

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV092425\  
 Data File : VV039162.D  
 Acq On : 24 Sep 2025 18:52  
 Operator : SY/MD  
 Sample : Q3164-03  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DA-3

Quant Time: Sep 25 08:22:22 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

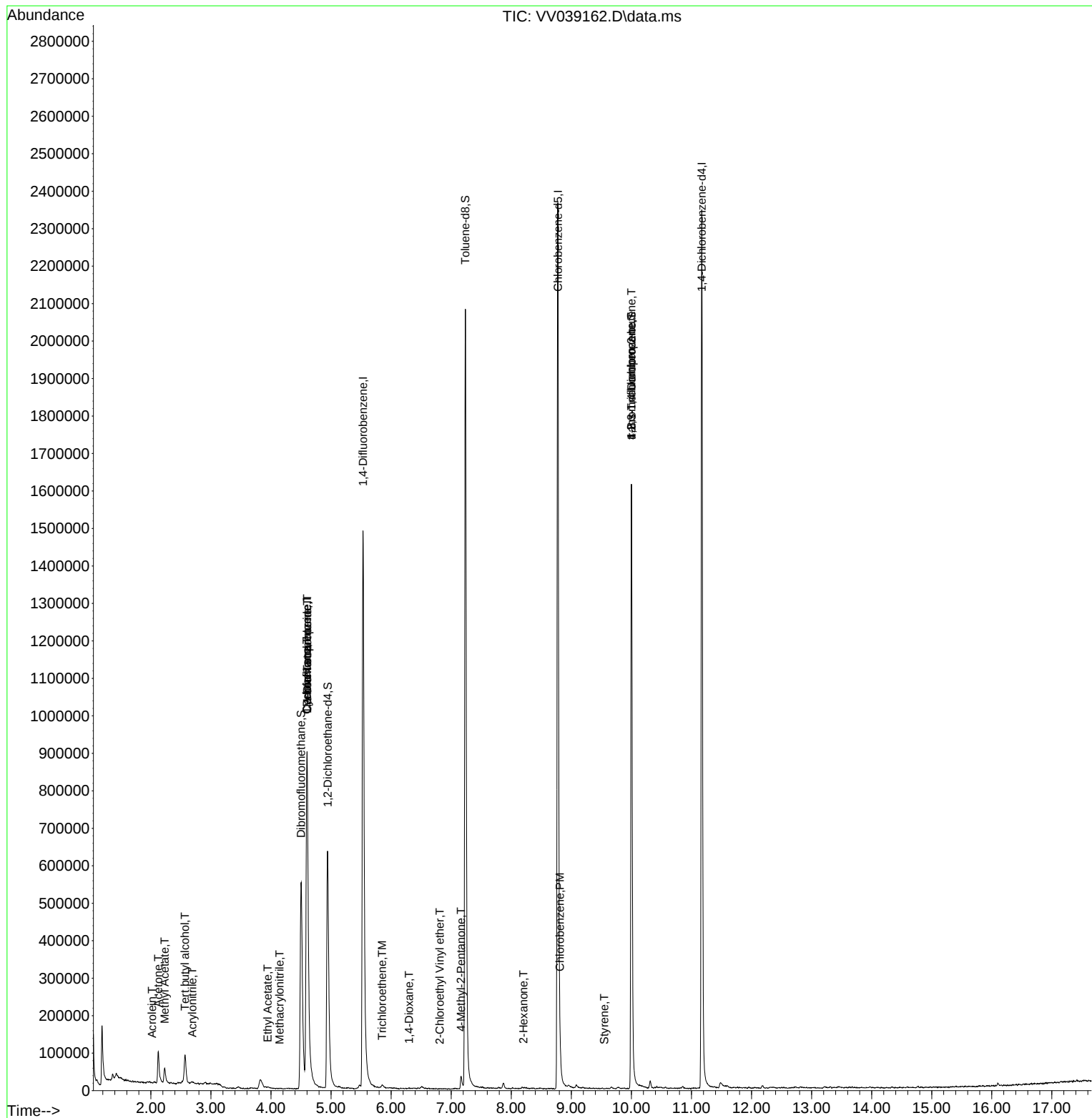
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 4.600  | 168   | 755839   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 5.532  | 114   | 1427337  | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 8.776  | 117   | 1322483  | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.172 | 152   | 607726   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 4.944  | 65    | 559230   | 51.121    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 81 - 118 | Recovery  | =      | 102.240% |
| 35) Dibromofluoromethane      | 4.503  | 113   | 458688   | 39.974    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 119 | Recovery  | =      | 79.940%# |
| 50) Toluene-d8                | 7.236  | 98    | 1484627  | 44.053    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 89 - 112 | Recovery  | =      | 88.100%# |
| 62) 4-Bromofluorobenzene      | 10.001 | 95    | 549383   | 39.599    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 85 - 114 | Recovery  | =      | 79.200%# |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 6) Chloroethane               | 1.609  | 64    | 1013     | Below Cal | #      | 46       |
| 11) Tert butyl alcohol        | 2.568  | 59    | 53242    | 23.028    | ug/l # | 90       |
| 13) Acrolein                  | 2.018  | 56    | 577      | 1.438     | ug/l   | 100      |
| 15) Acrylonitrile             | 2.690  | 53    | 2380     | 0.321     | ug/l # | 20       |
| 16) Acetone                   | 2.124  | 43    | 107662   | 10.872    | ug/l   | 96       |
| 18) Methyl Acetate            | 2.230  | 43    | 11085    | 0.684     | ug/l # | 54       |
| 20) Methylene Chloride        | 2.458  | 84    | 1321     | Below Cal | #      | 68       |
| 31) Cyclohexane               | 4.596  | 56    | 18553    | 0.951     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 4.603  | 75    | 63540    | 3.663     | ug/l # | 49       |
| 37) Ethyl Acetate             | 3.944  | 43    | 4361     | 0.207     | ug/l # | 72       |
| 38) Carbon Tetrachloride      | 4.603  | 117   | 85663    | 4.040     | ug/l # | 17       |
| 41) Methacrylonitrile         | 4.143  | 41    | 440      | 1.955     | ug/l # | 43       |
| 44) Trichloroethene           | 5.850  | 130   | 2791     | 0.214     | ug/l   | 74       |
| 49) 1,4-Dioxane               | 6.297  | 88    | 72       | 0.343     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.162  | 43    | 24286    | 1.286     | ug/l   | 92       |
| 58) 2-Chloroethyl Vinyl ether | 6.809  | 63    | 42       | 9.627     | ug/l # | 1        |
| 59) 2-Hexanone                | 8.204  | 43    | 428      | 2.353     | ug/l   | 78       |
| 65) Chlorobenzene             | 8.808  | 112   | 45385    | 1.232     | ug/l   | 100      |
| 70) Styrene                   | 9.548  | 104   | 53       | 1.563     | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 10.001 | 75    | 278138   | 20.101    | ug/l # | 56       |
| 81) trans-1,4-Dichloro-2-b... | 10.001 | 75    | 278138   | 48.257    | ug/l # | 13       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.326 | 75    | 78       | Below Cal | #      | 5        |

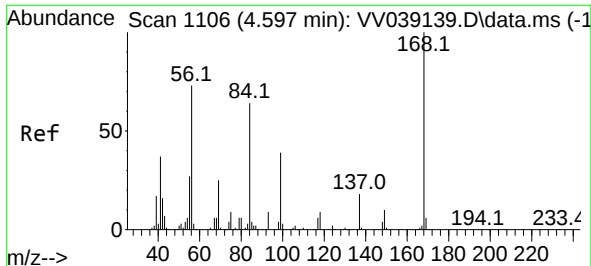
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Sep 24 08:08:08 2025  
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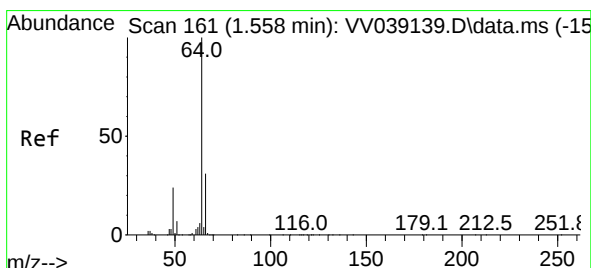
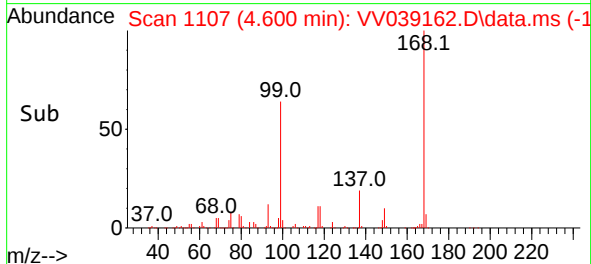
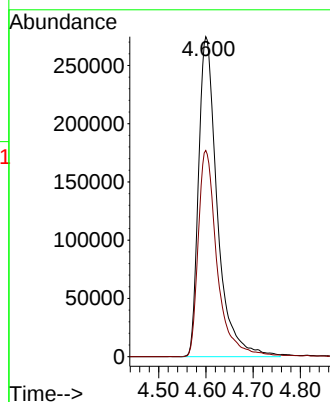
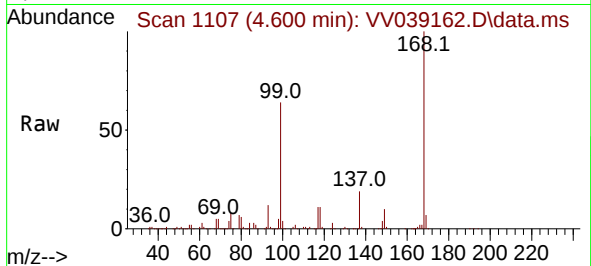




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 4.600 min Scan# 1106  
Delta R.T. 0.003 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

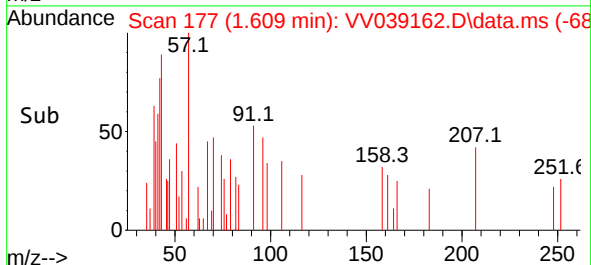
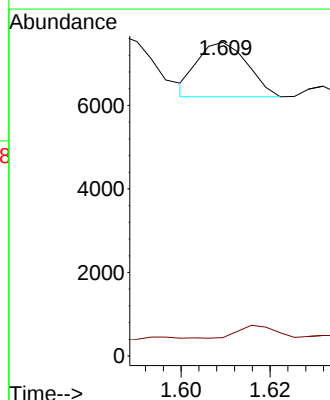
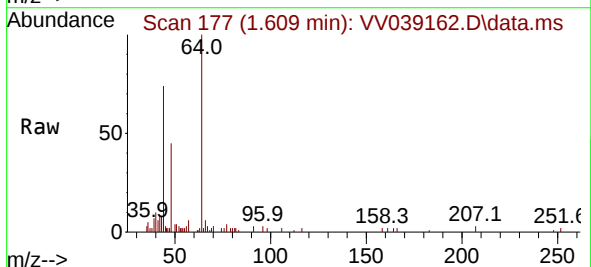
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

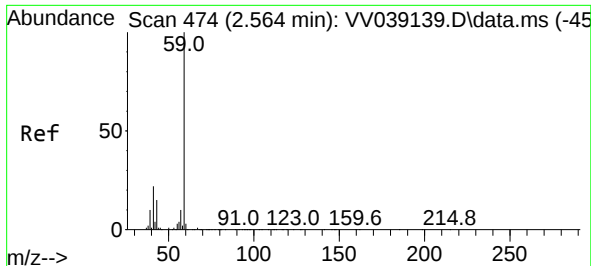
Tgt Ion:168 Resp: 755839  
Ion Ratio Lower Upper  
168 100  
99 64.4 49.6 74.4



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.609 min Scan# 177  
Delta R.T. 0.051 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 64 Resp: 1013  
Ion Ratio Lower Upper  
64 100  
66 1.3 24.6 36.8#

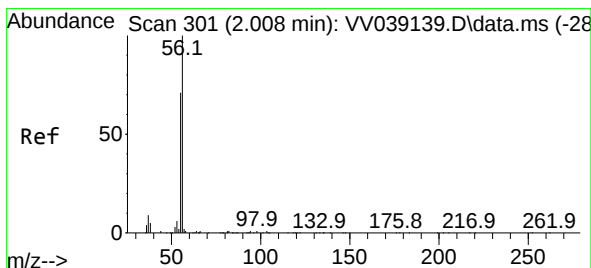
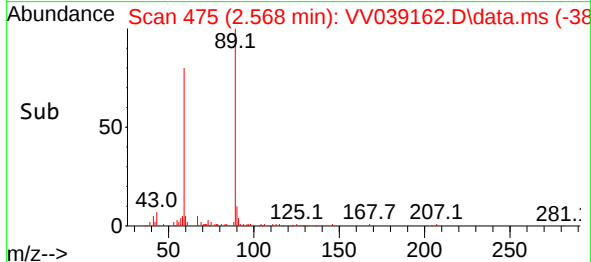
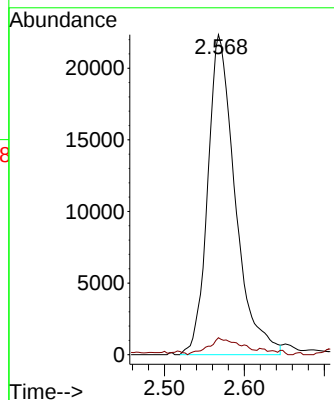
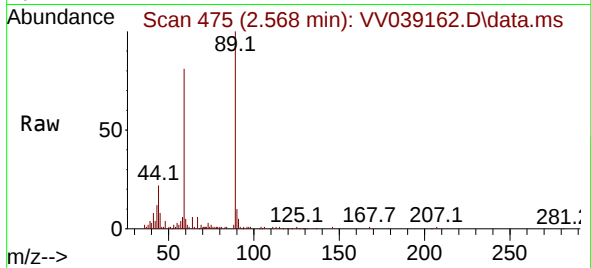




#11  
Tert butyl alcohol  
Concen: 23.028 ug/l  
RT: 2.568 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

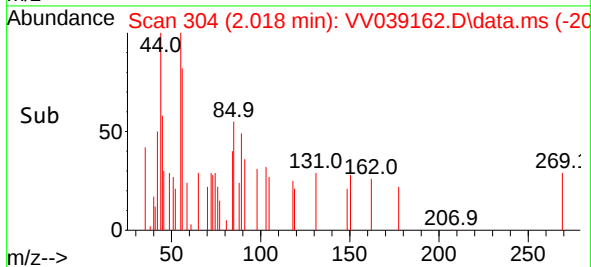
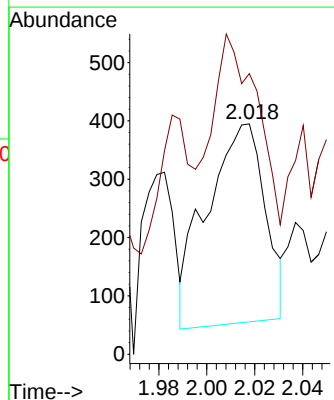
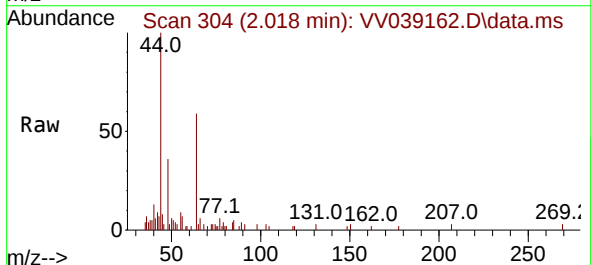
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

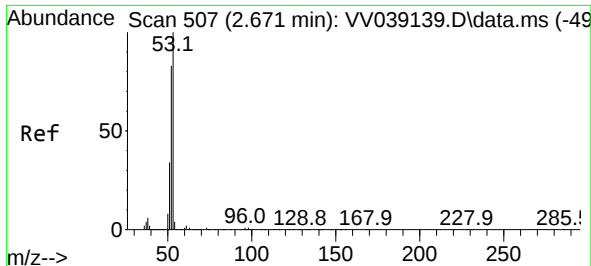
Tgt Ion: 59 Resp: 53242  
Ion Ratio Lower Upper  
59 100  
57 6.0 7.8 11.8#



#13  
Acrolein  
Concen: 1.438 ug/l  
RT: 2.018 min Scan# 304  
Delta R.T. 0.010 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 56 Resp: 577  
Ion Ratio Lower Upper  
56 100  
55 70.5 56.2 84.4

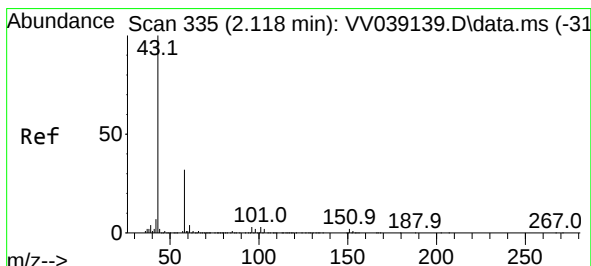
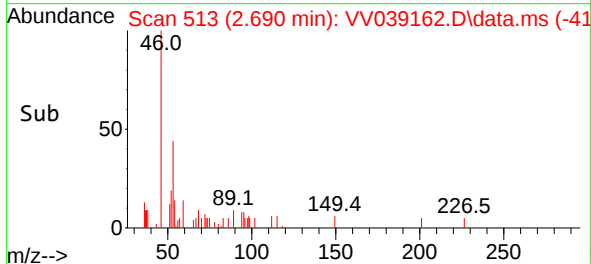
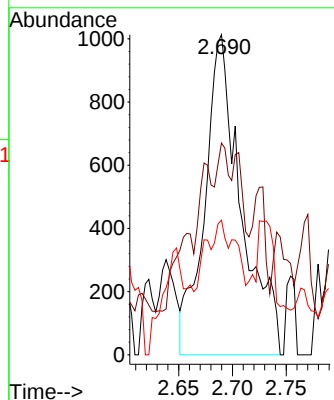
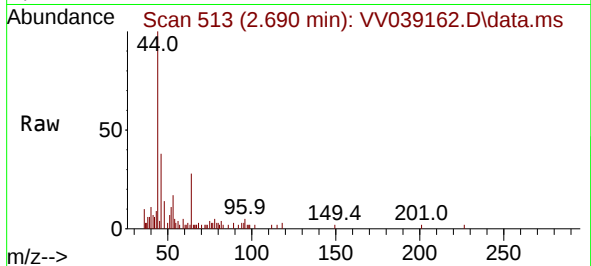




#15  
Acrylonitrile  
Concen: 0.321 ug/l  
RT: 2.690 min Scan# 51  
Delta R.T. 0.019 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

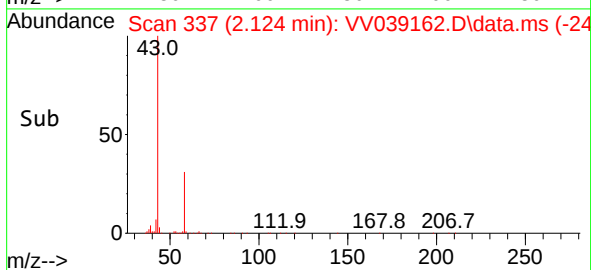
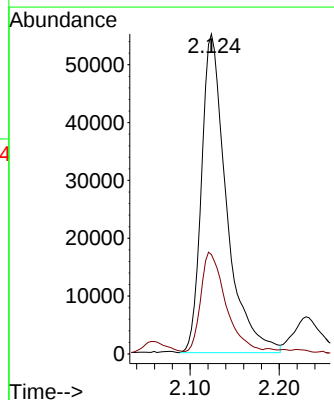
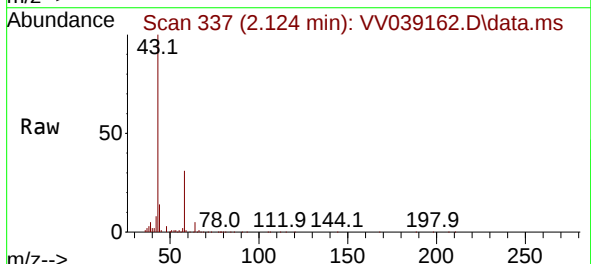
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MSVOA\_V  
ClientSampleId :  
DA-3

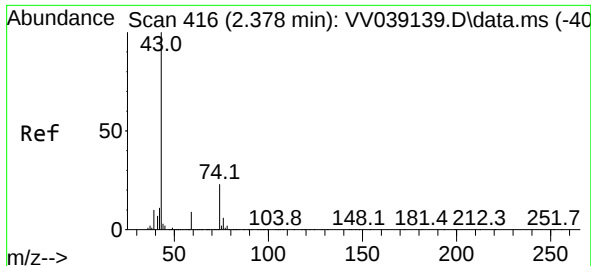
| Tgt Ion: | 53    | Resp: | 2380  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 3.3   | 66.1  | 99.1# |
| 51       | 0.0   | 28.5  | 42.7# |



#16  
Acetone  
Concen: 10.872 ug/l  
RT: 2.124 min Scan# 337  
Delta R.T. 0.006 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

| Tgt Ion: | 43    | Resp: | 107662 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 30.2  | 25.8  | 38.6   |

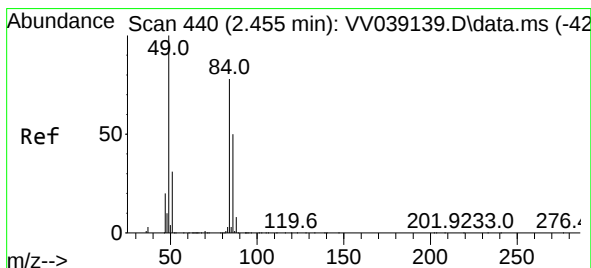
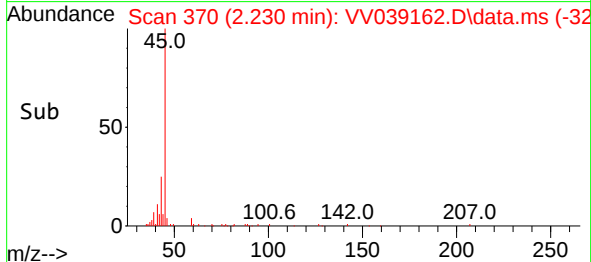
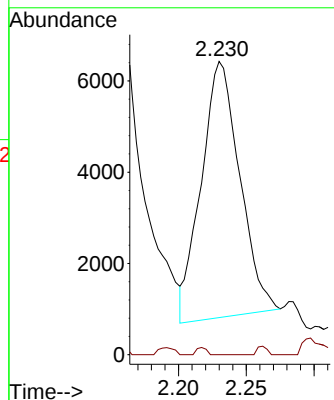
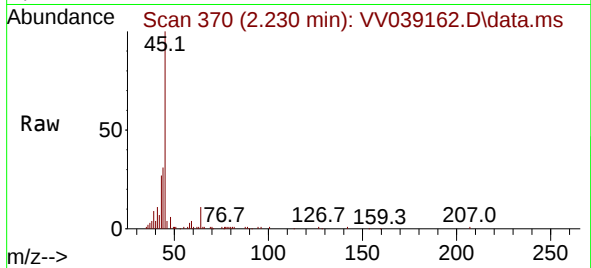




#18  
Methyl Acetate  
Concen: 0.684 ug/l  
RT: 2.230 min Scan# 31  
Delta R.T. -0.148 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

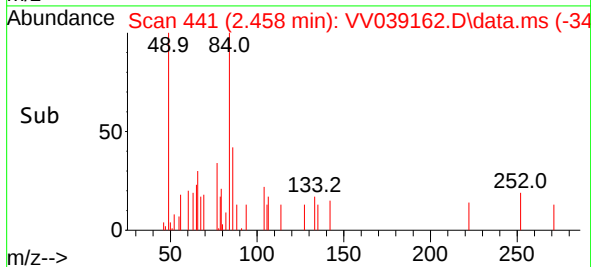
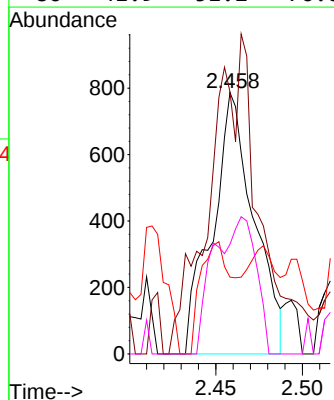
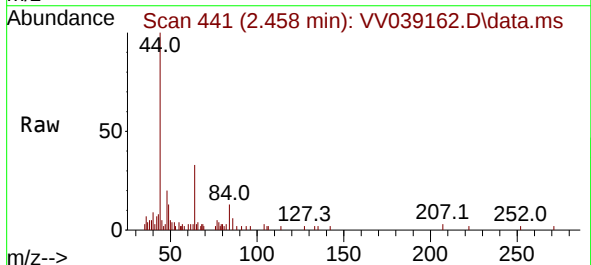
Instrument :  
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ClientSampleId :  
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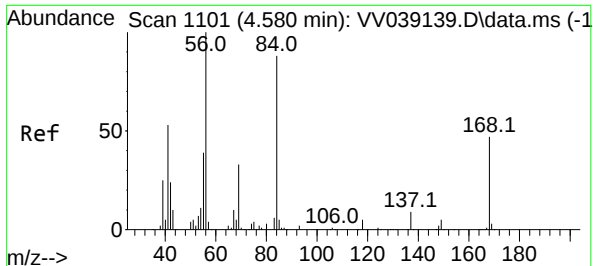
Tgt Ion: 43 Resp: 11085  
Ion Ratio Lower Upper  
43 100  
74 0.7 18.6 27.8#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.458 min Scan# 441  
Delta R.T. 0.003 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 84 Resp: 1321  
Ion Ratio Lower Upper  
84 100  
49 83.4 102.8 154.2#  
51 29.4 31.9 47.9#  
86 41.9 51.2 76.8#

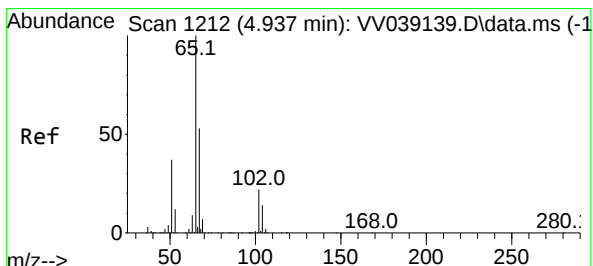
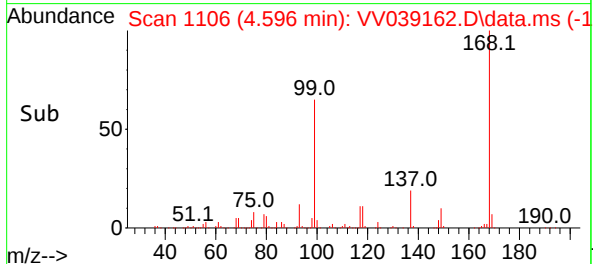
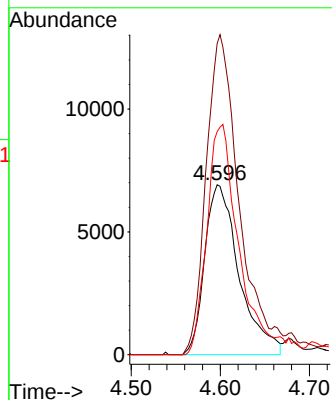
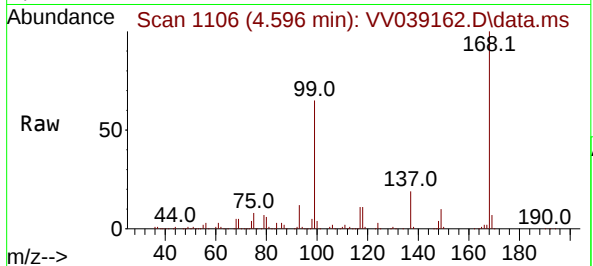




#31  
Cyclohexane  
Concen: 0.951 ug/l  
RT: 4.596 min Scan# 1106  
Delta R.T. 0.016 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

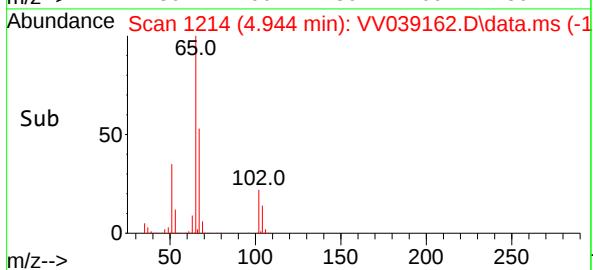
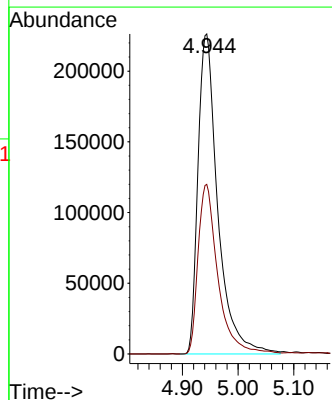
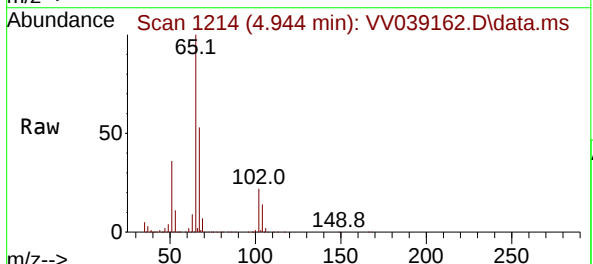
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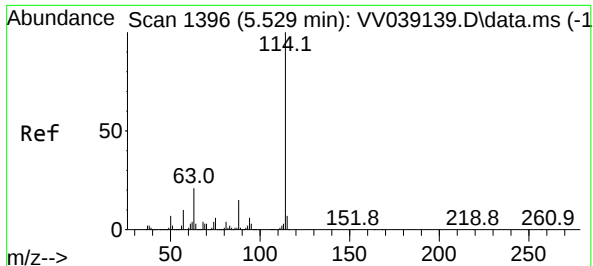
Tgt Ion: 56 Resp: 18553  
Ion Ratio Lower Upper  
56 100  
69 183.2 26.2 39.2#  
84 131.3 70.3 105.5#



#33  
1,2-Dichloroethane-d4  
Concen: 51.121 ug/l  
RT: 4.944 min Scan# 1214  
Delta R.T. 0.006 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 65 Resp: 559230  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 114

Delta R.T. 0.003 min

Lab File: VV039162.D

Acq: 24 Sep 2025 18:52

Instrument :

MSVOA\_V

ClientSampleId :

DA-3

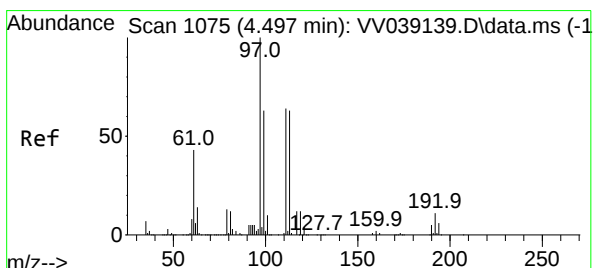
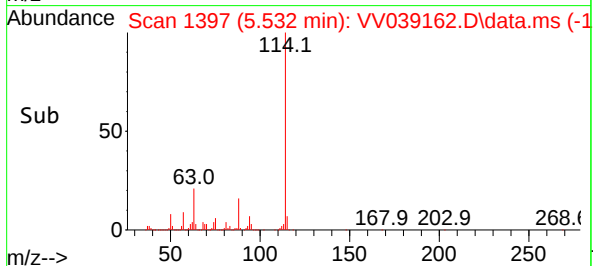
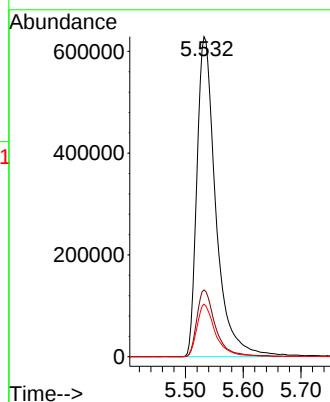
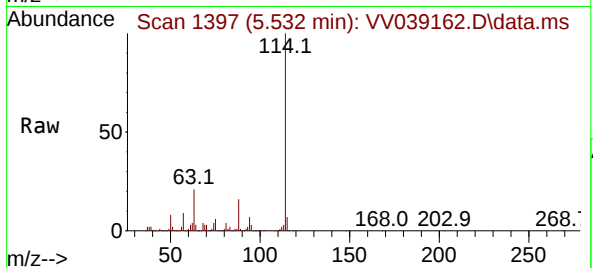
Tgt Ion:114 Resp: 1427337

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.6

88 16.4 0.0 30.8



#35

Dibromofluoromethane

Concen: 39.974 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039162.D

Acq: 24 Sep 2025 18:52

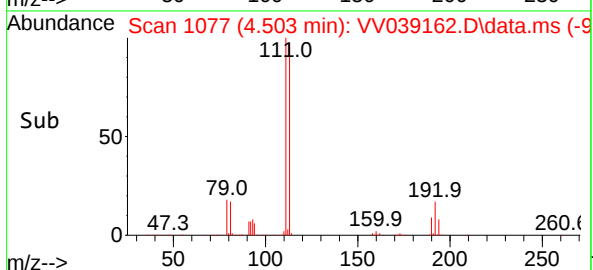
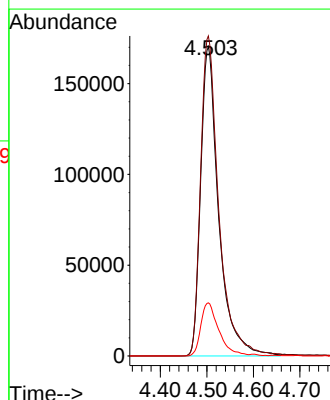
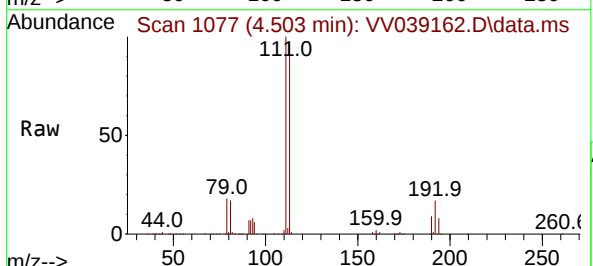
Tgt Ion:113 Resp: 458688

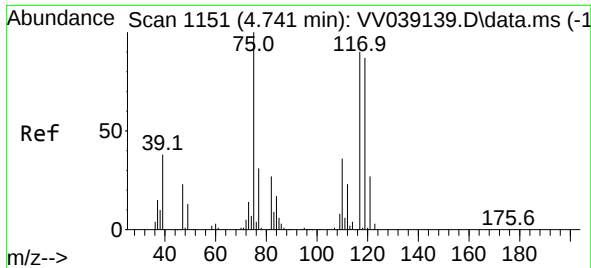
Ion Ratio Lower Upper

113 100

111 104.3 82.4 123.6

192 17.1 13.8 20.8

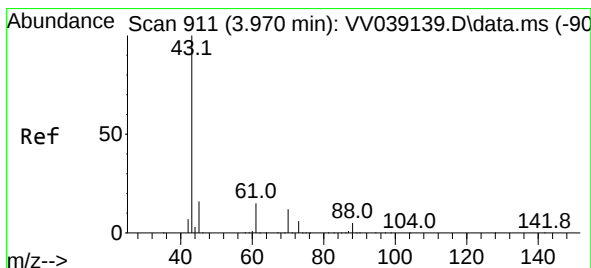
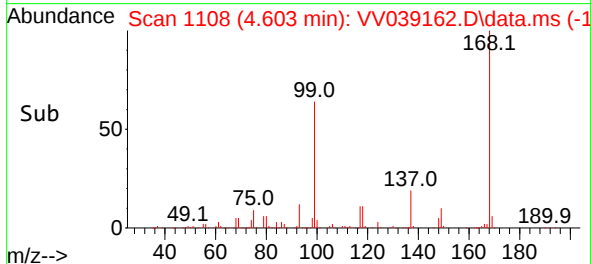
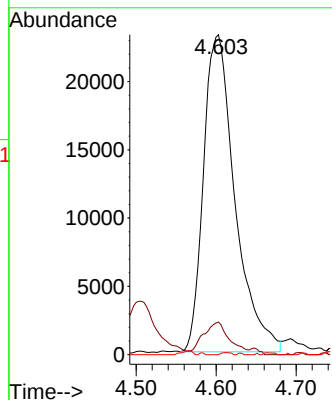
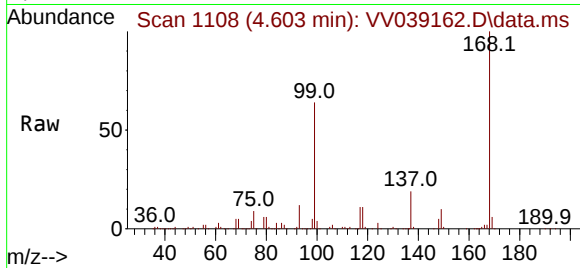




#36  
1,1-Dichloropropene  
Concen: 3.663 ug/l  
RT: 4.603 min Scan# 1151  
Delta R.T. -0.138 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

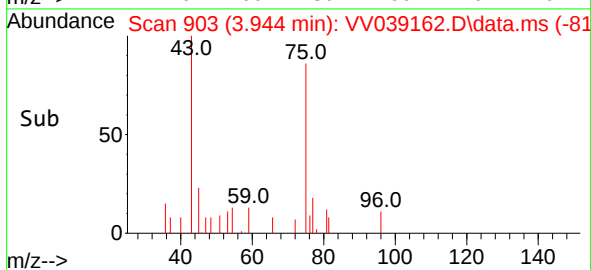
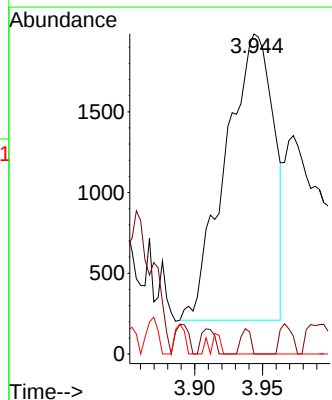
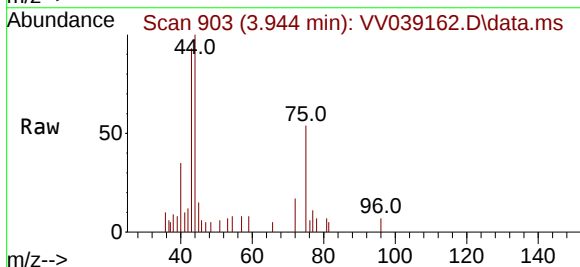
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

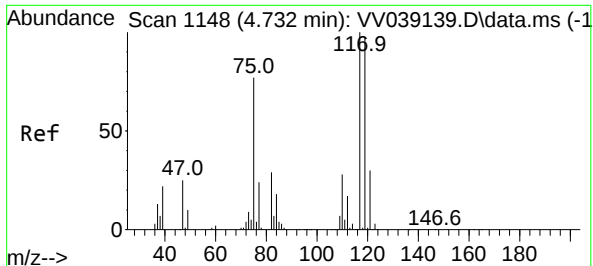
Tgt Ion: 75 Resp: 63540  
Ion Ratio Lower Upper  
75 100  
110 8.7 18.1 54.1#  
77 0.2 24.8 37.2#



#37  
Ethyl Acetate  
Concen: 0.207 ug/l  
RT: 3.944 min Scan# 903  
Delta R.T. -0.026 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 43 Resp: 4361  
Ion Ratio Lower Upper  
43 100  
61 1.8 10.3 15.5#  
70 0.0 8.0 12.0#

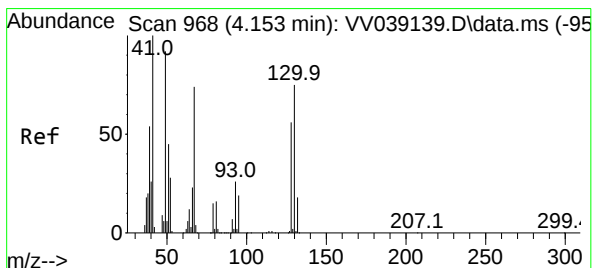
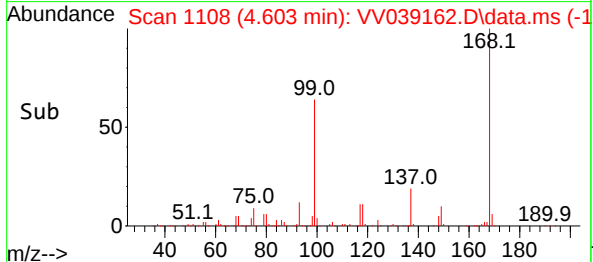
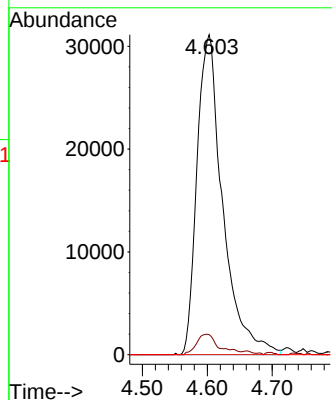
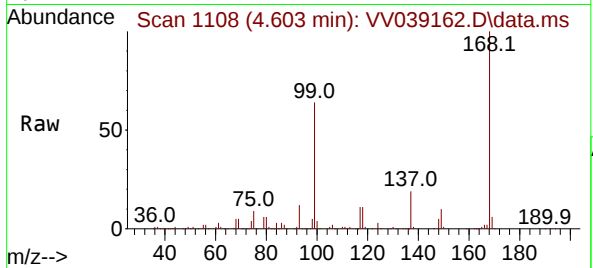




#38  
Carbon Tetrachloride  
Concen: 4.040 ug/l  
RT: 4.603 min Scan# 1108  
Delta R.T. -0.129 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

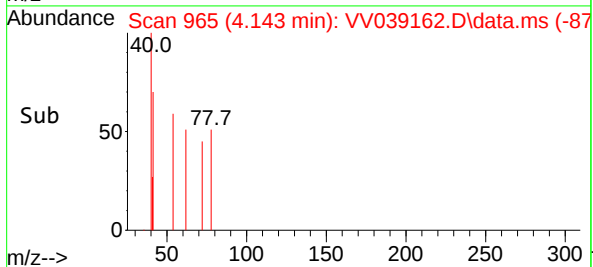
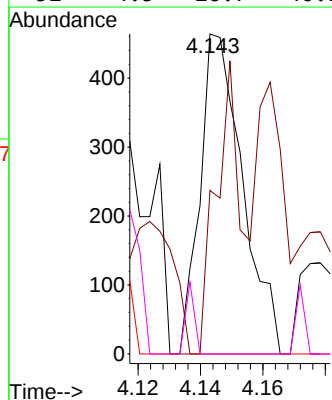
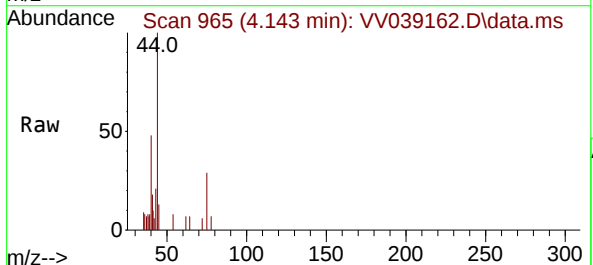
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

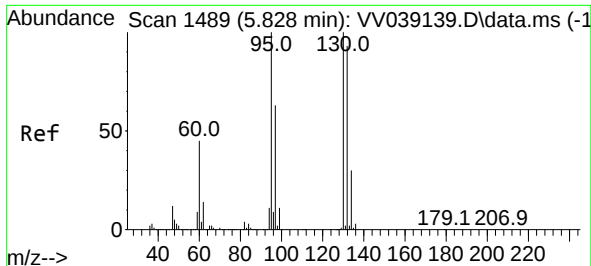
Tgt Ion:117 Resp: 85663  
Ion Ratio Lower Upper  
117 100  
119 6.3 77.2 115.8#  
121 0.0 24.2 36.2#



#41  
Methacrylonitrile  
Concen: 1.955 ug/l  
RT: 4.143 min Scan# 965  
Delta R.T. -0.010 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 41 Resp: 440  
Ion Ratio Lower Upper  
41 100  
39 54.1 42.2 63.2  
67 0.0 67.9 101.9#  
52 4.5 26.7 40.1#

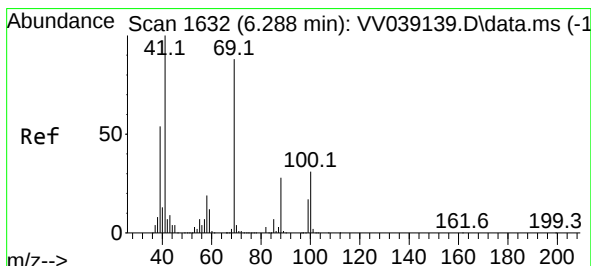
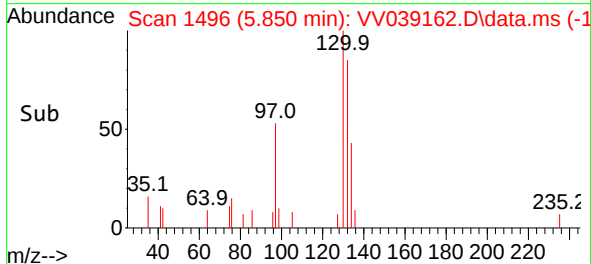
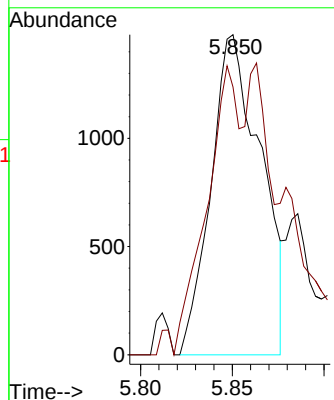
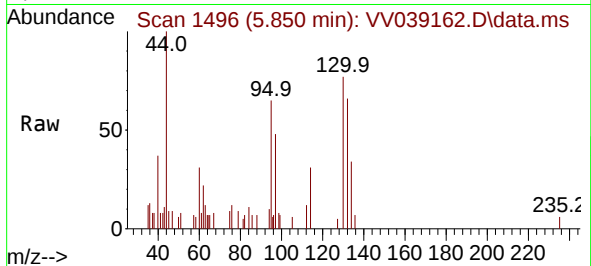




#44  
Trichloroethene  
Concen: 0.214 ug/l  
RT: 5.850 min Scan# 1489  
Delta R.T. 0.022 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

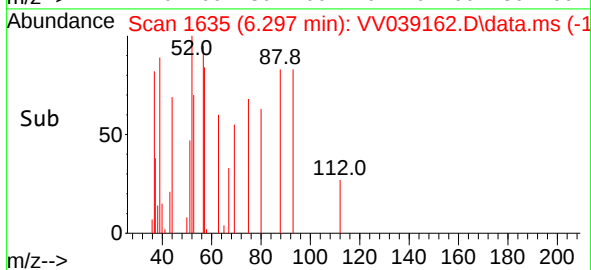
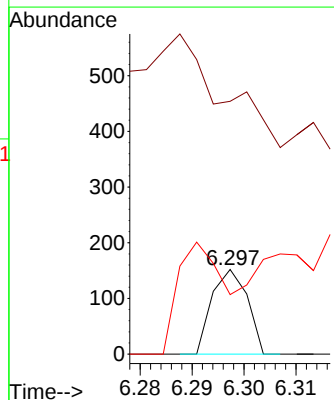
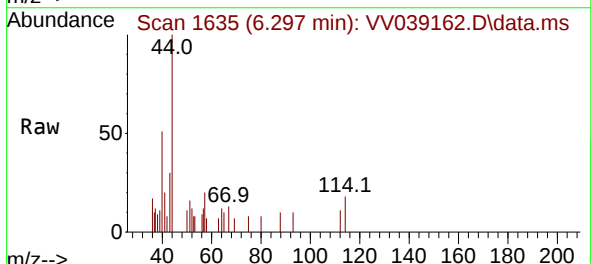
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

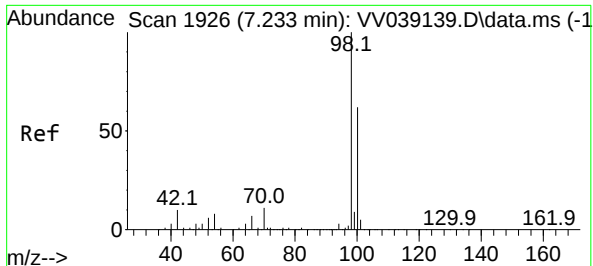
Tgt Ion:130 Resp: 2791  
Ion Ratio Lower Upper  
130 100  
95 73.6 0.0 199.2



#49  
1,4-Dioxane  
Concen: 0.343 ug/l  
RT: 6.297 min Scan# 1635  
Delta R.T. 0.010 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 88 Resp: 72  
Ion Ratio Lower Upper  
88 100  
43 444.4 25.1 37.7#  
58 168.1 53.6 80.4#

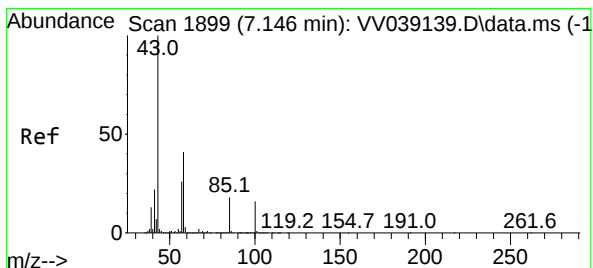
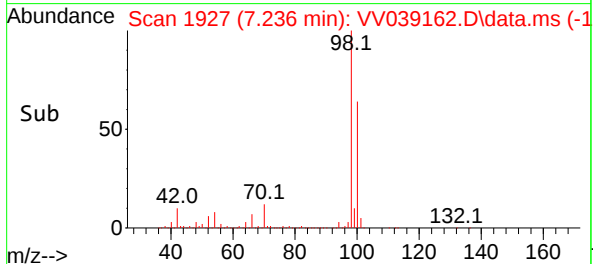
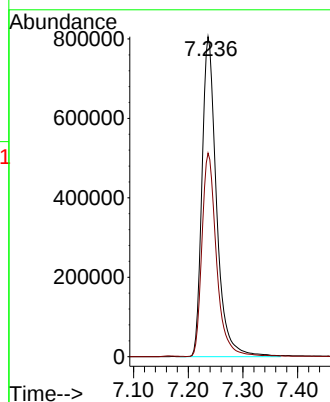
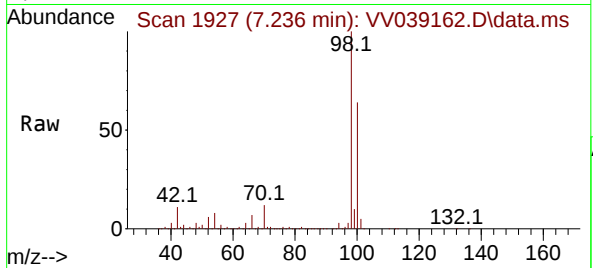




#50  
Toluene-d8  
Concen: 44.053 ug/l  
RT: 7.236 min Scan# 1926  
Delta R.T. 0.003 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

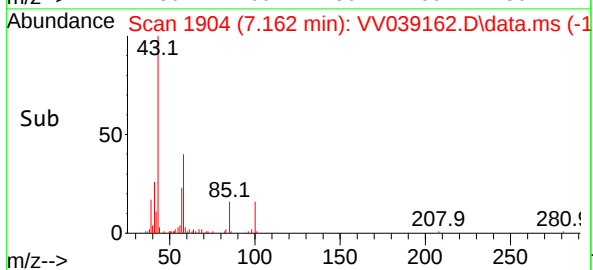
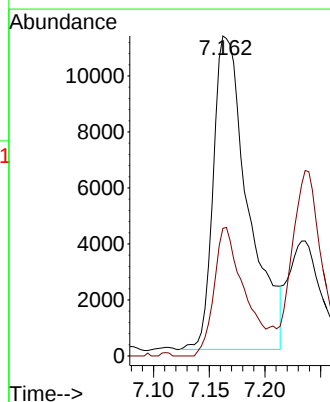
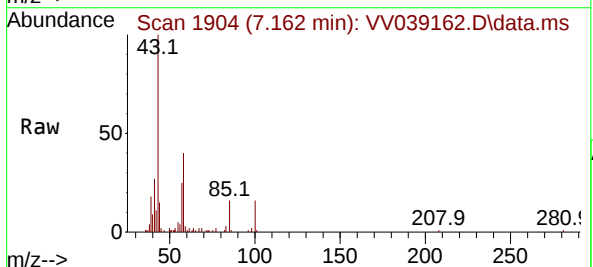
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

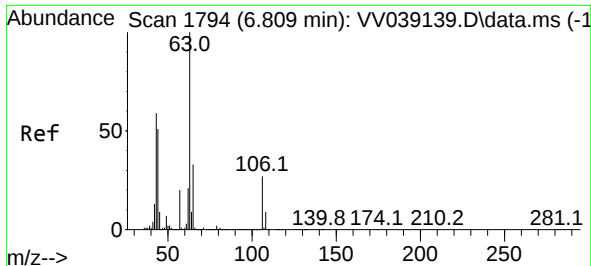
Tgt Ion: 98 Resp: 1484627  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.2 78.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.286 ug/l  
RT: 7.162 min Scan# 1904  
Delta R.T. 0.016 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 43 Resp: 24286  
Ion Ratio Lower Upper  
43 100  
58 35.4 32.3 48.5

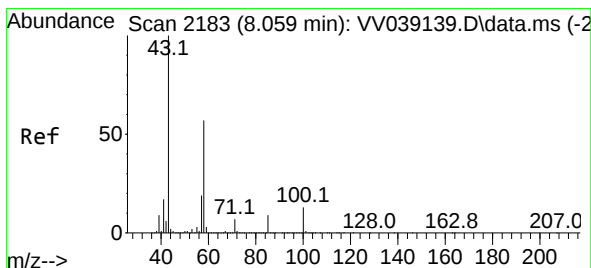
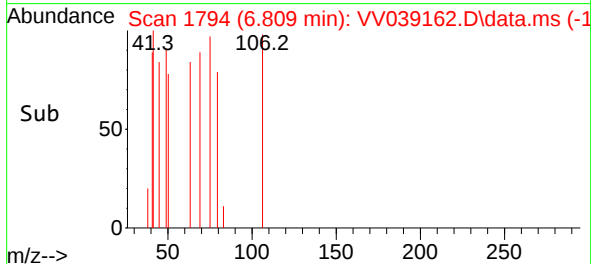
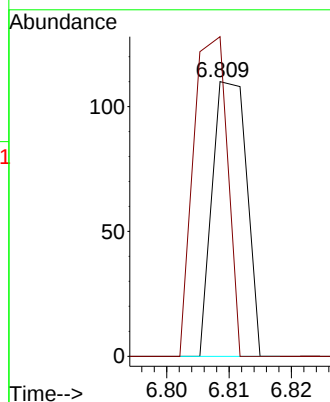
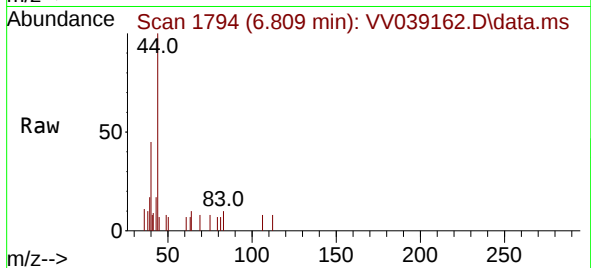




#58  
2-Chloroethyl Vinyl ether  
Concen: 9.627 ug/l  
RT: 6.809 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

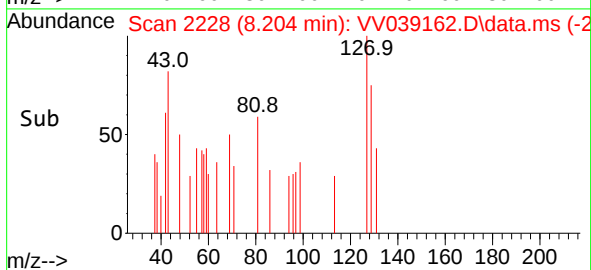
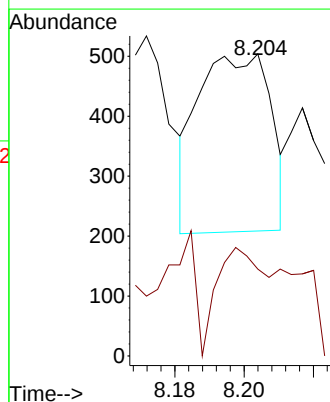
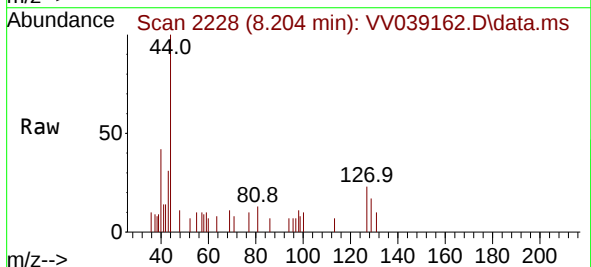
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

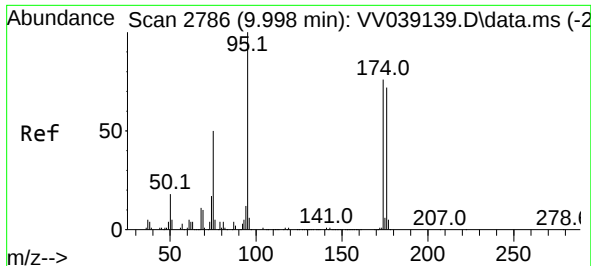
Tgt Ion: 63 Resp: 42  
Ion Ratio Lower Upper  
63 100  
106 114.3 22.1 33.1#



#59  
2-Hexanone  
Concen: 2.353 ug/l  
RT: 8.204 min Scan# 2228  
Delta R.T. 0.145 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 43 Resp: 428  
Ion Ratio Lower Upper  
43 100  
58 40.2 28.3 85.0

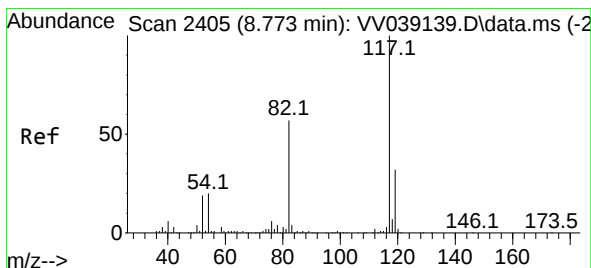
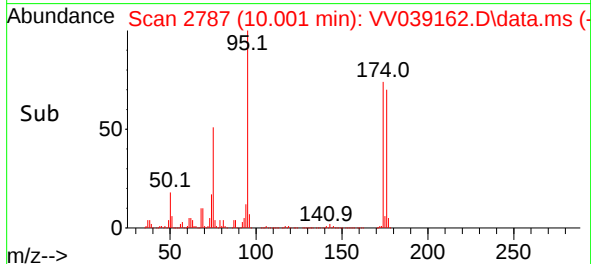
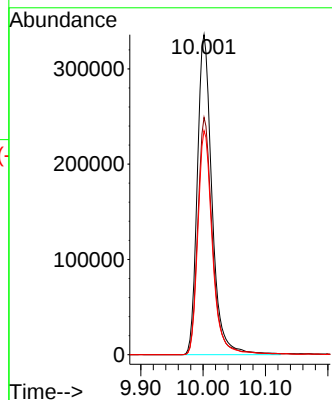
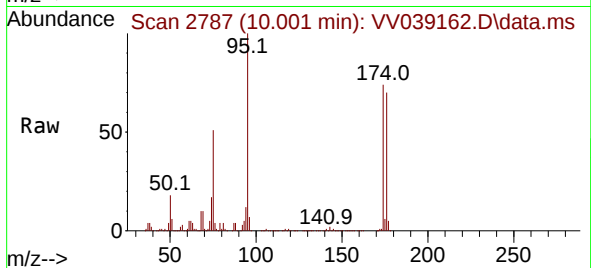




#62  
4-Bromofluorobenzene  
Concen: 39.599 ug/l  
RT: 10.001 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

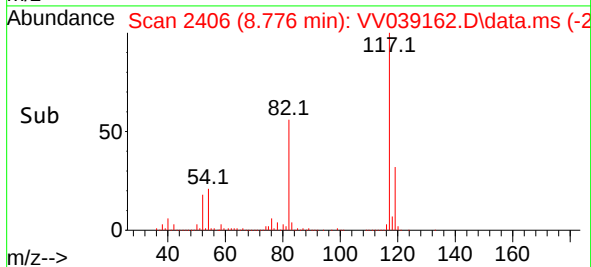
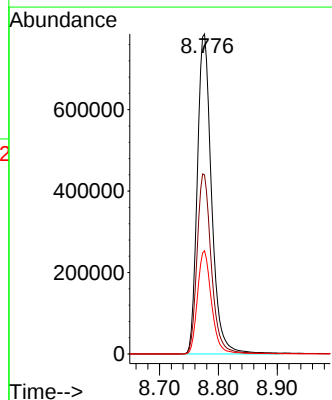
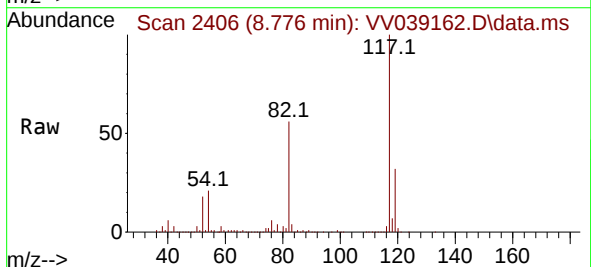
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

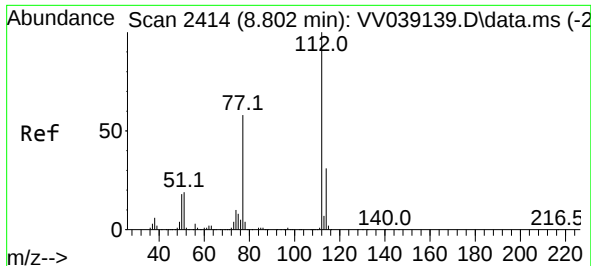
Tgt Ion: 95 Resp: 549383  
Ion Ratio Lower Upper  
95 100  
174 74.3 0.0 150.4  
176 69.1 0.0 144.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 8.776 min Scan# 2406  
Delta R.T. 0.003 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 117 Resp: 1322483  
Ion Ratio Lower Upper  
117 100  
82 56.0 45.4 68.2  
119 32.2 25.6 38.4

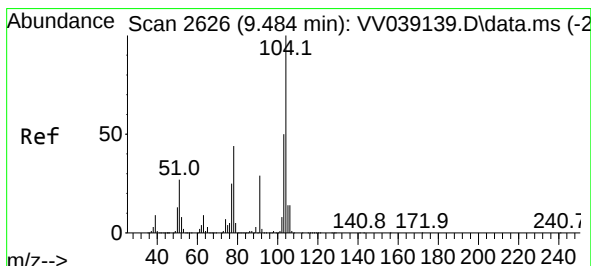
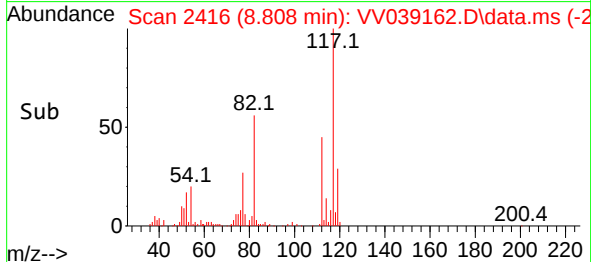
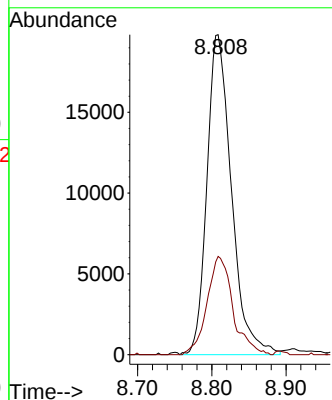
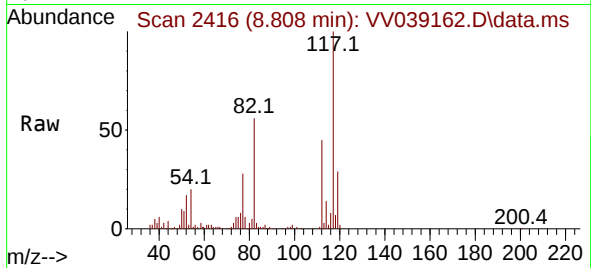




#65  
Chlorobenzene  
Concen: 1.232 ug/l  
RT: 8.808 min Scan# 2414  
Delta R.T. 0.006 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

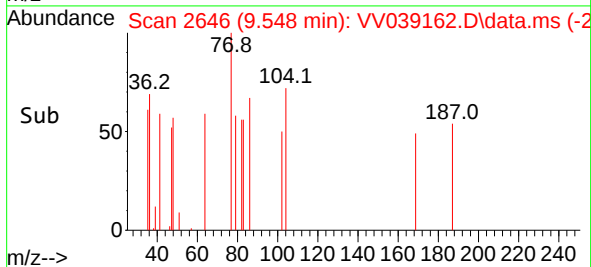
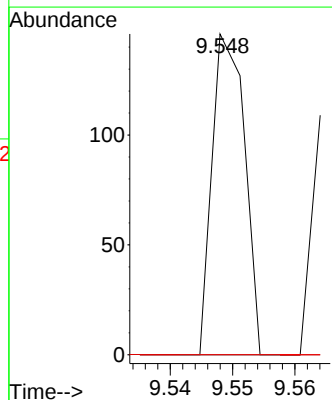
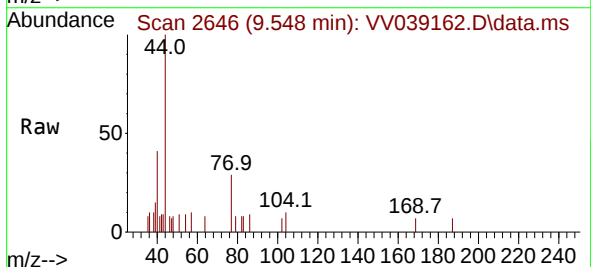
Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

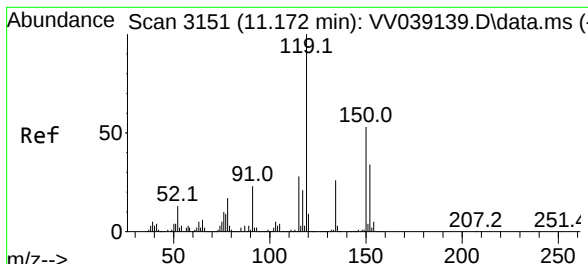
Tgt Ion:112 Resp: 45385  
Ion Ratio Lower Upper  
112 100  
114 30.7 24.6 37.0



#70  
Styrene  
Concen: 1.563 ug/l  
RT: 9.548 min Scan# 2646  
Delta R.T. 0.064 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion:104 Resp: 53  
Ion Ratio Lower Upper  
104 100  
78 0.0 39.8 59.6#  
103 0.0 43.4 65.2#

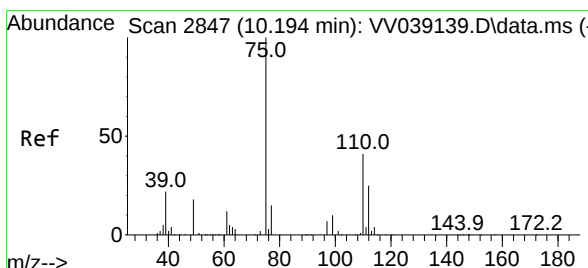
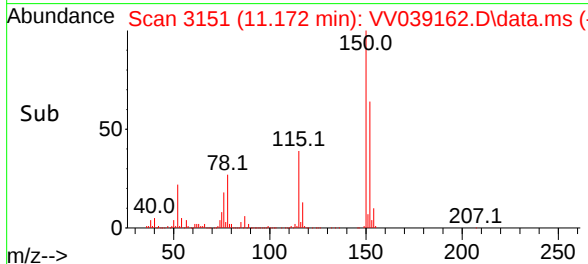
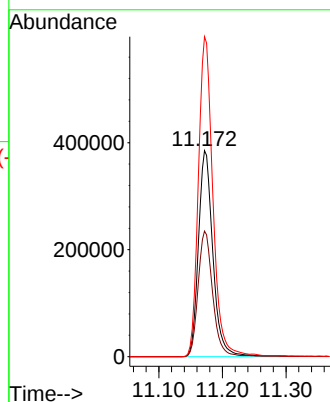
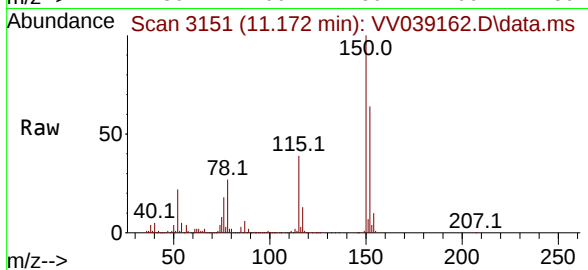




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.172 min Scan# 3151  
 Delta R.T. -0.000 min  
 Lab File: VV039162.D  
 Acq: 24 Sep 2025 18:52

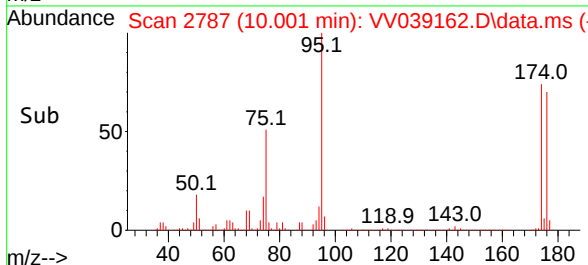
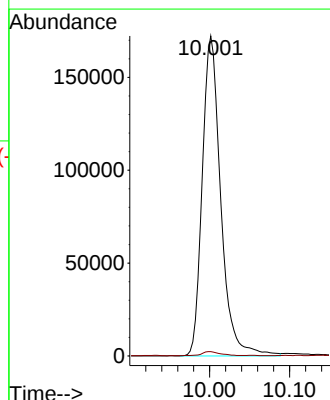
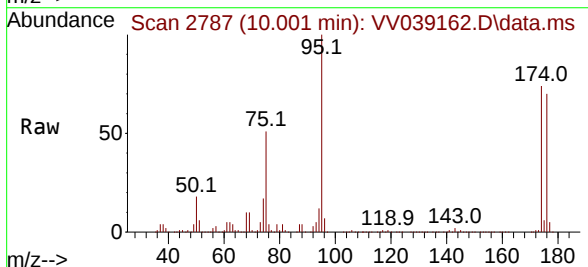
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 DA-3

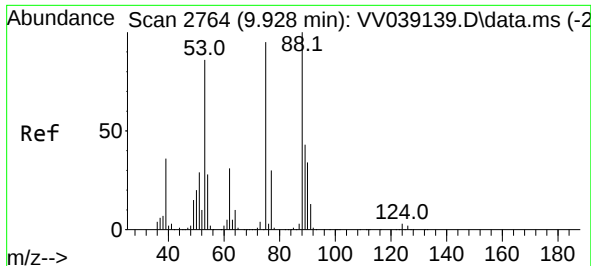
Tgt Ion:152 Resp: 607726  
 Ion Ratio Lower Upper  
 152 100  
 115 60.9 44.8 134.4  
 150 156.9 0.0 353.8



#76  
 1,2,3-Trichloropropane  
 Concen: 20.101 ug/l  
 RT: 10.001 min Scan# 2787  
 Delta R.T. -0.193 min  
 Lab File: VV039162.D  
 Acq: 24 Sep 2025 18:52

Tgt Ion: 75 Resp: 278138  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 11.3 33.8#

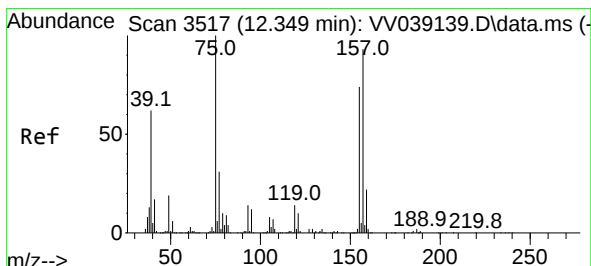
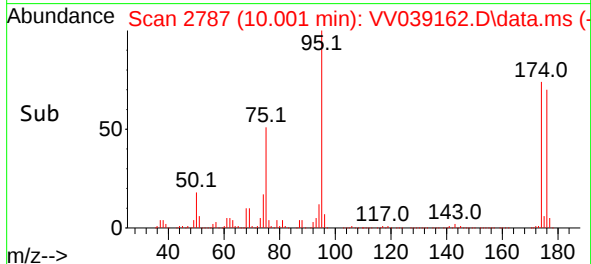
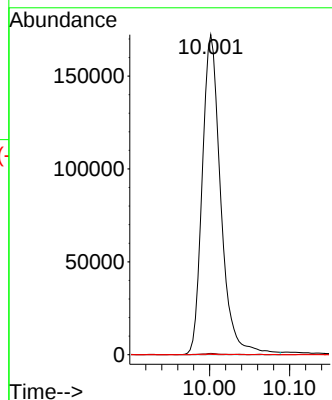
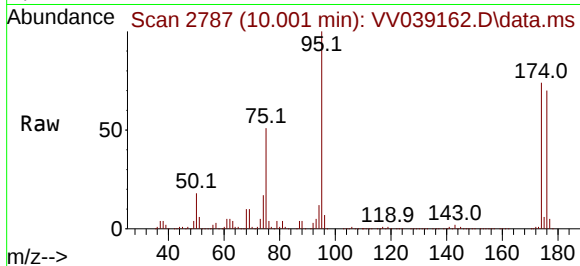




#81  
trans-1,4-Dichloro-2-butene  
Concen: 48.257 ug/l  
RT: 10.001 min Scan# 21  
Delta R.T. 0.074 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Instrument :  
MSVOA\_V  
ClientSampleId :  
DA-3

Tgt Ion: 75 Resp: 278138  
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: 12.326 min Scan# 3510  
Delta R.T. -0.023 min  
Lab File: VV039162.D  
Acq: 24 Sep 2025 18:52

Tgt Ion: 75 Resp: 78  
Ion Ratio Lower Upper  
75 100  
155 0.0 38.6 115.8#  
157 0.0 49.5 148.3#

