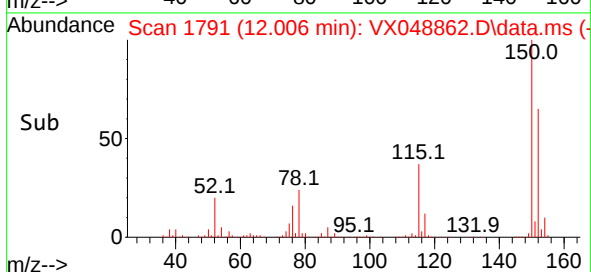
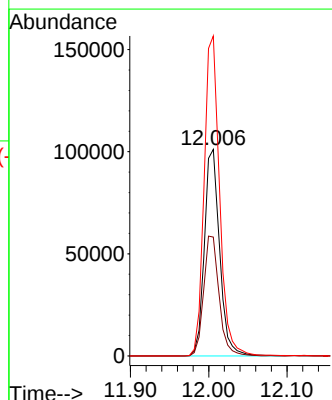
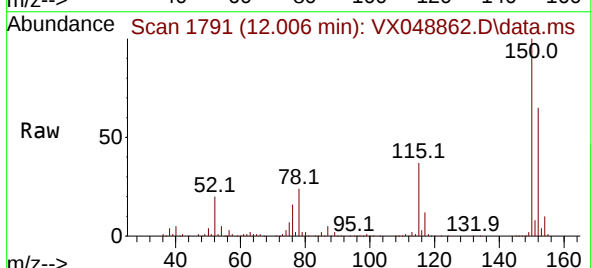
Tgt Ion:152 Resp: 136774

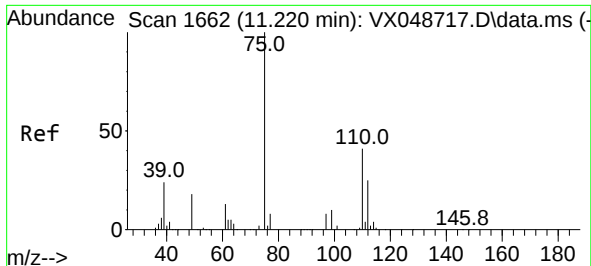
Ion Ratio Lower Upper

152 100

115 58.7 42.1 126.4

150 156.8 0.0 347.8

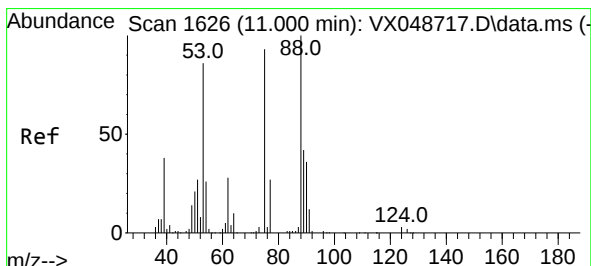
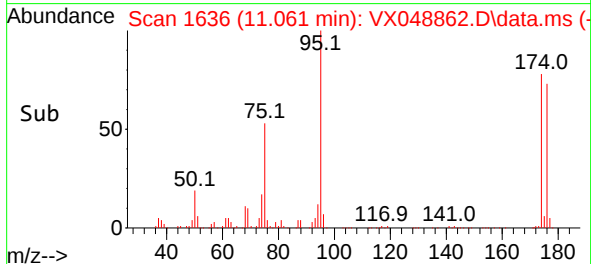
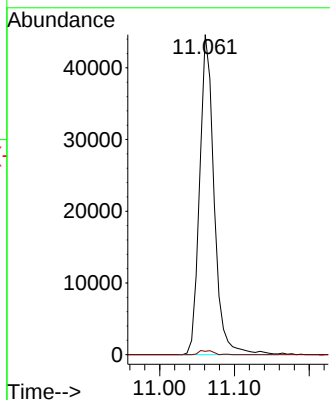
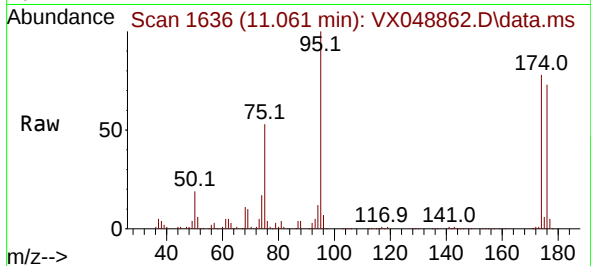




#76  
1,2,3-Trichloropropane  
Concen: 23.616 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. -0.159 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

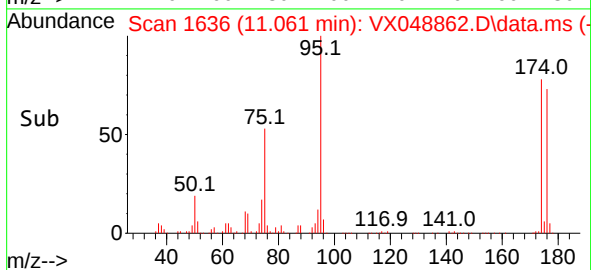
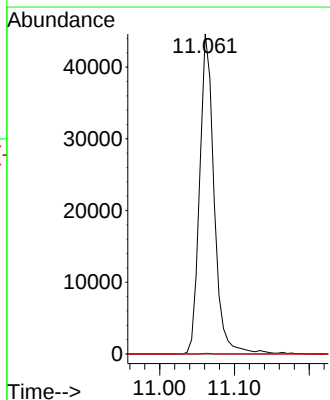
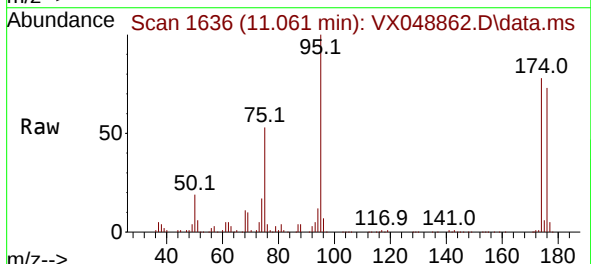
Instrument :  
MSVOA\_X  
ClientSampleId :  
BR-04DR-451-120825

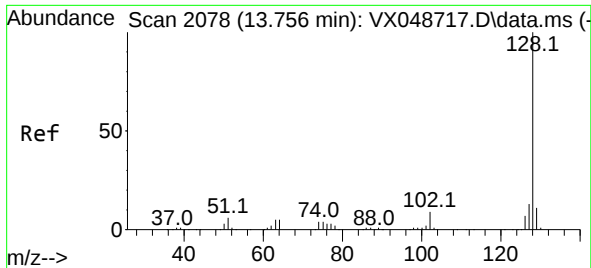
Tgt Ion: 75 Resp: 60162  
Ion Ratio Lower Upper  
75 100  
77 1.3 24.3 73.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 56.099 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. 0.061 min  
Lab File: VX048862.D  
Acq: 12 Dec 2025 17:52

Tgt Ion: 75 Resp: 60162  
Ion Ratio Lower Upper  
75 100  
53 0.1 79.9 119.9#  
89 0.0 67.1 100.7#





#95

Naphthalene

Concen: Below Cal

RT: 13.774 min Scan# 20

Delta R.T. 0.018 min

Lab File: VX048862.D

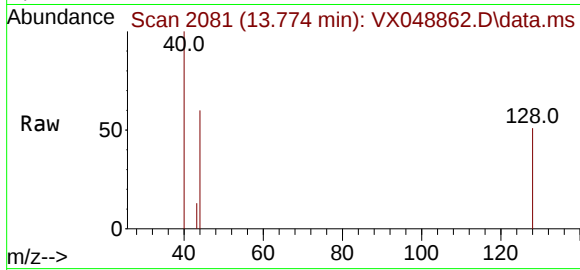
Acq: 12 Dec 2025 17:52

Instrument :

MSVOA\_X

ClientSampleId :

BR-04DR-451-120825



Tgt Ion:128 Resp: 259

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 13.0#

