

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW120825\  
 Data File : VW032598.D  
 Acq On : 08 Dec 2025 15:53  
 Operator : SY/MD  
 Sample : VIBLK  
 Misc : 5.00g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VIBLK

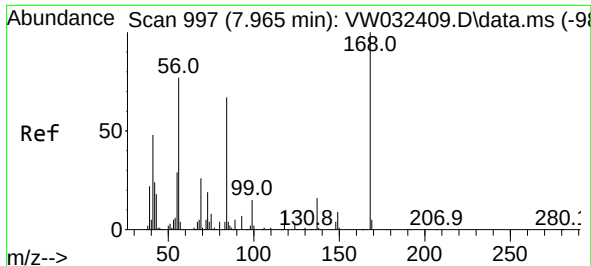
Quant Time: Dec 09 02:20:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W120325S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 04 04:04:32 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.959  | 168   | 310828   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.856  | 114   | 615720   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.629 | 117   | 569115   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.556 | 152   | 255426   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.319  | 65    | 254021   | 54.915   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 63 - 155 | Recovery | = 109.840% |          |
| 35) Dibromofluoromethane      | 7.905  | 113   | 198741   | 49.049   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 70 - 134 | Recovery | = 98.100%  |          |
| 50) Toluene-d8                | 10.325 | 98    | 802226   | 52.617   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 123 | Recovery | = 105.240% |          |
| 62) 4-Bromofluorobenzene      | 12.617 | 95    | 295377   | 52.437   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 17 - 146 | Recovery | = 104.880% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 16) Acetone                   | 4.155  | 43    | 12582    | 8.705    | ug/l #     | 81       |
| 20) Methylene Chloride        | 4.954  | 84    | 26090    | 5.047    | ug/l       | 93       |
| 31) Cyclohexane               | 7.959  | 56    | 8353     | 1.126    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.959  | 75    | 28888    | 4.674    | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 7.965  | 117   | 35629    | 6.205    | ug/l #     | 16       |
| 49) 1,4-Dioxane               | 9.441  | 88    | 43       | 1.272    | ug/l #     | 9        |
| 76) 1,2,3-Trichloropropane    | 12.617 | 75    | 146699   | 42.444   | ug/l #     | 1        |
| 77) Bromobenzene              | 12.855 | 156   | 30290    | 6.763    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617 | 75    | 146699   | 99.827   | ug/l #     | 10       |
| 83) tert-Butylbenzene         | 13.166 | 119   | 26146    | 1.961    | ug/l #     | 24       |
| 85) sec-Butylbenzene          | 13.422 | 105   | 29999    | 1.459    | ug/l #     | 61       |
| 86) p-Isopropyltoluene        | 13.458 | 119   | 17223    | 1.017    | ug/l #     | 50       |
| -----                         |        |       |          |          |            |          |

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

Quant Time: Dec 09 02:20:40 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W120325S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 04 04:04:32 2025  
Response via : Initial Calibration

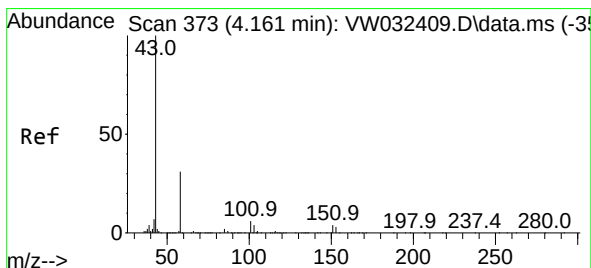
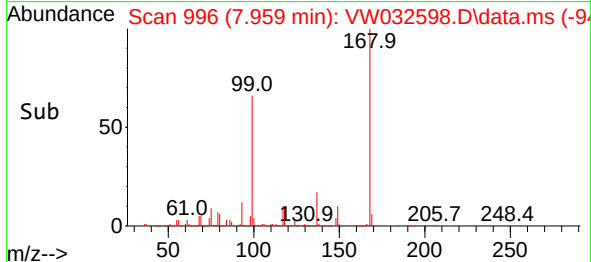
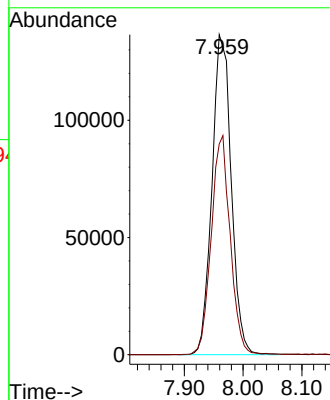
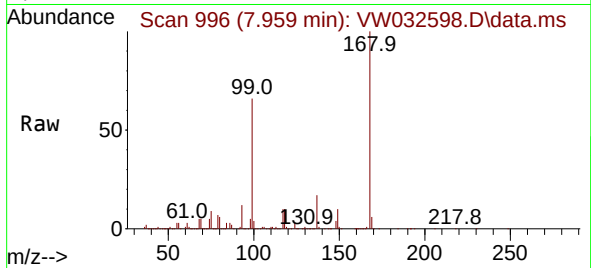




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.006 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

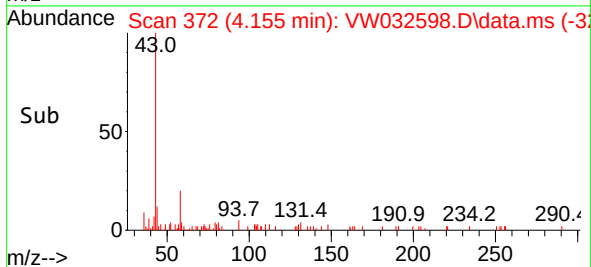
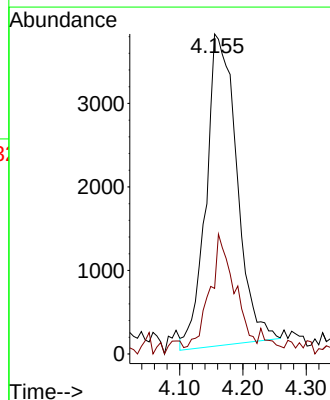
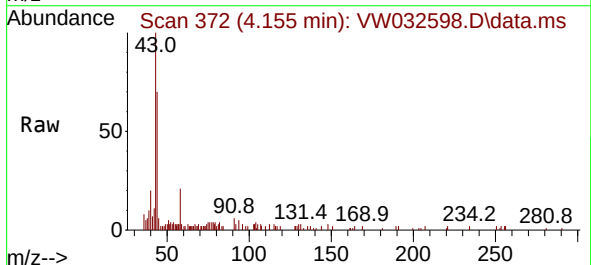
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK

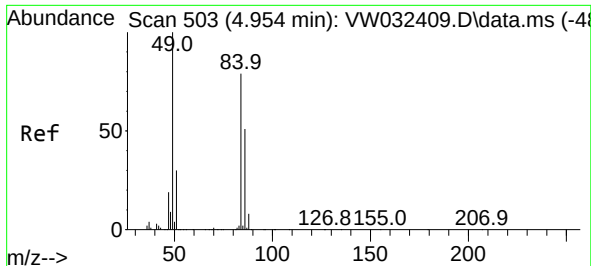
Tgt Ion:168 Resp: 310828  
Ion Ratio Lower Upper  
168 100  
99 65.9 51.8 77.8



#16  
Acetone  
Concen: 8.705 ug/l  
RT: 4.155 min Scan# 372  
Delta R.T. -0.006 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

Tgt Ion: 43 Resp: 12582  
Ion Ratio Lower Upper  
43 100  
58 19.0 23.5 35.3#

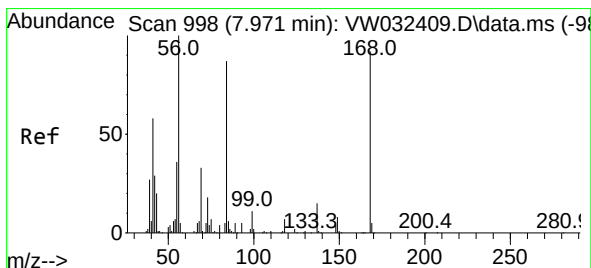
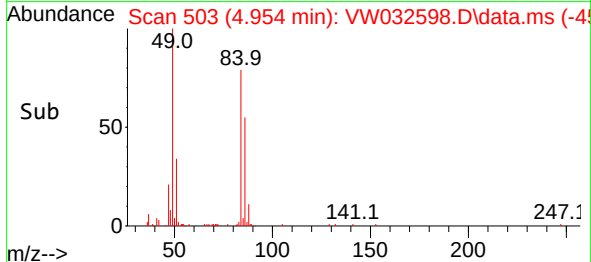
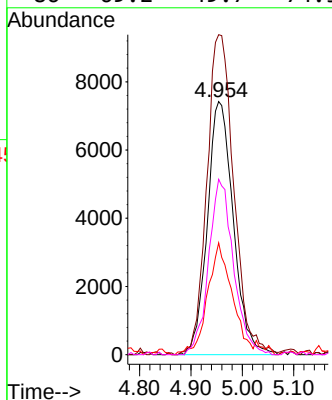
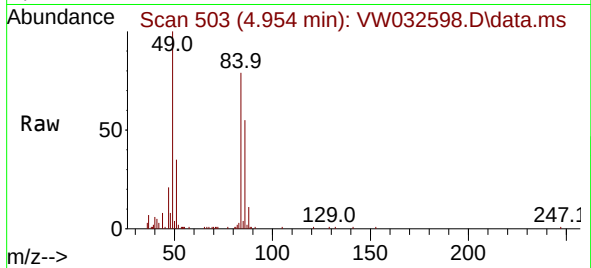




#20  
Methylene Chloride  
Concen: 5.047 ug/l  
RT: 4.954 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

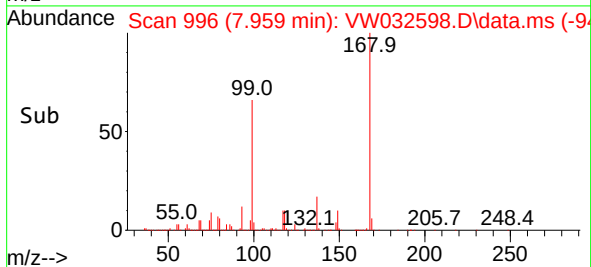
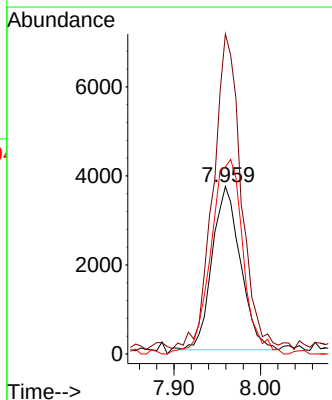
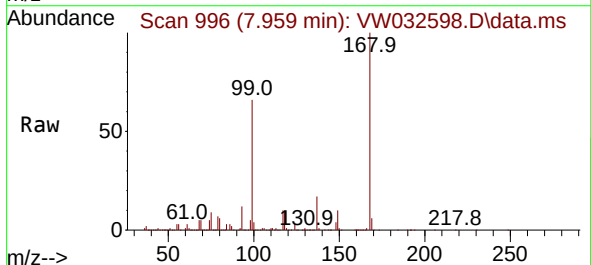
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK

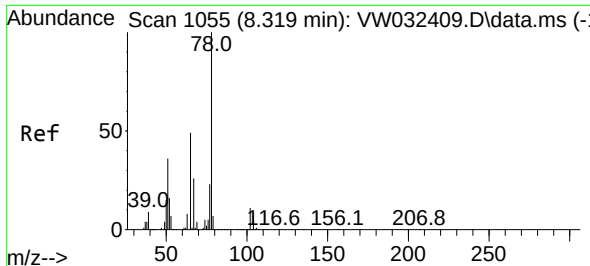
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 26090 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 126.4 | 107.6 | 161.4 |
| 51       | 44.2  | 33.9  | 50.9  |
| 86       | 69.2  | 49.7  | 74.5  |



#31  
Cyclohexane  
Concen: 1.126 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 8353   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 190.6 | 27.3  | 40.9#  |
| 84       | 112.3 | 67.5  | 101.3# |

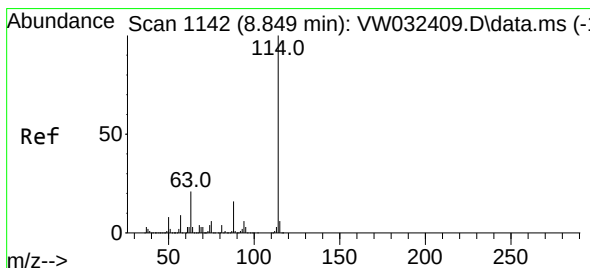
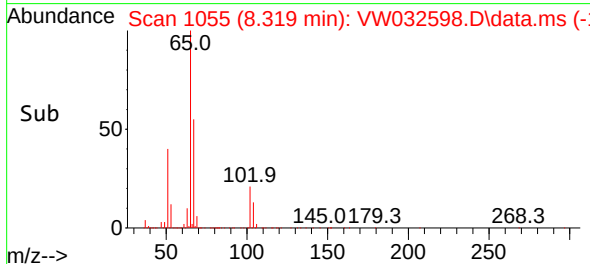
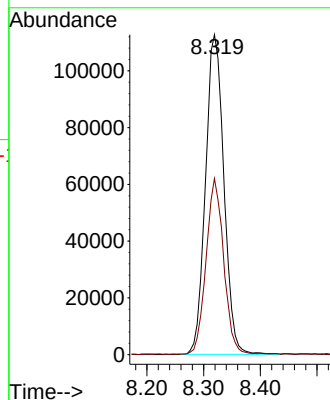
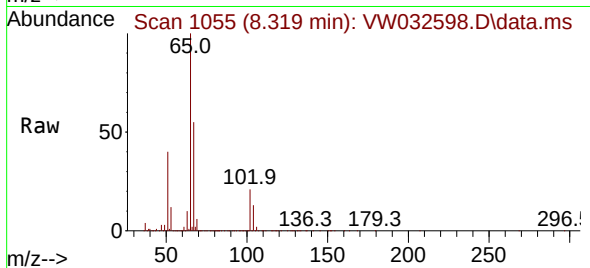




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.915 ug/l  
 RT: 8.319 min Scan# 1055  
 Delta R.T. 0.000 min  
 Lab File: VW032598.D  
 Acq: 08 Dec 2025 15:53

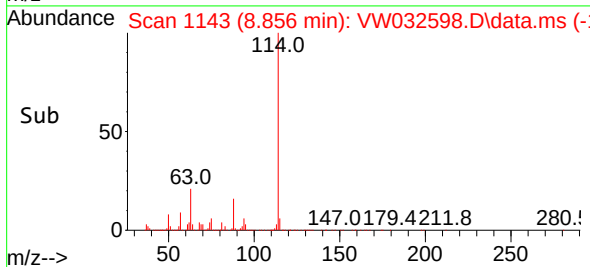
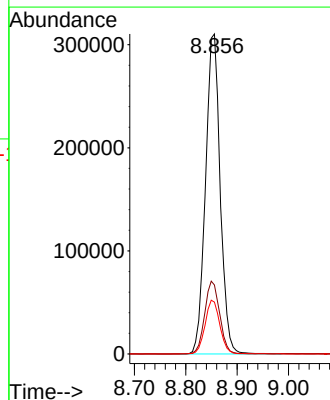
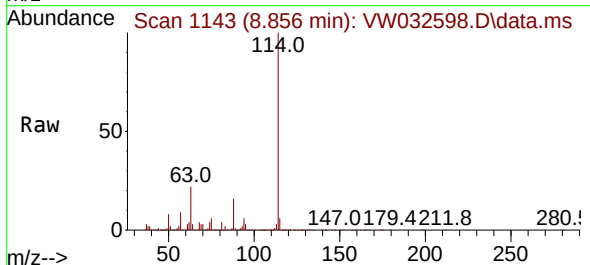
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VIBLK

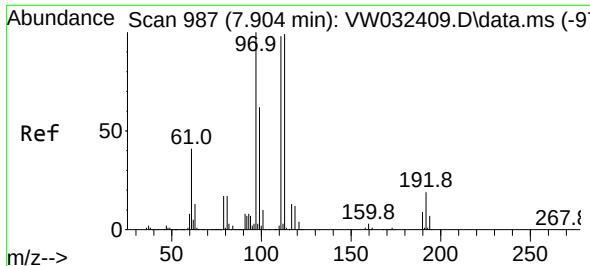
Tgt Ion: 65 Resp: 254021  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 108.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.856 min Scan# 1143  
 Delta R.T. 0.000 min  
 Lab File: VW032598.D  
 Acq: 08 Dec 2025 15:53

Tgt Ion: 114 Resp: 615720  
 Ion Ratio Lower Upper  
 114 100  
 63 21.5 0.0 40.6  
 88 16.2 0.0 31.2

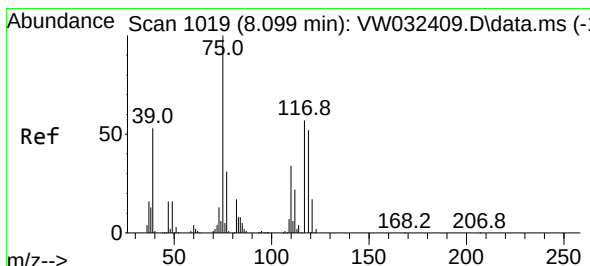
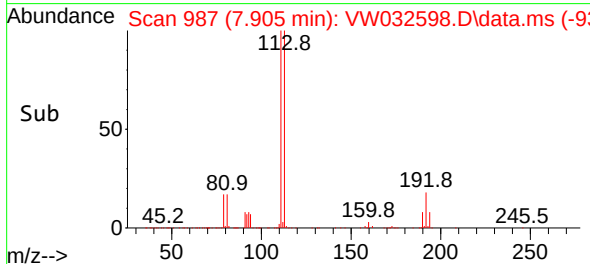
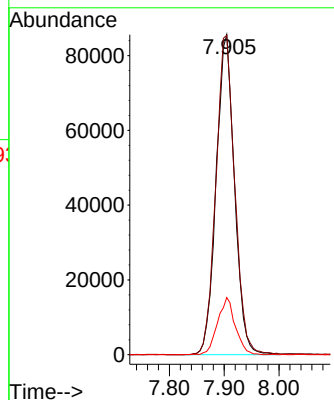
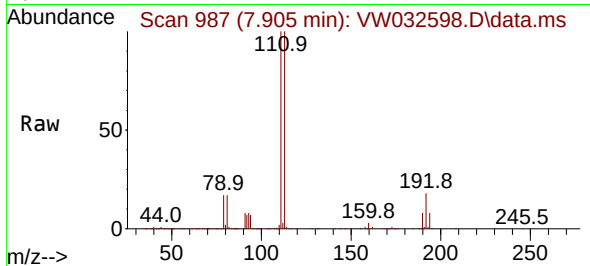




#35  
 Dibromofluoromethane  
 Concen: 49.049 ug/l  
 RT: 7.905 min Scan# 911  
 Delta R.T. 0.000 min  
 Lab File: VW032598.D  
 Acq: 08 Dec 2025 15:53

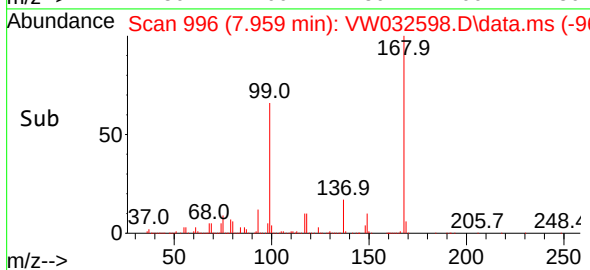
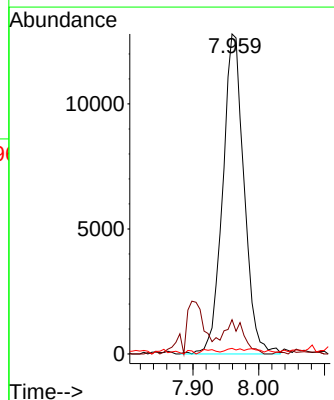
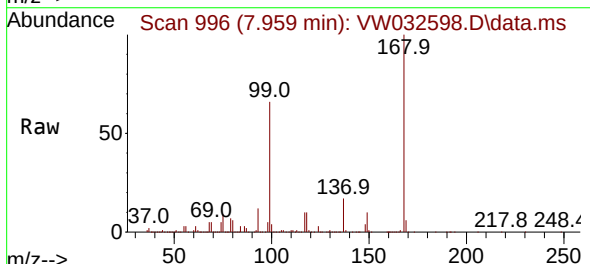
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VIBLK

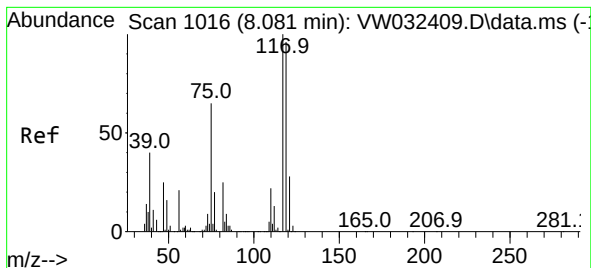
Tgt Ion:113 Resp: 198741  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 83.4 125.0  
 192 17.3 13.4 20.2



#36  
 1,1-Dichloropropene  
 Concen: 4.674 ug/l  
 RT: 7.959 min Scan# 996  
 Delta R.T. -0.134 min  
 Lab File: VW032598.D  
 Acq: 08 Dec 2025 15:53

Tgt Ion: 75 Resp: 28888  
 Ion Ratio Lower Upper  
 75 100  
 110 9.0 16.9 50.6#  
 77 0.7 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.205 ug/l

RT: 7.965 min Scan# 91

Delta R.T. -0.116 min

Lab File: VW032598.D

Acq: 08 Dec 2025 15:53

Instrument :

MSVOA\_W

ClientSampleId :

VIBLK

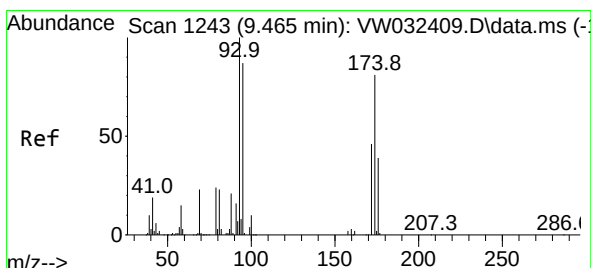
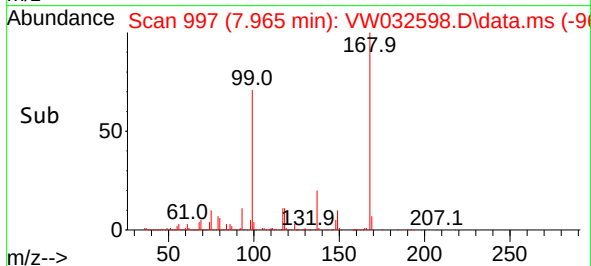
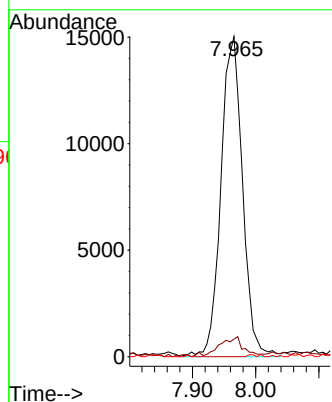
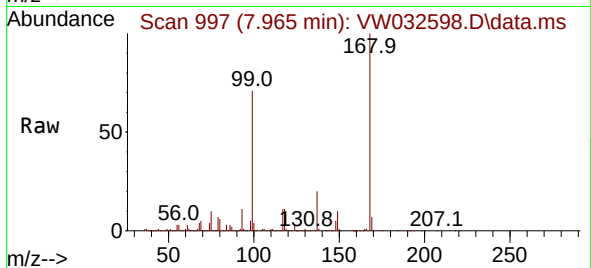
Tgt Ion:117 Resp: 35629

Ion Ratio Lower Upper

117 100

119 5.1 76.9 115.3#

121 0.0 25.4 38.2#



#49

1,4-Dioxane

Concen: 1.272 ug/l

RT: 9.441 min Scan# 1239

Delta R.T. -0.018 min

Lab File: VW032598.D

Acq: 08 Dec 2025 15:53

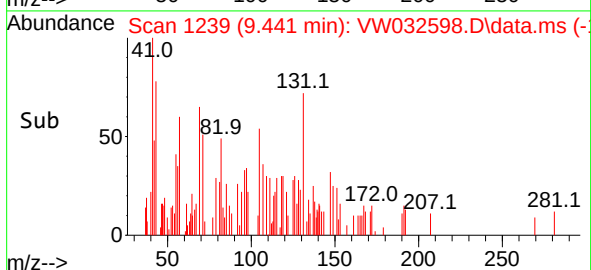
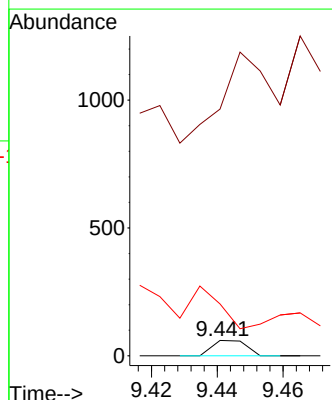
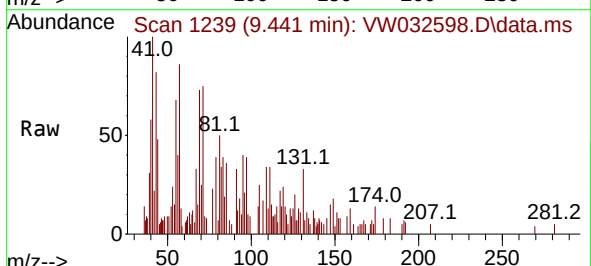
Tgt Ion: 88 Resp: 43

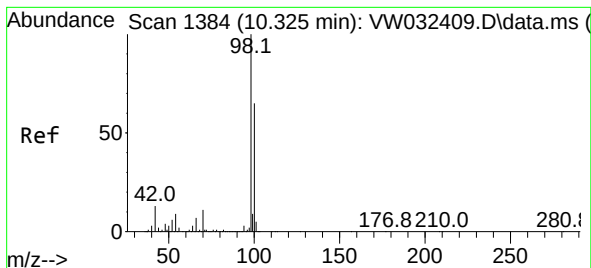
Ion Ratio Lower Upper

88 100

43 1002.3 0.0 0.0#

58 0.0 65.2 97.8#

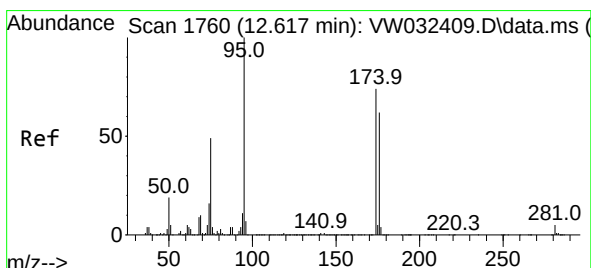
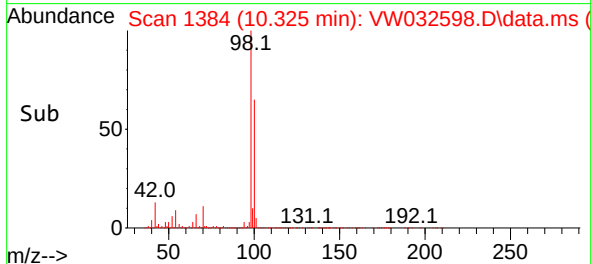
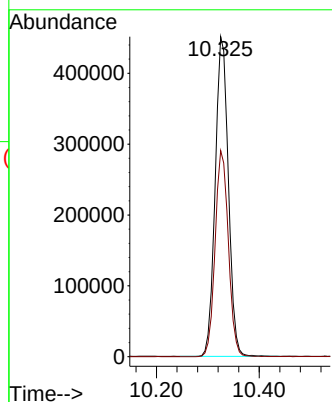
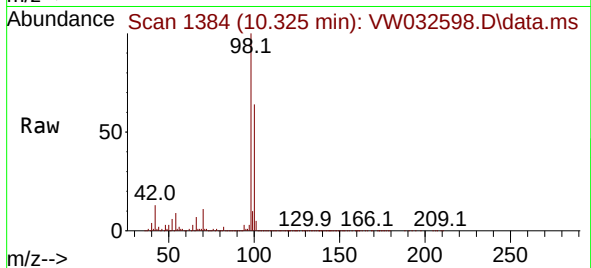




#50  
Toluene-d8  
Concen: 52.617 ug/l  
RT: 10.325 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

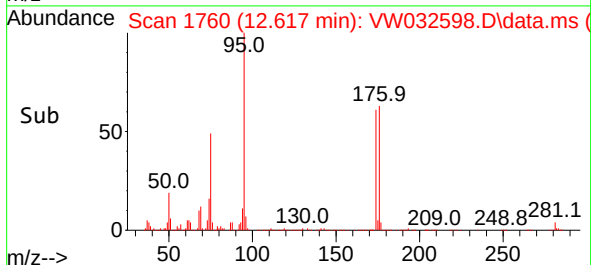
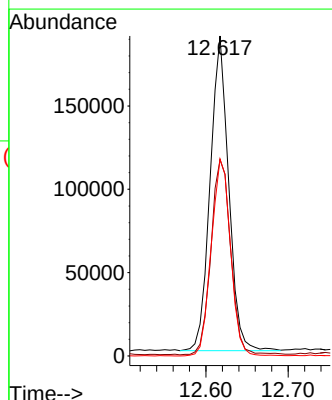
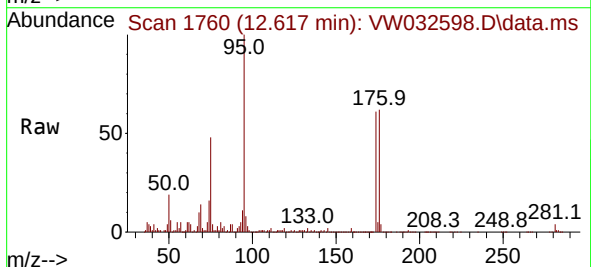
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK

Tgt Ion: 98 Resp: 802226  
Ion Ratio Lower Upper  
98 100  
100 64.9 54.7 82.1

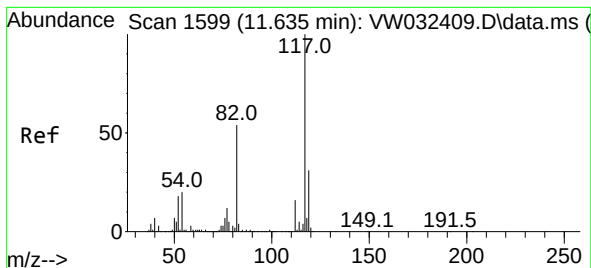


#62  
4-Bromofluorobenzene  
Concen: 52.437 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.000 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

Tgt Ion: 95 Resp: 295377  
Ion Ratio Lower Upper  
95 100  
174 66.3 0.0 141.2  
176 65.2 0.0 130.8



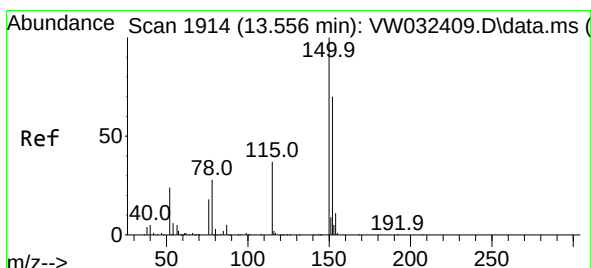
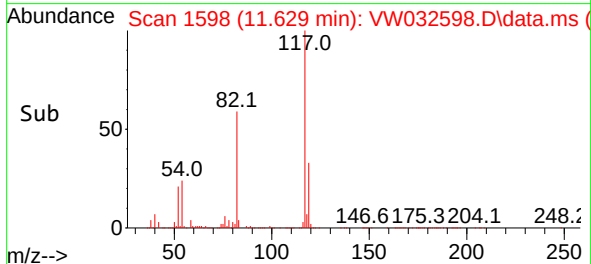
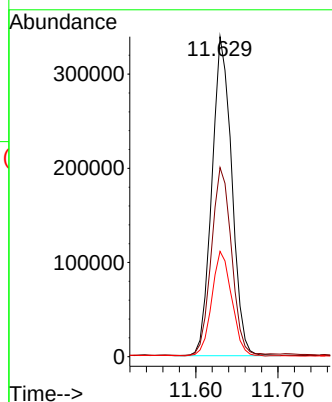
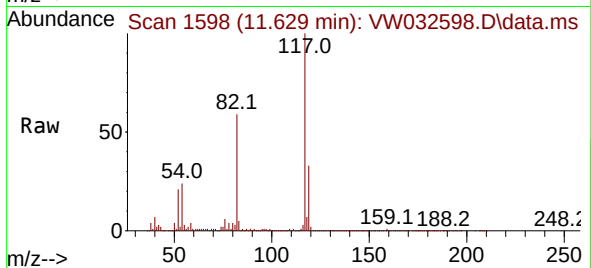




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.629 min Scan# 1159  
Delta R.T. -0.006 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

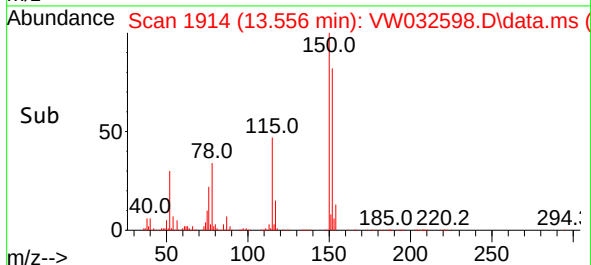
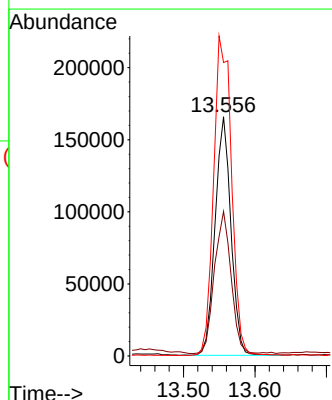
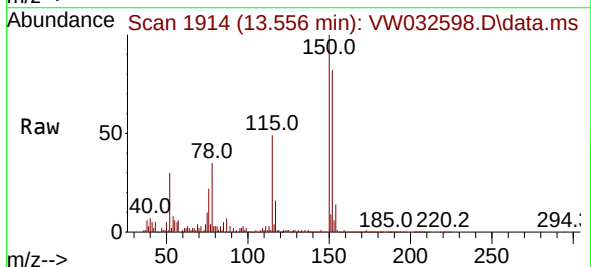
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK

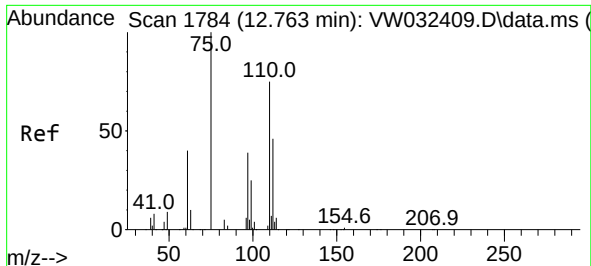
Tgt Ion:117 Resp: 569115  
Ion Ratio Lower Upper  
117 100  
82 58.9 45.9 68.9  
119 32.7 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.556 min Scan# 1914  
Delta R.T. 0.000 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

Tgt Ion:152 Resp: 255426  
Ion Ratio Lower Upper  
152 100  
115 62.1 31.1 93.3  
150 151.0 0.0 351.2

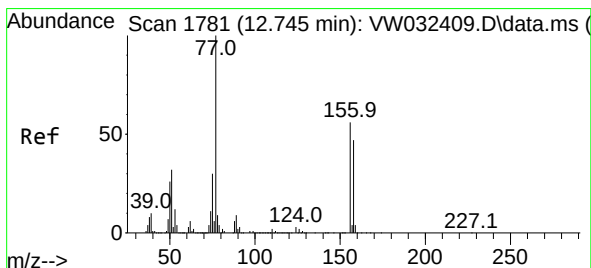
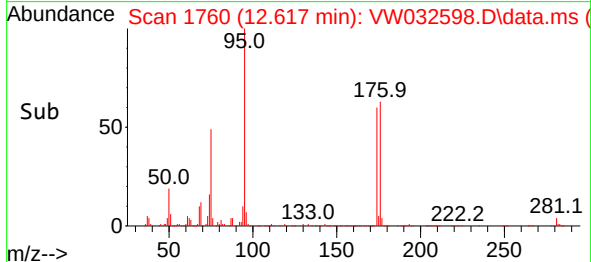
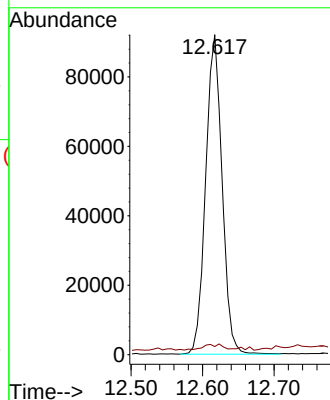
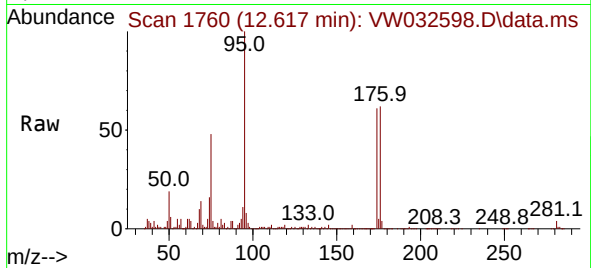




#76  
1,2,3-Trichloropropane  
Concen: 42.444 ug/l  
RT: 12.617 min Scan# 1799  
Delta R.T. -0.146 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

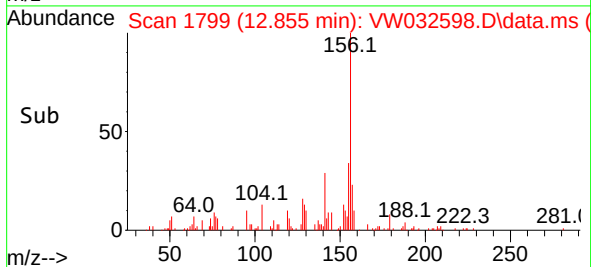
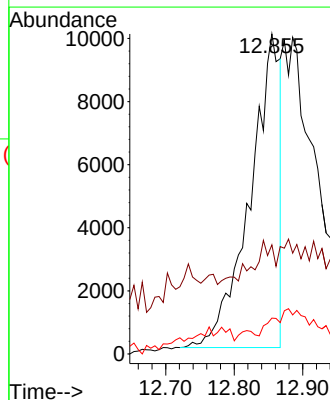
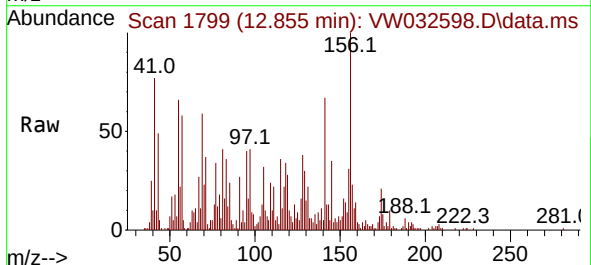
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK

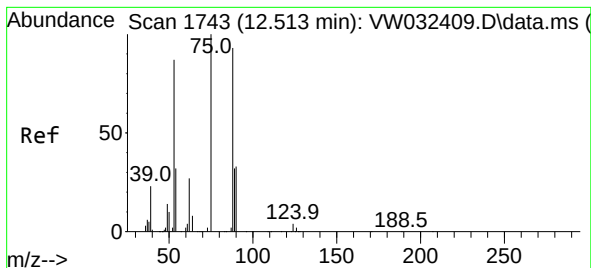
Tgt Ion: 75 Resp: 146699  
Ion Ratio Lower Upper  
75 100  
77 2.1 148.2 444.4#



#77  
Bromobenzene  
Concen: 6.763 ug/l  
RT: 12.855 min Scan# 1799  
Delta R.T. 0.110 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

Tgt Ion:156 Resp: 30290  
Ion Ratio Lower Upper  
156 100  
77 7.2 115.9 347.7#  
158 0.0 50.7 152.1#

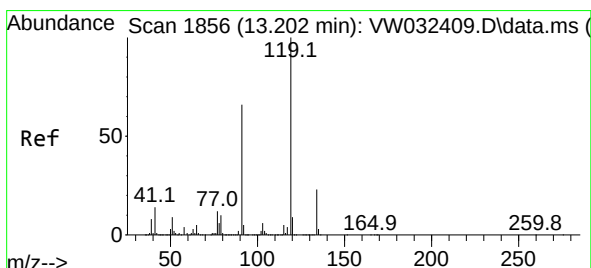
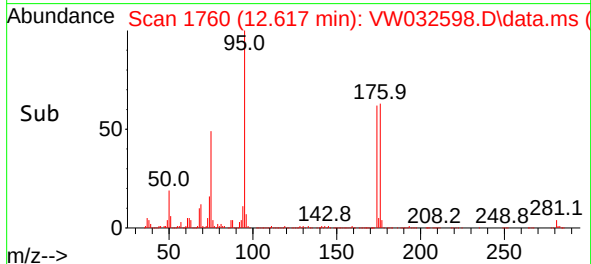
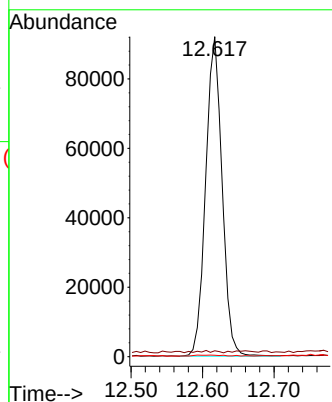
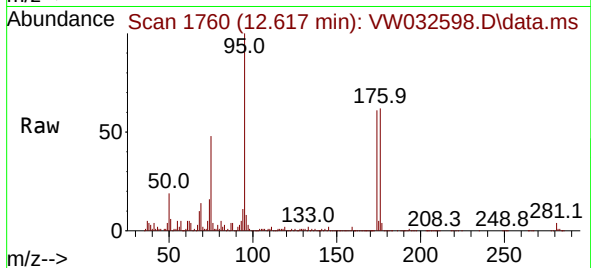




#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.827 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.104 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

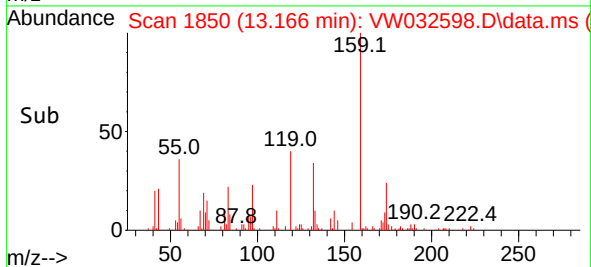
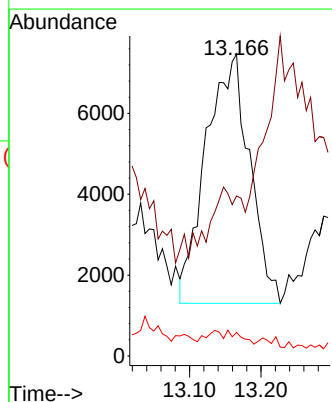
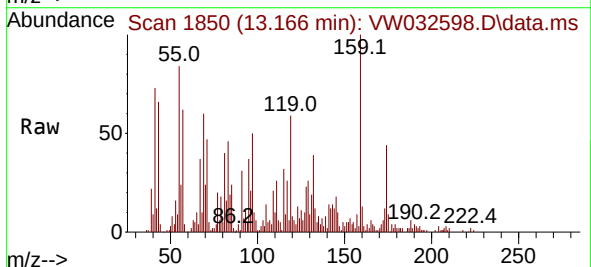
Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK

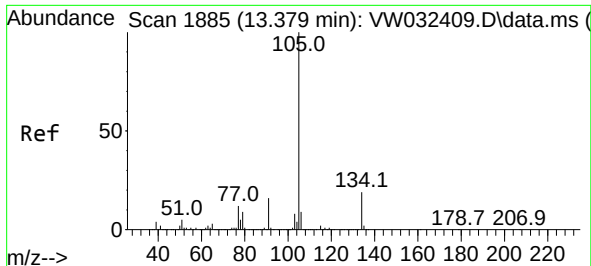
Tgt Ion: 75 Resp: 146699  
Ion Ratio Lower Upper  
75 100  
53 0.4 80.8 121.2#  
89 0.5 31.4 47.2#



#83  
tert-Butylbenzene  
Concen: 1.961 ug/l  
RT: 13.166 min Scan# 1850  
Delta R.T. -0.037 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

Tgt Ion: 119 Resp: 26146  
Ion Ratio Lower Upper  
119 100  
91 0.0 34.6 103.9#  
134 0.0 12.5 37.5#

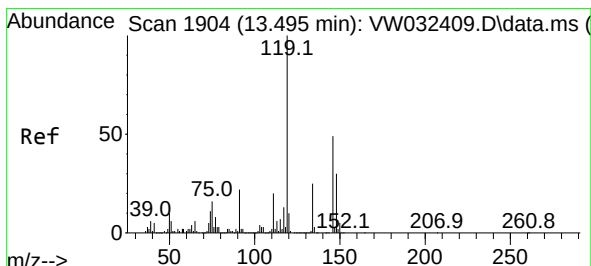
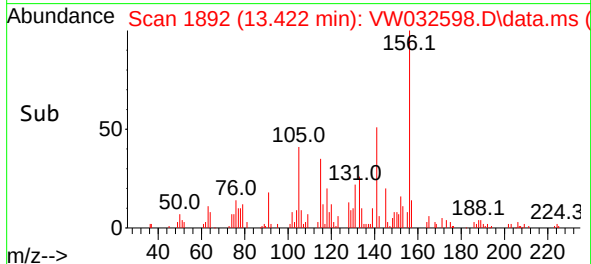
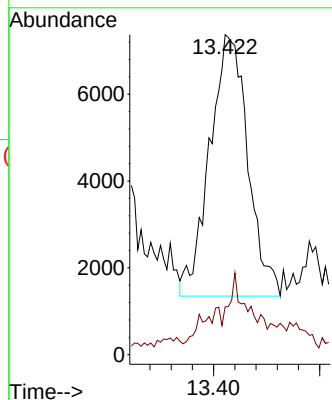
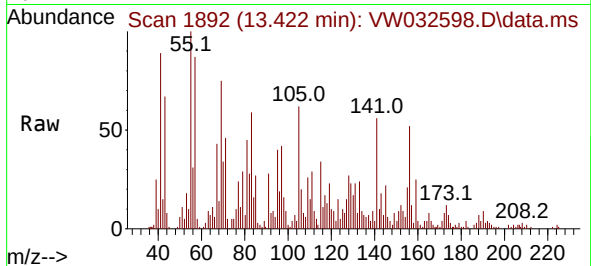




#85  
sec-Butylbenzene  
Concen: 1.459 ug/l  
RT: 13.422 min Scan# 1892  
Delta R.T. 0.043 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VIBLK

Tgt Ion:105 Resp: 29999  
Ion Ratio Lower Upper  
105 100  
134 1.3 9.4 28.3#



#86  
p-Isopropyltoluene  
Concen: 1.017 ug/l  
RT: 13.458 min Scan# 1898  
Delta R.T. -0.037 min  
Lab File: VW032598.D  
Acq: 08 Dec 2025 15:53

Tgt Ion:119 Resp: 17223  
Ion Ratio Lower Upper  
119 100  
134 0.0 13.0 38.9#  
91 0.0 12.3 36.9#

