

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051322\  
 Data File : VD073003.D  
 Acq On : 13 May 2022 21:44  
 Operator : VA/SY  
 Sample : N2816-13  
 Misc : 6.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P007-SS005-0006-01

Quant Time: May 16 05:16:59 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  | 331575   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 587355   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.632 | 117  | 572348   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.561 | 152  | 246408   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 173280   | 40.259   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 80.520% |
| 35) Dibromofluoromethane    | 7.908  | 113   | 191205   | 46.352   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 92.700% |
| 50) Toluene-d8              | 10.332 | 98    | 717428   | 48.485   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =    | 96.960% |
| 62) 4-Bromofluorobenzene    | 12.620 | 95    | 248268   | 44.997   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =    | 90.000% |

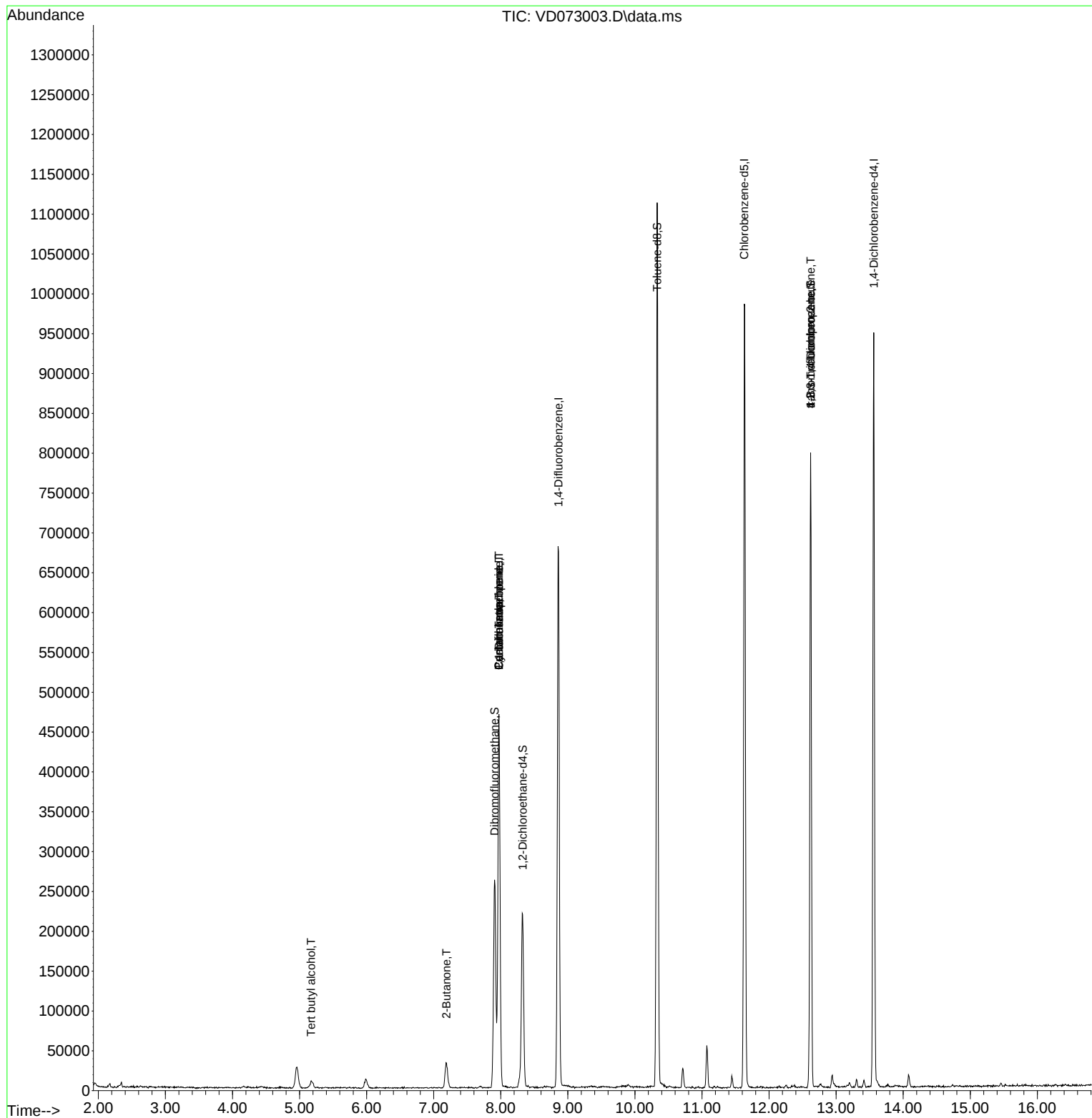
| Target Compounds              |        |     |        |           | Qvalue |     |
|-------------------------------|--------|-----|--------|-----------|--------|-----|
| 5) Bromomethane               | 2.768  | 94  | 489    | Below Cal | #      | 41  |
| 11) Tert butyl alcohol        | 5.173  | 59  | 8391   | 22.533    | ug/l # | 74  |
| 16) Acetone                   | 4.162  | 43  | 2896   | Below Cal | #      | 60  |
| 20) Methylene Chloride        | 4.956  | 84  | 20023  | Below Cal | #      | 82  |
| 25) 2-Butanone                | 7.191  | 43  | 1800   | 1.435     | ug/l # | 52  |
| 31) Cyclohexane               | 7.973  | 56  | 7841   | 1.042     | ug/l # | 1   |
| 36) 1,1-Dichloropropene       | 7.973  | 75  | 28338  | 4.225     | ug/l # | 51  |
| 38) Carbon Tetrachloride      | 7.973  | 117 | 36063  | 5.179     | ug/l # | 17  |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75  | 124661 | 45.371    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75  | 124661 | 104.334   | ug/l # | 7   |

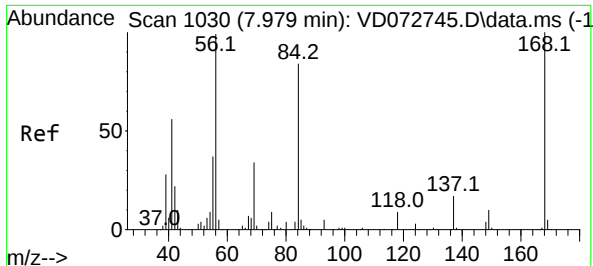
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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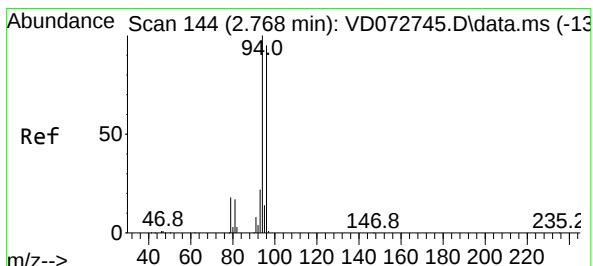
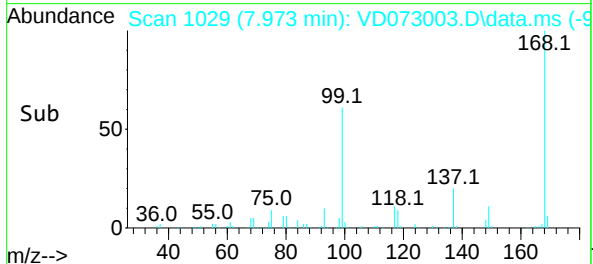
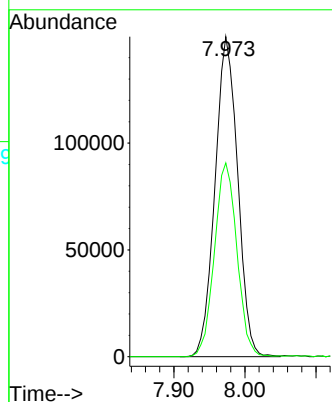
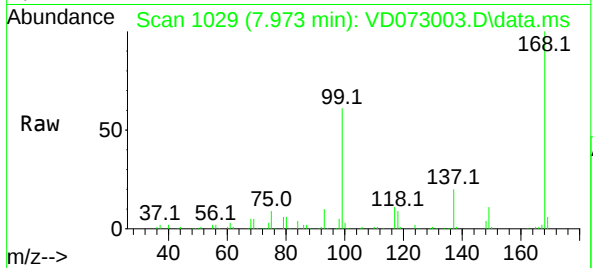




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

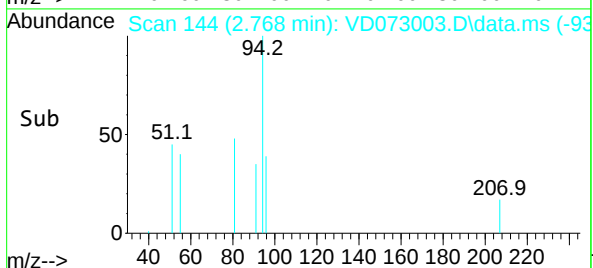
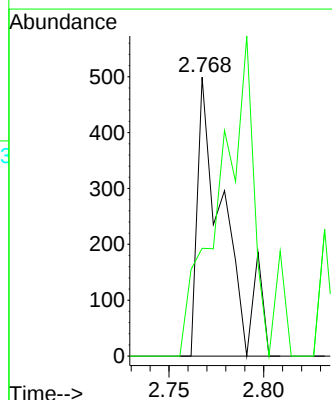
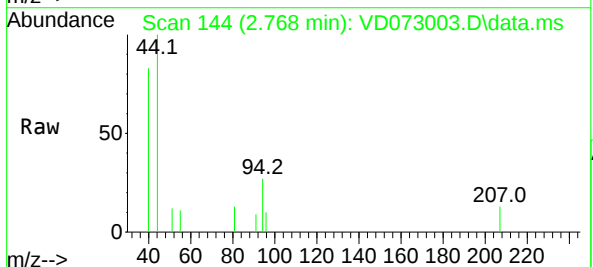
Instrument :  
MSVOA\_D  
ClientSampleId :  
P007-SS005-0006-01

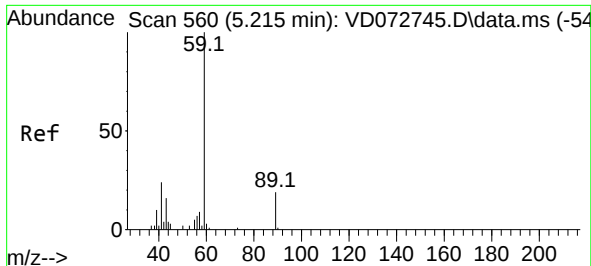
Tgt Ion:168 Resp: 331575  
Ion Ratio Lower Upper  
168 100  
99 60.6 49.8 74.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.768 min Scan# 144  
Delta R.T. -0.000 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

Tgt Ion: 94 Resp: 489  
Ion Ratio Lower Upper  
94 100  
96 38.7 77.6 116.4#





#11

Tert butyl alcohol

Concen: 22.533 ug/l

RT: 5.173 min Scan# 51

Delta R.T. -0.042 min

Lab File: VD073003.D

Acq: 13 May 2022 21:44

Instrument :

MSVOA\_D

ClientSampleId :

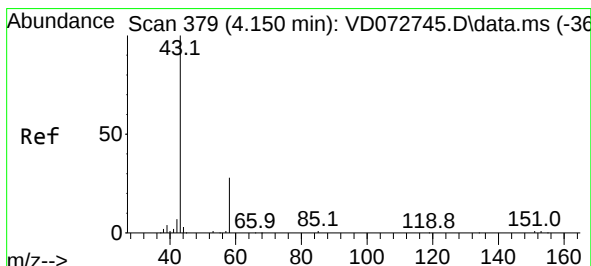
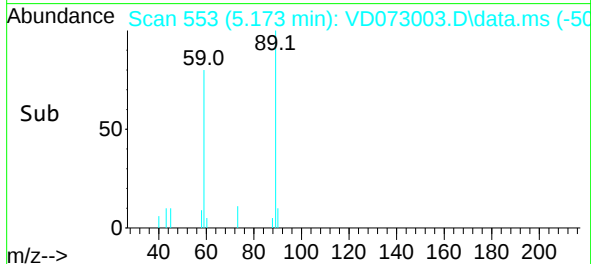
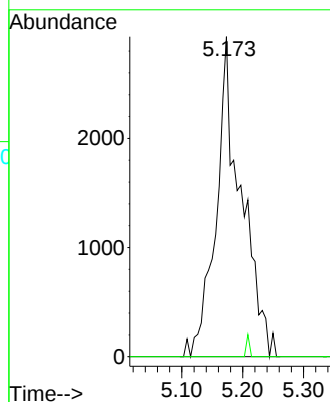
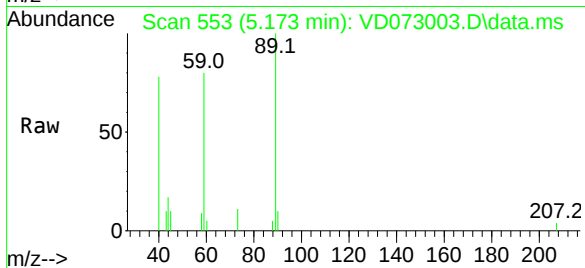
P007-SS005-0006-01

Tgt Ion: 59 Resp: 8391

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#16

Acetone

Concen: Below Cal

RT: 4.162 min Scan# 381

Delta R.T. 0.012 min

Lab File: VD073003.D

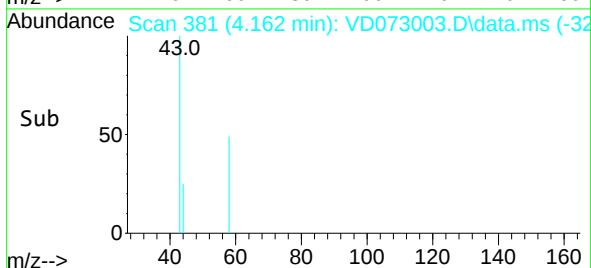
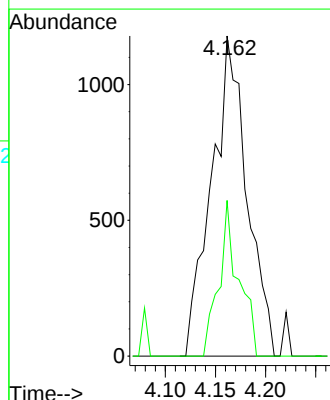
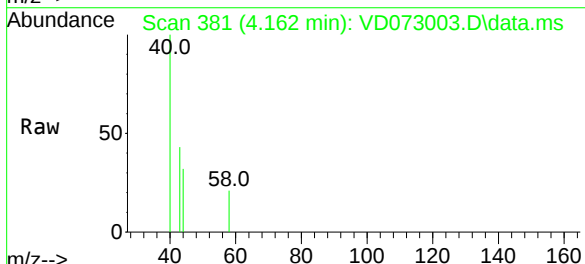
Acq: 13 May 2022 21:44

Tgt Ion: 43 Resp: 2896

Ion Ratio Lower Upper

43 100

58 48.6 22.1 33.1#



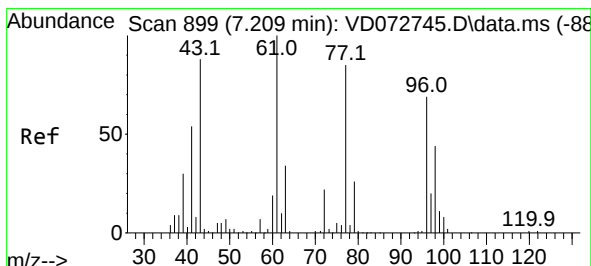
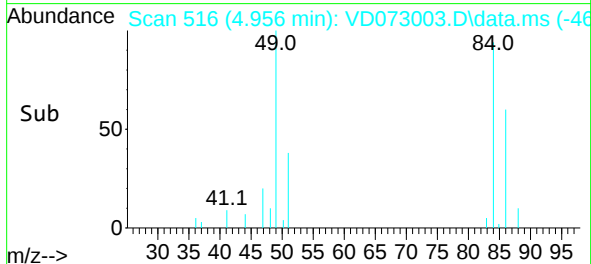
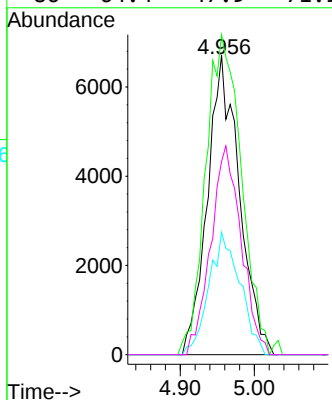
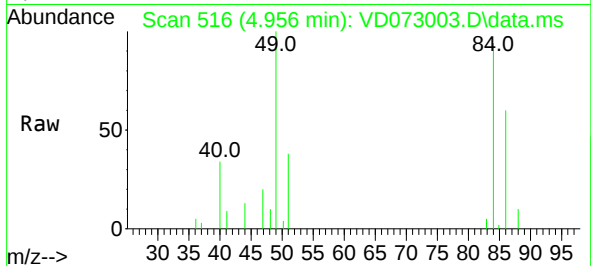


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 517  
Delta R.T. -0.006 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

Instrument :  
MSVOA\_D  
ClientSampleId :  
P007-SS005-0006-01

Tgt Ion: 84 Resp: 20023

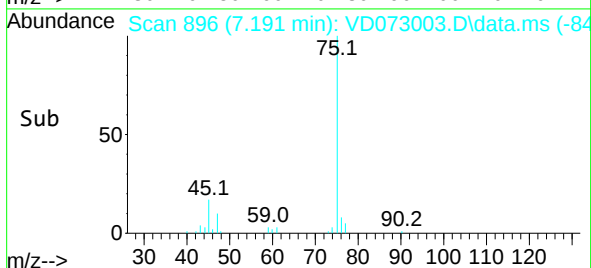
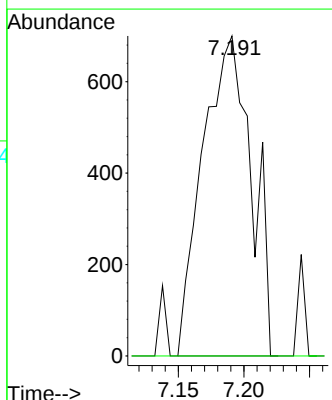
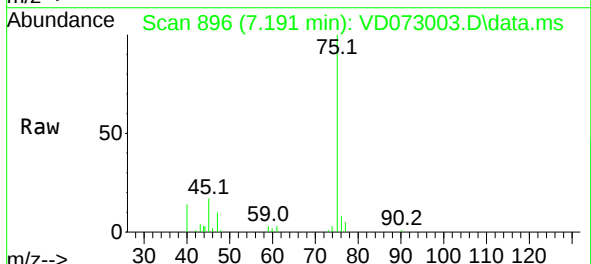
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 106.8 | 112.8 | 169.2# |
| 51  | 40.8  | 32.6  | 48.8   |
| 86  | 64.4  | 47.9  | 71.9   |

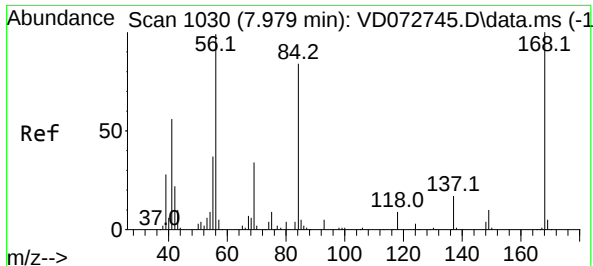


#25  
2-Butanone  
Concen: 1.435 ug/l  
RT: 7.191 min Scan# 896  
Delta R.T. -0.018 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

Tgt Ion: 43 Resp: 1800

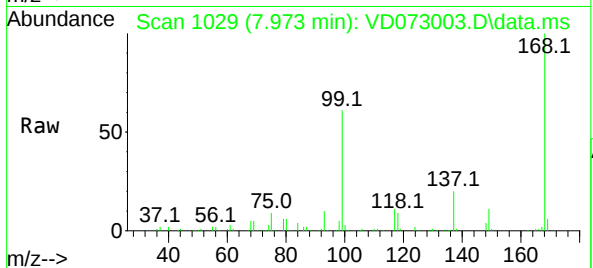
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 18.6  | 27.8# |



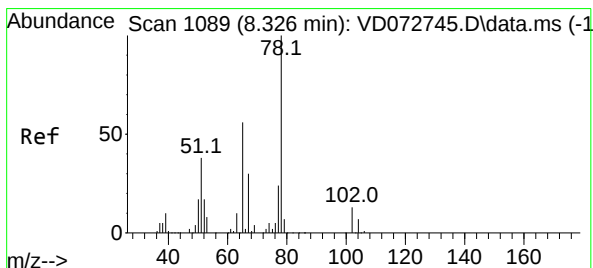
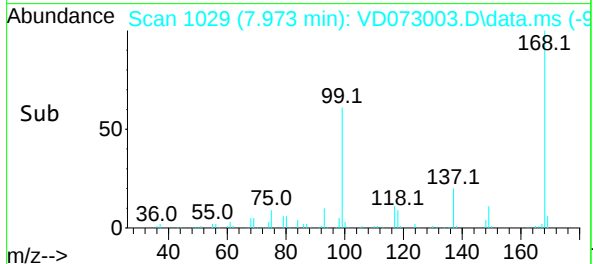
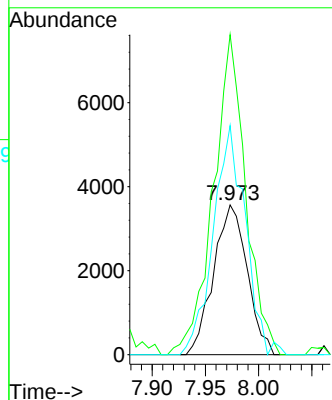


#31  
Cyclohexane  
Concen: 1.042 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

Instrument :  
MSVOA\_D  
ClientSampleId :  
P007-SS005-0006-01

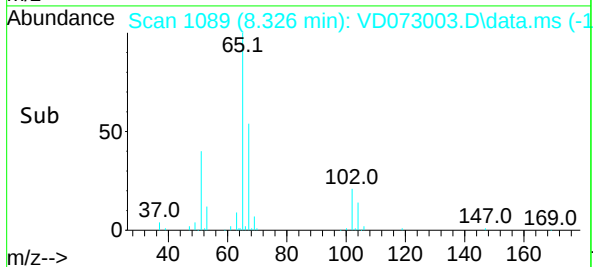
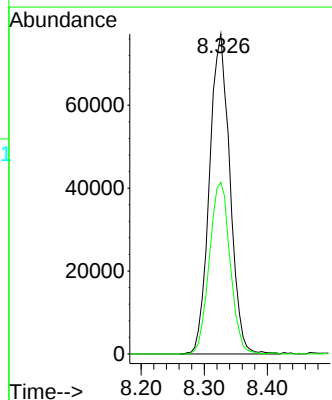
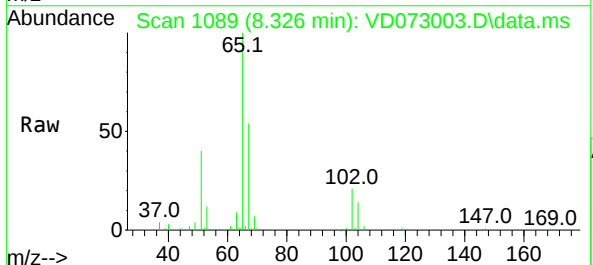


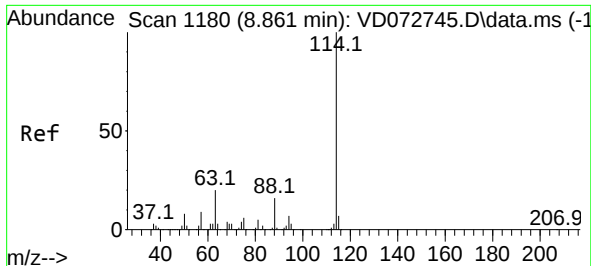
Tgt Ion: 56 Resp: 7841  
Ion Ratio Lower Upper  
56 100  
69 213.7 25.4 38.2#  
84 153.0 63.0 94.4#



#33  
1,2-Dichloroethane-d4  
Concen: 40.259 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

Tgt Ion: 65 Resp: 173280  
Ion Ratio Lower Upper  
65 100  
67 54.4 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: VD073003.D

Acq: 13 May 2022 21:44

Instrument :

MSVOA\_D

ClientSampleId :

P007-SS005-0006-01

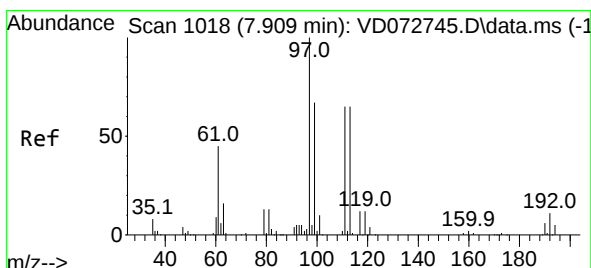
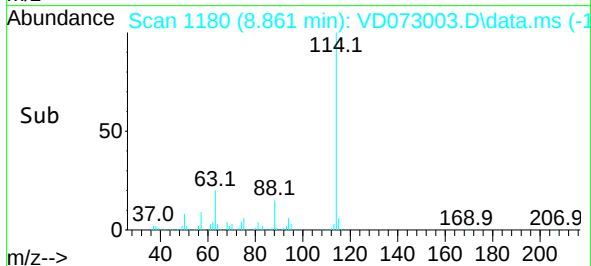
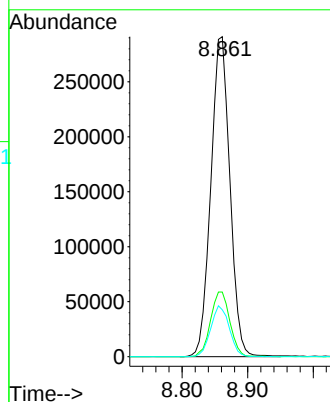
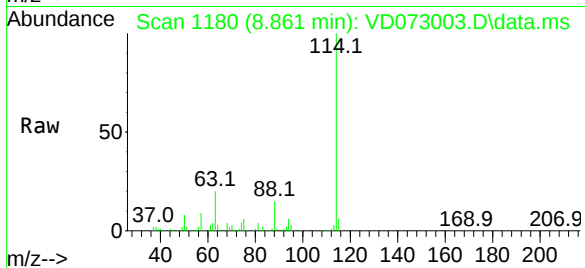
Tgt Ion:114 Resp: 587355

Ion Ratio Lower Upper

114 100

63 20.2 0.0 46.6

88 14.6 0.0 33.2



#35

Dibromofluoromethane

Concen: 46.352 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.001 min

Lab File: VD073003.D

Acq: 13 May 2022 21:44

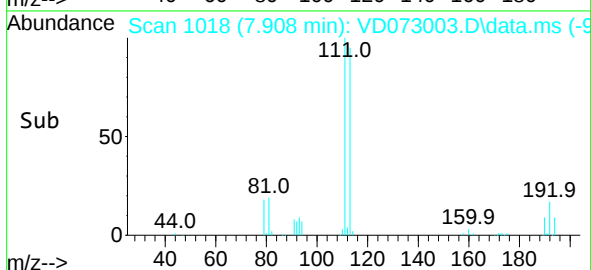
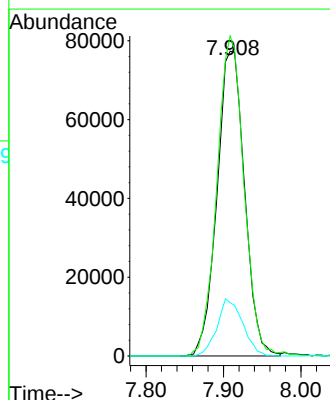
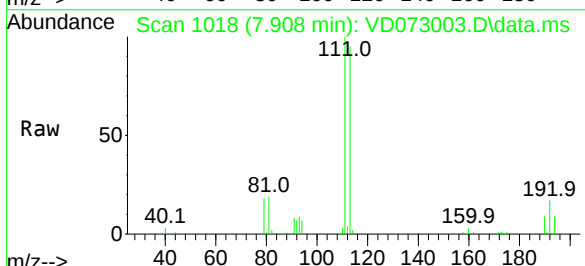
Tgt Ion:113 Resp: 191205

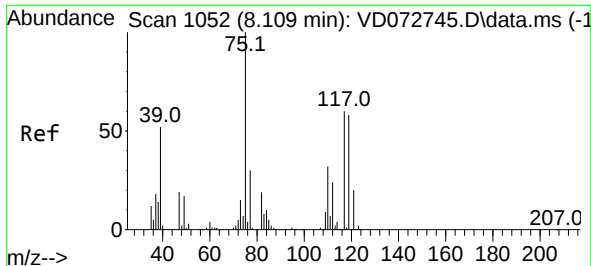
Ion Ratio Lower Upper

113 100

111 103.3 83.8 125.6

192 17.5 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.225 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.136 min

Lab File: VD073003.D

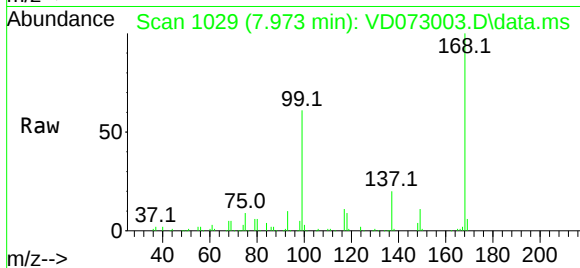
Acq: 13 May 2022 21:44

Instrument :

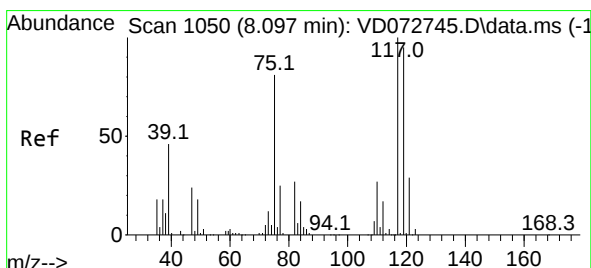
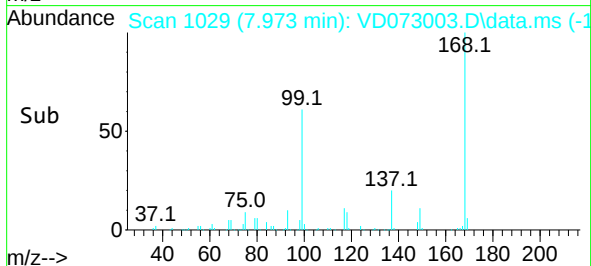
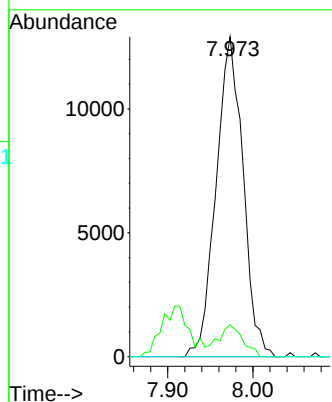
MSVOA\_D

ClientSampleId :

P007-SS005-0006-01



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 28338    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 8.6 16.4 49.1# |
| 77          | 0.0 24.2 36.2# |



#38

Carbon Tetrachloride

Concen: 5.179 ug/l

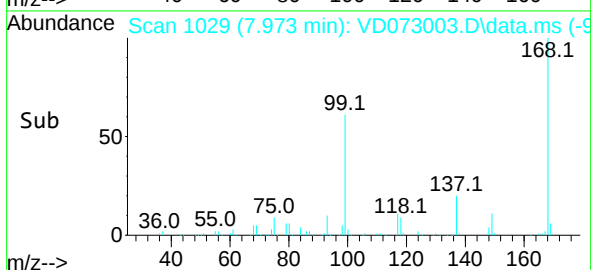
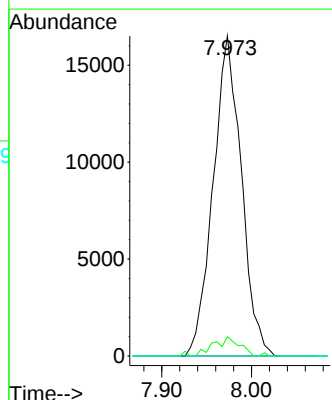
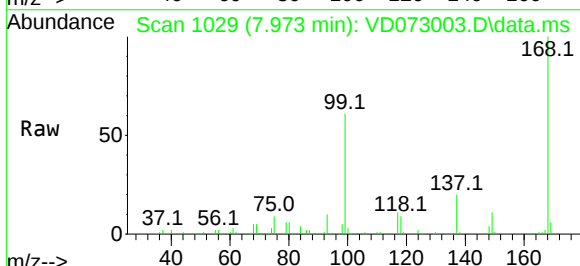
RT: 7.973 min Scan# 1029

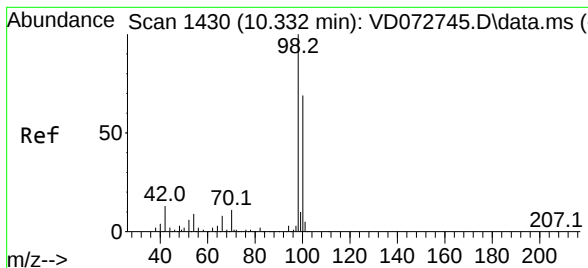
Delta R.T. -0.124 min

Lab File: VD073003.D

Acq: 13 May 2022 21:44

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 36063     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 6.0 75.8 113.6# |
| 121          | 0.0 24.5 36.7#  |

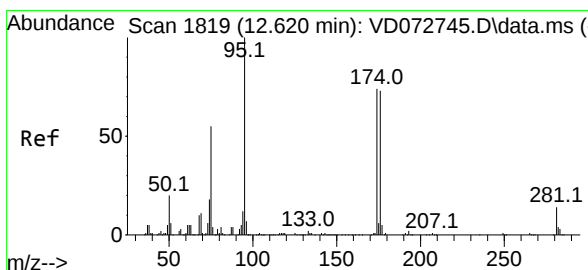
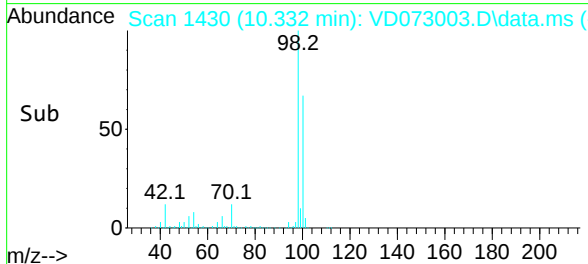
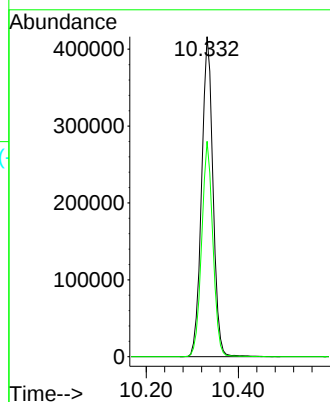
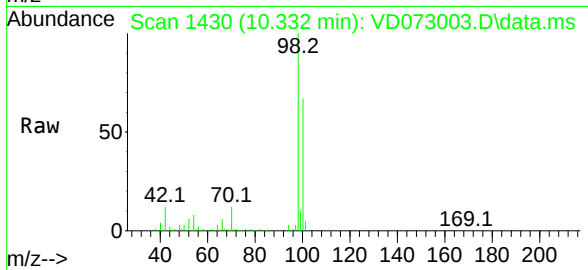




#50  
Toluene-d8  
Concen: 48.485 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

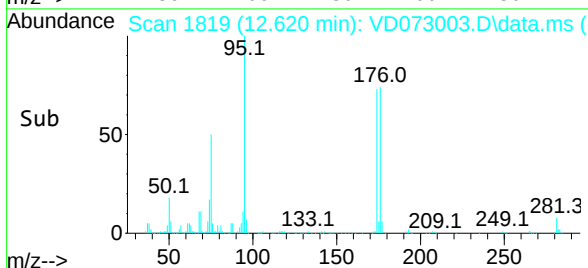
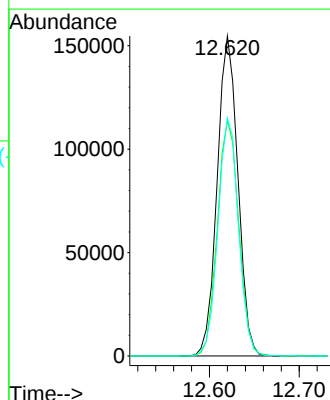
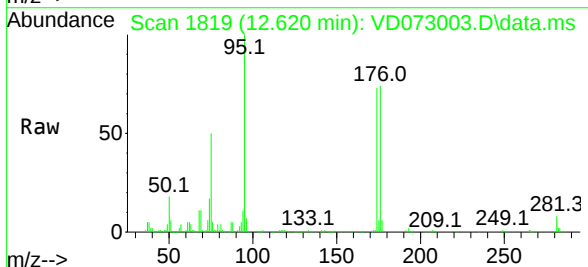
Instrument :  
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P007-SS005-0006-01

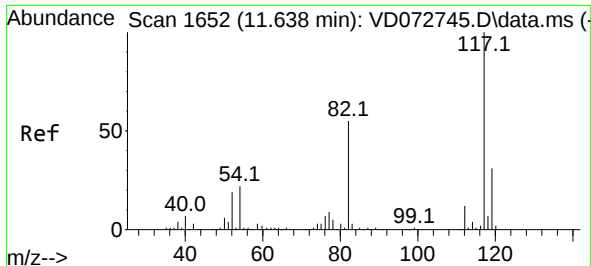
Tgt Ion: 98 Resp: 717428  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 44.997 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

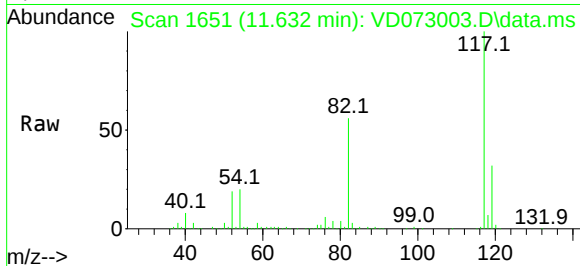
Tgt Ion: 95 Resp: 248268  
Ion Ratio Lower Upper  
95 100  
174 75.8 0.0 152.8  
176 73.7 0.0 145.4



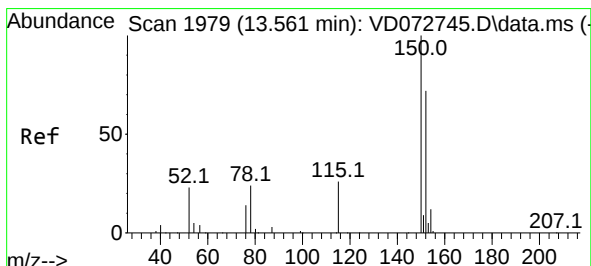
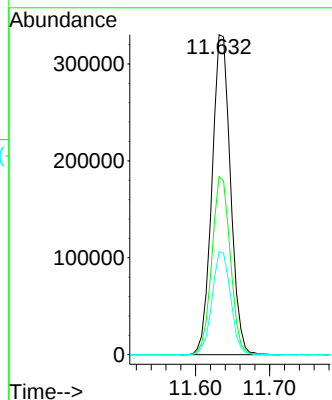
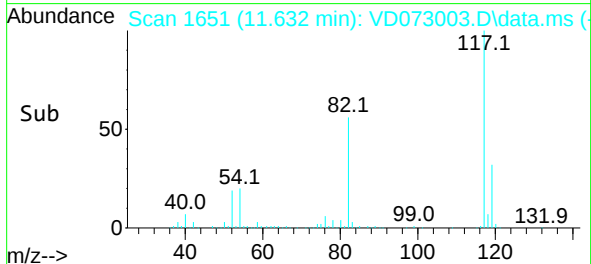


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 117  
Delta R.T. -0.006 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

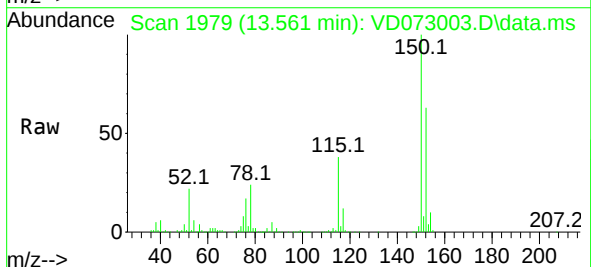
Instrument :  
MSVOA\_D  
ClientSampleId :  
P007-SS005-0006-01



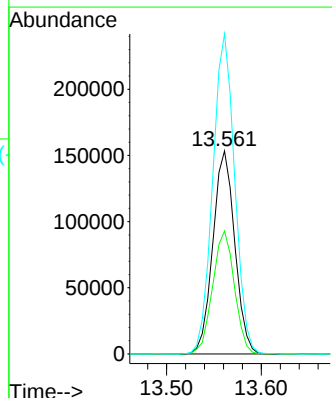
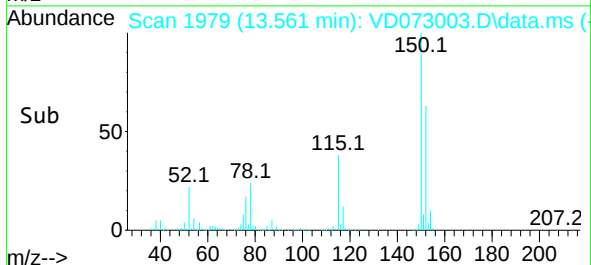
Tgt Ion:117 Resp: 572348  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.3 67.9  
119 32.2 26.6 40.0

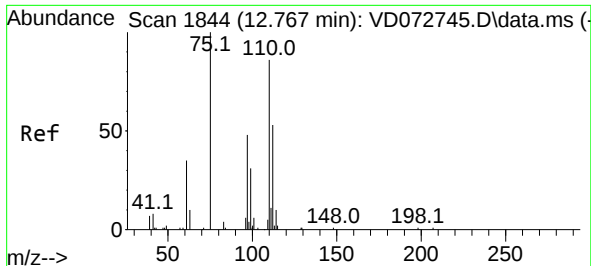


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44



Tgt Ion:152 Resp: 246408  
Ion Ratio Lower Upper  
152 100  
115 60.3 31.3 93.8  
150 157.9 0.0 348.6

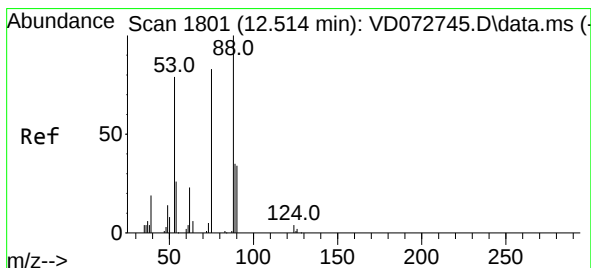
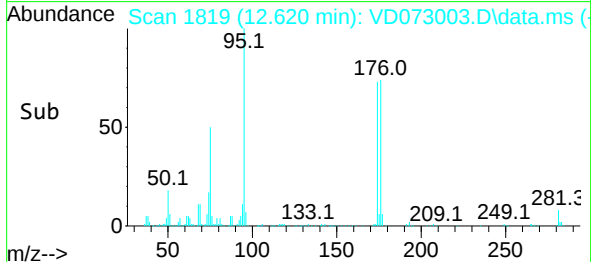
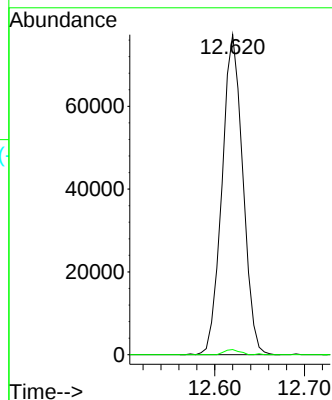
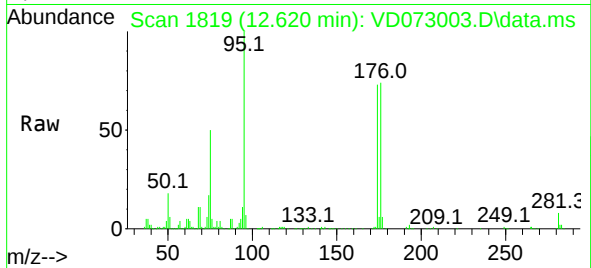




#76  
1,2,3-Trichloropropane  
Concen: 45.371 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

Instrument :  
MSVOA\_D  
ClientSampleId :  
P007-SS005-0006-01

Tgt Ion: 75 Resp: 124661  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 104.334 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073003.D  
Acq: 13 May 2022 21:44

Tgt Ion: 75 Resp: 124661  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.3 33.9 50.9#

