

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052622\  
 Data File : VD073395.D  
 Acq On : 26 May 2022 18:30  
 Operator : VA/SY  
 Sample : N3070-03  
 Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 IG1

Quant Time: May 27 01:33:23 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

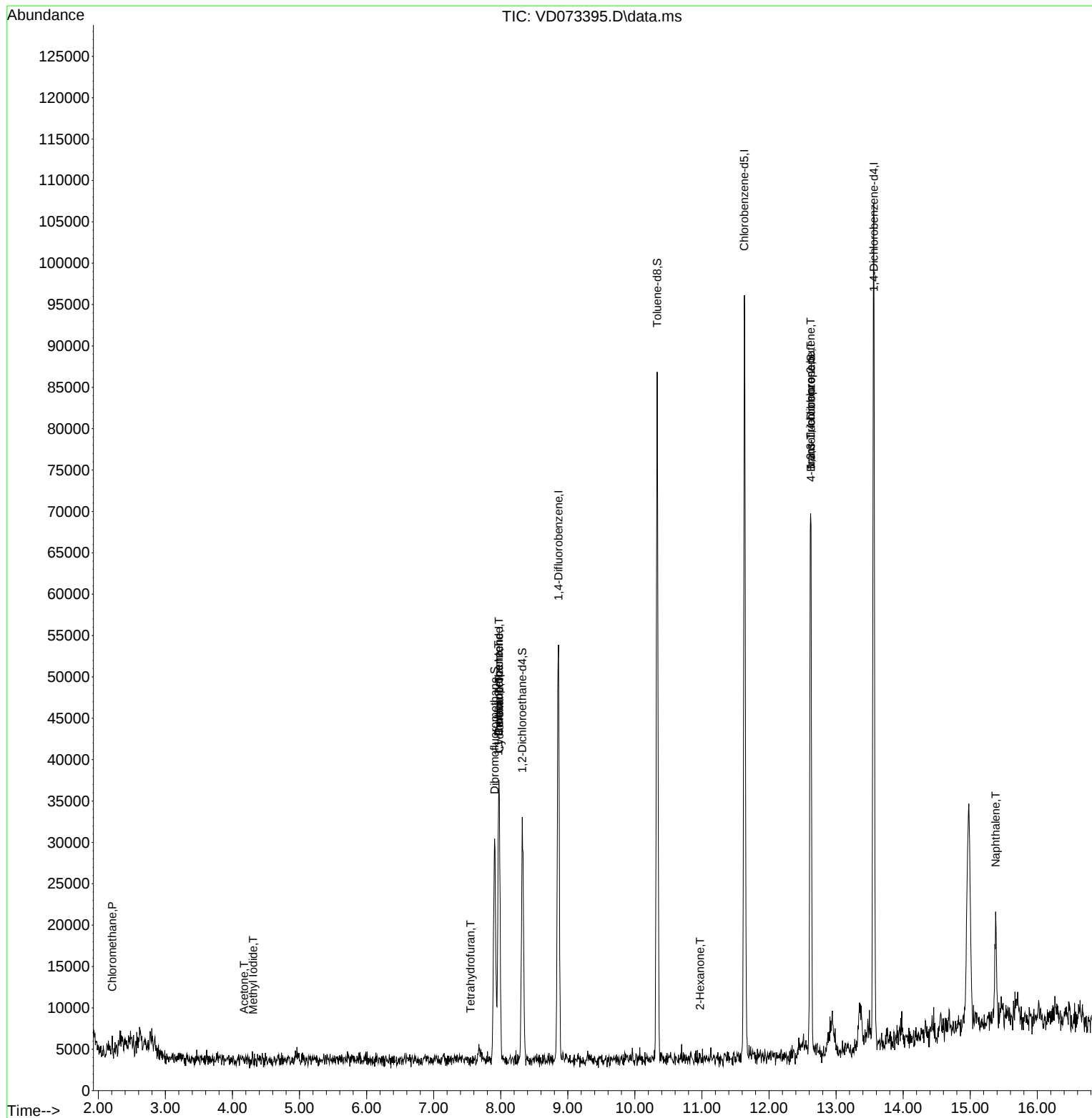
| Compound                      | R.T. QIon |       | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|-------------|----------|
| -----                         |           |       |          |           |             |          |
| Internal Standards            |           |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.973     | 168   | 24935    | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861     | 114   | 41874    | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.632    | 117   | 52135    | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561    | 152   | 26768    | 50.000    | ug/l        | 0.00     |
| System Monitoring Compounds   |           |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.320     | 65    | 22794    | 82.717    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 165.440%# |          |
| 35) Dibromofluoromethane      | 7.909     | 113   | 18980    | 68.690    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 137.380%  |          |
| 50) Toluene-d8                | 10.332    | 98    | 54899    | 53.899    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 107.800%  |          |
| 62) 4-Bromofluorobenzene      | 12.626    | 95    | 24742    | 69.217    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 138.440%  |          |
| Target Compounds              |           |       |          |           |             |          |
|                               |           |       |          |           | Qvalue      |          |
| 3) Chloromethane              | 2.209     | 50    | 624      | 2.215     | ug/l #      | 40       |
| 10) Methyl Iodide             | 4.309     | 142   | 392      | 1.337     | ug/l #      | 54       |
| 16) Acetone                   | 4.173     | 43    | 79       | 1.655     | ug/l #      | 47       |
| 20) Methylene Chloride        | 4.979     | 84    | 388      | Below Cal | #           | 24       |
| 29) Tetrahydrofuran           | 7.550     | 42    | 65       | 1.439     | ug/l #      | 38       |
| 31) Cyclohexane               | 7.979     | 56    | 673      | 1.398     | ug/l #      | 63       |
| 36) 1,1-Dichloropropene       | 7.967     | 75    | 1362     | 3.277     | ug/l #      | 43       |
| 38) Carbon Tetrachloride      | 7.973     | 117   | 3247     | 7.708     | ug/l #      | 13       |
| 59) 2-Hexanone                | 10.973    | 43    | 125      | 1.203     | ug/l #      | 27       |
| 76) 1,2,3-Trichloropropane    | 12.620    | 75    | 11580    | 44.091    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620    | 75    | 11580    | 105.848   | ug/l #      | 7        |
| 95) Naphthalene               | 15.379    | 128   | 11803    | 16.061    | ug/l        | 98       |
| -----                         |           |       |          |           |             |          |

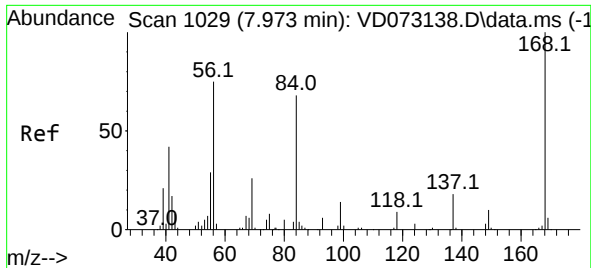
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
ClientSampleId :  
IG1

Quant Time: May 27 01:33:23 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

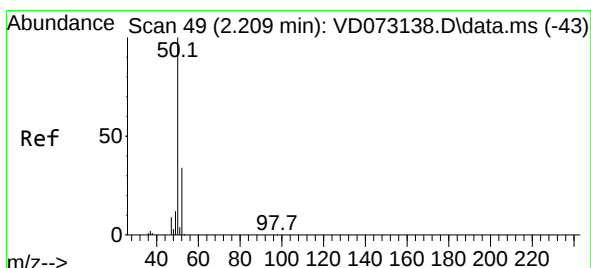
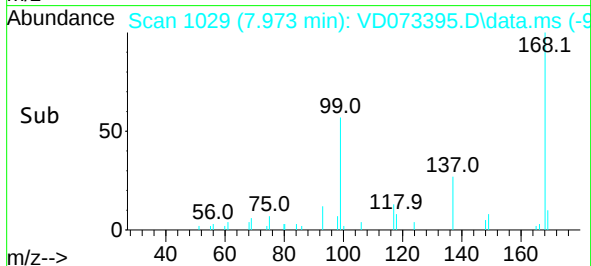
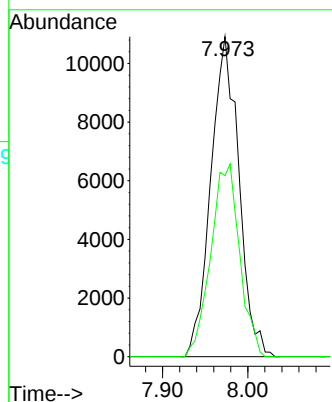
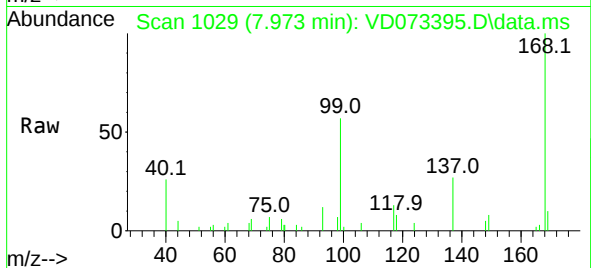




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

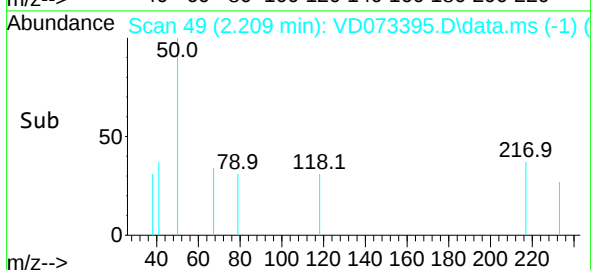
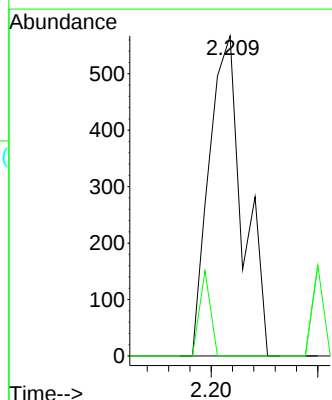
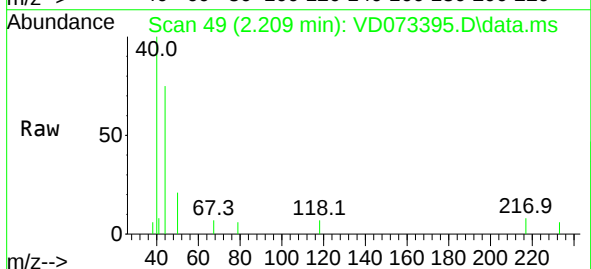
Instrument :  
MSVOA\_D  
ClientSampleId :  
IG1

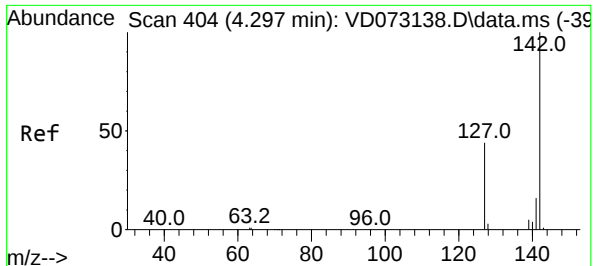
Tgt Ion:168 Resp: 24935  
Ion Ratio Lower Upper  
168 100  
99 56.6 49.8 74.6



#3  
Chloromethane  
Concen: 2.215 ug/l  
RT: 2.209 min Scan# 49  
Delta R.T. -0.000 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

Tgt Ion: 50 Resp: 624  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.4 41.0#

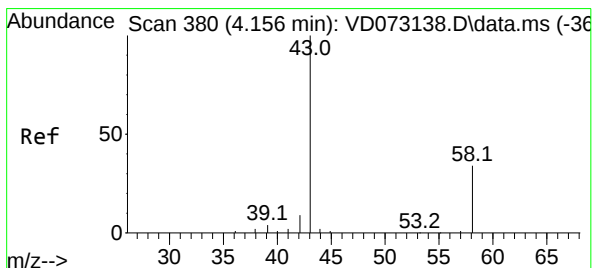
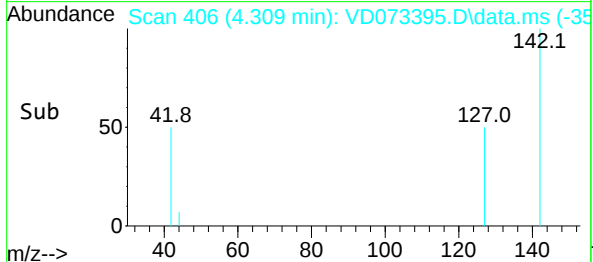
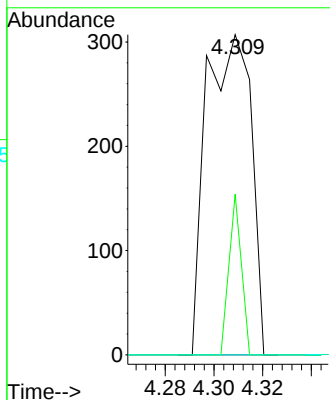
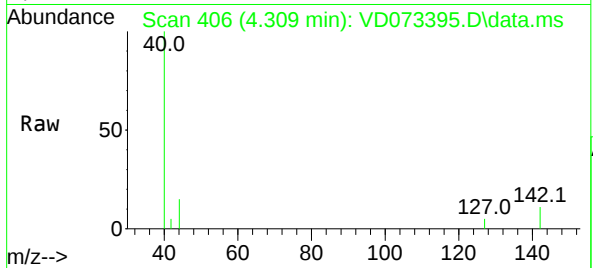




#10  
Methyl Iodide  
Concen: 1.337 ug/l  
RT: 4.309 min Scan# 406  
Delta R.T. 0.012 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

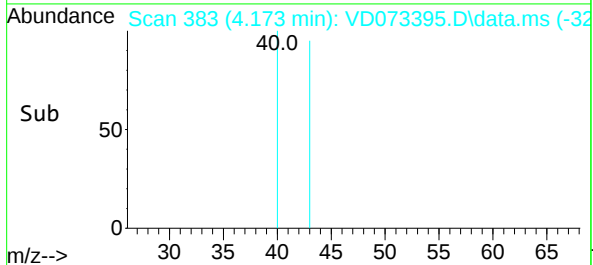
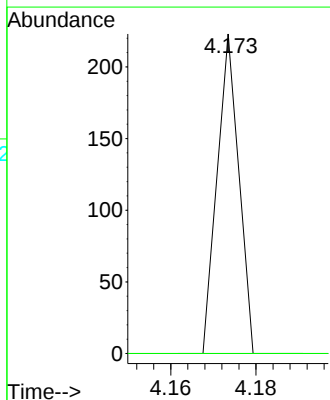
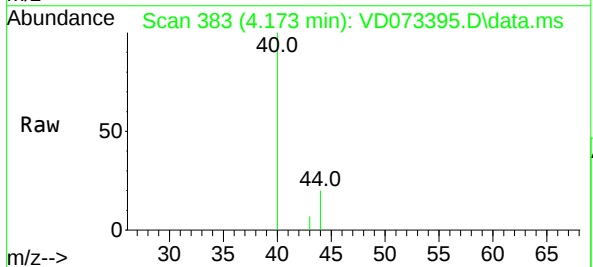
Instrument :  
MSVOA\_D  
ClientSampleId :  
IG1

Tgt Ion:142 Resp: 392  
Ion Ratio Lower Upper  
142 100  
127 13.8 37.3 55.9#  
141 0.0 11.7 17.5#



#16  
Acetone  
Concen: 1.655 ug/l  
RT: 4.173 min Scan# 383  
Delta R.T. 0.017 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

Tgt Ion: 43 Resp: 79  
Ion Ratio Lower Upper  
43 100  
58 0.0 22.1 33.1#

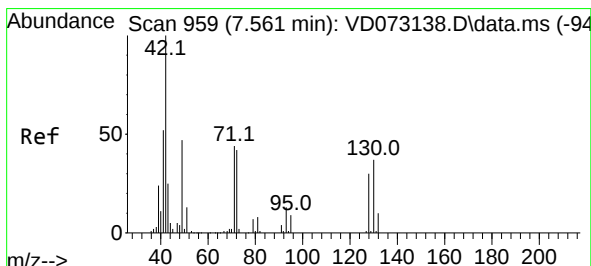
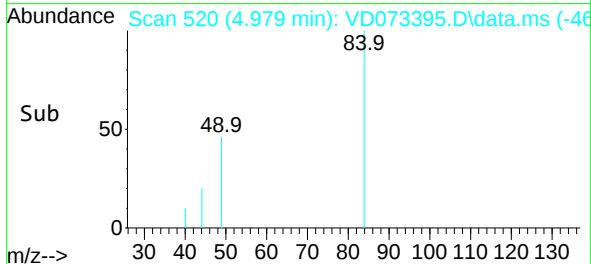
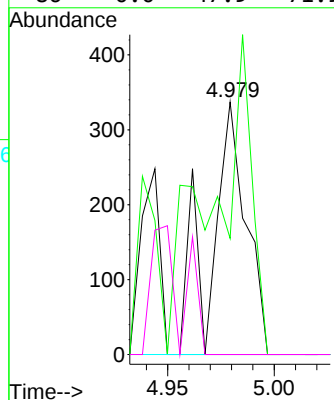
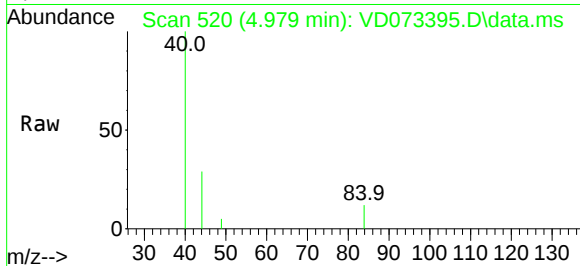




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.979 min Scan# 51  
Delta R.T. 0.017 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

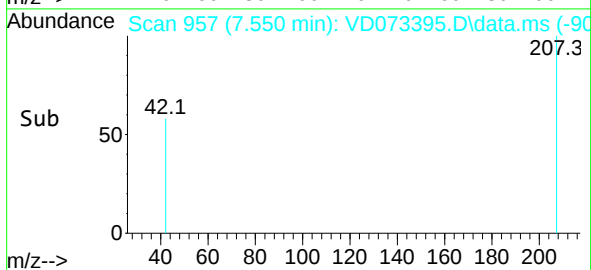
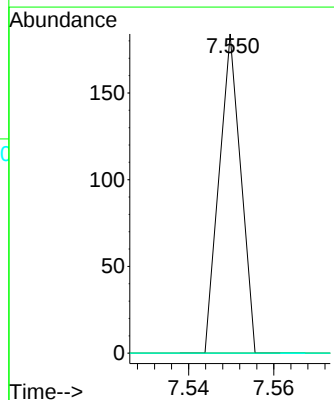
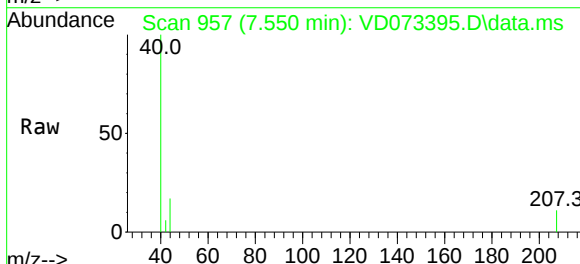
Instrument :  
MSVOA\_D  
ClientSampleId :  
IG1

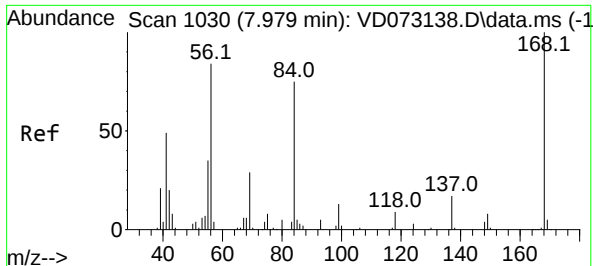
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 388    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 46.0  | 112.8 | 169.2# |
| 51       | 0.0   | 32.6  | 48.8#  |
| 86       | 0.0   | 47.9  | 71.9#  |



#29  
Tetrahydrofuran  
Concen: 1.439 ug/l  
RT: 7.550 min Scan# 957  
Delta R.T. -0.011 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 65    |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 30.7  | 46.1# |
| 71       | 0.0   | 28.6  | 43.0# |

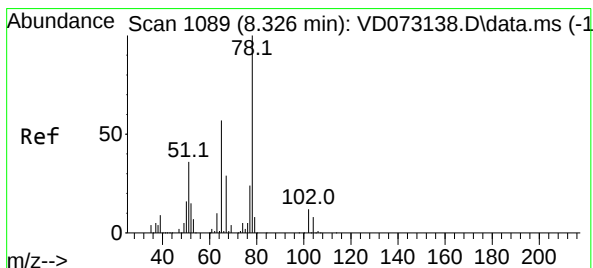
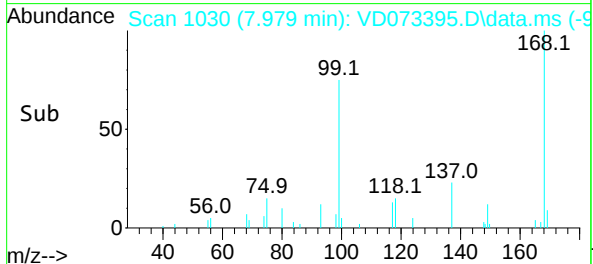
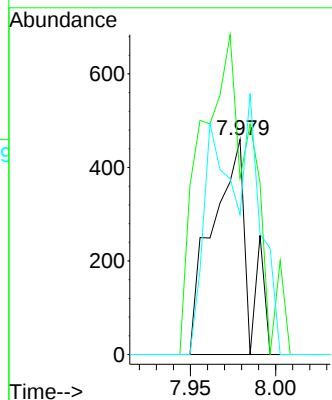
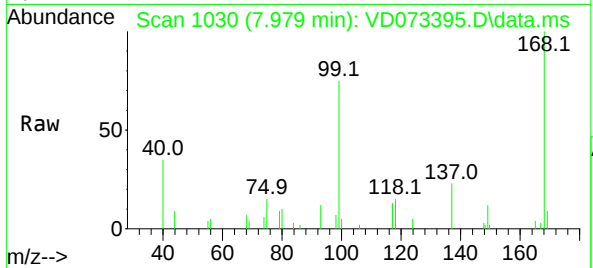




#31  
Cyclohexane  
Concen: 1.398 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

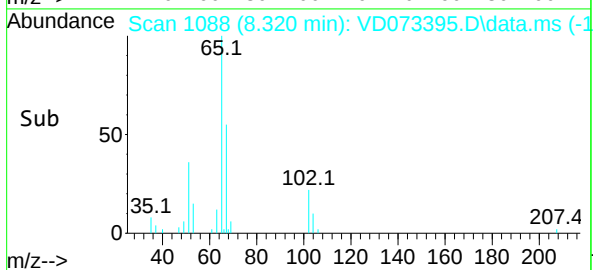
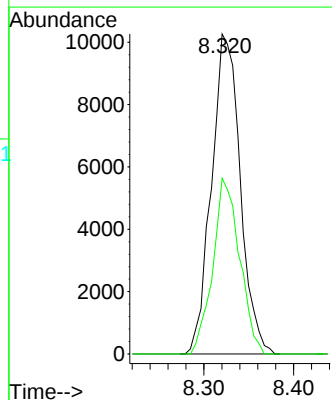
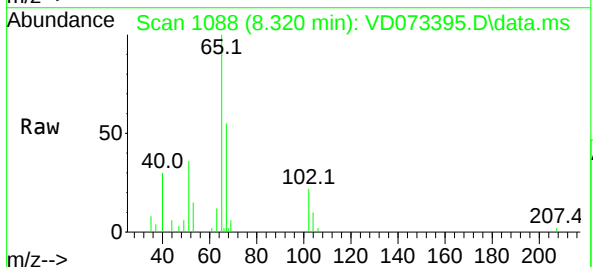
Instrument :  
MSVOA\_D  
ClientSampleId :  
IG1

Tgt Ion: 56 Resp: 673  
Ion Ratio Lower Upper  
56 100  
69 82.0 25.4 38.2#  
84 65.0 63.0 94.4



#33  
1,2-Dichloroethane-d4  
Concen: 82.717 ug/l  
RT: 8.320 min Scan# 1088  
Delta R.T. -0.006 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

Tgt Ion: 65 Resp: 22794  
Ion Ratio Lower Upper  
65 100  
67 51.1 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: VD073395.D

Acq: 26 May 2022 18:30

Instrument :

MSVOA\_D

ClientSampleId :

IG1

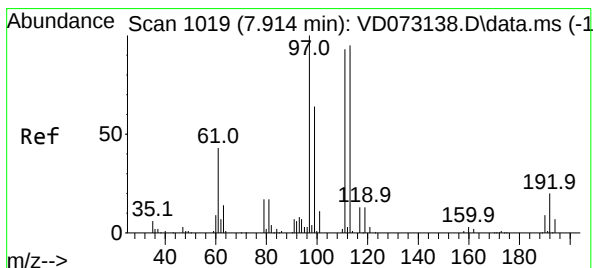
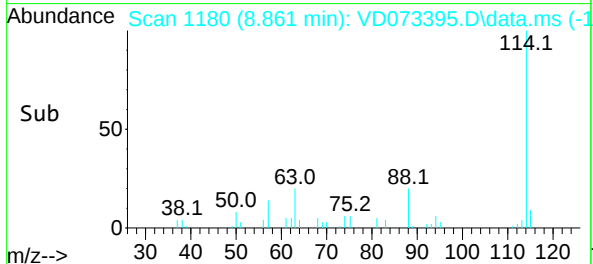
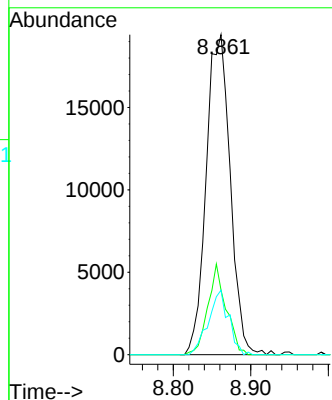
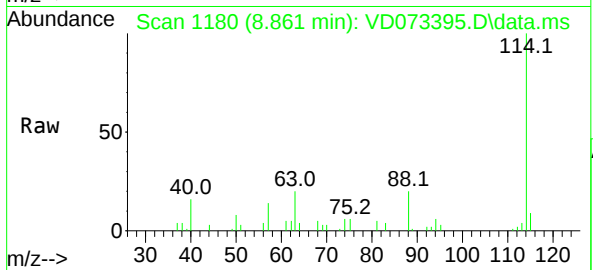
Tgt Ion:114 Resp: 41874

Ion Ratio Lower Upper

114 100

63 20.2 0.0 46.6

88 20.1 0.0 33.2



#35

Dibromofluoromethane

Concen: 68.690 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.005 min

Lab File: VD073395.D

Acq: 26 May 2022 18:30

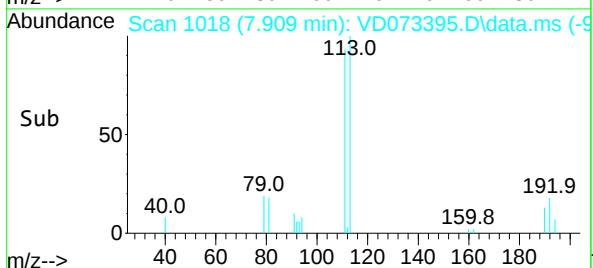
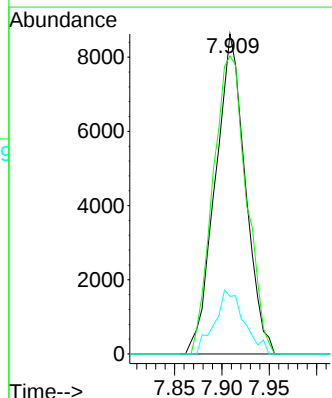
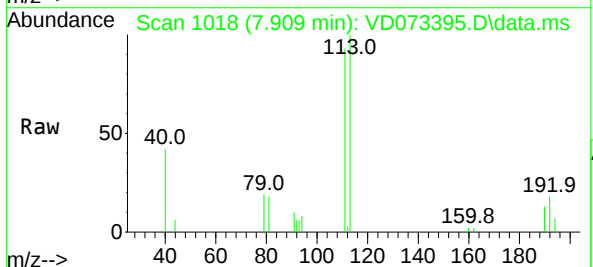
Tgt Ion:113 Resp: 18980

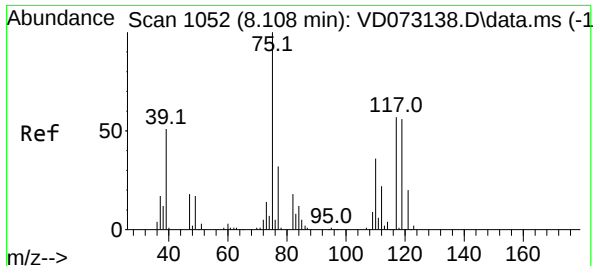
Ion Ratio Lower Upper

113 100

111 104.1 83.8 125.6

192 19.5 14.6 21.8





#36

1,1-Dichloropropene

Concen: 3.277 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.141 min

Lab File: VD073395.D

Acq: 26 May 2022 18:30

Instrument :

MSVOA\_D

ClientSampleId :

IG1

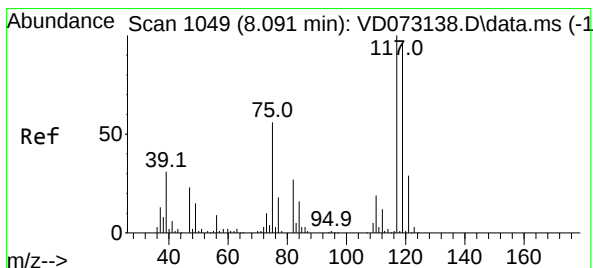
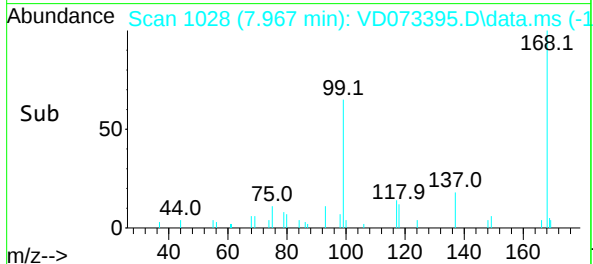
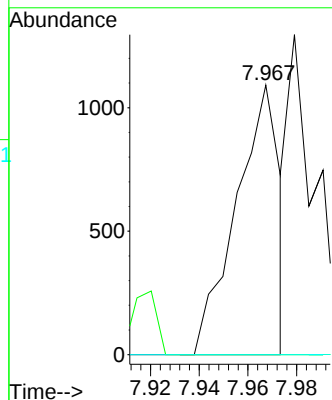
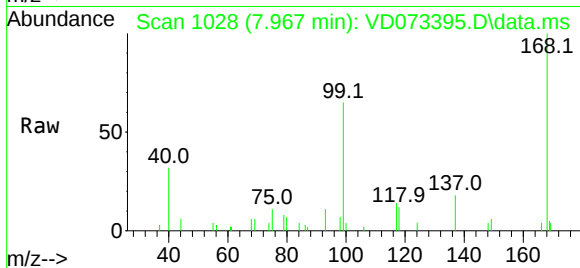
Tgt Ion: 75 Resp: 1362

Ion Ratio Lower Upper

75 100

110 0.0 16.4 49.1#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 7.708 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.118 min

Lab File: VD073395.D

Acq: 26 May 2022 18:30

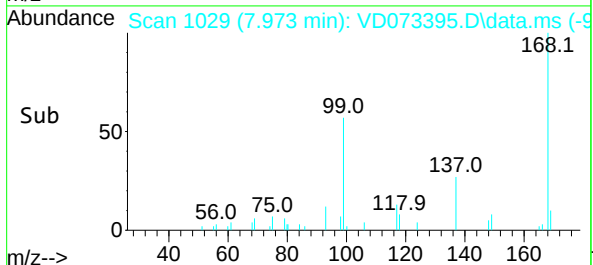
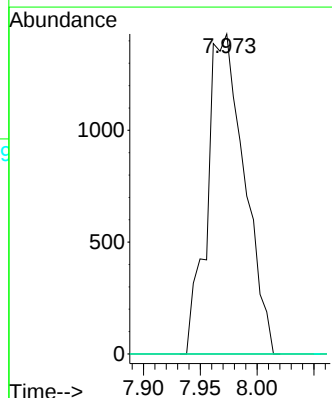
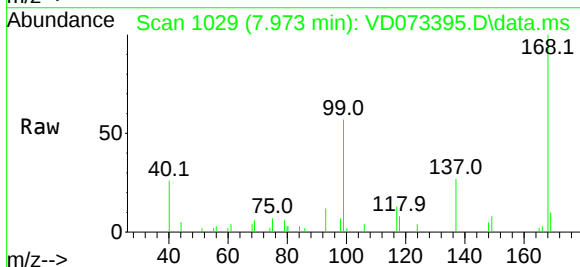
Tgt Ion: 117 Resp: 3247

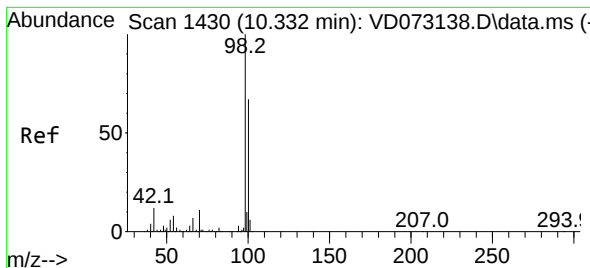
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

121 0.0 24.5 36.7#

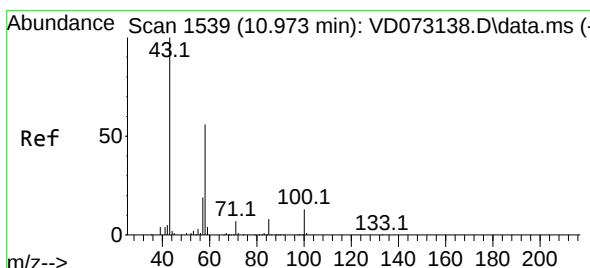
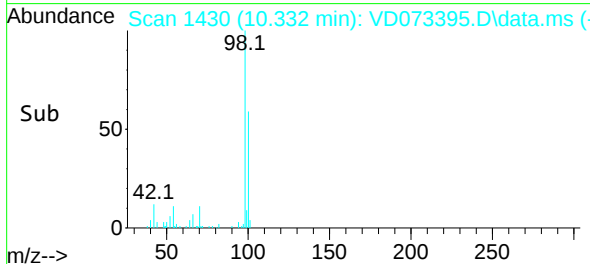
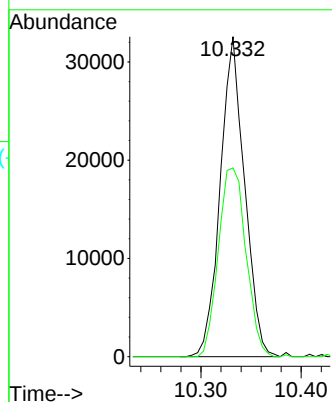
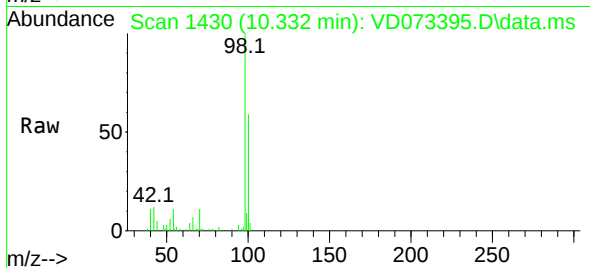




#50  
Toluene-d8  
Concen: 53.899 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

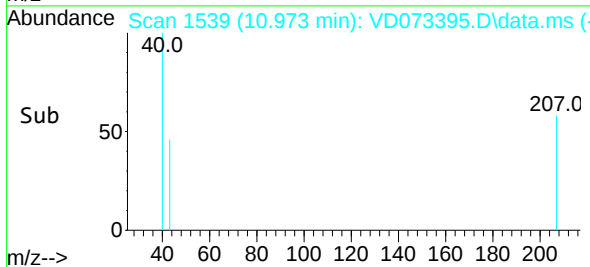
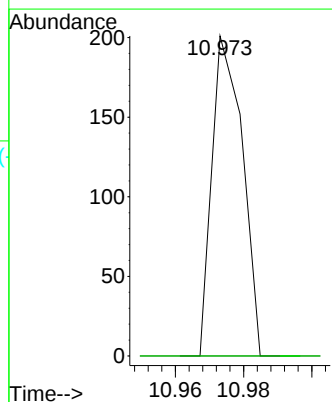
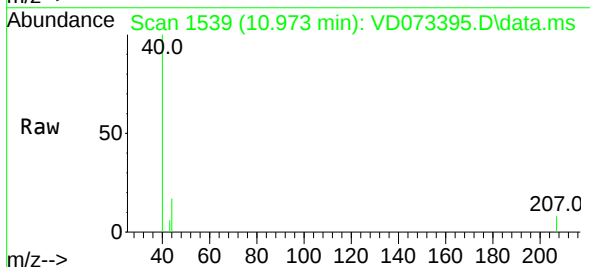
Instrument :  
MSVOA\_D  
ClientSampleId :  
IG1

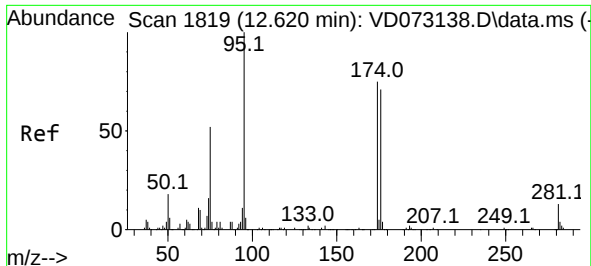
Tgt Ion: 98 Resp: 54899  
Ion Ratio Lower Upper  
98 100  
100 66.9 52.4 78.6



#59  
2-Hexanone  
Concen: 1.203 ug/l  
RT: 10.973 min Scan# 1539  
Delta R.T. 0.000 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

Tgt Ion: 43 Resp: 125  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.3 75.9#

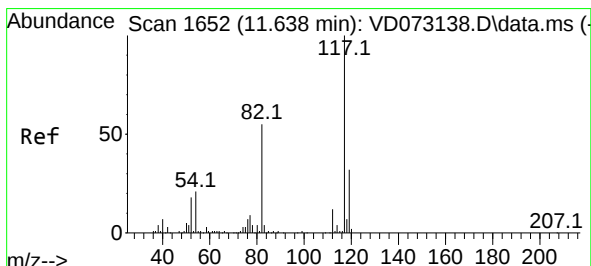
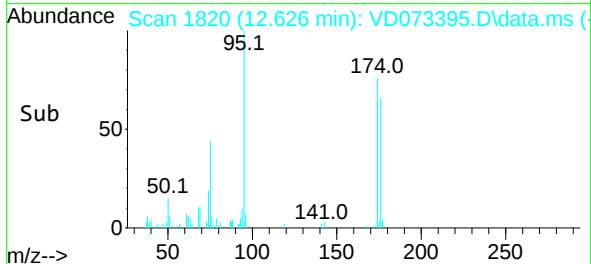
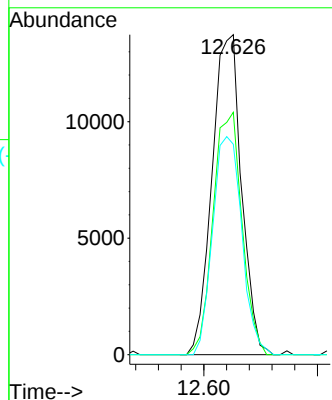
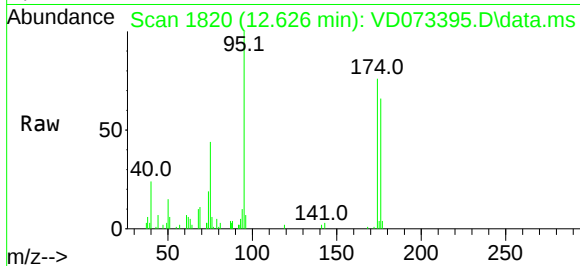




#62  
4-Bromofluorobenzene  
Concen: 69.217 ug/l  
RT: 12.626 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

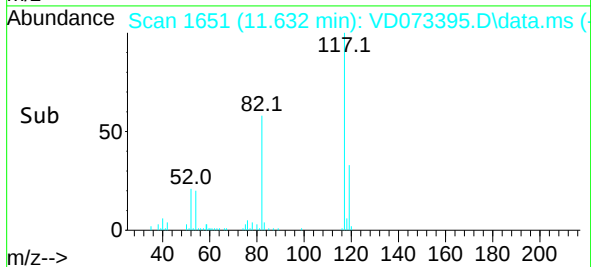
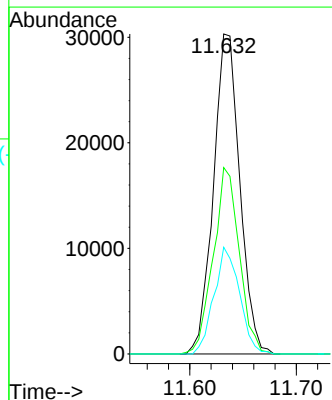
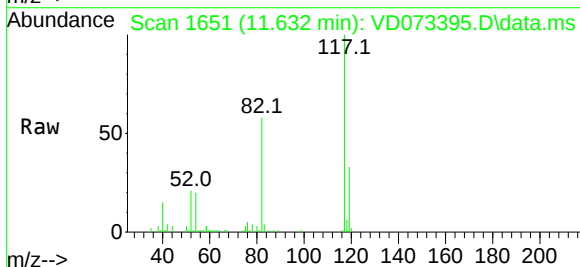
Instrument :  
MSVOA\_D  
ClientSampleId :  
IG1

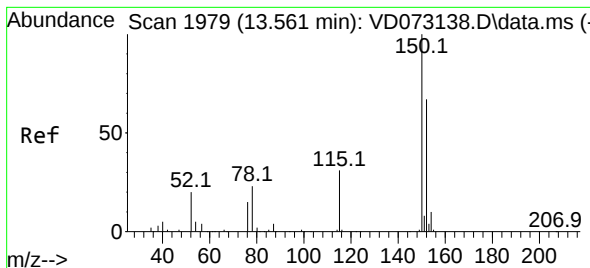
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 95    | Resp: | 24742 |
| Ion Ratio | Lower | Upper |       |
| 95        | 100   |       |       |
| 174       | 74.1  | 0.0   | 152.8 |
| 176       | 67.6  | 0.0   | 145.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. -0.006 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 52135 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 58.3  | 45.3  | 67.9  |
| 119       | 33.4  | 26.6  | 40.0  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.561 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VD073395.D

Acq: 26 May 2022 18:30

Instrument :

MSVOA\_D

ClientSampleId :

IG1

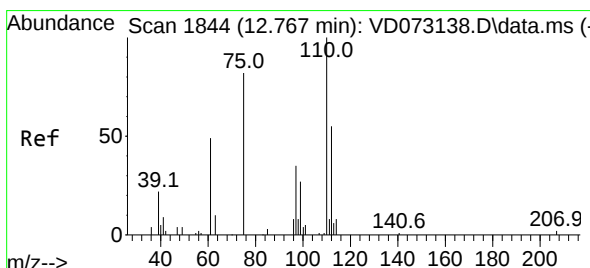
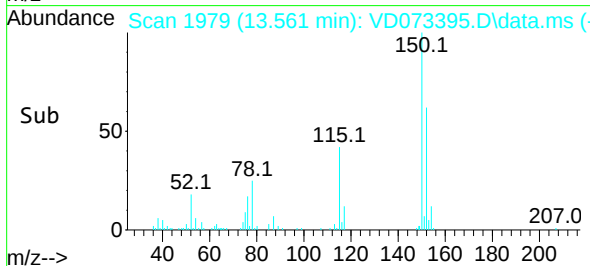
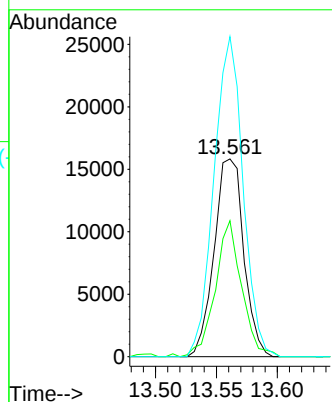
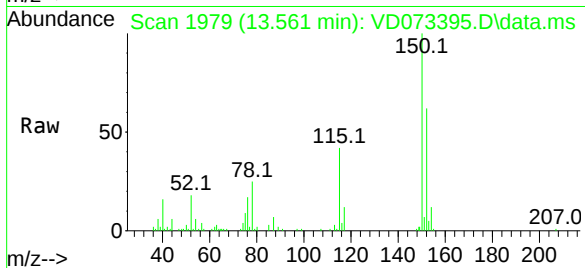
Tgt Ion:152 Resp: 26768

Ion Ratio Lower Upper

152 100

115 61.3 31.3 93.8

150 158.9 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 44.091 ug/l

RT: 12.620 min Scan# 1819

Delta R.T. -0.147 min

Lab File: VD073395.D

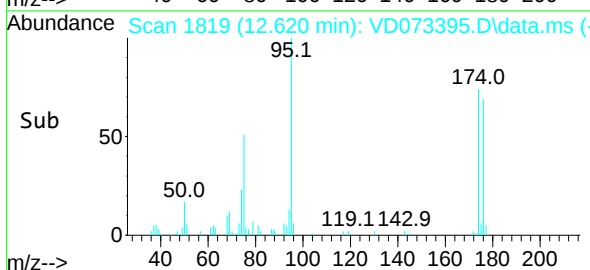
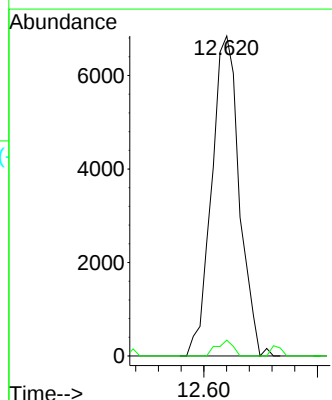
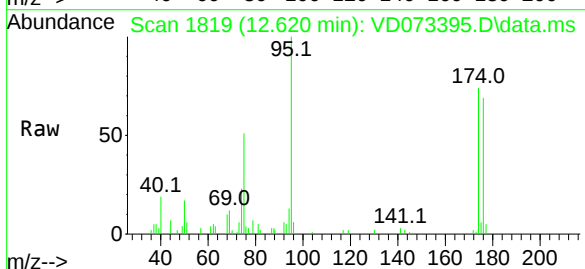
Acq: 26 May 2022 18:30

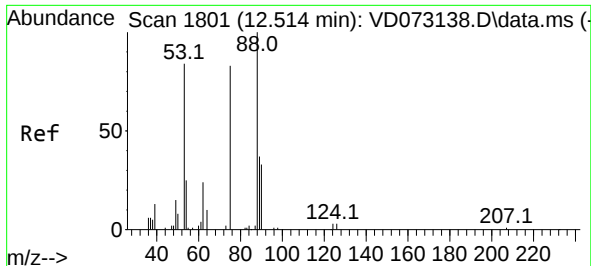
Tgt Ion: 75 Resp: 11580

Ion Ratio Lower Upper

75 100

77 2.9 0.0 0.0#

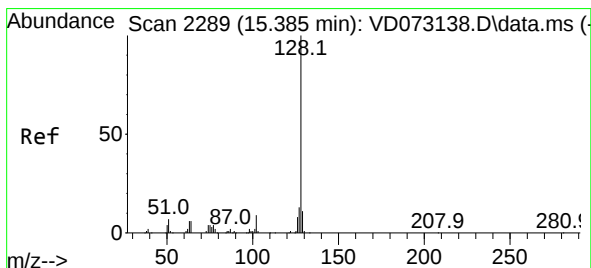
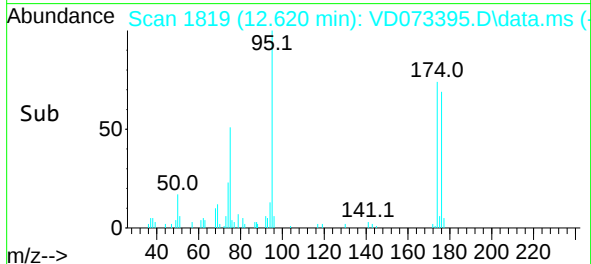
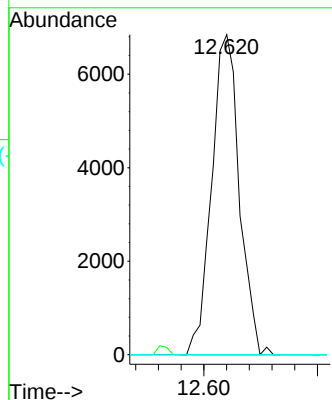
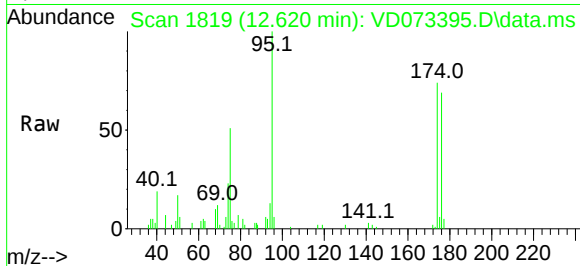




#81  
trans-1,4-Dichloro-2-butene  
Concen: 105.848 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

Instrument :  
MSVOA\_D  
ClientSampleId :  
IG1

Tgt Ion: 75 Resp: 11580  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.0 33.9 50.9#



#95  
Naphthalene  
Concen: 16.061 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.006 min  
Lab File: VD073395.D  
Acq: 26 May 2022 18:30

Tgt Ion: 128 Resp: 11803  
Ion Ratio Lower Upper  
128 100  
127 13.8 10.3 15.5  
129 10.2 8.4 12.6

