

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV100325\  
 Data File : VV039252.D  
 Acq On : 03 Oct 2025 16:11  
 Operator : SY/MD  
 Sample : Q3254-01  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MW-1

Quant Time: Oct 04 01:12:54 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

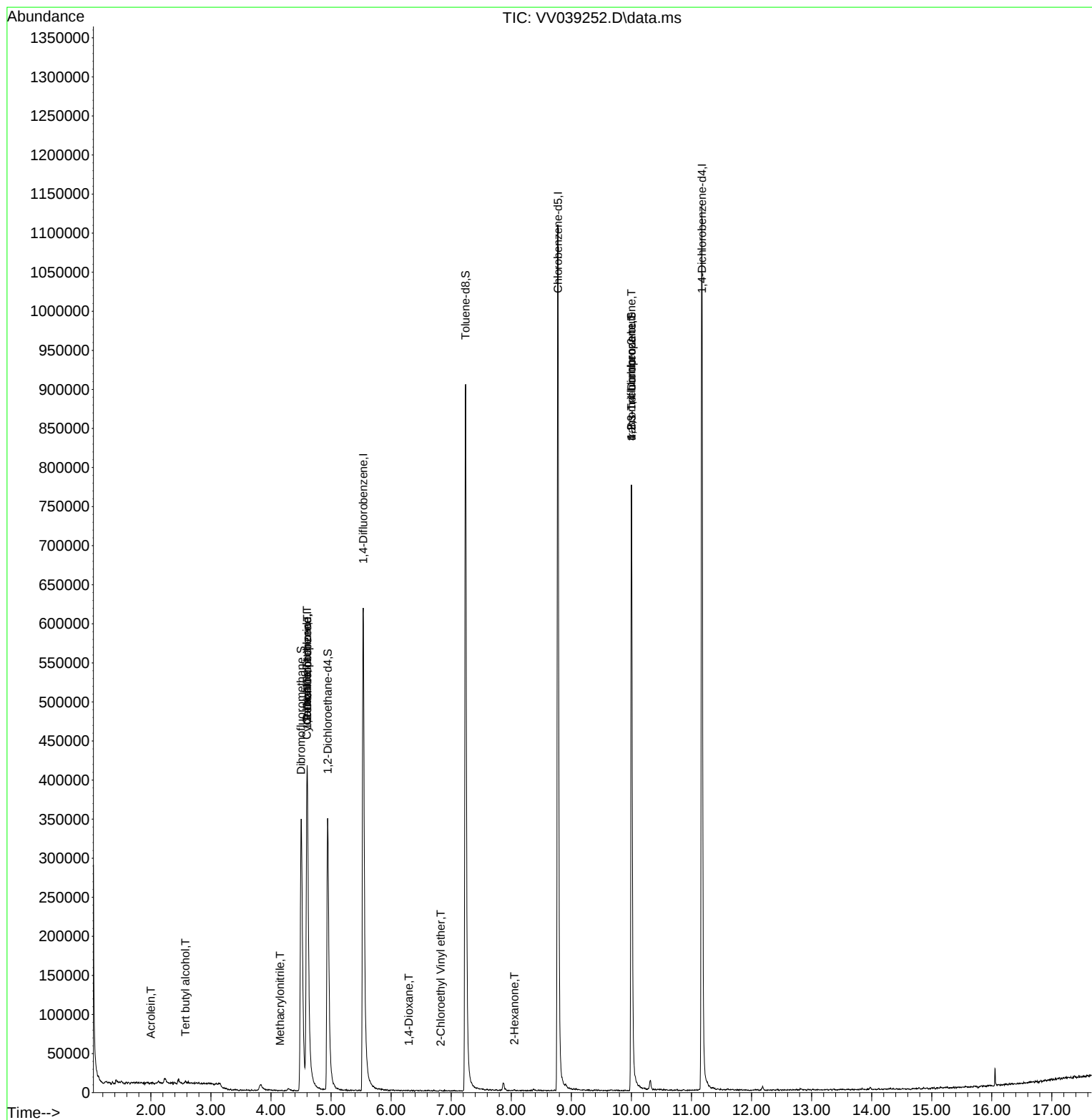
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|--------|-----------|
| -----                         |        |       |          |           |        |           |
| Internal Standards            |        |       |          |           |        |           |
| 1) Pentafluorobenzene         | 4.603  | 168   | 361761   | 50.000    | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene       | 5.535  | 114   | 619136   | 50.000    | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 8.776  | 117   | 640562   | 50.000    | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 11.175 | 152   | 308059   | 50.000    | ug/l   | 0.00      |
| System Monitoring Compounds   |        |       |          |           |        |           |
| 33) 1,2-Dichloroethane-d4     | 4.944  | 65    | 311732   | 59.539    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 81 - 118 | Recovery  | =      | 119.080%# |
| 35) Dibromofluoromethane      | 4.503  | 113   | 292587   | 58.784    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 80 - 119 | Recovery  | =      | 117.560%  |
| 50) Toluene-d8                | 7.240  | 98    | 669176   | 45.776    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 89 - 112 | Recovery  | =      | 91.560%   |
| 62) 4-Bromofluorobenzene      | 10.002 | 95    | 271111   | 45.050    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 85 - 114 | Recovery  | =      | 90.100%   |
| Target Compounds              |        |       |          |           |        |           |
|                               |        |       |          |           |        | Qvalue    |
| 6) Chloroethane               | 1.568  | 64    | 177      | Below Cal | #      | 44        |
| 11) Tert butyl alcohol        | 2.574  | 59    | 248      | 0.224     | ug/l # | 82        |
| 13) Acrolein                  | 2.002  | 56    | 153      | 0.797     | ug/l # | 15        |
| 16) Acetone                   | 2.130  | 43    | 3339     | Below Cal | #      | 84        |
| 20) Methylene Chloride        | 2.462  | 84    | 2387     | Below Cal | #      | 87        |
| 31) Cyclohexane               | 4.597  | 56    | 7323     | 0.784     | ug/l # | 7         |
| 36) 1,1-Dichloropropene       | 4.606  | 75    | 28429    | 3.778     | ug/l # | 45        |
| 38) Carbon Tetrachloride      | 4.600  | 117   | 37881    | 4.119     | ug/l # | 17        |
| 41) Methacrylonitrile         | 4.150  | 41    | 240      | 1.966     | ug/l # | 27        |
| 49) 1,4-Dioxane               | 6.294  | 88    | 47       | 0.516     | ug/l # | 25        |
| 58) 2-Chloroethyl Vinyl ether | 6.825  | 63    | 314      | 9.693     | ug/l # | 47        |
| 59) 2-Hexanone                | 8.053  | 43    | 57       | 2.334     | ug/l   | 74        |
| 76) 1,2,3-Trichloropropane    | 10.002 | 75    | 134537   | 19.181    | ug/l # | 57        |
| 81) trans-1,4-Dichloro-2-b... | 10.002 | 75    | 134537   | 46.048    | ug/l # | 13        |
| 92) 1,2-Dibromo-3-Chloropr... | 12.362 | 75    | 139      | Below Cal | #      | 5         |
| -----                         |        |       |          |           |        |           |

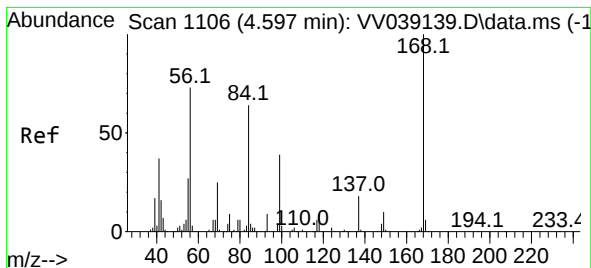
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV100325\  
Data File : VV039252.D  
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Operator : SY/MD  
Sample : Q3254-01  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

Quant Time: Oct 04 01:12:54 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

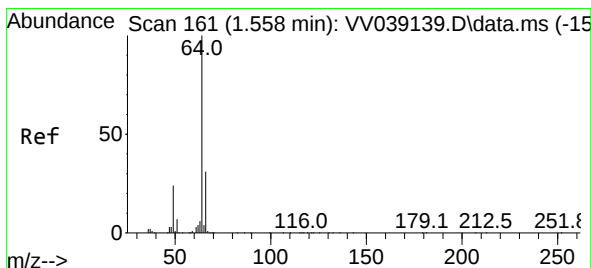
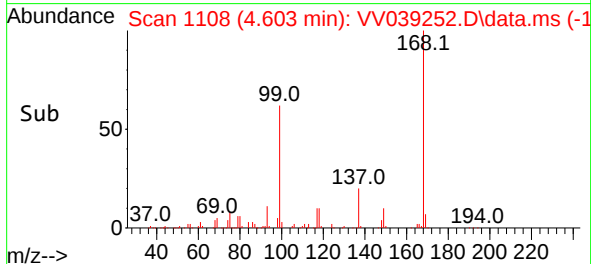
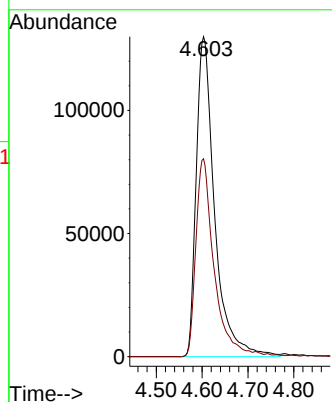
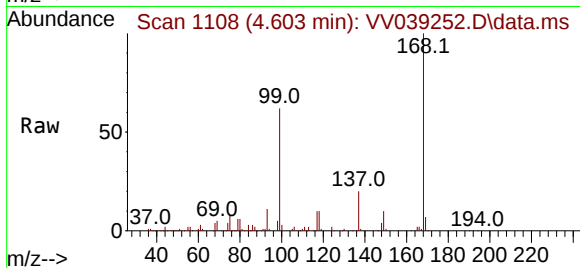




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.603 min Scan# 1108  
Delta R.T. 0.006 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

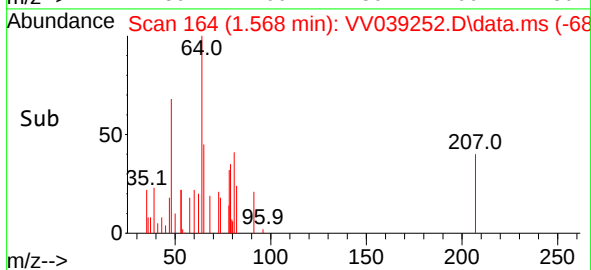
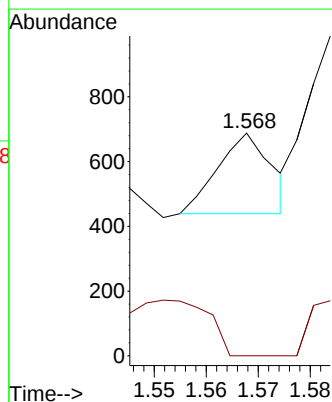
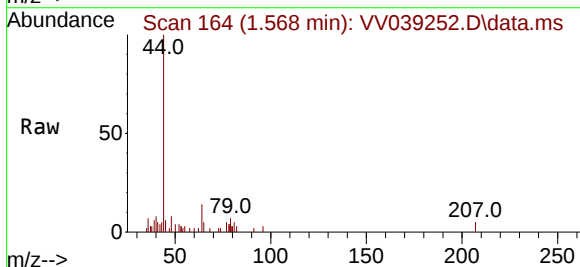
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

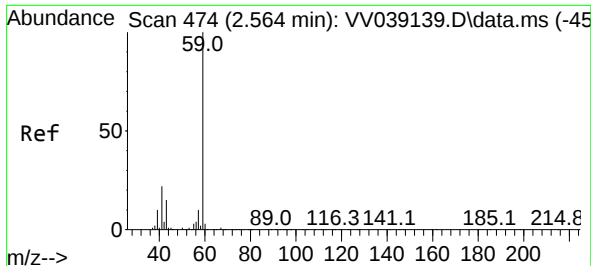
Tgt Ion:168 Resp: 361761  
Ion Ratio Lower Upper  
168 100  
99 61.8 49.6 74.4



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.568 min Scan# 164  
Delta R.T. 0.010 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

Tgt Ion: 64 Resp: 177  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.6 36.8#

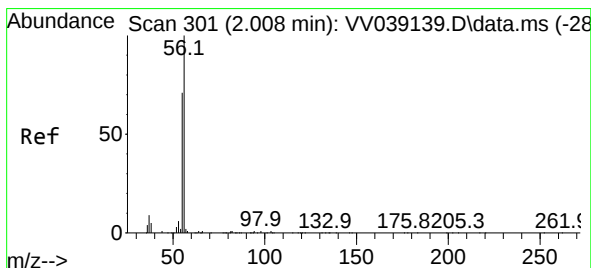
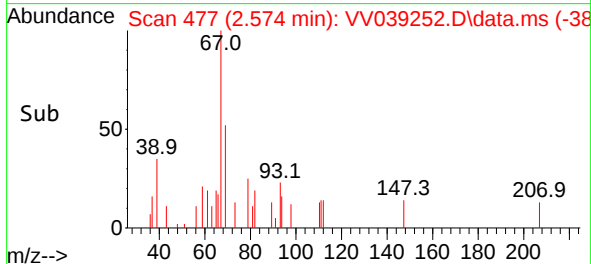
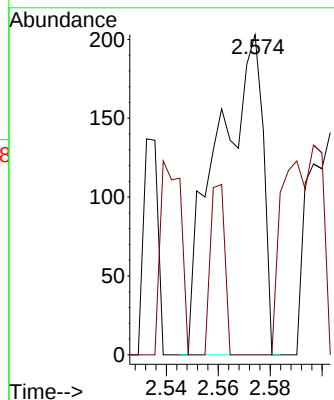
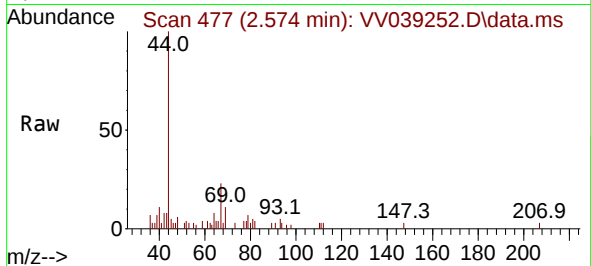




#11  
Tert butyl alcohol  
Concen: 0.224 ug/l  
RT: 2.574 min Scan# 41  
Delta R.T. 0.010 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

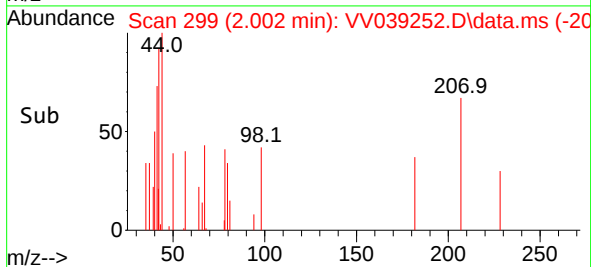
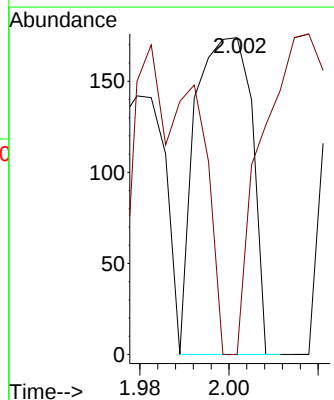
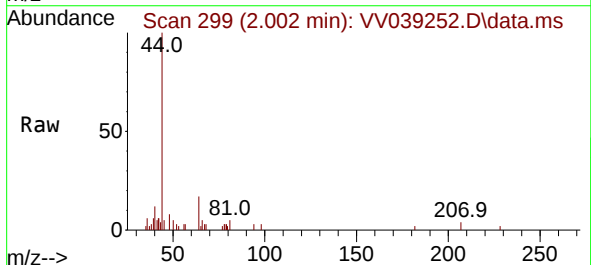
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

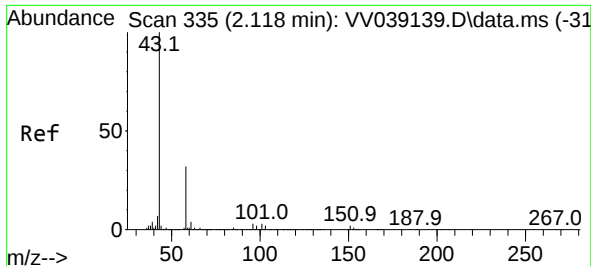
Tgt Ion: 59 Resp: 248  
Ion Ratio Lower Upper  
59 100  
57 16.5 7.8 11.8#



#13  
Acrolein  
Concen: 0.797 ug/l  
RT: 2.002 min Scan# 299  
Delta R.T. -0.006 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

Tgt Ion: 56 Resp: 153  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.2 84.4#

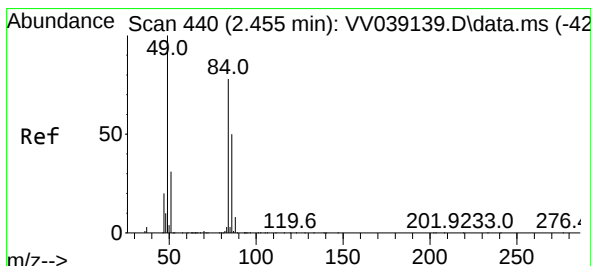
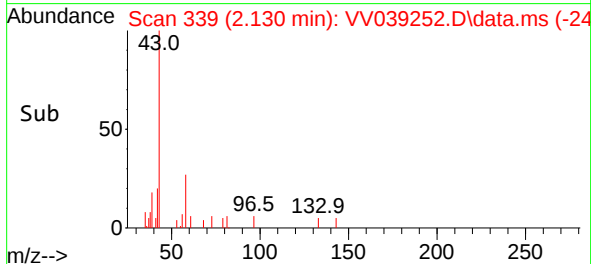
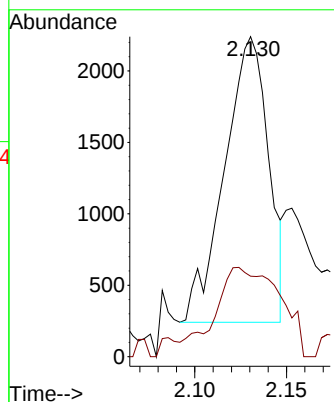
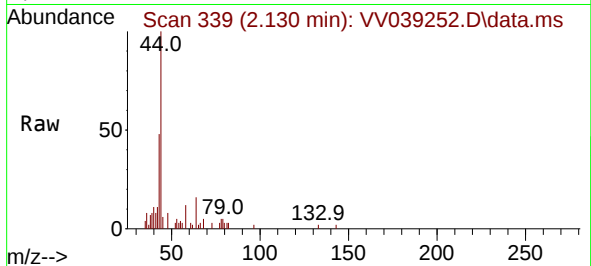




#16  
Acetone  
Concen: Below Cal  
RT: 2.130 min Scan# 339  
Delta R.T. 0.012 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

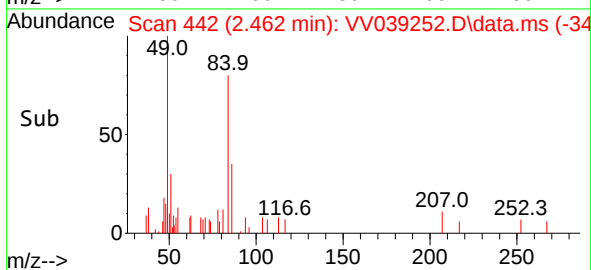
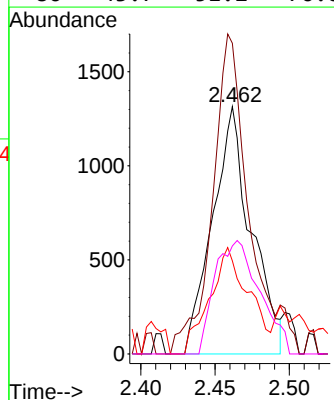
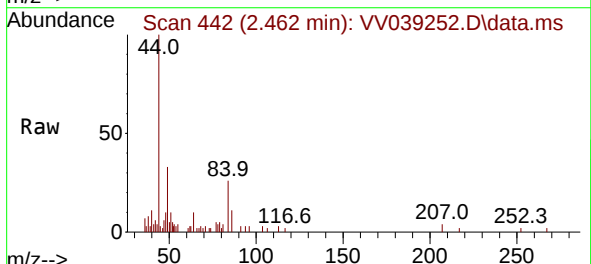
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

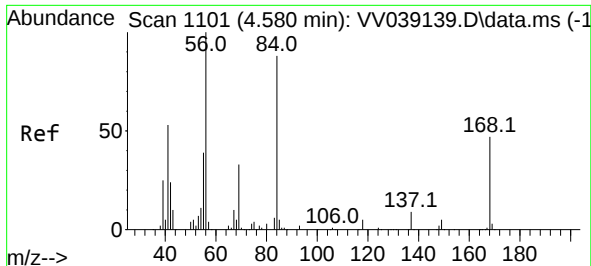
Tgt Ion: 43 Resp: 3339  
Ion Ratio Lower Upper  
43 100  
58 23.1 25.8 38.6#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.462 min Scan# 442  
Delta R.T. 0.007 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

Tgt Ion: 84 Resp: 2387  
Ion Ratio Lower Upper  
84 100  
49 117.0 102.8 154.2  
51 37.6 31.9 47.9  
86 43.7 51.2 76.8#

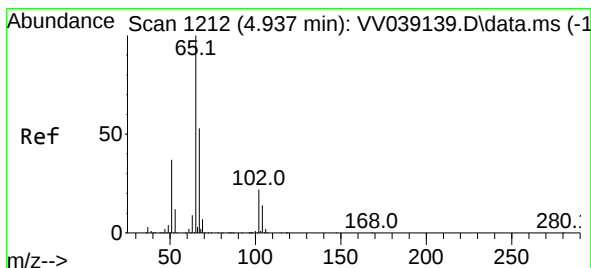
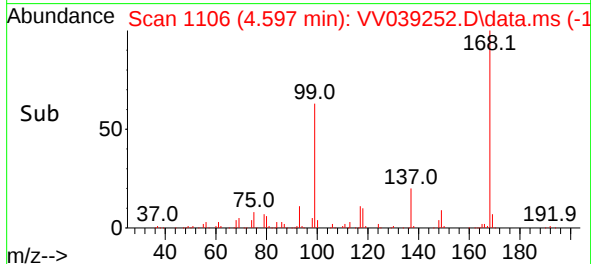
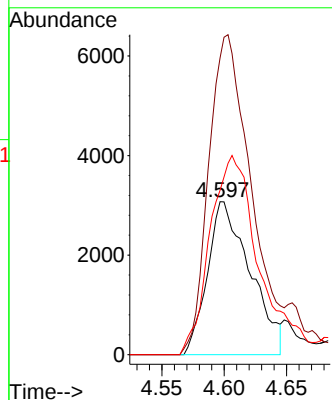
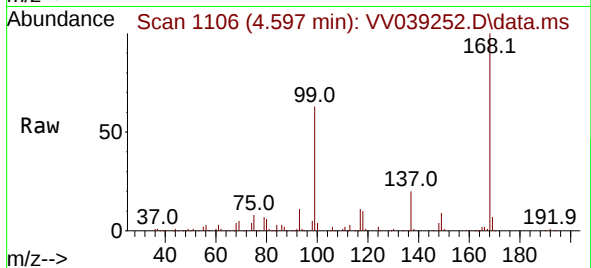




#31  
Cyclohexane  
Concen: 0.784 ug/l  
RT: 4.597 min Scan# 1106  
Delta R.T. 0.016 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

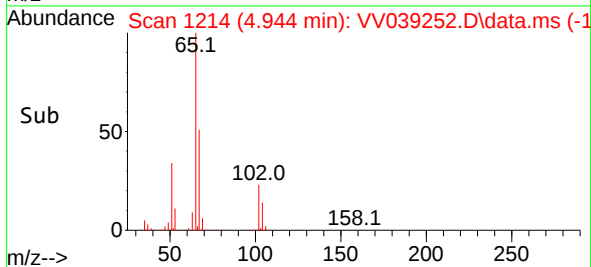
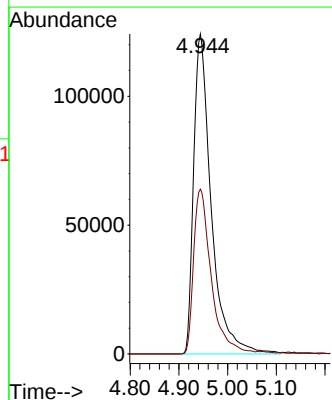
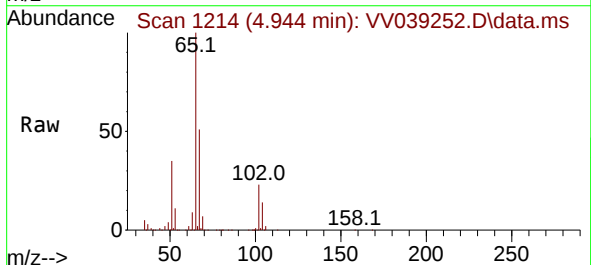
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

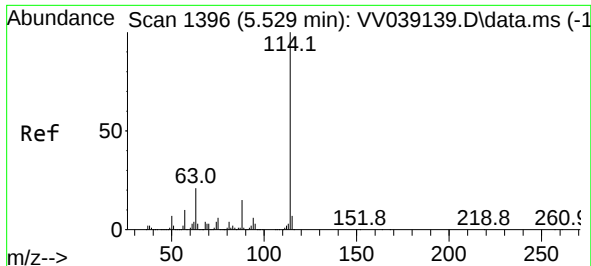
Tgt Ion: 56 Resp: 7323  
Ion Ratio Lower Upper  
56 100  
69 193.9 26.2 39.2#  
84 107.4 70.3 105.5#



#33  
1,2-Dichloroethane-d4  
Concen: 59.539 ug/l  
RT: 4.944 min Scan# 1214  
Delta R.T. 0.006 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

Tgt Ion: 65 Resp: 311732  
Ion Ratio Lower Upper  
65 100  
67 51.6 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: VV039252.D

Acq: 03 Oct 2025 16:11

Instrument :

MSVOA\_V

ClientSampleId :

MW-1

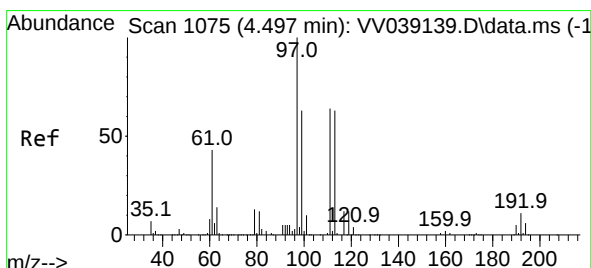
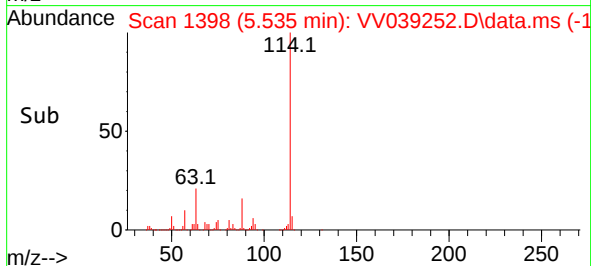
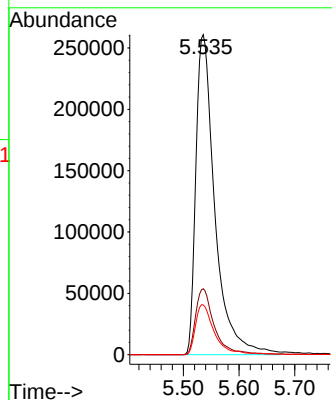
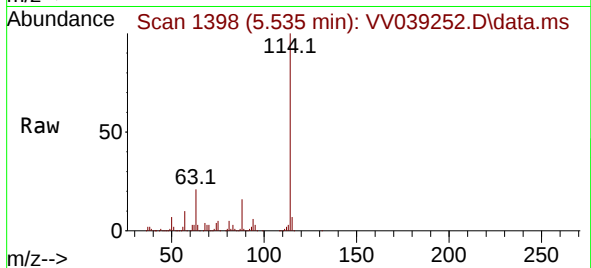
Tgt Ion:114 Resp: 619136

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.6

88 15.6 0.0 30.8



#35

Dibromofluoromethane

Concen: 58.784 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

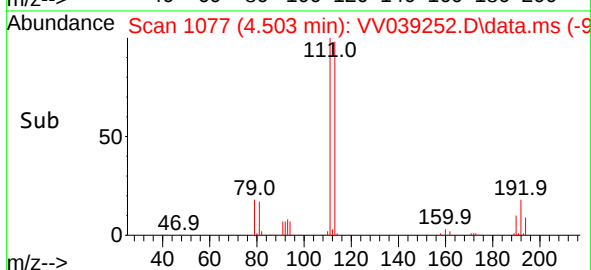
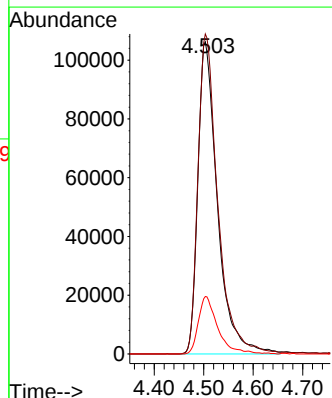
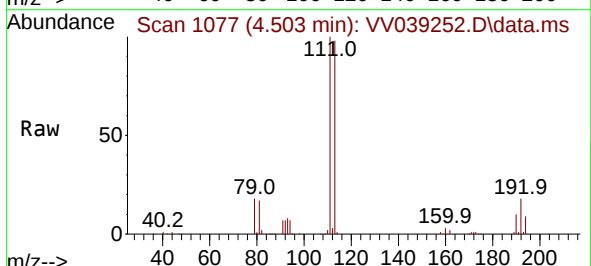
Tgt Ion:113 Resp: 292587

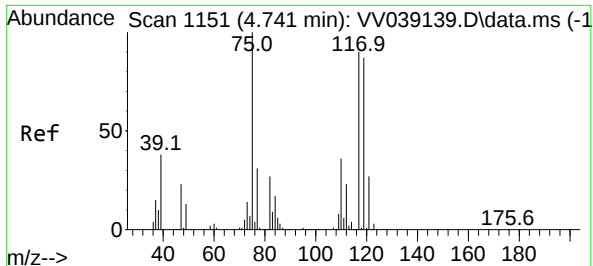
Ion Ratio Lower Upper

113 100

111 103.6 82.4 123.6

192 17.8 13.8 20.8

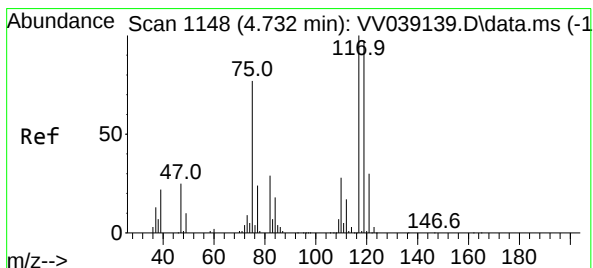
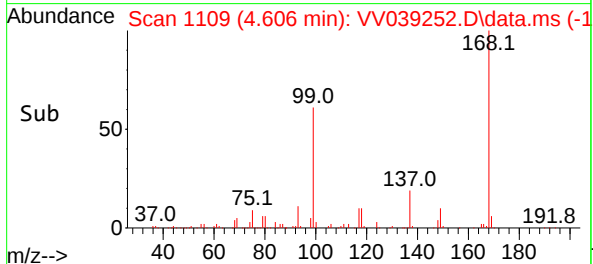
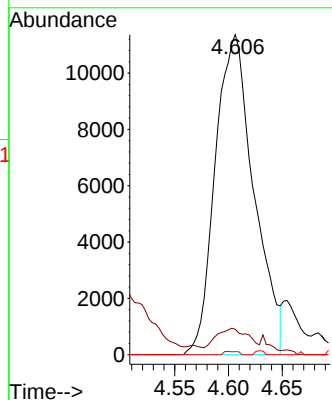
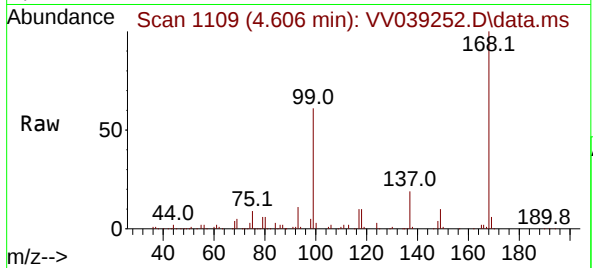




#36  
 1,1-Dichloropropene  
 Concen: 3.778 ug/l  
 RT: 4.606 min Scan# 1109  
 Delta R.T. -0.135 min  
 Lab File: VV039252.D  
 Acq: 03 Oct 2025 16:11

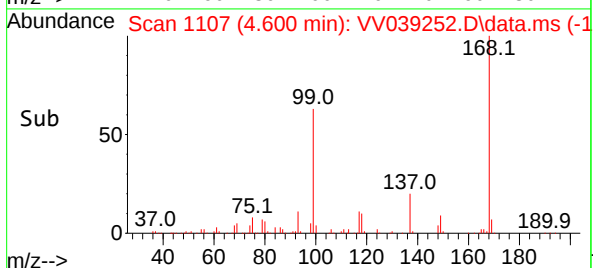
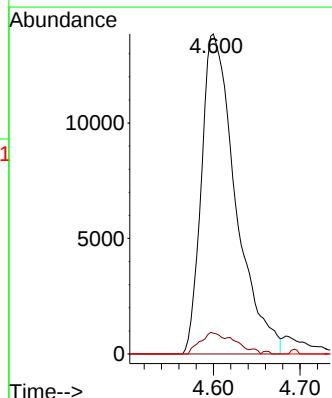
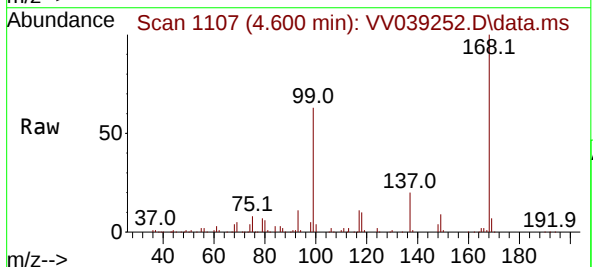
Instrument :  
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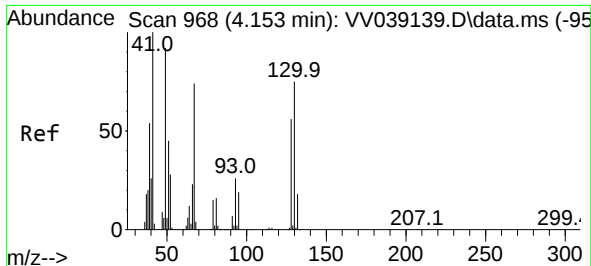
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 Ion Ratio Lower Upper  
 75 100  
 110 4.6 18.1 54.1#  
 77 0.4 24.8 37.2#



#38  
 Carbon Tetrachloride  
 Concen: 4.119 ug/l  
 RT: 4.600 min Scan# 1107  
 Delta R.T. -0.132 min  
 Lab File: VV039252.D  
 Acq: 03 Oct 2025 16:11

Tgt Ion: 117 Resp: 37881  
 Ion Ratio Lower Upper  
 117 100  
 119 6.5 77.2 115.8#  
 121 0.0 24.2 36.2#

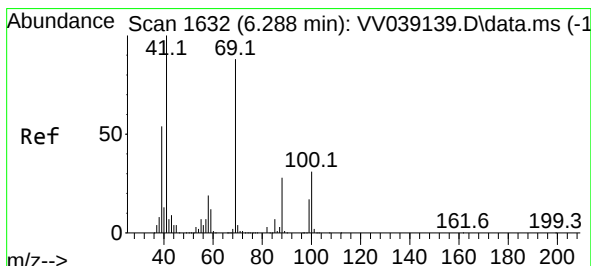
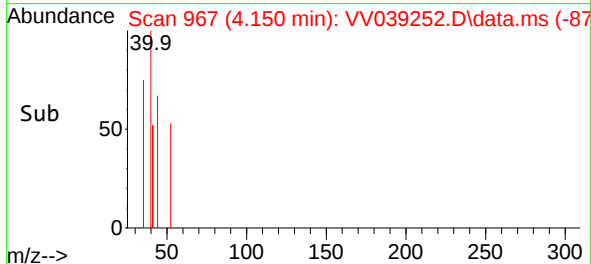
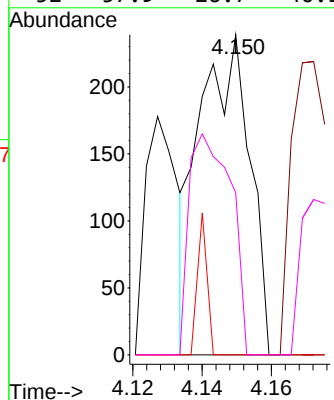
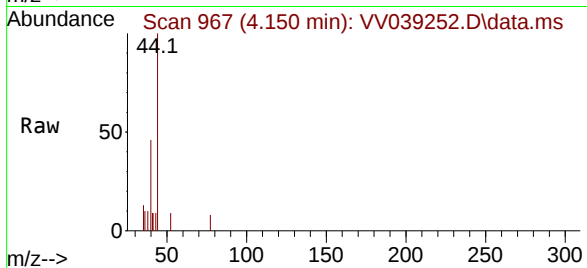




#41  
Methacrylonitrile  
Concen: 1.966 ug/l  
RT: 4.150 min Scan# 968  
Delta R.T. -0.003 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

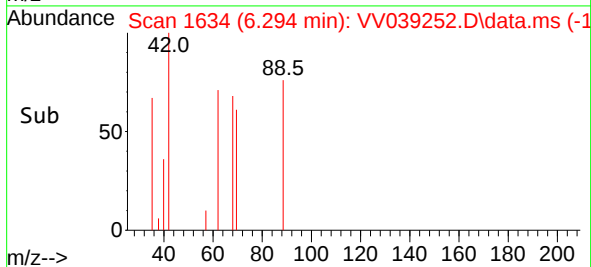
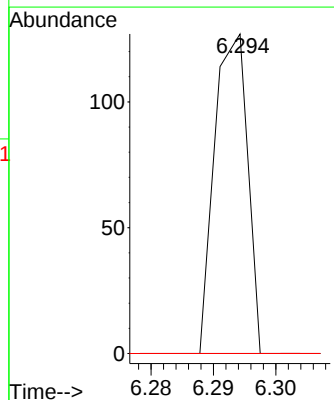
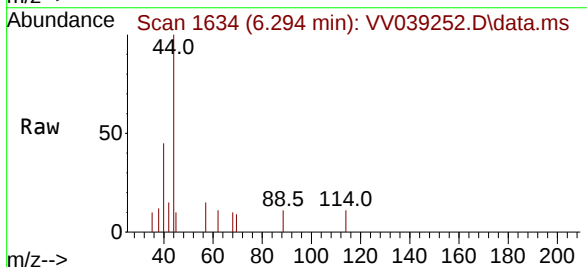
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

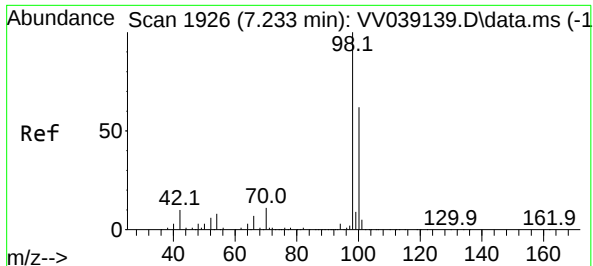
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 240   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 0.0      | 42.2 63.2#  |
| 67 8.3      | 67.9 101.9# |
| 52 57.9     | 26.7 40.1#  |



#49  
1,4-Dioxane  
Concen: 0.516 ug/l  
RT: 6.294 min Scan# 1634  
Delta R.T. 0.006 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 47    |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 43 0.0      | 25.1 37.7#  |
| 58 0.0      | 53.6 80.4#  |

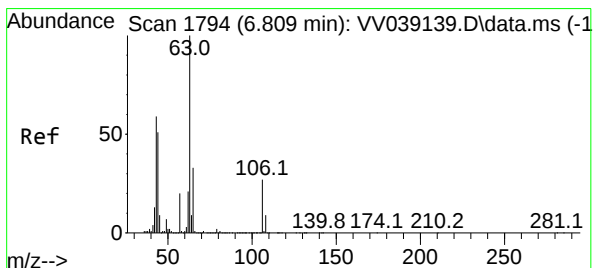
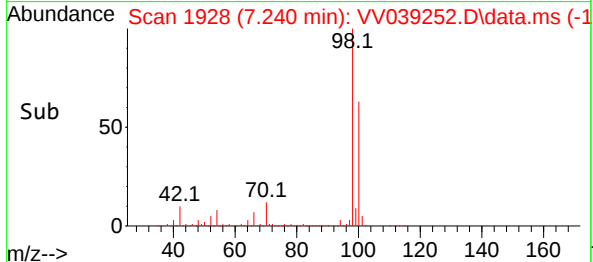
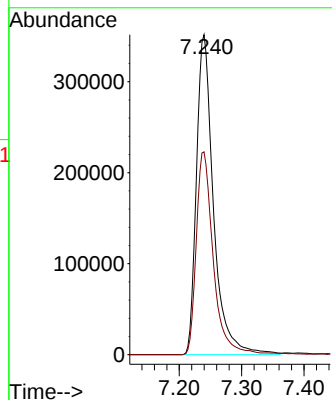
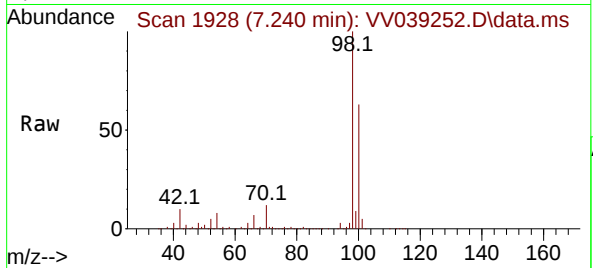




#50  
Toluene-d8  
Concen: 45.776 ug/l  
RT: 7.240 min Scan# 1926  
Delta R.T. 0.006 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

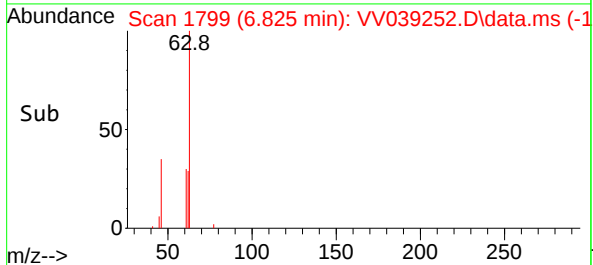
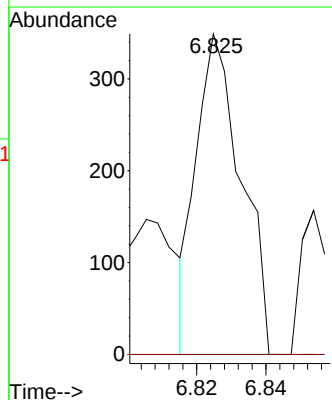
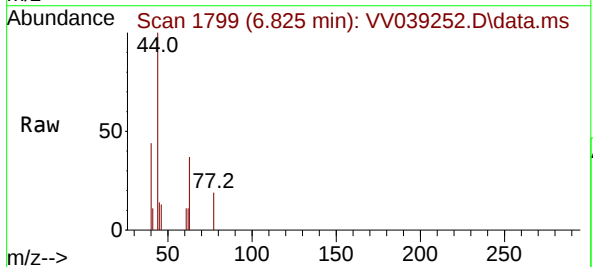
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

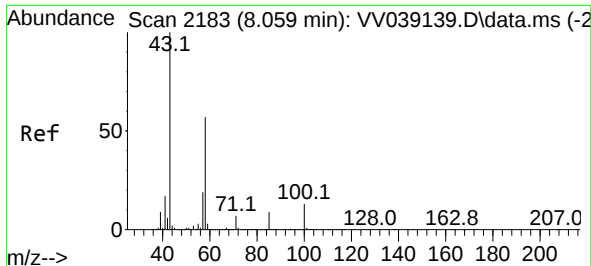
Tgt Ion: 98 Resp: 669176  
Ion Ratio Lower Upper  
98 100  
100 62.9 52.2 78.2



#58  
2-Chloroethyl Vinyl ether  
Concen: 9.693 ug/l  
RT: 6.825 min Scan# 1799  
Delta R.T. 0.016 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

Tgt Ion: 63 Resp: 314  
Ion Ratio Lower Upper  
63 100  
106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.334 ug/l

RT: 8.053 min Scan# 2183

Delta R.T. -0.006 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

Instrument :

MSVOA\_V

ClientSampleId :

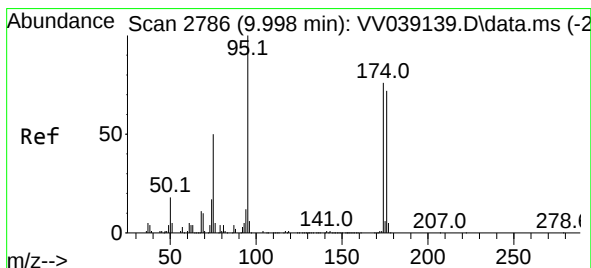
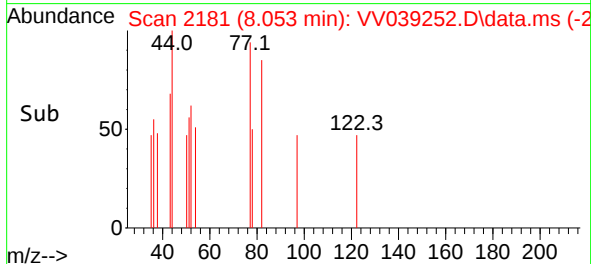
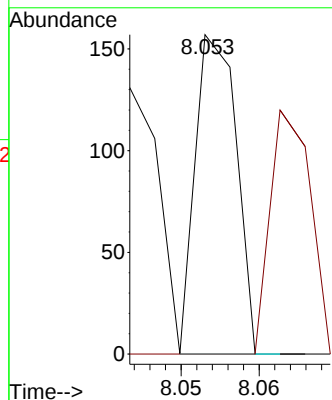
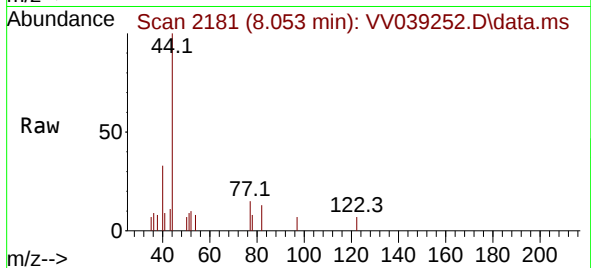
MW-1

Tgt Ion: 43 Resp: 57

Ion Ratio Lower Upper

43 100

58 75.4 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 45.050 ug/l

RT: 10.002 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039252.D

Acq: 03 Oct 2025 16:11

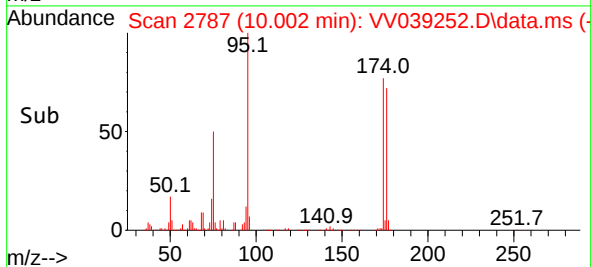
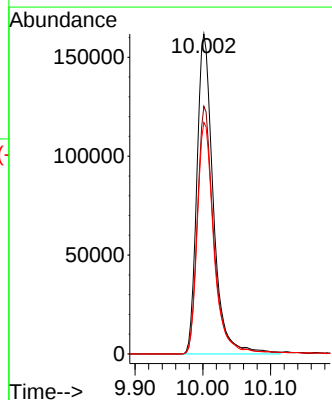
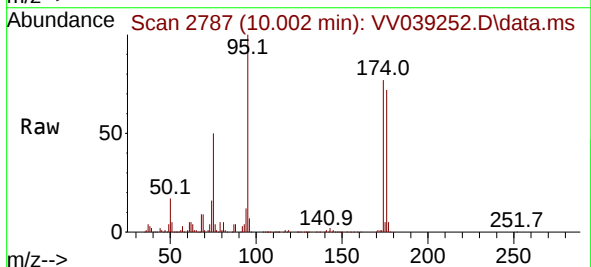
Tgt Ion: 95 Resp: 271111

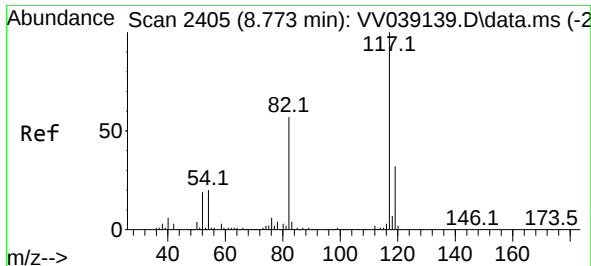
Ion Ratio Lower Upper

95 100

174 77.7 0.0 150.4

176 72.0 0.0 144.2

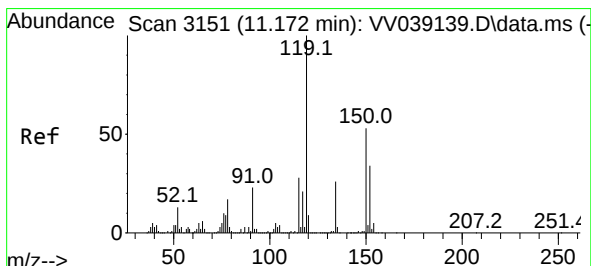
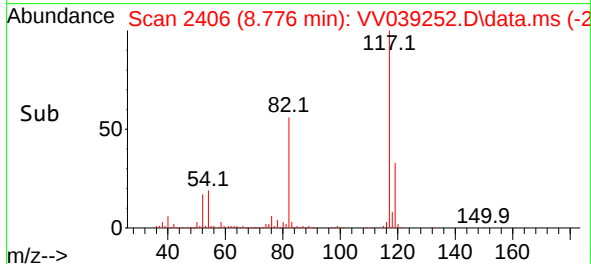
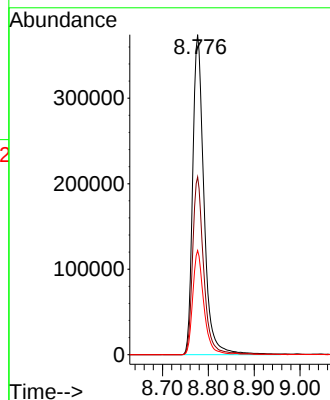
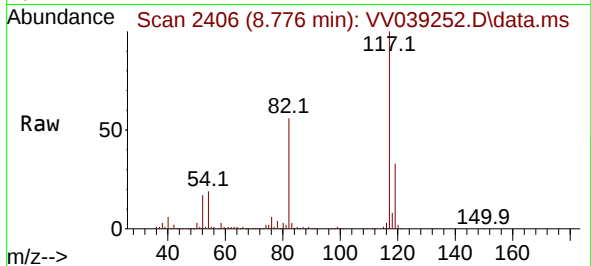




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 8.776 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

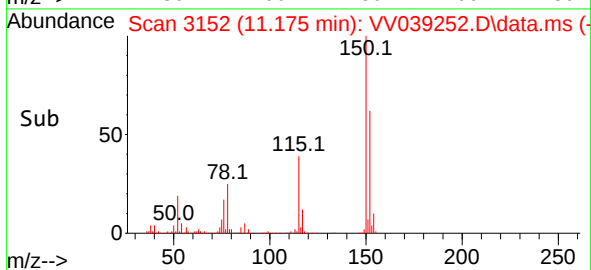
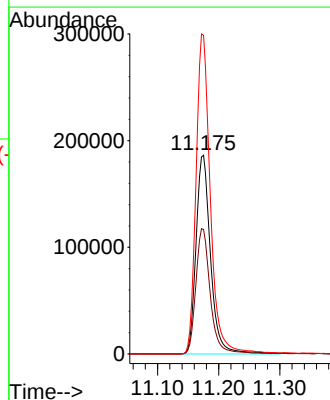
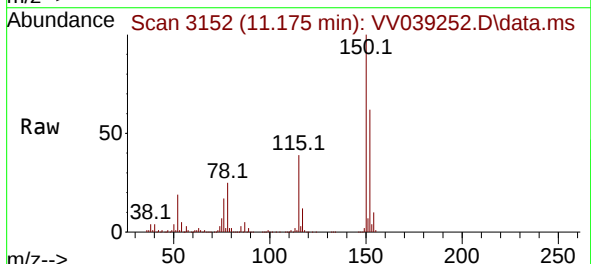
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

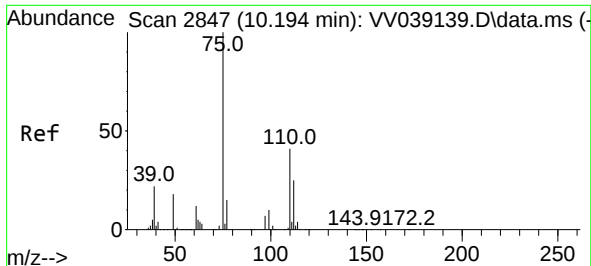
Tgt Ion:117 Resp: 640562  
Ion Ratio Lower Upper  
117 100  
82 55.6 45.4 68.2  
119 32.5 25.6 38.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.175 min Scan# 3152  
Delta R.T. 0.003 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

Tgt Ion:152 Resp: 308059  
Ion Ratio Lower Upper  
152 100  
115 62.6 44.8 134.4  
150 158.8 0.0 353.8

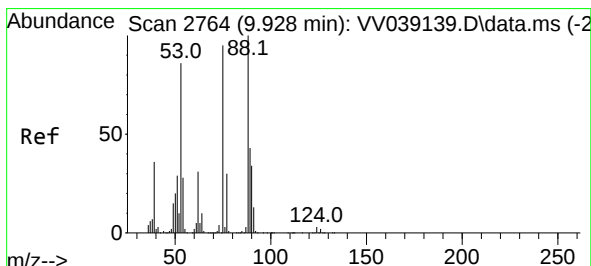
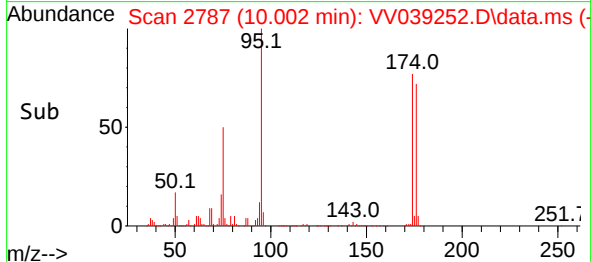
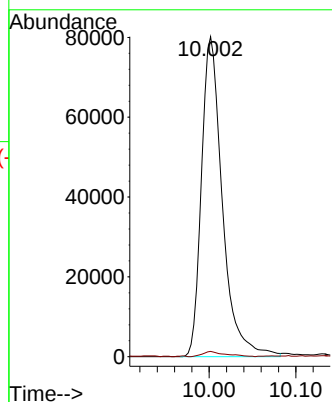
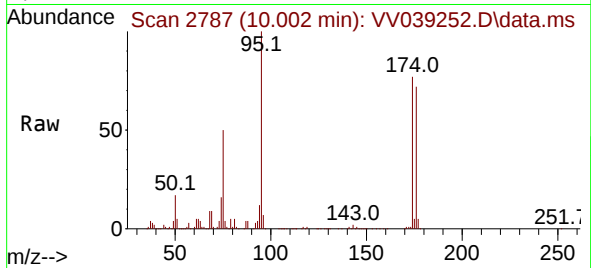




#76  
1,2,3-Trichloropropane  
Concen: 19.181 ug/l  
RT: 10.002 min Scan# 2787  
Delta R.T. -0.193 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

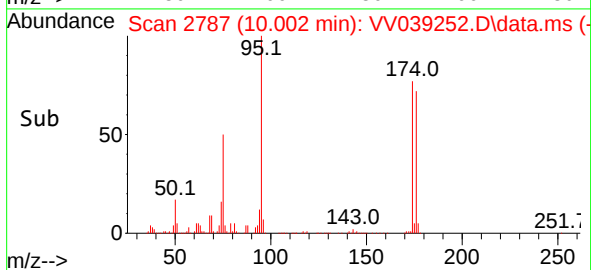
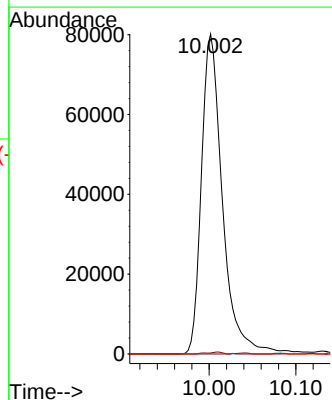
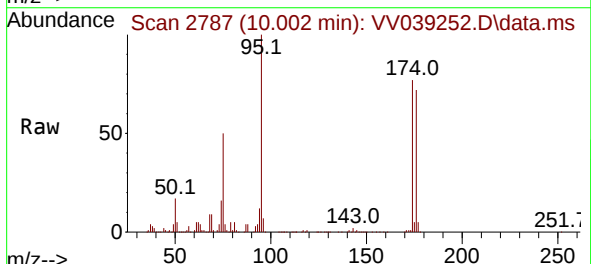
Instrument :  
MSVOA\_V  
ClientSampleId :  
MW-1

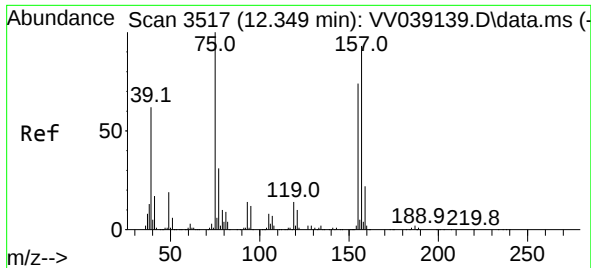
Tgt Ion: 75 Resp: 134537  
Ion Ratio Lower Upper  
75 100  
77 1.8 11.3 33.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 46.048 ug/l  
RT: 10.002 min Scan# 2787  
Delta R.T. 0.074 min  
Lab File: VV039252.D  
Acq: 03 Oct 2025 16:11

Tgt Ion: 75 Resp: 134537  
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: 12.362 min Scan# 3

Delta R.T. 0.013 min

Lab File: VV039252.D

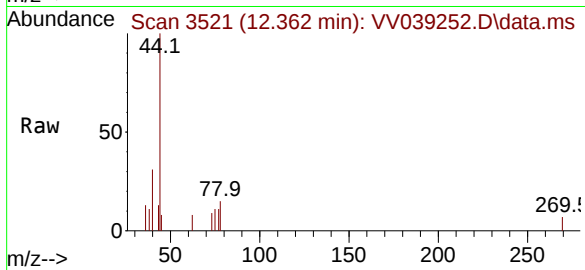
Acq: 03 Oct 2025 16:11

Instrument :

MSVOA\_V

ClientSampleId :

MW-1



Tgt Ion: 75 Resp: 139

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

