

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080921\  
 Data File : VD070001.D  
 Acq On : 09 Aug 2021 17:26  
 Operator : VA/SY  
 Sample : M3308-04RE  
 Misc : 1.08G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 10 07:04:39 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 04:51:13 2021  
 Response via : Initial Calibration

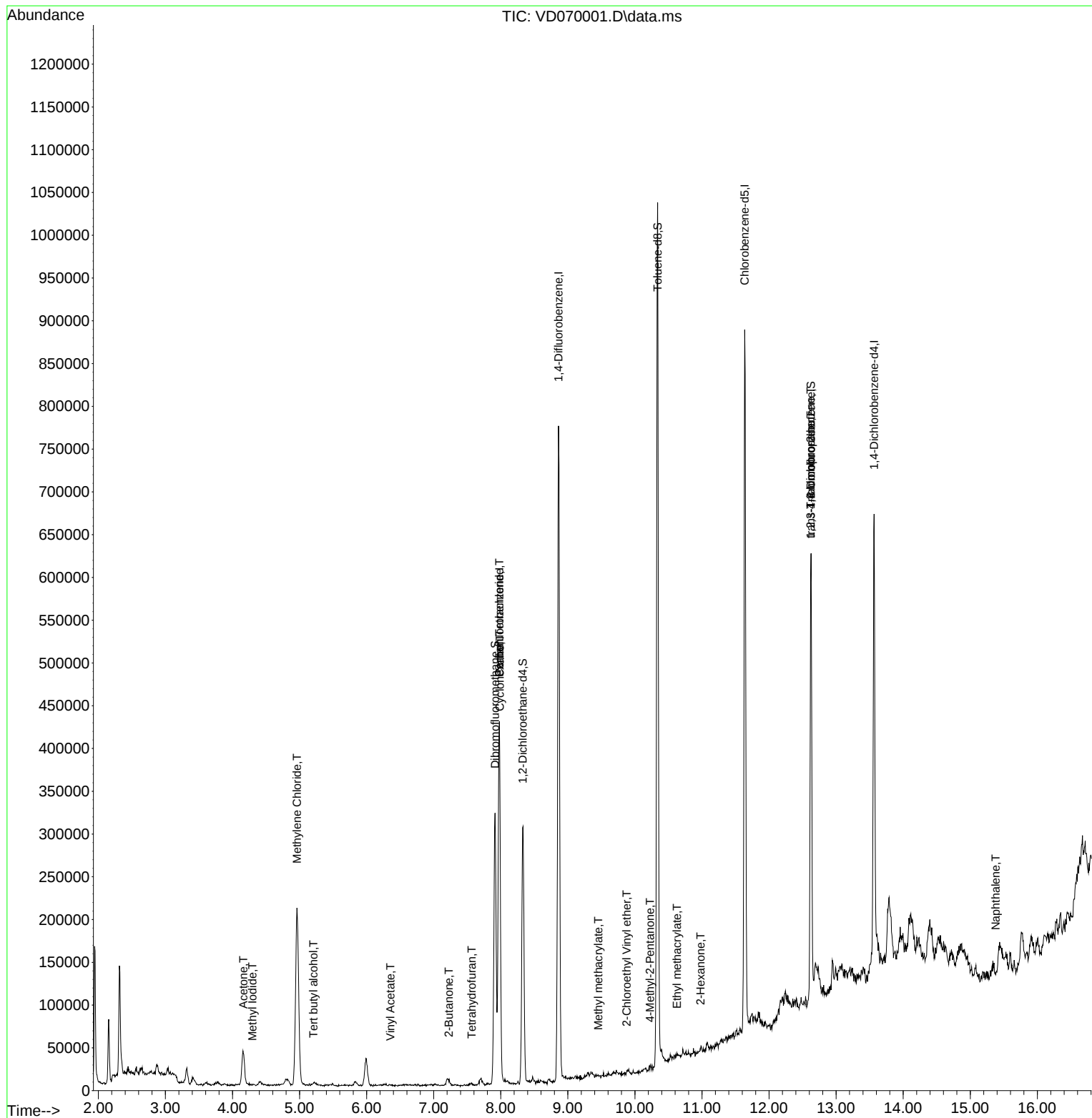
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 304568              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 642121              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 483323              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 138463              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 239556              | 68.390    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 136.780% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 232986              | 57.557    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 115.120% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 693811              | 44.451    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 88.900%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 193455              | 37.086    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 74.180%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 5) Bromomethane               | 2.785          | 94   | 3887                | Below Cal | #      | 65       |
| 10) Methyl Iodide             | 4.297          | 142  | 829                 | 3.666     | ug/l # | 54       |
| 11) Tert butyl alcohol        | 5.209          | 59   | 1601                | 8.833     | ug/l # | 79       |
| 16) Acetone                   | 4.162          | 43   | 70183               | 110.914   | ug/l   | 91       |
| 20) Methylene Chloride        | 4.961          | 84   | 168471              | 34.844    | ug/l   | 99       |
| 23) Vinyl Acetate             | 6.356          | 43   | 383                 | 20.407    | ug/l # | 71       |
| 25) 2-Butanone                | 7.226          | 43   | 8223                | 9.583     | ug/l # | 87       |
| 29) Tetrahydrofuran           | 7.567          | 42   | 665                 | 1.198     | ug/l # | 48       |
| 31) Cyclohexane               | 7.985          | 56   | 8380                | 1.224     | ug/l # | 8        |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 32203               | 5.088     | ug/l # | 16       |
| 48) Methyl methacrylate       | 9.455          | 41   | 429                 | 2.915     | ug/l # | 4        |
| 51) 4-Methyl-2-Pentanone      | 10.226         | 43   | 2532                | 1.075     | ug/l # | 63       |
| 56) Ethyl methacrylate        | 10.626         | 69   | 3233                | 4.554     | ug/l # | 64       |
| 58) 2-Chloroethyl Vinyl ether | 9.879          | 63   | 56                  | 20.896    | ug/l # | 48       |
| 59) 2-Hexanone                | 10.979         | 43   | 2259                | 1.451     | ug/l   | 86       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 94100               | 63.937    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 94100               | 193.968   | ug/l # | 17       |
| 95) Naphthalene               | 15.379         | 128  | 2584                | 5.512     | ug/l # | 85       |
| -----                         |                |      |                     |           |        |          |

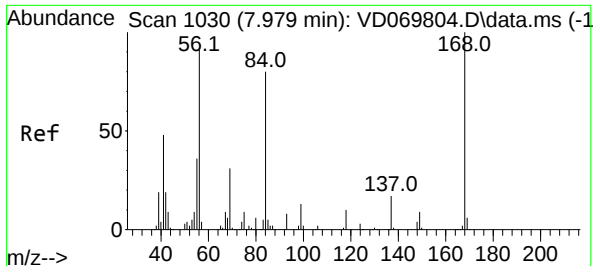
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080921\  
Data File : VD070001.D  
Acq On : 09 Aug 2021 17:26  
Operator : VA/SY  
Sample : M3308-04RE  
Misc : 1.08G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Aug 10 07:04:39 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D072221S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 23 04:51:13 2021  
Response via : Initial Calibration

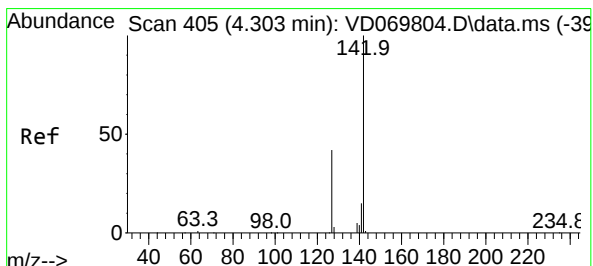
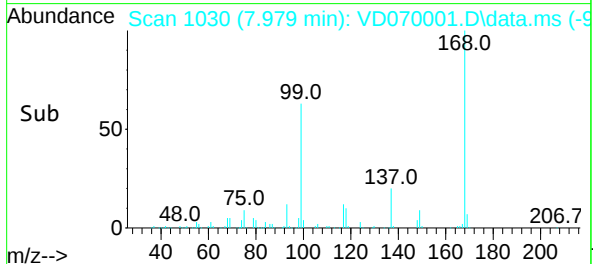
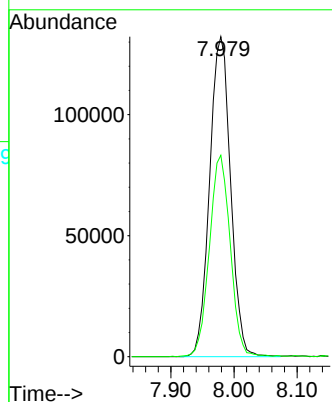
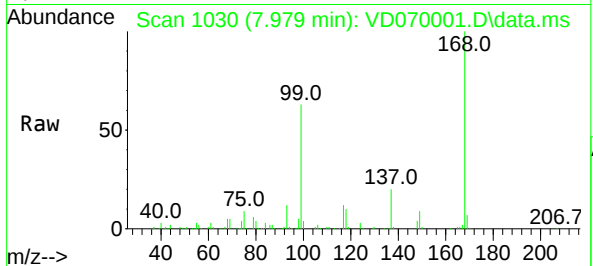




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

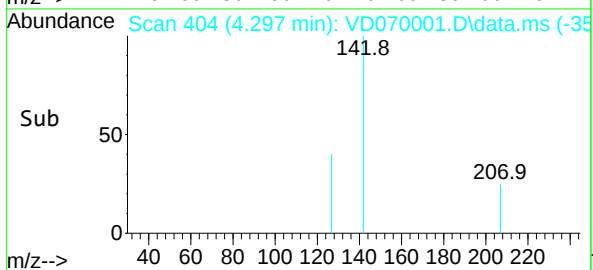
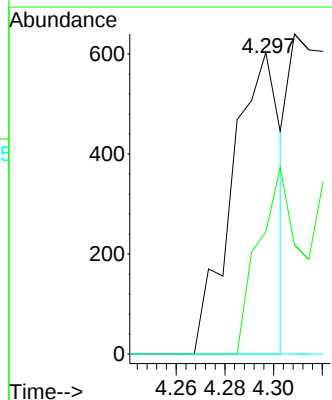
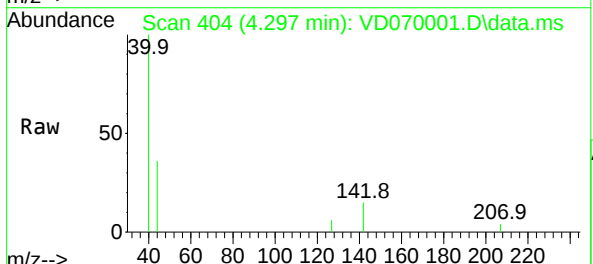
Instrument :  
MSVOA\_D  
ClientSampled :

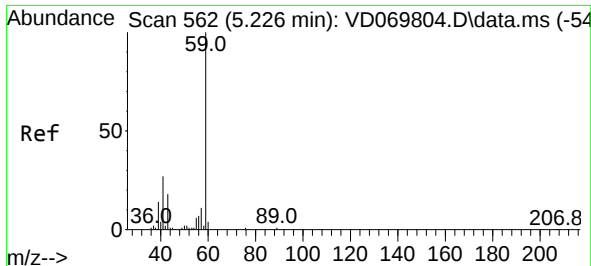
Tgt Ion:168 Resp: 304568  
Ion Ratio Lower Upper  
168 100  
99 62.8 51.1 76.7



#10  
Methyl Iodide  
Concen: 3.666 ug/l  
RT: 4.297 min Scan# 404  
Delta R.T. -0.006 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Tgt Ion:142 Resp: 829  
Ion Ratio Lower Upper  
142 100  
127 76.4 35.7 53.5#  
141 0.0 12.0 18.0#

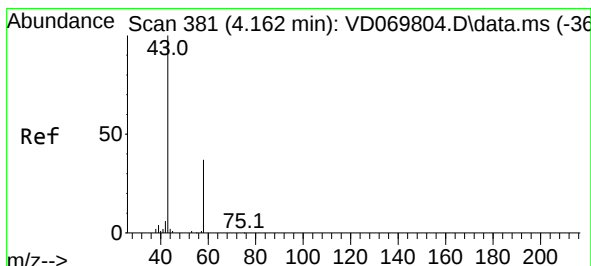
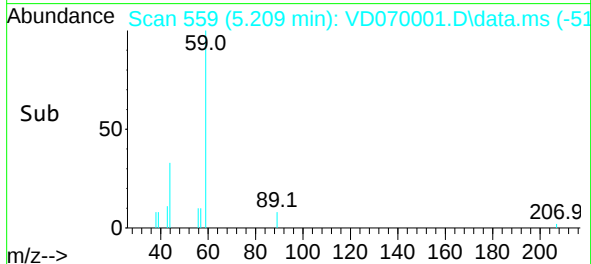
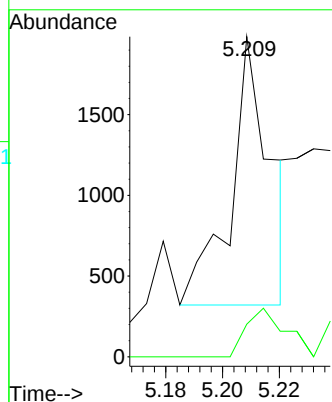
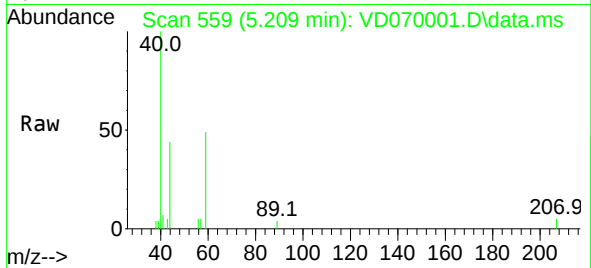




#11  
Tert butyl alcohol  
Concen: 8.833 ug/l  
RT: 5.209 min Scan# 559  
Delta R.T. -0.018 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

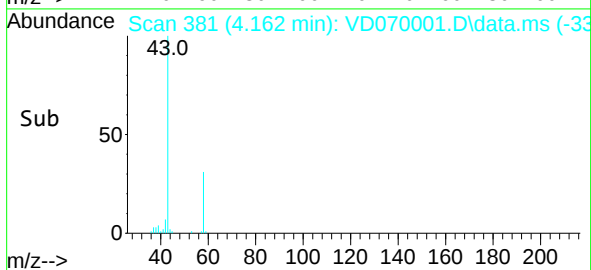
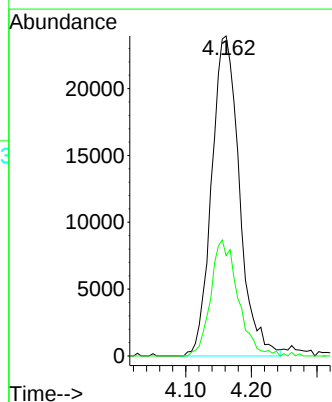
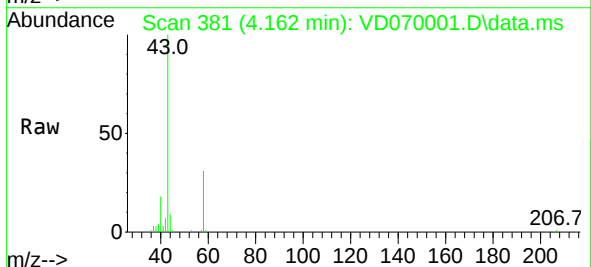
Instrument :  
MSVOA\_D  
ClientSampled :

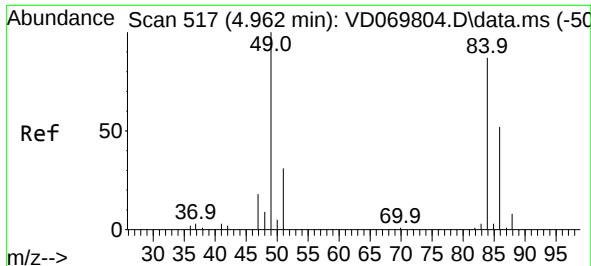
Tgt Ion: 59 Resp: 1601  
Ion Ratio Lower Upper  
59 100  
57 18.1 8.1 12.1#



#16  
Acetone  
Concen: 110.914 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

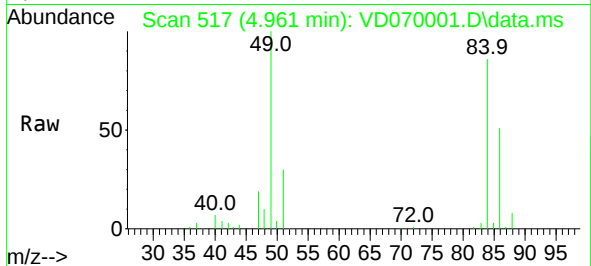
Tgt Ion: 43 Resp: 70183  
Ion Ratio Lower Upper  
43 100  
58 31.3 29.4 44.0



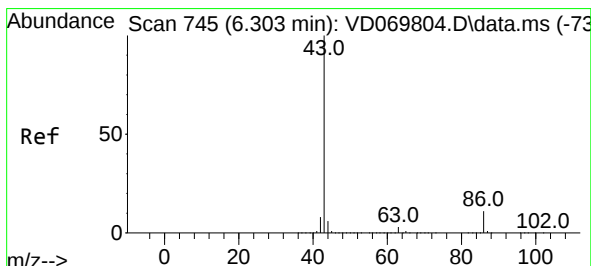
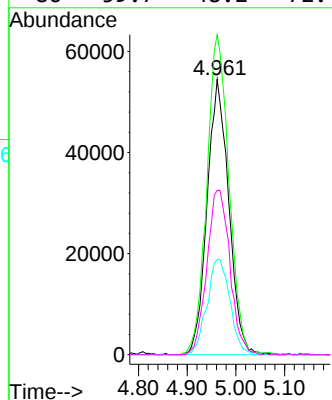
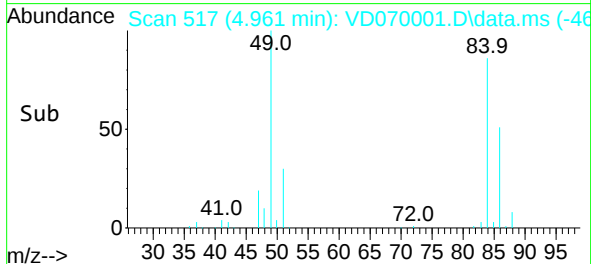


#20  
Methylene Chloride  
Concen: 34.844 ug/l  
RT: 4.961 min Scan# 517  
Delta R.T. -0.001 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

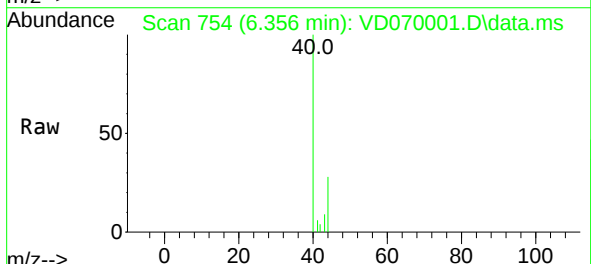
Instrument :  
MSVOA\_D  
ClientSampled :



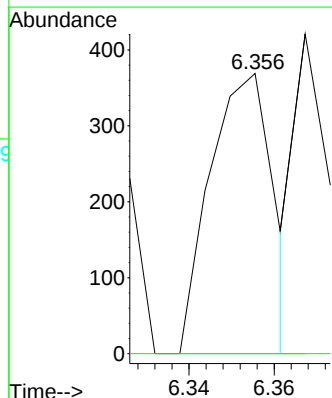
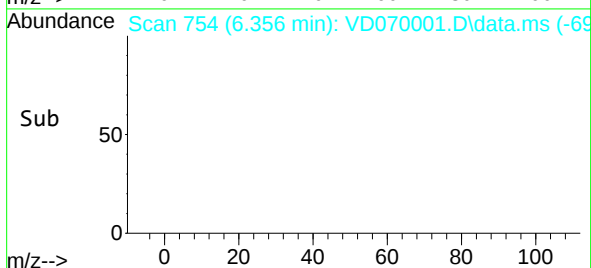
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 168471 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 116.2 | 92.4  | 138.6  |
| 51       | 34.5  | 28.5  | 42.7   |
| 86       | 59.7  | 48.2  | 72.4   |

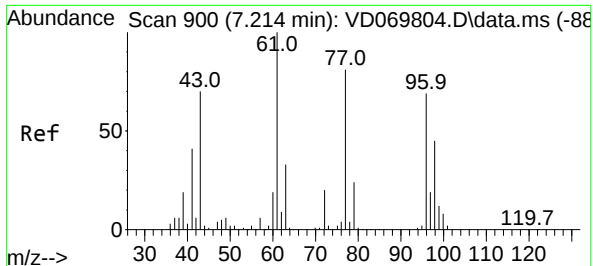


#23  
Vinyl Acetate  
Concen: 20.407 ug/l  
RT: 6.356 min Scan# 754  
Delta R.T. 0.053 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 383   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 8.6   | 13.0# |

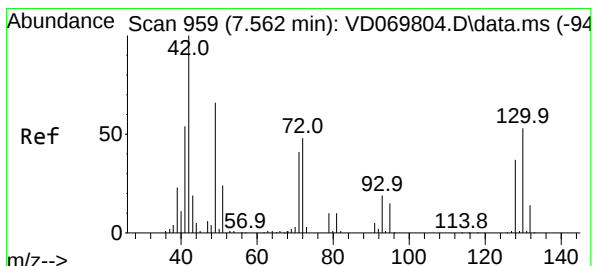
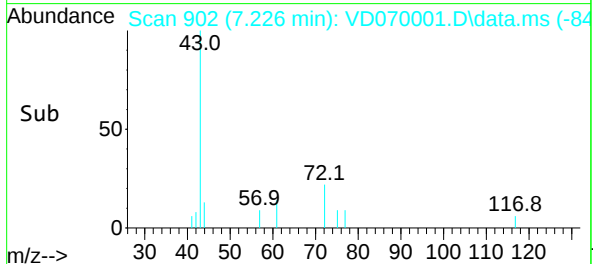
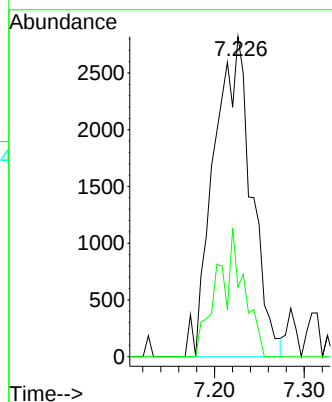
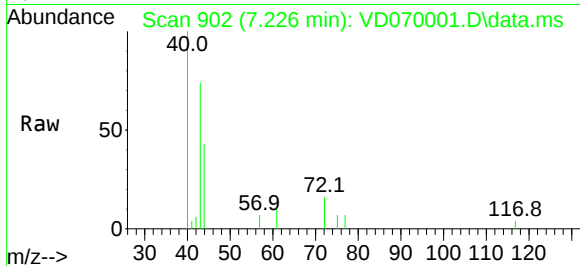




#25  
2-Butanone  
Concen: 9.583 ug/l  
RT: 7.226 min Scan# 902  
Delta R.T. 0.012 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

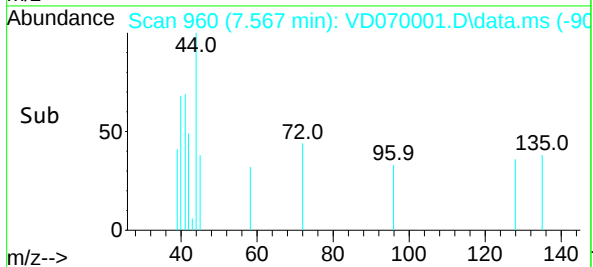
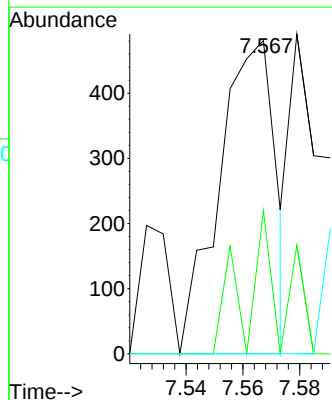
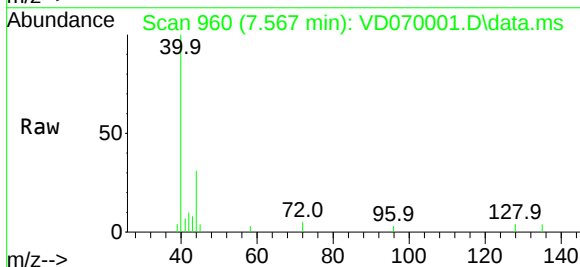
Instrument :  
MSVOA\_D  
ClientSampled :

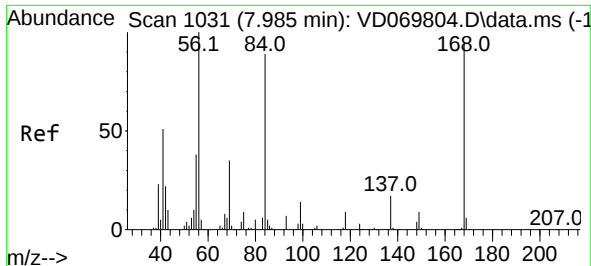
Tgt Ion: 43 Resp: 8223  
Ion Ratio Lower Upper  
43 100  
72 21.8 22.8 34.2#



#29  
Tetrahydrofuran  
Concen: 1.198 ug/l  
RT: 7.567 min Scan# 960  
Delta R.T. 0.006 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

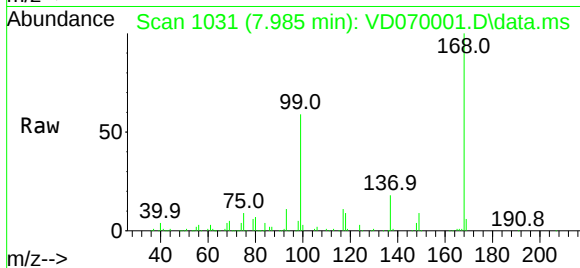
Tgt Ion: 42 Resp: 665  
Ion Ratio Lower Upper  
42 100  
72 20.6 36.5 54.7#  
71 0.0 33.5 50.3#



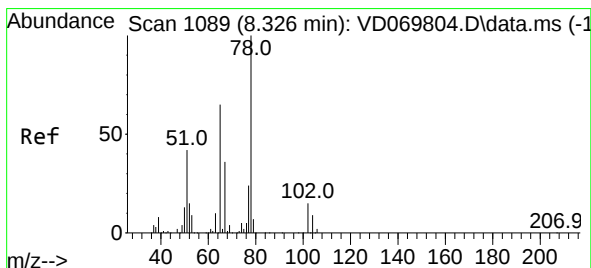
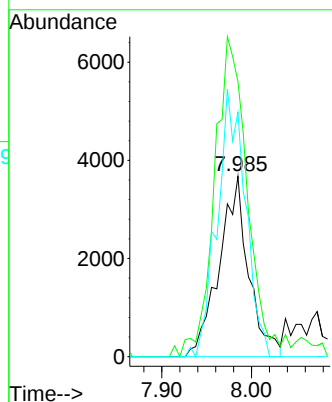
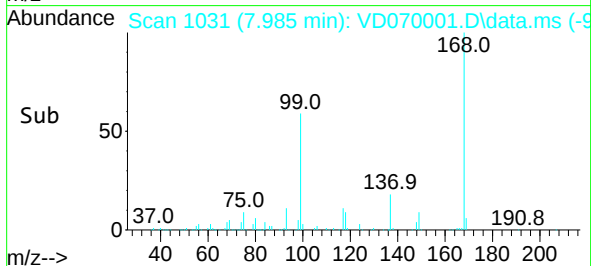


#31  
Cyclohexane  
Concen: 1.224 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

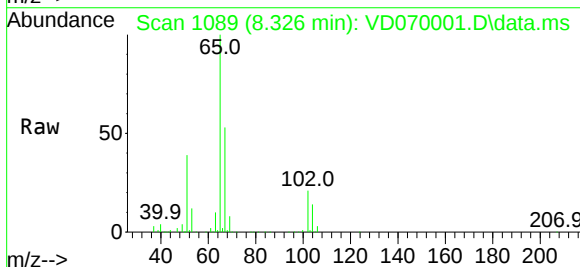
Instrument :  
MSVOA\_D  
ClientSampled :



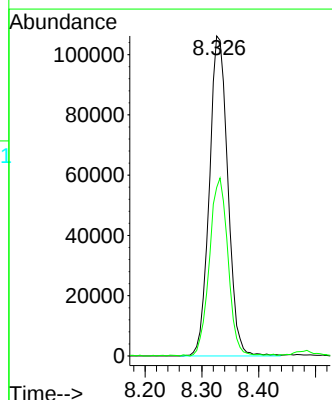
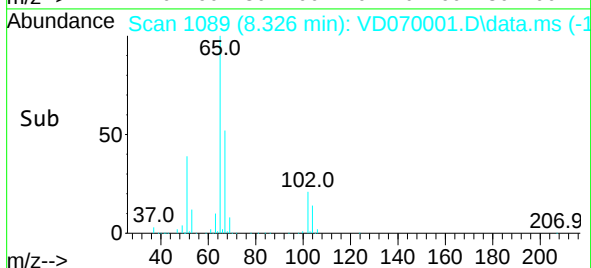
Tgt Ion: 56 Resp: 8380  
Ion Ratio Lower Upper  
56 100  
69 152.5 27.9 41.9#  
84 135.6 71.4 107.2#

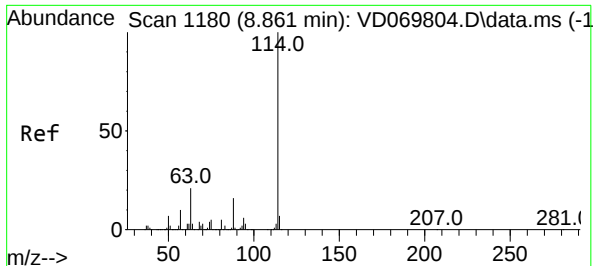


#33  
1,2-Dichloroethane-d4  
Concen: 68.390 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26



Tgt Ion: 65 Resp: 239556  
Ion Ratio Lower Upper  
65 100  
67 55.7 0.0 111.2

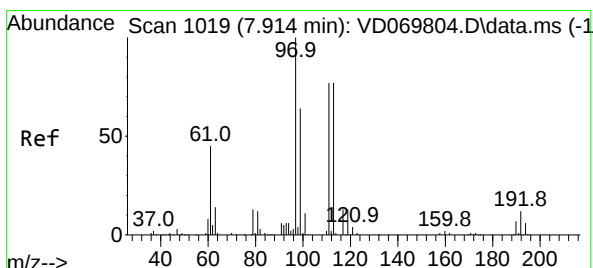
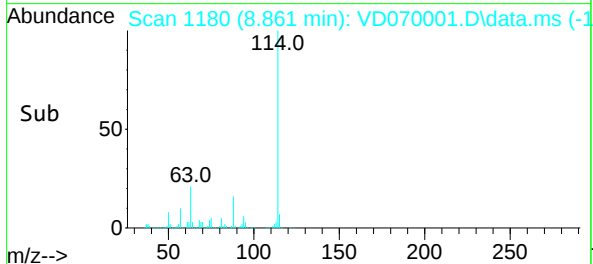
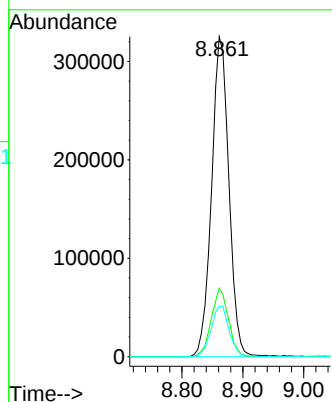
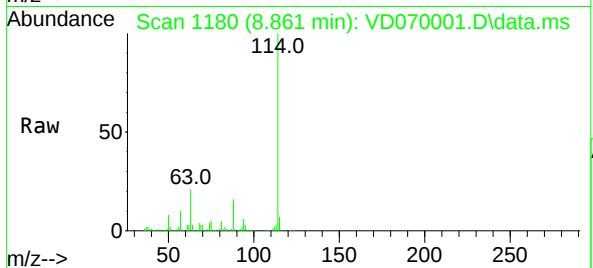




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

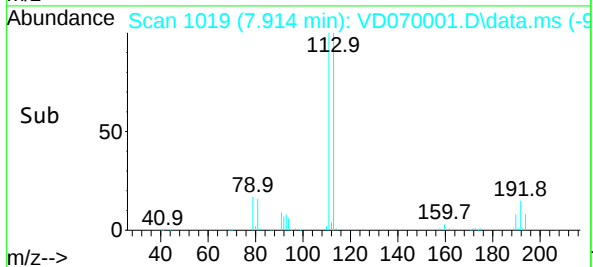
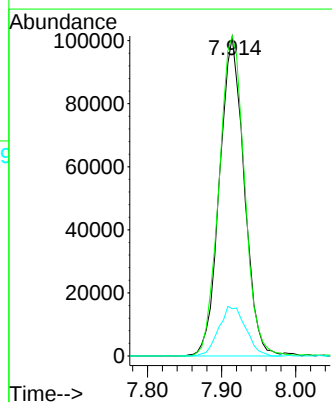
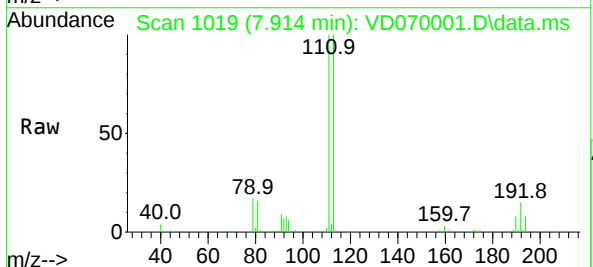
Instrument :  
MSVOA\_D  
ClientSampleId :

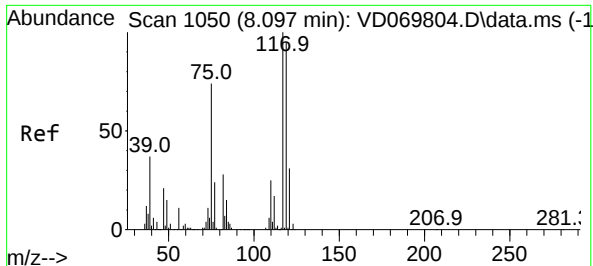
Tgt Ion:114 Resp: 642121  
Ion Ratio Lower Upper  
114 100  
63 21.4 0.0 41.6  
88 15.7 0.0 31.4



#35  
Dibromofluoromethane  
Concen: 57.557 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

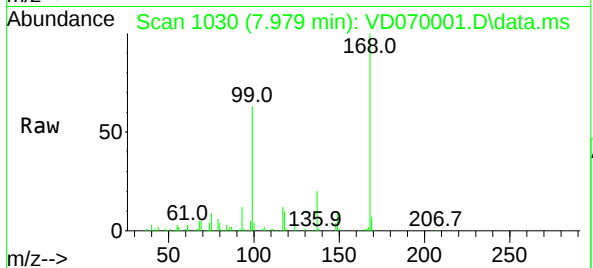
Tgt Ion:113 Resp: 232986  
Ion Ratio Lower Upper  
113 100  
111 104.1 80.5 120.7  
192 16.9 12.6 19.0



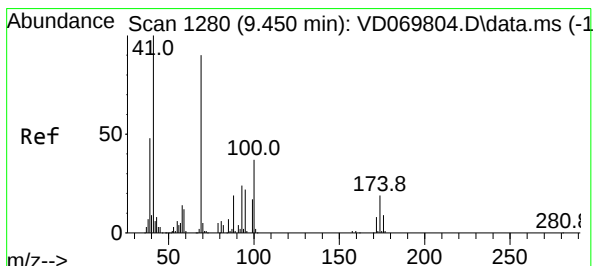
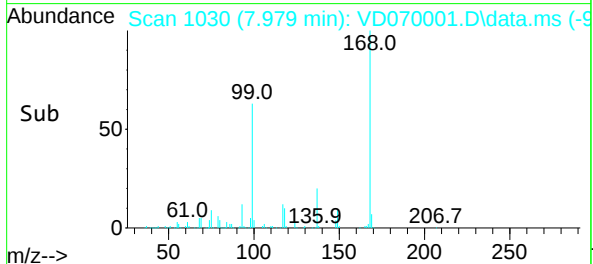
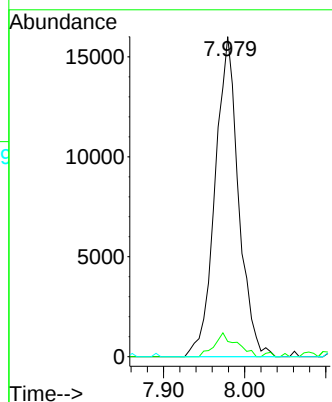


#38  
Carbon Tetrachloride  
Concen: 5.088 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Instrument :  
MSVOA\_D  
ClientSampled :

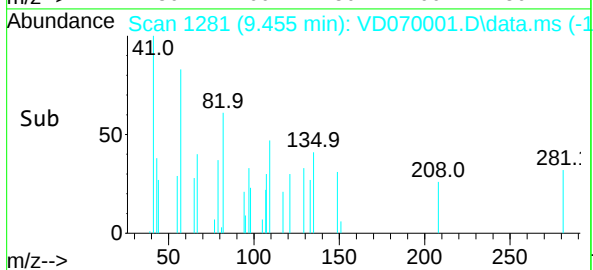
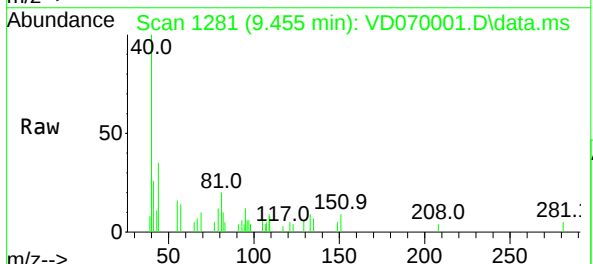
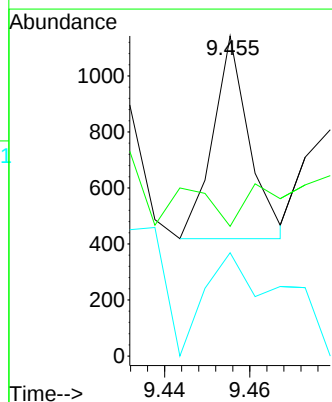


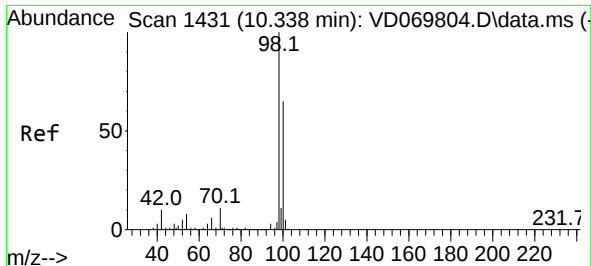
Tgt Ion: 117 Resp: 32203  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.2 114.2#  
121 0.0 24.5 36.7#



#48  
Methyl methacrylate  
Concen: 2.915 ug/l  
RT: 9.455 min Scan# 1281  
Delta R.T. 0.005 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Tgt Ion: 41 Resp: 429  
Ion Ratio Lower Upper  
41 100  
69 0.0 73.4 110.2#  
39 108.2 36.6 55.0#

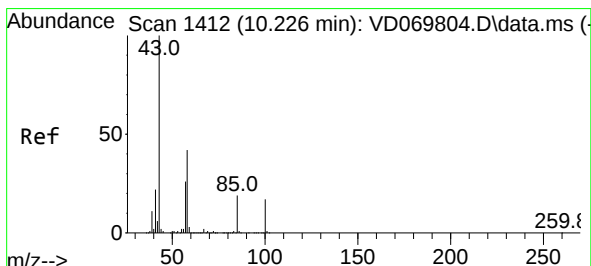
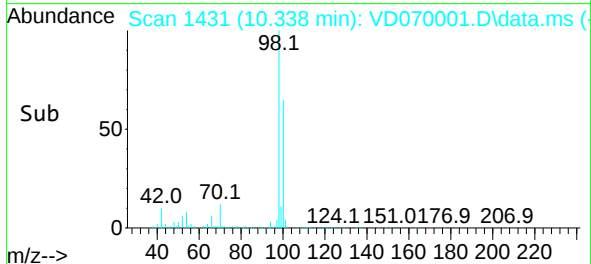
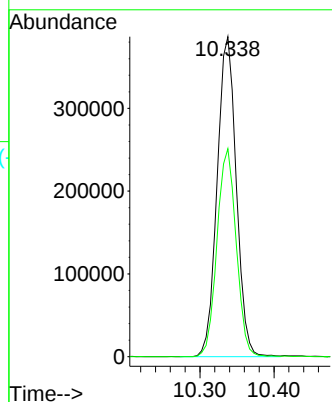
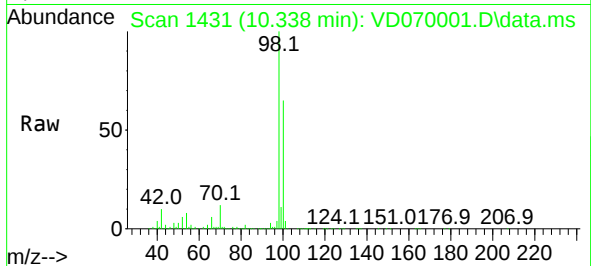




#50  
Toluene-d8  
Concen: 44.451 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

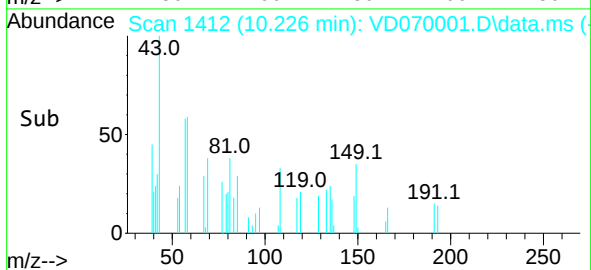
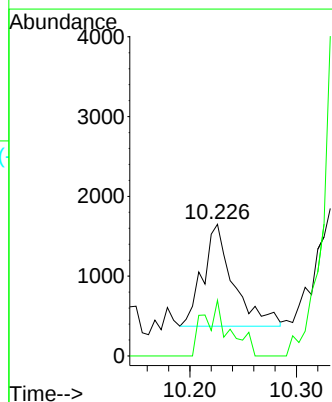
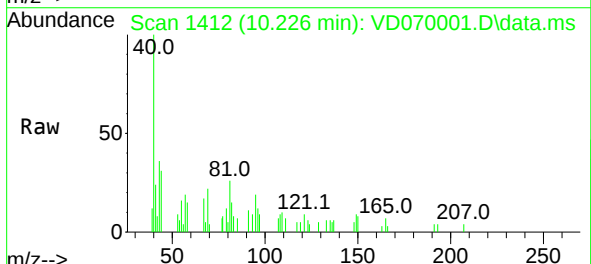
Instrument :  
MSVOA\_D  
ClientSampled :

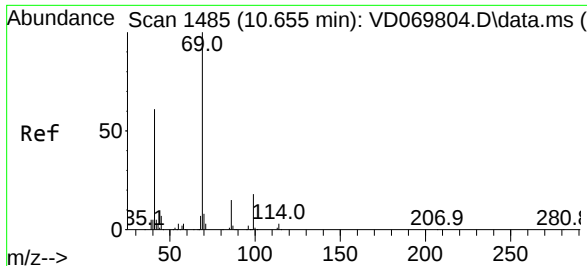
Tgt Ion: 98 Resp: 693811  
Ion Ratio Lower Upper  
98 100  
100 65.0 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 1.075 ug/l  
RT: 10.226 min Scan# 1412  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Tgt Ion: 43 Resp: 2532  
Ion Ratio Lower Upper  
43 100  
58 18.7 33.7 50.5#

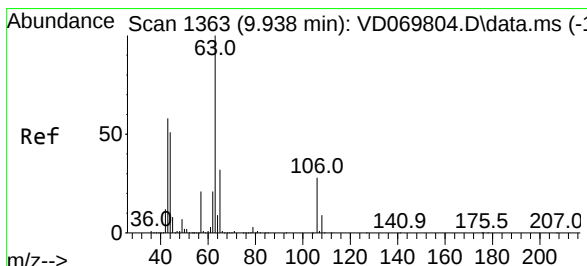
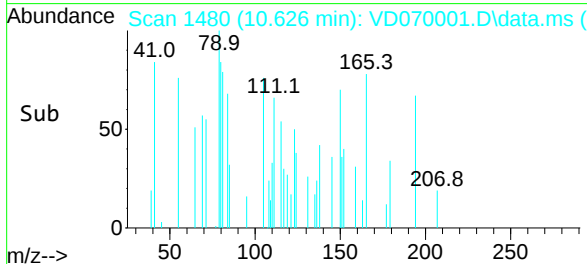
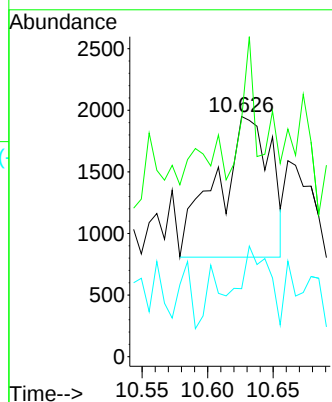
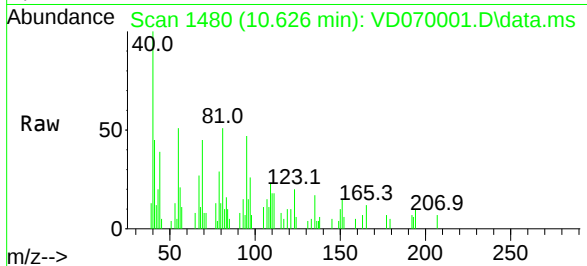




#56  
Ethyl methacrylate  
Concen: 4.554 ug/l  
RT: 10.626 min Scan# 1480  
Delta R.T. -0.029 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

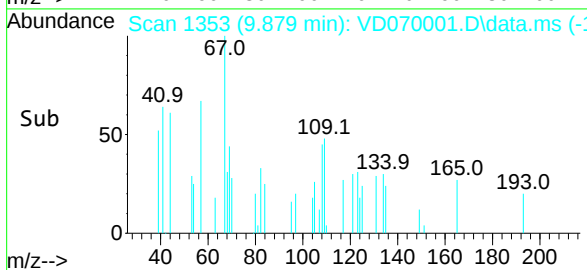
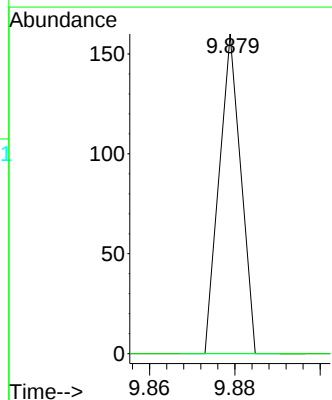
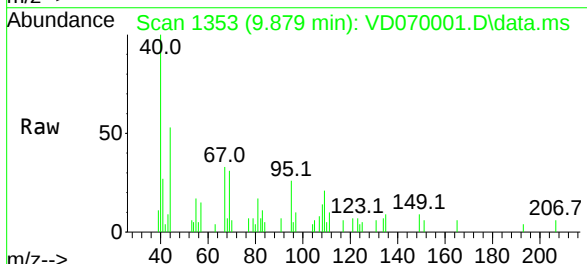
Instrument :  
MSVOA\_D  
ClientSampleId :

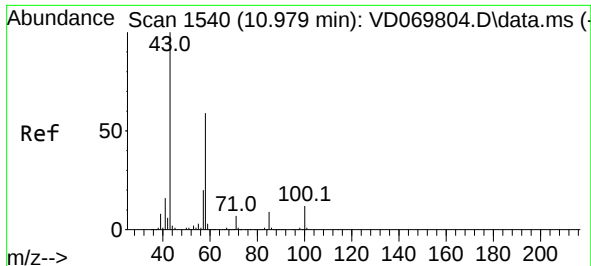
Tgt Ion: 69 Resp: 3233  
Ion Ratio Lower Upper  
69 100  
41 23.9 50.2 75.2#  
39 28.9 22.0 33.0



#58  
2-Chloroethyl Vinyl ether  
Concen: 20.896 ug/l  
RT: 9.879 min Scan# 1353  
Delta R.T. -0.059 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Tgt Ion: 63 Resp: 56  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.8 32.6#

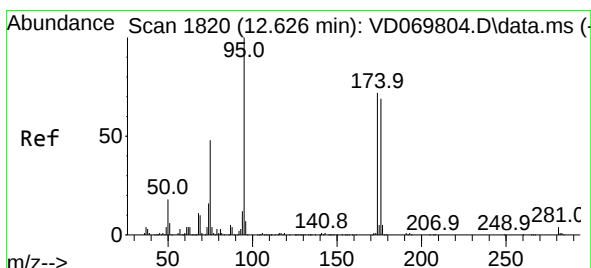
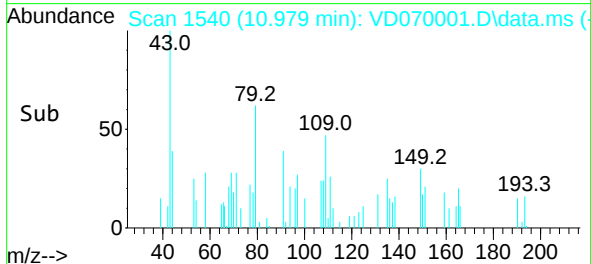
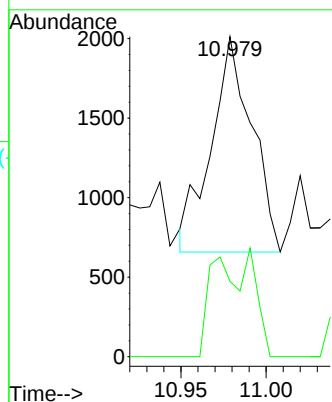
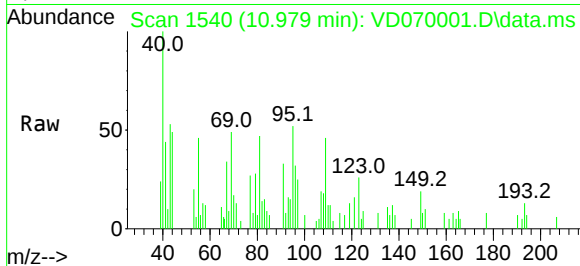




#59  
2-Hexanone  
Concen: 1.451 ug/l  
RT: 10.979 min Scan# 1540  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

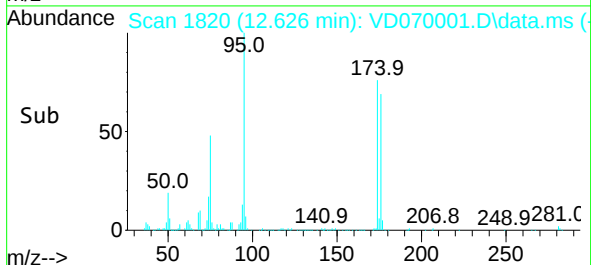
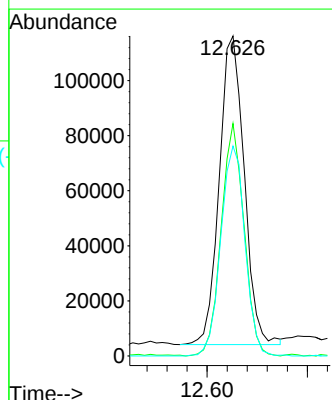
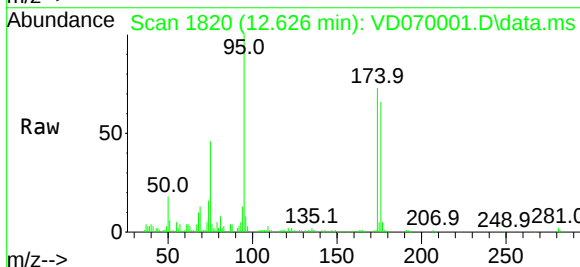
Instrument :  
MSVOA\_D  
ClientSampled :

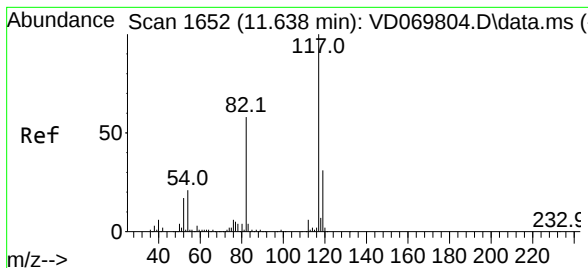
Tgt Ion: 43 Resp: 2259  
Ion Ratio Lower Upper  
43 100  
58 48.2 29.4 88.3



#62  
4-Bromofluorobenzene  
Concen: 37.086 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Tgt Ion: 95 Resp: 193455  
Ion Ratio Lower Upper  
95 100  
174 68.9 0.0 142.6  
176 65.9 0.0 134.2

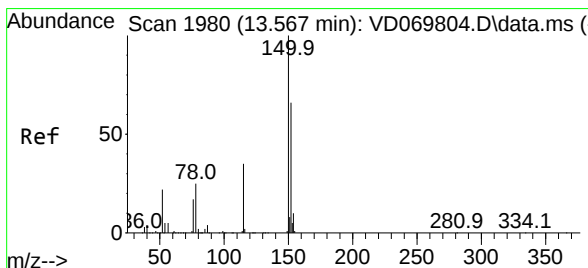
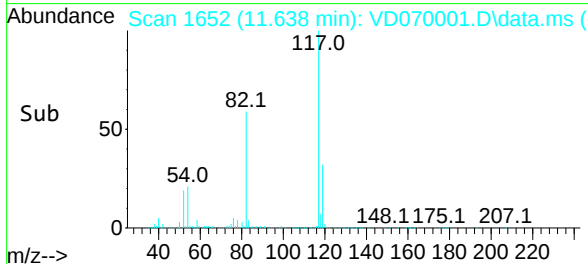
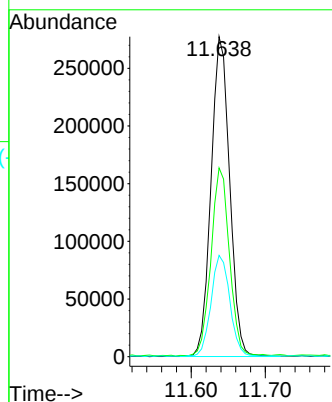
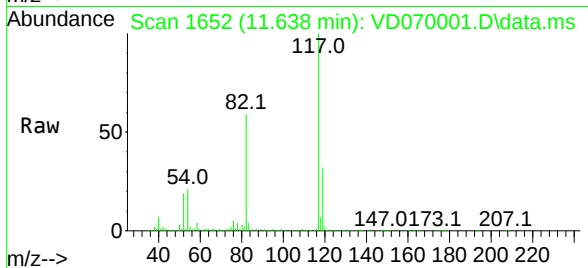




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

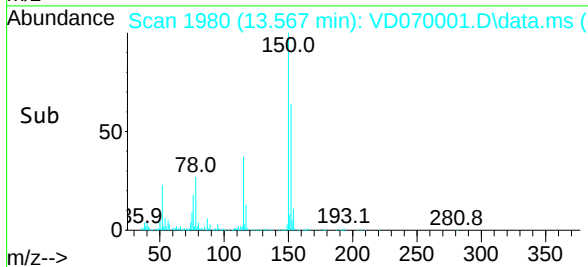
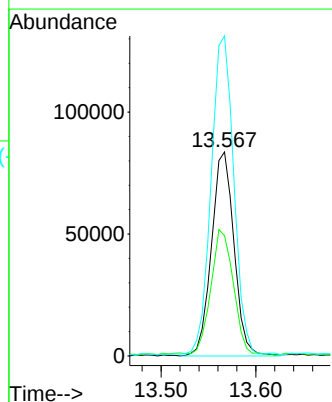
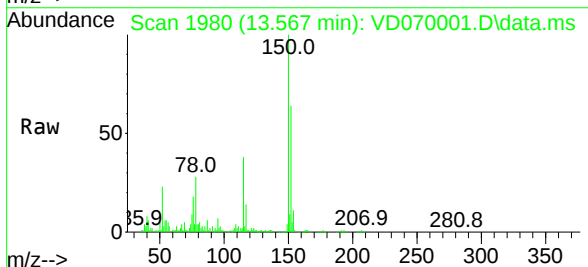
Instrument :  
MSVOA\_D  
ClientSampleId :

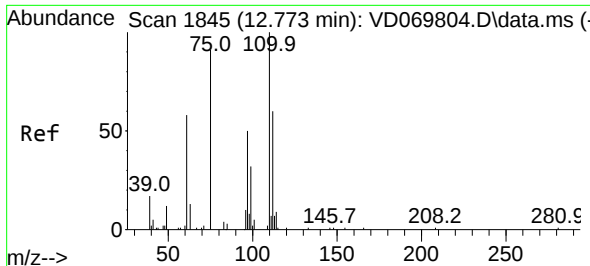
Tgt Ion:117 Resp: 483323  
Ion Ratio Lower Upper  
117 100  
82 58.6 46.3 69.5  
119 31.6 24.7 37.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Tgt Ion:152 Resp: 138463  
Ion Ratio Lower Upper  
152 100  
115 62.4 31.1 93.3  
150 156.3 0.0 343.0

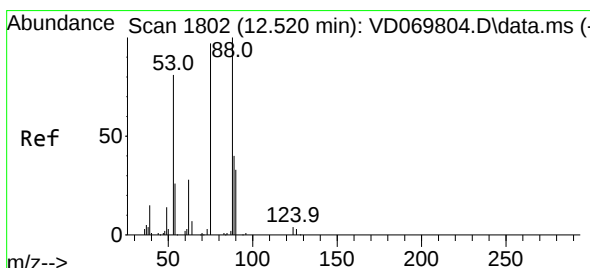
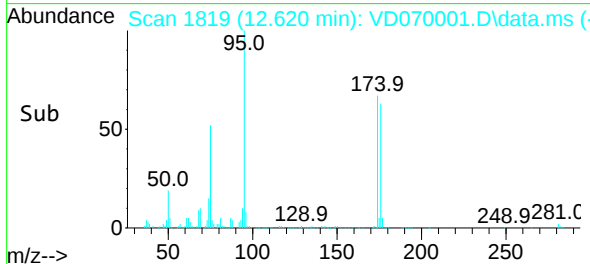
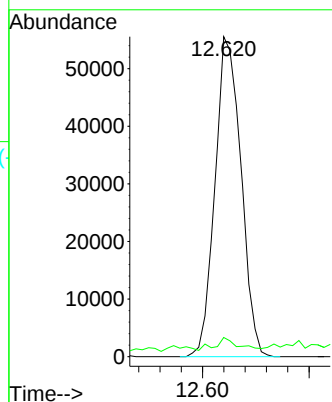
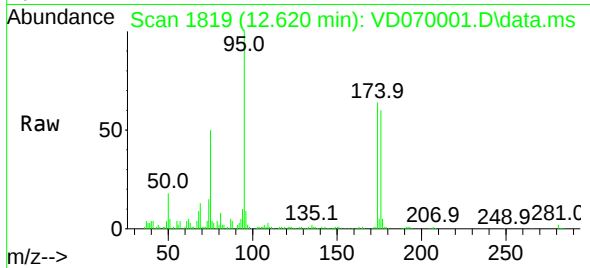




#76  
1,2,3-Trichloropropane  
Concen: 63.937 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

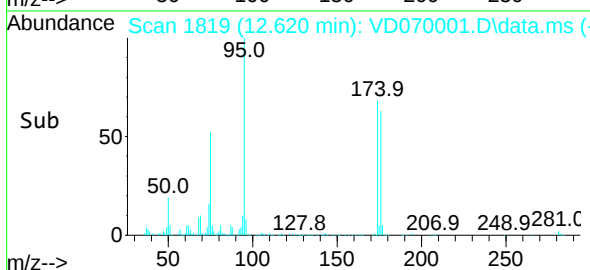
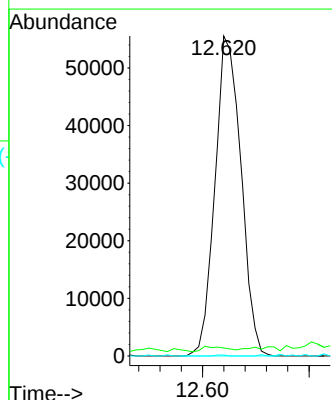
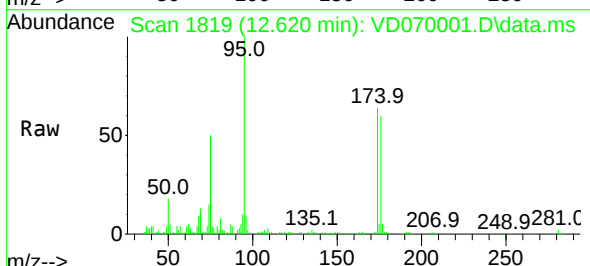
Instrument :  
MSVOA\_D  
ClientSampleId :

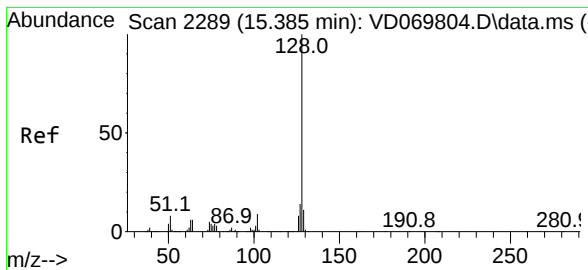
Tgt Ion: 75 Resp: 94100  
Ion Ratio Lower Upper  
75 100  
77 3.4 181.5 544.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 193.968 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Tgt Ion: 75 Resp: 94100  
Ion Ratio Lower Upper  
75 100  
53 1.6 67.2 100.8#  
89 0.1 35.8 53.6#





#95  
Naphthalene  
Concen: 5.512 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.006 min  
Lab File: VD070001.D  
Acq: 09 Aug 2021 17:26

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion:128 Resp: 2584  
Ion Ratio Lower Upper  
128 100  
127 21.1 10.6 16.0#  
129 7.5 8.6 12.8#

