

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV092425\  
 Data File : VV039147.D  
 Acq On : 24 Sep 2025 12:08  
 Operator : SY/MD  
 Sample : VV0924MBL01  
 Misc : 5.00g/10.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VV0924MBL01

Quant Time: Sep 25 04:43:34 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

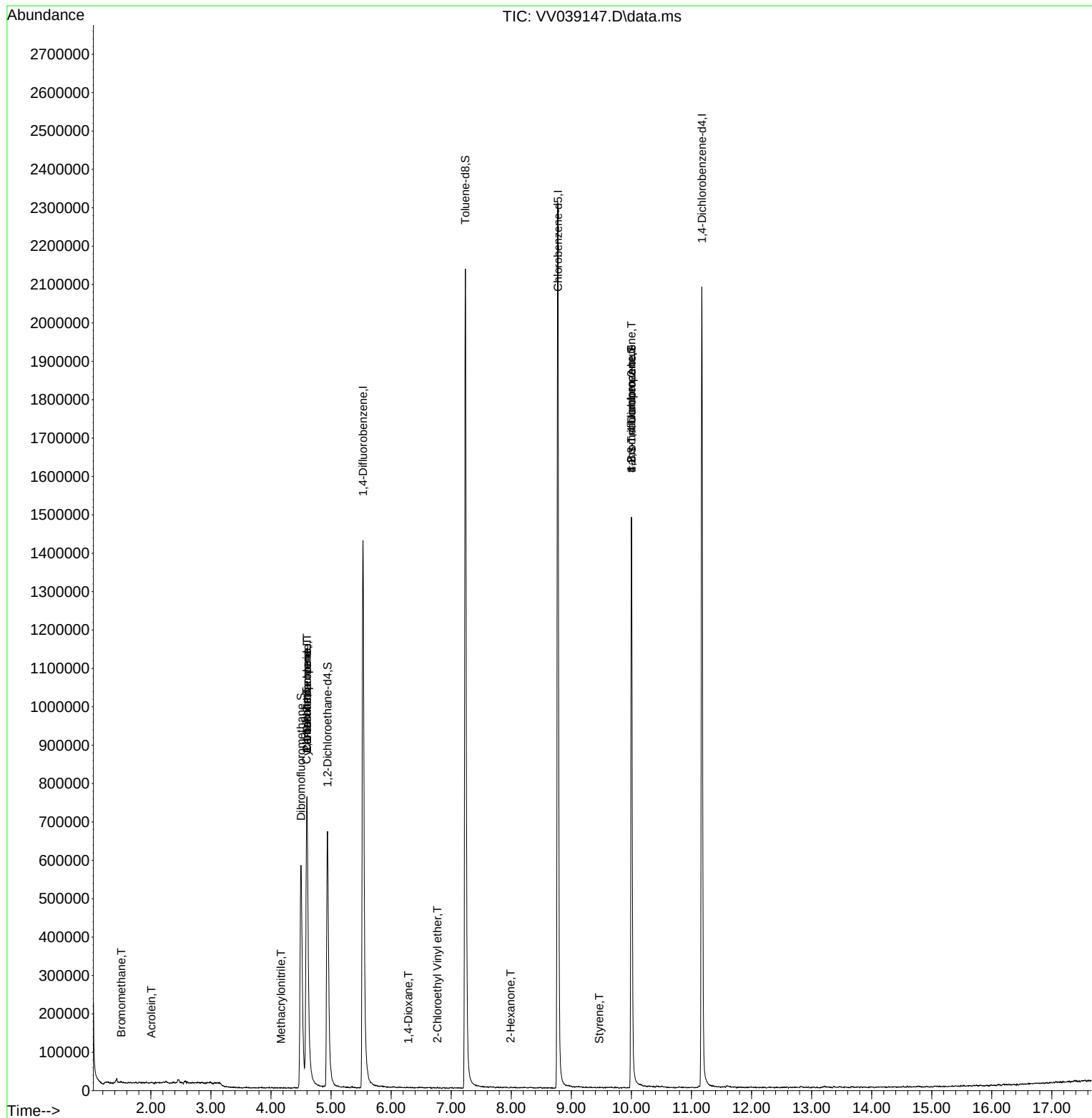
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|--------|-----------|
| -----                         |        |       |          |           |        |           |
| Internal Standards            |        |       |          |           |        |           |
| 1) Pentafluorobenzene         | 4.600  | 168   | 627500   | 50.000    | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene       | 5.532  | 114   | 1356895  | 50.000    | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 8.776  | 117   | 1272637  | 50.000    | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 11.175 | 152   | 538338   | 50.000    | ug/l   | 0.00      |
| System Monitoring Compounds   |        |       |          |           |        |           |
| 33) 1,2-Dichloroethane-d4     | 4.941  | 65    | 578821   | 63.734    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 81 - 118 | Recovery  | =      | 127.460%# |
| 35) Dibromofluoromethane      | 4.500  | 113   | 482503   | 44.232    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 80 - 119 | Recovery  | =      | 88.460%   |
| 50) Toluene-d8                | 7.236  | 98    | 1506826  | 47.033    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 89 - 112 | Recovery  | =      | 94.060%   |
| 62) 4-Bromofluorobenzene      | 10.001 | 95    | 490201   | 37.167    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 85 - 114 | Recovery  | =      | 74.340%#  |
| Target Compounds              |        |       |          |           |        |           |
|                               |        |       |          |           |        | Qvalue    |
| 5) Bromomethane               | 1.510  | 94    | 1890     | 0.263     | ug/l # | 71        |
| 6) Chloroethane               | 1.545  | 64    | 148      | Below Cal | #      | 1         |
| 13) Acrolein                  | 2.008  | 56    | 144      | 0.432     | ug/l # | 15        |
| 16) Acetone                   | 2.124  | 43    | 1343     | Below Cal | #      | 48        |
| 20) Methylene Chloride        | 2.452  | 84    | 5006     | Below Cal | #      | 86        |
| 31) Cyclohexane               | 4.593  | 56    | 16011    | 0.988     | ug/l # | 1         |
| 36) 1,1-Dichloropropene       | 4.600  | 75    | 58712    | 3.560     | ug/l # | 47        |
| 38) Carbon Tetrachloride      | 4.600  | 117   | 71572    | 3.551     | ug/l # | 17        |
| 41) Methacrylonitrile         | 4.169  | 41    | 265      | 1.939     | ug/l # | 28        |
| 49) 1,4-Dioxane               | 6.288  | 88    | 74       | 0.371     | ug/l # | 13        |
| 58) 2-Chloroethyl Vinyl ether | 6.770  | 63    | 81       | 9.631     | ug/l   | 99        |
| 59) 2-Hexanone                | 7.989  | 43    | 404      | 2.353     | ug/l   | 74        |
| 70) Styrene                   | 9.464  | 104   | 45       | 1.563     | ug/l # | 1         |
| 76) 1,2,3-Trichloropropane    | 10.001 | 75    | 245884   | 20.061    | ug/l # | 56        |
| 81) trans-1,4-Dichloro-2-b... | 10.001 | 75    | 245884   | 48.159    | ug/l # | 13        |
| 92) 1,2-Dibromo-3-Chloropr... | 12.333 | 75    | 95       | Below Cal | #      | 27        |
| -----                         |        |       |          |           |        |           |

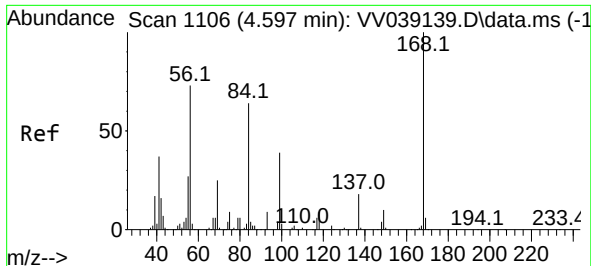
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VV0924MBL01  
Misc : 5.00g/10.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VV0924MBL01

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\82V092225W.M  
Quant Title : SW846 8260  
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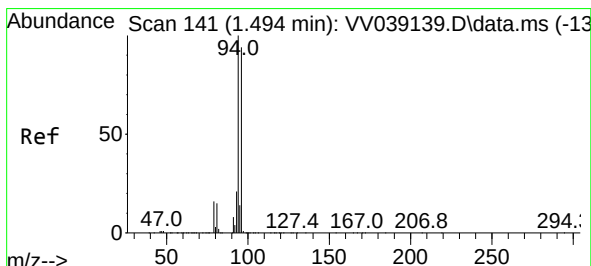
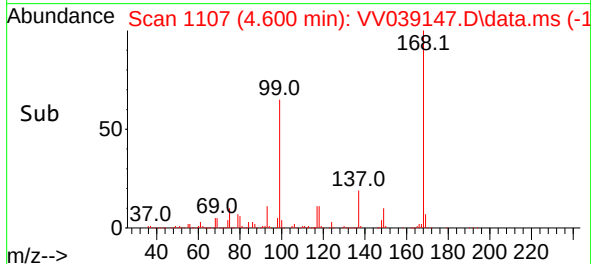
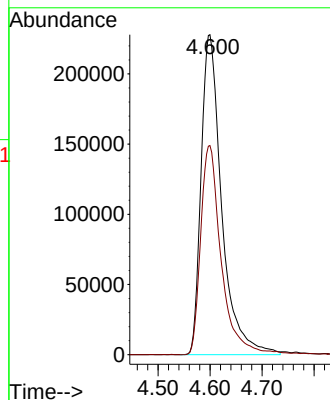
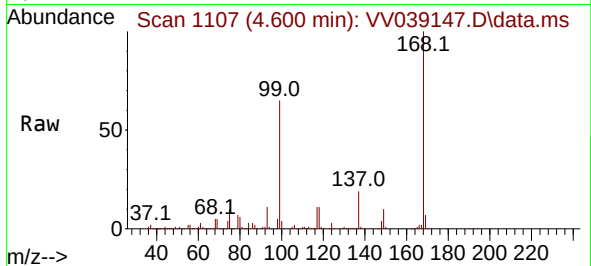




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.600 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

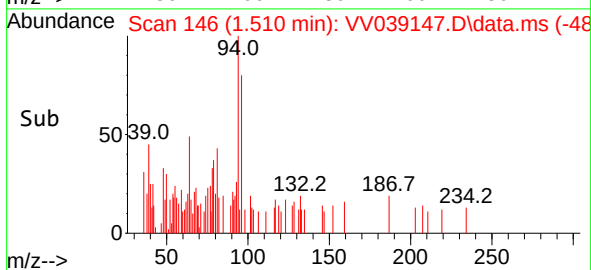
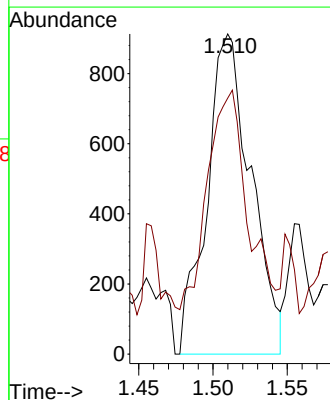
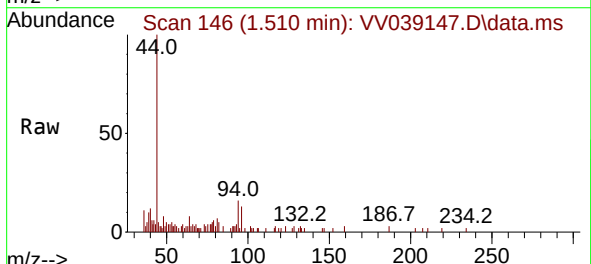
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV0924MBL01

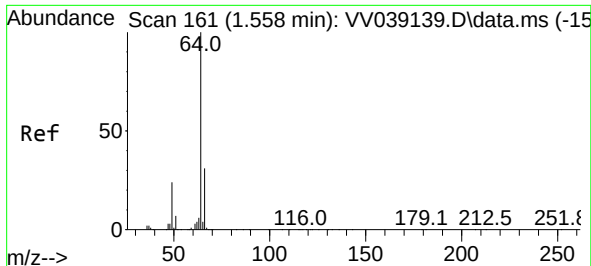
Tgt Ion:168 Resp: 627500  
Ion Ratio Lower Upper  
168 100  
99 65.4 49.6 74.4



#5  
Bromomethane  
Concen: 0.263 ug/l  
RT: 1.510 min Scan# 146  
Delta R.T. 0.016 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

Tgt Ion: 94 Resp: 1890  
Ion Ratio Lower Upper  
94 100  
96 66.0 74.9 112.3#

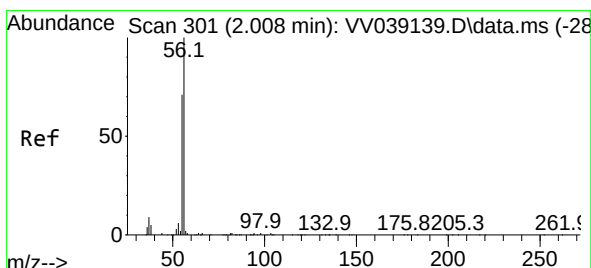
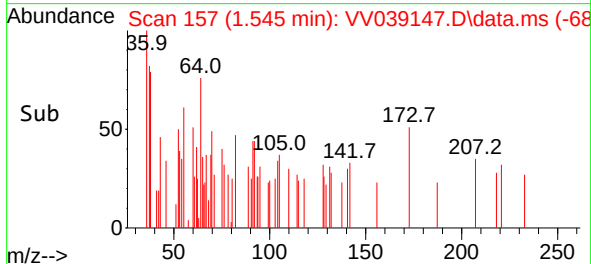
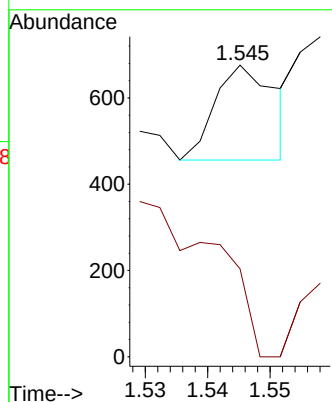
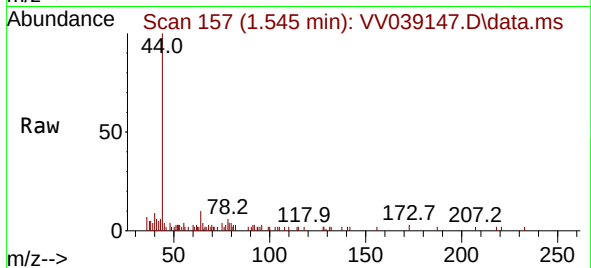




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.545 min Scan# 11  
Delta R.T. -0.013 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

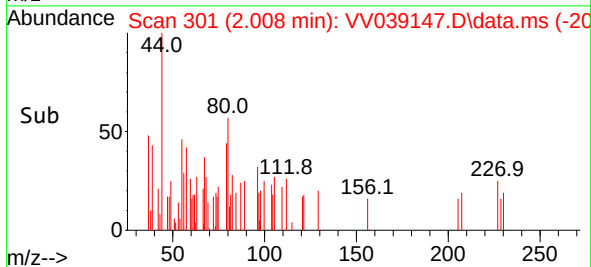
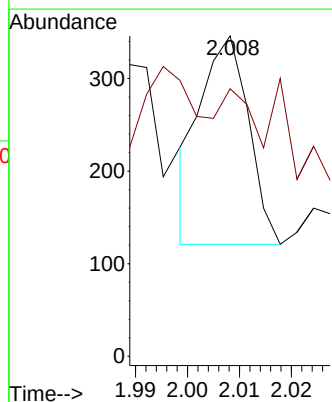
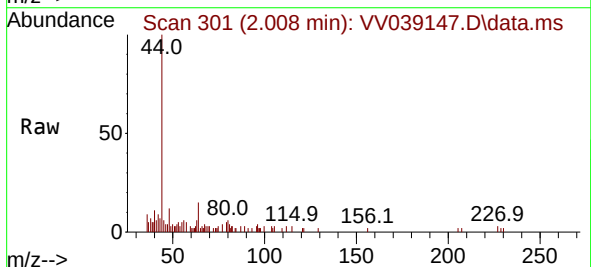
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV0924MBL01

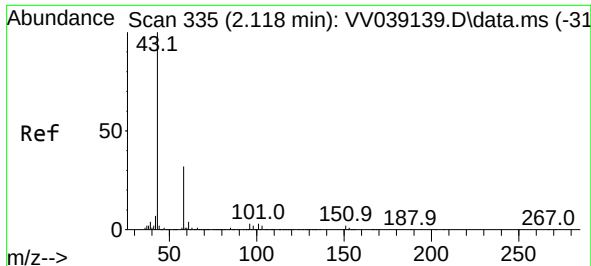
Tgt Ion: 64 Resp: 148  
Ion Ratio Lower Upper  
64 100  
66 92.7 24.6 36.8#



#13  
Acrolein  
Concen: 0.432 ug/l  
RT: 2.008 min Scan# 301  
Delta R.T. 0.000 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

Tgt Ion: 56 Resp: 144  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.2 84.4#





#16

Acetone

Concen: Below Cal

RT: 2.124 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV039147.D

Acq: 24 Sep 2025 12:08

Instrument :

MSVOA\_V

ClientSampleId :

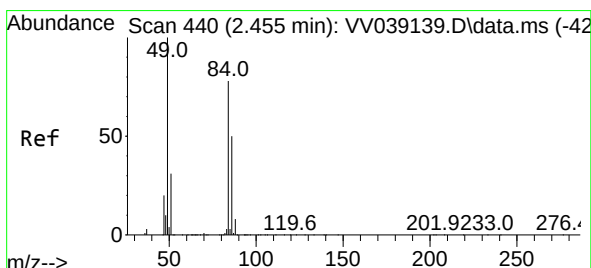
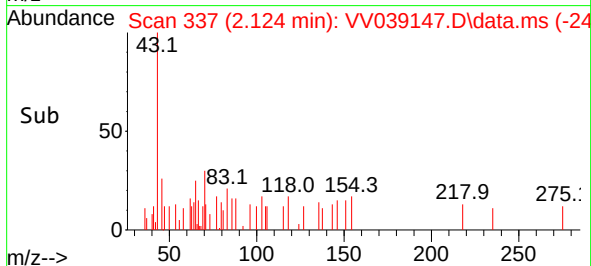
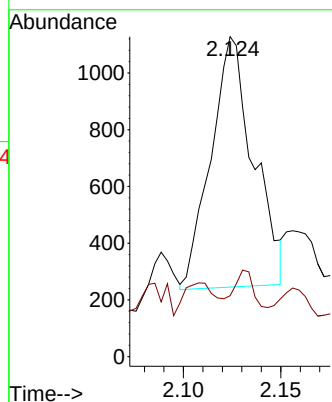
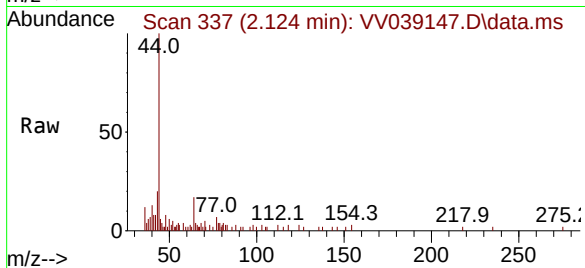
VV0924MBL01

Tgt Ion: 43 Resp: 1343

Ion Ratio Lower Upper

43 100

58 3.0 25.8 38.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.452 min Scan# 439

Delta R.T. -0.003 min

Lab File: VV039147.D

Acq: 24 Sep 2025 12:08

Tgt Ion: 84 Resp: 5006

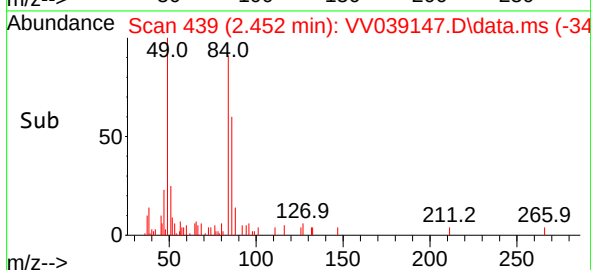
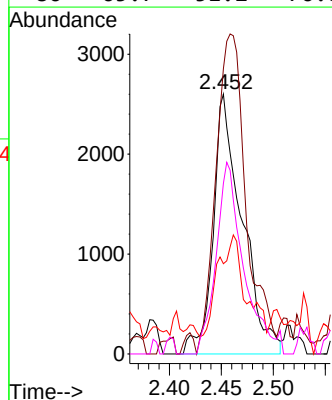
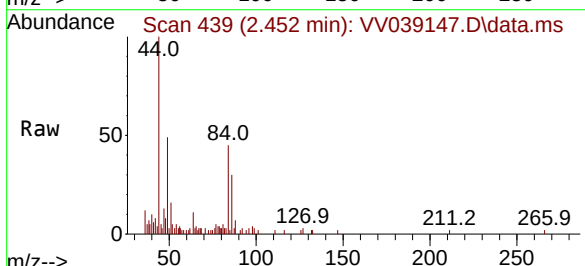
Ion Ratio Lower Upper

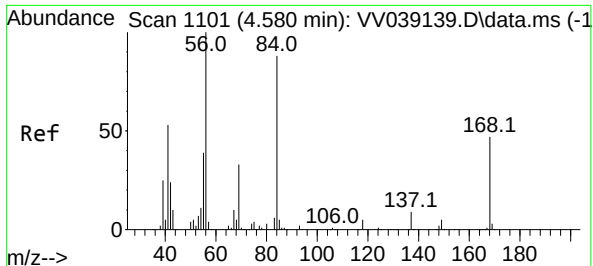
84 100

49 109.8 102.8 154.2

51 25.1 31.9 47.9#

86 65.7 51.2 76.8

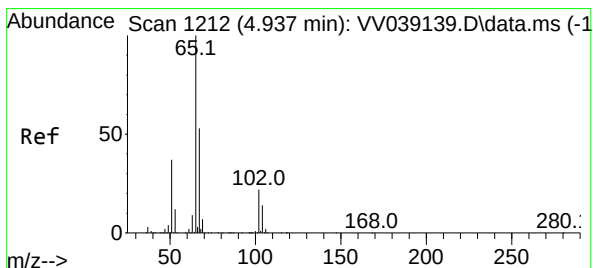
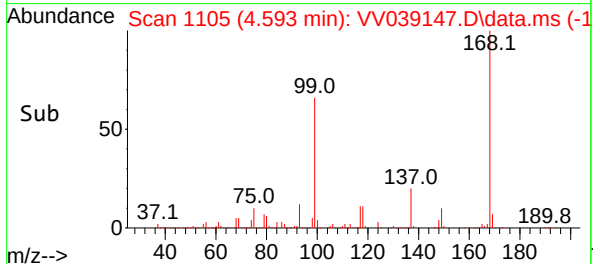
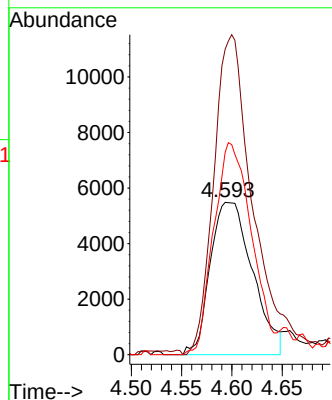
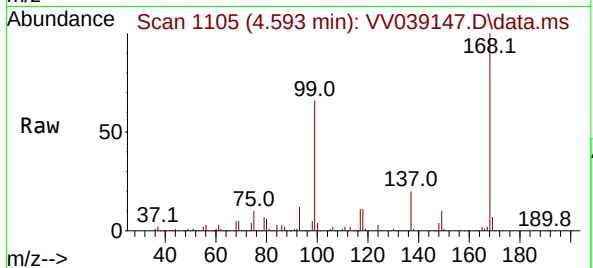




#31  
Cyclohexane  
Concen: 0.988 ug/l  
RT: 4.593 min Scan# 1105  
Delta R.T. 0.013 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

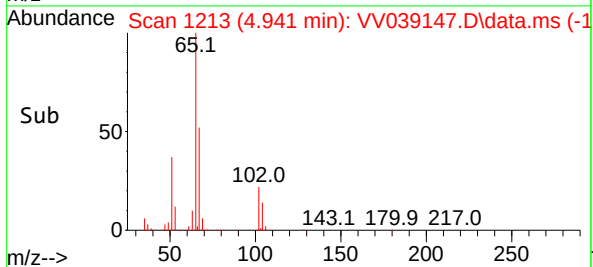
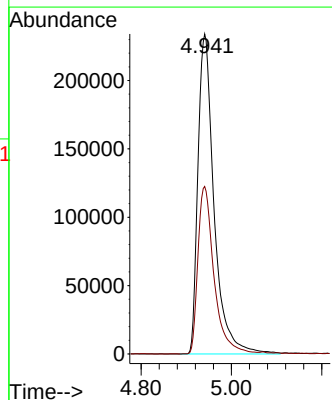
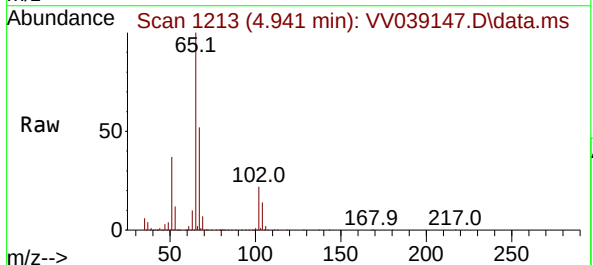
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV0924MBL01

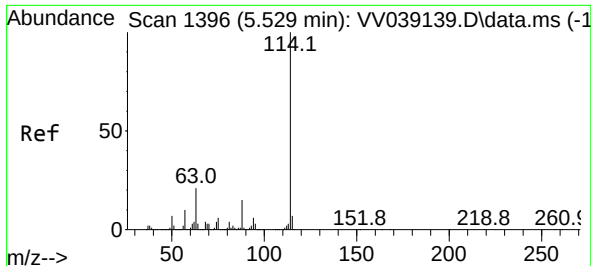
Tgt Ion: 56 Resp: 16011  
Ion Ratio Lower Upper  
56 100  
69 197.7 26.2 39.2#  
84 132.8 70.3 105.5#



#33  
1,2-Dichloroethane-d4  
Concen: 63.734 ug/l  
RT: 4.941 min Scan# 1213  
Delta R.T. 0.003 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

Tgt Ion: 65 Resp: 578821  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV039147.D

Acq: 24 Sep 2025 12:08

Instrument :

MSVOA\_V

ClientSampleId :

VV0924MBL01

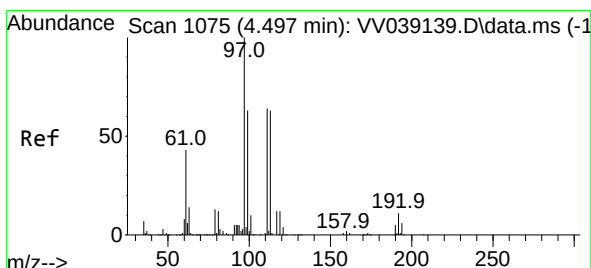
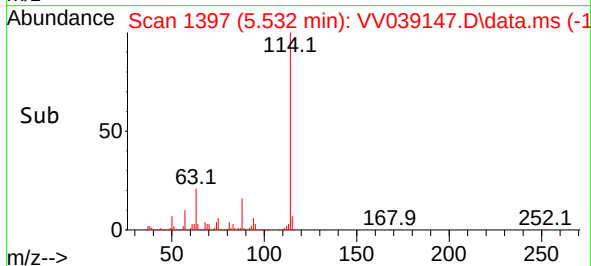
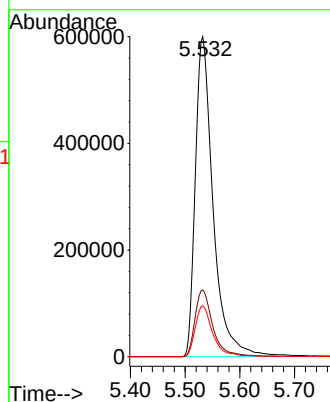
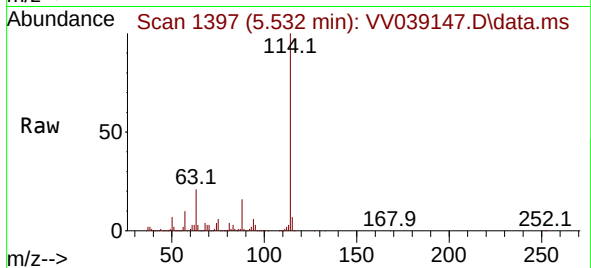
Tgt Ion:114 Resp: 1356895

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.6

88 15.9 0.0 30.8



#35

Dibromofluoromethane

Concen: 44.232 ug/l

RT: 4.500 min Scan# 1076

Delta R.T. 0.003 min

Lab File: VV039147.D

Acq: 24 Sep 2025 12:08

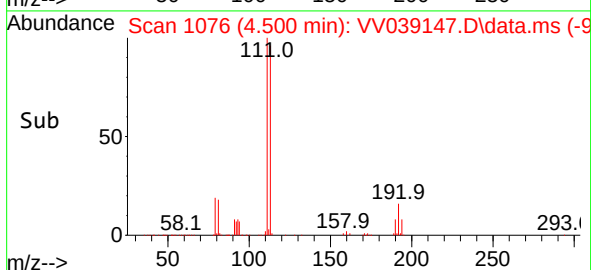
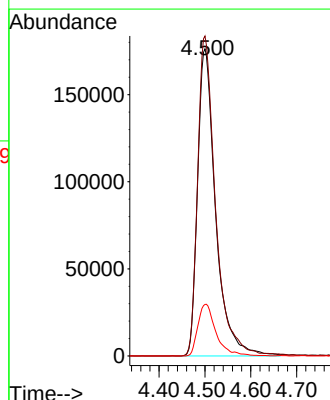
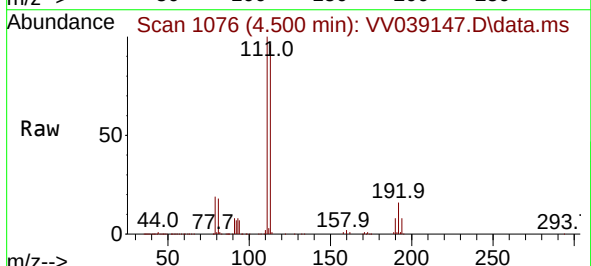
Tgt Ion:113 Resp: 482503

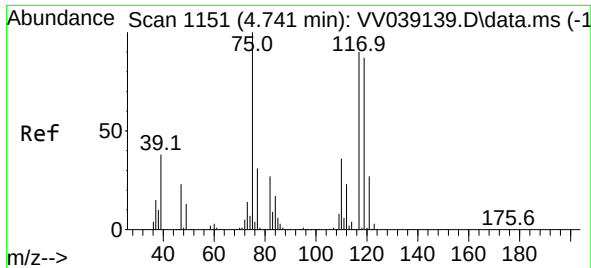
Ion Ratio Lower Upper

113 100

111 103.7 82.4 123.6

192 16.9 13.8 20.8

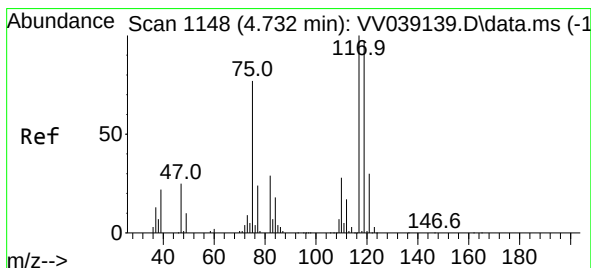
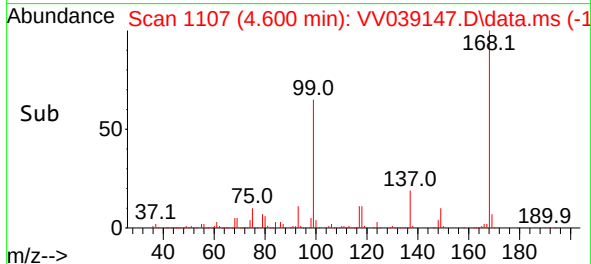
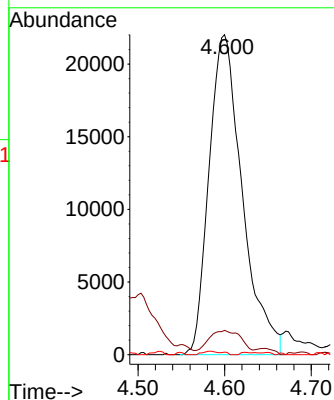
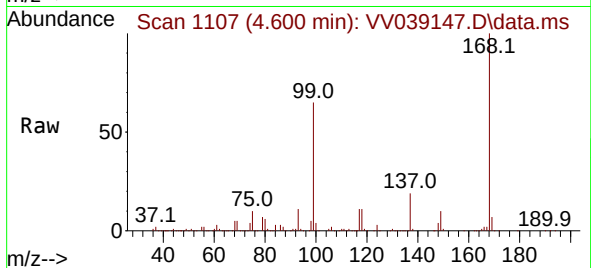




#36  
 1,1-Dichloropropene  
 Concen: 3.560 ug/l  
 RT: 4.600 min Scan# 1107  
 Delta R.T. -0.141 min  
 Lab File: VV039147.D  
 Acq: 24 Sep 2025 12:08

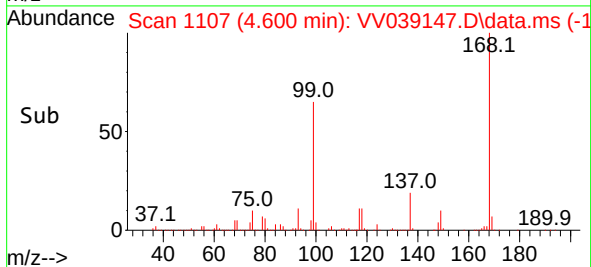
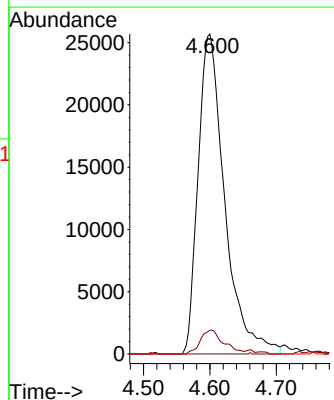
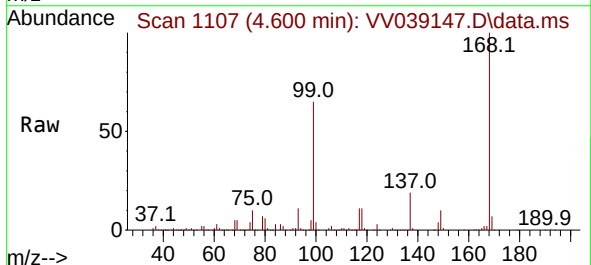
Instrument :  
 MSVOA\_V  
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 VV0924MBL01

Tgt Ion: 75 Resp: 58712  
 Ion Ratio Lower Upper  
 75 100  
 110 6.0 18.1 54.1#  
 77 0.5 24.8 37.2#

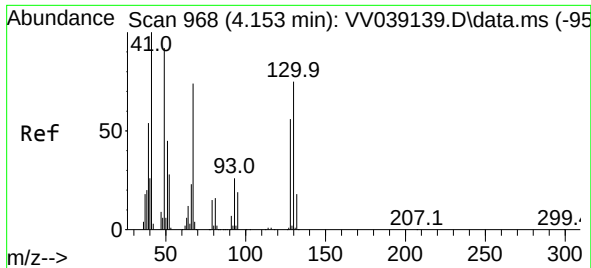


#38  
 Carbon Tetrachloride  
 Concen: 3.551 ug/l  
 RT: 4.600 min Scan# 1107  
 Delta R.T. -0.132 min  
 Lab File: VV039147.D  
 Acq: 24 Sep 2025 12:08

Tgt Ion: 117 Resp: 71572  
 Ion Ratio Lower Upper  
 117 100  
 119 7.3 77.2 115.8#  
 121 0.0 24.2 36.2#



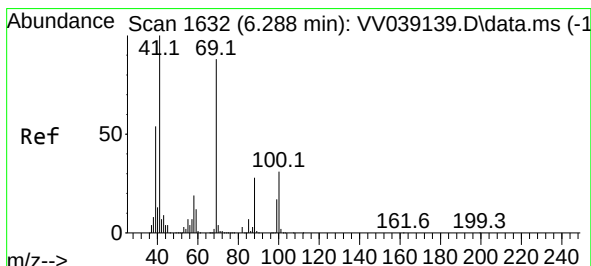
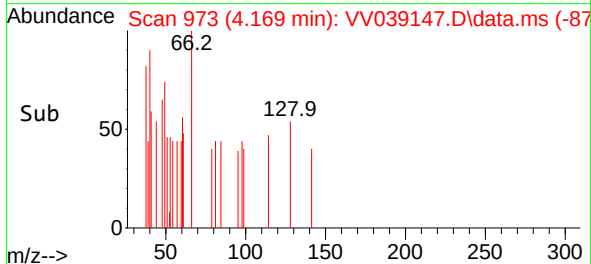
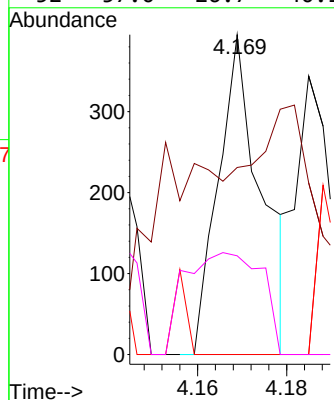
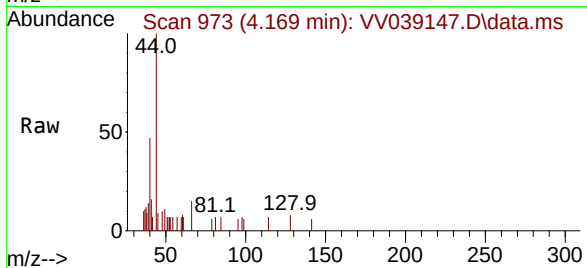




#41  
Methacrylonitrile  
Concen: 1.939 ug/l  
RT: 4.169 min Scan# 91  
Delta R.T. 0.016 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

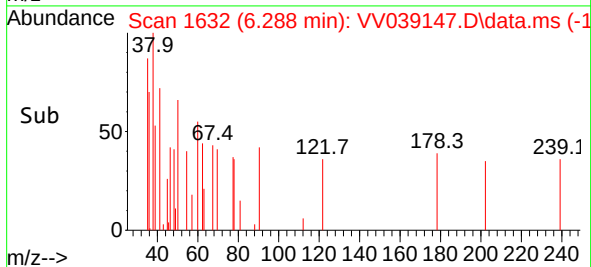
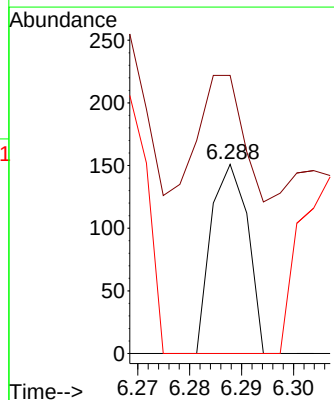
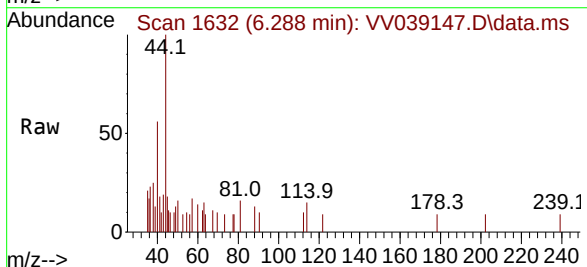
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV0924MBL01

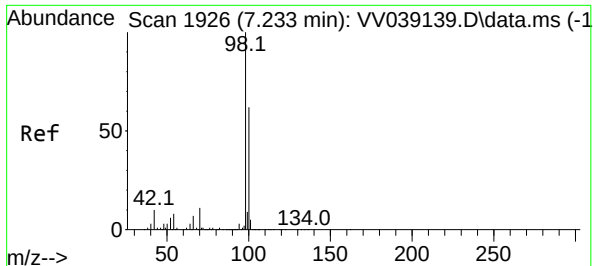
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 265    |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 103.8 | 42.2  | 63.2#  |
| 67       | 7.5   | 67.9  | 101.9# |
| 52       | 57.0  | 26.7  | 40.1#  |



#49  
1,4-Dioxane  
Concen: 0.371 ug/l  
RT: 6.288 min Scan# 1632  
Delta R.T. 0.000 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 74    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 83.8  | 25.1  | 37.7# |
| 58       | 0.0   | 53.6  | 80.4# |





#50

Toluene-d8

Concen: 47.033 ug/l

RT: 7.236 min Scan# 1926

Delta R.T. 0.003 min

Lab File: VV039147.D

Acq: 24 Sep 2025 12:08

Instrument :

MSVOA\_V

ClientSampleId :

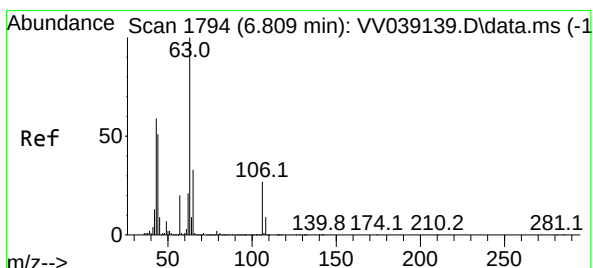
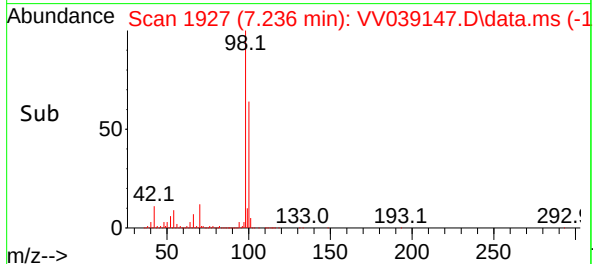
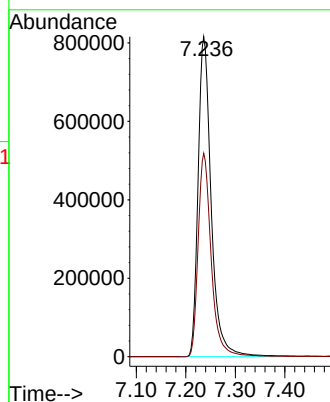
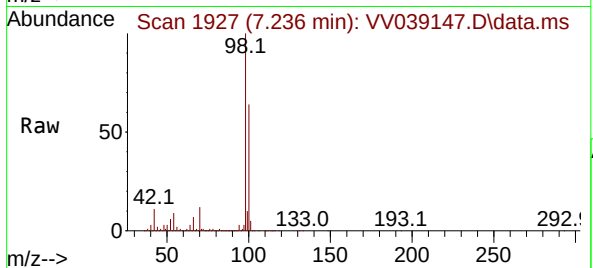
VV0924MBL01

Tgt Ion: 98 Resp: 1506826

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.631 ug/l

RT: 6.770 min Scan# 1782

Delta R.T. -0.039 min

Lab File: VV039147.D

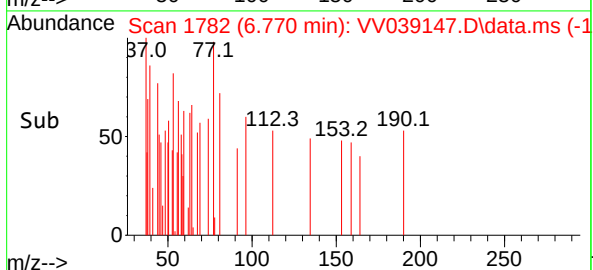
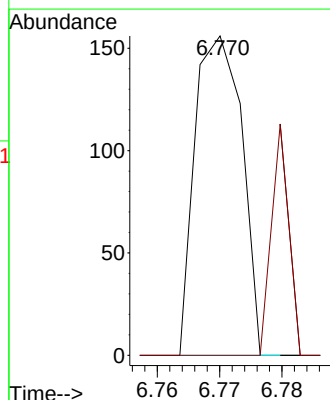
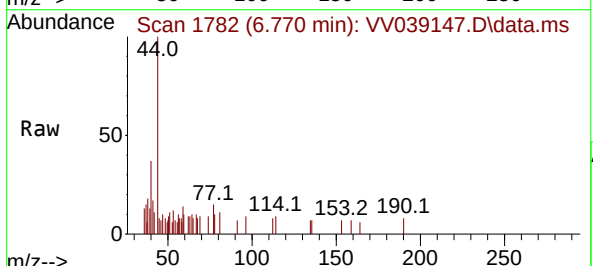
Acq: 24 Sep 2025 12:08

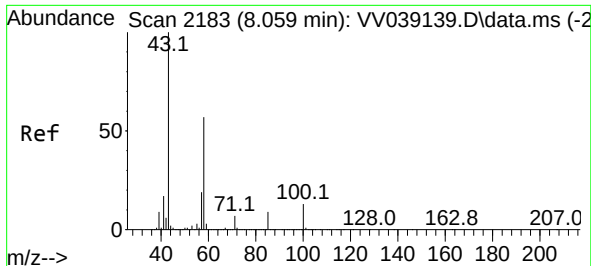
Tgt Ion: 63 Resp: 81

Ion Ratio Lower Upper

63 100

106 27.2 22.1 33.1

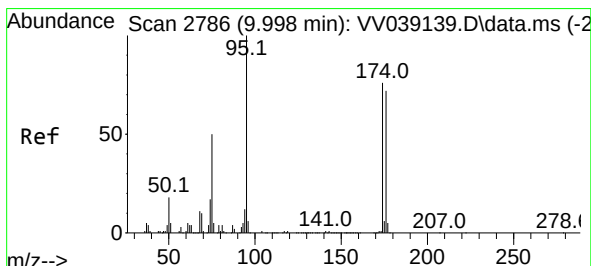
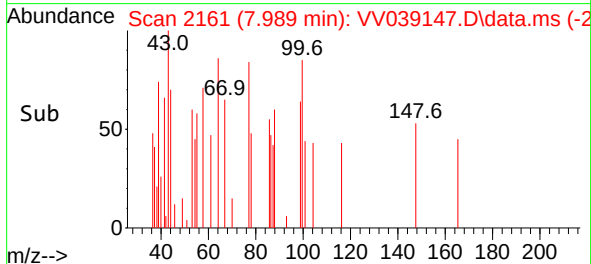
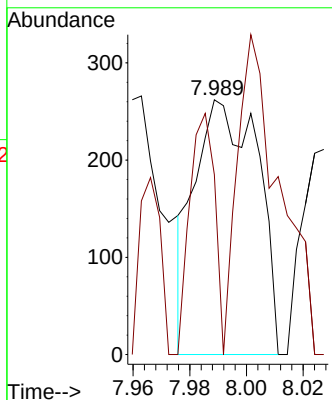
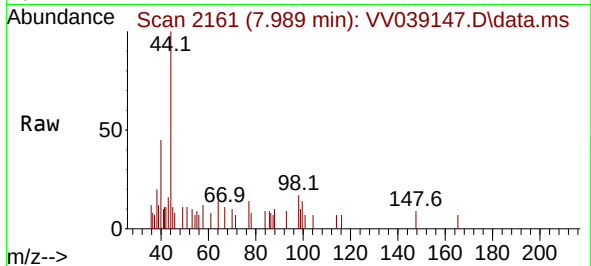




#59  
2-Hexanone  
Concen: 2.353 ug/l  
RT: 7.989 min Scan# 2183  
Delta R.T. -0.070 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

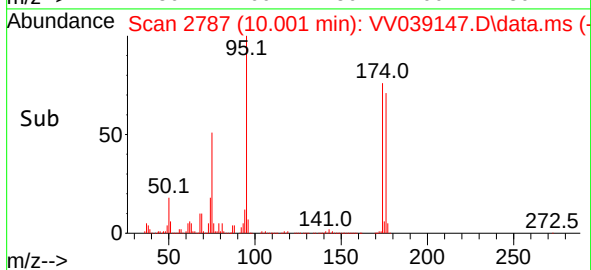
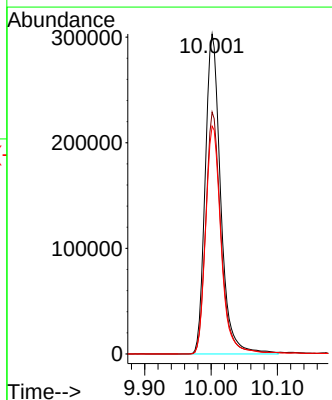
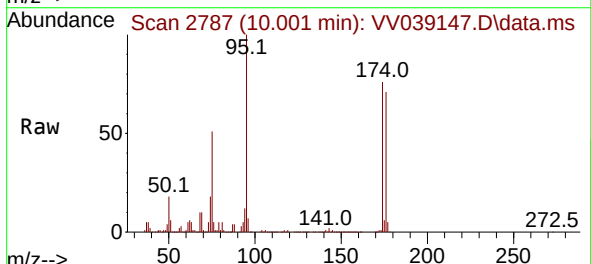
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV0924MBL01

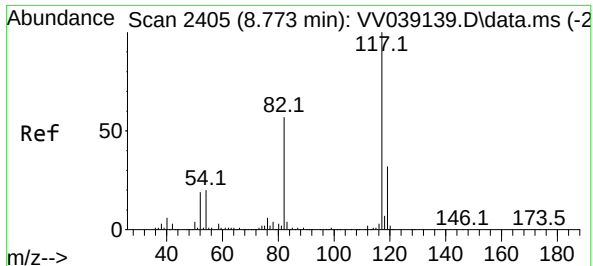
Tgt Ion: 43 Resp: 404  
Ion Ratio Lower Upper  
43 100  
58 37.6 28.3 85.0



#62  
4-Bromofluorobenzene  
Concen: 37.167 ug/l  
RT: 10.001 min Scan# 2787  
Delta R.T. 0.003 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

Tgt Ion: 95 Resp: 490201  
Ion Ratio Lower Upper  
95 100  
174 74.9 0.0 150.4  
176 70.9 0.0 144.2

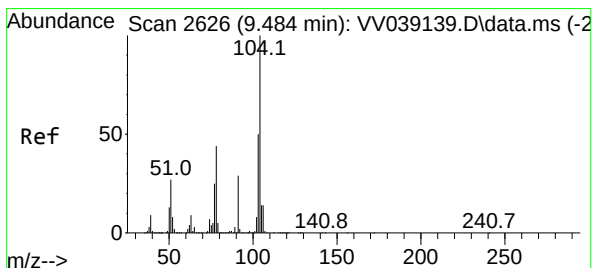
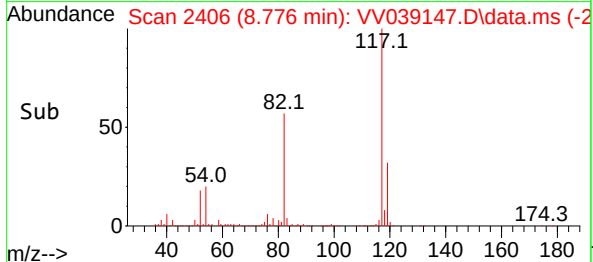
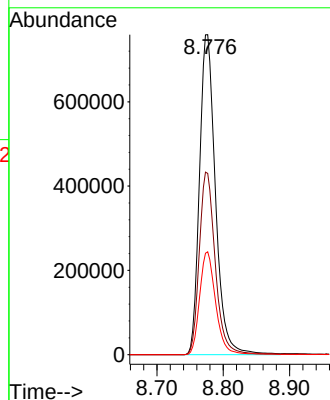
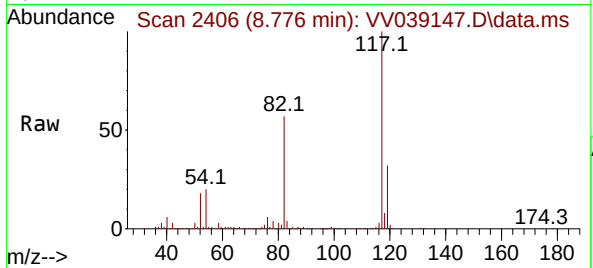




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 8.776 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

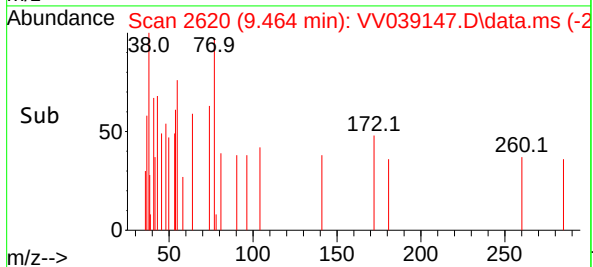
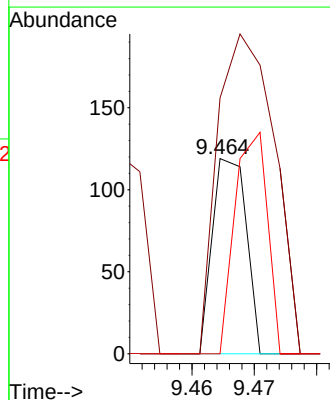
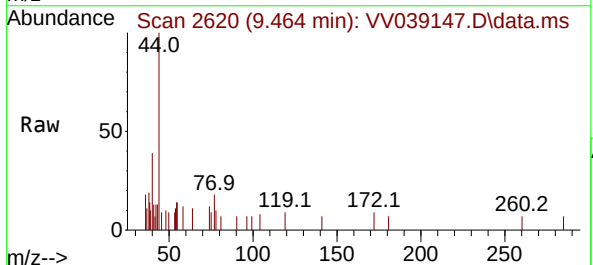
Instrument :  
MSVOA\_V  
ClientSampleId :  
VV0924MBL01

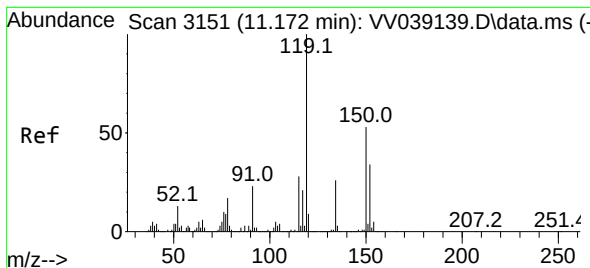
Tgt Ion:117 Resp: 1272637  
Ion Ratio Lower Upper  
117 100  
82 56.6 45.4 68.2  
119 32.2 25.6 38.4



#70  
Styrene  
Concen: 1.563 ug/l  
RT: 9.464 min Scan# 2620  
Delta R.T. -0.020 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

Tgt Ion:104 Resp: 45  
Ion Ratio Lower Upper  
104 100  
78 275.6 39.8 59.6#  
103 108.9 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: VV039147.D

Acq: 24 Sep 2025 12:08

Instrument :

MSVOA\_V

ClientSampleId :

VV0924MBL01

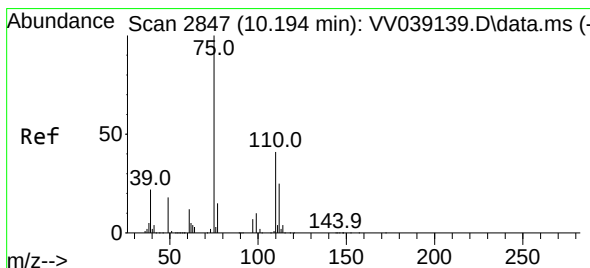
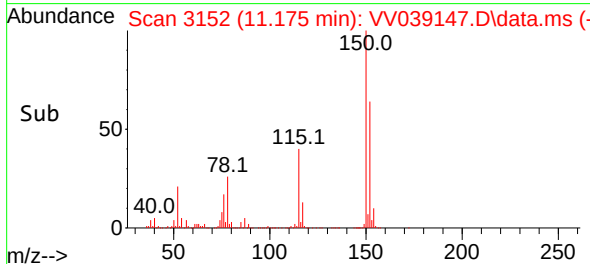
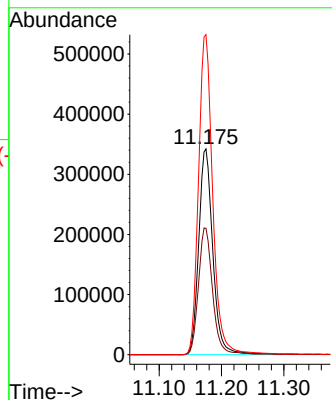
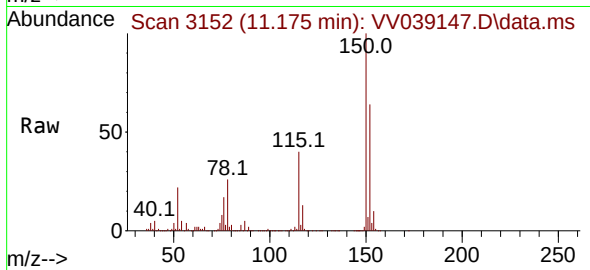
Tgt Ion:152 Resp: 538338

Ion Ratio Lower Upper

152 100

115 61.6 44.8 134.4

150 156.8 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 20.061 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039147.D

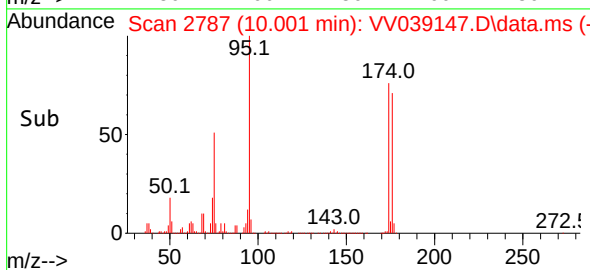
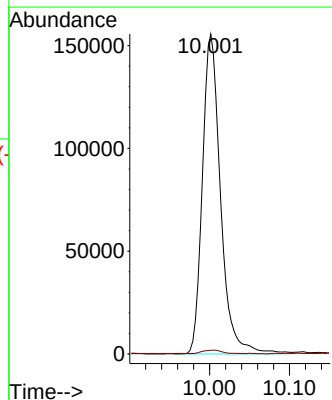
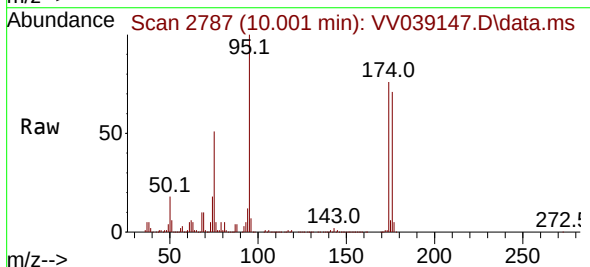
Acq: 24 Sep 2025 12:08

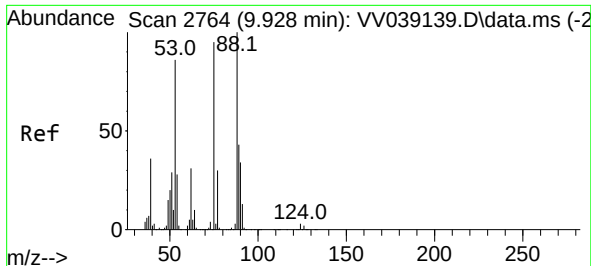
Tgt Ion: 75 Resp: 245884

Ion Ratio Lower Upper

75 100

77 1.2 11.3 33.8#

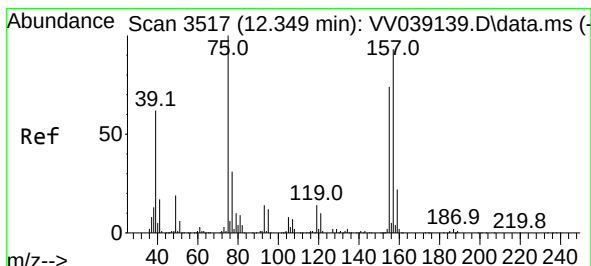
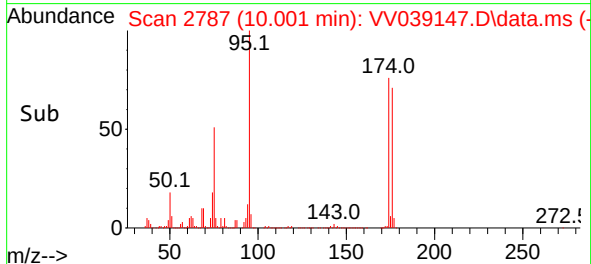
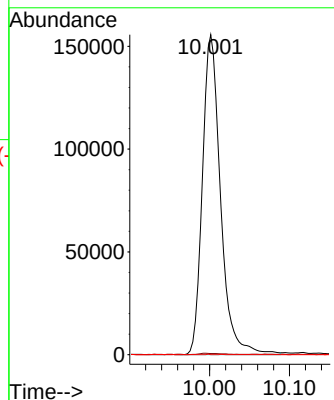
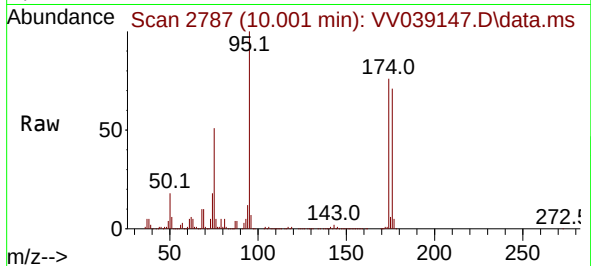




#81  
trans-1,4-Dichloro-2-butene  
Concen: 48.159 ug/l  
RT: 10.001 min Scan# 21  
Delta R.T. 0.074 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

Instrument :  
MSVOA\_V  
ClientSampleId :  
VV0924MBL01

Tgt Ion: 75 Resp: 245884  
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: 12.333 min Scan# 3512  
Delta R.T. -0.016 min  
Lab File: VV039147.D  
Acq: 24 Sep 2025 12:08

Tgt Ion: 75 Resp: 95  
Ion Ratio Lower Upper  
75 100  
155 43.2 38.6 115.8  
157 0.0 49.5 148.3#

