

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121421\  
 Data File : VD071323.D  
 Acq On : 14 Dec 2021 16:24  
 Operator : VA/SY  
 Sample : M5064-04  
 Misc : 5.48G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 15 08:31:11 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

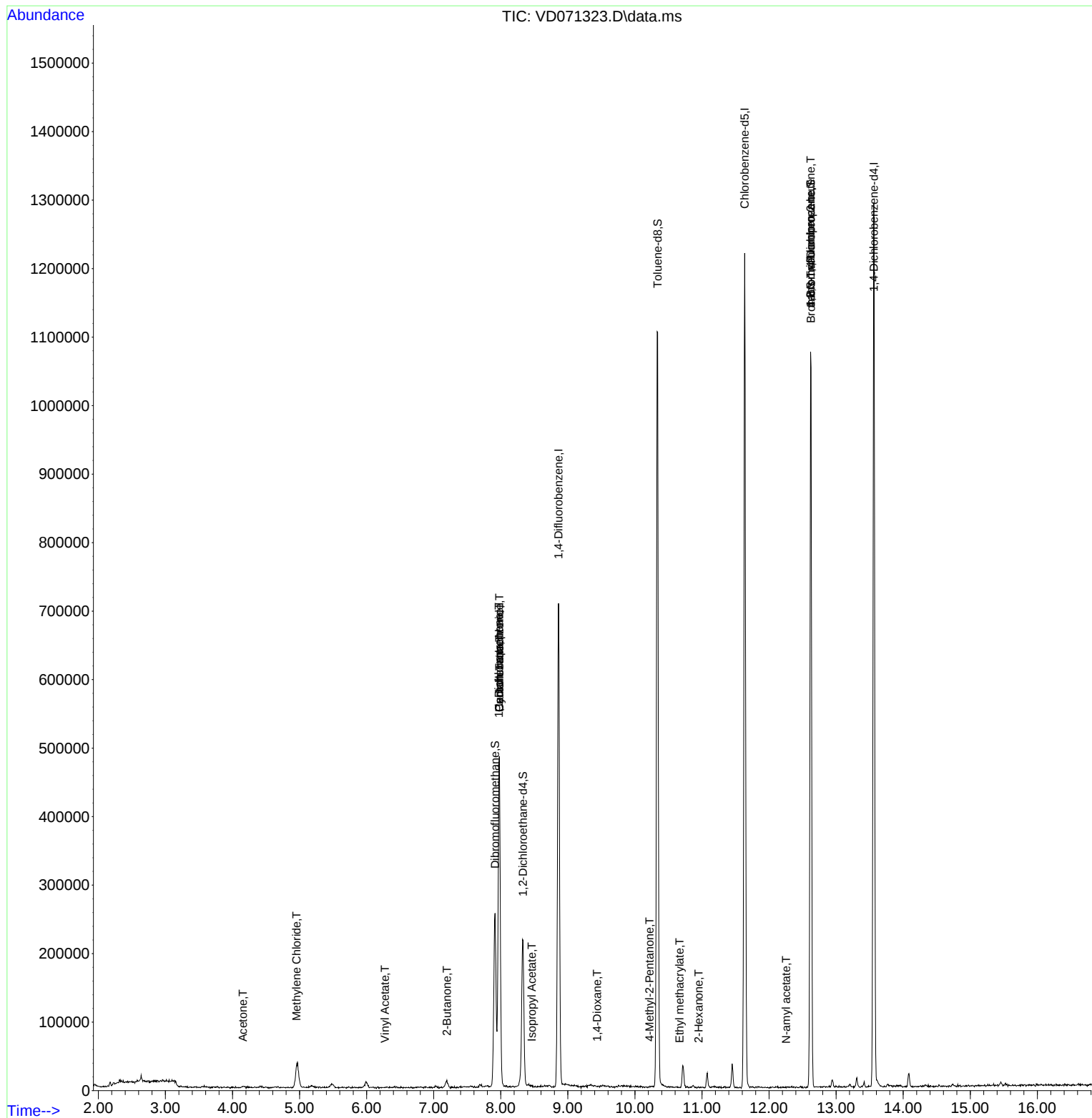
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 332739     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 566535     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 629966     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 306976     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 169771     | 43.483    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 86.960%   |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 175335     | 48.601    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 97.200%   |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 736900     | 53.675    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 107.360%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 311853     | 65.530    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 131.060%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.191          | 59   | 1805       | Below Cal | #      | 71       |
| 16) Acetone                   | 4.156          | 43   | 2657       | 33.043    | ug/l # | 85       |
| 20) Methylene Chloride        | 4.956          | 84   | 25892      | 2.614     | ug/l # | 88       |
| 23) Vinyl Acetate             | 6.273          | 43   | 82         | 27.230    | ug/l # | 72       |
| 25) 2-Butanone                | 7.197          | 43   | 584        | 28.791    | ug/l # | 45       |
| 31) Cyclohexane               | 7.979          | 56   | 9301       | 1.401     | ug/l # | 6        |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 30509      | 5.762     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 34765      | 6.661     | ug/l # | 17       |
| 41) Methacrylonitrile         | 7.550          | 41   | 169        | Below Cal | #      | 18       |
| 43) Isopropyl Acetate         | 8.461          | 43   | 280        | 5.273     | ug/l # | 47       |
| 49) 1,4-Dioxane               | 9.438          | 88   | 58         | 3.062     | ug/l # | 23       |
| 51) 4-Methyl-2-Pentanone      | 10.220         | 43   | 622        | 30.863    | ug/l # | 34       |
| 56) Ethyl methacrylate        | 10.667         | 69   | 355        | 6.055     | ug/l # | 67       |
| 59) 2-Hexanone                | 10.949         | 43   | 65         | 34.603    | ug/l # | 22       |
| 71) Bromoform                 | 12.626         | 173  | 2842       | 1.285     | ug/l # | 1        |
| 74) N-amyl acetate            | 12.255         | 43   | 237        | 5.736     | ug/l # | 51       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 174605     | 59.699    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 174605     | 129.283   | ug/l # | 18       |
| -----                         |                |      |            |           |        |          |

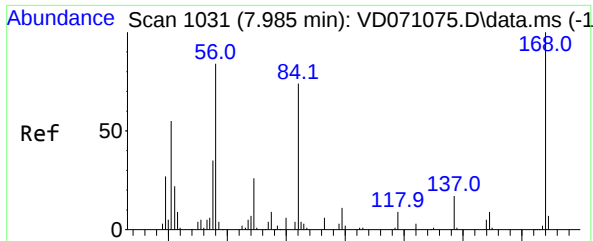
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121421\  
Data File : VD071323.D  
Acq On : 14 Dec 2021 16:24  
Operator : VA/SY  
Sample : M5064-04  
Misc : 5.48G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

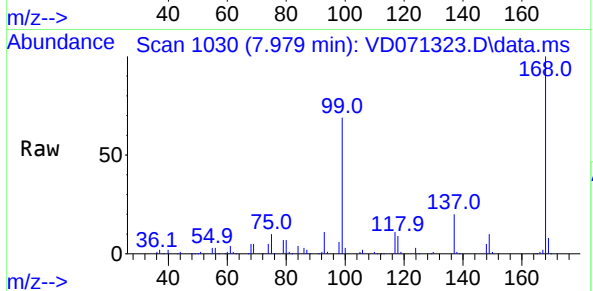
Quant Time: Dec 15 08:31:11 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
Response via : Initial Calibration



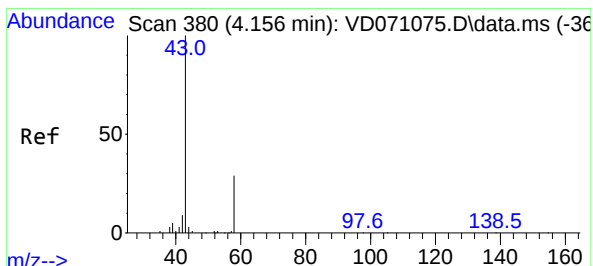
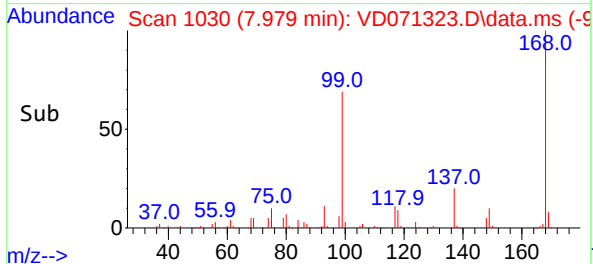
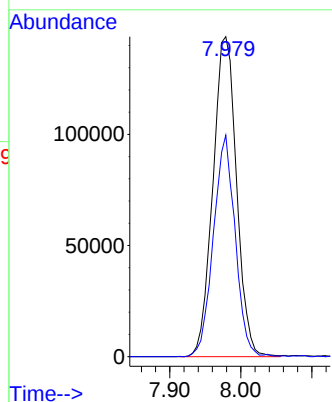


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Instrument :  
MSVOA\_D  
ClientSampleId :

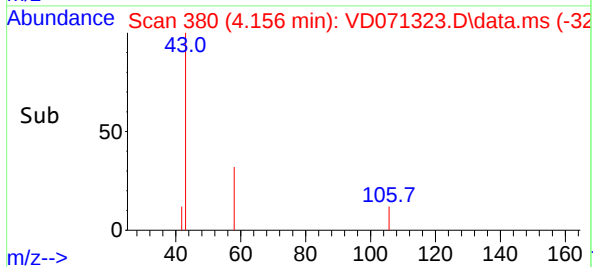
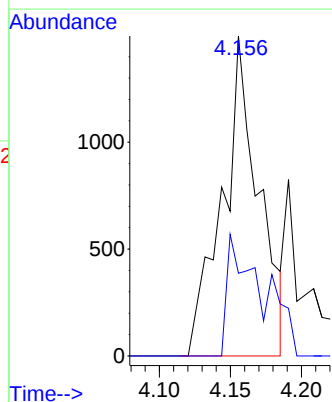
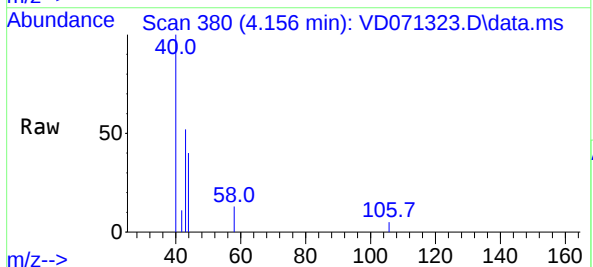


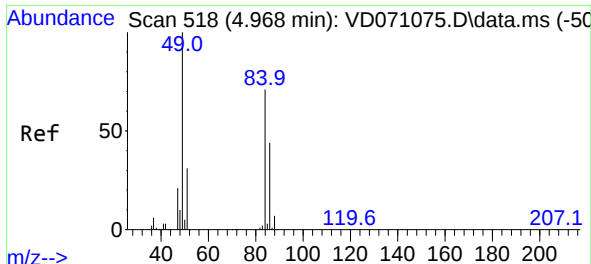
Tgt Ion:168 Resp: 332739  
Ion Ratio Lower Upper  
168 100  
99 69.1 46.6 69.8



#16  
Acetone  
Concen: 33.043 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.000 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion: 43 Resp: 2657  
Ion Ratio Lower Upper  
43 100  
58 25.9 27.8 41.8#





#20

Methylene Chloride

Concen: 2.614 ug/l

RT: 4.956 min Scan# 51

Delta R.T. -0.012 min

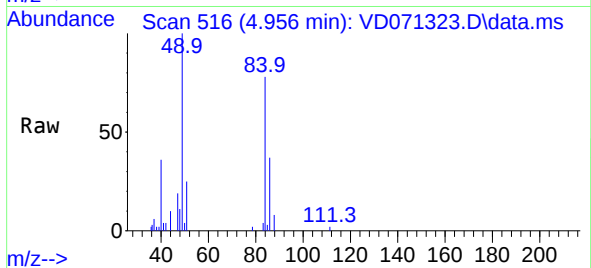
Lab File: VD071323.D

Acq: 14 Dec 2021 16:24

Instrument :

MSVOA\_D

ClientSampleId :



Tgt Ion: 84 Resp: 25892

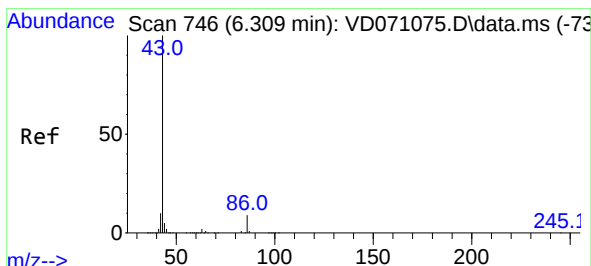
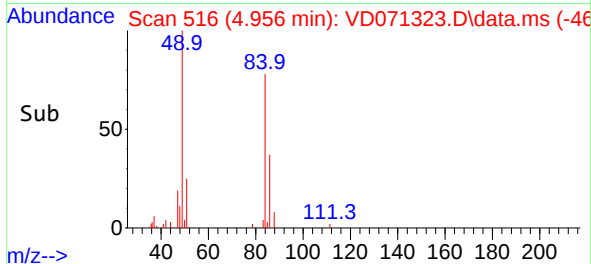
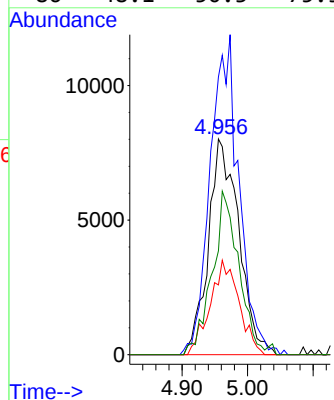
Ion Ratio Lower Upper

84 100

49 128.7 95.8 143.6

51 32.3 30.9 46.3

86 48.1 50.3 75.5#



#23

Vinyl Acetate

Concen: 27.230 ug/l

RT: 6.273 min Scan# 740

Delta R.T. -0.036 min

Lab File: VD071323.D

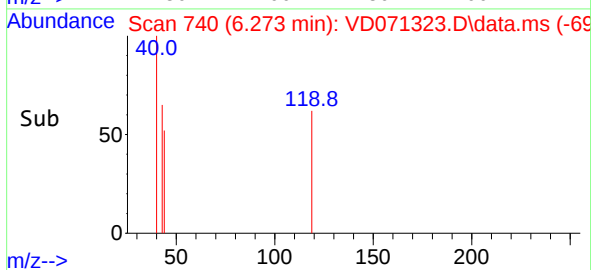
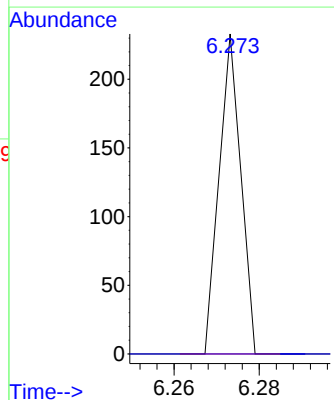
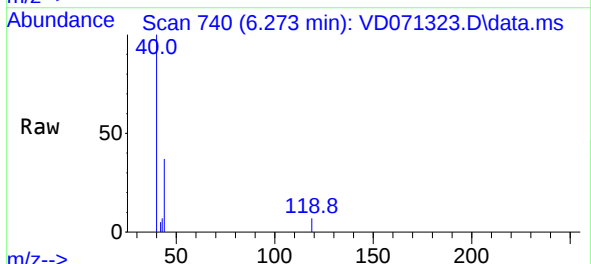
Acq: 14 Dec 2021 16:24

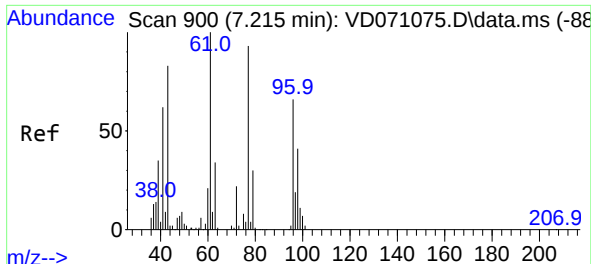
Tgt Ion: 43 Resp: 82

Ion Ratio Lower Upper

43 100

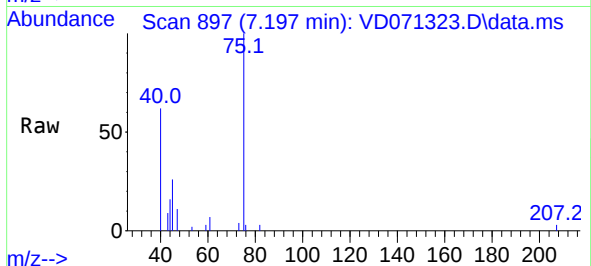
86 0.0 8.2 12.4#



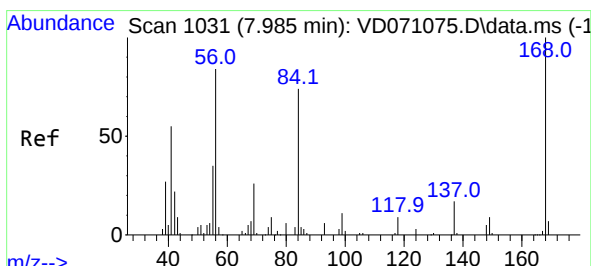
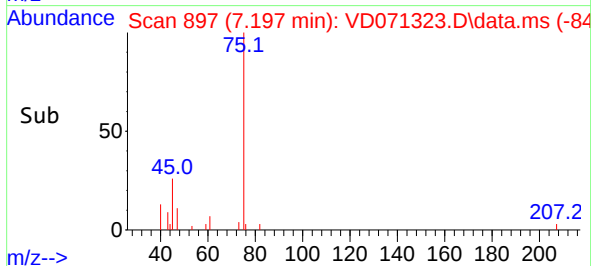
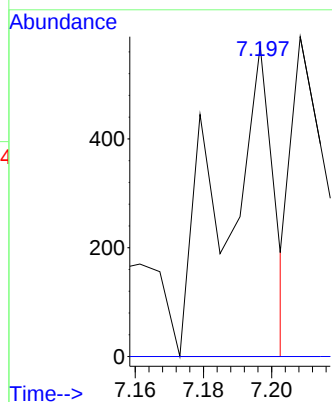


#25  
2-Butanone  
Concen: 28.791 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.018 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Instrument :  
MSVOA\_D  
ClientSampleId :

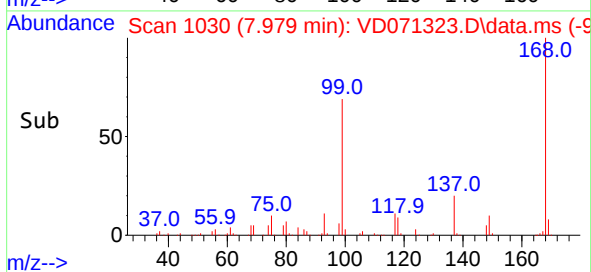
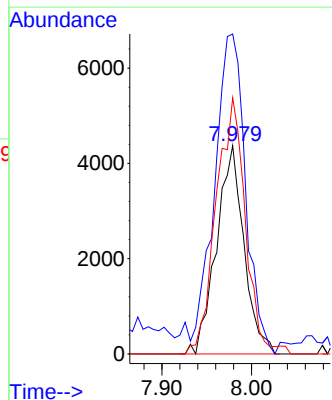
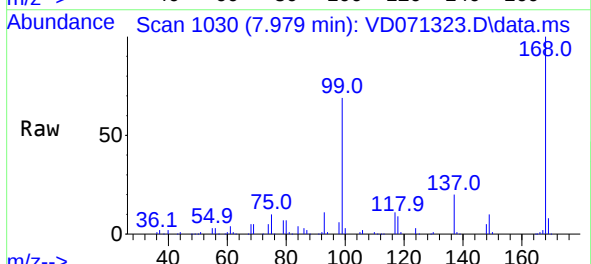


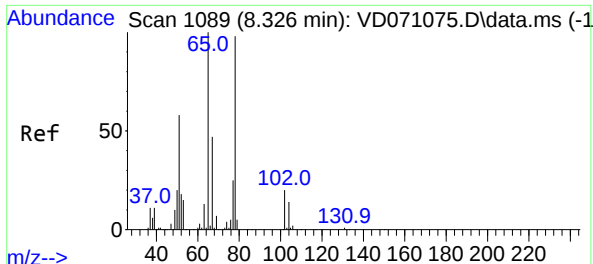
Tgt Ion: 43 Resp: 584  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.8 35.6#



#31  
Cyclohexane  
Concen: 1.401 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion: 56 Resp: 9301  
Ion Ratio Lower Upper  
56 100  
69 148.1 25.9 38.9#  
84 123.0 64.3 96.5#

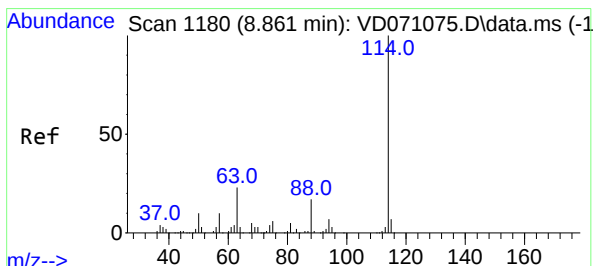
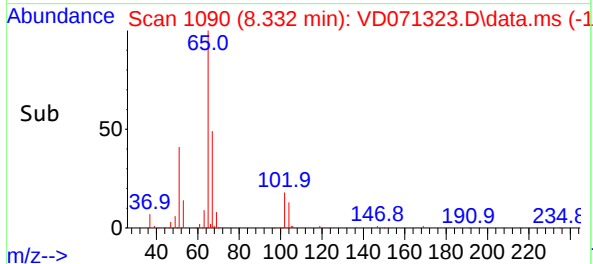
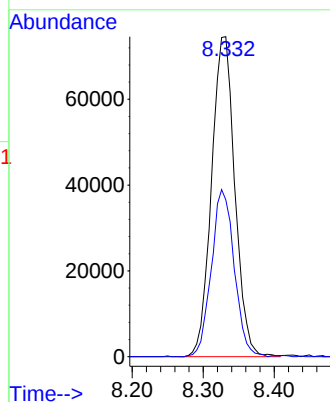
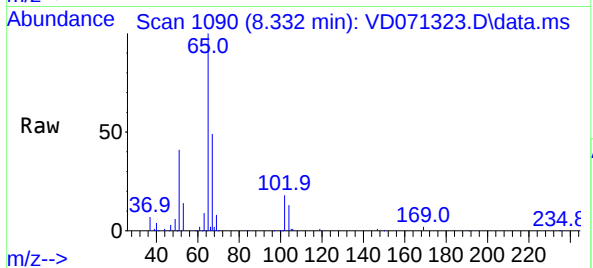




#33  
1,2-Dichloroethane-d4  
Concen: 43.483 ug/l  
RT: 8.332 min Scan# 1089  
Delta R.T. 0.006 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

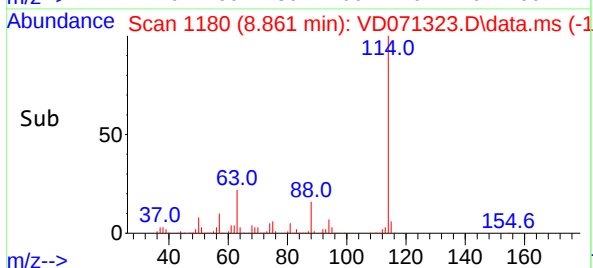
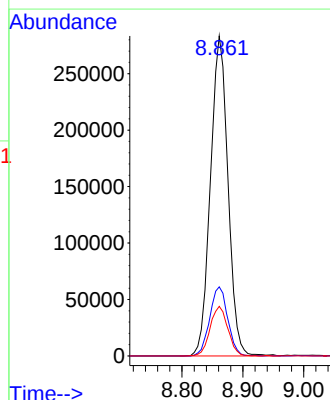
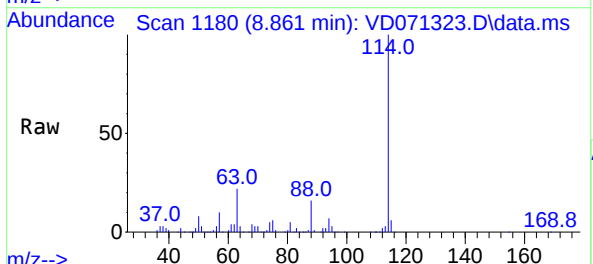
Instrument :  
MSVOA\_D  
ClientSampleId :

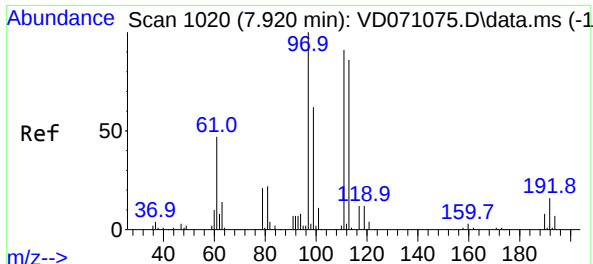
Tgt Ion: 65 Resp: 169771  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 112.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion:114 Resp: 566535  
Ion Ratio Lower Upper  
114 100  
63 21.6 0.0 41.8  
88 15.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.601 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

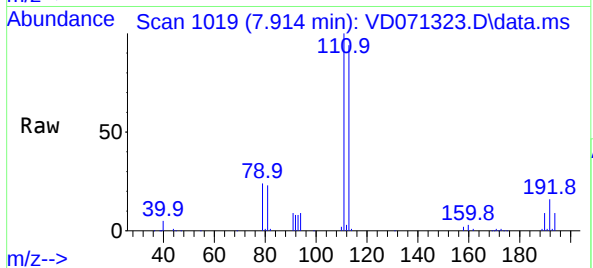
Lab File: VD071323.D

Acq: 14 Dec 2021 16:24

Instrument :

MSVOA\_D

ClientSampleId :



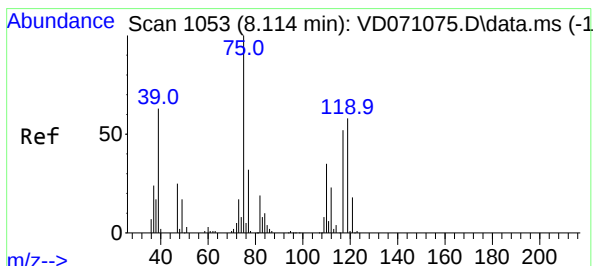
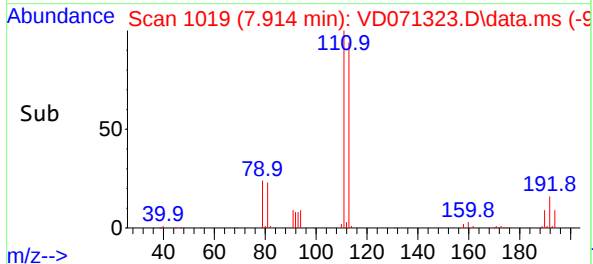
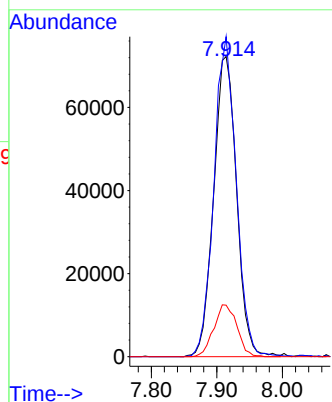
Tgt Ion:113 Resp: 175335

Ion Ratio Lower Upper

113 100

111 103.7 82.0 123.0

192 17.5 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.762 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071323.D

Acq: 14 Dec 2021 16:24

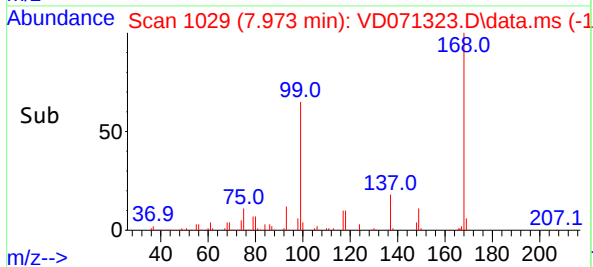
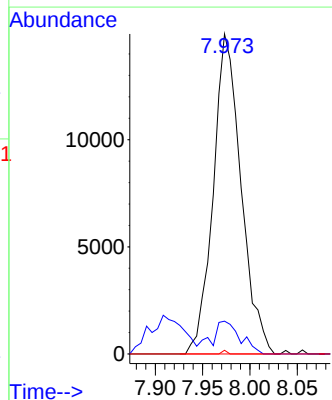
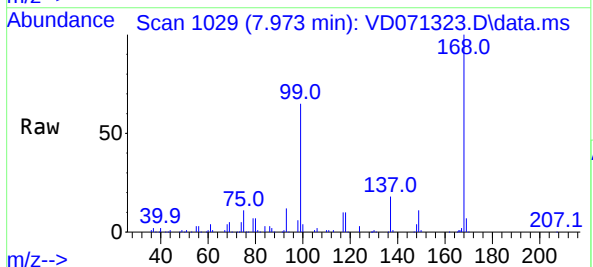
Tgt Ion: 75 Resp: 30509

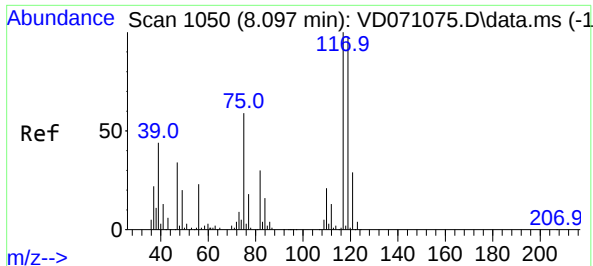
Ion Ratio Lower Upper

75 100

110 9.8 17.8 53.4#

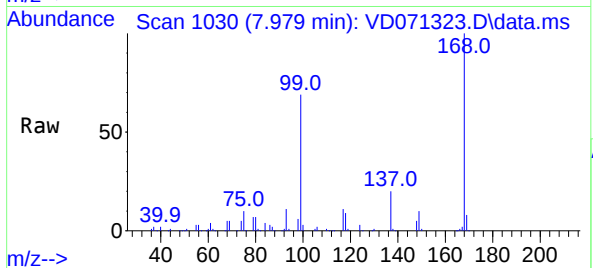
77 0.2 24.8 37.2#



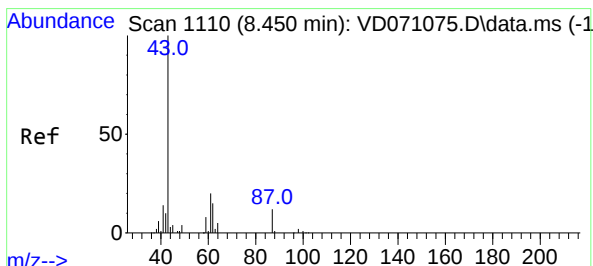
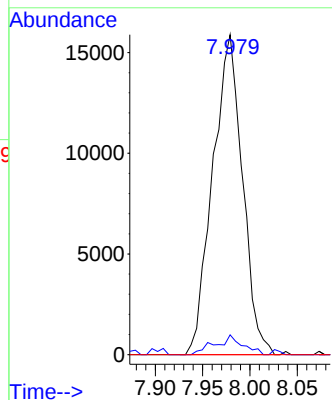
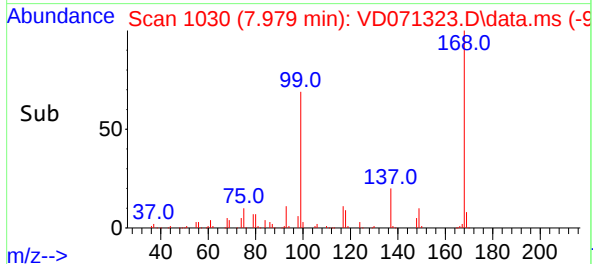


#38  
Carbon Tetrachloride  
Concen: 6.661 ug/l  
RT: 7.979 min Scan# 1107  
Delta R.T. -0.118 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Instrument :  
MSVOA\_D  
ClientSampleId :

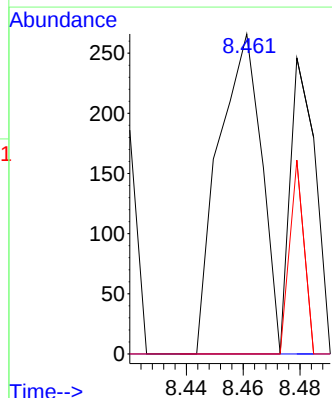
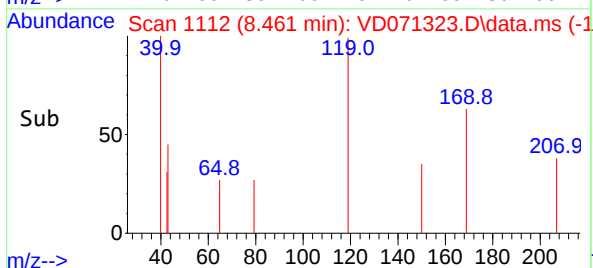
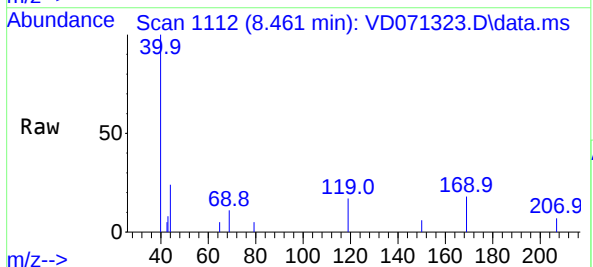


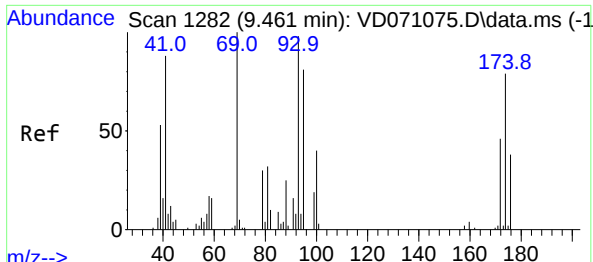
Tgt Ion:117 Resp: 34765  
Ion Ratio Lower Upper  
117 100  
119 6.2 75.8 113.6#  
121 0.0 23.6 35.4#



#43  
Isopropyl Acetate  
Concen: 5.273 ug/l  
RT: 8.461 min Scan# 1112  
Delta R.T. 0.011 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

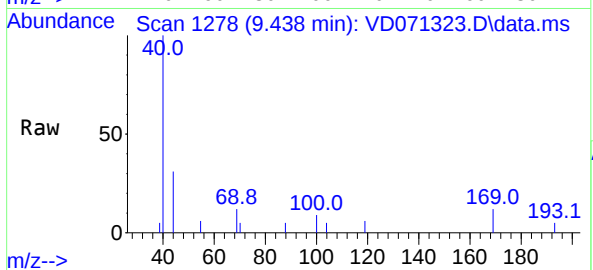
Tgt Ion: 43 Resp: 280  
Ion Ratio Lower Upper  
43 100  
61 0.0 28.2 42.4#  
87 0.0 10.7 16.1#



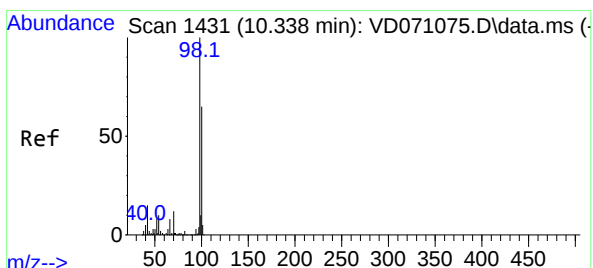
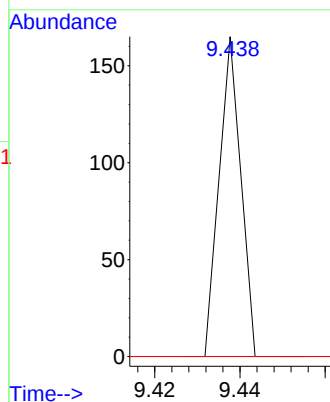
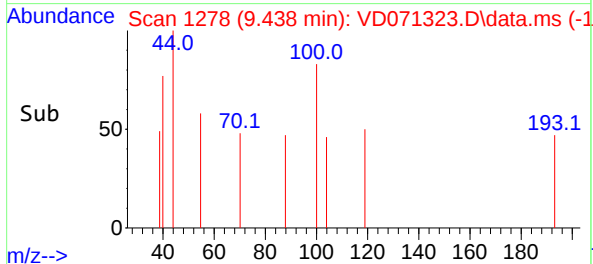


#49  
1,4-Dioxane  
Concen: 3.062 ug/l  
RT: 9.438 min Scan# 1278  
Delta R.T. -0.023 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Instrument :  
MSVOA\_D  
ClientSampleId :

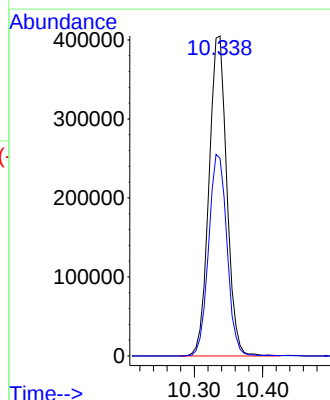
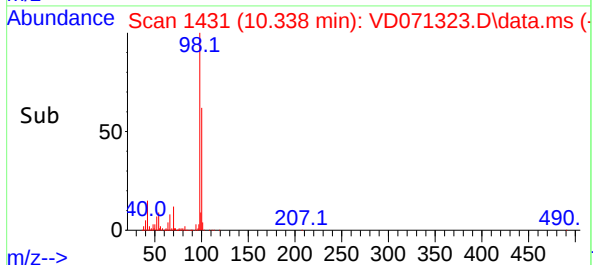
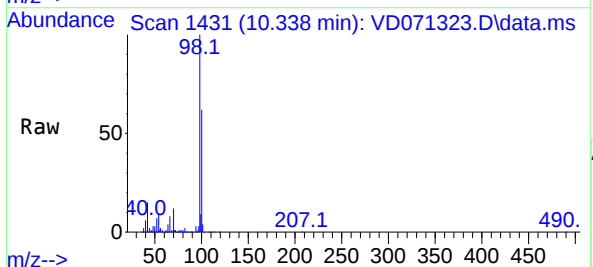


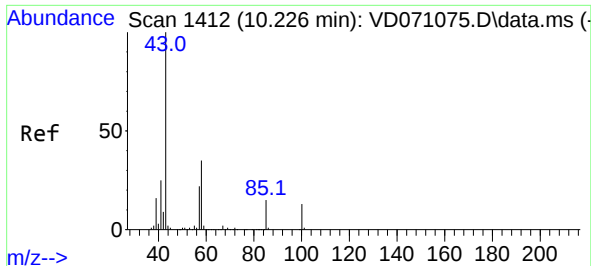
Tgt Ion: 88 Resp: 58  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.9 43.3#  
58 0.0 56.3 84.5#



#50  
Toluene-d8  
Concen: 53.675 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.000 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion: 98 Resp: 736900  
Ion Ratio Lower Upper  
98 100  
100 64.7 51.8 77.6

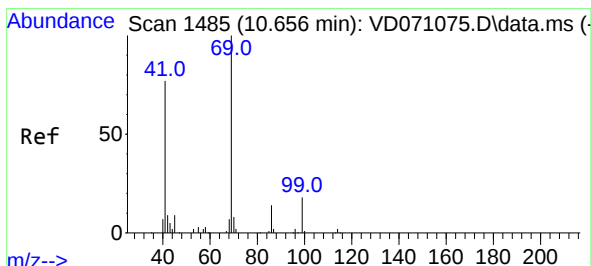
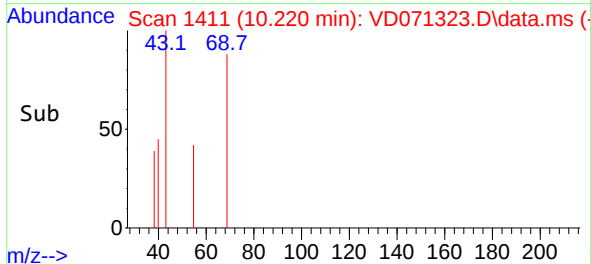
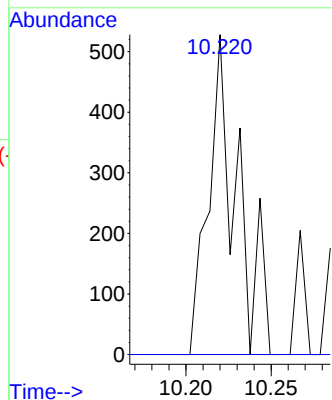
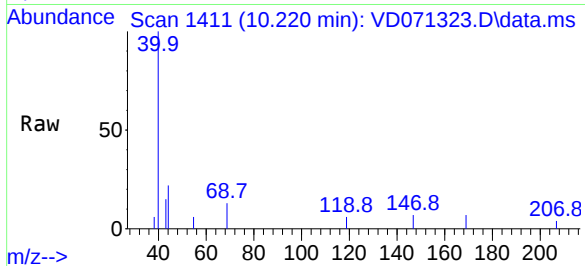




#51  
4-Methyl-2-Pentanone  
Concen: 30.863 ug/l  
RT: 10.220 min Scan# 1412  
Delta R.T. -0.006 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

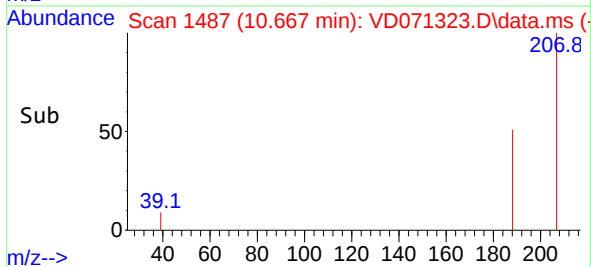
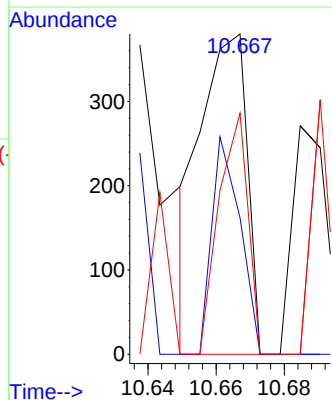
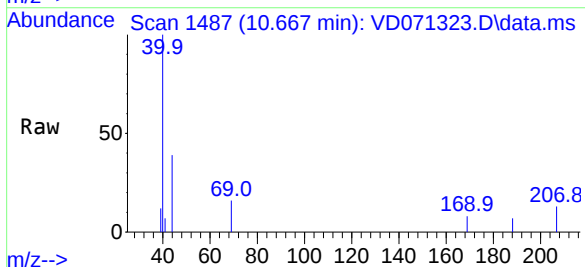
Instrument :  
MSVOA\_D  
ClientSampleId :

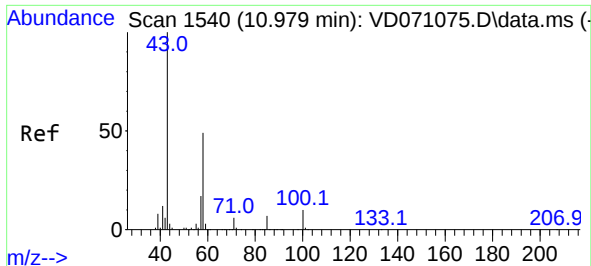
Tgt Ion: 43 Resp: 622  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#



#56  
Ethyl methacrylate  
Concen: 6.055 ug/l  
RT: 10.667 min Scan# 1487  
Delta R.T. 0.011 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion: 69 Resp: 355  
Ion Ratio Lower Upper  
69 100  
41 41.7 50.2 75.2#  
39 47.9 19.8 29.8#

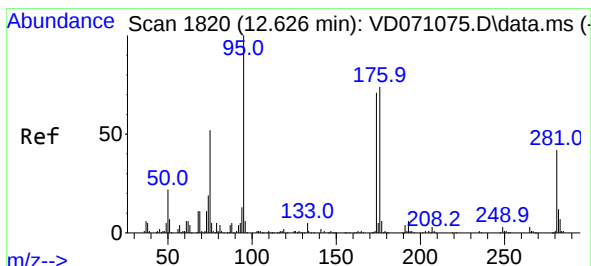
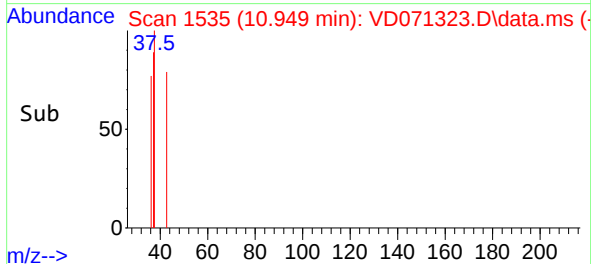
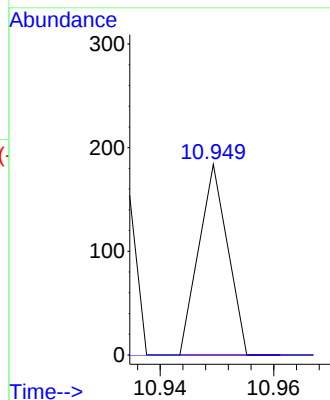
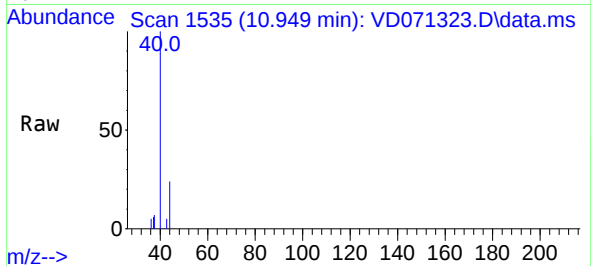




#59  
2-Hexanone  
Concen: 34.603 ug/l  
RT: 10.949 min Scan# 11  
Delta R.T. -0.030 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

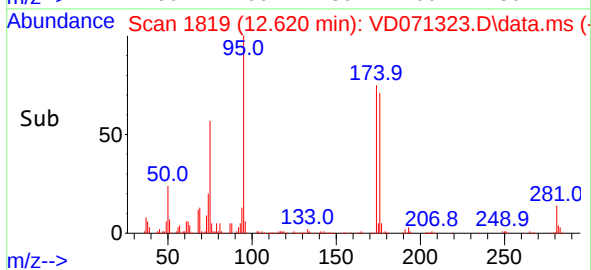
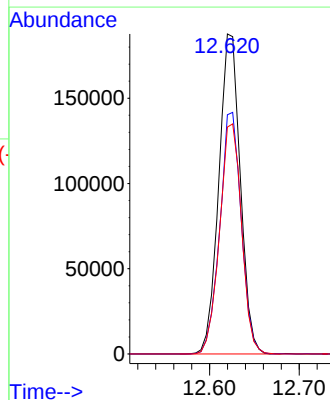
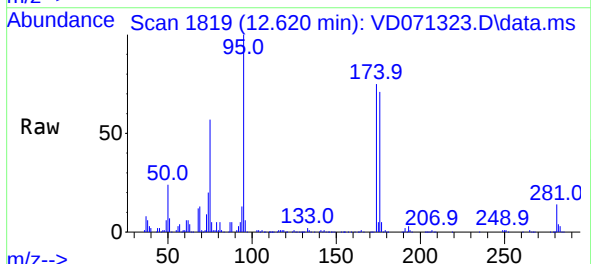
Instrument :  
MSVOA\_D  
ClientSampleId :

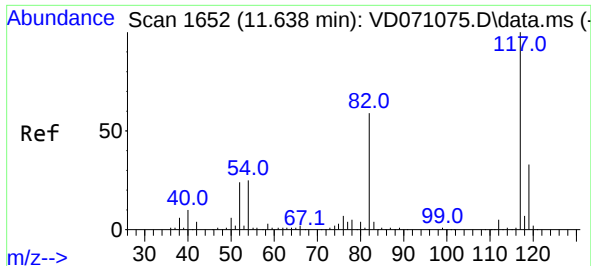
Tgt Ion: 43 Resp: 65  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.7 86.1#



#62  
4-Bromofluorobenzene  
Concen: 65.530 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion: 95 Resp: 311853  
Ion Ratio Lower Upper  
95 100  
174 75.4 0.0 159.4  
176 73.5 0.0 154.0

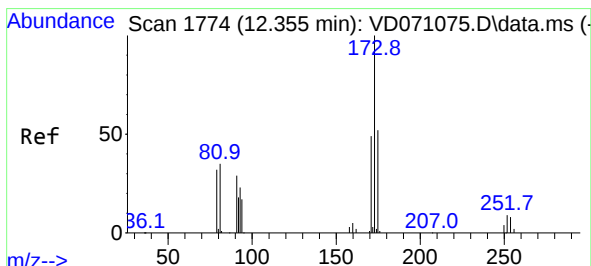
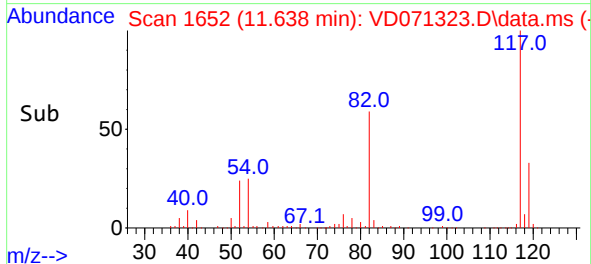
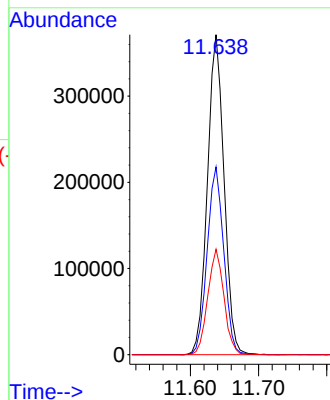
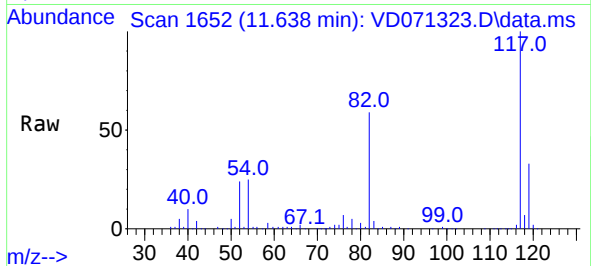




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

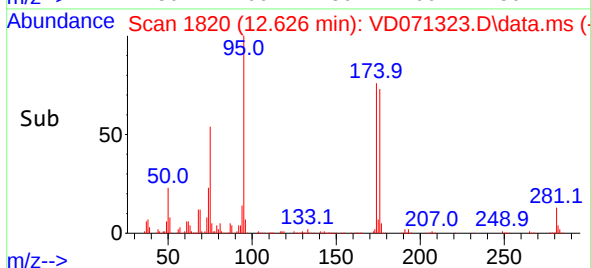
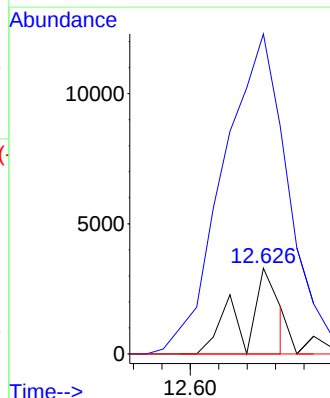
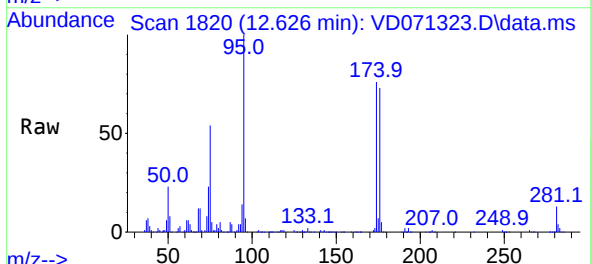
Instrument :  
MSVOA\_D  
ClientSampleId :

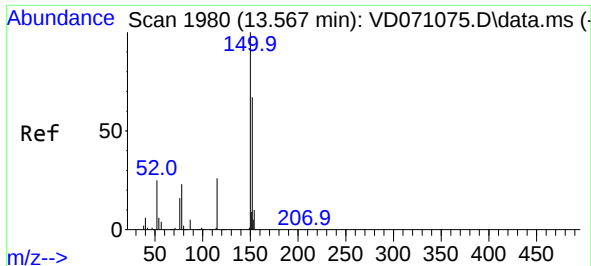
Tgt Ion:117 Resp: 629966  
Ion Ratio Lower Upper  
117 100  
82 58.6 44.7 67.1  
119 32.9 26.2 39.4



#71  
Bromoform  
Concen: 1.285 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.271 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion:173 Resp: 2842  
Ion Ratio Lower Upper  
173 100  
175 601.1 24.1 72.2#  
254 0.0 0.1 0.1#

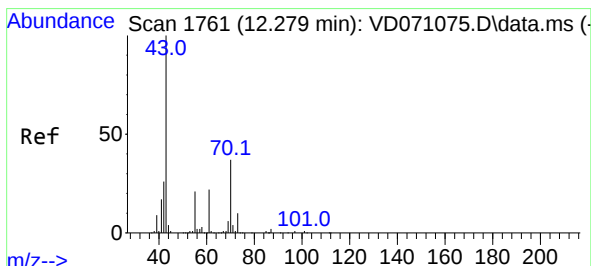
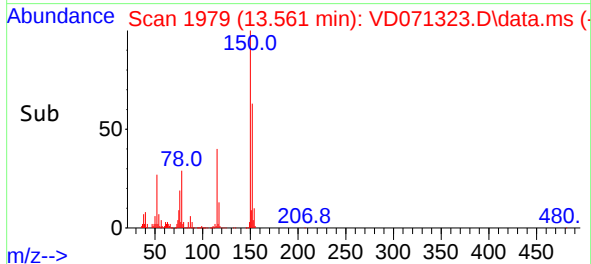
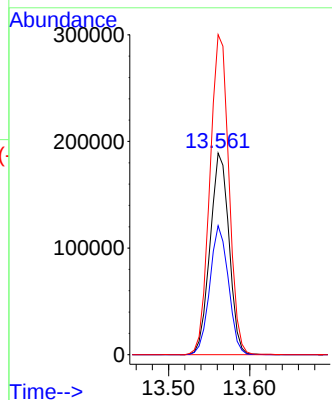
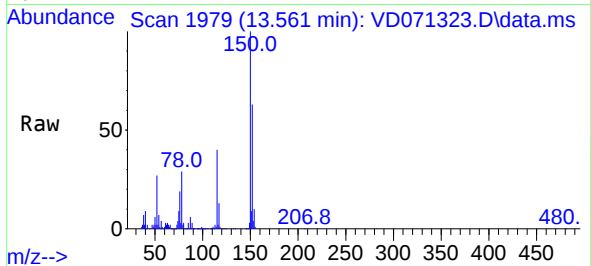




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1980  
Delta R.T. -0.006 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

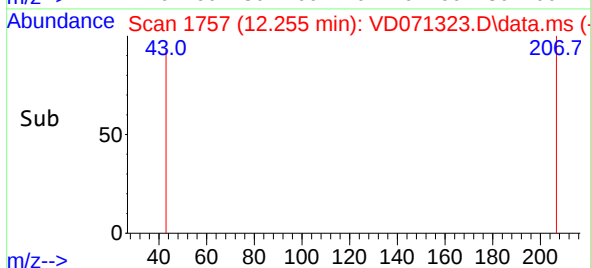
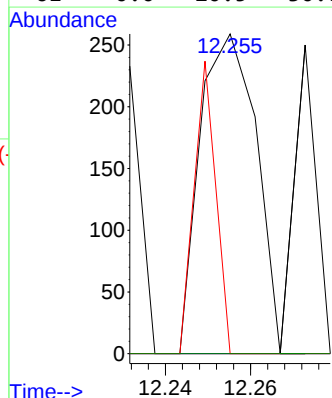
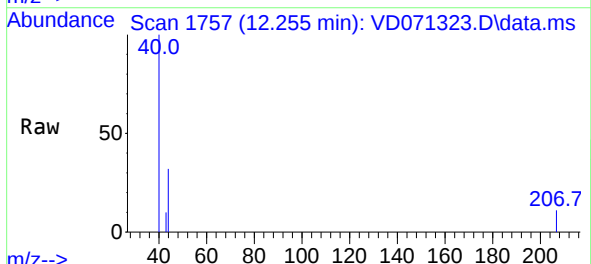
Instrument :  
MSVOA\_D  
ClientSampleId :

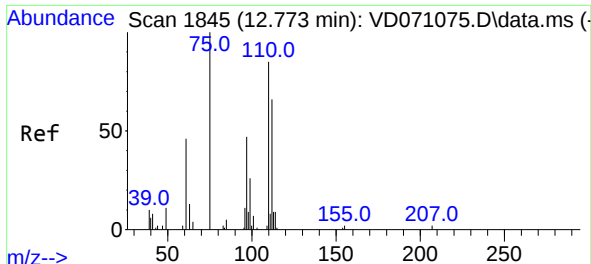
Tgt Ion:152 Resp: 306976  
Ion Ratio Lower Upper  
152 100  
115 62.7 29.8 89.3  
150 158.8 0.0 349.2



#74  
N-ethyl acetate  
Concen: 5.736 ug/l  
RT: 12.255 min Scan# 1757  
Delta R.T. -0.024 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion: 43 Resp: 237  
Ion Ratio Lower Upper  
43 100  
70 0.0 36.6 55.0#  
55 35.4 22.5 33.7#  
61 0.0 20.5 30.7#

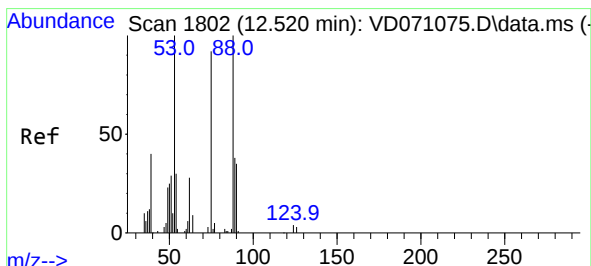
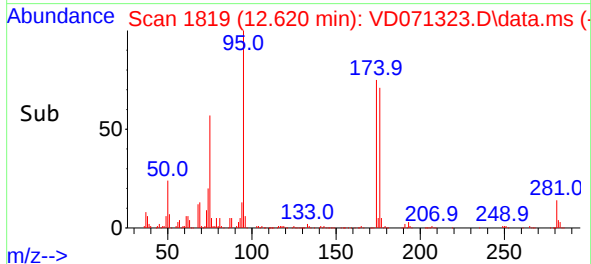
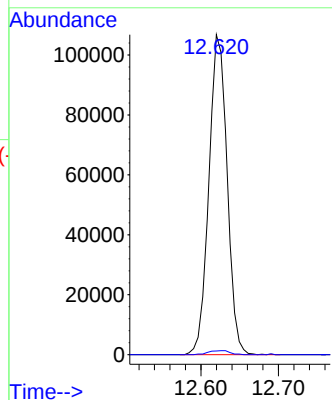
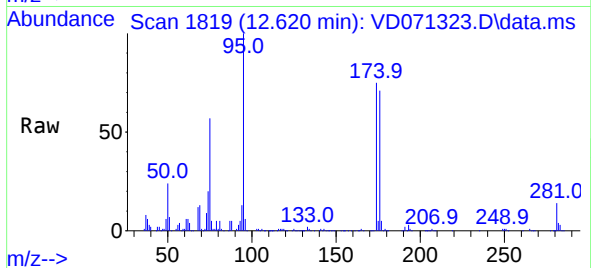




#76  
1,2,3-Trichloropropane  
Concen: 59.699 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 174605  
Ion Ratio Lower Upper  
75 100  
77 1.5 158.4 475.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 129.283 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD071323.D  
Acq: 14 Dec 2021 16:24

Tgt Ion: 75 Resp: 174605  
Ion Ratio Lower Upper  
75 100  
53 0.0 62.6 94.0#  
89 0.1 34.5 51.7#

