

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121421\  
 Data File : VD071310.D  
 Acq On : 14 Dec 2021 10:20  
 Operator : VA/SY  
 Sample : VD1214SBL01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 15 08:24:33 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  | 250766   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 447242   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 406781   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 185250   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 165738   | 56.327   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 112.660% |
| 35) Dibromofluoromethane    | 7.914  | 113   | 145996   | 51.263   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 102.520% |
| 50) Toluene-d8              | 10.338 | 98    | 500747   | 46.203   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 92.400%  |
| 62) 4-Bromofluorobenzene    | 12.626 | 95    | 176369   | 46.946   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 93.900%  |

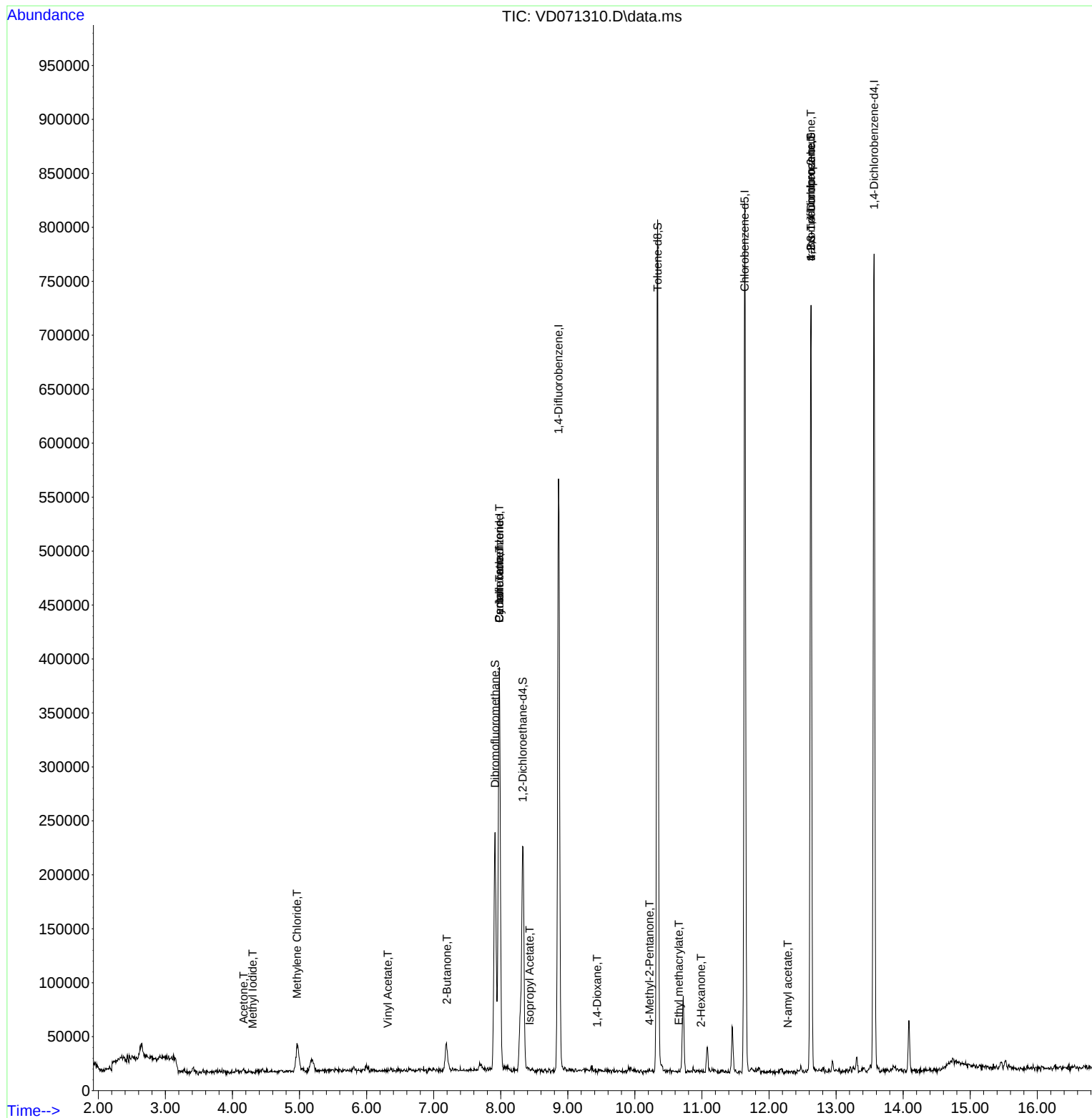
| Target Compounds              |        |     |        |           | Qvalue |      |
|-------------------------------|--------|-----|--------|-----------|--------|------|
| 10) Methyl Iodide             | 4.303  | 142 | 248    | 4.637     | ug/l   | # 76 |
| 11) Tert butyl alcohol        | 5.185  | 59  | 10943  | Below Cal |        | # 71 |
| 16) Acetone                   | 4.168  | 43  | 4579   | 35.935    | ug/l   | 89   |
| 20) Methylene Chloride        | 4.962  | 84  | 16345  | 1.449     | ug/l   | 95   |
| 23) Vinyl Acetate             | 6.314  | 43  | 304    | 27.275    | ug/l   | # 72 |
| 25) 2-Butanone                | 7.197  | 43  | 1233   | 29.570    | ug/l   | 99   |
| 31) Cyclohexane               | 7.979  | 56  | 8084   | 1.615     | ug/l   | # 12 |
| 38) Carbon Tetrachloride      | 7.979  | 117 | 26767  | 6.496     | ug/l   | # 18 |
| 41) Methacrylonitrile         | 7.567  | 41  | 496    | Below Cal |        | # 41 |
| 43) Isopropyl Acetate         | 8.432  | 43  | 397    | 5.312     | ug/l   | # 47 |
| 49) 1,4-Dioxane               | 9.438  | 88  | 153    | 10.231    | ug/l   | # 23 |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43  | 1079   | 31.117    | ug/l   | 91   |
| 56) Ethyl methacrylate        | 10.655 | 69  | 159    | 6.018     | ug/l   | # 66 |
| 59) 2-Hexanone                | 10.985 | 43  | 438    | 34.820    | ug/l   | # 57 |
| 74) N-amyl acetate            | 12.279 | 43  | 191    | 5.747     | ug/l   | # 60 |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75  | 102964 | 58.337    | ug/l   | # 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75  | 102964 | 126.464   | ug/l   | # 19 |

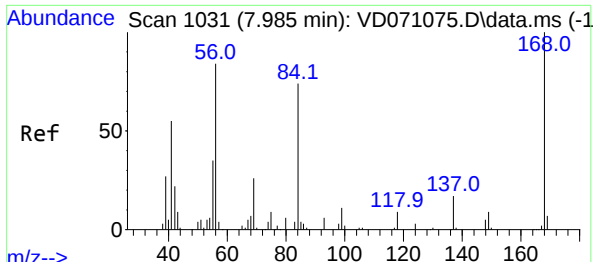
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121421\  
Data File : VD071310.D  
Acq On : 14 Dec 2021 10:20  
Operator : VA/SY  
Sample : VD1214SBL01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 15 08:24:33 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

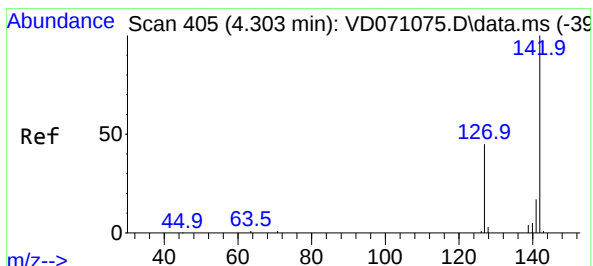
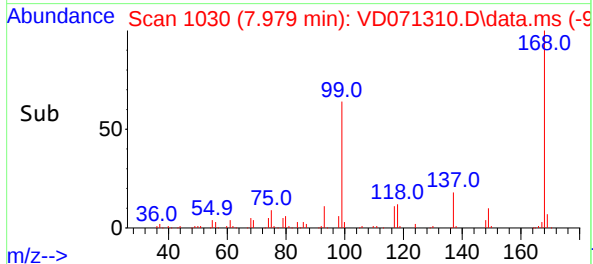
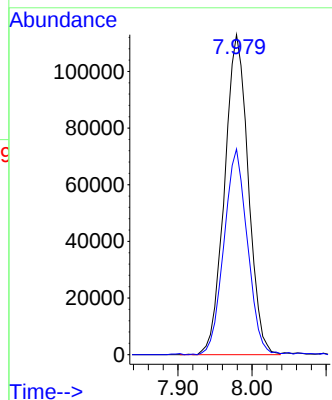
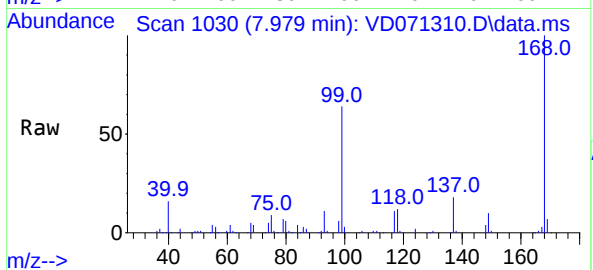




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

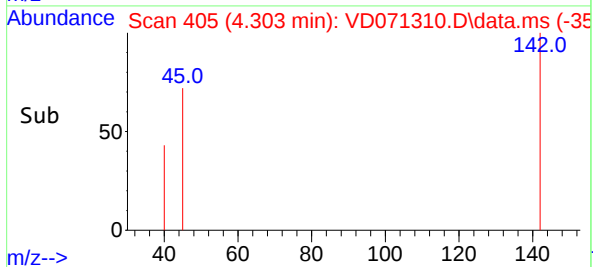
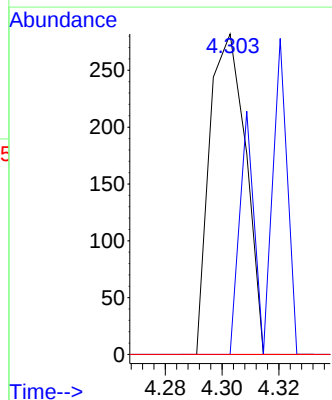
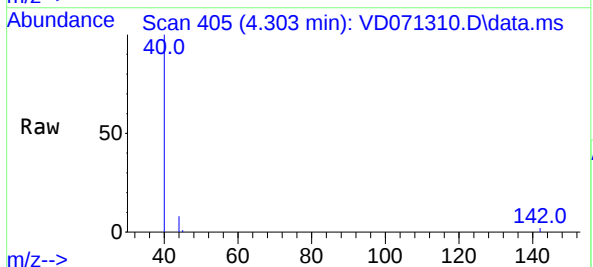
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MSVOA\_D  
ClientSampleId :

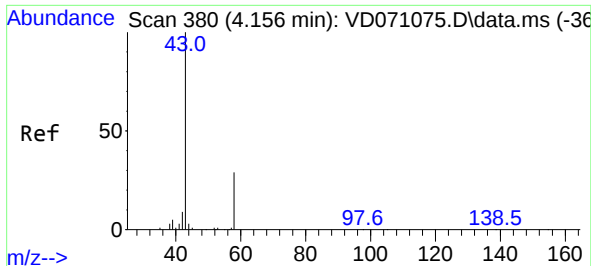
Tgt Ion:168 Resp: 250766  
Ion Ratio Lower Upper  
168 100  
99 63.9 46.6 69.8



#10  
Methyl Iodide  
Concen: 4.637 ug/l  
RT: 4.303 min Scan# 405  
Delta R.T. -0.000 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

Tgt Ion:142 Resp: 248  
Ion Ratio Lower Upper  
142 100  
127 30.6 35.0 52.4#  
141 0.0 12.0 18.0#

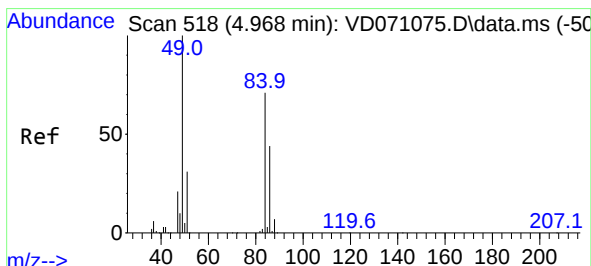
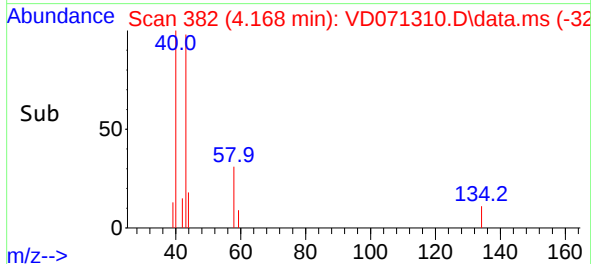
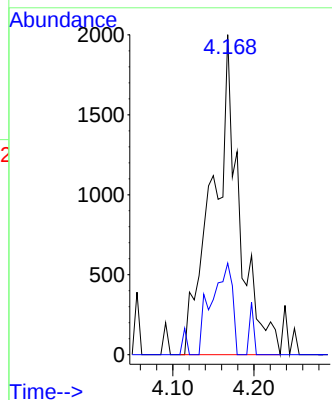
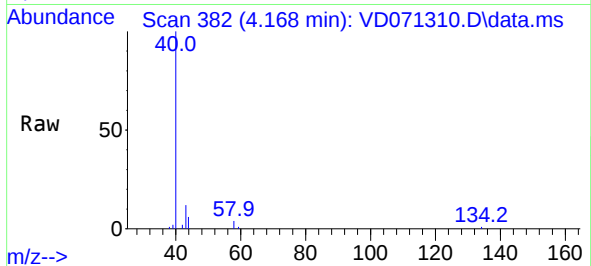




#16  
Acetone  
Concen: 35.935 ug/l  
RT: 4.168 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

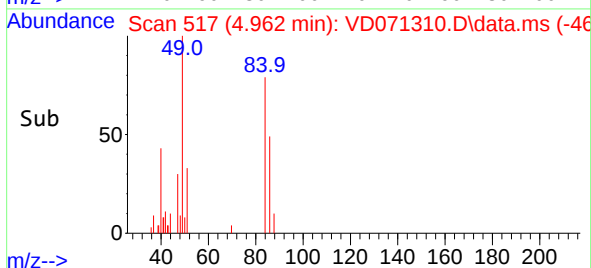
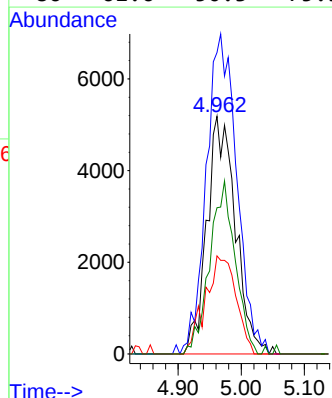
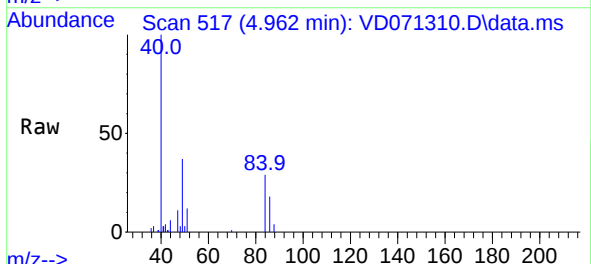
Instrument :  
MSVOA\_D  
ClientSampleId :

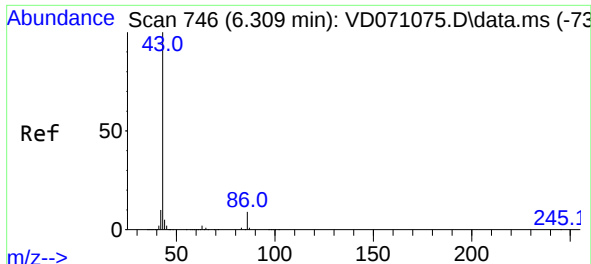
Tgt Ion: 43 Resp: 4579  
Ion Ratio Lower Upper  
43 100  
58 28.6 27.8 41.8



#20  
Methylene Chloride  
Concen: 1.449 ug/l  
RT: 4.962 min Scan# 517  
Delta R.T. -0.006 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

Tgt Ion: 84 Resp: 16345  
Ion Ratio Lower Upper  
84 100  
49 126.9 95.8 143.6  
51 41.3 30.9 46.3  
86 61.6 50.3 75.5

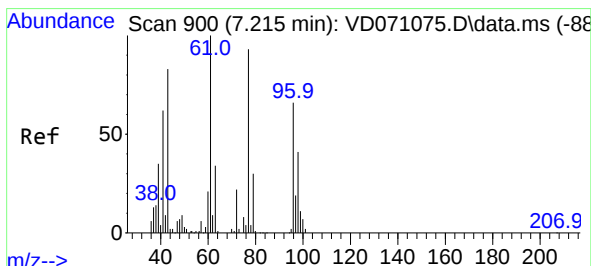
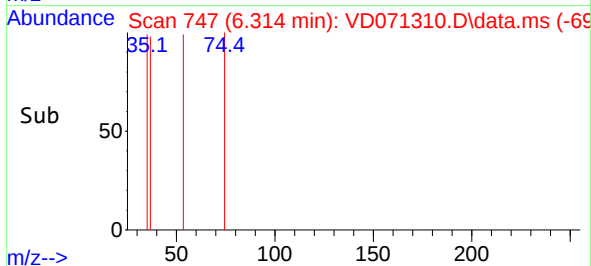
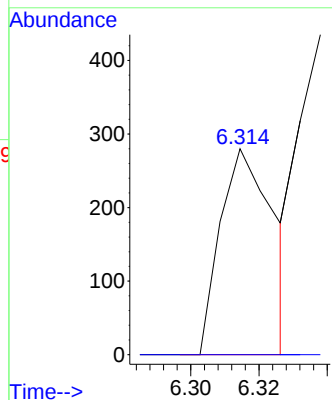
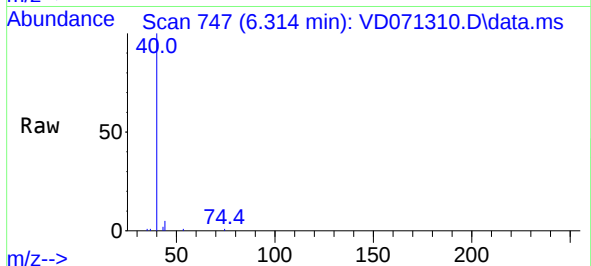




#23  
 Vinyl Acetate  
 Concen: 27.275 ug/l  
 RT: 6.314 min Scan# 746  
 Delta R.T. 0.005 min  
 Lab File: VD071310.D  
 Acq: 14 Dec 2021 10:20

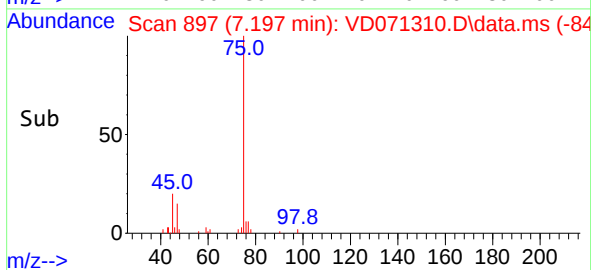
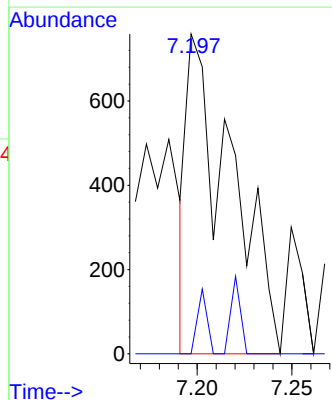
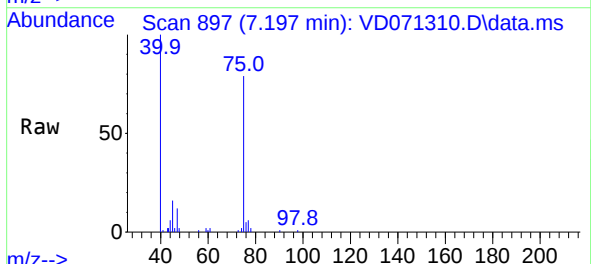
Instrument :  
 MSVOA\_D  
 ClientSampleId :

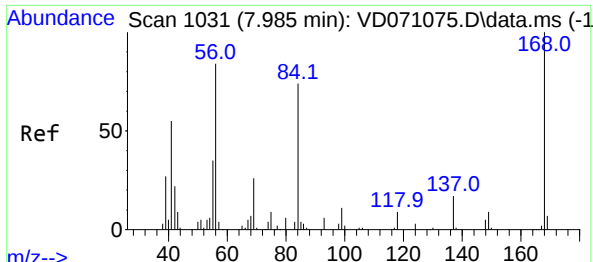
Tgt Ion: 43 Resp: 304  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.2 12.4#



#25  
 2-Butanone  
 Concen: 29.570 ug/l  
 RT: 7.197 min Scan# 897  
 Delta R.T. -0.018 min  
 Lab File: VD071310.D  
 Acq: 14 Dec 2021 10:20

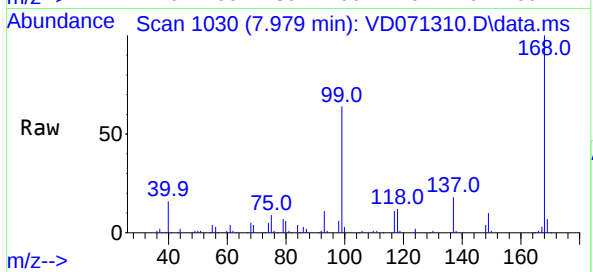
Tgt Ion: 43 Resp: 1233  
 Ion Ratio Lower Upper  
 43 100  
 72 30.4 23.8 35.6



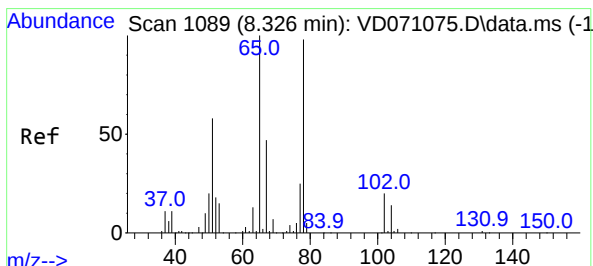
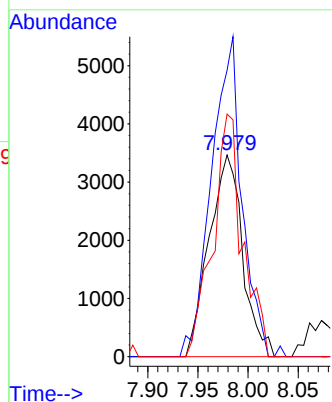
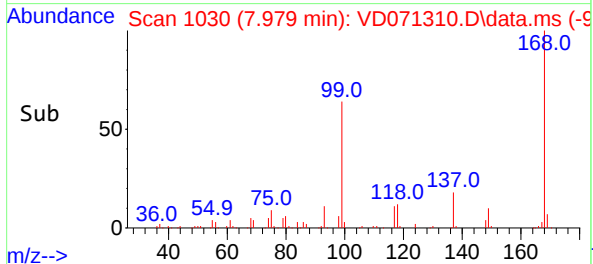


#31  
Cyclohexane  
Concen: 1.615 ug/l  
RT: 7.979 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

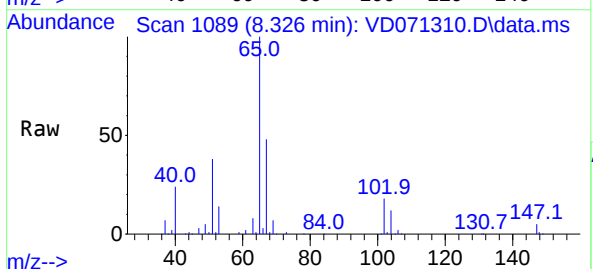
Instrument :  
MSVOA\_D  
ClientSampleId :



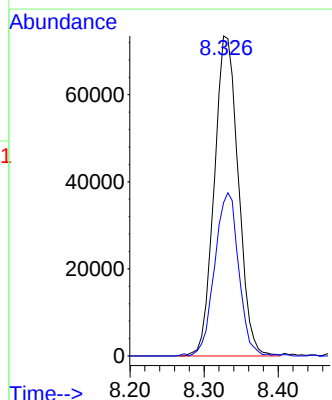
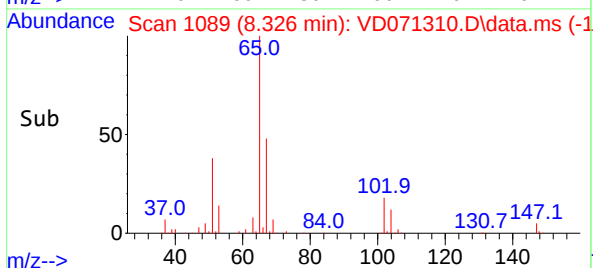
Tgt Ion: 56 Resp: 8084  
Ion Ratio Lower Upper  
56 100  
69 142.0 25.9 38.9#  
84 120.3 64.3 96.5#

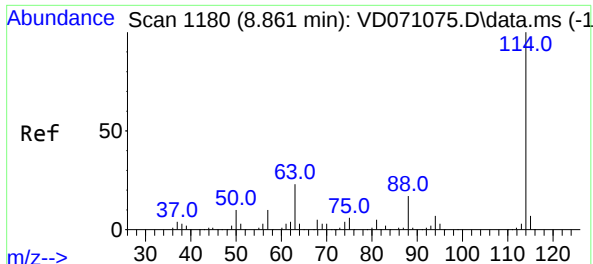


#33  
1,2-Dichloroethane-d4  
Concen: 56.327 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20



Tgt Ion: 65 Resp: 165738  
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: VD071310.D

Acq: 14 Dec 2021 10:20

Instrument :

MSVOA\_D

ClientSampleId :

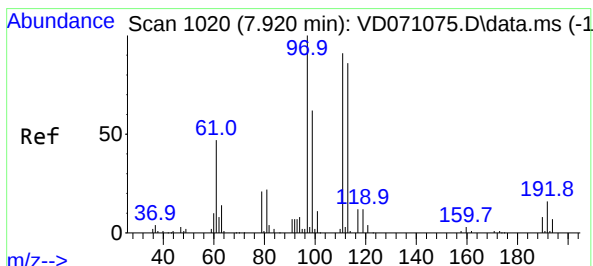
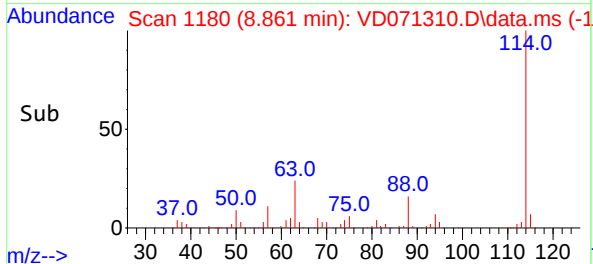
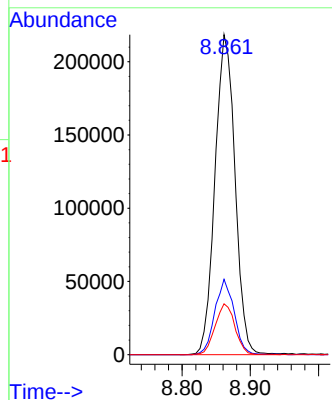
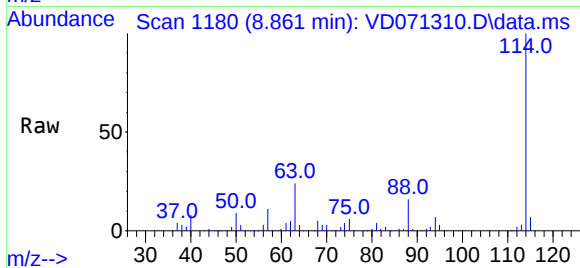
Tgt Ion:114 Resp: 447242

Ion Ratio Lower Upper

114 100

63 23.6 0.0 41.8

88 15.9 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.263 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071310.D

Acq: 14 Dec 2021 10:20

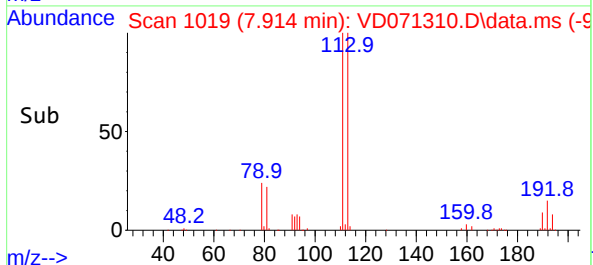
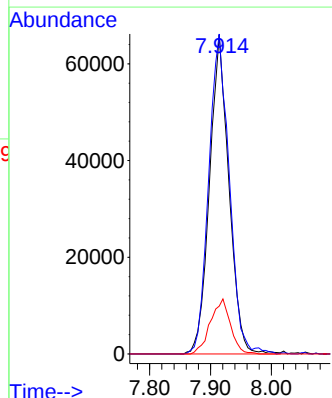
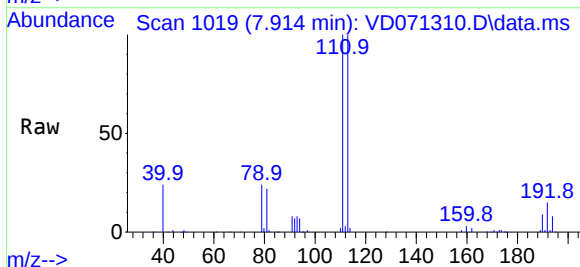
Tgt Ion:113 Resp: 145996

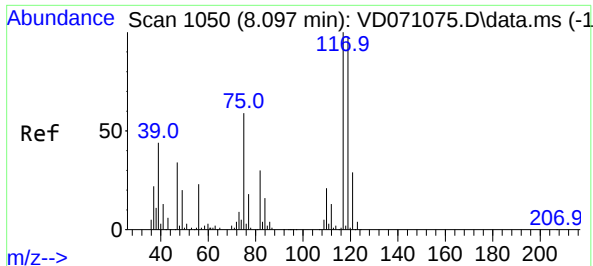
Ion Ratio Lower Upper

113 100

111 106.2 82.0 123.0

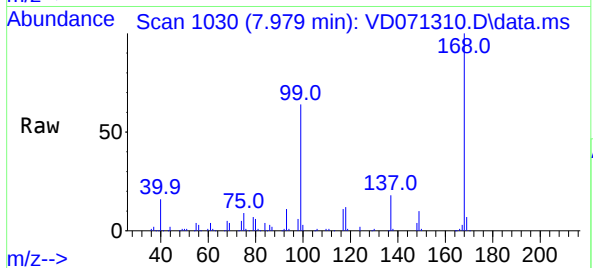
192 17.8 15.2 22.8



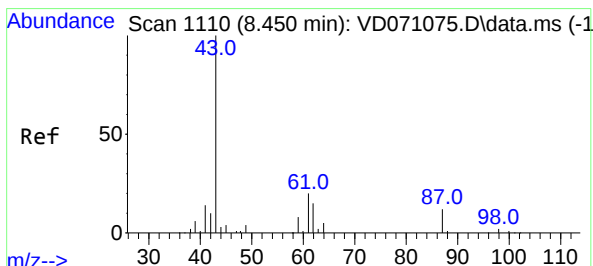
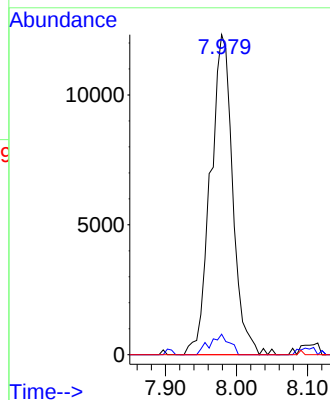
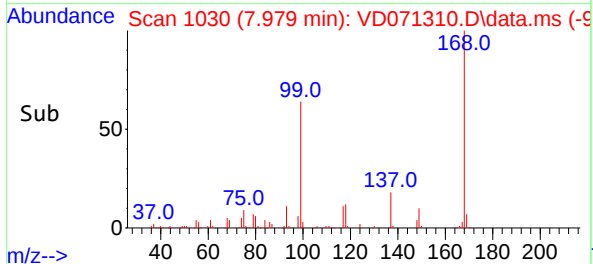


#38  
Carbon Tetrachloride  
Concen: 6.496 ug/l  
RT: 7.979 min Scan# 1107  
Delta R.T. -0.118 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

Instrument :  
MSVOA\_D  
ClientSampleId :

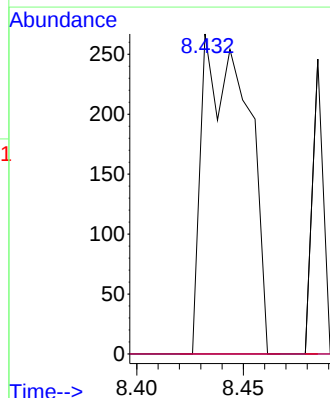
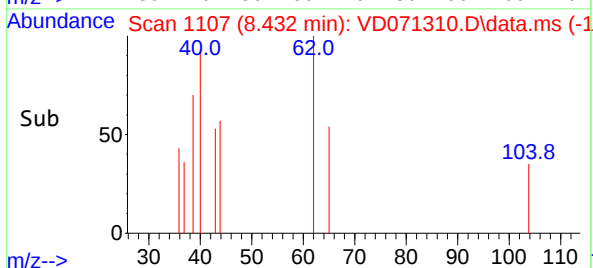
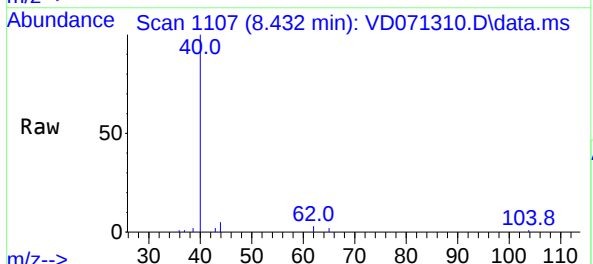


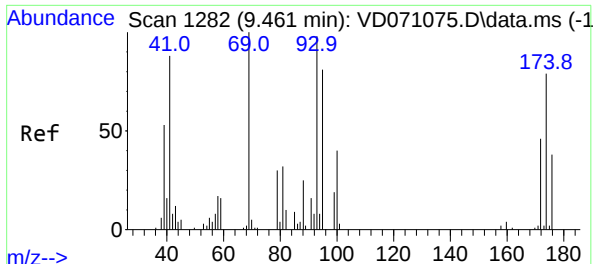
Tgt Ion:117 Resp: 26767  
Ion Ratio Lower Upper  
117 100  
119 6.4 75.8 113.6#  
121 0.0 23.6 35.4#



#43  
Isopropyl Acetate  
Concen: 5.312 ug/l  
RT: 8.432 min Scan# 1107  
Delta R.T. -0.018 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

Tgt Ion: 43 Resp: 397  
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: 10.231 ug/l

RT: 9.438 min Scan# 11

Delta R.T. -0.023 min

Lab File: VD071310.D

Acq: 14 Dec 2021 10:20

Instrument :

MSVOA\_D

ClientSampleId :

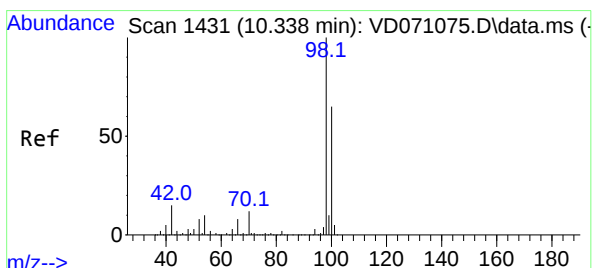
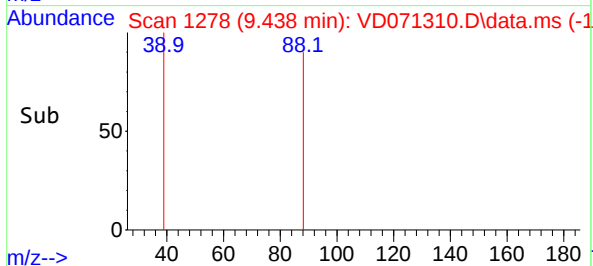
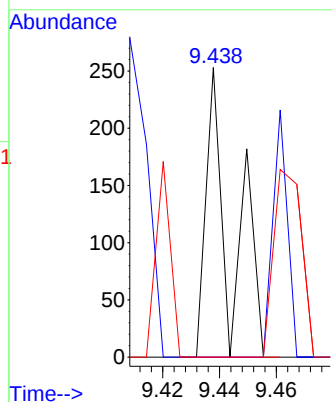
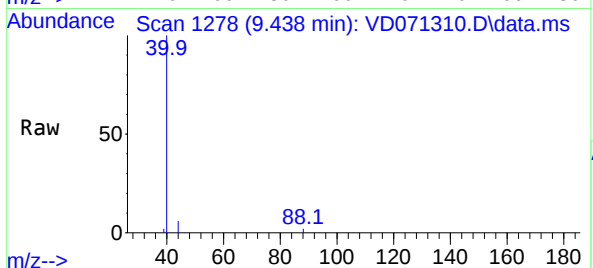
Tgt Ion: 88 Resp: 153

Ion Ratio Lower Upper

88 100

43 0.0 28.9 43.3#

58 0.0 56.3 84.5#



#50

Toluene-d8

Concen: 46.203 ug/l

RT: 10.338 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VD071310.D

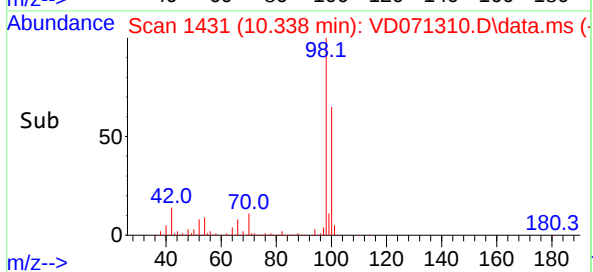
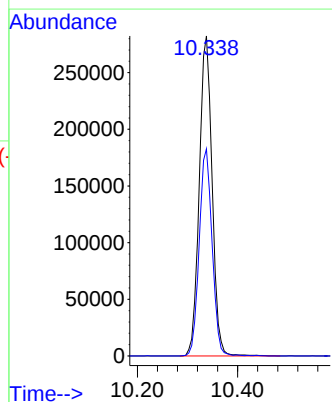
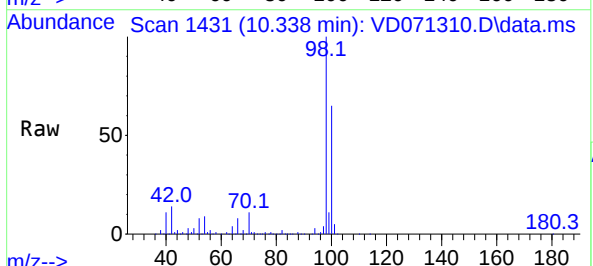
Acq: 14 Dec 2021 10:20

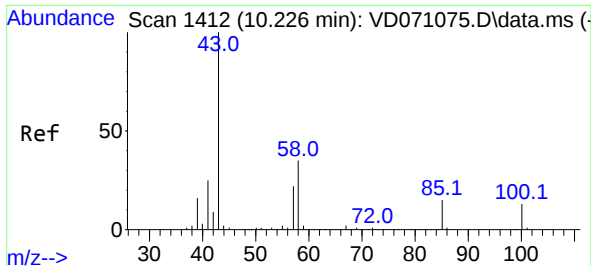
Tgt Ion: 98 Resp: 500747

Ion Ratio Lower Upper

98 100

100 64.9 51.8 77.6

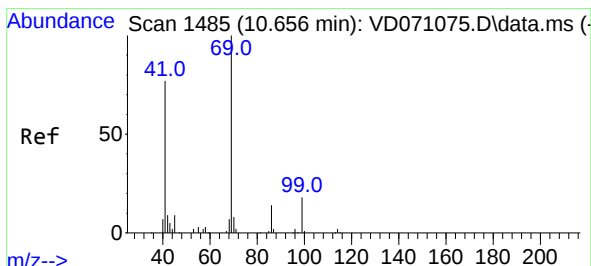
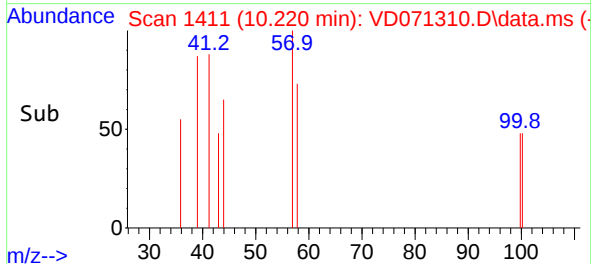
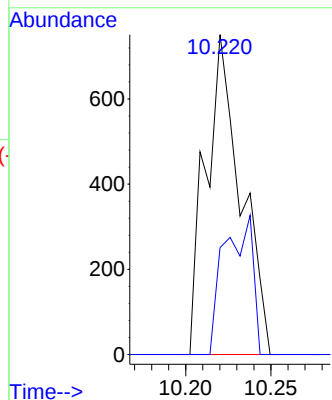
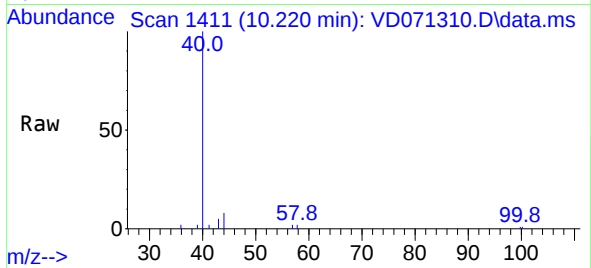




#51  
4-Methyl-2-Pentanone  
Concen: 31.117 ug/l  
RT: 10.220 min Scan# 1412  
Delta R.T. -0.006 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

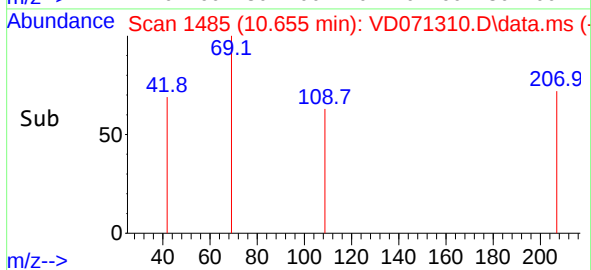
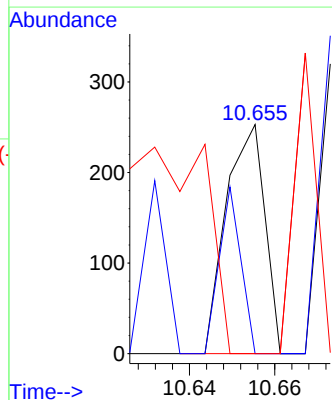
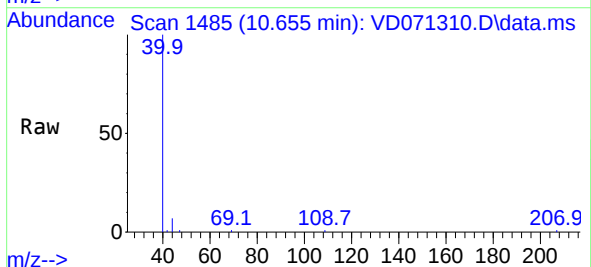
Instrument :  
MSVOA\_D  
ClientSampleId :

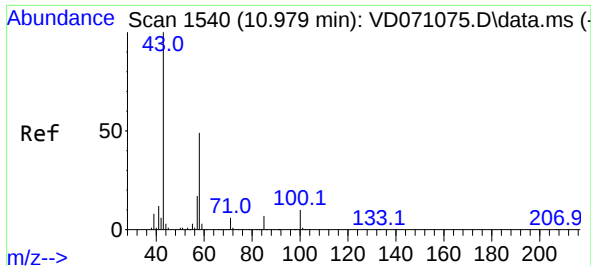
Tgt Ion: 43 Resp: 1079  
Ion Ratio Lower Upper  
43 100  
58 35.5 33.1 49.7



#56  
Ethyl methacrylate  
Concen: 6.018 ug/l  
RT: 10.655 min Scan# 1485  
Delta R.T. -0.001 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

Tgt Ion: 69 Resp: 159  
Ion Ratio Lower Upper  
69 100  
41 40.9 50.2 75.2#  
39 0.0 19.8 29.8#

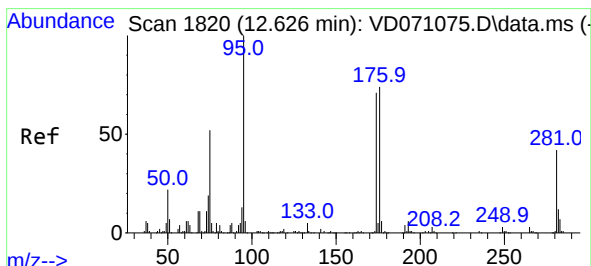
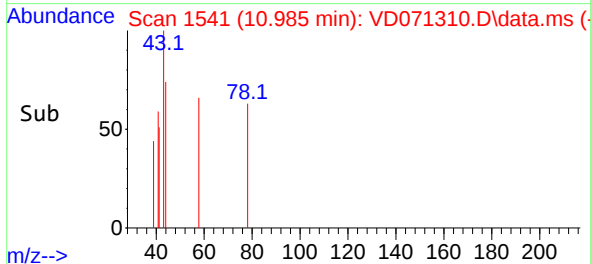
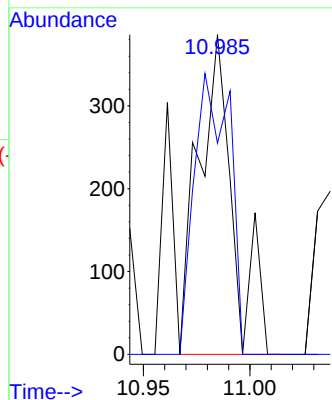
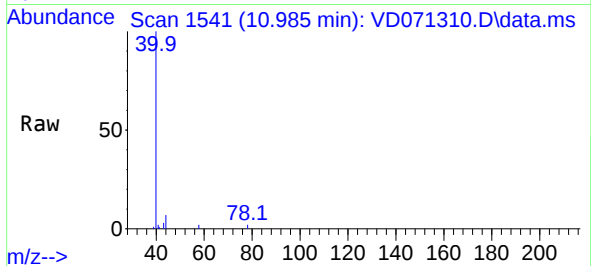




#59  
2-Hexanone  
Concen: 34.820 ug/l  
RT: 10.985 min Scan# 1540  
Delta R.T. 0.006 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

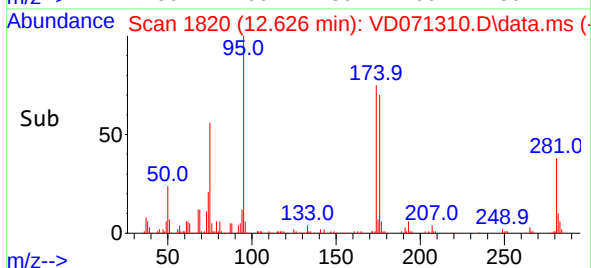
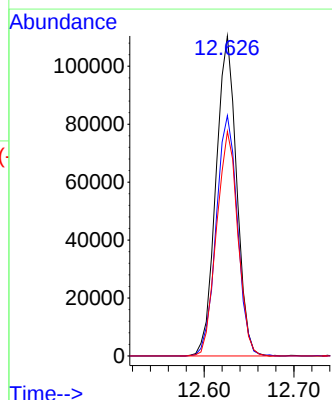
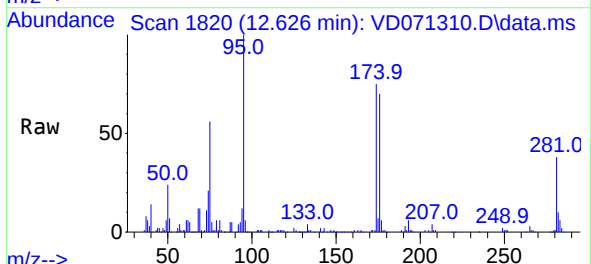
Instrument :  
MSVOA\_D  
ClientSampleId :

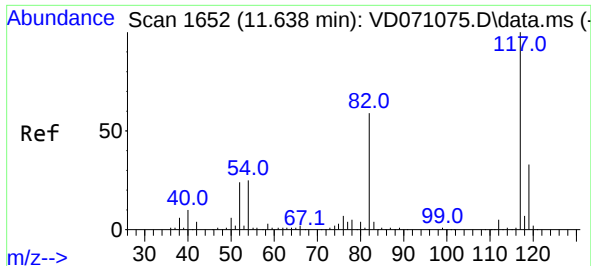
Tgt Ion: 43 Resp: 438  
Ion Ratio Lower Upper  
43 100  
58 89.5 28.7 86.1#



#62  
4-Bromofluorobenzene  
Concen: 46.946 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.000 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

Tgt Ion: 95 Resp: 176369  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 159.4  
176 72.4 0.0 154.0

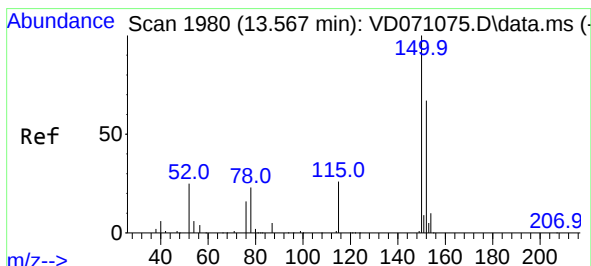
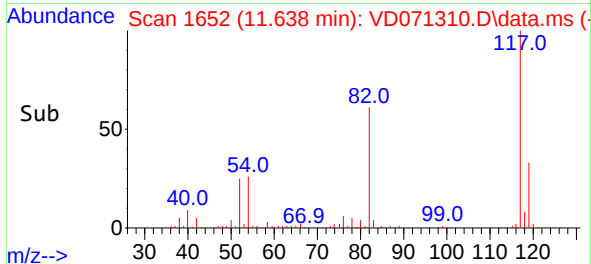
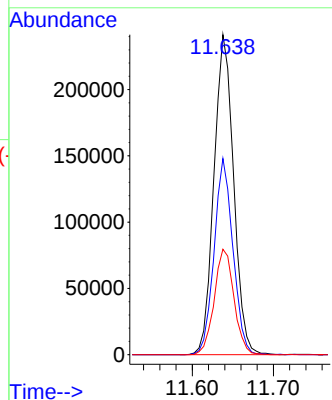
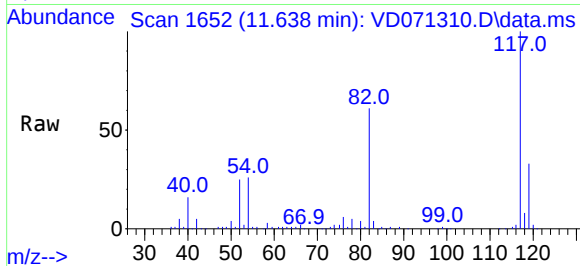




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

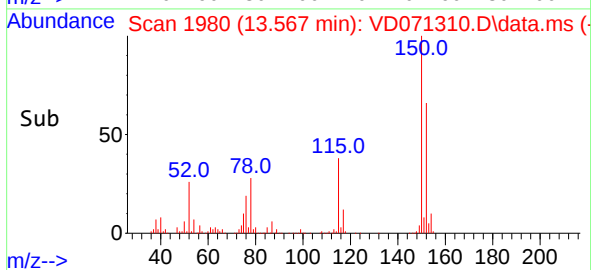
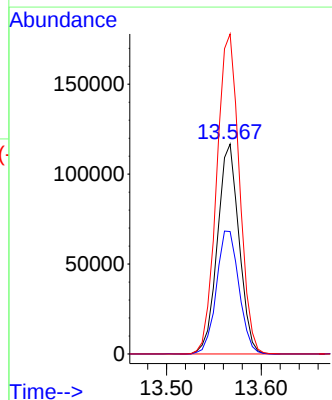
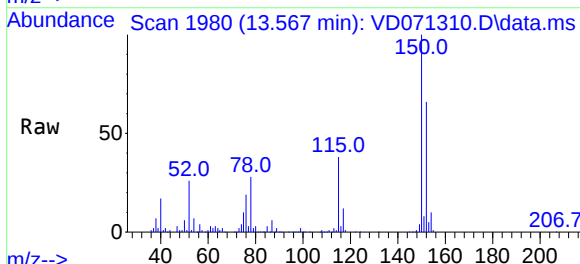
Instrument :  
MSVOA\_D  
ClientSampleId :

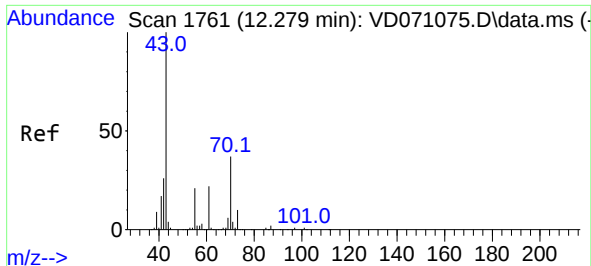
Tgt Ion:117 Resp: 406781  
Ion Ratio Lower Upper  
117 100  
82 61.3 44.7 67.1  
119 32.9 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

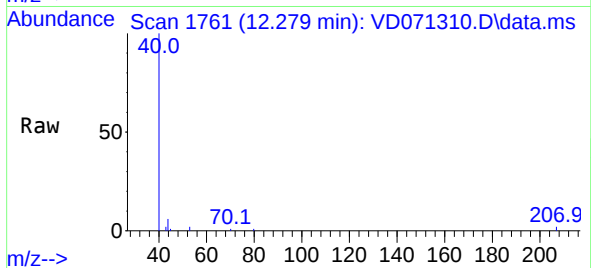
Tgt Ion:152 Resp: 185250  
Ion Ratio Lower Upper  
152 100  
115 61.1 29.8 89.3  
150 159.7 0.0 349.2



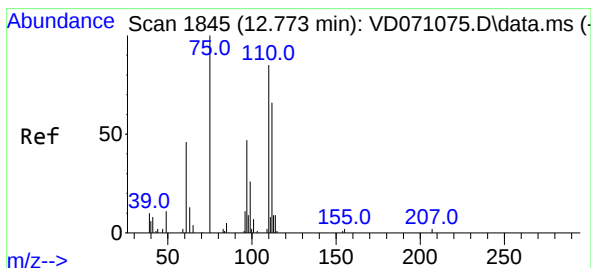
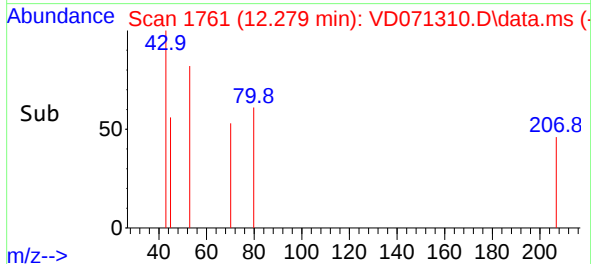
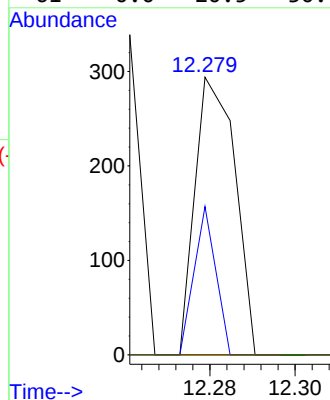


#74  
N-amy1 acetate  
Concen: 5.747 ug/l  
RT: 12.279 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

Instrument :  
MSVOA\_D  
ClientSampleId :

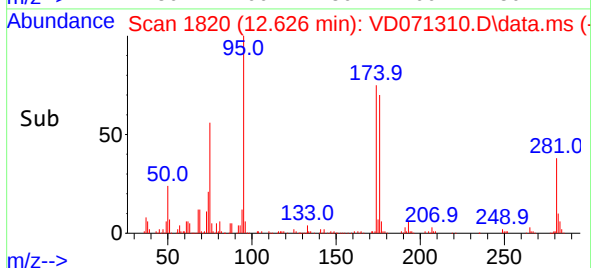
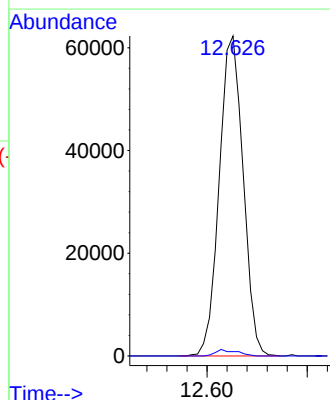
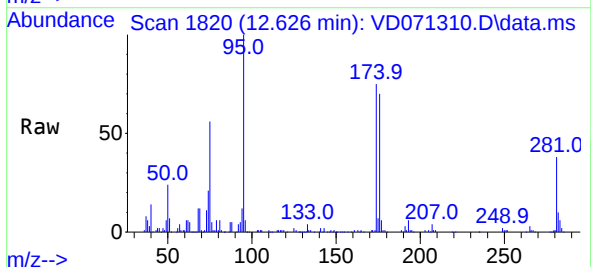


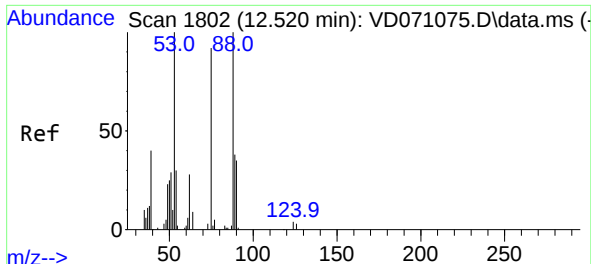
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 191         |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 70          | 28.8  | 36.6 55.0#  |
| 55          | 0.0   | 22.5 33.7#  |
| 61          | 0.0   | 20.5 30.7#  |



#76  
1,2,3-Trichloropropane  
Concen: 58.337 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

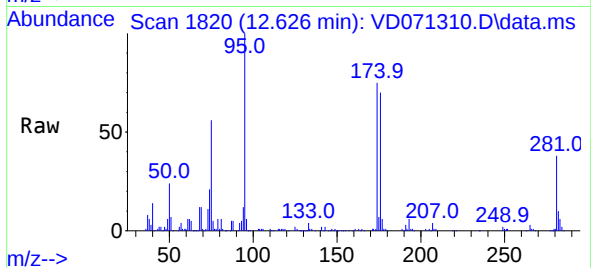
|             |       |              |
|-------------|-------|--------------|
| Tgt Ion: 75 | Resp: | 102964       |
| Ion         | Ratio | Lower Upper  |
| 75          | 100   |              |
| 77          | 1.8   | 158.4 475.3# |





#81  
trans-1,4-Dichloro-2-butene  
Concen: 126.464 ug/l  
RT: 12.626 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VD071310.D  
Acq: 14 Dec 2021 10:20

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 75 Resp: 102964  
Ion Ratio Lower Upper  
75 100  
53 0.0 62.6 94.0#  
89 0.6 34.5 51.7#

