

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080222\  
 Data File : VD073933.D  
 Acq On : 02 Aug 2022 18:29  
 Operator : VA/SY  
 Sample : N3976-05RE  
 Misc : 4.19G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP3-0729

Quant Time: Aug 03 04:14:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D080122S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 02 05:13:57 2022  
 Response via : Initial Calibration

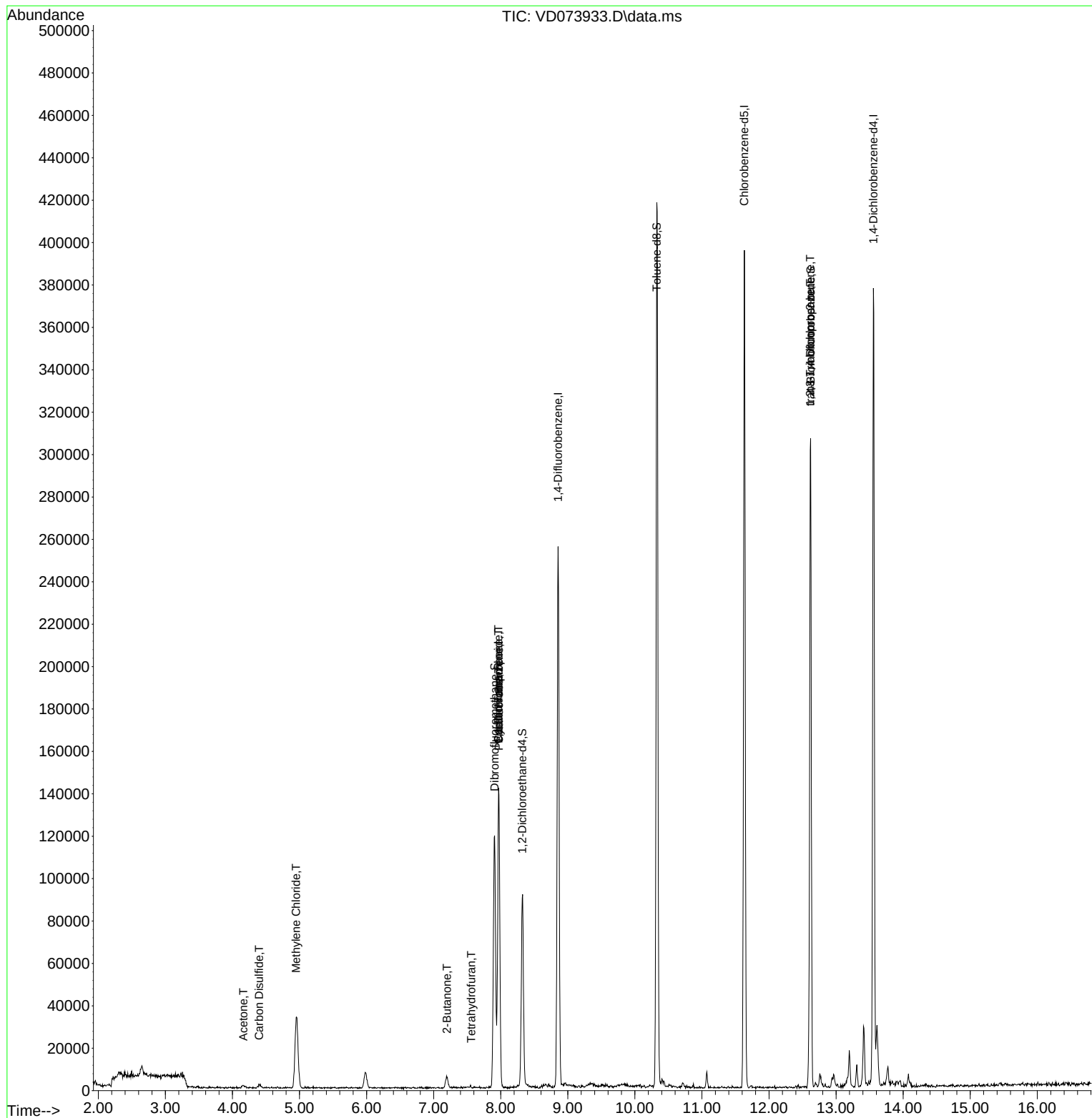
| Compound                      | R.T.   | QIon  | Response | Conc      | Units       | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------------|----------|
| -----                         |        |       |          |           |             |          |
| Internal Standards            |        |       |          |           |             |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 98862    | 50.000    | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.856  | 114   | 217987   | 50.000    | ug/l        | 0.00     |
| 63) Chlorobenzene-d5          | 11.632 | 117   | 220535   | 50.000    | ug/l        | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.555 | 152   | 97833    | 50.000    | ug/l        | 0.00     |
|                               |        |       |          |           |             |          |
| System Monitoring Compounds   |        |       |          |           |             |          |
| 33) 1,2-Dichloroethane-d4     | 8.320  | 65    | 71733    | 92.073    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 184.140%# |          |
| 35) Dibromofluoromethane      | 7.909  | 113   | 81714    | 60.333    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 120.660%  |          |
| 50) Toluene-d8                | 10.326 | 98    | 283361   | 62.110    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 124.220%  |          |
| 62) 4-Bromofluorobenzene      | 12.620 | 95    | 96703    | 57.639    | ug/l        | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 115.280%  |          |
|                               |        |       |          |           |             |          |
| Target Compounds              |        |       |          |           |             | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.991  | 85    | 72       | Below Cal | #           | 43       |
| 16) Acetone                   | 4.162  | 43    | 2332     | 20.551    | ug/l        | 98       |
| 17) Carbon Disulfide          | 4.397  | 76    | 3274     | 2.944     | ug/l #      | 75       |
| 18) Methyl Acetate            | 4.991  | 43    | 64       | Below Cal | #           | 48       |
| 20) Methylene Chloride        | 4.950  | 84    | 26593    | 13.597    | ug/l        | 90       |
| 25) 2-Butanone                | 7.197  | 43    | 540      | 2.238     | ug/l #      | 46       |
| 29) Tetrahydrofuran           | 7.562  | 42    | 165      | 1.170     | ug/l #      | 30       |
| 31) Cyclohexane               | 7.967  | 56    | 2899     | 1.894     | ug/l #      | 31       |
| 36) 1,1-Dichloropropene       | 7.967  | 75    | 9014     | 4.673     | ug/l #      | 49       |
| 38) Carbon Tetrachloride      | 7.967  | 117   | 11233    | 5.198     | ug/l #      | 15       |
| 76) 1,2,3-Trichloropropane    | 12.614 | 75    | 52204    | 72.065    | ug/l #      | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.614 | 75    | 52204    | 153.089   | ug/l #      | 13       |
| -----                         |        |       |          |           |             |          |

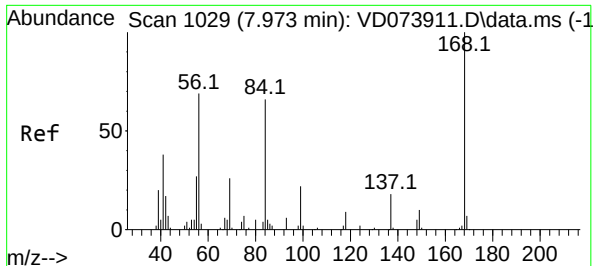
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0729

Quant Time: Aug 03 04:14:49 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D080122S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 02 05:13:57 2022  
Response via : Initial Calibration

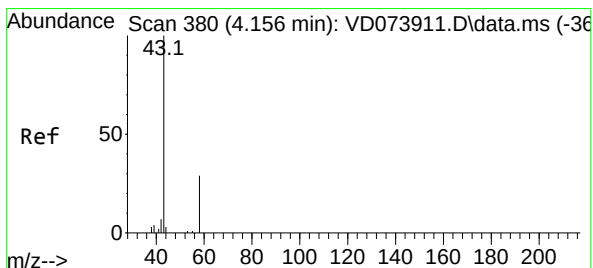
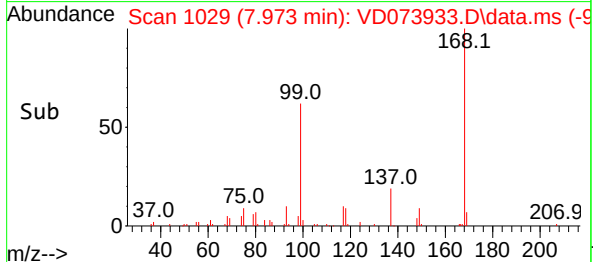
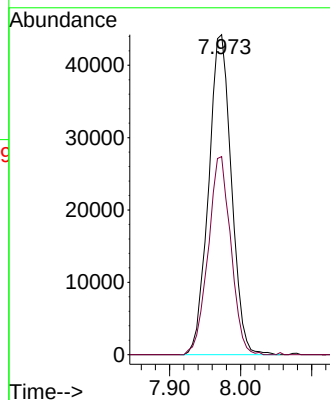
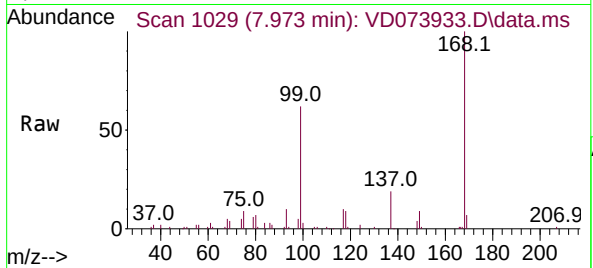




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD073933.D  
Acq: 02 Aug 2022 18:29

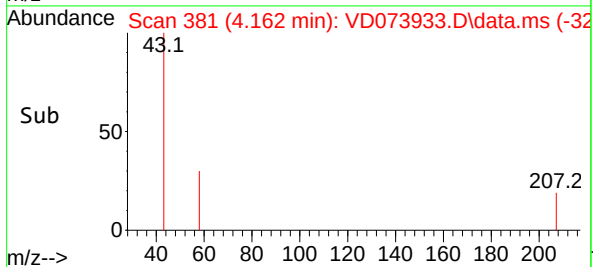
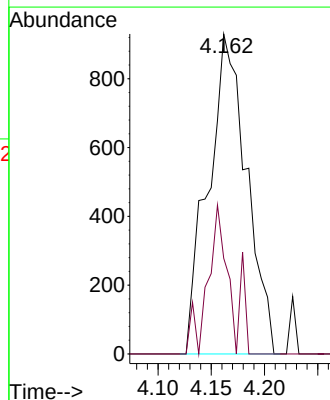
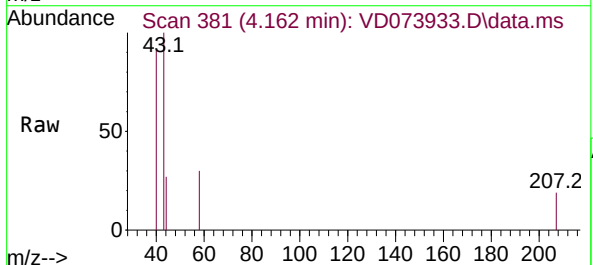
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0729

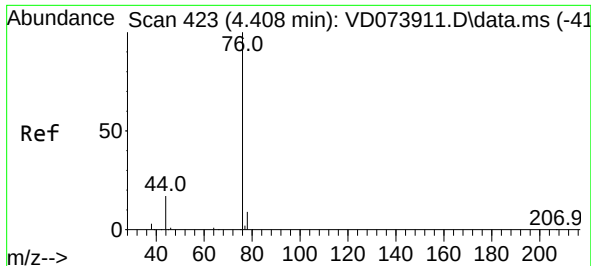
Tgt Ion:168 Resp: 98862  
Ion Ratio Lower Upper  
168 100  
99 61.9 52.2 78.4



#16  
Acetone  
Concen: 20.551 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD073933.D  
Acq: 02 Aug 2022 18:29

Tgt Ion: 43 Resp: 2332  
Ion Ratio Lower Upper  
43 100  
58 29.9 23.0 34.6





#17

Carbon Disulfide

Concen: 2.944 ug/l

RT: 4.397 min Scan# 41

Delta R.T. -0.011 min

Lab File: VD073933.D

Acq: 02 Aug 2022 18:29

Instrument :

MSVOA\_D

ClientSampleId :

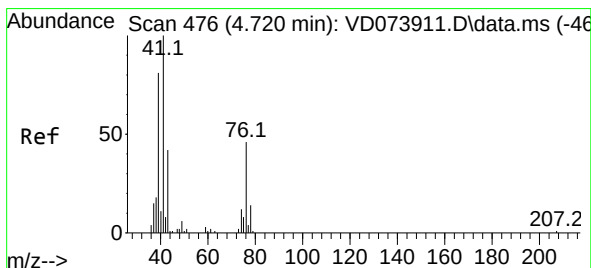
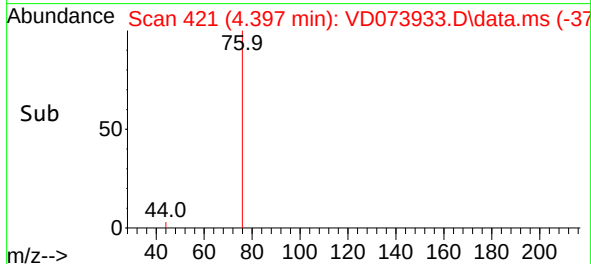
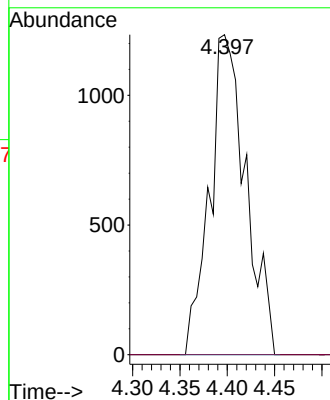
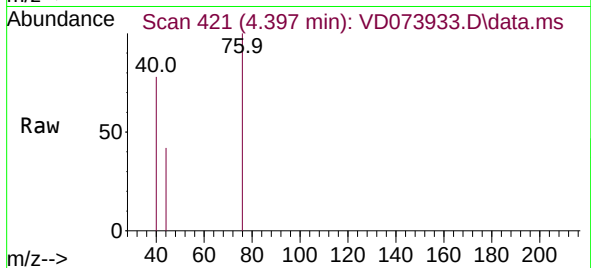
TP3-0729

Tgt Ion: 76 Resp: 3274

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.991 min Scan# 522

Delta R.T. 0.271 min

Lab File: VD073933.D

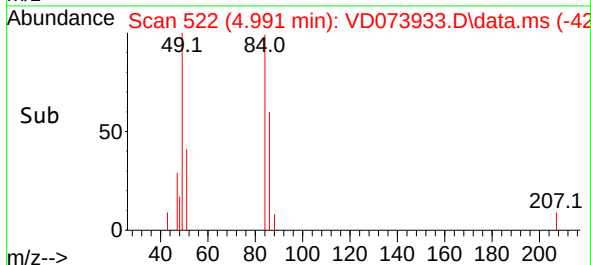
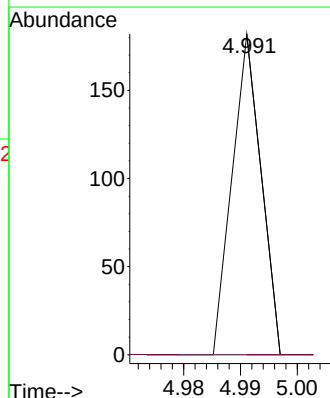
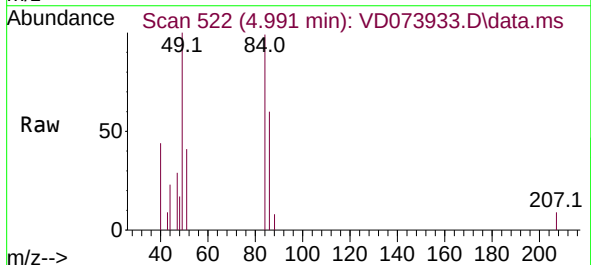
Acq: 02 Aug 2022 18:29

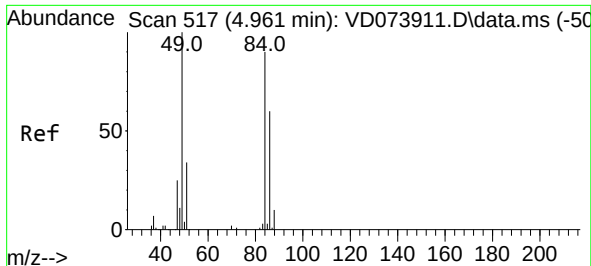
Tgt Ion: 43 Resp: 64

Ion Ratio Lower Upper

43 100

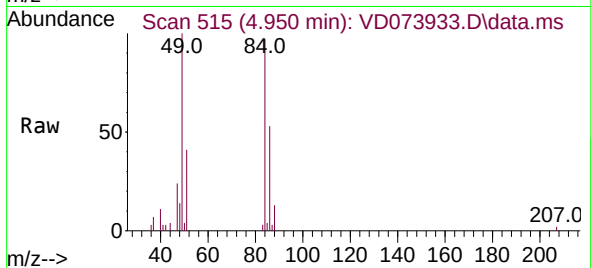
74 0.0 21.2 31.8#



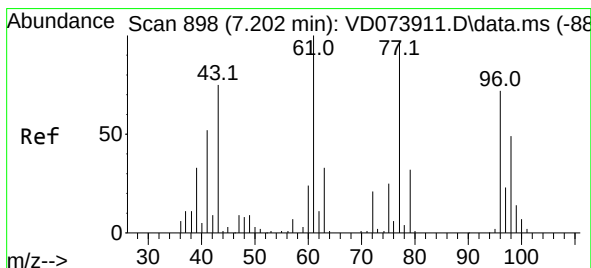
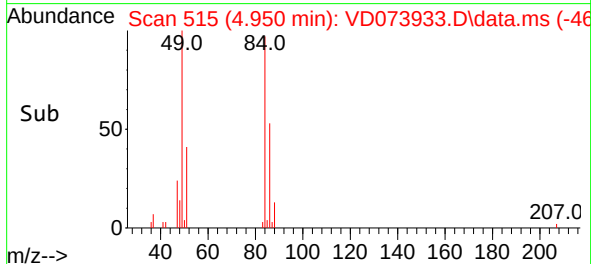
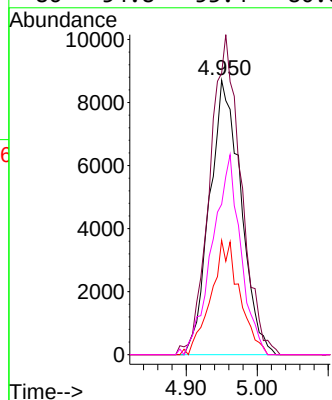


#20  
Methylene Chloride  
Concen: 13.597 ug/l  
RT: 4.950 min Scan# 517  
Delta R.T. -0.011 min  
Lab File: VD073933.D  
Acq: 02 Aug 2022 18:29

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0729

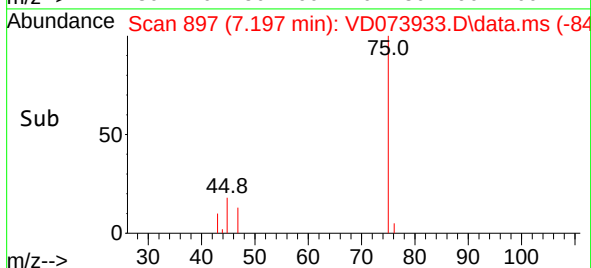
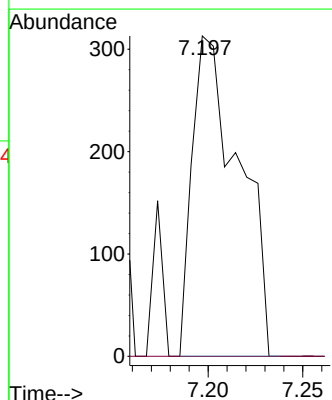
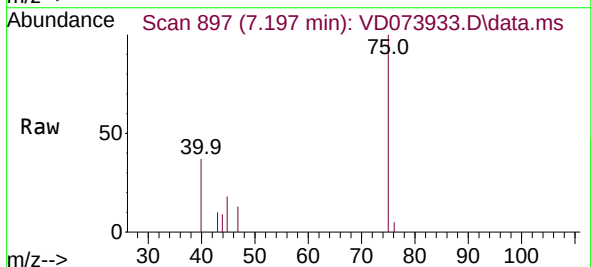


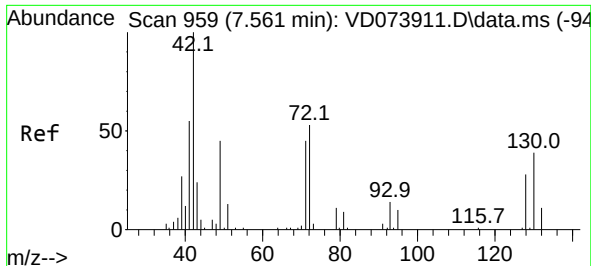
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 26593 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 102.6 | 89.1  | 133.7 |
| 51       | 41.6  | 29.8  | 44.8  |
| 86       | 54.8  | 53.4  | 80.0  |



#25  
2-Butanone  
Concen: 2.238 ug/l  
RT: 7.197 min Scan# 897  
Delta R.T. -0.006 min  
Lab File: VD073933.D  
Acq: 02 Aug 2022 18:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 540   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 22.7  | 34.1# |





#29

Tetrahydrofuran

Concen: 1.170 ug/l

RT: 7.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: VD073933.D

Acq: 02 Aug 2022 18:29

Instrument :

MSVOA\_D

ClientSampleId :

TP3-0729

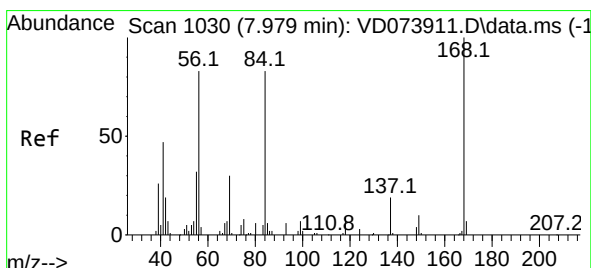
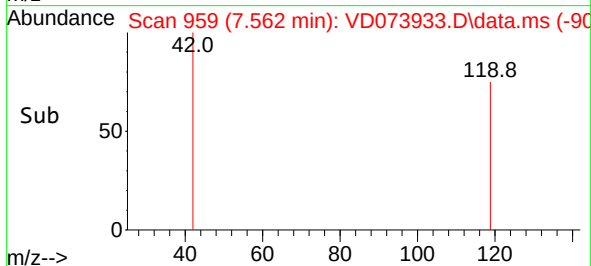
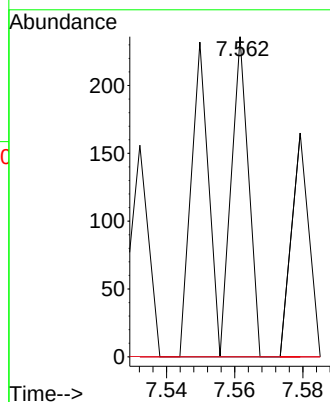
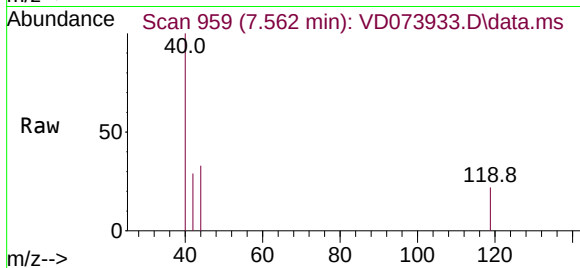
Tgt Ion: 42 Resp: 165

Ion Ratio Lower Upper

42 100

72 0.0 39.0 58.4#

71 0.0 35.7 53.5#



#31

Cyclohexane

Concen: 1.894 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.011 min

Lab File: VD073933.D

Acq: 02 Aug 2022 18:29

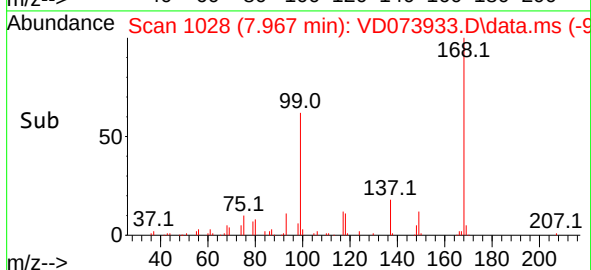
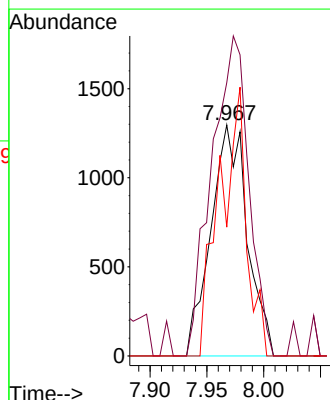
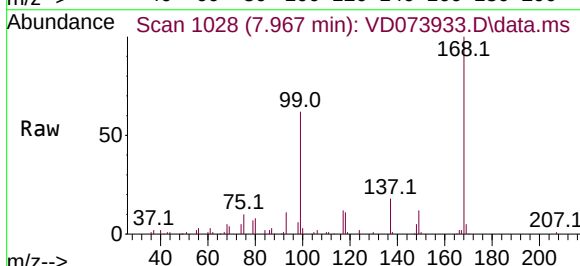
Tgt Ion: 56 Resp: 2899

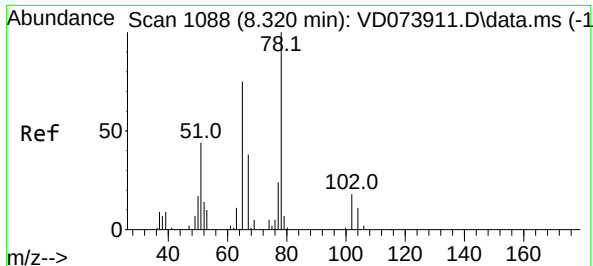
Ion Ratio Lower Upper

56 100

69 118.3 29.2 43.8#

84 55.7 80.0 120.0#





#33

1,2-Dichloroethane-d4

Concen: 92.073 ug/l

RT: 8.320 min Scan# 1088

Delta R.T. 0.000 min

Lab File: VD073933.D

Acq: 02 Aug 2022 18:29

Instrument :

MSVOA\_D

ClientSampleId :

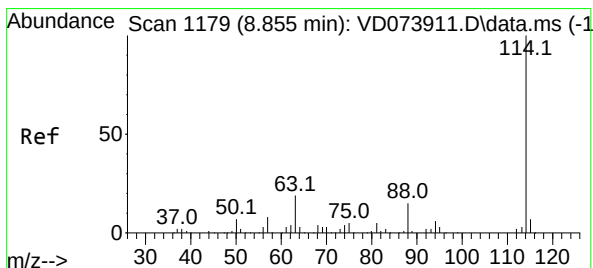
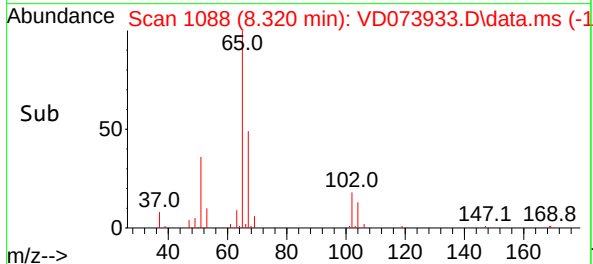
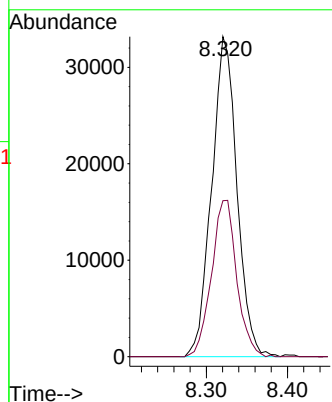
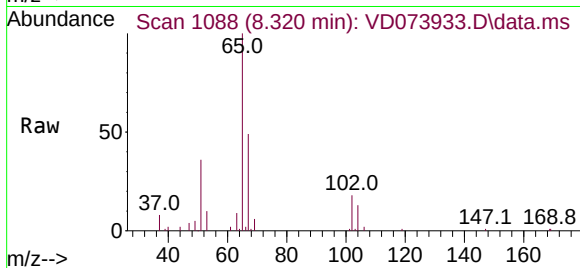
TP3-0729

Tgt Ion: 65 Resp: 71733

Ion Ratio Lower Upper

65 100

67 48.8 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1179

Delta R.T. 0.000 min

Lab File: VD073933.D

Acq: 02 Aug 2022 18:29

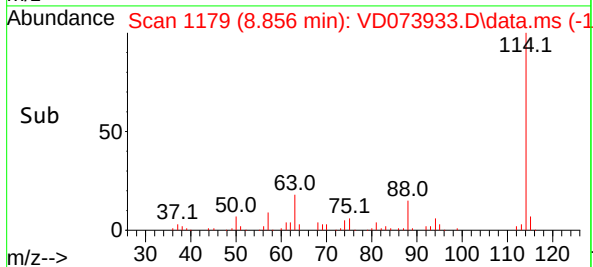
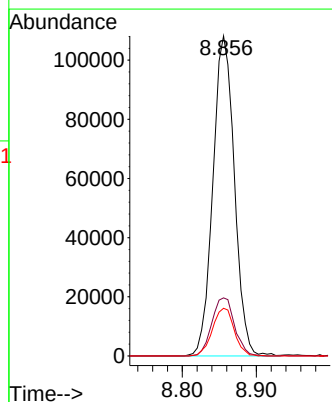
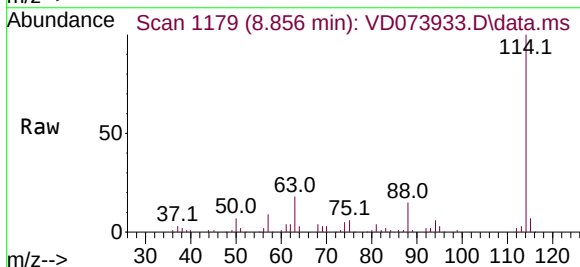
Tgt Ion: 114 Resp: 217987

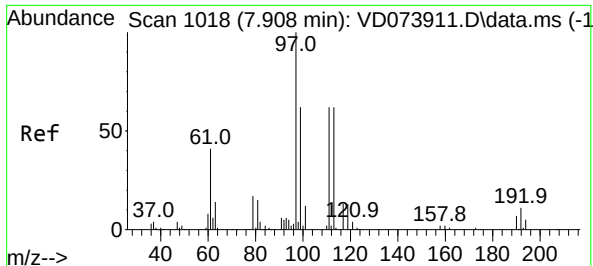
Ion Ratio Lower Upper

114 100

63 18.2 0.0 37.6

88 14.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 60.333 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD073933.D

Acq: 02 Aug 2022 18:29

Instrument :

MSVOA\_D

ClientSampleId :

TP3-0729

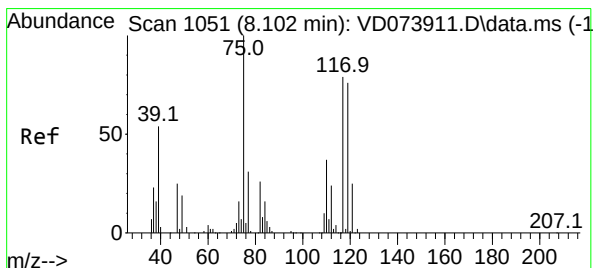
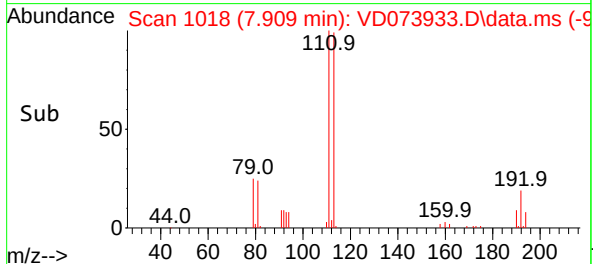
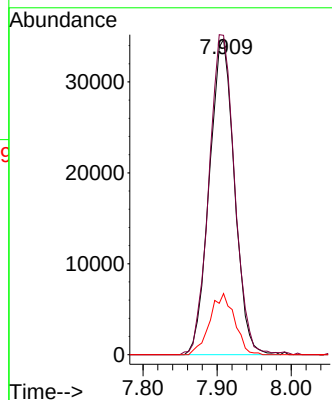
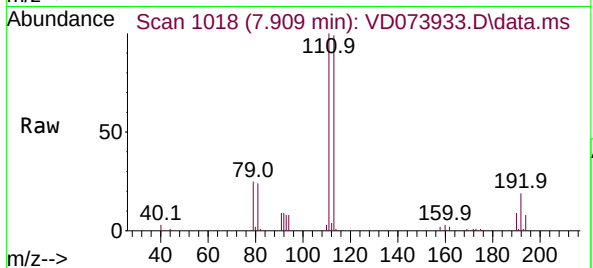
Tgt Ion:113 Resp: 81714

Ion Ratio Lower Upper

113 100

111 103.6 83.7 125.5

192 19.1 15.0 22.6



#36

1,1-Dichloropropene

Concen: 4.673 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.135 min

Lab File: VD073933.D

Acq: 02 Aug 2022 18:29

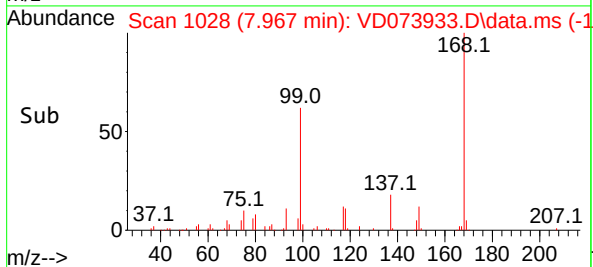
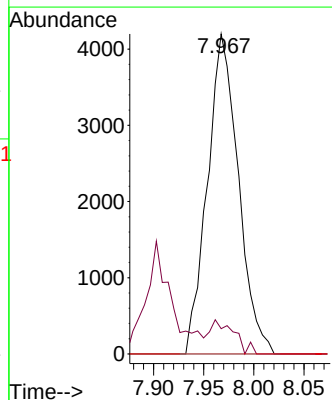
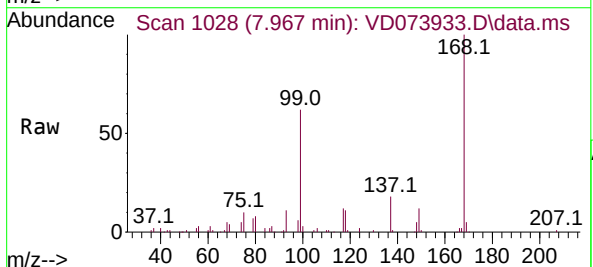
Tgt Ion: 75 Resp: 9014

Ion Ratio Lower Upper

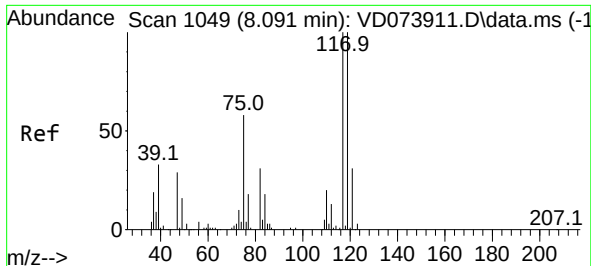
75 100

110 8.5 18.1 54.1#

77 0.0 24.7 37.1#



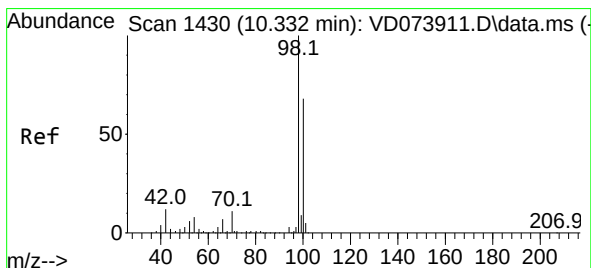
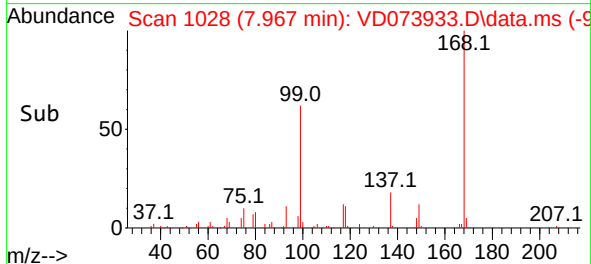
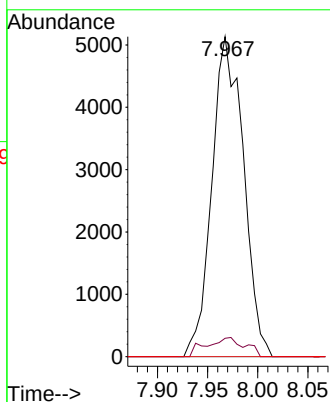
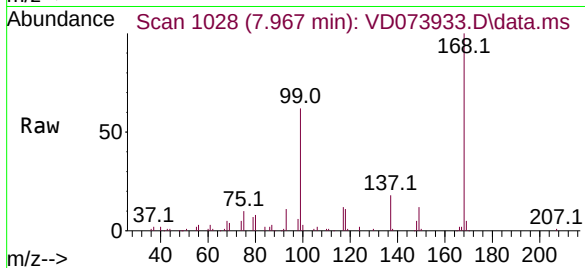




#38  
Carbon Tetrachloride  
Concen: 5.198 ug/l  
RT: 7.967 min Scan# 11233  
Delta R.T. -0.123 min  
Lab File: VD073933.D  
Acq: 02 Aug 2022 18:29

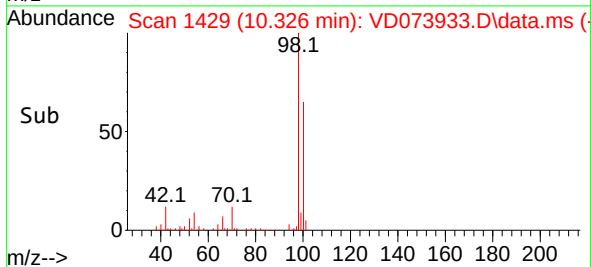
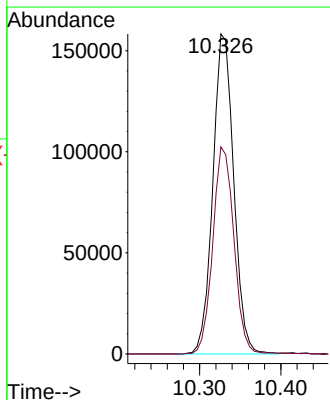
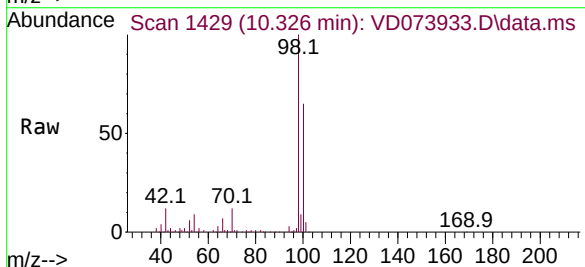
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0729

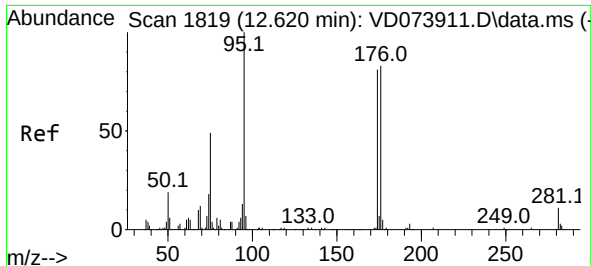
Tgt Ion:117 Resp: 11233  
Ion Ratio Lower Upper  
117 100  
119 5.7 79.6 119.4#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 62.110 ug/l  
RT: 10.326 min Scan# 1429  
Delta R.T. -0.006 min  
Lab File: VD073933.D  
Acq: 02 Aug 2022 18:29

Tgt Ion: 98 Resp: 283361  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.1 79.7

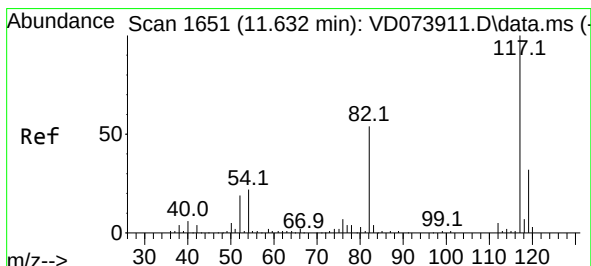
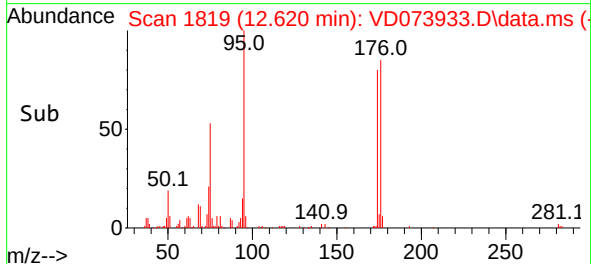
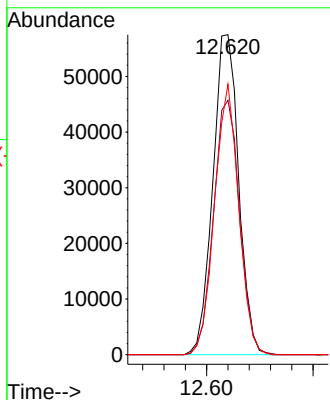
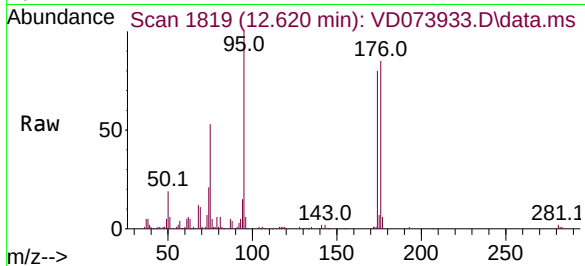




#62  
4-Bromofluorobenzene  
Concen: 57.639 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: VD073933.D  
Acq: 02 Aug 2022 18:29

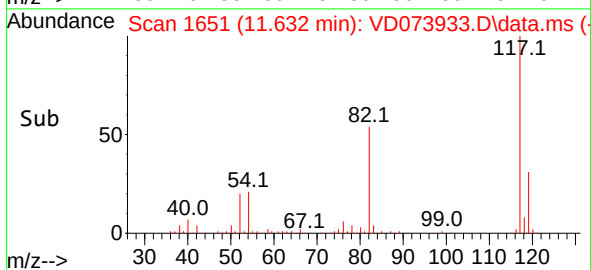
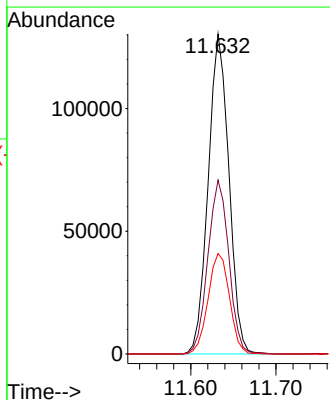
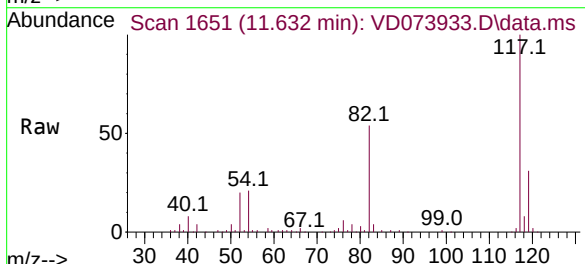
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0729

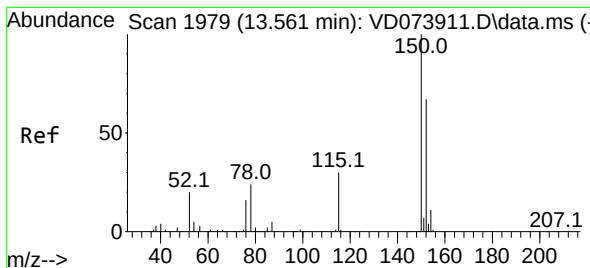
Tgt Ion: 95 Resp: 96703  
Ion Ratio Lower Upper  
95 100  
174 80.3 0.0 164.2  
176 78.9 0.0 161.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1651  
Delta R.T. 0.000 min  
Lab File: VD073933.D  
Acq: 02 Aug 2022 18:29

Tgt Ion: 117 Resp: 220535  
Ion Ratio Lower Upper  
117 100  
82 54.3 43.3 64.9  
119 31.4 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.555 min Scan# 1979

Delta R.T. -0.006 min

Lab File: VD073933.D

Acq: 02 Aug 2022 18:29

Instrument :

MSVOA\_D

ClientSampleId :

TP3-0729

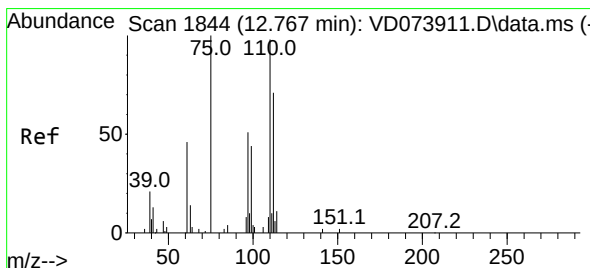
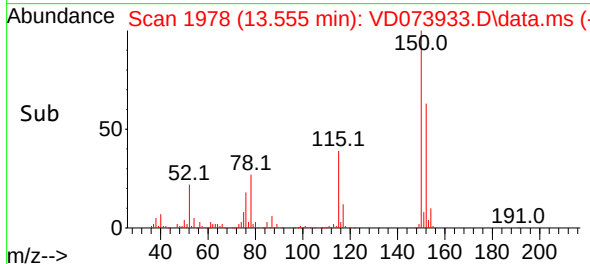
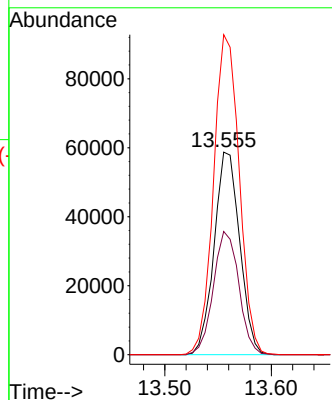
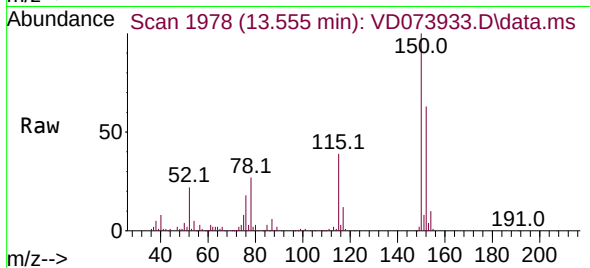
Tgt Ion:152 Resp: 97833

Ion Ratio Lower Upper

152 100

115 60.7 29.1 87.3

150 158.7 0.0 338.2



#76

1,2,3-Trichloropropane

Concen: 72.065 ug/l

RT: 12.614 min Scan# 1818

Delta R.T. -0.153 min

Lab File: VD073933.D

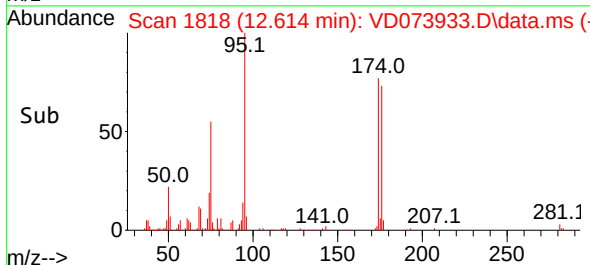
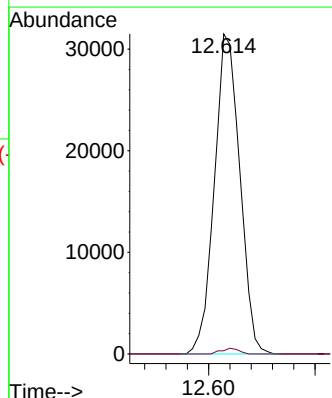
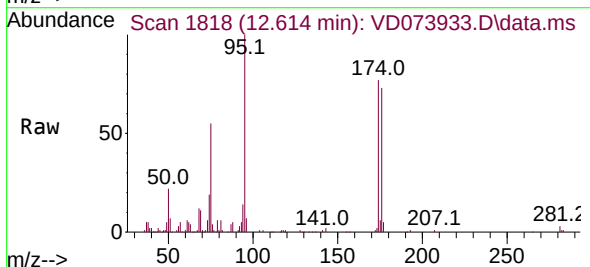
Acq: 02 Aug 2022 18:29

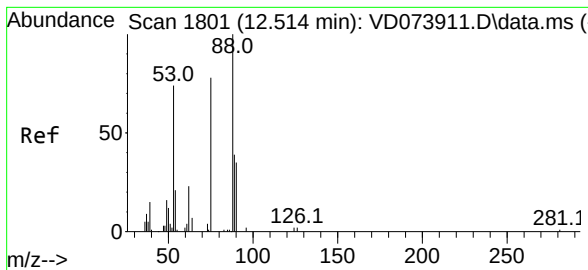
Tgt Ion: 75 Resp: 52204

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 153.089 ug/l  
 RT: 12.614 min Scan# 1801  
 Delta R.T. 0.100 min  
 Lab File: VD073933.D  
 Acq: 02 Aug 2022 18:29

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP3-0729

Tgt Ion: 75 Resp: 52204  
 Ion Ratio Lower Upper  
 75 100  
 53 0.5 71.6 107.4#  
 89 0.0 39.8 59.6#

