

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051922\  
 Data File : VD073173.D  
 Acq On : 20 May 2022 09:09  
 Operator : VA/SY  
 Sample : N2842-15  
 Misc : 4.49G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P023-SS001-1218-01

Quant Time: May 20 13:07:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 19 15:13:42 2022  
 Response via : Initial Calibration

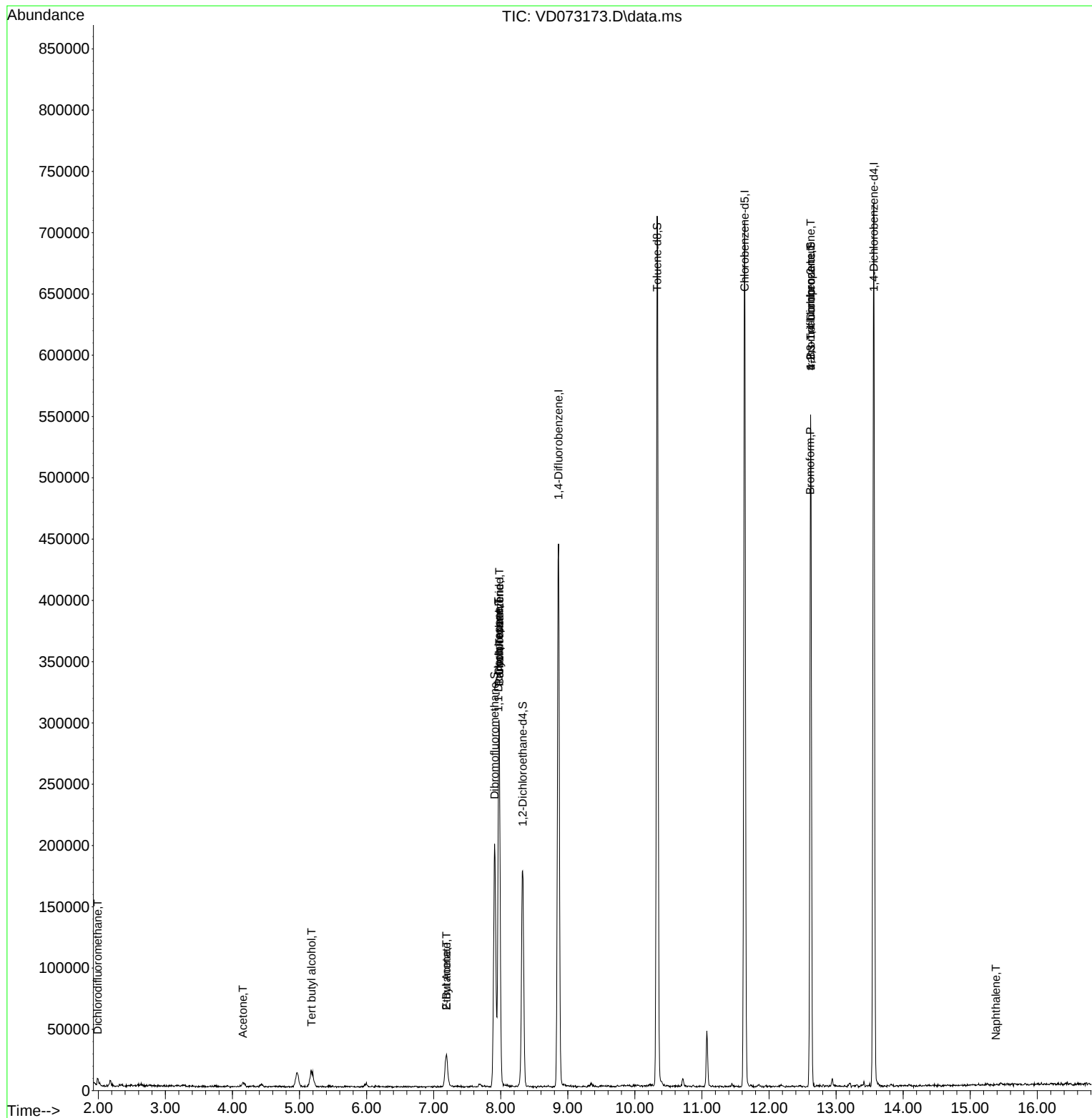
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 219357   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 384955   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 411448   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 194350   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 146968   | 60.625    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 121.260% |
| 35) Dibromofluoromethane      | 7.909  | 113   | 142416   | 56.065    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 112.140% |
| 50) Toluene-d8                | 10.332 | 98    | 475680   | 50.800    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 101.600% |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 178137   | 54.209    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 108.420% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.991  | 85    | 3837     | 1.751     | ug/l   | 98       |
| 5) Bromomethane               | 2.779  | 94    | 685      | Below Cal | #      | 79       |
| 11) Tert butyl alcohol        | 5.179  | 59    | 12445    | 33.088    | ug/l # | 74       |
| 16) Acetone                   | 4.156  | 43    | 3778     | 8.997     | ug/l # | 73       |
| 20) Methylene Chloride        | 4.962  | 84    | 9842     | Below Cal | #      | 84       |
| 25) 2-Butanone                | 7.191  | 43    | 2143     | 3.488     | ug/l   | 97       |
| 31) Cyclohexane               | 7.973  | 56    | 5605     | 1.323     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.967  | 75    | 17976    | 4.705     | ug/l # | 45       |
| 37) Ethyl Acetate             | 7.191  | 43    | 2143     | 1.420     | ug/l # | 42       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 21706    | 5.605     | ug/l # | 18       |
| 71) Bromoform                 | 12.614 | 173   | 1755     | 1.089     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 89969    | 47.181    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 89969    | 113.266   | ug/l # | 7        |
| 95) Naphthalene               | 15.385 | 128   | 177      | 3.567     | ug/l # | 70       |
| -----                         |        |       |          |           |        |          |

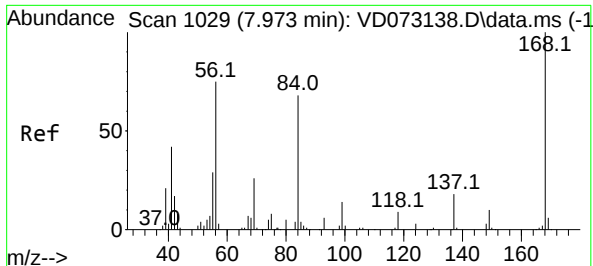
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051922\  
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QLast Update : Thu May 19 15:13:42 2022  
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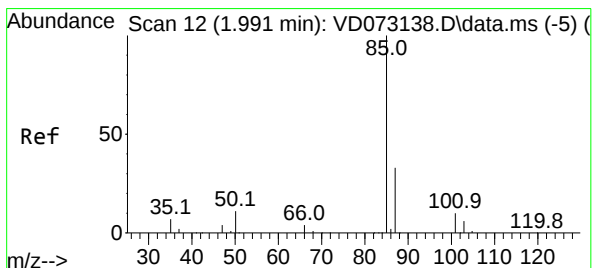
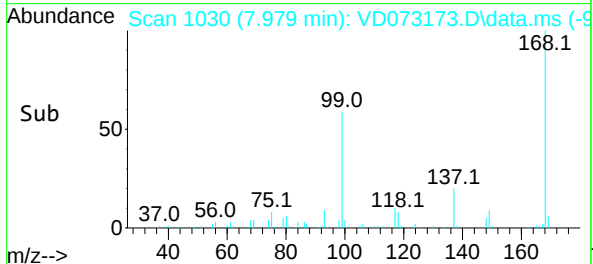
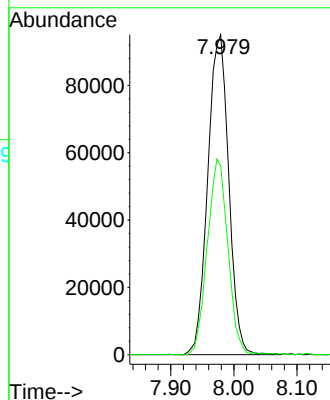
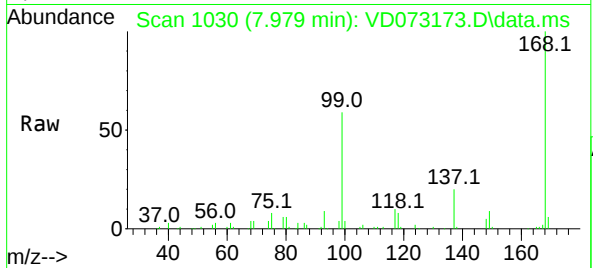




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 1029  
Delta R.T. 0.006 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

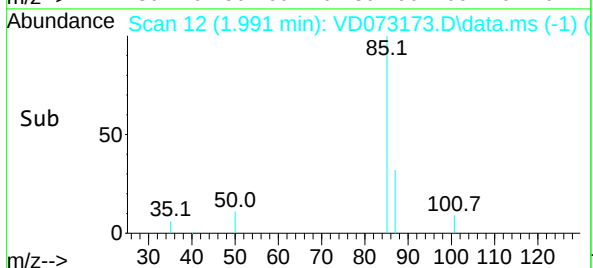
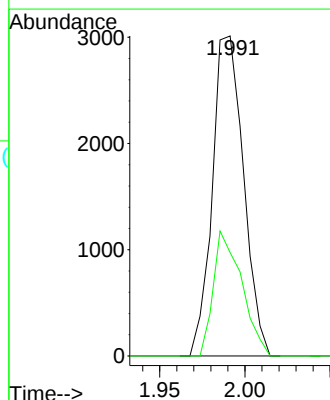
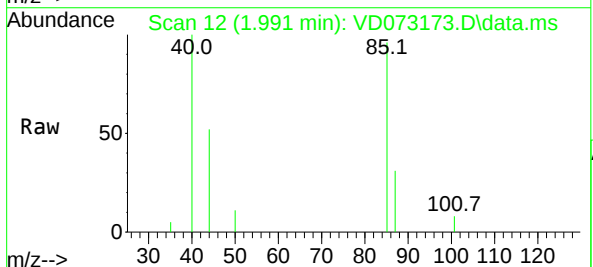
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS001-1218-01

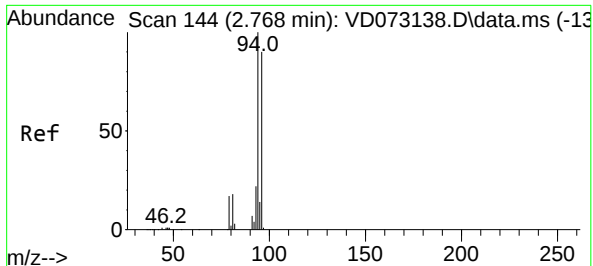
Tgt Ion:168 Resp: 219357  
Ion Ratio Lower Upper  
168 100  
99 58.9 49.8 74.6



#2  
Dichlorodifluoromethane  
Concen: 1.751 ug/l  
RT: 1.991 min Scan# 12  
Delta R.T. 0.000 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

Tgt Ion: 85 Resp: 3837  
Ion Ratio Lower Upper  
85 100  
87 32.3 15.7 47.0

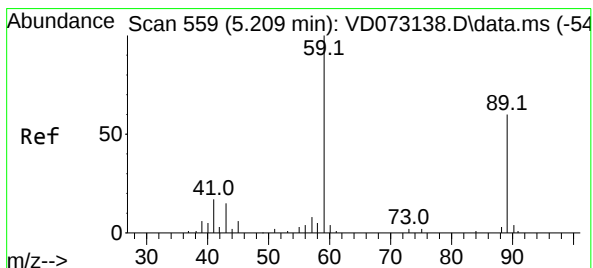
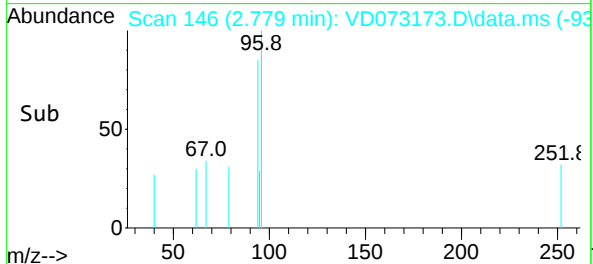
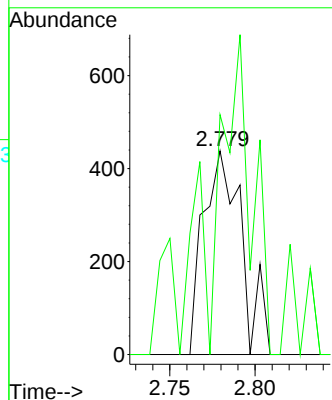
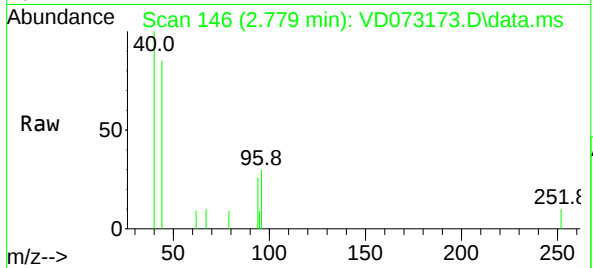




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 14  
Delta R.T. 0.011 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

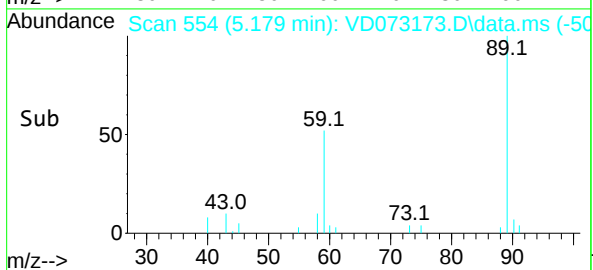
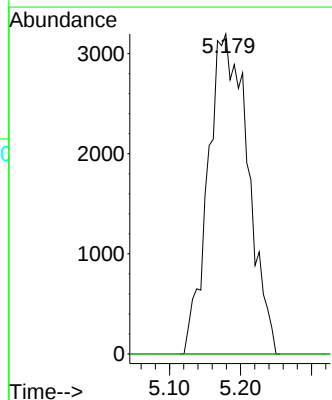
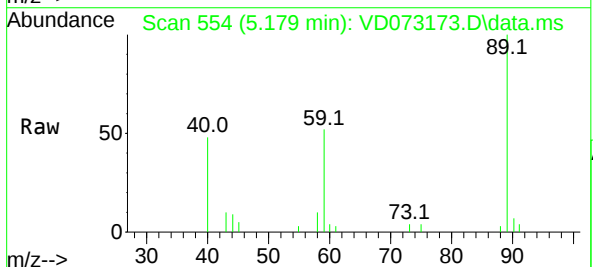
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS001-1218-01

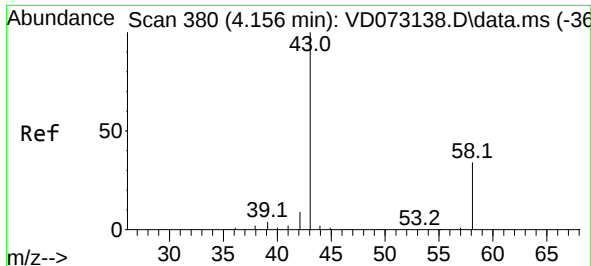
Tgt Ion: 94 Resp: 685  
Ion Ratio Lower Upper  
94 100  
96 117.8 77.6 116.4#



#11  
Tert butyl alcohol  
Concen: 33.088 ug/l  
RT: 5.179 min Scan# 554  
Delta R.T. -0.030 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

Tgt Ion: 59 Resp: 12445  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#

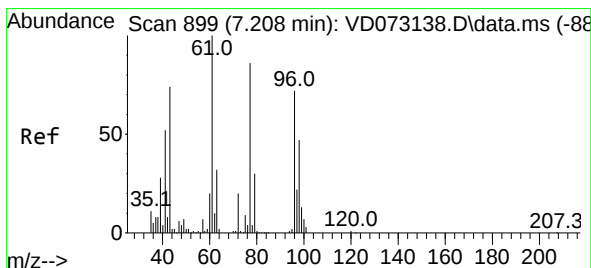
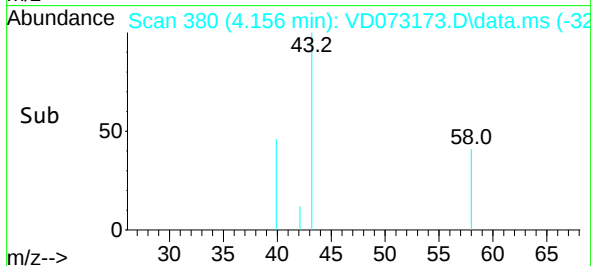
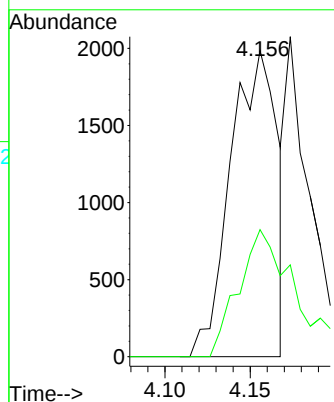
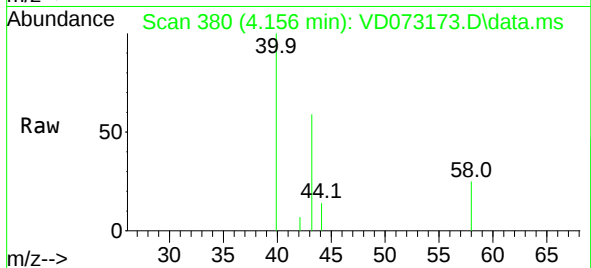




#16  
Acetone  
Concen: 8.997 ug/l  
RT: 4.156 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

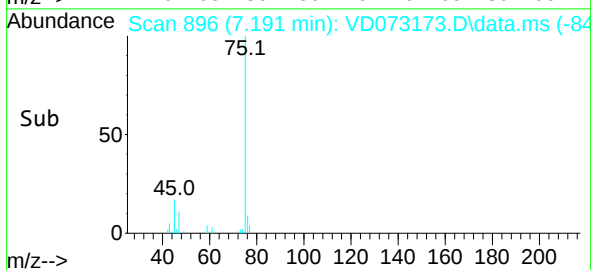
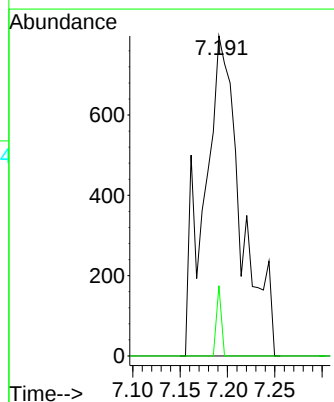
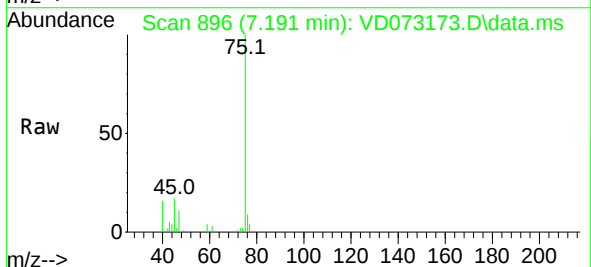
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS001-1218-01

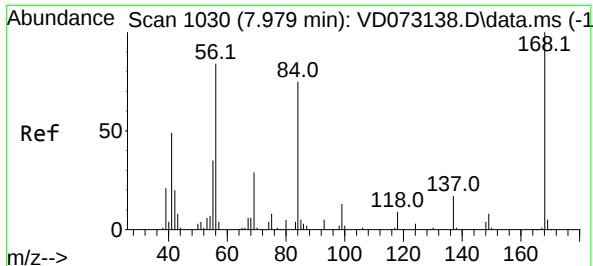
Tgt Ion: 43 Resp: 3778  
Ion Ratio Lower Upper  
43 100  
58 41.5 22.1 33.1#



#25  
2-Butanone  
Concen: 3.488 ug/l  
RT: 7.191 min Scan# 896  
Delta R.T. -0.017 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

Tgt Ion: 43 Resp: 2143  
Ion Ratio Lower Upper  
43 100  
72 22.0 18.6 27.8





#31

Cyclohexane

Concen: 1.323 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VD073173.D

Acq: 20 May 2022 09:09

Instrument :

MSVOA\_D

ClientSampleId :

P023-SS001-1218-01

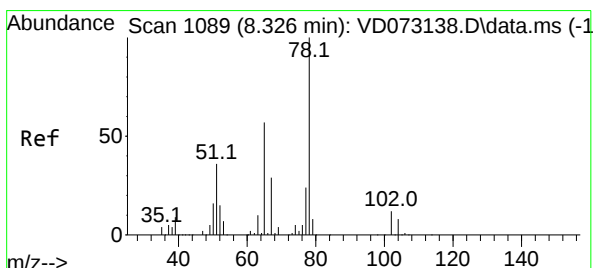
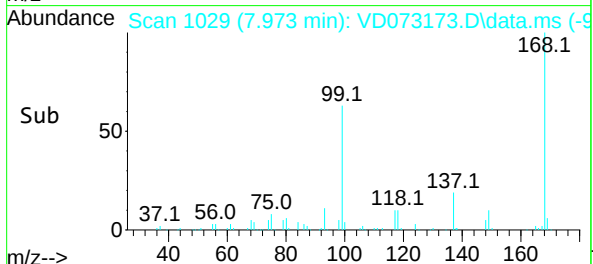
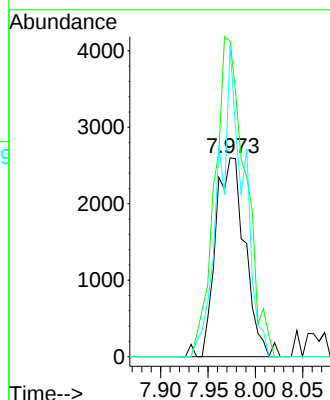
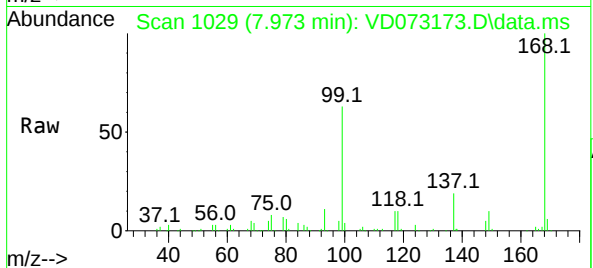
Tgt Ion: 56 Resp: 5605

Ion Ratio Lower Upper

56 100

69 158.7 25.4 38.2#

84 156.3 63.0 94.4#



#33

1,2-Dichloroethane-d4

Concen: 60.625 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD073173.D

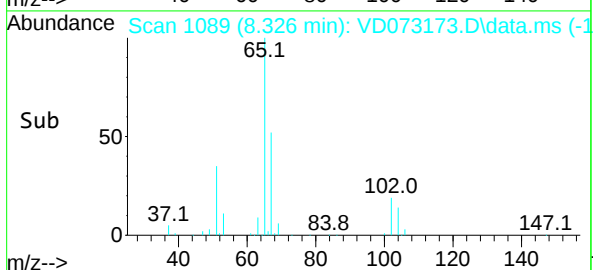
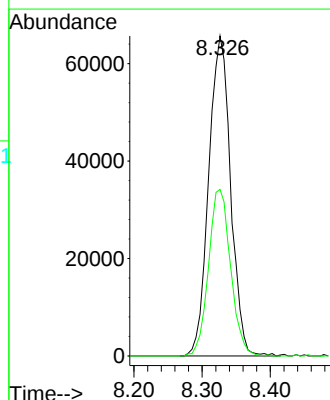
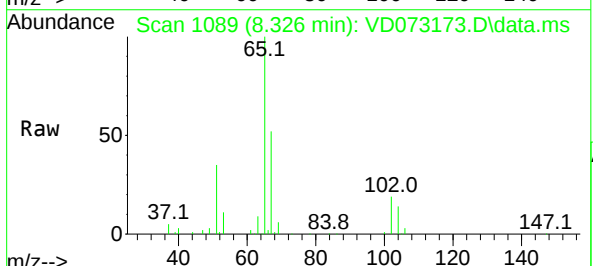
Acq: 20 May 2022 09:09

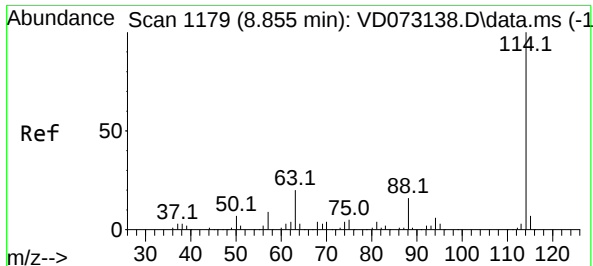
Tgt Ion: 65 Resp: 146968

Ion Ratio Lower Upper

65 100

67 52.3 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1179

Delta R.T. 0.006 min

Lab File: VD073173.D

Acq: 20 May 2022 09:09

Instrument :

MSVOA\_D

ClientSampleId :

P023-SS001-1218-01

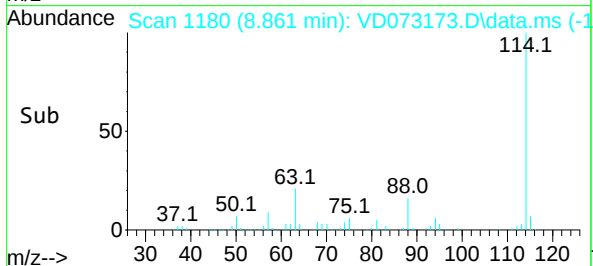
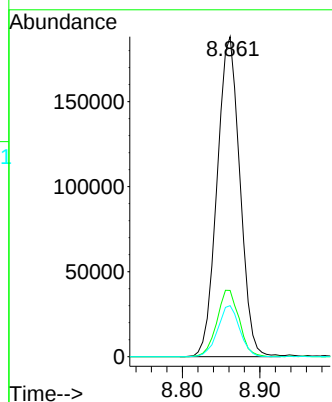
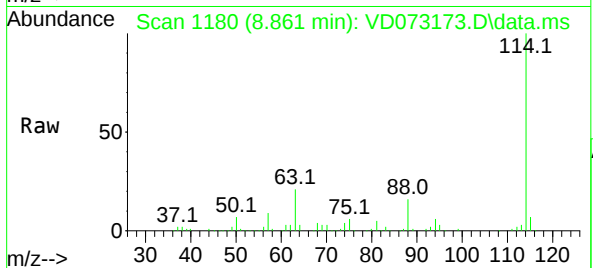
Tgt Ion:114 Resp: 384955

Ion Ratio Lower Upper

114 100

63 20.7 0.0 46.6

88 16.0 0.0 33.2



#35

Dibromofluoromethane

Concen: 56.065 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.005 min

Lab File: VD073173.D

Acq: 20 May 2022 09:09

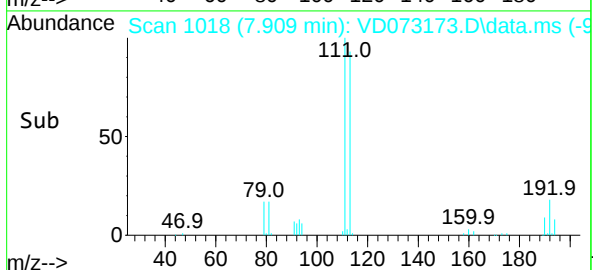
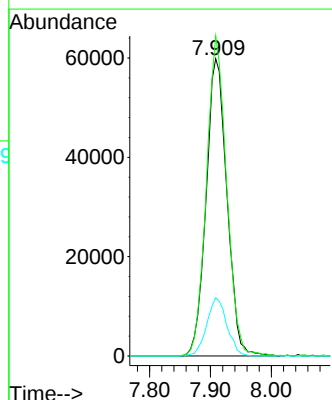
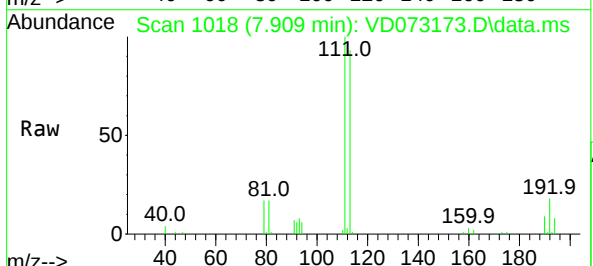
Tgt Ion:113 Resp: 142416

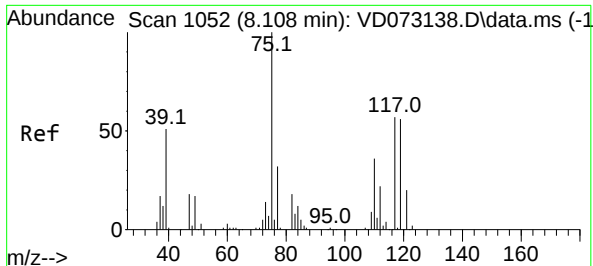
Ion Ratio Lower Upper

113 100

111 104.5 83.8 125.6

192 18.9 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.705 ug/l

RT: 7.967 min Scan# 1

Delta R.T. -0.141 min

Lab File: VD073173.D

Acq: 20 May 2022 09:09

Instrument :

MSVOA\_D

ClientSampleId :

P023-SS001-1218-01

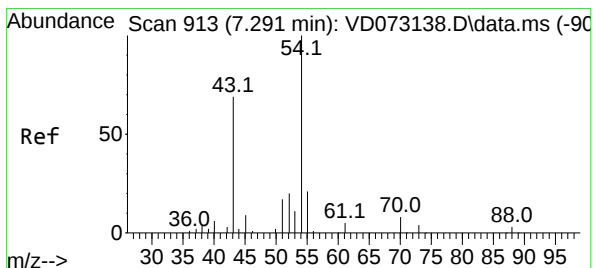
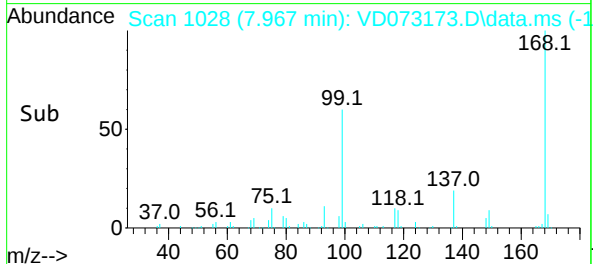
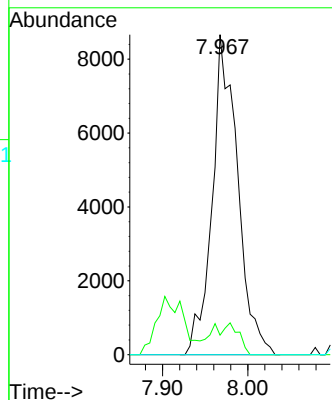
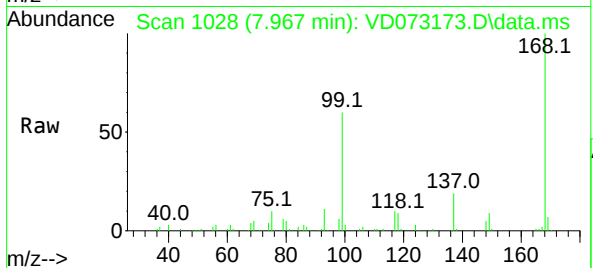
Tgt Ion: 75 Resp: 17976

Ion Ratio Lower Upper

75 100

110 1.6 16.4 49.1#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 1.420 ug/l

RT: 7.191 min Scan# 896

Delta R.T. -0.100 min

Lab File: VD073173.D

Acq: 20 May 2022 09:09

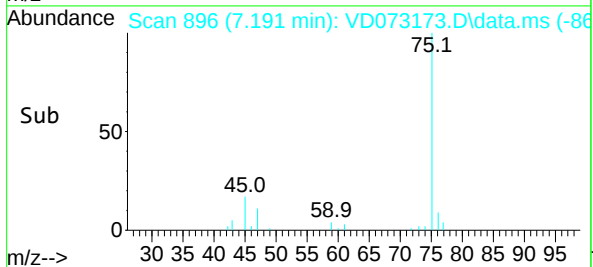
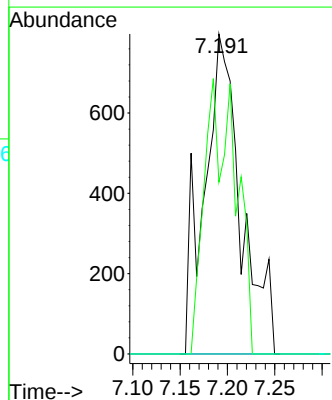
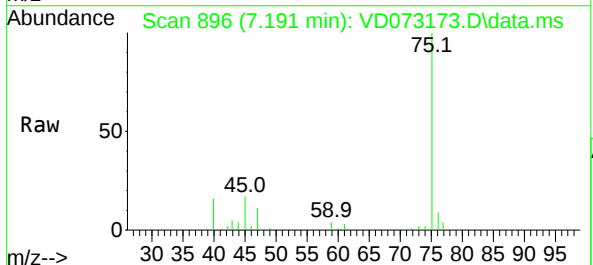
Tgt Ion: 43 Resp: 2143

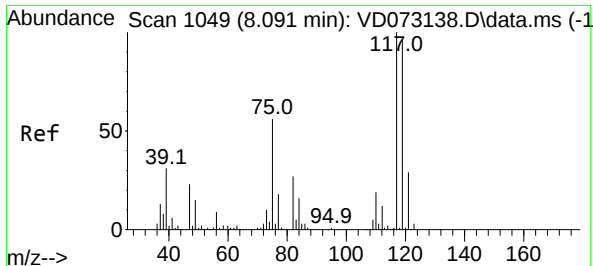
Ion Ratio Lower Upper

43 100

61 44.4 9.8 14.8#

70 0.0 6.9 10.3#

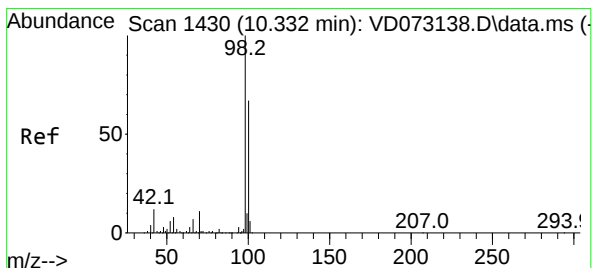
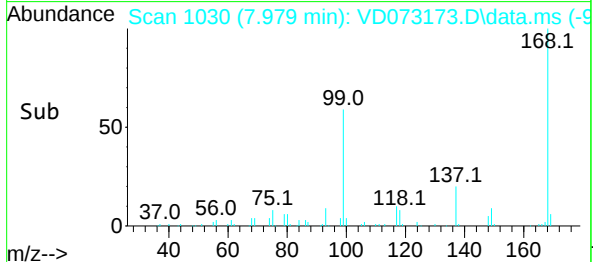
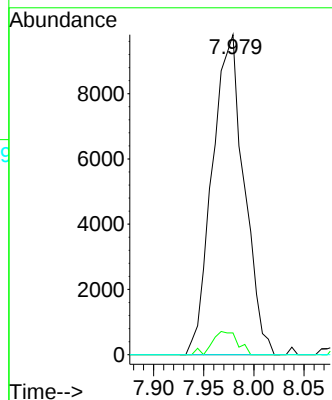
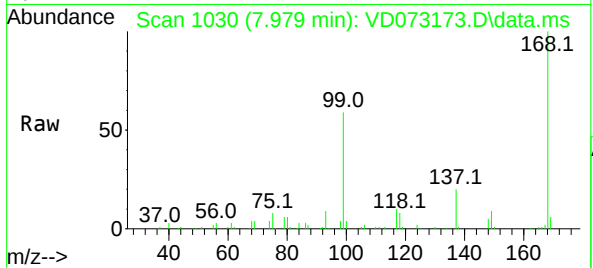




#38  
Carbon Tetrachloride  
Concen: 5.605 ug/l  
RT: 7.979 min Scan# 1049  
Delta R.T. -0.112 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

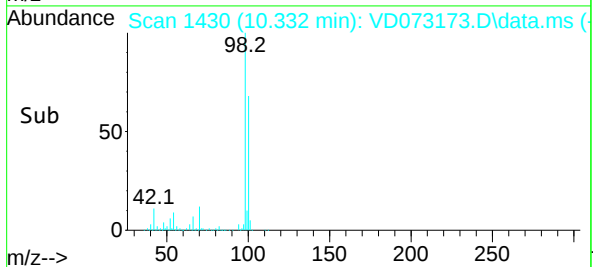
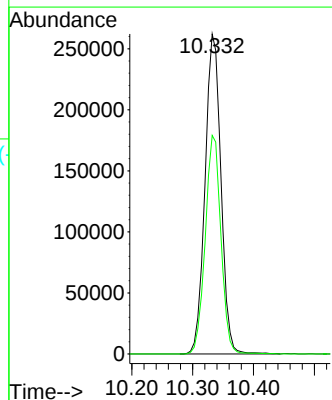
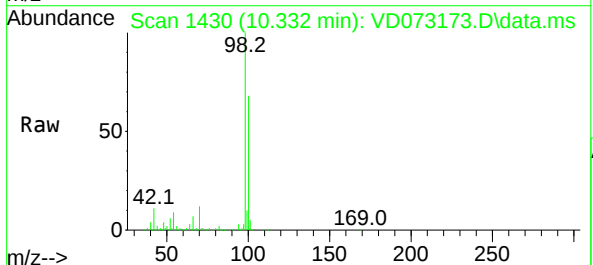
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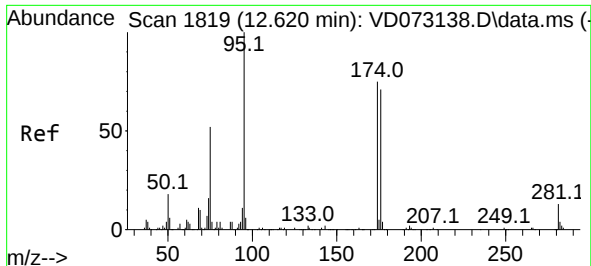
Tgt Ion:117 Resp: 21706  
Ion Ratio Lower Upper  
117 100  
119 6.8 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 50.800 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

Tgt Ion: 98 Resp: 475680  
Ion Ratio Lower Upper  
98 100  
100 67.5 52.4 78.6

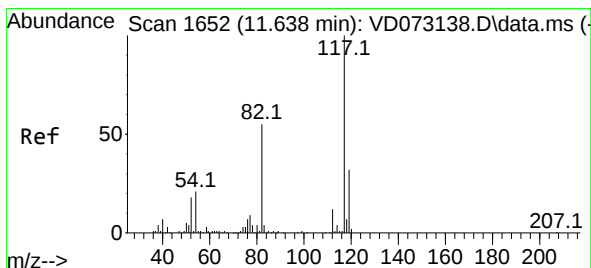
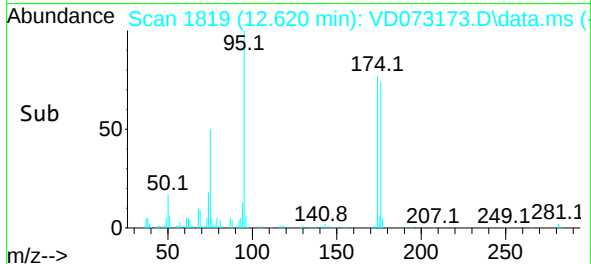
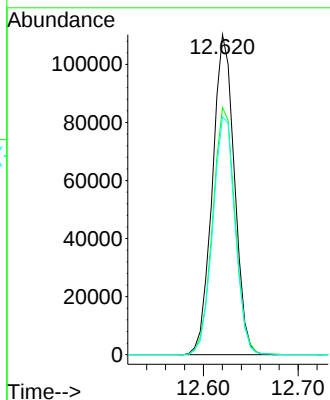
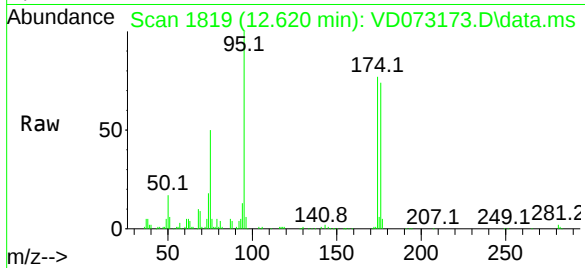




#62  
4-Bromofluorobenzene  
Concen: 54.209 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

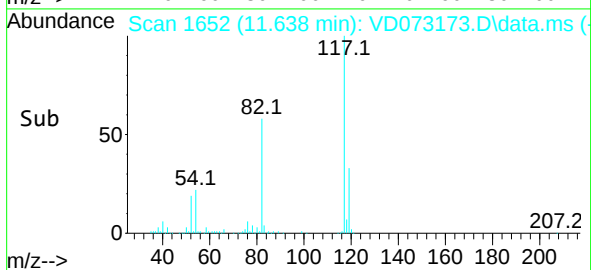
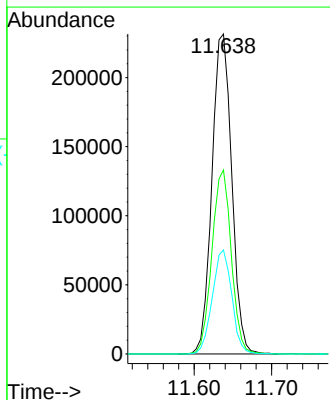
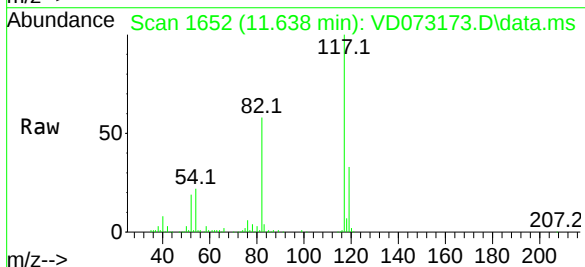
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS001-1218-01

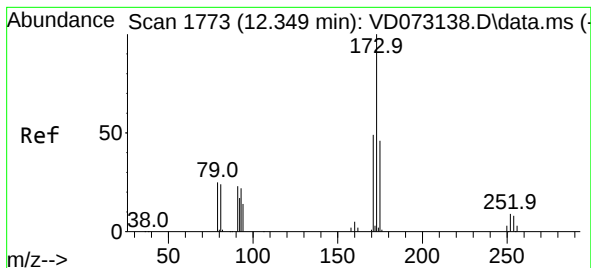
Tgt Ion: 95 Resp: 178137  
Ion Ratio Lower Upper  
95 100  
174 78.6 0.0 152.8  
176 75.5 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

Tgt Ion: 117 Resp: 411448  
Ion Ratio Lower Upper  
117 100  
82 57.5 45.3 67.9  
119 32.5 26.6 40.0





#71

Bromoform

Concen: 1.089 ug/l

RT: 12.614 min Scan# 1818

Delta R.T. 0.265 min

Lab File: VD073173.D

Acq: 20 May 2022 09:09

Instrument :

MSVOA\_D

ClientSampleId :

P023-SS001-1218-01

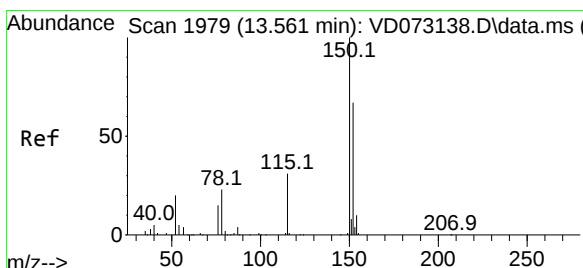
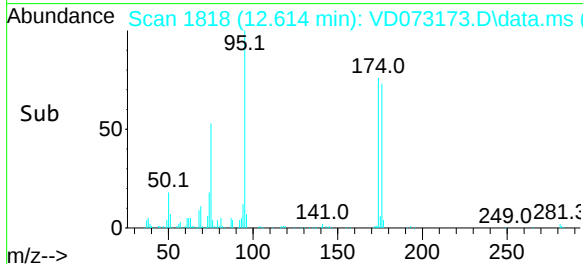
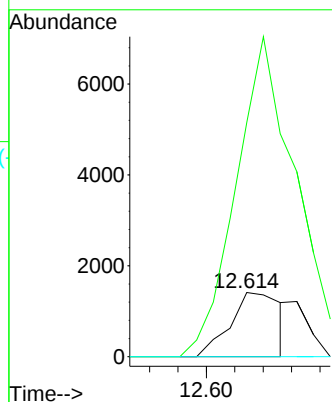
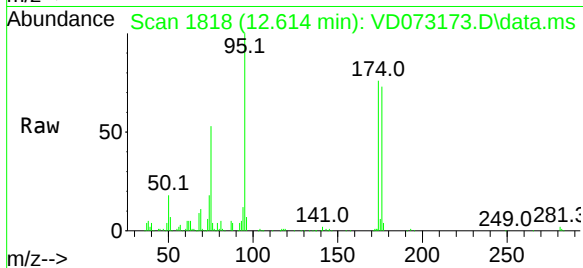
Tgt Ion:173 Resp: 1755

Ion Ratio Lower Upper

173 100

175 436.9 23.9 71.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VD073173.D

Acq: 20 May 2022 09:09

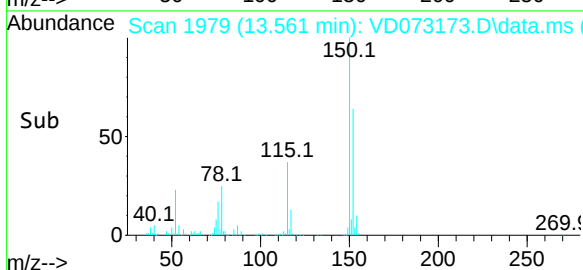
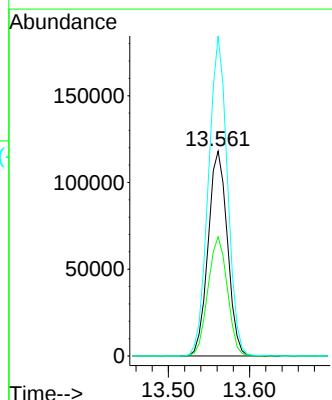
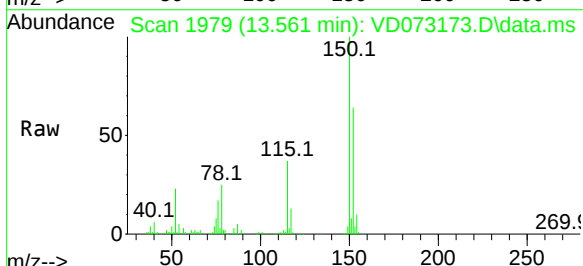
Tgt Ion:152 Resp: 194350

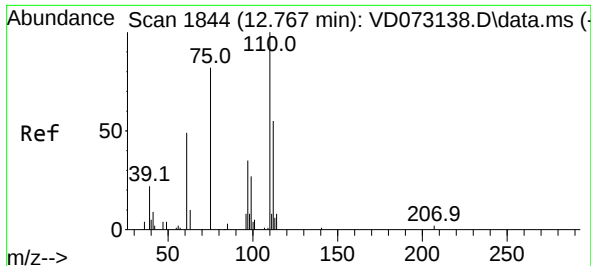
Ion Ratio Lower Upper

152 100

115 58.4 31.3 93.8

150 154.1 0.0 348.6

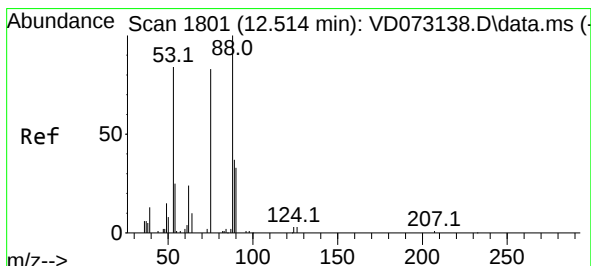
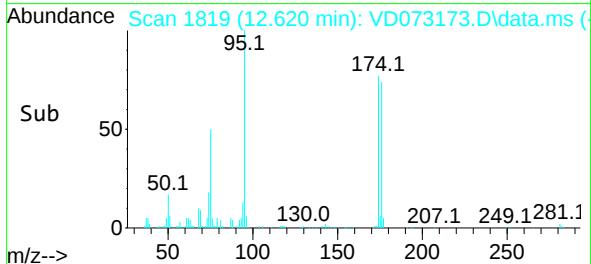
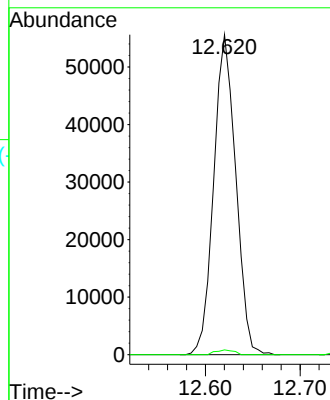
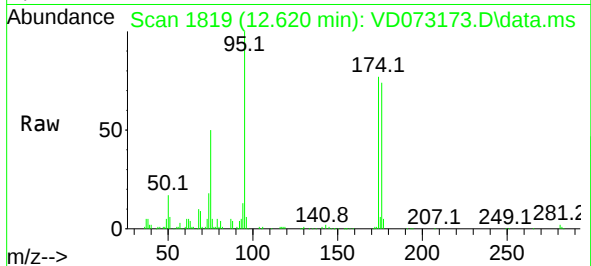




#76  
1,2,3-Trichloropropane  
Concen: 47.181 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

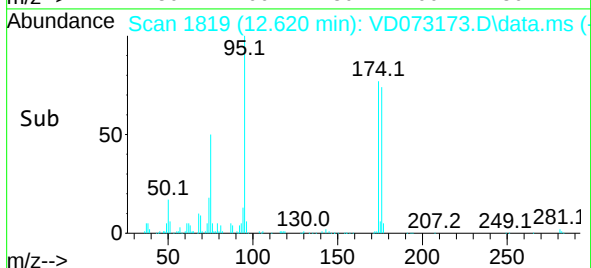
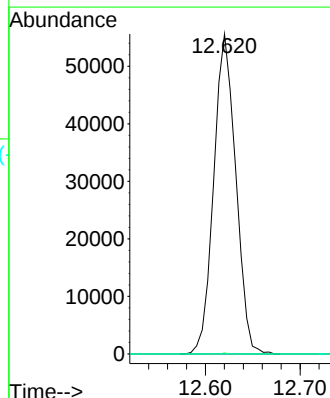
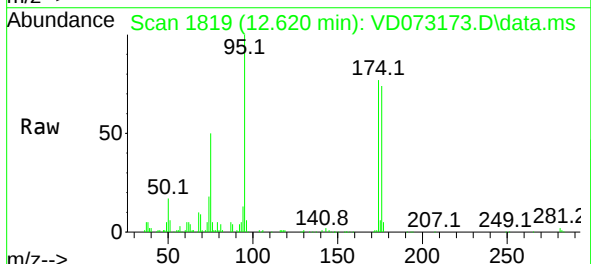
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS001-1218-01

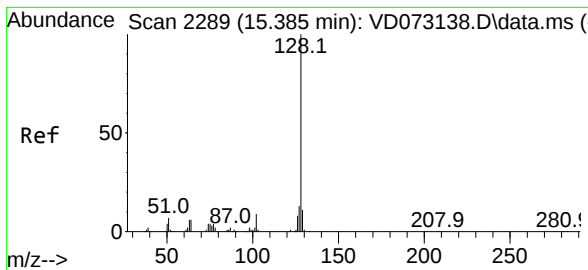
Tgt Ion: 75 Resp: 89969  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 113.266 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

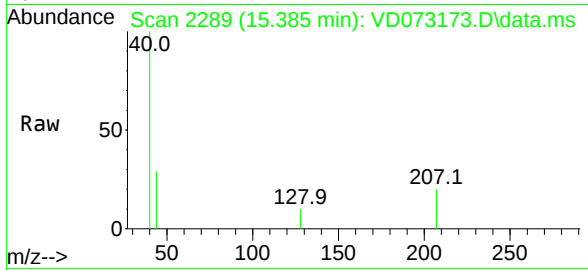
Tgt Ion: 75 Resp: 89969  
Ion Ratio Lower Upper  
75 100  
53 0.1 86.5 129.7#  
89 0.0 33.9 50.9#





#95  
Naphthalene  
Concen: 3.567 ug/l  
RT: 15.385 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VD073173.D  
Acq: 20 May 2022 09:09

Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS001-1218-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 177   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.3  | 15.5# |
| 129      | 0.0   | 8.4   | 12.6# |

