

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV092625\  
 Data File : VV039211.D  
 Acq On : 26 Sep 2025 14:36  
 Operator : SY/MD  
 Sample : Q3195-08  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MW-21M-091925

Quant Time: Sep 27 02:56:54 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V092225W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 24 08:08:08 2025  
 Response via : Initial Calibration

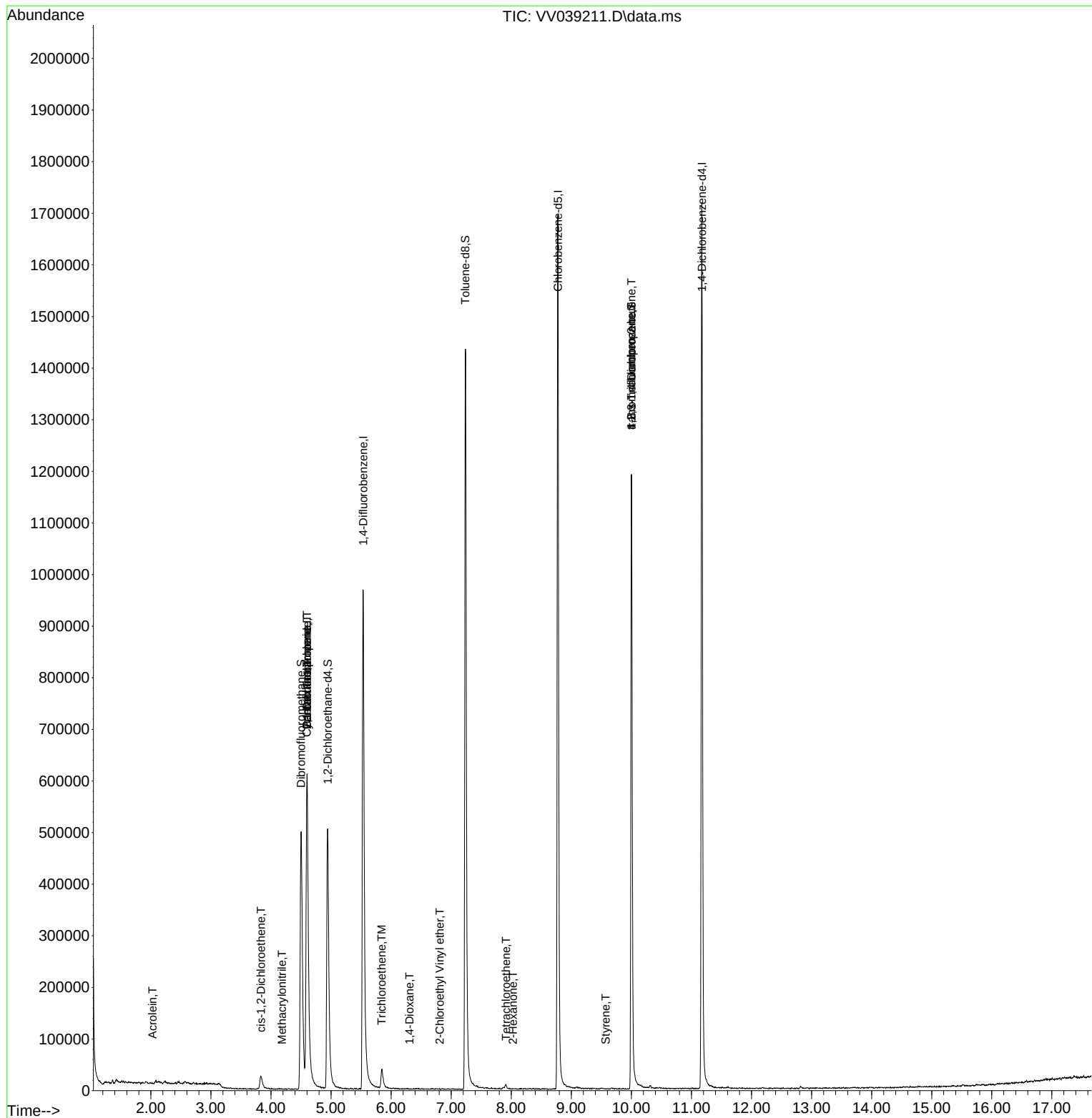
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 4.600  | 168   | 513487   | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 5.535  | 114   | 944501   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 8.776  | 117   | 957014   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.175 | 152   | 451121   | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 4.944  | 65    | 452207   | 60.849    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 81 - 118 | Recovery  | = 121.700%# |          |
| 35) Dibromofluoromethane      | 4.500  | 113   | 418436   | 55.108    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 119 | Recovery  | = 110.220%  |          |
| 50) Toluene-d8                | 7.236  | 98    | 1055705  | 47.339    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 89 - 112 | Recovery  | = 94.680%   |          |
| 62) 4-Bromofluorobenzene      | 10.001 | 95    | 402477   | 43.840    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 85 - 114 | Recovery  | = 87.680%   |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 6) Chloroethane               | 1.626  | 64    | 514      | Below Cal | #           | 78       |
| 13) Acrolein                  | 2.031  | 56    | 383      | 1.405     | ug/l        | 83       |
| 16) Acetone                   | 2.124  | 43    | 4461     | Below Cal |             | 91       |
| 20) Methylene Chloride        | 2.462  | 84    | 1921     | Below Cal | #           | 82       |
| 27) cis-1,2-Dichloroethene    | 3.834  | 96    | 16420    | 1.806     | ug/l        | 82       |
| 31) Cyclohexane               | 4.597  | 56    | 12110    | 0.914     | ug/l        | # 1      |
| 36) 1,1-Dichloropropene       | 4.600  | 75    | 44731    | 3.896     | ug/l        | # 51     |
| 38) Carbon Tetrachloride      | 4.600  | 117   | 56338    | 4.015     | ug/l        | # 17     |
| 41) Methacrylonitrile         | 4.182  | 41    | 50       | 1.918     | ug/l        | # 37     |
| 44) Trichloroethene           | 5.844  | 130   | 17696    | 2.051     | ug/l        | 85       |
| 49) 1,4-Dioxane               | 6.307  | 88    | 53       | 0.381     | ug/l        | # 1      |
| 58) 2-Chloroethyl Vinyl ether | 6.812  | 63    | 76       | 9.634     | ug/l        | # 47     |
| 59) 2-Hexanone                | 8.030  | 43    | 156      | 2.341     | ug/l        | 82       |
| 64) Tetrachloroethene         | 7.912  | 164   | 1701     | 0.212     | ug/l        | 86       |
| 70) Styrene                   | 9.571  | 104   | 71       | 1.564     | ug/l        | # 7      |
| 76) 1,2,3-Trichloropropane    | 10.001 | 75    | 202619   | 19.727    | ug/l        | # 56     |
| 81) trans-1,4-Dichloro-2-b... | 10.001 | 75    | 202619   | 47.358    | ug/l        | # 13     |
| 92) 1,2-Dibromo-3-Chloropr... | 12.323 | 75    | 40       | Below Cal | #           | 5        |
| -----                         |        |       |          |           |             |          |

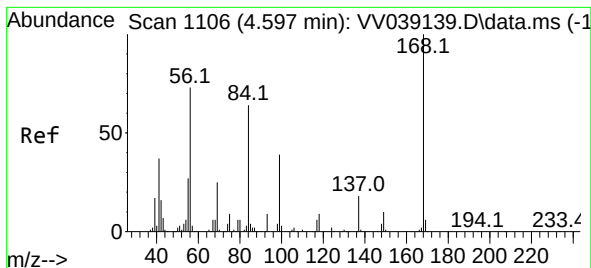
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V092225W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 24 08:08:08 2025  
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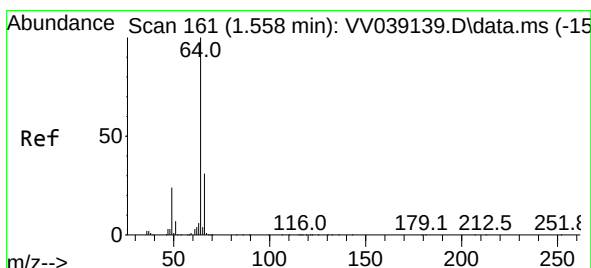
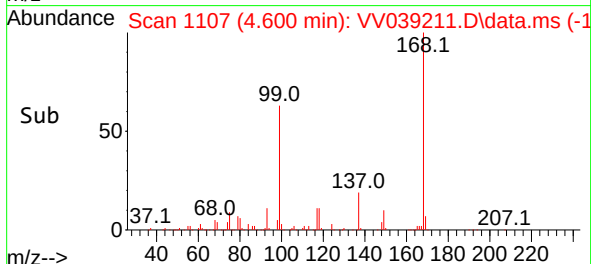
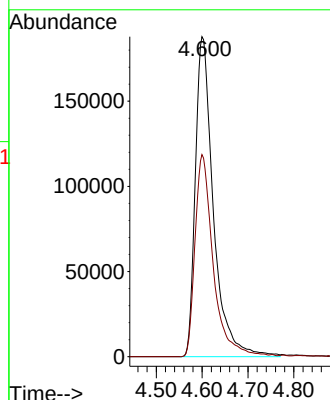
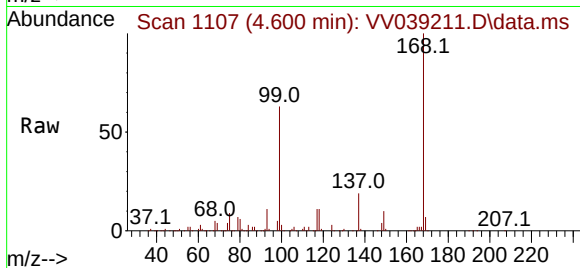




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.600 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

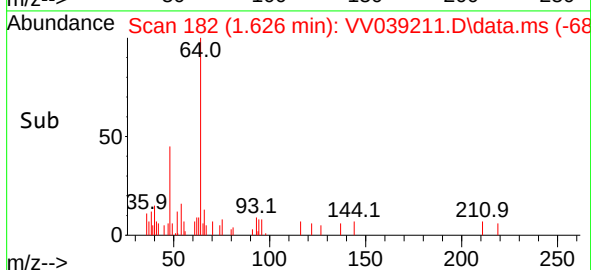
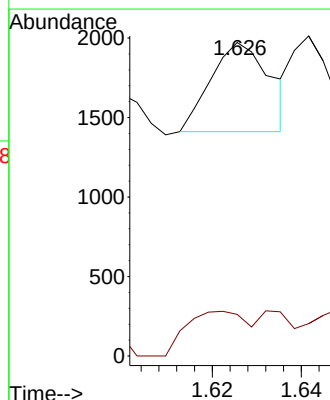
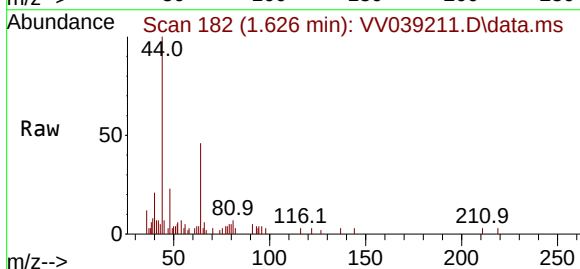
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

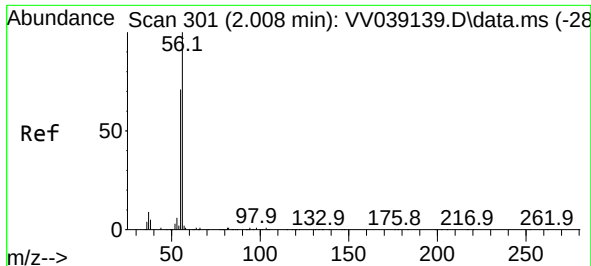
Tgt Ion:168 Resp: 513487  
Ion Ratio Lower Upper  
168 100  
99 63.1 49.6 74.4



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.626 min Scan# 182  
Delta R.T. 0.068 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

Tgt Ion: 64 Resp: 514  
Ion Ratio Lower Upper  
64 100  
66 18.5 24.6 36.8#

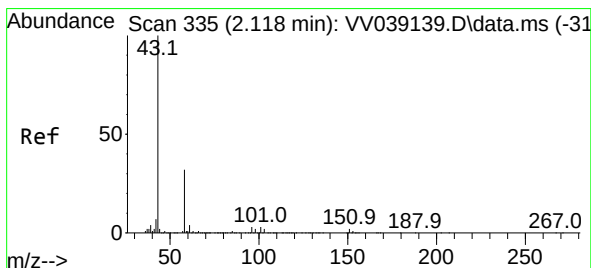
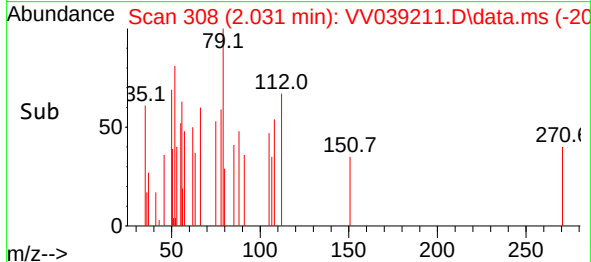
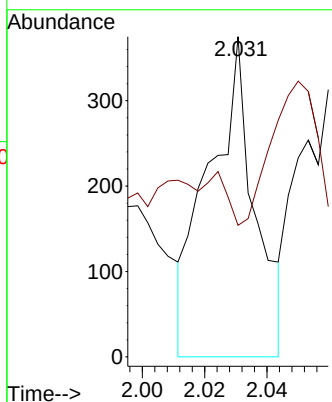
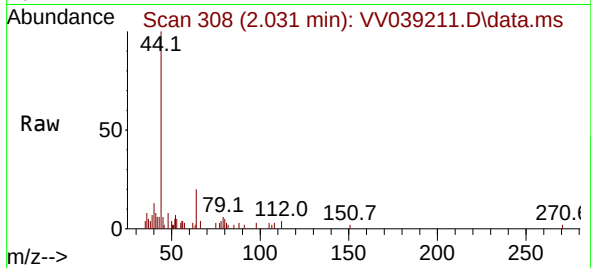




#13  
Acrolein  
Concen: 1.405 ug/l  
RT: 2.031 min Scan# 301  
Delta R.T. 0.022 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

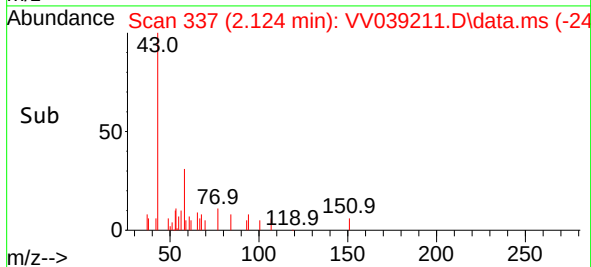
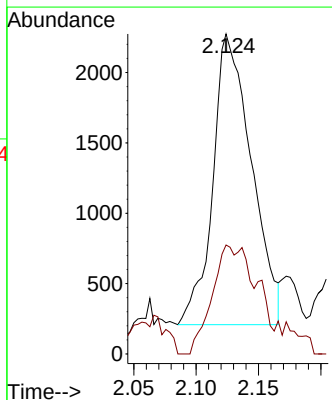
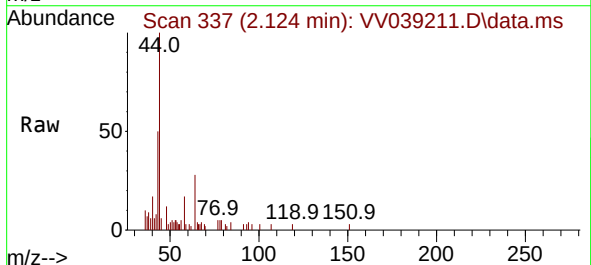
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

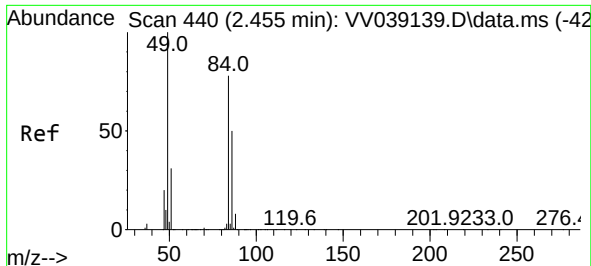
Tgt Ion: 56 Resp: 383  
Ion Ratio Lower Upper  
56 100  
55 84.1 56.2 84.4



#16  
Acetone  
Concen: Below Cal  
RT: 2.124 min Scan# 337  
Delta R.T. 0.006 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

Tgt Ion: 43 Resp: 4461  
Ion Ratio Lower Upper  
43 100  
58 37.5 25.8 38.6

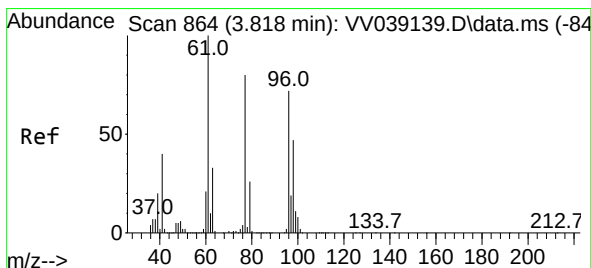
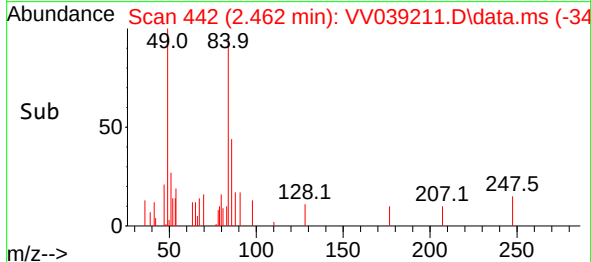
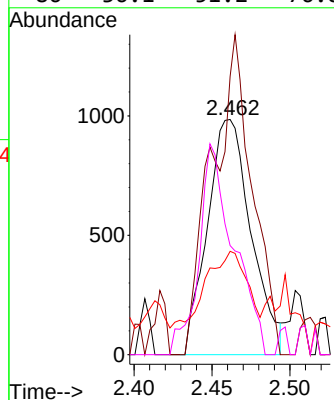
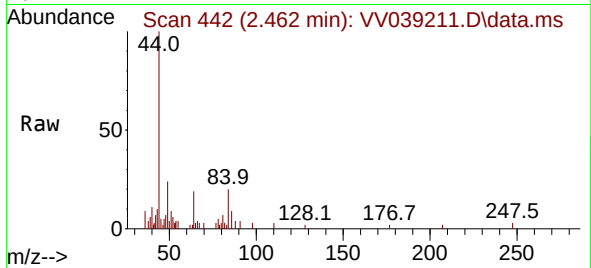




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.462 min Scan# 440  
Delta R.T. 0.007 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

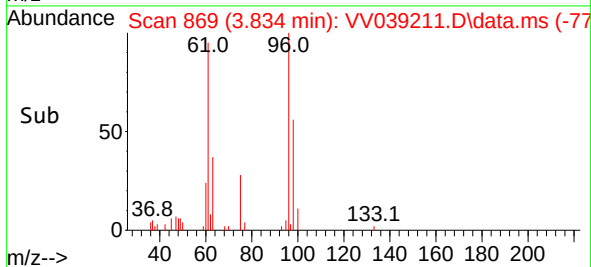
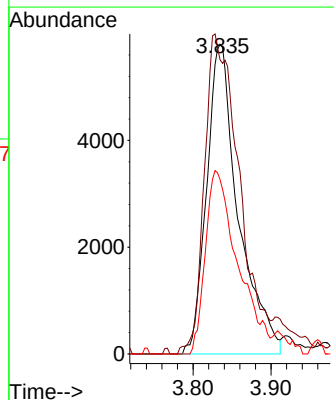
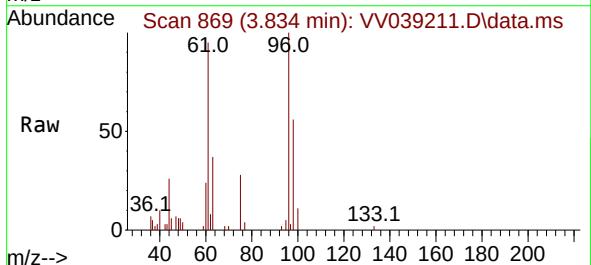
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

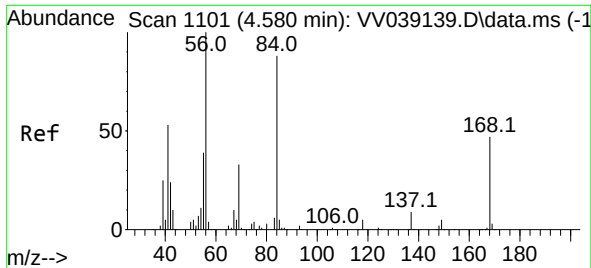
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1921  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 118.3 | 102.8 | 154.2 |
| 51       | 29.3  | 31.9  | 47.9# |
| 86       | 36.1  | 51.2  | 76.8# |



#27  
cis-1,2-Dichloroethene  
Concen: 1.806 ug/l  
RT: 3.834 min Scan# 869  
Delta R.T. 0.016 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 16420 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 112.9 | 0.0   | 286.4 |
| 98       | 60.5  | 0.0   | 126.6 |

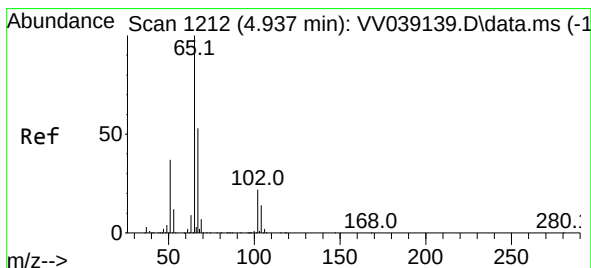
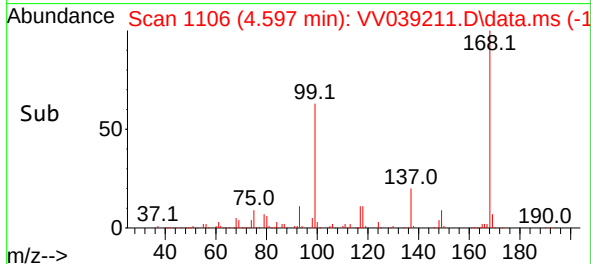
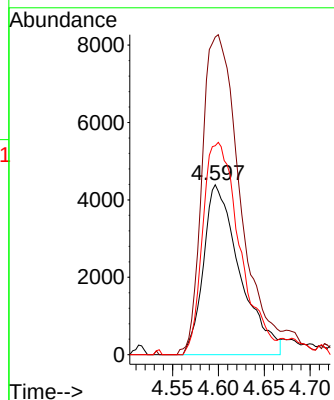
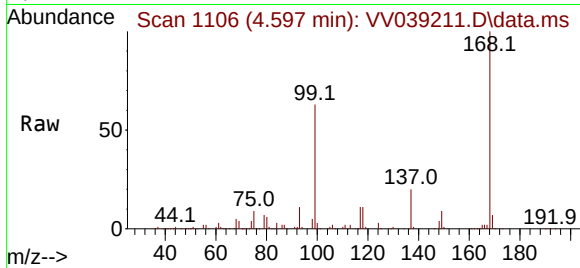




#31  
Cyclohexane  
Concen: 0.914 ug/l  
RT: 4.597 min Scan# 1106  
Delta R.T. 0.016 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

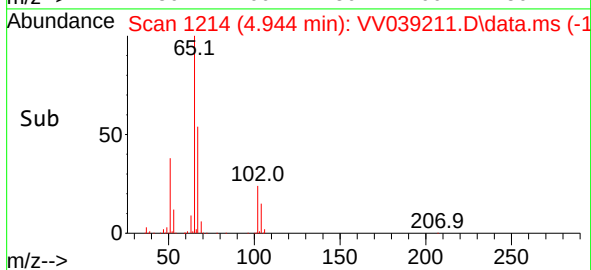
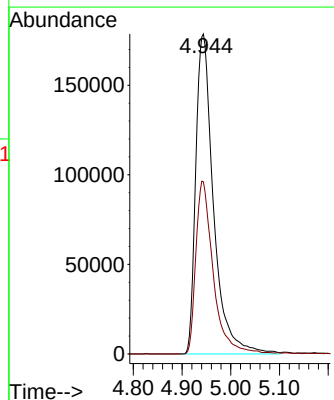
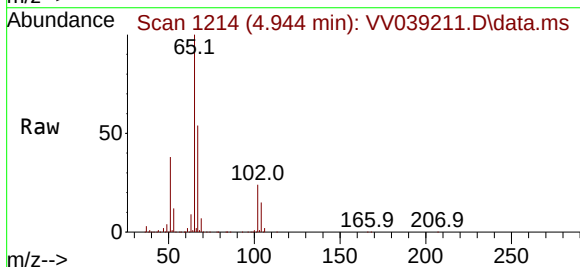
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

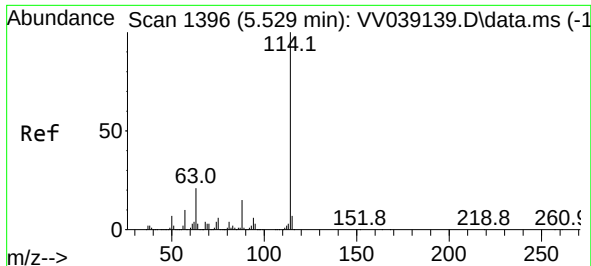
Tgt Ion: 56 Resp: 12110  
Ion Ratio Lower Upper  
56 100  
69 184.0 26.2 39.2#  
84 123.0 70.3 105.5#



#33  
1,2-Dichloroethane-d4  
Concen: 60.849 ug/l  
RT: 4.944 min Scan# 1214  
Delta R.T. 0.006 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

Tgt Ion: 65 Resp: 452207  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039211.D

Acq: 26 Sep 2025 14:36

Instrument :

MSVOA\_V

ClientSampleId :

MW-21M-091925

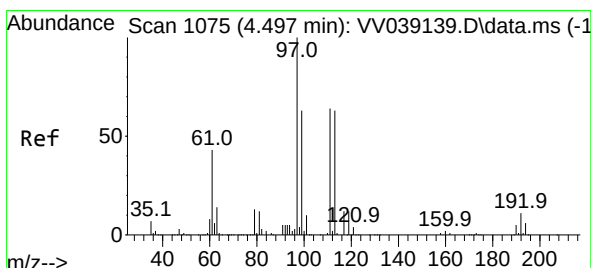
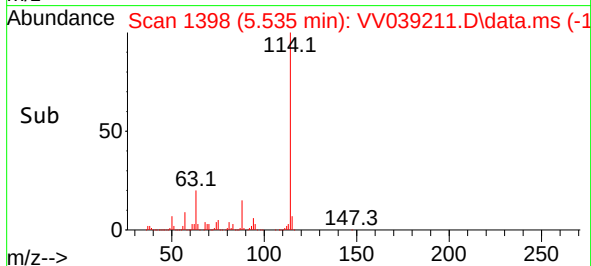
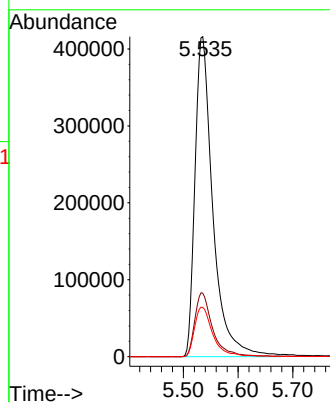
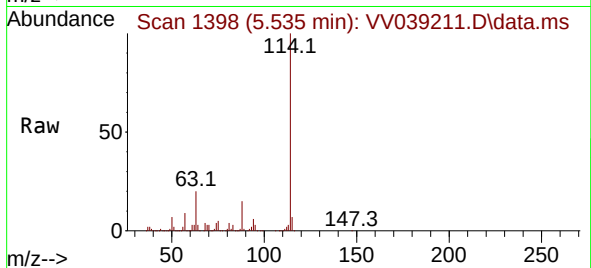
Tgt Ion:114 Resp: 944501

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

88 15.4 0.0 30.8



#35

Dibromofluoromethane

Concen: 55.108 ug/l

RT: 4.500 min Scan# 1076

Delta R.T. 0.003 min

Lab File: VV039211.D

Acq: 26 Sep 2025 14:36

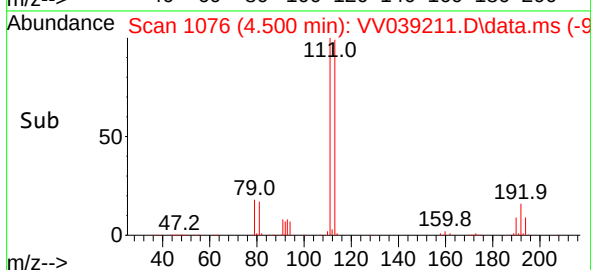
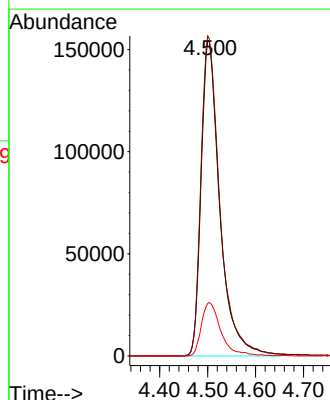
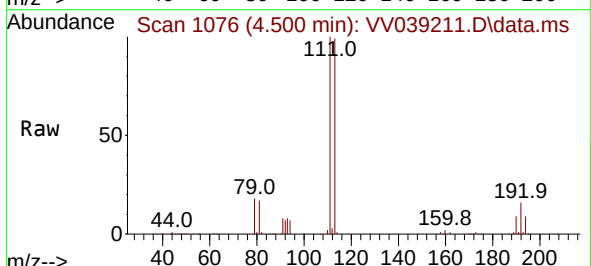
Tgt Ion:113 Resp: 418436

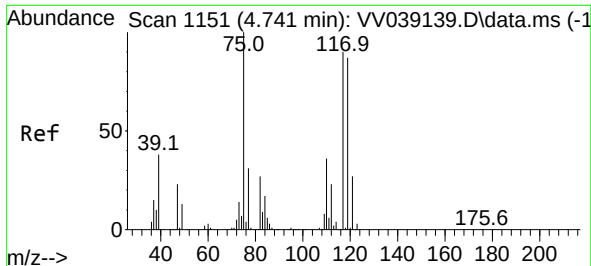
Ion Ratio Lower Upper

113 100

111 103.0 82.4 123.6

192 17.6 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.896 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VV039211.D

Acq: 26 Sep 2025 14:36

Instrument :

MSVOA\_V

ClientSampleId :

MW-21M-091925

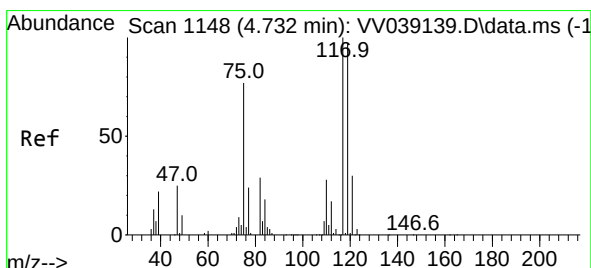
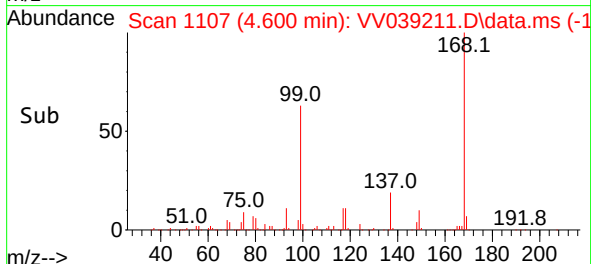
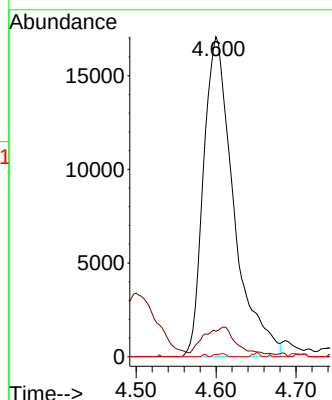
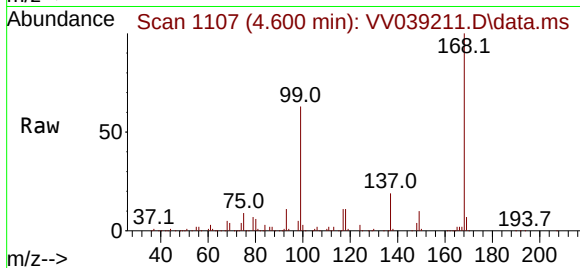
Tgt Ion: 75 Resp: 44731

Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.1#

77 0.3 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.015 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.132 min

Lab File: VV039211.D

Acq: 26 Sep 2025 14:36

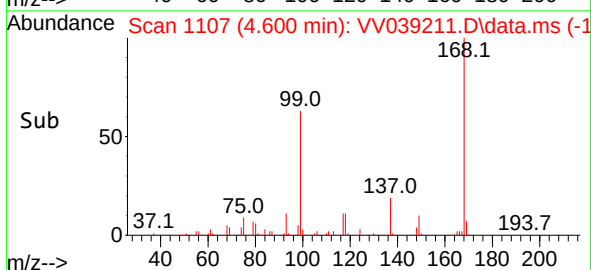
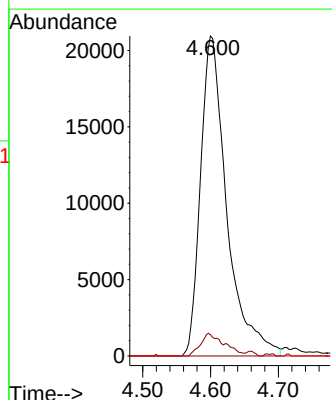
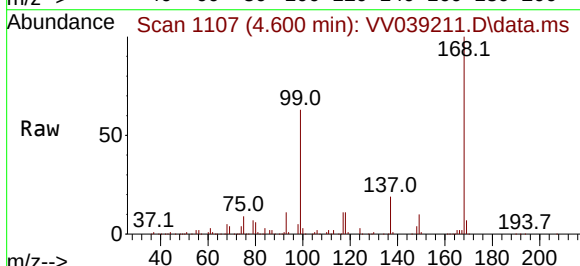
Tgt Ion: 117 Resp: 56338

Ion Ratio Lower Upper

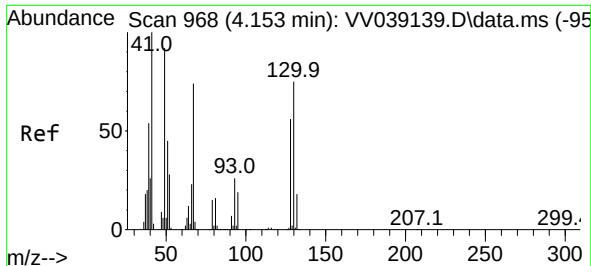
117 100

119 6.6 77.2 115.8#

121 0.0 24.2 36.2#



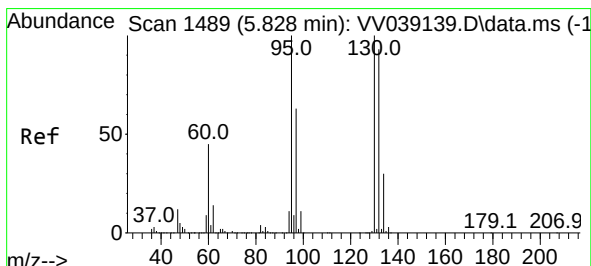
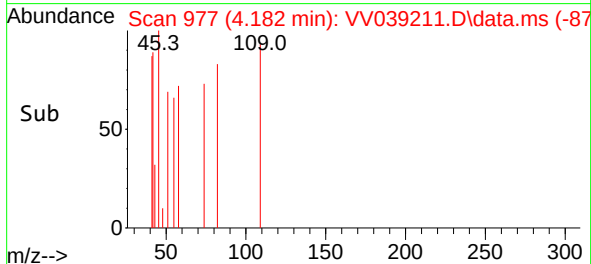
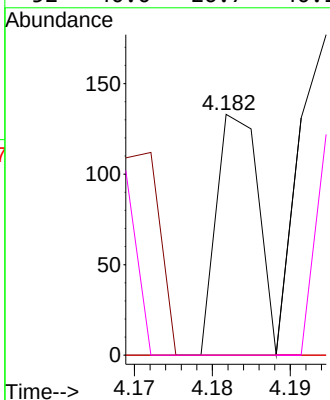
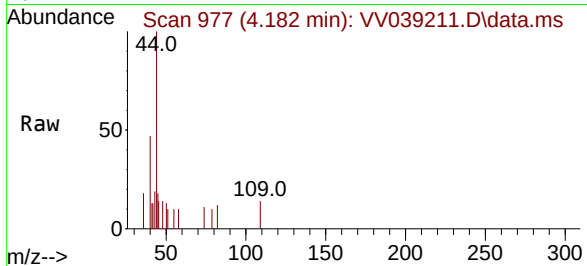




#41  
Methacrylonitrile  
Concen: 1.918 ug/l  
RT: 4.182 min Scan# 91  
Delta R.T. 0.029 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

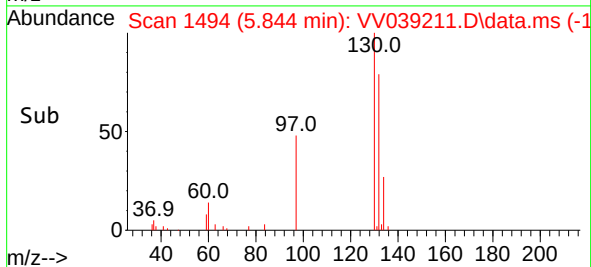
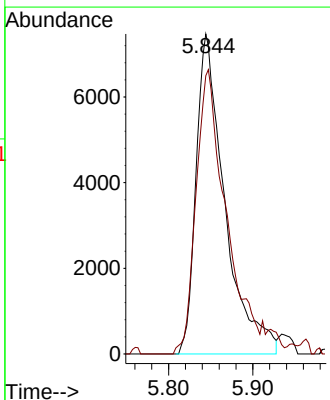
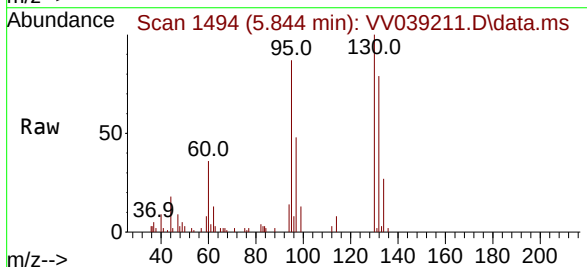
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

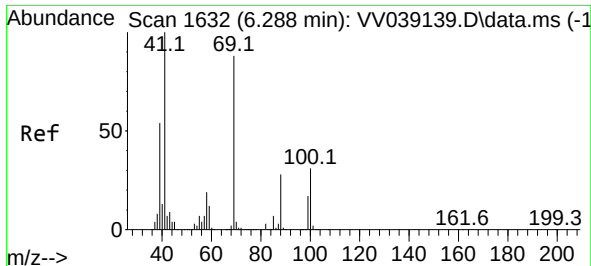
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 50    |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 86.0     | 42.2 63.2#  |
| 67 0.0      | 67.9 101.9# |
| 52 40.0     | 26.7 40.1   |



#44  
Trichloroethene  
Concen: 2.051 ug/l  
RT: 5.844 min Scan# 1494  
Delta R.T. 0.016 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

|              |             |
|--------------|-------------|
| Tgt Ion: 130 | Resp: 17696 |
| Ion Ratio    | Lower Upper |
| 130 100      |             |
| 95 85.0      | 0.0 199.2   |





#49

1,4-Dioxane

Concen: 0.381 ug/l

RT: 6.307 min Scan# 1

Delta R.T. 0.019 min

Lab File: VV039211.D

Acq: 26 Sep 2025 14:36

Instrument :

MSVOA\_V

ClientSampleId :

MW-21M-091925

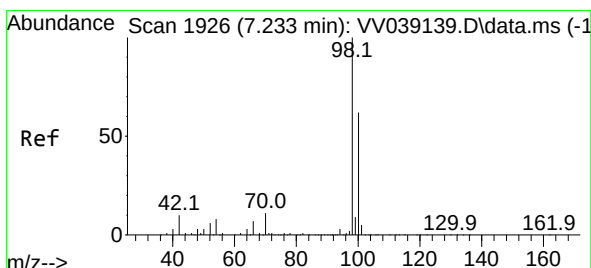
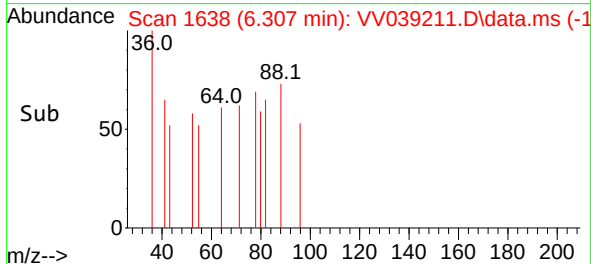
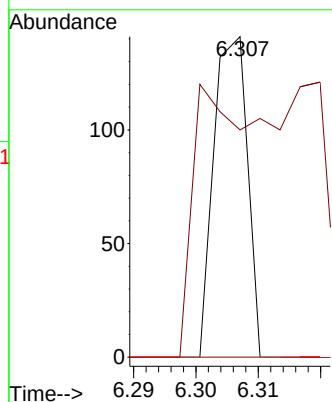
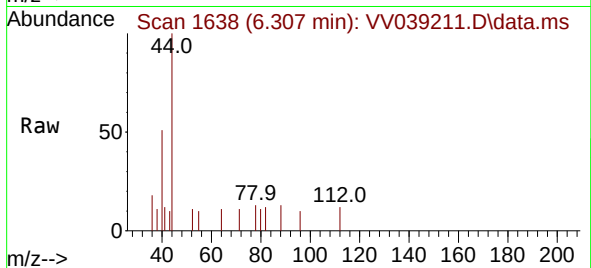
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 118.9 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 47.339 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039211.D

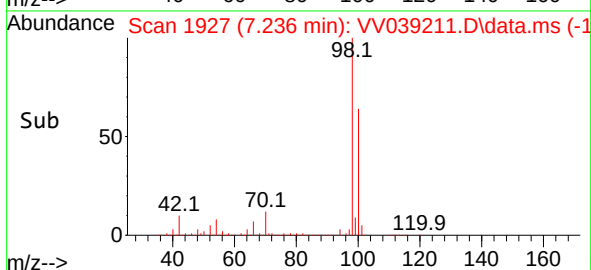
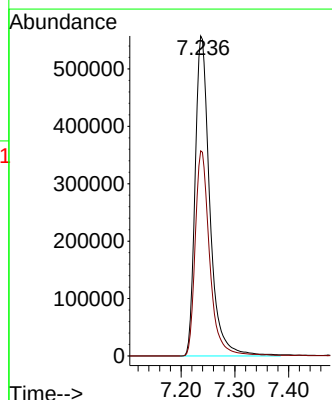
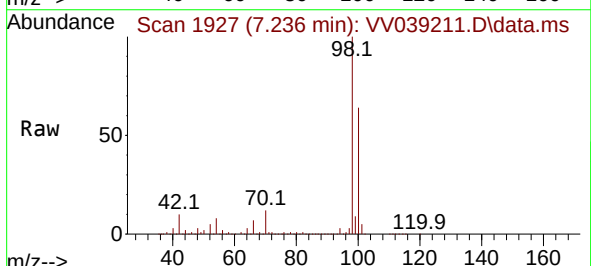
Acq: 26 Sep 2025 14:36

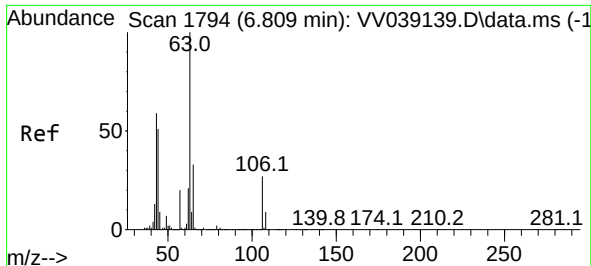
Tgt Ion: 98 Resp: 1055705

Ion Ratio Lower Upper

98 100

100 63.0 52.2 78.2

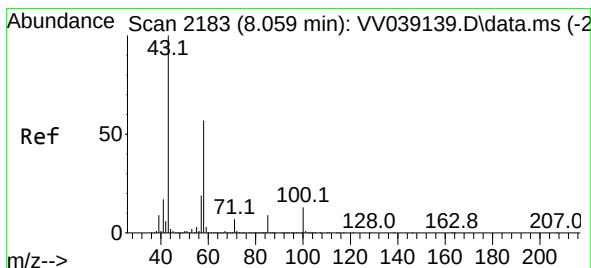
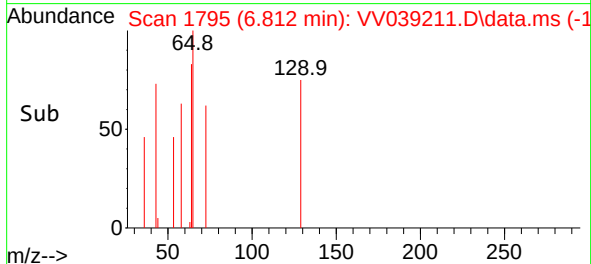
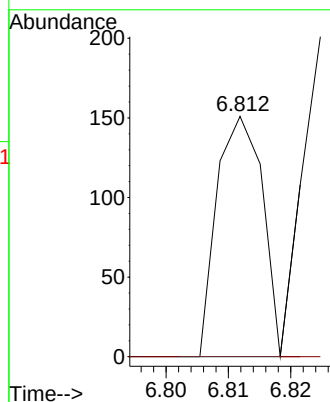
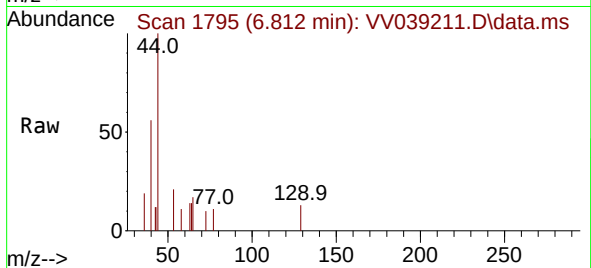




#58  
2-Chloroethyl Vinyl ether  
Concen: 9.634 ug/l  
RT: 6.812 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

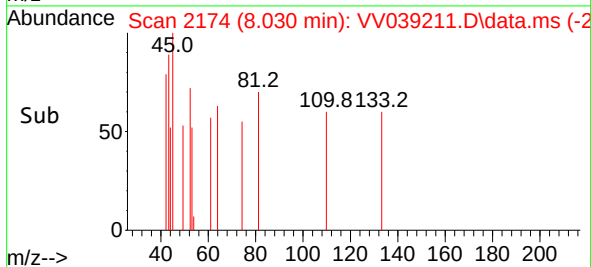
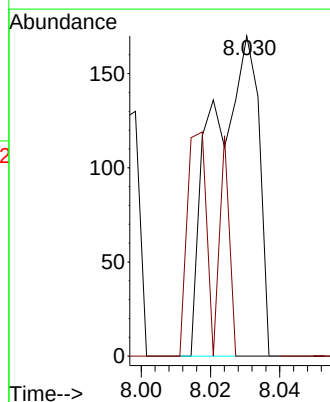
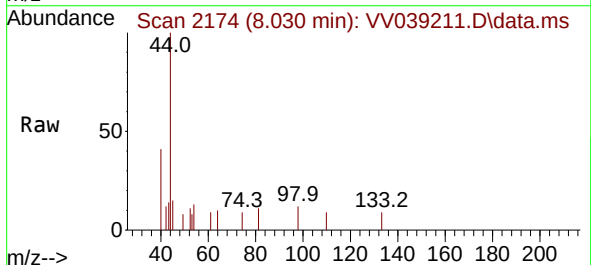
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

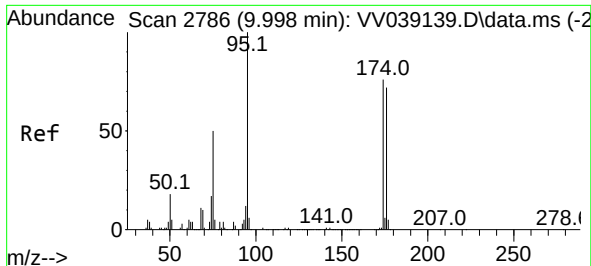
Tgt Ion: 63 Resp: 76  
Ion Ratio Lower Upper  
63 100  
106 0.0 22.1 33.1#



#59  
2-Hexanone  
Concen: 2.341 ug/l  
RT: 8.030 min Scan# 2174  
Delta R.T. -0.029 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

Tgt Ion: 43 Resp: 156  
Ion Ratio Lower Upper  
43 100  
58 43.6 28.3 85.0

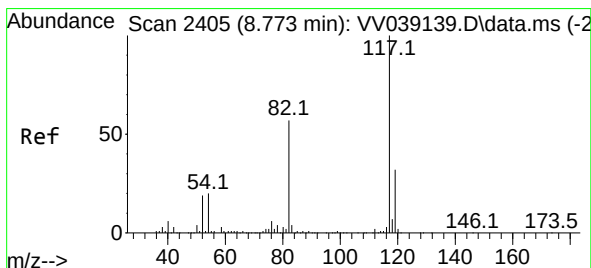
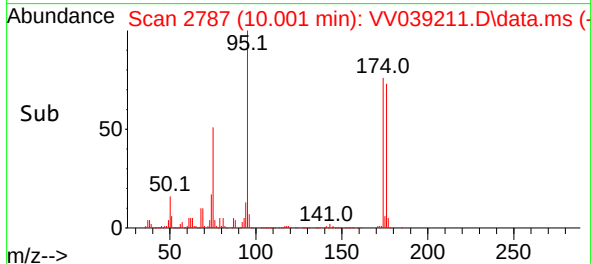
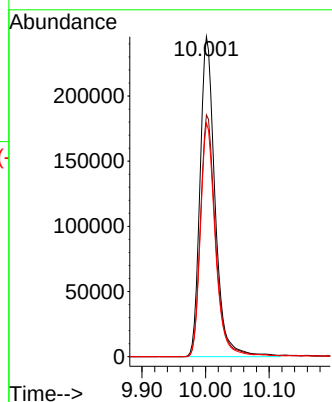
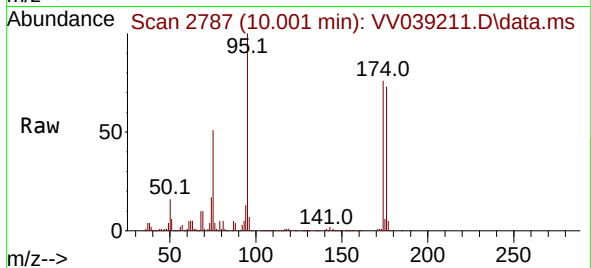




#62  
4-Bromofluorobenzene  
Concen: 43.840 ug/l  
RT: 10.001 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

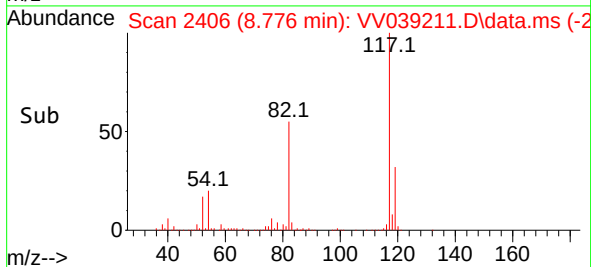
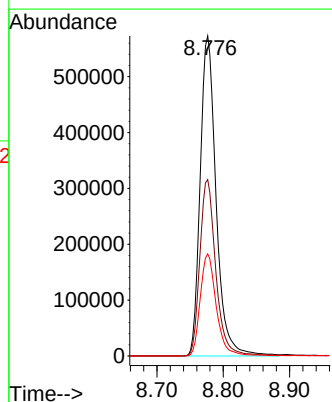
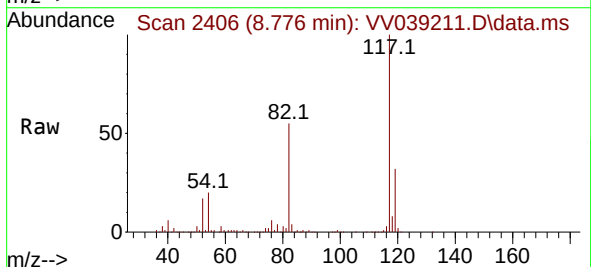
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

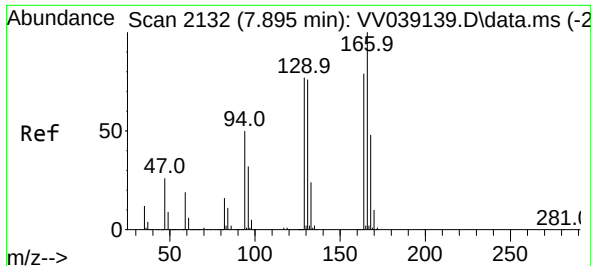
Tgt Ion: 95 Resp: 402477  
Ion Ratio Lower Upper  
95 100  
174 76.5 0.0 150.4  
176 72.7 0.0 144.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 8.776 min Scan# 2406  
Delta R.T. 0.003 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

Tgt Ion: 117 Resp: 957014  
Ion Ratio Lower Upper  
117 100  
82 55.1 45.4 68.2  
119 31.9 25.6 38.4

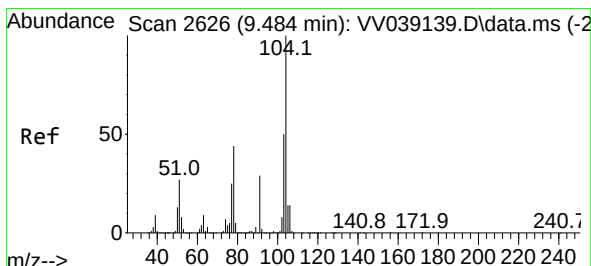
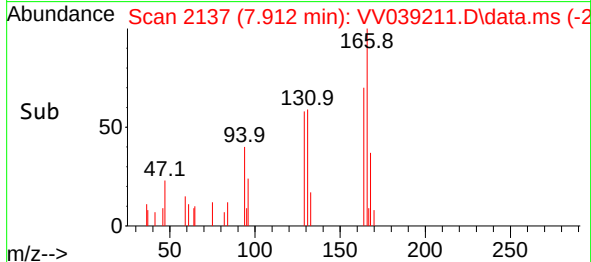
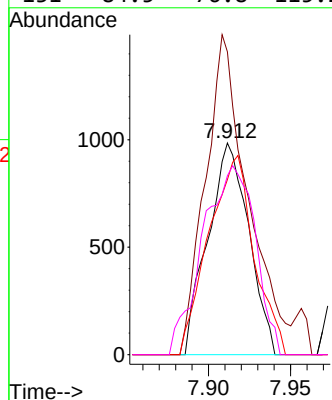
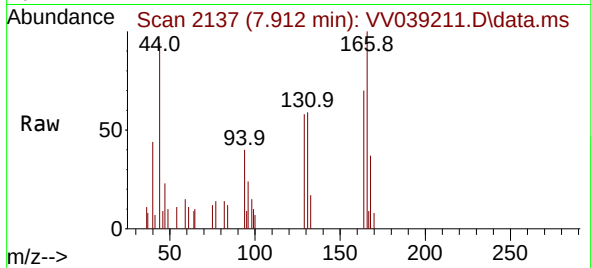




#64  
Tetrachloroethene  
Concen: 0.212 ug/l  
RT: 7.912 min Scan# 2132  
Delta R.T. 0.016 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

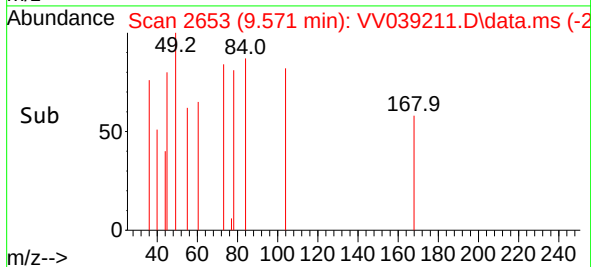
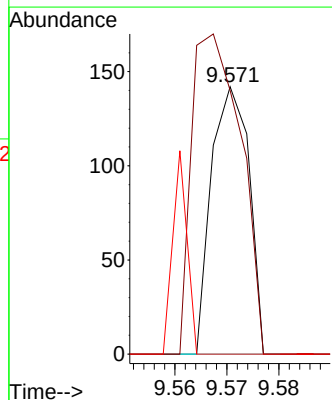
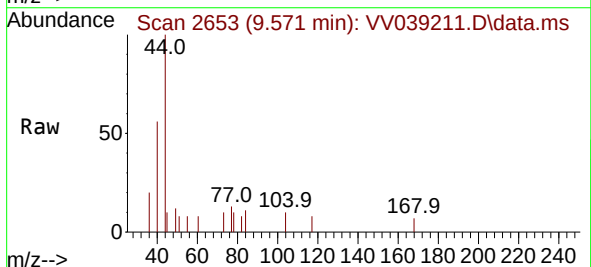
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

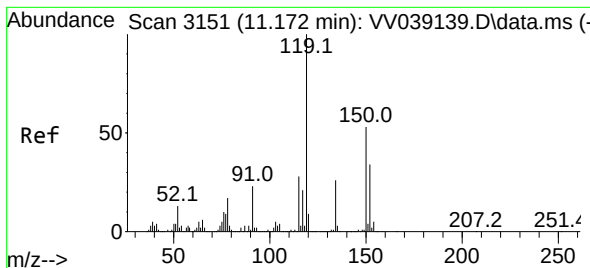
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:164 | Resp: | 1701        |
| Ion         | Ratio | Lower Upper |
| 164         | 100   |             |
| 166         | 143.0 | 101.6 152.4 |
| 129         | 82.6  | 78.5 117.7  |
| 131         | 84.5  | 76.8 115.2  |



#70  
Styrene  
Concen: 1.564 ug/l  
RT: 9.571 min Scan# 2653  
Delta R.T. 0.087 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:104 | Resp: | 71          |
| Ion         | Ratio | Lower Upper |
| 104         | 100   |             |
| 78          | 157.7 | 39.8 59.6#  |
| 103         | 29.6  | 43.4 65.2#  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039211.D

Acq: 26 Sep 2025 14:36

Instrument :

MSVOA\_V

ClientSampleId :

MW-21M-091925

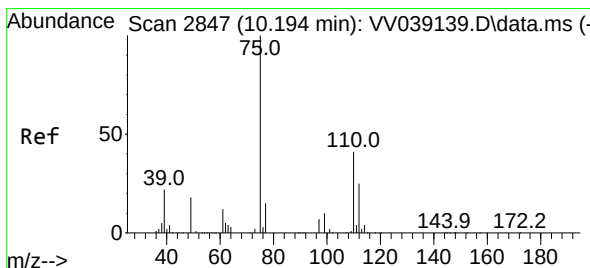
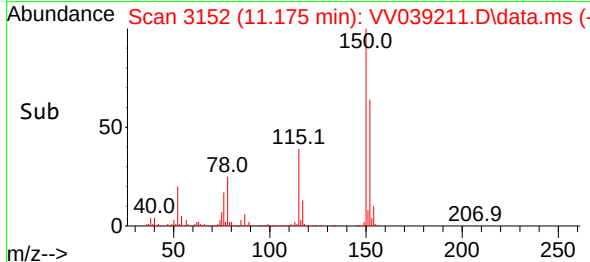
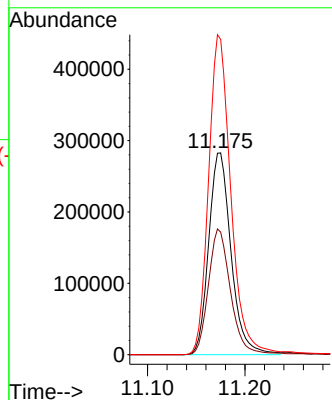
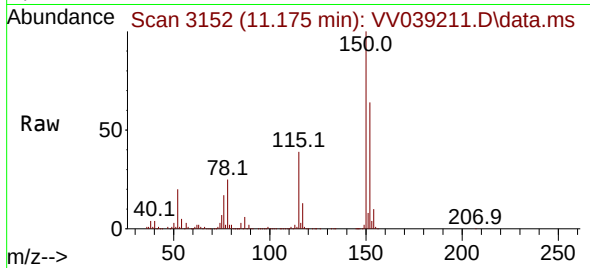
Tgt Ion:152 Resp: 451121

Ion Ratio Lower Upper

152 100

115 62.2 44.8 134.4

150 158.8 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 19.727 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039211.D

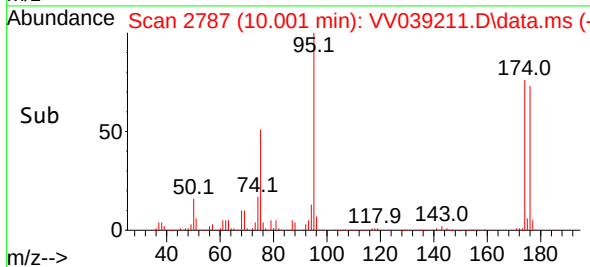
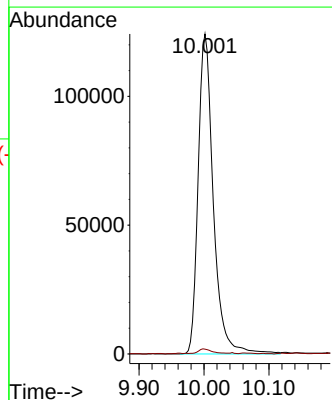
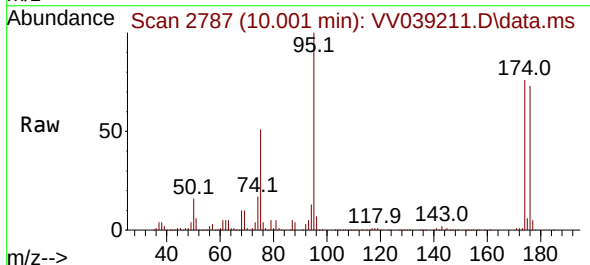
Acq: 26 Sep 2025 14:36

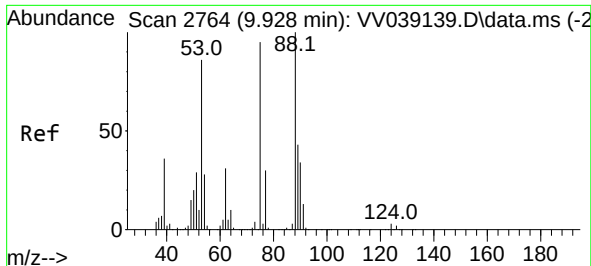
Tgt Ion: 75 Resp: 202619

Ion Ratio Lower Upper

75 100

77 1.4 11.3 33.8#

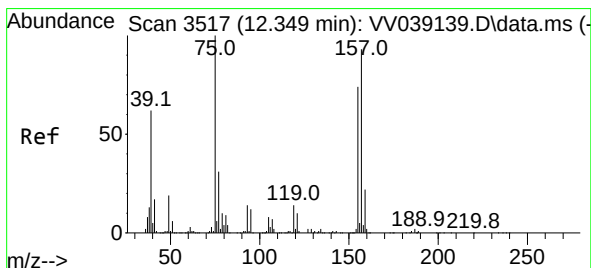
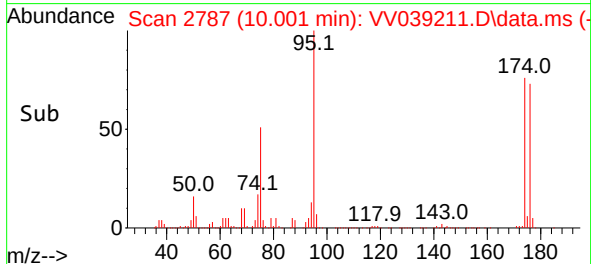
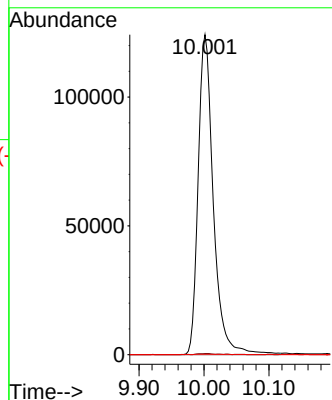
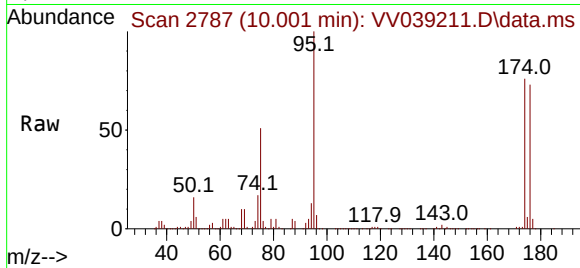




#81  
trans-1,4-Dichloro-2-butene  
Concen: 47.358 ug/l  
RT: 10.001 min Scan# 21  
Delta R.T. 0.074 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-21M-091925

Tgt Ion: 75 Resp: 202619  
Ion Ratio Lower Upper  
75 100  
53 0.4 72.5 108.7#  
89 0.0 37.2 55.8#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: Below Cal  
RT: 12.323 min Scan# 3509  
Delta R.T. -0.026 min  
Lab File: VV039211.D  
Acq: 26 Sep 2025 14:36

Tgt Ion: 75 Resp: 40  
Ion Ratio Lower Upper  
75 100  
155 0.0 38.6 115.8#  
157 0.0 49.5 148.3#

