

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV092625\  
 Data File : VV039208.D  
 Acq On : 26 Sep 2025 13:28  
 Operator : SY/MD  
 Sample : Q3195-05  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MW-6-091625

Quant Time: Sep 27 02:55:21 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

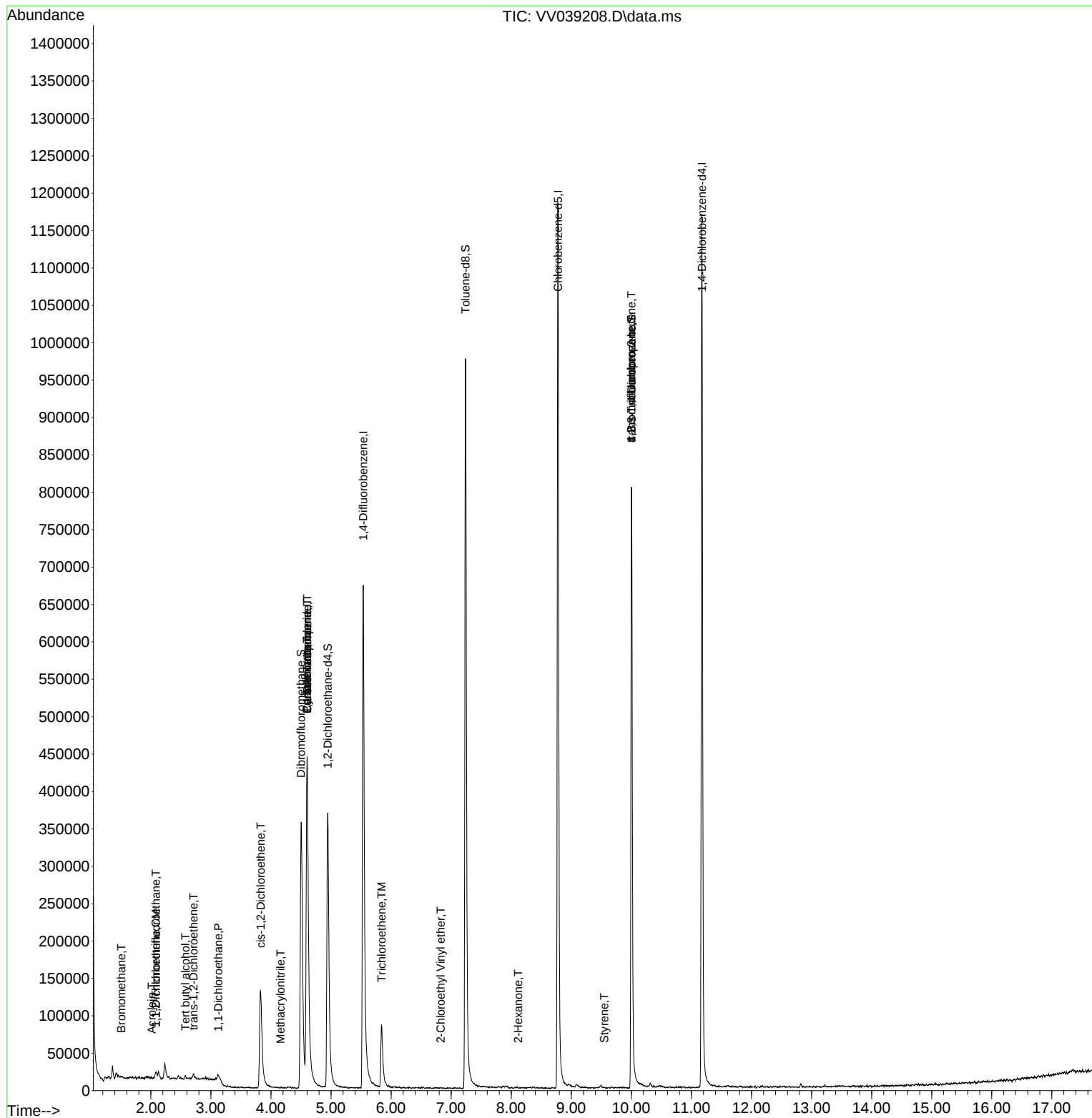
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 4.600  | 168   | 374514   | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 5.535  | 114   | 660135   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 8.776  | 117   | 675751   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.175 | 152   | 313063   | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 4.944  | 65    | 328194   | 60.549    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 81 - 118 | Recovery  | = 121.100%# |          |
| 35) Dibromofluoromethane      | 4.503  | 113   | 300201   | 56.567    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 119 | Recovery  | = 113.140%  |          |
| 50) Toluene-d8                | 7.239  | 98    | 722235   | 46.337    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 89 - 112 | Recovery  | = 92.680%   |          |
| 62) 4-Bromofluorobenzene      | 10.001 | 95    | 278949   | 43.473    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 85 - 114 | Recovery  | = 86.940%   |          |
| Target Compounds              |        |       |          |           |             |          |
|                               |        |       |          |           | Qvalue      |          |
| 5) Bromomethane               | 1.506  | 94    | 887      | 0.207     | ug/l        | 81       |
| 6) Chloroethane               | 1.551  | 64    | 423      | Below Cal | #           | 70       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.082  | 101   | 2535     | 0.432     | ug/l        | 95       |
| 11) Tert butyl alcohol        | 2.574  | 59    | 784      | 0.684     | ug/l #      | 90       |
| 12) 1,1-Dichloroethene        | 2.082  | 96    | 1546     | 0.274     | ug/l #      | 64       |
| 13) Acrolein                  | 2.018  | 56    | 162      | 0.815     | ug/l #      | 75       |
| 16) Acetone                   | 2.127  | 43    | 9872     | Below Cal |             | 98       |
| 20) Methylene Chloride        | 2.455  | 84    | 2165     | Below Cal | #           | 75       |
| 21) trans-1,2-Dichloroethene  | 2.712  | 96    | 1743     | 0.290     | ug/l #      | 82       |
| 24) 1,1-Dichloroethane        | 3.124  | 63    | 7253     | 0.615     | ug/l #      | 85       |
| 27) cis-1,2-Dichloroethene    | 3.828  | 96    | 79686    | 12.019    | ug/l        | 88       |
| 31) Cyclohexane               | 4.600  | 56    | 7703     | 0.797     | ug/l #      | 1        |
| 36) 1,1-Dichloropropene       | 4.603  | 75    | 32461    | 4.046     | ug/l #      | 50       |
| 38) Carbon Tetrachloride      | 4.603  | 117   | 39797    | 4.058     | ug/l #      | 16       |
| 41) Methacrylonitrile         | 4.159  | 41    | 110      | 1.935     | ug/l #      | 1        |
| 44) Trichloroethene           | 5.844  | 130   | 36430    | 6.042     | ug/l        | 99       |
| 58) 2-Chloroethyl Vinyl ether | 6.825  | 63    | 503      | 9.729     | ug/l #      | 47       |
| 59) 2-Hexanone                | 8.117  | 43    | 41       | 2.331     | ug/l        | 89       |
| 70) Styrene                   | 9.548  | 104   | 52       | 1.564     | ug/l #      | 1        |
| 76) 1,2,3-Trichloropropane    | 10.001 | 75    | 141345   | 19.830    | ug/l #      | 57       |
| 81) trans-1,4-Dichloro-2-b... | 10.001 | 75    | 141345   | 47.605    | ug/l #      | 13       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.332 | 75    | 117      | Below Cal | #           | 5        |
| -----                         |        |       |          |           |             |          |

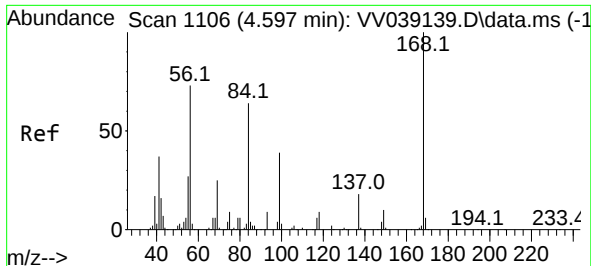
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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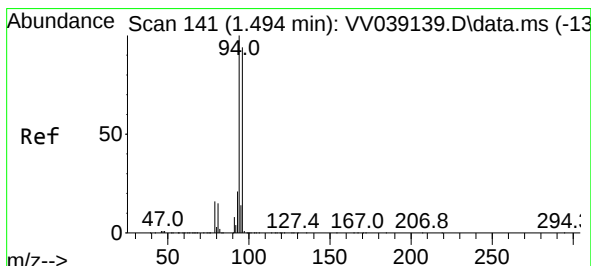
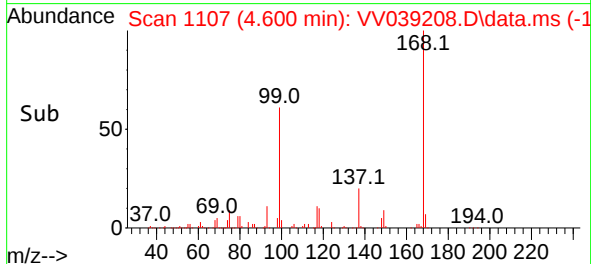
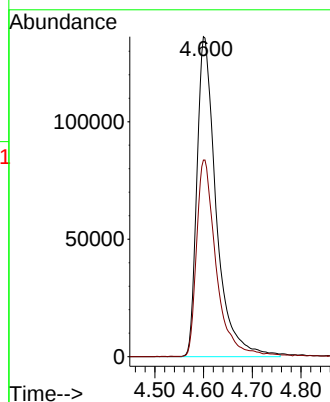
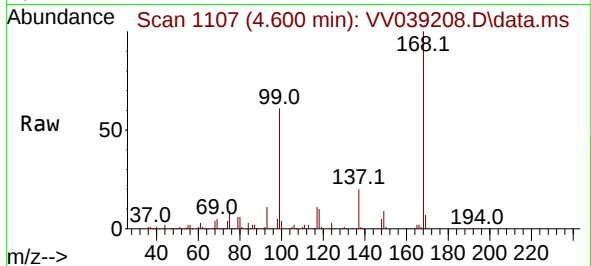




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.600 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

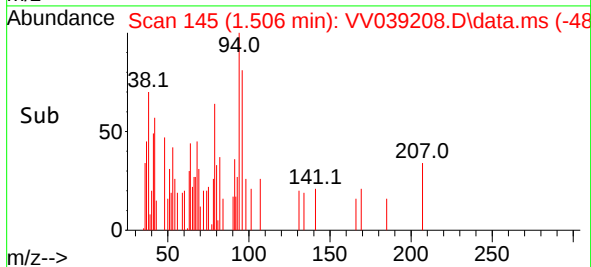
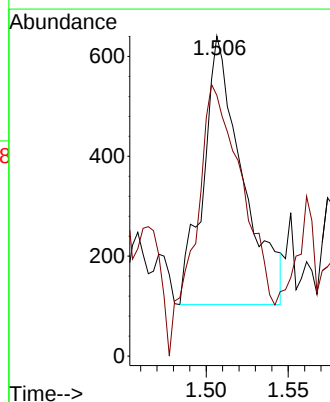
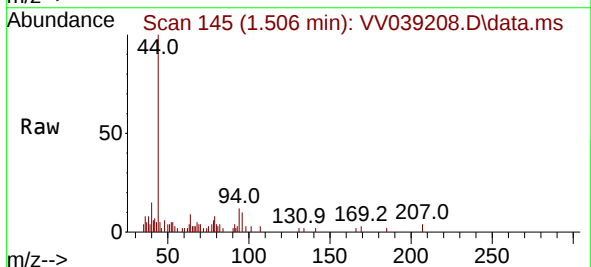
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-6-091625

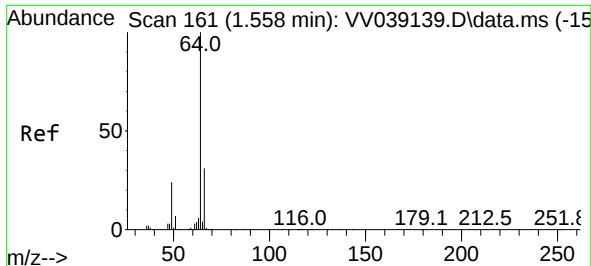
Tgt Ion:168 Resp: 374514  
Ion Ratio Lower Upper  
168 100  
99 61.3 49.6 74.4



#5  
Bromomethane  
Concen: 0.207 ug/l  
RT: 1.506 min Scan# 145  
Delta R.T. 0.012 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

Tgt Ion: 94 Resp: 887  
Ion Ratio Lower Upper  
94 100  
96 75.3 74.9 112.3

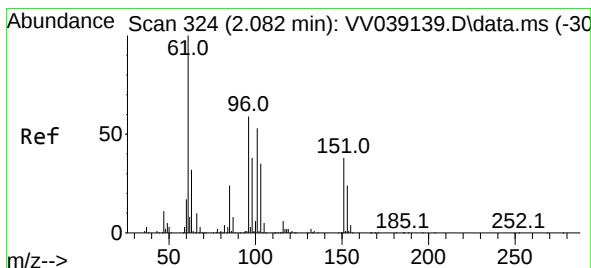
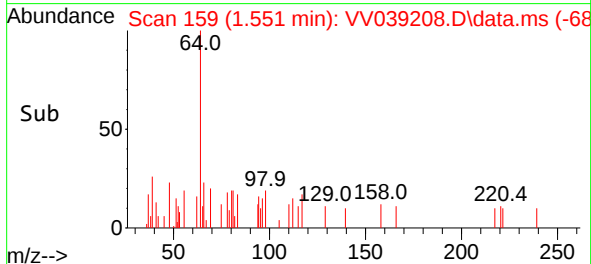
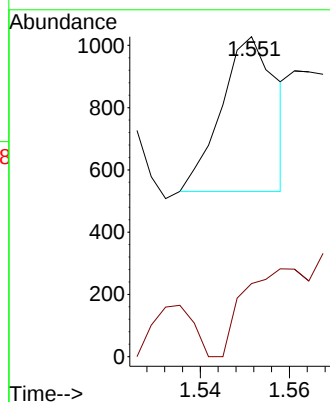
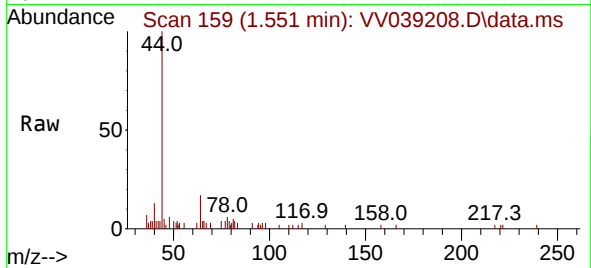




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.551 min Scan# 11  
Delta R.T. -0.007 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

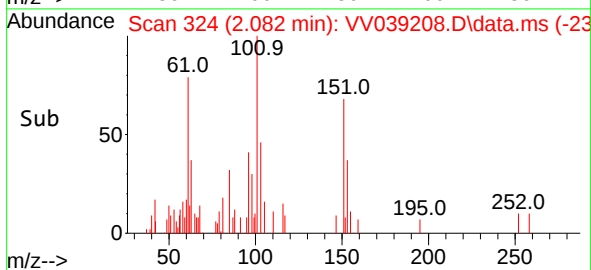
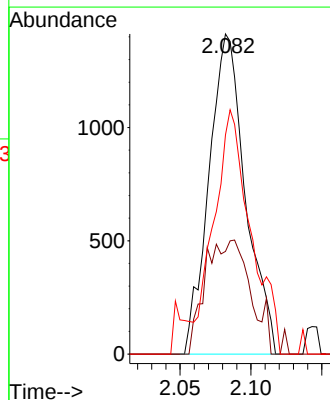
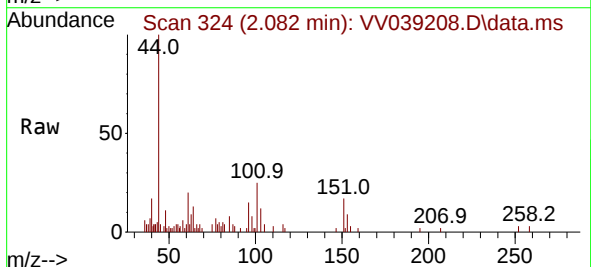
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-6-091625

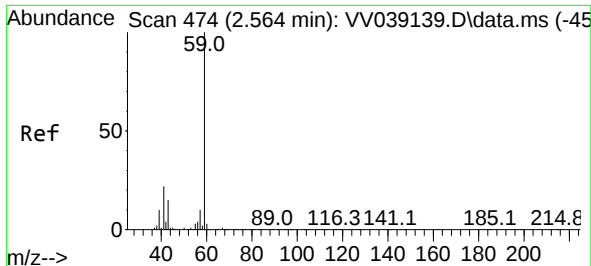
Tgt Ion: 64 Resp: 423  
Ion Ratio Lower Upper  
64 100  
66 14.1 24.6 36.8#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.432 ug/l  
RT: 2.082 min Scan# 324  
Delta R.T. -0.000 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

Tgt Ion:101 Resp: 2535  
Ion Ratio Lower Upper  
101 100  
85 44.0 36.2 54.2  
151 76.7 56.3 84.5





#11

Tert butyl alcohol

Concen: 0.684 ug/l

RT: 2.574 min Scan# 41

Delta R.T. 0.010 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

Instrument :

MSVOA\_V

ClientSampleId :

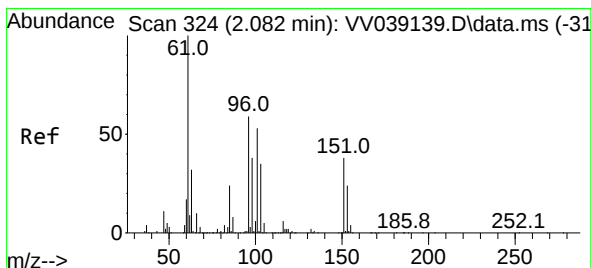
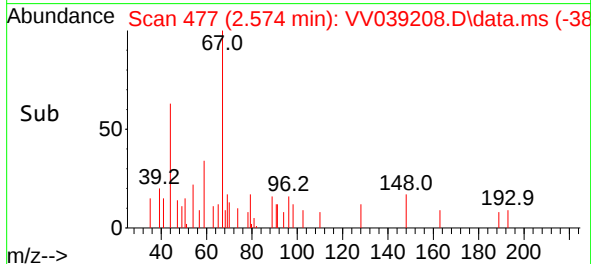
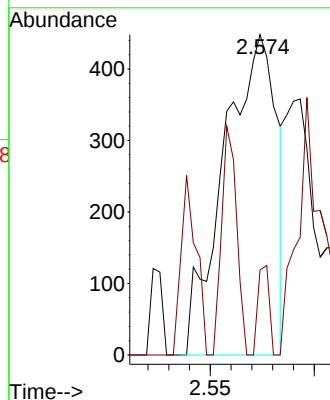
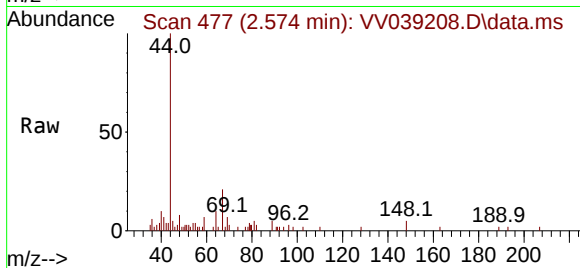
MW-6-091625

Tgt Ion: 59 Resp: 784

Ion Ratio Lower Upper

59 100

57 6.0 7.8 11.8#



#12

1,1-Dichloroethene

Concen: 0.274 ug/l

RT: 2.082 min Scan# 324

Delta R.T. -0.000 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

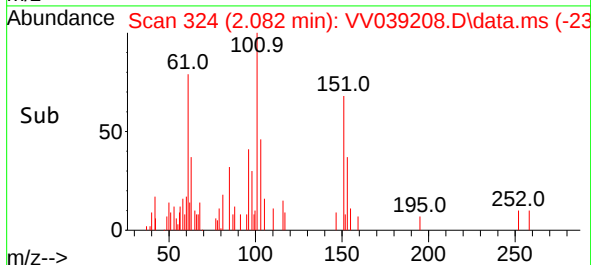
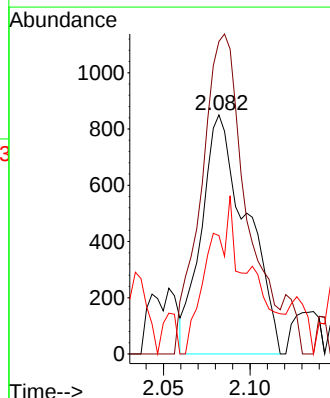
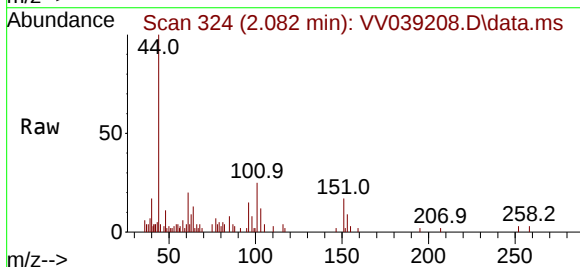
Tgt Ion: 96 Resp: 1546

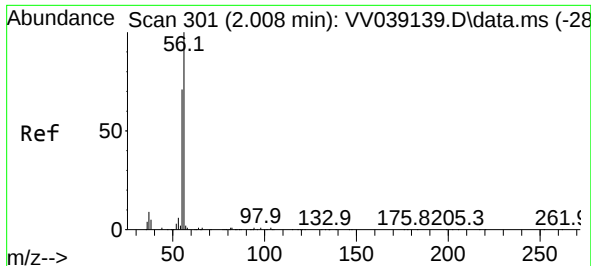
Ion Ratio Lower Upper

96 100

61 112.2 136.0 204.0#

98 49.5 51.0 76.6#





#13

Acrolein

Concen: 0.815 ug/l

RT: 2.018 min Scan# 301

Delta R.T. 0.010 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

Instrument :

MSVOA\_V

ClientSampleId :

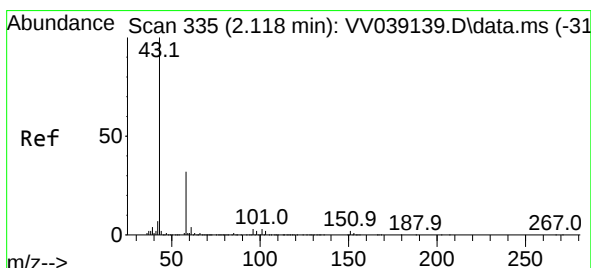
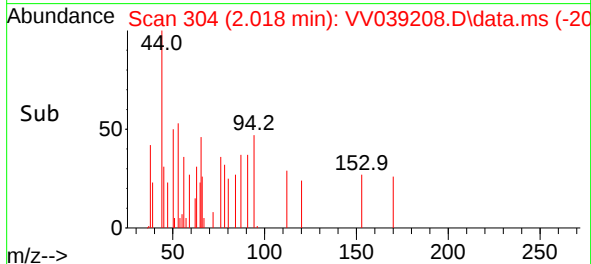
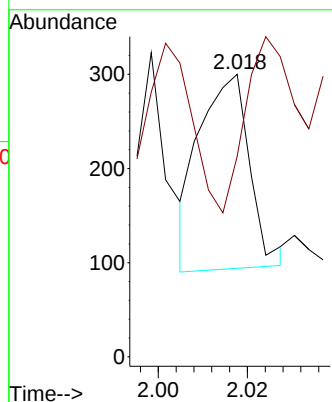
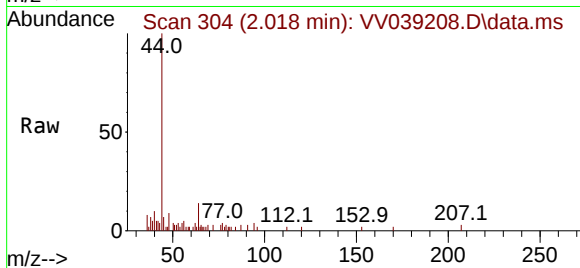
MW-6-091625

Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

56 100

55 90.7 56.2 84.4#



#16

Acetone

Concen: Below Cal

RT: 2.127 min Scan# 338

Delta R.T. 0.009 min

Lab File: VV039208.D

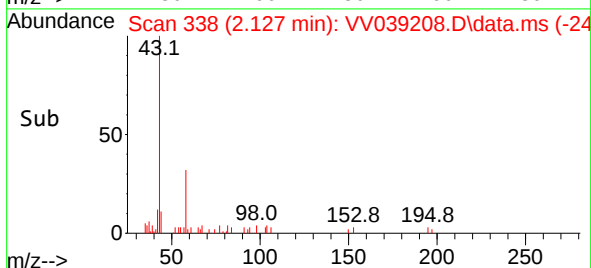
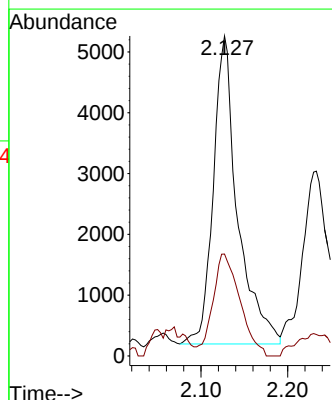
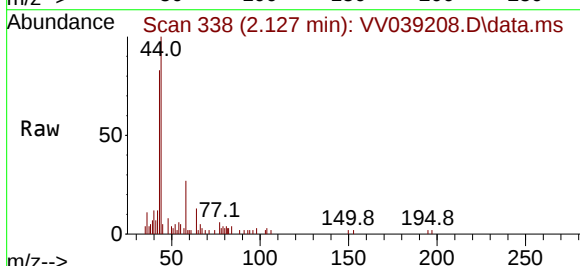
Acq: 26 Sep 2025 13:28

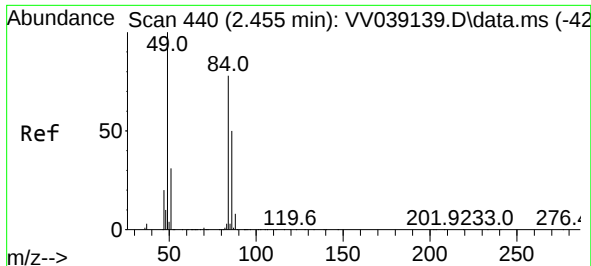
Tgt Ion: 43 Resp: 9872

Ion Ratio Lower Upper

43 100

58 33.1 25.8 38.6

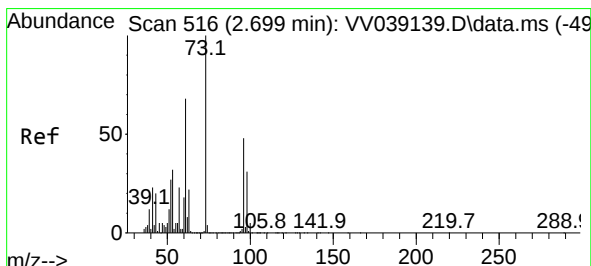
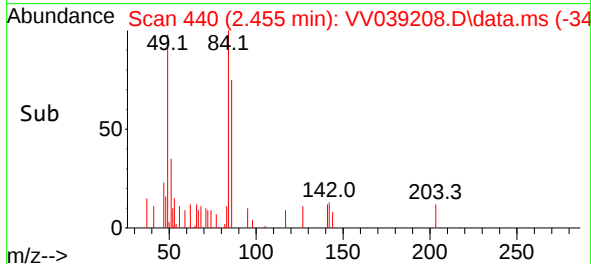
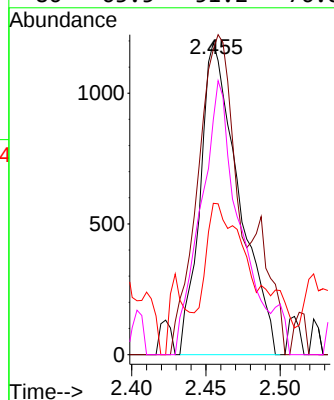
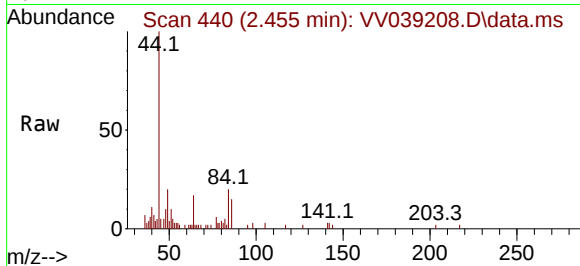




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.455 min Scan# 440  
Delta R.T. -0.000 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

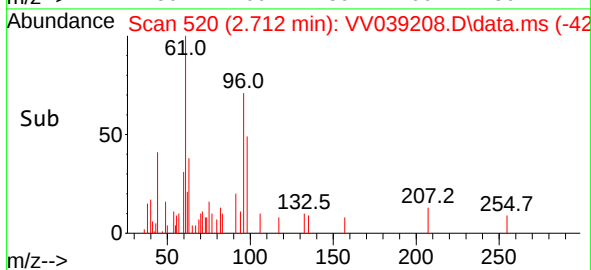
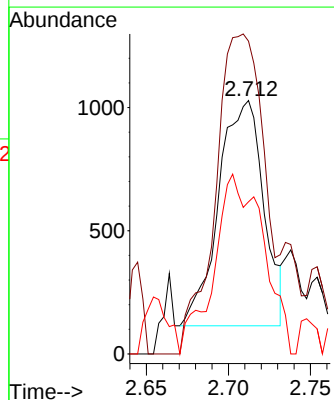
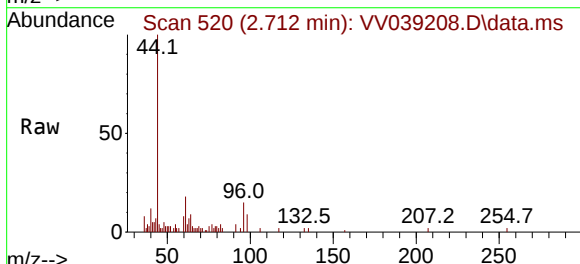
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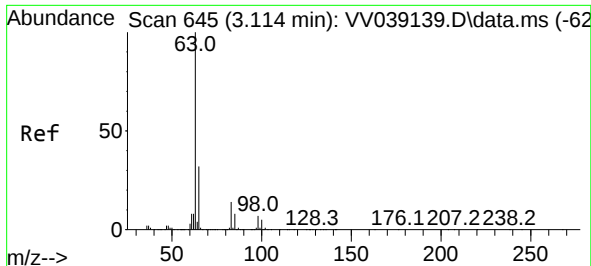
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|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2165   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 82.1  | 102.8 | 154.2# |
| 51       | 31.0  | 31.9  | 47.9#  |
| 86       | 63.5  | 51.2  | 76.8   |



#21  
trans-1,2-Dichloroethene  
Concen: 0.290 ug/l  
RT: 2.712 min Scan# 520  
Delta R.T. 0.013 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 1743  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 162.8 | 112.8 | 169.2 |
| 98       | 79.2  | 51.1  | 76.7# |

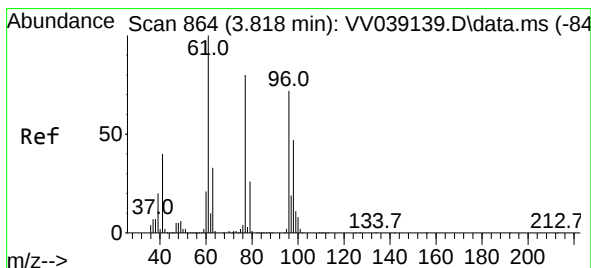
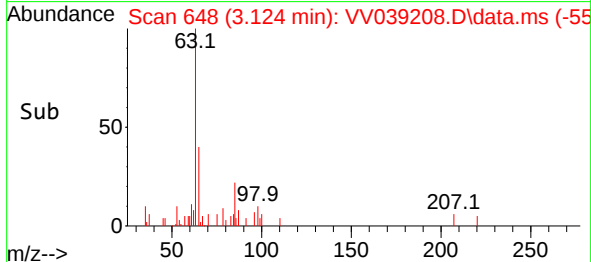
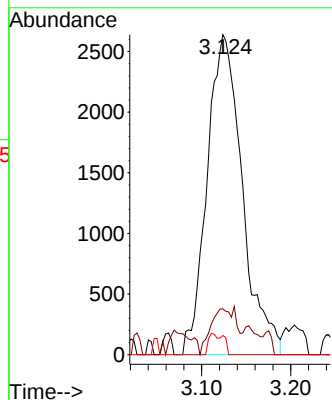
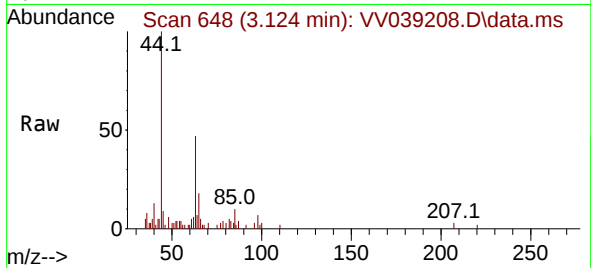




#24  
1,1-Dichloroethane  
Concen: 0.615 ug/l  
RT: 3.124 min Scan# 645  
Delta R.T. 0.010 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

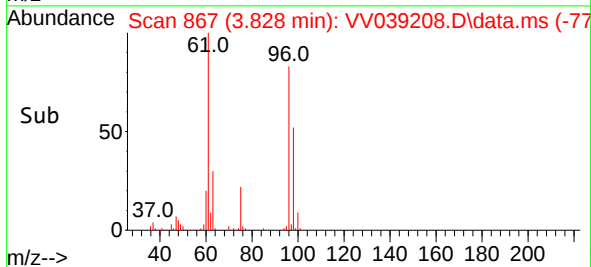
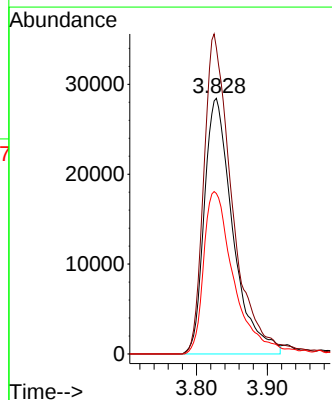
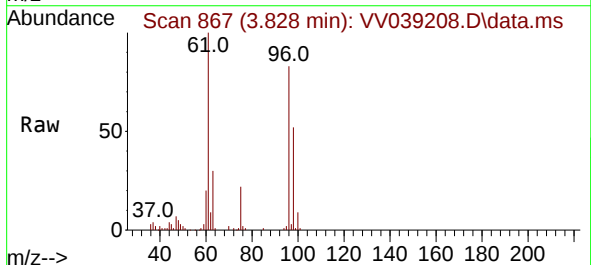
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-6-091625

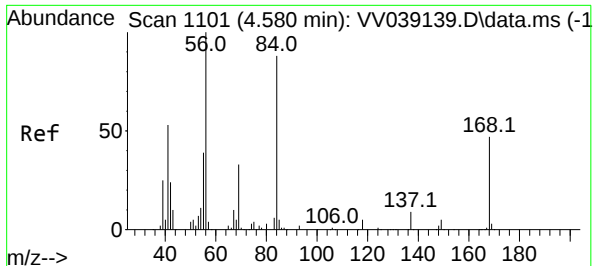
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Ion Ratio Lower Upper  
63 100  
98 14.3 3.4 10.2#  
100 6.0 2.2 6.6



#27  
cis-1,2-Dichloroethene  
Concen: 12.019 ug/l  
RT: 3.828 min Scan# 867  
Delta R.T. 0.010 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

Tgt Ion: 96 Resp: 79686  
Ion Ratio Lower Upper  
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61 124.9 0.0 286.4  
98 67.1 0.0 126.6

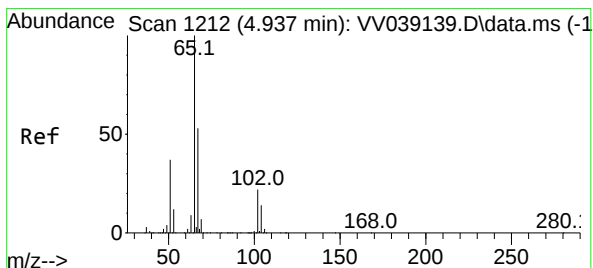
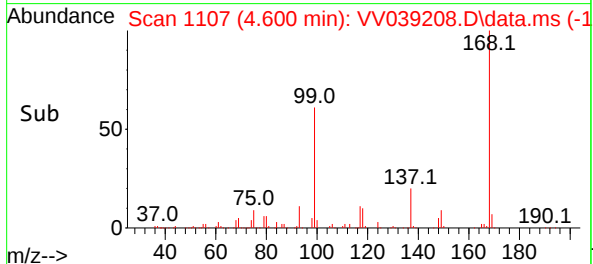
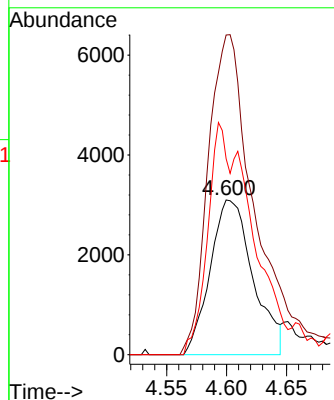
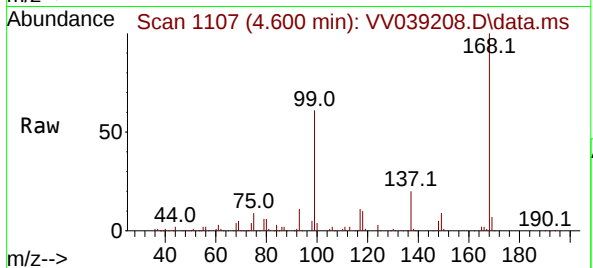




#31  
Cyclohexane  
Concen: 0.797 ug/l  
RT: 4.600 min Scan# 1101  
Delta R.T. 0.019 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

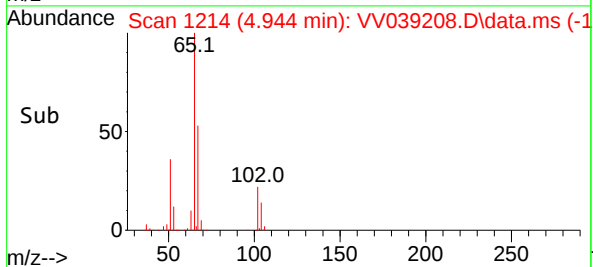
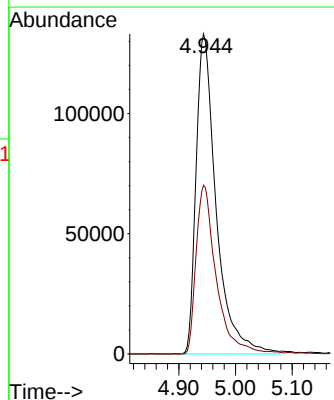
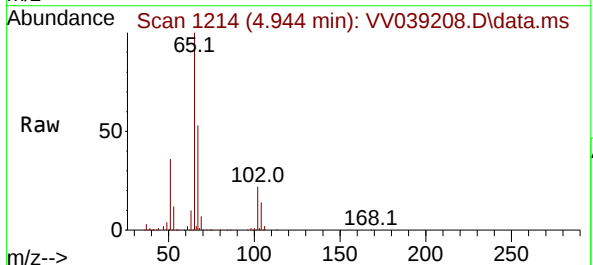
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-6-091625

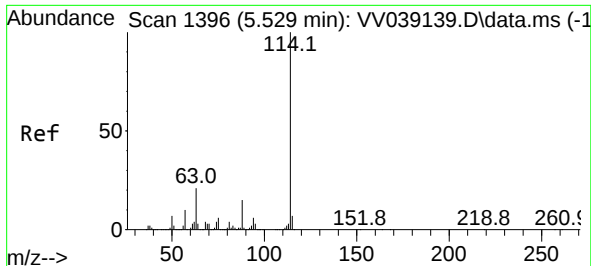
Tgt Ion: 56 Resp: 7703  
Ion Ratio Lower Upper  
56 100  
69 206.7 26.2 39.2#  
84 126.8 70.3 105.5#



#33  
1,2-Dichloroethane-d4  
Concen: 60.549 ug/l  
RT: 4.944 min Scan# 1214  
Delta R.T. 0.006 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

Tgt Ion: 65 Resp: 328194  
Ion Ratio Lower Upper  
65 100  
67 52.5 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: VV039208.D

Acq: 26 Sep 2025 13:28

Instrument :

MSVOA\_V

ClientSampleId :

MW-6-091625

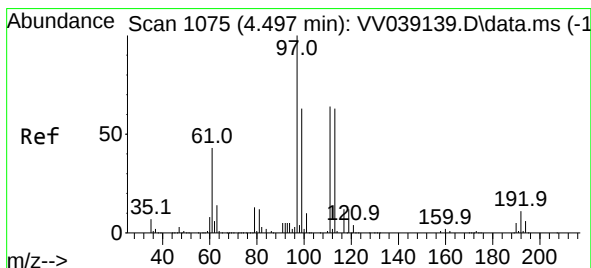
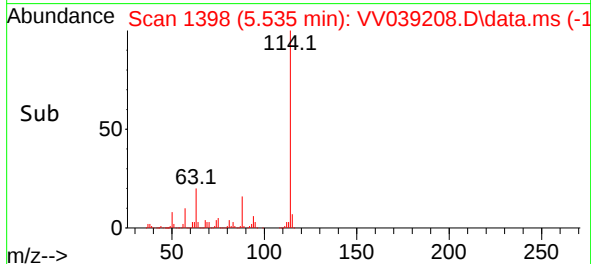
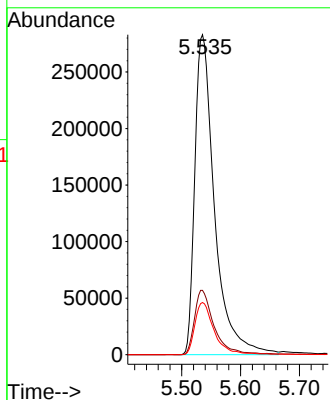
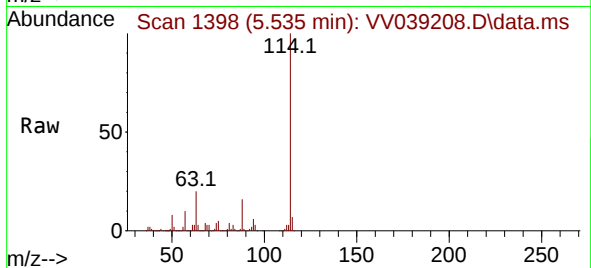
Tgt Ion:114 Resp: 660135

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 16.3 0.0 30.8



#35

Dibromofluoromethane

Concen: 56.567 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

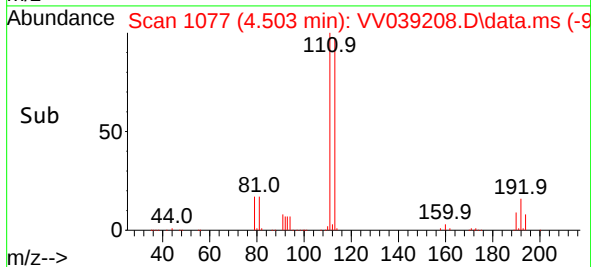
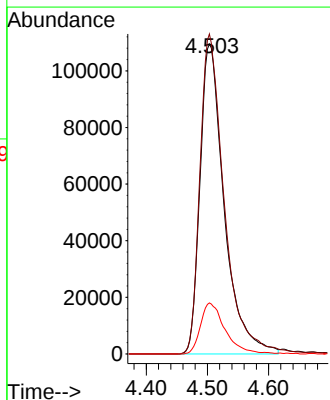
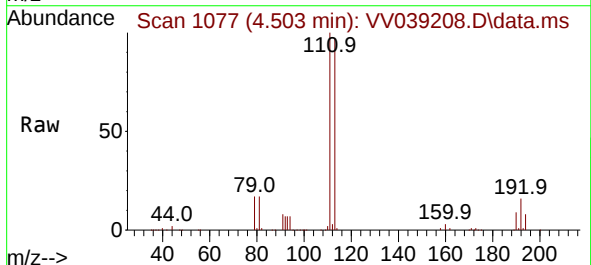
Tgt Ion:113 Resp: 300201

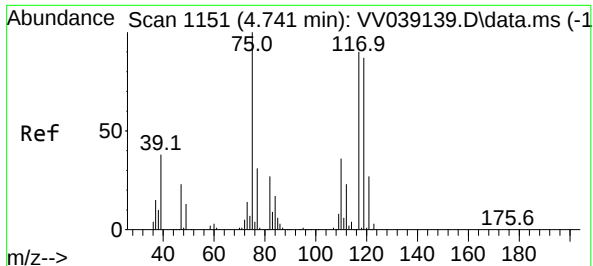
Ion Ratio Lower Upper

113 100

111 103.9 82.4 123.6

192 16.8 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.046 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.138 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

Instrument :

MSVOA\_V

ClientSampleId :

MW-6-091625

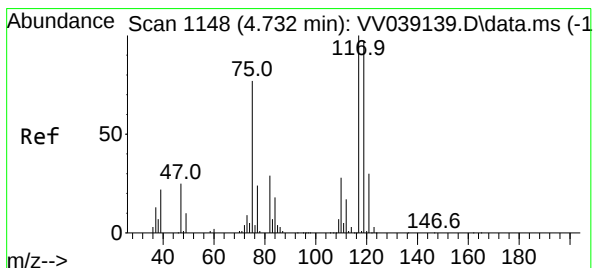
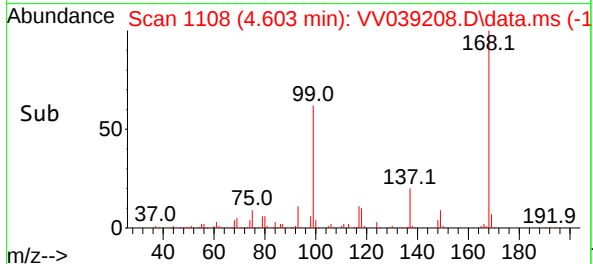
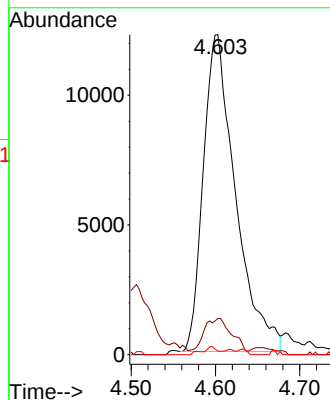
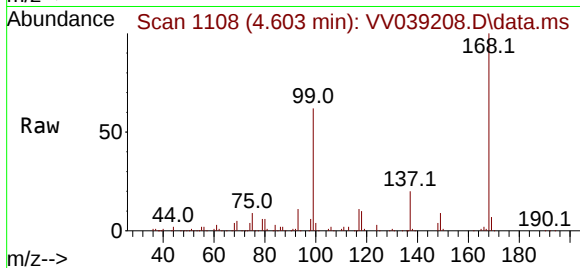
Tgt Ion: 75 Resp: 32461

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.1#

77 0.8 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.058 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.129 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

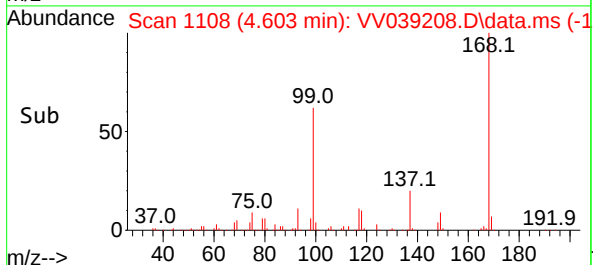
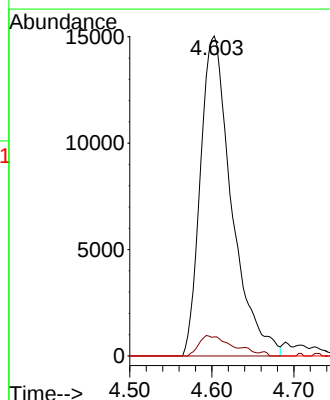
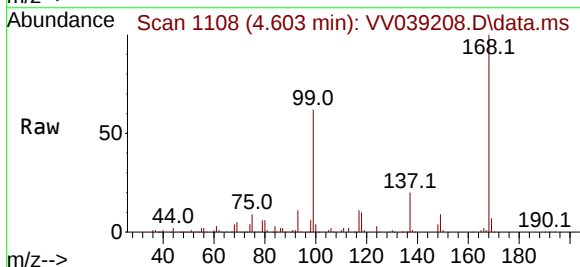
Tgt Ion: 117 Resp: 39797

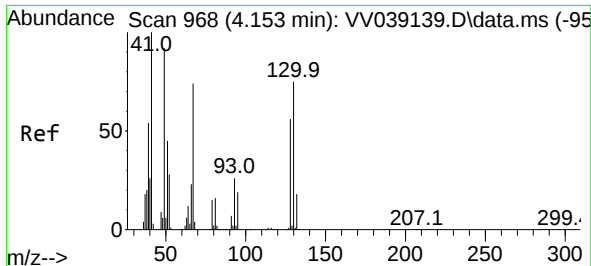
Ion Ratio Lower Upper

117 100

119 6.0 77.2 115.8#

121 0.0 24.2 36.2#

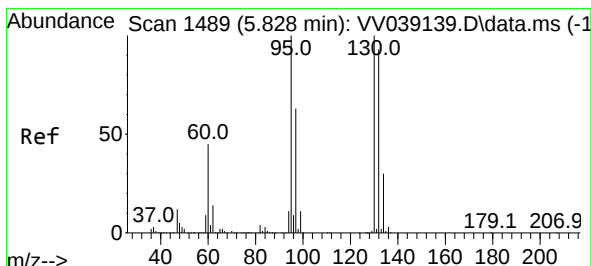
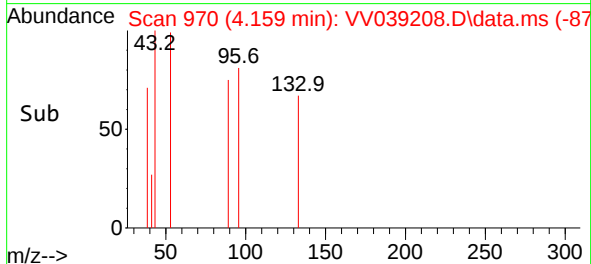
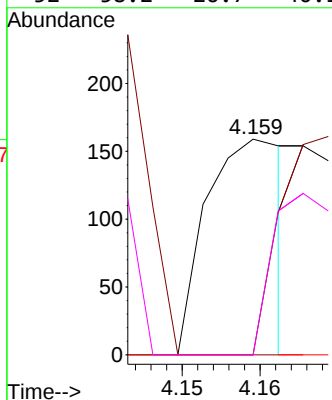
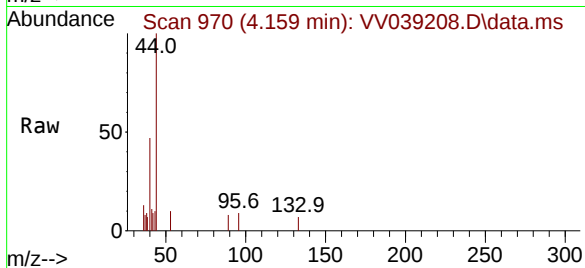




#41  
Methacrylonitrile  
Concen: 1.935 ug/l  
RT: 4.159 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

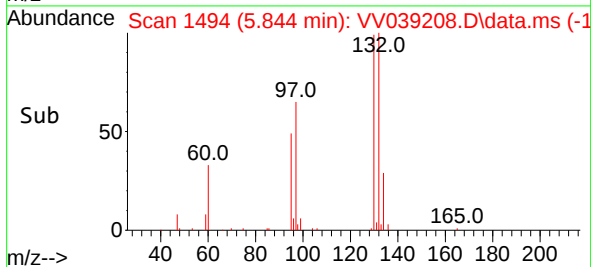
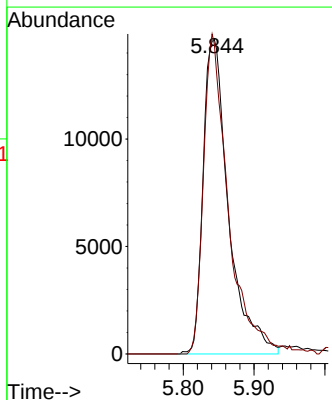
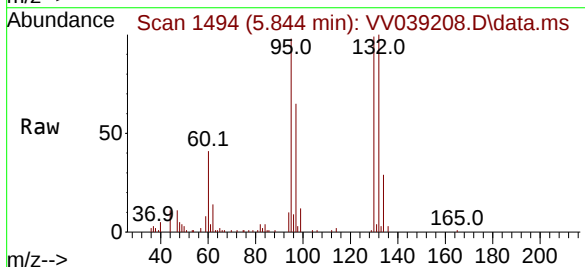
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-6-091625

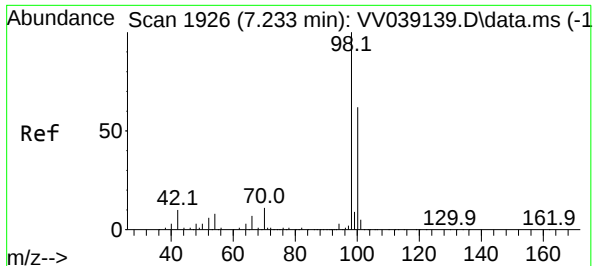
Tgt Ion: 41 Resp: 110  
Ion Ratio Lower Upper  
41 100  
39 198.2 42.2 63.2#  
67 0.0 67.9 101.9#  
52 58.2 26.7 40.1#



#44  
Trichloroethene  
Concen: 6.042 ug/l  
RT: 5.844 min Scan# 1494  
Delta R.T. 0.016 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

Tgt Ion:130 Resp: 36430  
Ion Ratio Lower Upper  
130 100  
95 98.5 0.0 199.2





#50

Toluene-d8

Concen: 46.337 ug/l

RT: 7.239 min Scan# 1926

Delta R.T. 0.006 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

Instrument :

MSVOA\_V

ClientSampleId :

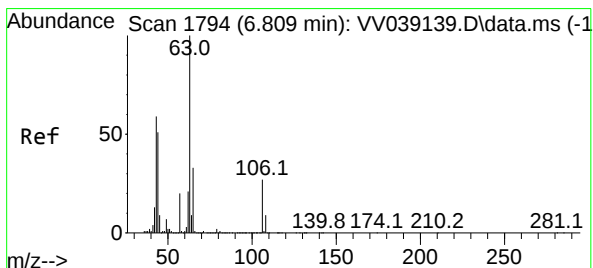
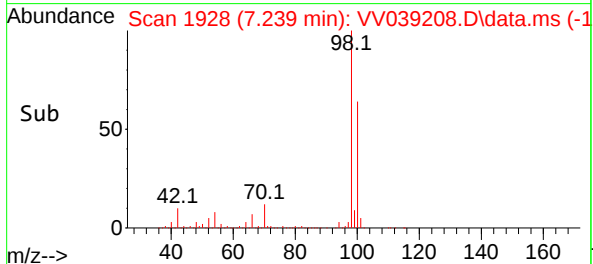
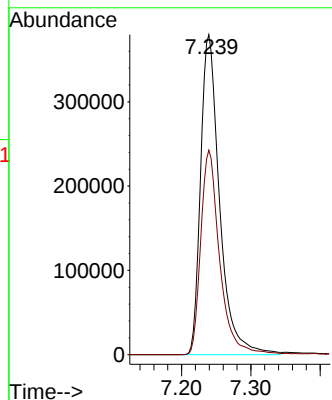
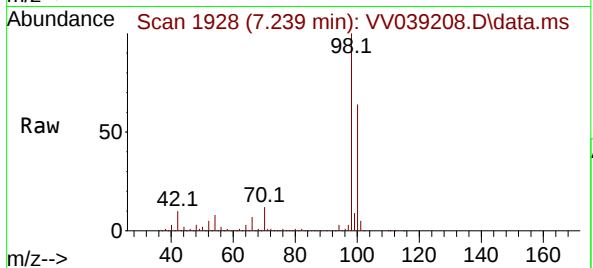
MW-6-091625

Tgt Ion: 98 Resp: 722235

Ion Ratio Lower Upper

98 100

100 63.8 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.729 ug/l

RT: 6.825 min Scan# 1799

Delta R.T. 0.016 min

Lab File: VV039208.D

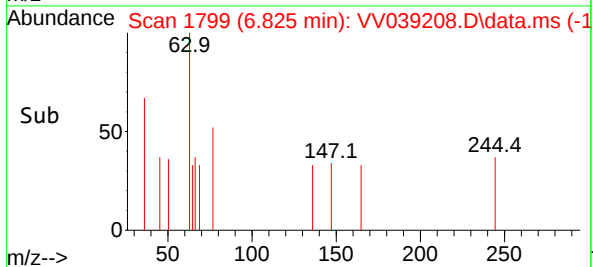
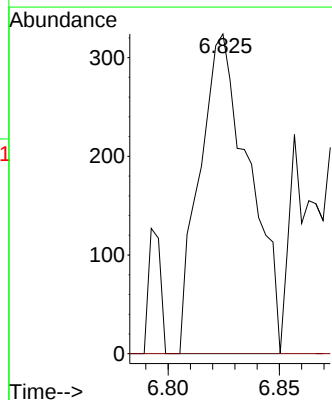
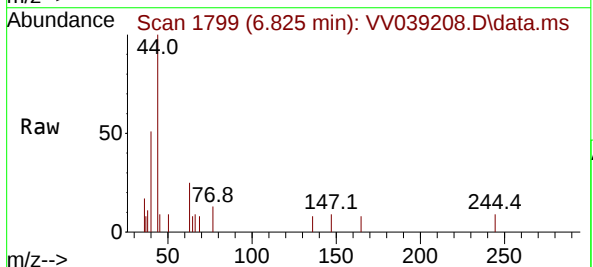
Acq: 26 Sep 2025 13:28

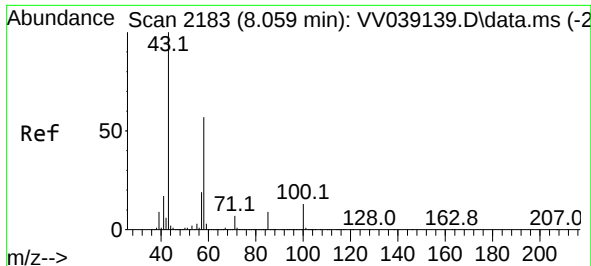
Tgt Ion: 63 Resp: 503

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.331 ug/l

RT: 8.117 min Scan# 2183

Delta R.T. 0.058 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

Instrument :

MSVOA\_V

ClientSampleId :

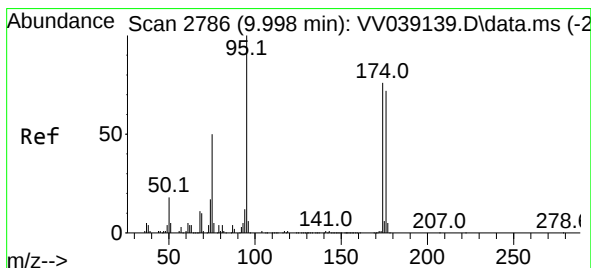
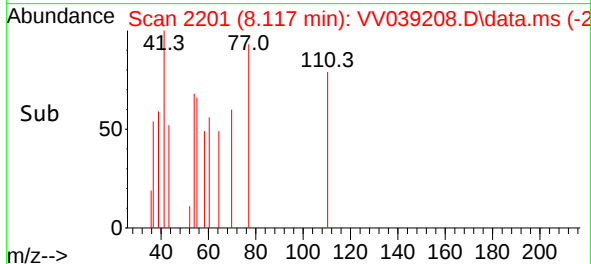
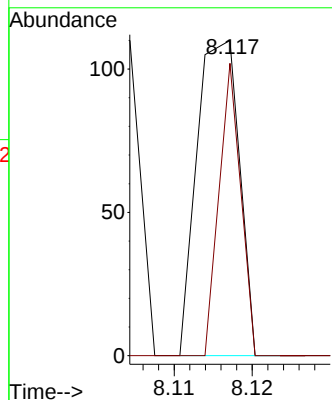
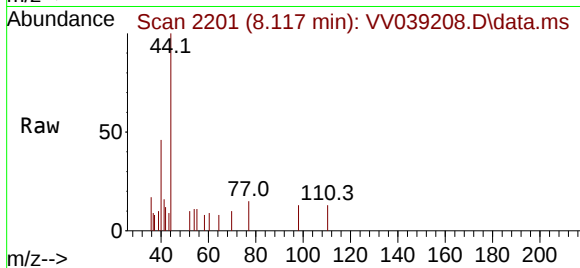
MW-6-091625

Tgt Ion: 43 Resp: 41

Ion Ratio Lower Upper

43 100

58 48.8 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 43.473 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039208.D

Acq: 26 Sep 2025 13:28

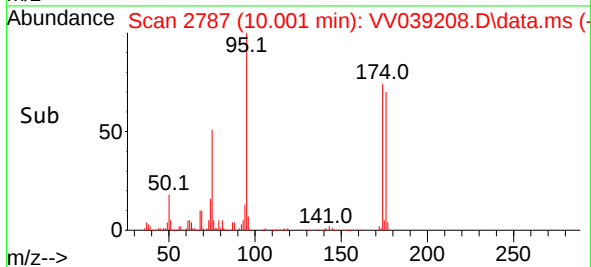
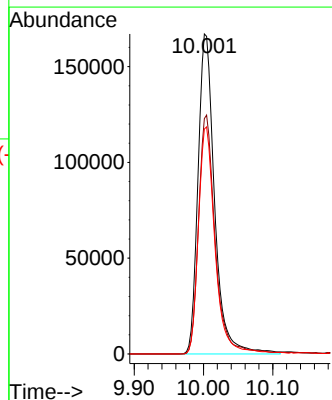
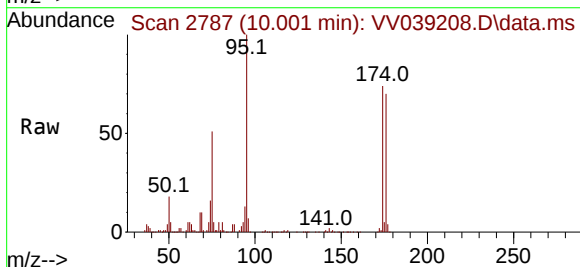
Tgt Ion: 95 Resp: 278949

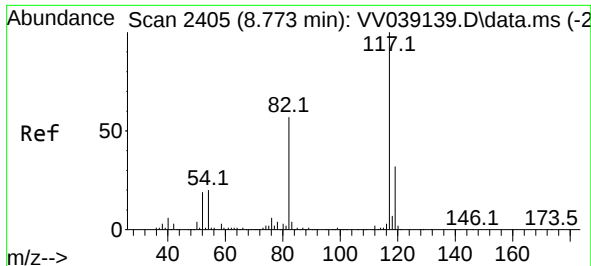
Ion Ratio Lower Upper

95 100

174 74.6 0.0 150.4

176 71.2 0.0 144.2

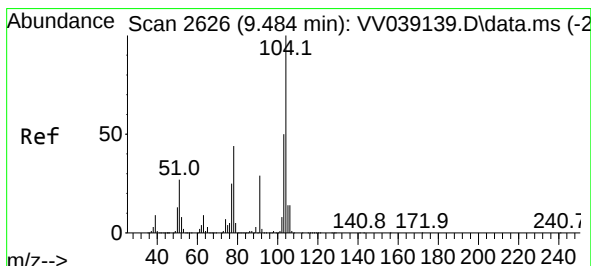
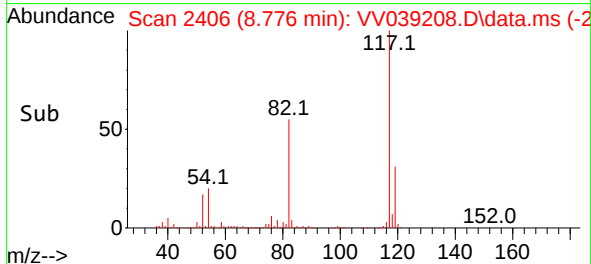
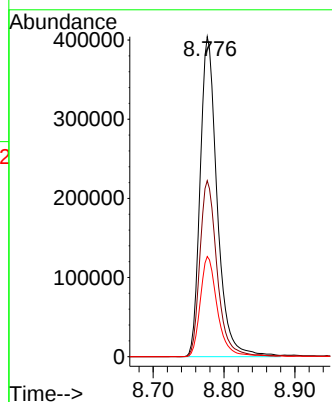
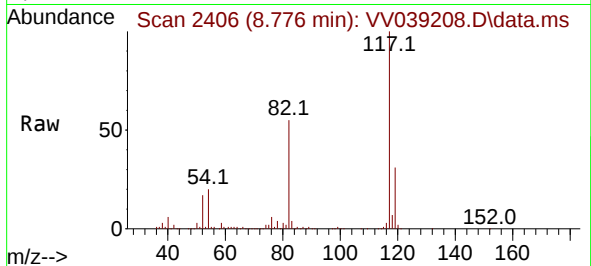




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 8.776 min Scan# 24  
Delta R.T. 0.003 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

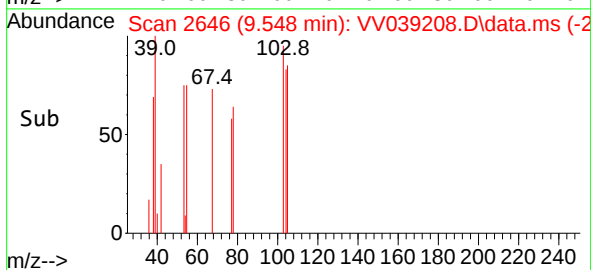
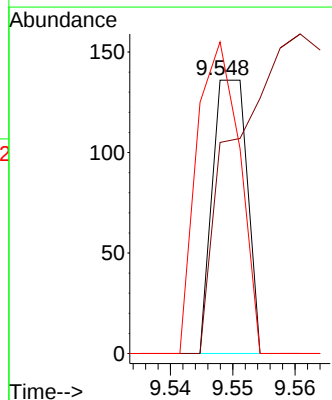
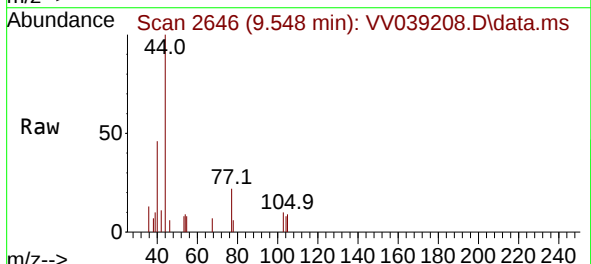
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-6-091625

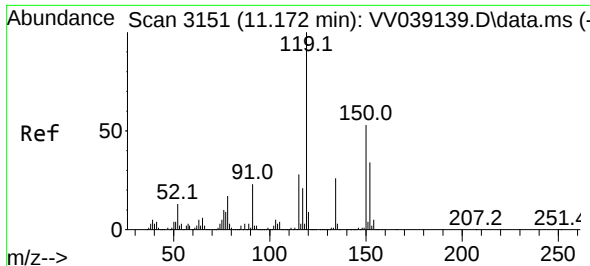
Tgt Ion:117 Resp: 675751  
Ion Ratio Lower Upper  
117 100  
82 55.0 45.4 68.2  
119 31.3 25.6 38.4



#70  
Styrene  
Concen: 1.564 ug/l  
RT: 9.548 min Scan# 2646  
Delta R.T. 0.064 min  
Lab File: VV039208.D  
Acq: 26 Sep 2025 13:28

Tgt Ion:104 Resp: 52  
Ion Ratio Lower Upper  
104 100  
78 340.4 39.8 59.6#  
103 142.3 43.4 65.2#

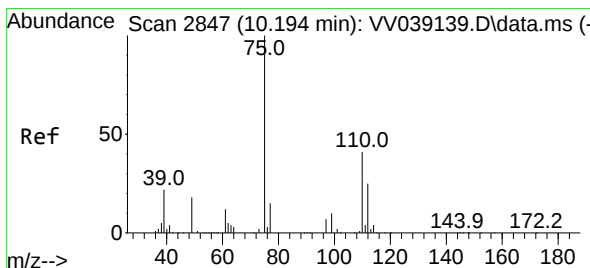
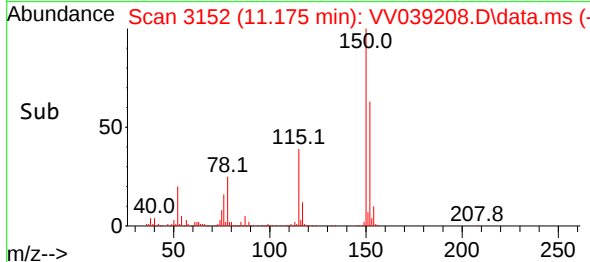
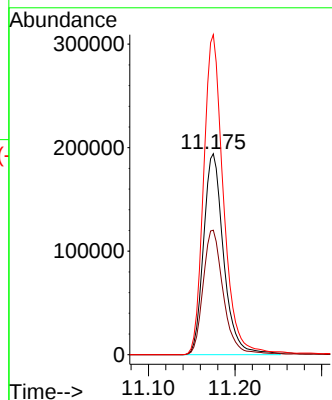
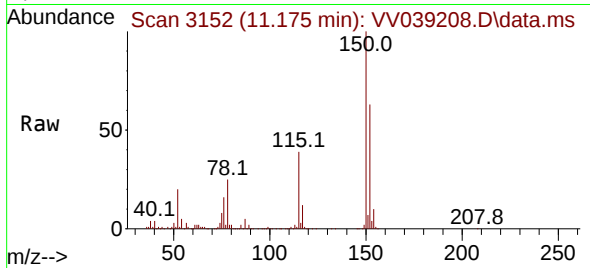




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.175 min Scan# 3151  
 Delta R.T. 0.003 min  
 Lab File: VV039208.D  
 Acq: 26 Sep 2025 13:28

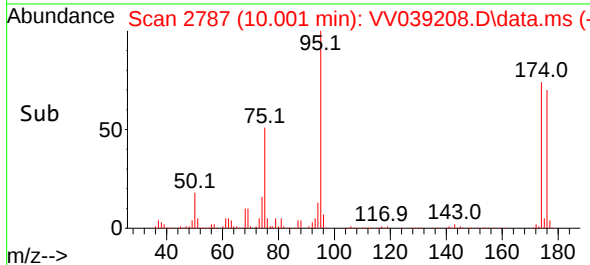
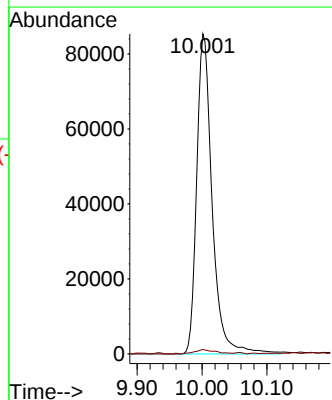
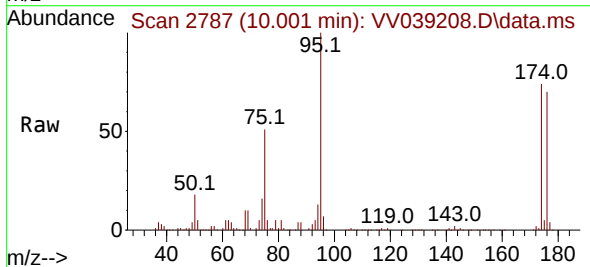
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MW-6-091625

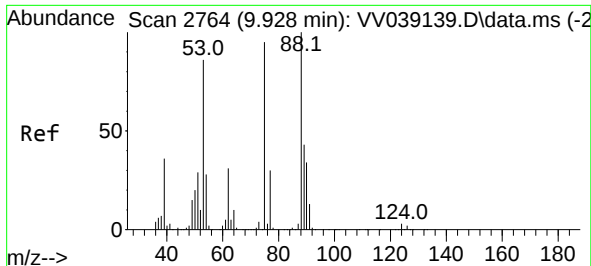
Tgt Ion:152 Resp: 313063  
 Ion Ratio Lower Upper  
 152 100  
 115 62.4 44.8 134.4  
 150 157.7 0.0 353.8



#76  
 1,2,3-Trichloropropane  
 Concen: 19.830 ug/l  
 RT: 10.001 min Scan# 2787  
 Delta R.T. -0.193 min  
 Lab File: VV039208.D  
 Acq: 26 Sep 2025 13:28

Tgt Ion: 75 Resp: 141345  
 Ion Ratio Lower Upper  
 75 100  
 77 1.8 11.3 33.8#

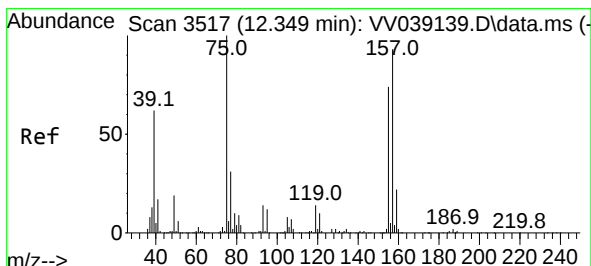
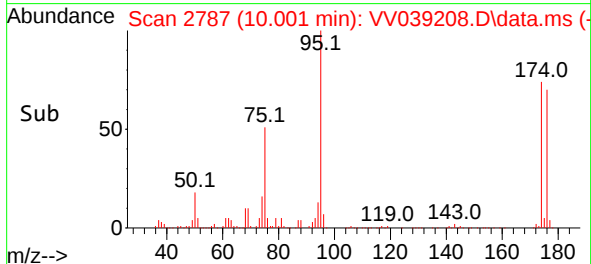
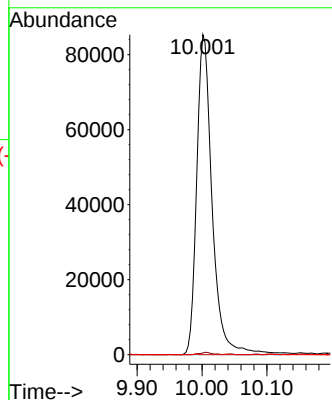
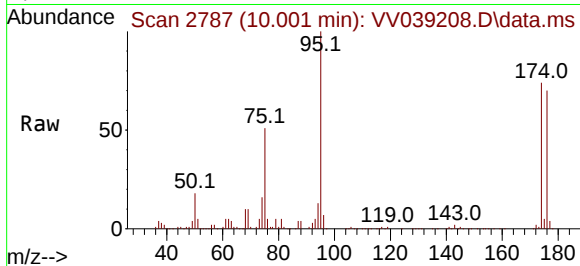




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 47.605 ug/l  
 RT: 10.001 min Scan# 21  
 Delta R.T. 0.074 min  
 Lab File: VV039208.D  
 Acq: 26 Sep 2025 13:28

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MW-6-091625

Tgt Ion: 75 Resp: 141345  
 Ion Ratio Lower Upper  
 75 100  
 53 0.6 72.5 108.7#  
 89 0.0 37.2 55.8#



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: Below Cal  
 RT: 12.332 min Scan# 3512  
 Delta R.T. -0.017 min  
 Lab File: VV039208.D  
 Acq: 26 Sep 2025 13:28

Tgt Ion: 75 Resp: 117  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 38.6 115.8#  
 157 0.0 49.5 148.3#

