

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051122\  
 Data File : VD072934.D  
 Acq On : 11 May 2022 16:46  
 Operator : VA/SY  
 Sample : N2749-04  
 Misc : 3.87G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-2

Quant Time: May 12 04:13:30 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

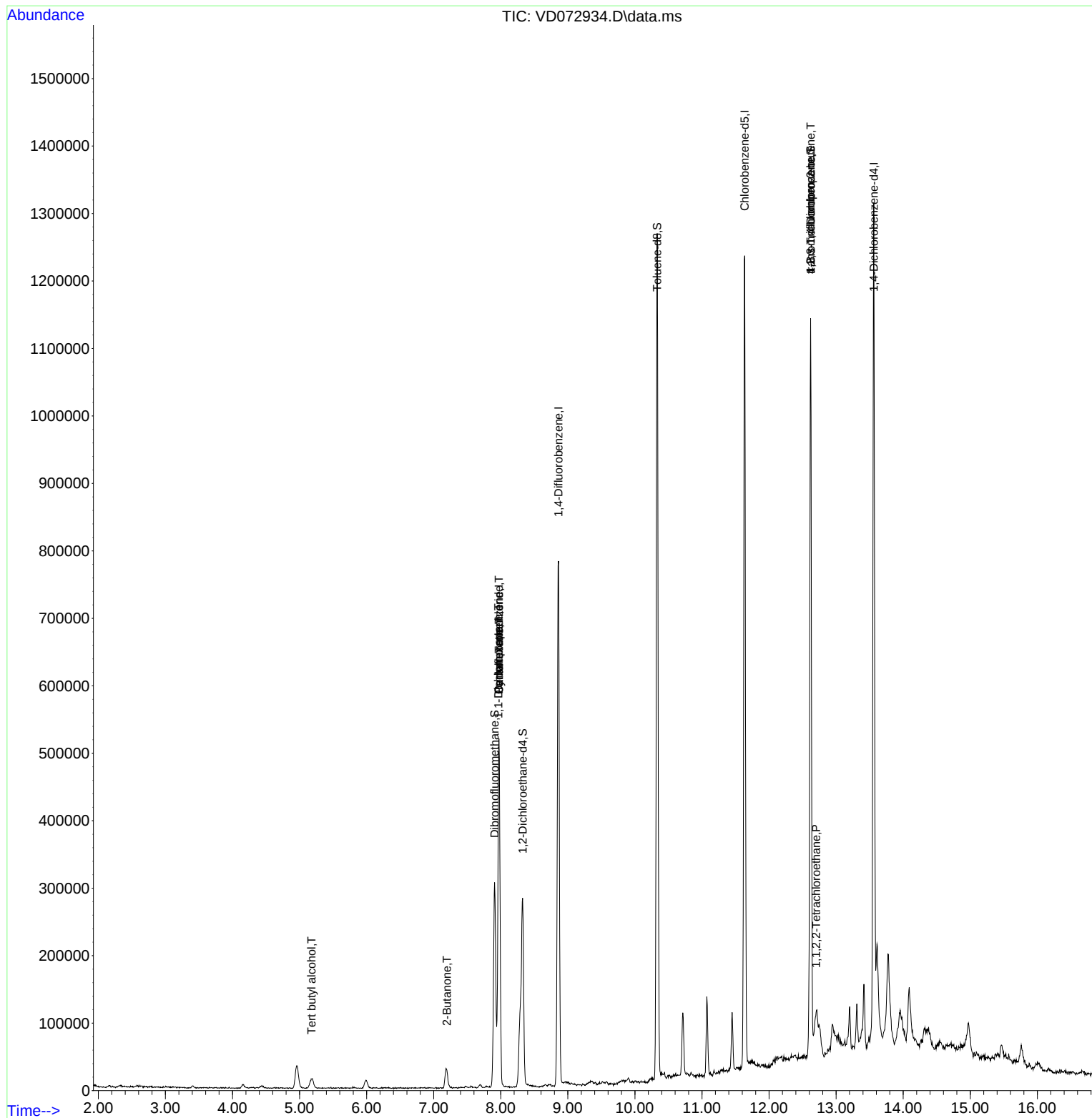
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 376313     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 680352     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 700076     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 320459     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 207396     | 42.457    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 84.920%   |        |          |
| 35) Dibromofluoromethane      | 7.908          | 113  | 217025     | 45.420    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 90.840%   |        |          |
| 50) Toluene-d8                | 10.332         | 98   | 851620     | 49.687    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 99.380%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 331190     | 51.822    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 103.640%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
| 5) Bromomethane               | 2.779          | 94   | 1033       | Below Cal | #      | 63       |
| 11) Tert butyl alcohol        | 5.179          | 59   | 14785      | 34.983    | ug/l # | 74       |
| 16) Acetone                   | 4.150          | 43   | 4451       | Below Cal |        | 92       |
| 18) Methyl Acetate            | 4.709          | 43   | 59         | Below Cal | #      | 55       |
| 20) Methylene Chloride        | 4.961          | 84   | 27747      | Below Cal |        | 87       |
| 25) 2-Butanone                | 7.197          | 43   | 2000       | 1.405     | ug/l # | 52       |
| 31) Cyclohexane               | 7.973          | 56   | 8757       | 1.026     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.967          | 75   | 30821      | 3.967     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.973          | 117  | 39107      | 4.849     | ug/l # | 17       |
| 75) 1,1,2,2-Tetrachloroethane | 12.702         | 83   | 15792      | 3.138     | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 169566     | 47.453    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 169566     | 109.123   | ug/l # | 7        |
| -----                         |                |      |            |           |        |          |

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

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Instrument :  
MSVOA\_D  
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Quant Time: May 12 04:13:30 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

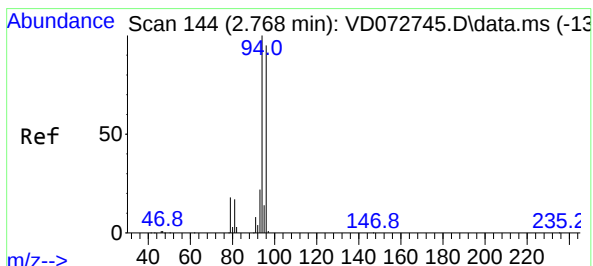
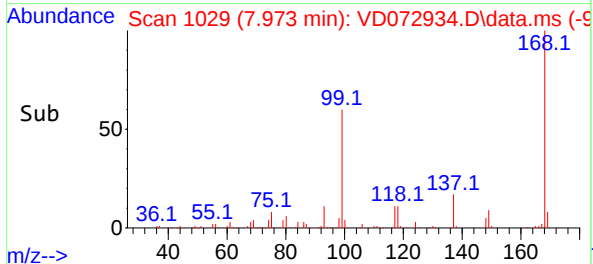
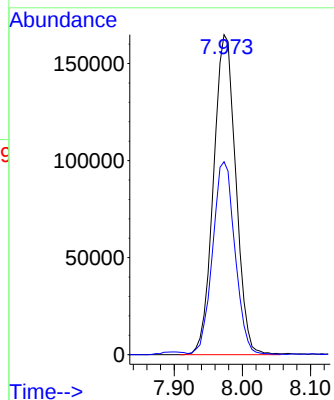
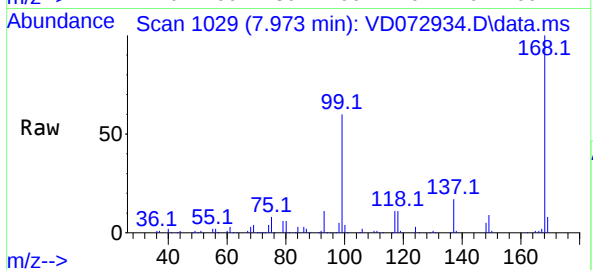




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

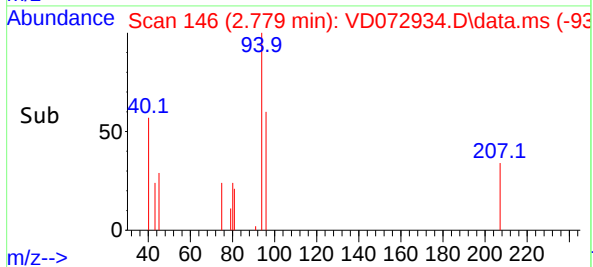
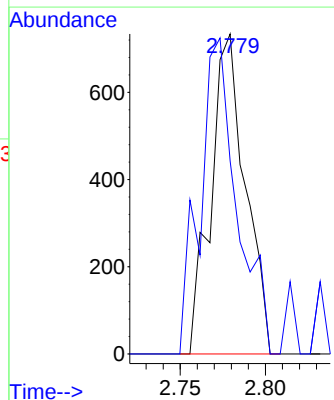
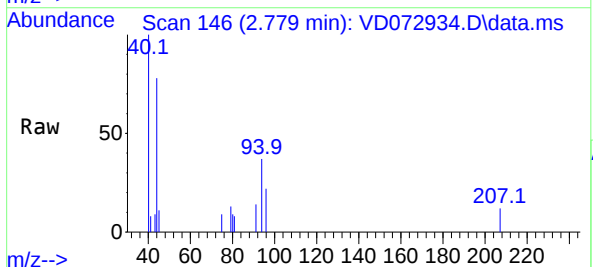
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

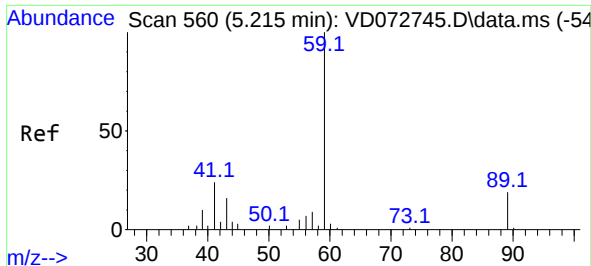
Tgt Ion:168 Resp: 376313  
Ion Ratio Lower Upper  
168 100  
99 60.2 49.8 74.6



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.011 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

Tgt Ion: 94 Resp: 1033  
Ion Ratio Lower Upper  
94 100  
96 60.4 77.6 116.4#





#11

Tert butyl alcohol

Concen: 34.983 ug/l

RT: 5.179 min Scan# 51

Delta R.T. -0.036 min

Lab File: VD072934.D

Acq: 11 May 2022 16:46

Instrument :

MSVOA\_D

ClientSampleId :

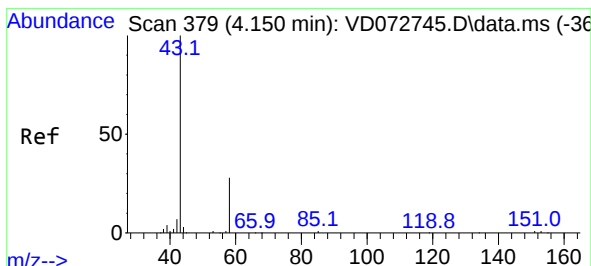
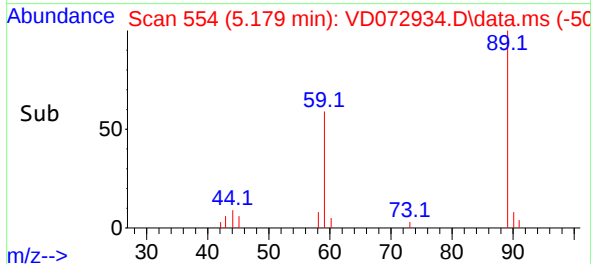
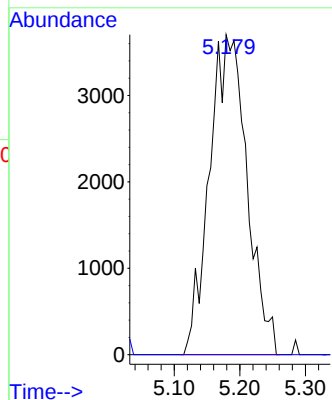
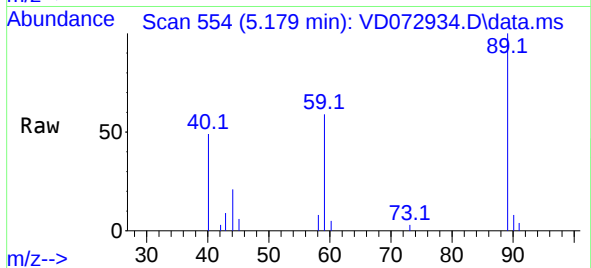
TP-2

Tgt Ion: 59 Resp: 14785

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



#16

Acetone

Concen: Below Cal

RT: 4.150 min Scan# 379

Delta R.T. -0.000 min

Lab File: VD072934.D

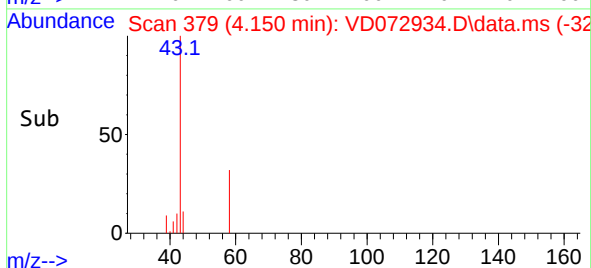
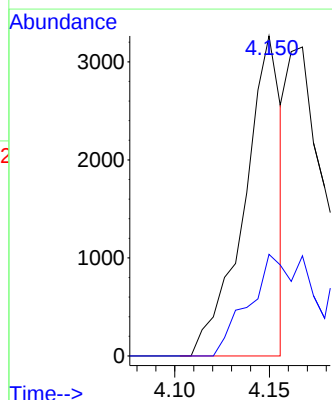
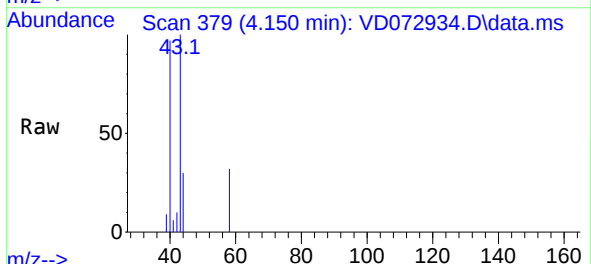
Acq: 11 May 2022 16:46

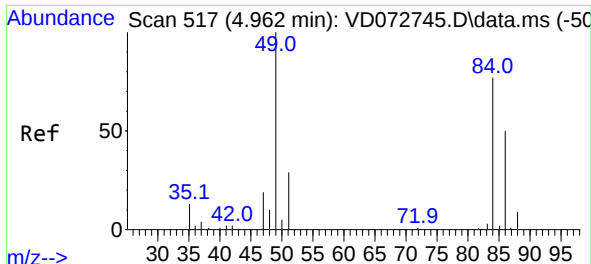
Tgt Ion: 43 Resp: 4451

Ion Ratio Lower Upper

43 100

58 31.7 22.1 33.1



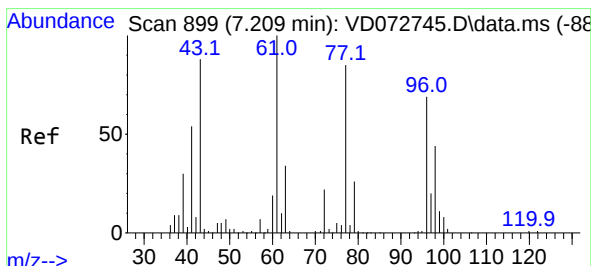
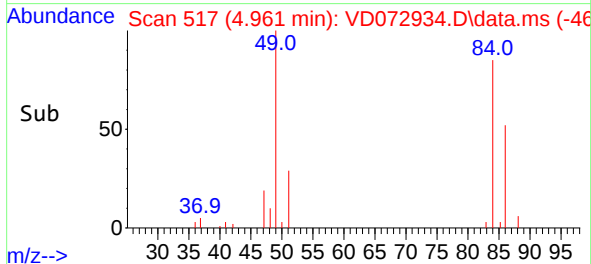
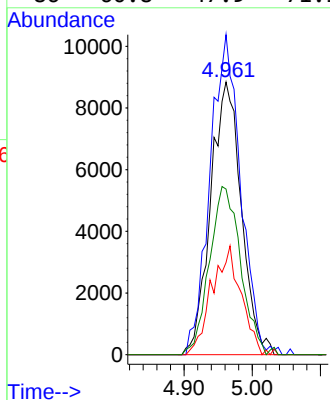
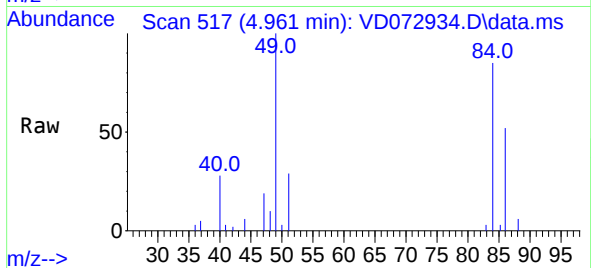


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.961 min Scan# 517  
Delta R.T. -0.001 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

Tgt Ion: 84 Resp: 27747

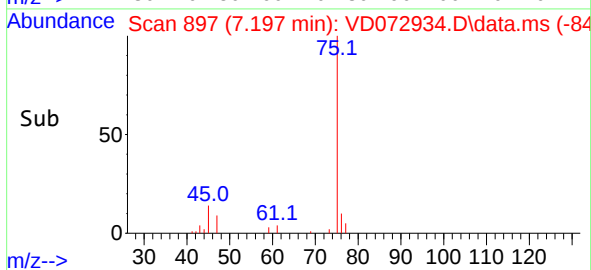
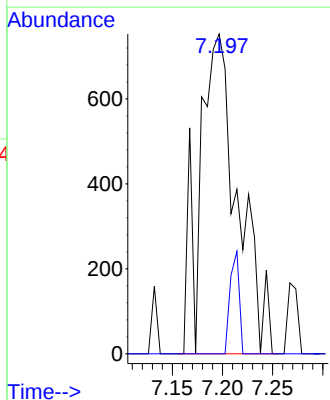
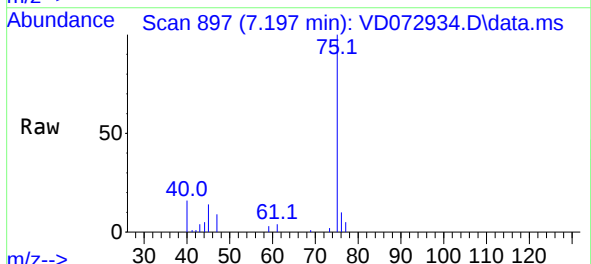
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 117.4 | 112.8 | 169.2 |
| 51  | 33.8  | 32.6  | 48.8  |
| 86  | 60.8  | 47.9  | 71.9  |

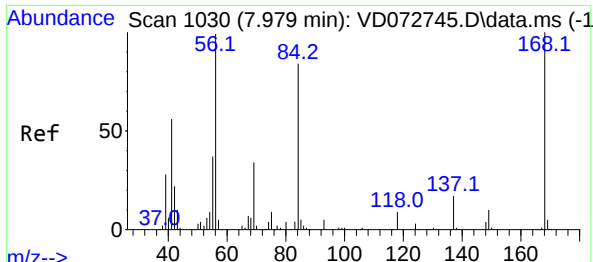


#25  
2-Butanone  
Concen: 1.405 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.012 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

Tgt Ion: 43 Resp: 2000

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

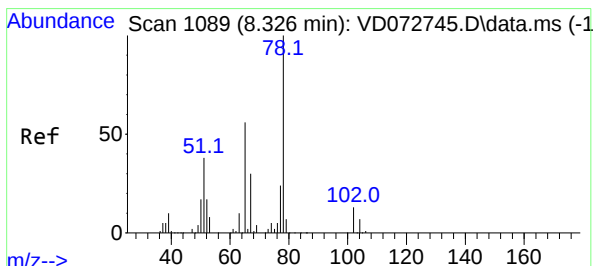
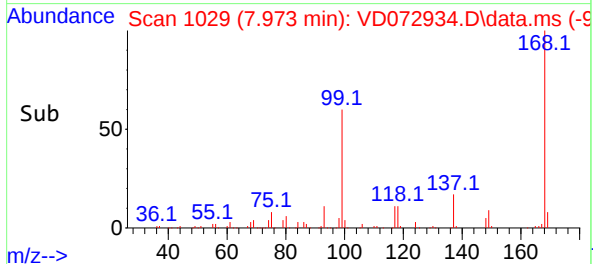
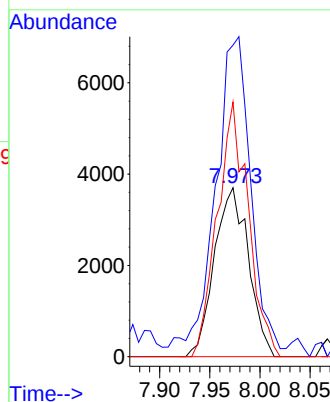
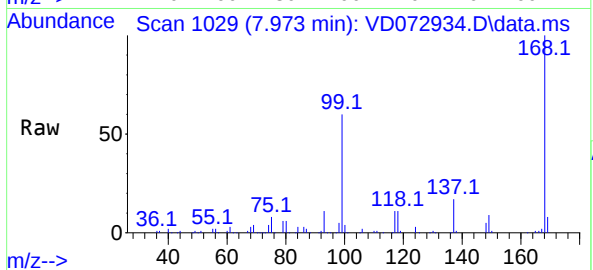




#31  
Cyclohexane  
Concen: 1.026 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

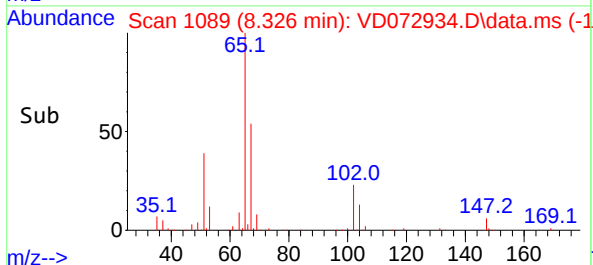
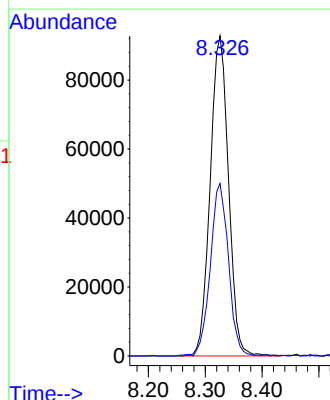
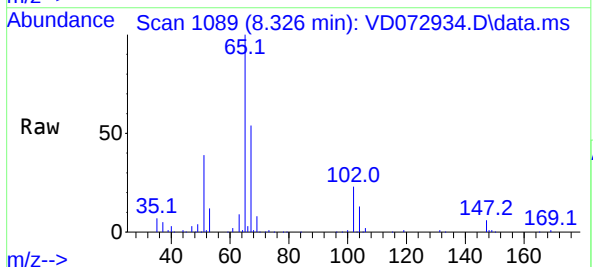
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

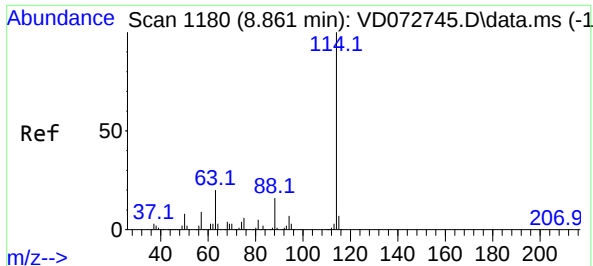
Tgt Ion: 56 Resp: 8757  
Ion Ratio Lower Upper  
56 100  
69 179.6 25.4 38.2#  
84 150.6 63.0 94.4#



#33  
1,2-Dichloroethane-d4  
Concen: 42.457 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

Tgt Ion: 65 Resp: 207396  
Ion Ratio Lower Upper  
65 100  
67 53.5 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: VD072934.D

Acq: 11 May 2022 16:46

Instrument :

MSVOA\_D

ClientSampleId :

TP-2

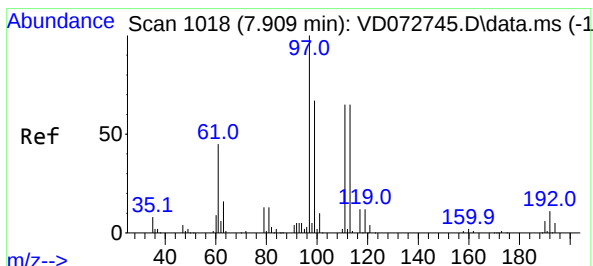
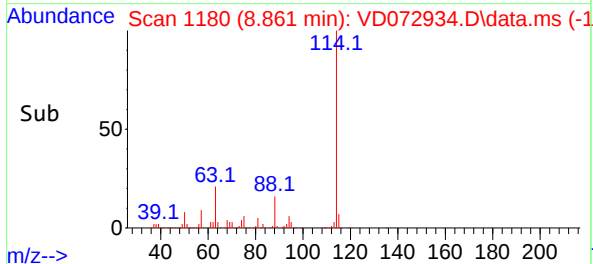
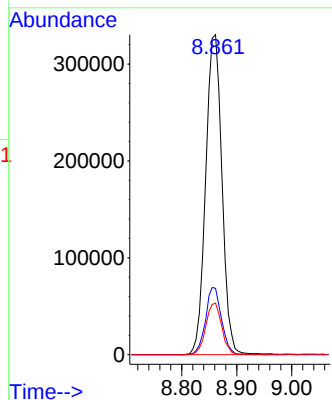
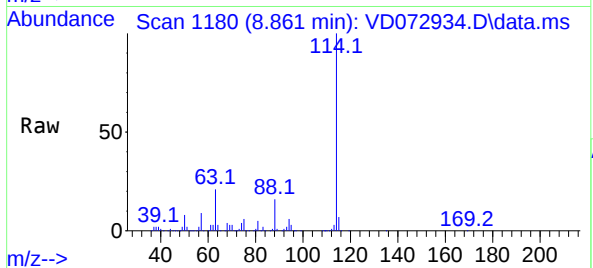
Tgt Ion:114 Resp: 680352

Ion Ratio Lower Upper

114 100

63 20.7 0.0 46.6

88 16.1 0.0 33.2



#35

Dibromofluoromethane

Concen: 45.420 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.001 min

Lab File: VD072934.D

Acq: 11 May 2022 16:46

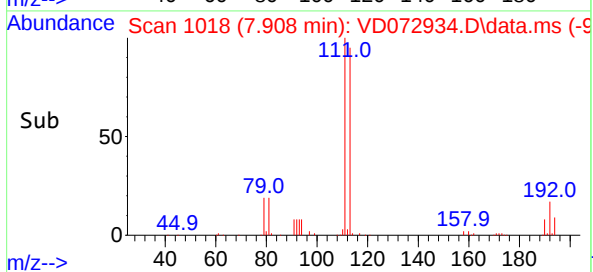
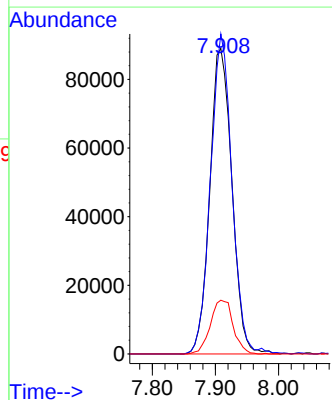
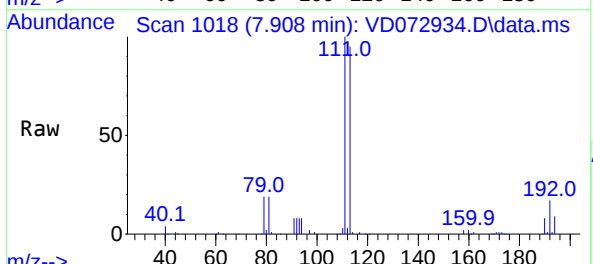
Tgt Ion:113 Resp: 217025

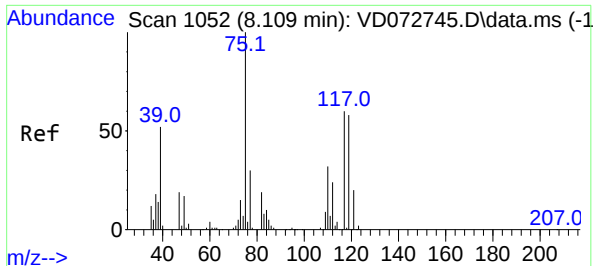
Ion Ratio Lower Upper

113 100

111 101.7 83.8 125.6

192 18.1 14.6 21.8





#36

1,1-Dichloropropene

Concen: 3.967 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.142 min

Lab File: VD072934.D

Acq: 11 May 2022 16:46

Instrument :

MSVOA\_D

ClientSampleId :

TP-2

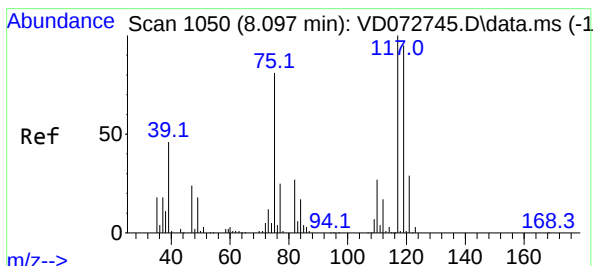
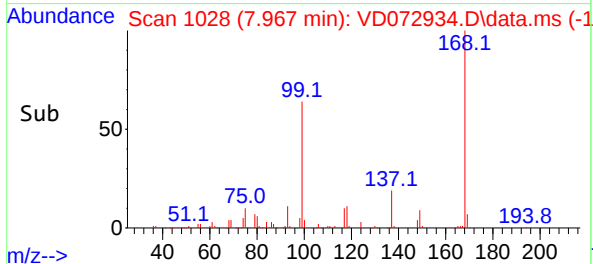
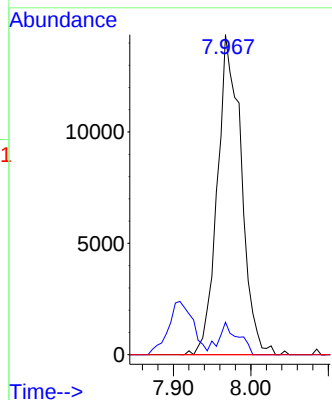
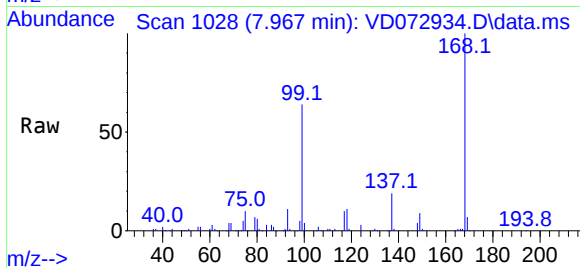
Tgt Ion: 75 Resp: 30821

Ion Ratio Lower Upper

75 100

110 8.2 16.4 49.1#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 4.849 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.124 min

Lab File: VD072934.D

Acq: 11 May 2022 16:46

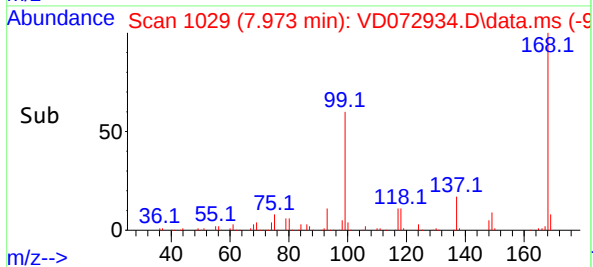
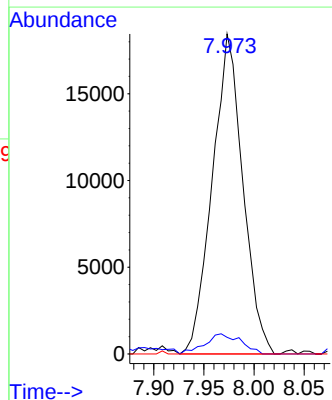
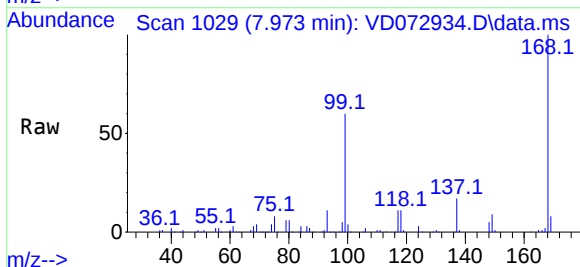
Tgt Ion: 117 Resp: 39107

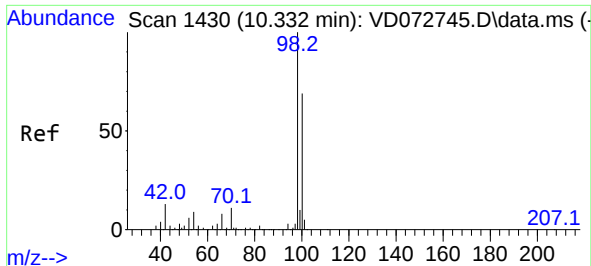
Ion Ratio Lower Upper

117 100

119 5.2 75.8 113.6#

121 0.0 24.5 36.7#

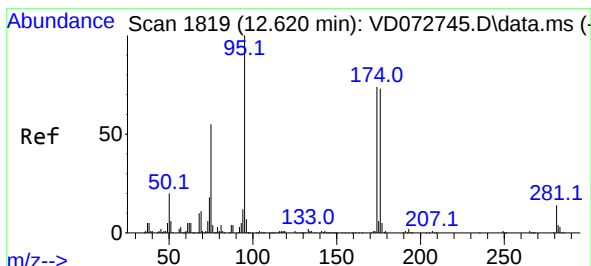
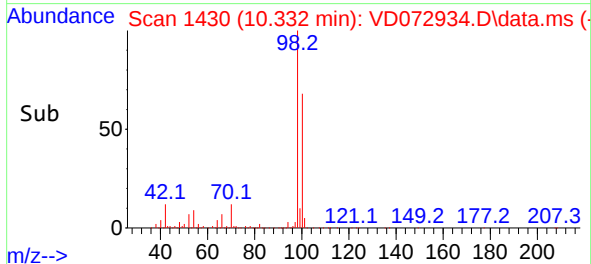
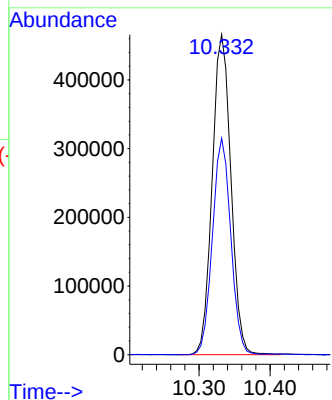
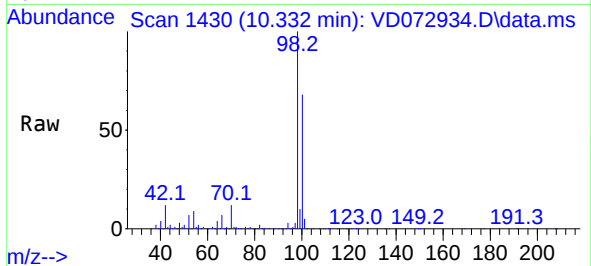




#50  
Toluene-d8  
Concen: 49.687 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

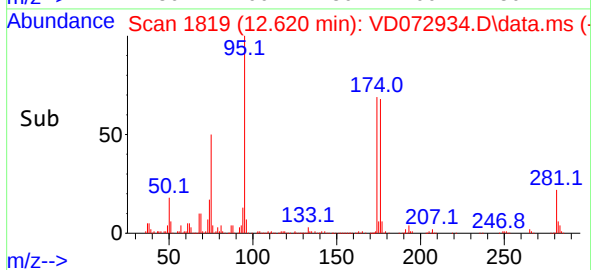
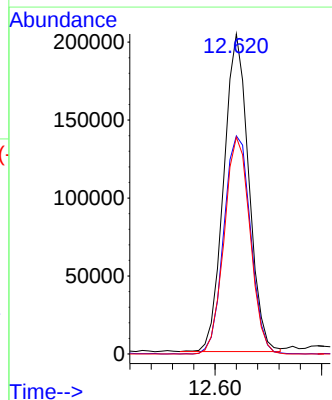
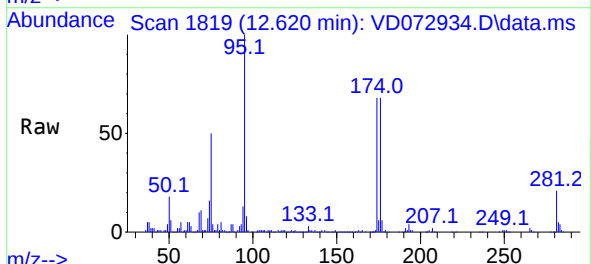
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

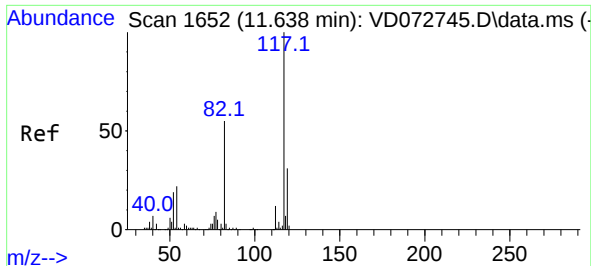
Tgt Ion: 98 Resp: 851620  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 51.822 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

Tgt Ion: 95 Resp: 331190  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 152.8  
176 70.7 0.0 145.4

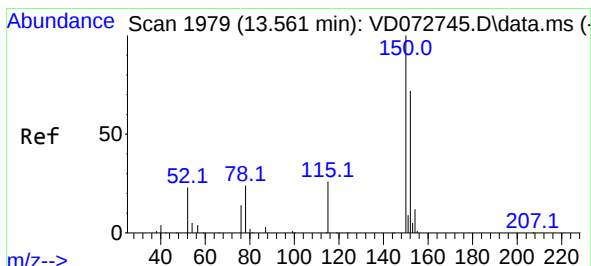
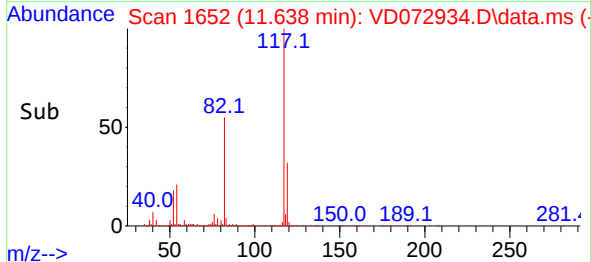
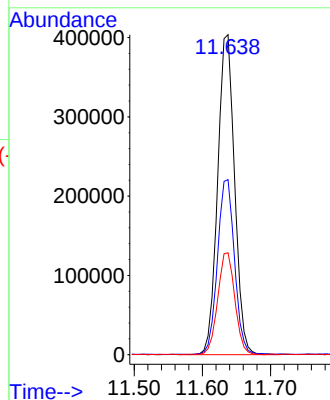
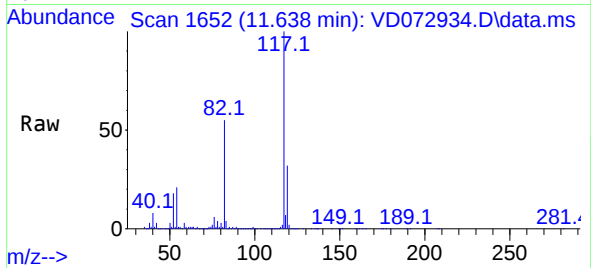




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

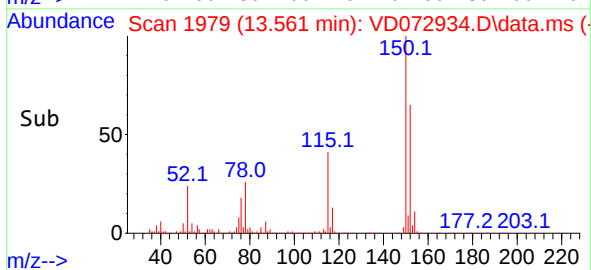
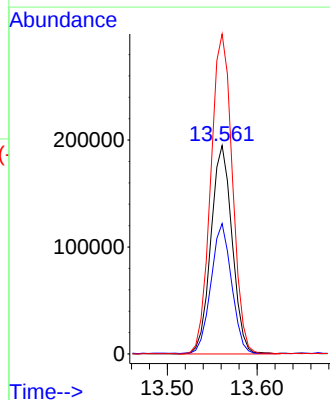
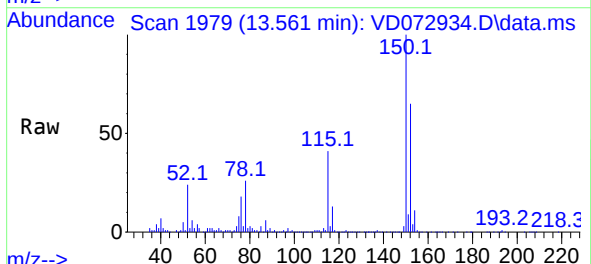
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

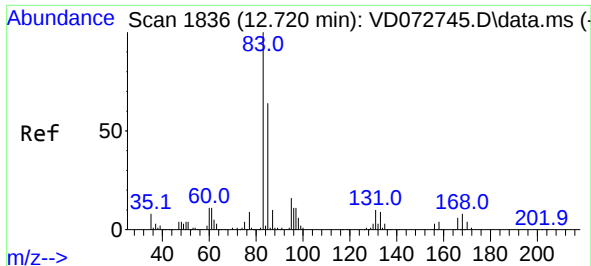
Tgt Ion:117 Resp: 700076  
Ion Ratio Lower Upper  
117 100  
82 54.6 45.3 67.9  
119 31.8 26.6 40.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

Tgt Ion:152 Resp: 320459  
Ion Ratio Lower Upper  
152 100  
115 60.3 31.3 93.8  
150 156.4 0.0 348.6

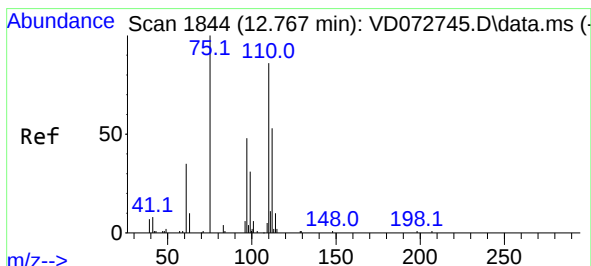
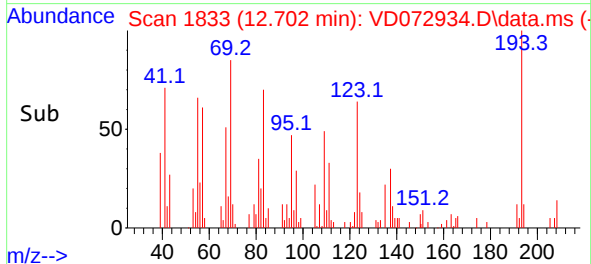
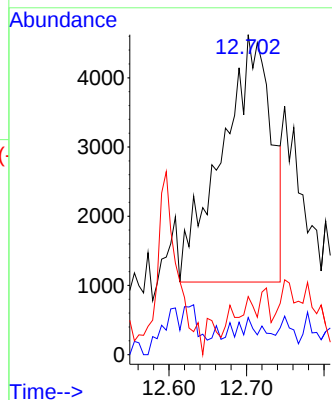
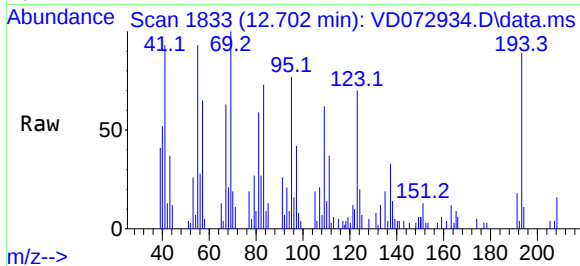




#75  
1,1,2,2-Tetrachloroethane  
Concen: 3.138 ug/l  
RT: 12.702 min Scan# 1836  
Delta R.T. -0.018 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

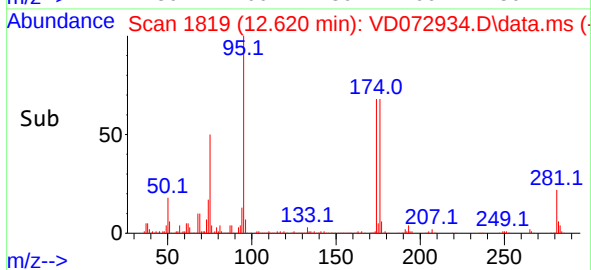
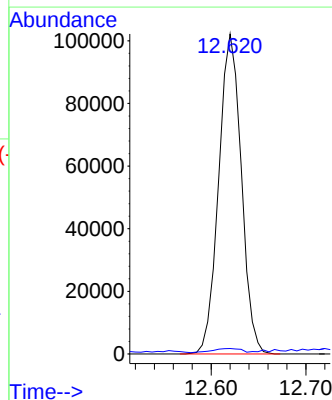
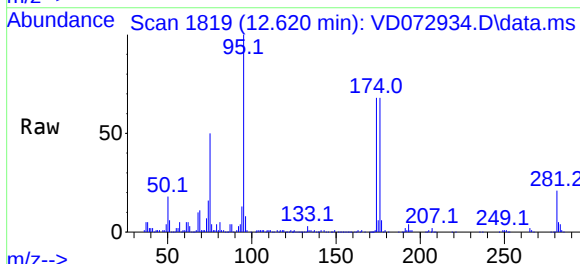
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-2

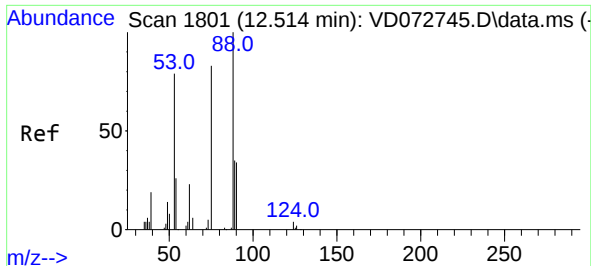
Tgt Ion: 83 Resp: 15792  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.0 14.9#  
85 1.1 32.6 98.0#



#76  
1,2,3-Trichloropropane  
Concen: 47.453 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD072934.D  
Acq: 11 May 2022 16:46

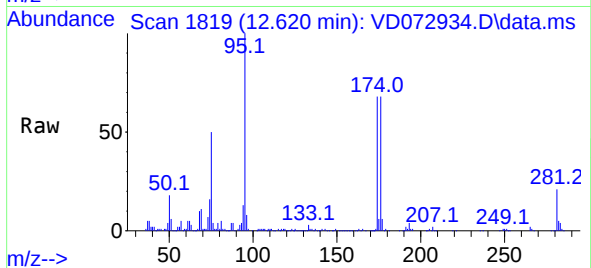
Tgt Ion: 75 Resp: 169566  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 109.123 ug/l  
 RT: 12.620 min Scan# 1819  
 Delta R.T. 0.106 min  
 Lab File: VD072934.D  
 Acq: 11 May 2022 16:46

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-2



Tgt Ion: 75 Resp: 169566  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 86.5 129.7#  
 89 0.2 33.9 50.9#

