

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091725\  
 Data File : VX047623.D  
 Acq On : 17 Sep 2025 16:55  
 Operator : JC/MD  
 Sample : Q3095-20  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW178S-20250910

Quant Time: Sep 22 03:10:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 17 06:39:58 2025  
 Response via : Initial Calibration

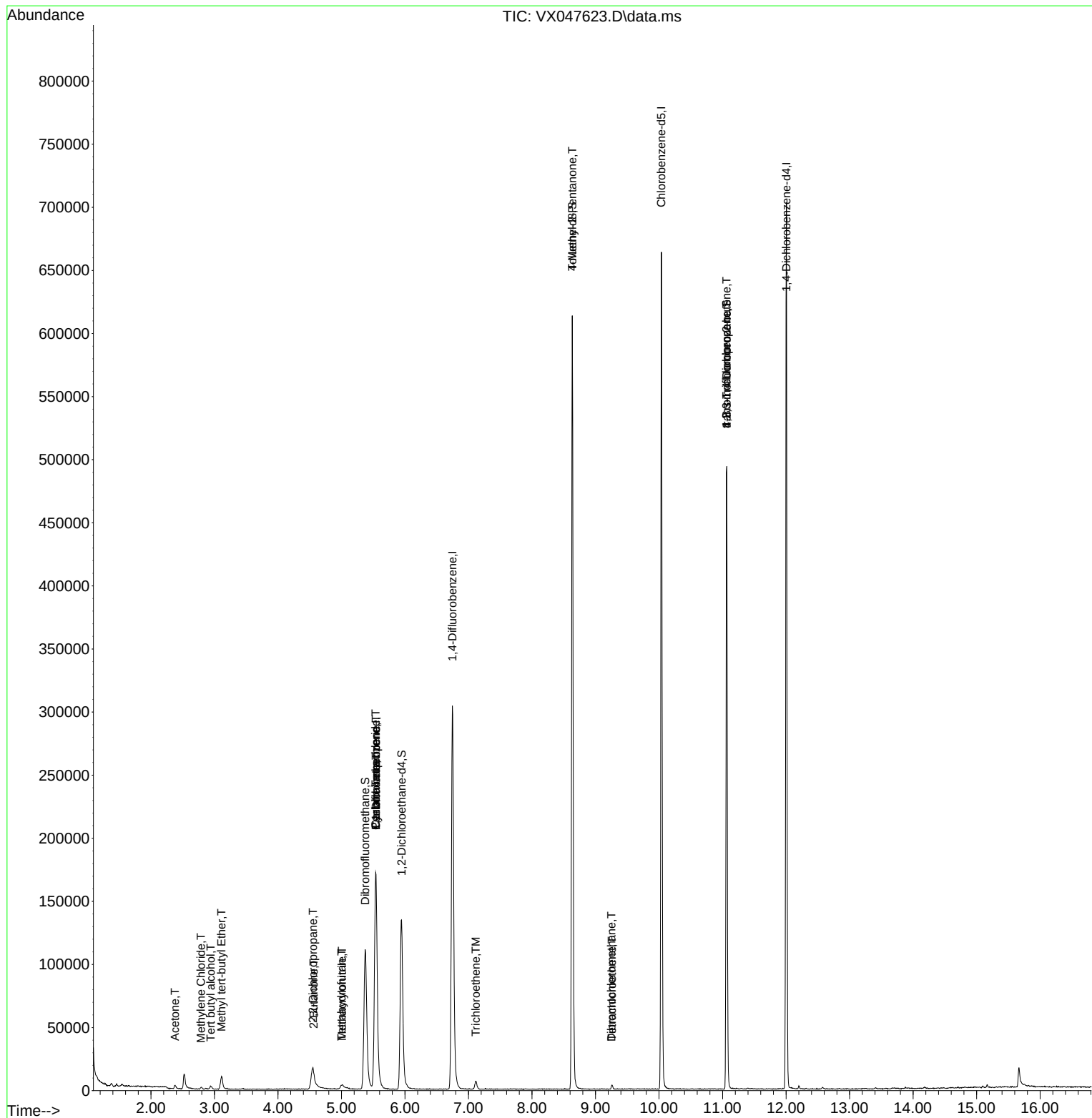
| Compound                      | R.T. QIon |       | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|--------|----------|
| -----                         |           |       |          |          |        |          |
| Internal Standards            |           |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.543     | 168   | 172733   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.744     | 114   | 327121   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.036    | 117   | 291724   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.006    | 152   | 142007   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.946     | 65    | 148355   | 53.958   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery | =      | 107.920% |
| 35) Dibromofluoromethane      | 5.373     | 113   | 108837   | 49.610   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery | =      | 99.220%  |
| 50) Toluene-d8                | 8.634     | 98    | 372315   | 49.046   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery | =      | 98.100%  |
| 62) 4-Bromofluorobenzene      | 11.061    | 95    | 144335   | 50.099   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery | =      | 100.200% |
| Target Compounds              |           |       |          |          |        |          |
|                               |           |       |          |          |        | Qvalue   |
| 11) Tert butyl alcohol        | 2.940     | 59    | 1373     | 4.484    | ug/l # | 72       |
| 16) Acetone                   | 2.379     | 43    | 3934     | 3.291    | ug/l   | 95       |
| 19) Methyl tert-butyl Ether   | 3.111     | 73    | 12180    | 1.626    | ug/l   | 99       |
| 20) Methylene Chloride        | 2.788     | 84    | 628      | 0.248    | ug/l   | 88       |
| 25) 2-Butanone                | 4.562     | 43    | 4168     | 2.795    | ug/l   | 97       |
| 26) 2,2-Dichloropropane       | 4.550     | 77    | 2020     | 0.557    | ug/l # | 54       |
| 29) Tetrahydrofuran           | 5.001     | 42    | 4213     | 4.696    | ug/l # | 45       |
| 31) Cyclohexane               | 5.543     | 56    | 4172     | 1.148    | ug/l # | 5        |
| 36) 1,1-Dichloropropene       | 5.543     | 75    | 14931    | 4.658    | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 5.537     | 117   | 18235    | 5.235    | ug/l # | 18       |
| 41) Methacrylonitrile         | 5.007     | 41    | 2141     | 1.208    | ug/l # | 48       |
| 44) Trichloroethene           | 7.116     | 130   | 2917     | 1.239    | ug/l   | 88       |
| 51) 4-Methyl-2-Pentanone      | 8.634     | 43    | 1904     | 0.610    | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.250     | 129   | 688      | 0.258    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.256     | 164   | 654      | 0.344    | ug/l # | 81       |
| 76) 1,2,3-Trichloropropane    | 11.061    | 75    | 76166    | 26.491   | ug/l # | 40       |
| 81) trans-1,4-Dichloro-2-b... | 11.061    | 75    | 76166    | 67.555   | ug/l # | 8        |
| -----                         |           |       |          |          |        |          |

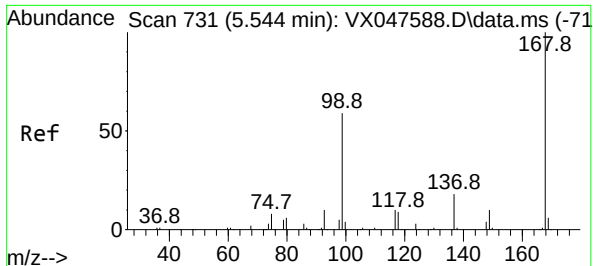
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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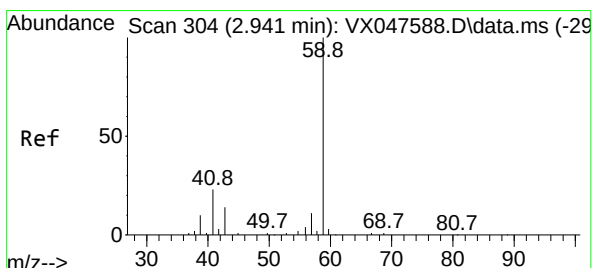
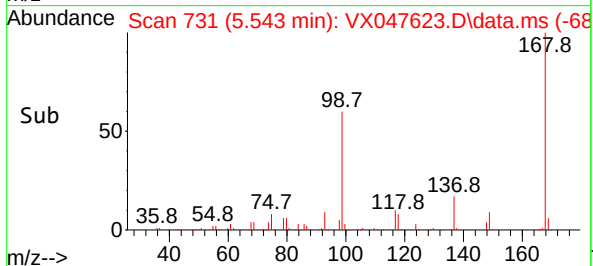
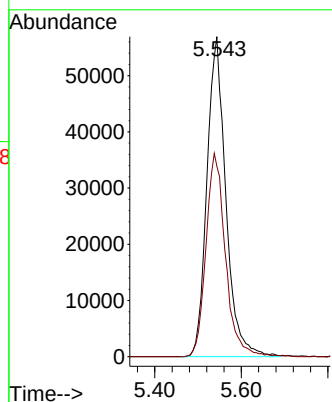
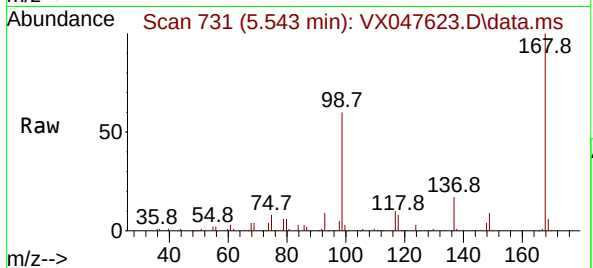




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.543 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

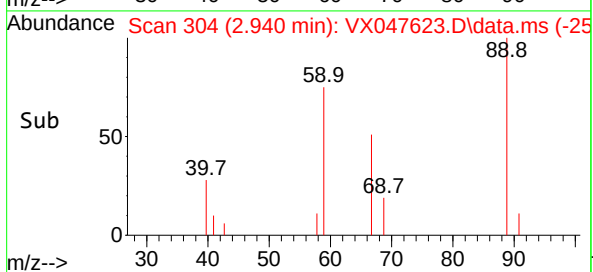
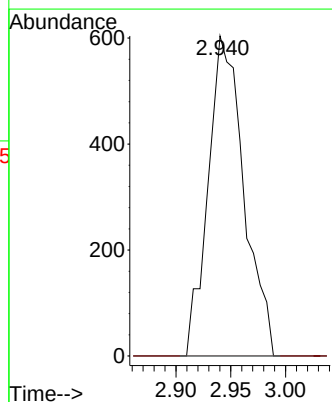
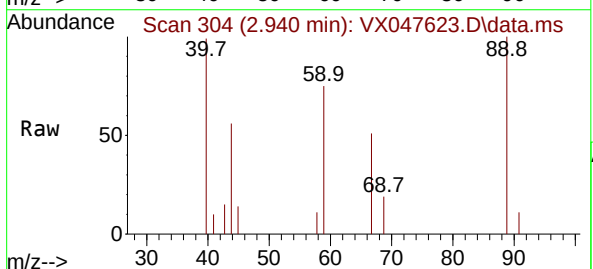
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW178S-20250910

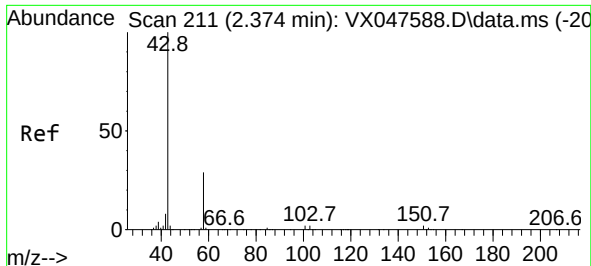
Tgt Ion:168 Resp: 172733  
Ion Ratio Lower Upper  
168 100  
99 59.6 48.8 73.2



#11  
Tert butyl alcohol  
Concen: 4.484 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

Tgt Ion: 59 Resp: 1373  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

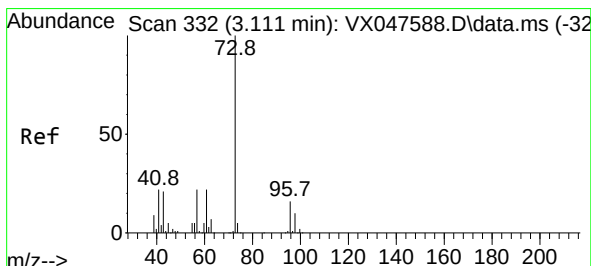
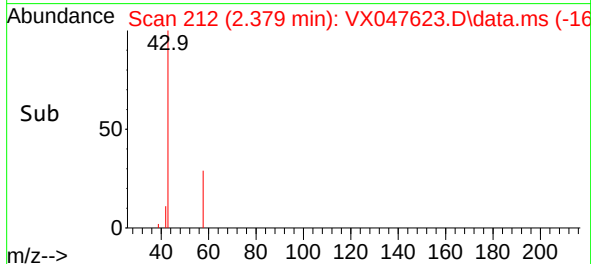
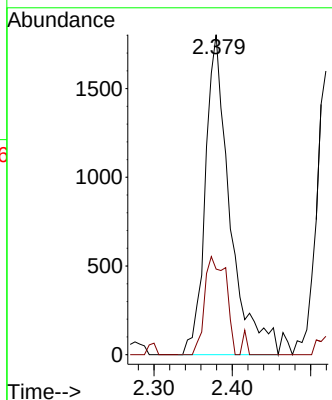
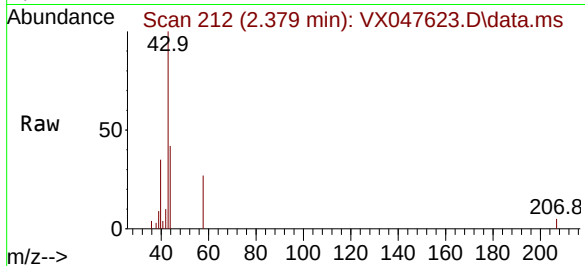




#16  
Acetone  
Concen: 3.291 ug/l  
RT: 2.379 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

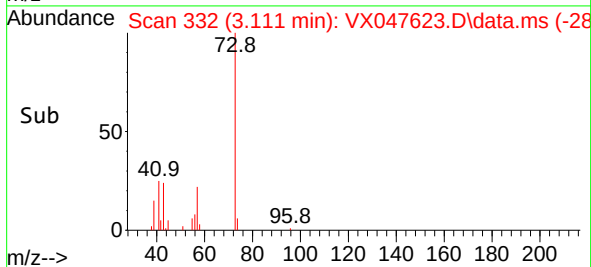
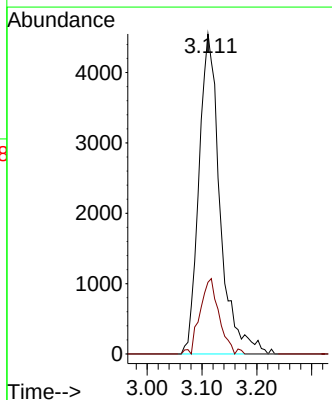
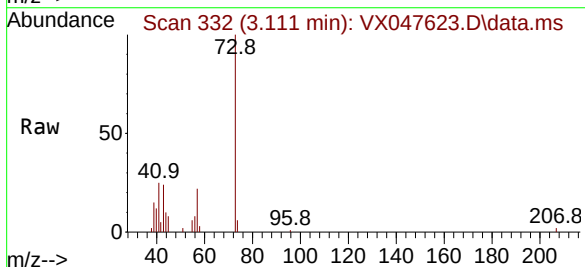
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MSVOA\_X  
ClientSampleId :  
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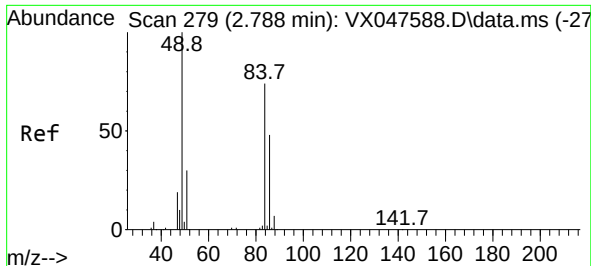
Tgt Ion: 43 Resp: 3934  
Ion Ratio Lower Upper  
43 100  
58 26.8 23.4 35.0



#19  
Methyl tert-butyl Ether  
Concen: 1.626 ug/l  
RT: 3.111 min Scan# 332  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

Tgt Ion: 73 Resp: 12180  
Ion Ratio Lower Upper  
73 100  
57 21.2 17.4 26.2

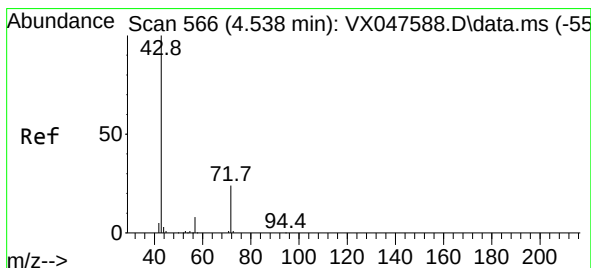
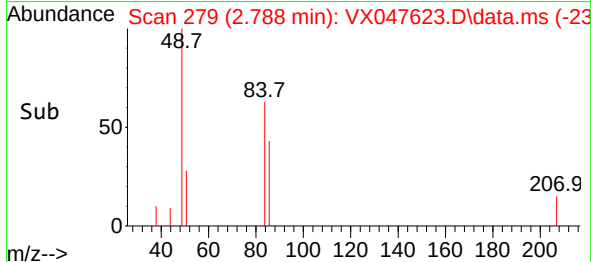
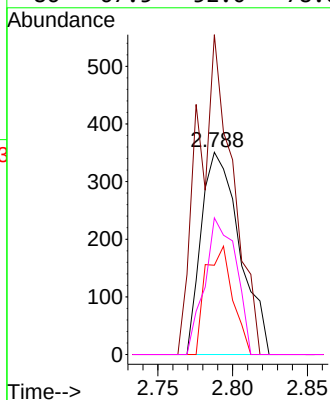
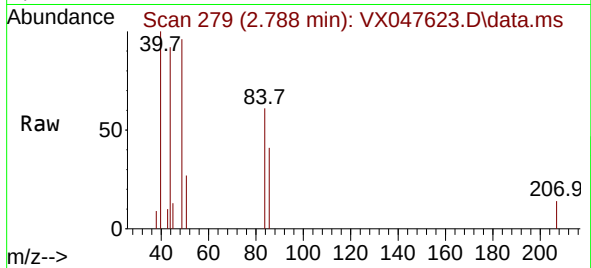




#20  
Methylene Chloride  
Concen: 0.248 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

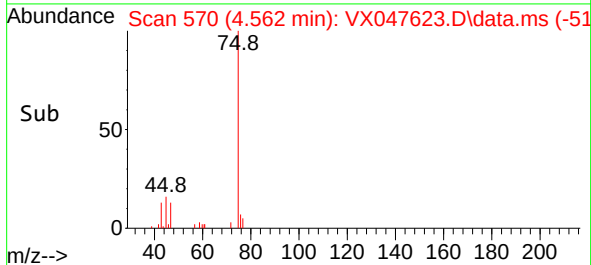
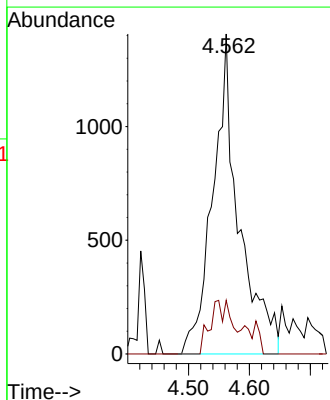
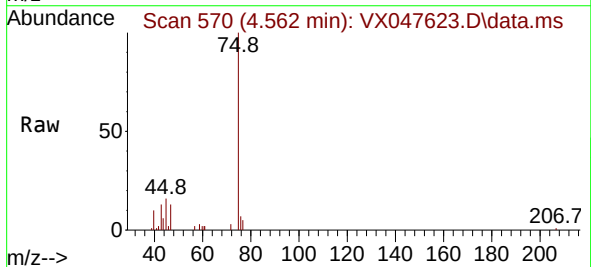
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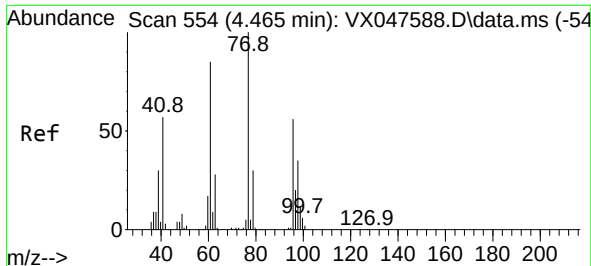
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 628   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 158.1 | 108.6 | 162.8 |
| 51       | 44.2  | 32.6  | 48.8  |
| 86       | 67.5  | 52.0  | 78.0  |



#25  
2-Butanone  
Concen: 2.795 ug/l  
RT: 4.562 min Scan# 570  
Delta R.T. 0.024 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4168  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 23.7  | 20.1  | 30.1  |

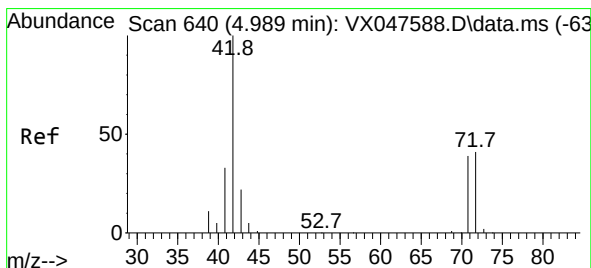
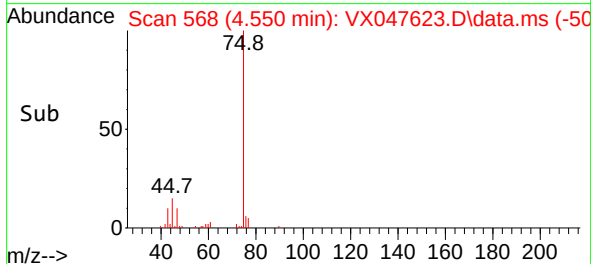
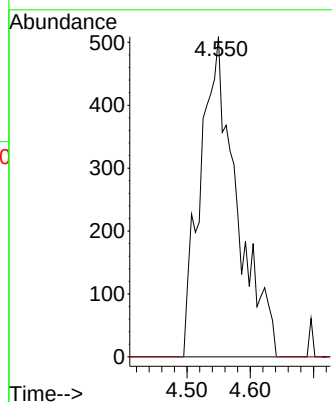
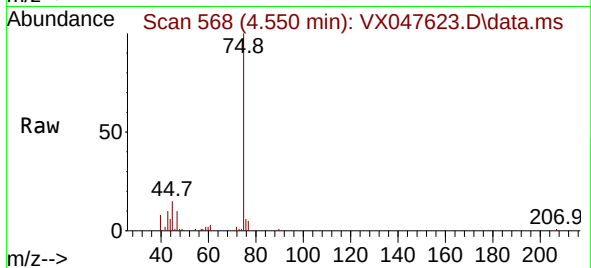




#26  
2,2-Dichloropropane  
Concen: 0.557 ug/l  
RT: 4.550 min Scan# 50  
Delta R.T. 0.085 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

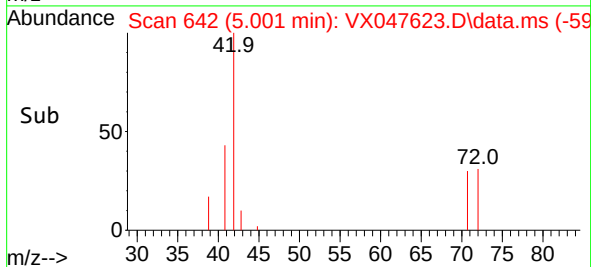
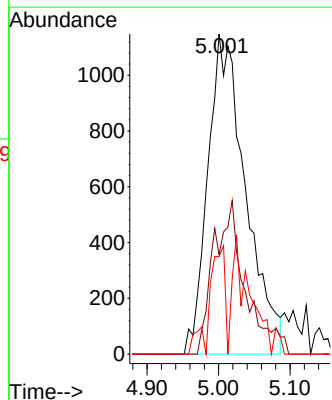
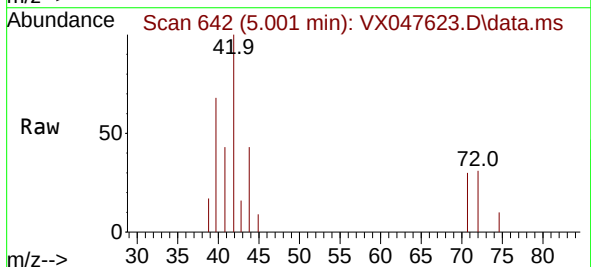
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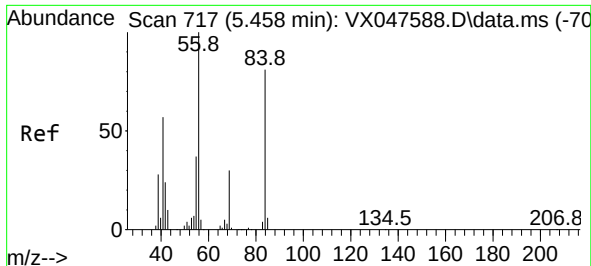
Tgt Ion: 77 Resp: 2020  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.9 32.7#



#29  
Tetrahydrofuran  
Concen: 4.696 ug/l  
RT: 5.001 min Scan# 642  
Delta R.T. 0.012 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

Tgt Ion: 42 Resp: 4213  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.2#  
71 13.9 31.9 47.9#

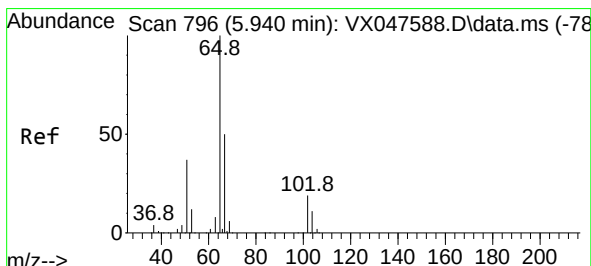
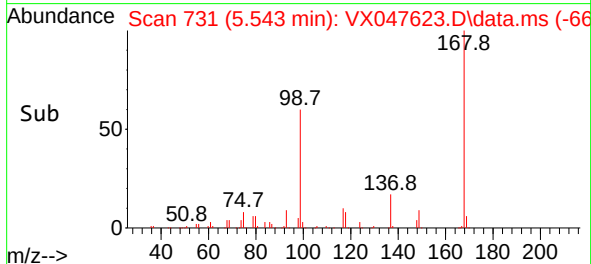
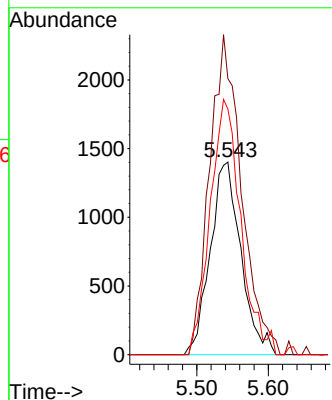
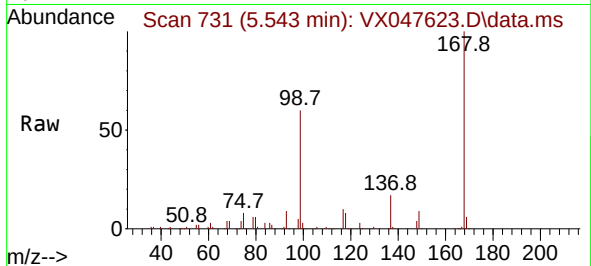




#31  
Cyclohexane  
Concen: 1.148 ug/l  
RT: 5.543 min Scan# 717  
Delta R.T. 0.085 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

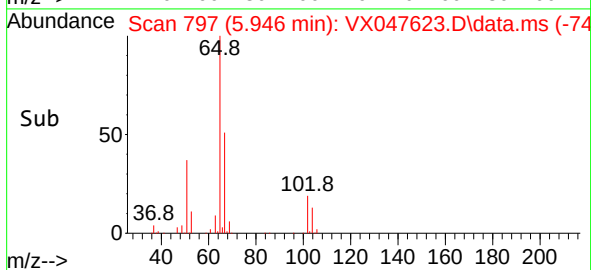
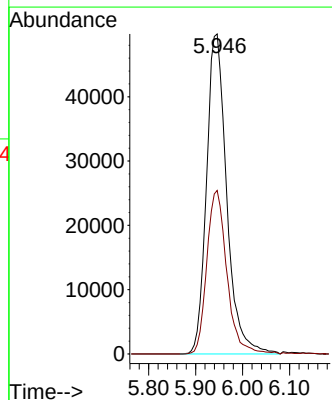
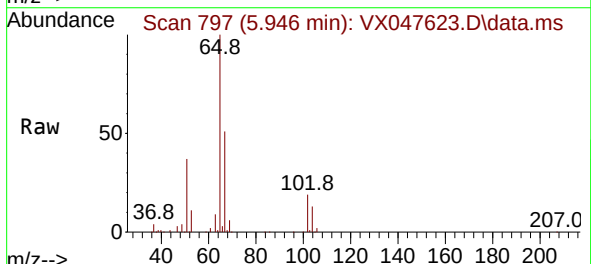
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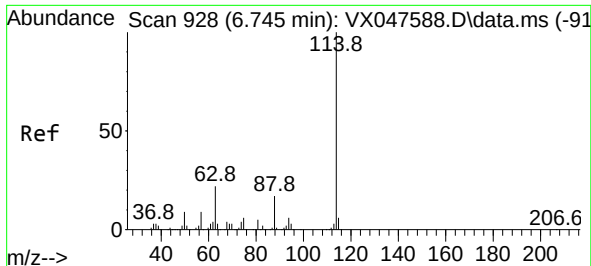
Tgt Ion: 56 Resp: 4172  
Ion Ratio Lower Upper  
56 100  
69 143.3 23.8 35.8#  
84 127.5 64.6 97.0#



#33  
1,2-Dichloroethane-d4  
Concen: 53.958 ug/l  
RT: 5.946 min Scan# 797  
Delta R.T. 0.006 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

Tgt Ion: 65 Resp: 148355  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 103.0

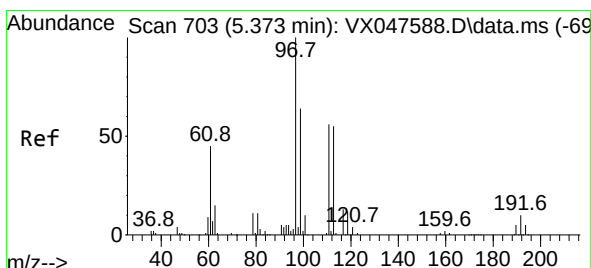
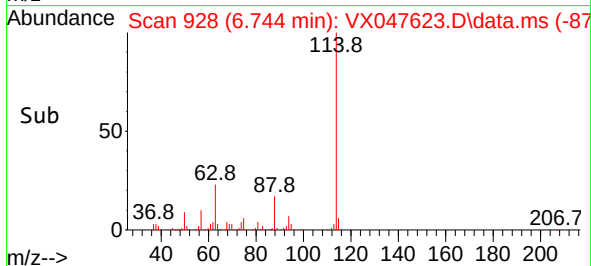
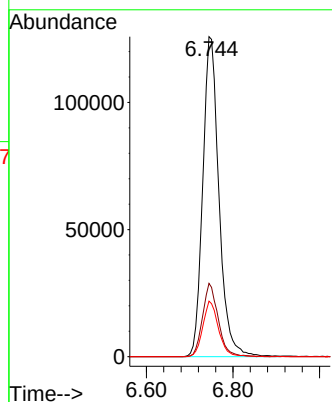
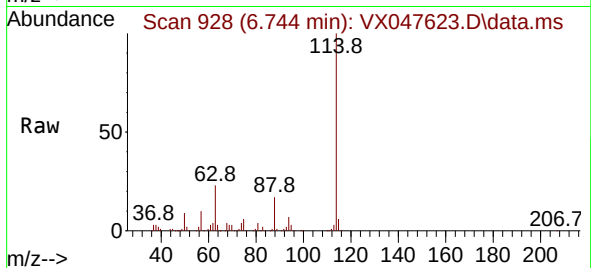




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.744 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

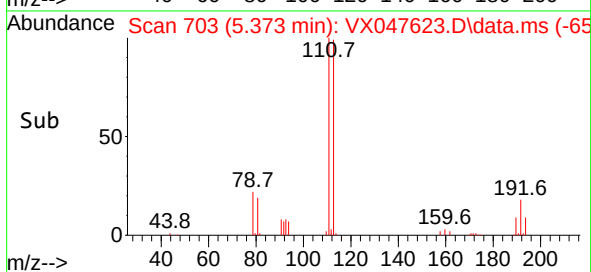
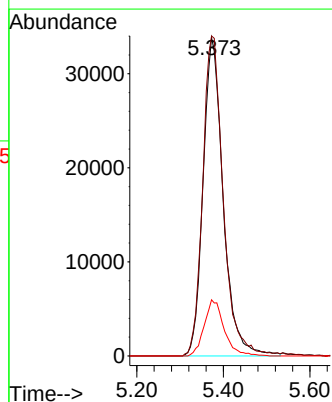
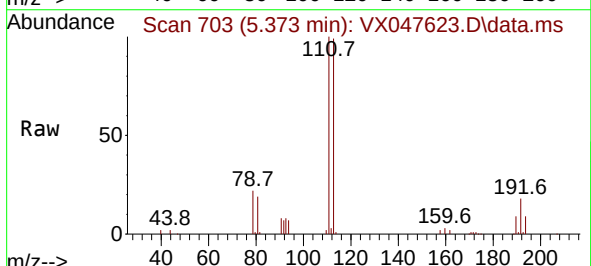
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Tgt Ion:114 Resp: 327121  
Ion Ratio Lower Upper  
114 100  
63 22.9 0.0 44.0  
88 17.4 0.0 34.2

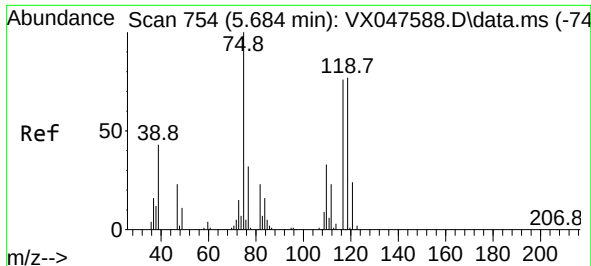


#35  
Dibromofluoromethane  
Concen: 49.610 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

Tgt Ion:113 Resp: 108837  
Ion Ratio Lower Upper  
113 100  
111 103.1 80.9 121.3  
192 17.6 14.2 21.4







#36

1,1-Dichloropropene

Concen: 4.658 ug/l

RT: 5.543 min Scan# 71

Delta R.T. -0.141 min

Lab File: VX047623.D

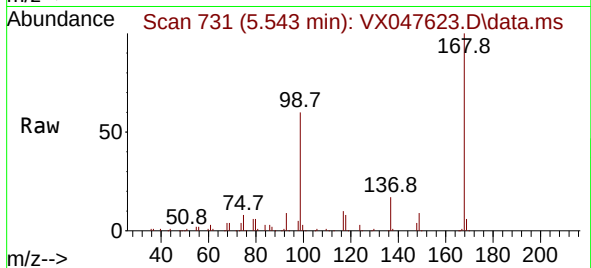
Acq: 17 Sep 2025 16:55

Instrument :

MSVOA\_X

ClientSampleId :

MW178S-20250910



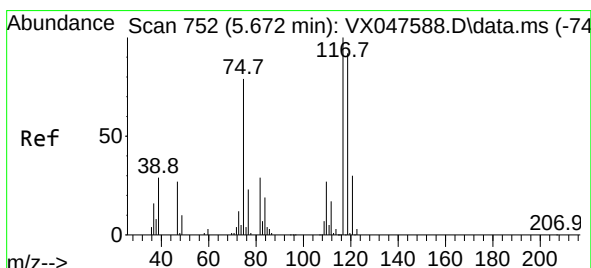
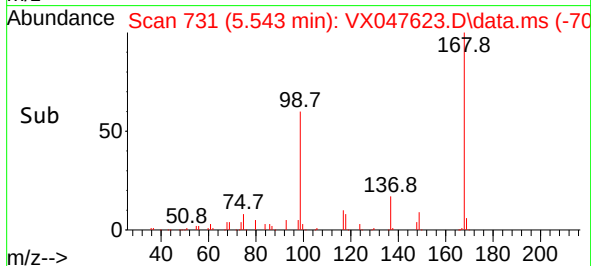
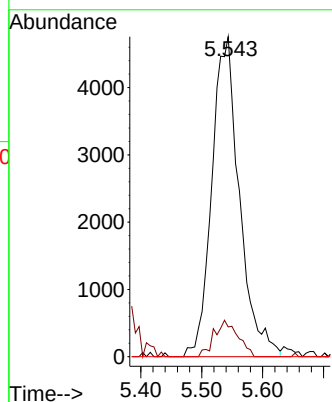
Tgt Ion: 75 Resp: 14931

Ion Ratio Lower Upper

75 100

110 9.7 16.7 50.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 5.235 ug/l

RT: 5.537 min Scan# 730

Delta R.T. -0.135 min

Lab File: VX047623.D

Acq: 17 Sep 2025 16:55

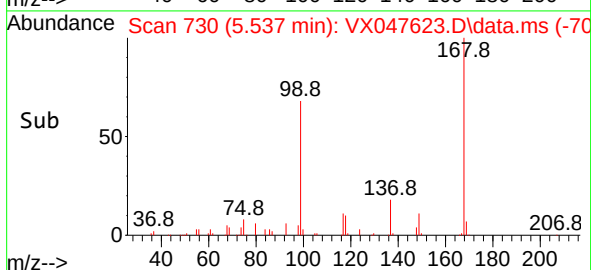
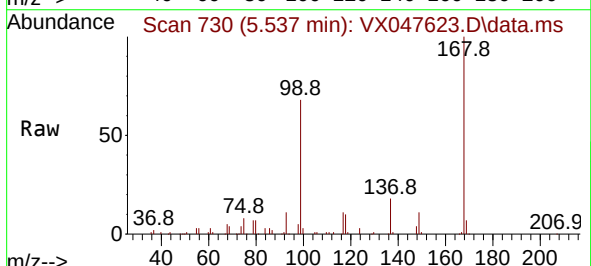
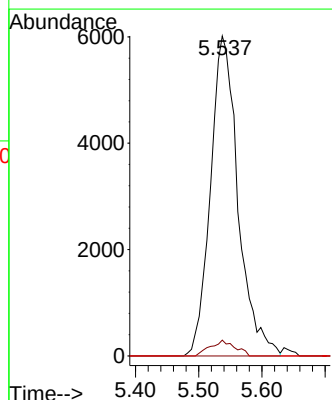
Tgt Ion: 117 Resp: 18235

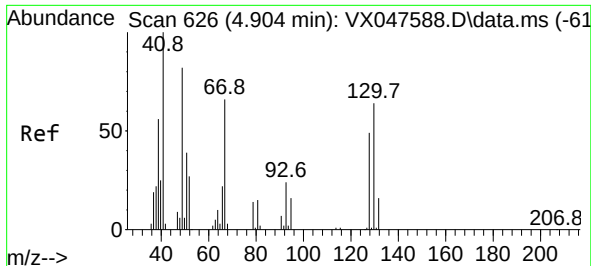
Ion Ratio Lower Upper

117 100

119 5.0 73.4 110.2#

121 0.0 23.8 35.6#

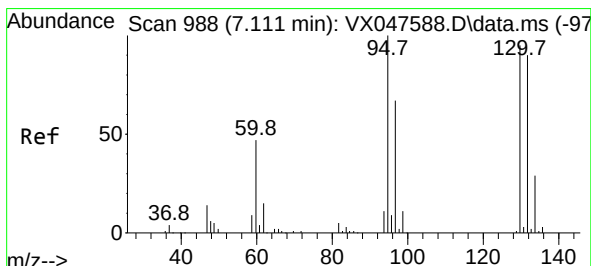
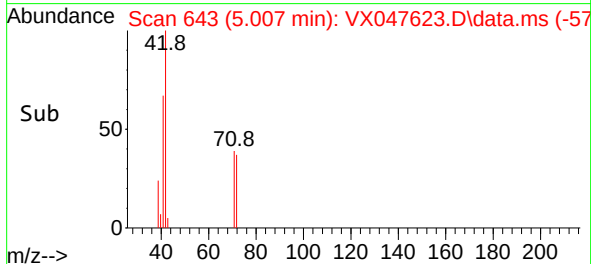
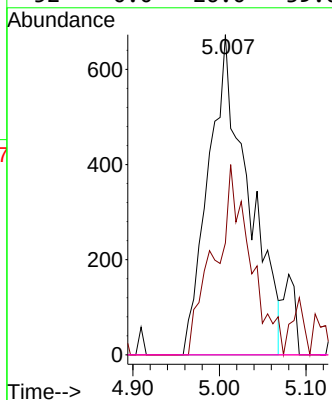
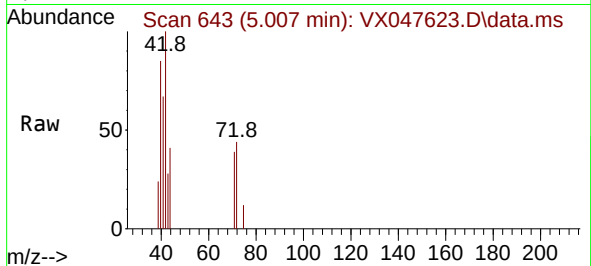




#41  
Methacrylonitrile  
Concen: 1.208 ug/l  
RT: 5.007 min Scan# 643  
Delta R.T. 0.103 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

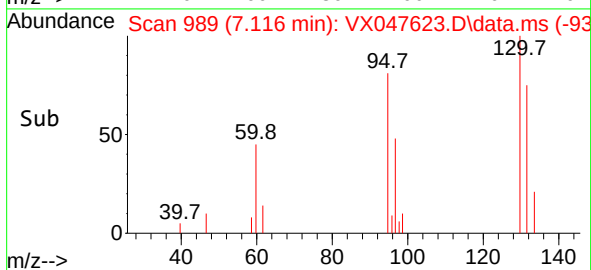
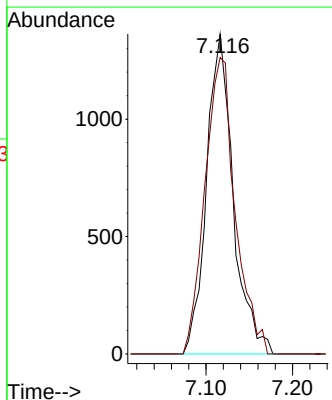
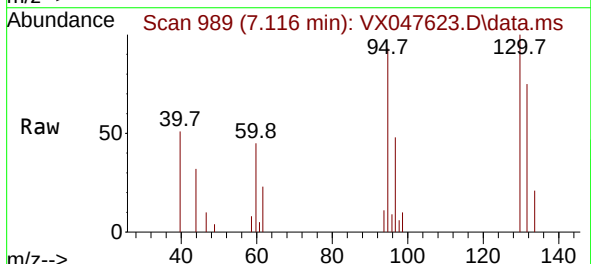
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW178S-20250910

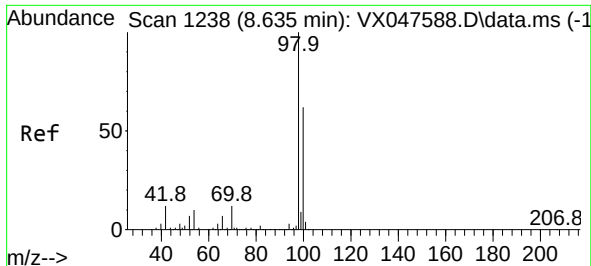
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 2141  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 53.3  | 43.3  | 64.9  |
| 67       | 0.0   | 58.6  | 87.8# |
| 52       | 0.0   | 26.0  | 39.0# |



#44  
Trichloroethene  
Concen: 1.239 ug/l  
RT: 7.116 min Scan# 989  
Delta R.T. 0.006 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 2917  |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 92.7  | 0.0   | 210.8 |

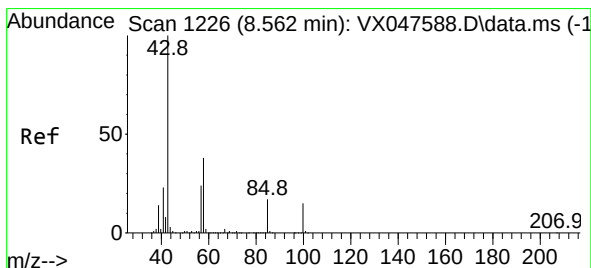
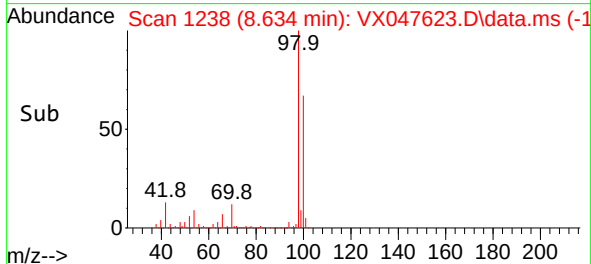
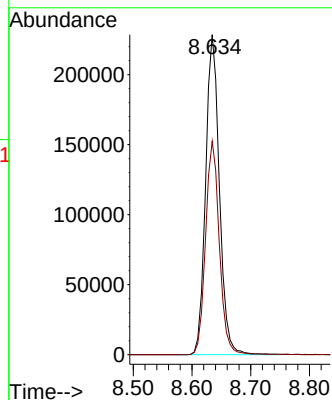
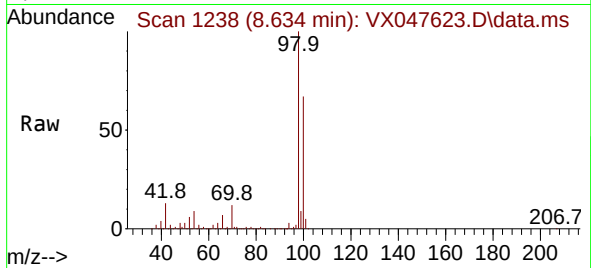




#50  
Toluene-d8  
Concen: 49.046 ug/l  
RT: 8.634 min Scan# 1238  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

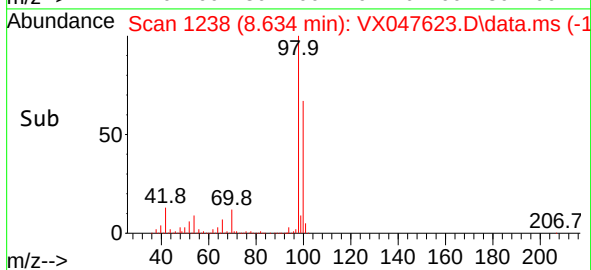
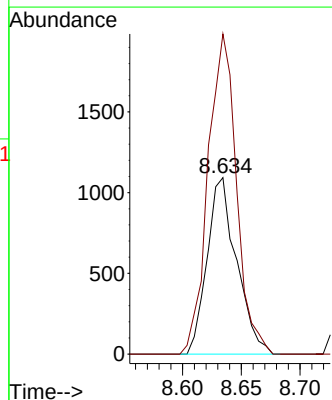
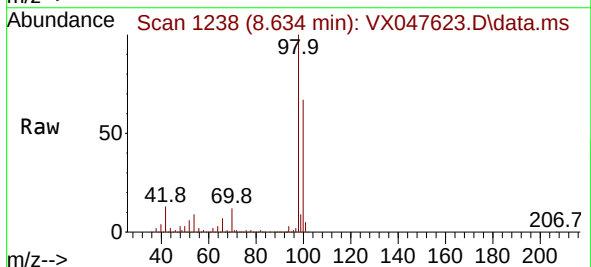
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW178S-20250910

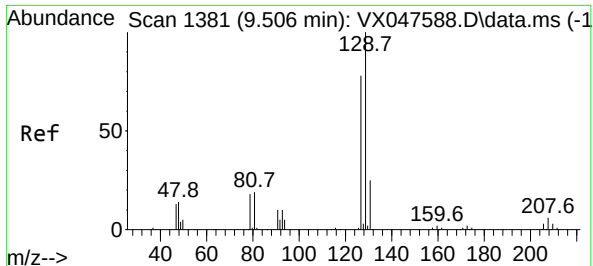
Tgt Ion: 98 Resp: 372315  
Ion Ratio Lower Upper  
98 100  
100 66.9 53.0 79.4



#51  
4-Methyl-2-Pentanone  
Concen: 0.610 ug/l  
RT: 8.634 min Scan# 1238  
Delta R.T. 0.073 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

Tgt Ion: 43 Resp: 1904  
Ion Ratio Lower Upper  
43 100  
58 175.6 30.3 45.5#

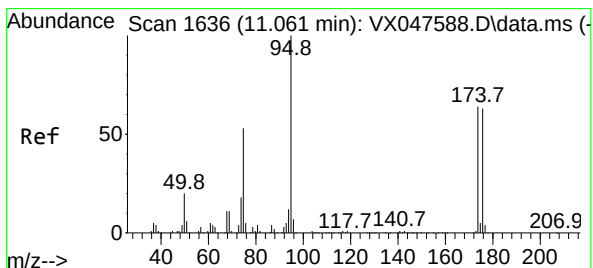
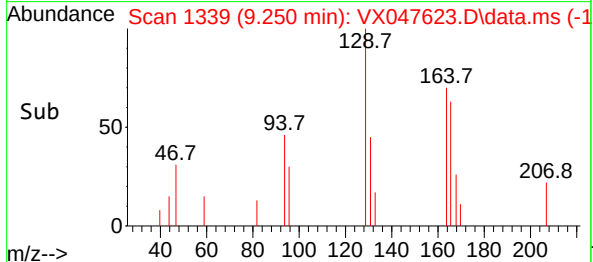
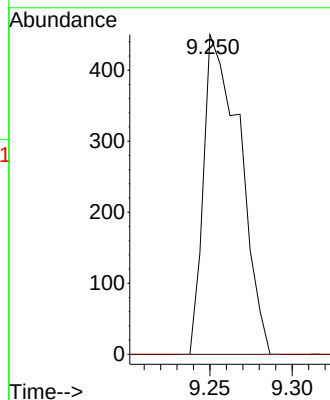
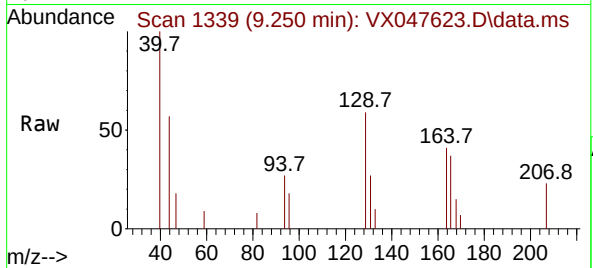




#60  
Dibromochloromethane  
Concen: 0.258 ug/l  
RT: 9.250 min Scan# 11339  
Delta R.T. -0.256 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

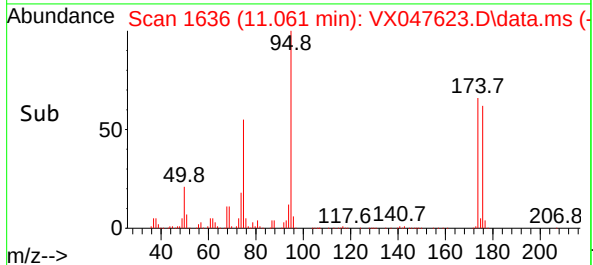
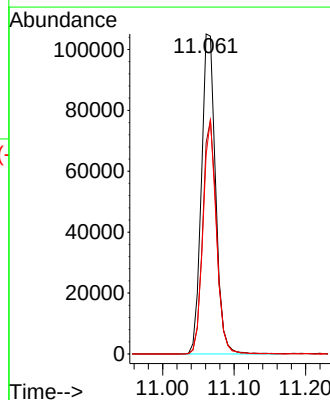
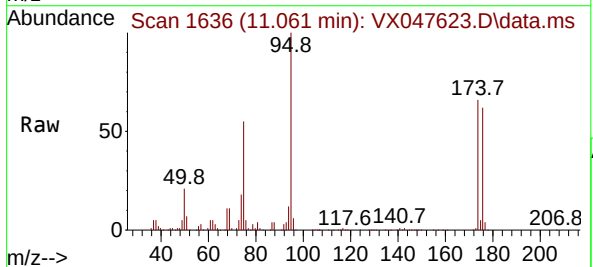
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW178S-20250910

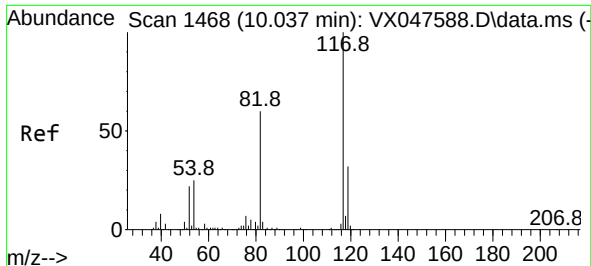
Tgt Ion:129 Resp: 688  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#



#62  
4-Bromofluorobenzene  
Concen: 50.099 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

Tgt Ion: 95 Resp: 144335  
Ion Ratio Lower Upper  
95 100  
174 71.1 0.0 141.6  
176 69.4 0.0 138.4

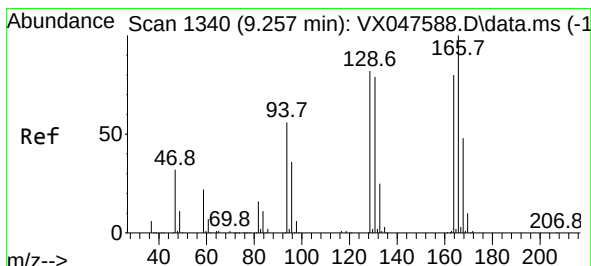
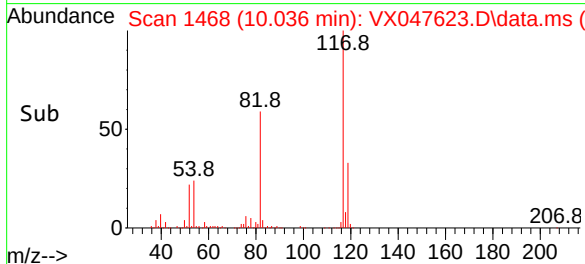
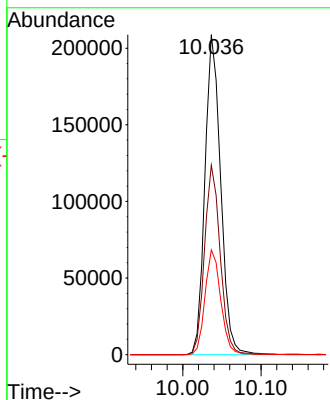
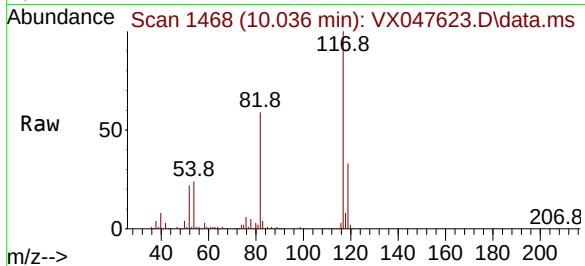




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.036 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

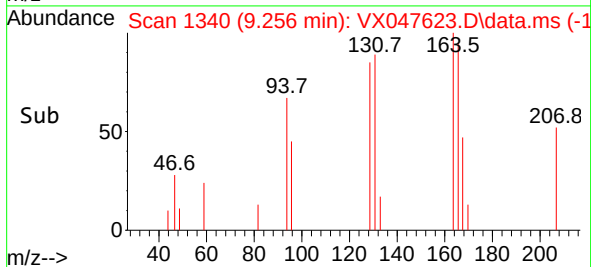
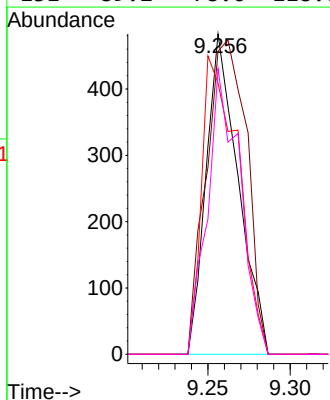
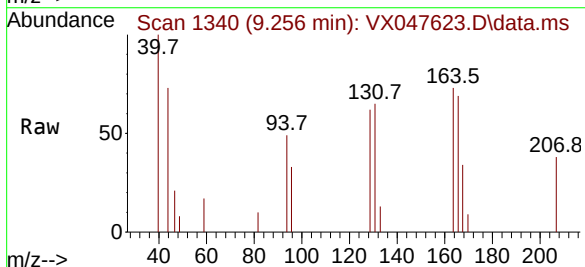
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW178S-20250910

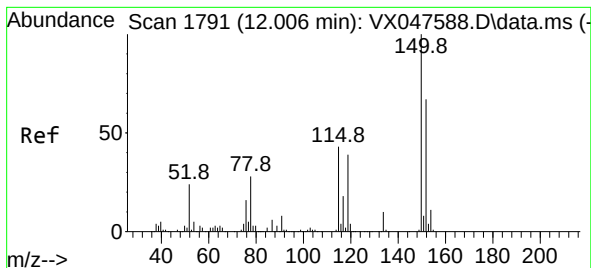
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 291724 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 59.3  | 47.8  | 71.6   |
| 119      | 32.8  | 25.2  | 37.8   |



#64  
Tetrachloroethene  
Concen: 0.344 ug/l  
RT: 9.256 min Scan# 1340  
Delta R.T. -0.000 min  
Lab File: VX047623.D  
Acq: 17 Sep 2025 16:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 654    |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 166      | 94.6  | 100.2 | 150.2# |
| 129      | 84.7  | 81.8  | 122.6  |
| 131      | 89.2  | 78.6  | 118.0  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047623.D

Acq: 17 Sep 2025 16:55

Instrument :

MSVOA\_X

ClientSampleId :

MW178S-20250910

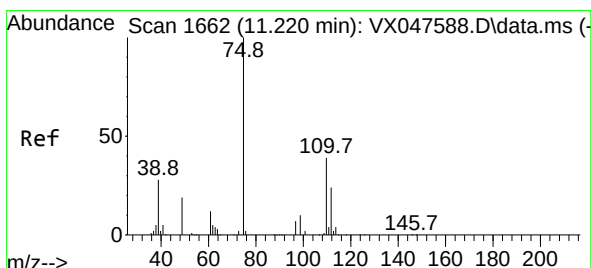
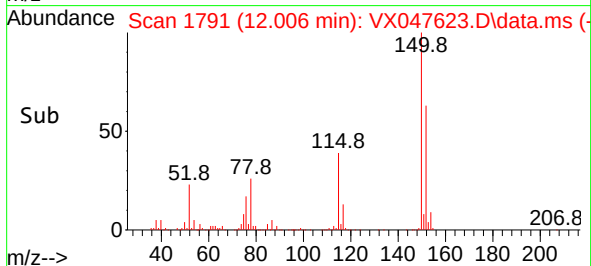
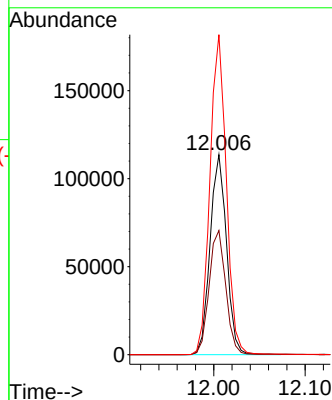
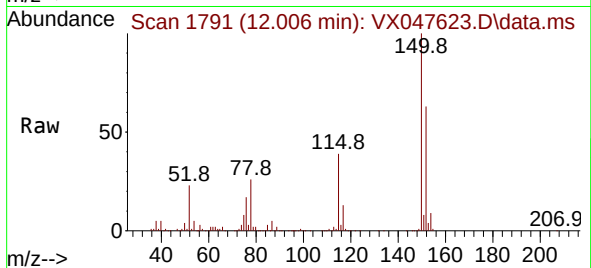
Tgt Ion:152 Resp: 142007

Ion Ratio Lower Upper

152 100

115 63.2 44.9 134.5

150 159.3 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 26.491 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX047623.D

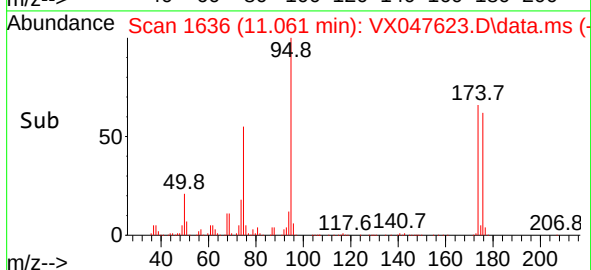
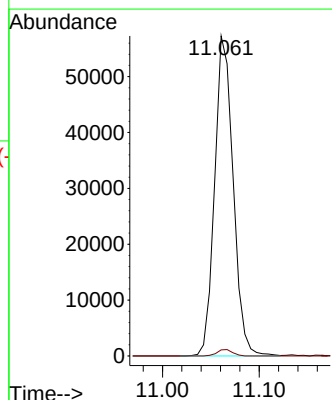
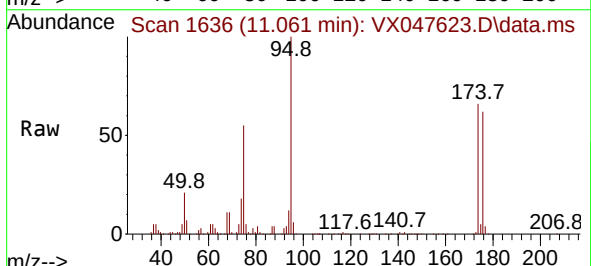
Acq: 17 Sep 2025 16:55

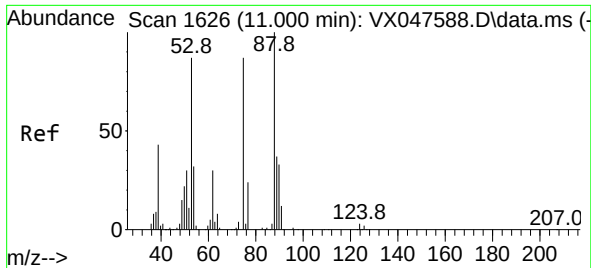
Tgt Ion: 75 Resp: 76166

Ion Ratio Lower Upper

75 100

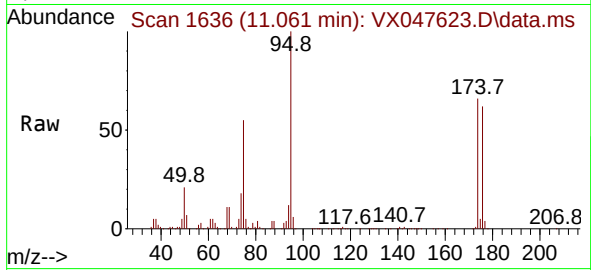
77 1.7 18.8 56.4#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 67.555 ug/l  
 RT: 11.061 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX047623.D  
 Acq: 17 Sep 2025 16:55

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW178S-20250910



Tgt Ion: 75 Resp: 76166  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 83.4 125.2#  
 89 0.0 36.3 54.5#

