

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091622\  
 Data File : VY010540.D  
 Acq On : 16 Sep 2022 17:14  
 Operator : KP/MD  
 Sample : N4630-11  
 Misc : 4.21g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-17-4-3

Quant Time: Sep 17 00:29:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 09 17:08:30 2022  
 Response via : Initial Calibration

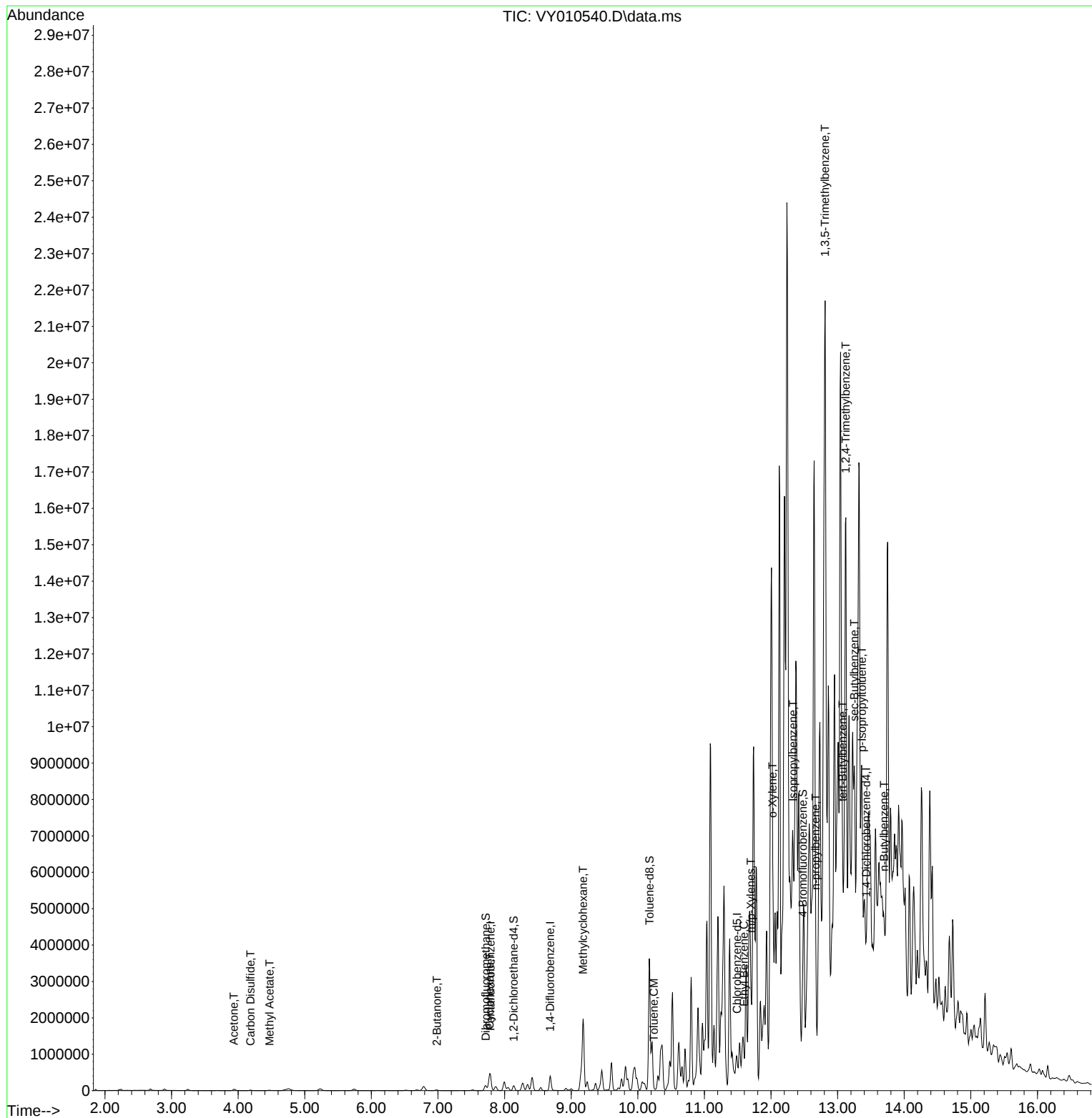
| Compound                    | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------------|----------|
| -----                       |        |       |          |          |             |          |
| Internal Standards          |        |       |          |          |             |          |
| 1) Pentafluorobenzene       | 7.789  | 168   | 208343   | 50.000   | ug/l        | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.685  | 114   | 330328   | 50.000   | ug/l        | 0.00     |
| 63) Chlorobenzene-d5        | 11.490 | 117   | 235194   | 50.000   | ug/l        | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4  | 13.428 | 152   | 157566   | 50.000   | ug/l        | # 0.00   |
| System Monitoring Compounds |        |       |          |          |             |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 106255   | 50.637   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 101.280%  |          |
| 35) Dibromofluoromethane    | 7.716  | 113   | 99413    | 42.375   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 84.760%   |          |
| 50) Toluene-d8              | 10.179 | 98    | 520000   | 68.392   | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | = 136.780%  |          |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 379016   | 136.397  | ug/l        | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | = 272.800%# |          |
| Target Compounds            |        |       |          |          |             |          |
|                             |        |       |          |          | Qvalue      |          |
| 16) Acetone                 | 3.936  | 43    | 63931    | 132.760  | ug/l        | 92       |
| 17) Carbon Disulfide        | 4.186  | 76    | 23747    | 4.371    | ug/l        | 97       |
| 18) Methyl Acetate          | 4.472  | 43    | 21436    | 14.470   | ug/l        | # 89     |
| 25) 2-Butanone              | 6.984  | 43    | 18795    | 24.559   | ug/l        | 91       |
| 31) Cyclohexane             | 7.777  | 56    | 127844   | 36.064   | ug/l        | 92       |
| 39) Methylcyclohexane       | 9.179  | 83    | 863971   | 215.743  | ug/l        | 91       |
| 52) Toluene                 | 10.240 | 92    | 12197    | 2.016    | ug/l        | 96       |
| 67) Ethyl Benzene           | 11.593 | 91    | 96480    | 10.364   | ug/l        | 97       |
| 68) m/p-Xylenes             | 11.697 | 106   | 268150   | 73.373   | ug/l        | 94       |
| 69) o-Xylene                | 12.026 | 106   | 217258   | 62.259   | ug/l        | 88       |
| 73) Isopropylbenzene        | 12.331 | 105   | 863201   | 70.214   | ug/l        | 100      |
| 78) n-propylbenzene         | 12.672 | 91    | 1028503  | 70.649   | ug/l        | 98       |
| 80) 1,3,5-Trimethylbenzene  | 12.812 | 105   | 1732772  | 167.048  | ug/l        | 100      |
| 83) tert-Butylbenzene       | 13.075 | 119   | 229756   | 25.341   | ug/l        | 91       |
| 84) 1,2,4-Trimethylbenzene  | 13.123 | 105   | 5183598  | 510.726  | ug/l        | 96       |
| 85) sec-Butylbenzene        | 13.251 | 105   | 1032698  | 76.924   | ug/l        | # 71     |
| 86) p-Isopropyltoluene      | 13.367 | 119   | 302977   | 26.681   | ug/l        | 93       |
| 89) n-Butylbenzene          | 13.696 | 91    | 637224   | 61.820   | ug/l        | # 74     |
| -----                       |        |       |          |          |             |          |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091622\  
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Sample : N4630-11  
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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-17-4-3

Quant Time: Sep 17 00:29:37 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090922S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 09 17:08:30 2022  
Response via : Initial Calibration

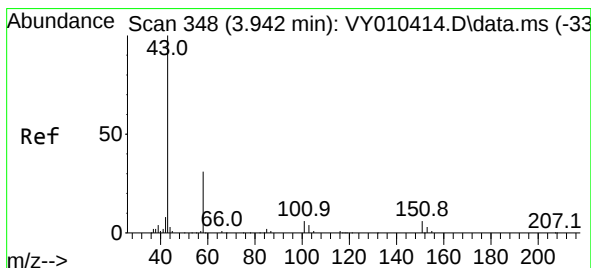
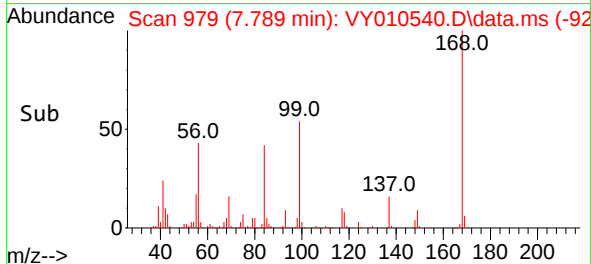
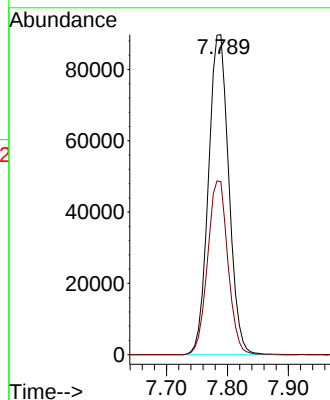
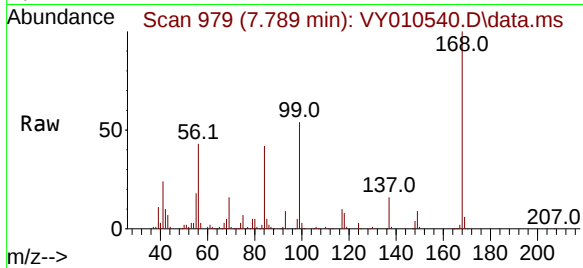




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

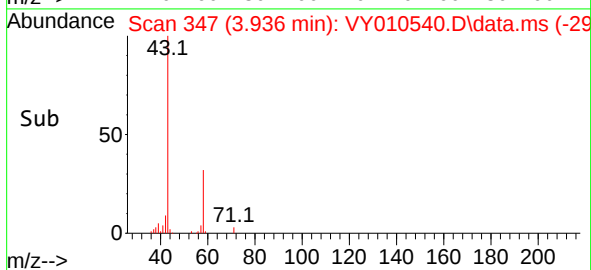
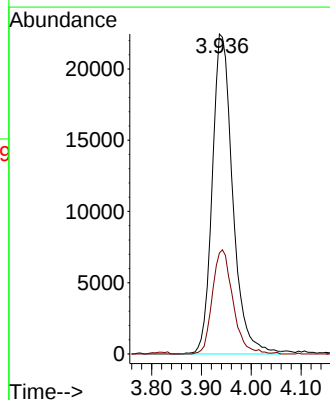
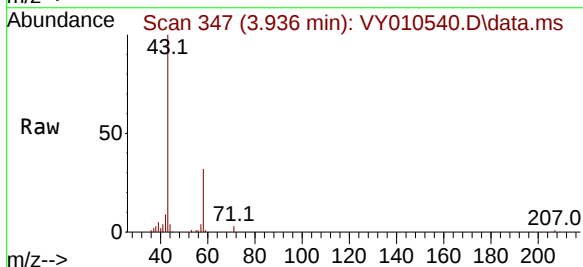
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-17-4-3

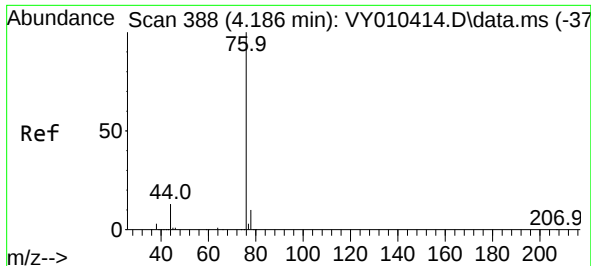
Tgt Ion:168 Resp: 208343  
Ion Ratio Lower Upper  
168 100  
99 54.1 46.9 70.3



#16  
Acetone  
Concen: 132.760 ug/l  
RT: 3.936 min Scan# 347  
Delta R.T. -0.006 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion: 43 Resp: 63931  
Ion Ratio Lower Upper  
43 100  
58 31.6 22.0 33.0

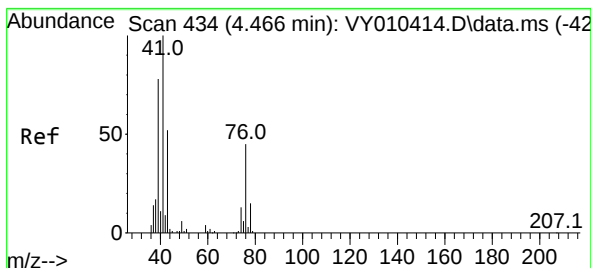
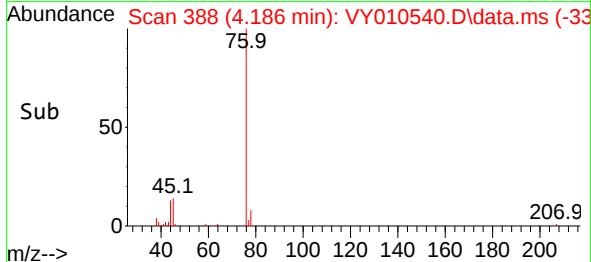
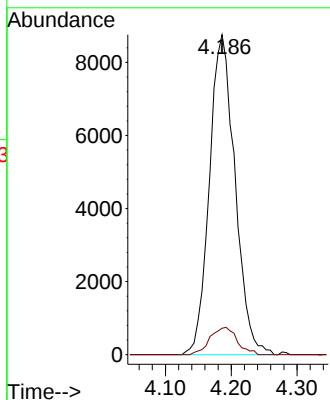
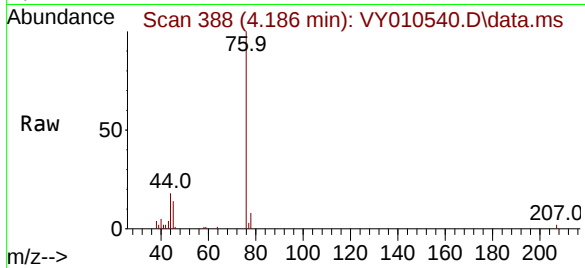




#17  
Carbon Disulfide  
Concen: 4.371 ug/l  
RT: 4.186 min Scan# 388  
Delta R.T. -0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

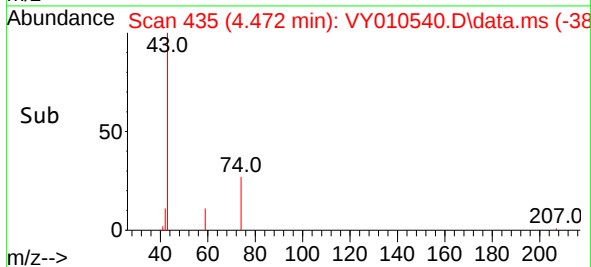
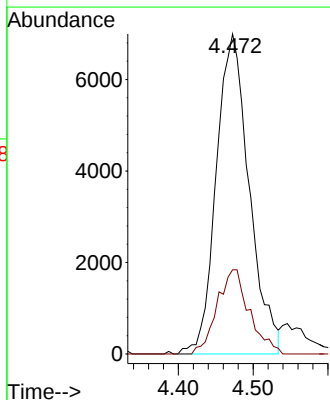
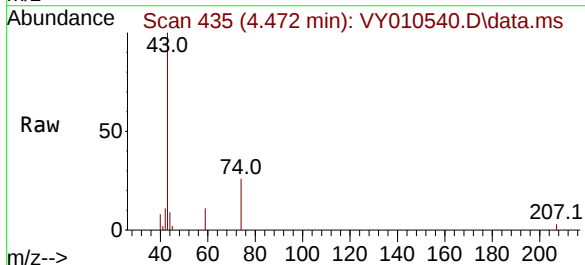
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-17-4-3

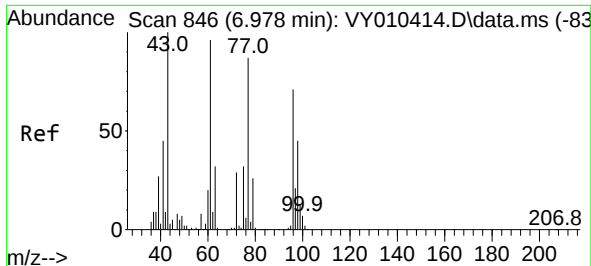
Tgt Ion: 76 Resp: 23747  
Ion Ratio Lower Upper  
76 100  
78 8.3 7.4 11.0



#18  
Methyl Acetate  
Concen: 14.470 ug/l  
RT: 4.472 min Scan# 435  
Delta R.T. 0.006 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion: 43 Resp: 21436  
Ion Ratio Lower Upper  
43 100  
74 25.8 16.6 24.8#

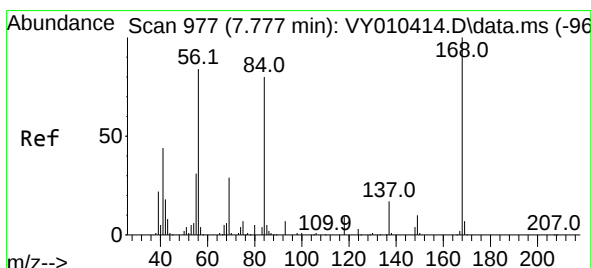
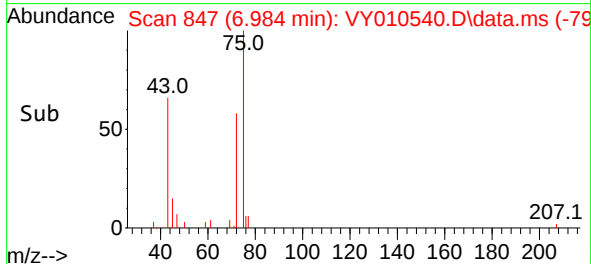
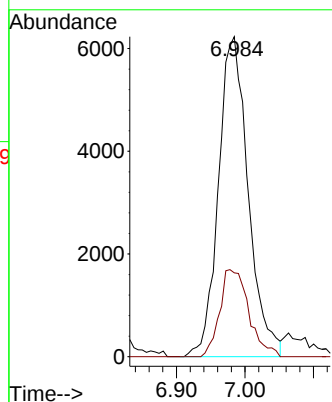
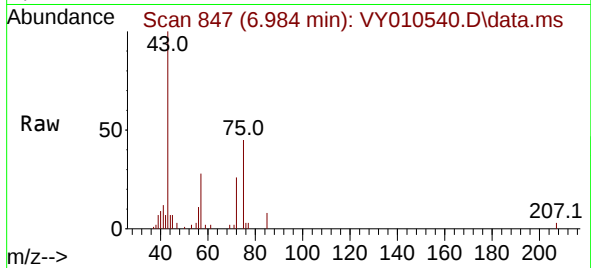




#25  
2-Butanone  
Concen: 24.559 ug/l  
RT: 6.984 min Scan# 846  
Delta R.T. 0.006 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

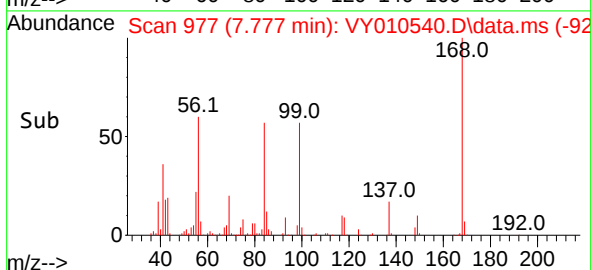
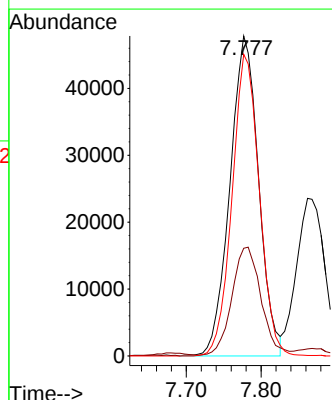
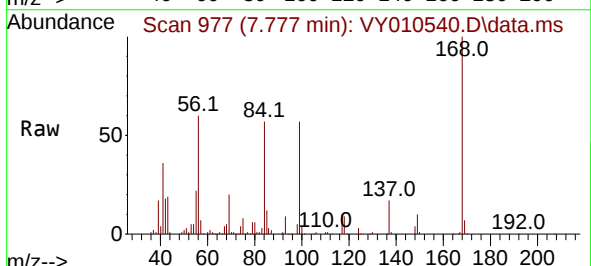
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-17-4-3

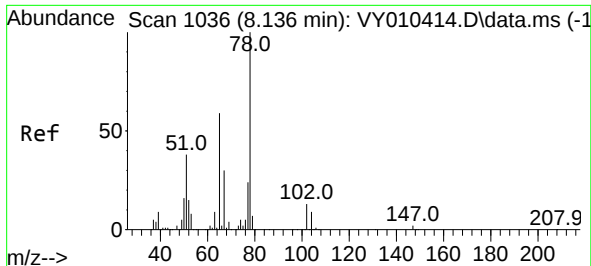
Tgt Ion: 43 Resp: 18795  
Ion Ratio Lower Upper  
43 100  
72 26.2 17.7 26.5



#31  
Cyclohexane  
Concen: 36.064 ug/l  
RT: 7.777 min Scan# 977  
Delta R.T. -0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion: 56 Resp: 127844  
Ion Ratio Lower Upper  
56 100  
69 32.8 26.7 40.1  
84 94.2 67.2 100.8





#33

1,2-Dichloroethane-d4

Concen: 50.637 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY010540.D

Acq: 16 Sep 2022 17:14

Instrument :

MSVOA\_Y

ClientSampleId :

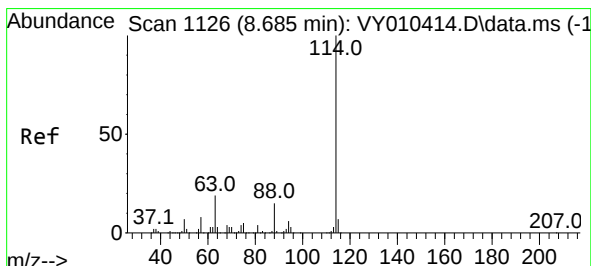
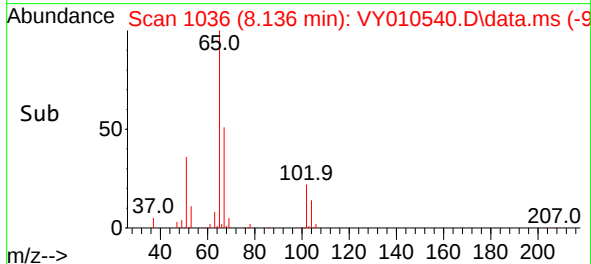
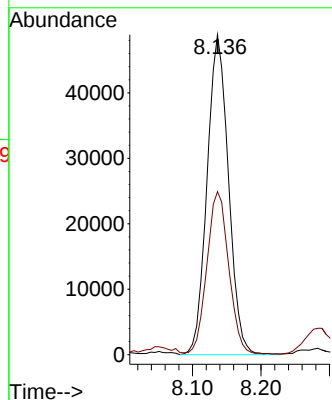
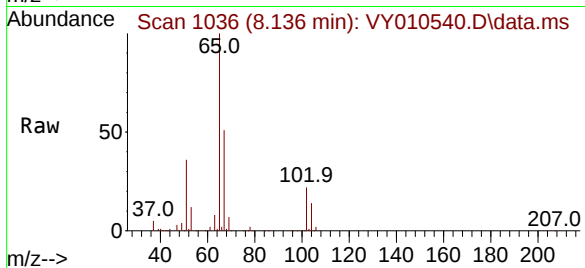
WC-17-4-3

Tgt Ion: 65 Resp: 106255

Ion Ratio Lower Upper

65 100

67 51.7 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY010540.D

Acq: 16 Sep 2022 17:14

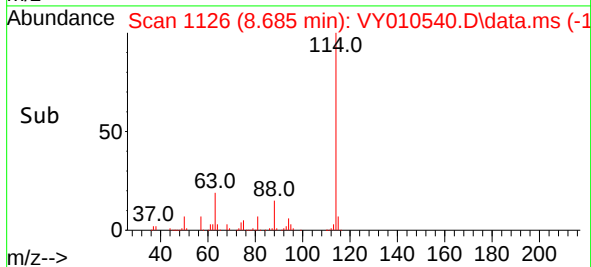
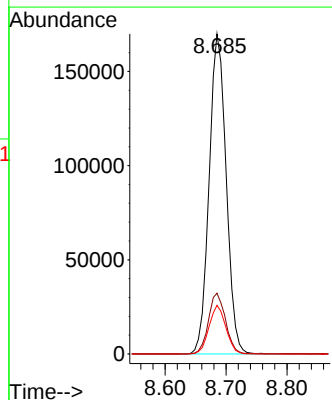
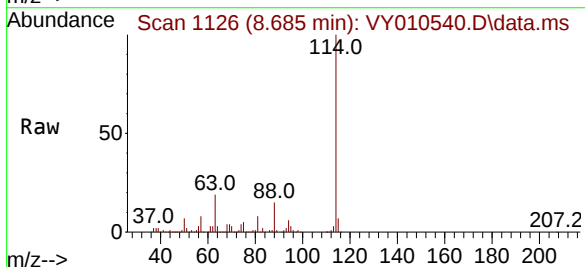
Tgt Ion: 114 Resp: 330328

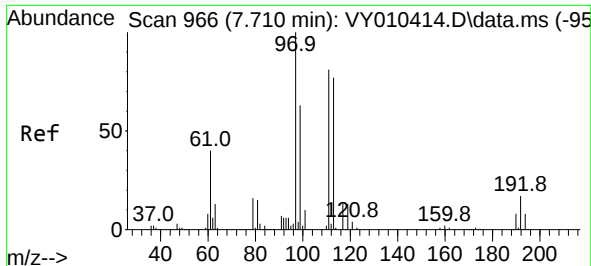
Ion Ratio Lower Upper

114 100

63 19.0 0.0 43.2

88 15.2 0.0 31.8

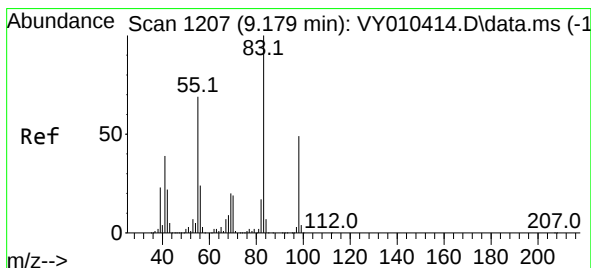
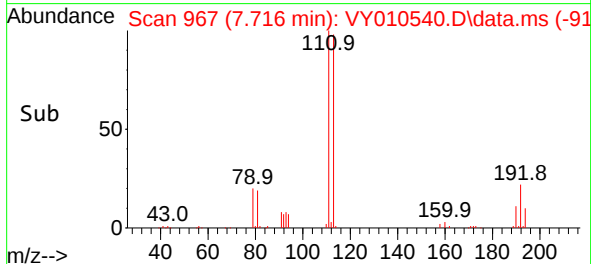
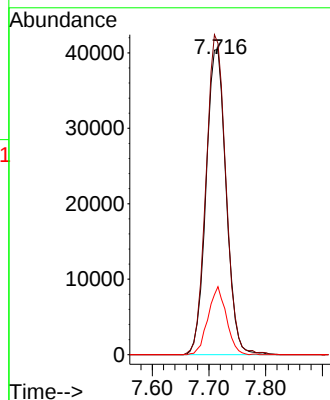
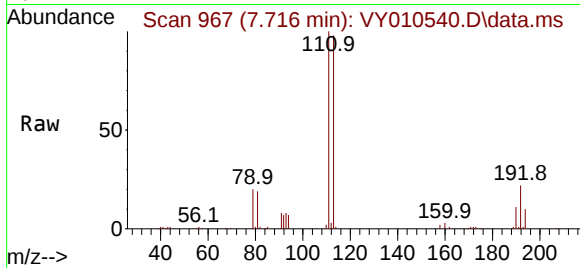




#35  
Dibromofluoromethane  
Concen: 42.375 ug/l  
RT: 7.716 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

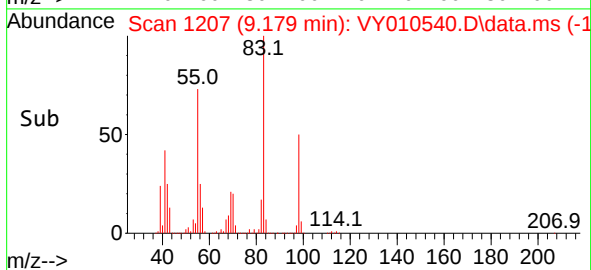
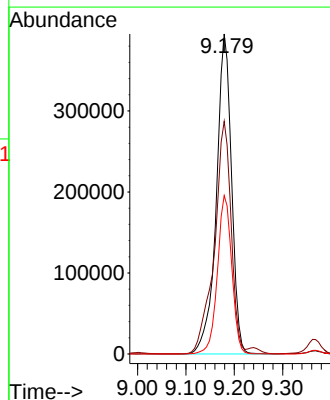
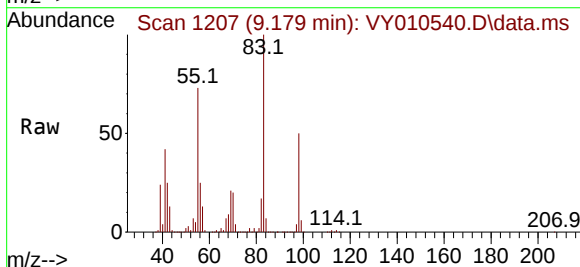
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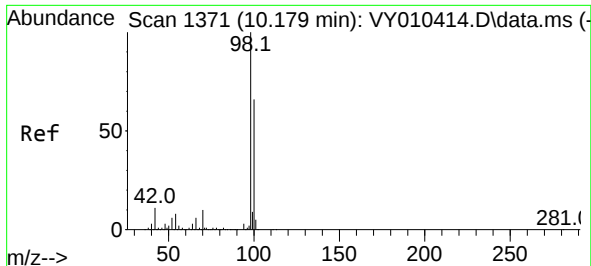
Tgt Ion:113 Resp: 99413  
Ion Ratio Lower Upper  
113 100  
111 103.7 82.6 124.0  
192 20.4 17.6 26.4



#39  
Methylcyclohexane  
Concen: 215.743 ug/l  
RT: 9.179 min Scan# 1207  
Delta R.T. -0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion: 83 Resp: 863971  
Ion Ratio Lower Upper  
83 100  
55 72.6 66.5 99.7  
98 49.5 37.9 56.9

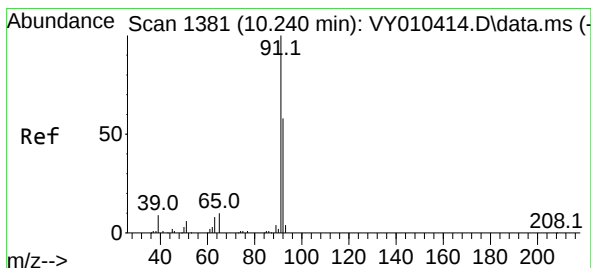
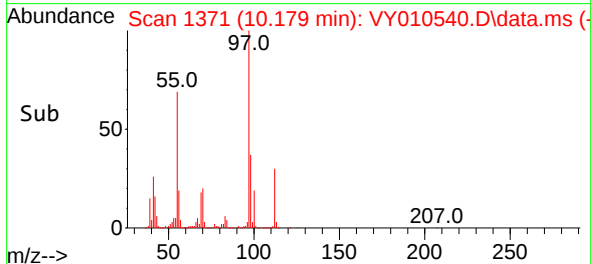
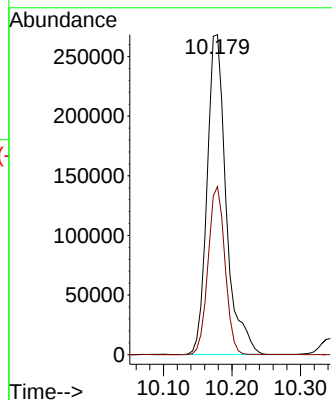
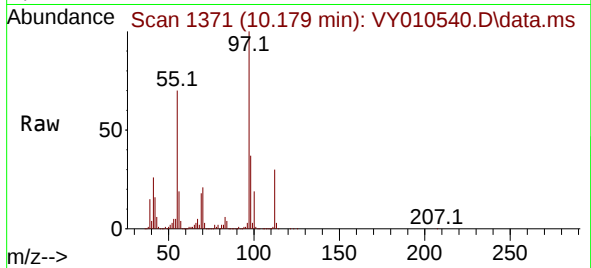




#50  
Toluene-d8  
Concen: 68.392 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

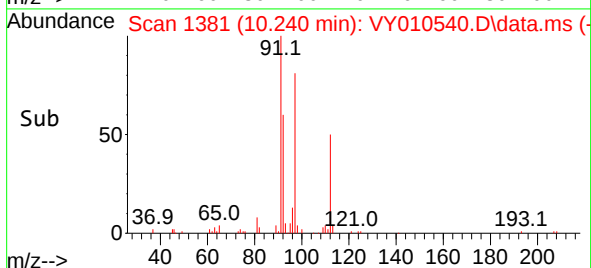
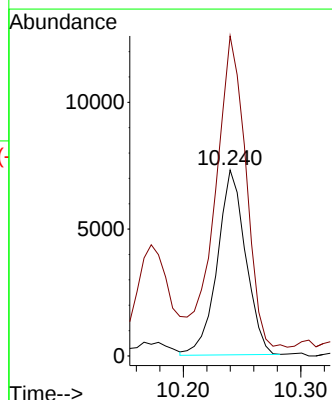
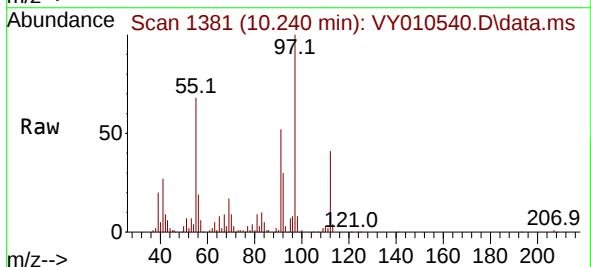
Instrument :  
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WC-17-4-3

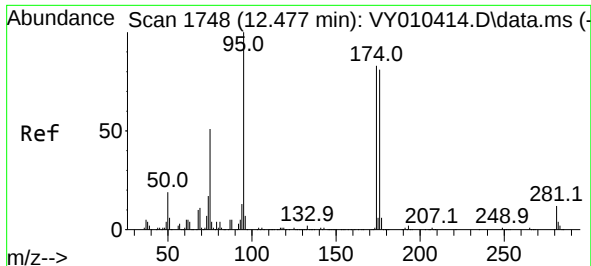
Tgt Ion: 98 Resp: 520000  
Ion Ratio Lower Upper  
98 100  
100 46.7 50.2 75.2#



#52  
Toluene  
Concen: 2.016 ug/l  
RT: 10.240 min Scan# 1381  
Delta R.T. -0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion: 92 Resp: 12197  
Ion Ratio Lower Upper  
92 100  
91 183.5 142.6 213.8





#62

4-Bromofluorobenzene

Concen: 136.397 ug/l

RT: 12.477 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY010540.D

Acq: 16 Sep 2022 17:14

Instrument :

MSVOA\_Y

ClientSampleId :

WC-17-4-3

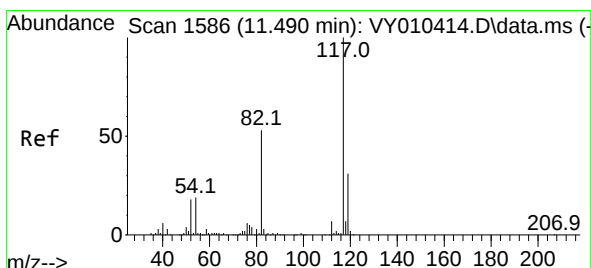
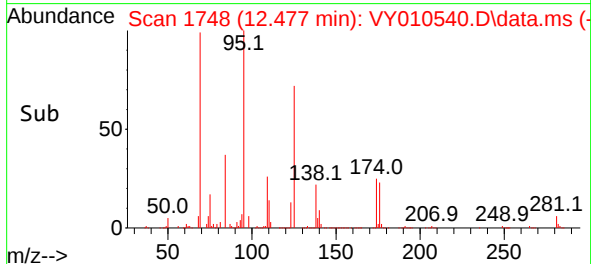
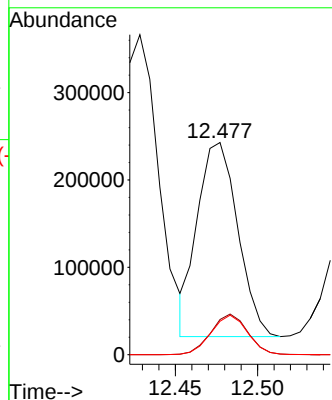
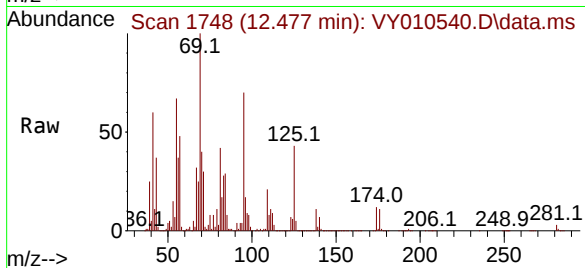
Tgt Ion: 95 Resp: 379016

Ion Ratio Lower Upper

95 100

174 19.2 0.0 177.0

176 18.5 0.0 175.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 1586

Delta R.T. -0.001 min

Lab File: VY010540.D

Acq: 16 Sep 2022 17:14

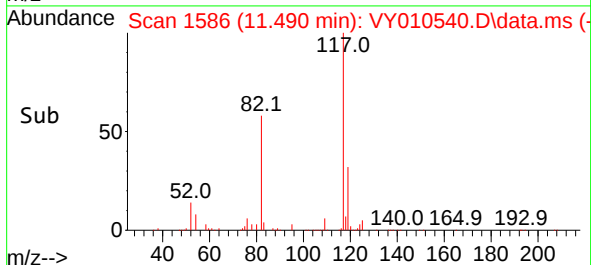
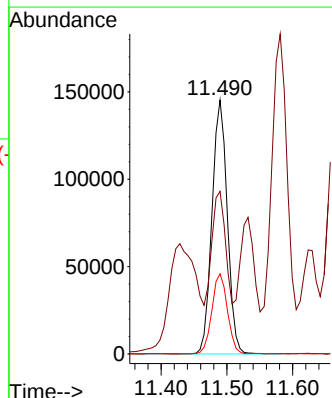
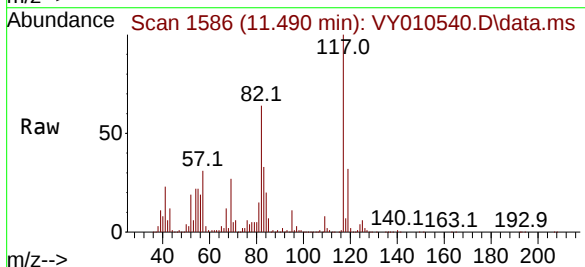
Tgt Ion: 117 Resp: 235194

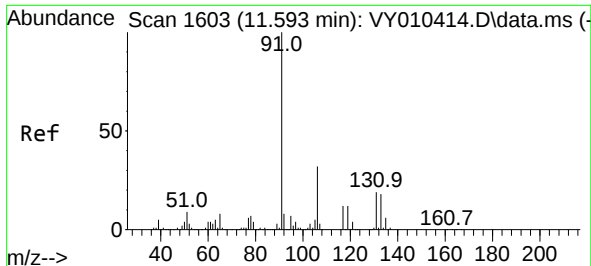
Ion Ratio Lower Upper

117 100

82 20.6 43.0 64.4#

119 31.5 25.4 38.0

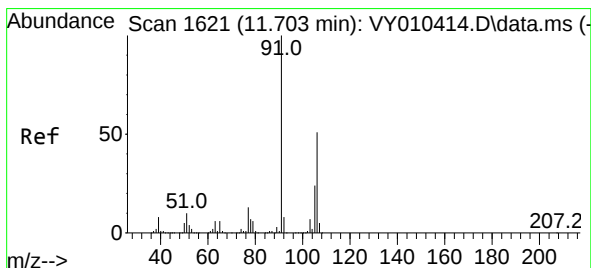
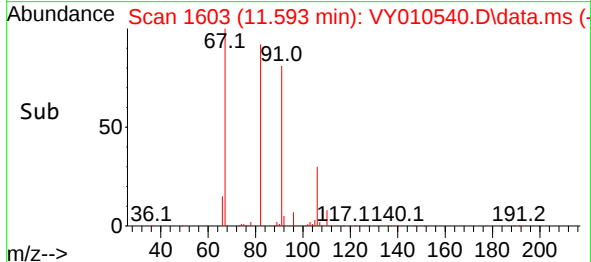
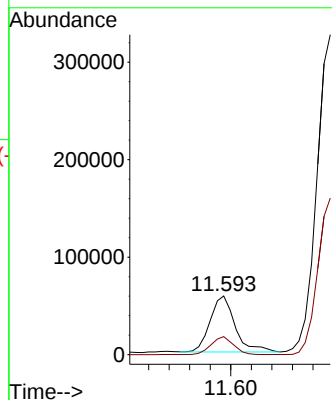
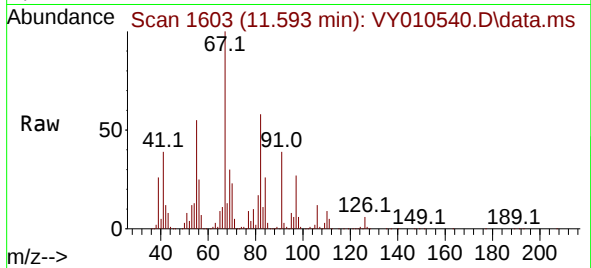




#67  
Ethyl Benzene  
Concen: 10.364 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. 0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

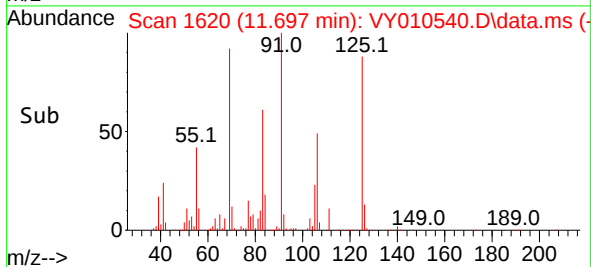
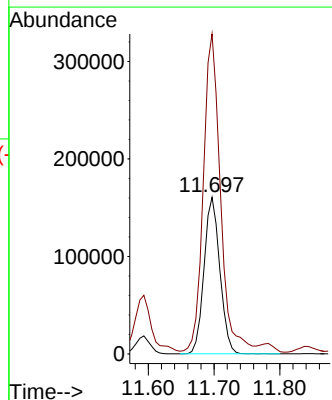
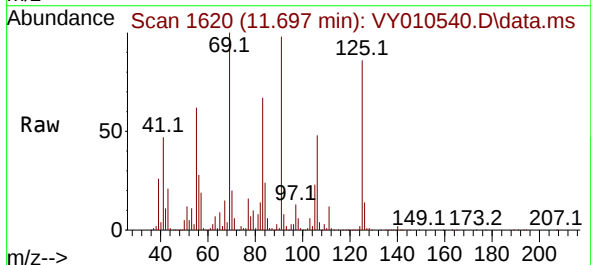
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-17-4-3

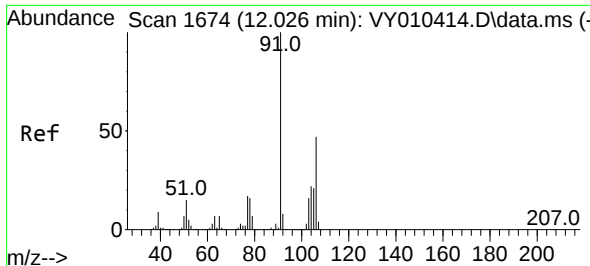
Tgt Ion: 91 Resp: 96480  
Ion Ratio Lower Upper  
91 100  
106 32.2 24.5 36.7



#68  
m/p-Xylenes  
Concen: 73.373 ug/l  
RT: 11.697 min Scan# 1620  
Delta R.T. -0.006 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion: 106 Resp: 268150  
Ion Ratio Lower Upper  
106 100  
91 217.7 166.6 249.8

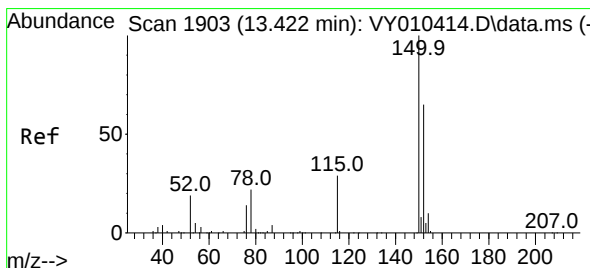
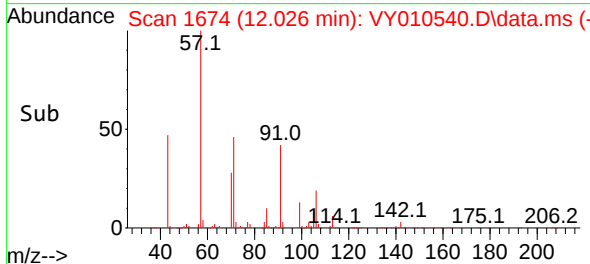
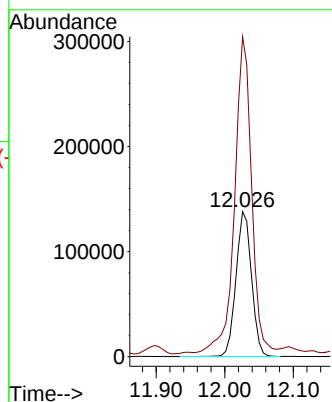
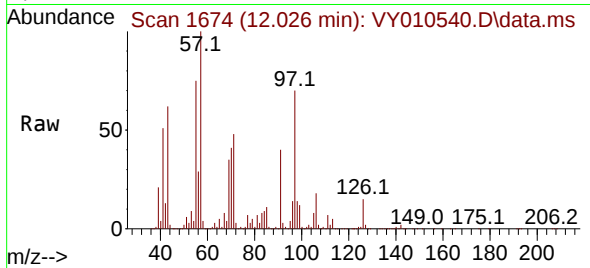




#69  
o-Xylene  
Concen: 62.259 ug/l  
RT: 12.026 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

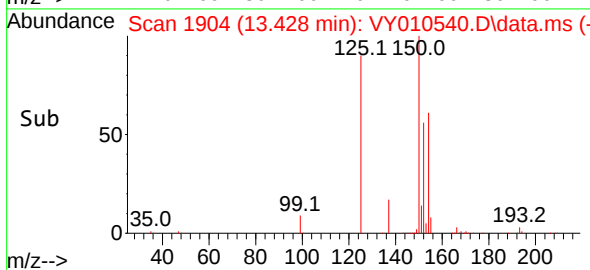
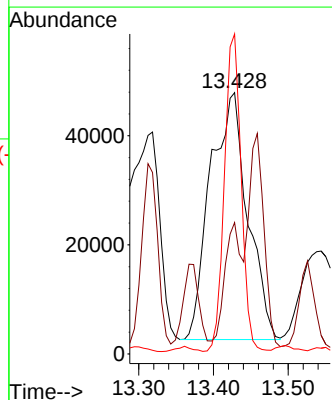
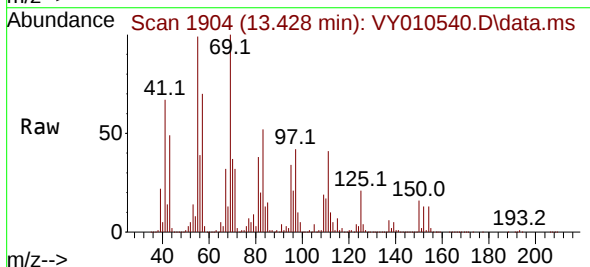
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-17-4-3

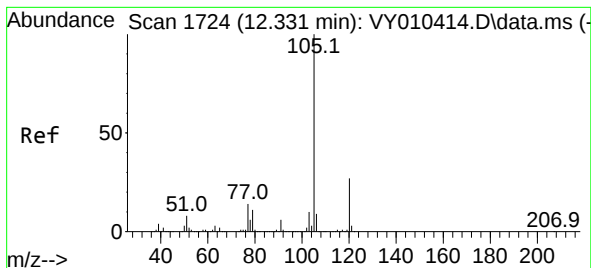
Tgt Ion:106 Resp: 217258  
Ion Ratio Lower Upper  
106 100  
91 240.4 110.3 331.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.006 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion:152 Resp: 157566  
Ion Ratio Lower Upper  
152 100  
115 21.5 28.2 84.7#  
150 57.6 0.0 347.6





#73

Isopropylbenzene

Concen: 70.214 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. -0.000 min

Lab File: VY010540.D

Acq: 16 Sep 2022 17:14

Instrument :

MSVOA\_Y

ClientSampleId :

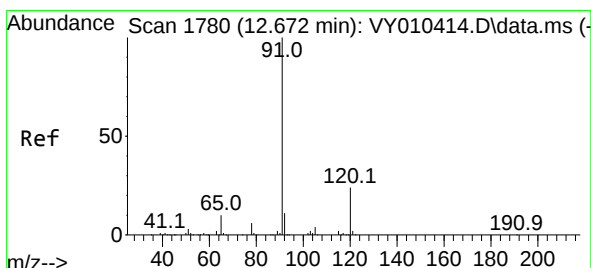
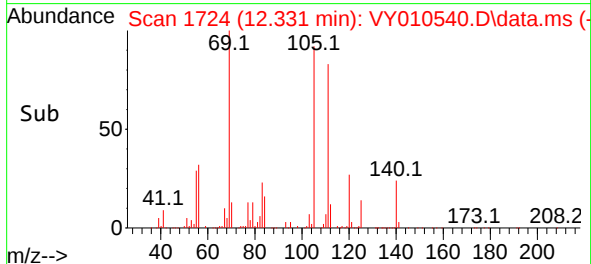
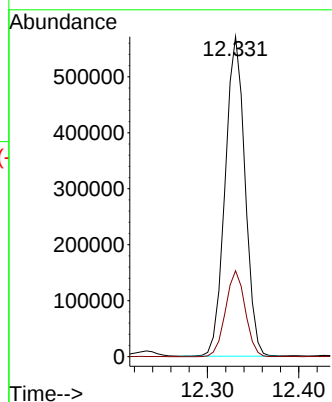
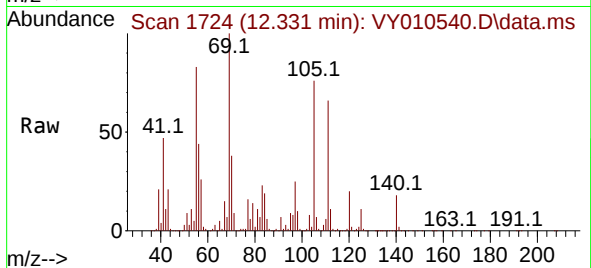
WC-17-4-3

Tgt Ion:105 Resp: 863201

Ion Ratio Lower Upper

105 100

120 26.6 13.4 40.2



#78

n-propylbenzene

Concen: 70.649 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.000 min

Lab File: VY010540.D

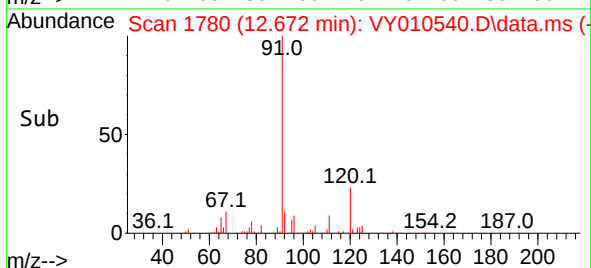
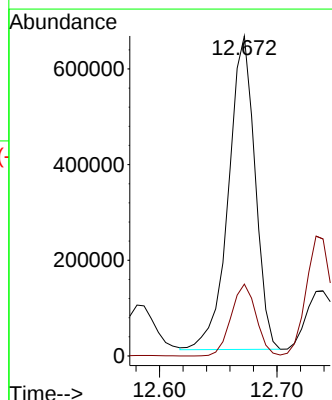
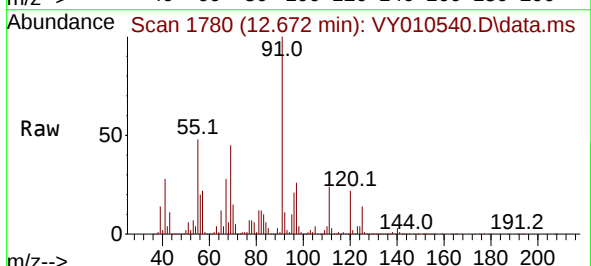
Acq: 16 Sep 2022 17:14

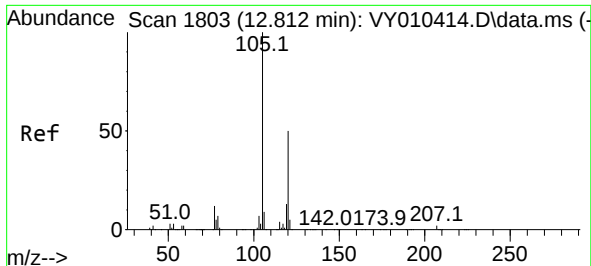
Tgt Ion: 91 Resp: 1028503

Ion Ratio Lower Upper

91 100

120 21.6 11.3 33.9

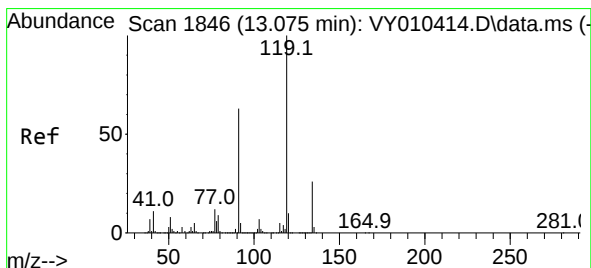
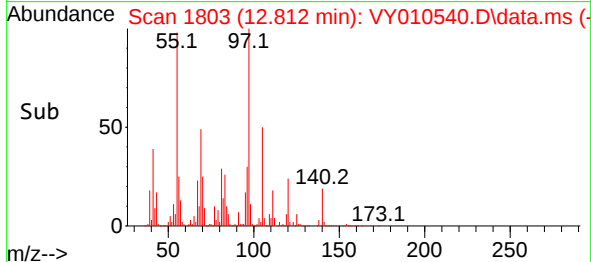
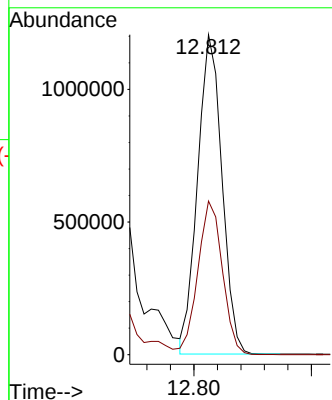
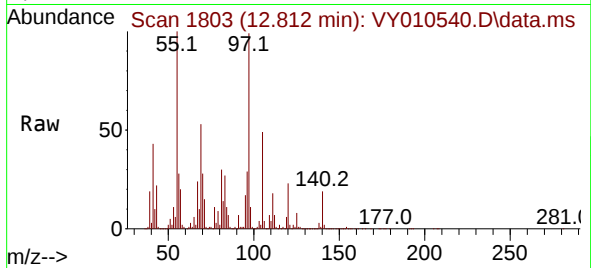




#80  
1,3,5-Trimethylbenzene  
Concen: 167.048 ug/l  
RT: 12.812 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

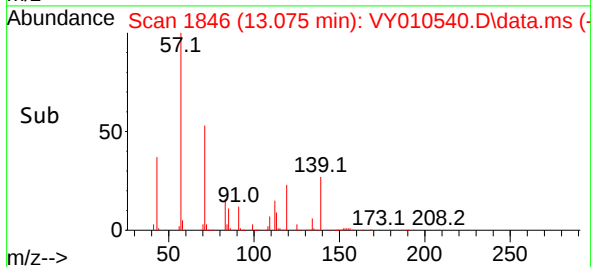
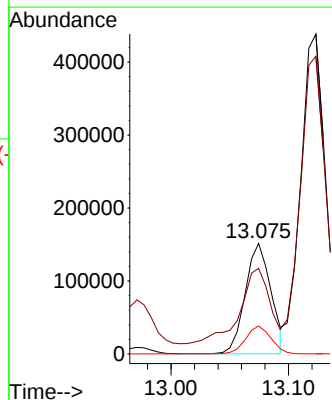
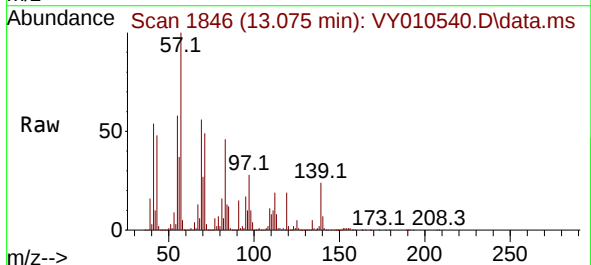
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-17-4-3

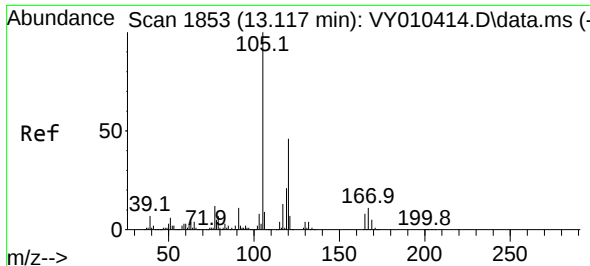
Tgt Ion:105 Resp: 1732772  
Ion Ratio Lower Upper  
105 100  
120 48.7 24.4 73.4



#83  
tert-Butylbenzene  
Concen: 25.341 ug/l  
RT: 13.075 min Scan# 1846  
Delta R.T. -0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion:119 Resp: 229756  
Ion Ratio Lower Upper  
119 100  
91 79.0 34.8 104.4  
134 25.2 13.3 39.9

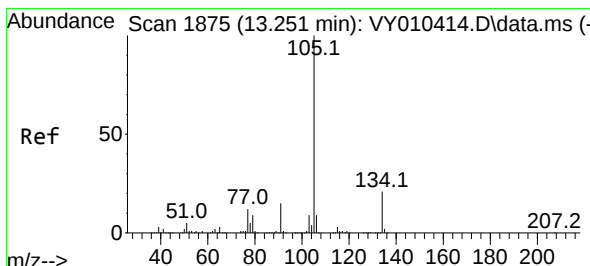
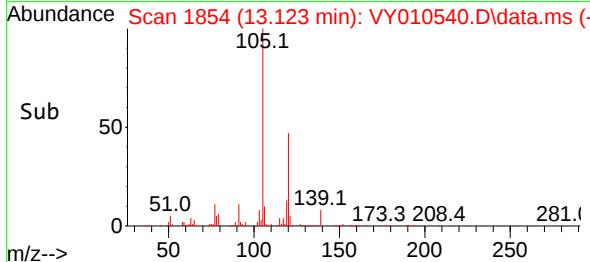
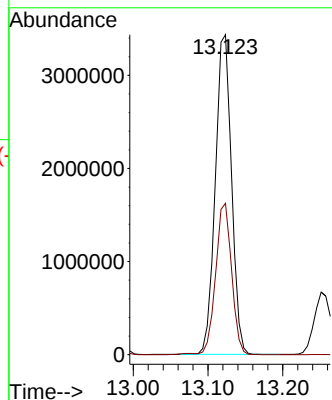
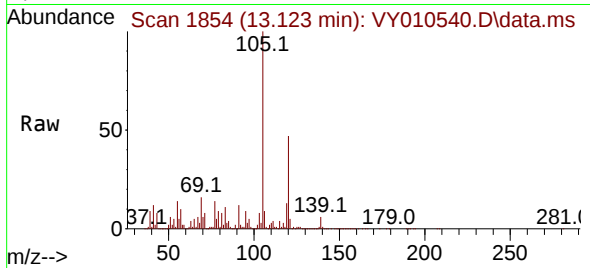




#84  
1,2,4-Trimethylbenzene  
Concen: 510.726 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

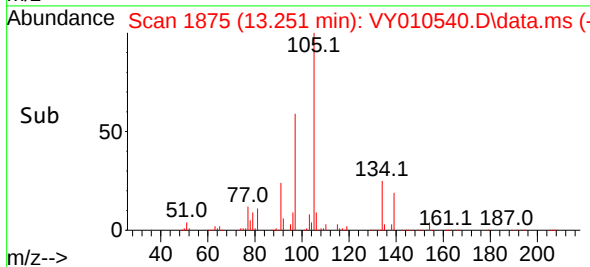
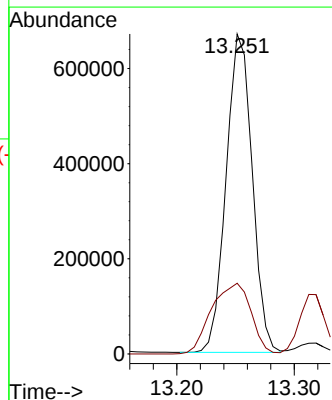
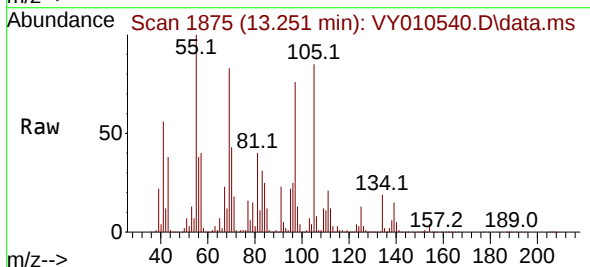
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-17-4-3

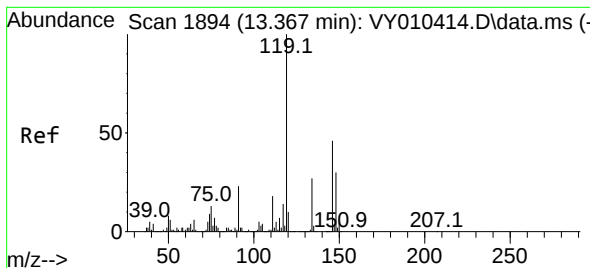
Tgt Ion:105 Resp: 5183598  
Ion Ratio Lower Upper  
105 100  
120 46.9 22.3 66.9



#85  
sec-Butylbenzene  
Concen: 76.924 ug/l  
RT: 13.251 min Scan# 1875  
Delta R.T. 0.000 min  
Lab File: VY010540.D  
Acq: 16 Sep 2022 17:14

Tgt Ion:105 Resp: 1032698  
Ion Ratio Lower Upper  
105 100  
134 33.5 10.2 30.4#





#86

p-Isopropyltoluene

Concen: 26.681 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY010540.D

Acq: 16 Sep 2022 17:14

Instrument :

MSVOA\_Y

ClientSampleId :

WC-17-4-3

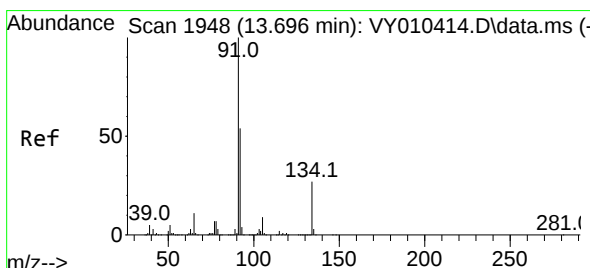
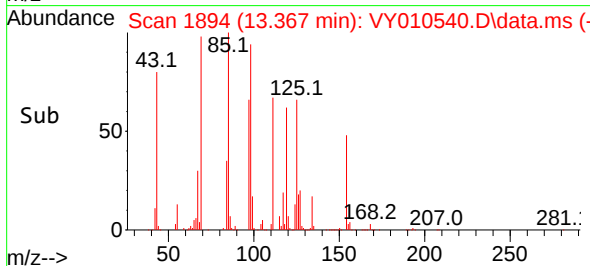
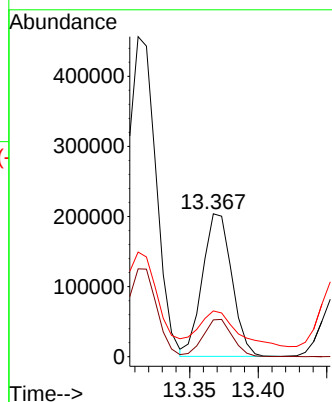
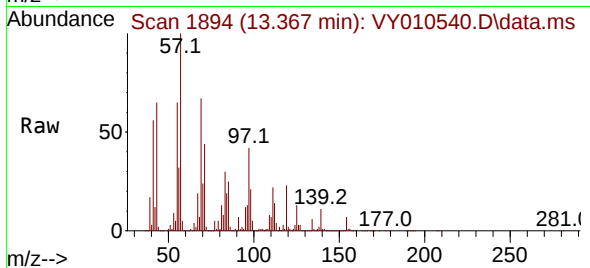
Tgt Ion:119 Resp: 302977

Ion Ratio Lower Upper

119 100

134 25.9 13.2 39.5

91 31.6 12.4 37.2



#89

n-Butylbenzene

Concen: 61.820 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY010540.D

Acq: 16 Sep 2022 17:14

Tgt Ion: 91 Resp: 637224

Ion Ratio Lower Upper

91 100

92 43.0 26.3 78.9

134 0.0 13.0 38.9#

