

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032422\  
 Data File : VD072411.D  
 Acq On : 24 Mar 2022 16:50  
 Operator : VA/SY  
 Sample : N2091-01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MHB

Quant Time: Mar 25 02:56:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 14 05:18:06 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 365940   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 619993   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 701428   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 355029   | 50.000 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |          |
|---------------------------|--------|-------|----------|----------|------|----------|
| 33) 1,2-Dichloroethane-d4 | 8.326  | 65    | 174713   | 42.841   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 85.680%  |
| 35) Dibromofluoromethane  | 7.908  | 113   | 191120   | 43.805   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 87.620%  |
| 50) Toluene-d8            | 10.338 | 98    | 783159   | 49.091   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 98.180%  |
| 62) 4-Bromofluorobenzene  | 12.626 | 95    | 340510   | 54.933   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 109.860% |

## Target Compounds

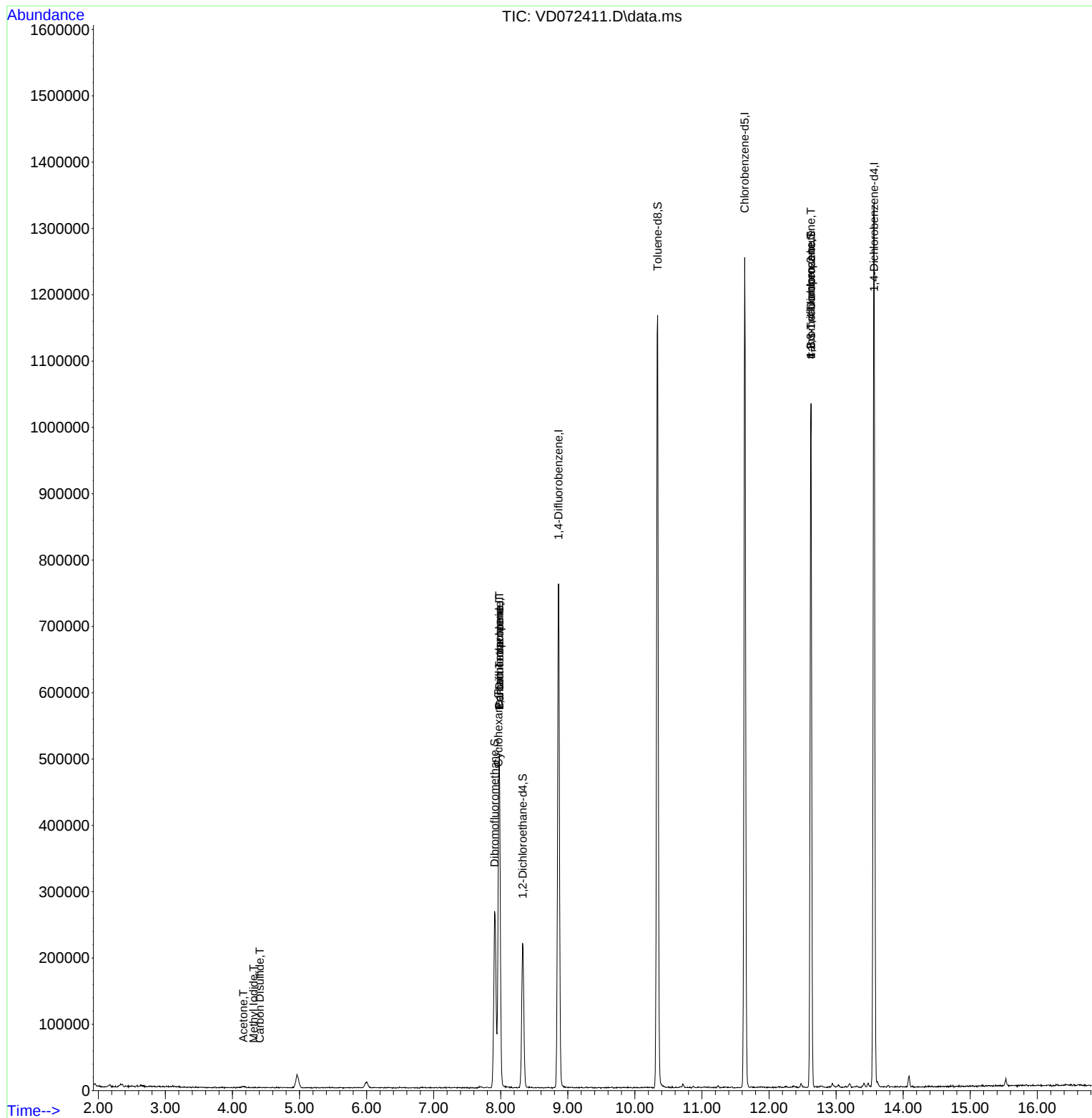
|                               |        |     |        |           | Qvalue |     |
|-------------------------------|--------|-----|--------|-----------|--------|-----|
| 10) Methyl Iodide             | 4.315  | 142 | 485    | 2.351     | ug/l # | 68  |
| 16) Acetone                   | 4.162  | 43  | 4131   | 4.665     | ug/l # | 75  |
| 17) Carbon Disulfide          | 4.409  | 76  | 1497   | 1.686     | ug/l # | 74  |
| 20) Methylene Chloride        | 4.962  | 84  | 13859  | Below Cal | #      | 90  |
| 31) Cyclohexane               | 7.967  | 56  | 9209   | 1.445     | ug/l # | 14  |
| 36) 1,1-Dichloropropene       | 7.979  | 75  | 31431  | 5.135     | ug/l # | 51  |
| 38) Carbon Tetrachloride      | 7.979  | 117 | 38885  | 5.589     | ug/l # | 17  |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75  | 176846 | 45.157    | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75  | 176846 | 112.038   | ug/l # | 7   |

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

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Sample : N2091-01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
MHB

Quant Time: Mar 25 02:56:25 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 14 05:18:06 2022  
Response via : Initial Calibration

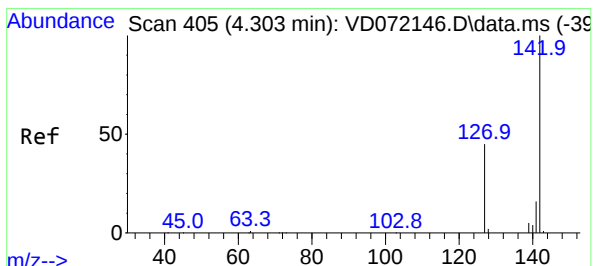
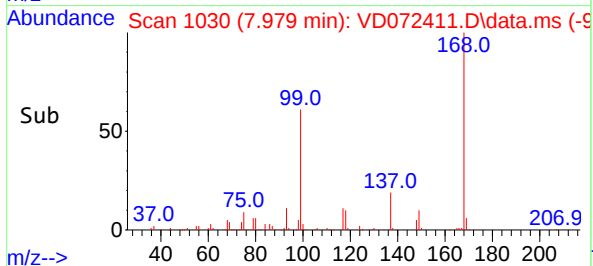
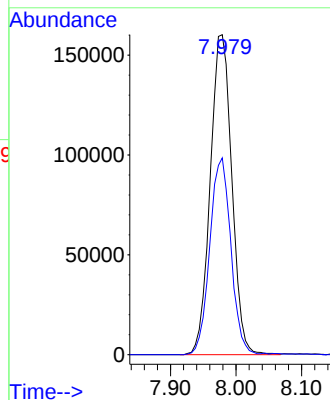
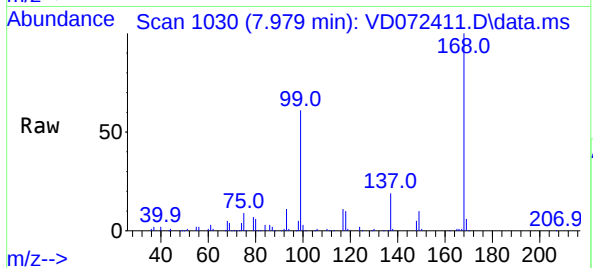




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

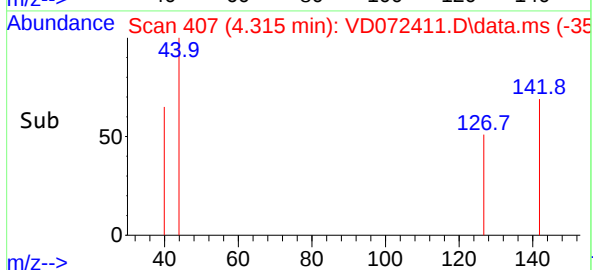
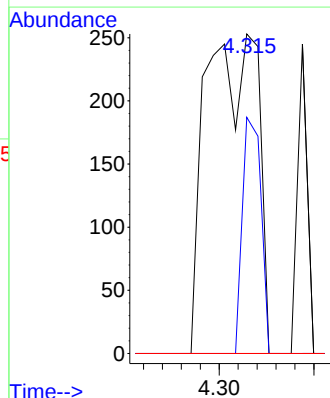
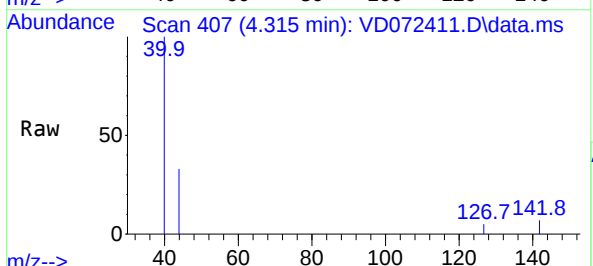
Instrument :  
MSVOA\_D  
ClientSampleId :  
MHB

Tgt Ion:168 Resp: 365940  
Ion Ratio Lower Upper  
168 100  
99 61.5 49.8 74.6



#10  
Methyl Iodide  
Concen: 2.351 ug/l  
RT: 4.315 min Scan# 407  
Delta R.T. 0.012 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

Tgt Ion:142 Resp: 485  
Ion Ratio Lower Upper  
142 100  
127 26.2 37.3 55.9#  
141 0.0 11.7 17.5#

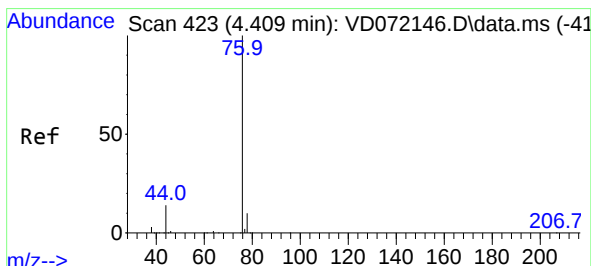
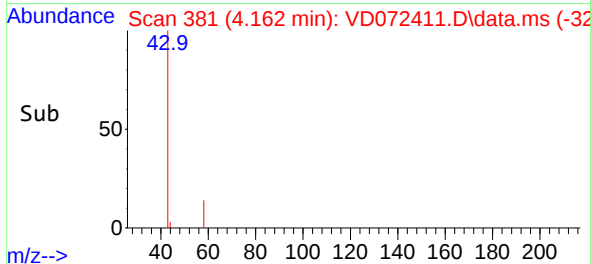
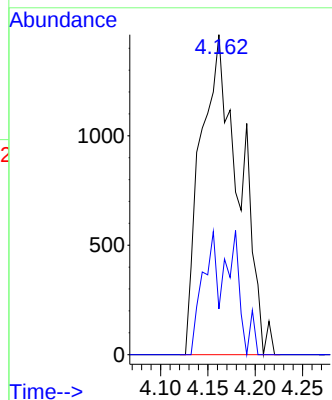
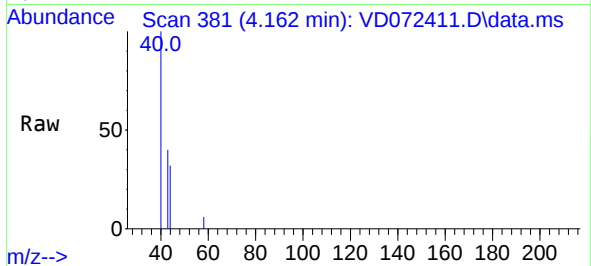




#16  
Acetone  
Concen: 4.665 ug/l  
RT: 4.162 min Scan# 381  
Delta R.T. 0.006 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

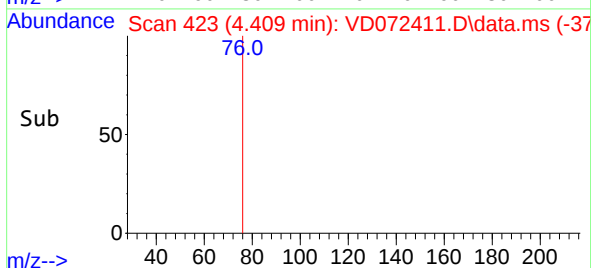
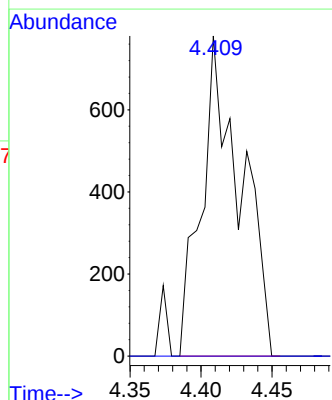
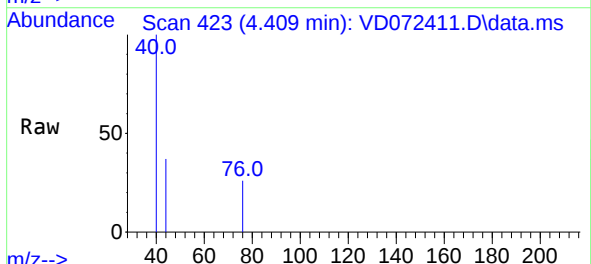
Instrument :  
MSVOA\_D  
ClientSampleId :  
MHB

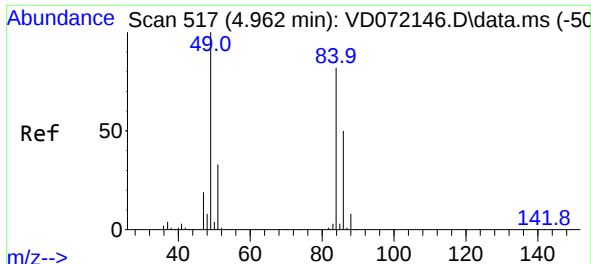
Tgt Ion: 43 Resp: 4131  
Ion Ratio Lower Upper  
43 100  
58 14.3 22.1 33.1#



#17  
Carbon Disulfide  
Concen: 1.686 ug/l  
RT: 4.409 min Scan# 423  
Delta R.T. -0.000 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

Tgt Ion: 76 Resp: 1497  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#



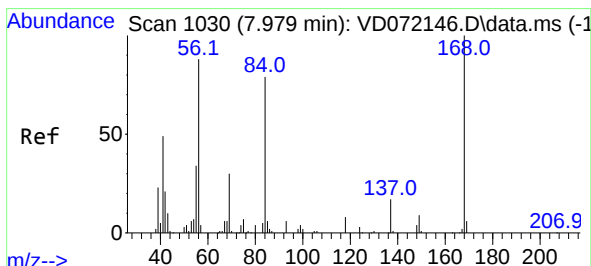
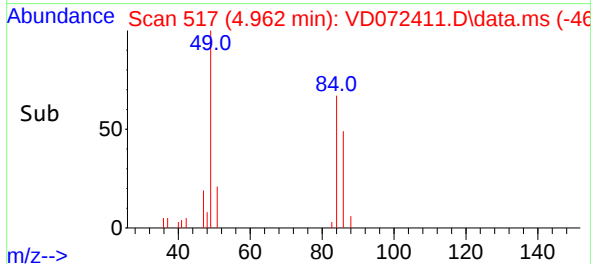
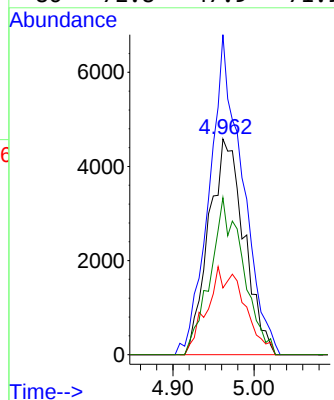
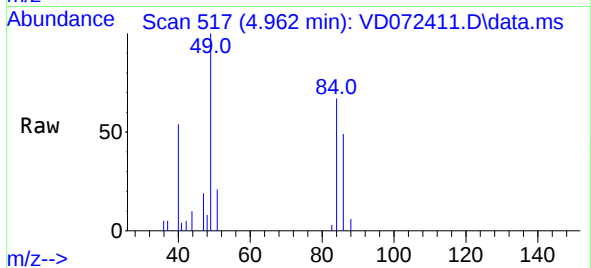


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.962 min Scan# 517  
Delta R.T. -0.000 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

Instrument :  
MSVOA\_D  
ClientSampleId :  
MHB

Tgt Ion: 84 Resp: 13859

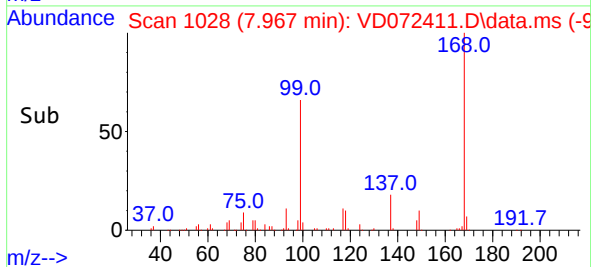
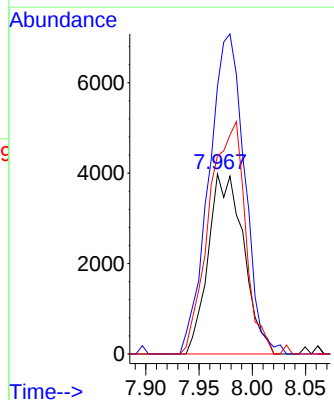
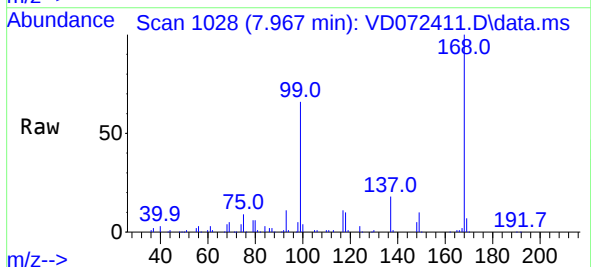
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 148.4 | 112.8 | 169.2 |
| 51  | 31.0  | 32.6  | 48.8# |
| 86  | 72.8  | 47.9  | 71.9# |

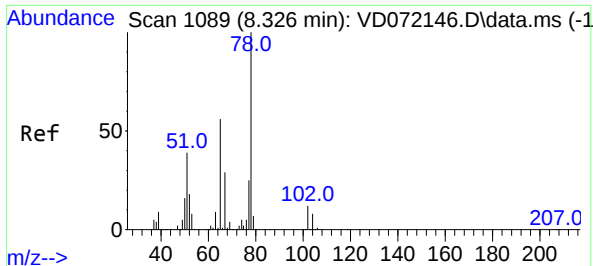


#31  
Cyclohexane  
Concen: 1.445 ug/l  
RT: 7.967 min Scan# 1028  
Delta R.T. -0.012 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

Tgt Ion: 56 Resp: 9209

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 148.8 | 25.4  | 38.2# |
| 84  | 110.1 | 63.0  | 94.4# |





#33

1,2-Dichloroethane-d4

Concen: 42.841 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD072411.D

Acq: 24 Mar 2022 16:50

Instrument :

MSVOA\_D

ClientSampleId :

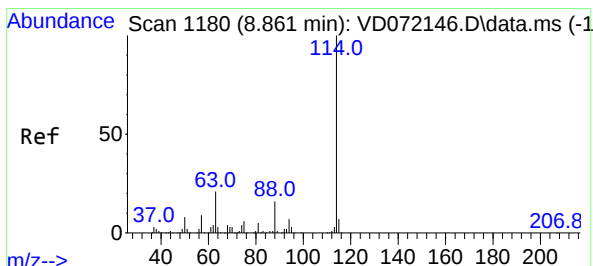
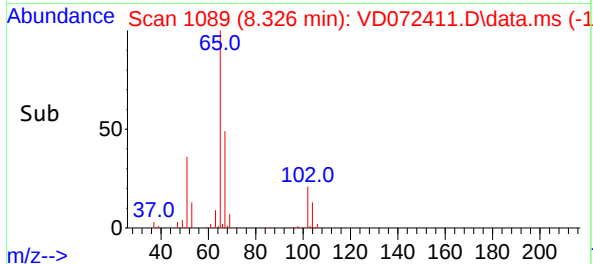
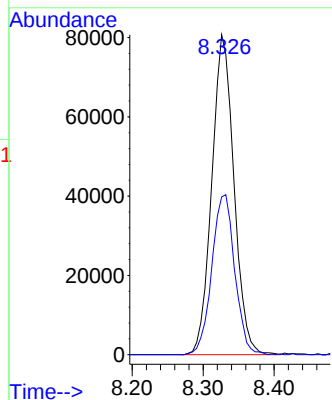
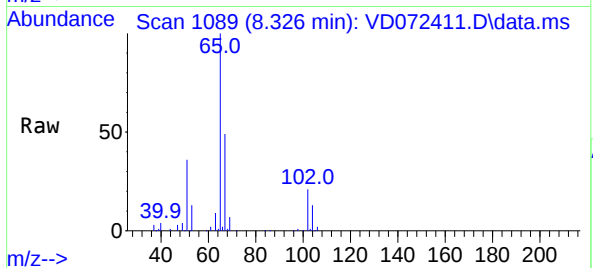
MHB

Tgt Ion: 65 Resp: 174713

Ion Ratio Lower Upper

65 100

67 51.7 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: VD072411.D

Acq: 24 Mar 2022 16:50

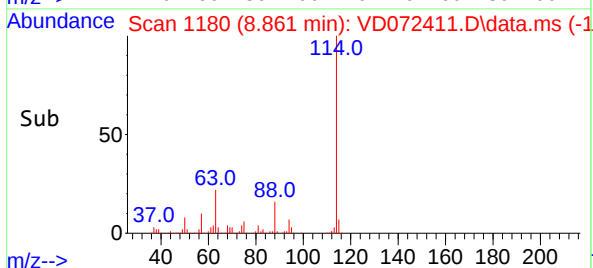
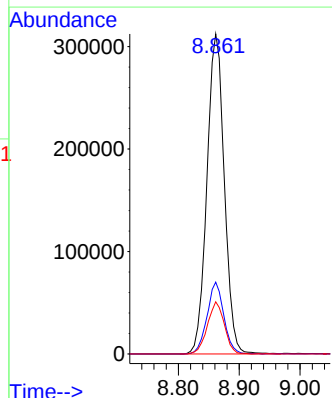
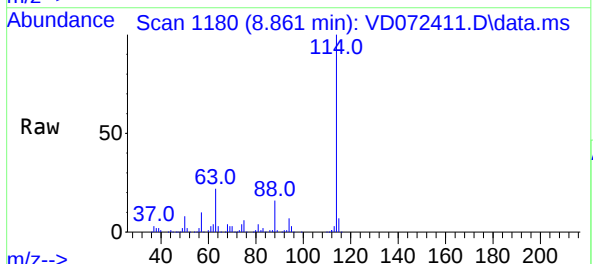
Tgt Ion: 114 Resp: 619993

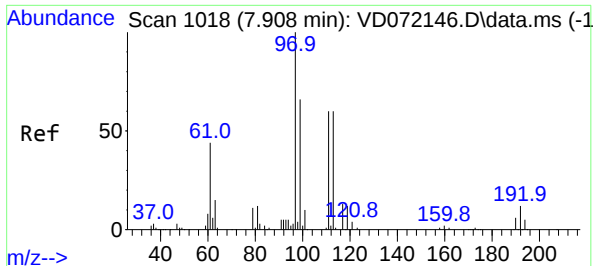
Ion Ratio Lower Upper

114 100

63 22.5 0.0 46.6

88 16.3 0.0 33.2

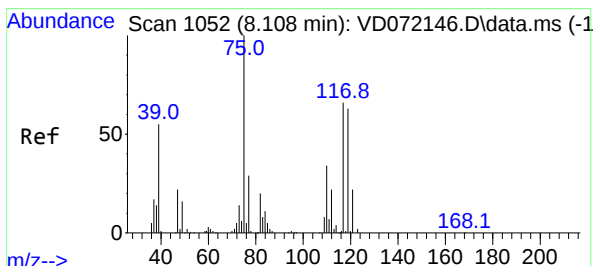
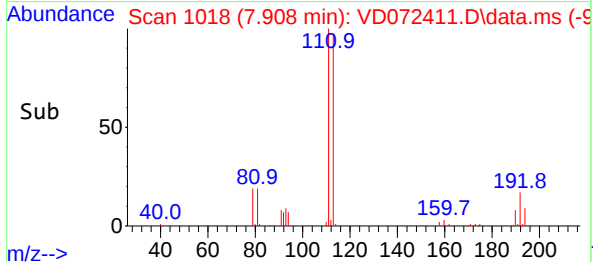
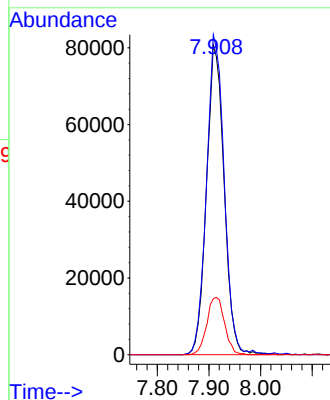
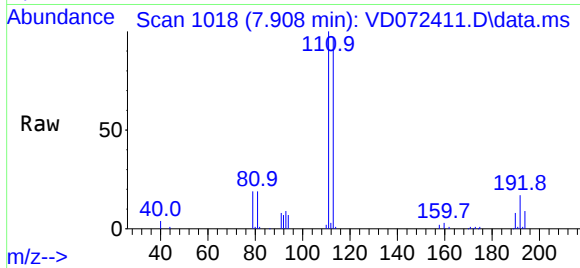




#35  
Dibromofluoromethane  
Concen: 43.805 ug/l  
RT: 7.908 min Scan# 1018  
Delta R.T. -0.000 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

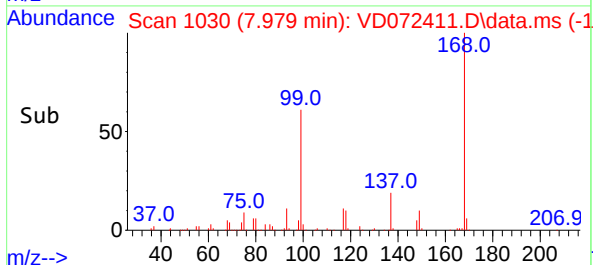
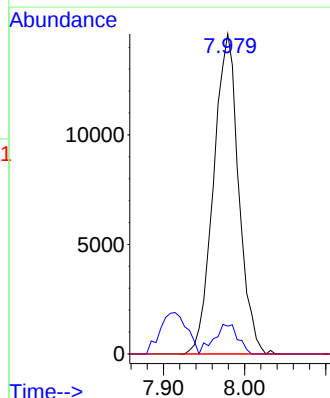
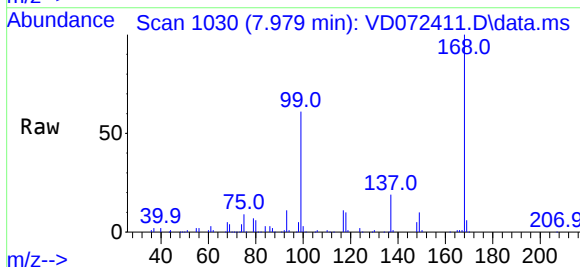
Instrument :  
MSVOA\_D  
ClientSampleId :  
MHB

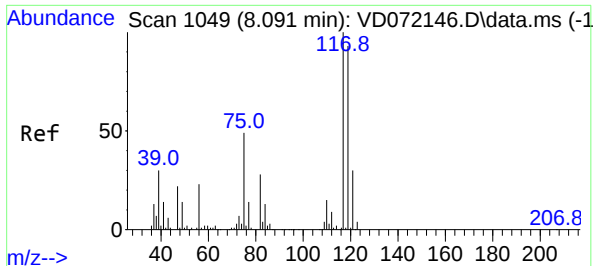
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Ion Ratio Lower Upper  
113 100  
111 103.8 83.8 125.6  
192 18.6 14.6 21.8



#36  
1,1-Dichloropropene  
Concen: 5.135 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.129 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

Tgt Ion: 75 Resp: 31431  
Ion Ratio Lower Upper  
75 100  
110 8.7 16.4 49.1#  
77 0.0 24.2 36.2#

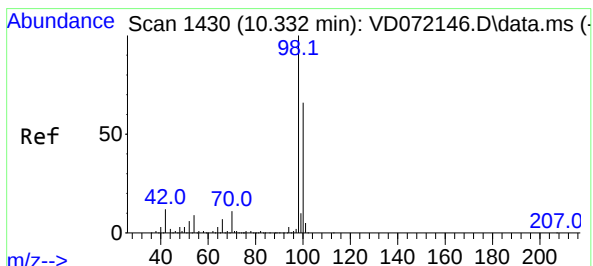
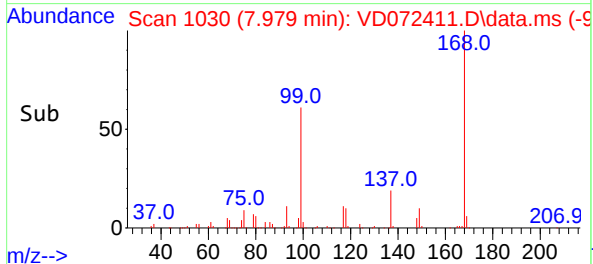
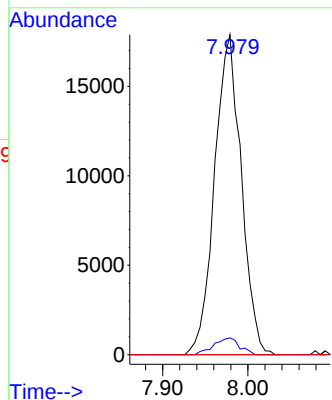
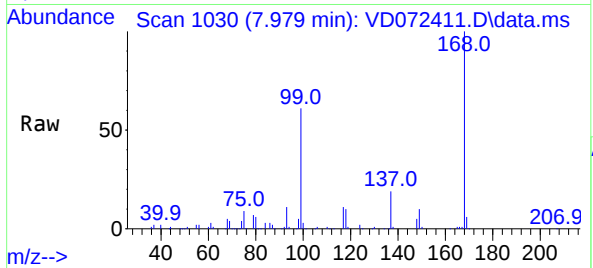




#38  
Carbon Tetrachloride  
Concen: 5.589 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. -0.112 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

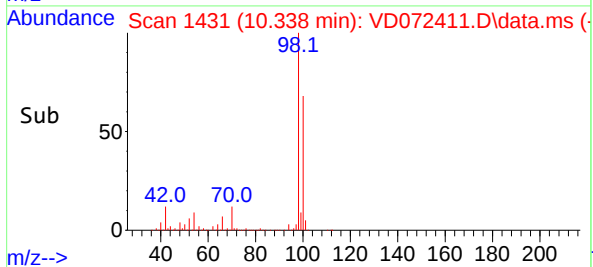
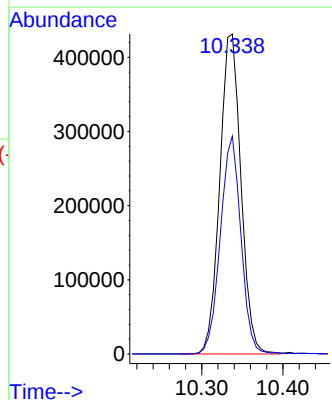
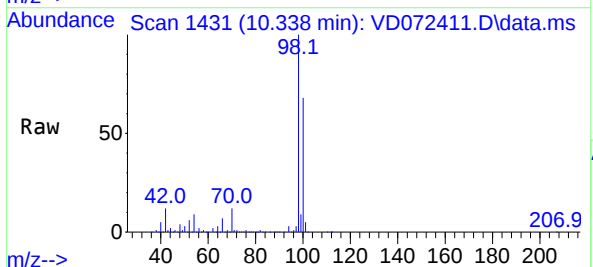
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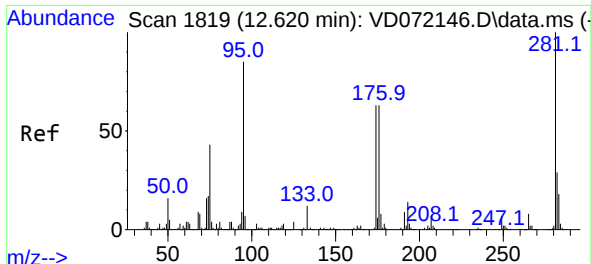
Tgt Ion:117 Resp: 38885  
Ion Ratio Lower Upper  
117 100  
119 5.2 75.8 113.6#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 49.091 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

Tgt Ion: 98 Resp: 783159  
Ion Ratio Lower Upper  
98 100  
100 66.1 52.4 78.6

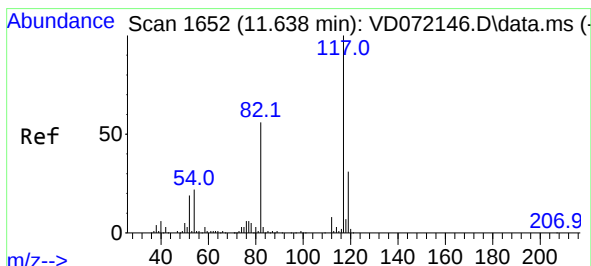
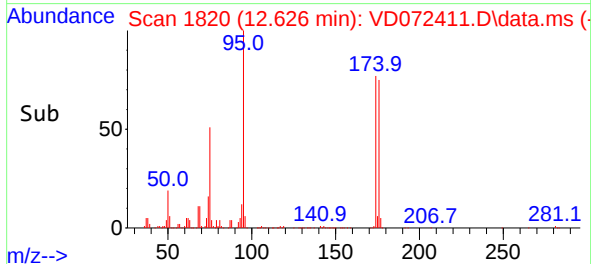
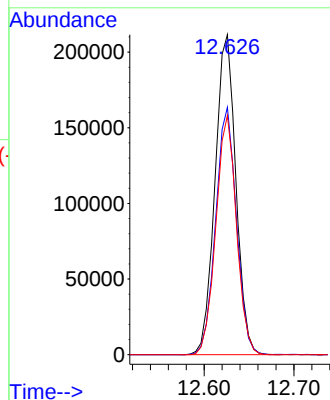
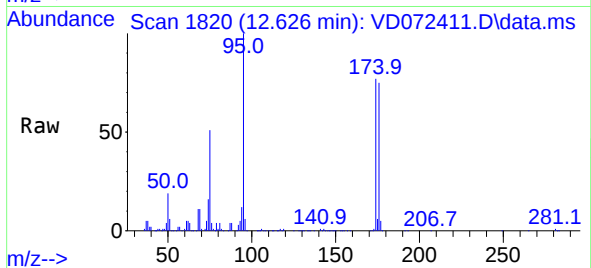




#62  
4-Bromofluorobenzene  
Concen: 54.933 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.006 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

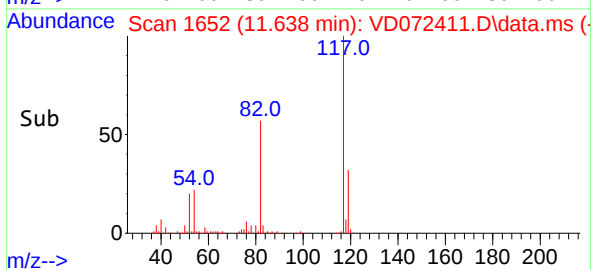
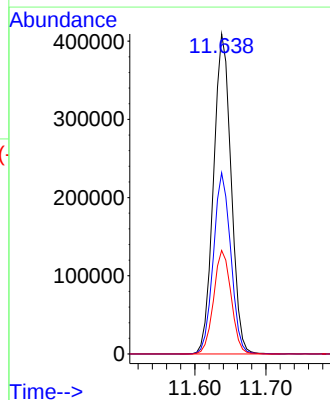
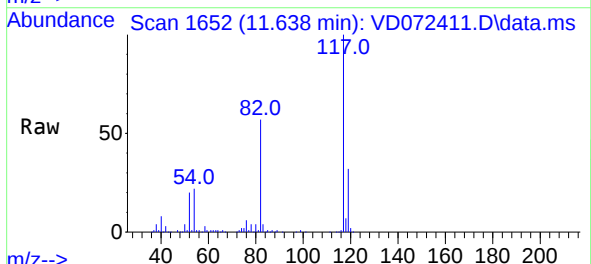
Instrument :  
MSVOA\_D  
ClientSampleId :  
MHB

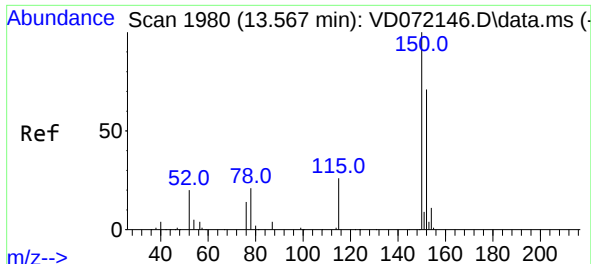
Tgt Ion: 95 Resp: 340510  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 152.8  
176 73.7 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

Tgt Ion: 117 Resp: 701428  
Ion Ratio Lower Upper  
117 100  
82 56.6 45.3 67.9  
119 32.4 26.6 40.0

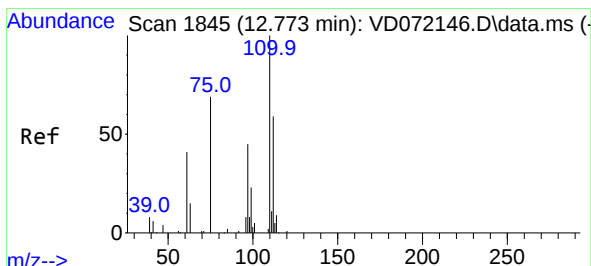
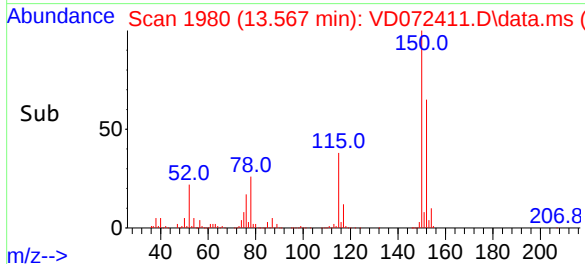
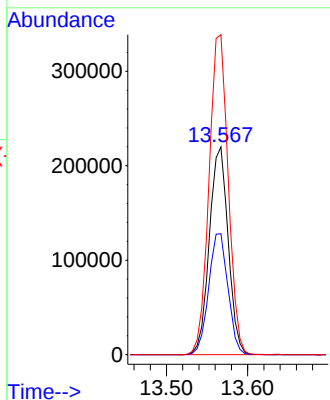
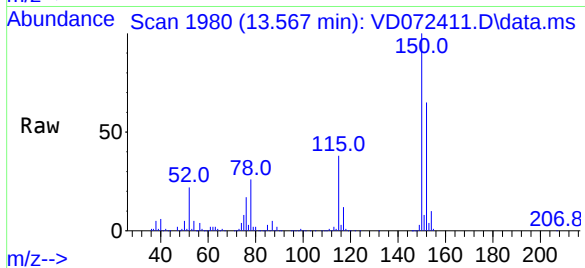




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. 0.000 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

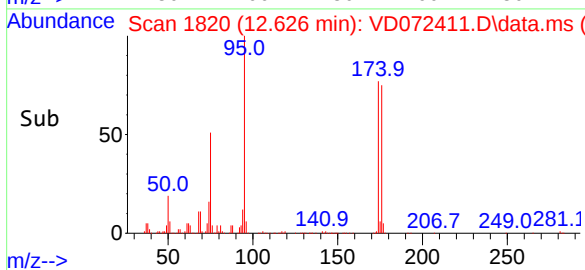
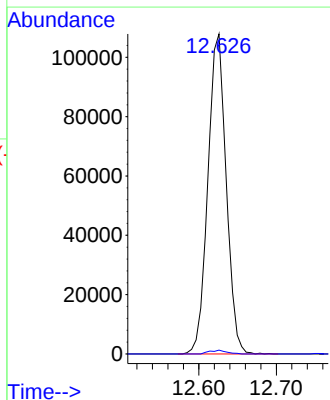
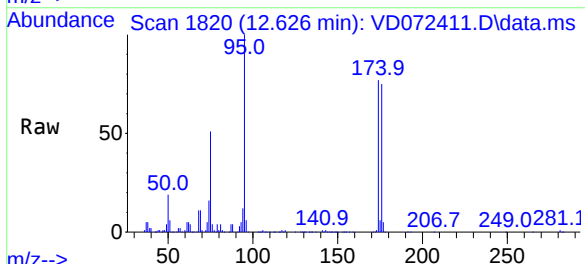
Instrument :  
MSVOA\_D  
ClientSampleId :  
MHB

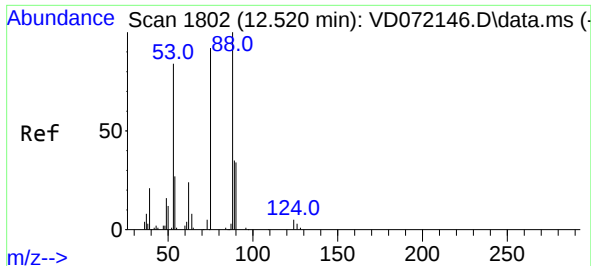
Tgt Ion:152 Resp: 355029  
Ion Ratio Lower Upper  
152 100  
115 59.6 31.3 93.8  
150 156.4 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 45.157 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

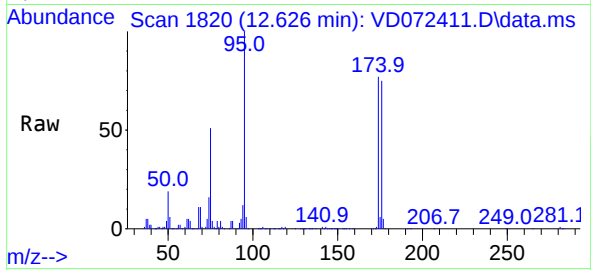
Tgt Ion: 75 Resp: 176846  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 112.038 ug/l  
RT: 12.626 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VD072411.D  
Acq: 24 Mar 2022 16:50

Instrument :  
MSVOA\_D  
ClientSampleId :  
MHB



Tgt Ion: 75 Resp: 176846  
Ion Ratio Lower Upper  
75 100  
53 0.1 86.5 129.7#  
89 0.0 33.9 50.9#

