

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051322\  
 Data File : VD073020.D  
 Acq On : 14 May 2022 06:44  
 Operator : VA/SY  
 Sample : N2823-06  
 Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SC-6

Quant Time: May 16 05:21:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 2022  
 Response via : Initial Calibration

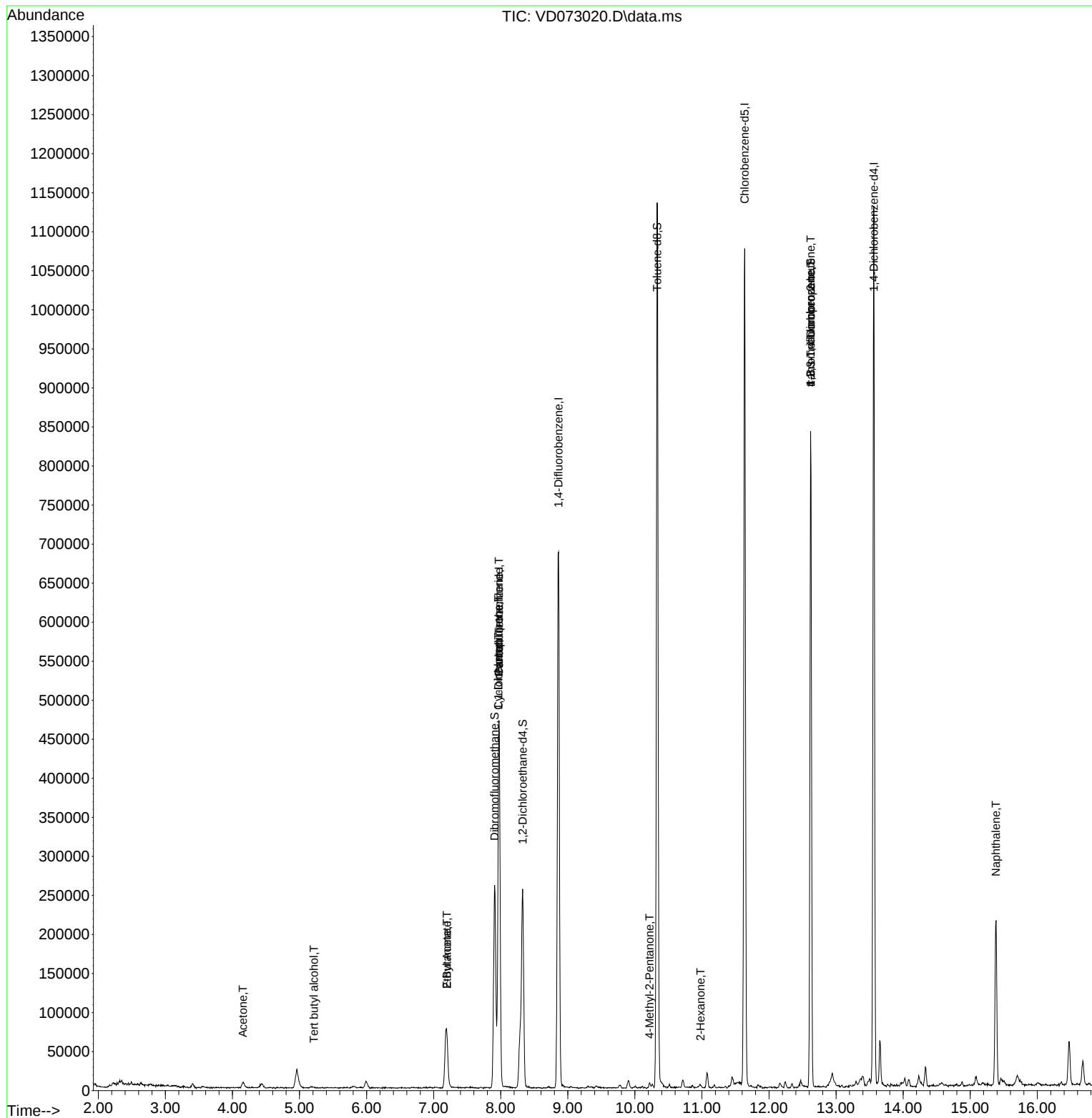
| Compound                      | R.T.           | QIon | Response   | Conc           | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------------|--------|----------|
| -----                         |                |      |            |                |        |          |
| Internal Standards            |                |      |            |                |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 345319     | 50.000         | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 605306     | 50.000         | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 615956     | 50.000         | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 291146     | 50.000         | ug/l   | 0.00     |
|                               |                |      |            |                |        |          |
| System Monitoring Compounds   |                |      |            |                |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 200121     | 44.645         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 89.280%        |        |          |
| 35) Dibromofluoromethane      | 7.908          | 113  | 187968     | 44.216         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 88.440%        |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 737967     | 48.394         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 96.780%        |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 278707     | 49.016         | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 98.040%        |        |          |
|                               |                |      |            |                |        |          |
| Target Compounds              |                |      |            |                |        |          |
|                               |                |      |            |                | Qvalue |          |
| 5) Bromomethane               | 2.779          | 94   | 684        | Below Cal      |        | 90       |
| 11) Tert butyl alcohol        | 5.214          | 59   | 604        | 1.557 ug/l #   |        | 74       |
| 16) Acetone                   | 4.156          | 43   | 13392      | 2.139 ug/l #   |        | 88       |
| 18) Methyl Acetate            | 4.532          | 43   | 78         | Below Cal #    |        | 55       |
| 20) Methylene Chloride        | 4.956          | 84   | 17552      | Below Cal #    |        | 72       |
| 25) 2-Butanone                | 7.197          | 43   | 7272       | 5.568 ug/l     |        | 95       |
| 31) Cyclohexane               | 7.967          | 56   | 7945       | 1.014 ug/l #   |        | 1        |
| 36) 1,1-Dichloropropene       | 7.967          | 75   | 27776      | 4.018 ug/l #   |        | 53       |
| 37) Ethyl Acetate             | 7.197          | 43   | 7272       | 2.288 ug/l #   |        | 16       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 36306      | 5.060 ug/l #   |        | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.220         | 43   | 4237       | 1.390 ug/l     |        | 93       |
| 59) 2-Hexanone                | 10.979         | 43   | 2943       | 1.435 ug/l     |        | 100      |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 142698     | 43.955 ug/l #  |        | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 142698     | 101.078 ug/l # |        | 7        |
| 95) Naphthalene               | 15.385         | 128  | 189470     | 18.426 ug/l    |        | 99       |
| -----                         |                |      |            |                |        |          |

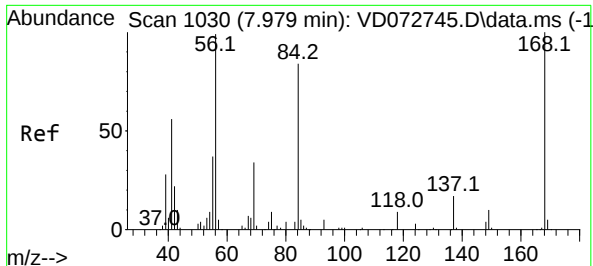
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051322\  
Data File : VD073020.D  
Acq On : 14 May 2022 06:44  
Operator : VA/SY  
Sample : N2823-06  
Misc : 5.06G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-6

Quant Time: May 16 05:21:17 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 03 08:33:49 2022  
Response via : Initial Calibration

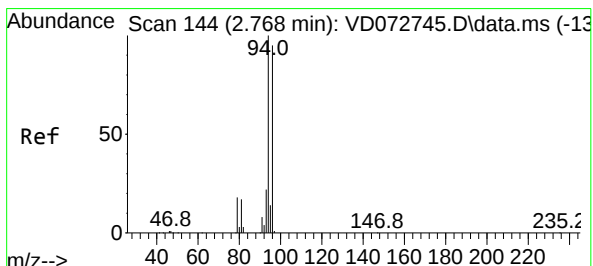
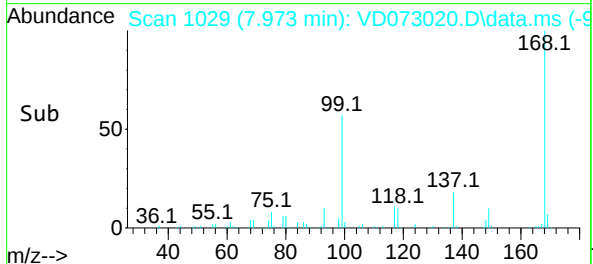
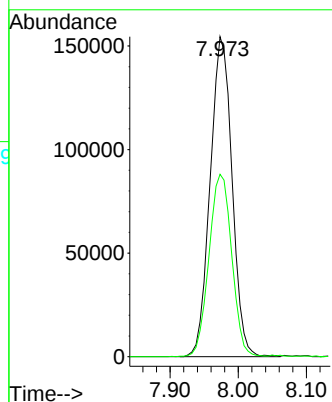
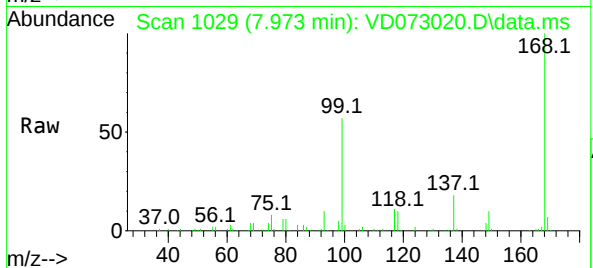




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

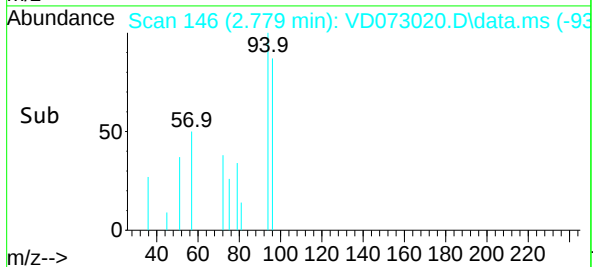
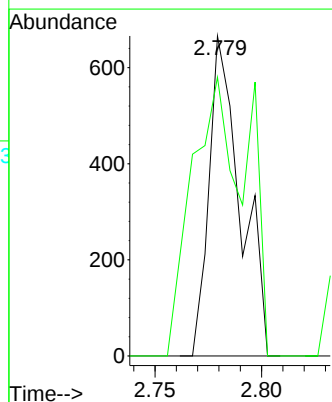
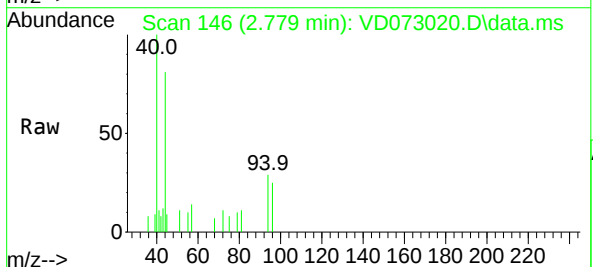
Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-6

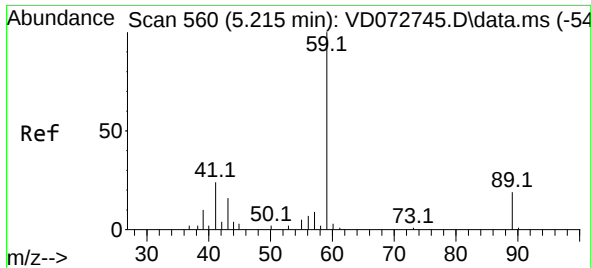
Tgt Ion:168 Resp: 345319  
Ion Ratio Lower Upper  
168 100  
99 56.9 49.8 74.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.011 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Tgt Ion: 94 Resp: 684  
Ion Ratio Lower Upper  
94 100  
96 87.1 77.6 116.4





#11

Tert butyl alcohol

Concen: 1.557 ug/l

RT: 5.214 min Scan# 50

Delta R.T. -0.001 min

Lab File: VD073020.D

Acq: 14 May 2022 06:44

Instrument :

MSVOA\_D

ClientSampleId :

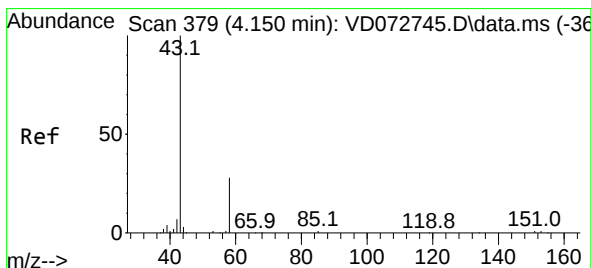
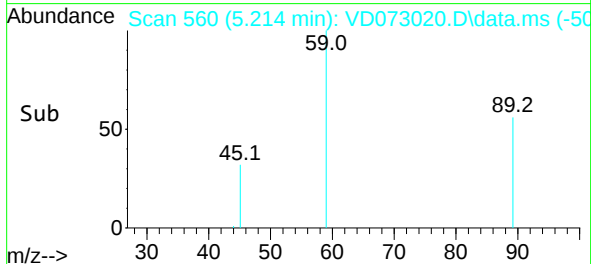
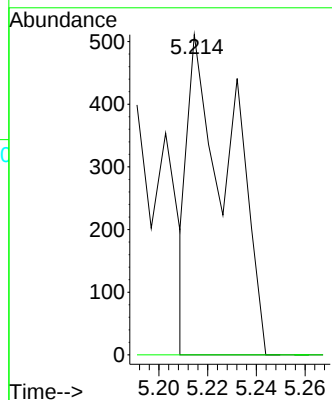
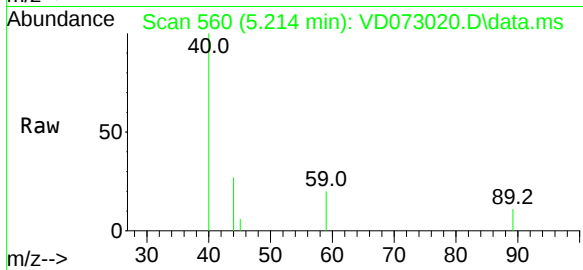
SC-6

Tgt Ion: 59 Resp: 604

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#16

Acetone

Concen: 2.139 ug/l

RT: 4.156 min Scan# 380

Delta R.T. 0.006 min

Lab File: VD073020.D

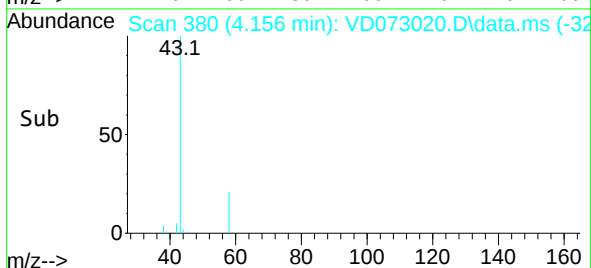
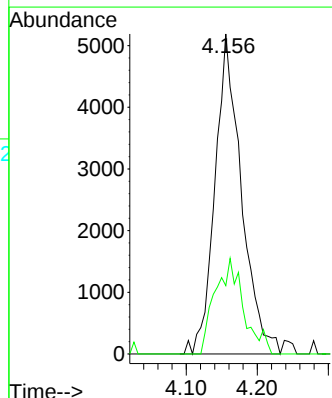
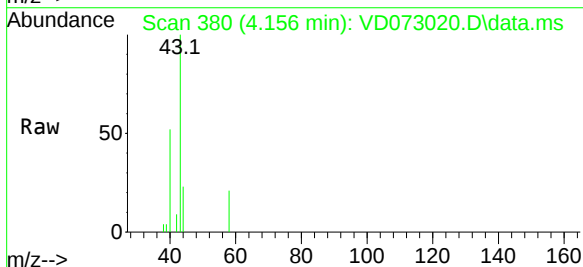
Acq: 14 May 2022 06:44

Tgt Ion: 43 Resp: 13392

Ion Ratio Lower Upper

43 100

58 21.4 22.1 33.1#



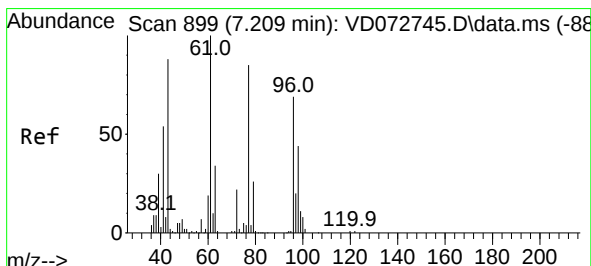
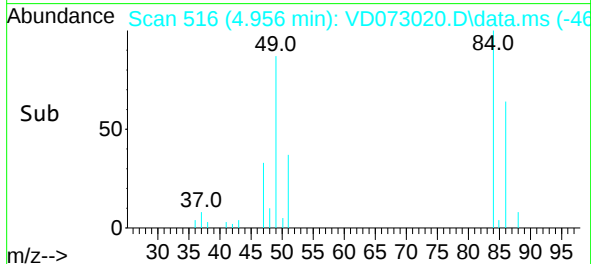
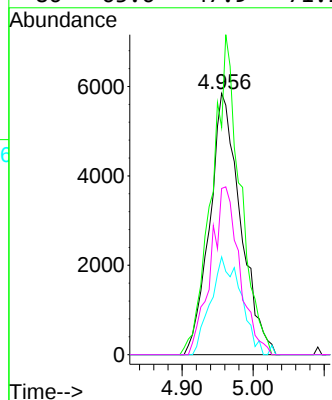
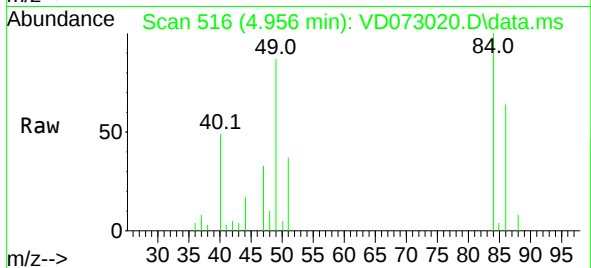


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 517  
Delta R.T. -0.006 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-6

Tgt Ion: 84 Resp: 17552

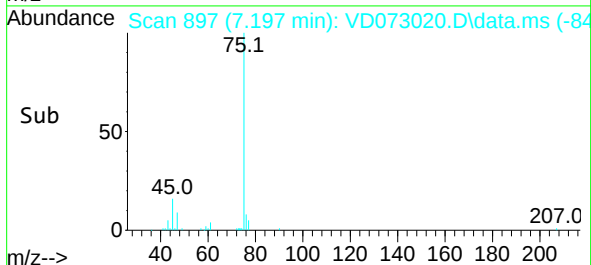
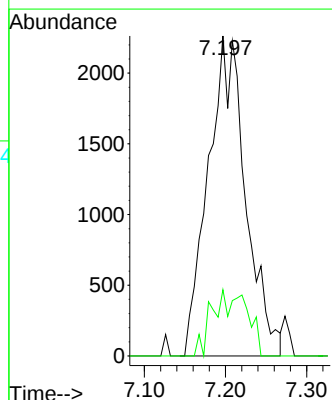
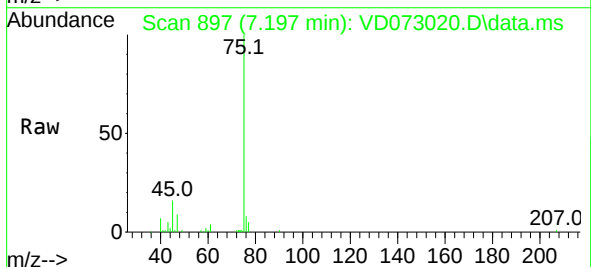
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 87.0  | 112.8 | 169.2# |
| 51  | 37.4  | 32.6  | 48.8   |
| 86  | 63.6  | 47.9  | 71.9   |

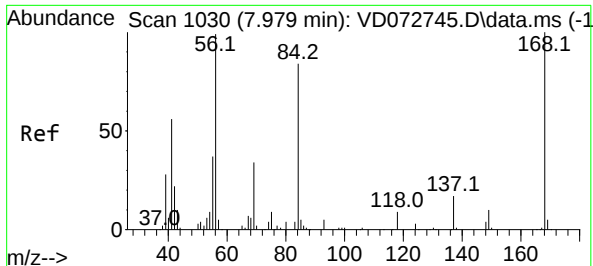


#25  
2-Butanone  
Concen: 5.568 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.012 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Tgt Ion: 43 Resp: 7272

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 20.7  | 18.6  | 27.8  |





#31

Cyclohexane

Concen: 1.014 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.012 min

Lab File: VD073020.D

Acq: 14 May 2022 06:44

Instrument :

MSVOA\_D

ClientSampleId :

SC-6

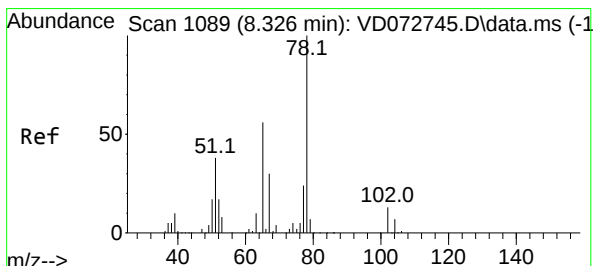
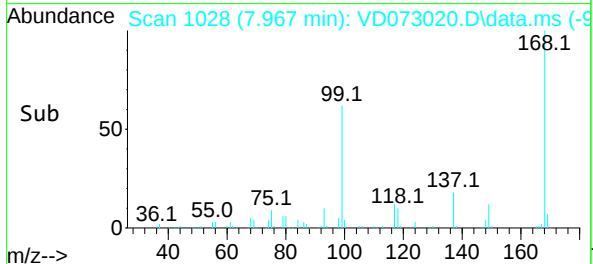
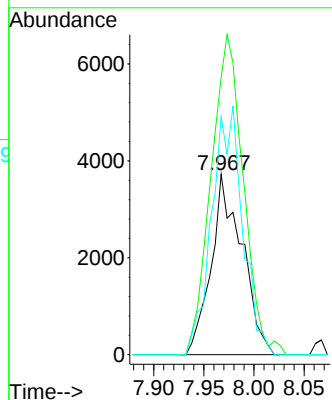
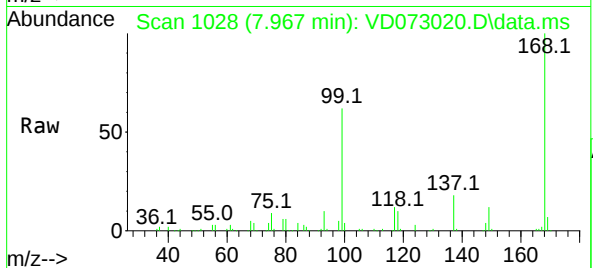
Tgt Ion: 56 Resp: 7945

Ion Ratio Lower Upper

56 100

69 153.8 25.4 38.2#

84 132.0 63.0 94.4#



#33

1,2-Dichloroethane-d4

Concen: 44.645 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD073020.D

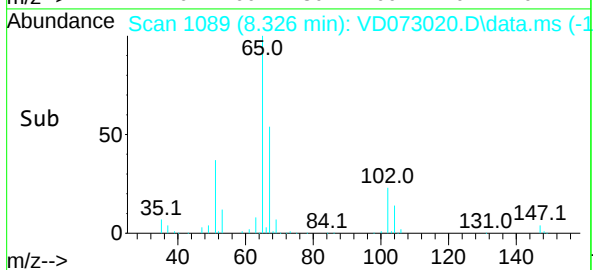
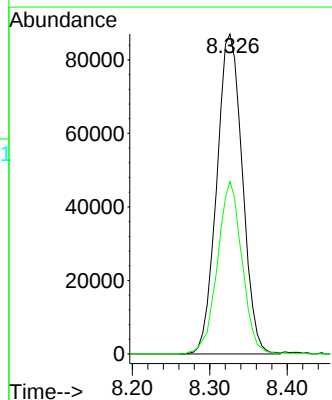
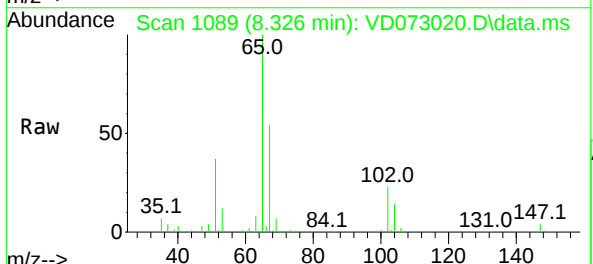
Acq: 14 May 2022 06:44

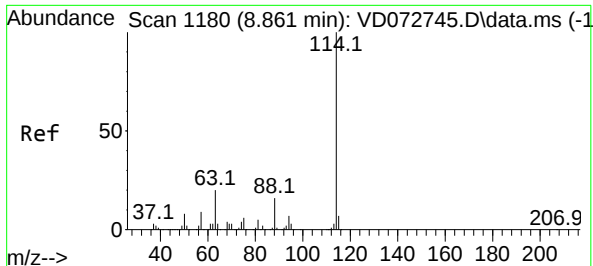
Tgt Ion: 65 Resp: 200121

Ion Ratio Lower Upper

65 100

67 51.8 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD073020.D

Acq: 14 May 2022 06:44

Instrument :

MSVOA\_D

ClientSampleId :

SC-6

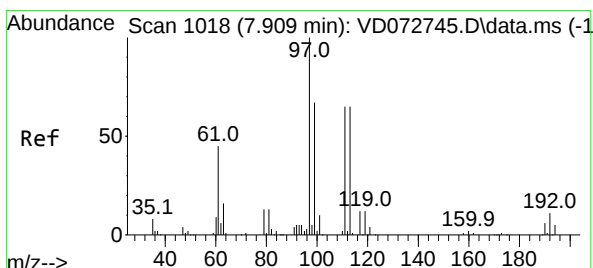
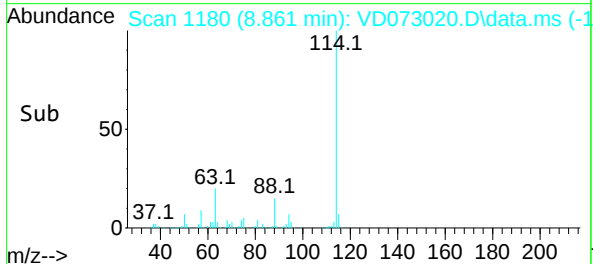
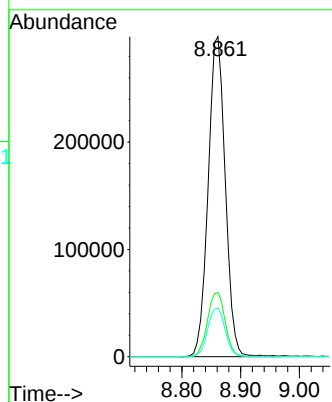
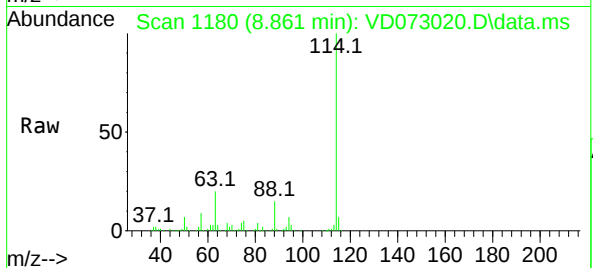
Tgt Ion:114 Resp: 605306

Ion Ratio Lower Upper

114 100

63 20.1 0.0 46.6

88 15.2 0.0 33.2



#35

Dibromofluoromethane

Concen: 44.216 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.001 min

Lab File: VD073020.D

Acq: 14 May 2022 06:44

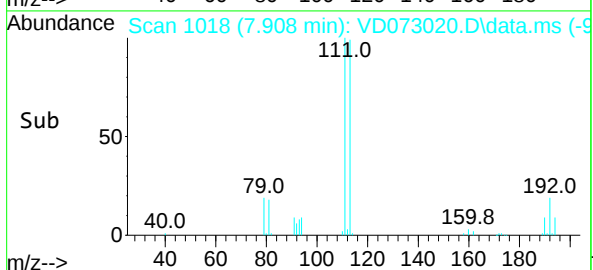
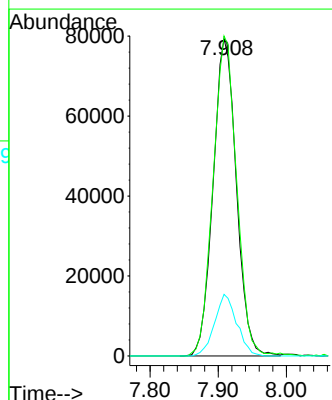
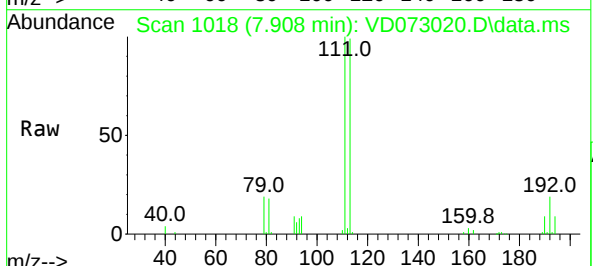
Tgt Ion:113 Resp: 187968

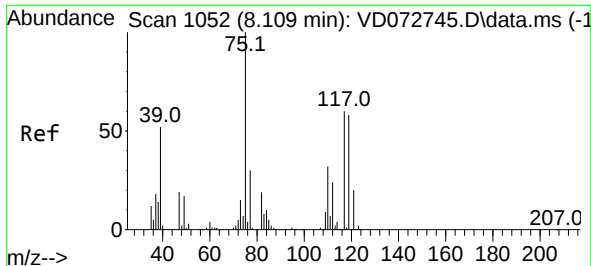
Ion Ratio Lower Upper

113 100

111 101.8 83.8 125.6

192 18.6 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.018 ug/l

RT: 7.967 min Scan# 1052

Delta R.T. -0.142 min

Lab File: VD073020.D

Acq: 14 May 2022 06:44

Instrument :

MSVOA\_D

ClientSampleId :

SC-6

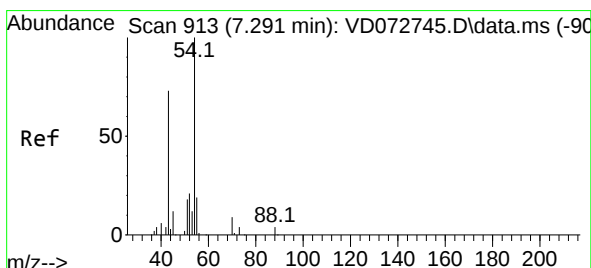
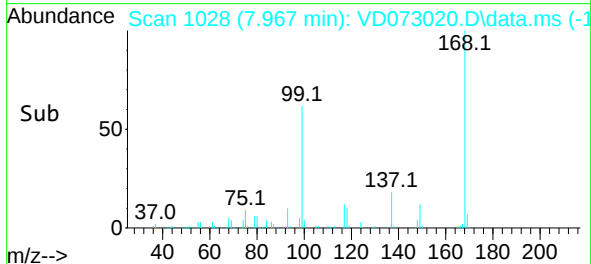
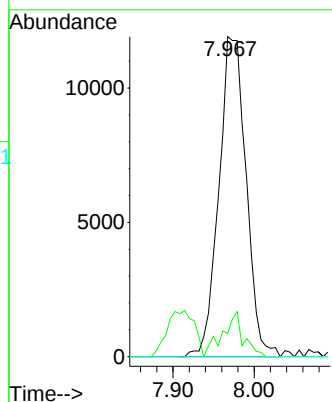
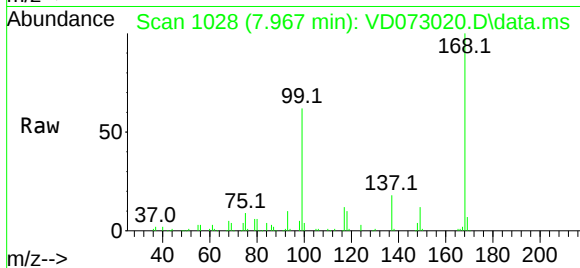
Tgt Ion: 75 Resp: 27776

Ion Ratio Lower Upper

75 100

110 10.6 16.4 49.1#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 2.288 ug/l

RT: 7.197 min Scan# 897

Delta R.T. -0.094 min

Lab File: VD073020.D

Acq: 14 May 2022 06:44

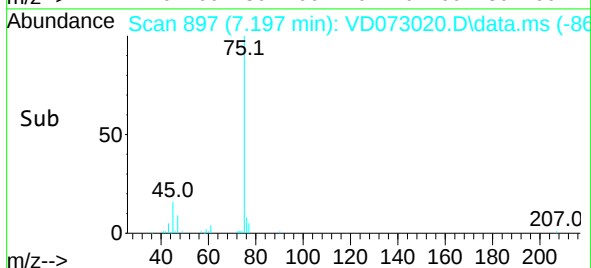
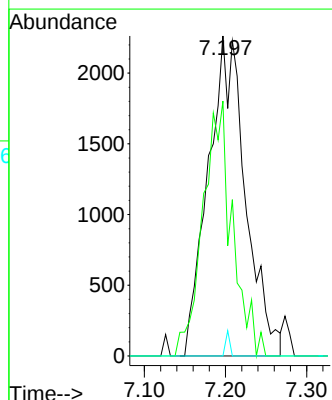
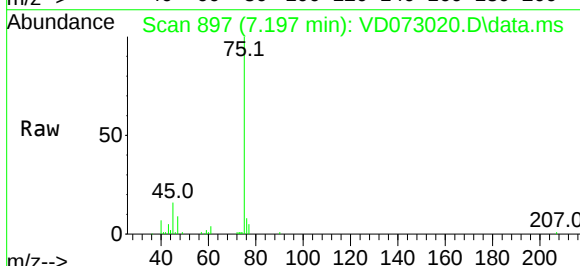
Tgt Ion: 43 Resp: 7272

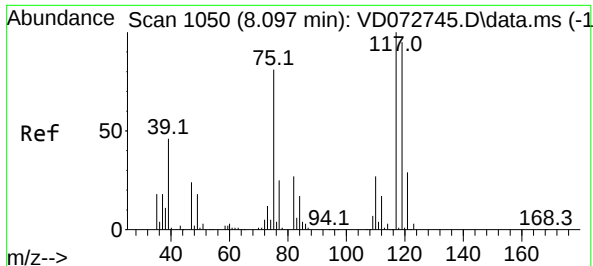
Ion Ratio Lower Upper

43 100

61 62.2 9.8 14.8#

70 0.9 6.9 10.3#

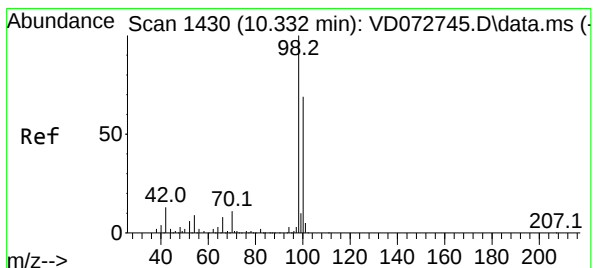
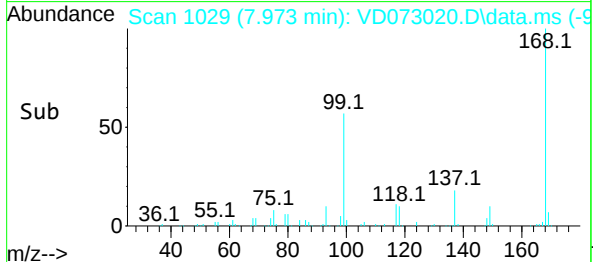
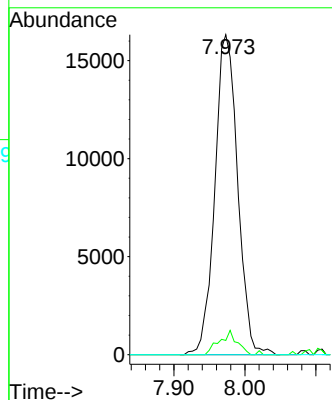
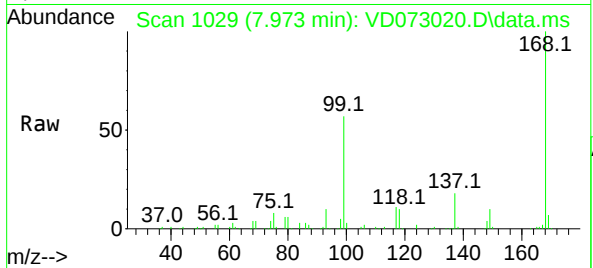




#38  
Carbon Tetrachloride  
Concen: 5.060 ug/l  
RT: 7.973 min Scan# 1050  
Delta R.T. -0.124 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

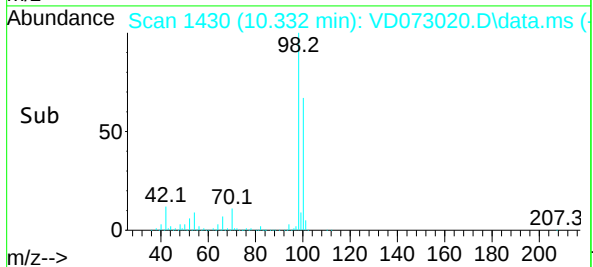
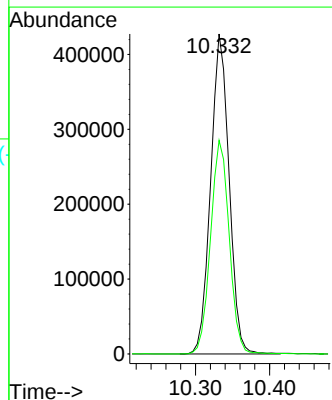
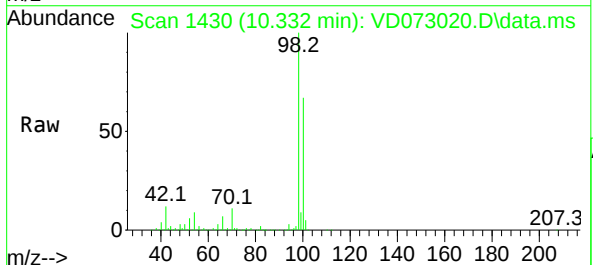
Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-6

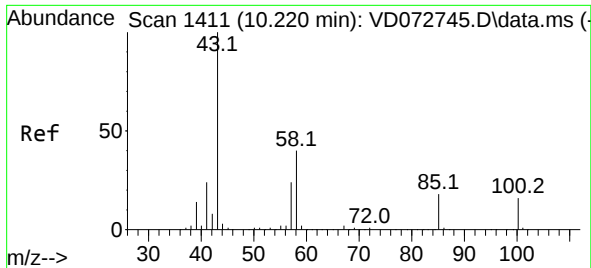
Tgt Ion:117 Resp: 36306  
Ion Ratio Lower Upper  
117 100  
119 4.5 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 48.394 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Tgt Ion: 98 Resp: 737967  
Ion Ratio Lower Upper  
98 100  
100 67.6 52.4 78.6

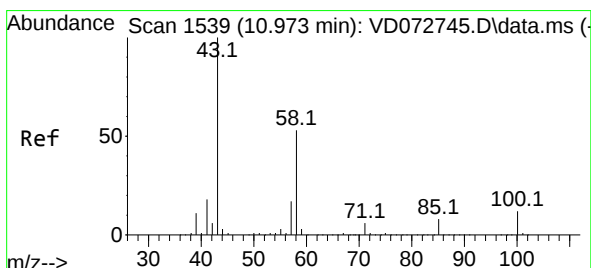
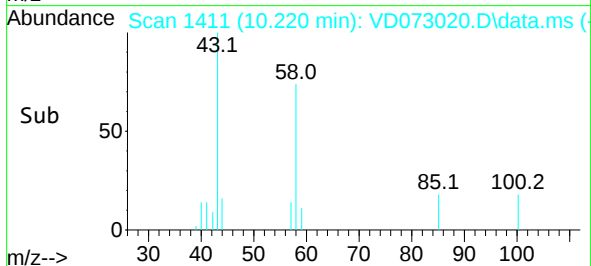
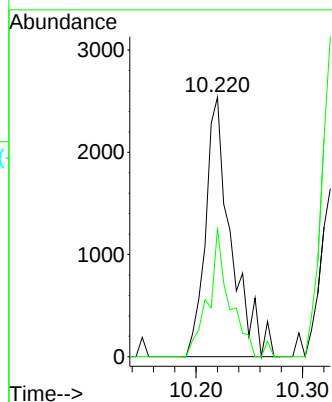
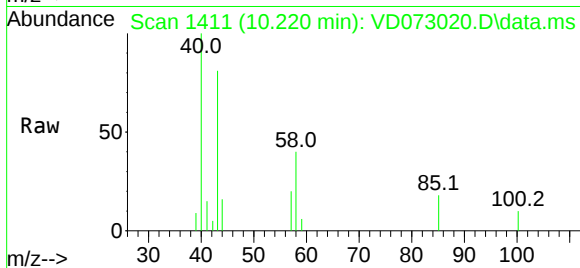




#51  
4-Methyl-2-Pentanone  
Concen: 1.390 ug/l  
RT: 10.220 min Scan# 1411  
Delta R.T. 0.000 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

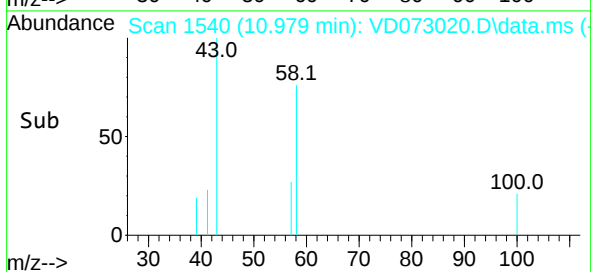
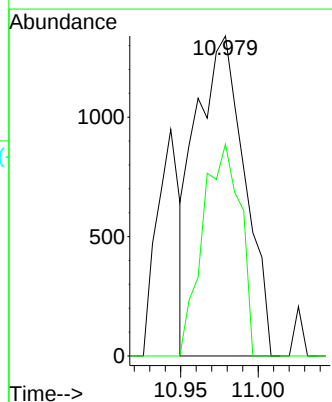
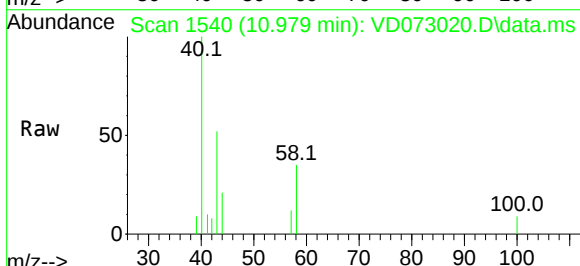
Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-6

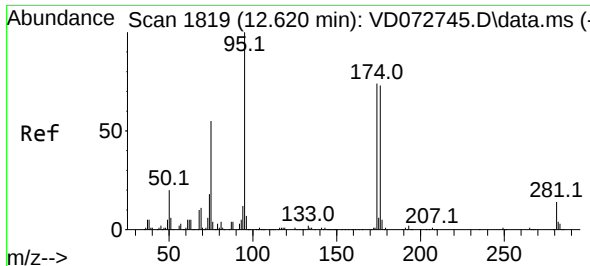
Tgt Ion: 43 Resp: 4237  
Ion Ratio Lower Upper  
43 100  
58 40.1 28.6 43.0



#59  
2-Hexanone  
Concen: 1.435 ug/l  
RT: 10.979 min Scan# 1540  
Delta R.T. 0.006 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Tgt Ion: 43 Resp: 2943  
Ion Ratio Lower Upper  
43 100  
58 50.9 25.3 75.9

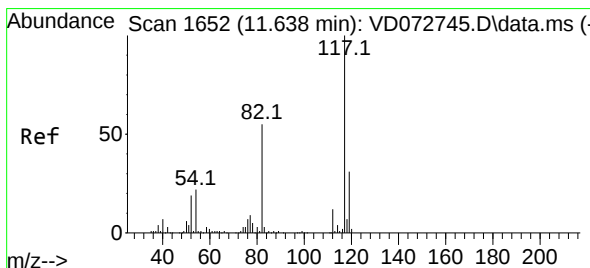
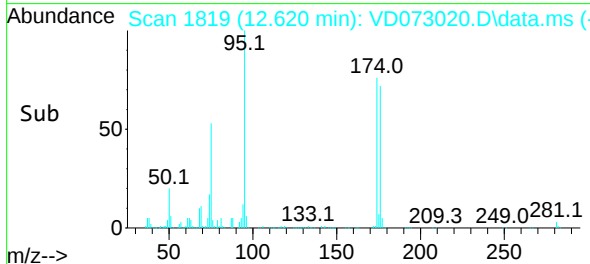
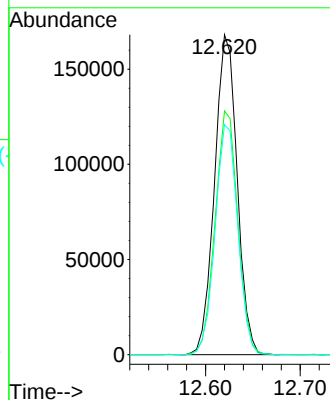
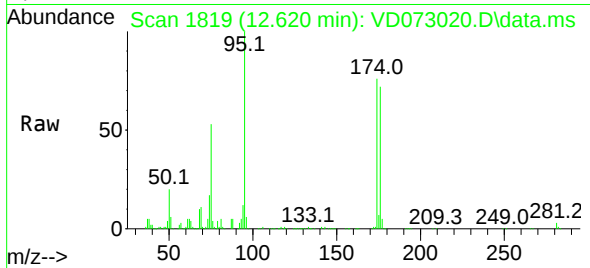




#62  
4-Bromofluorobenzene  
Concen: 49.016 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

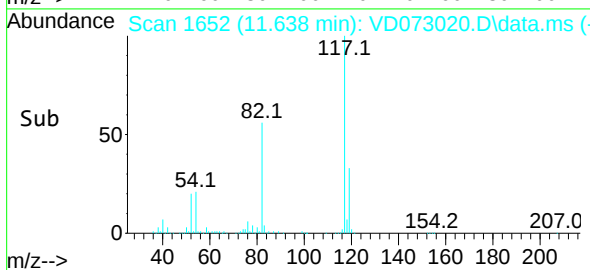
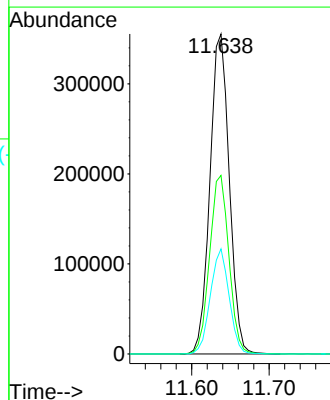
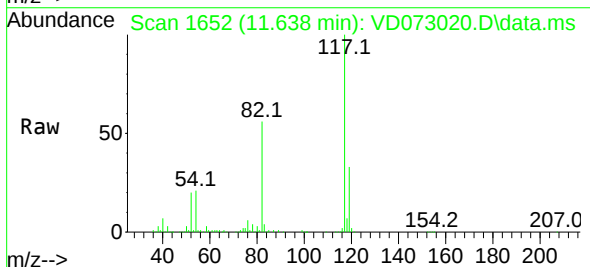
Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-6

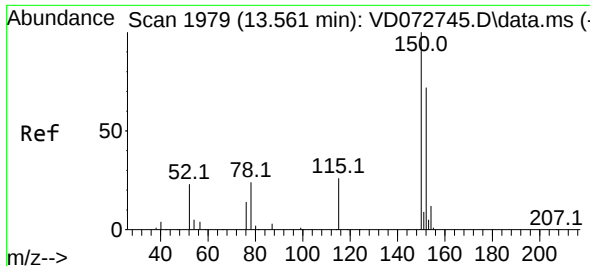
Tgt Ion: 95 Resp: 278707  
Ion Ratio Lower Upper  
95 100  
174 76.6 0.0 152.8  
176 72.0 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Tgt Ion: 117 Resp: 615956  
Ion Ratio Lower Upper  
117 100  
82 55.8 45.3 67.9  
119 32.8 26.6 40.0

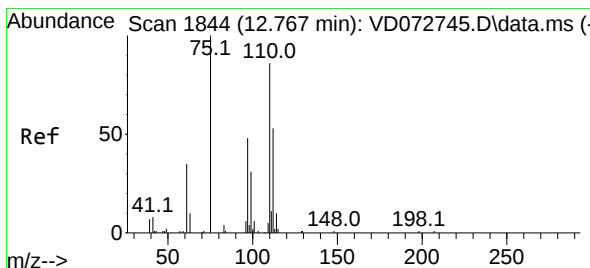
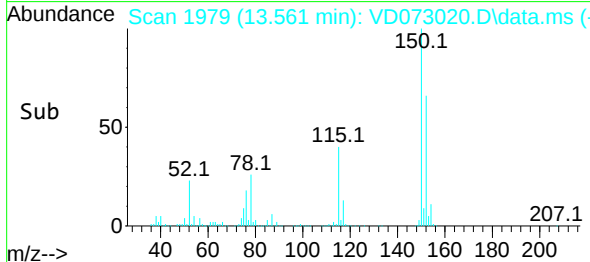
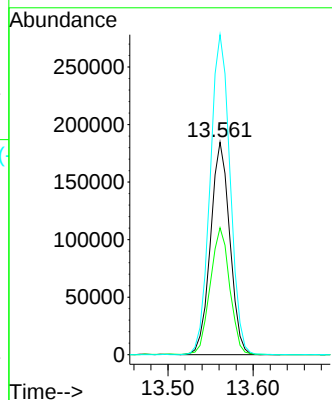
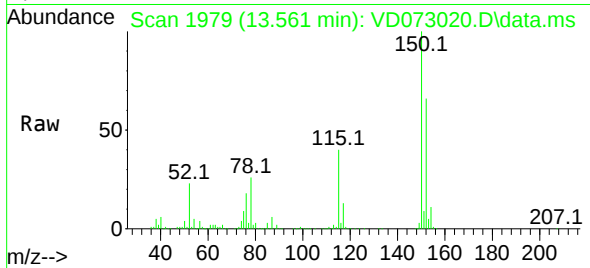




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

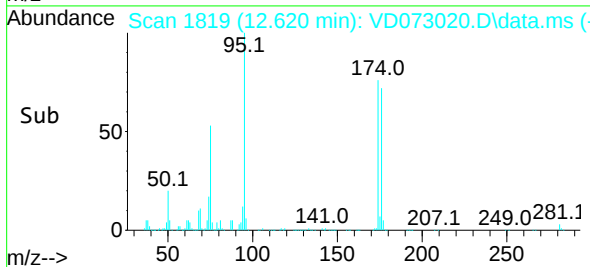
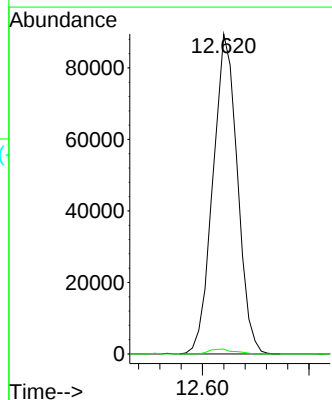
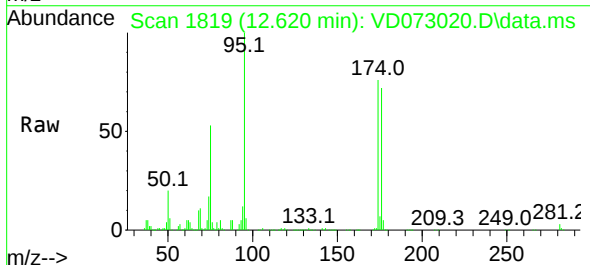
Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-6

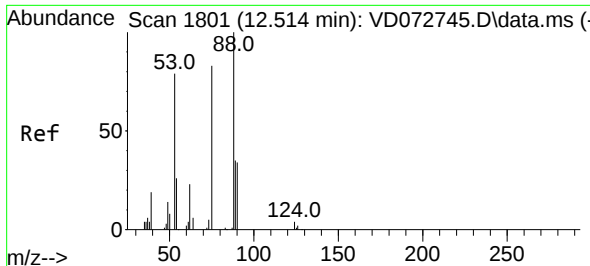
Tgt Ion:152 Resp: 291146  
Ion Ratio Lower Upper  
152 100  
115 60.3 31.3 93.8  
150 155.8 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 43.955 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Tgt Ion: 75 Resp: 142698  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#

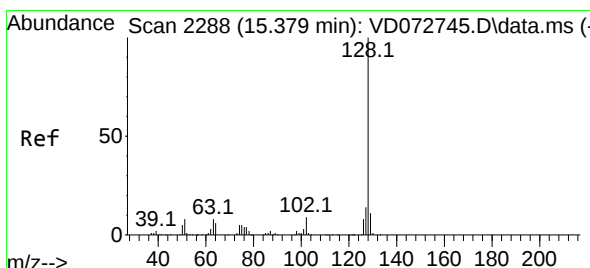
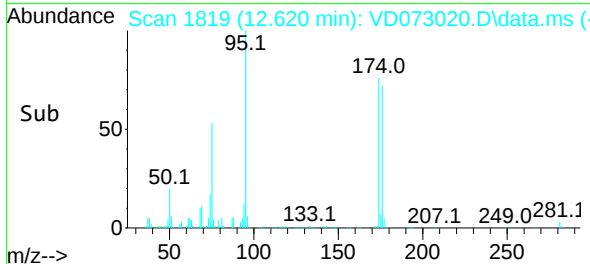
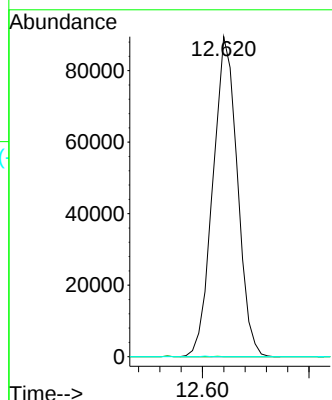
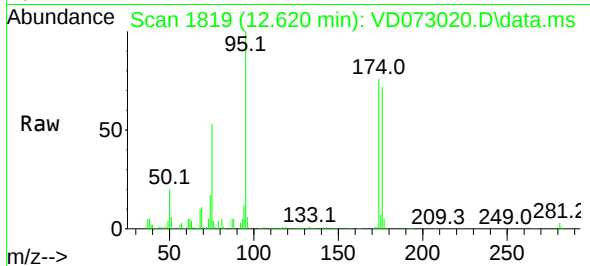




#81  
trans-1,4-Dichloro-2-butene  
Concen: 101.078 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-6

Tgt Ion: 75 Resp: 142698  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.0 33.9 50.9#



#95  
Naphthalene  
Concen: 18.426 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. 0.006 min  
Lab File: VD073020.D  
Acq: 14 May 2022 06:44

Tgt Ion: 128 Resp: 189470  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.3 15.5  
129 10.5 8.4 12.6

