

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051122\  
 Data File : VD072936.D  
 Acq On : 11 May 2022 17:44  
 Operator : VA/SY  
 Sample : N2749-10  
 Misc : 4.85G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

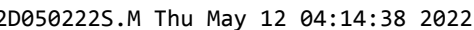
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-4

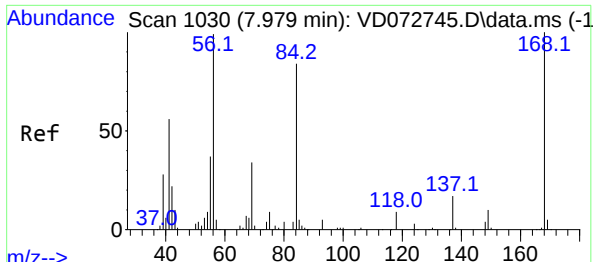
Quant Time: May 12 04:14:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050222S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 03 08:33:49 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 737      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.850  | 114   | 1131     | 50.000   | ug/l   | -0.01    |
| 63) Chlorobenzene-d5          | 11.644 | 117   | 678      | 50.000   | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.538 | 152   | 58       | 50.000   | ug/l   | #-0.02   |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332  | 65    | 392      | 40.975   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | =      | 81.940%  |
| 35) Dibromofluoromethane      | 7.920  | 113   | 112      | 14.100   | ug/l   | 0.01     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | =      | 28.200%# |
| 50) Toluene-d8                | 10.338 | 98    | 1027     | 36.044   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery | =      | 72.080%  |
| 62) 4-Bromofluorobenzene      | 12.608 | 95    | 230      | 21.649   | ug/l   | -0.01    |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery | =      | 43.300%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 12) 1,1-Dichloroethene        | 3.973  | 96    | 57       | 6.414    | ug/l # | 1        |
| 14) Allyl chloride            | 4.656  | 41    | 54       | 3.764    | ug/l # | 22       |
| 24) 1,1-Dichloroethane        | 6.432  | 63    | 55       | 2.900    | ug/l # | 82       |
| 29) Tetrahydrofuran           | 7.485  | 42    | 58       | 32.644   | ug/l # | 38       |
| 48) Methyl methacrylate       | 9.456  | 41    | 54       | 10.072   | ug/l # | 19       |
| 51) 4-Methyl-2-Pentanone      | 10.273 | 43    | 77       | 13.522   | ug/l # | 39       |
| 61) 1,2-Dibromoethane         | 11.085 | 107   | 67       | 9.424    | ug/l # | 3        |
| 67) Ethyl Benzene             | 11.738 | 91    | 88       | 3.243    | ug/l # | 44       |
| 73) Isopropylbenzene          | 12.526 | 105   | 63       | 13.961   | ug/l # | 49       |
| 74) N-amyl acetate            | 12.279 | 43    | 150      | 133.479  | ug/l # | 44       |
| 75) 1,1,2,2-Tetrachloroethane | 12.697 | 83    | 59       | 64.770   | ug/l # | 25       |
| 78) n-propylbenzene           | 12.832 | 91    | 243      | 42.726   | ug/l # | 54       |
| 79) 2-Chlorotoluene           | 12.873 | 91    | 111      | 33.411   | ug/l # | 42       |
| 80) 1,3,5-Trimethylbenzene    | 12.885 | 105   | 76       | 19.862   | ug/l # | 29       |
| 82) 4-Chlorotoluene           | 12.985 | 91    | 365      | 105.149  | ug/l # | 42       |
| 83) tert-Butylbenzene         | 13.208 | 119   | 108      | 33.200   | ug/l # | 1        |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105   | 110      | 28.761   | ug/l # | 32       |
| 85) sec-Butylbenzene          | 13.379 | 105   | 64       | 13.044   | ug/l # | 1        |
| 86) p-Isopropyltoluene        | 13.549 | 119   | 62       | 15.413   | ug/l # | 1        |
| 89) n-Butylbenzene            | 13.838 | 91    | 91       | 23.352   | ug/l # | 33       |
| 90) Hexachloroethane          | 14.126 | 117   | 58       | 70.381   | ug/l # | 17       |
| 95) Naphthalene               | 15.596 | 128   | 79       | 38.565   | ug/l # | 70       |
| -----                         |        |       |          |          |        |          |

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

Quant Time: May 12 04:14:30 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: 7.979 min Scan# 10

Delta R.T. 0.000 min

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ClientSampleId :

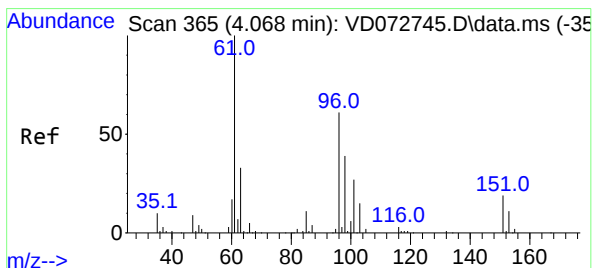
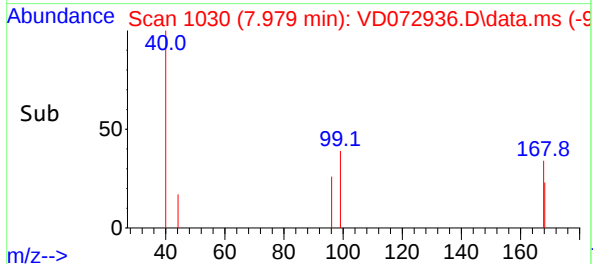
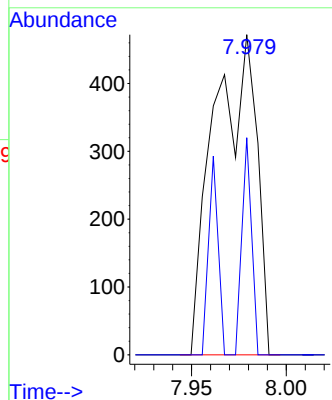
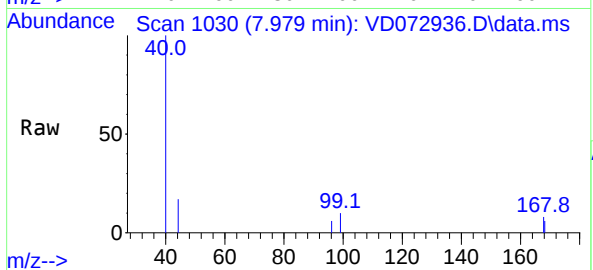
TP-4

Tgt Ion:168 Resp: 737

Ion Ratio Lower Upper

168 100

99 67.8 49.8 74.6



#12

1,1-Dichloroethene

Concen: 6.414 ug/l

RT: 3.973 min Scan# 349

Delta R.T. -0.095 min

Lab File: VD072936.D

Acq: 11 May 2022 17:44

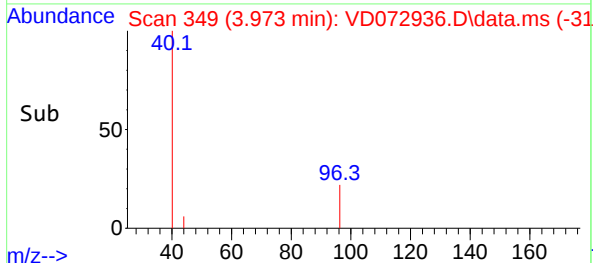
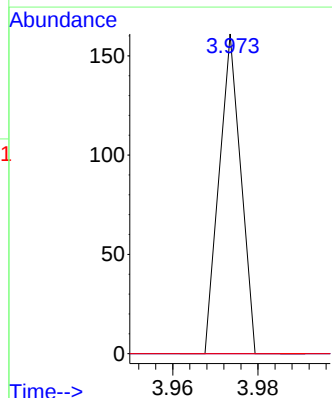
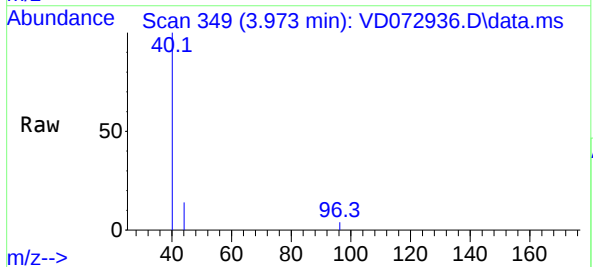
Tgt Ion: 96 Resp: 57

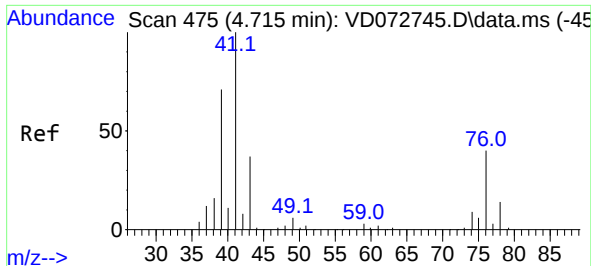
Ion Ratio Lower Upper

96 100

61 0.0 138.5 207.7#

98 0.0 48.6 73.0#

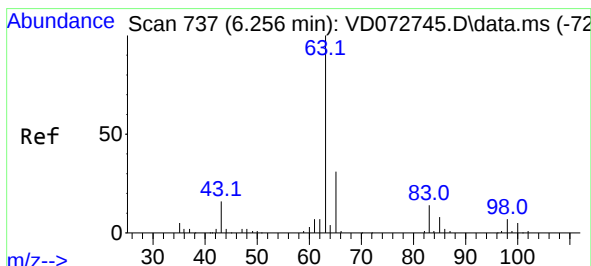
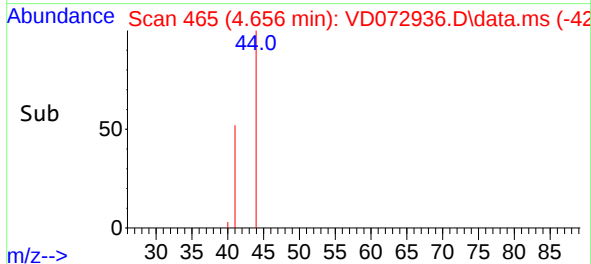
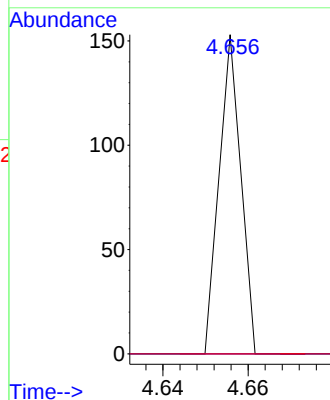
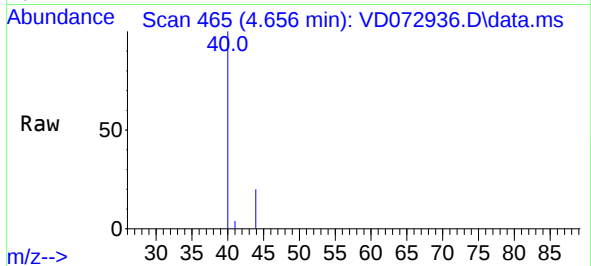




#14  
 Allyl chloride  
 Concen: 3.764 ug/l  
 RT: 4.656 min Scan# 41  
 Delta R.T. -0.059 min  
 Lab File: VD072936.D  
 Acq: 11 May 2022 17:44

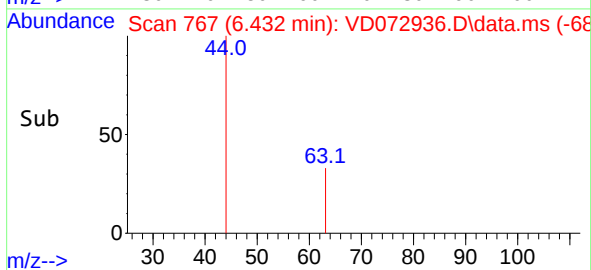
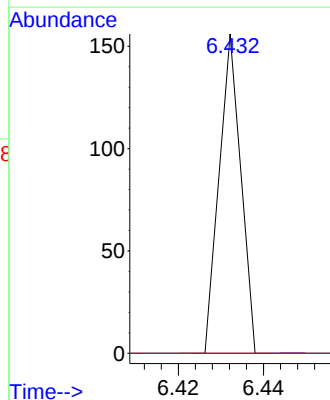
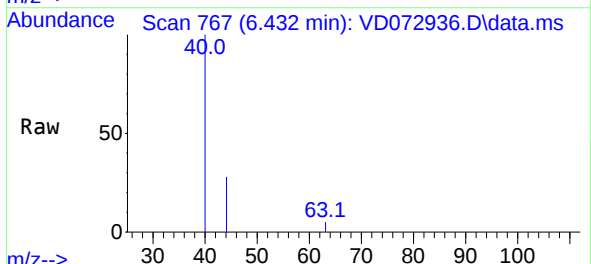
Instrument :  
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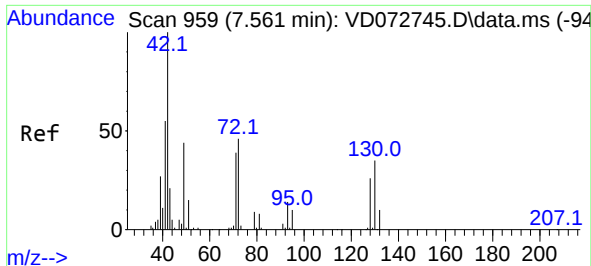
Tgt Ion: 41 Resp: 54  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 59.3 88.9#  
 76 0.0 25.7 38.5#



#24  
 1,1-Dichloroethane  
 Concen: 2.900 ug/l  
 RT: 6.432 min Scan# 767  
 Delta R.T. 0.176 min  
 Lab File: VD072936.D  
 Acq: 11 May 2022 17:44

Tgt Ion: 63 Resp: 55  
 Ion Ratio Lower Upper  
 63 100  
 98 0.0 3.6 10.9#  
 100 0.0 2.1 6.5#





#29

Tetrahydrofuran

Concen: 32.644 ug/l

RT: 7.485 min Scan# 94

Delta R.T. -0.076 min

Lab File: VD072936.D

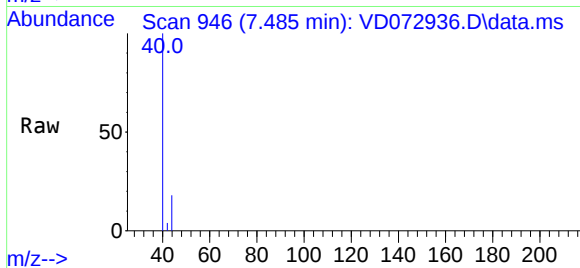
Acq: 11 May 2022 17:44

Instrument :

MSVOA\_D

ClientSampleId :

TP-4



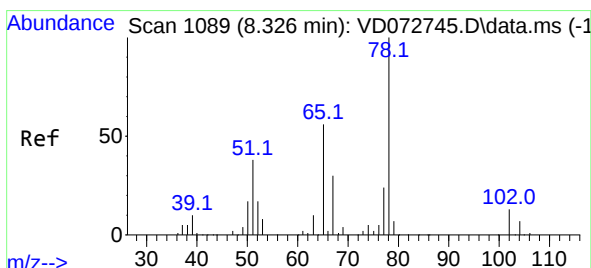
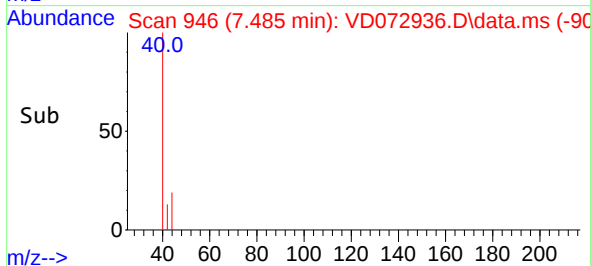
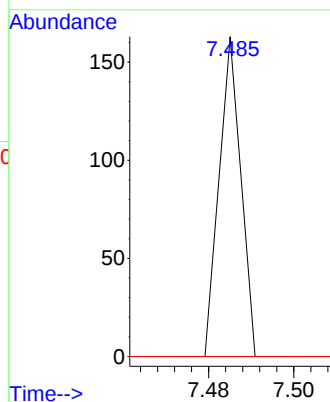
Tgt Ion: 42 Resp: 58

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

71 0.0 28.6 43.0#



#33

1,2-Dichloroethane-d4

Concen: 40.975 ug/l

RT: 8.332 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VD072936.D

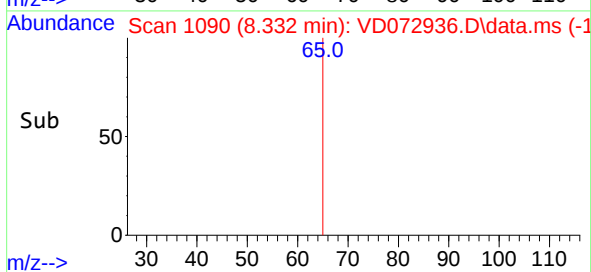
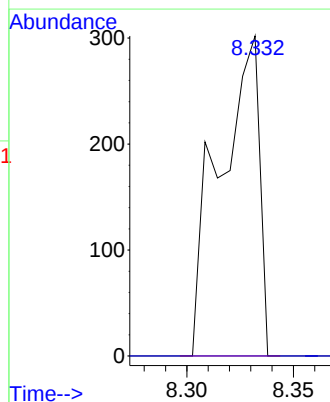
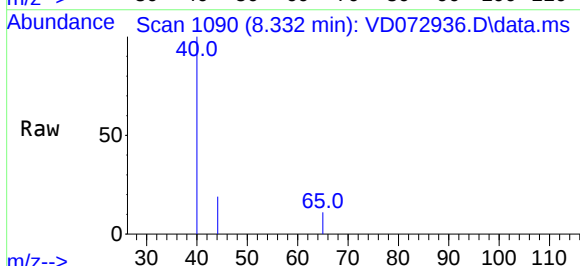
Acq: 11 May 2022 17:44

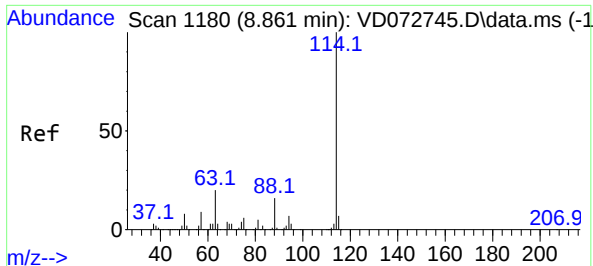
Tgt Ion: 65 Resp: 392

Ion Ratio Lower Upper

65 100

67 0.0 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.850 min Scan# 11

Delta R.T. -0.011 min

Lab File: VD072936.D

Acq: 11 May 2022 17:44

Instrument :

MSVOA\_D

ClientSampleId :

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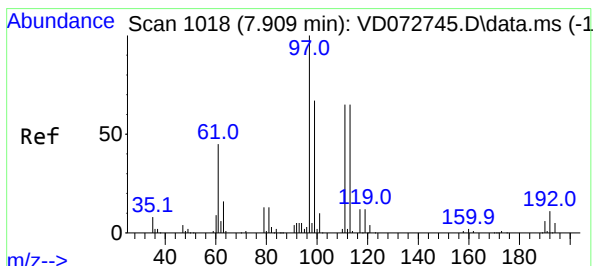
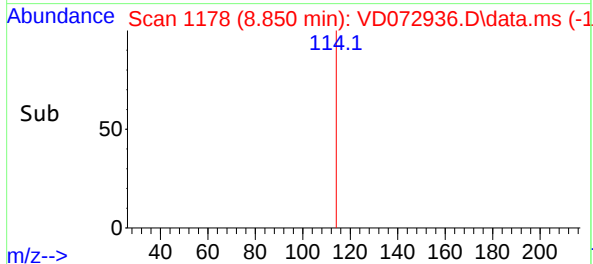
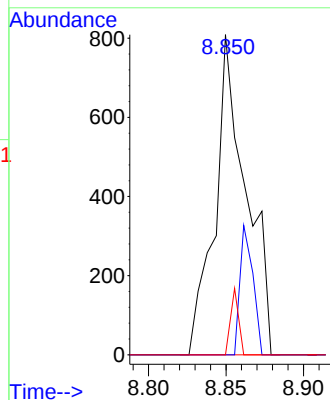
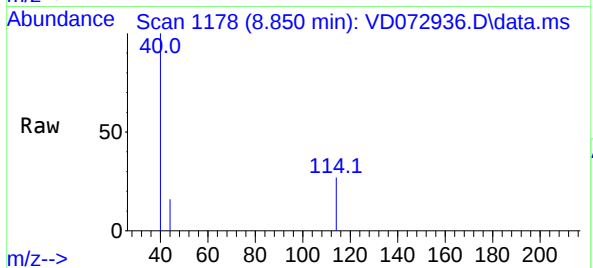
Tgt Ion:114 Resp: 1131

Ion Ratio Lower Upper

114 100

63 0.0 0.0 46.6

88 0.0 0.0 33.2



#35

Dibromofluoromethane

Concen: 14.100 ug/l

RT: 7.920 min Scan# 1020

Delta R.T. 0.011 min

Lab File: VD072936.D

Acq: 11 May 2022 17:44

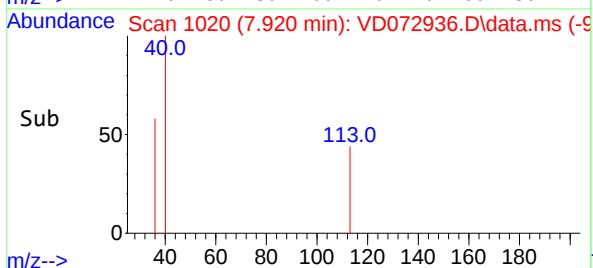
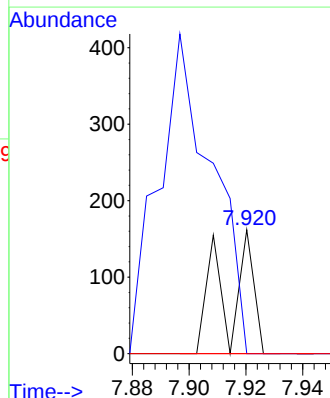
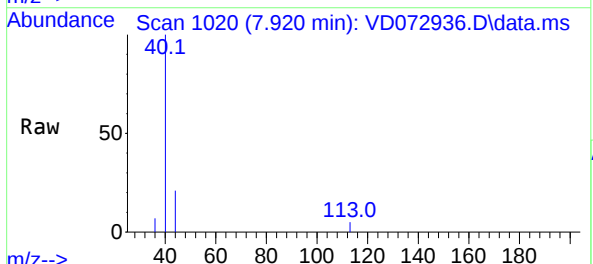
Tgt Ion:113 Resp: 112

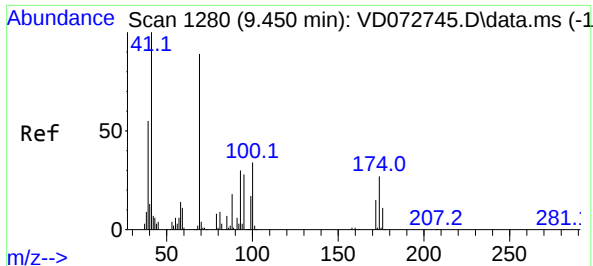
Ion Ratio Lower Upper

113 100

111 0.0 83.8 125.6#

192 0.0 14.6 21.8#

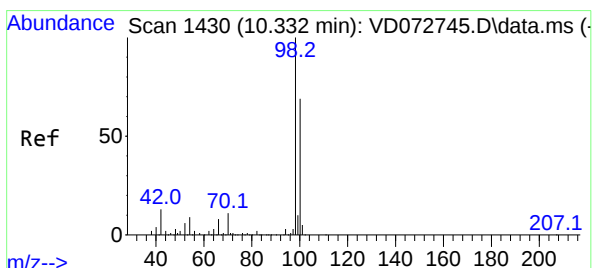
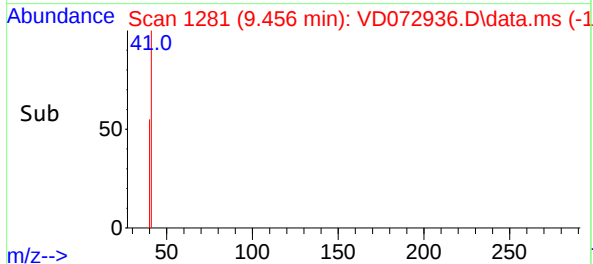
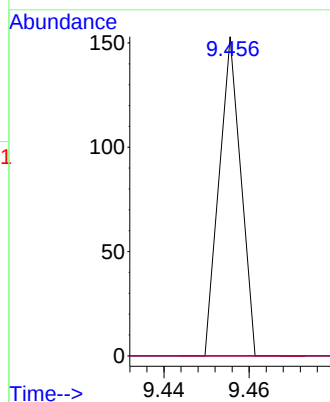
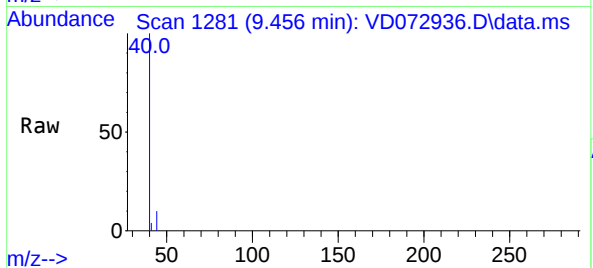




#48  
Methyl methacrylate  
Concen: 10.072 ug/l  
RT: 9.456 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

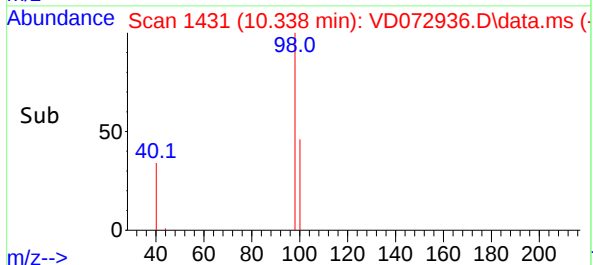
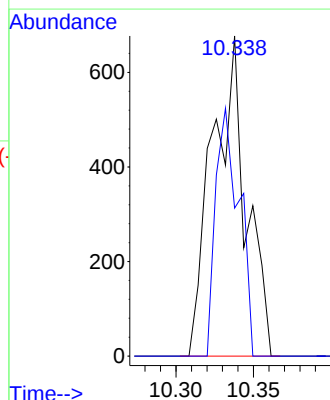
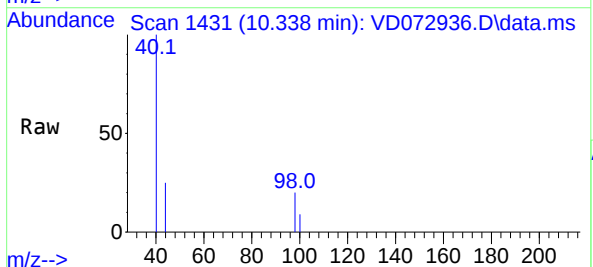
Instrument :  
MSVOA\_D  
ClientSampleId :  
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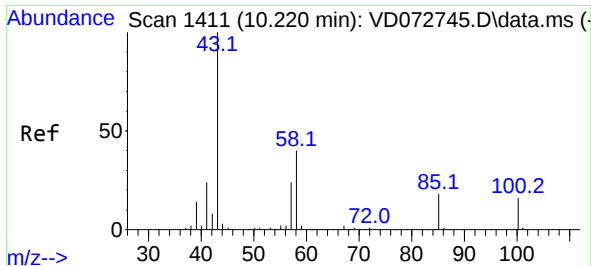
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|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 54    |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 0.0   | 56.7  | 85.1# |
| 39       | 0.0   | 42.7  | 64.1# |



#50  
Toluene-d8  
Concen: 36.044 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 98    | Resp: | 1027  |
| Ion      | Ratio | Lower | Upper |
| 98       | 100   |       |       |
| 100      | 53.7  | 52.4  | 78.6  |





#51

4-Methyl-2-Pentanone

Concen: 13.522 ug/l

RT: 10.273 min Scan# 1411

Delta R.T. 0.053 min

Lab File: VD072936.D

Acq: 11 May 2022 17:44

Instrument :

MSVOA\_D

ClientSampleId :

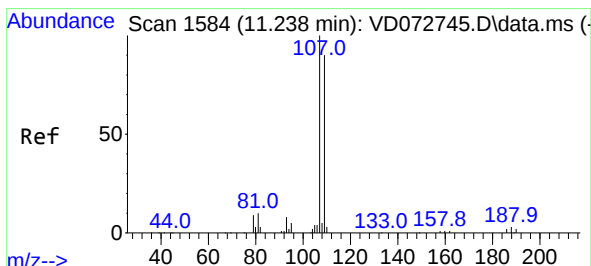
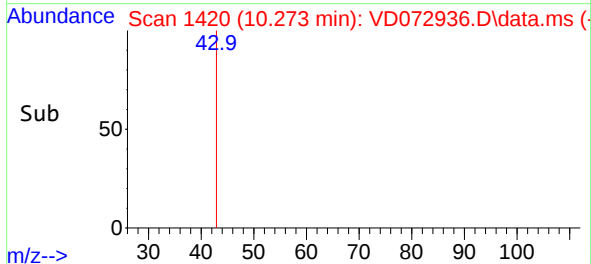
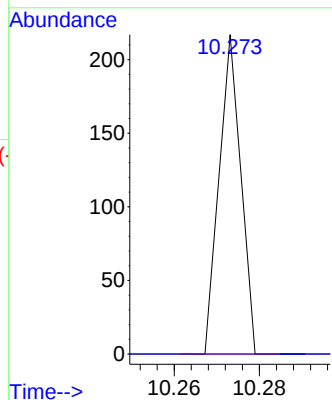
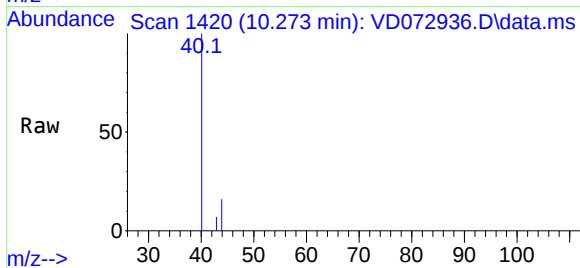
TP-4

Tgt Ion: 43 Resp: 77

Ion Ratio Lower Upper

43 100

58 0.0 28.6 43.0#



#61

1,2-Dibromoethane

Concen: 9.424 ug/l

RT: 11.085 min Scan# 1558

Delta R.T. -0.153 min

Lab File: VD072936.D

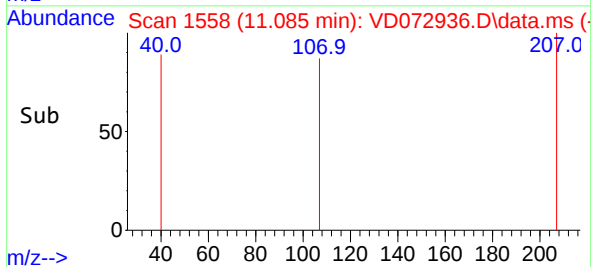
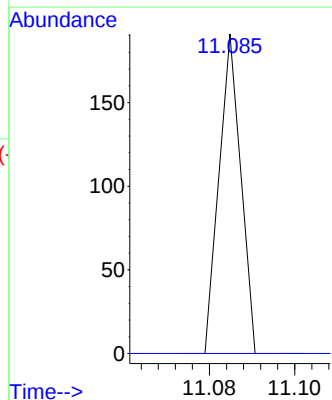
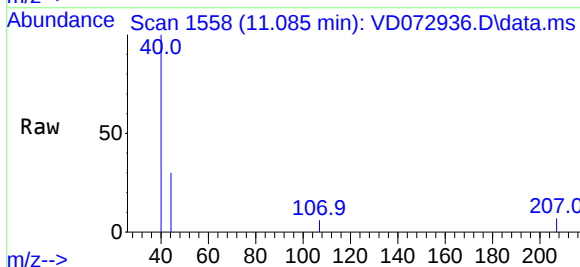
Acq: 11 May 2022 17:44

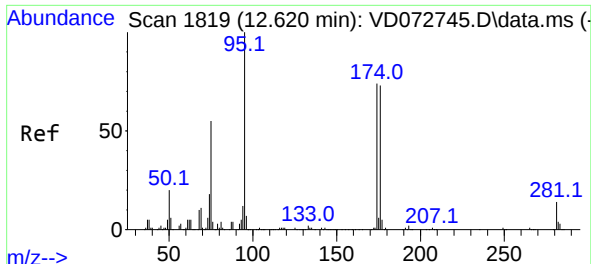
Tgt Ion: 107 Resp: 67

Ion Ratio Lower Upper

107 100

109 0.0 74.2 111.4#

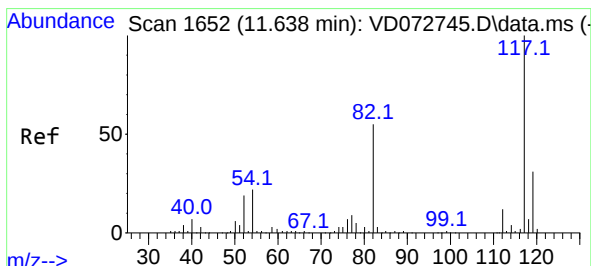
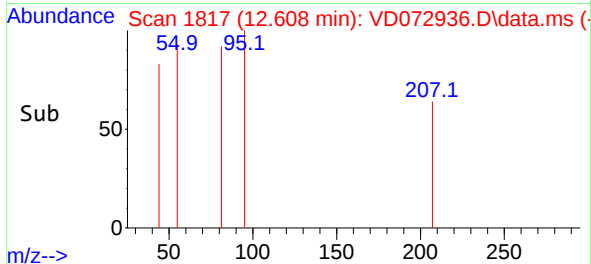
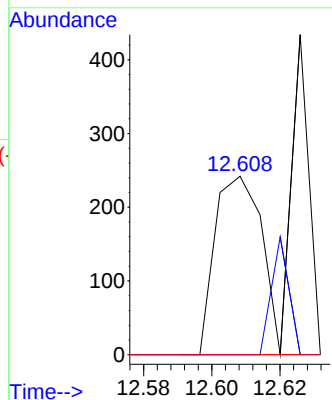
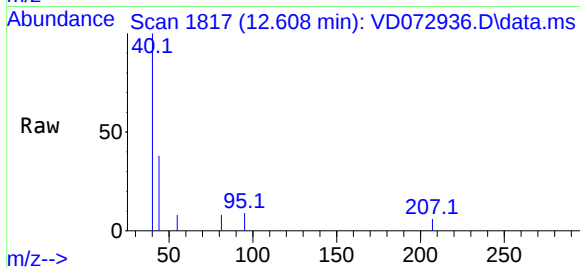




#62  
4-Bromofluorobenzene  
Concen: 21.649 ug/l  
RT: 12.608 min Scan# 1819  
Delta R.T. -0.012 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

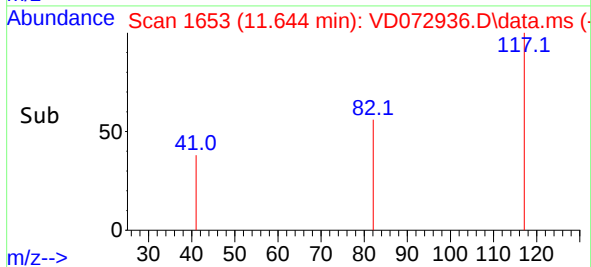
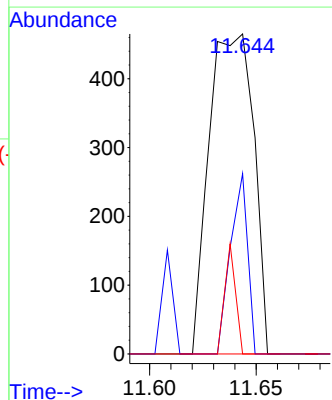
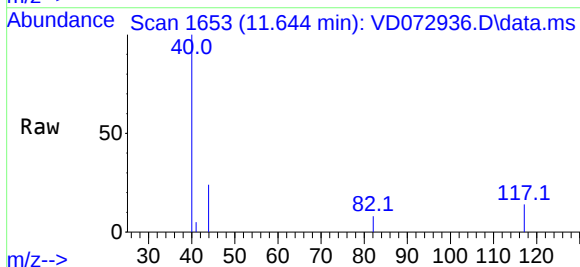
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-4

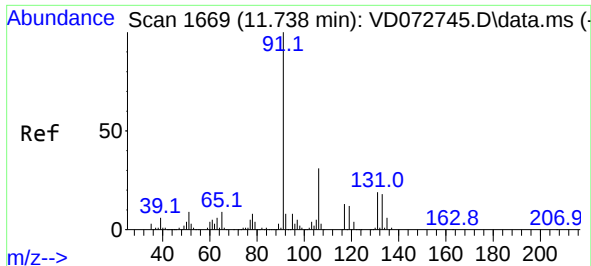
|             |             |
|-------------|-------------|
| Tgt Ion: 95 | Resp: 230   |
| Ion Ratio   | Lower Upper |
| 95 100      |             |
| 174 0.0     | 0.0 152.8   |
| 176 0.0     | 0.0 145.4   |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. 0.006 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:117 | Resp: | 678   |       |
| Ion         | Ratio | Lower | Upper |
| 117         | 100   |       |       |
| 82          | 56.3  | 45.3  | 67.9  |
| 119         | 0.0   | 26.6  | 40.0# |

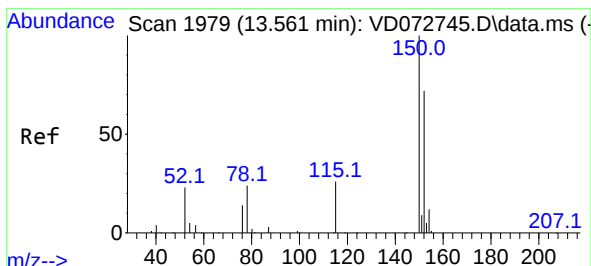
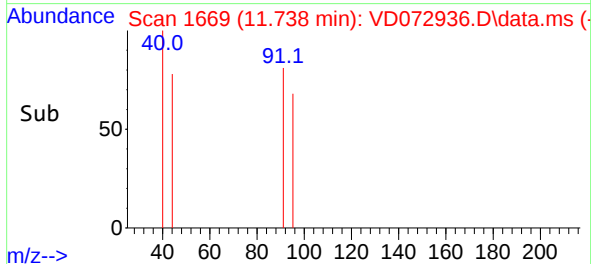
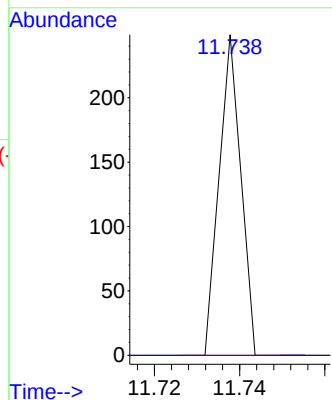
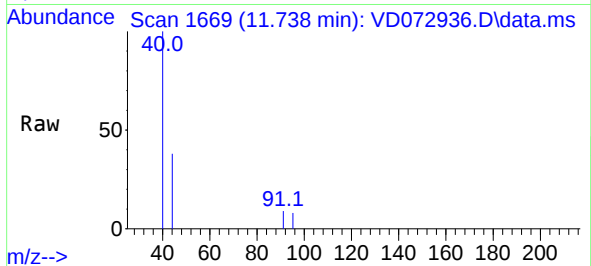




#67  
Ethyl Benzene  
Concen: 3.243 ug/l  
RT: 11.738 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

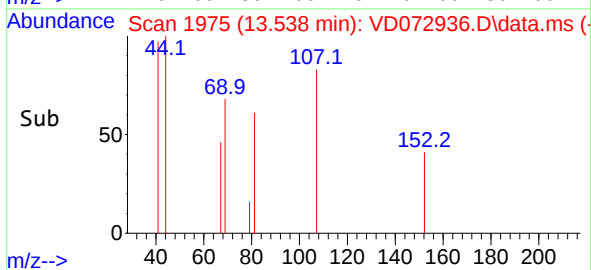
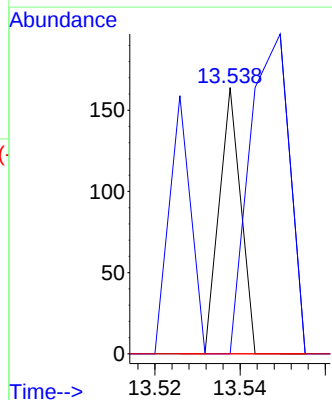
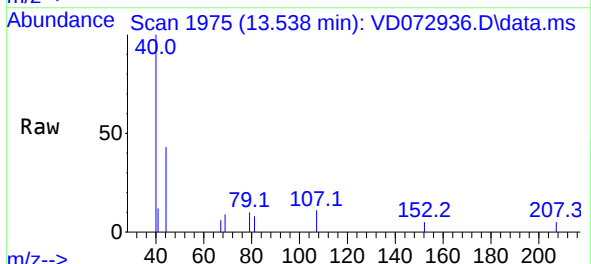
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-4

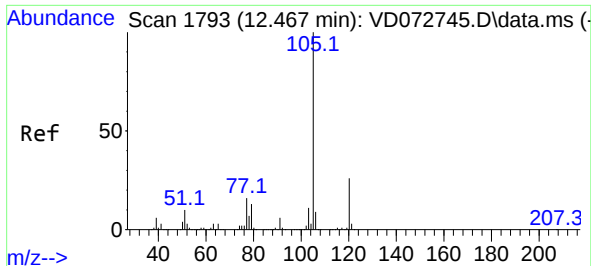
Tgt Ion: 91 Resp: 88  
Ion Ratio Lower Upper  
91 100  
106 0.0 24.2 36.4#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.538 min Scan# 1975  
Delta R.T. -0.023 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

Tgt Ion: 152 Resp: 58  
Ion Ratio Lower Upper  
152 100  
115 219.0 31.3 93.8#  
150 0.0 0.0 348.6

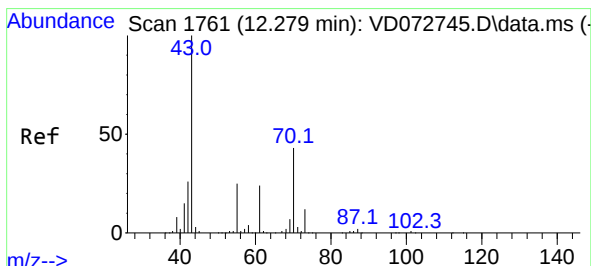
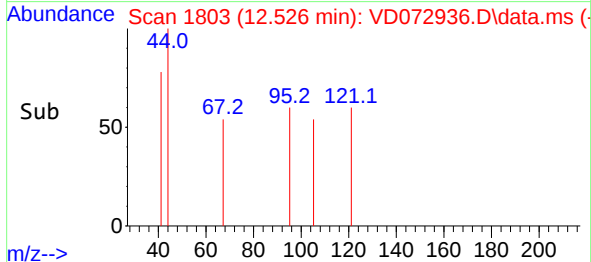
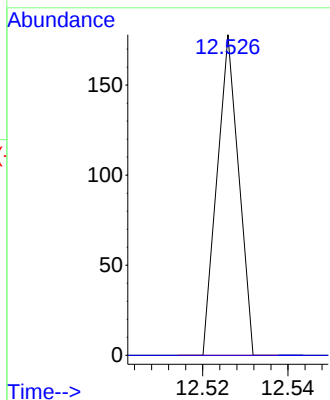
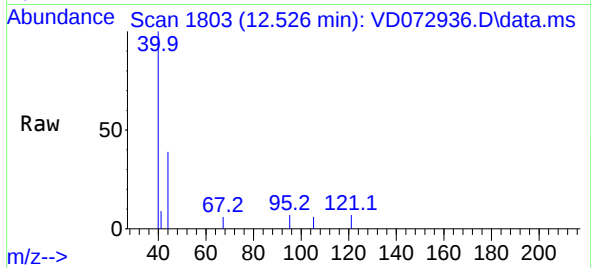




#73  
Isopropylbenzene  
Concen: 13.961 ug/l  
RT: 12.526 min Scan# 1803  
Delta R.T. 0.059 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

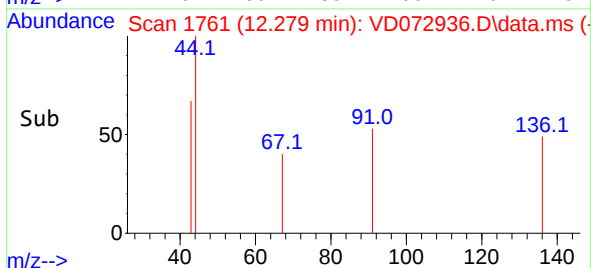
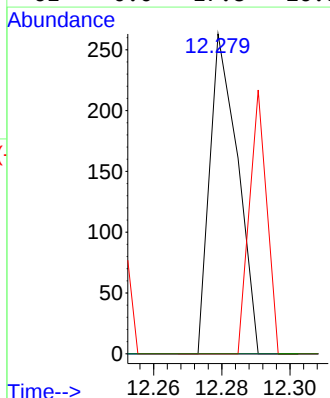
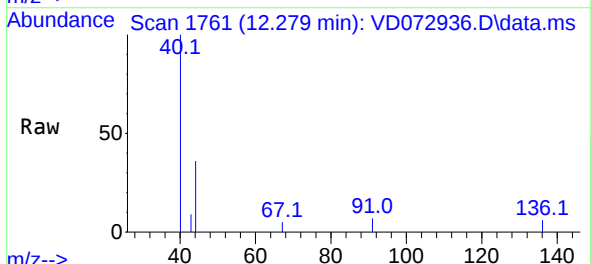
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-4

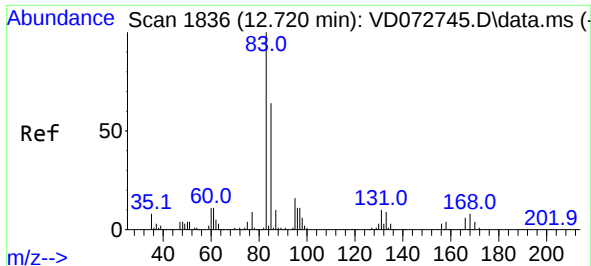
Tgt Ion:105 Resp: 63  
Ion Ratio Lower Upper  
105 100  
120 0.0 13.0 38.9#



#74  
N-ethyl acetate  
Concen: 133.479 ug/l  
RT: 12.279 min Scan# 1761  
Delta R.T. -0.000 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

Tgt Ion: 43 Resp: 150  
Ion Ratio Lower Upper  
43 100  
70 0.0 31.3 46.9#  
55 51.3 20.0 30.0#  
61 0.0 17.8 26.8#

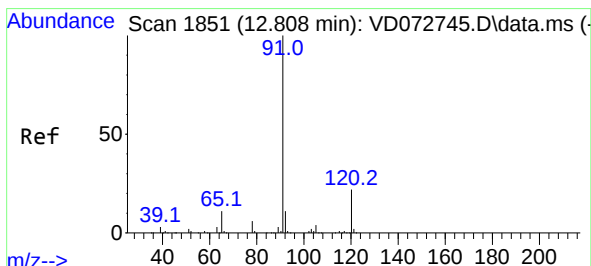
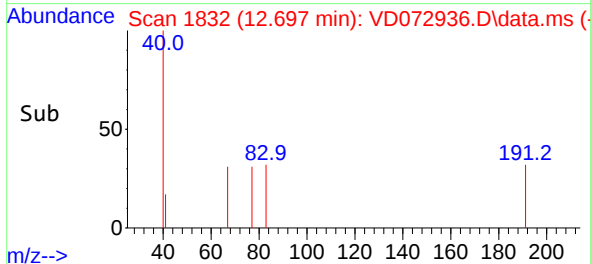
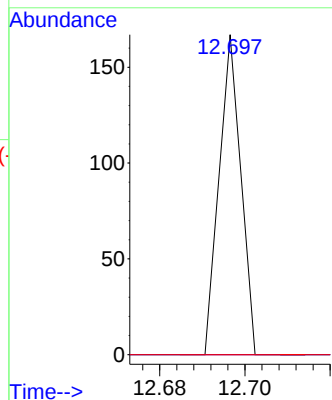
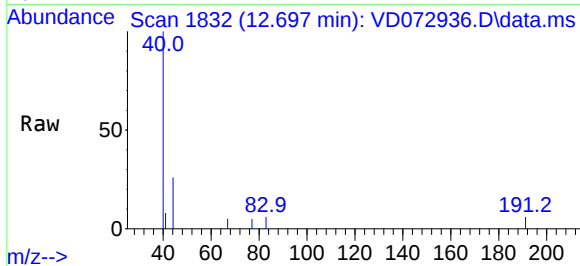




#75  
1,1,2,2-Tetrachloroethane  
Concen: 64.770 ug/l  
RT: 12.697 min Scan# 1832  
Delta R.T. -0.024 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

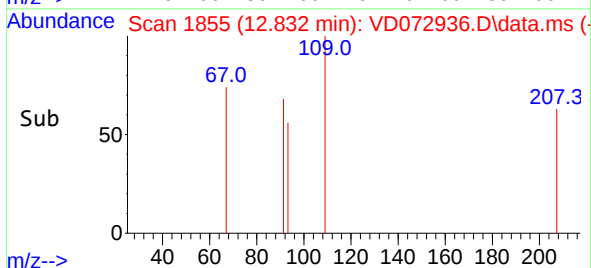
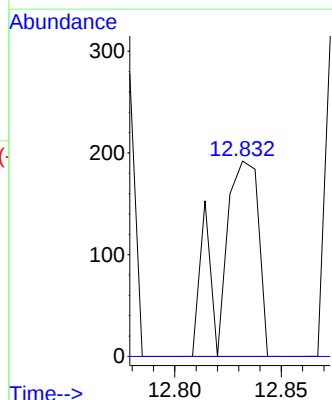
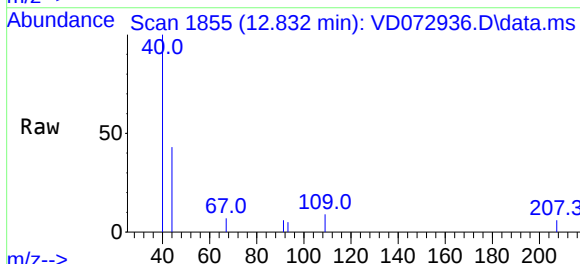
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-4

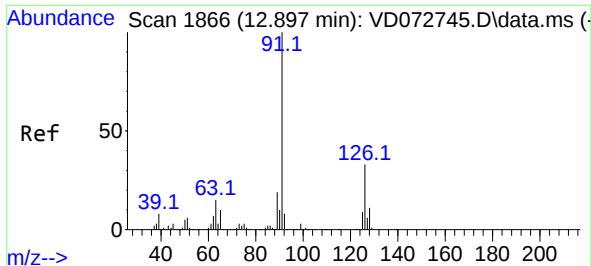
Tgt Ion: 83 Resp: 59  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.0 14.9#  
85 0.0 32.6 98.0#



#78  
n-propylbenzene  
Concen: 42.726 ug/l  
RT: 12.832 min Scan# 1855  
Delta R.T. 0.024 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

Tgt Ion: 91 Resp: 243  
Ion Ratio Lower Upper  
91 100  
120 0.0 10.9 32.9#

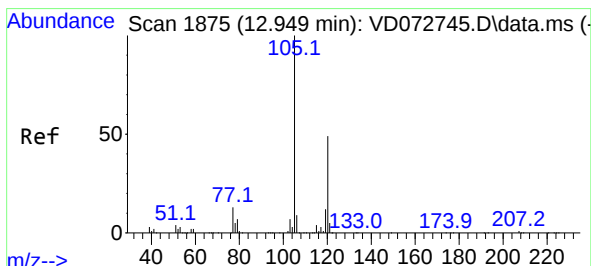
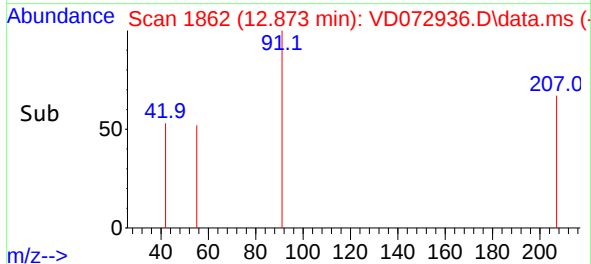
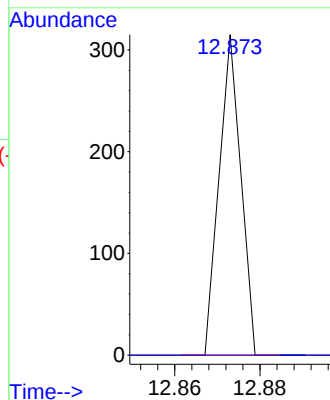
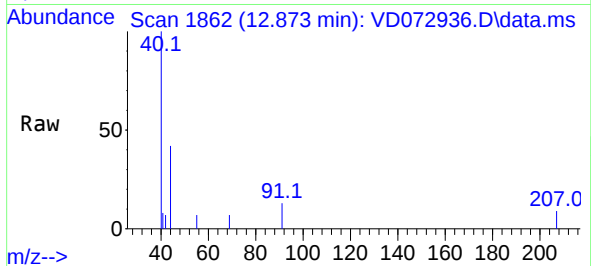




#79  
2-Chlorotoluene  
Concen: 33.411 ug/l  
RT: 12.873 min Scan# 1862  
Delta R.T. -0.024 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

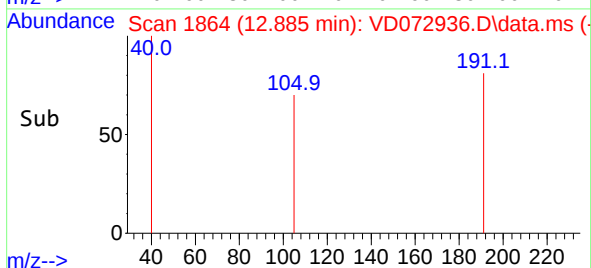
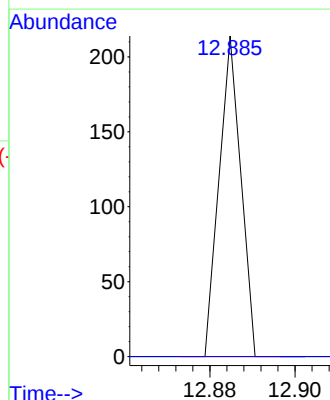
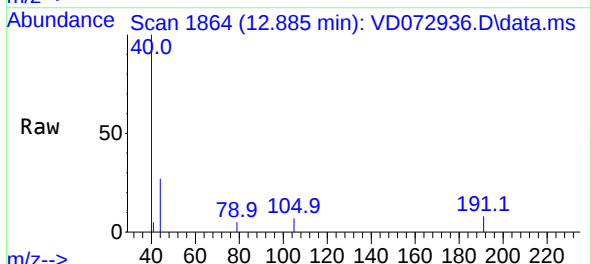
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-4

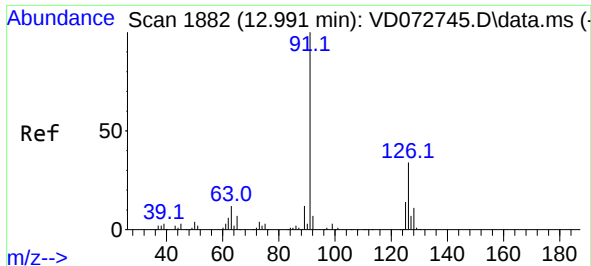
Tgt Ion: 91 Resp: 111  
Ion Ratio Lower Upper  
91 100  
126 0.0 16.2 48.6#



#80  
1,3,5-Trimethylbenzene  
Concen: 19.862 ug/l  
RT: 12.885 min Scan# 1864  
Delta R.T. -0.064 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

Tgt Ion: 105 Resp: 76  
Ion Ratio Lower Upper  
105 100  
120 0.0 24.3 72.8#

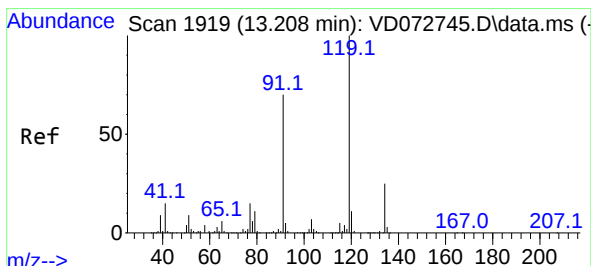
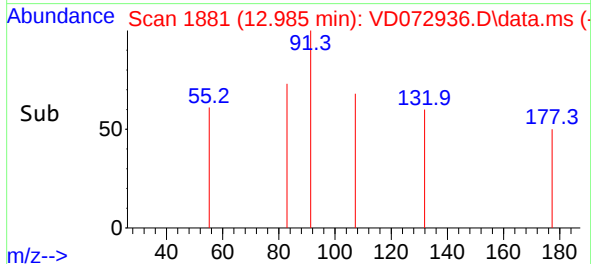
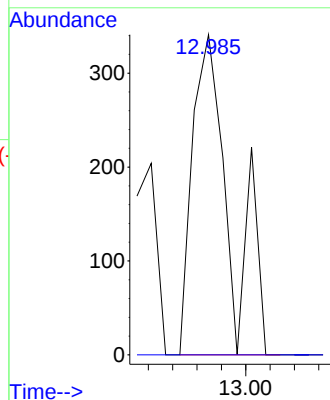
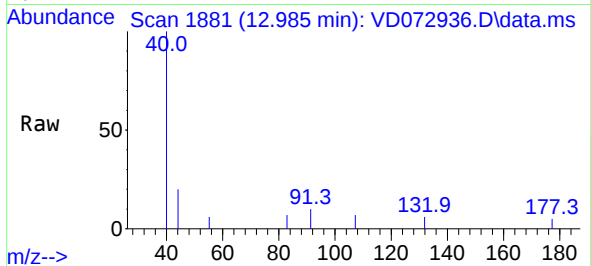




#82  
4-Chlorotoluene  
Concen: 105.149 ug/l  
RT: 12.985 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

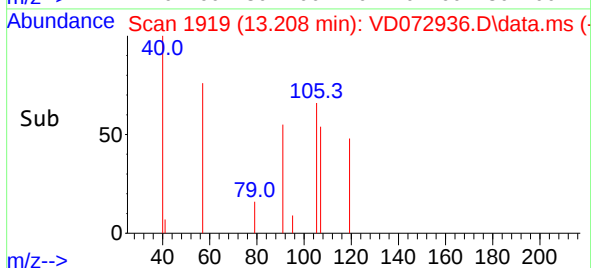
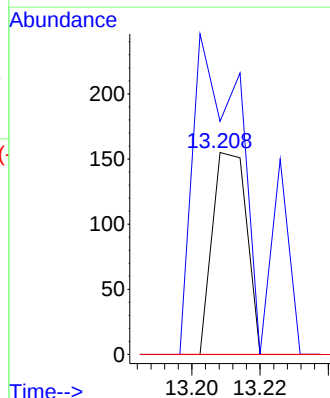
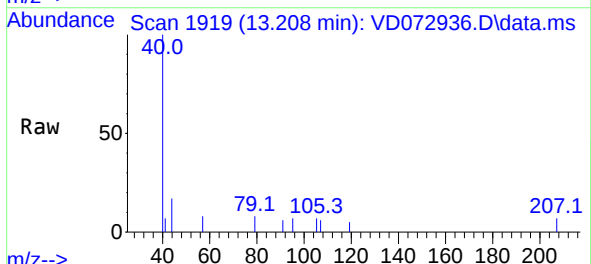
Instrument :  
MSVOA\_D  
ClientSampleId :  
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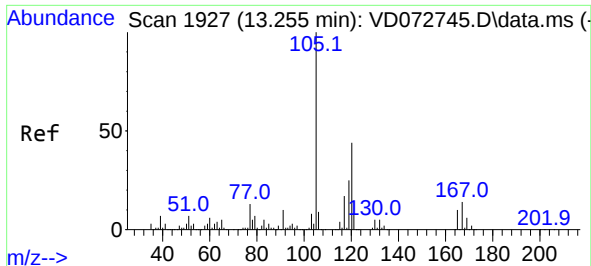
Tgt Ion: 91 Resp: 365  
Ion Ratio Lower Upper  
91 100  
126 0.0 16.5 49.5#



#83  
tert-Butylbenzene  
Concen: 33.200 ug/l  
RT: 13.208 min Scan# 1919  
Delta R.T. 0.000 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

Tgt Ion: 119 Resp: 108  
Ion Ratio Lower Upper  
119 100  
91 258.3 34.8 104.5#  
134 0.0 13.3 39.9#

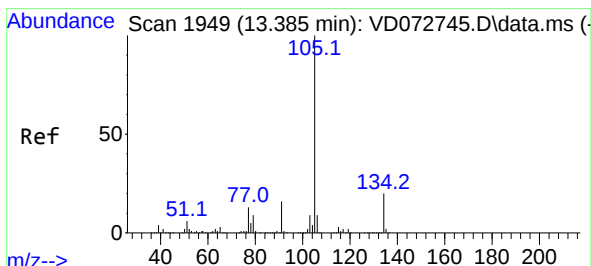
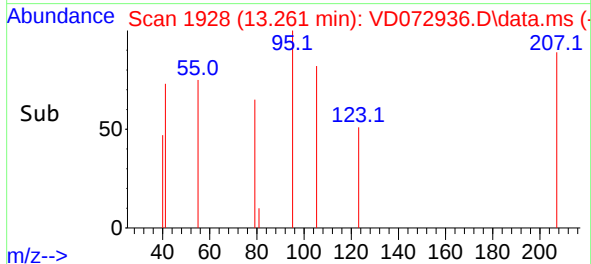
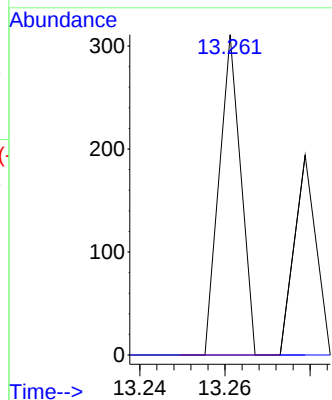
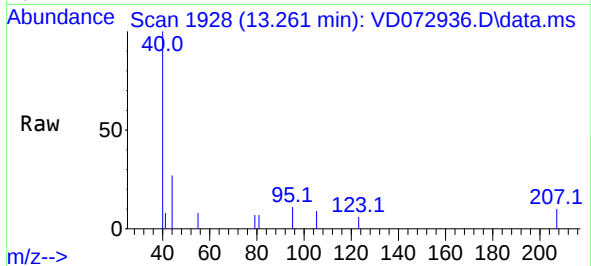




#84  
1,2,4-Trimethylbenzene  
Concen: 28.761 ug/l  
RT: 13.261 min Scan# 1928  
Delta R.T. 0.006 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

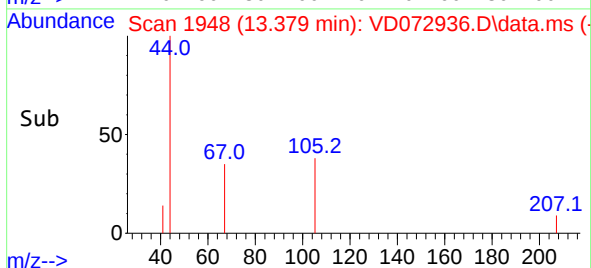
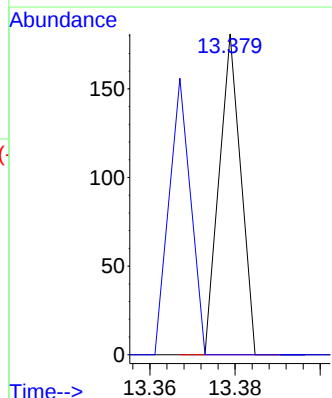
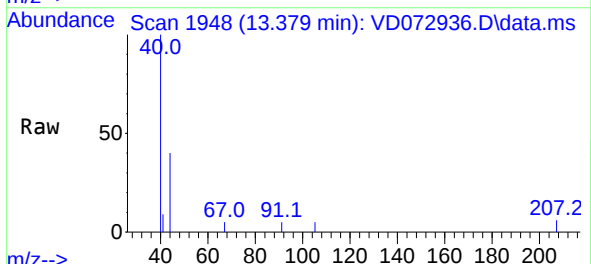
Instrument :  
MSVOA\_D  
ClientSampleId :  
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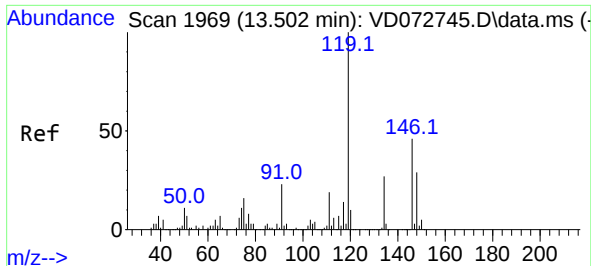
Tgt Ion:105 Resp: 110  
Ion Ratio Lower Upper  
105 100  
120 0.0 22.3 66.8#



#85  
sec-Butylbenzene  
Concen: 13.044 ug/l  
RT: 13.379 min Scan# 1948  
Delta R.T. -0.006 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

Tgt Ion:105 Resp: 64  
Ion Ratio Lower Upper  
105 100  
134 85.9 9.8 29.3#

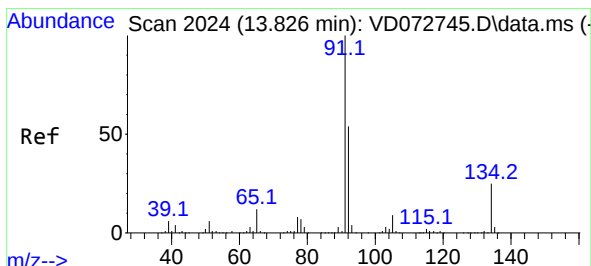
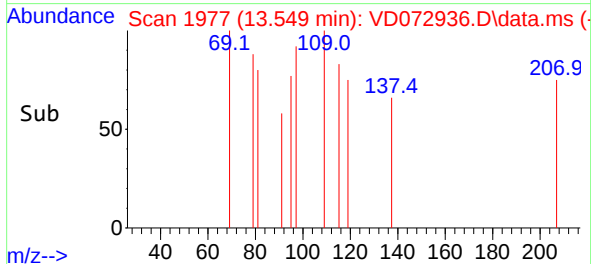
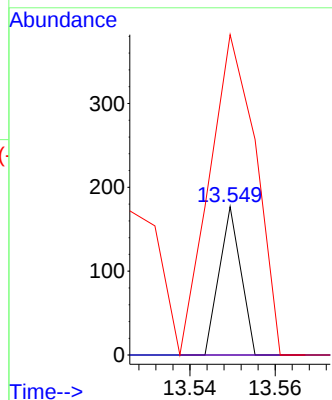
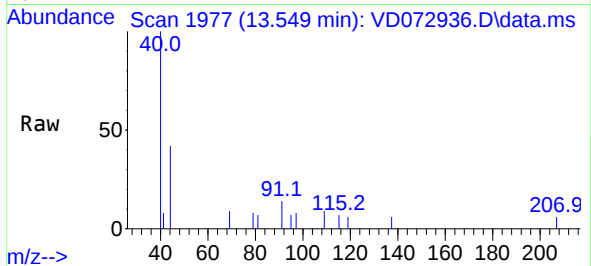




#86  
p-Isopropyltoluene  
Concen: 15.413 ug/l  
RT: 13.549 min Scan# 1969  
Delta R.T. 0.047 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

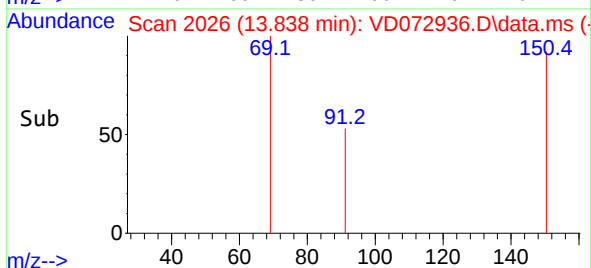
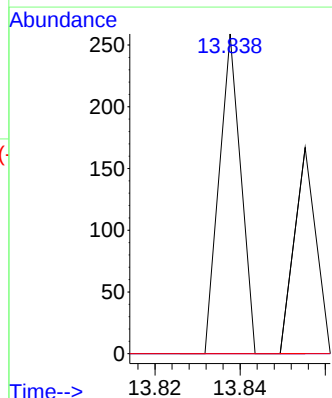
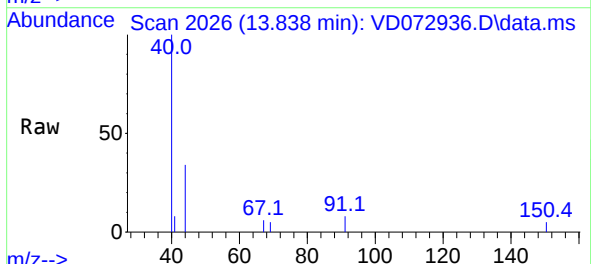
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-4

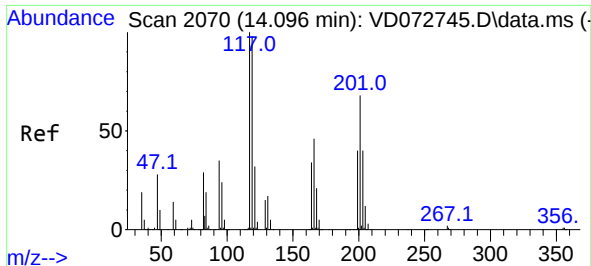
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 62    |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 0.0   | 12.9  | 38.6# |
| 91       | 464.5 | 12.1  | 36.3# |



#89  
n-Butylbenzene  
Concen: 23.352 ug/l  
RT: 13.838 min Scan# 2026  
Delta R.T. 0.012 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 91    |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 0.0   | 26.6  | 79.8# |
| 134      | 0.0   | 12.3  | 36.9# |

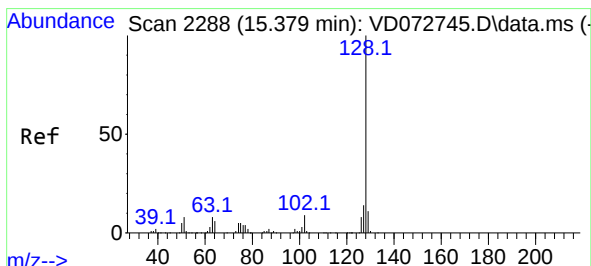
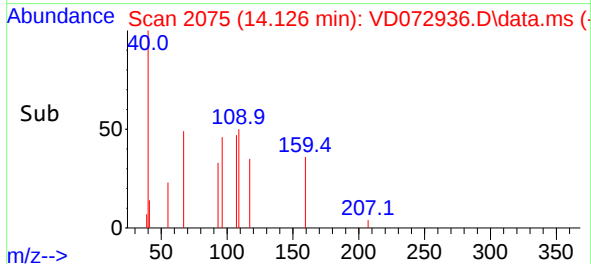
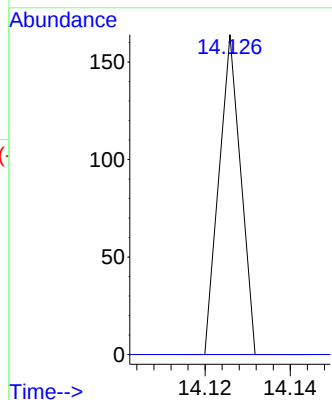
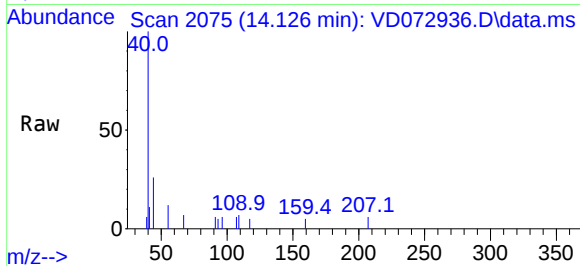




#90  
Hexachloroethane  
Concen: 70.381 ug/l  
RT: 14.126 min Scan# 2070  
Delta R.T. 0.030 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-4

Tgt Ion:117 Resp: 58  
Ion Ratio Lower Upper  
117 100  
201 0.0 33.4 100.2#



#95  
Naphthalene  
Concen: 38.565 ug/l  
RT: 15.596 min Scan# 2325  
Delta R.T. 0.217 min  
Lab File: VD072936.D  
Acq: 11 May 2022 17:44

Tgt Ion:128 Resp: 79  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.4 12.6#

