

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121521\  
 Data File : VD071344.D  
 Acq On : 15 Dec 2021 15:56  
 Operator : VA/SY  
 Sample : M5083-01  
 Misc : 6.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

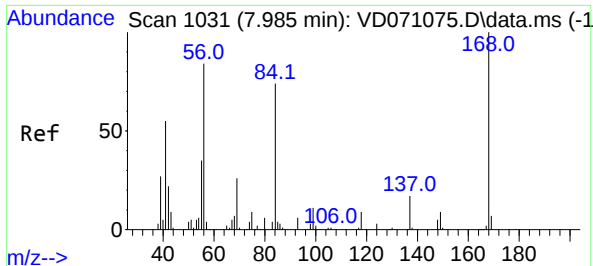
Quant Time: Dec 16 04:29:03 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 320708     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 543134     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 616884     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 292912     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 155174     | 41.235    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 82.480%   |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 165292     | 47.791    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 95.580%   |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 699694     | 53.161    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 106.320%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 312120     | 68.412    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 136.820%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           | Qvalue |          |
| 10) Methyl Iodide             | 4.309          | 142  | 74         | 4.579     | ug/l # | 40       |
| 11) Tert butyl alcohol        | 5.220          | 59   | 331        | Below Cal | #      | 85       |
| 16) Acetone                   | 4.144          | 43   | 435        | 31.178    | ug/l # | 40       |
| 20) Methylene Chloride        | 4.973          | 84   | 14611      | Below Cal |        | 92       |
| 23) Vinyl Acetate             | 6.232          | 43   | 73         | 27.229    | ug/l # | 72       |
| 25) 2-Butanone                | 7.214          | 43   | 79         | 28.420    | ug/l # | 45       |
| 31) Cyclohexane               | 7.979          | 56   | 10973      | 1.714     | ug/l # | 33       |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 28890      | 5.691     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 33466      | 6.688     | ug/l # | 17       |
| 41) Methacrylonitrile         | 7.550          | 41   | 64         | Below Cal | #      | 1        |
| 43) Isopropyl Acetate         | 8.461          | 43   | 64         | 5.235     | ug/l # | 47       |
| 49) 1,4-Dioxane               | 9.555          | 88   | 56         | 3.084     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.238         | 43   | 305        | 30.760    | ug/l # | 34       |
| 56) Ethyl methacrylate        | 10.561         | 69   | 74         | 5.989     | ug/l # | 74       |
| 59) 2-Hexanone                | 11.132         | 43   | 72         | 34.607    | ug/l   | 72       |
| 71) Bromoform                 | 12.620         | 173  | 2581       | 1.192     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.391         | 43   | 236        | 5.737     | ug/l # | 40       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 176076     | 63.093    | ug/l # | 1        |
| 79) 2-Chlorotoluene           | 12.896         | 91   | 46648      | 3.147     | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 176076     | 136.303   | ug/l # | 19       |
| 82) 4-Chlorotoluene           | 12.896         | 91   | 46648      | 3.031     | ug/l   | 97       |
| -----                         |                |      |            |           |        |          |

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

Quant Time: Dec 16 04:29:03 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
Response via : Initial Calibration

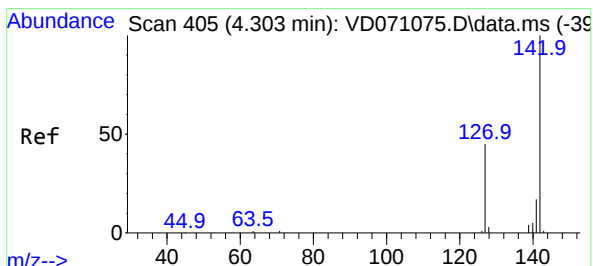
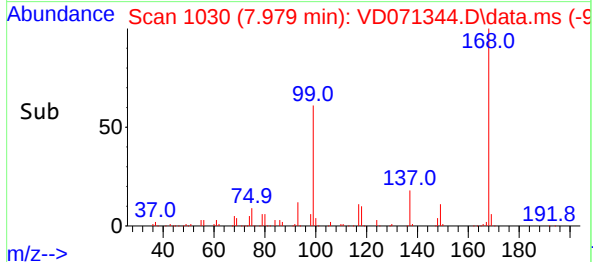
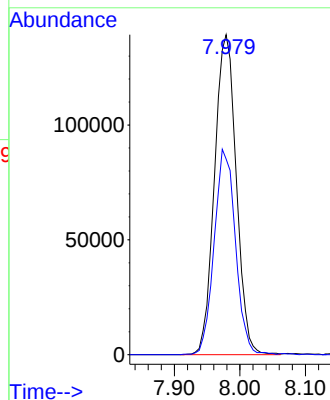
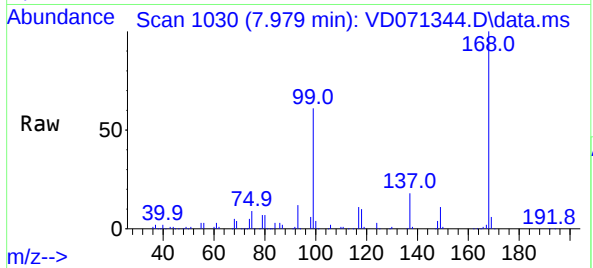




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

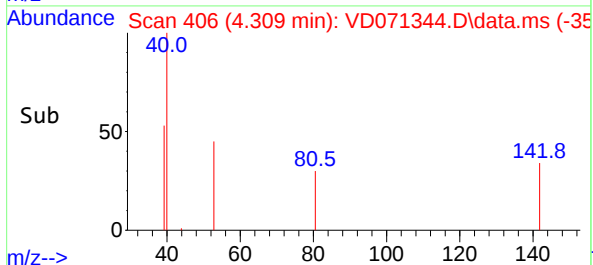
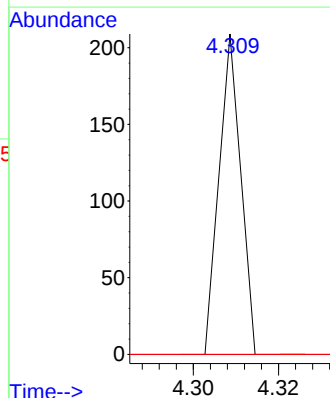
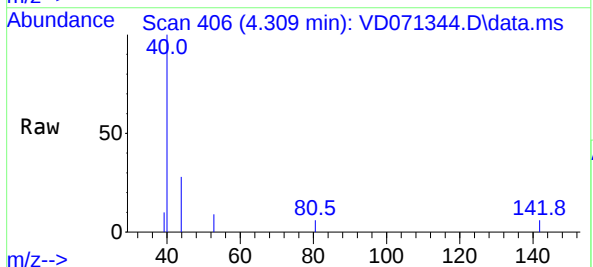
Instrument :  
MSVOA\_D  
ClientSampleId :

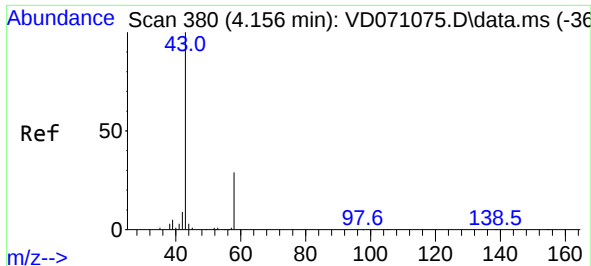
Tgt Ion:168 Resp: 320708  
Ion Ratio Lower Upper  
168 100  
99 61.2 46.6 69.8



#10  
Methyl Iodide  
Concen: 4.579 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Tgt Ion:142 Resp: 74  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.4#  
141 0.0 12.0 18.0#

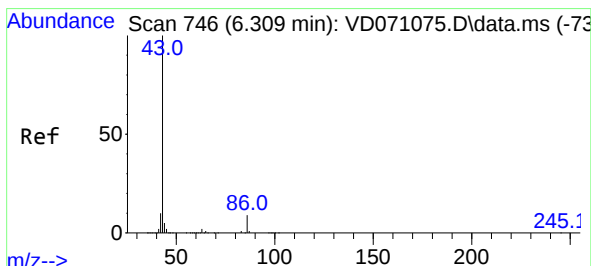
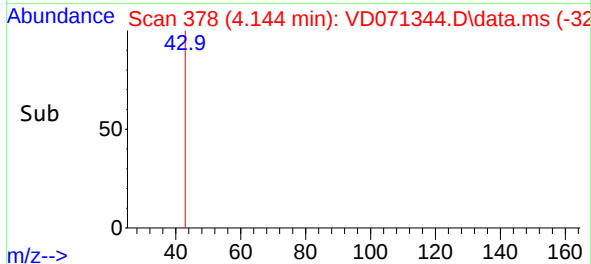
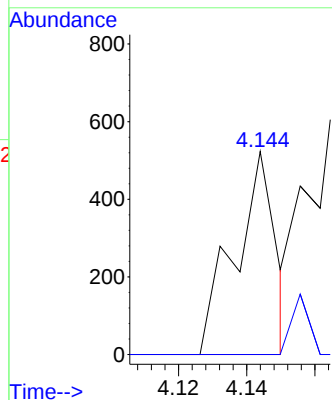
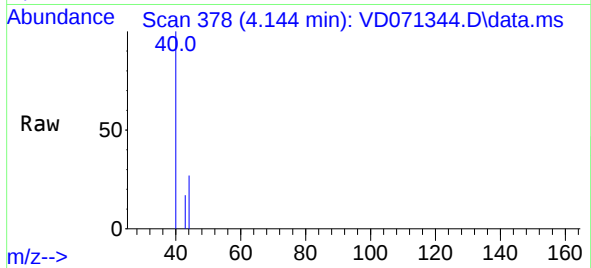




#16  
Acetone  
Concen: 31.178 ug/l  
RT: 4.144 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

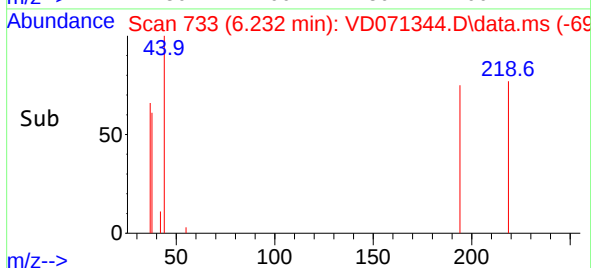
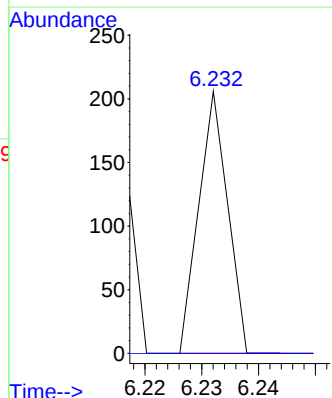
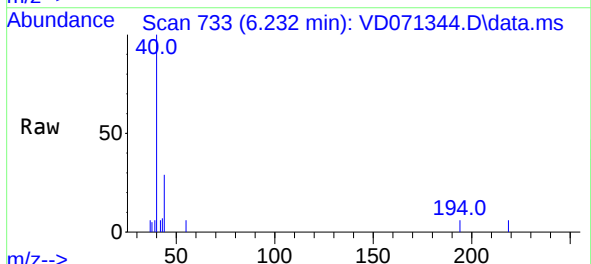
Instrument :  
MSVOA\_D  
ClientSampleId :

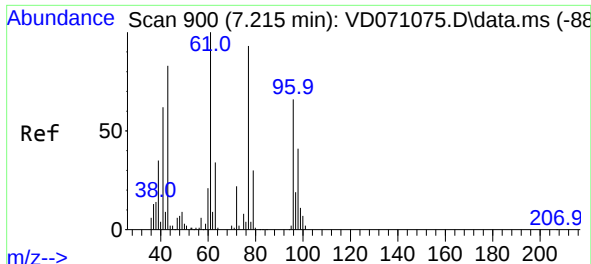
Tgt Ion: 43 Resp: 435  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.8 41.8#



#23  
Vinyl Acetate  
Concen: 27.229 ug/l  
RT: 6.232 min Scan# 733  
Delta R.T. -0.077 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

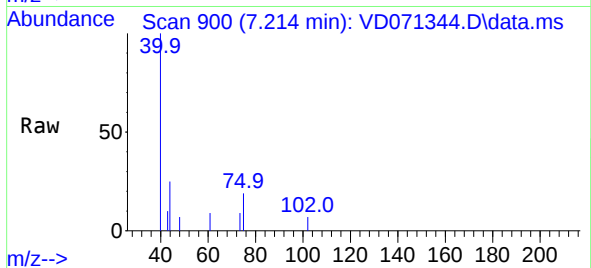
Tgt Ion: 43 Resp: 73  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.2 12.4#



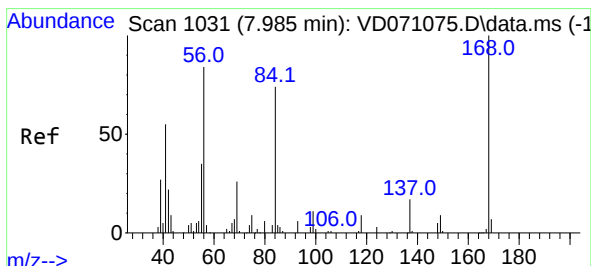
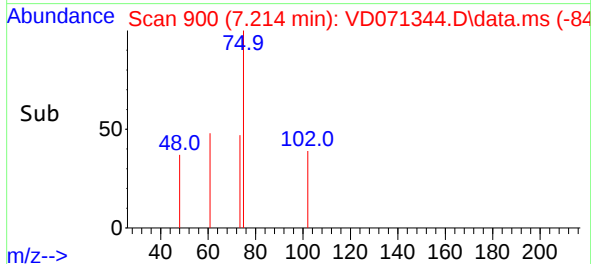
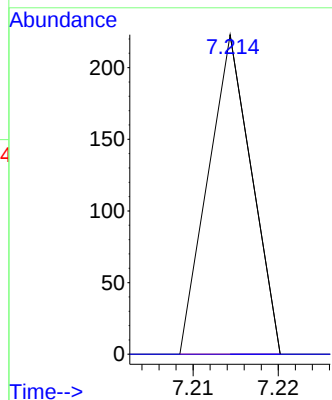


#25  
2-Butanone  
Concen: 28.420 ug/l  
RT: 7.214 min Scan# 90  
Delta R.T. -0.001 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Instrument :  
MSVOA\_D  
ClientSampleId :

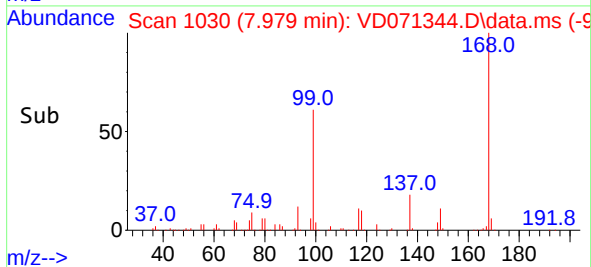
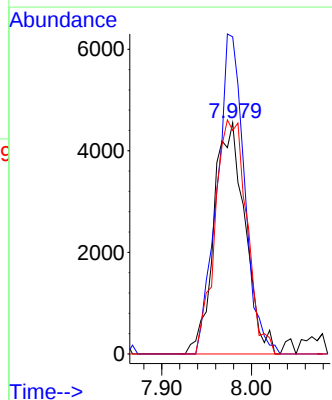
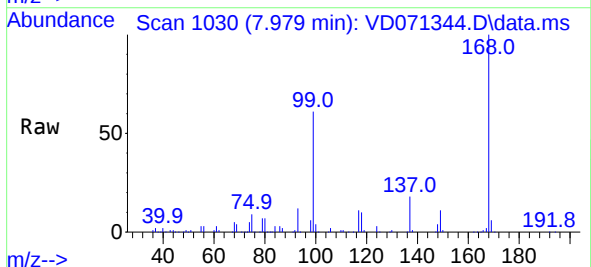


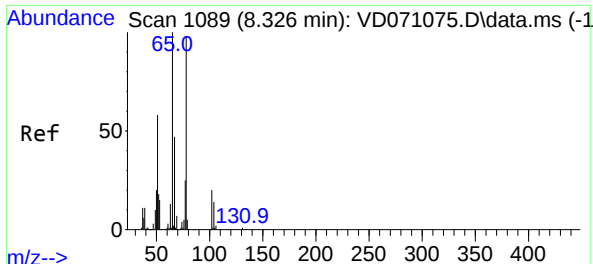
Tgt Ion: 43 Resp: 79  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.8 35.6#



#31  
Cyclohexane  
Concen: 1.714 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Tgt Ion: 56 Resp: 10973  
Ion Ratio Lower Upper  
56 100  
69 137.1 25.9 38.9#  
84 96.6 64.3 96.5#

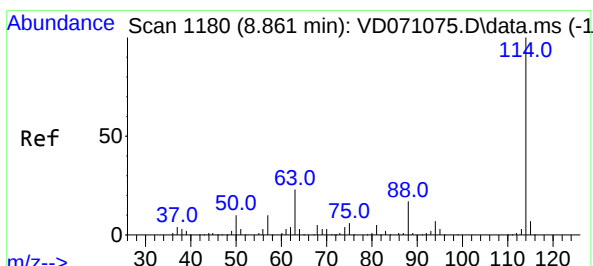
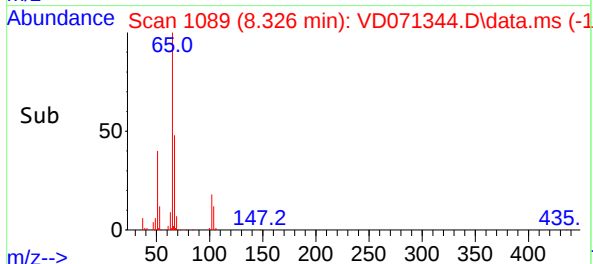
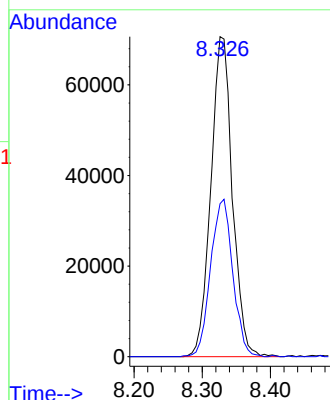
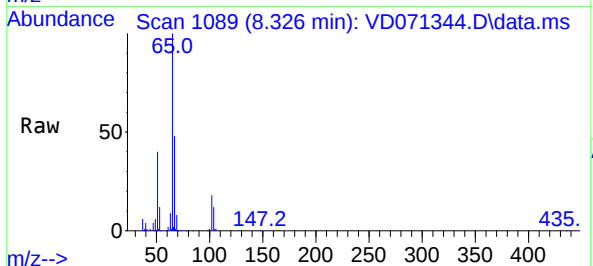




#33  
1,2-Dichloroethane-d4  
Concen: 41.235 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

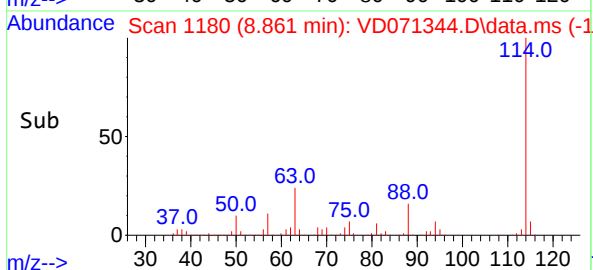
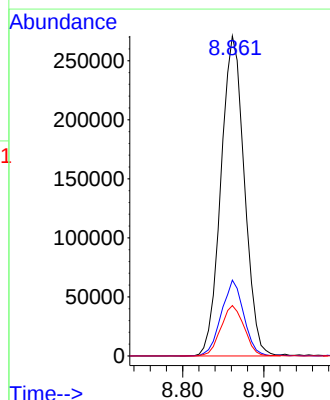
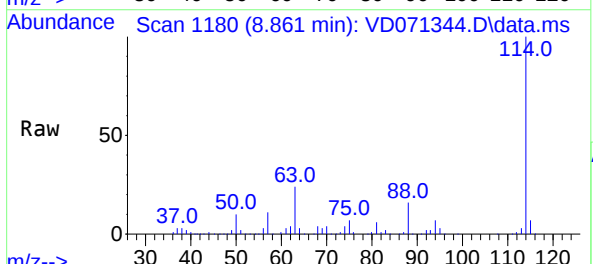
Instrument :  
MSVOA\_D  
ClientSampleId :

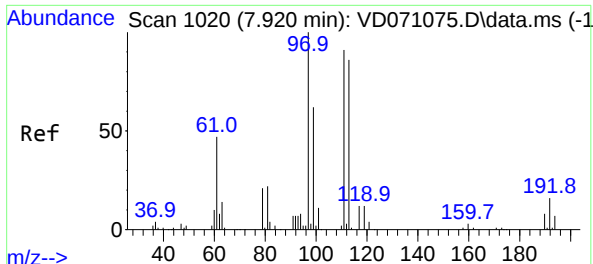
Tgt Ion: 65 Resp: 155174  
Ion Ratio Lower Upper  
65 100  
67 50.7 0.0 112.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

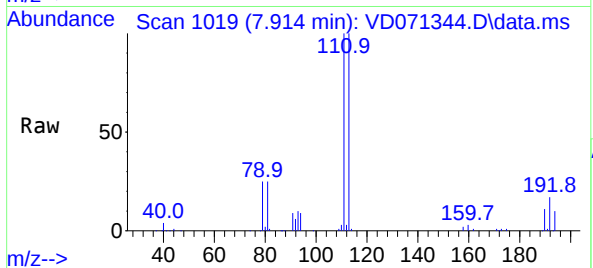
Tgt Ion: 114 Resp: 543134  
Ion Ratio Lower Upper  
114 100  
63 23.7 0.0 41.8  
88 15.7 0.0 32.8



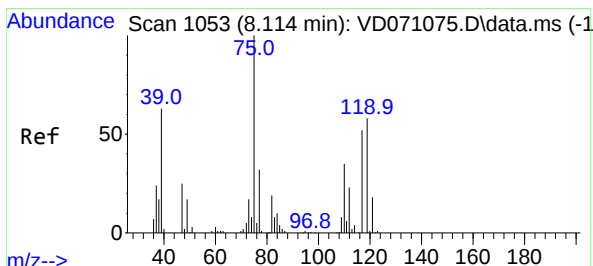
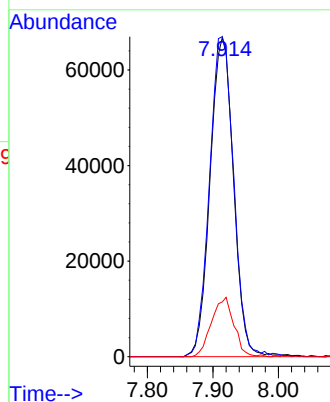
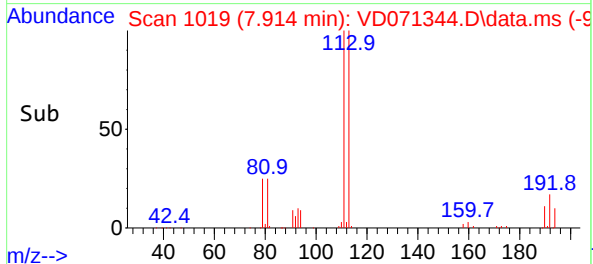


#35  
Dibromofluoromethane  
Concen: 47.791 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

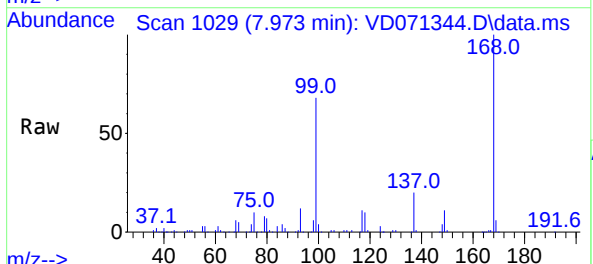
Instrument :  
MSVOA\_D  
ClientSampleId :



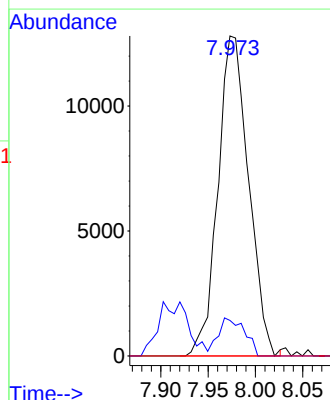
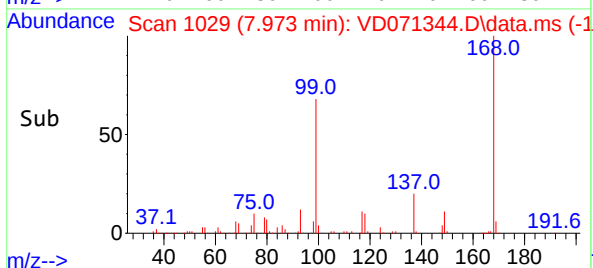
Tgt Ion:113 Resp: 165292  
Ion Ratio Lower Upper  
113 100  
111 103.7 82.0 123.0  
192 17.9 15.2 22.8

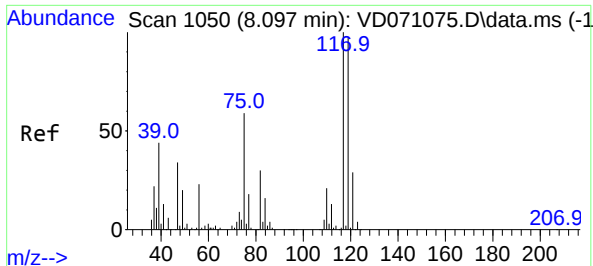


#36  
1,1-Dichloropropene  
Concen: 5.691 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.141 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56



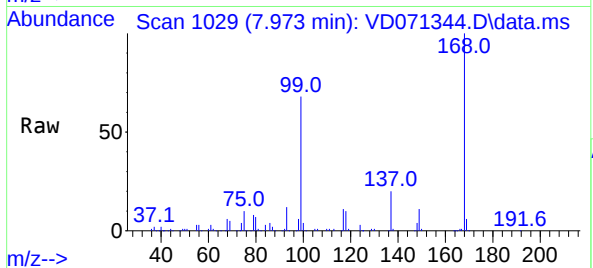
Tgt Ion: 75 Resp: 28890  
Ion Ratio Lower Upper  
75 100  
110 10.2 17.8 53.4#  
77 0.0 24.8 37.2#



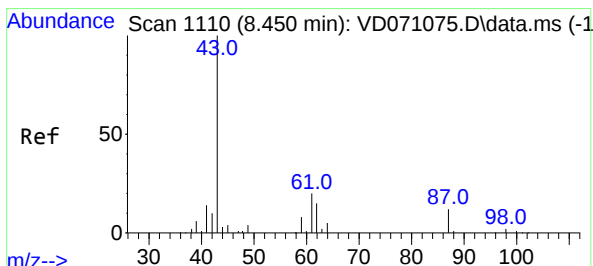
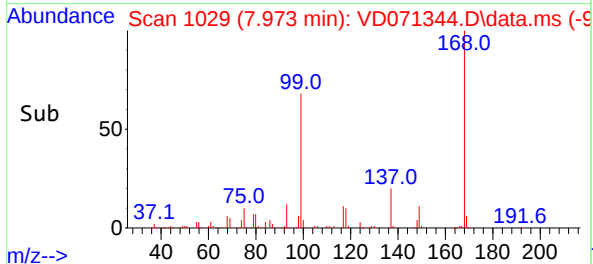
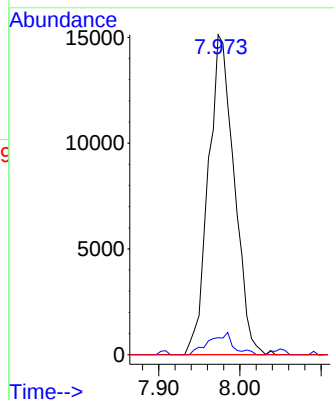


#38  
Carbon Tetrachloride  
Concen: 6.688 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.124 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Instrument :  
MSVOA\_D  
ClientSampleId :

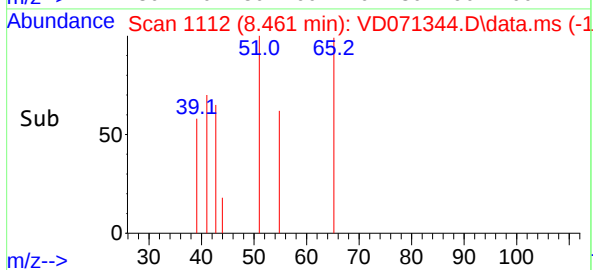
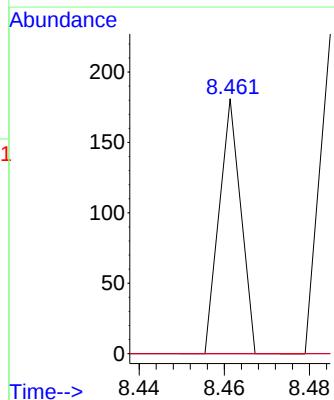
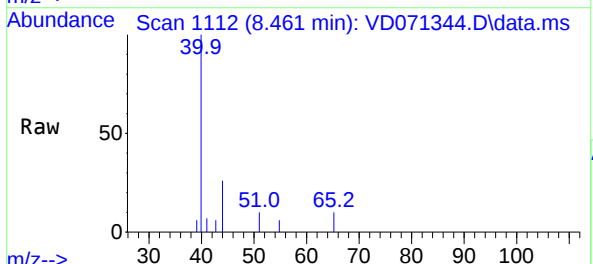


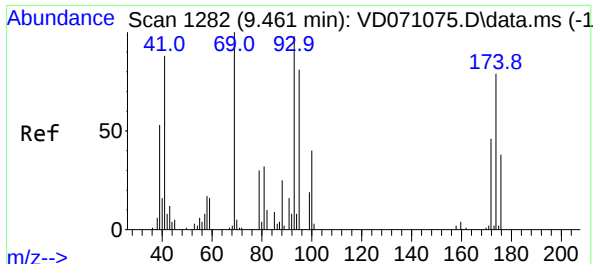
Tgt Ion:117 Resp: 33466  
Ion Ratio Lower Upper  
117 100  
119 5.3 75.8 113.6#  
121 0.0 23.6 35.4#



#43  
Isopropyl Acetate  
Concen: 5.235 ug/l  
RT: 8.461 min Scan# 1112  
Delta R.T. 0.011 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Tgt Ion: 43 Resp: 64  
Ion Ratio Lower Upper  
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61 0.0 28.2 42.4#  
87 0.0 10.7 16.1#

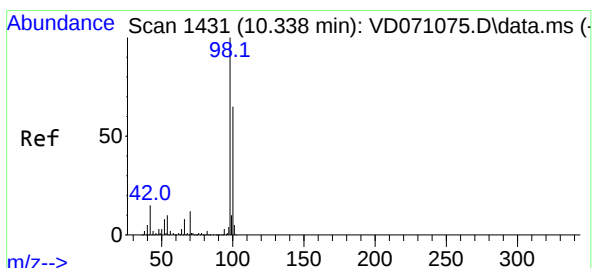
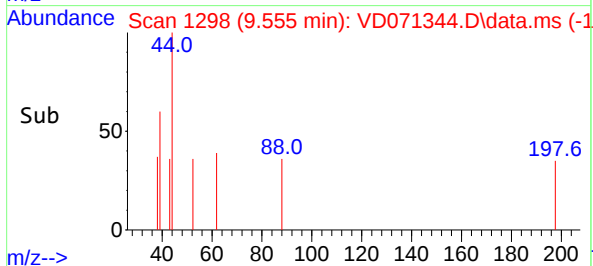
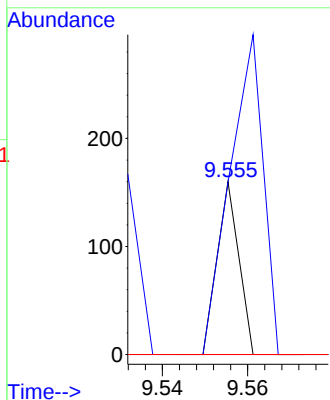
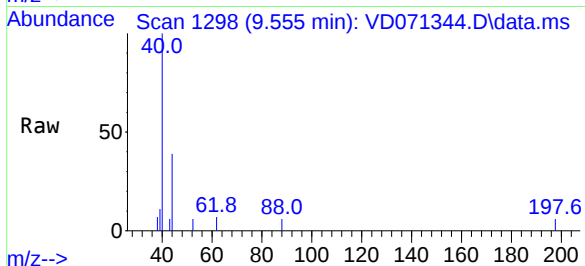




#49  
1,4-Dioxane  
Concen: 3.084 ug/l  
RT: 9.555 min Scan# 1298  
Delta R.T. 0.094 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

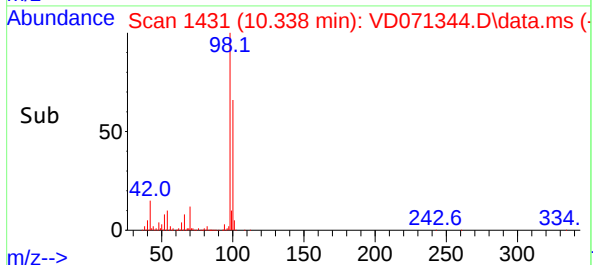
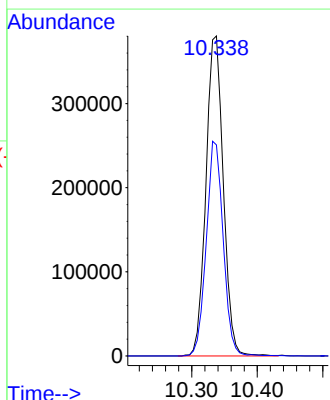
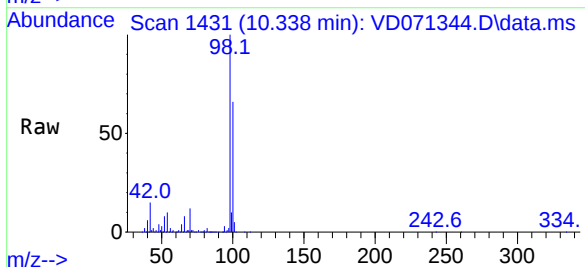
Instrument :  
MSVOA\_D  
ClientSampleId :

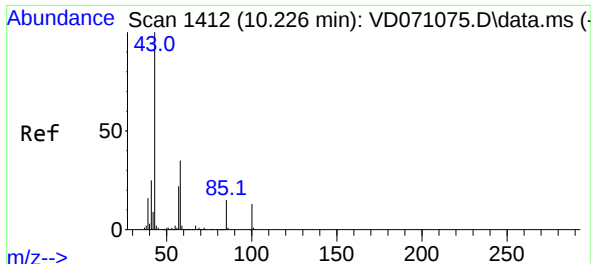
Tgt Ion: 88 Resp: 56  
Ion Ratio Lower Upper  
88 100  
43 287.5 28.9 43.3#  
58 0.0 56.3 84.5#



#50  
Toluene-d8  
Concen: 53.161 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Tgt Ion: 98 Resp: 699694  
Ion Ratio Lower Upper  
98 100  
100 65.6 51.8 77.6

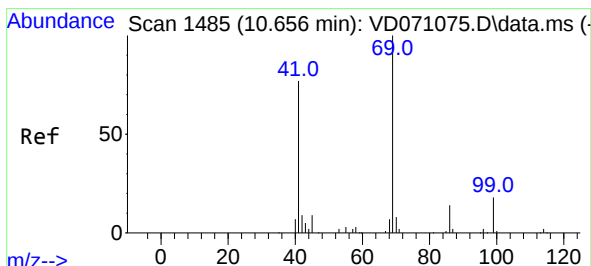
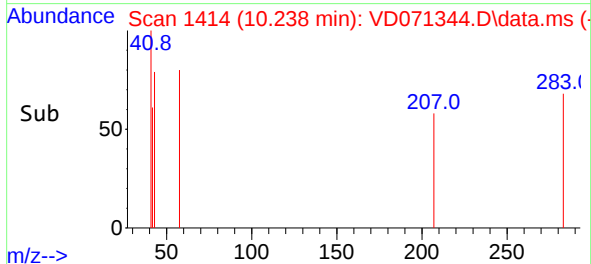
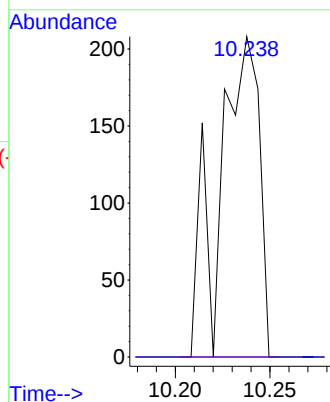
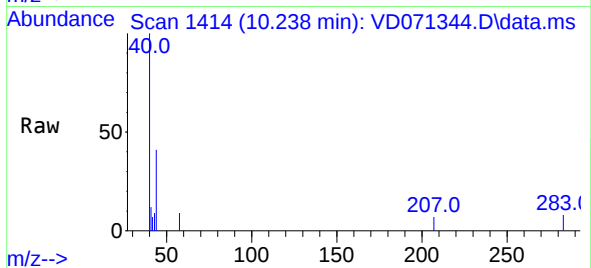




#51  
4-Methyl-2-Pentanone  
Concen: 30.760 ug/l  
RT: 10.238 min Scan# 1412  
Delta R.T. 0.012 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

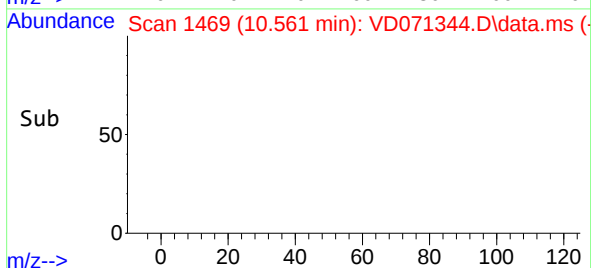
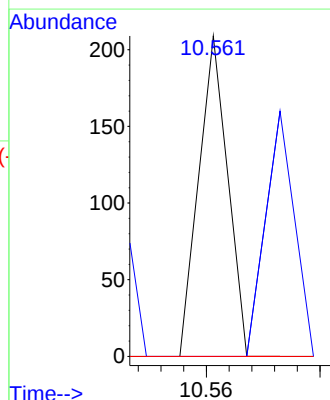
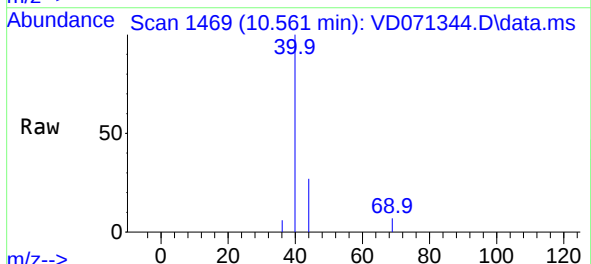
Instrument :  
MSVOA\_D  
ClientSampleId :

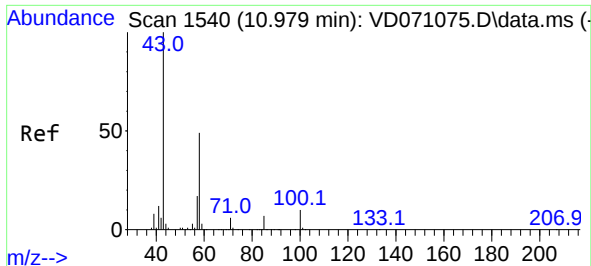
Tgt Ion: 43 Resp: 305  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#



#56  
Ethyl methacrylate  
Concen: 5.989 ug/l  
RT: 10.561 min Scan# 1469  
Delta R.T. -0.095 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Tgt Ion: 69 Resp: 74  
Ion Ratio Lower Upper  
69 100  
41 75.7 50.2 75.2#  
39 0.0 19.8 29.8#

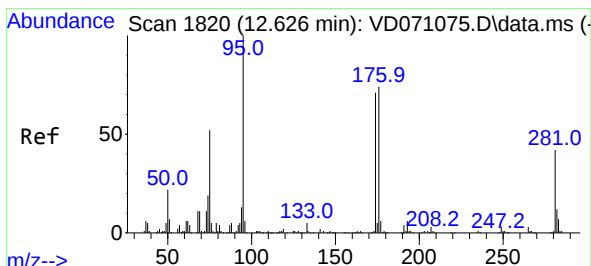
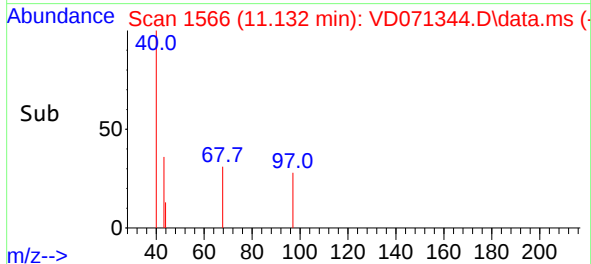
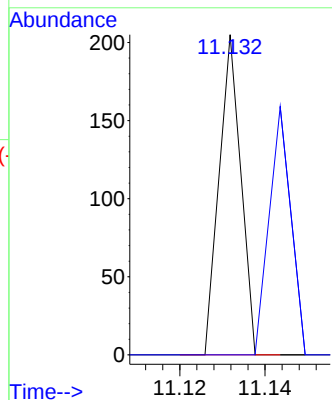
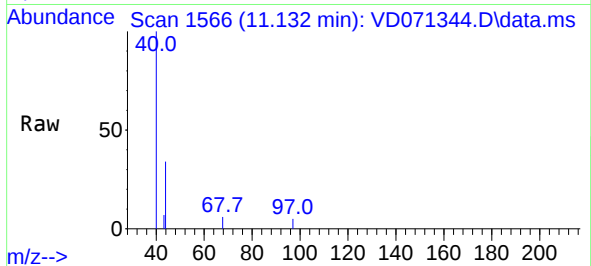




#59  
2-Hexanone  
Concen: 34.607 ug/l  
RT: 11.132 min Scan# 11  
Delta R.T. 0.153 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

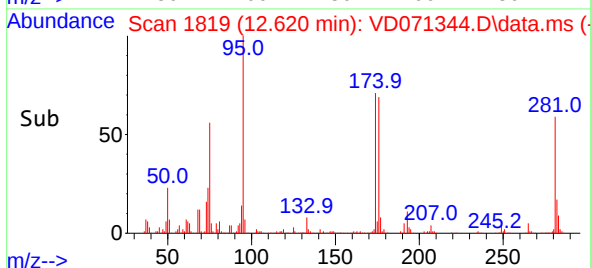
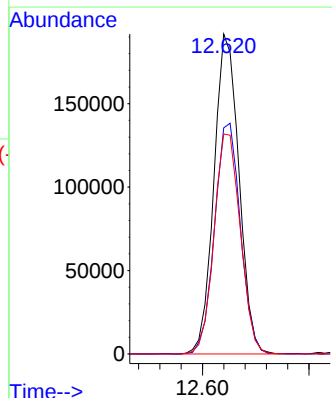
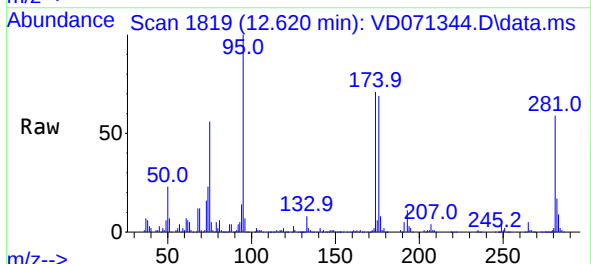
Instrument :  
MSVOA\_D  
ClientSampleId :

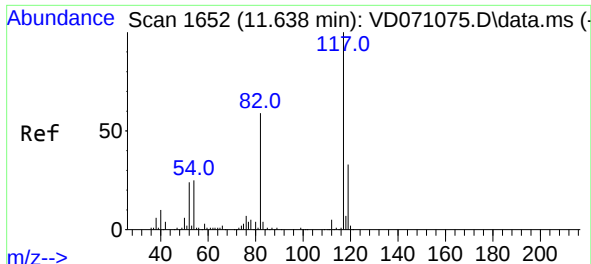
Tgt Ion: 43 Resp: 72  
Ion Ratio Lower Upper  
43 100  
58 77.8 28.7 86.1



#62  
4-Bromofluorobenzene  
Concen: 68.412 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

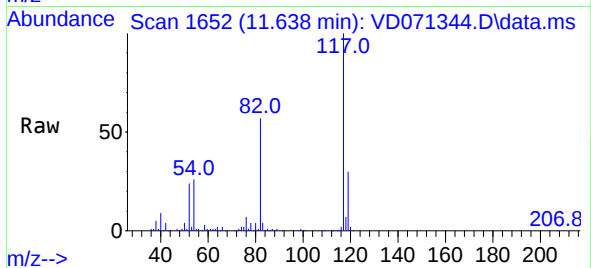
Tgt Ion: 95 Resp: 312120  
Ion Ratio Lower Upper  
95 100  
174 74.6 0.0 159.4  
176 72.2 0.0 154.0



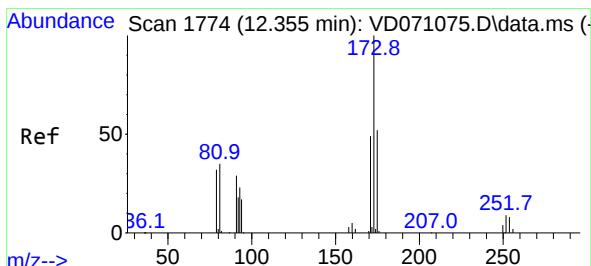
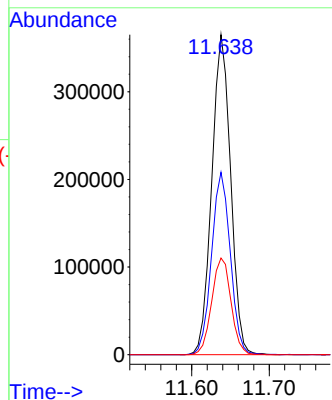
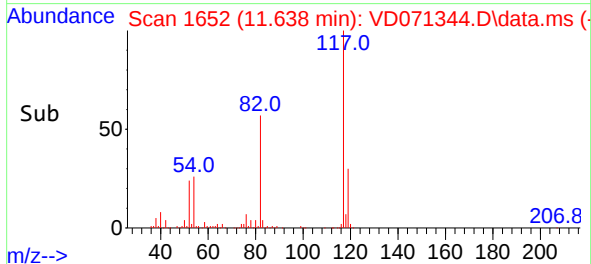


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1170  
Delta R.T. -0.000 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

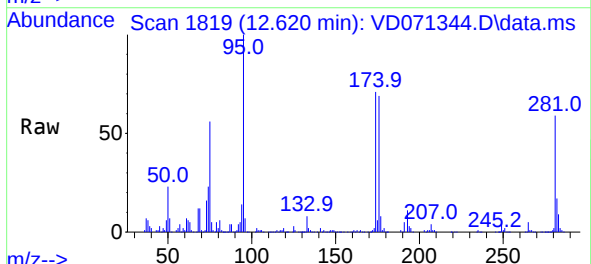
Instrument :  
MSVOA\_D  
ClientSampleId :



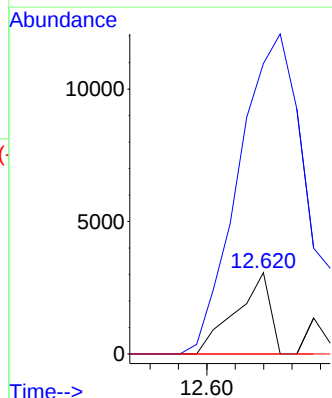
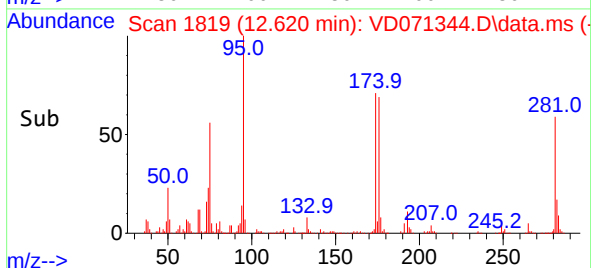
Tgt Ion:117 Resp: 616884  
Ion Ratio Lower Upper  
117 100  
82 57.0 44.7 67.1  
119 30.2 26.2 39.4

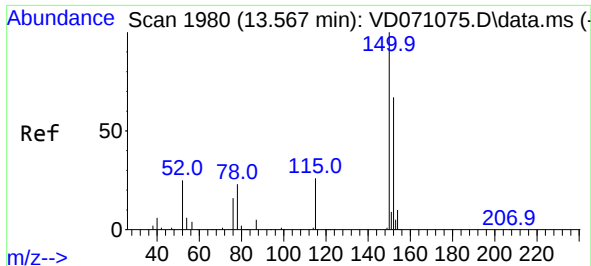


#71  
Bromoform  
Concen: 1.192 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.265 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56



Tgt Ion:173 Resp: 2581  
Ion Ratio Lower Upper  
173 100  
175 669.3 24.1 72.2#  
254 0.0 0.1 0.1#

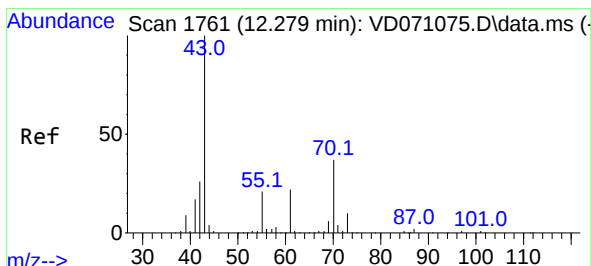
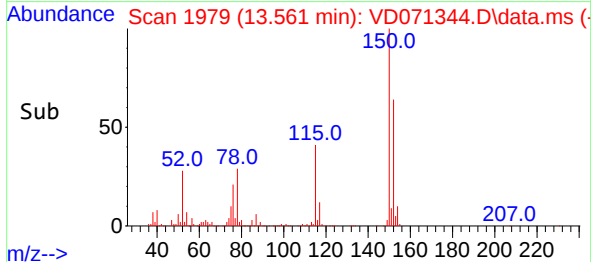
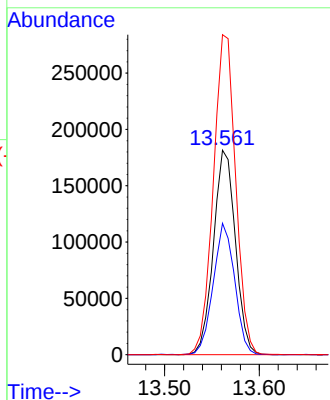
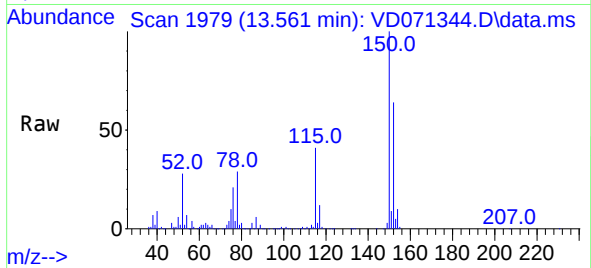




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1980  
Delta R.T. -0.006 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

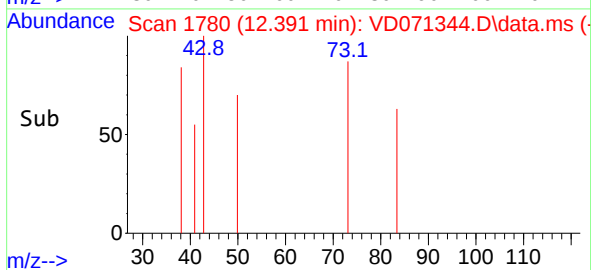
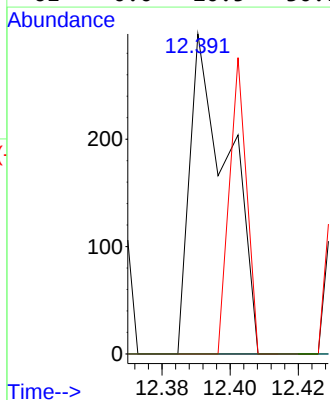
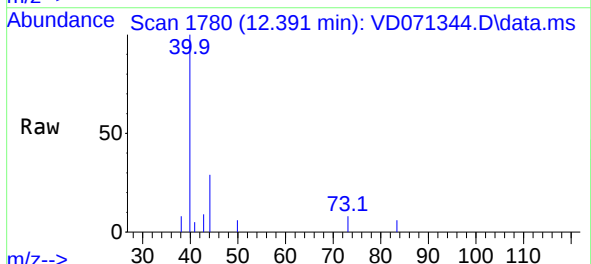
Instrument :  
MSVOA\_D  
ClientSampleId :

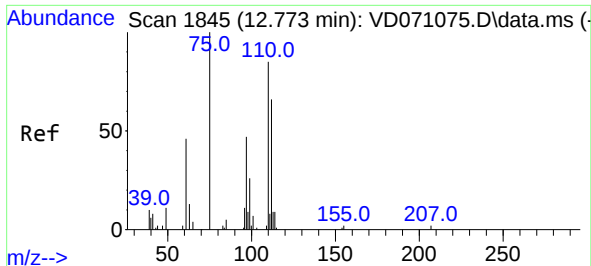
Tgt Ion:152 Resp: 292912  
Ion Ratio Lower Upper  
152 100  
115 62.8 29.8 89.3  
150 159.1 0.0 349.2



#74  
N-ethyl acetate  
Concen: 5.737 ug/l  
RT: 12.391 min Scan# 1780  
Delta R.T. 0.112 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Tgt Ion: 43 Resp: 236  
Ion Ratio Lower Upper  
43 100  
70 0.0 36.6 55.0#  
55 0.0 22.5 33.7#  
61 0.0 20.5 30.7#

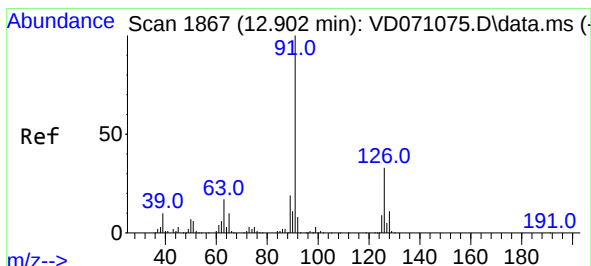
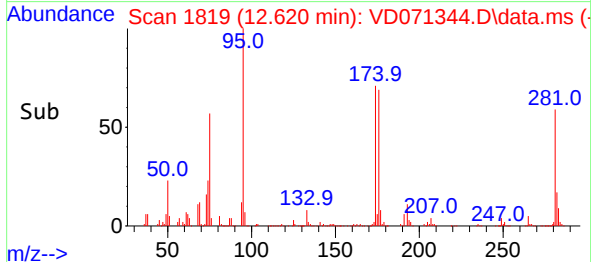
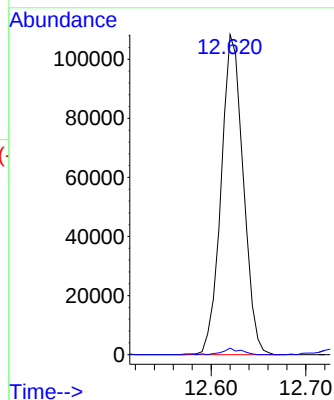
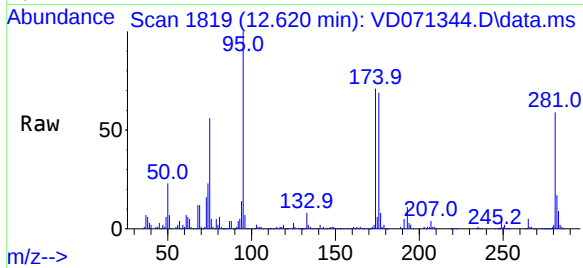




#76  
1,2,3-Trichloropropane  
Concen: 63.093 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

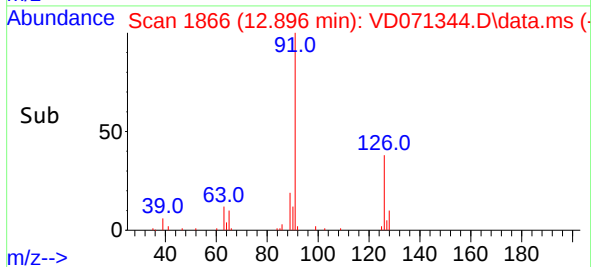
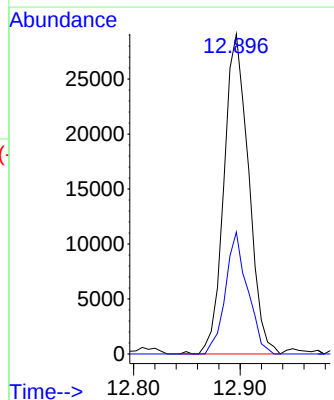
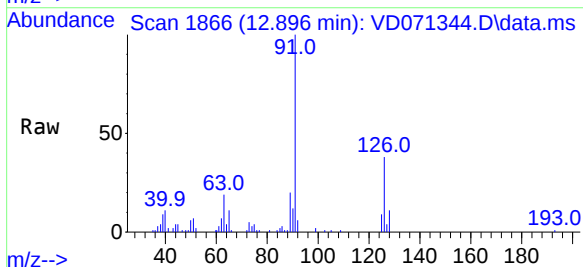
Instrument :  
MSVOA\_D  
ClientSampleId :

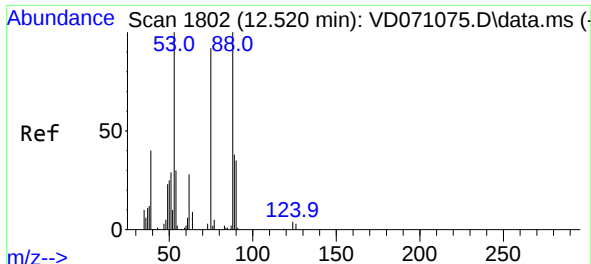
Tgt Ion: 75 Resp: 176076  
Ion Ratio Lower Upper  
75 100  
77 1.7 158.4 475.3#



#79  
2-Chlorotoluene  
Concen: 3.147 ug/l  
RT: 12.896 min Scan# 1866  
Delta R.T. -0.006 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Tgt Ion: 91 Resp: 46648  
Ion Ratio Lower Upper  
91 100  
126 34.2 16.6 49.7

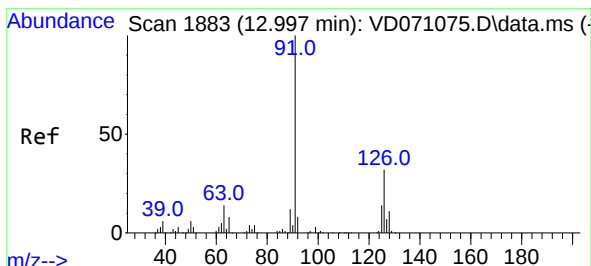
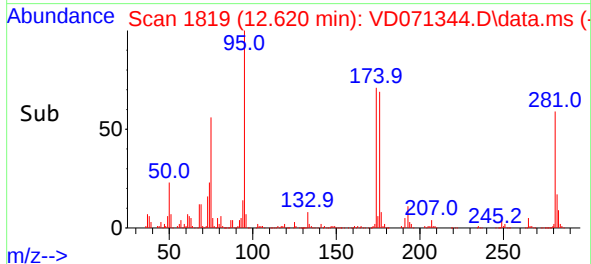
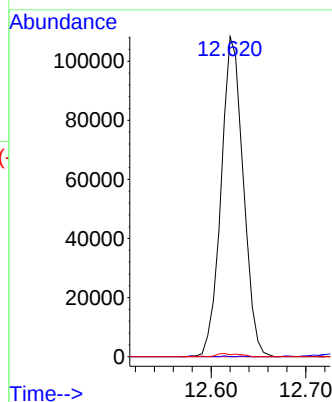
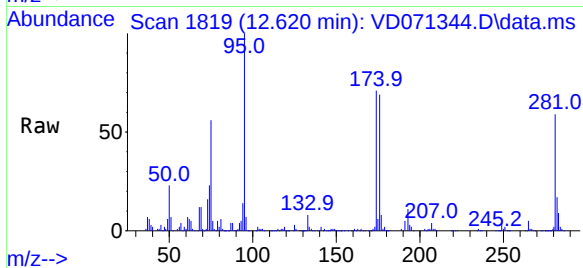




#81  
trans-1,4-Dichloro-2-butene  
Concen: 136.303 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 176076  
Ion Ratio Lower Upper  
75 100  
53 0.0 62.6 94.0#  
89 1.0 34.5 51.7#



#82  
4-Chlorotoluene  
Concen: 3.031 ug/l  
RT: 12.896 min Scan# 1866  
Delta R.T. -0.101 min  
Lab File: VD071344.D  
Acq: 15 Dec 2021 15:56

Tgt Ion: 91 Resp: 46648  
Ion Ratio Lower Upper  
91 100  
126 34.2 16.4 49.1

