

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051922\  
 Data File : VD073180.D  
 Acq On : 20 May 2022 12:29  
 Operator : VA/SY  
 Sample : N2842-21  
 Misc : 4.30G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P023-SS005-0006-01

Quant Time: May 20 13:10:20 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

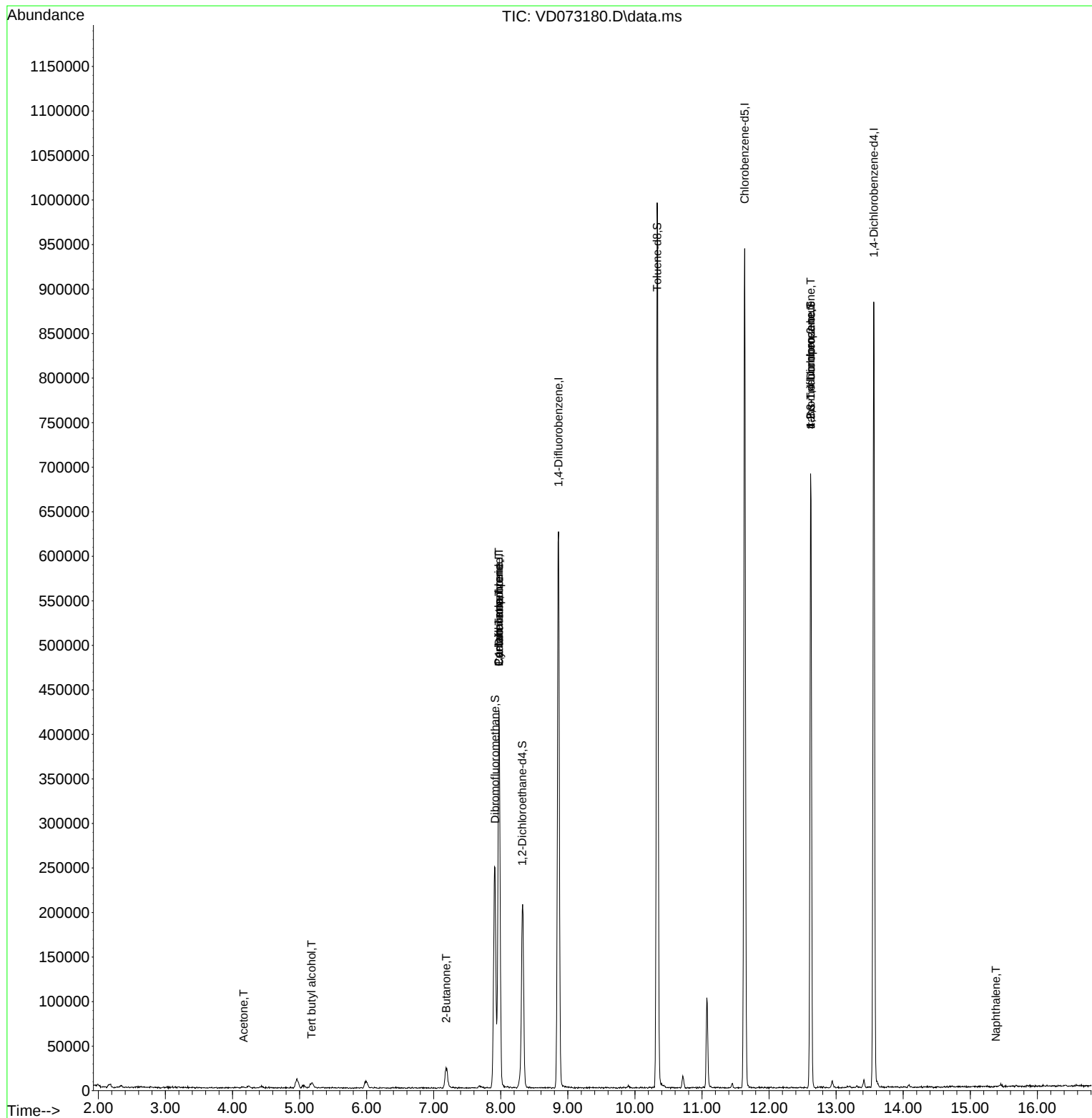
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 304554   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 535777   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 541688   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 225673   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.320  | 65    | 168191   | 49.971    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 99.940%  |
| 35) Dibromofluoromethane      | 7.914  | 113   | 183521   | 51.909    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 103.820% |
| 50) Toluene-d8                | 10.332 | 98    | 662861   | 50.863    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 101.720% |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 228963   | 50.062    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 100.120% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 2.773  | 94    | 403      | Below Cal | #      | 65       |
| 11) Tert butyl alcohol        | 5.179  | 59    | 3096     | 5.929     | ug/l # | 74       |
| 16) Acetone                   | 4.167  | 43    | 967      | 1.659     | ug/l # | 60       |
| 20) Methylene Chloride        | 4.962  | 84    | 7303     | Below Cal |        | 85       |
| 25) 2-Butanone                | 7.185  | 43    | 1261     | 1.478     | ug/l # | 52       |
| 31) Cyclohexane               | 7.973  | 56    | 6996     | 1.189     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.973  | 75    | 25847    | 4.861     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 32595    | 6.047     | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 114619   | 51.764    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 114619   | 124.271   | ug/l # | 7        |
| 95) Naphthalene               | 15.384 | 128   | 154      | 3.561     | ug/l # | 70       |
| -----                         |        |       |          |           |        |          |

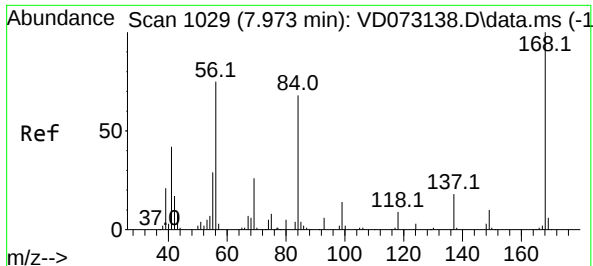
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 19 15:13:42 2022  
Response via : Initial Calibration

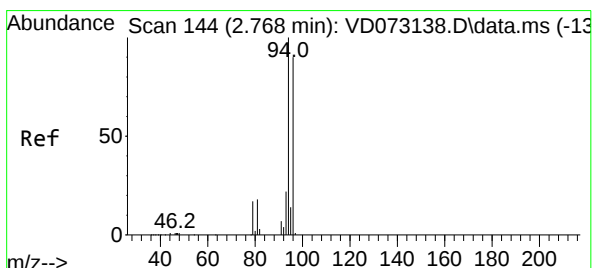
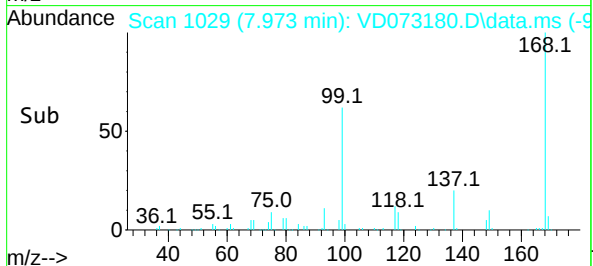
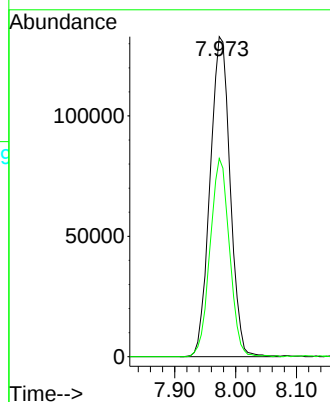
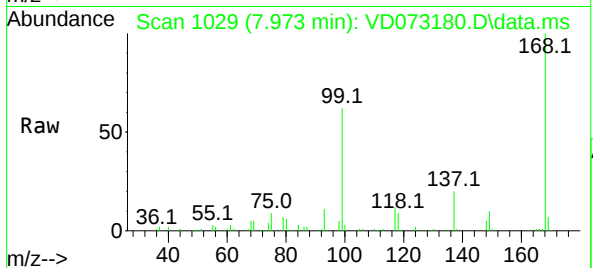




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

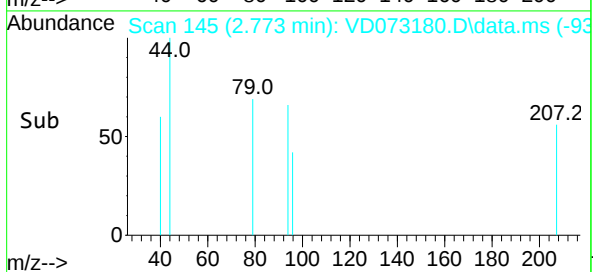
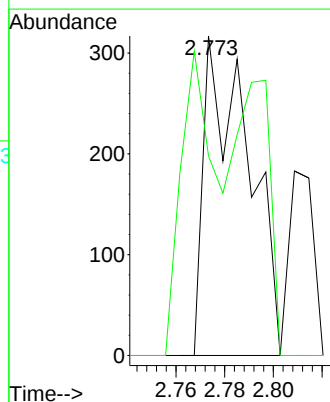
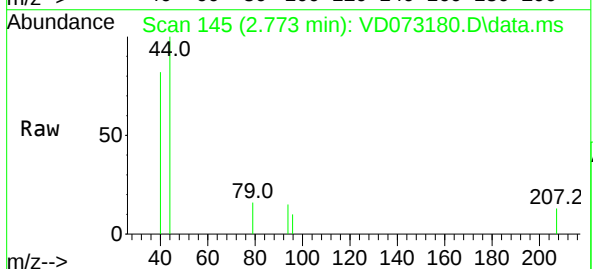
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS005-0006-01

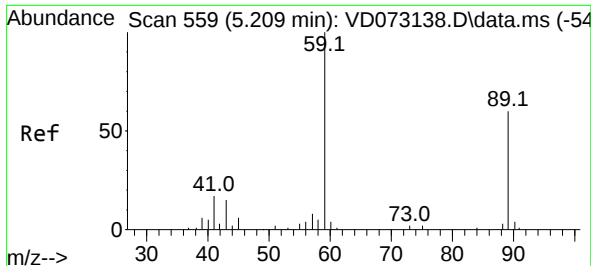
Tgt Ion:168 Resp: 304554  
Ion Ratio Lower Upper  
168 100  
99 61.9 49.8 74.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.773 min Scan# 145  
Delta R.T. 0.005 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

Tgt Ion: 94 Resp: 403  
Ion Ratio Lower Upper  
94 100  
96 62.5 77.6 116.4#

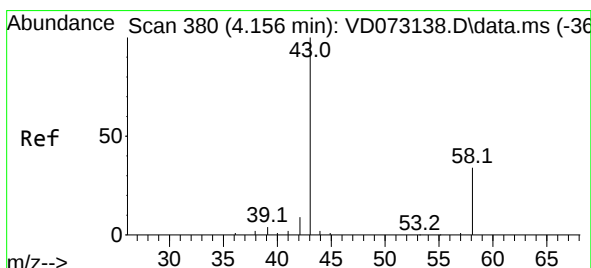
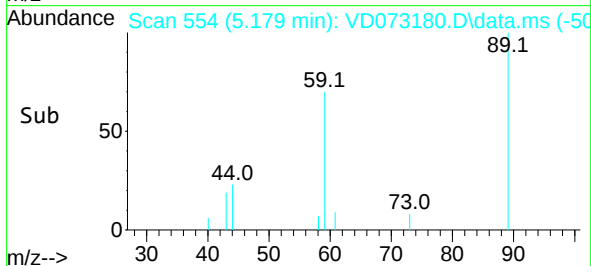
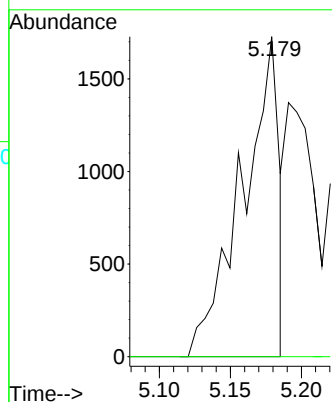
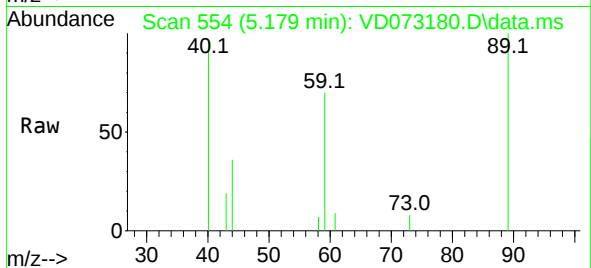




#11  
Tert butyl alcohol  
Concen: 5.929 ug/l  
RT: 5.179 min Scan# 51  
Delta R.T. -0.030 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

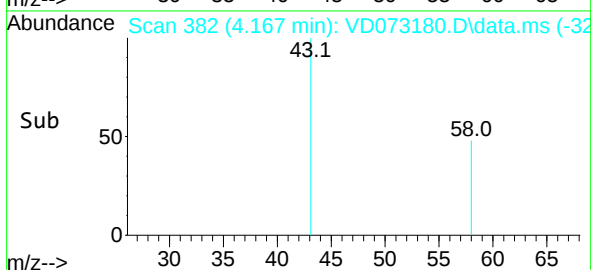
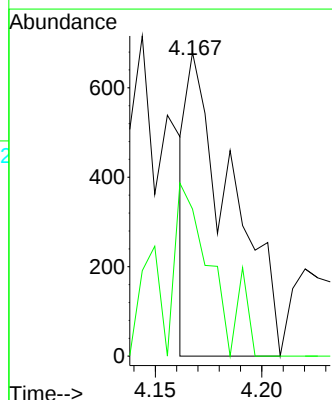
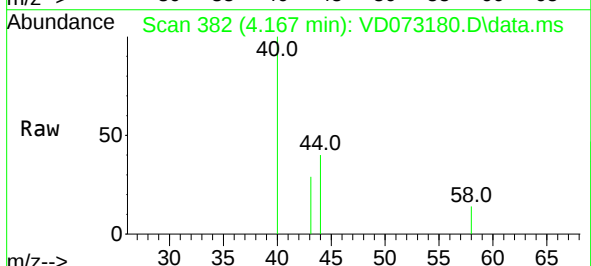
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ClientSampleId :  
P023-SS005-0006-01

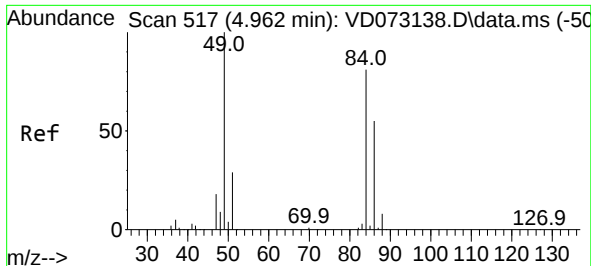
Tgt Ion: 59 Resp: 3096  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: 1.659 ug/l  
RT: 4.167 min Scan# 382  
Delta R.T. 0.011 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

Tgt Ion: 43 Resp: 967  
Ion Ratio Lower Upper  
43 100  
58 48.5 22.1 33.1#

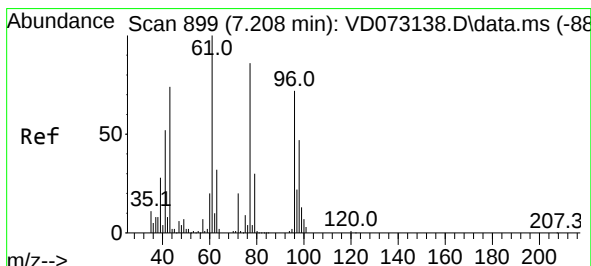
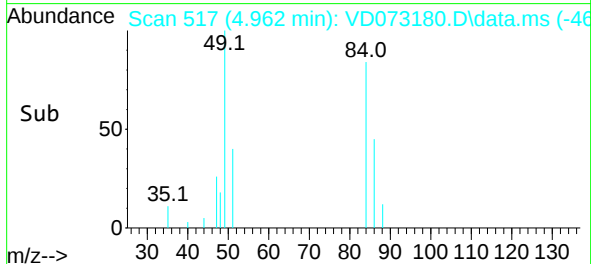
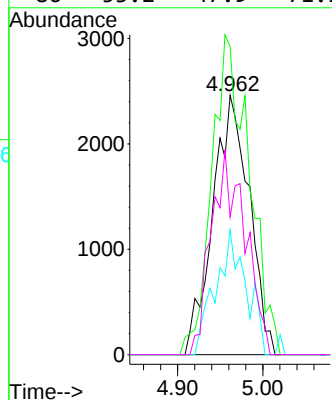
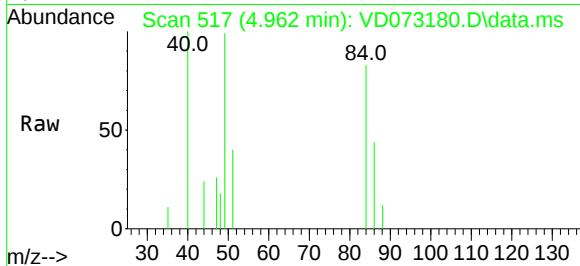




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 517  
Delta R.T. -0.000 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

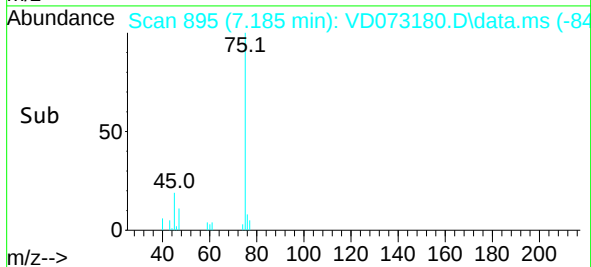
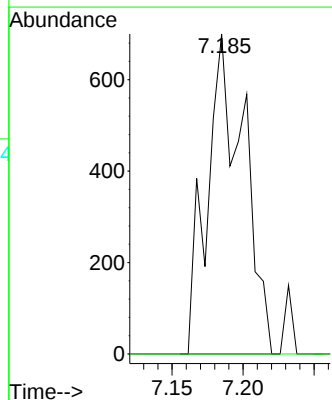
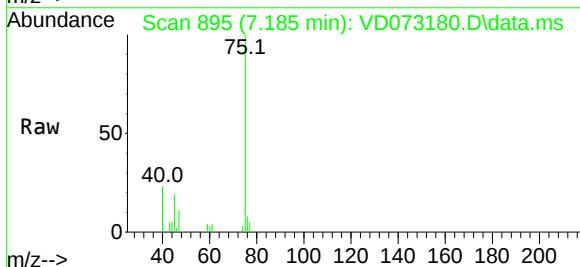
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS005-0006-01

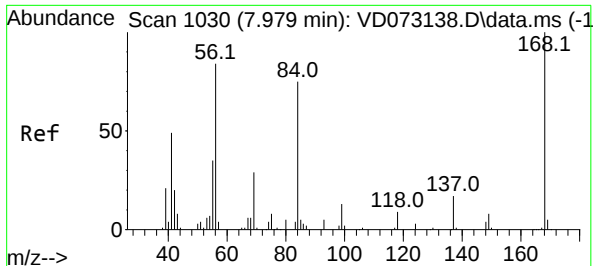
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7303  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 118.8 | 112.8 | 169.2 |
| 51       | 48.0  | 32.6  | 48.8  |
| 86       | 53.2  | 47.9  | 71.9  |



#25  
2-Butanone  
Concen: 1.478 ug/l  
RT: 7.185 min Scan# 895  
Delta R.T. -0.023 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1261  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 18.6  | 27.8  |





#31

Cyclohexane

Concen: 1.189 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VD073180.D

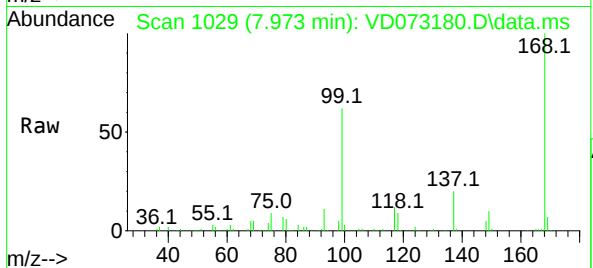
Acq: 20 May 2022 12:29

Instrument :

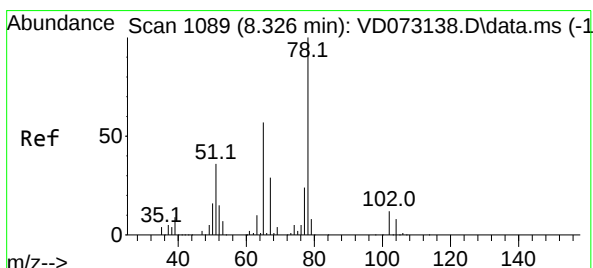
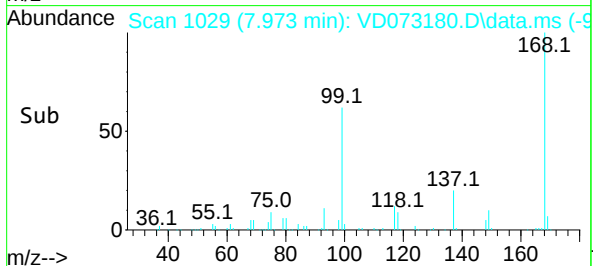
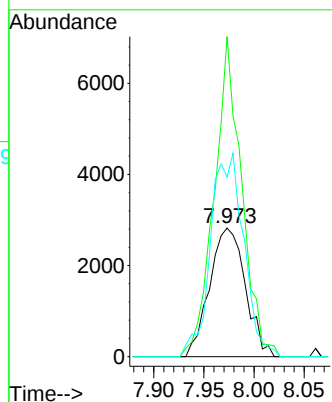
MSVOA\_D

ClientSampleId :

P023-SS005-0006-01



| Tgt Ion:  | 56    | Resp: | 6996 |
|-----------|-------|-------|------|
| Ion Ratio | 100   |       |      |
| Lower     | 25.4  |       |      |
| Upper     | 38.2# |       |      |
| 69        | 248.8 |       |      |
| 84        | 139.5 |       |      |
| 63.0      |       |       |      |
| 94.4#     |       |       |      |



#33

1,2-Dichloroethane-d4

Concen: 49.971 ug/l

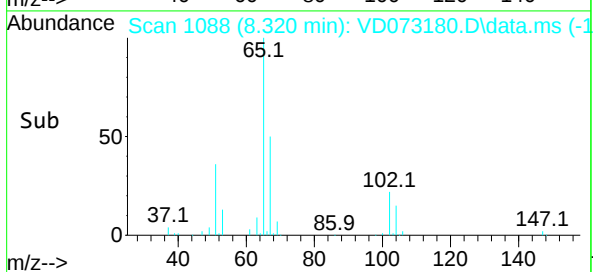
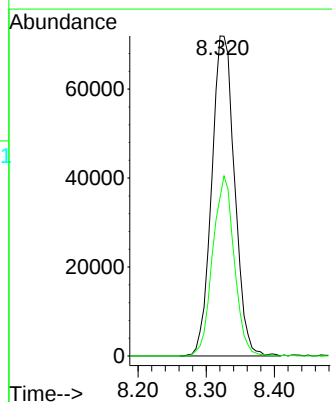
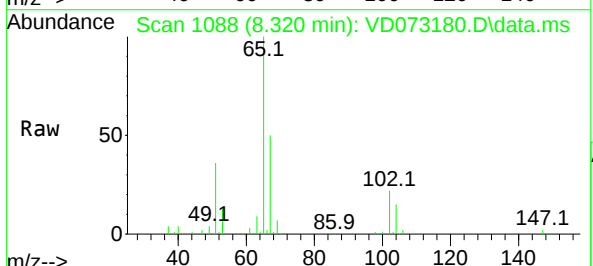
RT: 8.320 min Scan# 1088

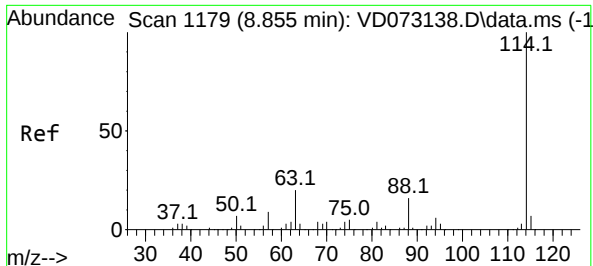
Delta R.T. -0.006 min

Lab File: VD073180.D

Acq: 20 May 2022 12:29

| Tgt Ion:  | 65    | Resp: | 168191 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   |       |        |
| Lower     | 0.0   |       |        |
| Upper     | 101.4 |       |        |
| 67        | 52.8  |       |        |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1179

Delta R.T. 0.006 min

Lab File: VD073180.D

Acq: 20 May 2022 12:29

Instrument :

MSVOA\_D

ClientSampleId :

P023-SS005-0006-01

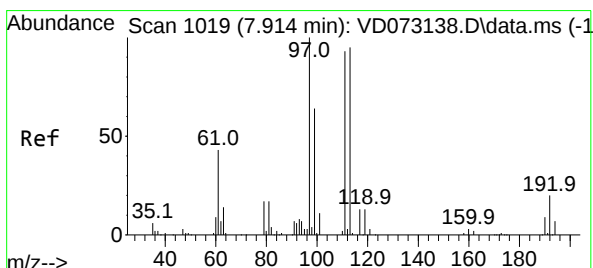
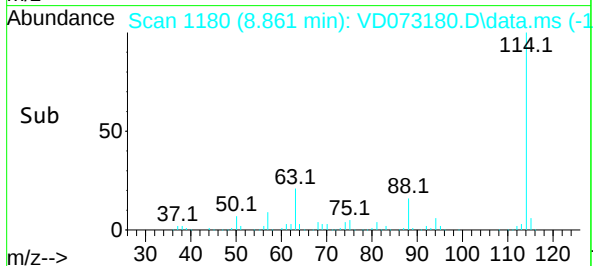
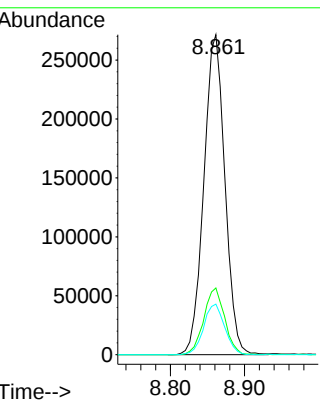
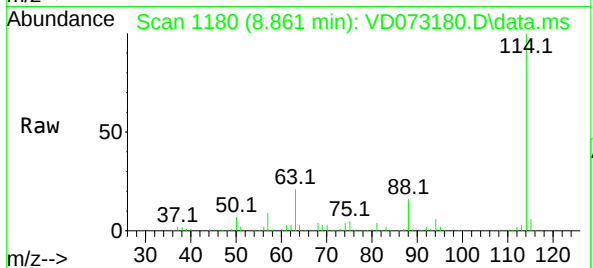
Tgt Ion:114 Resp: 535777

Ion Ratio Lower Upper

114 100

63 20.8 0.0 46.6

88 15.8 0.0 33.2



#35

Dibromofluoromethane

Concen: 51.909 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD073180.D

Acq: 20 May 2022 12:29

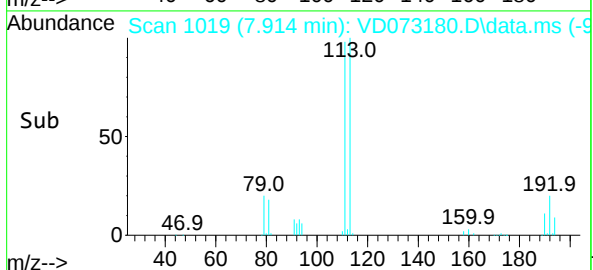
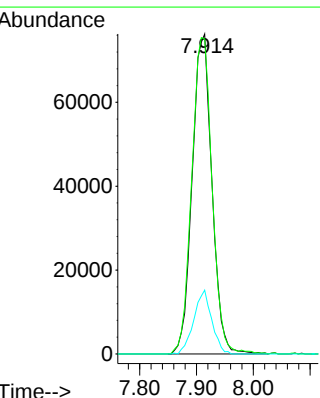
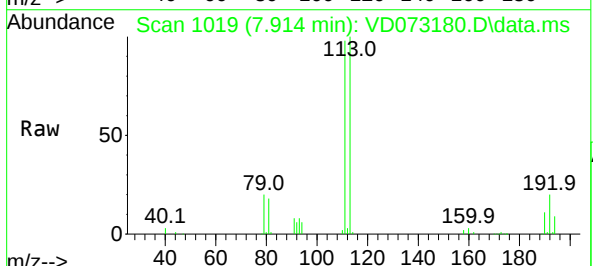
Tgt Ion:113 Resp: 183521

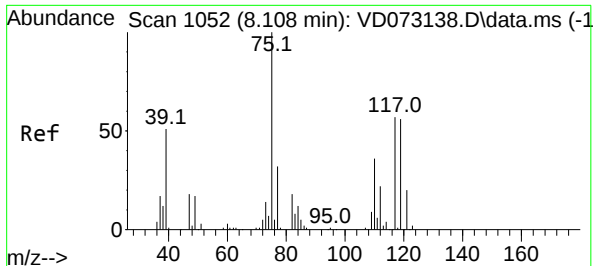
Ion Ratio Lower Upper

113 100

111 101.6 83.8 125.6

192 18.2 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.861 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD073180.D

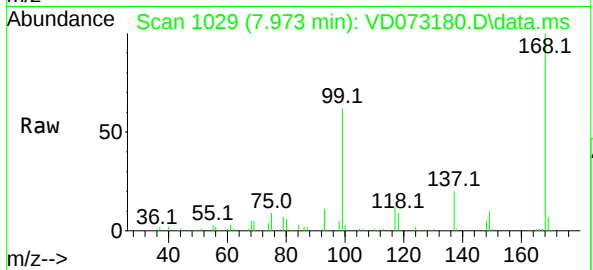
Acq: 20 May 2022 12:29

Instrument :

MSVOA\_D

ClientSampleId :

P023-SS005-0006-01



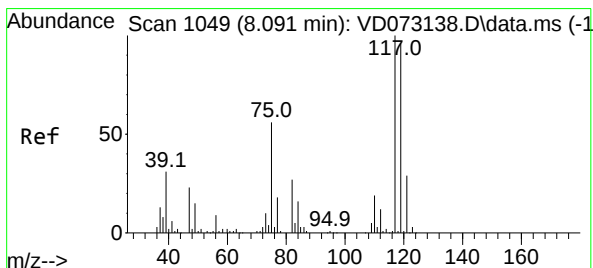
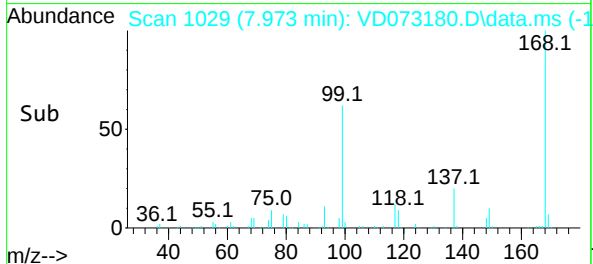
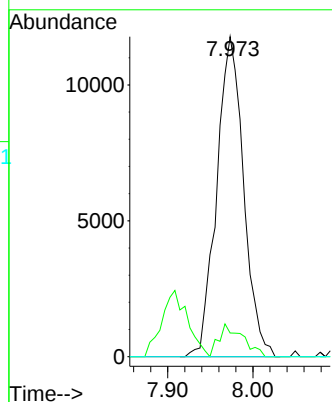
Tgt Ion: 75 Resp: 25847

Ion Ratio Lower Upper

75 100

110 9.0 16.4 49.1#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 6.047 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.118 min

Lab File: VD073180.D

Acq: 20 May 2022 12:29

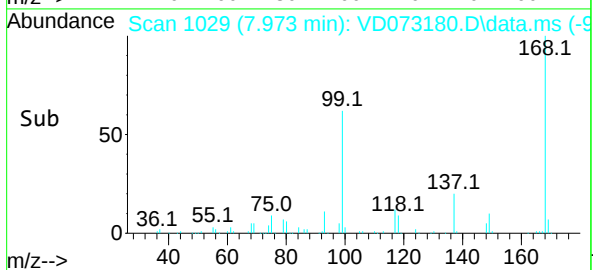
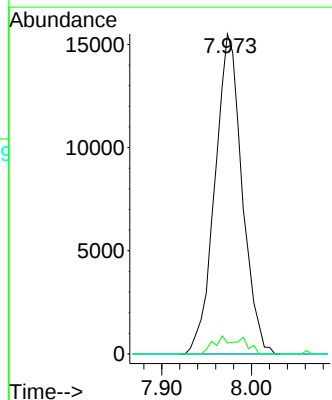
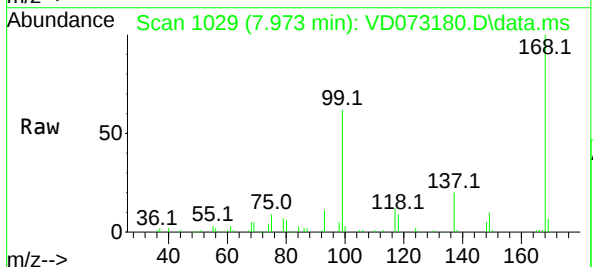
Tgt Ion: 117 Resp: 32595

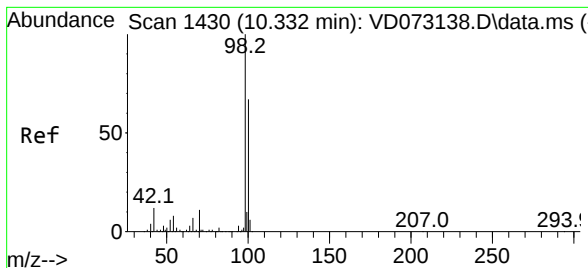
Ion Ratio Lower Upper

117 100

119 3.4 75.8 113.6#

121 0.0 24.5 36.7#

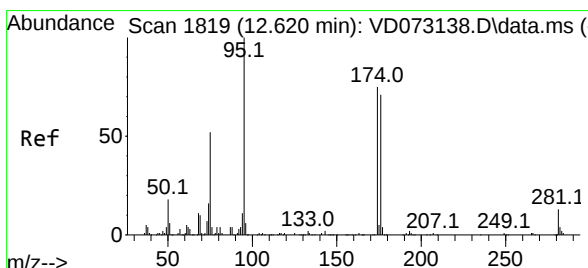
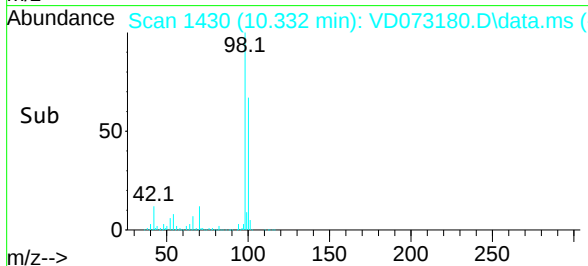
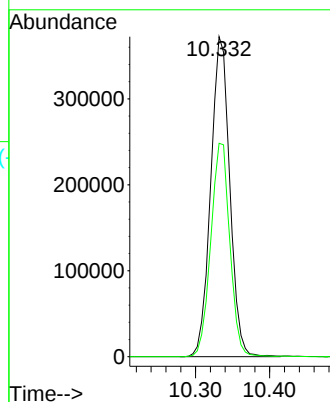
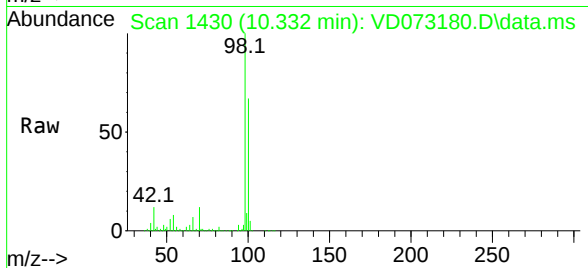




#50  
Toluene-d8  
Concen: 50.863 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

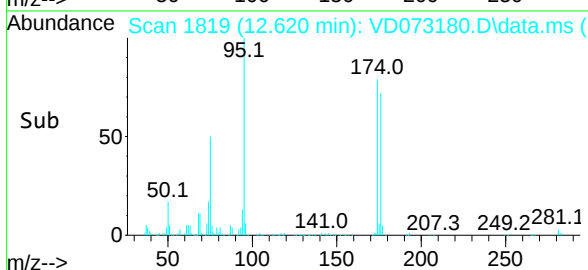
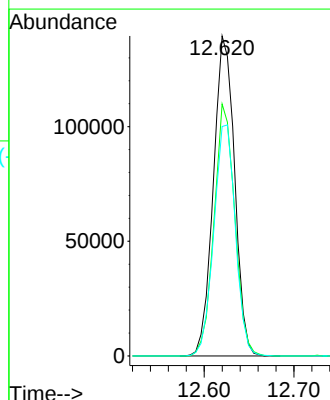
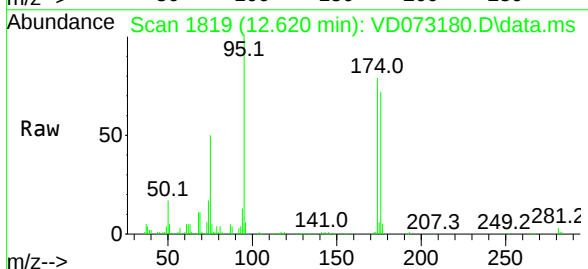
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS005-0006-01

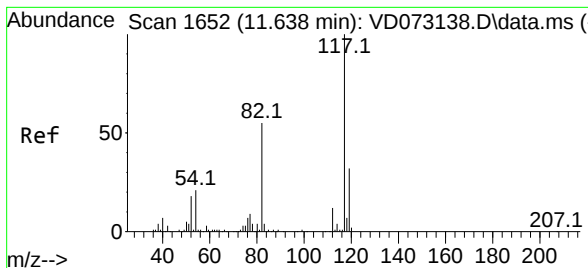
Tgt Ion: 98 Resp: 662861  
Ion Ratio Lower Upper  
98 100  
100 66.8 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 50.062 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

Tgt Ion: 95 Resp: 228963  
Ion Ratio Lower Upper  
95 100  
174 77.0 0.0 152.8  
176 73.5 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.638 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD073180.D

Acq: 20 May 2022 12:29

Instrument :

MSVOA\_D

ClientSampleId :

P023-SS005-0006-01

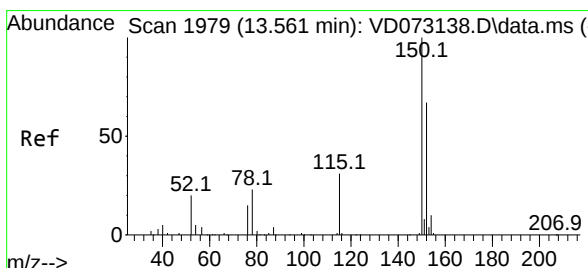
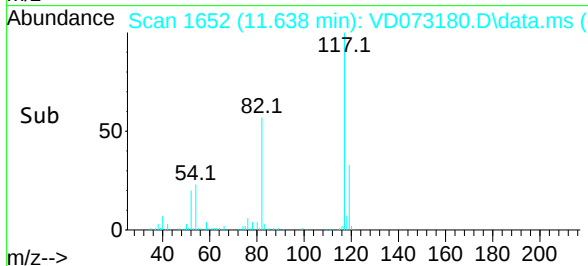
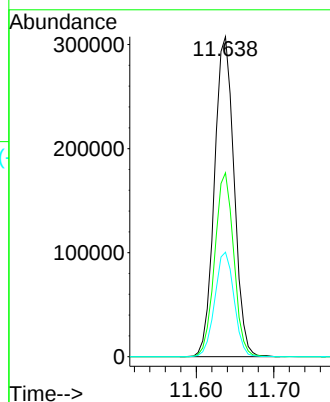
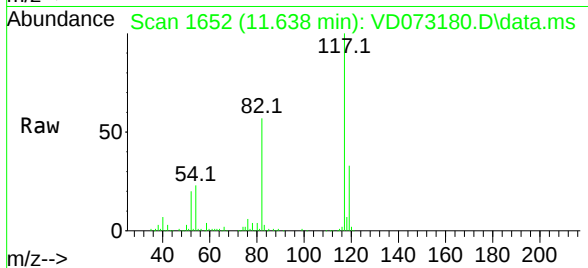
Tgt Ion:117 Resp: 541688

Ion Ratio Lower Upper

117 100

82 57.4 45.3 67.9

119 32.6 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: VD073180.D

Acq: 20 May 2022 12:29

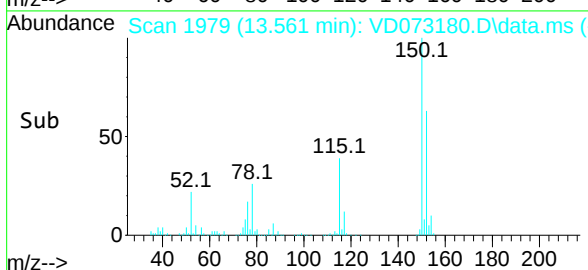
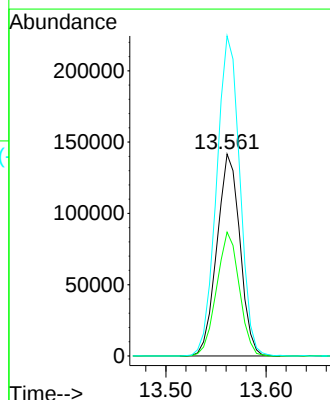
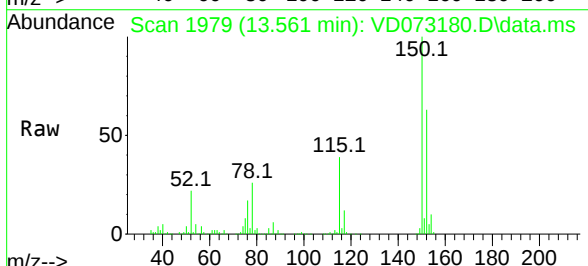
Tgt Ion:152 Resp: 225673

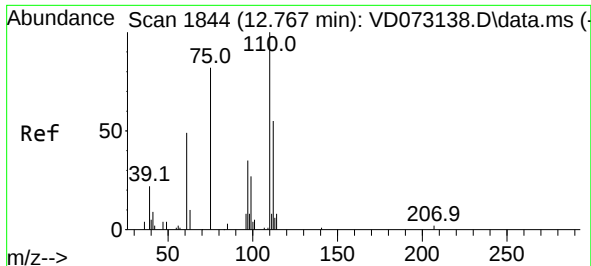
Ion Ratio Lower Upper

152 100

115 60.6 31.3 93.8

150 160.1 0.0 348.6

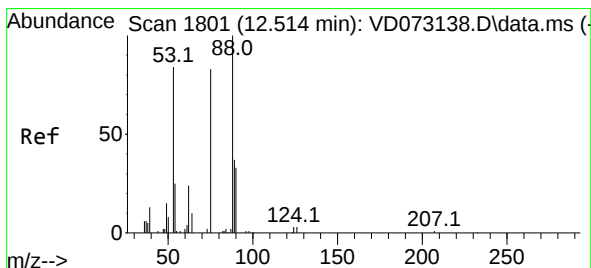
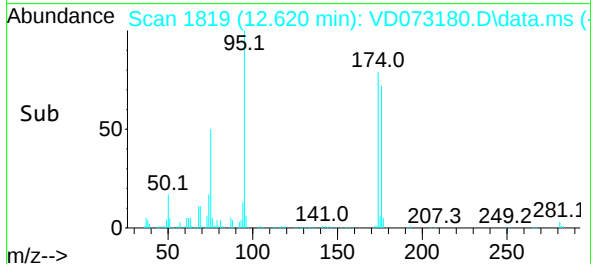
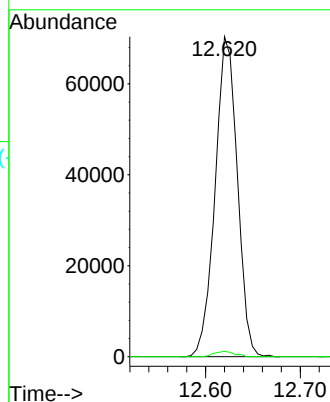
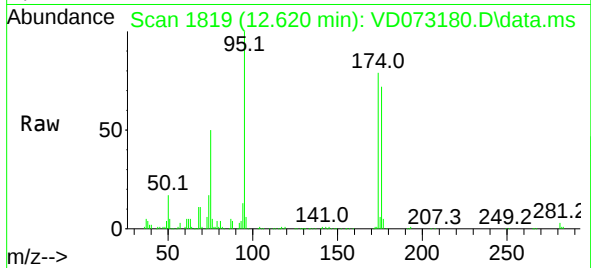




#76  
1,2,3-Trichloropropane  
Concen: 51.764 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

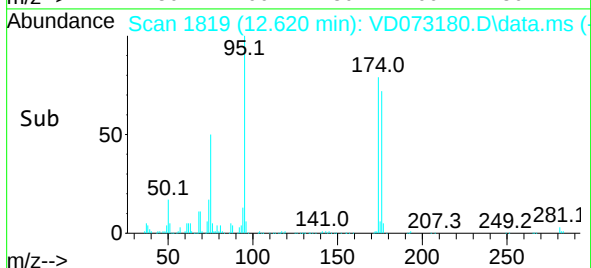
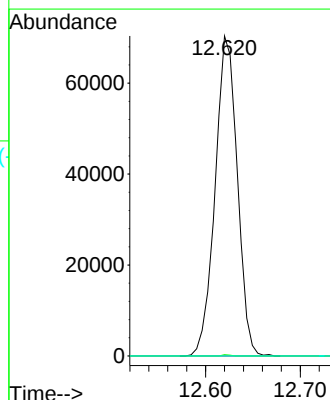
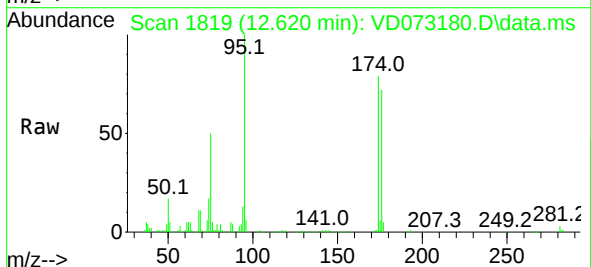
Instrument :  
MSVOA\_D  
ClientSampleId :  
P023-SS005-0006-01

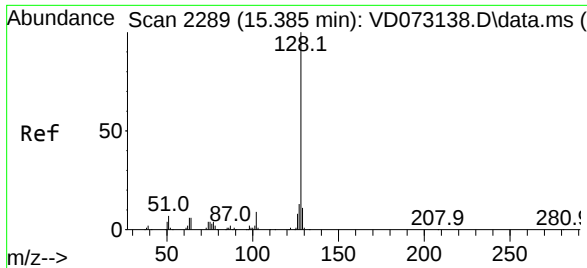
Tgt Ion: 75 Resp: 114619  
Ion Ratio Lower Upper  
75 100  
77 1.5 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 124.271 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.106 min  
Lab File: VD073180.D  
Acq: 20 May 2022 12:29

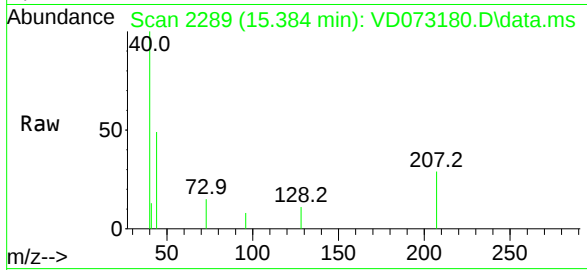
Tgt Ion: 75 Resp: 114619  
Ion Ratio Lower Upper  
75 100  
53 0.1 86.5 129.7#  
89 0.0 33.9 50.9#





#95  
 Naphthalene  
 Concen: 3.561 ug/l  
 RT: 15.384 min Scan# 21  
 Delta R.T. -0.001 min  
 Lab File: VD073180.D  
 Acq: 20 May 2022 12:29

Instrument : MSVOA\_D  
 ClientSampleId : P023-SS005-0006-01



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 154   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.3  | 15.5# |
| 129      | 0.0   | 8.4   | 12.6# |

