

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022222\  
 Data File : VY007581.D  
 Acq On : 22 Feb 2022 14:32  
 Operator : SY/MD  
 Sample : N1600-08  
 Misc : 4.63g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 C0AA9

Quant Time: Feb 22 14:47:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 15:25:36 2022  
 Response via : Initial Calibration

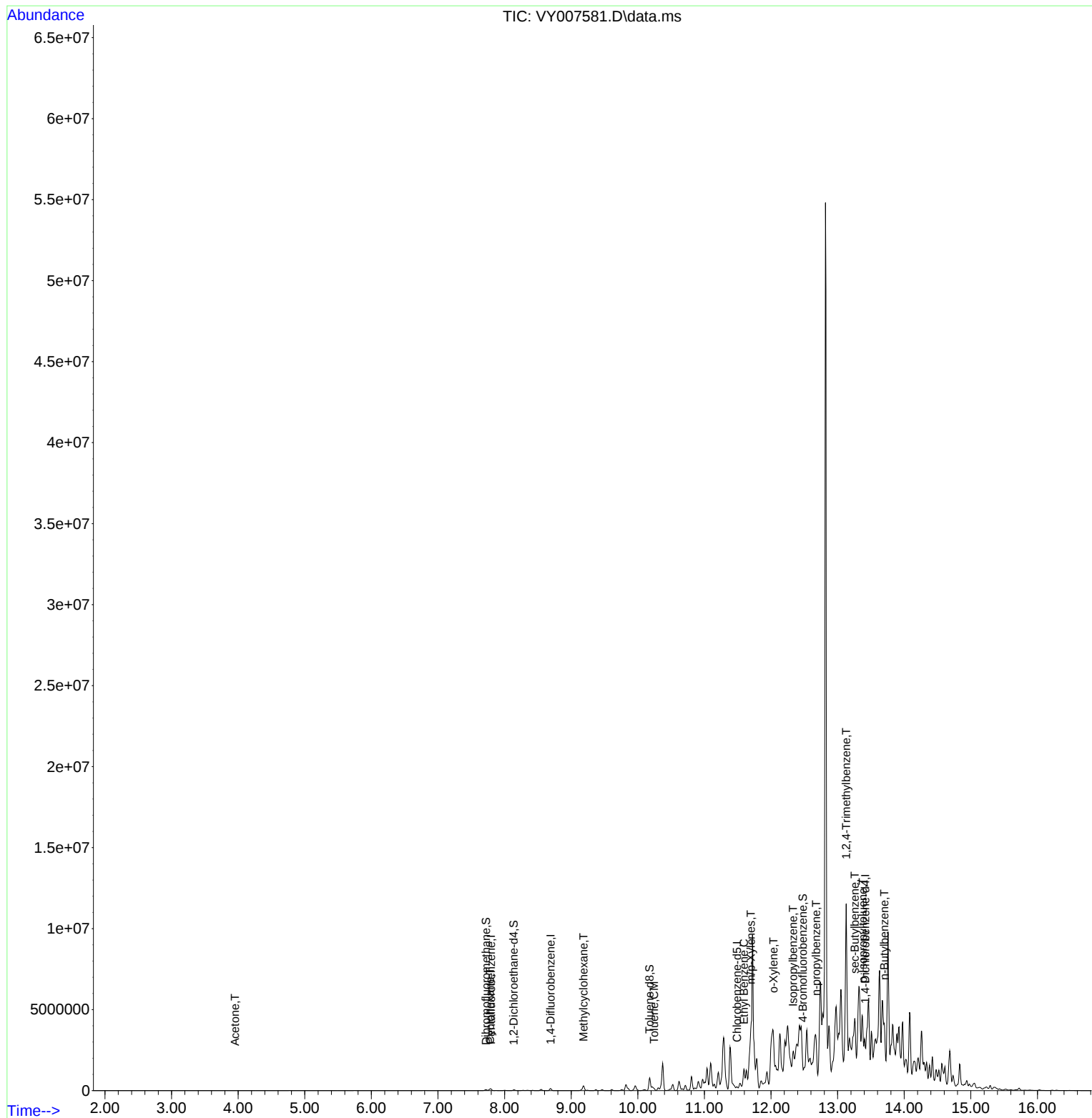
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 7.795  | 168   | 68928    | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.691  | 114   | 111392   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.490 | 117   | 62966    | 50.00    | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4  | 13.416 | 152   | 35388    | 50.00    | ug/l   | # 0.00   |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 40707    | 57.02    | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =      | 114.04%  |
| 35) Dibromofluoromethane    | 7.722  | 113   | 39165    | 55.45    | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =      | 110.90%  |
| 50) Toluene-d8              | 10.179 | 98    | 139542   | 56.98    | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =      | 113.96%  |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 85881    | 96.85    | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =      | 193.70%# |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 16) Acetone                 | 3.954  | 43    | 2172     | 12.90    | ug/l   | 97       |
| 31) Cyclohexane             | 7.783  | 56    | 14594    | 12.84    | ug/l # | 77       |
| 39) Methylcyclohexane       | 9.185  | 83    | 126812   | 97.29    | ug/l # | 79       |
| 52) Toluene                 | 10.246 | 92    | 49563    | 26.15    | ug/l   | 95       |
| 67) Ethyl Benzene           | 11.593 | 91    | 627614   | 268.30   | ug/l   | 99       |
| 68) m/p-Xylenes             | 11.697 | 106   | 460437   | 516.96   | ug/l   | 74       |
| 69) o-Xylene                | 12.038 | 106   | 409071   | 481.62   | ug/l   | 81       |
| 73) Isopropylbenzene        | 12.331 | 105   | 414091   | 147.83   | ug/l   | 99       |
| 78) n-propylbenzene         | 12.678 | 91    | 1401309  | 429.16   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.129 | 105   | 4482482  | 1942.24  | ug/l   | 89       |
| 85) sec-Butylbenzene        | 13.257 | 105   | 915253   | 303.17   | ug/l   | 86       |
| 86) p-Isopropyltoluene      | 13.379 | 119   | 472910   | 186.01   | ug/l # | 86       |
| 89) n-Butylbenzene          | 13.703 | 91    | 1548324  | 666.79   | ug/l # | 67       |
| -----                       |        |       |          |          |        |          |

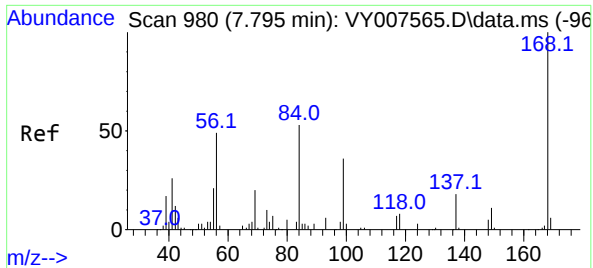
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022222\  
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Sample : N1600-08  
Misc : 4.63g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
C0AA9

Quant Time: Feb 22 14:47:17 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 21 15:25:36 2022  
Response via : Initial Calibration

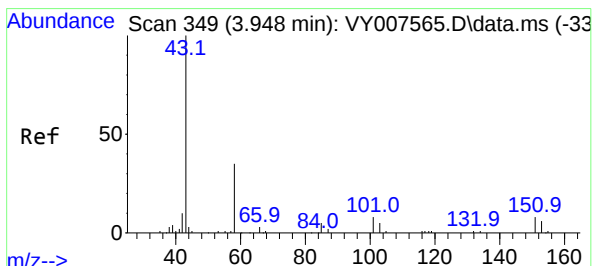
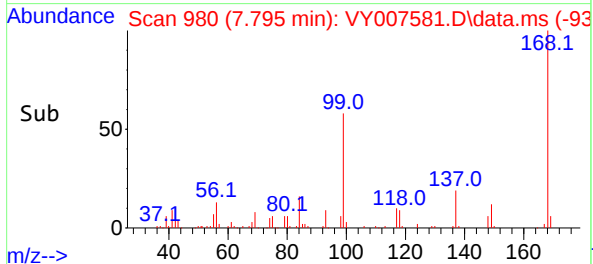
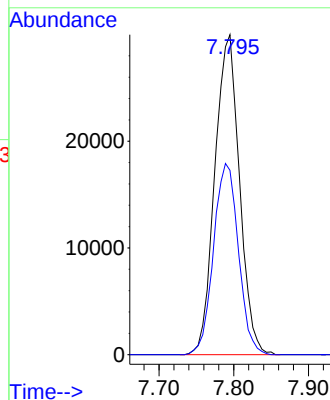
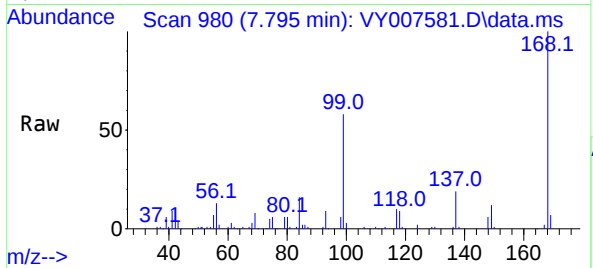




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

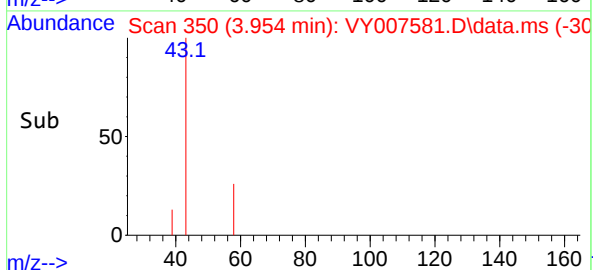
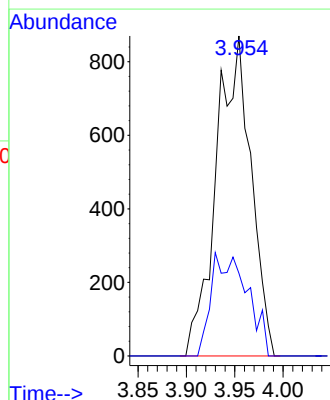
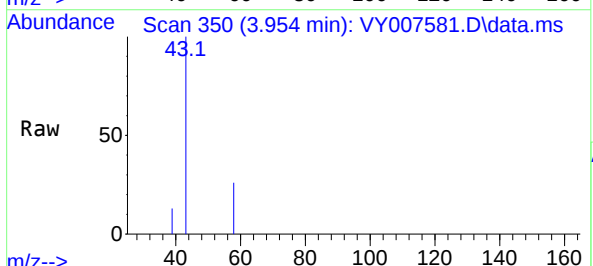
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C0AA9

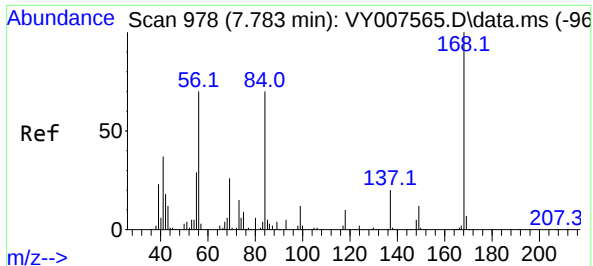
Tgt Ion:168 Resp: 68928  
Ion Ratio Lower Upper  
168 100  
99 57.6 46.9 70.3



#16  
Acetone  
Concen: 12.90 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.006 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

Tgt Ion: 43 Resp: 2172  
Ion Ratio Lower Upper  
43 100  
58 25.9 22.0 33.0





#31

Cyclohexane

Concen: 12.84 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY007581.D

Acq: 22 Feb 2022 14:32

Instrument :

MSVOA\_Y

ClientSampleId :

C0AA9

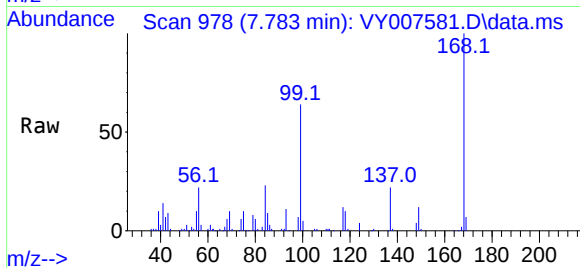
Tgt Ion: 56 Resp: 14594

Ion Ratio Lower Upper

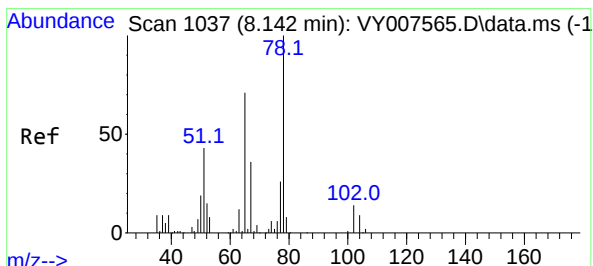
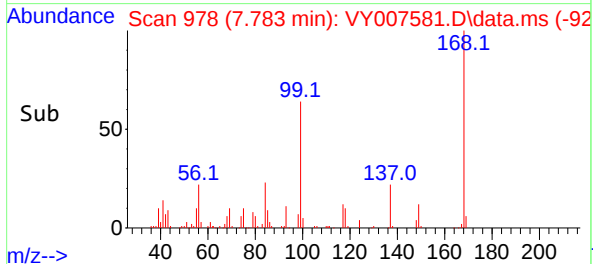
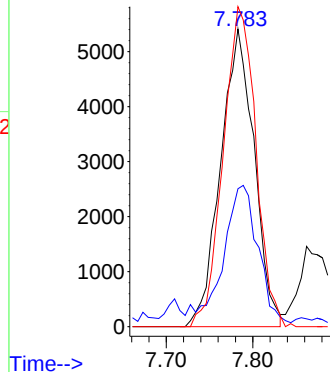
56 100

69 43.1 26.7 40.1#

84 107.5 67.2 100.8#



Abundance



#33

1,2-Dichloroethane-d4

Concen: 57.02 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. -0.006 min

Lab File: VY007581.D

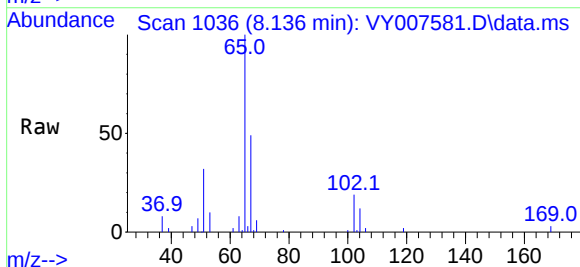
Acq: 22 Feb 2022 14:32

Tgt Ion: 65 Resp: 40707

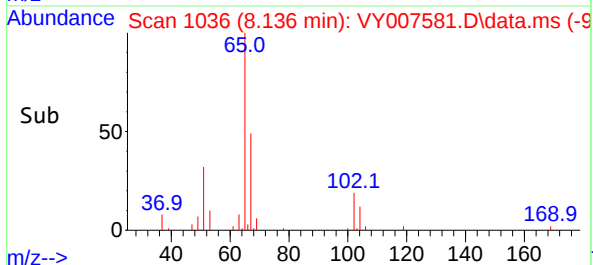
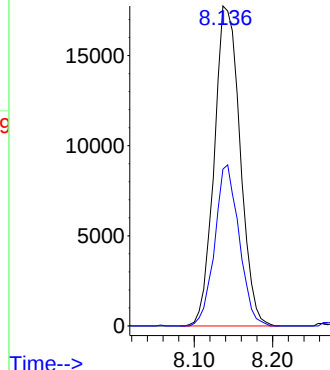
Ion Ratio Lower Upper

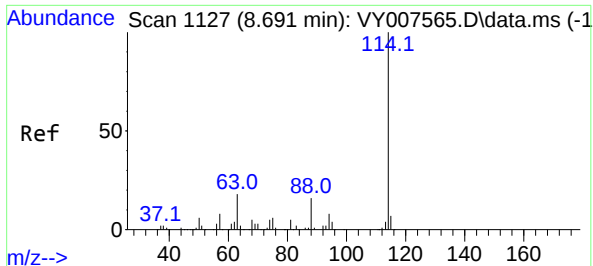
65 100

67 47.4 0.0 99.4



Abundance





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY007581.D

Acq: 22 Feb 2022 14:32

Instrument :

MSVOA\_Y

ClientSampleId :

C0AA9

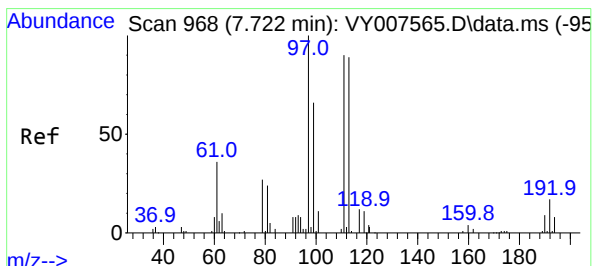
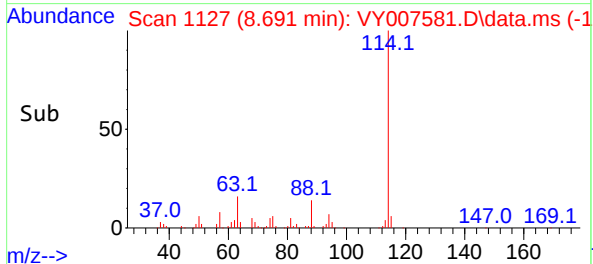
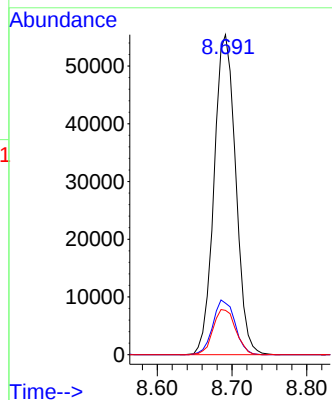
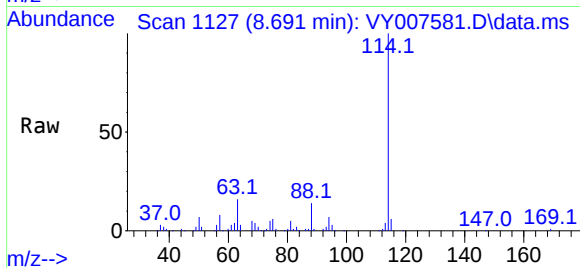
Tgt Ion:114 Resp: 111392

Ion Ratio Lower Upper

114 100

63 16.1 0.0 43.2

88 13.9 0.0 31.8



#35

Dibromofluoromethane

Concen: 55.45 ug/l

RT: 7.722 min Scan# 968

Delta R.T. -0.000 min

Lab File: VY007581.D

Acq: 22 Feb 2022 14:32

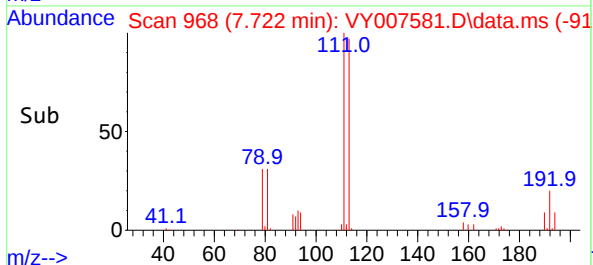
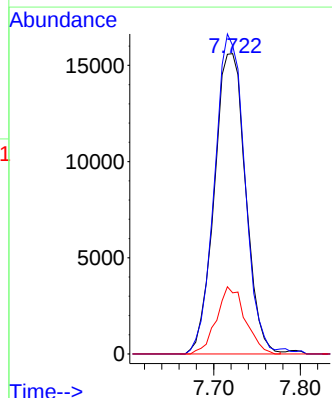
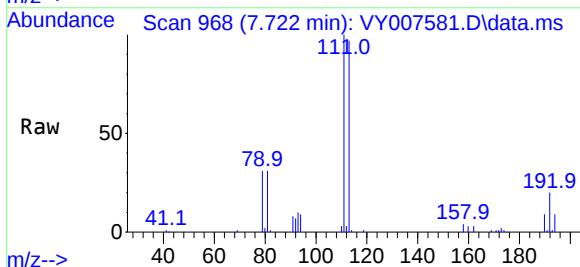
Tgt Ion:113 Resp: 39165

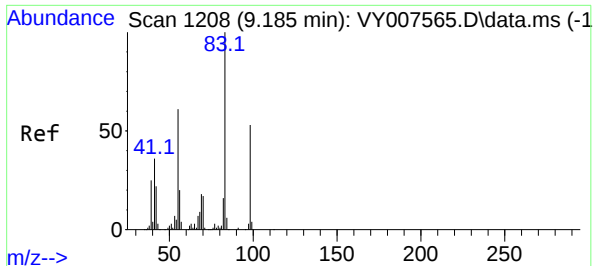
Ion Ratio Lower Upper

113 100

111 103.4 82.6 124.0

192 20.5 17.6 26.4

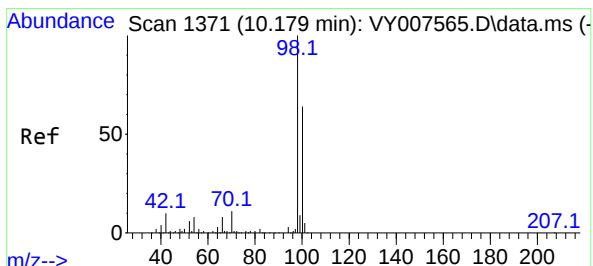
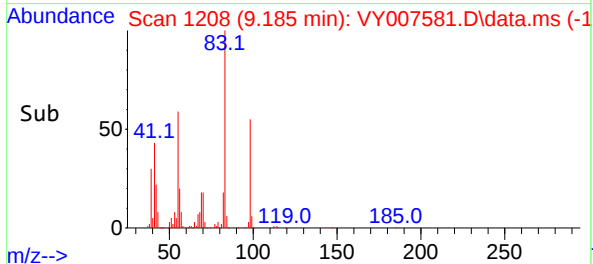
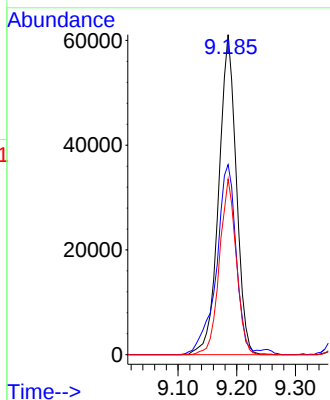
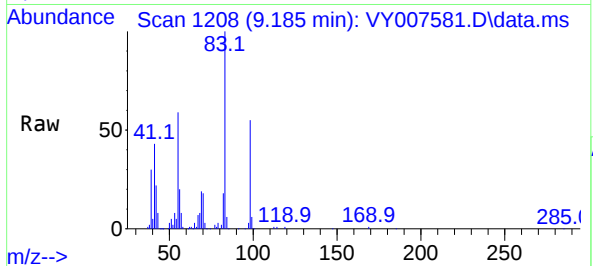




#39  
Methylcyclohexane  
Concen: 97.29 ug/l  
RT: 9.185 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

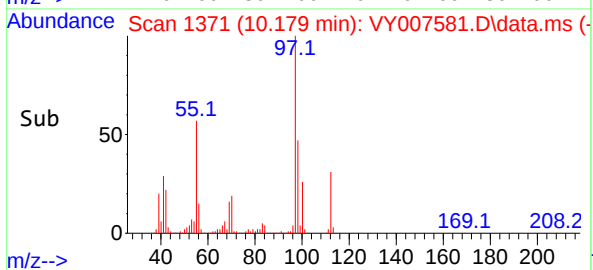
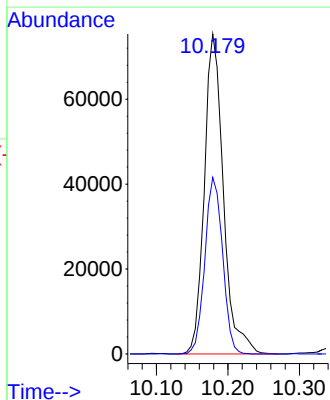
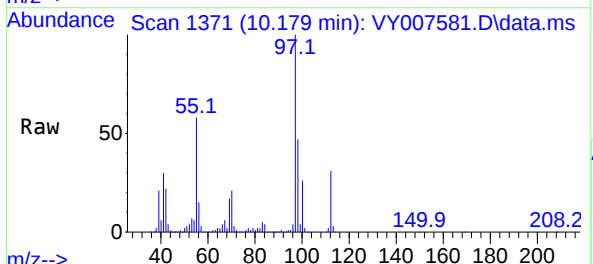
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C0AA9

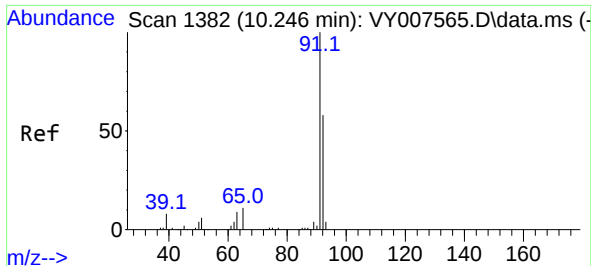
Tgt Ion: 83 Resp: 126812  
Ion Ratio Lower Upper  
83 100  
55 59.4 66.5 99.7#  
98 54.9 37.9 56.9



#50  
Toluene-d8  
Concen: 56.98 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

Tgt Ion: 98 Resp: 139542  
Ion Ratio Lower Upper  
98 100  
100 51.2 50.2 75.2

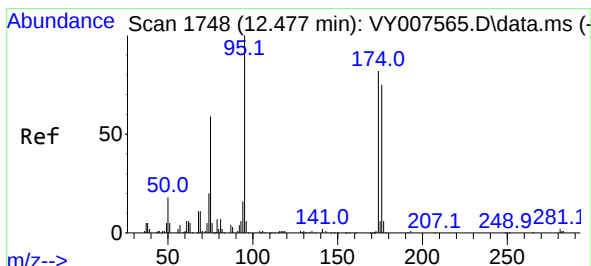
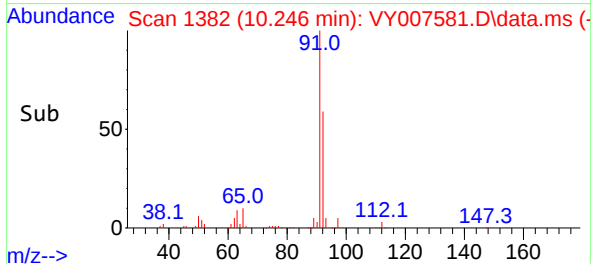
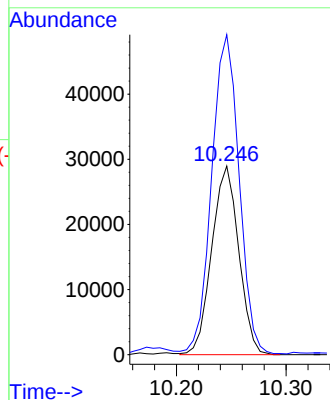
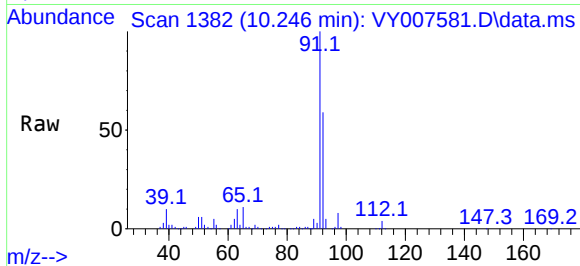




#52  
Toluene  
Concen: 26.15 ug/l  
RT: 10.246 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

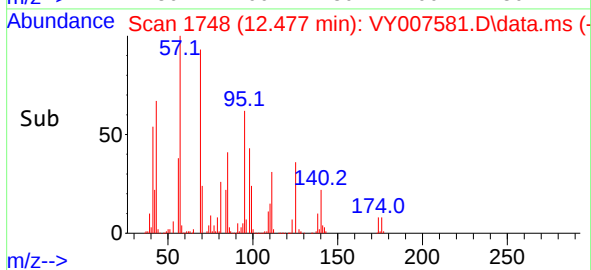
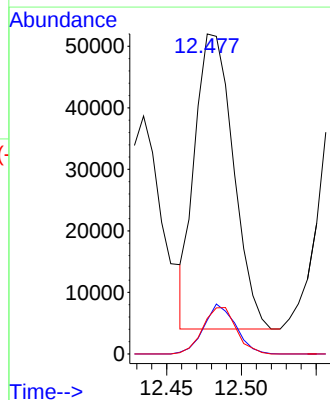
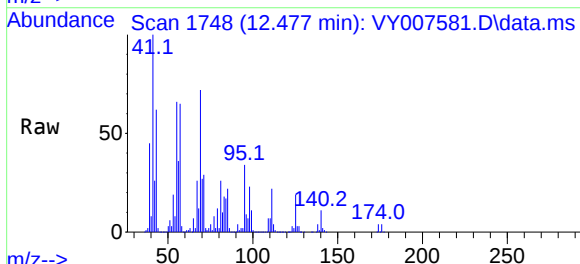
Instrument :  
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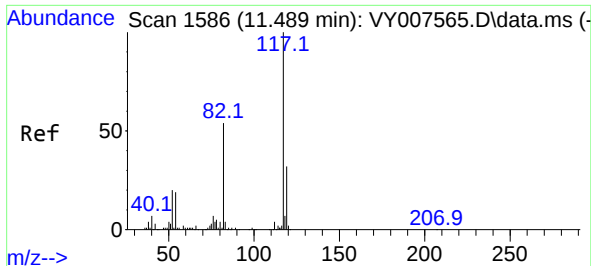
Tgt Ion: 92 Resp: 49563  
Ion Ratio Lower Upper  
92 100  
91 171.8 142.6 213.8



#62  
4-Bromofluorobenzene  
Concen: 96.85 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

Tgt Ion: 95 Resp: 85881  
Ion Ratio Lower Upper  
95 100  
174 14.0 0.0 177.0  
176 13.7 0.0 175.8

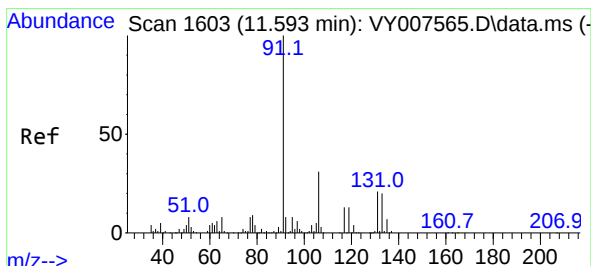
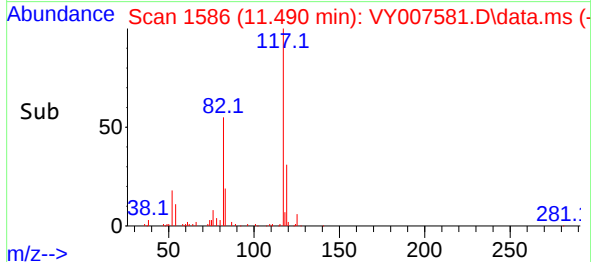
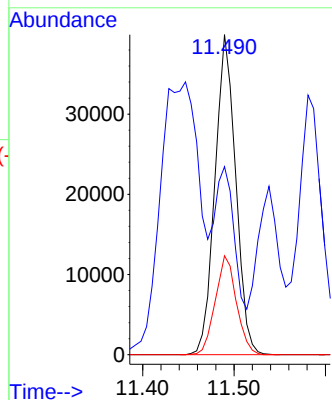
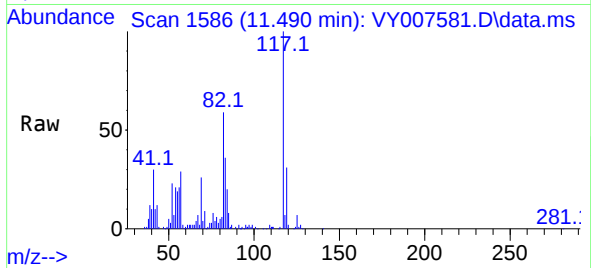




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

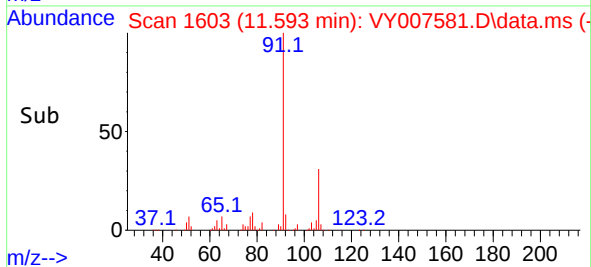
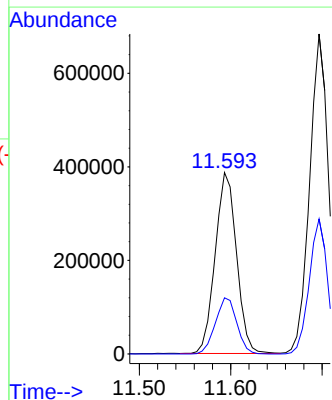
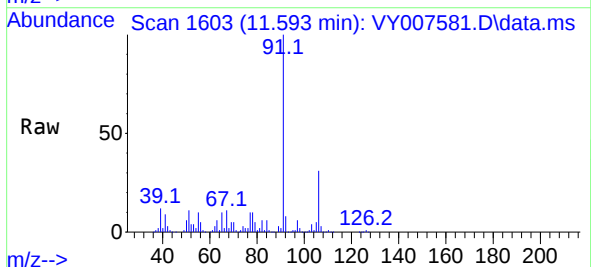
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C0AA9

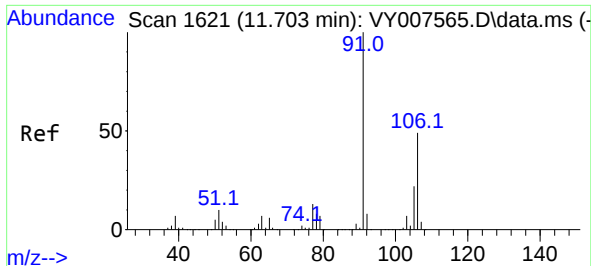
Tgt Ion:117 Resp: 62966  
Ion Ratio Lower Upper  
117 100  
82 31.5 43.0 64.4#  
119 30.9 25.4 38.0



#67  
Ethyl Benzene  
Concen: 268.30 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. 0.000 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

Tgt Ion: 91 Resp: 627614  
Ion Ratio Lower Upper  
91 100  
106 31.0 24.5 36.7

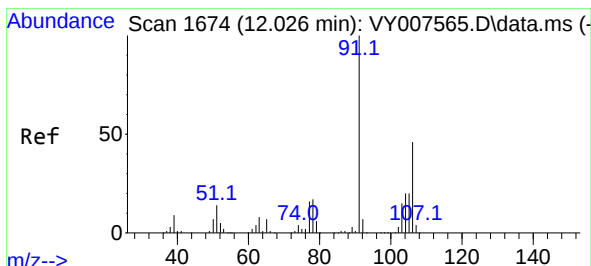
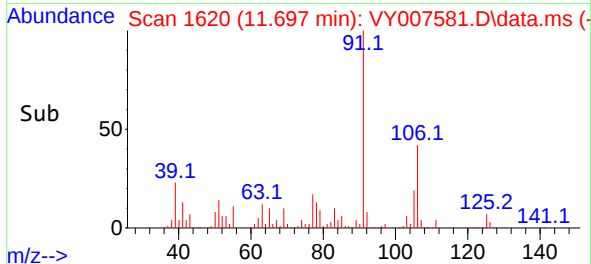
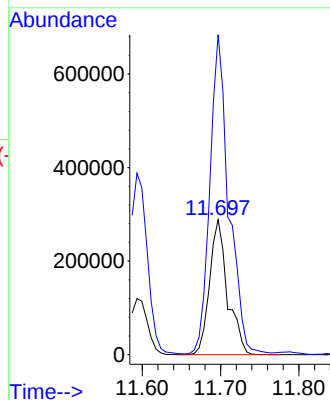
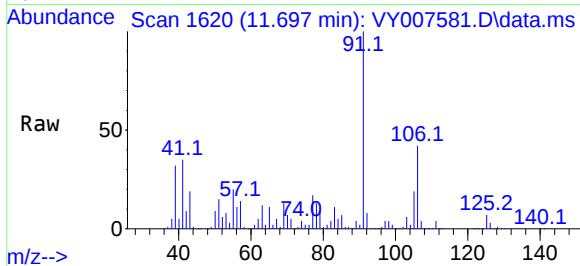




#68  
m/p-Xylenes  
Concen: 516.96 ug/l  
RT: 11.697 min Scan# 11676  
Delta R.T. -0.006 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

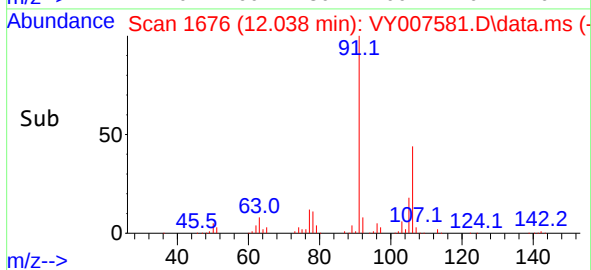
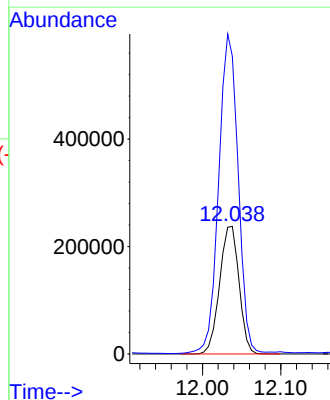
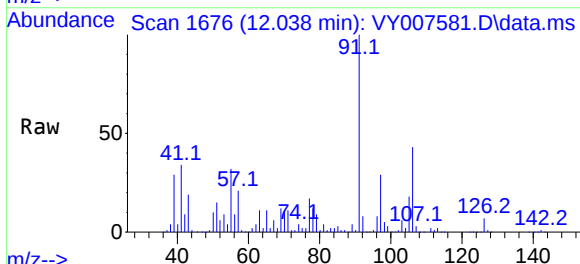
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C0AA9

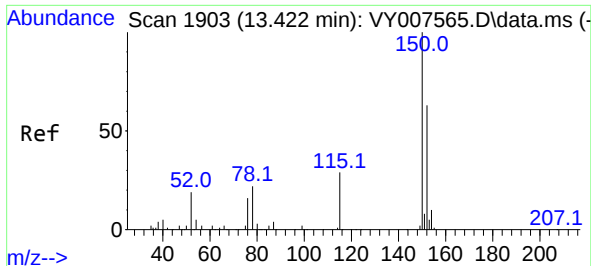
Tgt Ion:106 Resp: 460437  
Ion Ratio Lower Upper  
106 100  
91 248.1 166.6 249.8



#69  
o-Xylene  
Concen: 481.62 ug/l  
RT: 12.038 min Scan# 1676  
Delta R.T. 0.012 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

Tgt Ion:106 Resp: 409071  
Ion Ratio Lower Upper  
106 100  
91 250.9 110.3 331.0

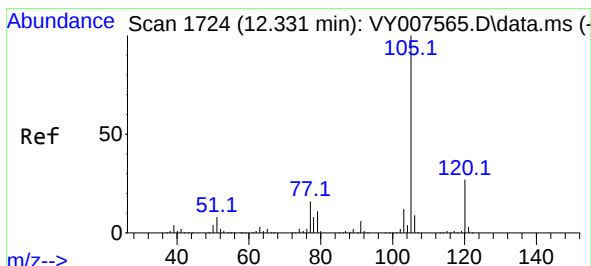
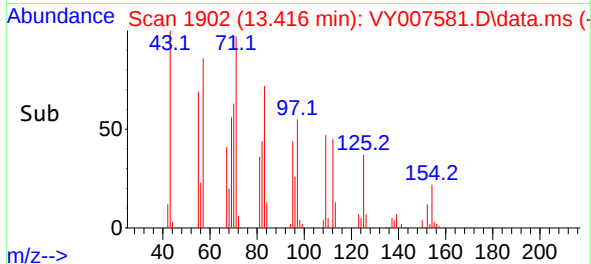
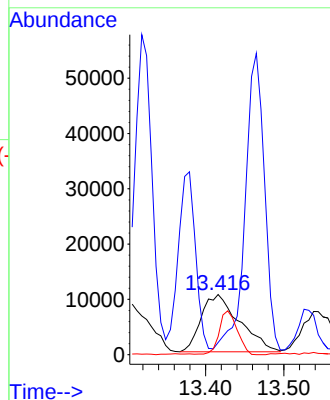
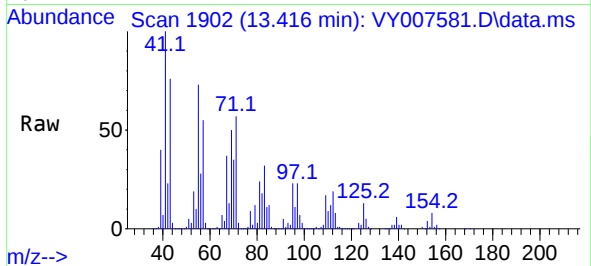




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.416 min Scan# 1902  
Delta R.T. -0.006 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

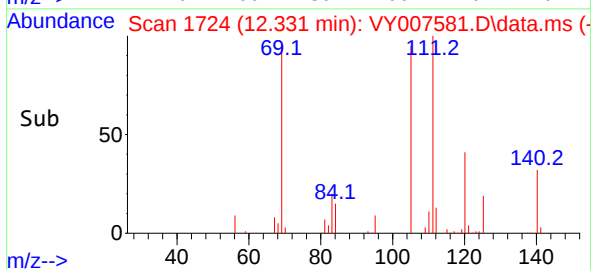
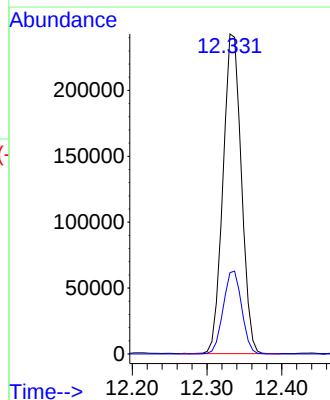
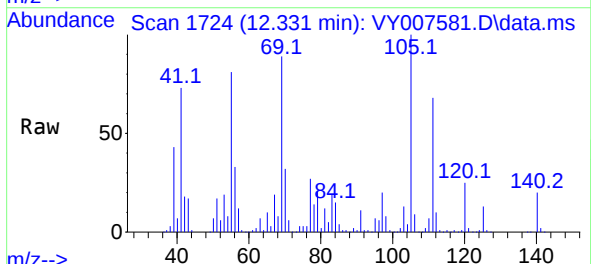
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C0AA9

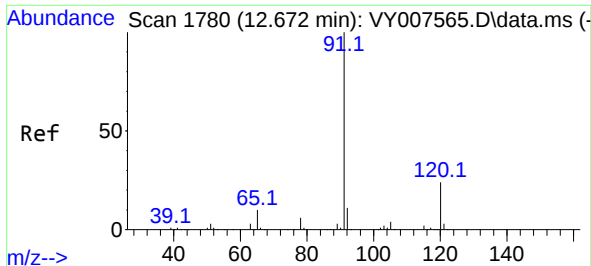
Tgt Ion:152 Resp: 35388  
Ion Ratio Lower Upper  
152 100  
115 0.0 28.2 84.7#  
150 35.9 0.0 347.6



#73  
Isopropylbenzene  
Concen: 147.83 ug/l  
RT: 12.331 min Scan# 1724  
Delta R.T. -0.000 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

Tgt Ion:105 Resp: 414091  
Ion Ratio Lower Upper  
105 100  
120 26.1 13.4 40.2

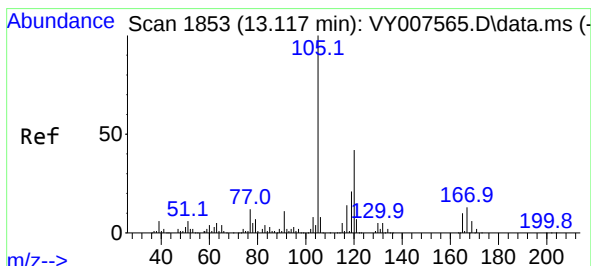
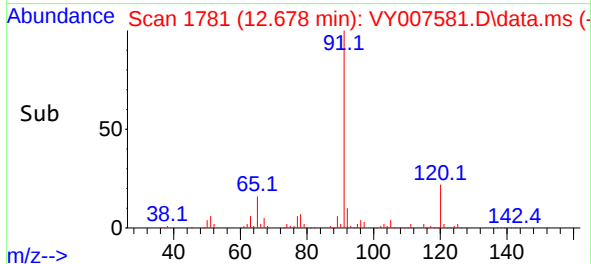
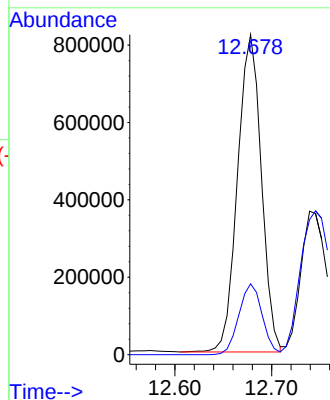
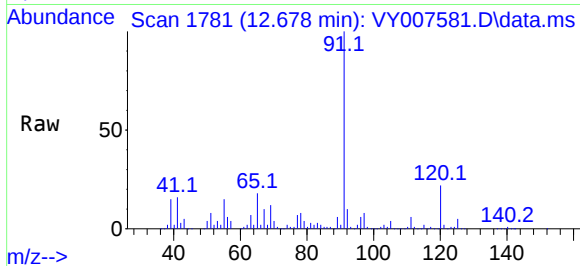




#78  
n-propylbenzene  
Concen: 429.16 ug/l  
RT: 12.678 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

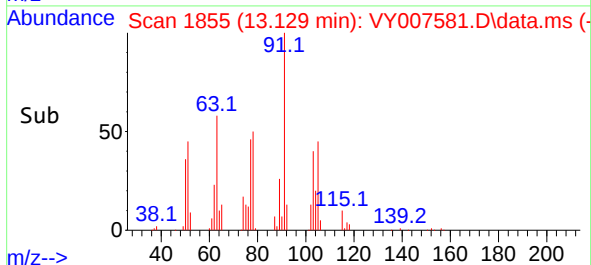
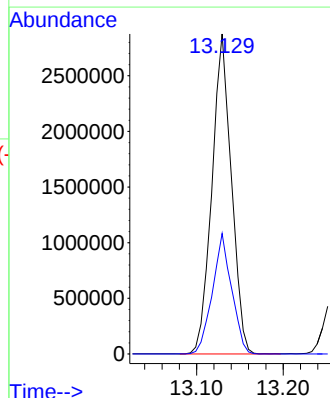
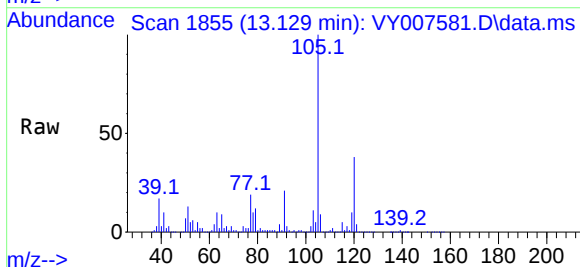
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C0AA9

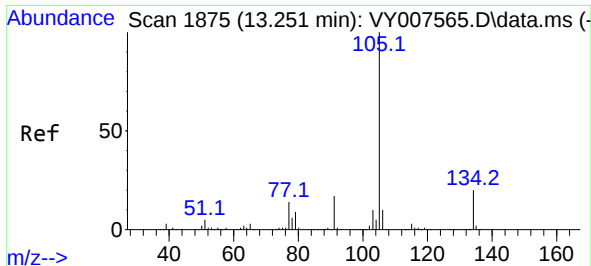
Tgt Ion: 91 Resp: 1401309  
Ion Ratio Lower Upper  
91 100  
120 22.0 11.3 33.9



#84  
1,2,4-Trimethylbenzene  
Concen: 1942.24 ug/l  
RT: 13.129 min Scan# 1855  
Delta R.T. 0.012 min  
Lab File: VY007581.D  
Acq: 22 Feb 2022 14:32

Tgt Ion: 105 Resp: 4482482  
Ion Ratio Lower Upper  
105 100  
120 37.3 22.3 66.9

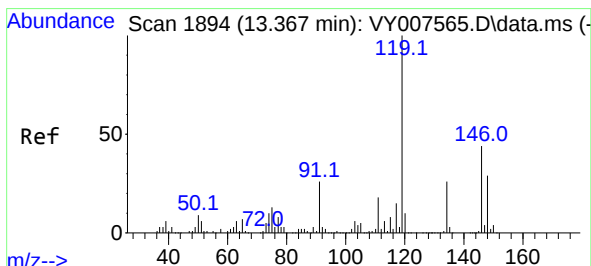
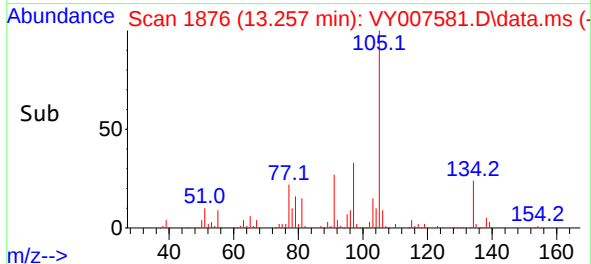
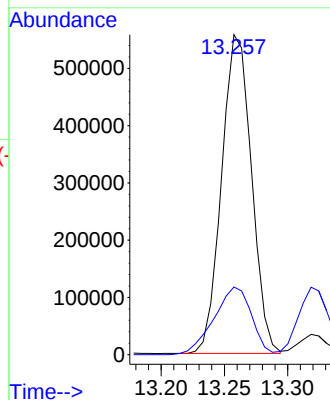
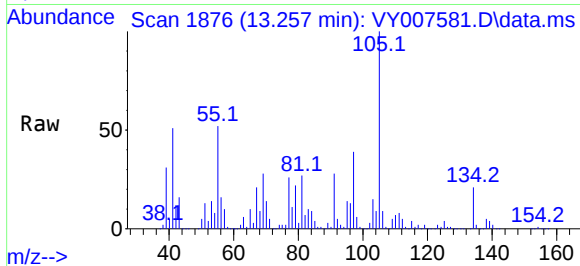




#85  
 sec-Butylbenzene  
 Concen: 303.17 ug/l  
 RT: 13.257 min Scan# 1876  
 Delta R.T. 0.006 min  
 Lab File: VY007581.D  
 Acq: 22 Feb 2022 14:32

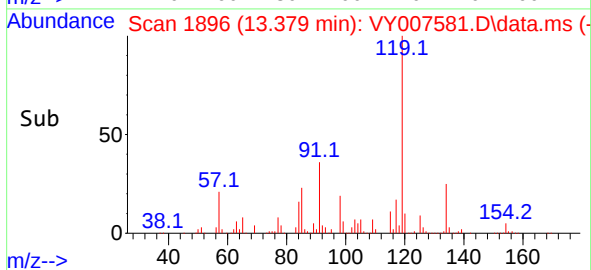
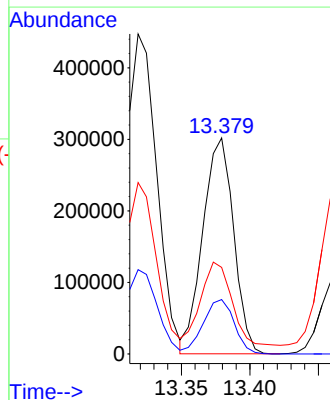
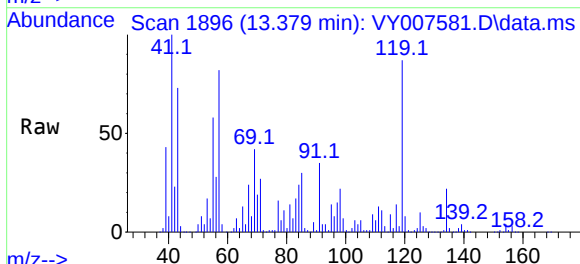
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 C0AA9

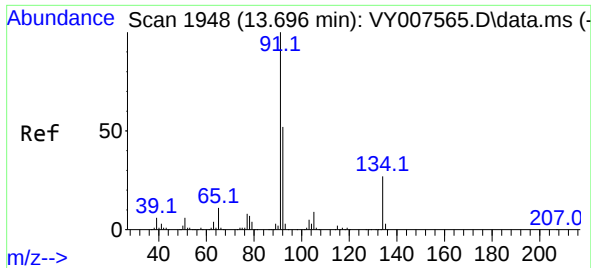
Tgt Ion:105 Resp: 915253  
 Ion Ratio Lower Upper  
 105 100  
 134 26.6 10.2 30.4



#86  
 p-Isopropyltoluene  
 Concen: 186.01 ug/l  
 RT: 13.379 min Scan# 1896  
 Delta R.T. 0.012 min  
 Lab File: VY007581.D  
 Acq: 22 Feb 2022 14:32

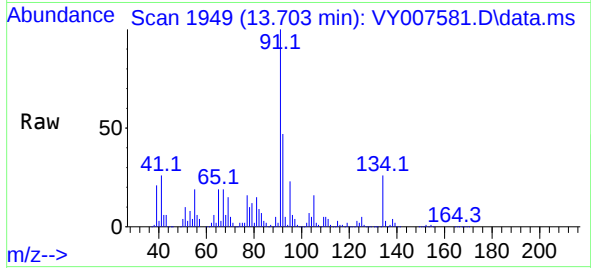
Tgt Ion:119 Resp: 472910  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 13.2 39.5  
 91 38.2 12.4 37.2#





#89  
 n-Butylbenzene  
 Concen: 666.79 ug/l  
 RT: 13.703 min Scan# 1949  
 Delta R.T. 0.007 min  
 Lab File: VY007581.D  
 Acq: 22 Feb 2022 14:32

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 C0AA9



Tgt Ion: 91 Resp: 1548324  
 Ion Ratio Lower Upper  
 91 100  
 92 35.5 26.3 78.9  
 134 0.0 13.0 38.9#

