

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032222\  
 Data File : VD072361.D  
 Acq On : 22 Mar 2022 14:10  
 Operator : VA/SY  
 Sample : N1968-03  
 Misc : 5.09G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 G-2-4-5-6

Quant Time: Mar 23 01:12:20 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

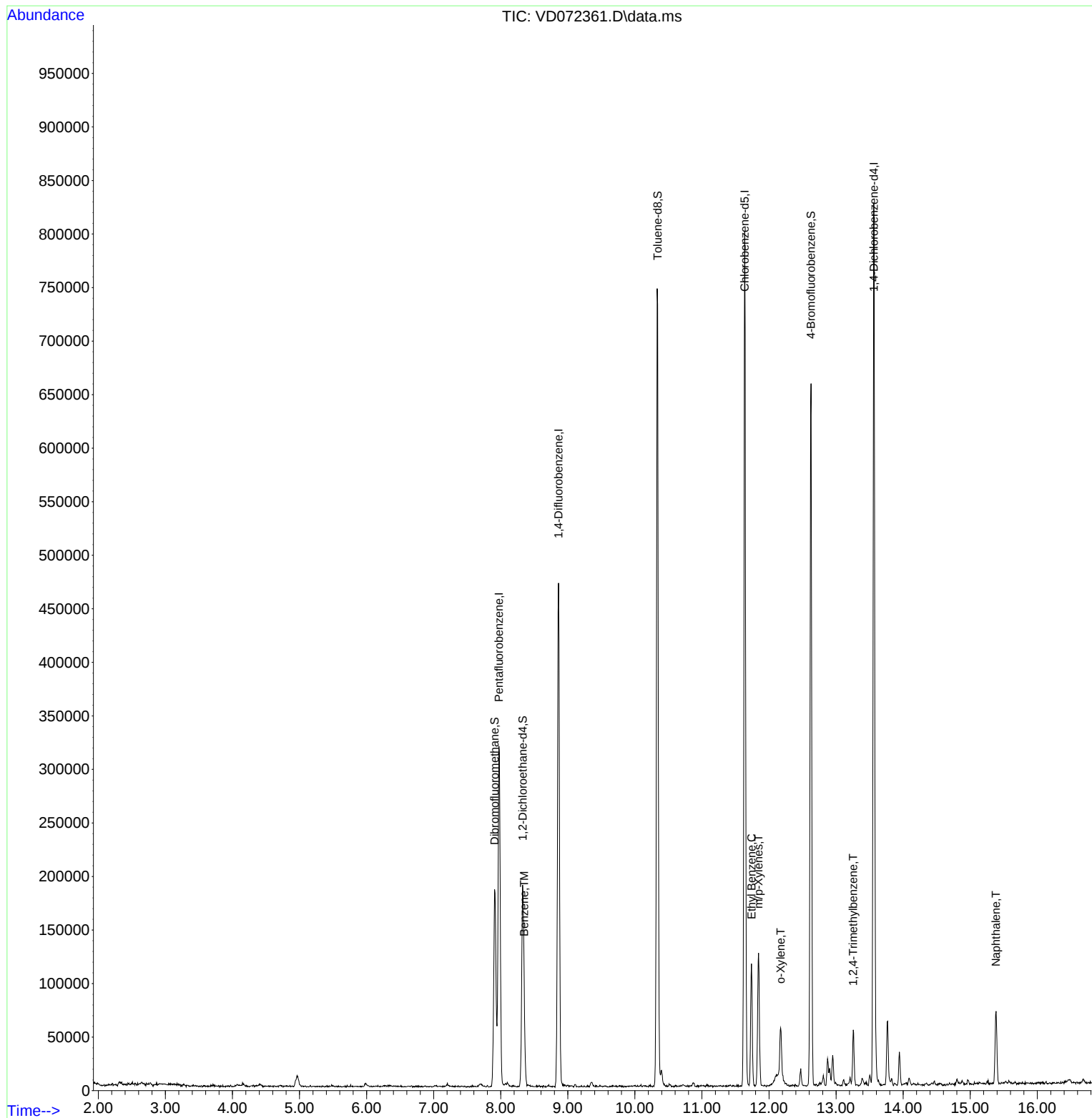
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.973  | 168   | 227689   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.861  | 114   | 393577   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.638 | 117   | 444668   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.561 | 152   | 213269   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.326  | 65    | 137142   | 54.047   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 108.100% |          |
| 35) Dibromofluoromethane    | 7.909  | 113   | 132140   | 47.710   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 95.420%  |          |
| 50) Toluene-d8              | 10.338 | 98    | 499804   | 49.353   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | = 98.700%  |          |
| 62) 4-Bromofluorobenzene    | 12.626 | 95    | 220838   | 56.122   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | = 112.240% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          | Qvalue     |          |
| 40) Benzene                 | 8.350  | 78    | 40423    | 3.647    | ug/l       | 92       |
| 67) Ethyl Benzene           | 11.738 | 91    | 79114    | 4.493    | ug/l       | 97       |
| 68) m/p-Xylenes             | 11.844 | 106   | 36977    | 5.531    | ug/l       | 98       |
| 69) o-Xylene                | 12.173 | 106   | 12765    | 1.996    | ug/l       | 93       |
| 84) 1,2,4-Trimethylbenzene  | 13.255 | 105   | 27788    | 1.942    | ug/l       | 99       |
| 95) Naphthalene             | 15.385 | 128   | 59163    | 7.458    | ug/l       | 98       |
| -----                       |        |       |          |          |            |          |

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

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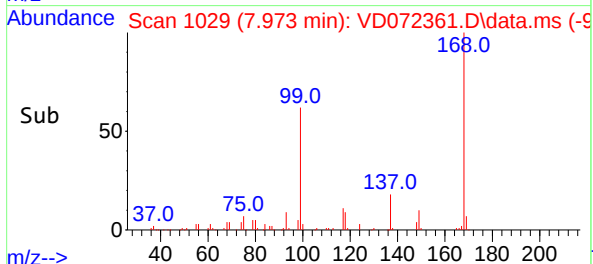
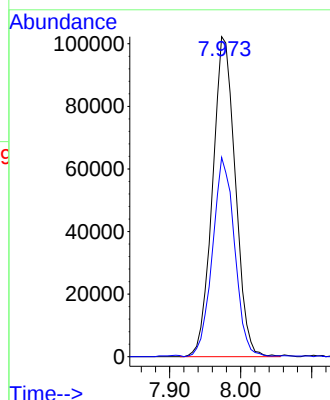
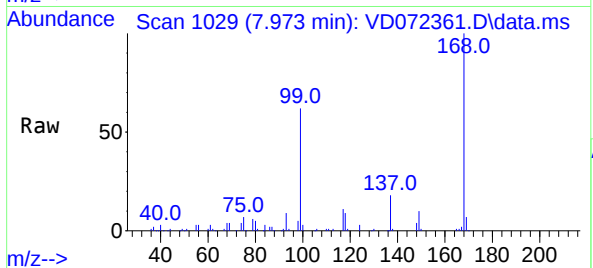




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. 0.000 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

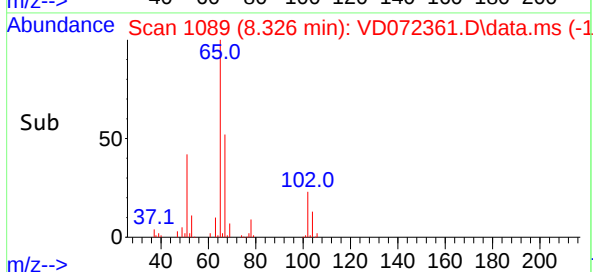
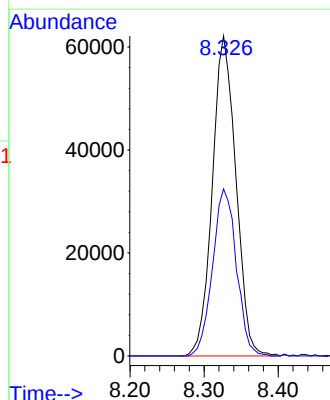
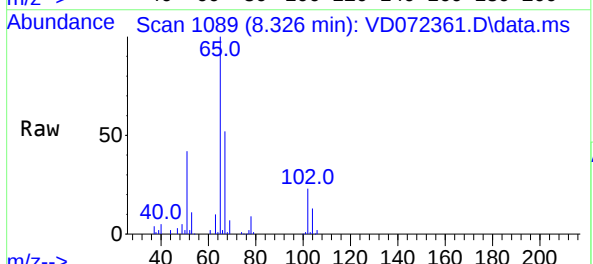
Instrument :  
MSVOA\_D  
ClientSampleId :  
G-2-4-5-6

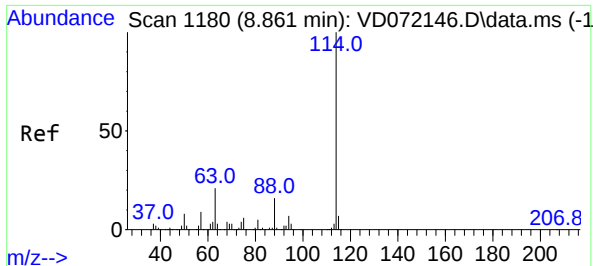
Tgt Ion:168 Resp: 227689  
Ion Ratio Lower Upper  
168 100  
99 62.0 49.8 74.6



#33  
1,2-Dichloroethane-d4  
Concen: 54.047 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. 0.000 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

Tgt Ion: 65 Resp: 137142  
Ion Ratio Lower Upper  
65 100  
67 52.8 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: VD072361.D

Acq: 22 Mar 2022 14:10

Instrument :

MSVOA\_D

ClientSampleId :

G-2-4-5-6

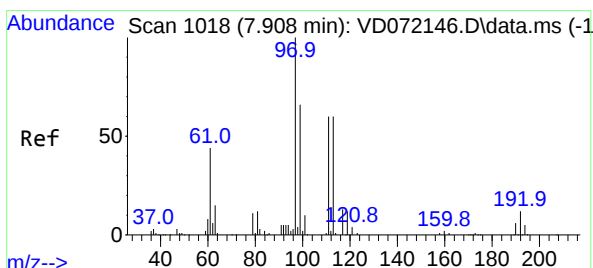
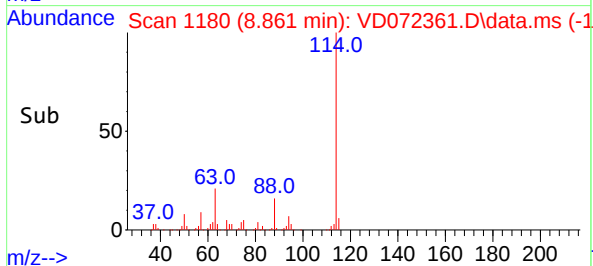
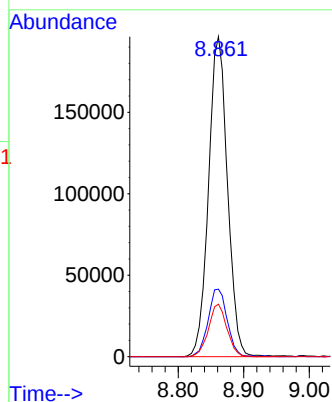
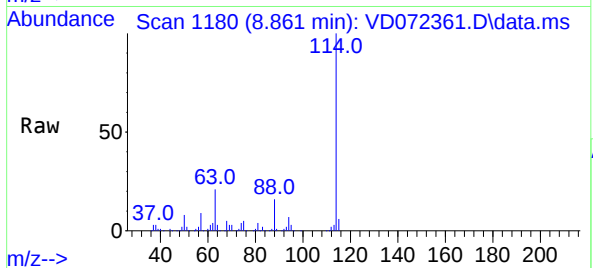
Tgt Ion:114 Resp: 393577

Ion Ratio Lower Upper

114 100

63 21.1 0.0 46.6

88 16.4 0.0 33.2



#35

Dibromofluoromethane

Concen: 47.710 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. 0.000 min

Lab File: VD072361.D

Acq: 22 Mar 2022 14:10

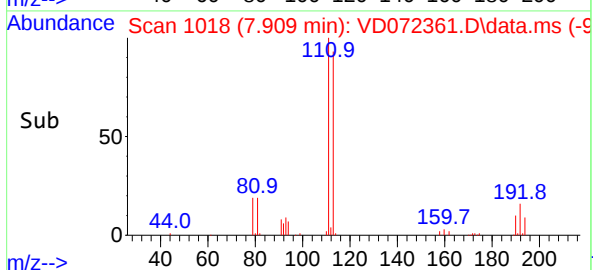
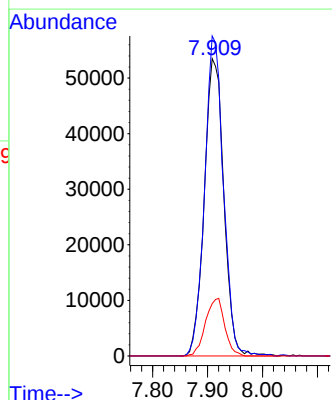
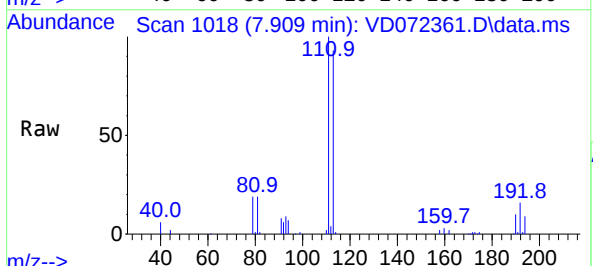
Tgt Ion:113 Resp: 132140

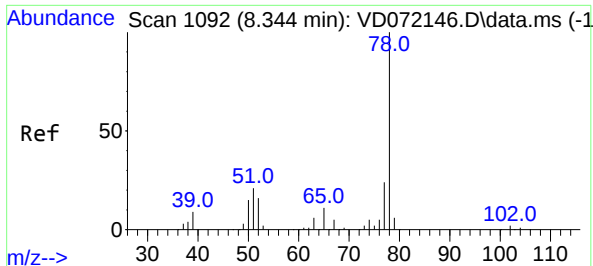
Ion Ratio Lower Upper

113 100

111 103.2 83.8 125.6

192 19.0 14.6 21.8

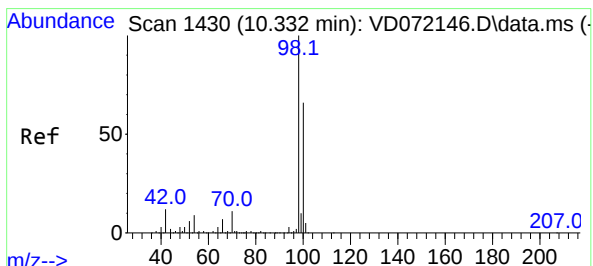
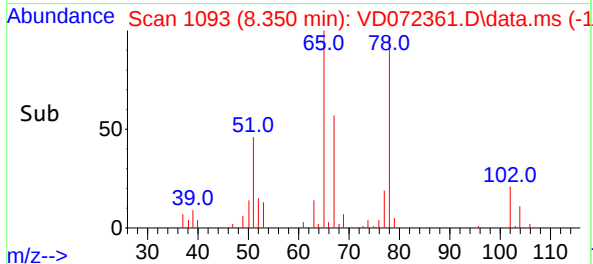
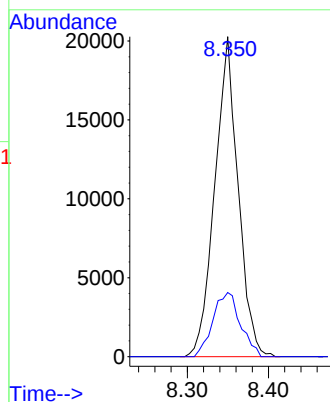
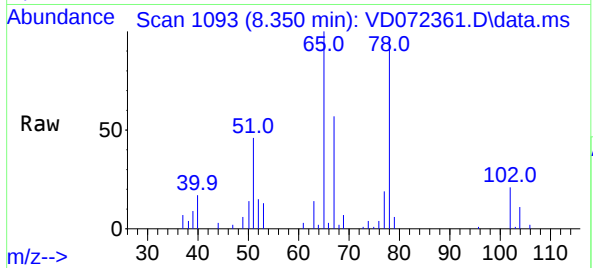




#40  
Benzene  
Concen: 3.647 ug/l  
RT: 8.350 min Scan# 1092  
Delta R.T. 0.006 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

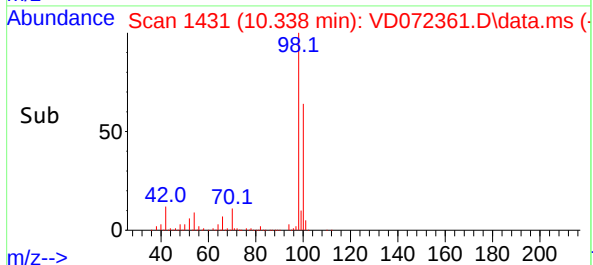
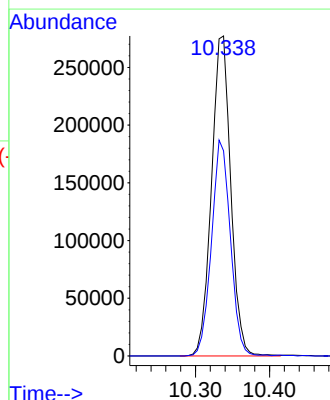
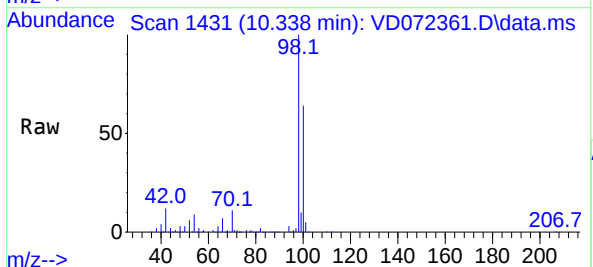
Instrument :  
MSVOA\_D  
ClientSampleId :  
G-2-4-5-6

Tgt Ion: 78 Resp: 40423  
Ion Ratio Lower Upper  
78 100  
77 20.1 19.1 28.7



#50  
Toluene-d8  
Concen: 49.353 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

Tgt Ion: 98 Resp: 499804  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 56.122 ug/l

RT: 12.626 min Scan# 1819

Delta R.T. 0.006 min

Lab File: VD072361.D

Acq: 22 Mar 2022 14:10

Instrument :

MSVOA\_D

ClientSampleId :

G-2-4-5-6

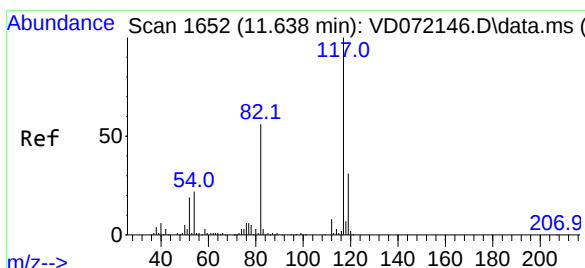
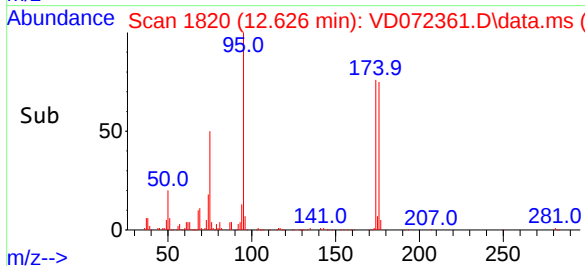
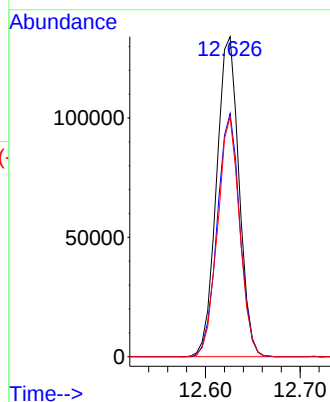
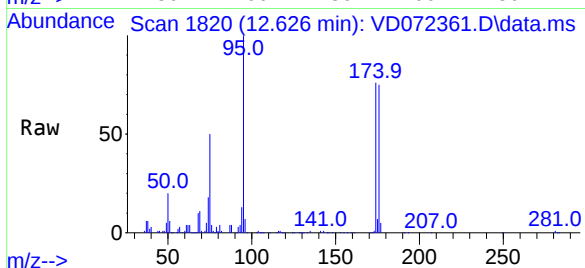
Tgt Ion: 95 Resp: 220838

Ion Ratio Lower Upper

95 100

174 76.3 0.0 152.8

176 73.6 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: VD072361.D

Acq: 22 Mar 2022 14:10

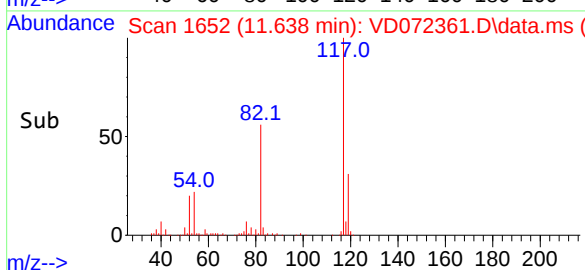
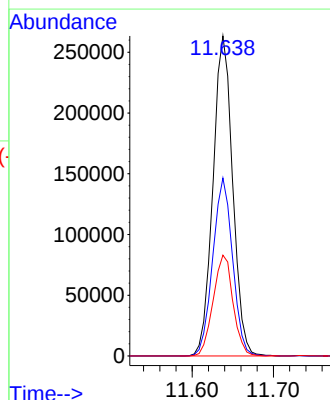
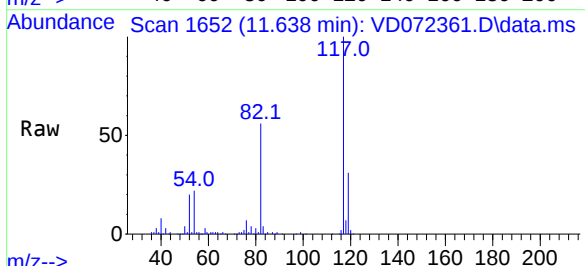
Tgt Ion: 117 Resp: 444668

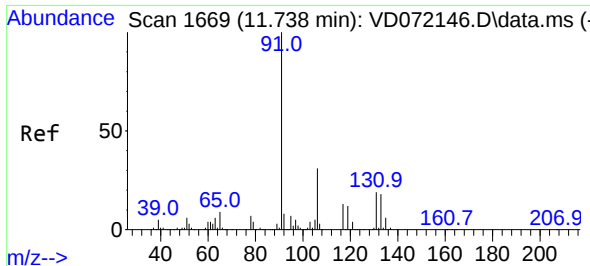
Ion Ratio Lower Upper

117 100

82 55.6 45.3 67.9

119 31.5 26.6 40.0

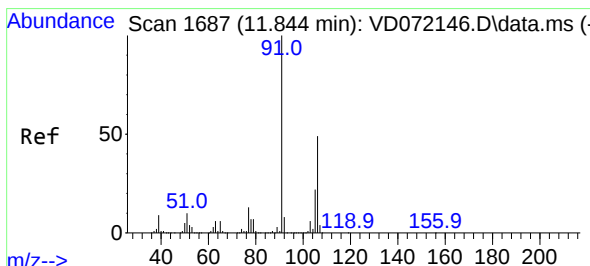
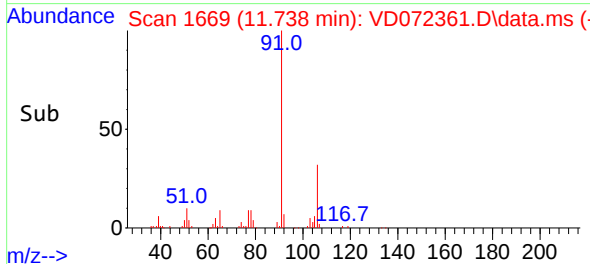
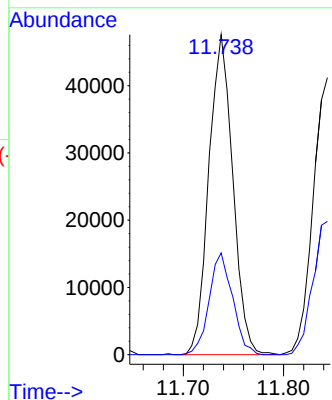
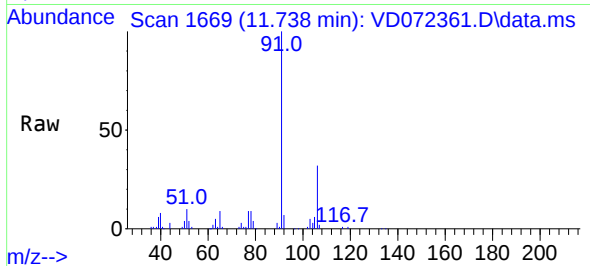




#67  
Ethyl Benzene  
Concen: 4.493 ug/l  
RT: 11.738 min Scan# 1669  
Delta R.T. 0.000 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

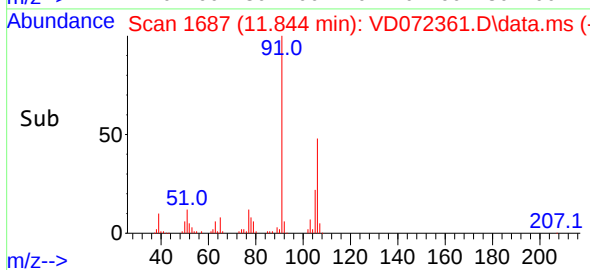
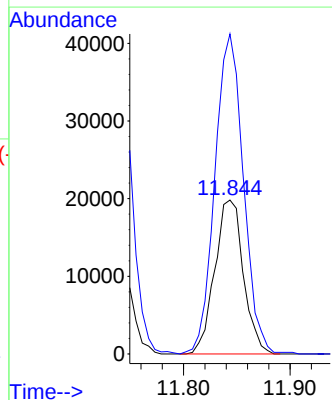
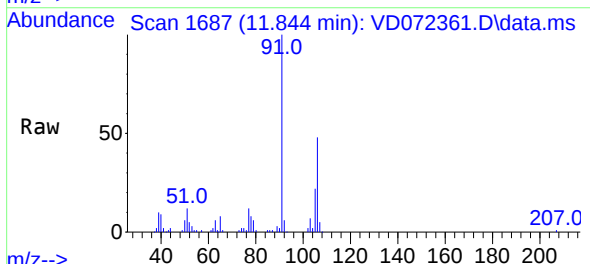
Instrument :  
MSVOA\_D  
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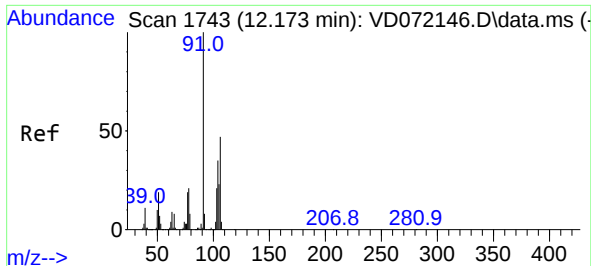
Tgt Ion: 91 Resp: 79114  
Ion Ratio Lower Upper  
91 100  
106 31.8 24.2 36.4



#68  
m/p-Xylenes  
Concen: 5.531 ug/l  
RT: 11.844 min Scan# 1687  
Delta R.T. 0.000 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

Tgt Ion: 106 Resp: 36977  
Ion Ratio Lower Upper  
106 100  
91 207.3 163.7 245.5

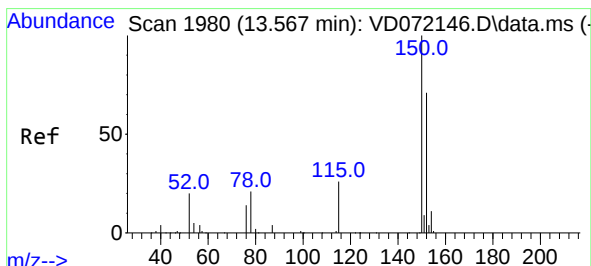
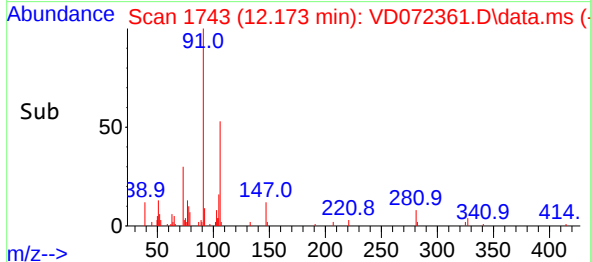
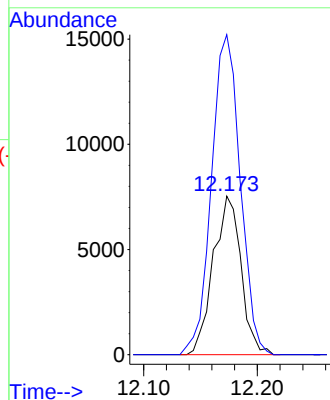
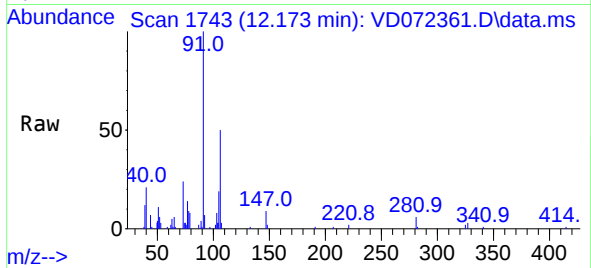




#69  
o-Xylene  
Concen: 1.996 ug/l  
RT: 12.173 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

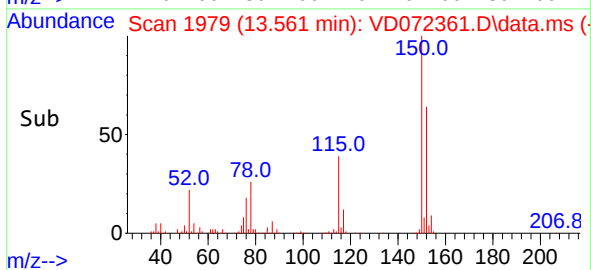
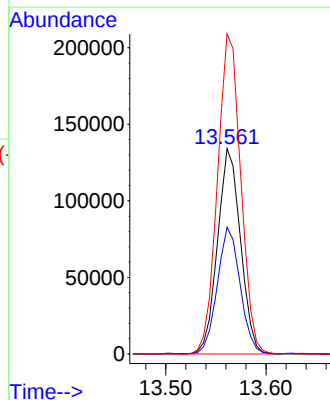
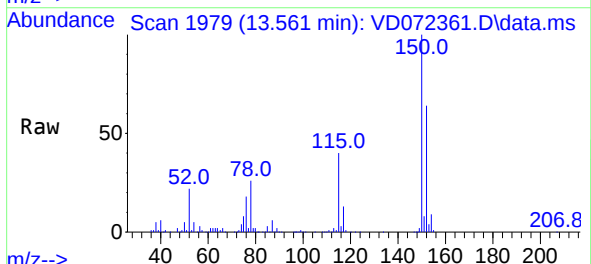
Instrument :  
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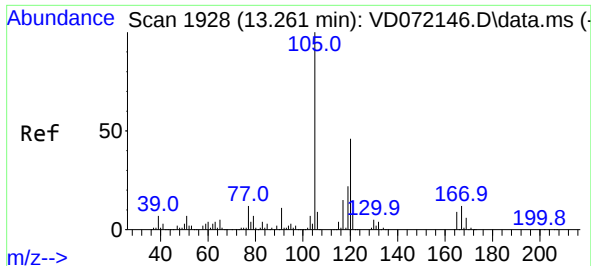
Tgt Ion:106 Resp: 12765  
Ion Ratio Lower Upper  
106 100  
91 209.5 110.4 331.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. -0.006 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

Tgt Ion:152 Resp: 213269  
Ion Ratio Lower Upper  
152 100  
115 61.5 31.3 93.8  
150 158.3 0.0 348.6

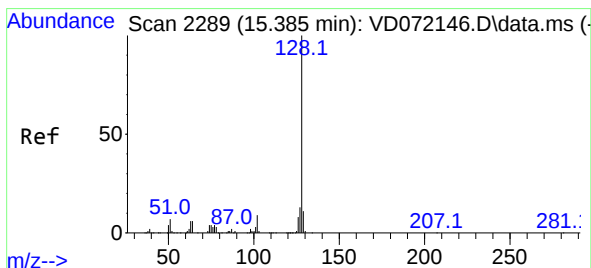
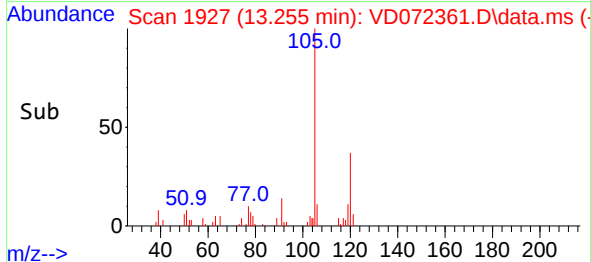
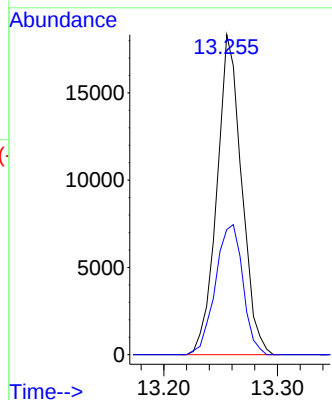
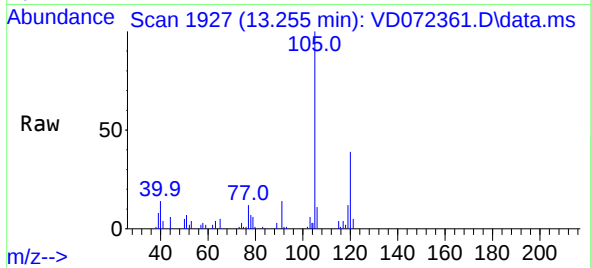




#84  
1,2,4-Trimethylbenzene  
Concen: 1.942 ug/l  
RT: 13.255 min Scan# 1927  
Delta R.T. -0.006 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

Instrument :  
MSVOA\_D  
ClientSampleId :  
G-2-4-5-6

Tgt Ion:105 Resp: 27788  
Ion Ratio Lower Upper  
105 100  
120 45.1 22.3 66.8



#95  
Naphthalene  
Concen: 7.458 ug/l  
RT: 15.385 min Scan# 2289  
Delta R.T. 0.000 min  
Lab File: VD072361.D  
Acq: 22 Mar 2022 14:10

Tgt Ion:128 Resp: 59163  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.3 15.5  
129 11.7 8.4 12.6

