

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW091525\  
 Data File : VW032174.D  
 Acq On : 15 Sep 2025 15:27  
 Operator : SY/MD  
 Sample : Q3105-01  
 Misc : 5.00g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Sep 16 06:37:09 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W082625S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 27 04:13:40 2025  
 Response via : Initial Calibration

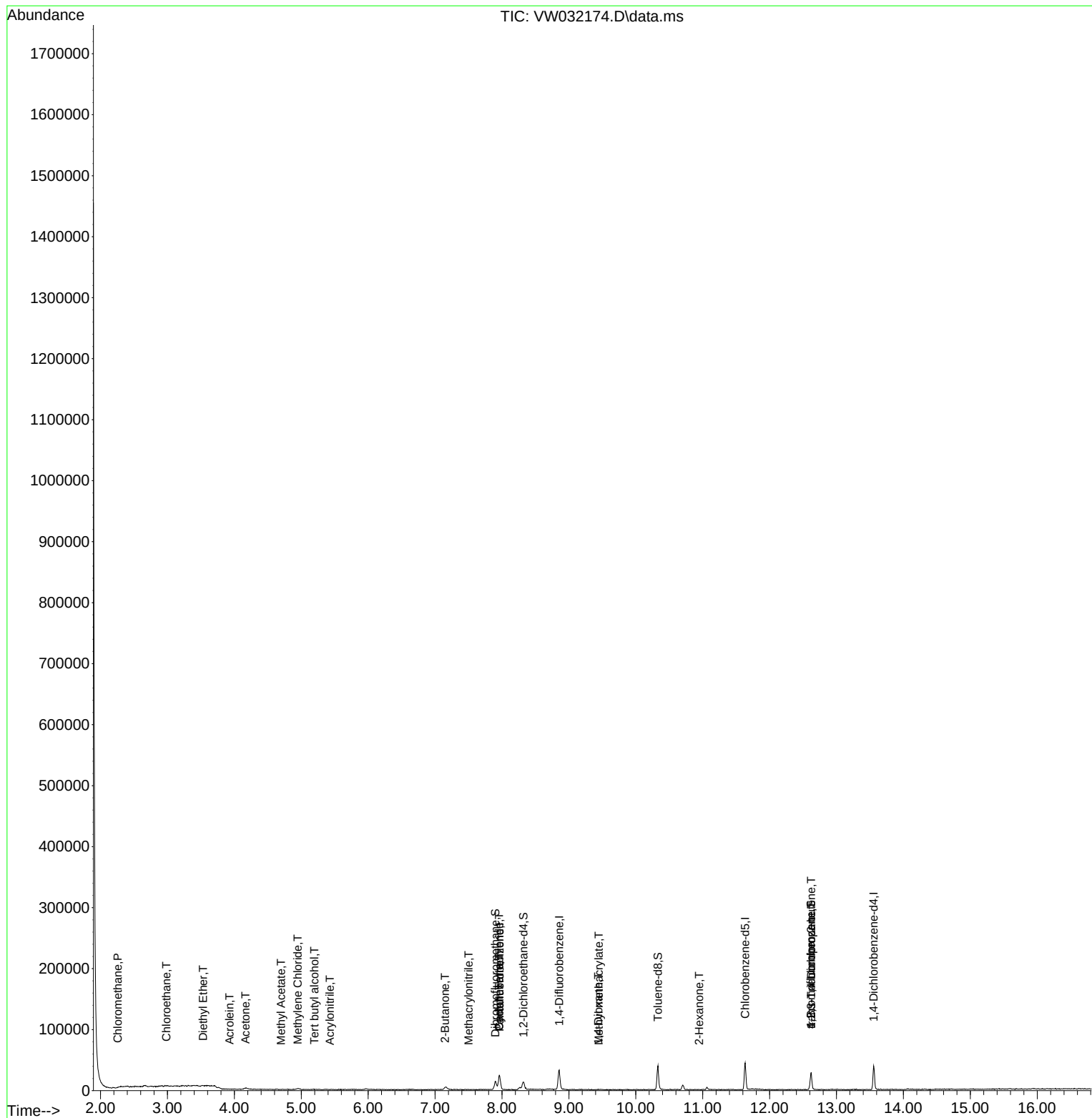
| Compound                      | R.T. QIon |                | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|-----------|----------------|----------|------------|--------|----------|
| -----                         |           |                |          |            |        |          |
| Internal Standards            |           |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.965     | 168            | 15319    | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855     | 114            | 24853    | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.635    | 117            | 23732    | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.556    | 152            | 10090    | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |           |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.319     | 65             | 11019    | 50.296     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 63 - 155 | Recovery | = 100.600% |        |          |
| 35) Dibromofluoromethane      | 7.898     | 113            | 9360     | 53.680     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 70 - 134 | Recovery | = 107.360% |        |          |
| 50) Toluene-d8                | 10.331    | 98             | 24991    | 40.827     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 74 - 123 | Recovery | = 81.660%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.617    | 95             | 8617     | 38.070     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 17 - 146 | Recovery | = 76.140%  |        |          |
| Target Compounds              |           |                |          |            |        |          |
|                               |           |                |          |            |        | Qvalue   |
| 3) Chloromethane              | 2.259     | 50             | 149      | 1.405      | ug/l # | 42       |
| 6) Chloroethane               | 2.984     | 64             | 300      | 3.093      | ug/l # | 50       |
| 8) Diethyl Ether              | 3.533     | 74             | 146      | 1.434      | ug/l   | 78       |
| 11) Tert butyl alcohol        | 5.197     | 59             | 263      | 19.626     | ug/l # | 69       |
| 13) Acrolein                  | 3.929     | 56             | 106      | 5.146      | ug/l # | 30       |
| 15) Acrylonitrile             | 5.429     | 53             | 96       | 1.939      | ug/l # | 11       |
| 16) Acetone                   | 4.167     | 43             | 4833     | 101.861    | ug/l # | 79       |
| 18) Methyl Acetate            | 4.698     | 43             | 294      | 1.945      | ug/l # | 50       |
| 20) Methylene Chloride        | 4.947     | 84             | 1297     | 3.117      | ug/l # | 74       |
| 25) 2-Butanone                | 7.148     | 43             | 329      | 4.893      | ug/l # | 88       |
| 31) Cyclohexane               | 7.959     | 56             | 506      | 1.881      | ug/l # | 62       |
| 38) Carbon Tetrachloride      | 7.959     | 117            | 1667     | 6.878      | ug/l # | 23       |
| 41) Methacrylonitrile         | 7.502     | 41             | 276      | 3.663      | ug/l # | 31       |
| 48) Methyl methacrylate       | 9.447     | 41             | 180      | 1.535      | ug/l # | 24       |
| 49) 1,4-Dioxane               | 9.441     | 88             | 29       | 20.313     | ug/l # | 1        |
| 59) 2-Hexanone                | 10.946    | 43             | 144      | 1.441      | ug/l   | 70       |
| 76) 1,2,3-Trichloropropane    | 12.623    | 75             | 5099     | 40.338     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.623    | 75             | 5099     | 108.608    | ug/l # | 6        |
| -----                         |           |                |          |            |        |          |

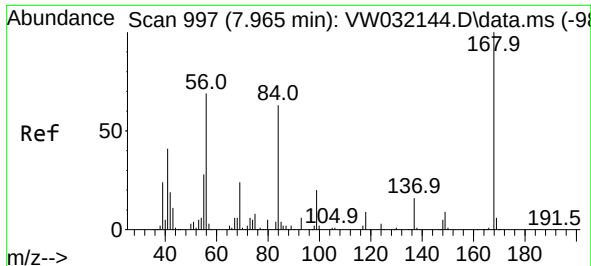
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
ClientSampleId :

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Quant Title : SW846 8260  
QLast Update : Wed Aug 27 04:13:40 2025  
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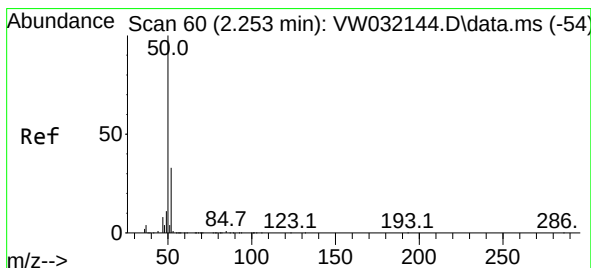
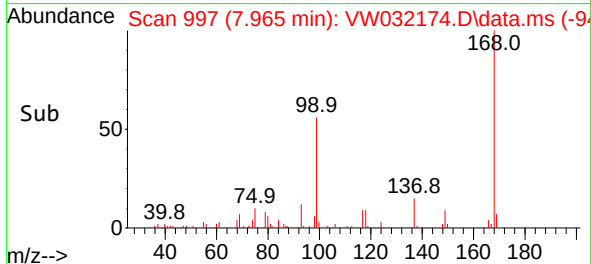
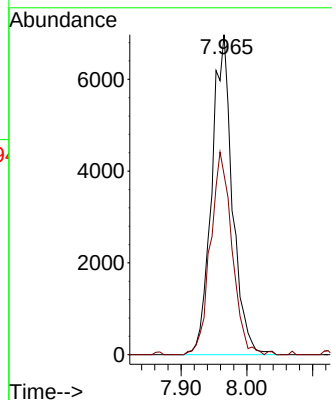
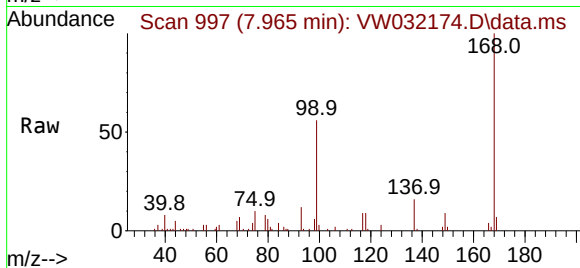




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.965 min Scan# 99  
Delta R.T. 0.000 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

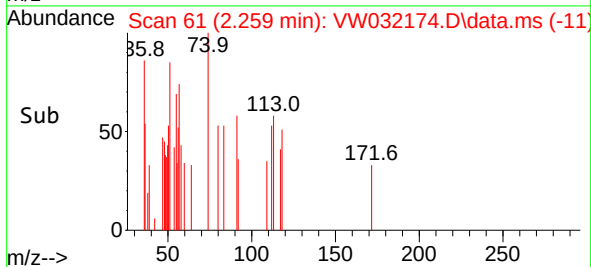
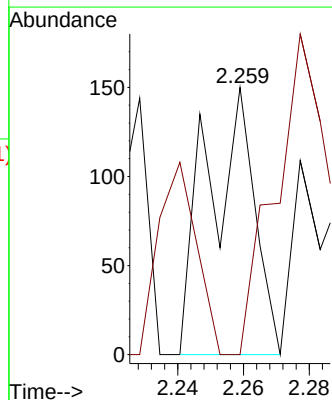
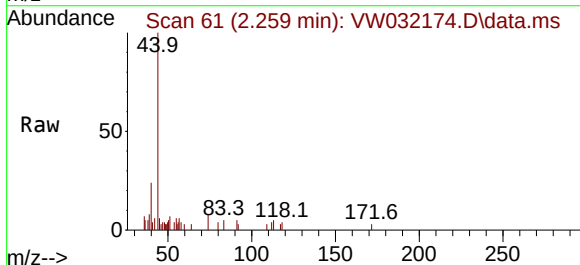
Instrument :  
MSVOA\_W  
ClientSampleId :

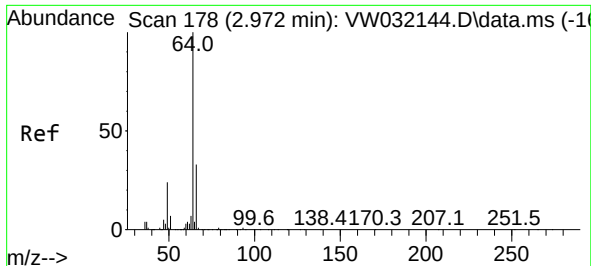
Tgt Ion:168 Resp: 15319  
Ion Ratio Lower Upper  
168 100  
99 56.3 49.3 73.9



#3  
Chloromethane  
Concen: 1.405 ug/l  
RT: 2.259 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

Tgt Ion: 50 Resp: 149  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.1 39.1#

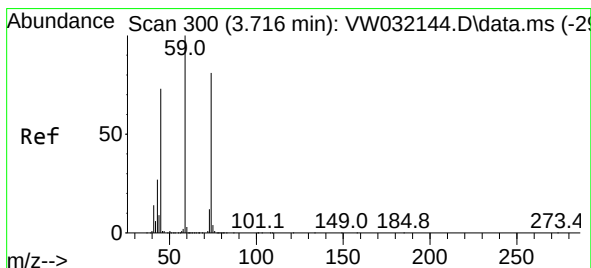
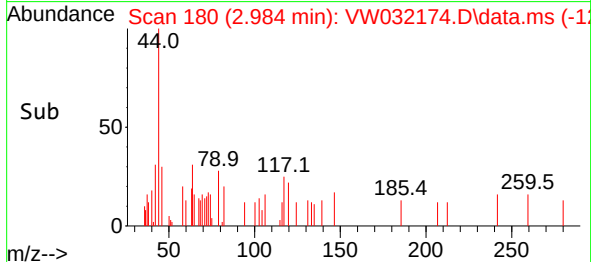
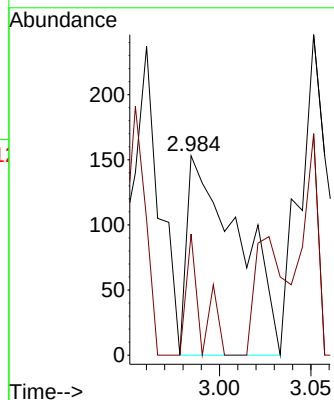
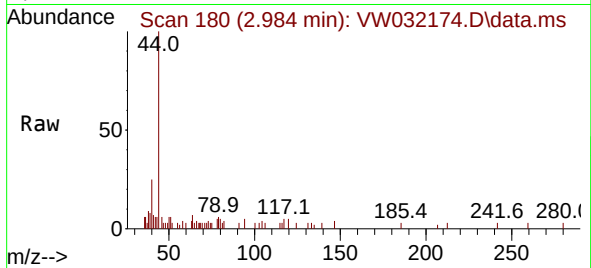




#6  
Chloroethane  
Concen: 3.093 ug/l  
RT: 2.984 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

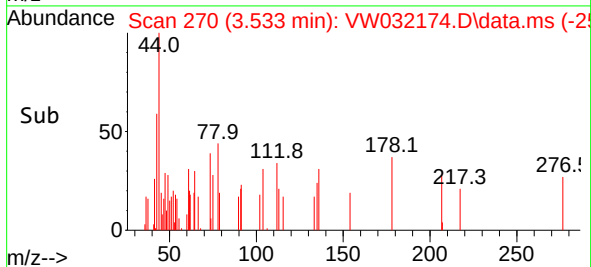
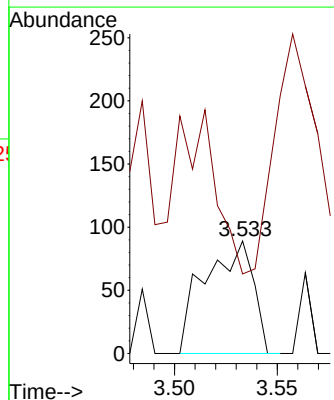
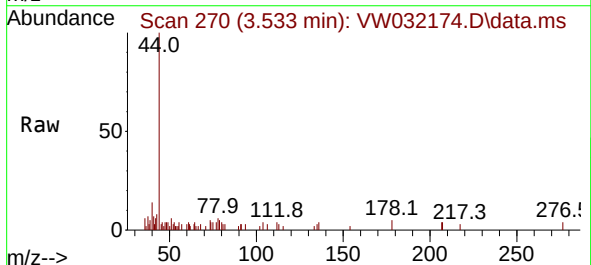
Instrument :  
MSVOA\_W  
ClientSampleId :

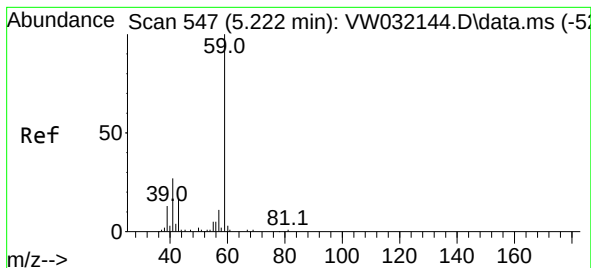
Tgt Ion: 64 Resp: 300  
Ion Ratio Lower Upper  
64 100  
66 60.8 26.2 39.4#



#8  
Diethyl Ether  
Concen: 1.434 ug/l  
RT: 3.533 min Scan# 270  
Delta R.T. -0.183 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

Tgt Ion: 74 Resp: 146  
Ion Ratio Lower Upper  
74 100  
45 106.8 43.1 129.4





#11

Tert butyl alcohol

Concen: 19.626 ug/l

RT: 5.197 min Scan# 547

Delta R.T. -0.025 min

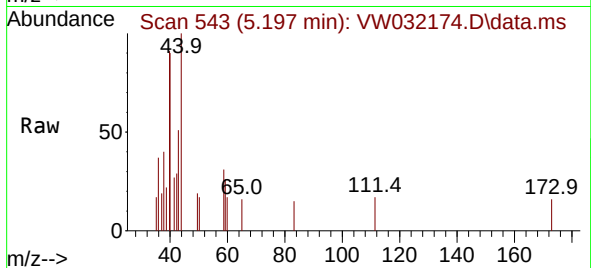
Lab File: VW032174.D

Acq: 15 Sep 2025 15:27

Instrument :

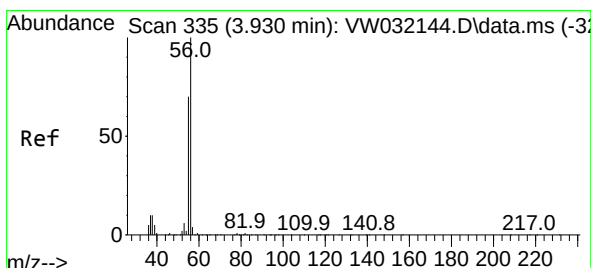
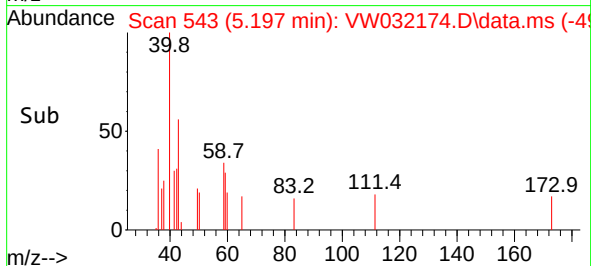
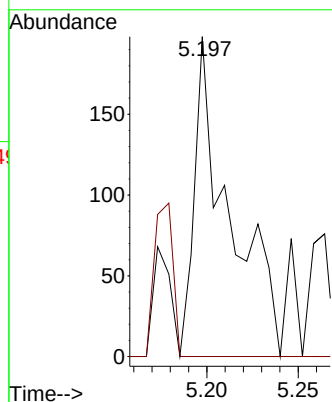
MSVOA\_W

ClientSampleId :



Tgt Ion: 59 Resp: 263

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 59  | 100   |       |       |
| 57  | 0.0   | 9.8   | 14.6# |



#13

Acrolein

Concen: 5.146 ug/l

RT: 3.929 min Scan# 335

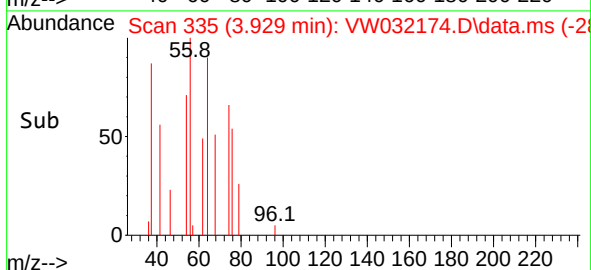
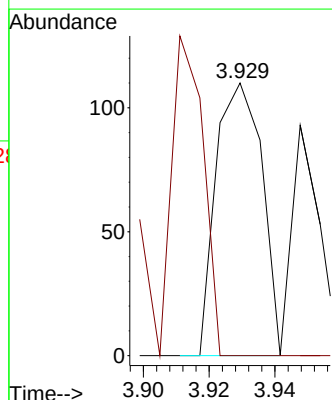
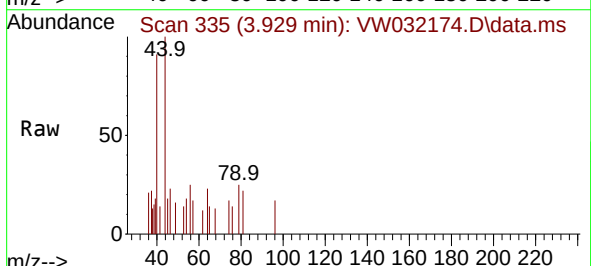
Delta R.T. -0.000 min

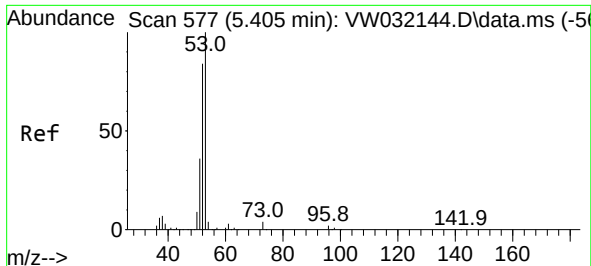
Lab File: VW032174.D

Acq: 15 Sep 2025 15:27

Tgt Ion: 56 Resp: 106

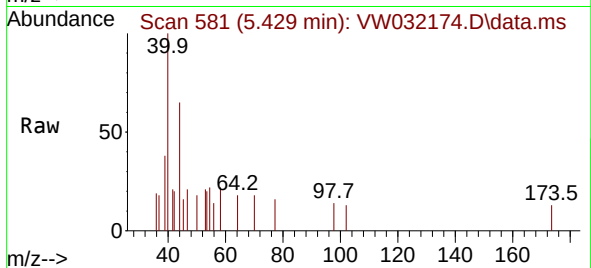
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 55  | 128.3 | 56.4  | 84.6# |



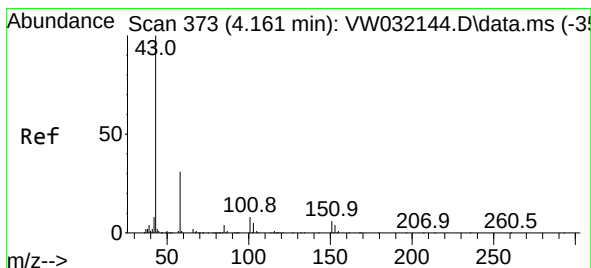
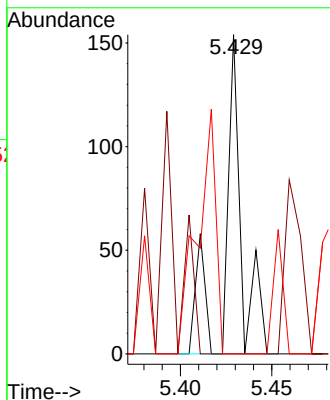
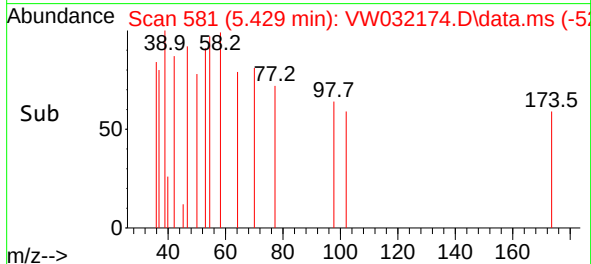


#15  
Acrylonitrile  
Concen: 1.939 ug/l  
RT: 5.429 min Scan# 51  
Delta R.T. 0.024 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

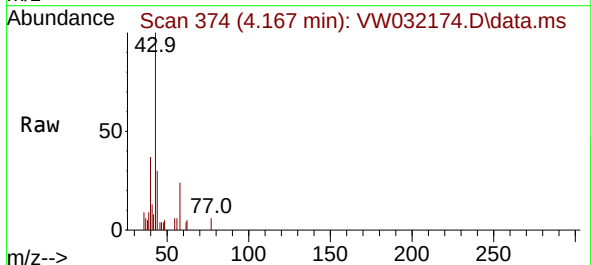
Instrument :  
MSVOA\_W  
ClientSampleId :



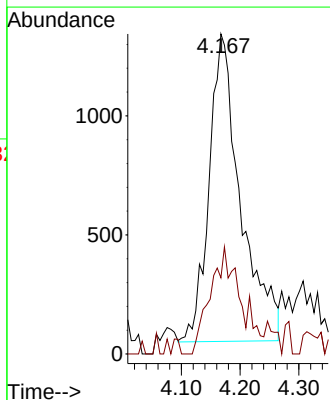
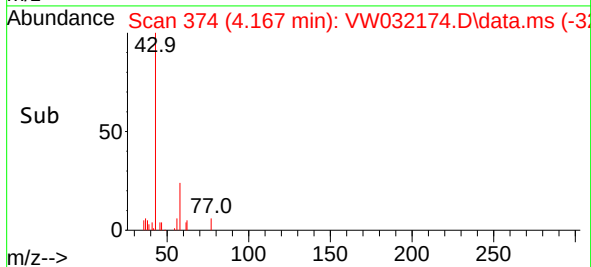
Tgt Ion: 53 Resp: 96  
Ion Ratio Lower Upper  
53 100  
52 0.0 67.4 101.2#  
51 86.5 30.3 45.5#

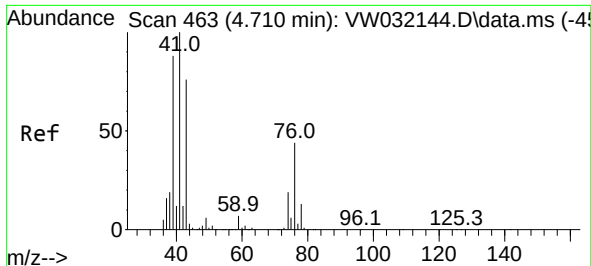


#16  
Acetone  
Concen: 101.861 ug/l  
RT: 4.167 min Scan# 374  
Delta R.T. 0.006 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27



Tgt Ion: 43 Resp: 4833  
Ion Ratio Lower Upper  
43 100  
58 20.0 25.3 37.9#

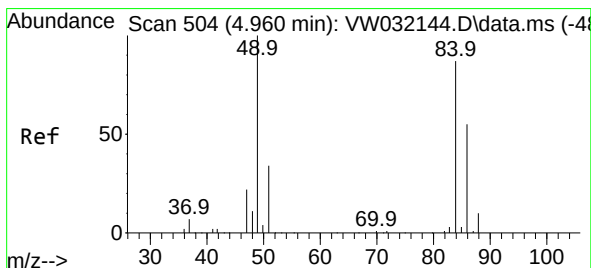
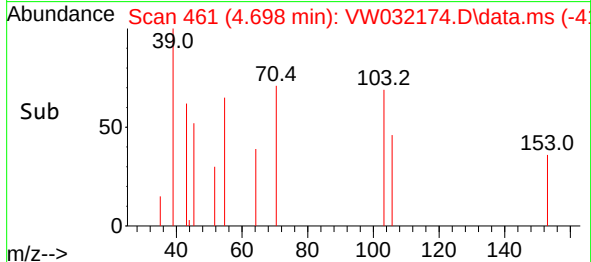
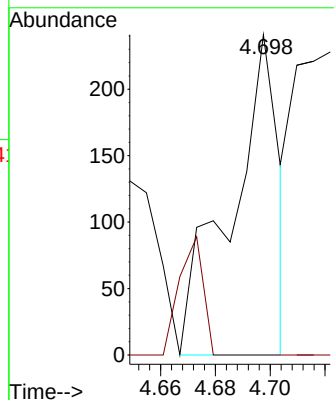
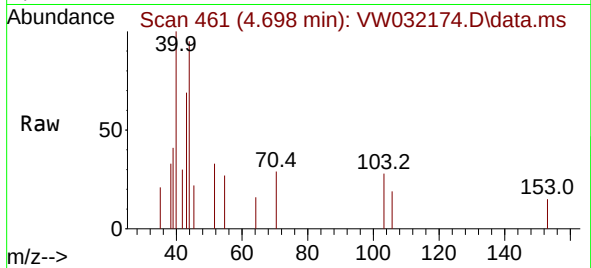




#18  
Methyl Acetate  
Concen: 1.945 ug/l  
RT: 4.698 min Scan# 461  
Delta R.T. -0.012 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

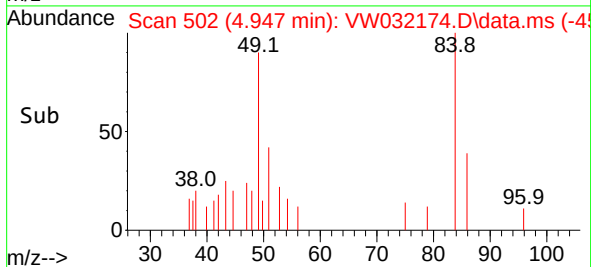
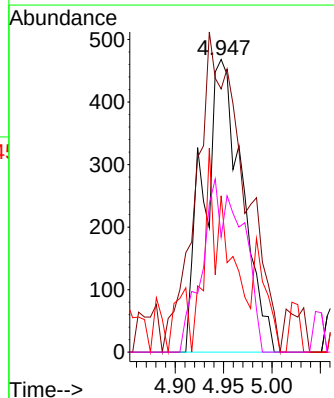
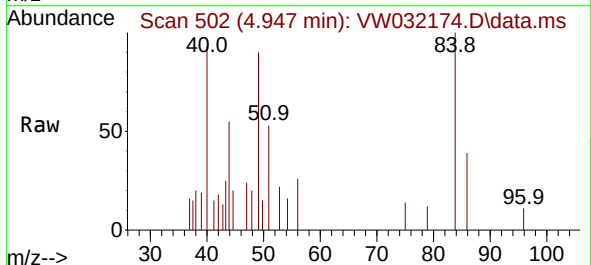
Instrument :  
MSVOA\_W  
ClientSampleId :

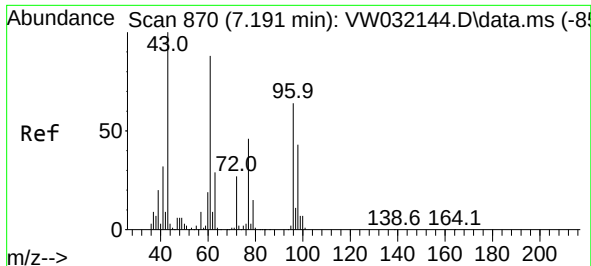
Tgt Ion: 43 Resp: 294  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.4#



#20  
Methylene Chloride  
Concen: 3.117 ug/l  
RT: 4.947 min Scan# 502  
Delta R.T. -0.013 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

Tgt Ion: 84 Resp: 1297  
Ion Ratio Lower Upper  
84 100  
49 90.0 92.2 138.4#  
51 53.4 31.0 46.6#  
86 39.3 50.5 75.7#

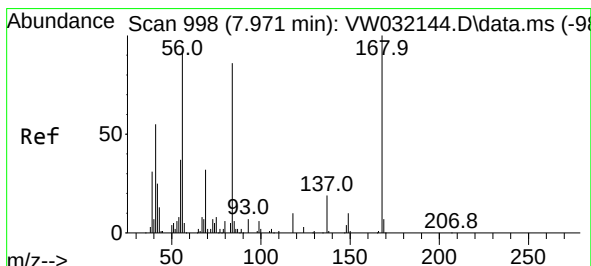
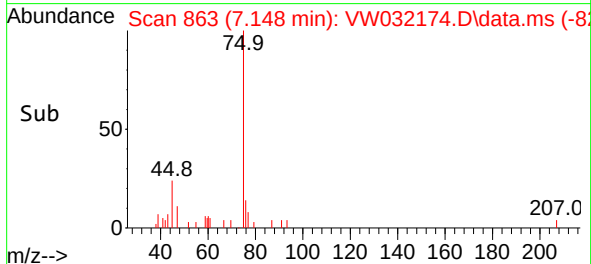
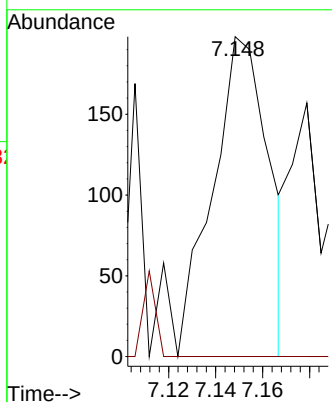
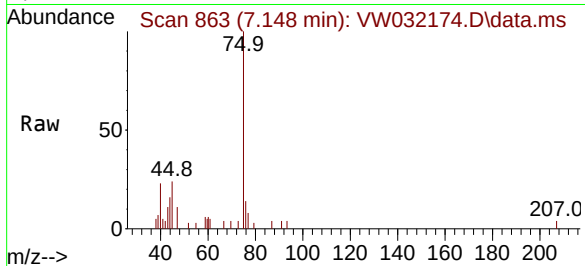




#25  
2-Butanone  
Concen: 4.893 ug/l  
RT: 7.148 min Scan# 80  
Delta R.T. -0.043 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

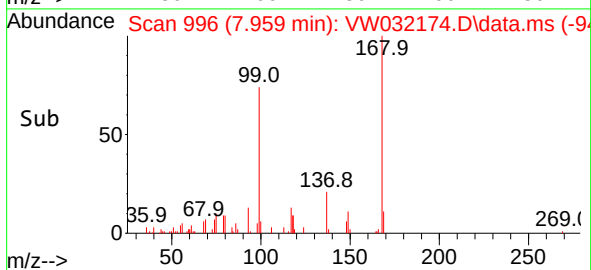
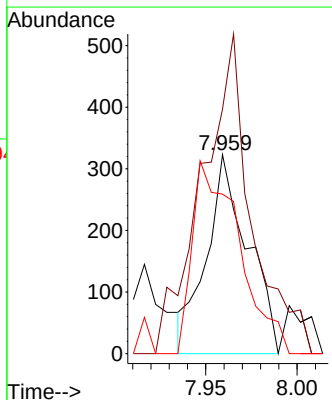
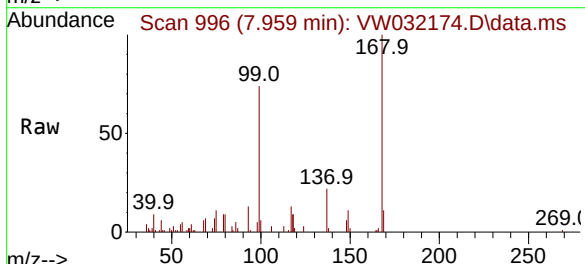
Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion: 43 Resp: 329  
Ion Ratio Lower Upper  
43 100  
72 32.8 21.4 32.2#

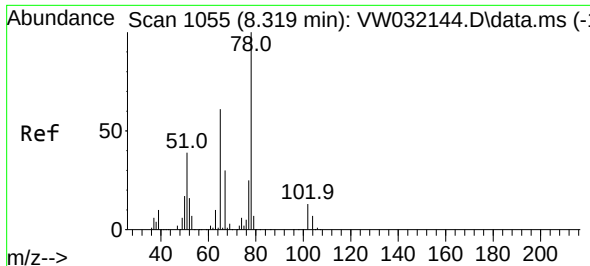


#31  
Cyclohexane  
Concen: 1.881 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

Tgt Ion: 56 Resp: 506  
Ion Ratio Lower Upper  
56 100  
69 93.8 27.7 41.5#  
84 80.2 74.6 112.0



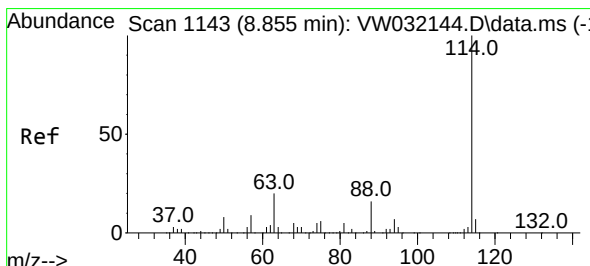
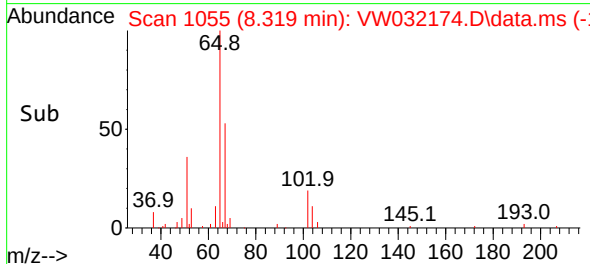
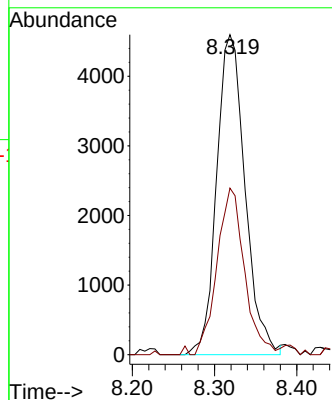
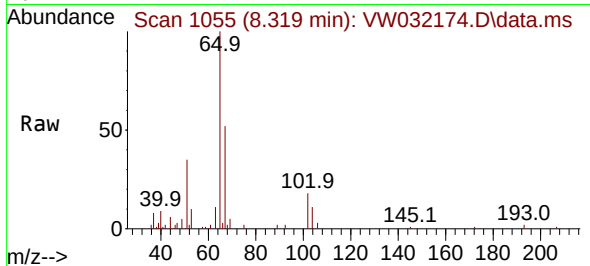




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.296 ug/l  
 RT: 8.319 min Scan# 1055  
 Delta R.T. -0.000 min  
 Lab File: VW032174.D  
 Acq: 15 Sep 2025 15:27

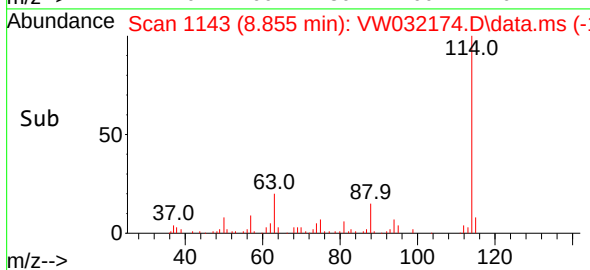
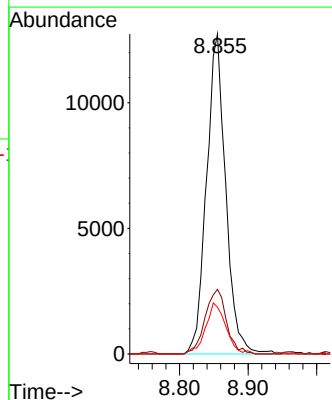
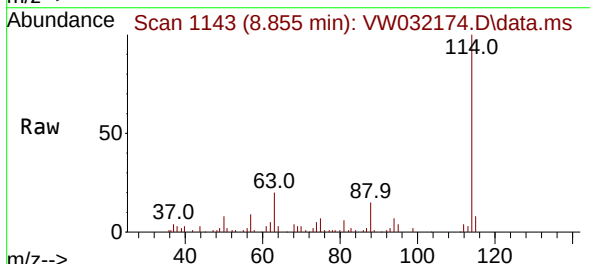
Instrument :  
 MSVOA\_W  
 ClientSampleId :

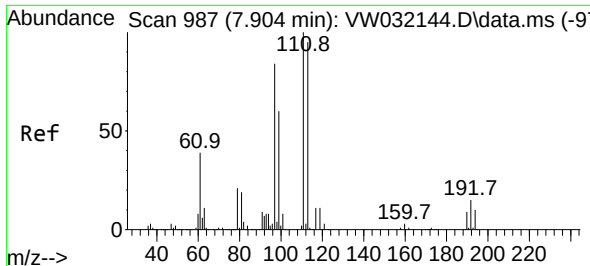
Tgt Ion: 65 Resp: 11019  
 Ion Ratio Lower Upper  
 65 100  
 67 50.3 0.0 99.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.855 min Scan# 1143  
 Delta R.T. -0.000 min  
 Lab File: VW032174.D  
 Acq: 15 Sep 2025 15:27

Tgt Ion: 114 Resp: 24853  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 40.4  
 88 14.6 0.0 32.0

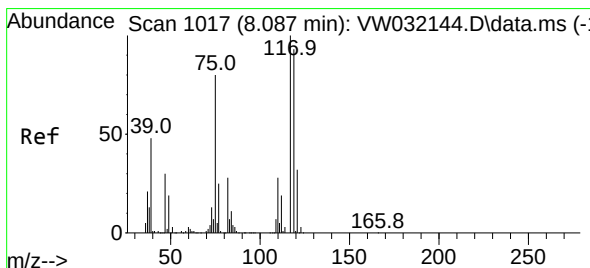
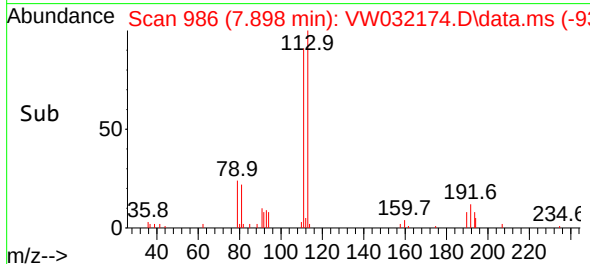
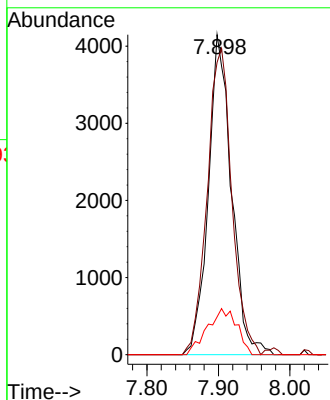
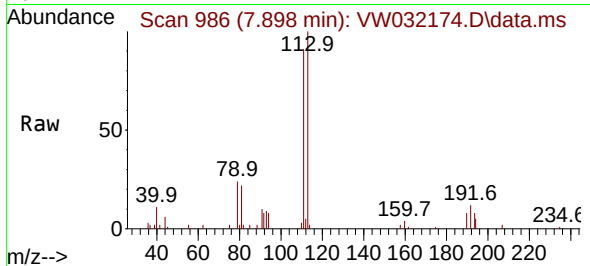




#35  
 Dibromofluoromethane  
 Concen: 53.680 ug/l  
 RT: 7.898 min Scan# 911  
 Delta R.T. -0.006 min  
 Lab File: VW032174.D  
 Acq: 15 Sep 2025 15:27

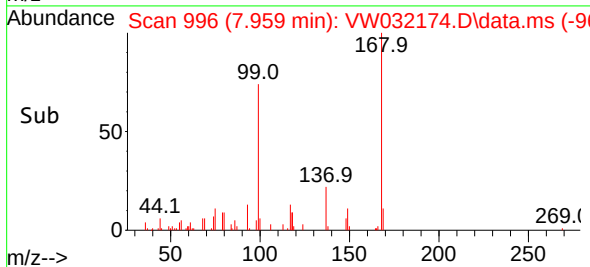
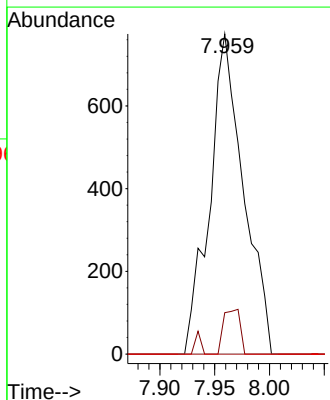
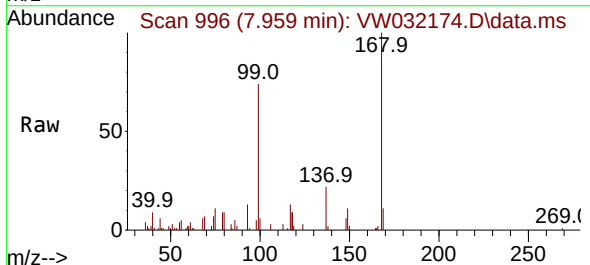
Instrument :  
 MSVOA\_W  
 ClientSampleId :

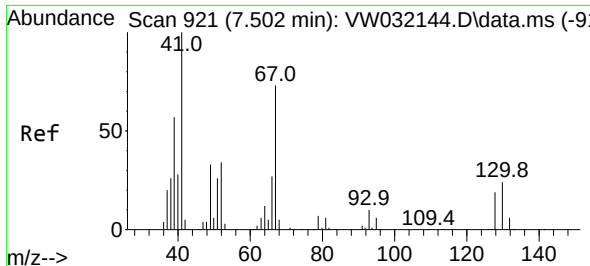
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.9 | 83.9  | 125.9 |
| 192     | 18.3  | 14.6  | 21.8  |



#38  
 Carbon Tetrachloride  
 Concen: 6.878 ug/l  
 RT: 7.959 min Scan# 996  
 Delta R.T. -0.128 min  
 Lab File: VW032174.D  
 Acq: 15 Sep 2025 15:27

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 12.9  | 74.2  | 111.2# |
| 121     | 0.0   | 25.6  | 38.4#  |

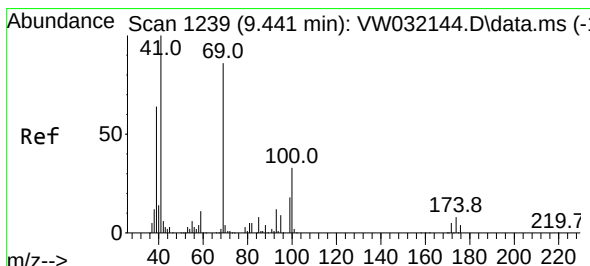
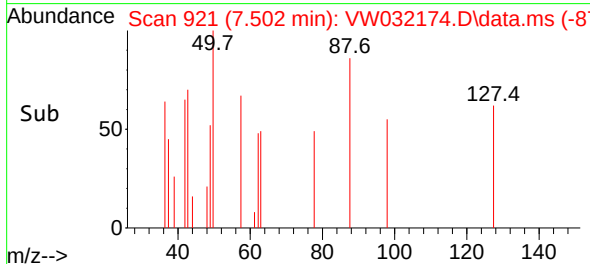
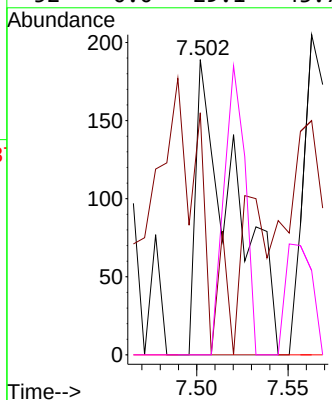
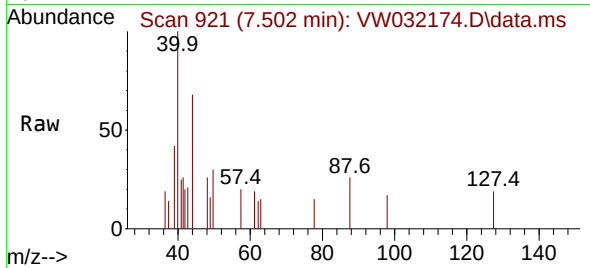




#41  
Methacrylonitrile  
Concen: 3.663 ug/l  
RT: 7.502 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

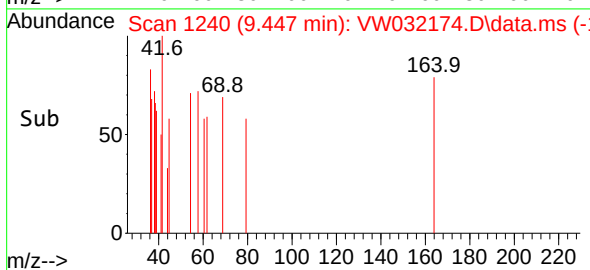
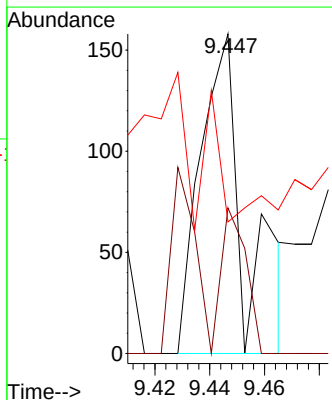
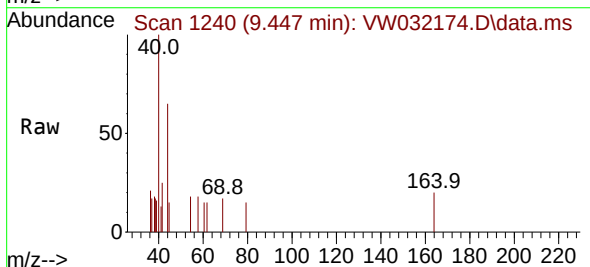
Instrument :  
MSVOA\_W  
ClientSampleId :

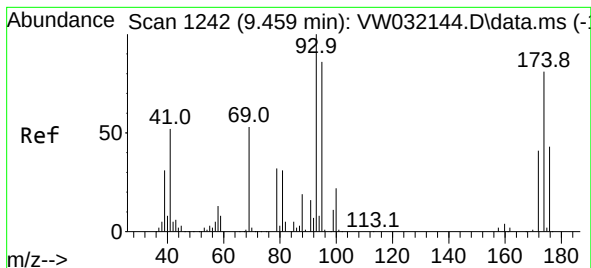
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 276   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 97.5     | 50.9 76.3#  |
| 67 0.0      | 65.6 98.4#  |
| 52 0.0      | 29.1 43.7#  |



#48  
Methyl methacrylate  
Concen: 1.535 ug/l  
RT: 9.447 min Scan# 1240  
Delta R.T. 0.006 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 180   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 25.0     | 71.5 107.3# |
| 39 0.0      | 55.9 83.9#  |





#49

1,4-Dioxane

Concen: 20.313 ug/l

RT: 9.441 min Scan# 11

Delta R.T. -0.018 min

Lab File: VW032174.D

Acq: 15 Sep 2025 15:27

Instrument :

MSVOA\_W

ClientSampleId :

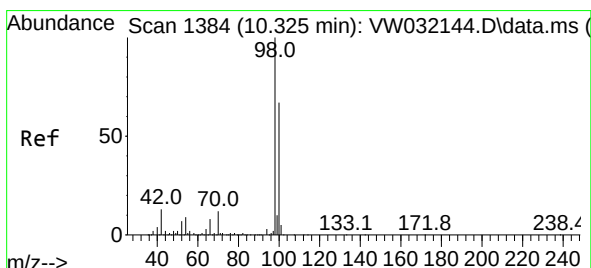
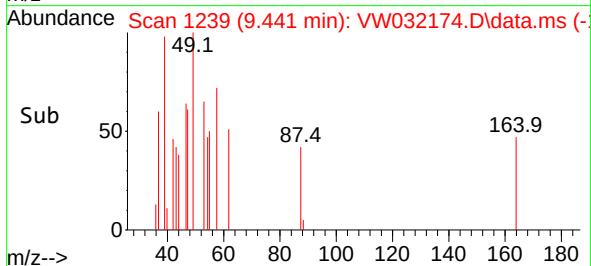
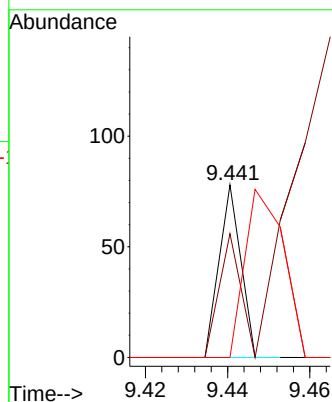
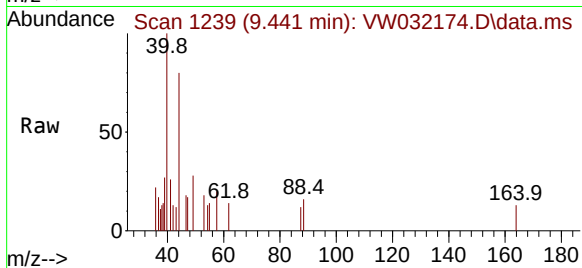
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 0.0 18.0 27.0#

58 169.0 55.4 83.0#



#50

Toluene-d8

Concen: 40.827 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032174.D

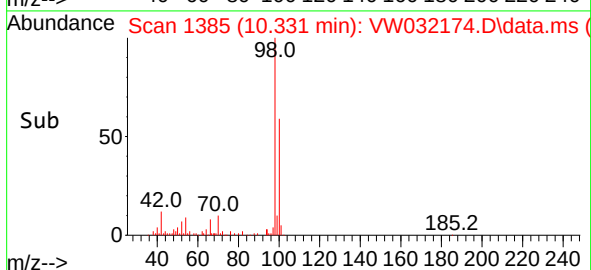
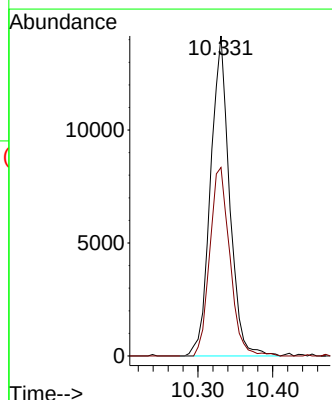
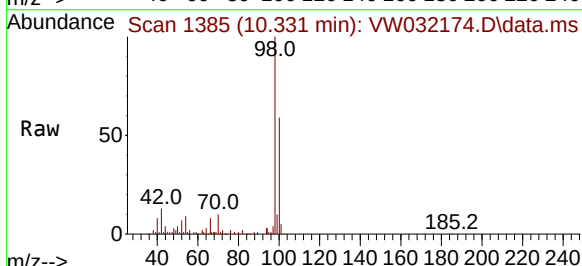
Acq: 15 Sep 2025 15:27

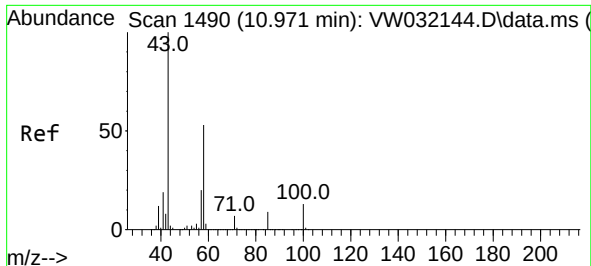
Tgt Ion: 98 Resp: 24991

Ion Ratio Lower Upper

98 100

100 62.3 51.4 77.2

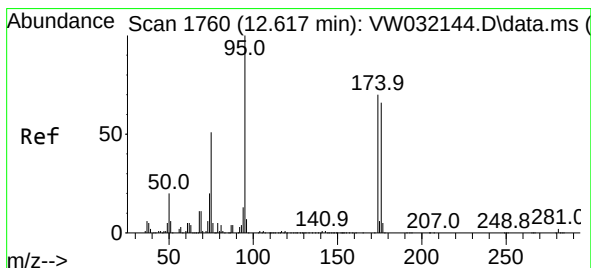
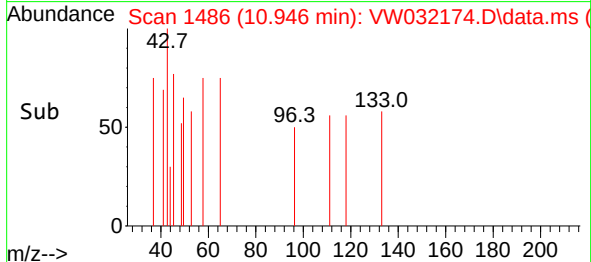
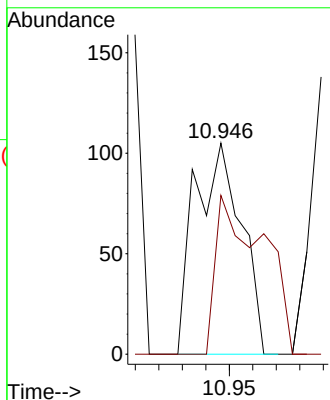
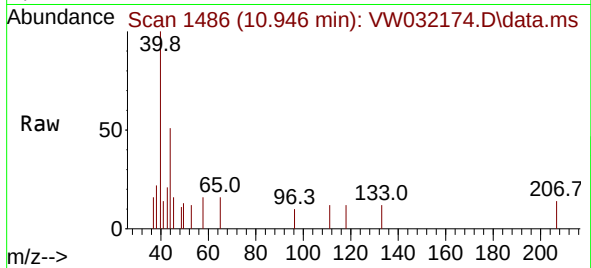




#59  
2-Hexanone  
Concen: 1.441 ug/l  
RT: 10.946 min Scan# 1490  
Delta R.T. -0.025 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

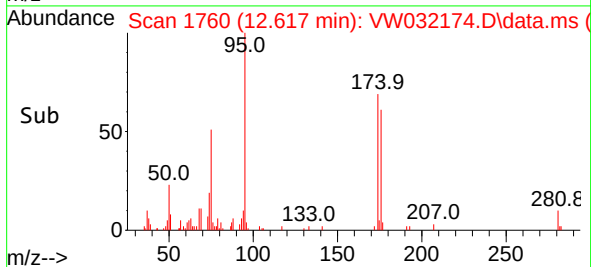
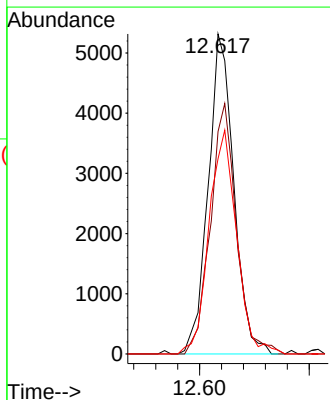
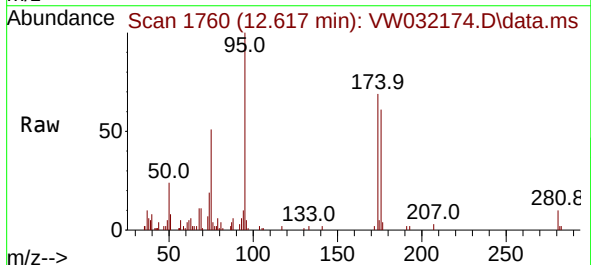
Instrument :  
MSVOA\_W  
ClientSampleId :

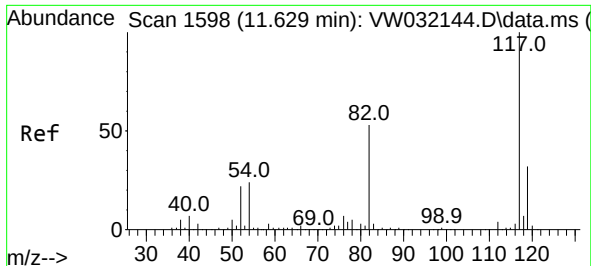
Tgt Ion: 43 Resp: 144  
Ion Ratio Lower Upper  
43 100  
58 76.4 27.5 82.4



#62  
4-Bromofluorobenzene  
Concen: 38.070 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. -0.000 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

Tgt Ion: 95 Resp: 8617  
Ion Ratio Lower Upper  
95 100  
174 79.5 0.0 145.6  
176 75.5 0.0 140.8

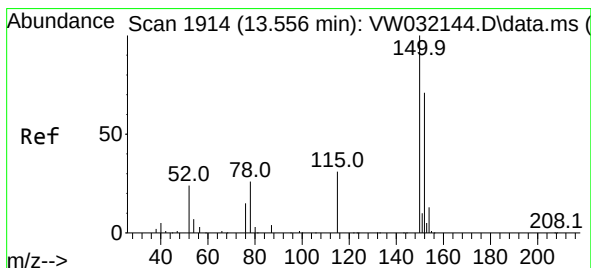
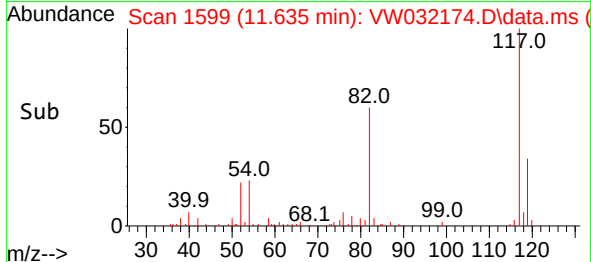
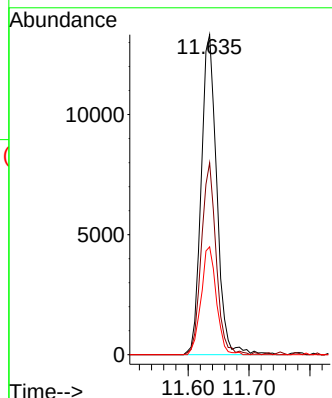
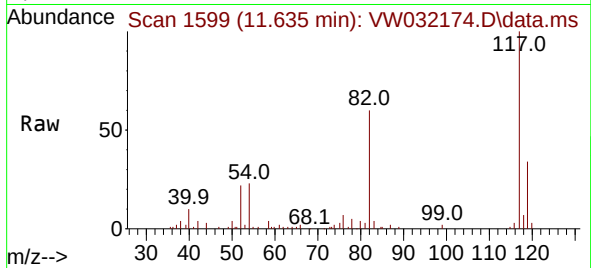




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.635 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

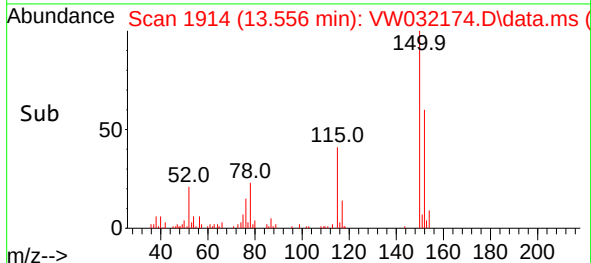
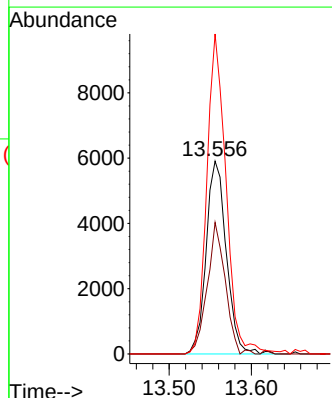
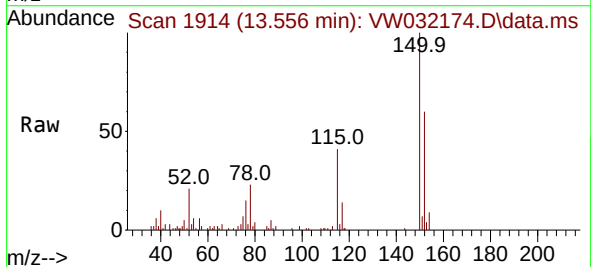
Instrument :  
MSVOA\_W  
ClientSampleId :

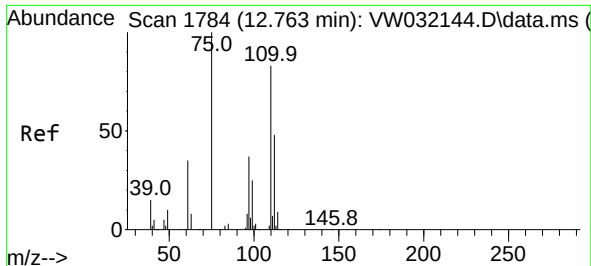
Tgt Ion:117 Resp: 23732  
Ion Ratio Lower Upper  
117 100  
82 60.0 42.7 64.1  
119 33.7 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.556 min Scan# 1914  
Delta R.T. -0.000 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

Tgt Ion:152 Resp: 10090  
Ion Ratio Lower Upper  
152 100  
115 60.9 31.8 95.4  
150 157.3 0.0 343.0

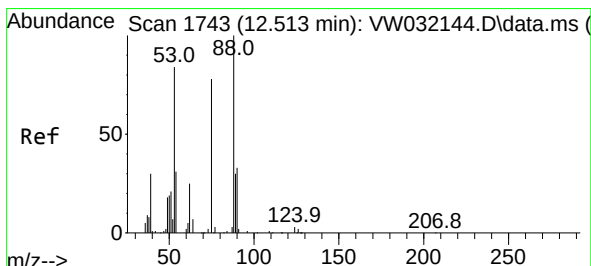
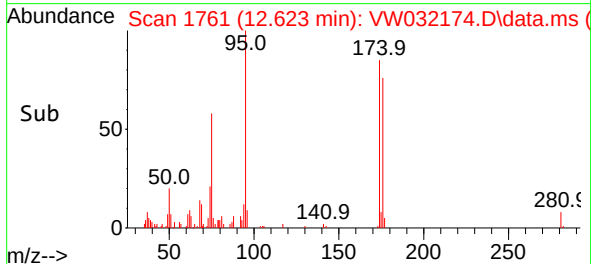
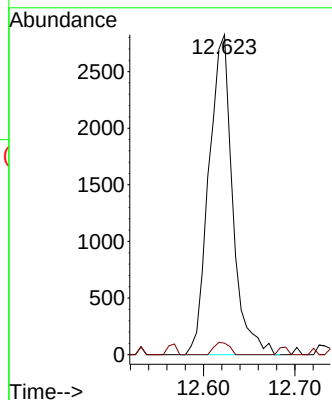
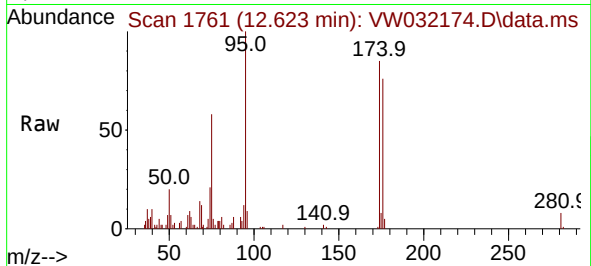




#76  
1,2,3-Trichloropropane  
Concen: 40.338 ug/l  
RT: 12.623 min Scan# 1761  
Delta R.T. -0.140 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion: 75 Resp: 5099  
Ion Ratio Lower Upper  
75 100  
77 2.5 141.7 425.1#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.608 ug/l  
RT: 12.623 min Scan# 1761  
Delta R.T. 0.110 min  
Lab File: VW032174.D  
Acq: 15 Sep 2025 15:27

Tgt Ion: 75 Resp: 5099  
Ion Ratio Lower Upper  
75 100  
53 1.8 91.0 136.6#  
89 0.4 39.4 59.2#

