

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121121\  
 Data File : VD071281.D  
 Acq On : 11 Dec 2021 20:34  
 Operator : VA/SY  
 Sample : M5017-29  
 Misc : 5.04G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

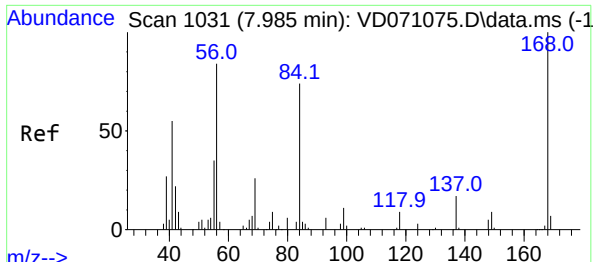
Quant Time: Dec 12 18:52:59 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 142130              | 50.000    | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 252384              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 292617              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567         | 152  | 153113              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 99933               | 59.922    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 119.840% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 86249               | 53.666    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 107.340% |           |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 321793              | 52.615    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 105.220% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.626         | 95   | 147430              | 69.541    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 139.080% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 10) Methyl Iodide             | 4.297          | 142  | 56                  | 4.591     | ug/l # | 40       |
| 11) Tert butyl alcohol        | 5.179          | 59   | 3909                | Below Cal | #      | 71       |
| 16) Acetone                   | 4.156          | 43   | 3097                | 36.928    | ug/l   | 91       |
| 20) Methylene Chloride        | 4.956          | 84   | 14328               | 4.733     | ug/l   | 97       |
| 23) Vinyl Acetate             | 6.550          | 43   | 67                  | 27.240    | ug/l # | 72       |
| 25) 2-Butanone                | 7.220          | 43   | 124                 | 28.574    | ug/l # | 45       |
| 29) Tetrahydrofuran           | 7.555          | 42   | 306                 | 1.156     | ug/l # | 34       |
| 31) Cyclohexane               | 7.979          | 56   | 3536                | 1.246     | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 7.967          | 75   | 14145               | 5.997     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 15304               | 6.582     | ug/l # | 18       |
| 41) Methacrylonitrile         | 7.561          | 41   | 189                 | Below Cal | #      | 34       |
| 43) Isopropyl Acetate         | 8.585          | 43   | 114                 | 5.268     | ug/l # | 47       |
| 49) 1,4-Dioxane               | 9.573          | 88   | 63                  | 7.465     | ug/l # | 23       |
| 51) 4-Methyl-2-Pentanone      | 10.208         | 43   | 680                 | 31.171    | ug/l # | 34       |
| 56) Ethyl methacrylate        | 10.767         | 69   | 62                  | 6.003     | ug/l # | 1        |
| 59) 2-Hexanone                | 10.932         | 43   | 95                  | 34.668    | ug/l # | 22       |
| 74) N-amyl acetate            | 12.267         | 43   | 137                 | 5.741     | ug/l # | 40       |
| 76) 1,2,3-Trichloropropane    | 12.626         | 75   | 84508               | 57.930    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.626         | 75   | 84508               | 125.622   | ug/l # | 18       |
| 95) Naphthalene               | 15.384         | 128  | 5628                | 1.259     | ug/l # | 92       |
| -----                         |                |      |                     |           |        |          |

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

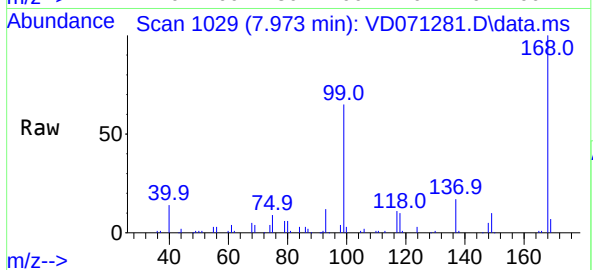
Quant Time: Dec 12 18:52:59 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 29 17:54:09 2021  
Response via : Initial Calibration



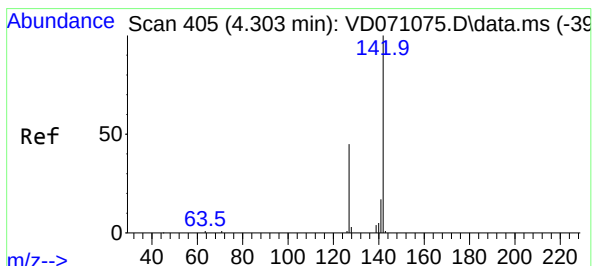
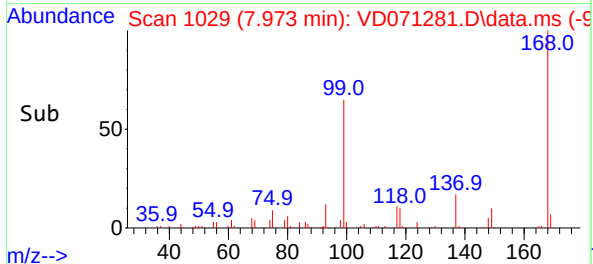
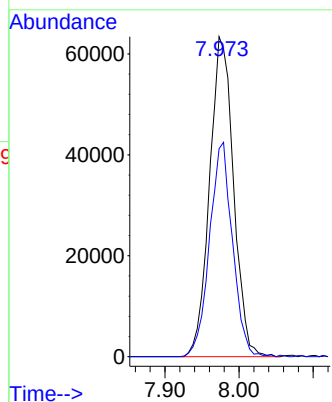


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 10  
Delta R.T. -0.012 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Instrument :  
MSVOA\_D  
ClientSampleId :

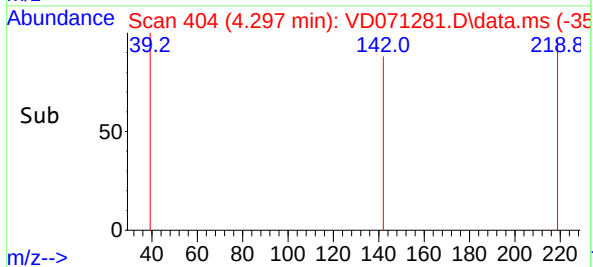
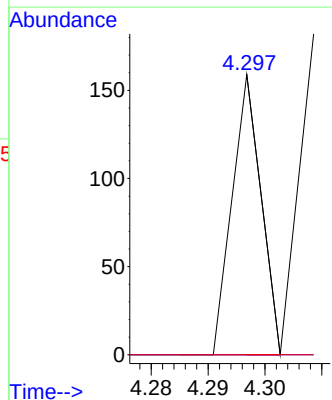
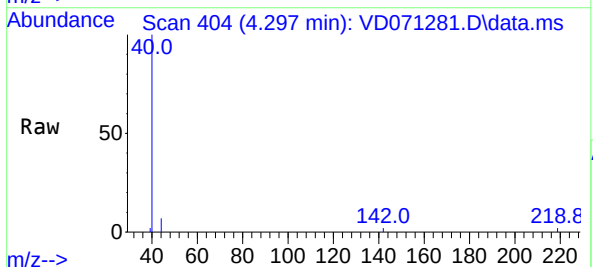


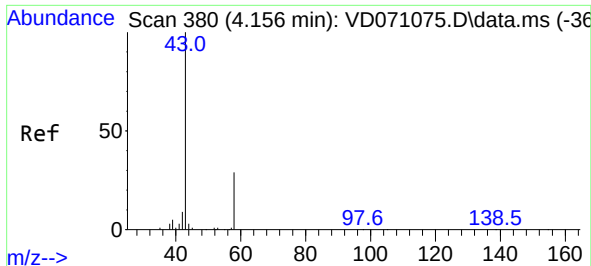
Tgt Ion:168 Resp: 142130  
Ion Ratio Lower Upper  
168 100  
99 65.0 46.6 69.8



#10  
Methyl Iodide  
Concen: 4.591 ug/l  
RT: 4.297 min Scan# 404  
Delta R.T. -0.006 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Tgt Ion:142 Resp: 56  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.0 52.4#  
141 0.0 12.0 18.0#

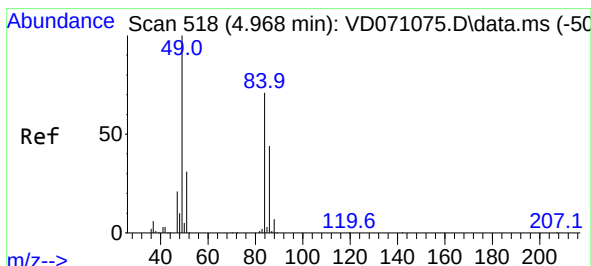
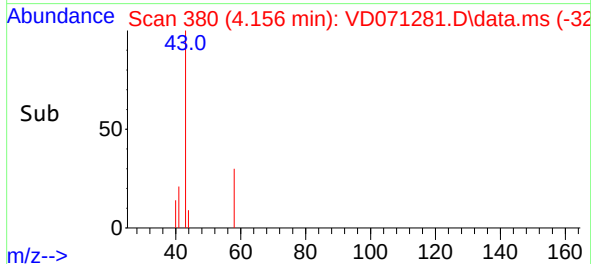
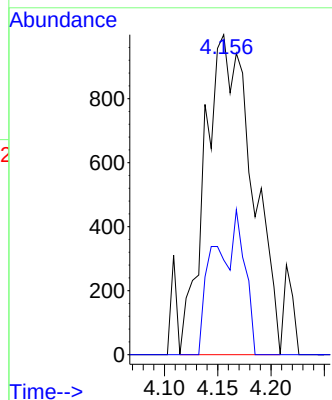
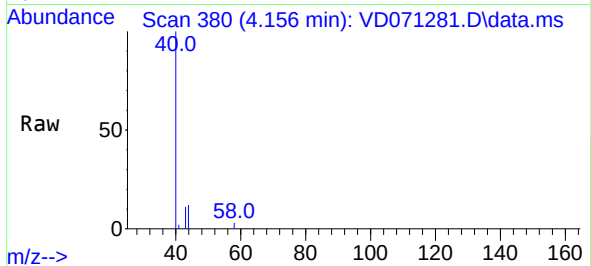




#16  
Acetone  
Concen: 36.928 ug/l  
RT: 4.156 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

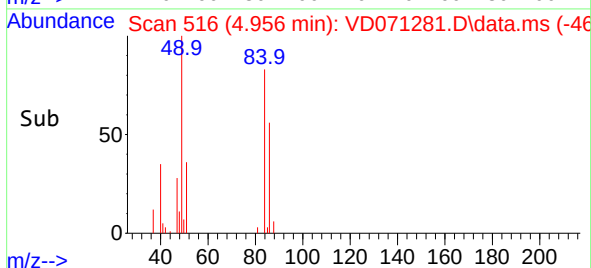
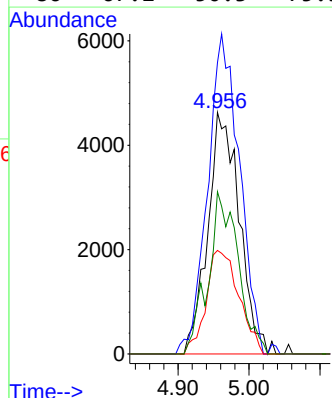
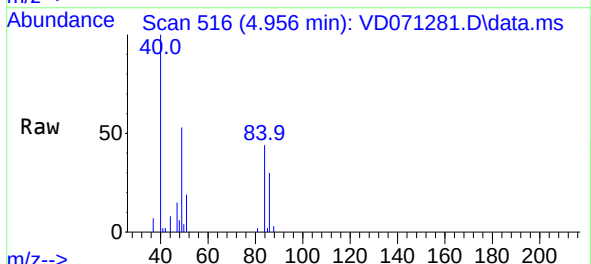
Instrument :  
MSVOA\_D  
ClientSampleId :

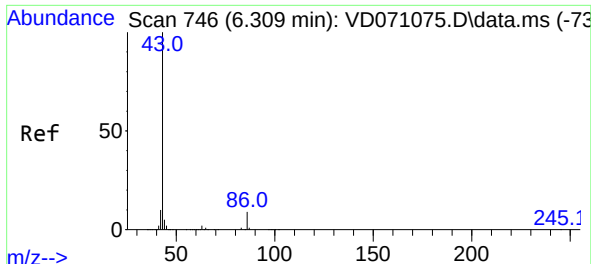
Tgt Ion: 43 Resp: 3097  
Ion Ratio Lower Upper  
43 100  
58 29.6 27.8 41.8



#20  
Methylene Chloride  
Concen: 4.733 ug/l  
RT: 4.956 min Scan# 516  
Delta R.T. -0.012 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Tgt Ion: 84 Resp: 14328  
Ion Ratio Lower Upper  
84 100  
49 120.6 95.8 143.6  
51 42.9 30.9 46.3  
86 67.2 50.3 75.5





#23

Vinyl Acetate

Concen: 27.240 ug/l

RT: 6.550 min Scan# 746

Delta R.T. 0.241 min

Lab File: VD071281.D

Acq: 11 Dec 2021 20:34

Instrument :

MSVOA\_D

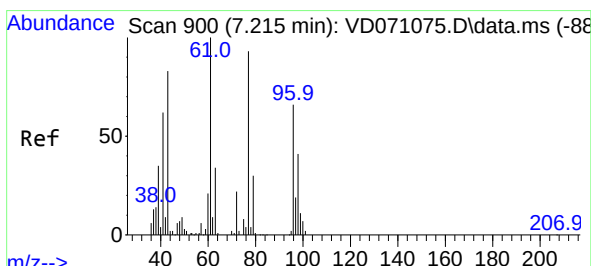
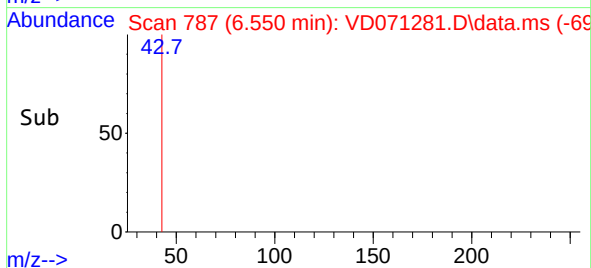
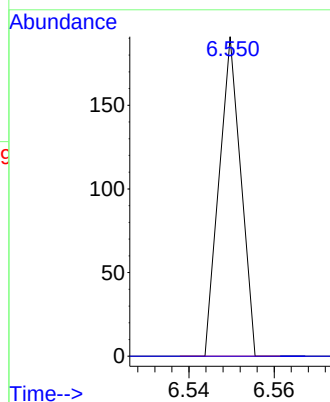
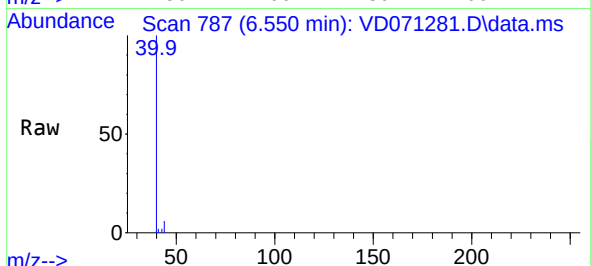
ClientSampleId :

Tgt Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#



#25

2-Butanone

Concen: 28.574 ug/l

RT: 7.220 min Scan# 901

Delta R.T. 0.005 min

Lab File: VD071281.D

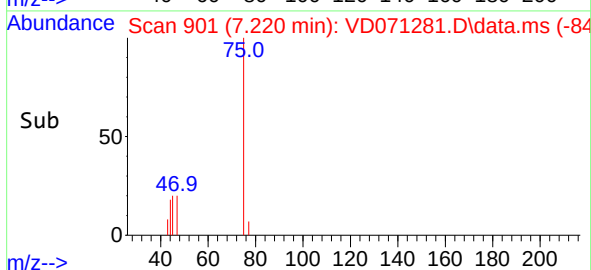
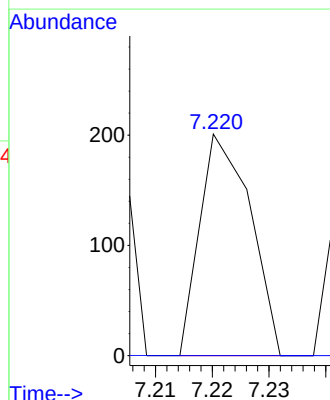
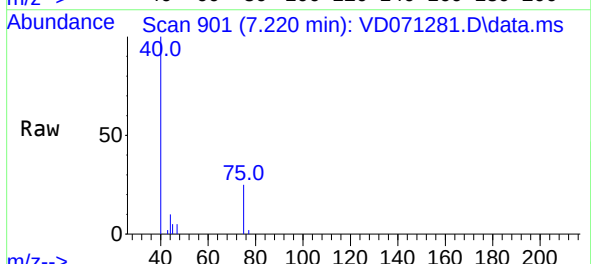
Acq: 11 Dec 2021 20:34

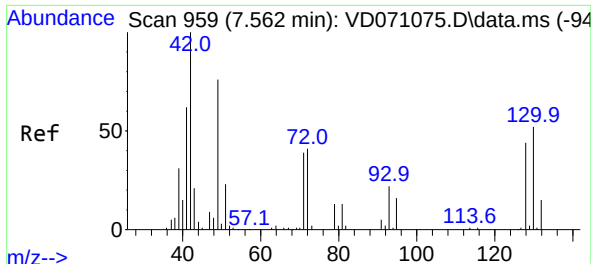
Tgt Ion: 43 Resp: 124

Ion Ratio Lower Upper

43 100

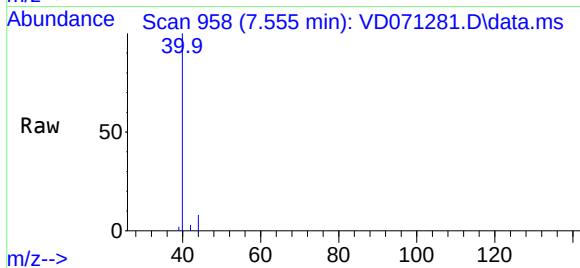
72 0.0 23.8 35.6#



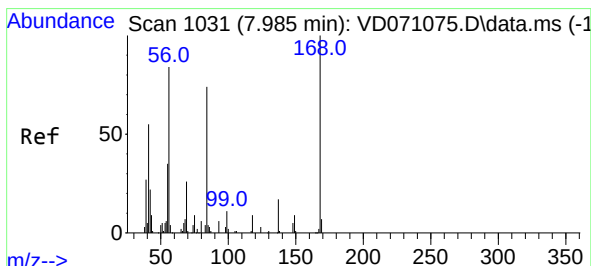
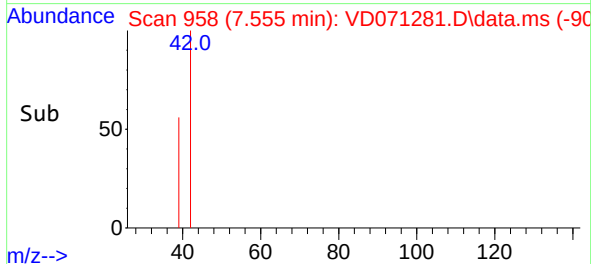
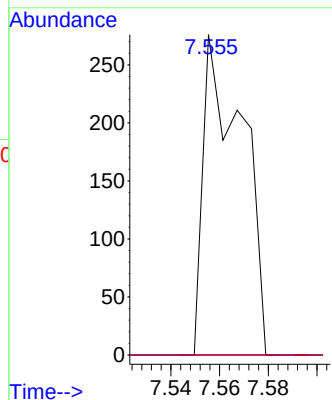


#29  
Tetrahydrofuran  
Concen: 1.156 ug/l  
RT: 7.555 min Scan# 91  
Delta R.T. -0.007 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Instrument :  
MSVOA\_D  
ClientSampleId :

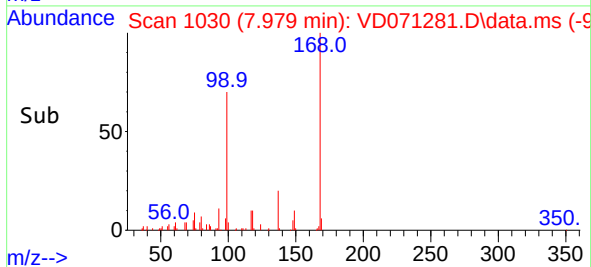
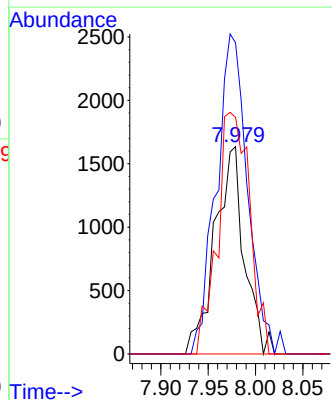
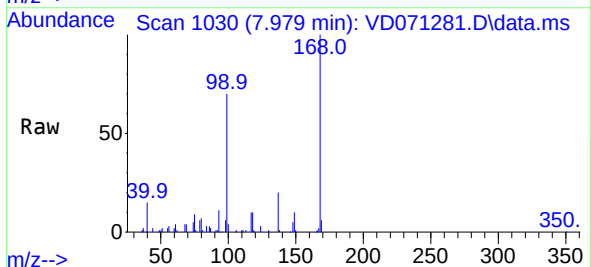


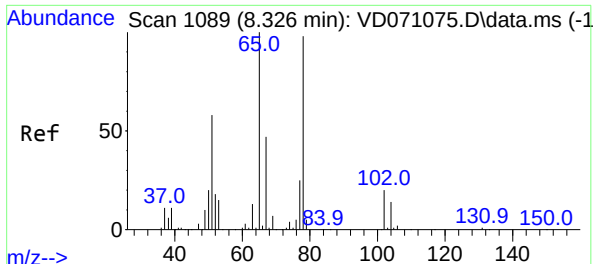
Tgt Ion: 42 Resp: 306  
Ion Ratio Lower Upper  
42 100  
72 0.0 33.7 50.5#  
71 0.0 32.7 49.1#



#31  
Cyclohexane  
Concen: 1.246 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Tgt Ion: 56 Resp: 3536  
Ion Ratio Lower Upper  
56 100  
69 150.1 25.9 38.9#  
84 114.1 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 59.922 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071281.D

Acq: 11 Dec 2021 20:34

Instrument :

MSVOA\_D

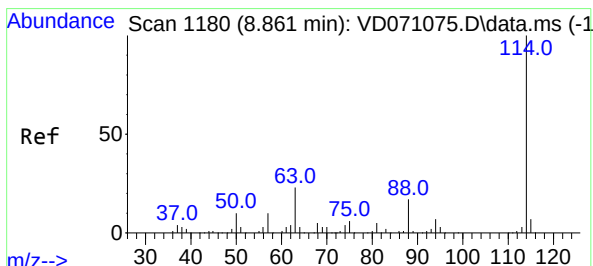
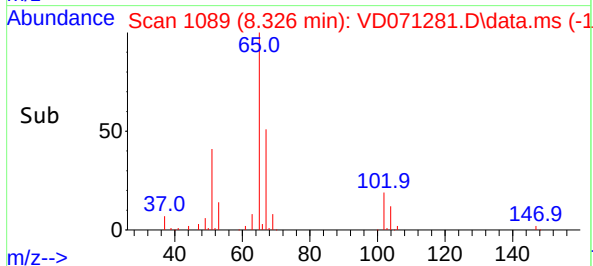
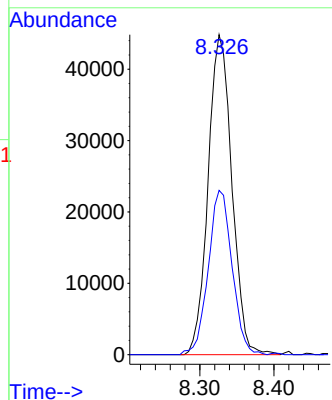
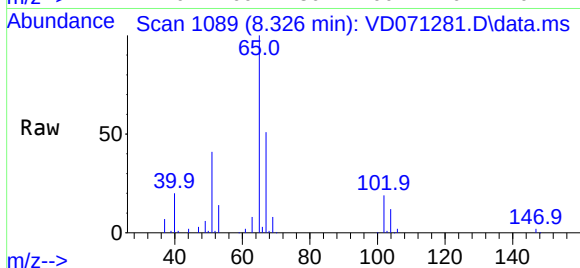
ClientSampleId :

Tgt Ion: 65 Resp: 99933

Ion Ratio Lower Upper

65 100

67 51.4 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: VD071281.D

Acq: 11 Dec 2021 20:34

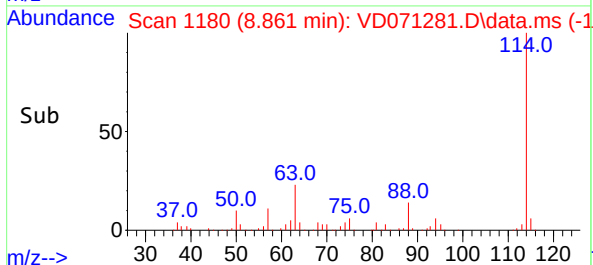
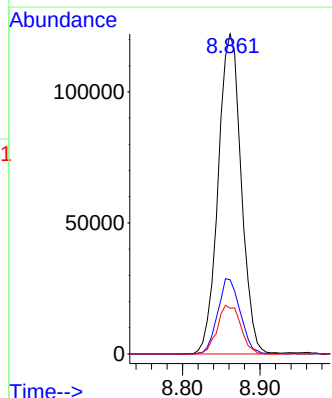
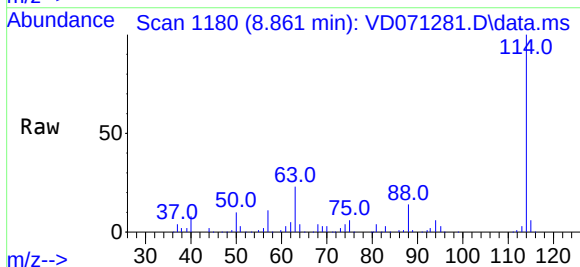
Tgt Ion: 114 Resp: 252384

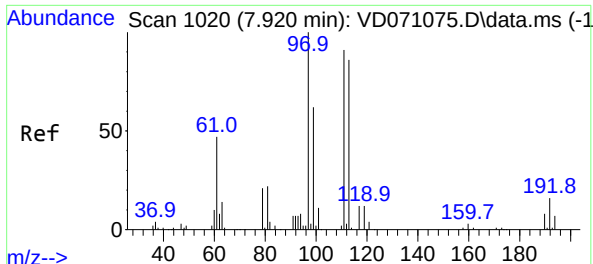
Ion Ratio Lower Upper

114 100

63 23.2 0.0 41.8

88 14.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 53.666 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

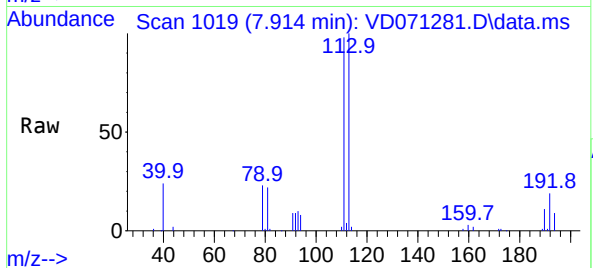
Lab File: VD071281.D

Acq: 11 Dec 2021 20:34

Instrument :

MSVOA\_D

ClientSampleId :



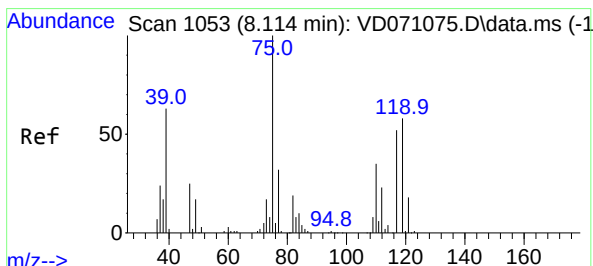
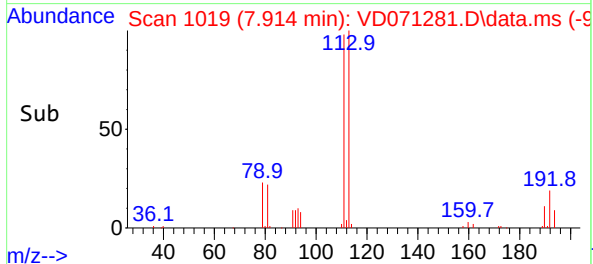
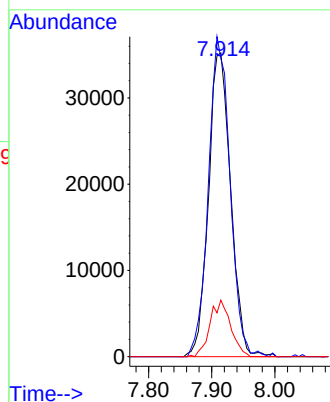
Tgt Ion:113 Resp: 86249

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

192 17.3 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.997 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.147 min

Lab File: VD071281.D

Acq: 11 Dec 2021 20:34

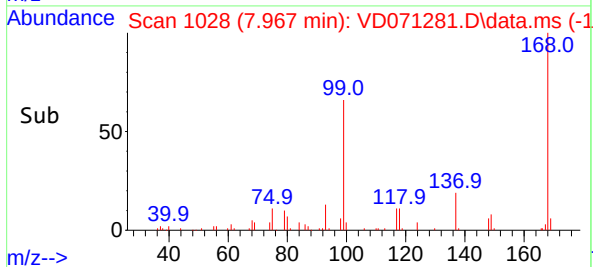
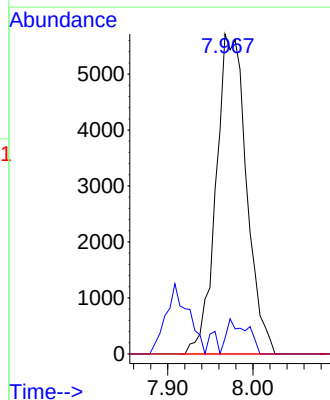
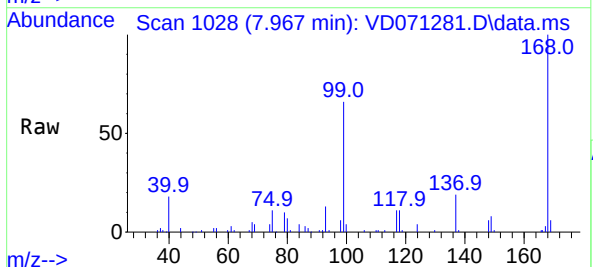
Tgt Ion: 75 Resp: 14145

Ion Ratio Lower Upper

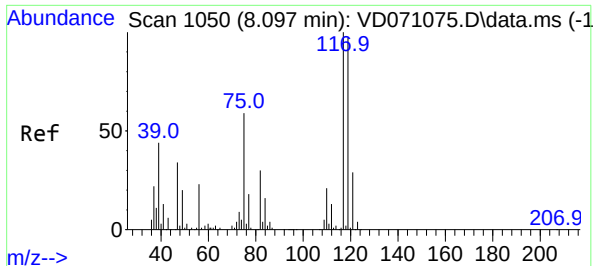
75 100

110 7.4 17.8 53.4#

77 0.0 24.8 37.2#

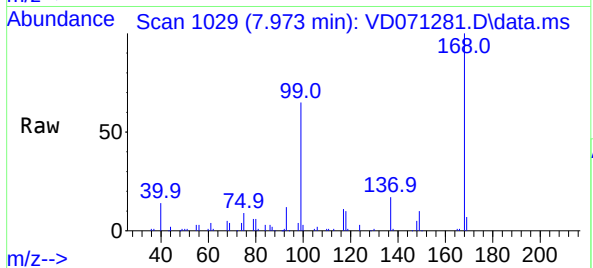




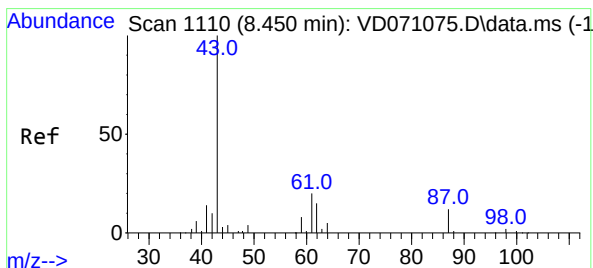
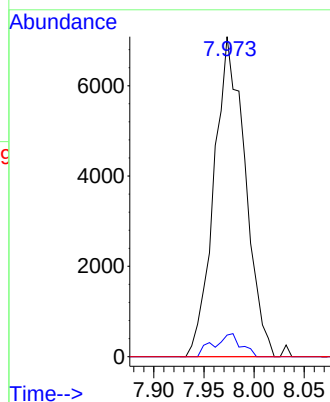
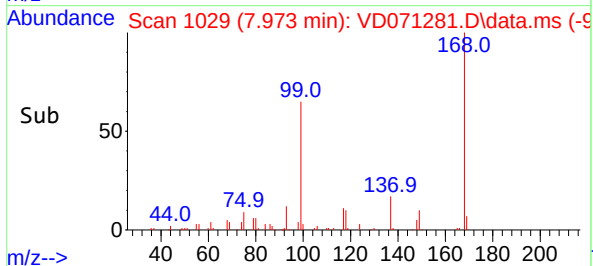


#38  
Carbon Tetrachloride  
Concen: 6.582 ug/l  
RT: 7.973 min Scan# 1103  
Delta R.T. -0.124 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Instrument :  
MSVOA\_D  
ClientSampleId :

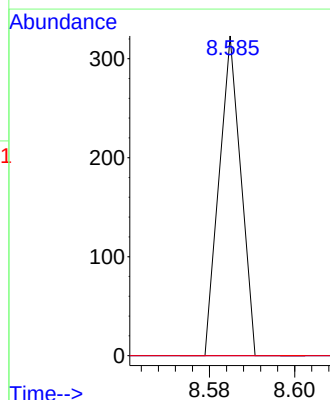
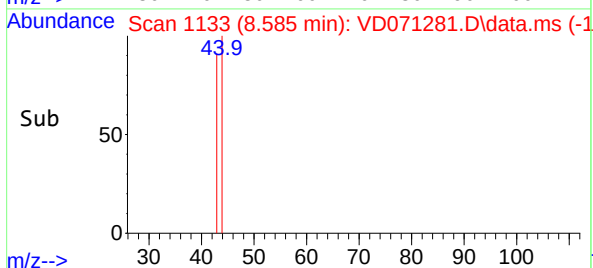
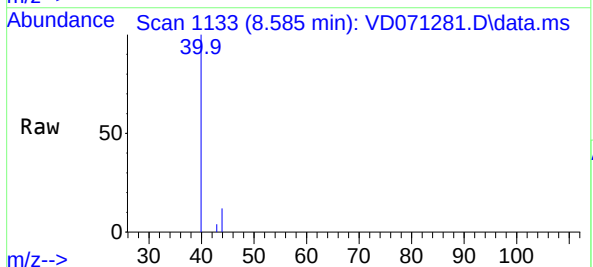


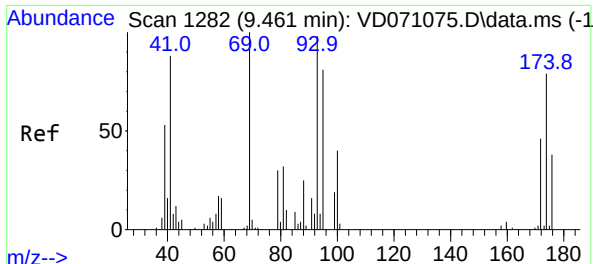
Tgt Ion:117 Resp: 15304  
Ion Ratio Lower Upper  
117 100  
119 6.8 75.8 113.6#  
121 0.0 23.6 35.4#



#43  
Isopropyl Acetate  
Concen: 5.268 ug/l  
RT: 8.585 min Scan# 1133  
Delta R.T. 0.135 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

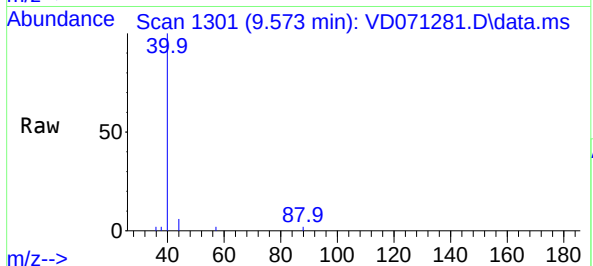
Tgt Ion: 43 Resp: 114  
Ion Ratio Lower Upper  
43 100  
61 0.0 28.2 42.4#  
87 0.0 10.7 16.1#



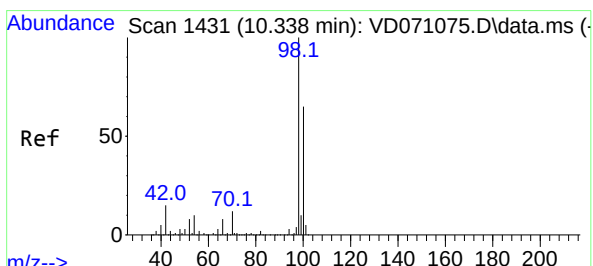
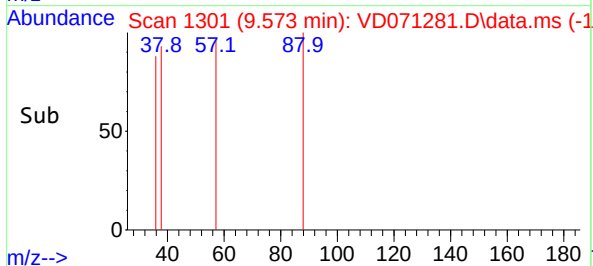
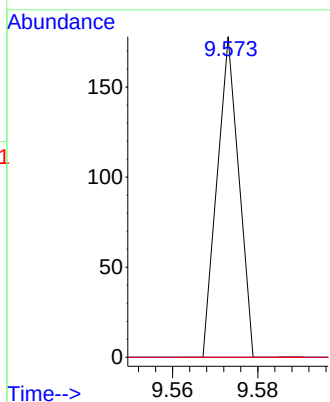


#49  
1,4-Dioxane  
Concen: 7.465 ug/l  
RT: 9.573 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Instrument :  
MSVOA\_D  
ClientSampleId :

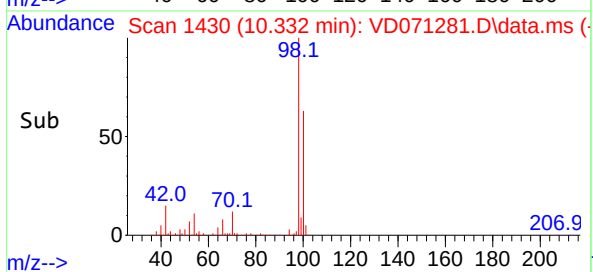
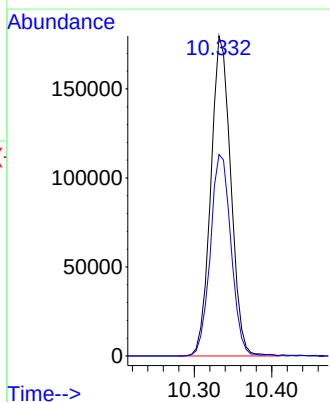
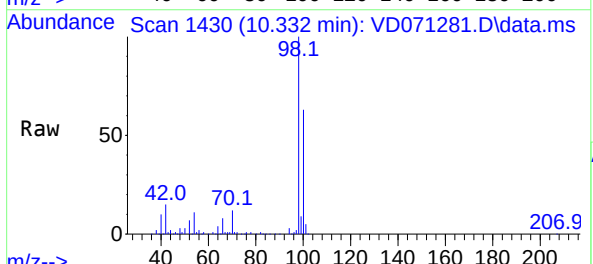


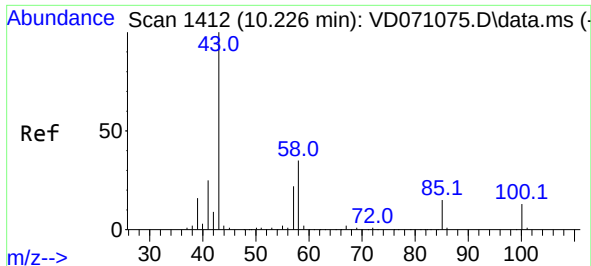
Tgt Ion: 88 Resp: 63  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.9 43.3#  
58 0.0 56.3 84.5#



#50  
Toluene-d8  
Concen: 52.615 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.006 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Tgt Ion: 98 Resp: 321793  
Ion Ratio Lower Upper  
98 100  
100 65.1 51.8 77.6

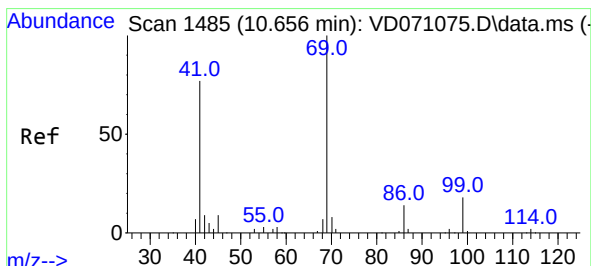
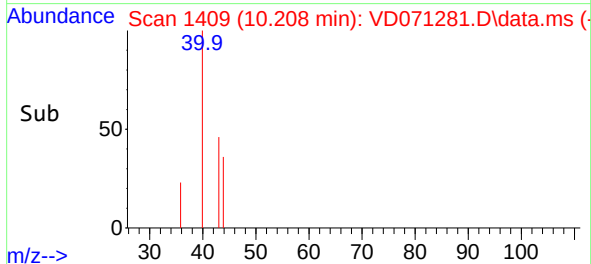
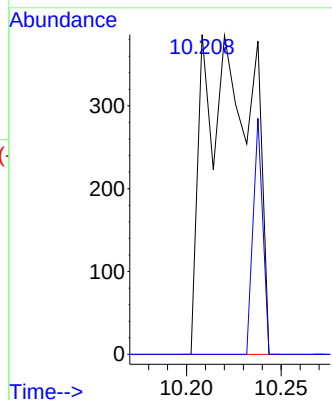
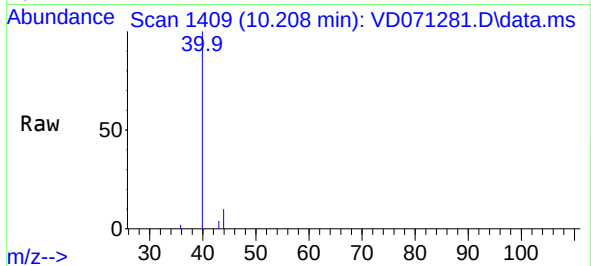




#51  
4-Methyl-2-Pentanone  
Concen: 31.171 ug/l  
RT: 10.208 min Scan# 1412  
Delta R.T. -0.018 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

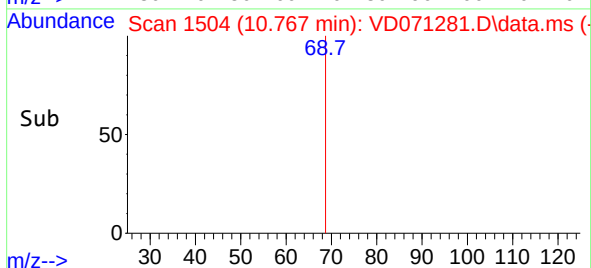
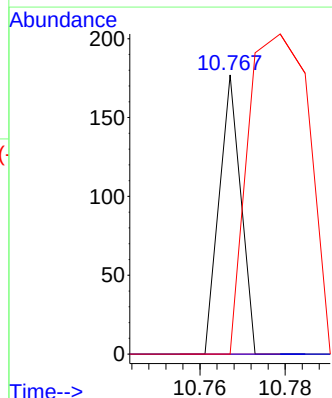
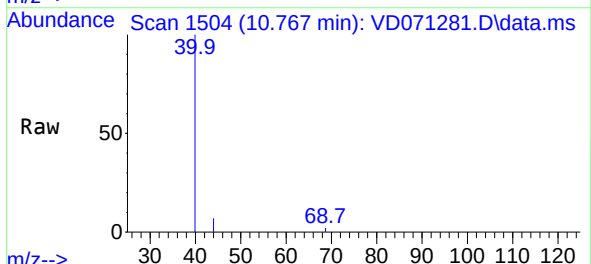
Instrument :  
MSVOA\_D  
ClientSampleId :

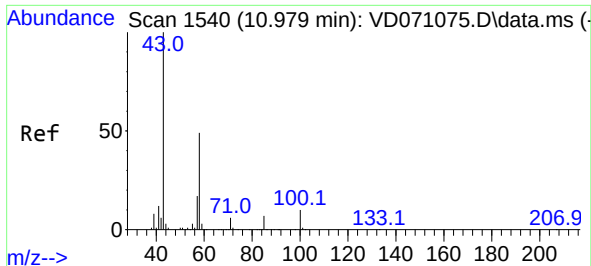
Tgt Ion: 43 Resp: 680  
Ion Ratio Lower Upper  
43 100  
58 0.0 33.1 49.7#



#56  
Ethyl methacrylate  
Concen: 6.003 ug/l  
RT: 10.767 min Scan# 1504  
Delta R.T. 0.111 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Tgt Ion: 69 Resp: 62  
Ion Ratio Lower Upper  
69 100  
41 0.0 50.2 75.2#  
39 325.8 19.8 29.8#





#59

2-Hexanone

Concen: 34.668 ug/l

RT: 10.932 min Scan# 1532

Delta R.T. -0.047 min

Lab File: VD071281.D

Acq: 11 Dec 2021 20:34

Instrument :

MSVOA\_D

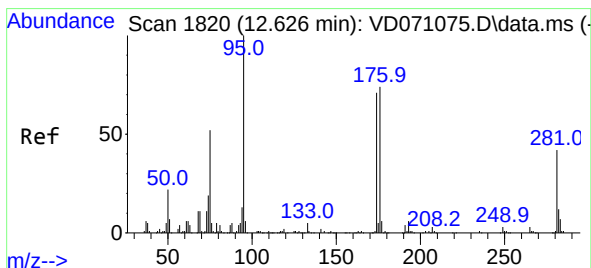
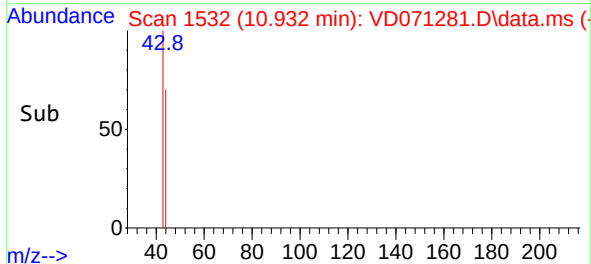
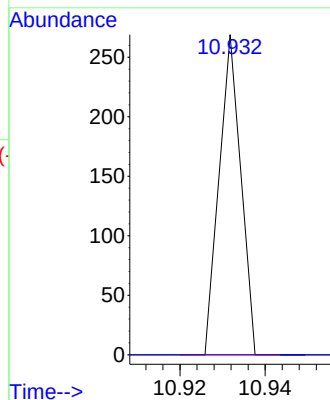
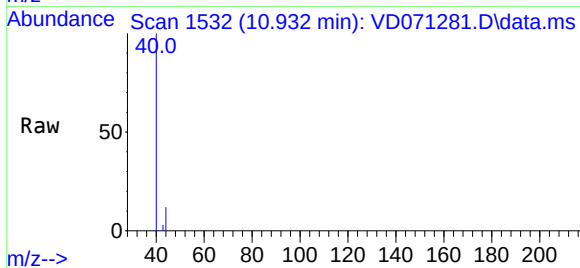
ClientSampleId :

Tgt Ion: 43 Resp: 95

Ion Ratio Lower Upper

43 100

58 0.0 28.7 86.1#



#62

4-Bromofluorobenzene

Concen: 69.541 ug/l

RT: 12.626 min Scan# 1820

Delta R.T. -0.000 min

Lab File: VD071281.D

Acq: 11 Dec 2021 20:34

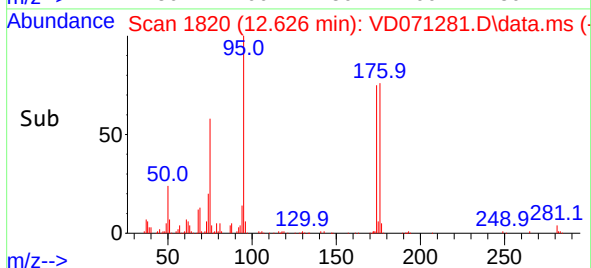
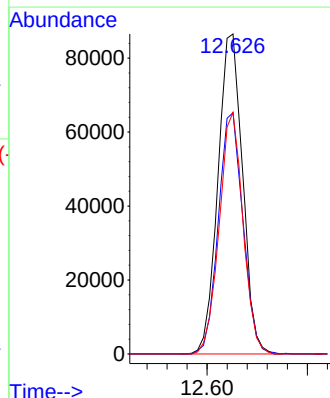
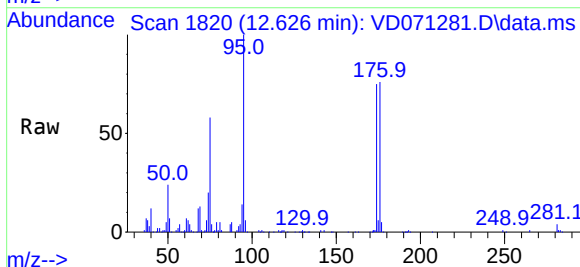
Tgt Ion: 95 Resp: 147430

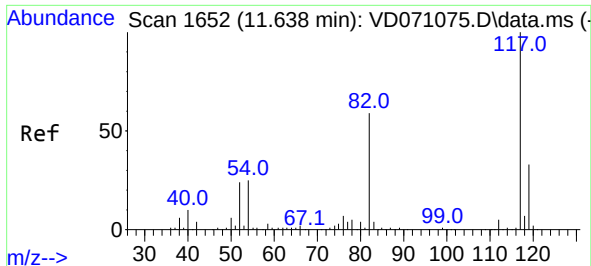
Ion Ratio Lower Upper

95 100

174 75.2 0.0 159.4

176 72.7 0.0 154.0

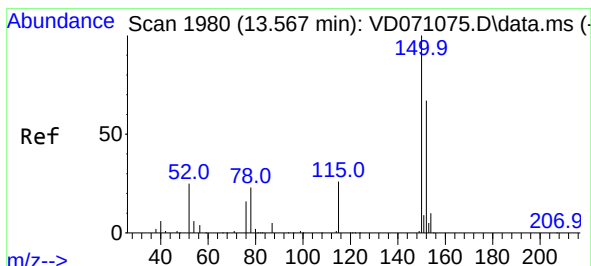
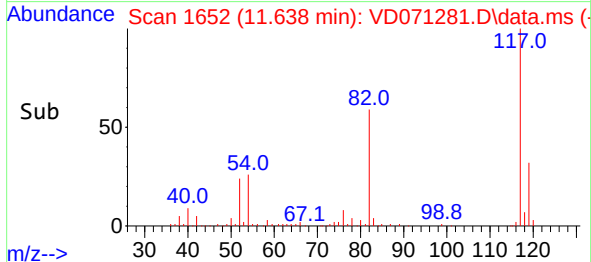
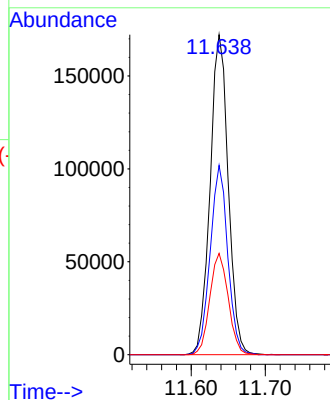
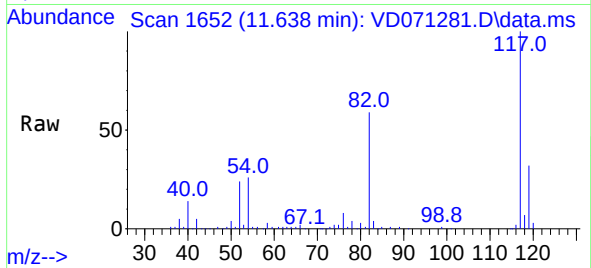




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

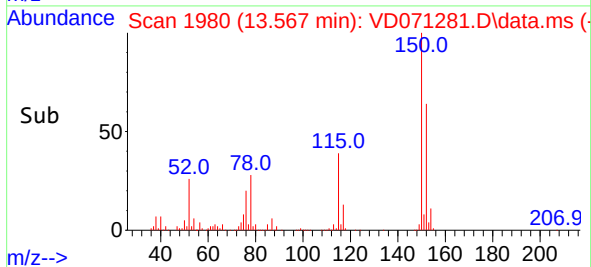
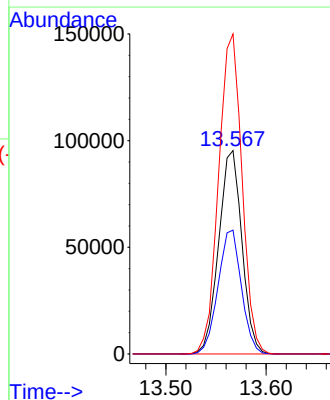
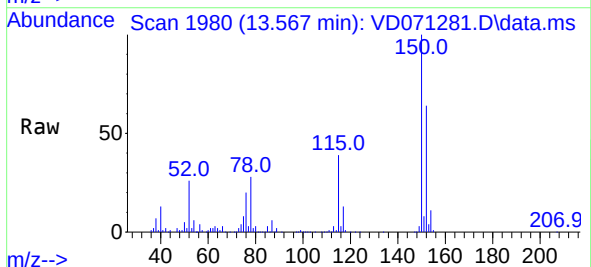
Instrument :  
MSVOA\_D  
ClientSampleId :

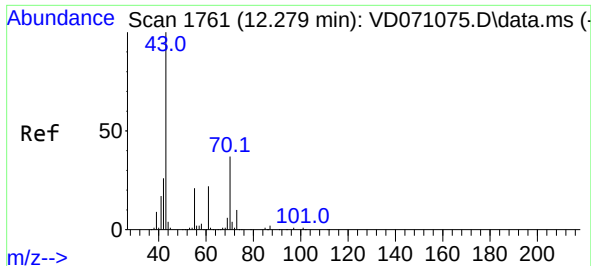
Tgt Ion:117 Resp: 292617  
Ion Ratio Lower Upper  
117 100  
82 59.2 44.7 67.1  
119 31.6 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

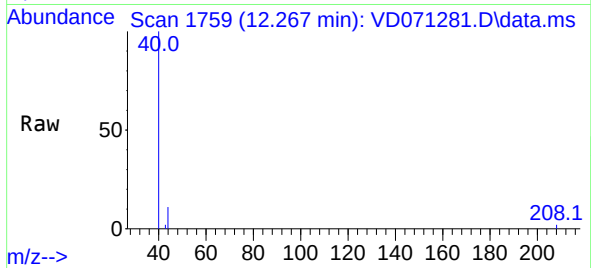
Tgt Ion:152 Resp: 153113  
Ion Ratio Lower Upper  
152 100  
115 61.3 29.8 89.3  
150 158.3 0.0 349.2



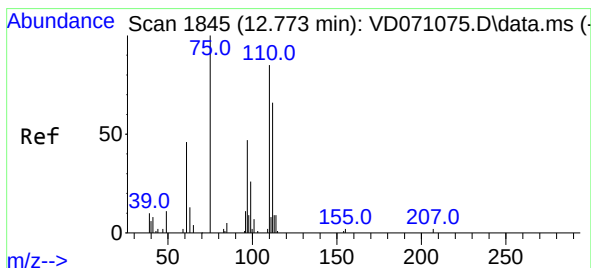
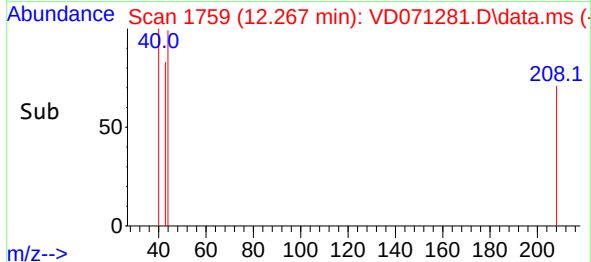
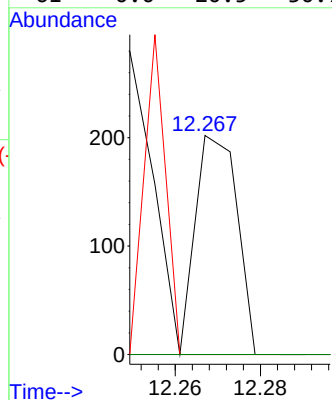


#74  
N-amy1 acetate  
Concen: 5.741 ug/l  
RT: 12.267 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Instrument :  
MSVOA\_D  
ClientSampleId :

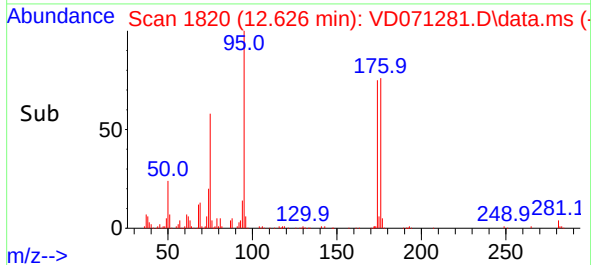
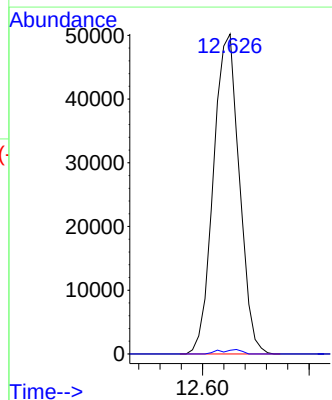
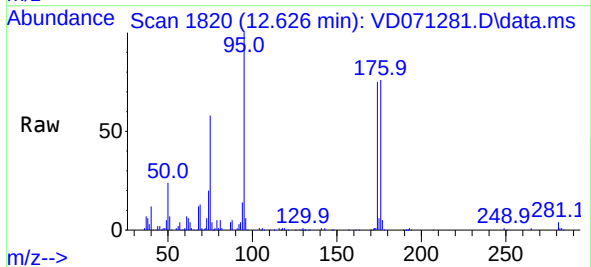


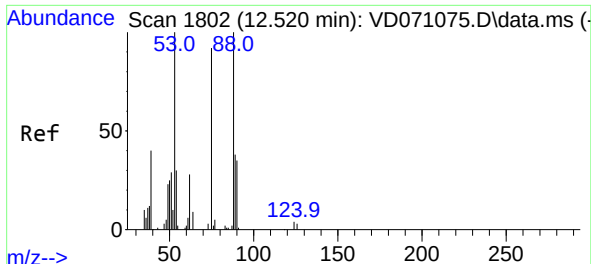
Tgt Ion: 43 Resp: 137  
Ion Ratio Lower Upper  
43 100  
70 0.0 36.6 55.0#  
55 0.0 22.5 33.7#  
61 0.0 20.5 30.7#



#76  
1,2,3-Trichloropropane  
Concen: 57.930 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Tgt Ion: 75 Resp: 84508  
Ion Ratio Lower Upper  
75 100  
77 1.2 158.4 475.3#

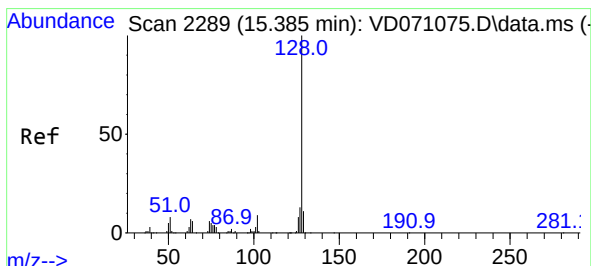
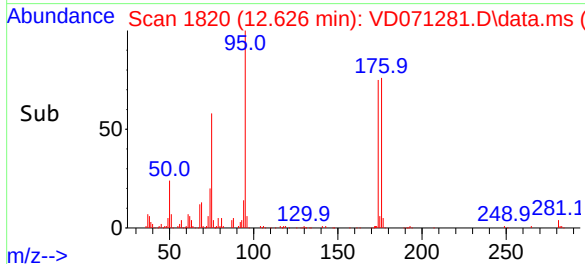
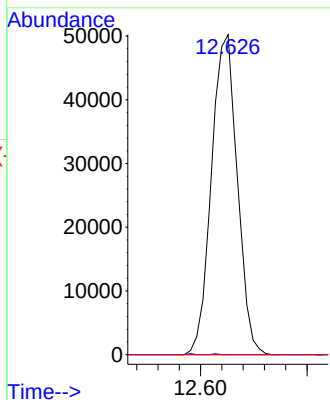
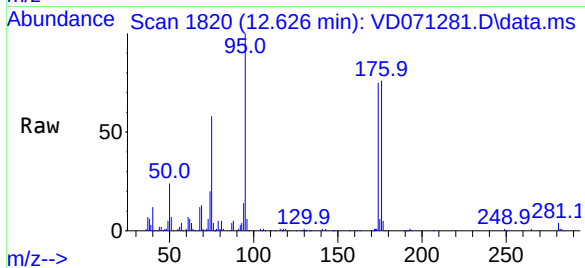




#81  
trans-1,4-Dichloro-2-butene  
Concen: 125.622 ug/l  
RT: 12.626 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 84508  
Ion Ratio Lower Upper  
75 100  
53 0.1 62.6 94.0#  
89 0.0 34.5 51.7#



#95  
Naphthalene  
Concen: 1.259 ug/l  
RT: 15.384 min Scan# 2289  
Delta R.T. -0.001 min  
Lab File: VD071281.D  
Acq: 11 Dec 2021 20:34

Tgt Ion:128 Resp: 5628  
Ion Ratio Lower Upper  
128 100  
127 9.1 10.7 16.1#  
129 13.1 8.7 13.1

