

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051921\  
 Data File : VD069201.D  
 Acq On : 19 May 2021 17:24  
 Operator : VA/SY  
 Sample : M2420-04  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: May 20 01:02:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 2021  
 Response via : Initial Calibration

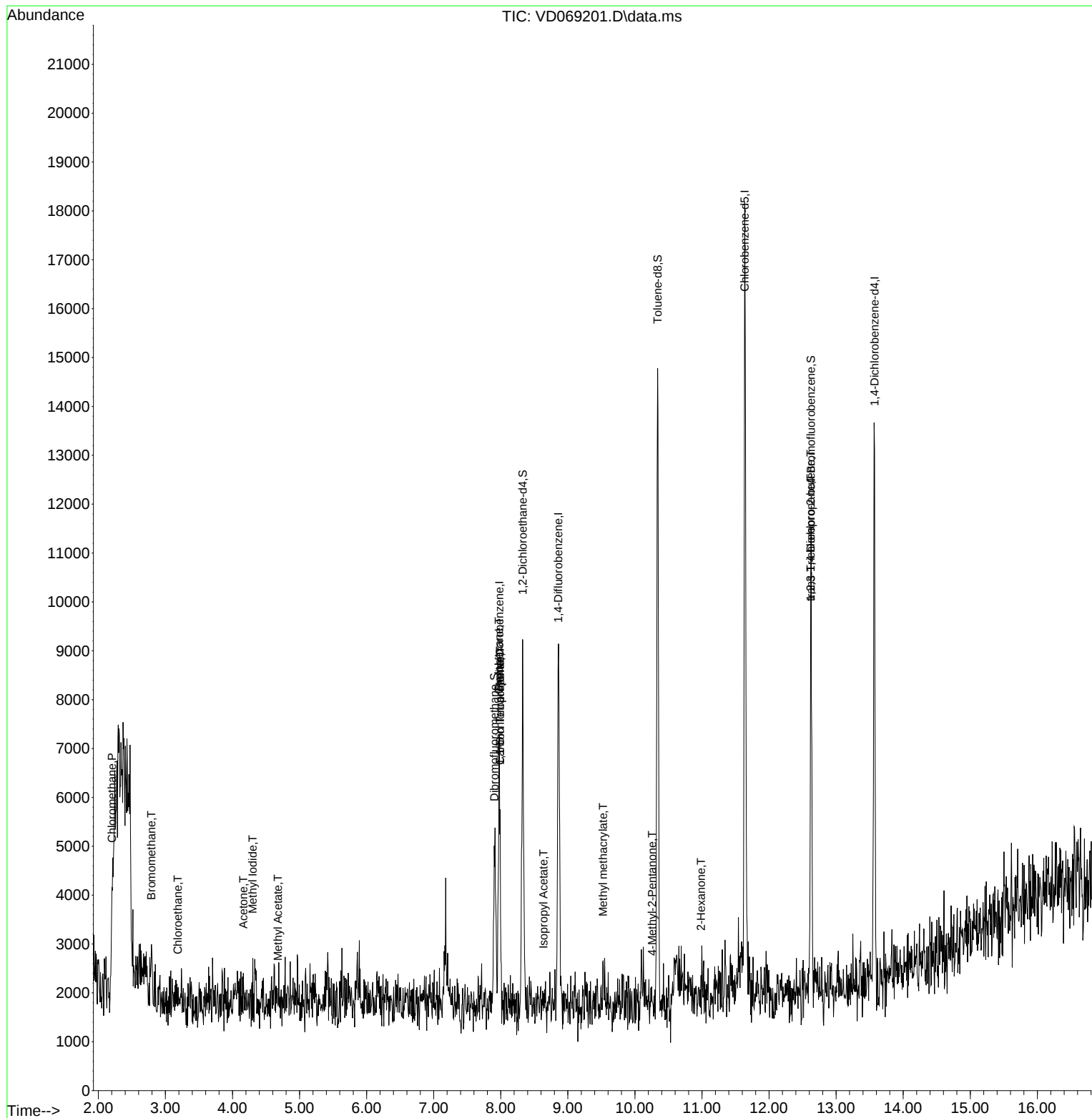
| Compound                      | R.T.     | QIon  | Response | Conc      | Units   | Dev(Min) |
|-------------------------------|----------|-------|----------|-----------|---------|----------|
| -----                         |          |       |          |           |         |          |
| Internal Standards            |          |       |          |           |         |          |
| 1) Pentafluorobenzene         | 7.979    | 168   | 4285     | 50.00     | ug/l    | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.855    | 114   | 7980     | 50.00     | ug/l    | -0.01    |
| 63) Chlorobenzene-d5          | 11.638   | 117   | 9333     | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.573   | 152   | 3593     | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds   |          |       |          |           |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.326    | 65    | 5698     | 132.64    | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range 50 | - 163 | Recovery | =         | 265.28% | #        |
| 35) Dibromofluoromethane      | 7.902    | 113   | 2529     | 48.70     | ug/l    | -0.02    |
| Spiked Amount 50.000          | Range 54 | - 147 | Recovery | =         | 97.40%  |          |
| 50) Toluene-d8                | 10.338   | 98    | 9478     | 49.67     | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range 49 | - 140 | Recovery | =         | 99.34%  |          |
| 62) 4-Bromofluorobenzene      | 12.626   | 95    | 3377     | 55.00     | ug/l    | 0.00     |
| Spiked Amount 50.000          | Range 25 | - 144 | Recovery | =         | 110.00% |          |
| Target Compounds              |          |       |          |           |         |          |
|                               |          |       |          |           |         | Qvalue   |
| 3) Chloromethane              | 2.203    | 50    | 498      | 9.51      | ug/l    | # 42     |
| 5) Bromomethane               | 2.791    | 94    | 983      | 18.93     | ug/l    | # 59     |
| 6) Chloroethane               | 3.185    | 64    | 58       | 1.31      | ug/l    | # 43     |
| 10) Methyl Iodide             | 4.303    | 142   | 193      | 4.74      | ug/l    | # 38     |
| 16) Acetone                   | 4.161    | 43    | 151      | 22.95     | ug/l    | # 65     |
| 18) Methyl Acetate            | 4.679    | 43    | 58       | 3.63      | ug/l    | # 45     |
| 20) Methylene Chloride        | 4.967    | 84    | 77       | Below Cal | #       | 31       |
| 31) Cyclohexane               | 7.973    | 56    | 141      | 2.21      | ug/l    | # 6      |
| 36) 1,1-Dichloropropene       | 7.991    | 75    | 271      | 3.49      | ug/l    | # 40     |
| 38) Carbon Tetrachloride      | 7.991    | 117   | 271      | 3.12      | ug/l    | # 12     |
| 43) Isopropyl Acetate         | 8.638    | 43    | 71       | 1.57      | ug/l    | # 46     |
| 48) Methyl methacrylate       | 9.526    | 41    | 54       | 2.58      | ug/l    | # 4      |
| 51) 4-Methyl-2-Pentanone      | 10.255   | 43    | 82       | 3.52      | ug/l    | # 32     |
| 59) 2-Hexanone                | 10.985   | 43    | 58       | 3.73      | ug/l    | # 19     |
| 76) 1,2,3-Trichloropropane    | 12.620   | 75    | 1345     | 49.80     | ug/l    | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.620   | 75    | 1345     | 100.59    | ug/l    | # 14     |
| -----                         |          |       |          |           |         |          |

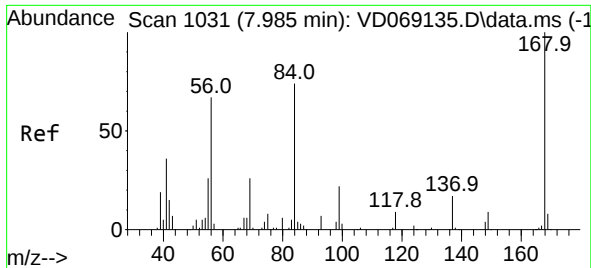
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051921\  
Data File : VD069201.D  
Acq On : 19 May 2021 17:24  
Operator : VA/SY  
Sample : M2420-04  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

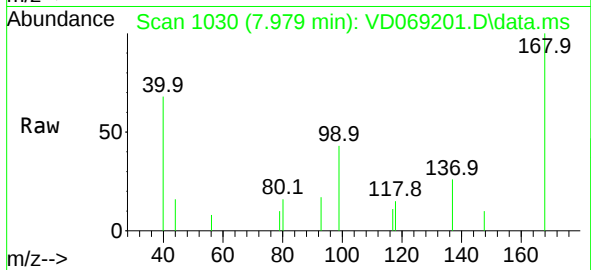
Quant Time: May 20 01:02:46 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 13 04:01:29 2021  
Response via : Initial Calibration



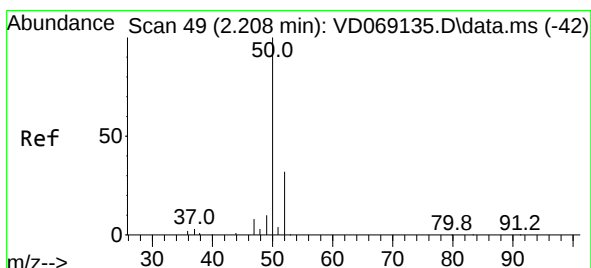
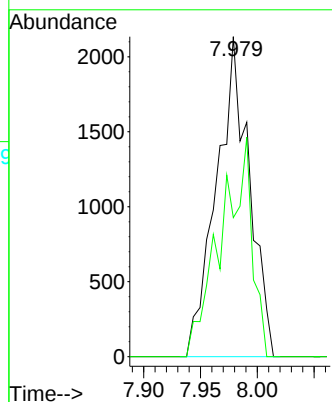
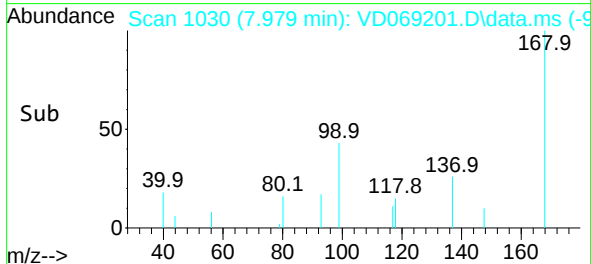


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

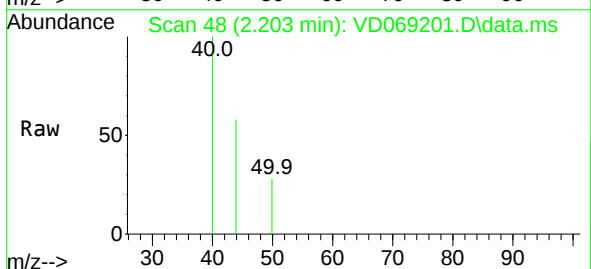
Instrument :  
MSVOA\_D  
ClientSampleId :



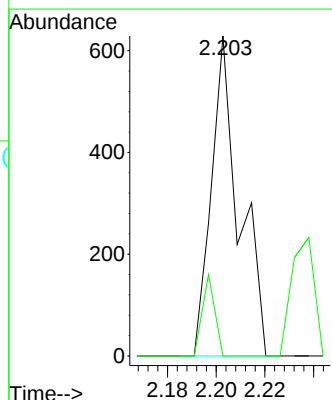
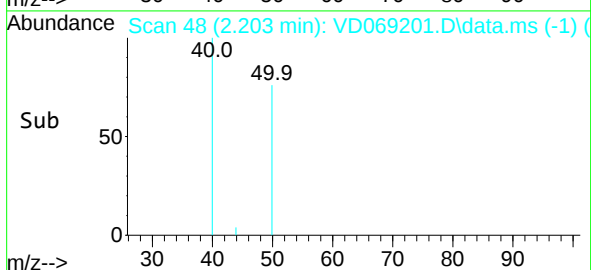
Tgt Ion:168 Resp: 4285  
Ion Ratio Lower Upper  
168 100  
99 43.4 47.2 70.8#

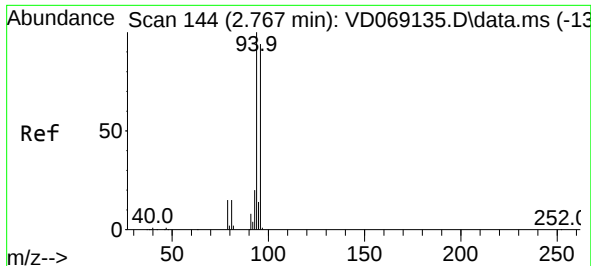


#3  
Chloromethane  
Concen: 9.51 ug/l  
RT: 2.203 min Scan# 48  
Delta R.T. -0.006 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24



Tgt Ion: 50 Resp: 498  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.8 38.8#

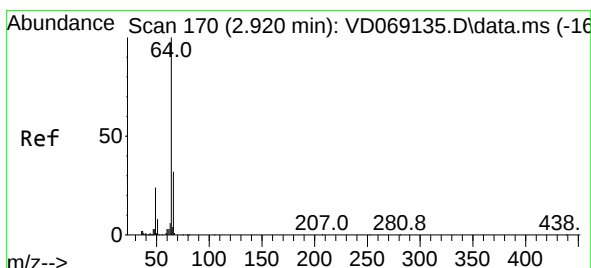
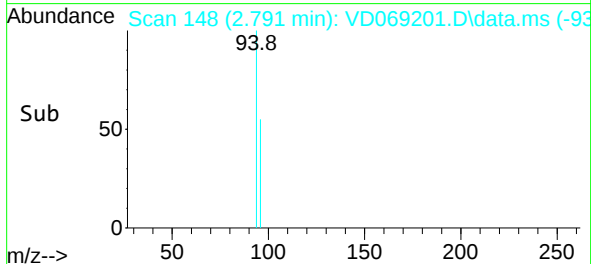
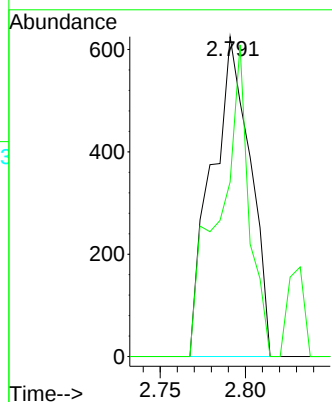
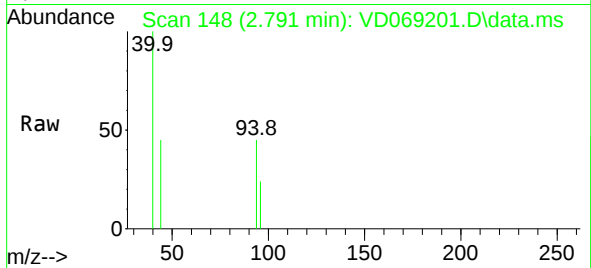




#5  
Bromomethane  
Concen: 18.93 ug/l  
RT: 2.791 min Scan# 148  
Delta R.T. 0.024 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

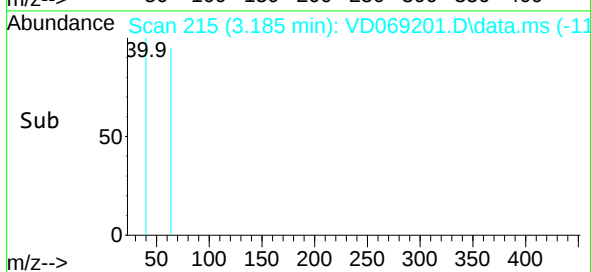
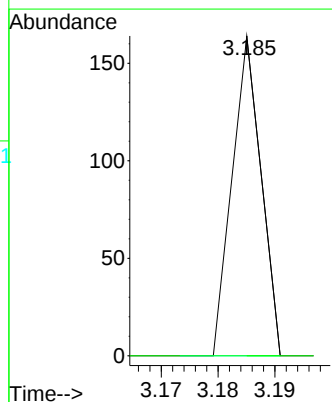
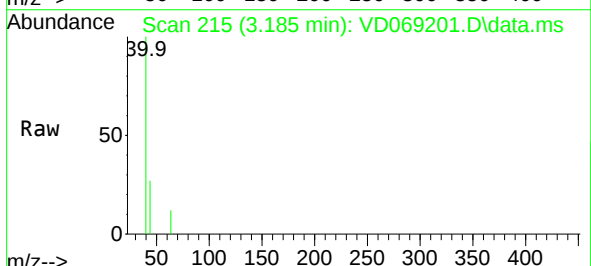
Instrument :  
MSVOA\_D  
ClientSampleId :

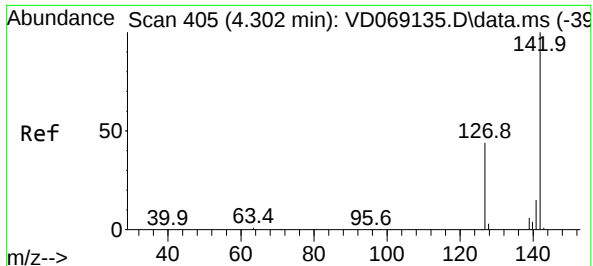
Tgt Ion: 94 Resp: 983  
Ion Ratio Lower Upper  
94 100  
96 54.6 75.4 113.0#



#6  
Chloroethane  
Concen: 1.31 ug/l  
RT: 3.185 min Scan# 215  
Delta R.T. 0.265 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

Tgt Ion: 64 Resp: 58  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.2 37.8#

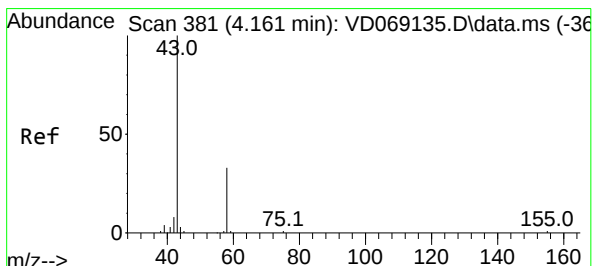
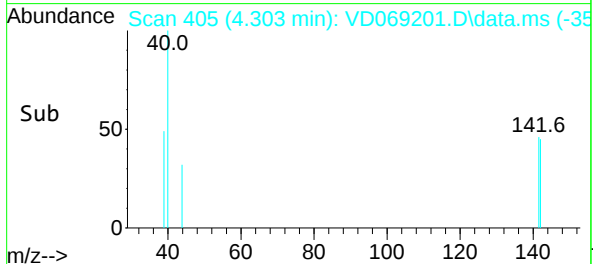
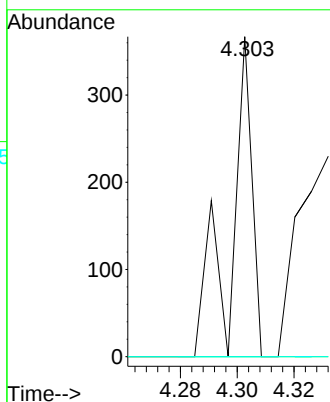
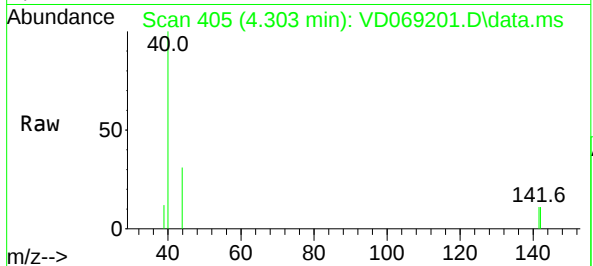




#10  
Methyl Iodide  
Concen: 4.74 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. 0.001 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

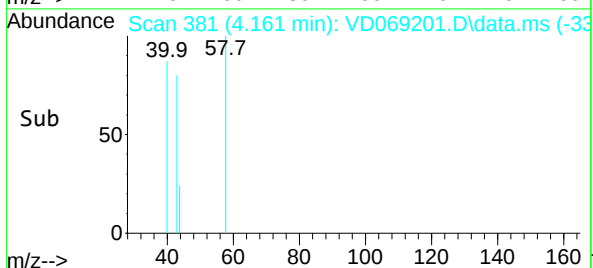
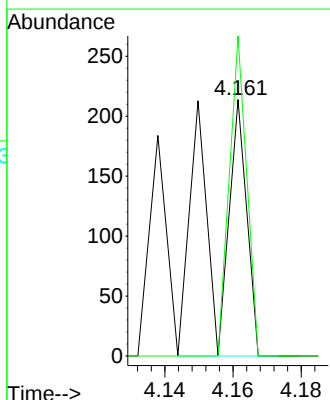
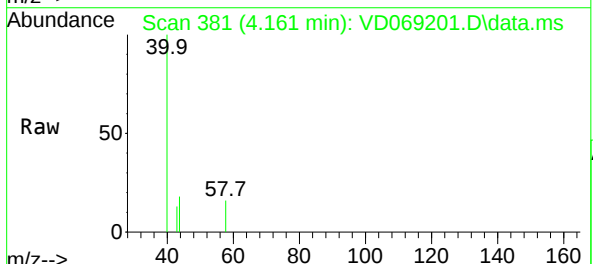
Instrument :  
MSVOA\_D  
ClientSampleId :

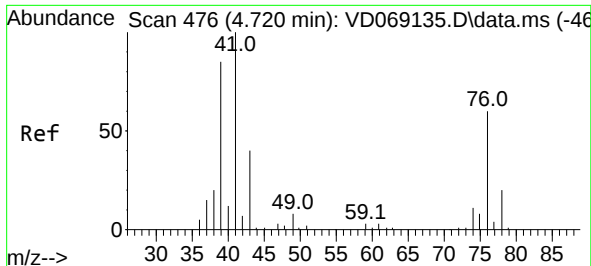
Tgt Ion:142 Resp: 193  
Ion Ratio Lower Upper  
142 100  
127 0.0 37.3 55.9#  
141 0.0 12.2 18.4#



#16  
Acetone  
Concen: 22.95 ug/l  
RT: 4.161 min Scan# 381  
Delta R.T. 0.000 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

Tgt Ion: 43 Resp: 151  
Ion Ratio Lower Upper  
43 100  
58 53.3 26.7 40.1#

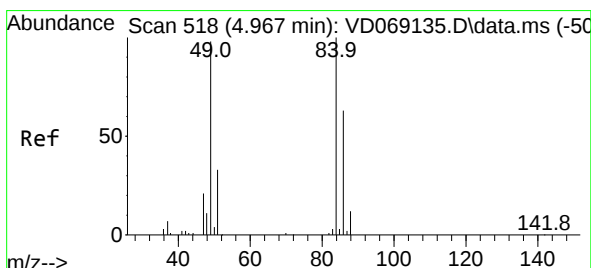
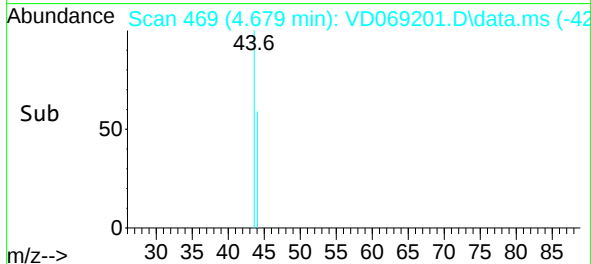
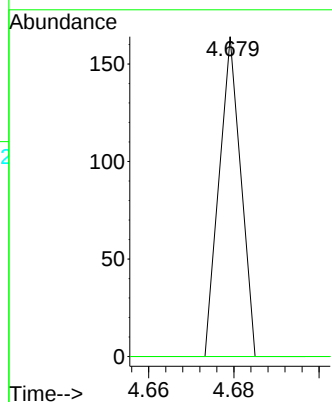
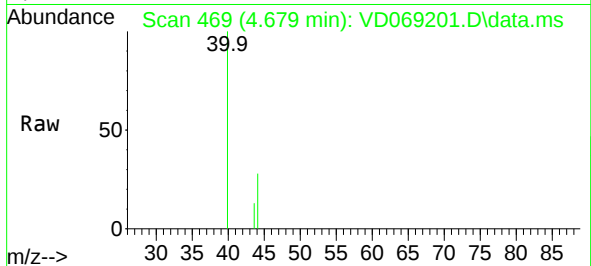




#18  
Methyl Acetate  
Concen: 3.63 ug/l  
RT: 4.679 min Scan# 469  
Delta R.T. -0.041 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

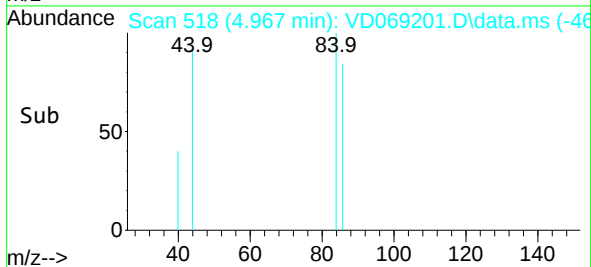
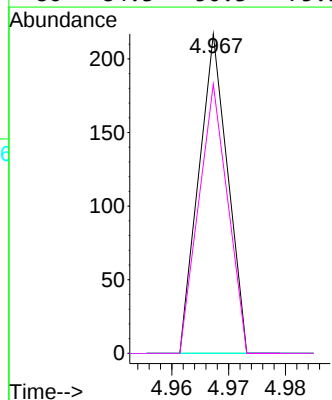
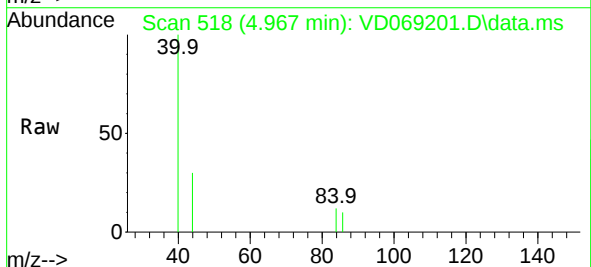
Instrument :  
MSVOA\_D  
ClientSampled :

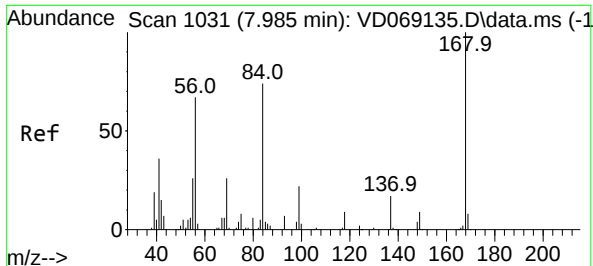
Tgt Ion: 43 Resp: 58  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.8 35.6#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.967 min Scan# 518  
Delta R.T. 0.000 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

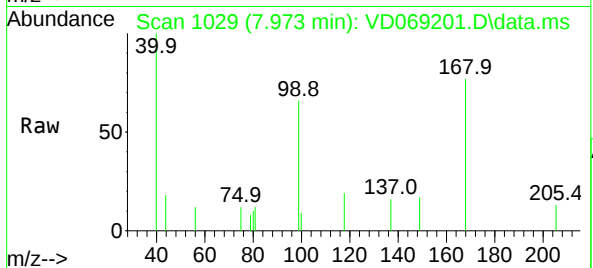
Tgt Ion: 84 Resp: 77  
Ion Ratio Lower Upper  
84 100  
49 0.0 78.6 117.8#  
51 0.0 26.7 40.1#  
86 84.3 50.3 75.5#



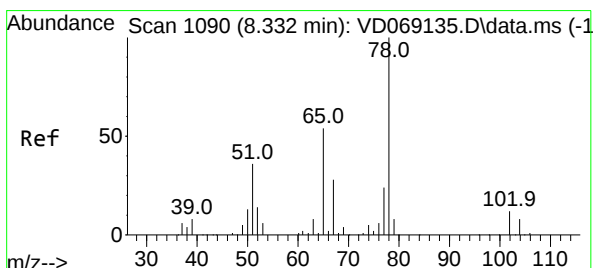
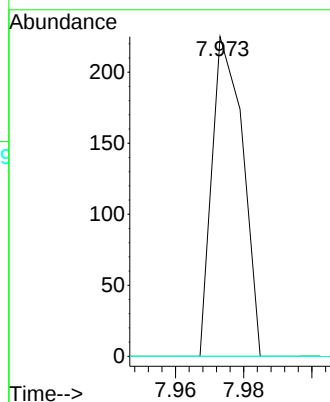
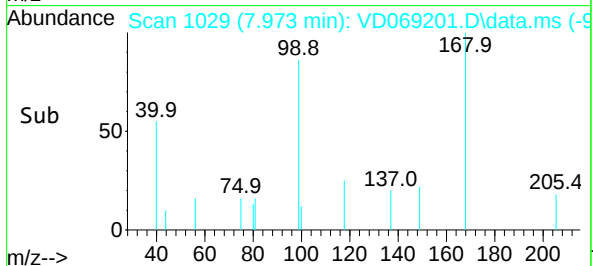


#31  
Cyclohexane  
Concen: 2.21 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.012 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

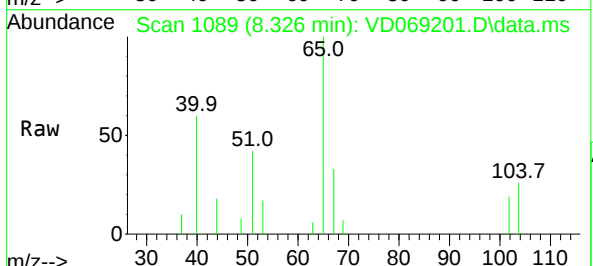
Instrument :  
MSVOA\_D  
ClientSampled :



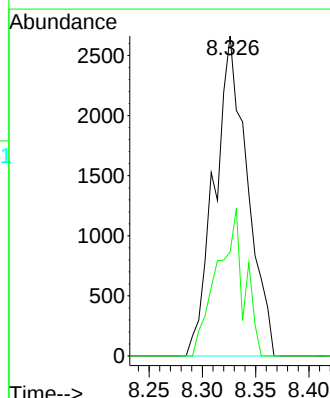
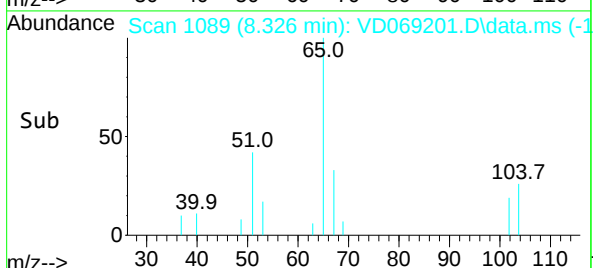
Tgt Ion: 56 Resp: 141  
Ion Ratio Lower Upper  
56 100  
69 0.0 30.6 46.0#  
84 0.0 88.0 132.0#

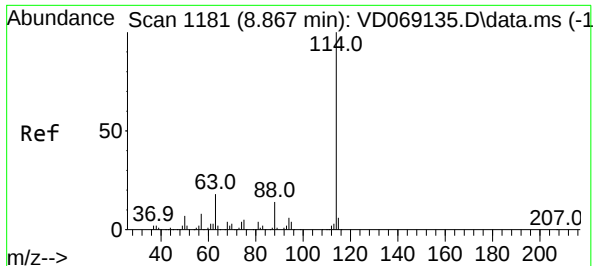


#33  
1,2-Dichloroethane-d4  
Concen: 132.64 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.006 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24



Tgt Ion: 65 Resp: 5698  
Ion Ratio Lower Upper  
65 100  
67 38.0 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.855 min Scan# 1179

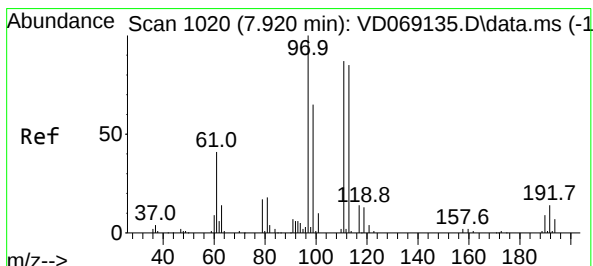
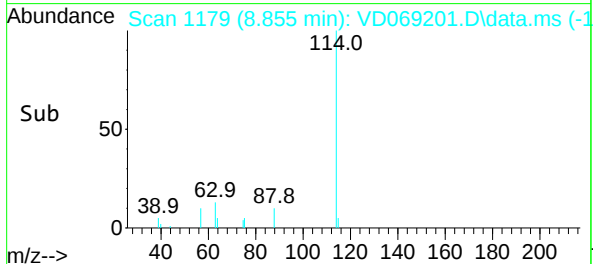
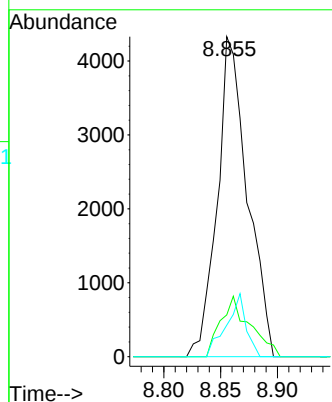
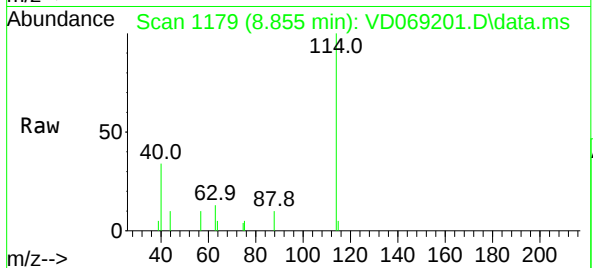
Delta R.T. -0.012 min

Lab File: VD069201.D

Acq: 19 May 2021 17:24

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 114   | Resp: | 7980 |
| Ion Ratio | Lower | Upper |      |
| 114       | 100   |       |      |
| 63        | 13.0  | 0.0   | 36.4 |
| 88        | 9.8   | 0.0   | 28.2 |

Instrument :  
MSVOA\_D  
ClientSampleId :



#35

Dibromofluoromethane

Concen: 48.70 ug/l

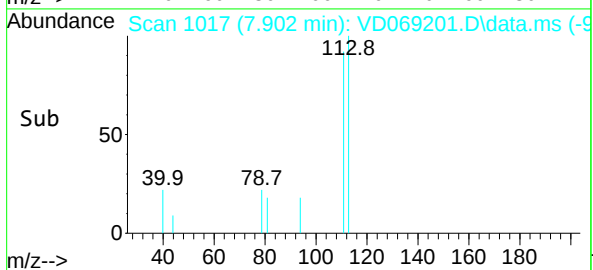
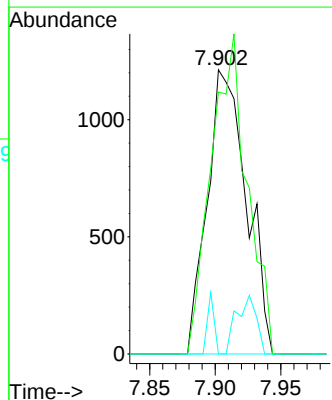
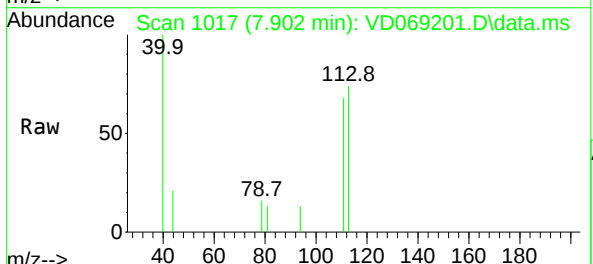
RT: 7.902 min Scan# 1017

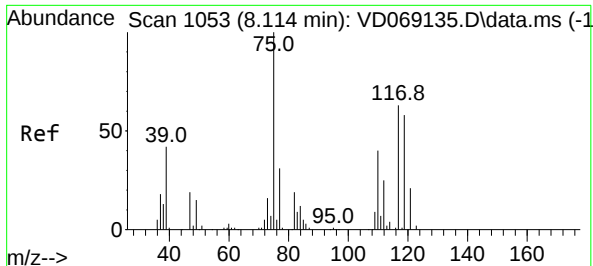
Delta R.T. -0.017 min

Lab File: VD069201.D

Acq: 19 May 2021 17:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 2529   |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 0.0   | 80.6  | 120.8# |
| 192       | 3.6   | 14.8  | 22.2#  |





#36

1,1-Dichloropropene

Concen: 3.49 ug/l

RT: 7.991 min Scan# 1032

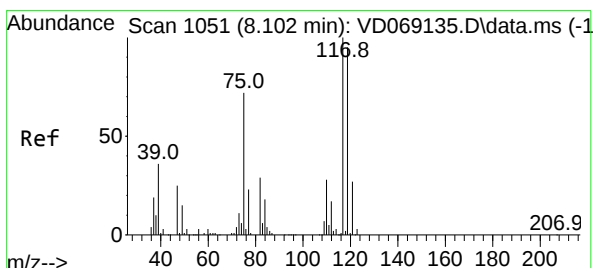
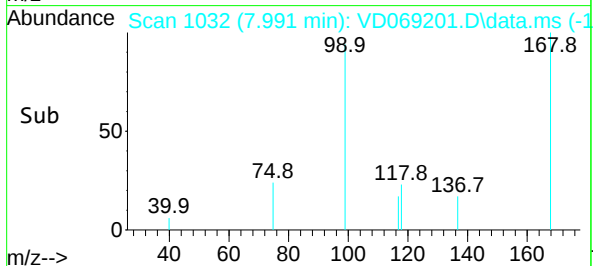
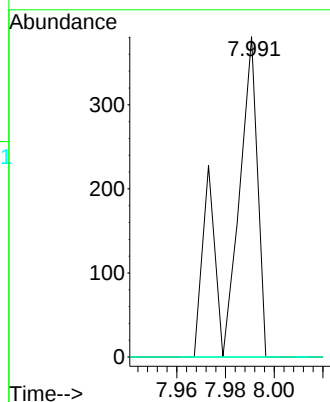
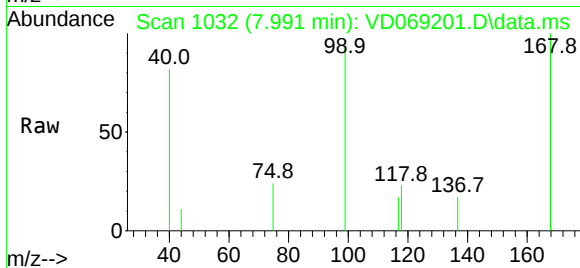
Delta R.T. -0.123 min

Lab File: VD069201.D

Acq: 19 May 2021 17:24

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 271   |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 110 0.0     | 18.8 56.4#  |
| 77 0.0      | 25.2 37.8#  |

Instrument :  
MSVOA\_D  
ClientSampled :



#38

Carbon Tetrachloride

Concen: 3.12 ug/l

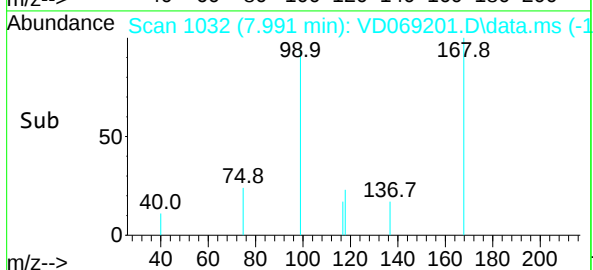
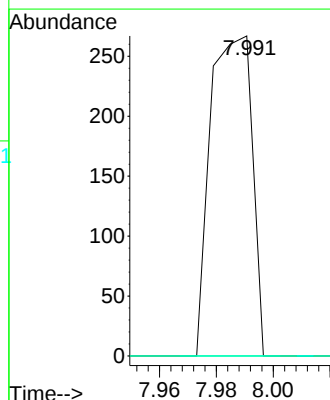
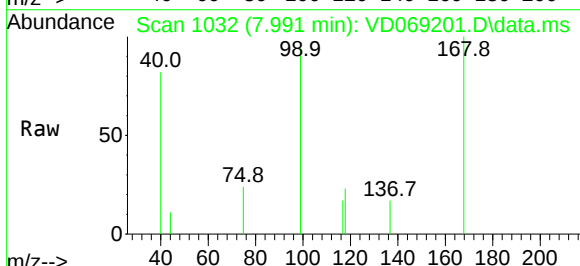
RT: 7.991 min Scan# 1032

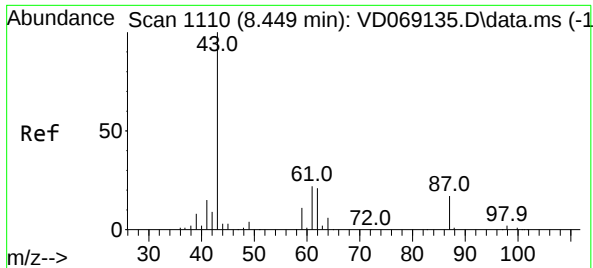
Delta R.T. -0.112 min

Lab File: VD069201.D

Acq: 19 May 2021 17:24

|              |             |
|--------------|-------------|
| Tgt Ion: 117 | Resp: 271   |
| Ion Ratio    | Lower Upper |
| 117 100      |             |
| 119 0.0      | 76.2 114.2# |
| 121 0.0      | 21.9 32.9#  |



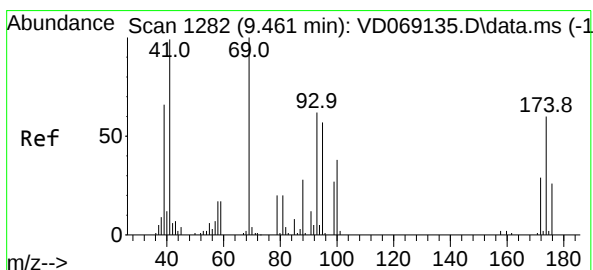
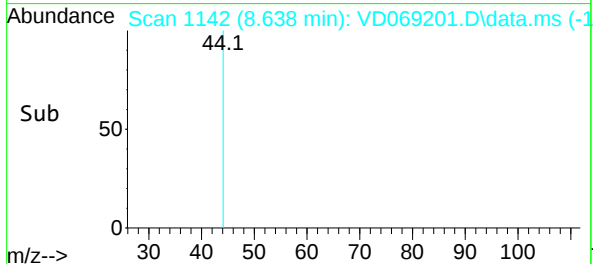
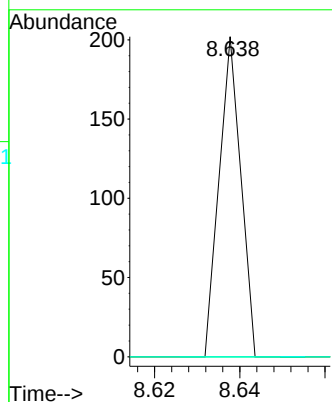
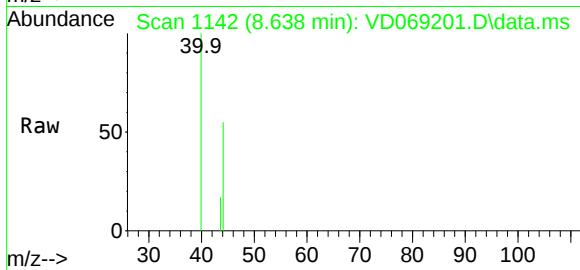


#43

Isopropyl Acetate  
Concen: 1.57 ug/l  
RT: 8.638 min Scan# 1142  
Delta R.T. 0.188 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

Instrument :  
MSVOA\_D  
ClientSampled :

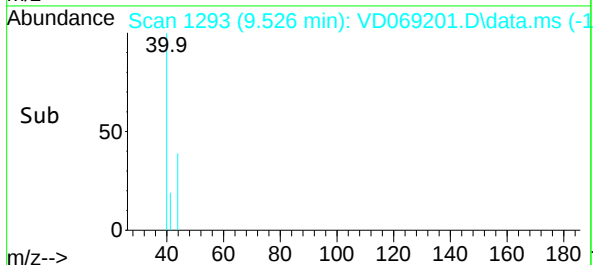
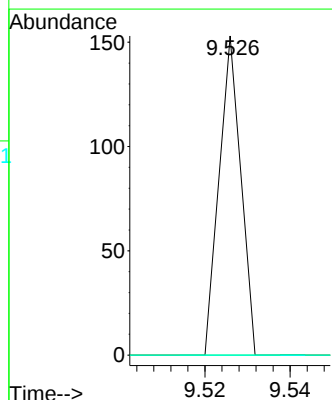
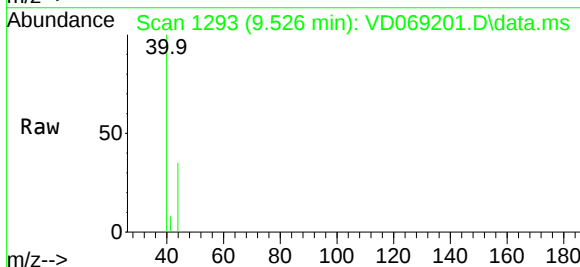
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 71    |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 0.0      | 28.6 42.8#  |
| 87 0.0      | 13.8 20.8#  |

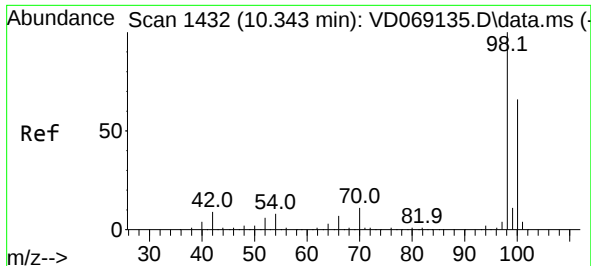


#48

Methyl methacrylate  
Concen: 2.58 ug/l  
RT: 9.526 min Scan# 1293  
Delta R.T. 0.065 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 54    |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 0.0      | 88.0 132.0# |
| 39 0.0      | 51.4 77.0#  |

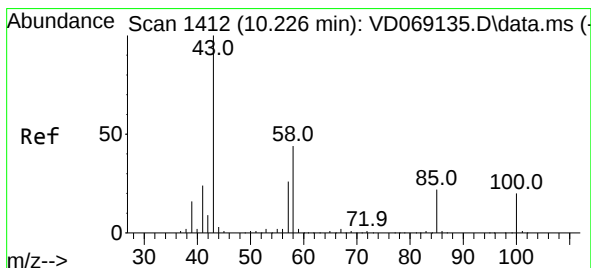
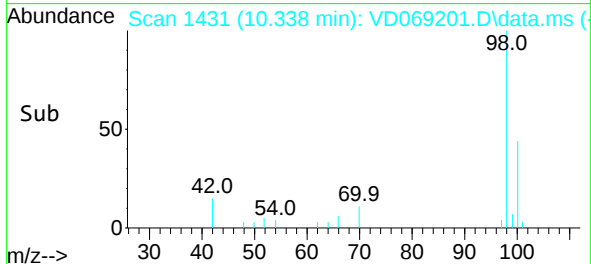
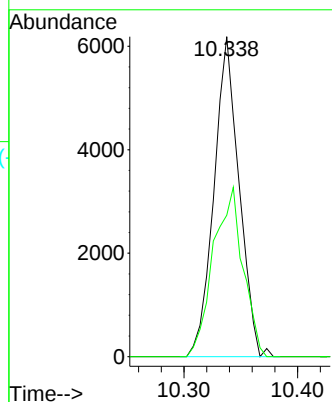
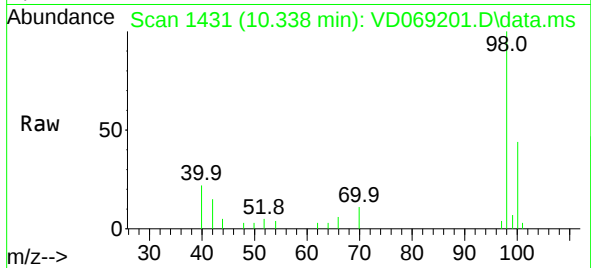




#50  
Toluene-d8  
Concen: 49.67 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

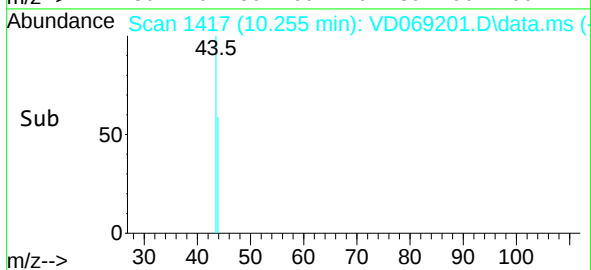
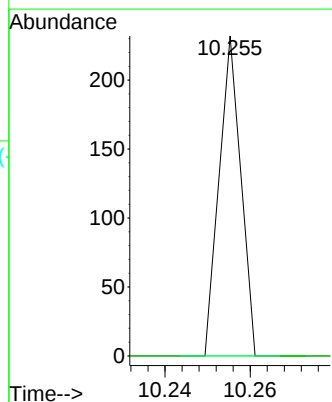
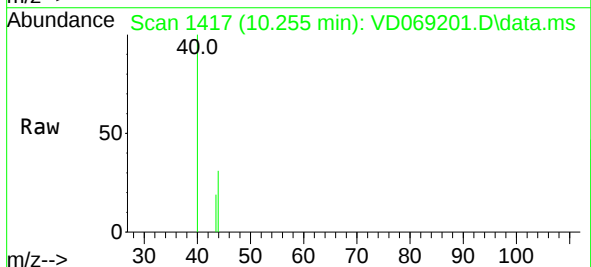
Instrument :  
MSVOA\_D  
ClientSampled :

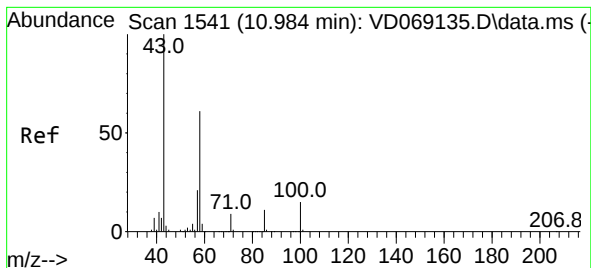
Tgt Ion: 98 Resp: 9478  
Ion Ratio Lower Upper  
98 100  
100 62.6 51.8 77.8



#51  
4-Methyl-2-Pentanone  
Concen: 3.52 ug/l  
RT: 10.255 min Scan# 1417  
Delta R.T. 0.030 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

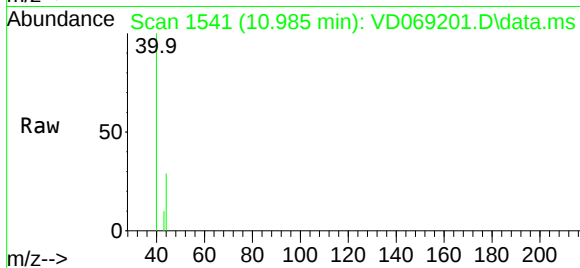
Tgt Ion: 43 Resp: 82  
Ion Ratio Lower Upper  
43 100  
58 0.0 35.0 52.4#



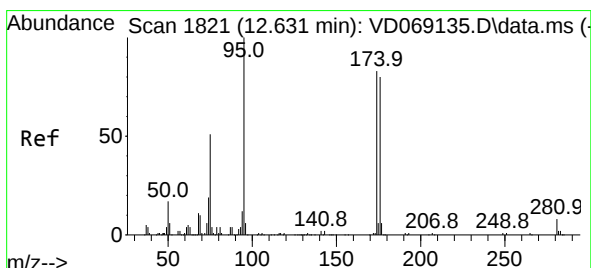
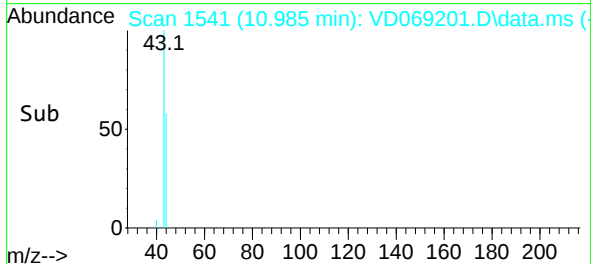
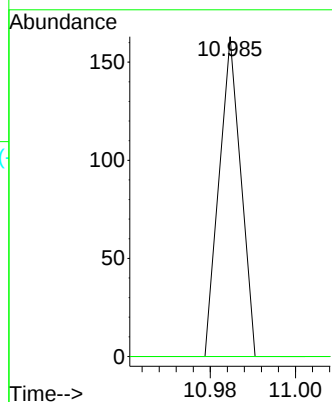


#59  
2-Hexanone  
Concen: 3.73 ug/l  
RT: 10.985 min Scan# 1541  
Delta R.T. 0.000 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

Instrument :  
MSVOA\_D  
ClientSampleId :

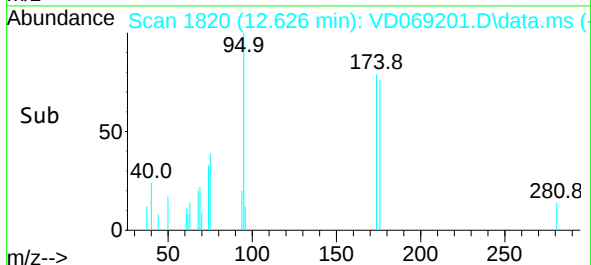
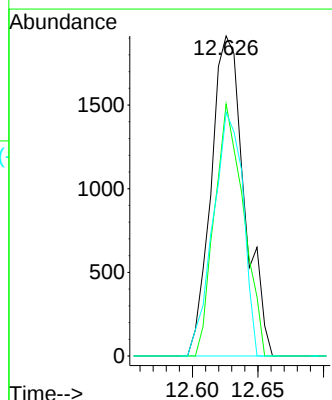
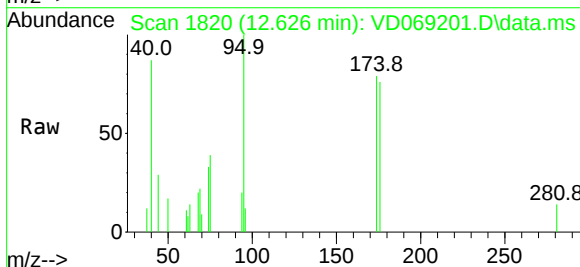


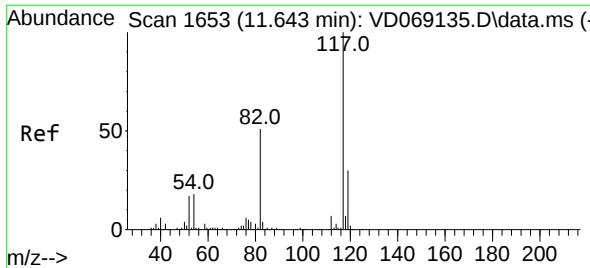
Tgt Ion: 43 Resp: 58  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.1 93.5#



#62  
4-Bromofluorobenzene  
Concen: 55.00 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.006 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

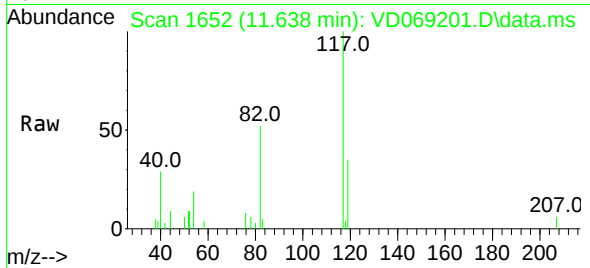
Tgt Ion: 95 Resp: 3377  
Ion Ratio Lower Upper  
95 100  
174 68.8 0.0 171.8  
176 68.4 0.0 165.4



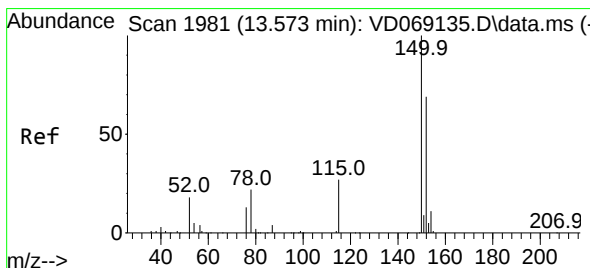
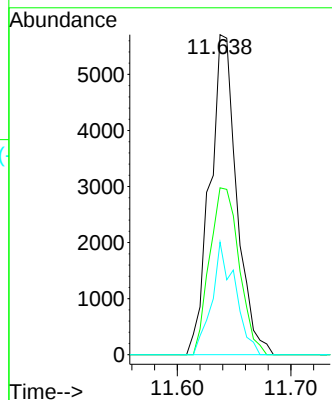
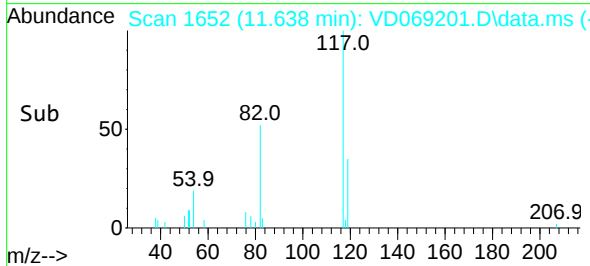


#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.006 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

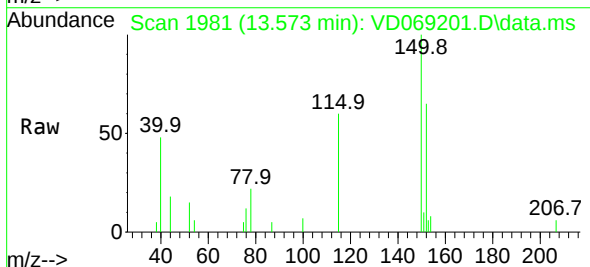
Instrument :  
MSVOA\_D  
ClientSampleId :



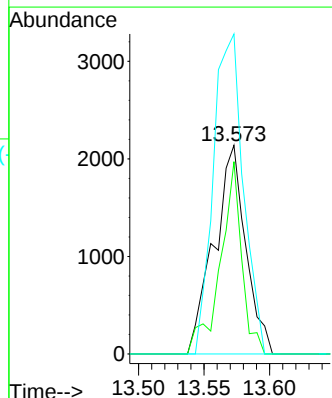
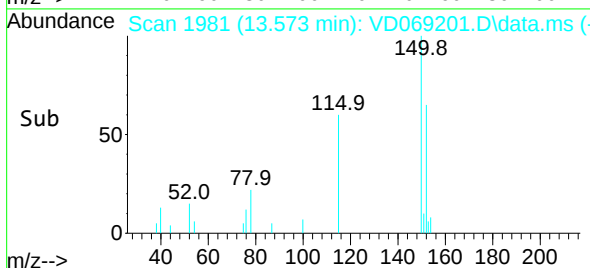
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 9333  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 52.1  | 40.5  | 60.7  |
| 119      | 35.2  | 24.2  | 36.4  |

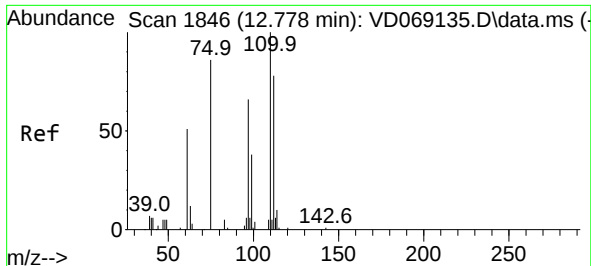


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.573 min Scan# 1981  
Delta R.T. 0.000 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 3593  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 115      | 62.0  | 29.9  | 89.8  |
| 150      | 145.6 | 0.0   | 350.2 |

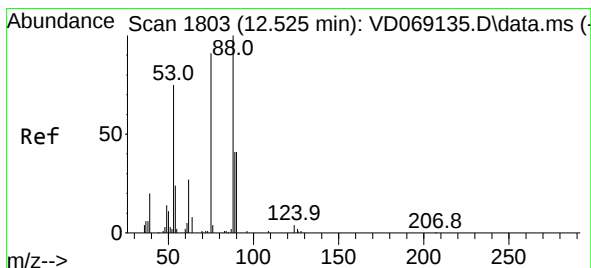
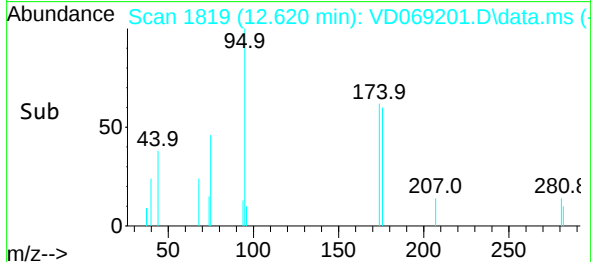
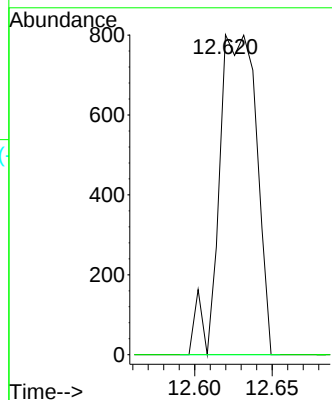
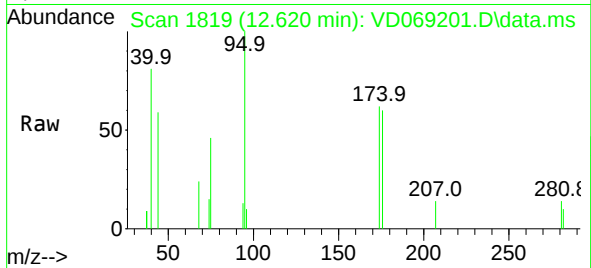




#76  
1,2,3-Trichloropropane  
Concen: 49.80 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.159 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 1345  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 100.59 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.094 min  
Lab File: VD069201.D  
Acq: 19 May 2021 17:24

Tgt Ion: 75 Resp: 1345  
Ion Ratio Lower Upper  
75 100  
53 0.0 70.0 105.0#  
89 0.0 40.2 60.2#

