

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121222\  
 Data File : VN075721.D  
 Acq On : 12 Dec 2022 18:29  
 Operator : JC\MD  
 Sample : N5978-04  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TOLL-MW-05

Quant Time: Dec 13 01:34:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120922W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 12 07:54:35 2022  
 Response via : Initial Calibration

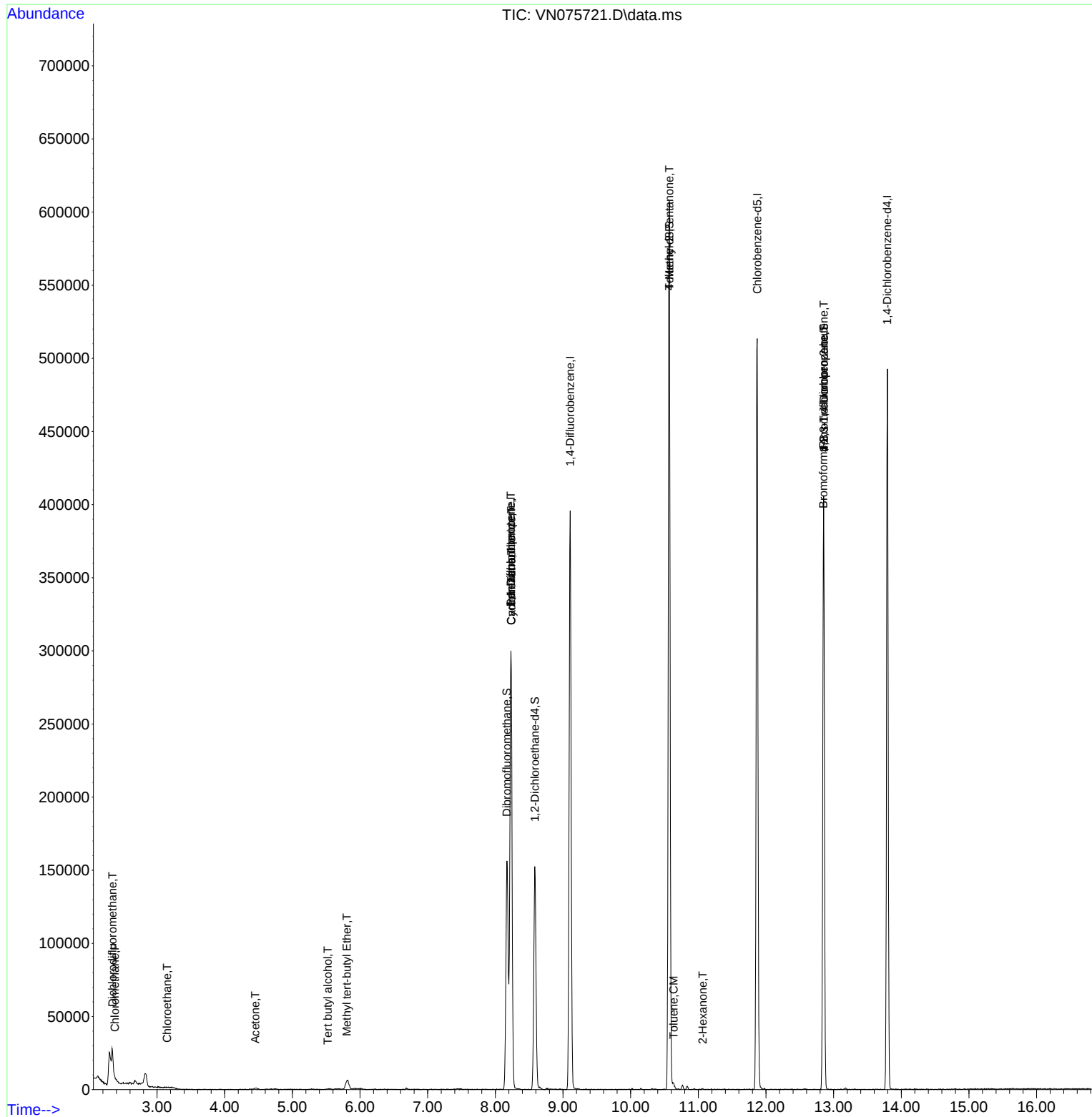
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 239794     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 367689     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 327302     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 141134     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 122672     | 48.215   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 96.420%  |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 111002     | 49.481   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 98.960%  |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 434019     | 51.518   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 103.040% |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 135836     | 47.158   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 94.320%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 2.342          | 85   | 1638       | 0.929    | ug/l   | 99       |
| 3) Chloromethane              | 2.377          | 50   | 522        | 0.248    | ug/l # | 40       |
| 6) Chloroethane               | 3.148          | 64   | 446        | 0.232    | ug/l # | 43       |
| 11) Tert butyl alcohol        | 5.524          | 59   | 286        | 0.760    | ug/l # | 72       |
| 16) Acetone                   | 4.454          | 43   | 925        | 1.074    | ug/l   | 96       |
| 19) Methyl tert-butyl Ether   | 5.806          | 73   | 11556      | 1.672    | ug/l # | 88       |
| 31) Cyclohexane               | 8.236          | 56   | 4460       | 1.184    | ug/l # | 2        |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 17472      | 5.865    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.236          | 117  | 22991      | 6.689    | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.571         | 43   | 1680       | 0.682    | ug/l # | 1        |
| 52) Toluene                   | 10.636         | 92   | 1665       | 0.276    | ug/l   | 99       |
| 59) 2-Hexanone                | 11.065         | 43   | 590        | 0.330    | ug/l # | 20       |
| 71) Bromoform                 | 12.847         | 173  | 842        | 0.453    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 68176      | 24.054   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 68176      | 76.845   | ug/l # | 13       |
| -----                         |                |      |            |          |        |          |

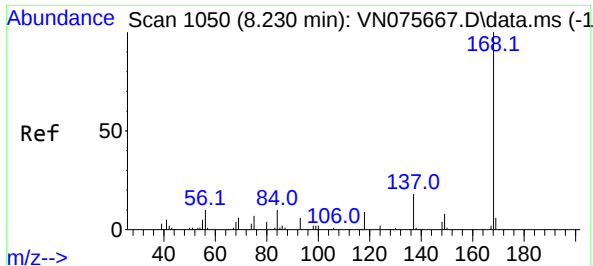
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121222\  
Data File : VN075721.D  
Acq On : 12 Dec 2022 18:29  
Operator : JC\MD  
Sample : N5978-04  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

Quant Time: Dec 13 01:34:34 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120922W.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 12 07:54:35 2022  
Response via : Initial Calibration

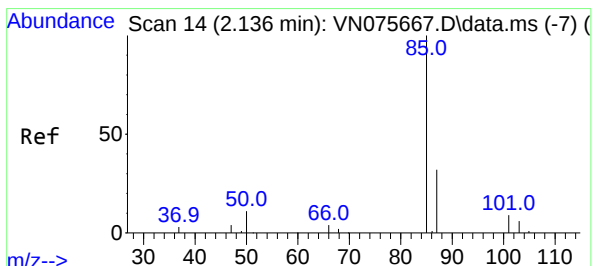
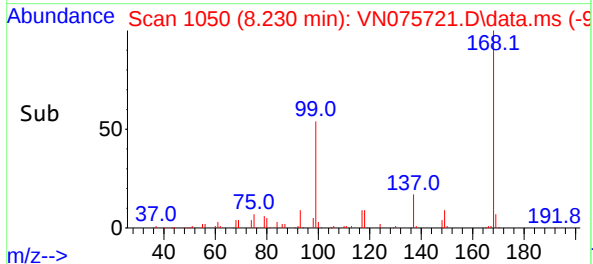
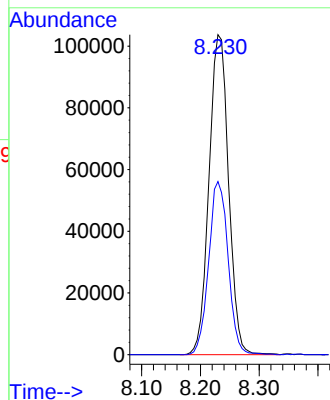
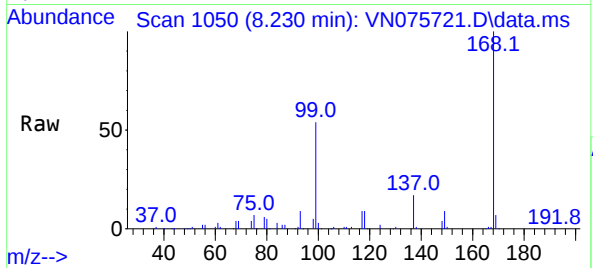




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

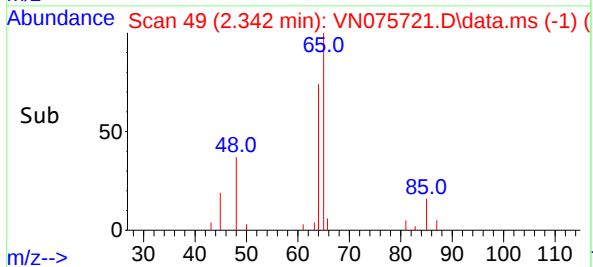
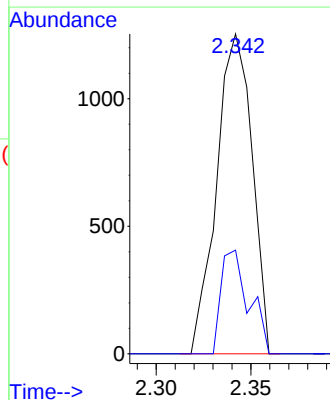
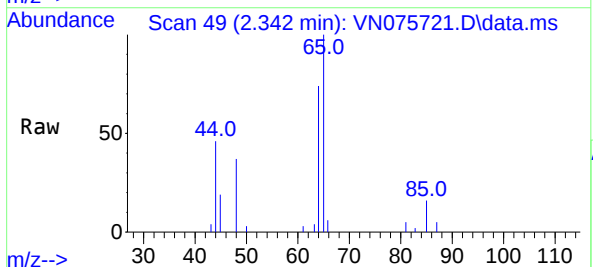
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

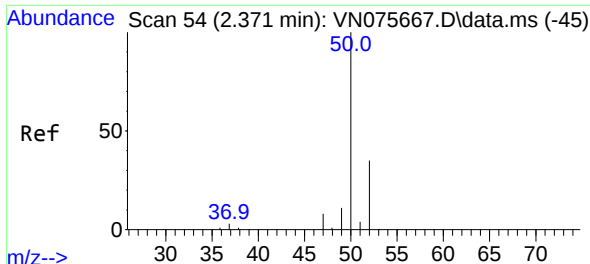
Tgt Ion:168 Resp: 239794  
Ion Ratio Lower Upper  
168 100  
99 54.1 41.2 61.8



#2  
Dichlorodifluoromethane  
Concen: 0.929 ug/l  
RT: 2.342 min Scan# 49  
Delta R.T. 0.206 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion: 85 Resp: 1638  
Ion Ratio Lower Upper  
85 100  
87 32.5 16.1 48.2

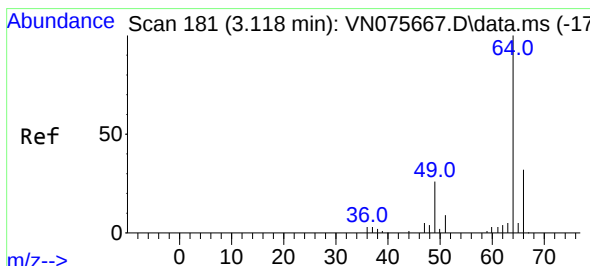
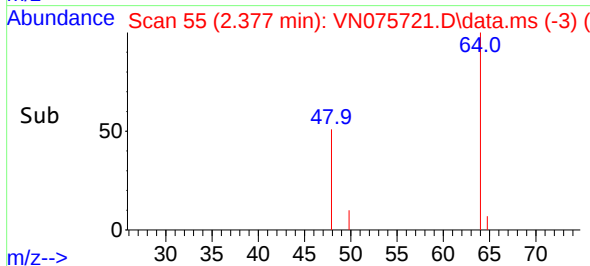
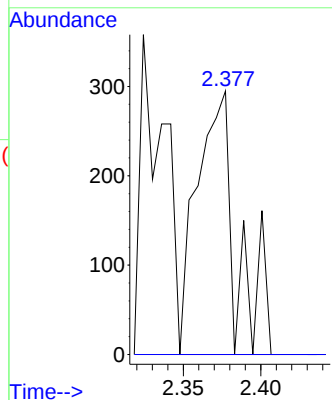
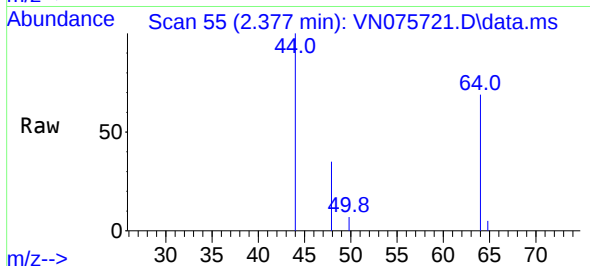




#3  
Chloromethane  
Concen: 0.248 ug/l  
RT: 2.377 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

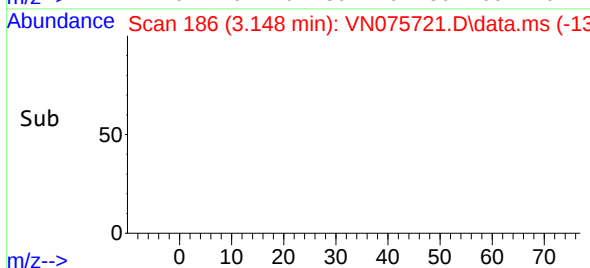
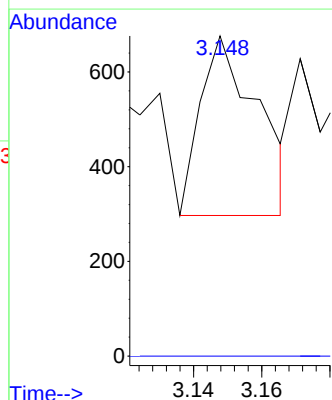
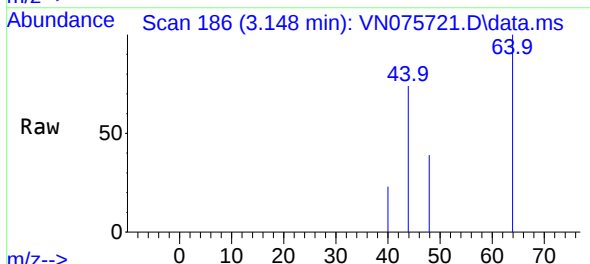
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

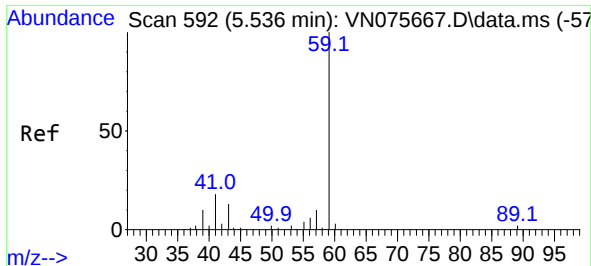
Tgt Ion: 50 Resp: 522  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.9 41.9#



#6  
Chloroethane  
Concen: 0.232 ug/l  
RT: 3.148 min Scan# 186  
Delta R.T. 0.030 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion: 64 Resp: 446  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.7 38.5#

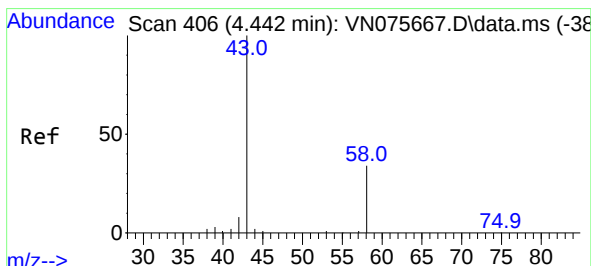
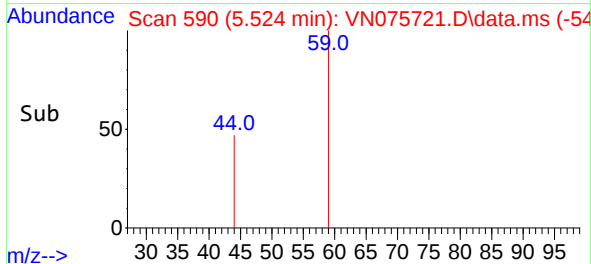
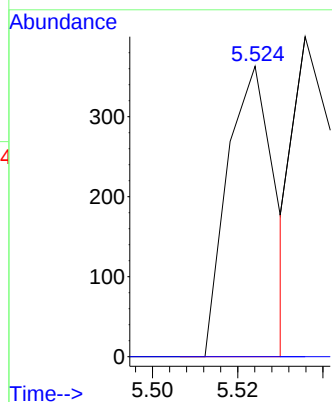
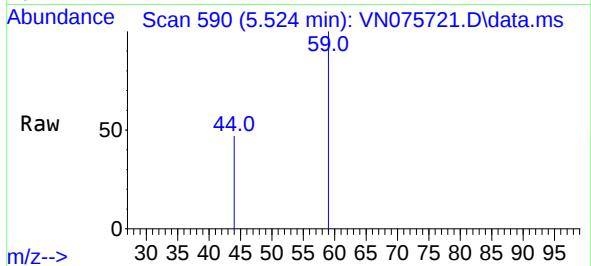




#11  
Tert butyl alcohol  
Concen: 0.760 ug/l  
RT: 5.524 min Scan# 591  
Delta R.T. -0.012 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

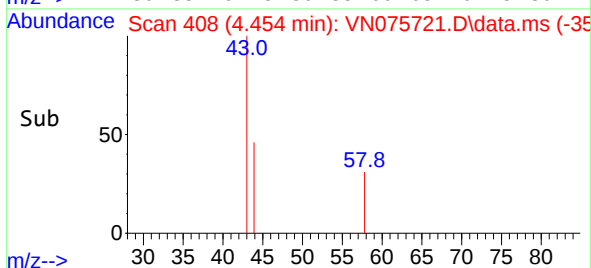
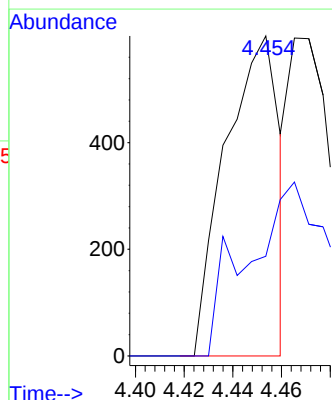
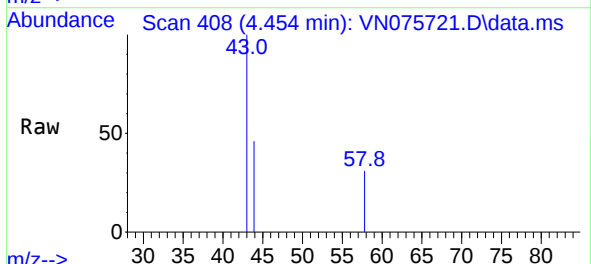
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

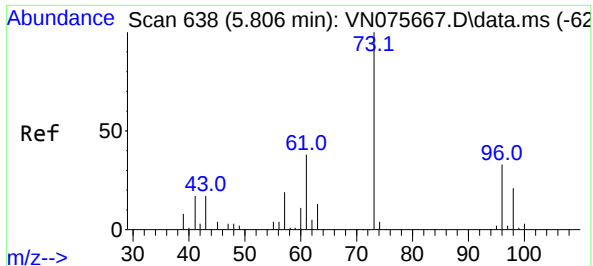
Tgt Ion: 59 Resp: 286  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#16  
Acetone  
Concen: 1.074 ug/l  
RT: 4.454 min Scan# 408  
Delta R.T. 0.012 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion: 43 Resp: 925  
Ion Ratio Lower Upper  
43 100  
58 31.2 27.0 40.4

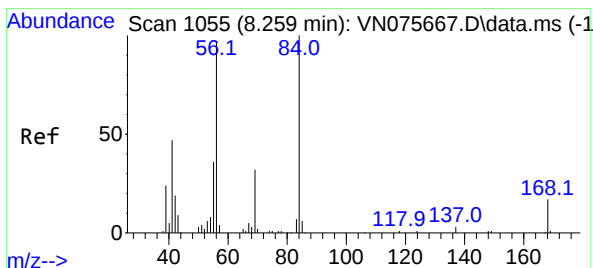
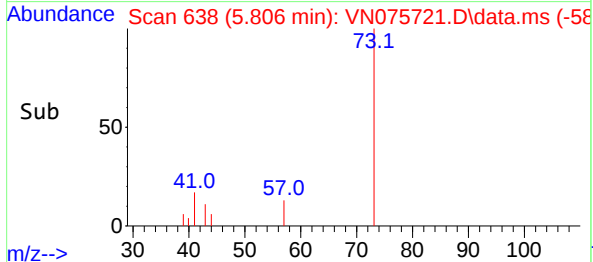
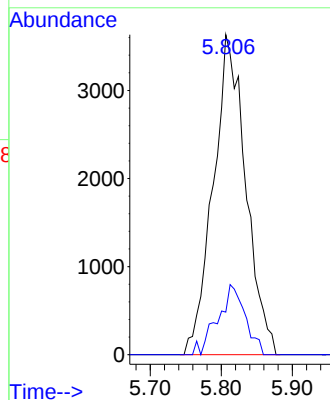
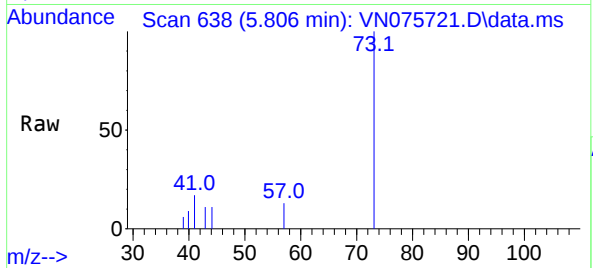




#19  
Methyl tert-butyl Ether  
Concen: 1.672 ug/l  
RT: 5.806 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

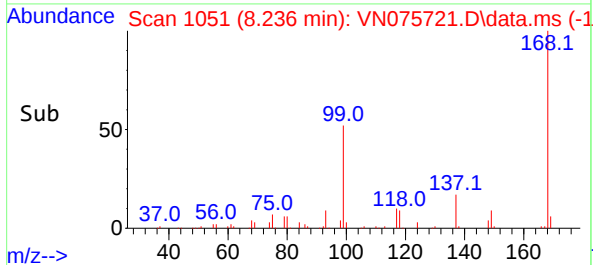
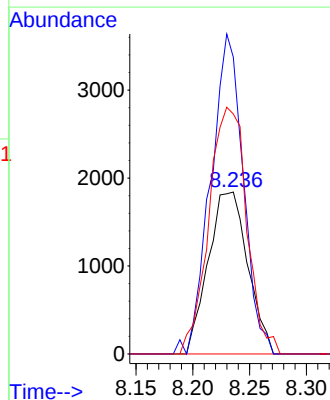
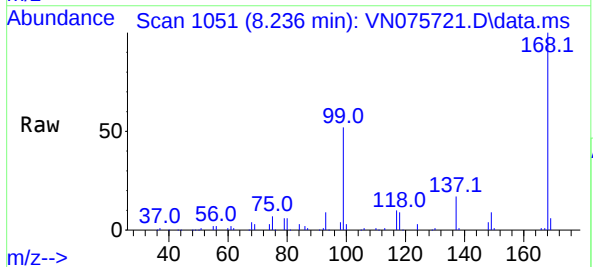
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

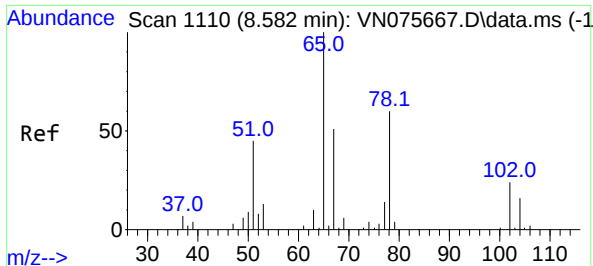
Tgt Ion: 73 Resp: 11556  
Ion Ratio Lower Upper  
73 100  
57 13.3 15.1 22.7#



#31  
Cyclohexane  
Concen: 1.184 ug/l  
RT: 8.236 min Scan# 1051  
Delta R.T. -0.023 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion: 56 Resp: 4460  
Ion Ratio Lower Upper  
56 100  
69 183.4 26.2 39.2#  
84 148.3 82.8 124.2#

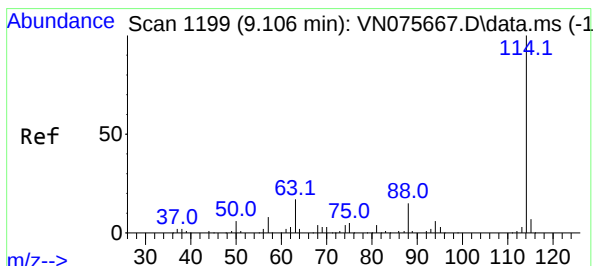
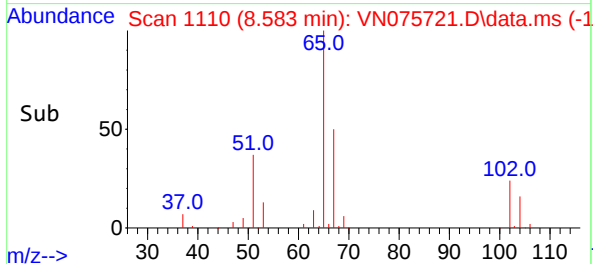
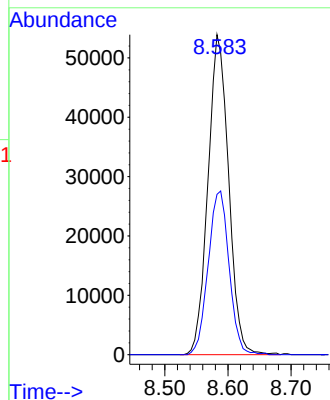
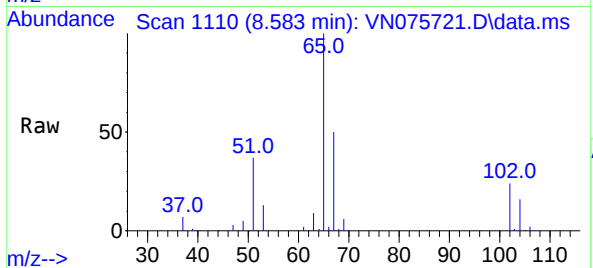




#33  
1,2-Dichloroethane-d4  
Concen: 48.215 ug/l  
RT: 8.583 min Scan# 1110  
Delta R.T. 0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

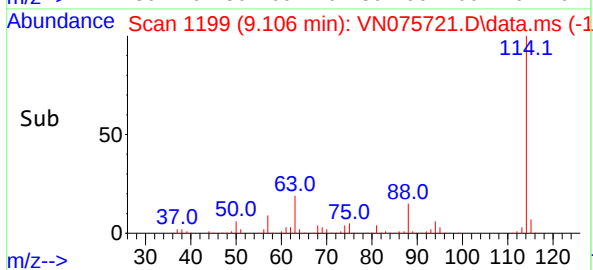
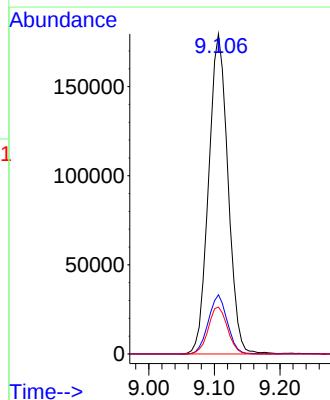
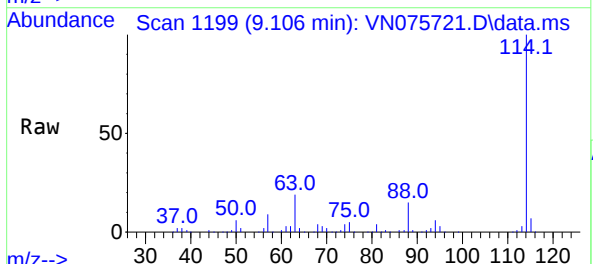
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

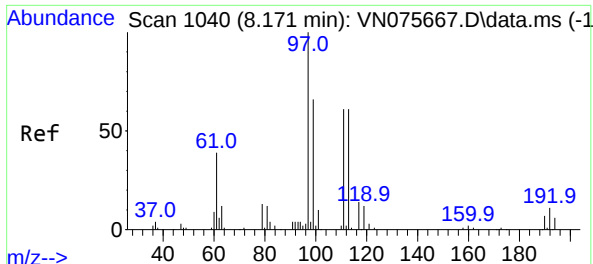
Tgt Ion: 65 Resp: 122672  
Ion Ratio Lower Upper  
65 100  
67 51.7 0.0 104.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 1199  
Delta R.T. 0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion: 114 Resp: 367689  
Ion Ratio Lower Upper  
114 100  
63 18.5 0.0 34.4  
88 14.6 0.0 29.2

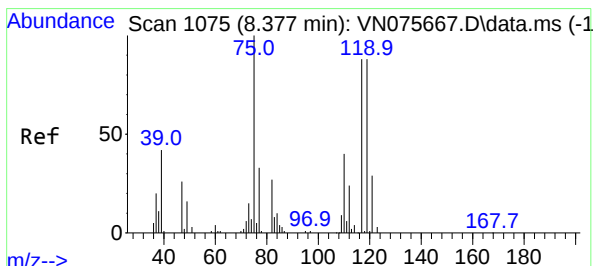
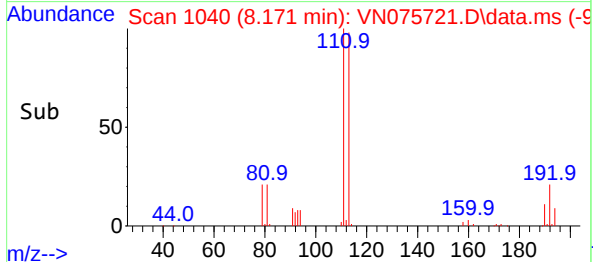
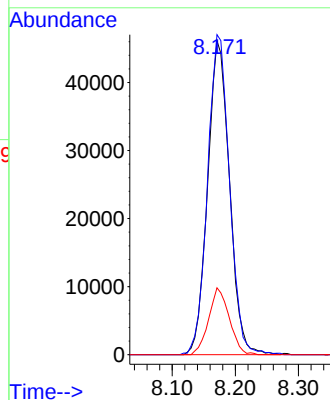
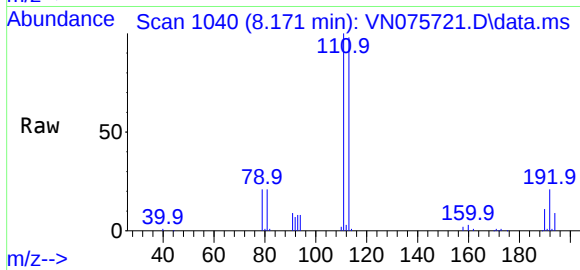




#35  
Dibromofluoromethane  
Concen: 49.481 ug/l  
RT: 8.171 min Scan# 110  
Delta R.T. 0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

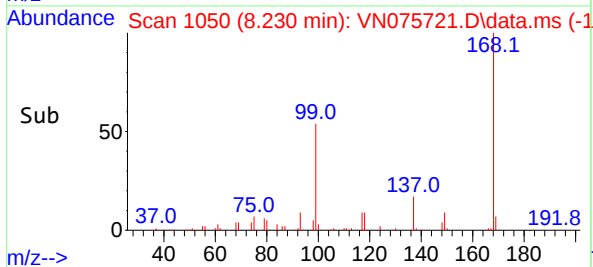
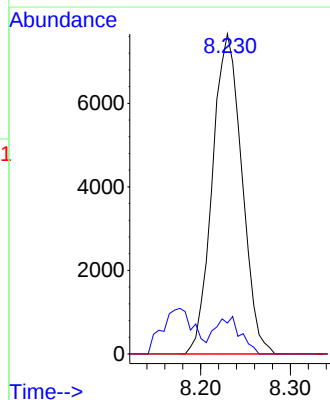
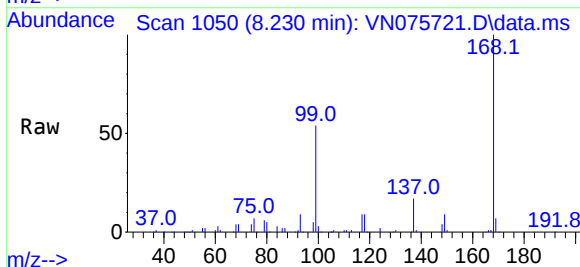
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

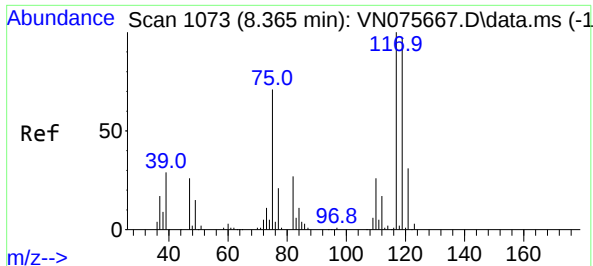
Tgt Ion:113 Resp: 111002  
Ion Ratio Lower Upper  
113 100  
111 102.2 81.0 121.6  
192 20.0 16.2 24.2



#36  
1,1-Dichloropropene  
Concen: 5.865 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.147 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

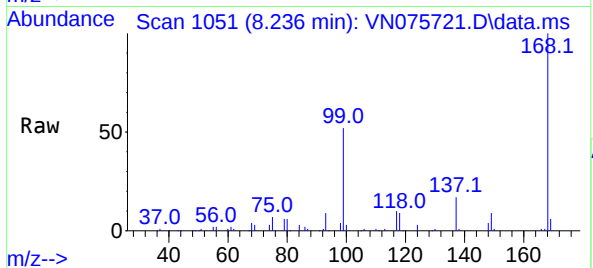
Tgt Ion: 75 Resp: 17472  
Ion Ratio Lower Upper  
75 100  
110 10.0 18.9 56.9#  
77 0.0 25.4 38.2#



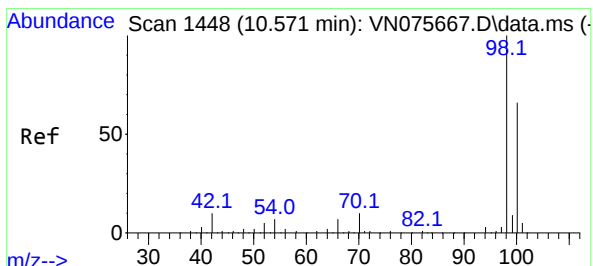
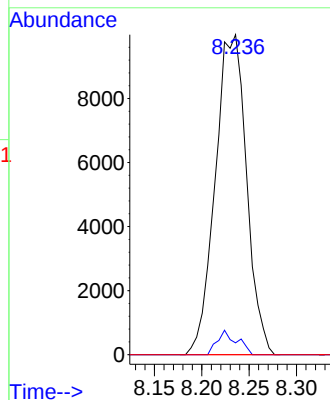
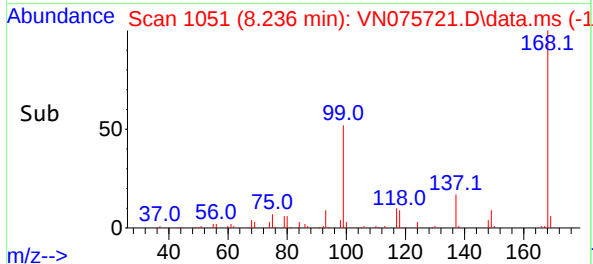


#38  
Carbon Tetrachloride  
Concen: 6.689 ug/l  
RT: 8.236 min Scan# 1073  
Delta R.T. -0.129 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

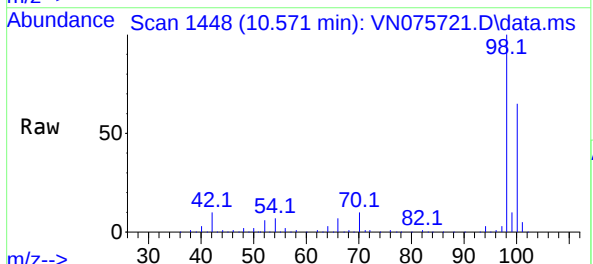
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05



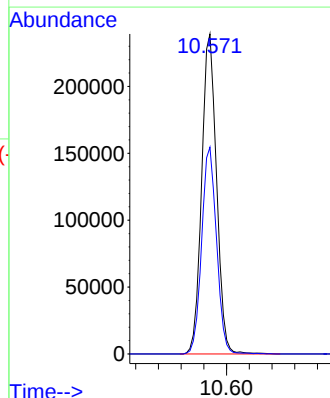
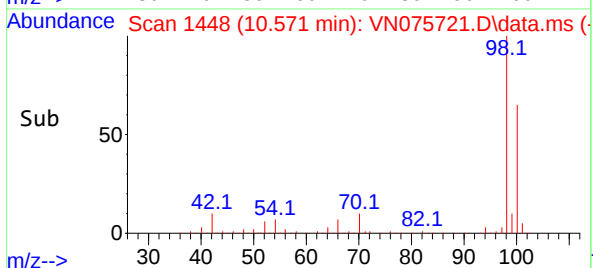
Tgt Ion:117 Resp: 22991  
Ion Ratio Lower Upper  
117 100  
119 3.7 77.2 115.8#  
121 0.0 24.6 37.0#

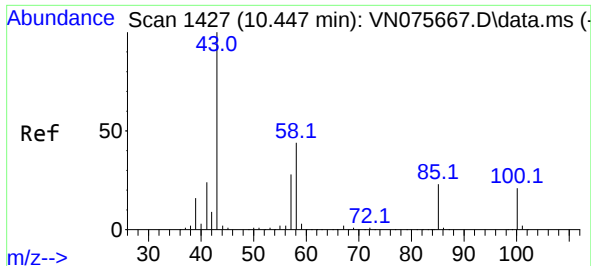


#50  
Toluene-d8  
Concen: 51.518 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. 0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29



Tgt Ion: 98 Resp: 434019  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.6 78.8

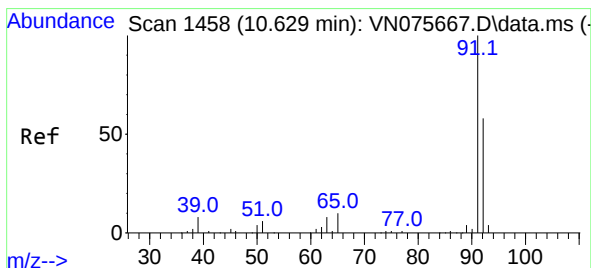
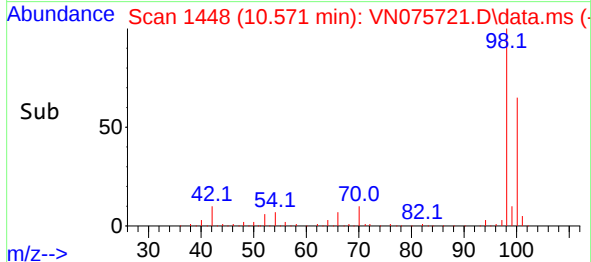
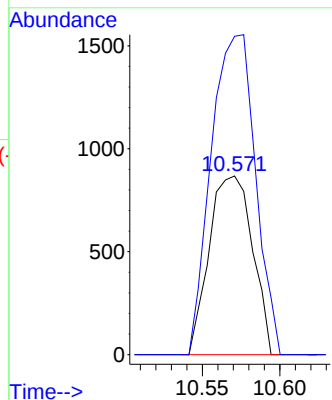
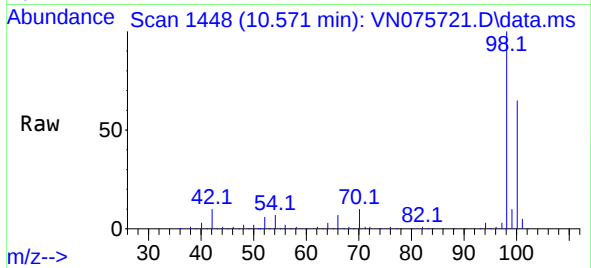




#51  
4-Methyl-2-Pentanone  
Concen: 0.682 ug/l  
RT: 10.571 min Scan# 1448  
Delta R.T. 0.124 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

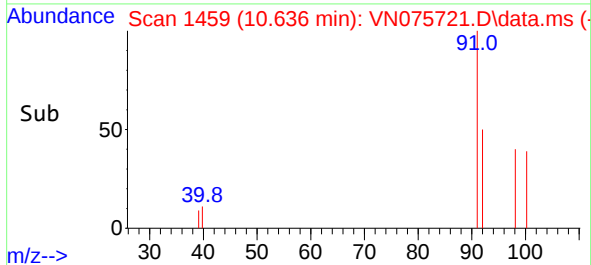
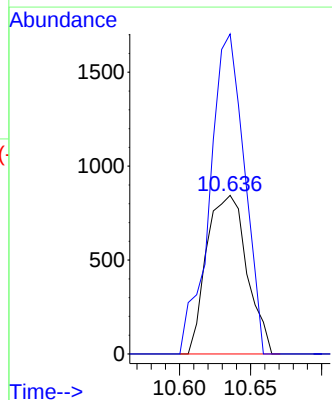
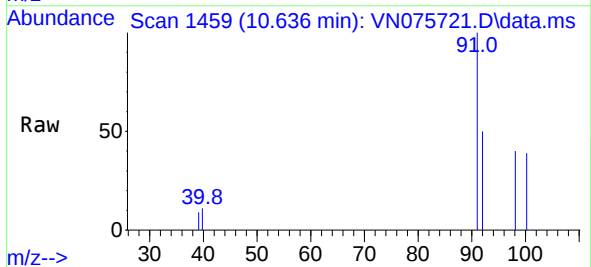
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

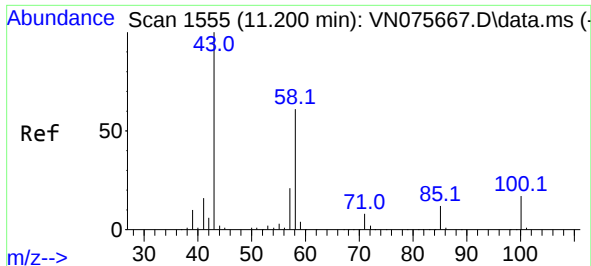
Tgt Ion: 43 Resp: 1680  
Ion Ratio Lower Upper  
43 100  
58 183.8 35.0 52.6#



#52  
Toluene  
Concen: 0.276 ug/l  
RT: 10.636 min Scan# 1459  
Delta R.T. 0.006 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion: 92 Resp: 1665  
Ion Ratio Lower Upper  
92 100  
91 173.3 137.9 206.9

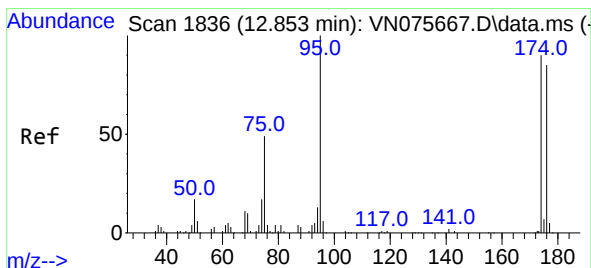
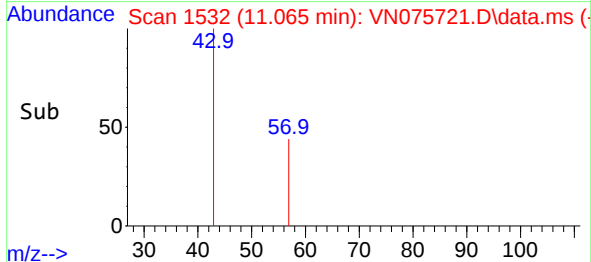
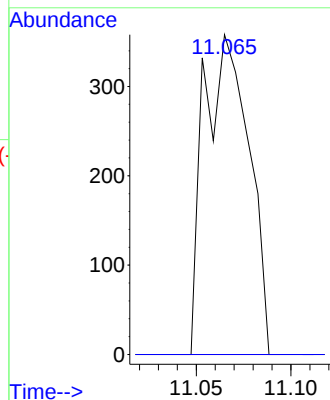
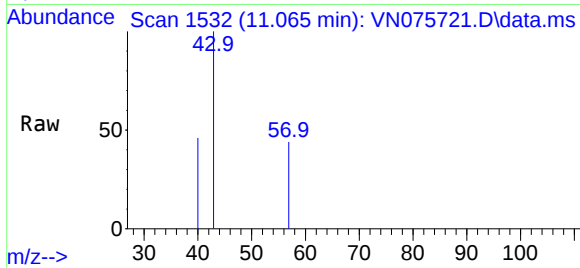




#59  
2-Hexanone  
Concen: 0.330 ug/l  
RT: 11.065 min Scan# 1532  
Delta R.T. -0.135 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

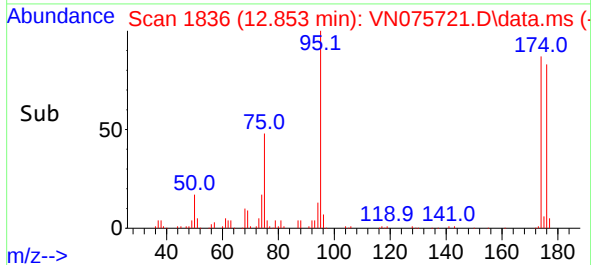
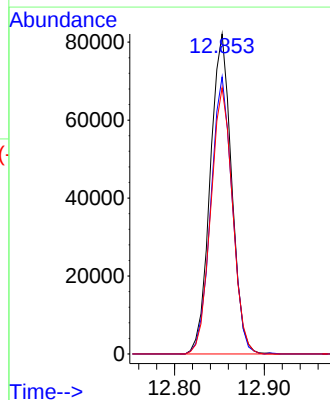
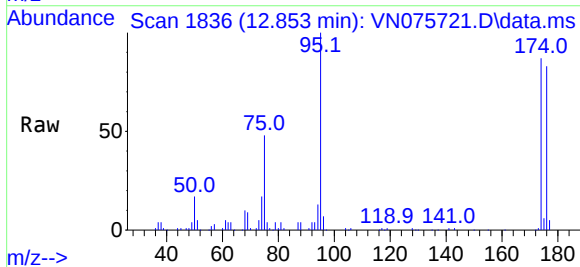
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

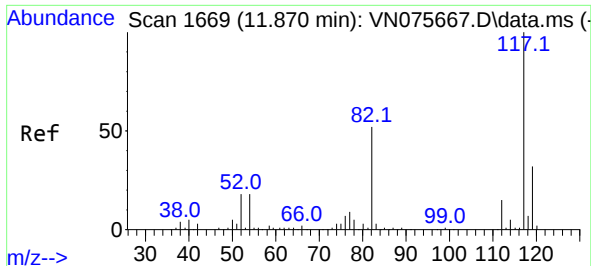
Tgt Ion: 43 Resp: 590  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.9 92.5#



#62  
4-Bromofluorobenzene  
Concen: 47.158 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. 0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion: 95 Resp: 135836  
Ion Ratio Lower Upper  
95 100  
174 86.2 0.0 178.6  
176 84.4 0.0 170.8

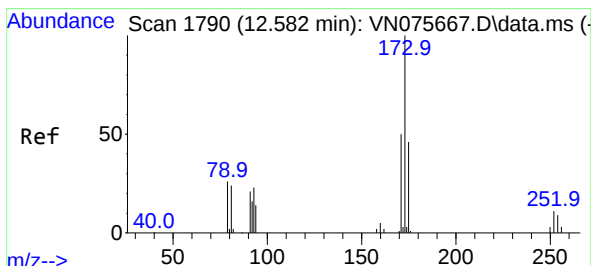
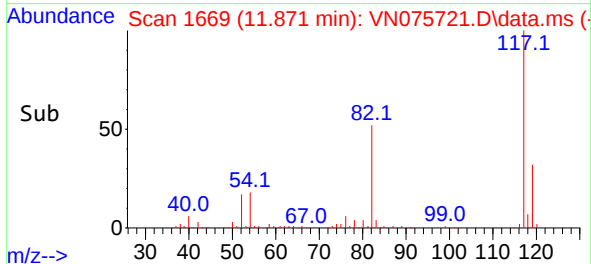
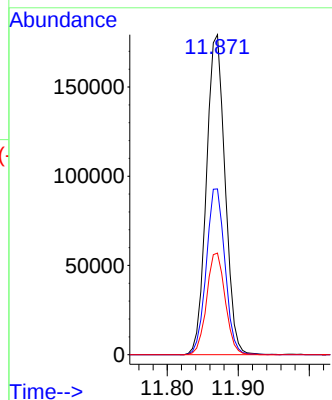
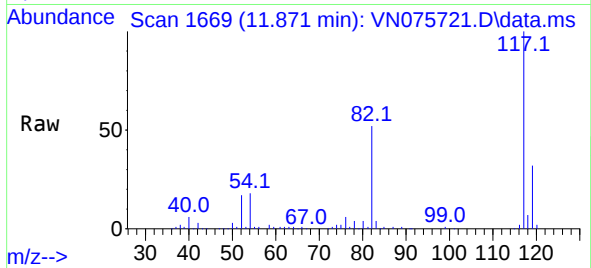




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

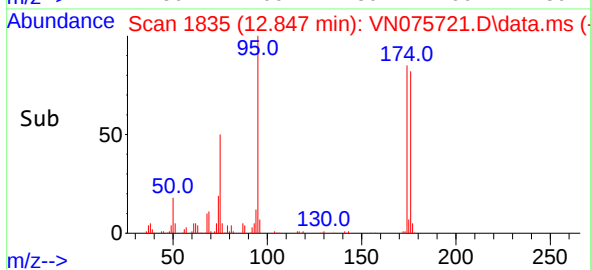
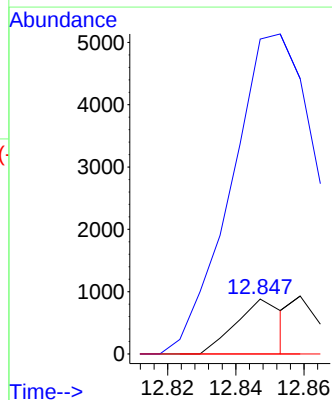
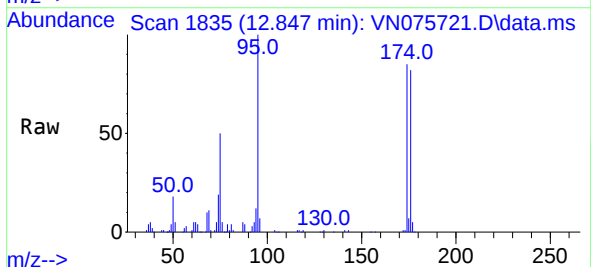
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

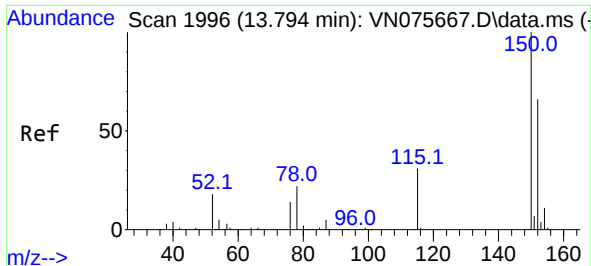
Tgt Ion:117 Resp: 327302  
Ion Ratio Lower Upper  
117 100  
82 51.8 41.8 62.8  
119 31.8 25.8 38.6



#71  
Bromoform  
Concen: 0.453 ug/l  
RT: 12.847 min Scan# 1835  
Delta R.T. 0.265 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion:173 Resp: 842  
Ion Ratio Lower Upper  
173 100  
175 884.8 23.8 71.2#  
254 0.0 0.0 0.0

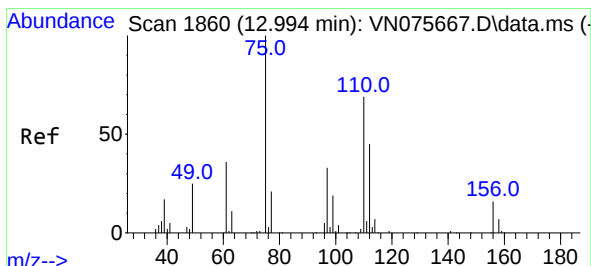
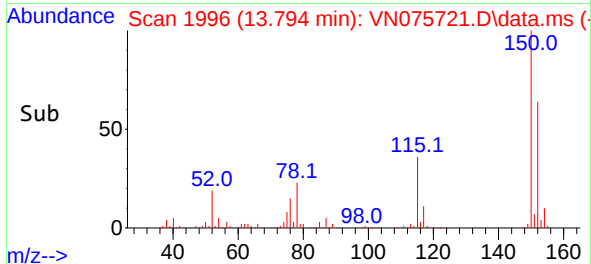
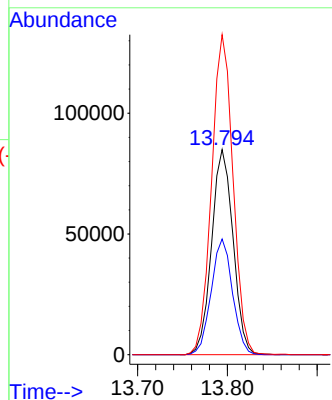
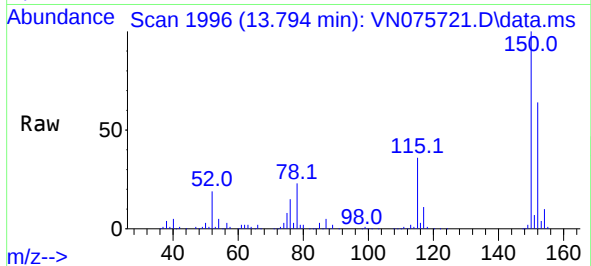




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

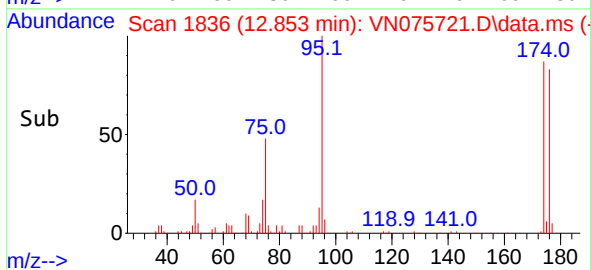
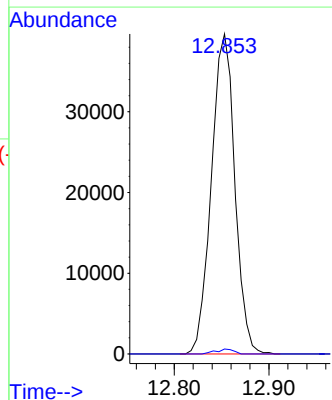
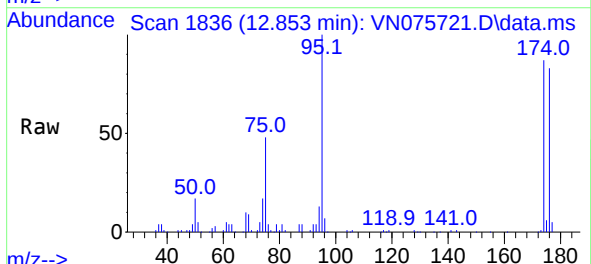
Instrument :  
MSVOA\_N  
ClientSampleId :  
TOLL-MW-05

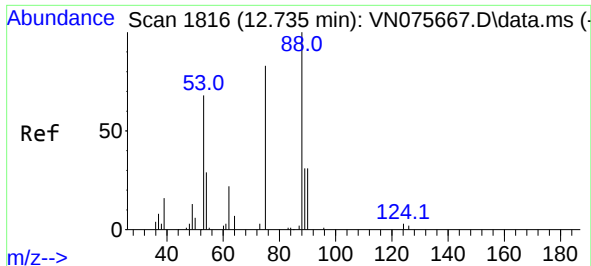
Tgt Ion:152 Resp: 141134  
Ion Ratio Lower Upper  
152 100  
115 56.1 28.4 85.2  
150 155.8 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 24.054 ug/l  
RT: 12.853 min Scan# 1836  
Delta R.T. -0.141 min  
Lab File: VN075721.D  
Acq: 12 Dec 2022 18:29

Tgt Ion: 75 Resp: 68176  
Ion Ratio Lower Upper  
75 100  
77 1.2 81.8 245.4#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 76.845 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN075721.D  
 Acq: 12 Dec 2022 18:29

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TOLL-MW-05

Tgt Ion: 75 Resp: 68176  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 72.4 108.6#  
 89 0.0 36.6 55.0#

