

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW022223\  
 Data File : VW030080.D  
 Acq On : 22 Feb 2023 15:36  
 Operator : SY/MD  
 Sample : 01378-02  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT1-2023-02

Quant Time: Feb 22 23:17:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM021723WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 22 23:16:18 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.538   | 114   | 382204   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.792   | 117   | 366849   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.194  | 152   | 219642   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.281   | 65    | 156117   | 57.452   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 114.900% |
| 7) Chloroethane-d5            | 1.535   | 69    | 129149   | 62.113   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 124.220% |
| 11) 1,1-Dichloroethene-d2     | 2.063   | 63    | 212944   | 40.964   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 81.920%  |
| 21) 2-Butanone-d5             | 3.793   | 46    | 157226   | 92.714   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 92.710%  |
| 24) Chloroform-d              | 4.256   | 84    | 254381   | 50.363   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.720% |
| 26) 1,2-Dichloroethane-d4     | 4.947   | 65    | 154232   | 51.659   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.320% |
| 32) Benzene-d6                | 4.966   | 84    | 521220   | 53.497   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 107.000% |
| 36) 1,2-Dichloropropane-d6    | 5.995   | 67    | 166105   | 53.616   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 107.240% |
| 41) Toluene-d8                | 7.249   | 98    | 482102   | 52.431   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.860% |
| 43) trans-1,3-Dichloroprop... | 7.558   | 79    | 77464    | 50.314   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 100.620% |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 131892   | 91.318   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 91.320%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159  | 84    | 224265   | 48.259   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 96.520%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.570  | 152   | 203857   | 52.113   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.220% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108   | 85    | 9270     | 2.291    | ug/L   | 96       |
| 3) Chloromethane              | 1.217   | 50    | 17018    | 3.278    | ug/L   | 96       |
| 5) Vinyl chloride             | 1.288   | 62    | 8735     | 2.416    | ug/L # | 74       |
| 6) Bromomethane               | 1.494   | 94    | 1752     | 2.666    | ug/L   | 86       |
| 8) Chloroethane               | 1.551   | 64    | 4993     | 2.367    | ug/L   | 84       |
| 9) Trichlorofluoromethane     | 1.719   | 101   | 11488    | 2.397    | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.072   | 101   | 8875     | 3.026    | ug/L   | 88       |
| 12) 1,1-Dichloroethene        | 2.072   | 96    | 7920     | 3.002    | ug/L # | 1        |
| 13) Acetone                   | 2.127   | 43    | 7992     | 6.140    | ug/L   | 94       |
| 14) Carbon disulfide          | 2.246   | 76    | 16437    | 2.107    | ug/L # | 94       |
| 15) Methyl Acetate            | 2.384   | 43    | 5673     | 2.096    | ug/L   | 92       |
| 16) Methylene chloride        | 2.455   | 84    | 8014     | 2.774    | ug/L   | 96       |
| 17) trans-1,2-Dichloroethene  | 2.699   | 96    | 5935     | 2.201    | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 18601    | 2.167    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.121   | 63    | 11440    | 2.301    | ug/L   | 95       |
| 20) cis-1,2-Dichloroethene    | 3.825   | 96    | 6979     | 2.340    | ug/L   | 98       |
| 23) Bromochloromethane        | 4.159   | 128   | 3630     | 2.283    | ug/L   | 97       |
| 25) Chloroform                | 4.281   | 83    | 13144    | 2.594    | ug/L   | 91       |
| 27) 1,2-Dichloroethane        | 5.056   | 62    | 8183     | 2.162    | ug/L   | 100      |

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 Operator : SY/MD  
 Sample : 01378-02  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

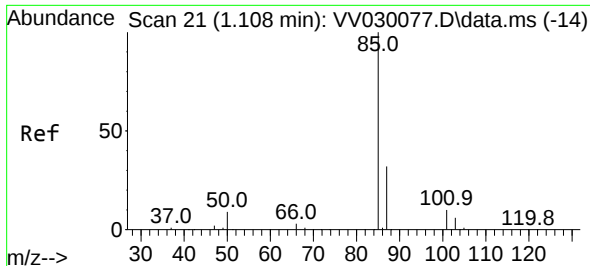
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT1-2023-02

Quant Time: Feb 22 23:17:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM021723WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 22 23:16:18 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 29) Cyclohexane               | 4.593  | 56   | 8592     | 2.010 | ug/L # | 88       |
| 30) 1,1,1-Trichloroethane     | 4.522  | 97   | 10729    | 2.354 | ug/L   | 99       |
| 33) Benzene                   | 5.021  | 78   | 24763    | 2.288 | ug/L   | 100      |
| 34) Trichloroethene           | 5.844  | 95   | 6776     | 2.300 | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.059  | 83   | 10087    | 2.157 | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.101  | 63   | 6715     | 2.356 | ug/L # | 95       |
| 38) Bromodichloromethane      | 6.442  | 83   | 8839     | 2.309 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 6.966  | 75   | 10026    | 2.092 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.169  | 43   | 13712    | 3.870 | ug/L   | 96       |
| 42) Toluene                   | 7.323  | 91   | 26708    | 2.255 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 7.593  | 75   | 12546    | 2.879 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 7.776  | 97   | 6838     | 2.311 | ug/L   | 96       |
| 46) Tetrachloroethene         | 7.915  | 164  | 5600     | 2.261 | ug/L   | 93       |
| 49) Dibromochloromethane      | 8.185  | 129  | 7203     | 2.348 | ug/L   | 93       |
| 50) 1,2-Dibromoethane         | 8.291  | 107  | 7236     | 2.230 | ug/L # | 94       |
| 51) Chlorobenzene             | 8.821  | 112  | 18454    | 2.338 | ug/L   | 100      |
| 52) Ethylbenzene              | 8.956  | 91   | 28242    | 2.154 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.082  | 106  | 10782    | 2.152 | ug/L   | 92       |
| 54) o-Xylene                  | 9.487  | 106  | 10197    | 2.112 | ug/L   | 84       |
| 55) Styrene                   | 9.506  | 104  | 16223    | 1.967 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 11560    | 2.390 | ug/L # | 95       |
| 59) Bromoform                 | 9.673  | 173  | 5385     | 2.476 | ug/L   | 98       |
| 60) Isopropylbenzene          | 9.876  | 105  | 26816    | 2.053 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.217 | 75   | 7893     | 2.172 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 20836    | 1.926 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.860 | 105  | 19650    | 1.848 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.127 | 146  | 15000    | 2.279 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 11.220 | 146  | 16073    | 2.386 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.586 | 146  | 16212    | 2.474 | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.377 | 75   | 2368     | 2.233 | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.593 | 180  | 11695    | 2.227 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.207 | 180  | 9802     | 1.985 | ug/L   | 93       |
| 71) Naphthalene               | 13.451 | 128  | 24320    | 1.698 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.689 | 180  | 9671     | 1.996 | ug/L   | 94       |

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

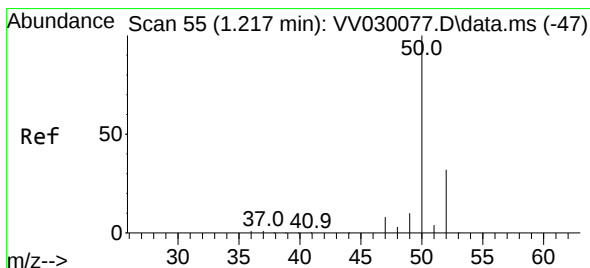
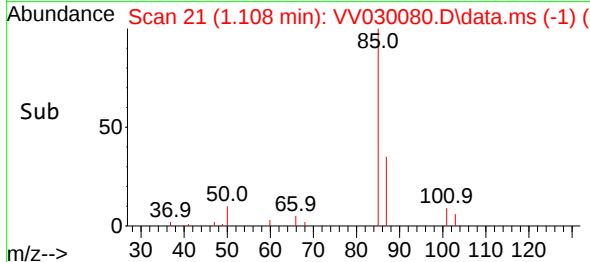
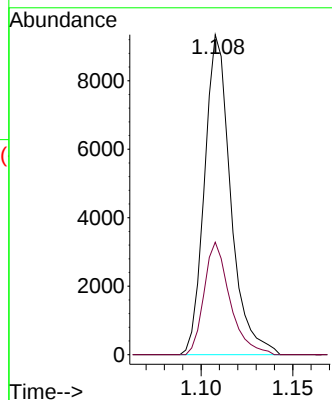
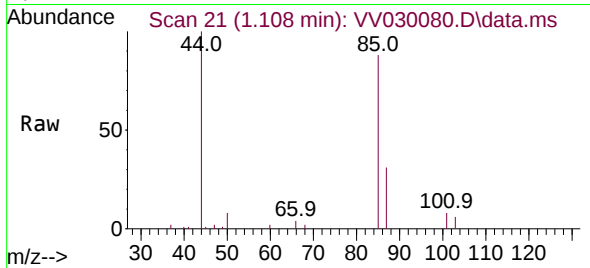




#2  
 Dichlorodifluoromethane  
 Concen: 2.291 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VV030080.D  
 Acq: 22 Feb 2023 15:36

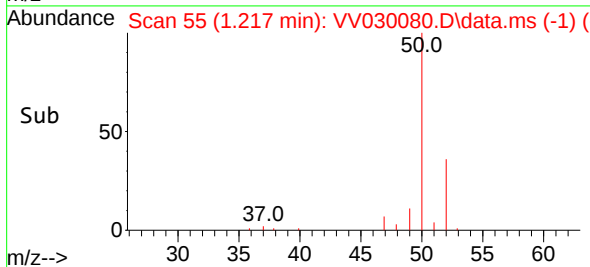
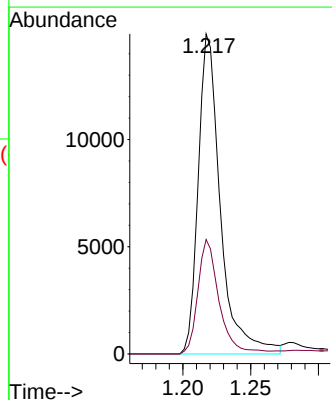
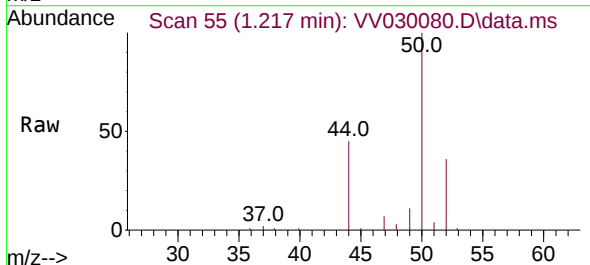
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT1-2023-02

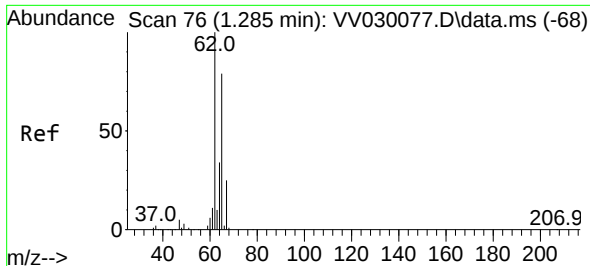
Tgt Ion: 85 Resp: 9270  
 Ion Ratio Lower Upper  
 85 100  
 87 34.7 26.0 39.0



#3  
 Chloromethane  
 Concen: 3.278 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. -0.000 min  
 Lab File: VV030080.D  
 Acq: 22 Feb 2023 15:36

Tgt Ion: 50 Resp: 17018  
 Ion Ratio Lower Upper  
 50 100  
 52 35.8 23.4 43.4

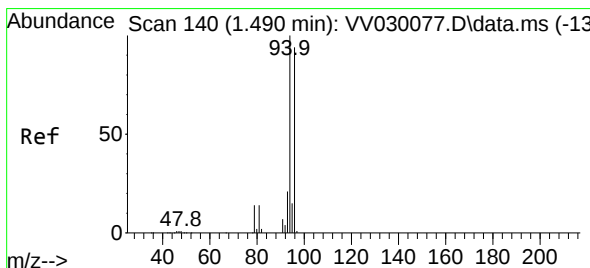
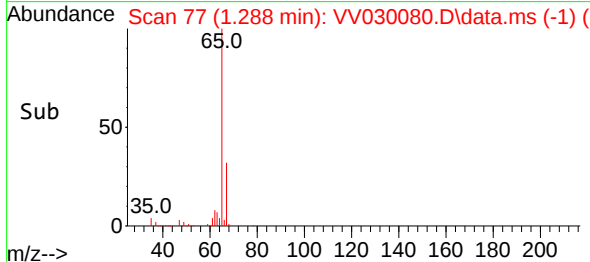
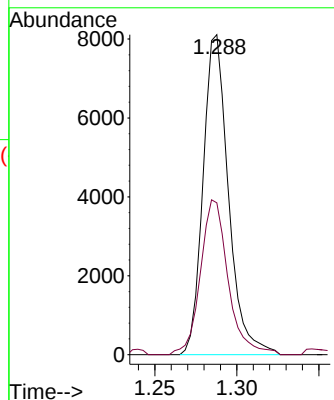
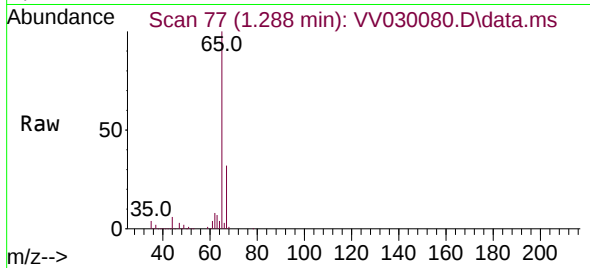




#5  
 Vinyl chloride  
 Concen: 2.416 ug/L  
 RT: 1.288 min Scan# 71  
 Delta R.T. 0.003 min  
 Lab File: VV030080.D  
 Acq: 22 Feb 2023 15:36

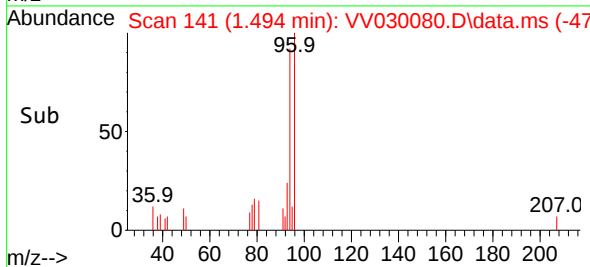
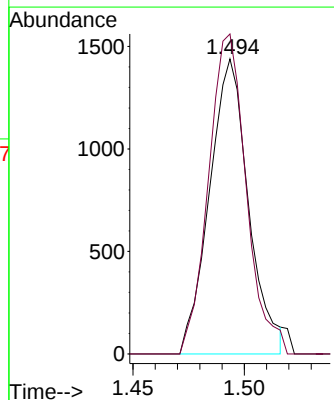
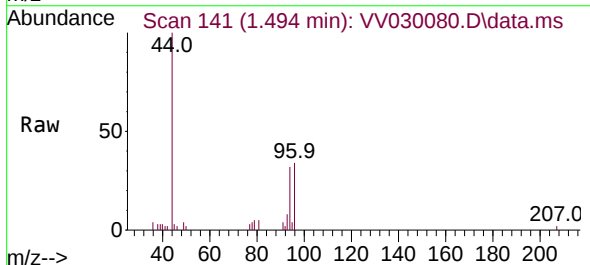
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT1-2023-02

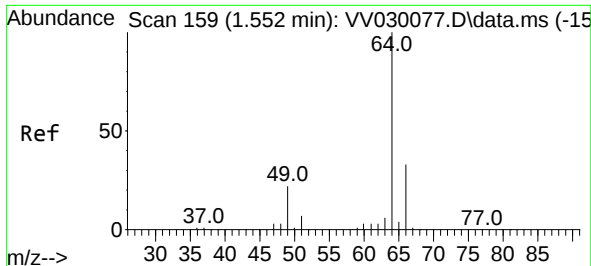
Tgt Ion: 62 Resp: 8735  
 Ion Ratio Lower Upper  
 62 100  
 64 47.5 22.9 42.5#



#6  
 Bromomethane  
 Concen: 2.666 ug/L  
 RT: 1.494 min Scan# 141  
 Delta R.T. 0.003 min  
 Lab File: VV030080.D  
 Acq: 22 Feb 2023 15:36

Tgt Ion: 94 Resp: 1752  
 Ion Ratio Lower Upper  
 94 100  
 96 108.5 66.7 123.9

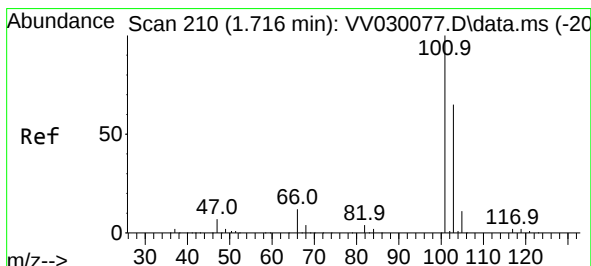
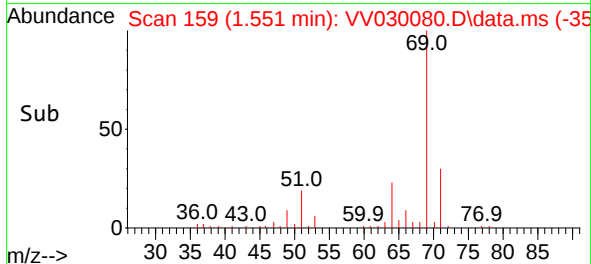
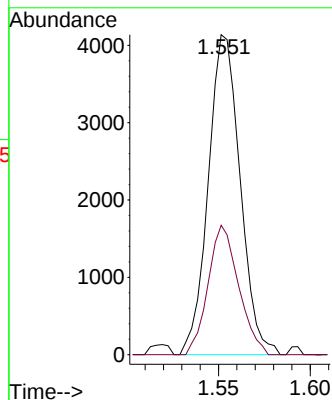
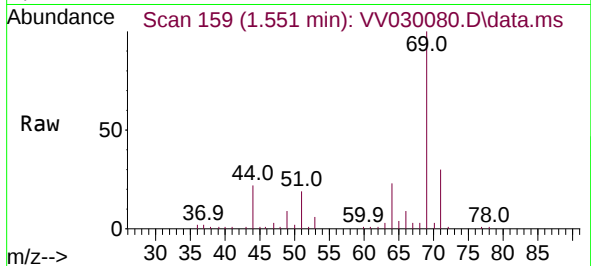




#8  
Chloroethane  
Concen: 2.367 ug/L  
RT: 1.551 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

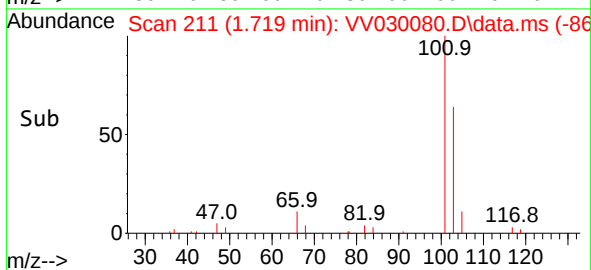
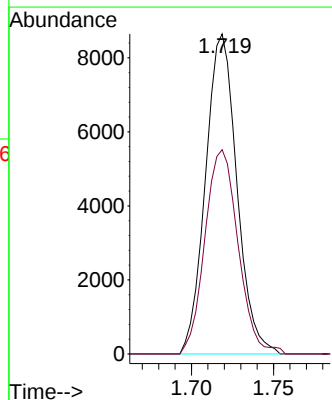
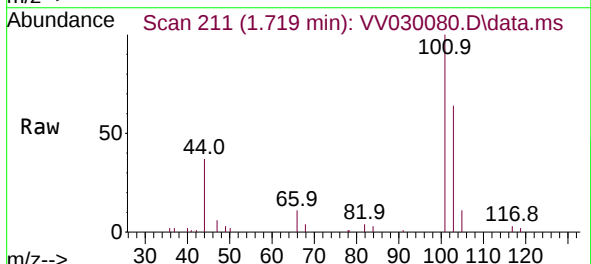
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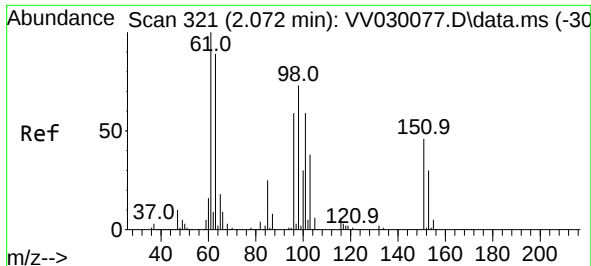
Tgt Ion: 64 Resp: 4993  
Ion Ratio Lower Upper  
64 100  
66 40.4 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 2.397 ug/L  
RT: 1.719 min Scan# 211  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

Tgt Ion: 101 Resp: 11488  
Ion Ratio Lower Upper  
101 100  
103 66.9 52.6 78.8

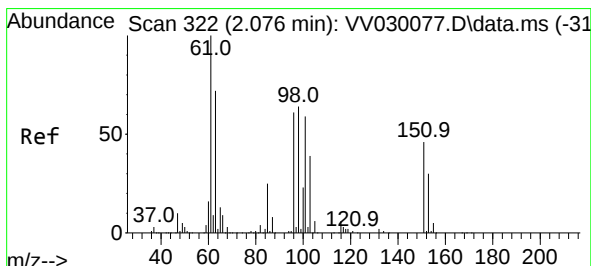
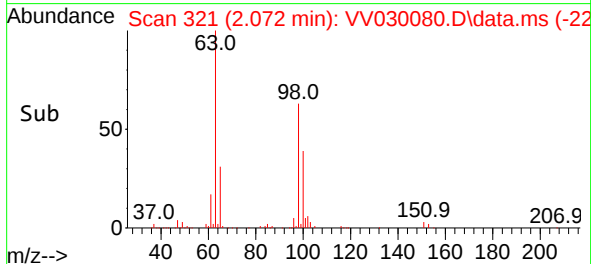
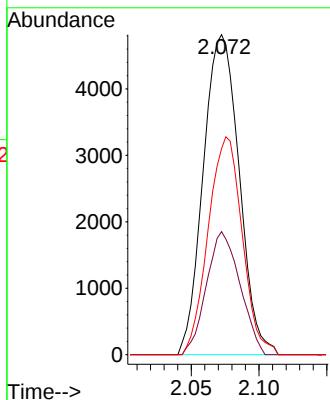
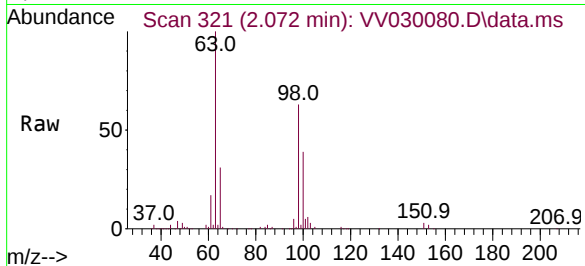




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 3.026 ug/L  
 RT: 2.072 min Scan# 321  
 Delta R.T. -0.000 min  
 Lab File: VV030080.D  
 Acq: 22 Feb 2023 15:36

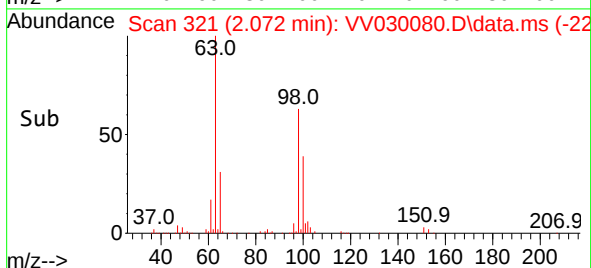
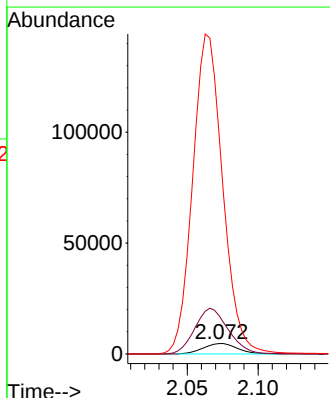
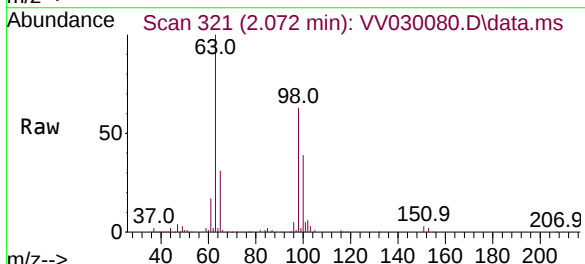
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-QT1-2023-02

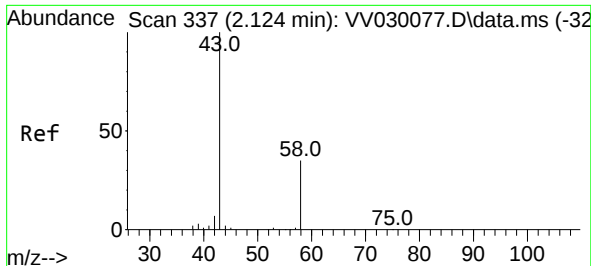
Tgt Ion:101 Resp: 8875  
 Ion Ratio Lower Upper  
 101 100  
 85 35.9 33.4 50.2  
 151 64.5 60.8 91.2



#12  
 1,1-Dichloroethene  
 Concen: 3.002 ug/L  
 RT: 2.072 min Scan# 321  
 Delta R.T. -0.003 min  
 Lab File: VV030080.D  
 Acq: 22 Feb 2023 15:36

Tgt Ion: 96 Resp: 7920  
 Ion Ratio Lower Upper  
 96 100  
 61 365.9 115.8 215.2#  
 63 2108.1 83.4 154.8#





#13

Acetone

Concen: 6.140 ug/L

RT: 2.127 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

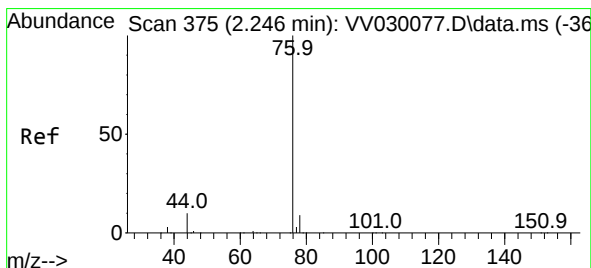
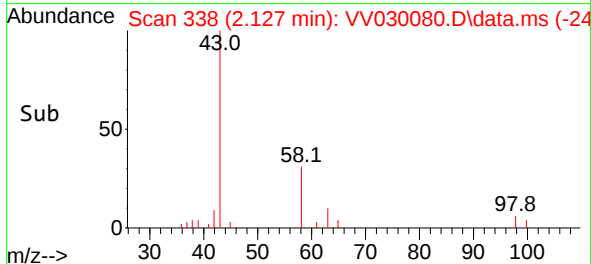
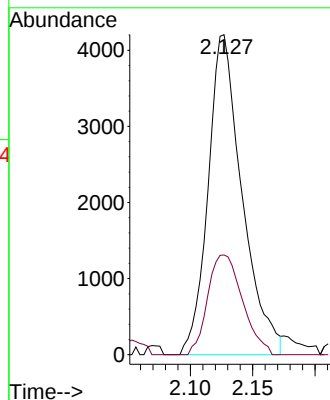
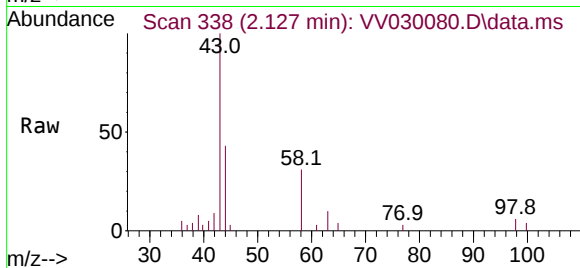
MDL-WATER-QT1-2023-02

Tgt Ion: 43 Resp: 7992

Ion Ratio Lower Upper

43 100

58 31.9 0.0 70.6



#14

Carbon disulfide

Concen: 2.107 ug/L

RT: 2.246 min Scan# 375

Delta R.T. -0.000 min

Lab File: VV030080.D

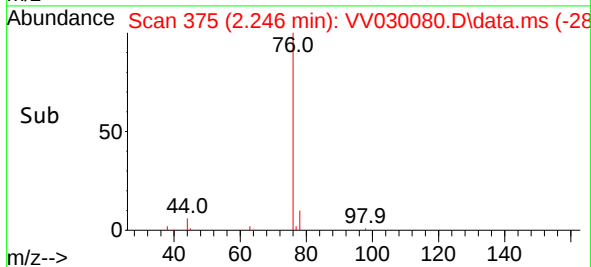
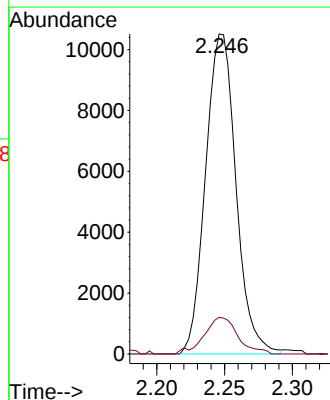
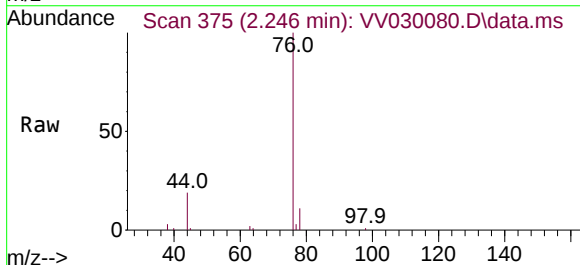
Acq: 22 Feb 2023 15:36

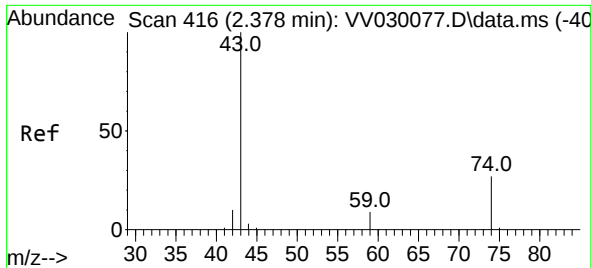
Tgt Ion: 76 Resp: 16437

Ion Ratio Lower Upper

76 100

78 11.4 7.4 11.2#

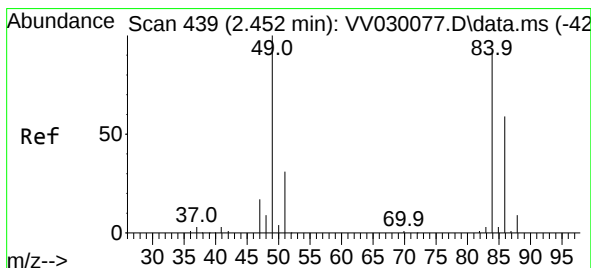
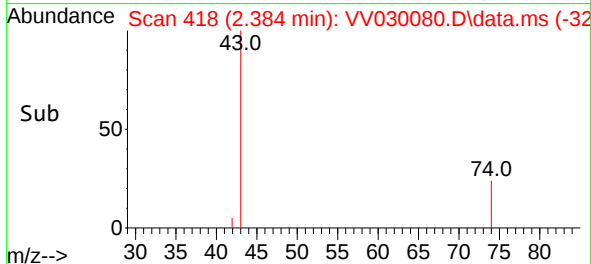
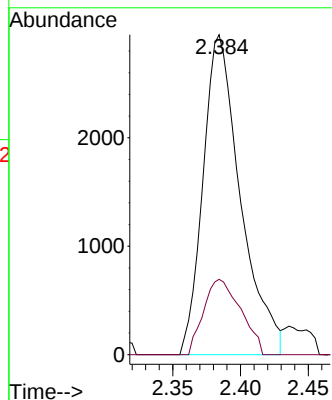
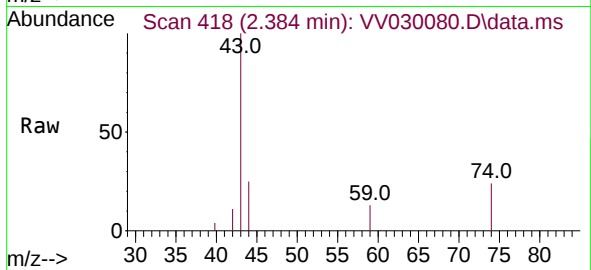




#15  
Methyl Acetate  
Concen: 2.096 ug/L  
RT: 2.384 min Scan# 416  
Delta R.T. 0.006 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

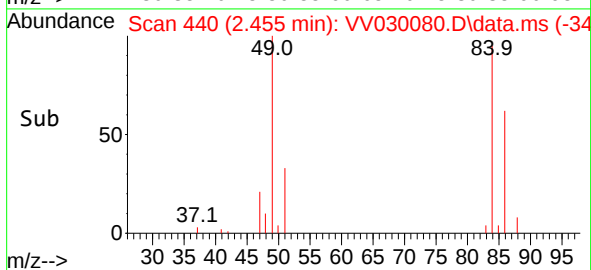
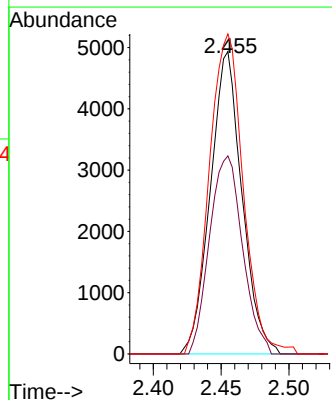
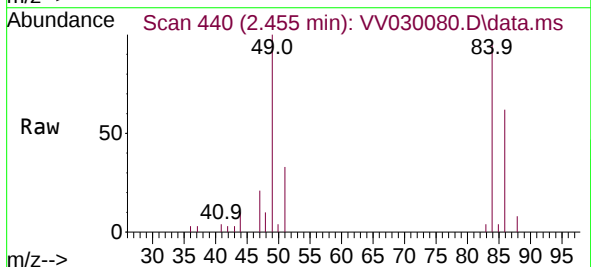
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

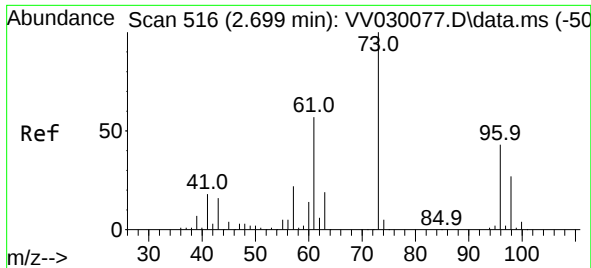
Tgt Ion: 43 Resp: 5673  
Ion Ratio Lower Upper  
43 100  
74 23.3 21.9 32.9



#16  
Methylene chloride  
Concen: 2.774 ug/L  
RT: 2.455 min Scan# 440  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

Tgt Ion: 84 Resp: 8014  
Ion Ratio Lower Upper  
84 100  
86 65.5 45.1 83.7  
49 105.8 78.7 146.1

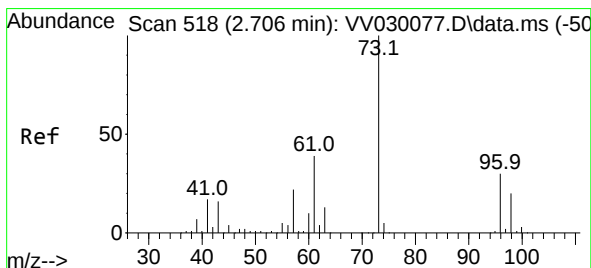
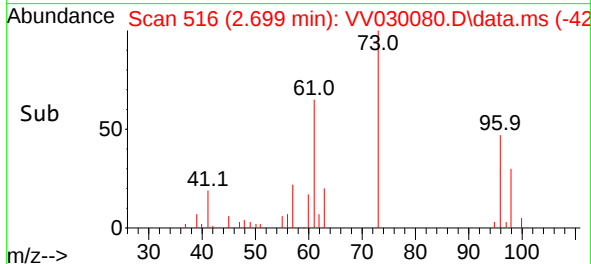
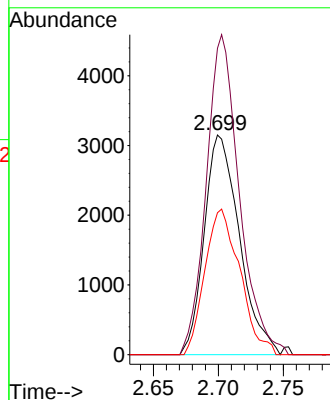
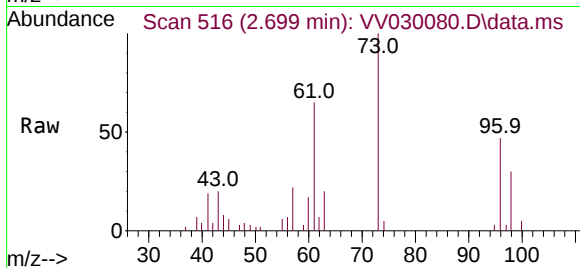




#17  
trans-1,2-Dichloroethene  
Concen: 2.201 ug/L  
RT: 2.699 min Scan# 516  
Delta R.T. -0.000 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

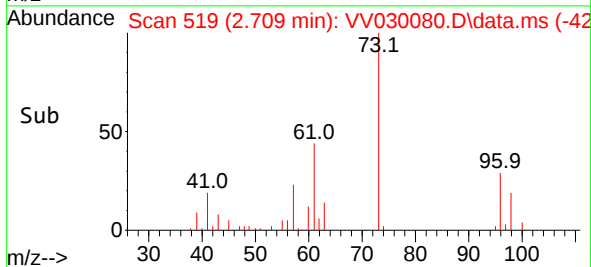
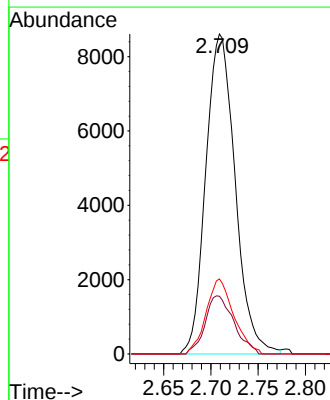
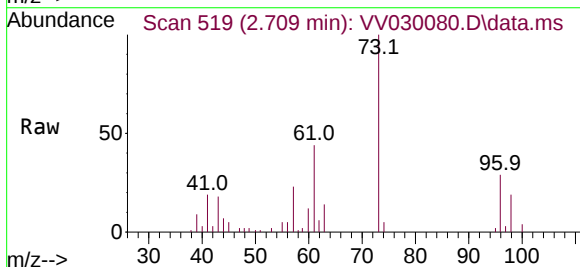
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

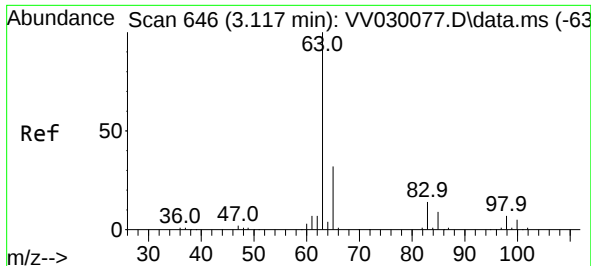
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 5935  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 139.4 | 93.3  | 173.3 |
| 98       | 64.6  | 44.1  | 81.9  |



#18  
Methyl tert-butyl Ether  
Concen: 2.167 ug/L  
RT: 2.709 min Scan# 519  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 73    | Resp: | 18601 |
| Ion      | Ratio | Lower | Upper |
| 73       | 100   |       |       |
| 43       | 17.7  | 12.7  | 19.1  |
| 57       | 22.0  | 17.0  | 25.4  |





#19

1,1-Dichloroethane

Concen: 2.301 ug/L

RT: 3.121 min Scan# 646

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT1-2023-02

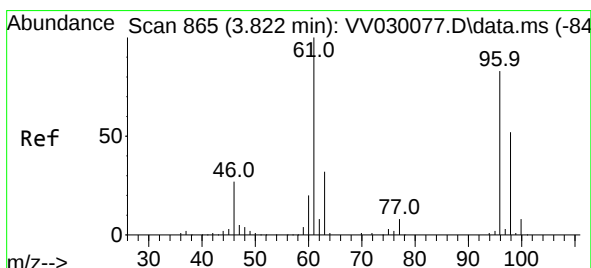
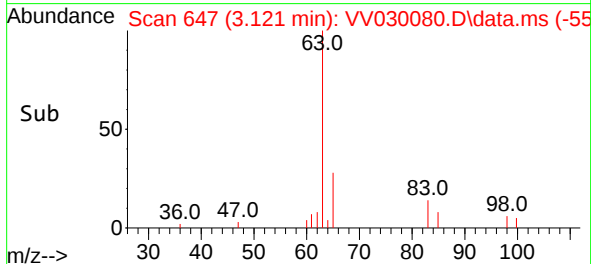
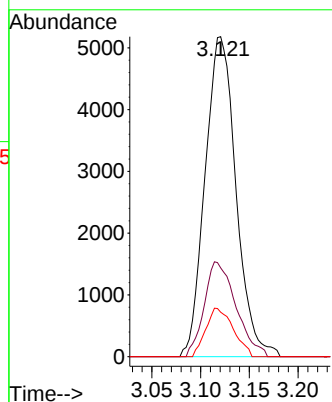
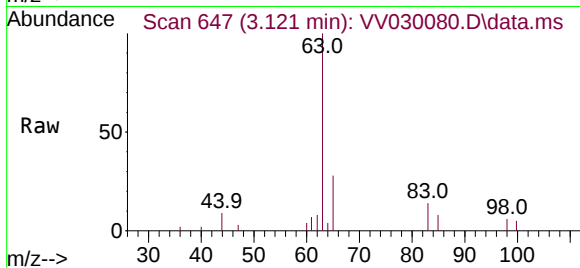
Tgt Ion: 63 Resp: 11440

Ion Ratio Lower Upper

63 100

65 27.7 22.0 41.0

83 13.9 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 2.340 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

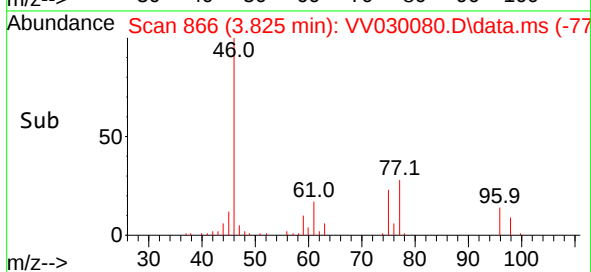
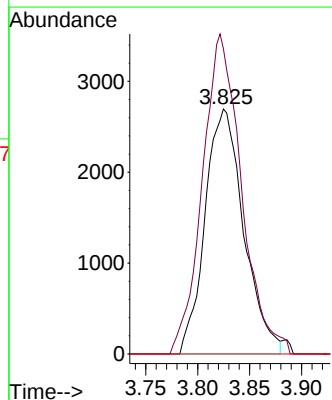
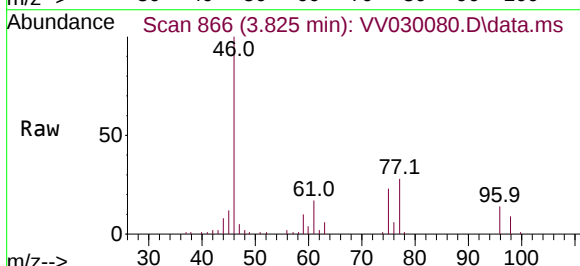
Tgt Ion: 96 Resp: 6979

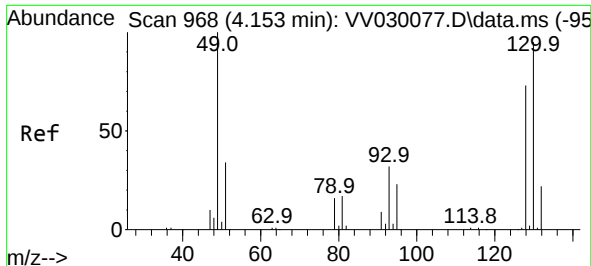
Ion Ratio Lower Upper

96 100

61 124.6 86.0 159.6

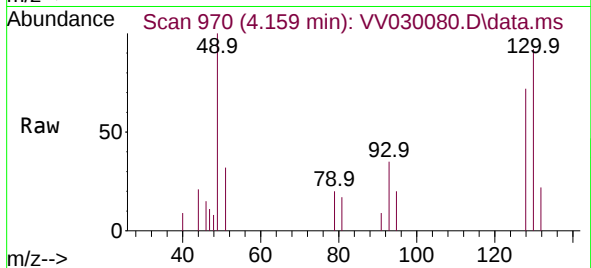
68 0.0 0.0 0.0



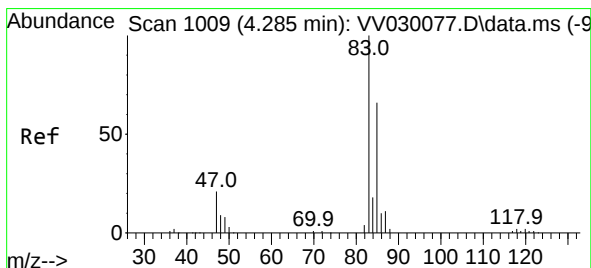
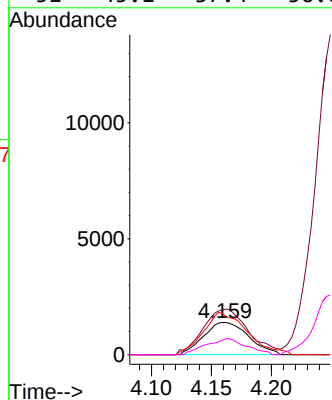
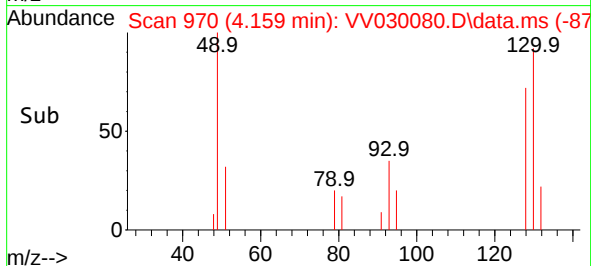


#23  
Bromochloromethane  
Concen: 2.283 ug/L  
RT: 4.159 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

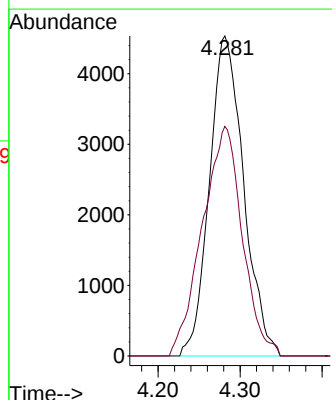
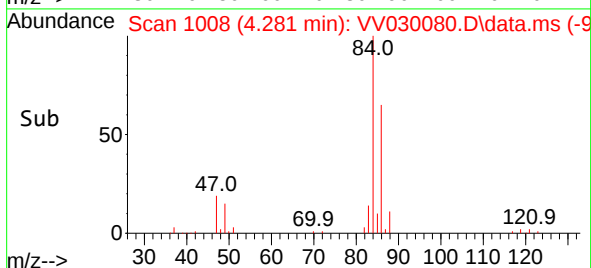
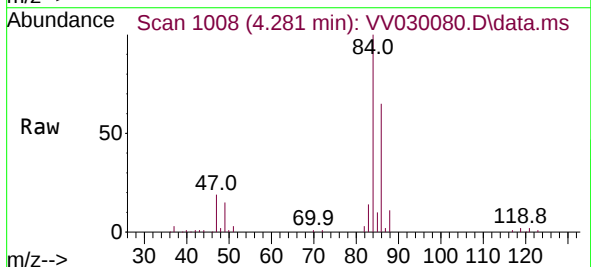


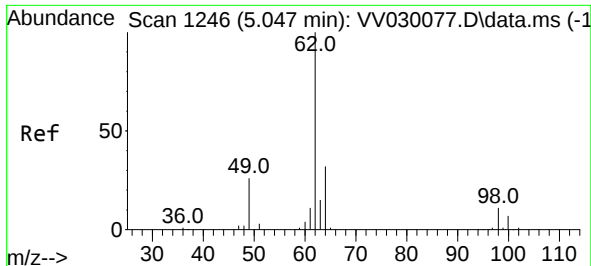
Tgt Ion:128 Resp: 3630  
Ion Ratio Lower Upper  
128 100  
49 138.7 101.0 187.6  
130 128.3 88.2 163.8  
51 45.1 37.4 56.0



#25  
Chloroform  
Concen: 2.594 ug/L  
RT: 4.281 min Scan# 1008  
Delta R.T. -0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

Tgt Ion: 83 Resp: 13144  
Ion Ratio Lower Upper  
83 100  
85 71.8 45.4 84.4





#27

1,2-Dichloroethane

Concen: 2.162 ug/L

RT: 5.056 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

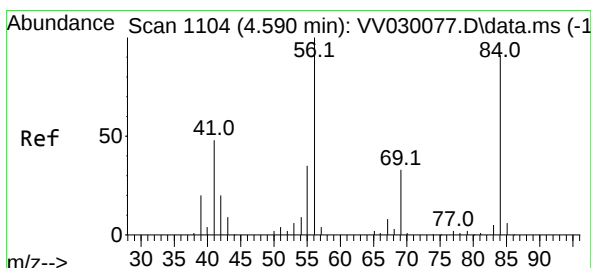
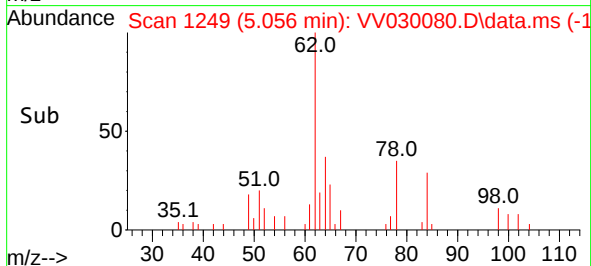
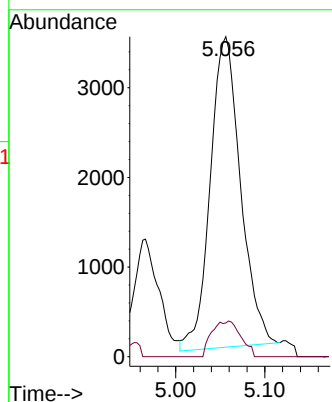
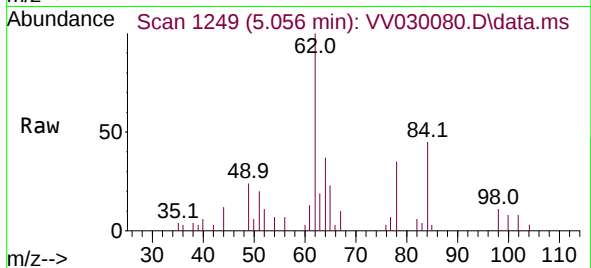
MDL-WATER-QT1-2023-02

Tgt Ion: 62 Resp: 8183

Ion Ratio Lower Upper

62 100

98 10.6 8.5 12.7



#29

Cyclohexane

Concen: 2.010 ug/L

RT: 4.593 min Scan# 1105

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

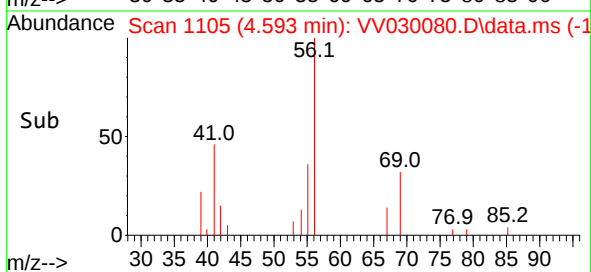
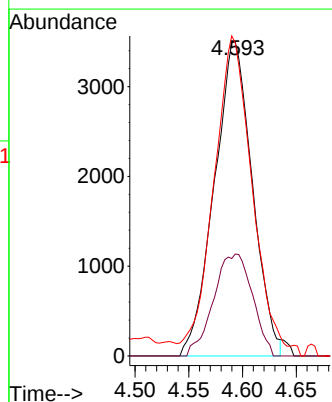
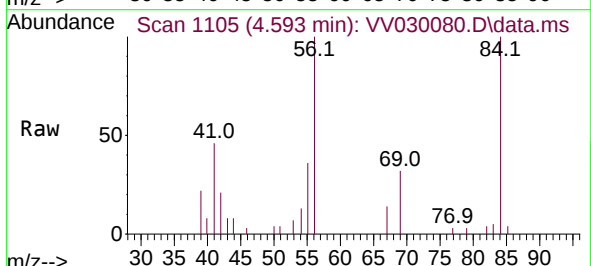
Tgt Ion: 56 Resp: 8592

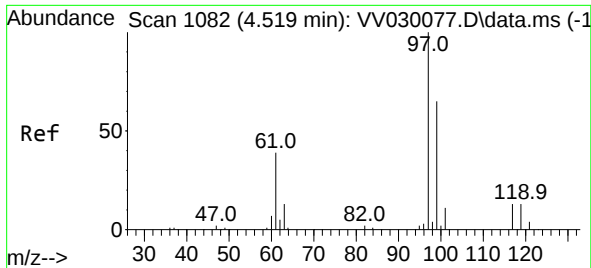
Ion Ratio Lower Upper

56 100

69 16.9 25.3 37.9

84 97.8 73.0 109.4





#30

1,1,1-Trichloroethane

Concen: 2.354 ug/L

RT: 4.522 min Scan# 1082

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT1-2023-02

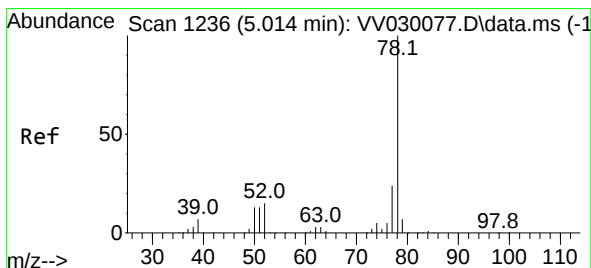
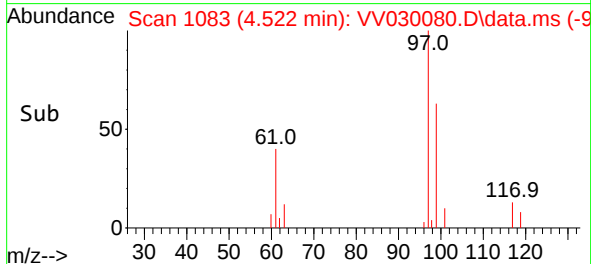
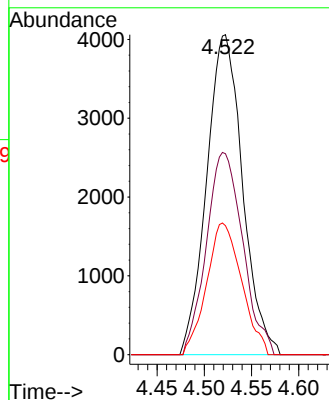
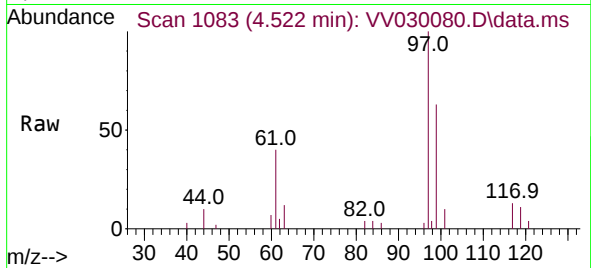
Tgt Ion: 97 Resp: 10729

Ion Ratio Lower Upper

97 100

99 63.9 50.7 76.1

61 40.1 31.6 47.4



#33

Benzene

Concen: 2.288 ug/L

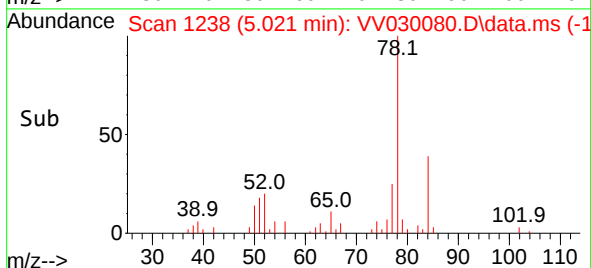
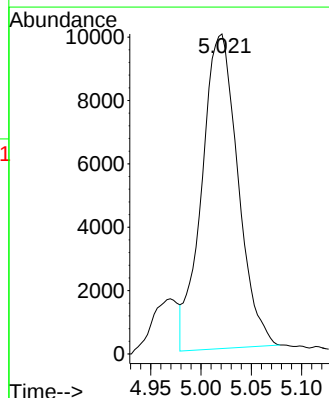
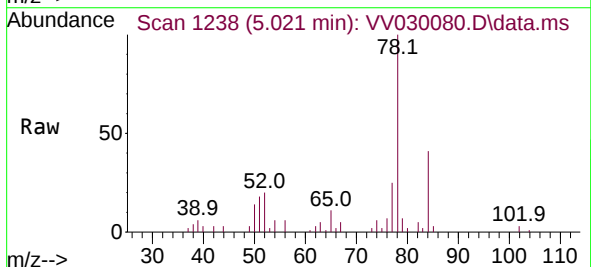
RT: 5.021 min Scan# 1238

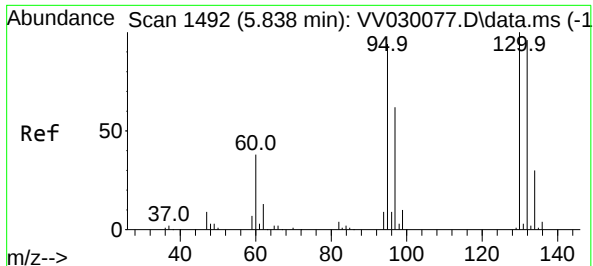
Delta R.T. 0.006 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Tgt Ion: 78 Resp: 24763



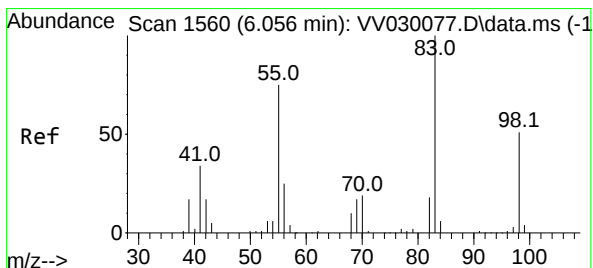
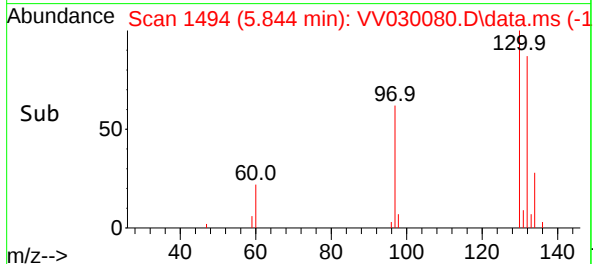
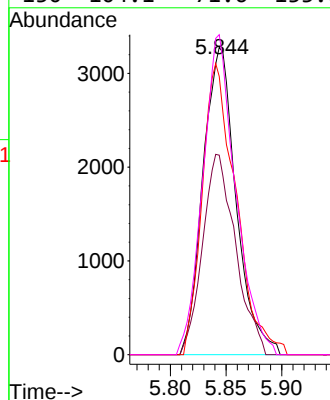
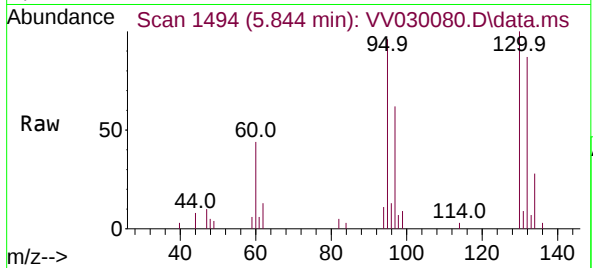


#34  
Trichloroethene  
Concen: 2.300 ug/L  
RT: 5.844 min Scan# 1492  
Delta R.T. 0.006 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

Tgt Ion: 95 Resp: 6776

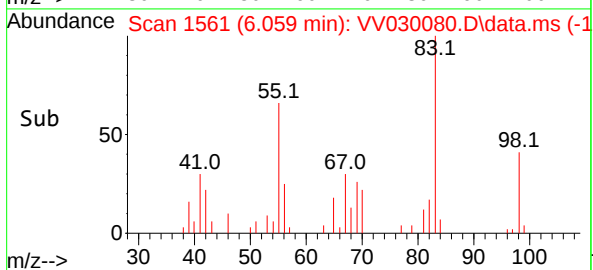
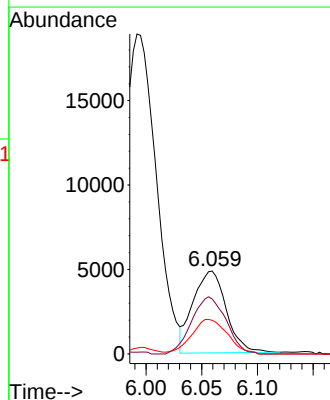
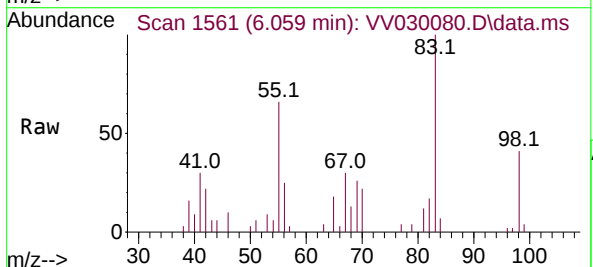
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.9  | 44.1  | 81.9  |
| 132 | 90.5  | 68.3  | 126.9 |
| 130 | 104.1 | 71.6  | 133.0 |

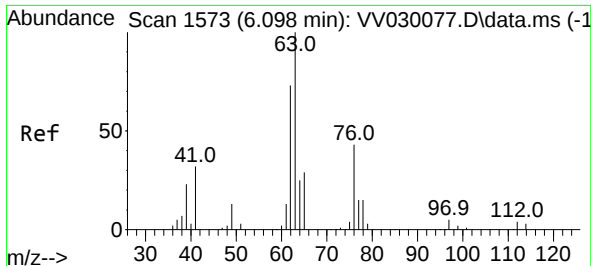


#35  
Methylcyclohexane  
Concen: 2.157 ug/L  
RT: 6.059 min Scan# 1561  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

Tgt Ion: 83 Resp: 10087

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 72.0  | 58.4  | 87.6  |
| 98  | 45.7  | 39.8  | 59.8  |





#37

1,2-Dichloropropane

Concen: 2.356 ug/L

RT: 6.101 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

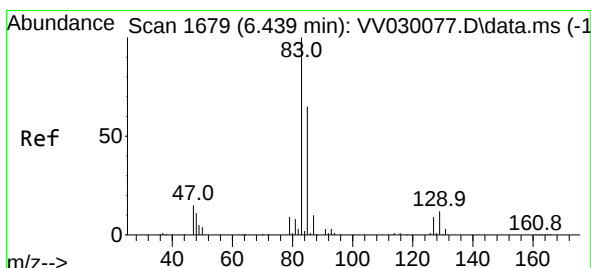
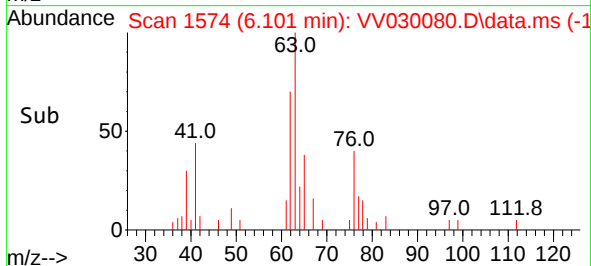
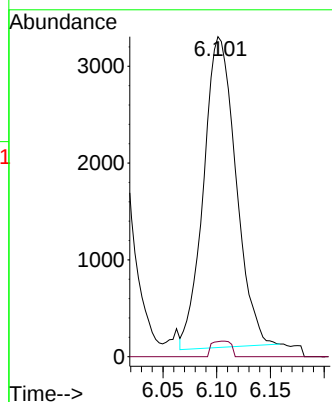
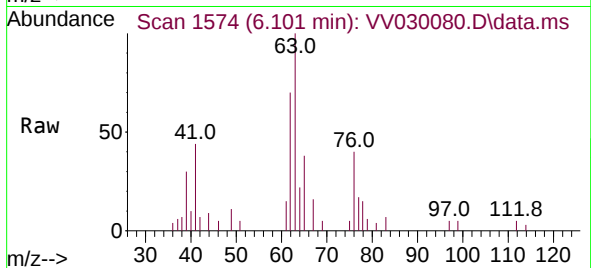
MDL-WATER-QT1-2023-02

Tgt Ion: 63 Resp: 6715

Ion Ratio Lower Upper

63 100

112 3.0 3.7 5.5#



#38

Bromodichloromethane

Concen: 2.309 ug/L

RT: 6.442 min Scan# 1680

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

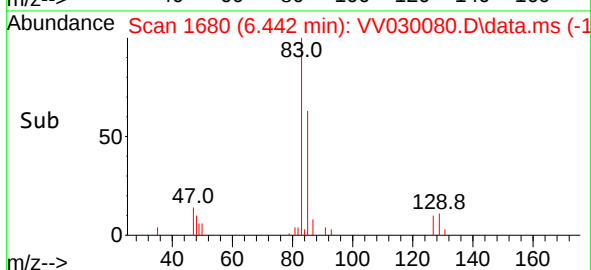
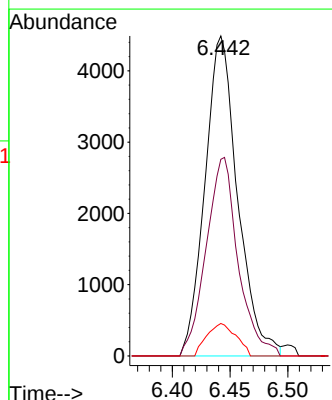
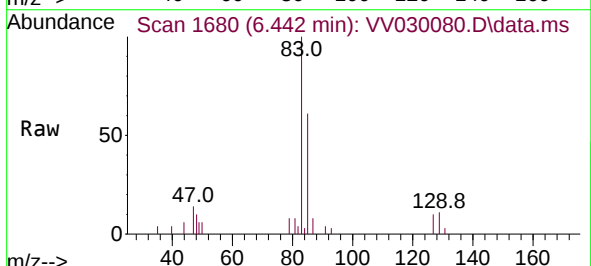
Tgt Ion: 83 Resp: 8839

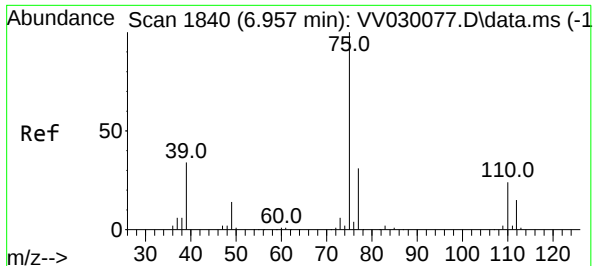
Ion Ratio Lower Upper

83 100

85 61.4 44.9 83.5

127 10.2 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 2.092 ug/L

RT: 6.966 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

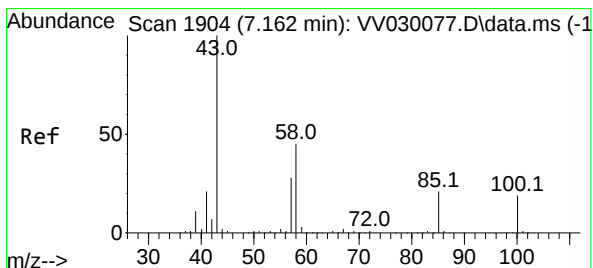
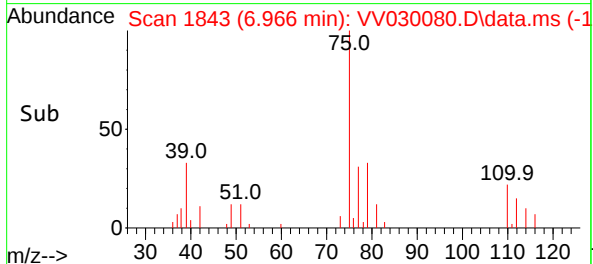
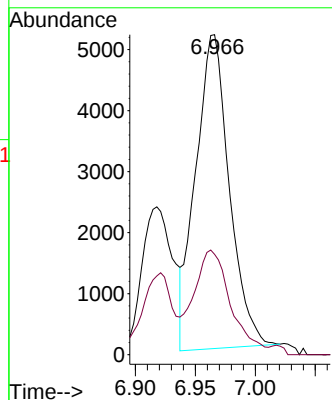
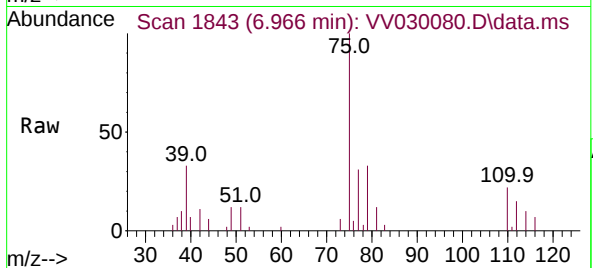
MDL-WATER-QT1-2023-02

Tgt Ion: 75 Resp: 10026

Ion Ratio Lower Upper

75 100

77 31.3 22.4 41.6



#40

4-Methyl-2-pentanone

Concen: 3.870 ug/L

RT: 7.169 min Scan# 1906

Delta R.T. 0.006 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

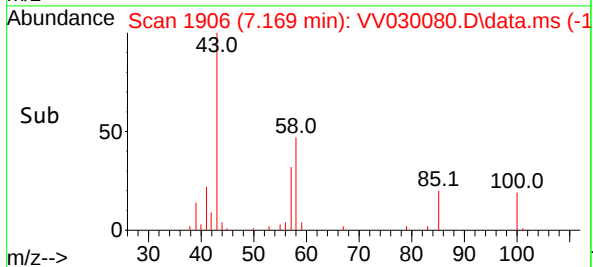
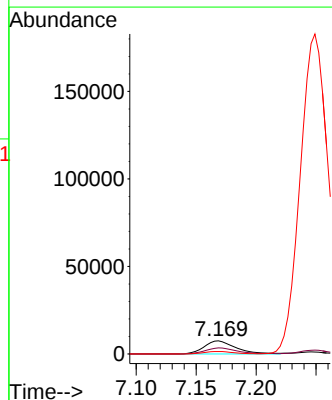
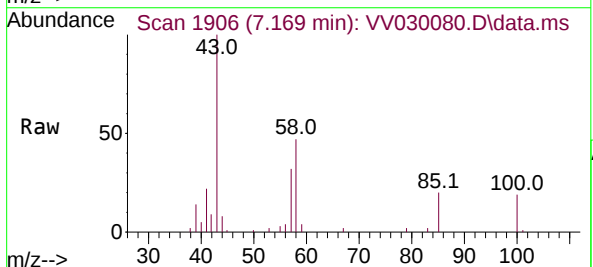
Tgt Ion: 43 Resp: 13712

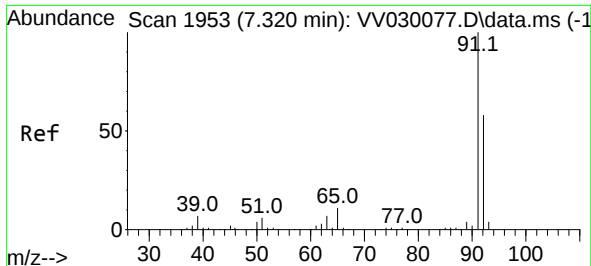
Ion Ratio Lower Upper

43 100

58 46.7 34.8 52.2

100 17.8 14.6 22.0





#42

Toluene

Concen: 2.255 ug/L

RT: 7.323 min Scan# 1953

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

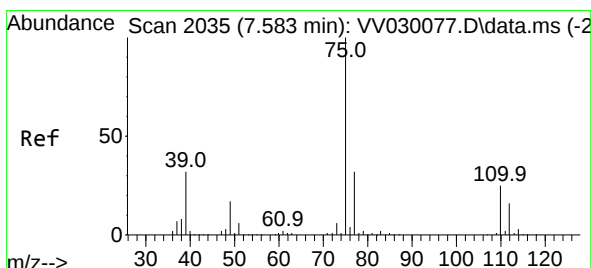
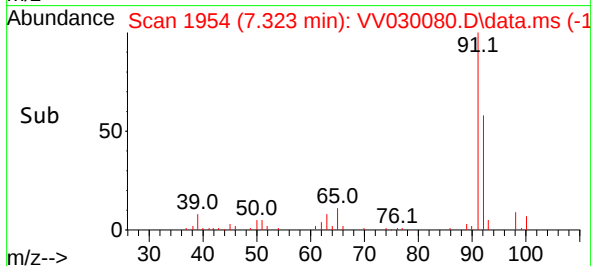
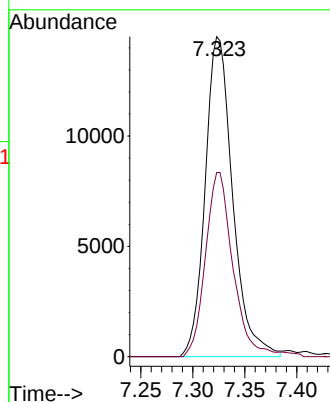
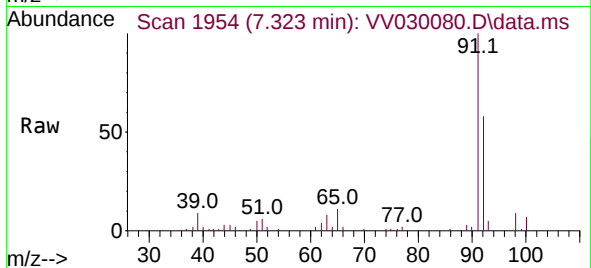
MDL-WATER-QT1-2023-02

Tgt Ion: 91 Resp: 26708

Ion Ratio Lower Upper

91 100

92 57.6 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 2.879 ug/L

RT: 7.593 min Scan# 2038

Delta R.T. 0.010 min

Lab File: VV030080.D

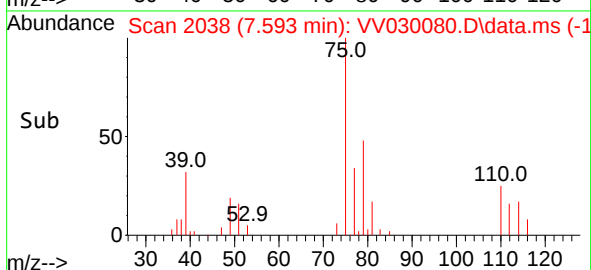
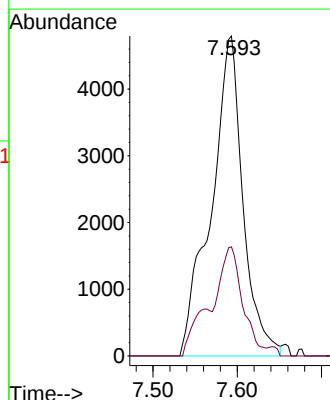
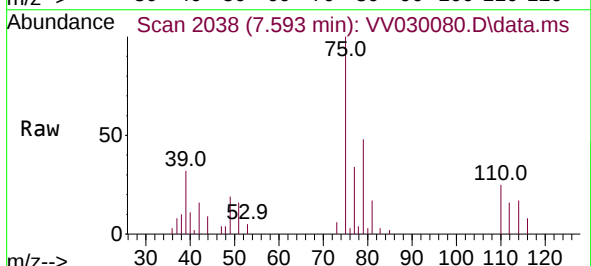
Acq: 22 Feb 2023 15:36

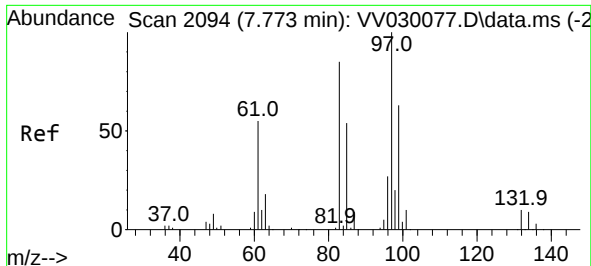
Tgt Ion: 75 Resp: 12546

Ion Ratio Lower Upper

75 100

77 34.1 22.3 41.5





#45

1,1,2-Trichloroethane

Concen: 2.311 ug/L

RT: 7.776 min Scan# 2094

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT1-2023-02

Tgt Ion: 97 Resp: 6838

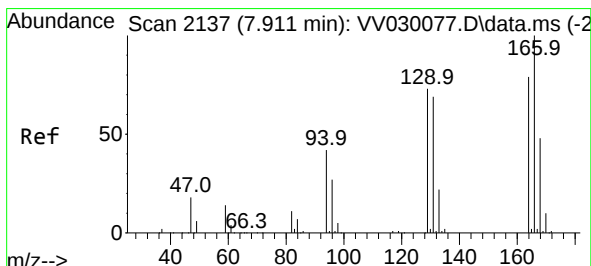
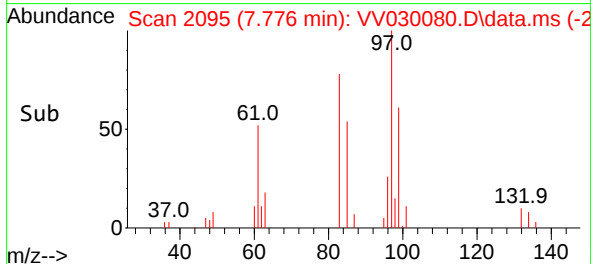
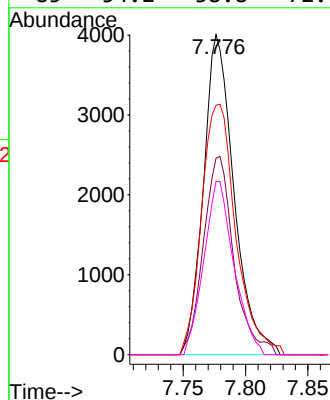
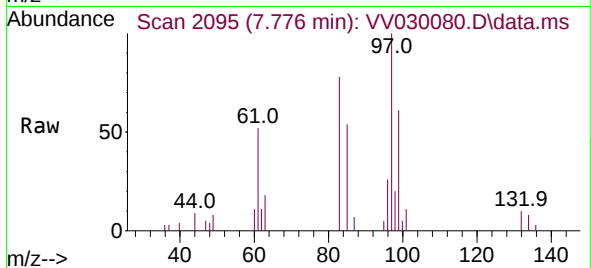
Ion Ratio Lower Upper

97 100

99 61.4 43.8 81.4

83 78.0 59.9 111.3

85 54.2 38.8 72.0



#46

Tetrachloroethene

Concen: 2.261 ug/L

RT: 7.915 min Scan# 2138

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Tgt Ion: 164 Resp: 5600

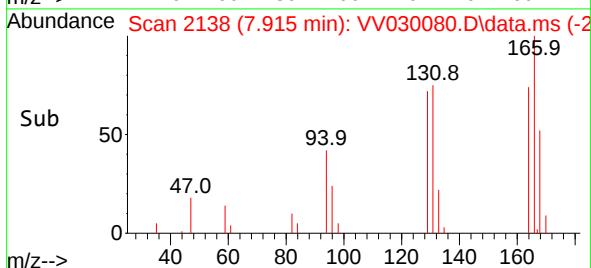
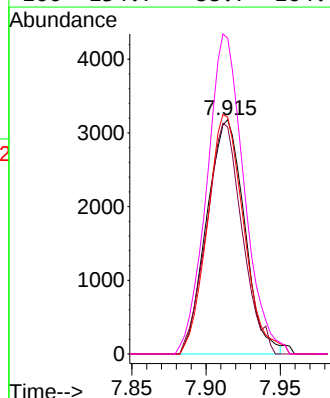
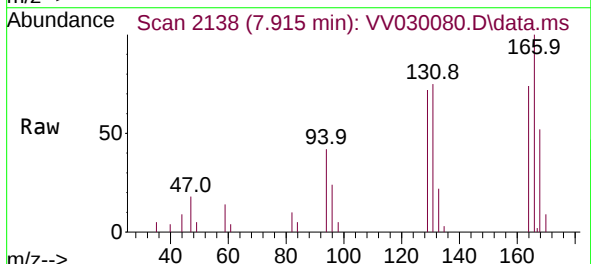
Ion Ratio Lower Upper

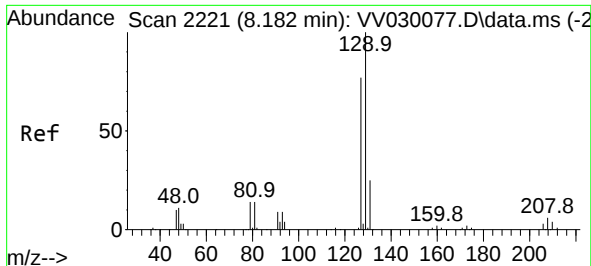
164 100

129 96.9 65.2 121.0

131 101.0 63.1 117.3

166 134.7 88.7 164.7





#49

Dibromochloromethane

Concen: 2.348 ug/L

RT: 8.185 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

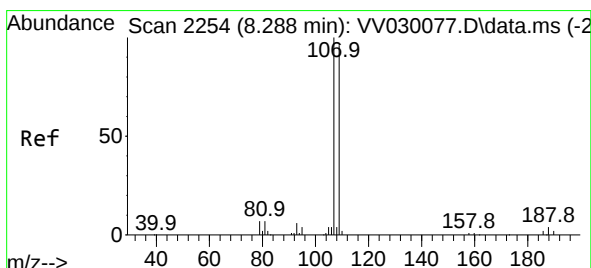
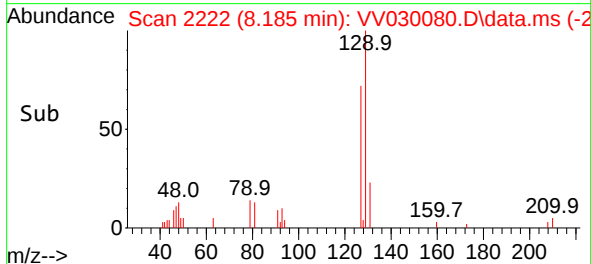
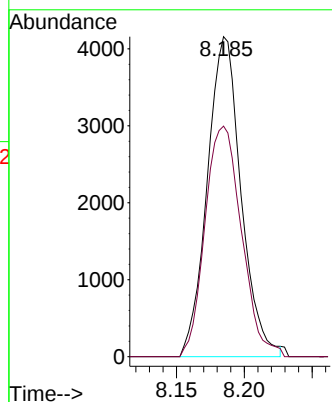
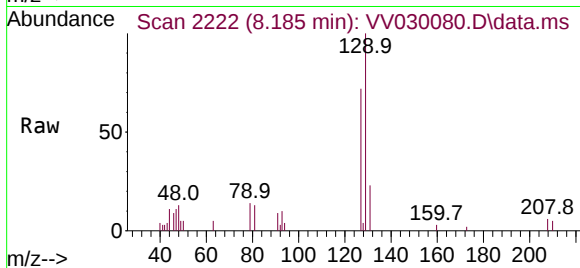
MDL-WATER-QT1-2023-02

Tgt Ion:129 Resp: 7203

Ion Ratio Lower Upper

129 100

127 72.1 54.9 102.1



#50

1,2-Dibromoethane

Concen: 2.230 ug/L

RT: 8.291 min Scan# 2255

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

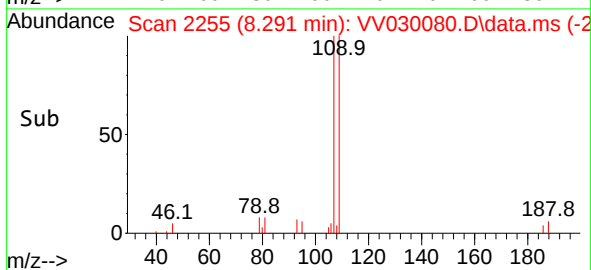
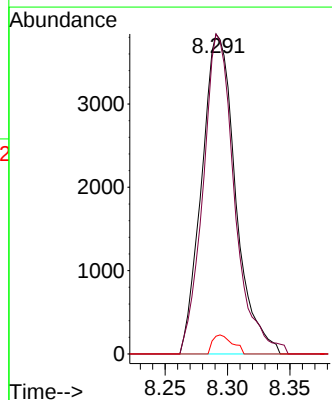
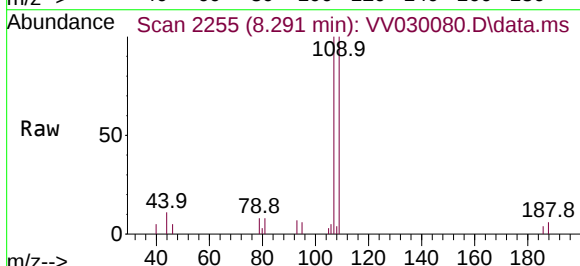
Tgt Ion:107 Resp: 7236

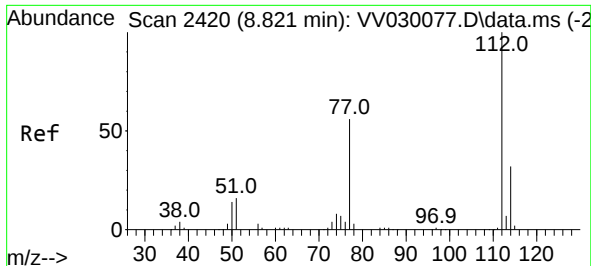
Ion Ratio Lower Upper

107 100

109 100.1 66.0 122.6

188 5.5 3.4 5.0#

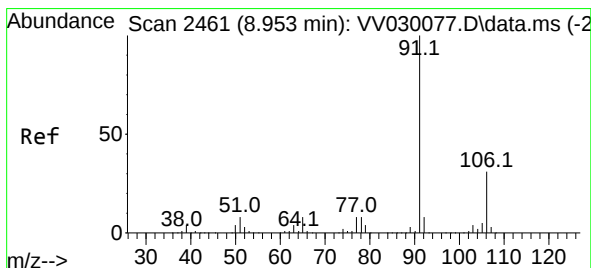
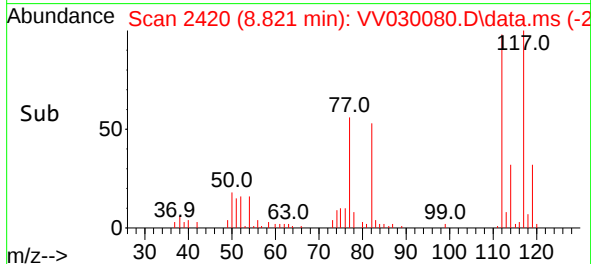
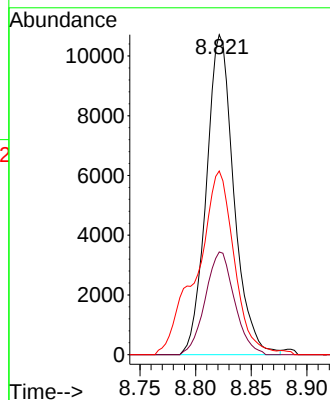
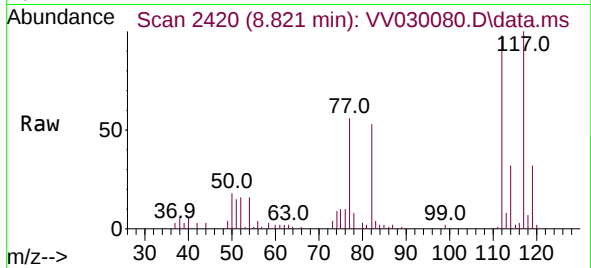




#51  
Chlorobenzene  
Concen: 2.338 ug/L  
RT: 8.821 min Scan# 2420  
Delta R.T. -0.000 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

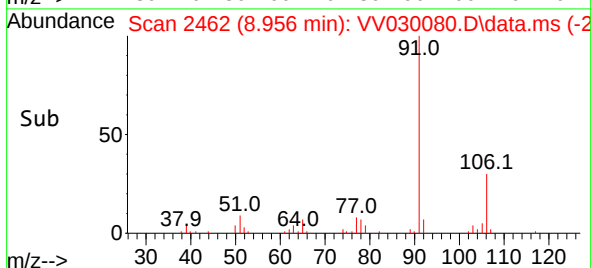
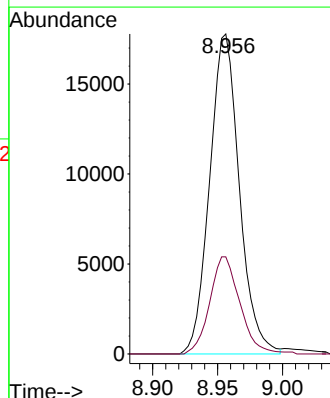
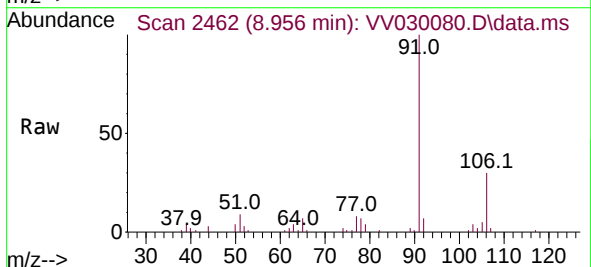
Instrument : MSVOA\_V  
ClientSampleId : MDL-WATER-QT1-2023-02

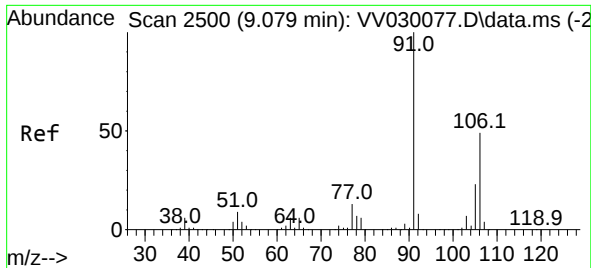
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:112 | Resp: | 18454     |
| Ion Ratio   | Lower | Upper     |
| 112         | 100   |           |
| 114         | 32.1  | 22.3 41.3 |
| 77          | 57.4  | 46.0 69.0 |



#52  
Ethylbenzene  
Concen: 2.154 ug/L  
RT: 8.956 min Scan# 2462  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 91 | Resp: | 28242     |
| Ion Ratio   | Lower | Upper     |
| 91          | 100   |           |
| 106         | 30.3  | 22.0 40.8 |

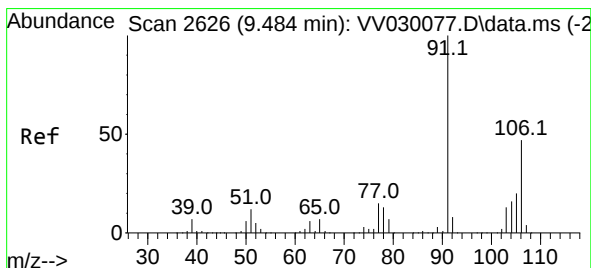
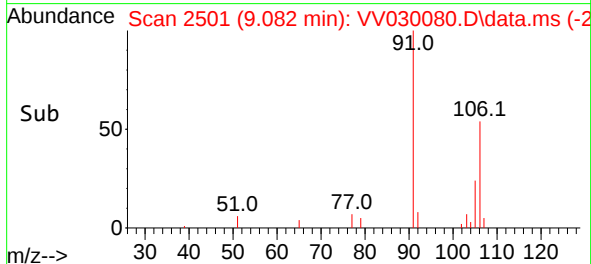
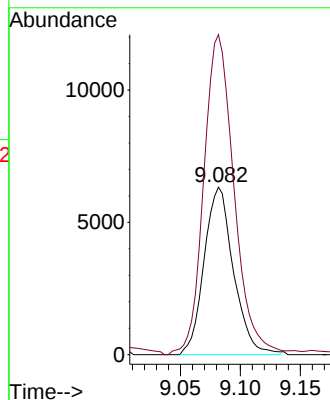
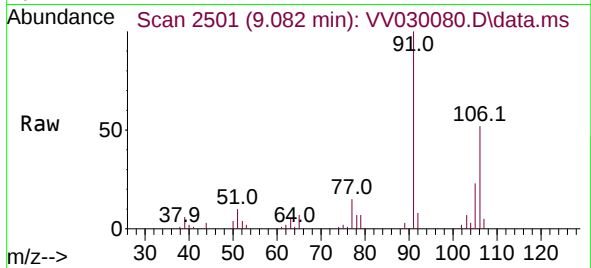




#53  
m,p-Xylene  
Concen: 2.152 ug/L  
RT: 9.082 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

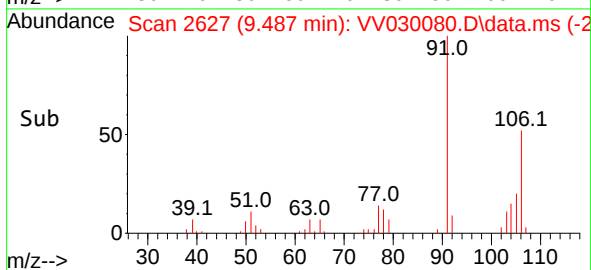
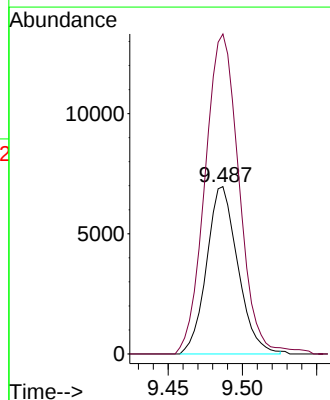
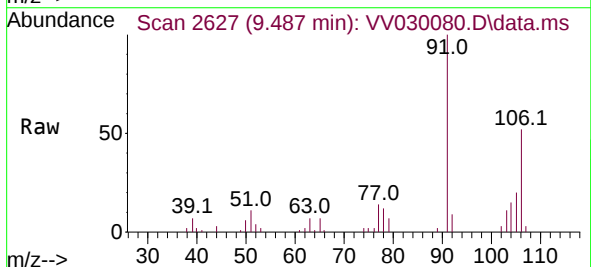
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

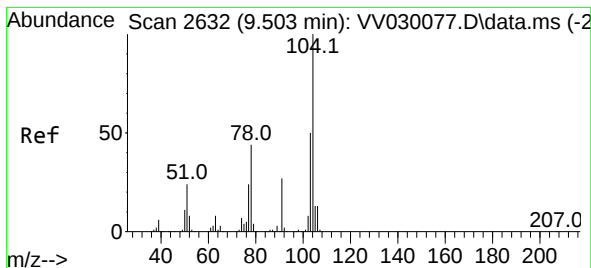
Tgt Ion:106 Resp: 10782  
Ion Ratio Lower Upper  
106 100  
91 191.0 142.0 263.8



#54  
o-Xylene  
Concen: 2.112 ug/L  
RT: 9.487 min Scan# 2627  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

Tgt Ion:106 Resp: 10197  
Ion Ratio Lower Upper  
106 100  
91 191.1 151.5 281.3





#55

Styrene

Concen: 1.967 ug/L

RT: 9.506 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

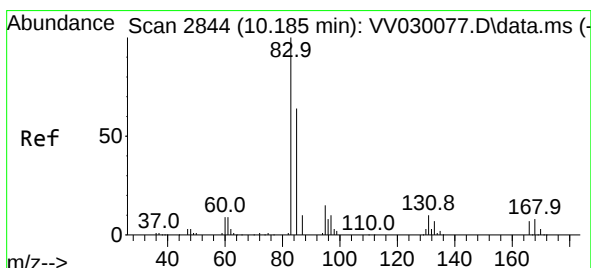
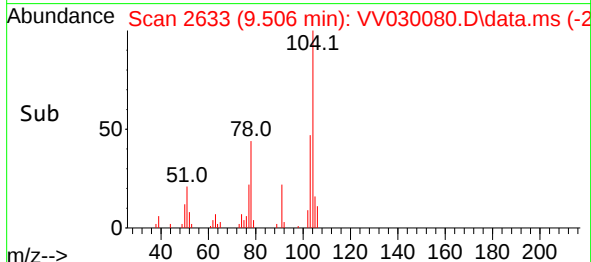
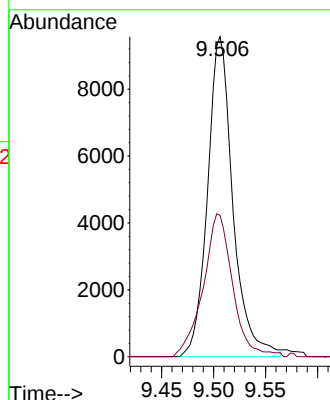
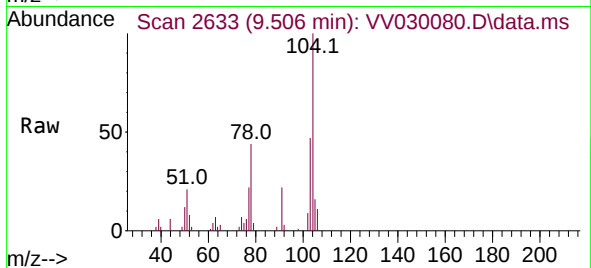
MDL-WATER-QT1-2023-02

Tgt Ion:104 Resp: 16223

Ion Ratio Lower Upper

104 100

78 44.2 31.9 59.2



#57

1,1,2,2-Tetrachloroethane

Concen: 2.390 ug/L

RT: 10.185 min Scan# 2844

Delta R.T. -0.000 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

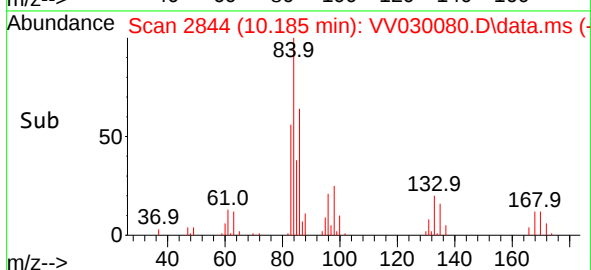
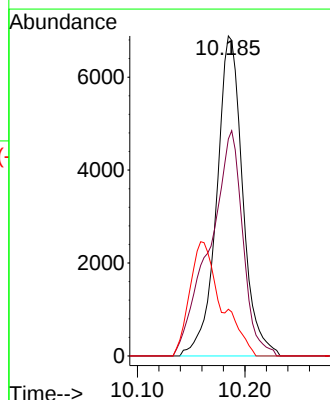
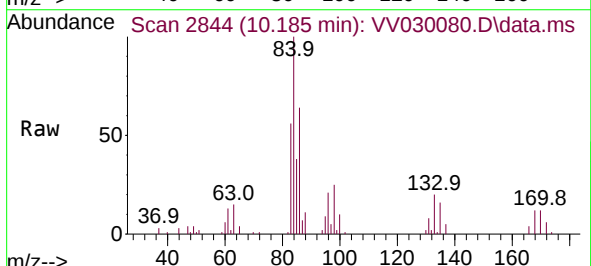
Tgt Ion: 83 Resp: 11560

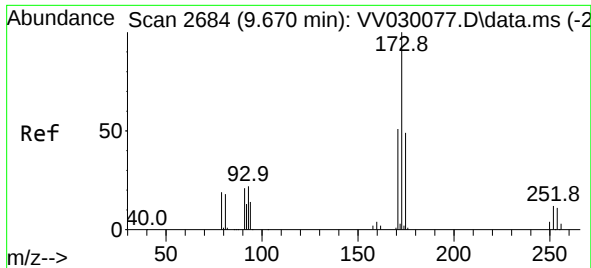
Ion Ratio Lower Upper

83 100

85 67.8 45.5 84.5

131 14.6 8.3 12.5#





#59

Bromoform

Concen: 2.476 ug/L

RT: 9.673 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

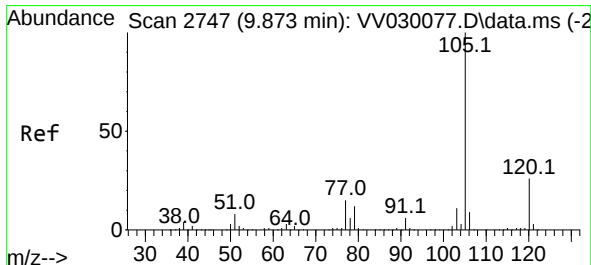
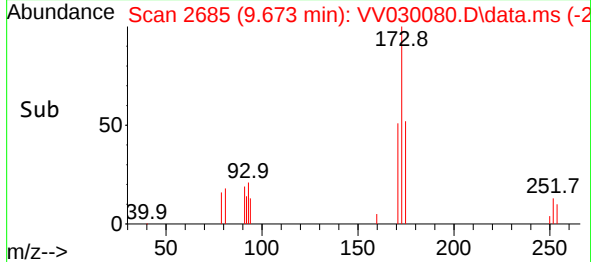
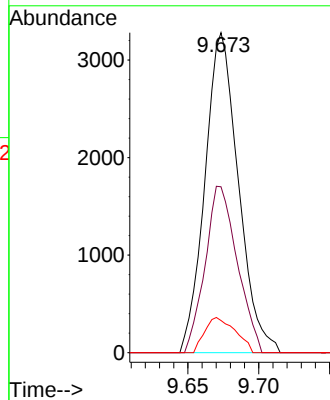
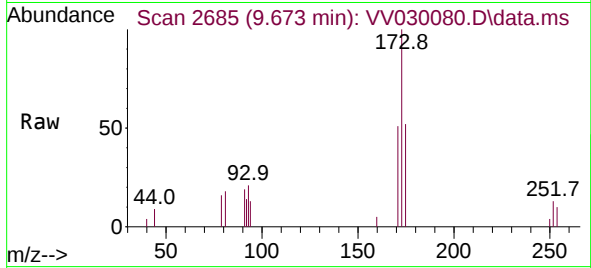
Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-QT1-2023-02

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:173 | Resp: | 5385      |
| Ion Ratio   | Lower | Upper     |
| 173         | 100   |           |
| 175         | 49.8  | 38.7 58.1 |
| 254         | 10.1  | 8.7 13.1  |



#60

Isopropylbenzene

Concen: 2.053 ug/L

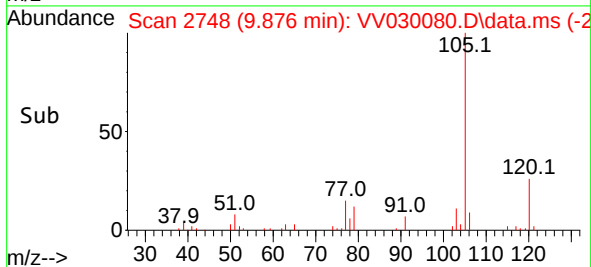
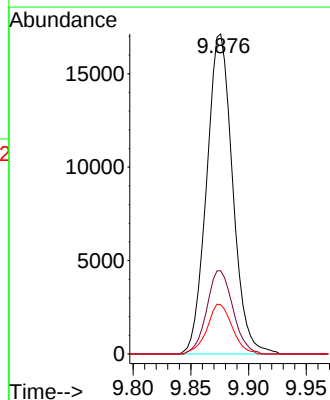
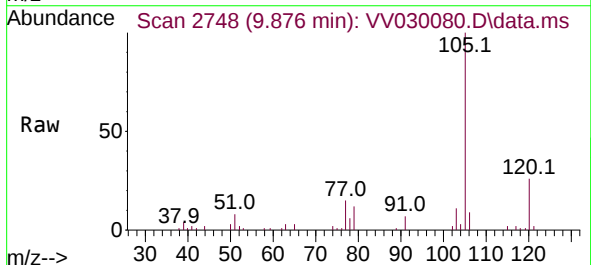
RT: 9.876 min Scan# 2748

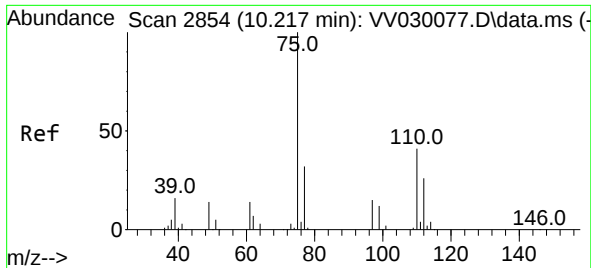
Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:105 | Resp: | 26816     |
| Ion Ratio   | Lower | Upper     |
| 105         | 100   |           |
| 120         | 26.2  | 21.4 32.0 |
| 77          | 15.1  | 12.2 18.2 |

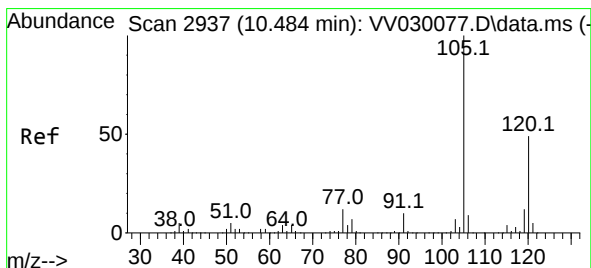
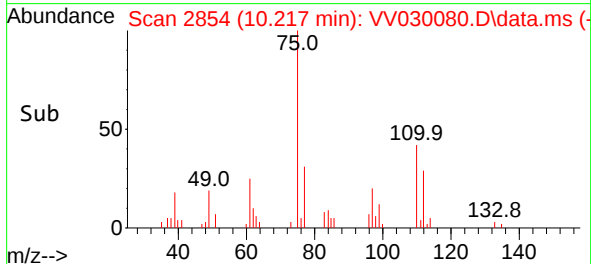
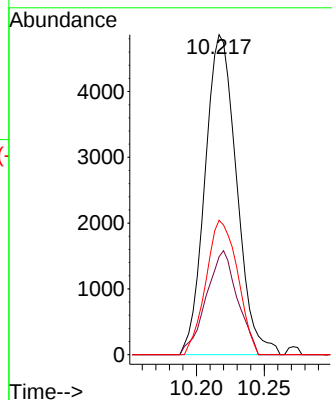
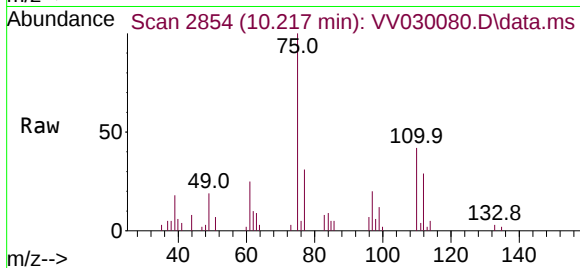




#61  
1,2,3-Trichloropropane  
Concen: 2.172 ug/L  
RT: 10.217 min Scan# 2184  
Delta R.T. -0.000 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

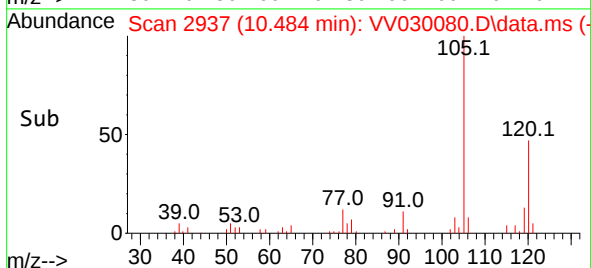
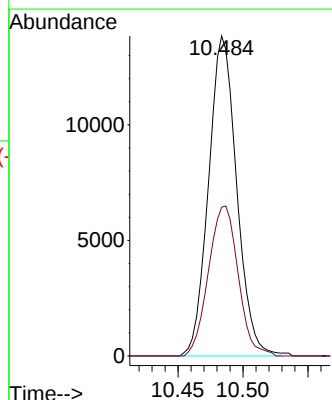
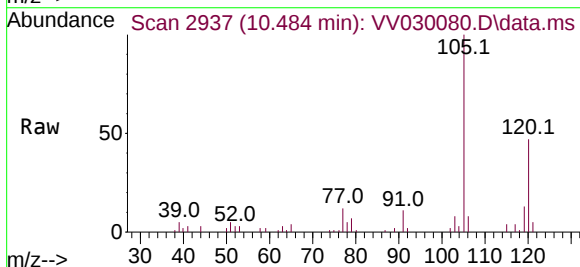
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

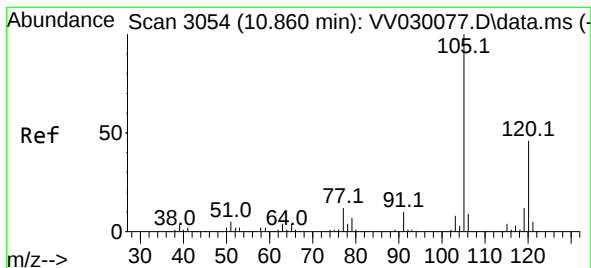
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 7893  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 32.1  | 25.9  | 38.9  |
| 110      | 42.0  | 32.1  | 48.1  |



#62  
1,3,5-Trimethylbenzene  
Concen: 1.926 ug/L  
RT: 10.484 min Scan# 2937  
Delta R.T. -0.000 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 20836 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 49.4  | 39.0  | 58.4  |





#63

1,2,4-Trimethylbenzene

Concen: 1.848 ug/L

RT: 10.860 min Scan# 3054

Delta R.T. -0.000 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

Instrument :

MSVOA\_V

ClientSampleId :

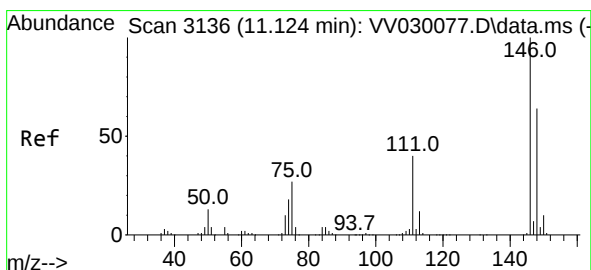
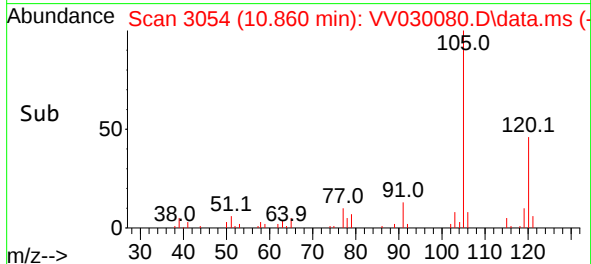
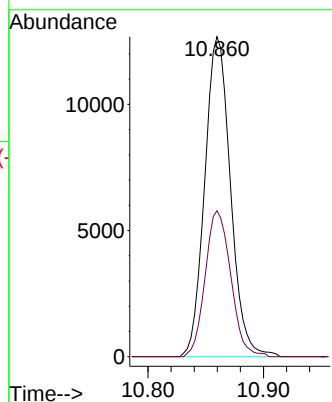
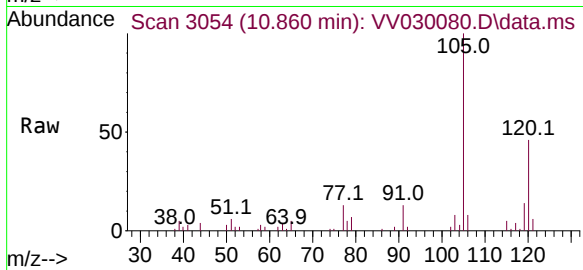
MDL-WATER-QT1-2023-02

Tgt Ion:105 Resp: 19650

Ion Ratio Lower Upper

105 100

120 45.2 36.3 54.5



#64

1,3-Dichlorobenzene

Concen: 2.279 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.003 min

Lab File: VV030080.D

Acq: 22 Feb 2023 15:36

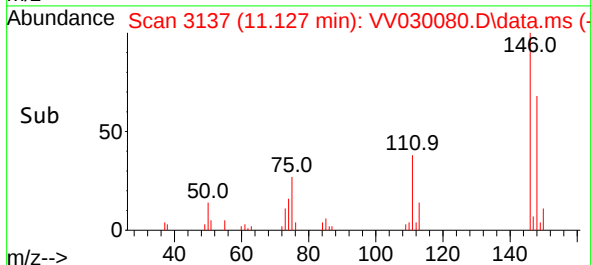
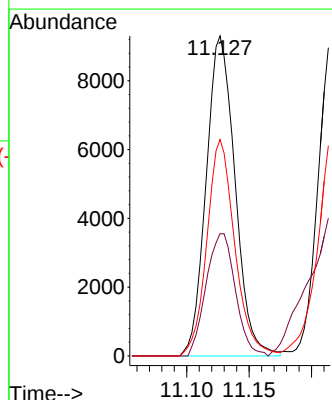
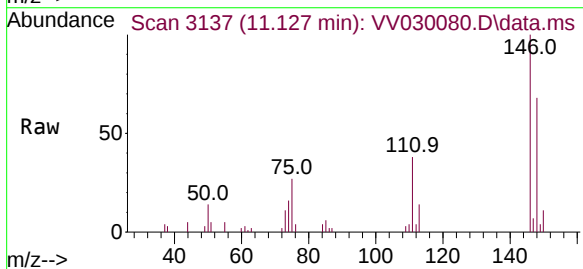
Tgt Ion:146 Resp: 15000

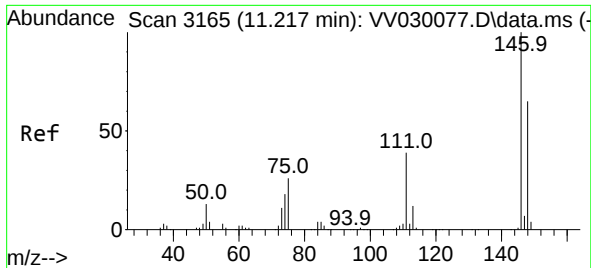
Ion Ratio Lower Upper

146 100

111 38.2 28.2 52.4

148 67.7 45.3 84.1

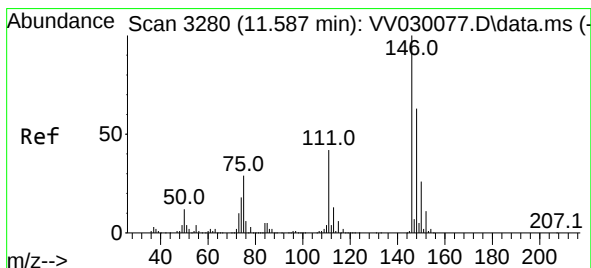
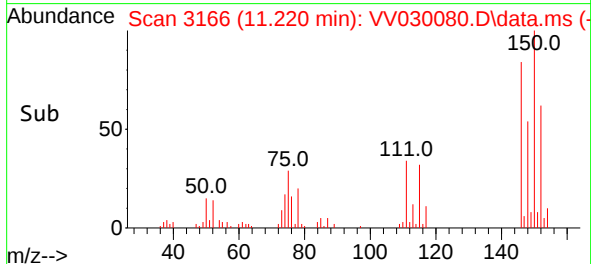
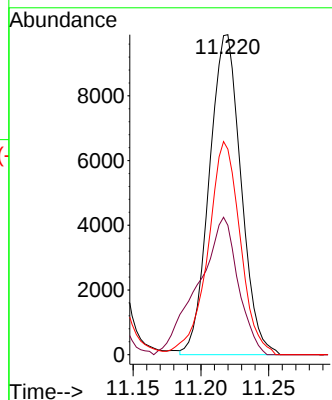
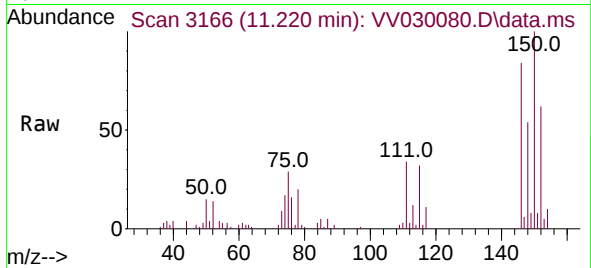




#65  
1,4-Dichlorobenzene  
Concen: 2.386 ug/L  
RT: 11.220 min Scan# 3165  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

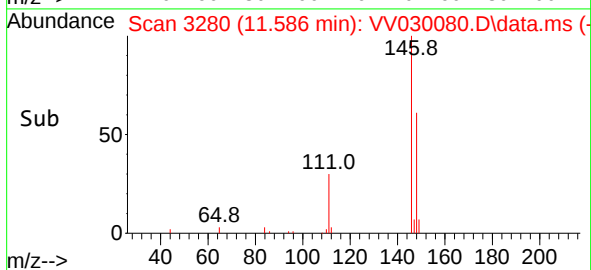
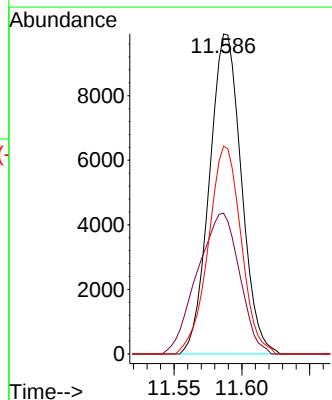
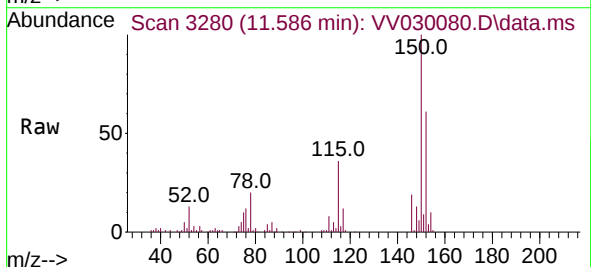
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

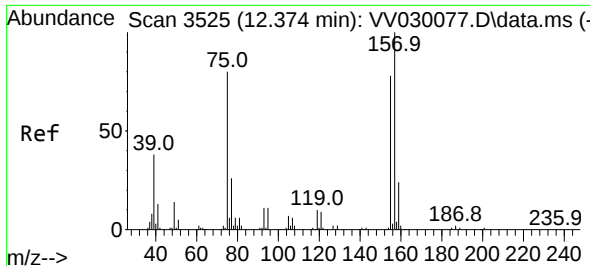
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 16073     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 40.4  | 27.1 50.3 |
| 148         | 64.2  | 44.9 83.5 |



#67  
1,2-Dichlorobenzene  
Concen: 2.474 ug/L  
RT: 11.586 min Scan# 3280  
Delta R.T. -0.000 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 16212     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 44.0  | 33.0 49.4 |
| 148         | 64.9  | 50.7 76.1 |

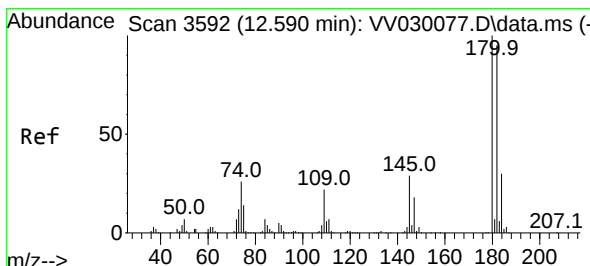
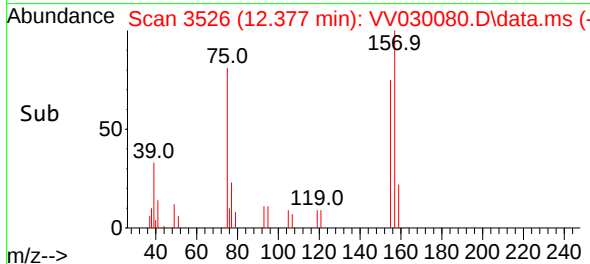
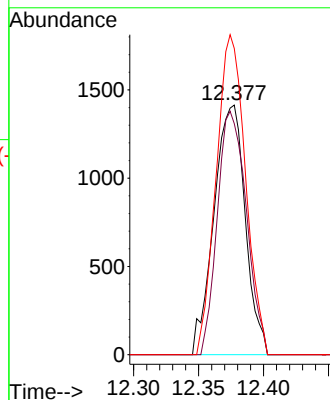
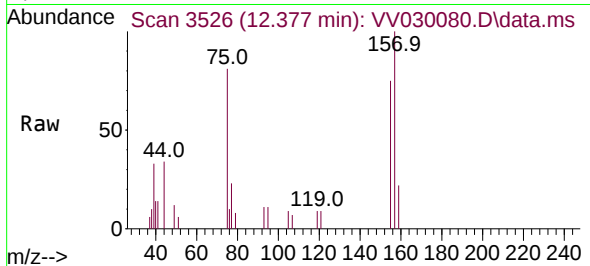




#68  
1,2-Dibromo-3-chloropropane  
Concen: 2.233 ug/L  
RT: 12.377 min Scan# 3526  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

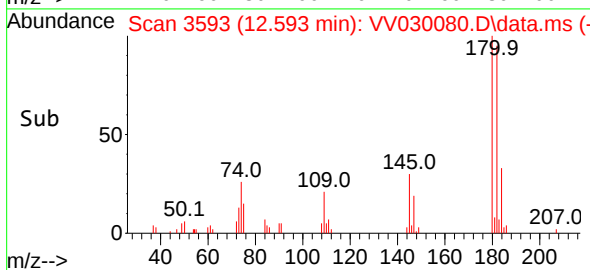
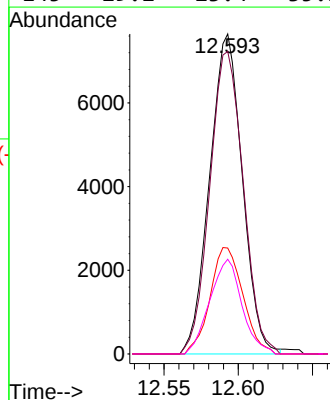
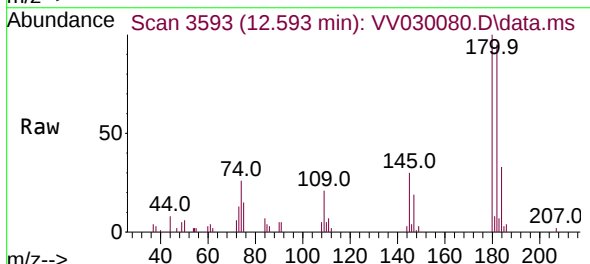
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

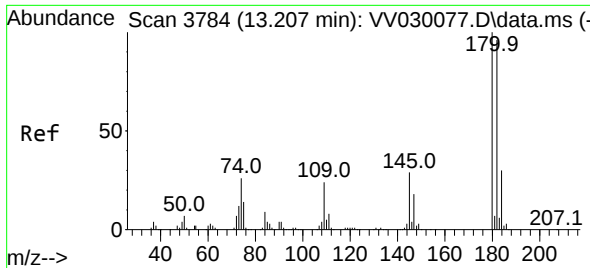
Tgt Ion: 75 Resp: 2368  
Ion Ratio Lower Upper  
75 100  
155 92.6 76.2 114.2  
157 122.7 96.0 144.0



#69  
1,3,5-Trichlorobenzene  
Concen: 2.227 ug/L  
RT: 12.593 min Scan# 3593  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

Tgt Ion: 180 Resp: 11695  
Ion Ratio Lower Upper  
180 100  
182 96.8 76.4 114.6  
184 33.5 24.5 36.7  
145 29.2 23.4 35.2

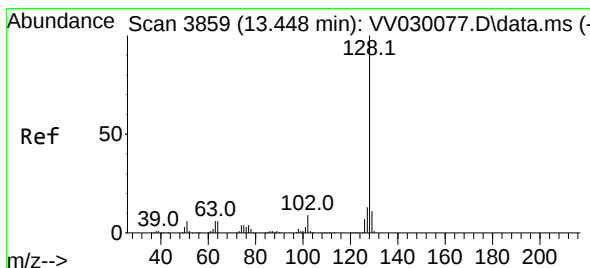
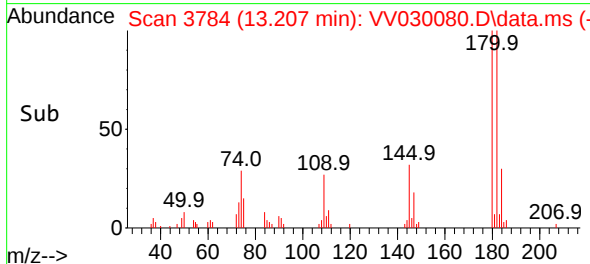
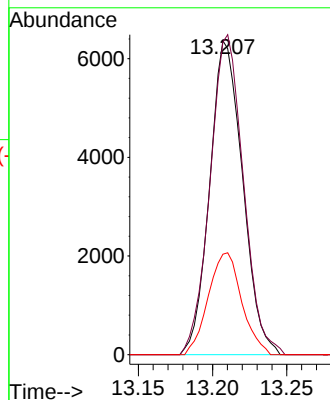
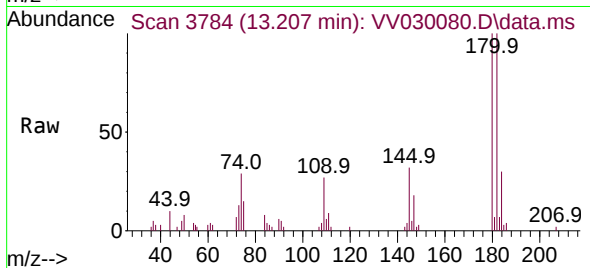




#70  
1,2,4-trichlorobenzene  
Concen: 1.985 ug/L  
RT: 13.207 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

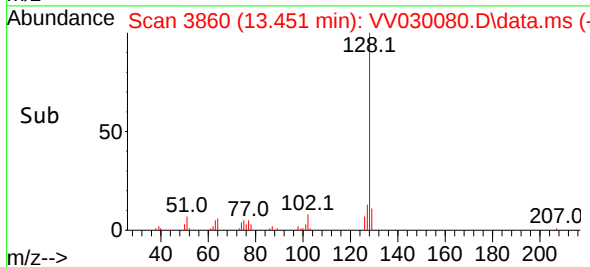
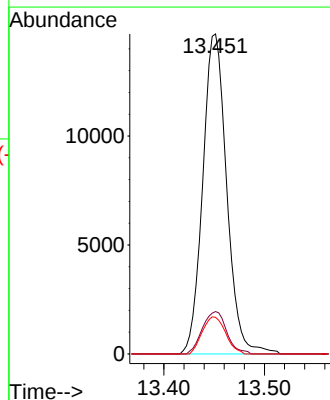
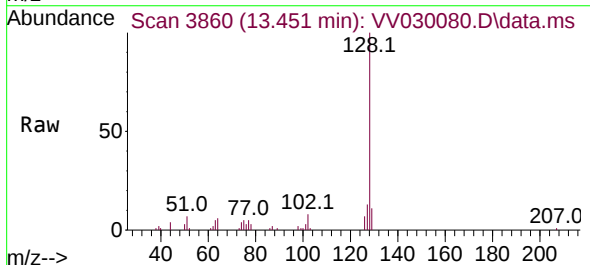
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-QT1-2023-02

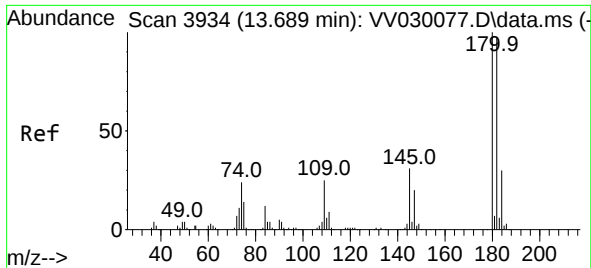
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 9802  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 103.4 | 76.6  | 114.8 |
| 145      | 33.0  | 24.3  | 36.5  |



#71  
Naphthalene  
Concen: 1.698 ug/L  
RT: 13.451 min Scan# 3860  
Delta R.T. 0.003 min  
Lab File: VV030080.D  
Acq: 22 Feb 2023 15:36

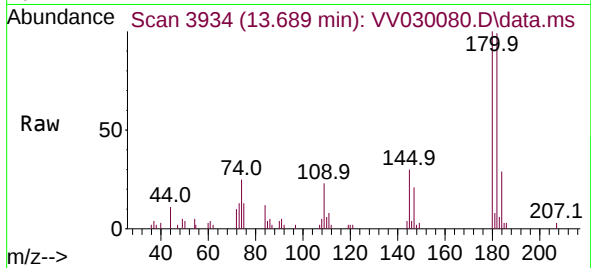
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 24320 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.5  | 10.2  | 15.4  |
| 129      | 11.3  | 8.8   | 13.2  |





#72  
 1,2,3-Trichlorobenzene  
 Concen: 1.996 ug/L  
 RT: 13.689 min Scan# 3934  
 Delta R.T. -0.000 min  
 Lab File: VV030080.D  
 Acq: 22 Feb 2023 15:36

Instrument : MSVOA\_V  
 ClientSampleId : MDL-WATER-QT1-2023-02



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 9671  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 101.9 | 75.8  | 113.8 |
| 145      | 29.8  | 25.0  | 37.6  |

