

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081823\  
 Data File : VY015201.D  
 Acq On : 18 Aug 2023 17:23  
 Operator : SY/MD  
 Sample : 04086-13  
 Misc : 5.00g/5.2mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 B-PP17A

Quant Time: Aug 18 23:13:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

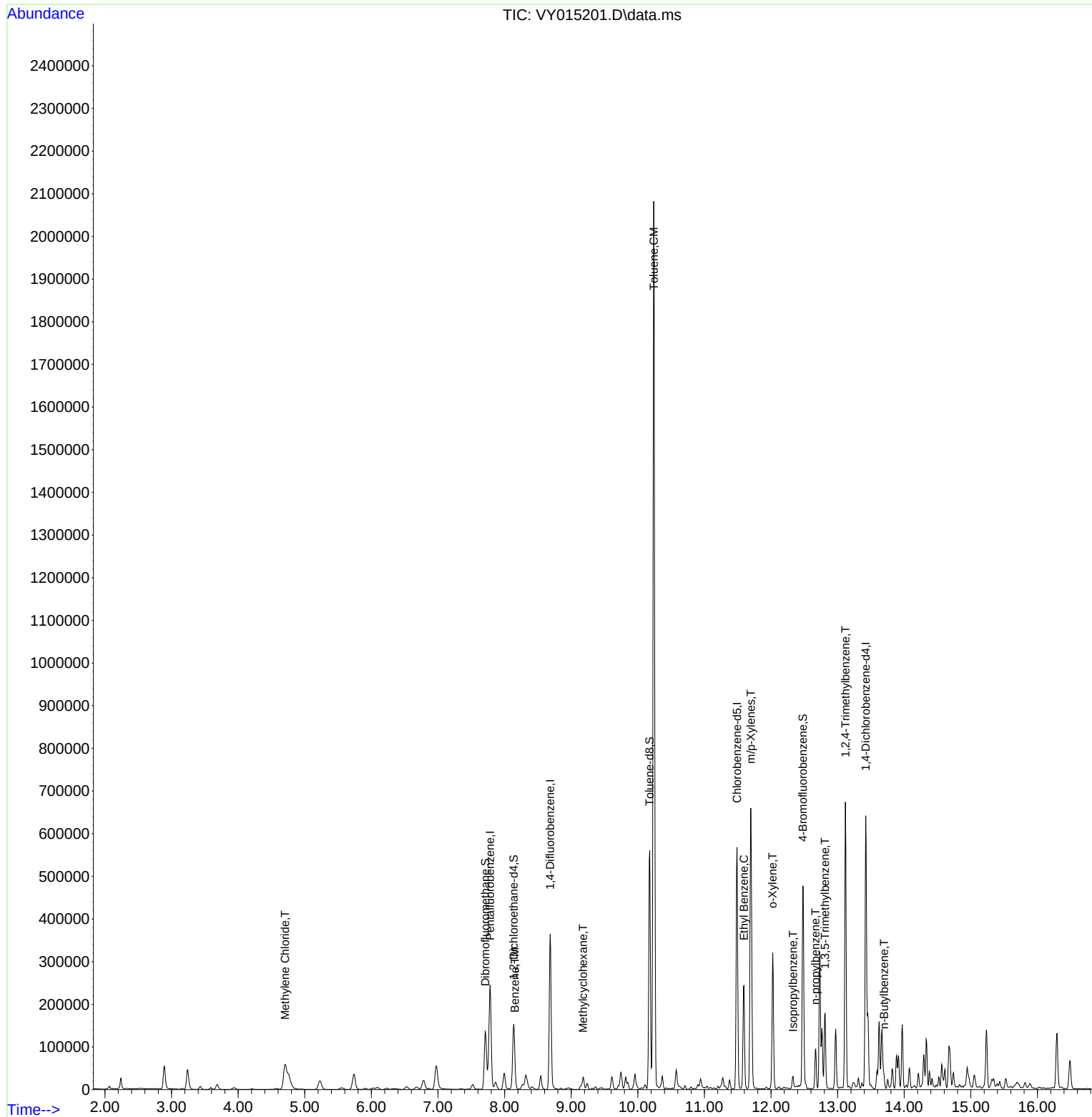
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.783  | 168   | 178420   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.685  | 114   | 305969   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.490 | 117   | 306146   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.422 | 152   | 161479   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.137  | 65    | 112560   | 52.555   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 105.100% |          |
| 35) Dibromofluoromethane    | 7.710  | 113   | 95460    | 48.496   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 97.000%  |          |
| 50) Toluene-d8              | 10.179 | 98    | 366782   | 50.055   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 100.120% |          |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 147855   | 55.245   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | = 110.480% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          | Qvalue     |          |
| 20) Methylene Chloride      | 4.704  | 84    | 39921    | 21.318   | ug/l       | 91       |
| 39) Methylcyclohexane       | 9.179  | 83    | 8251     | 3.380    | ug/l       | 93       |
| 40) Benzene                 | 8.155  | 78    | 13492    | 2.049    | ug/l       | 97       |
| 52) Toluene                 | 10.240 | 92    | 853816   | 196.753  | ug/l       | 94       |
| 67) Ethyl Benzene           | 11.593 | 91    | 169986   | 17.393   | ug/l       | 99       |
| 68) m/p-Xylenes             | 11.697 | 106   | 198246   | 53.408   | ug/l       | 96       |
| 69) o-Xylene                | 12.026 | 106   | 80869    | 21.870   | ug/l       | 98       |
| 73) Isopropylbenzene        | 12.331 | 105   | 18353    | 1.767    | ug/l       | 97       |
| 78) n-propylbenzene         | 12.666 | 91    | 72748    | 5.900    | ug/l       | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.813 | 105   | 85748    | 9.907    | ug/l       | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.117 | 105   | 348248   | 40.264   | ug/l       | 97       |
| 89) n-Butylbenzene          | 13.697 | 91    | 15859    | 1.749    | ug/l #     | 66       |
| -----                       |        |       |          |          |            |          |

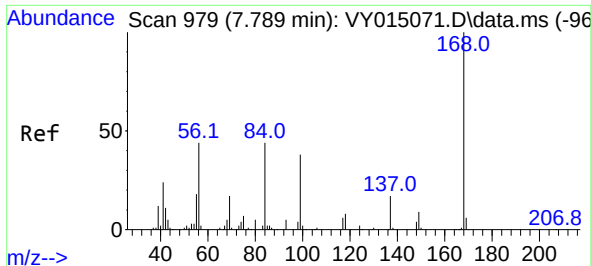
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081823\  
Data File : VY015201.D  
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Sample : 04086-13  
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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

Quant Time: Aug 18 23:13:41 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 14 12:43:26 2023  
Response via : Initial Calibration

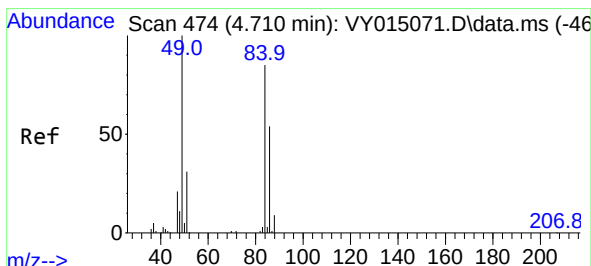
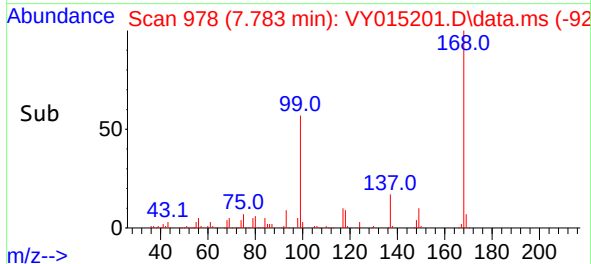
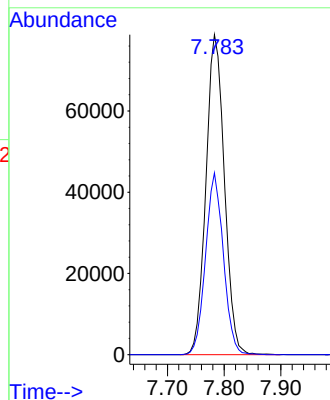
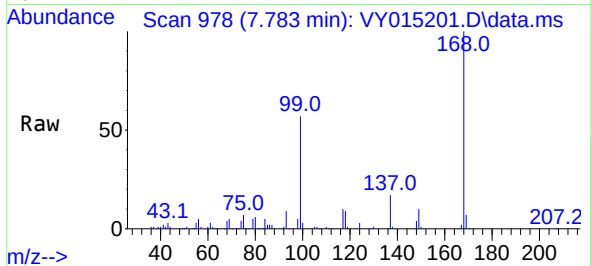




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

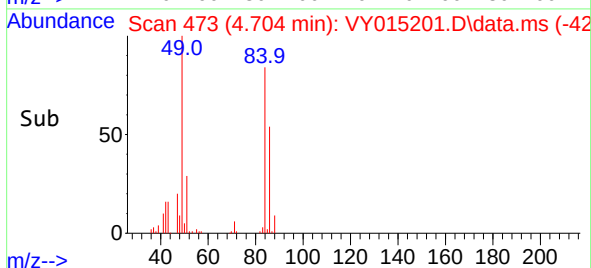
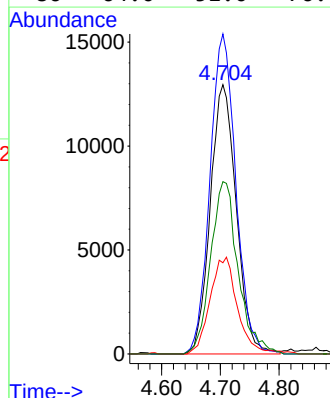
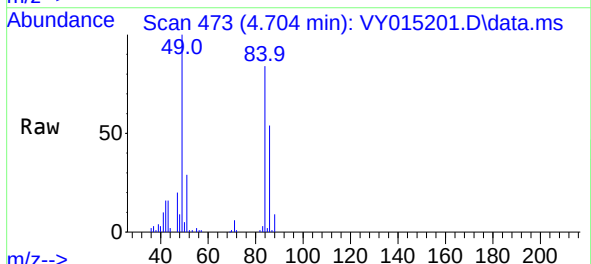
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

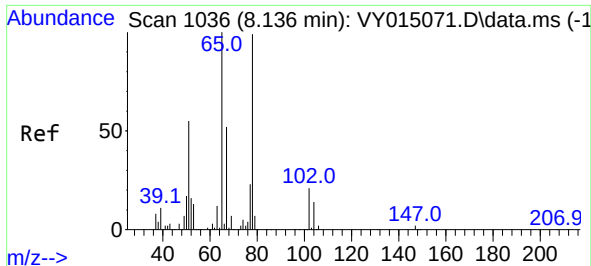
Tgt Ion:168 Resp: 178420  
Ion Ratio Lower Upper  
168 100  
99 56.8 43.4 65.0



#20  
Methylene Chloride  
Concen: 21.318 ug/l  
RT: 4.704 min Scan# 473  
Delta R.T. -0.006 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion: 84 Resp: 39921  
Ion Ratio Lower Upper  
84 100  
49 118.8 106.9 160.3  
51 33.9 33.2 49.8  
86 64.0 51.0 76.6





#33

1,2-Dichloroethane-d4

Concen: 52.555 ug/l

RT: 8.137 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY015201.D

Acq: 18 Aug 2023 17:23

Instrument :

MSVOA\_Y

ClientSampleId :

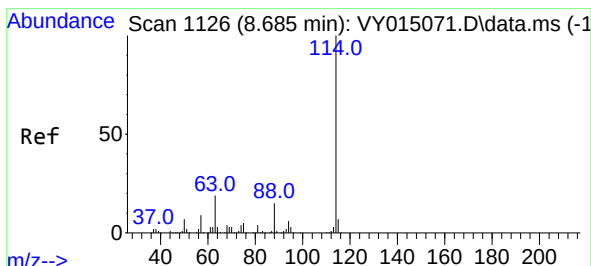
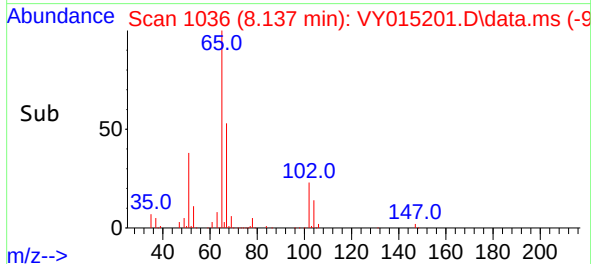
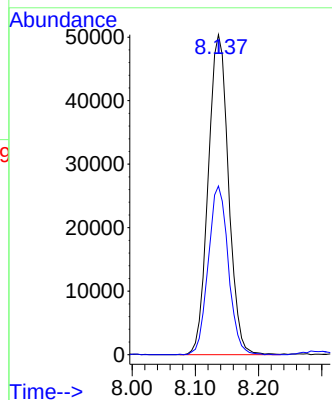
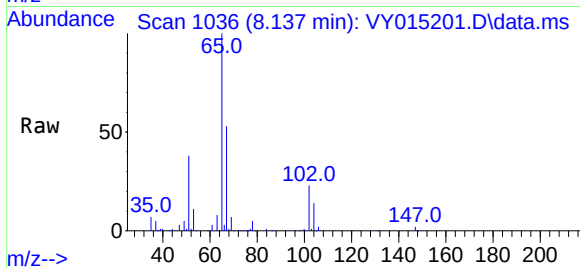
B-PP17A

Tgt Ion: 65 Resp: 112560

Ion Ratio Lower Upper

65 100

67 52.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY015201.D

Acq: 18 Aug 2023 17:23

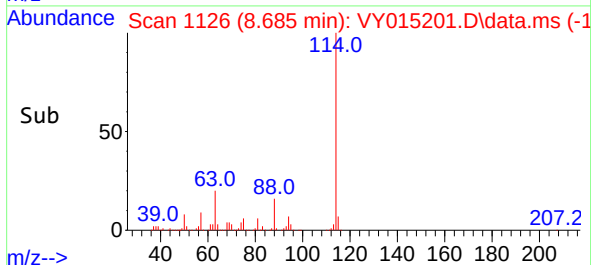
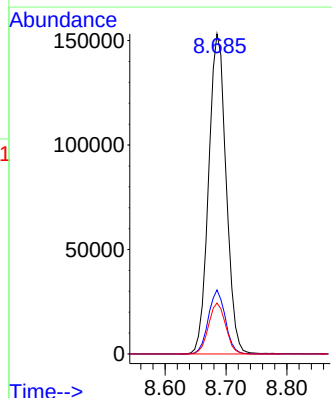
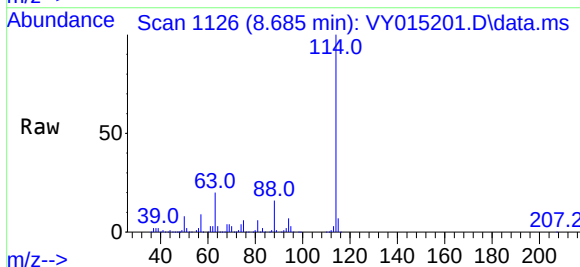
Tgt Ion:114 Resp: 305969

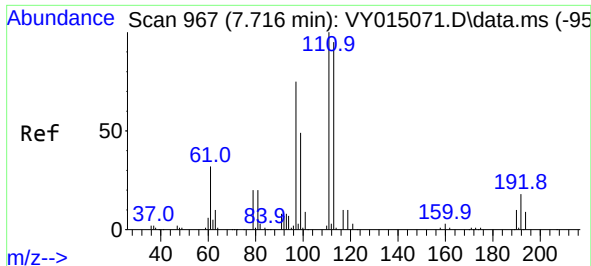
Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

88 15.9 0.0 30.6

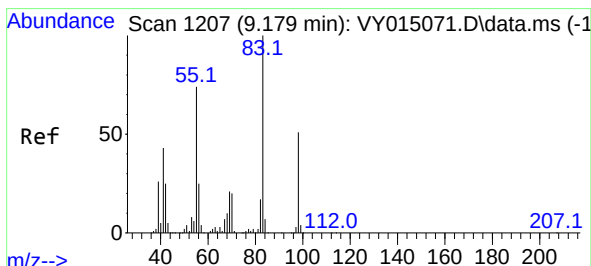
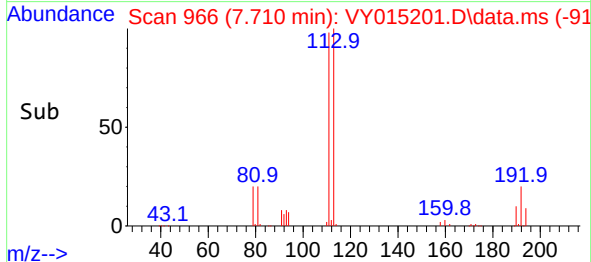
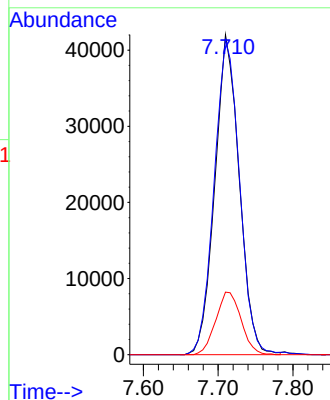
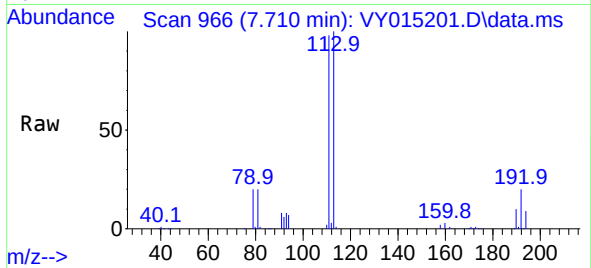




#35  
Dibromofluoromethane  
Concen: 48.496 ug/l  
RT: 7.710 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

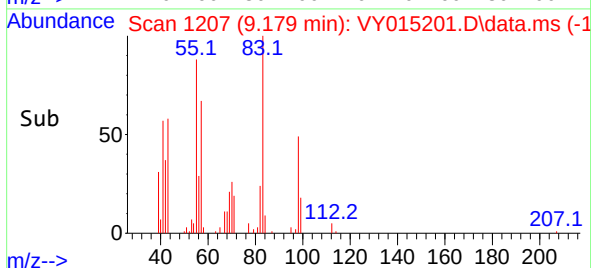
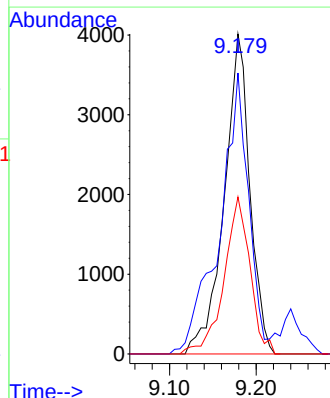
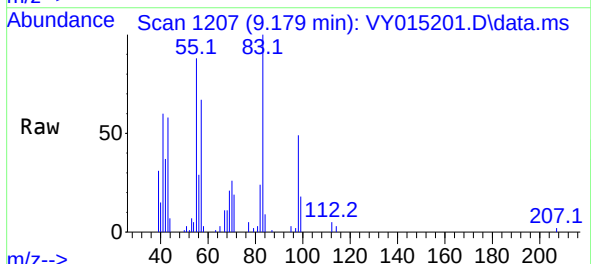
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

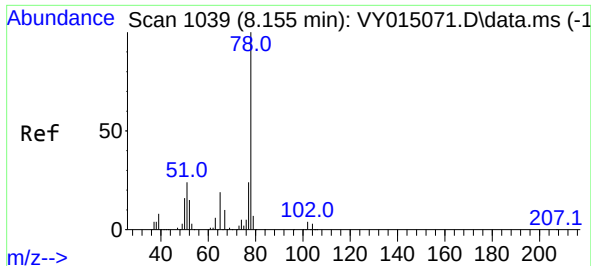
Tgt Ion:113 Resp: 95460  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.3 121.9  
192 20.3 16.9 25.3



#39  
Methylcyclohexane  
Concen: 3.380 ug/l  
RT: 9.179 min Scan# 1207  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion: 83 Resp: 8251  
Ion Ratio Lower Upper  
83 100  
55 86.2 63.0 94.4  
98 49.1 37.4 56.2

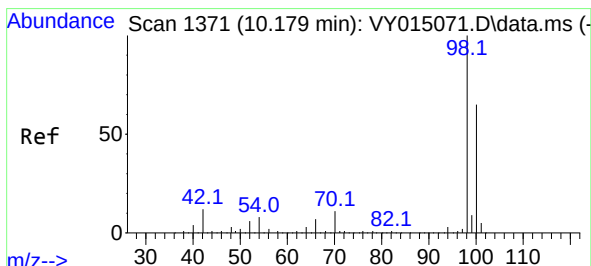
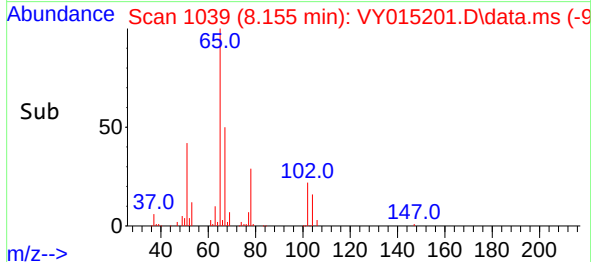
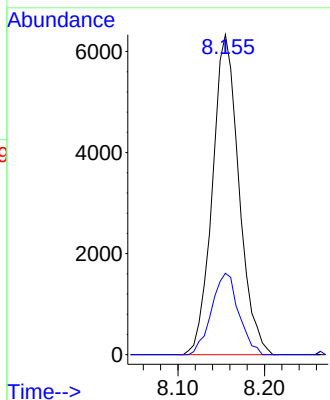
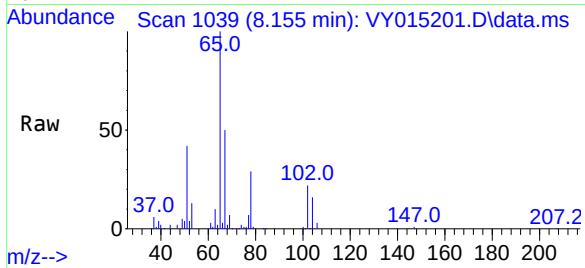




#40  
Benzene  
Concen: 2.049 ug/l  
RT: 8.155 min Scan# 1039  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

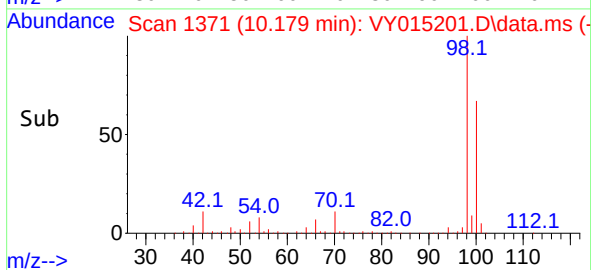
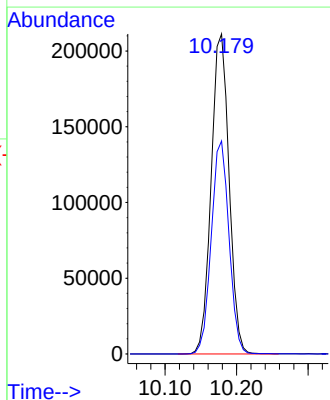
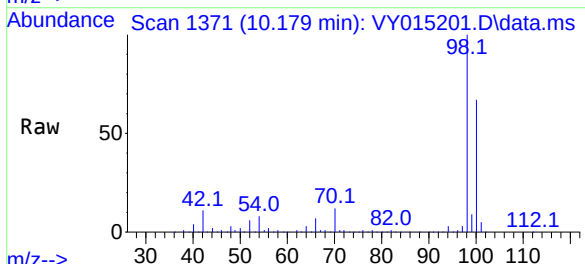
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

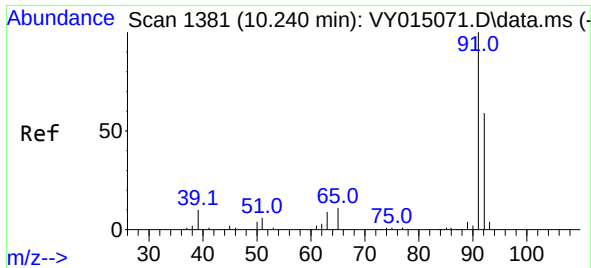
Tgt Ion: 78 Resp: 13492  
Ion Ratio Lower Upper  
78 100  
77 25.4 19.0 28.6



#50  
Toluene-d8  
Concen: 50.055 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion: 98 Resp: 366782  
Ion Ratio Lower Upper  
98 100  
100 65.9 50.1 75.1

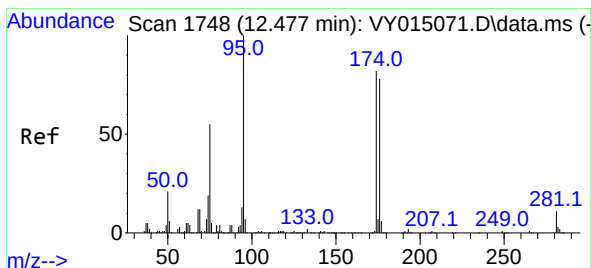
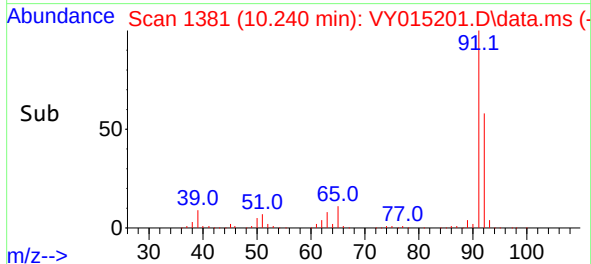
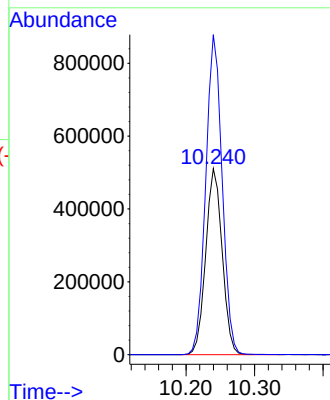
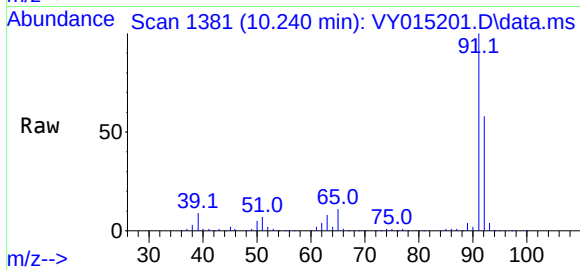




#52  
Toluene  
Concen: 196.753 ug/l  
RT: 10.240 min Scan# 1381  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

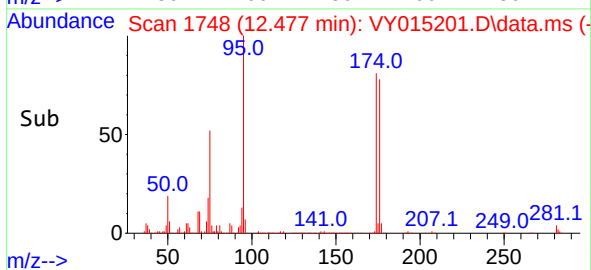
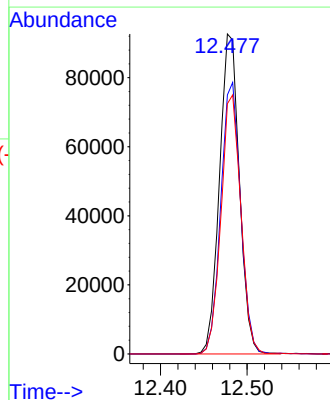
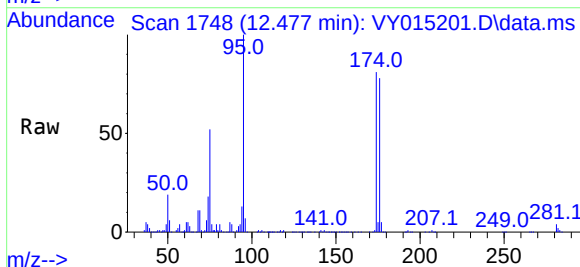
Instrument :  
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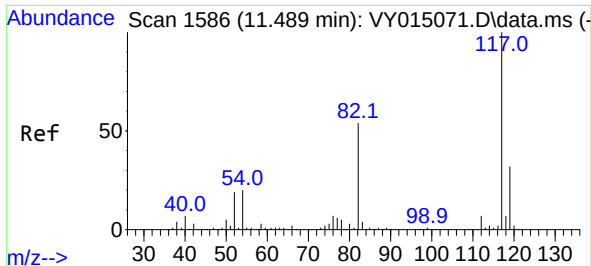
Tgt Ion: 92 Resp: 853816  
Ion Ratio Lower Upper  
92 100  
91 171.1 143.8 215.6



#62  
4-Bromofluorobenzene  
Concen: 55.245 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion: 95 Resp: 147855  
Ion Ratio Lower Upper  
95 100  
174 84.6 0.0 178.2  
176 80.9 0.0 173.8

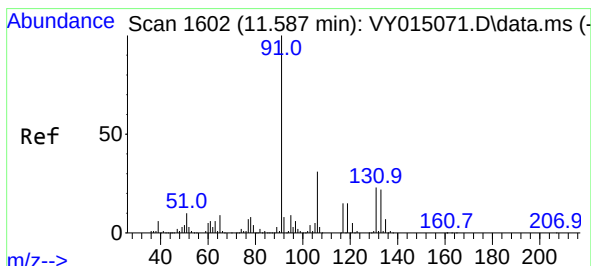
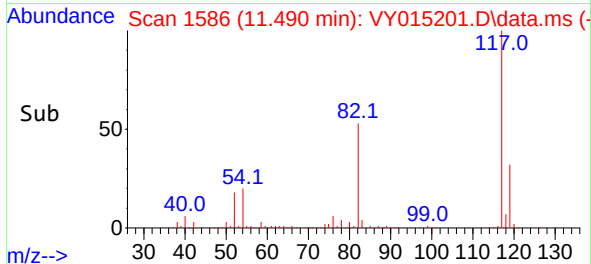
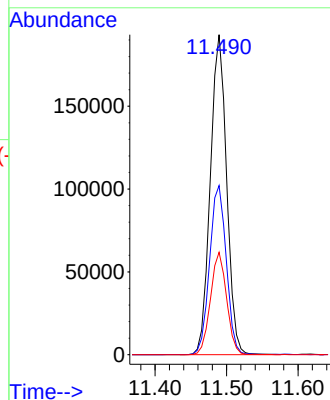
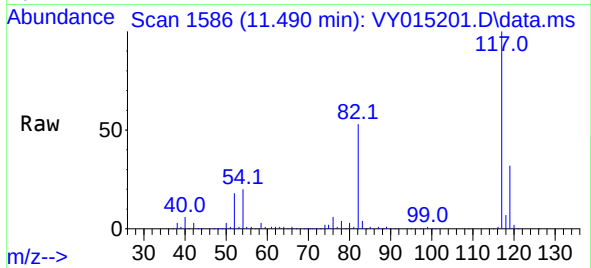




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

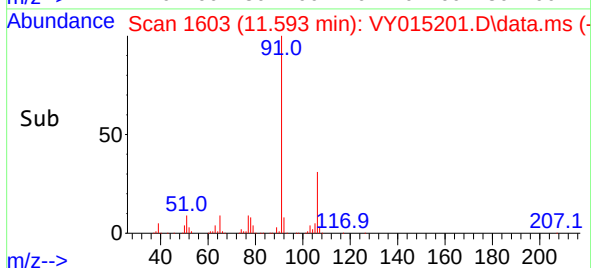
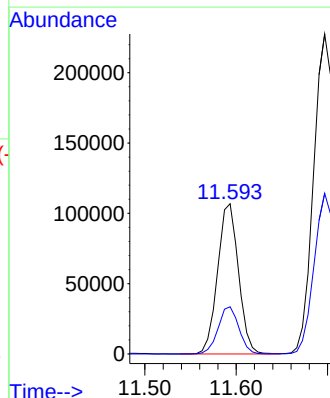
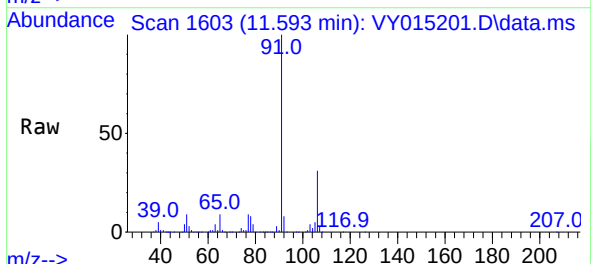
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

Tgt Ion:117 Resp: 306146  
Ion Ratio Lower Upper  
117 100  
82 52.8 43.4 65.0  
119 32.0 26.3 39.5

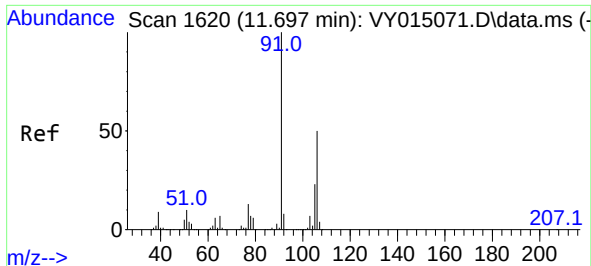


#67  
Ethyl Benzene  
Concen: 17.393 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. 0.006 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion: 91 Resp: 169986  
Ion Ratio Lower Upper  
91 100  
106 31.4 24.6 36.8



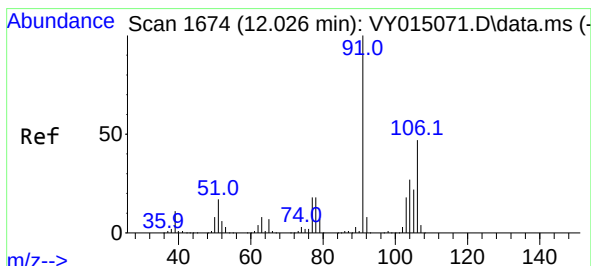
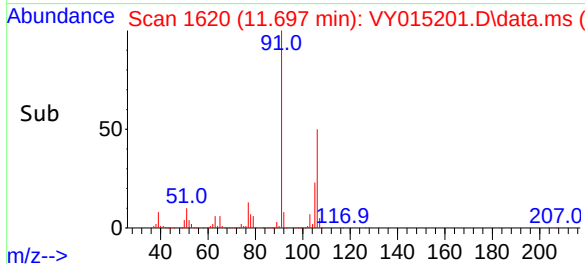
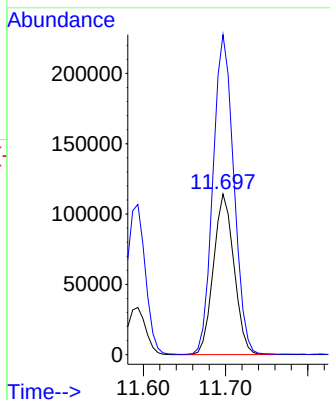
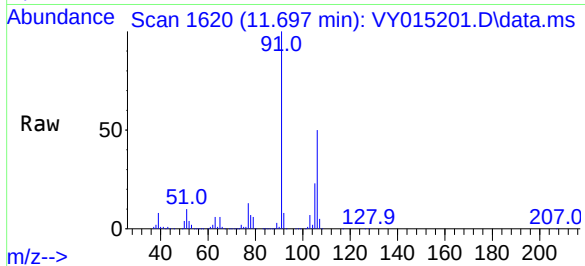




#68  
m/p-Xylenes  
Concen: 53.408 ug/l  
RT: 11.697 min Scan# 1620  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

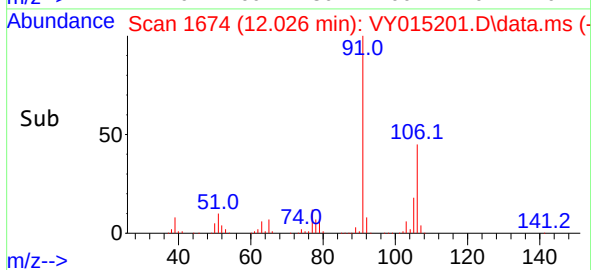
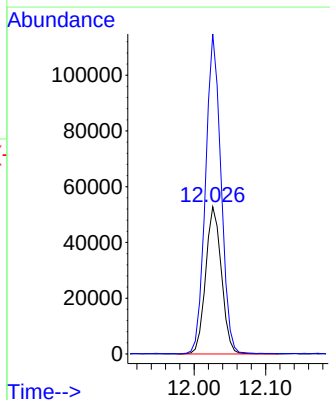
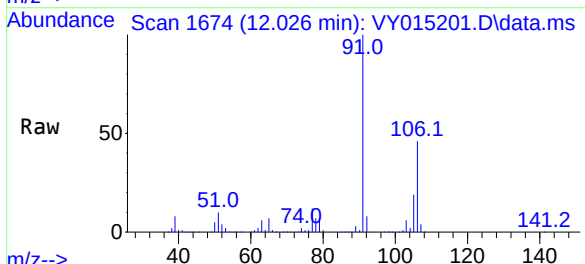
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

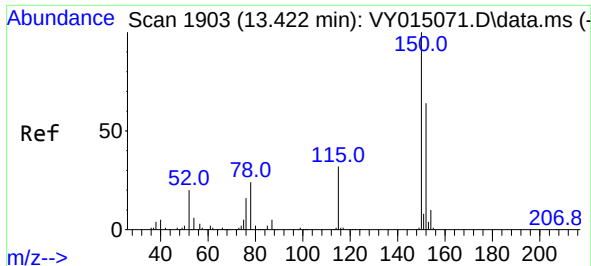
Tgt Ion:106 Resp: 198246  
Ion Ratio Lower Upper  
106 100  
91 202.1 166.1 249.1



#69  
o-Xylene  
Concen: 21.870 ug/l  
RT: 12.026 min Scan# 1674  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion:106 Resp: 80869  
Ion Ratio Lower Upper  
106 100  
91 213.5 108.1 324.3

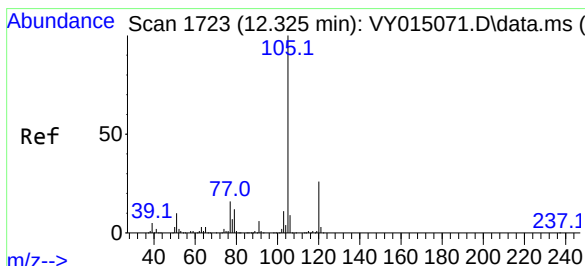
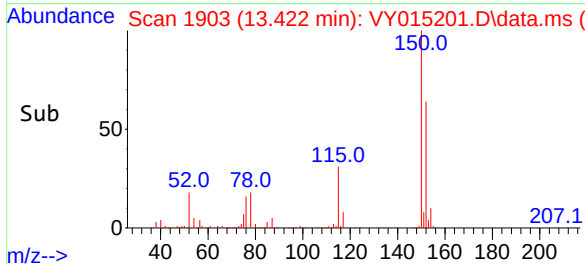
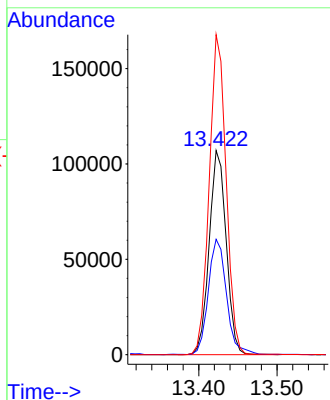
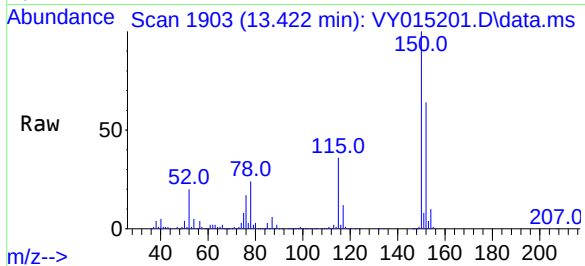




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

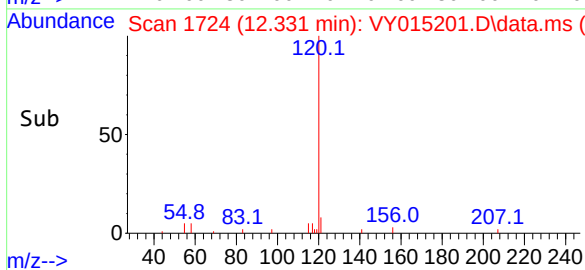
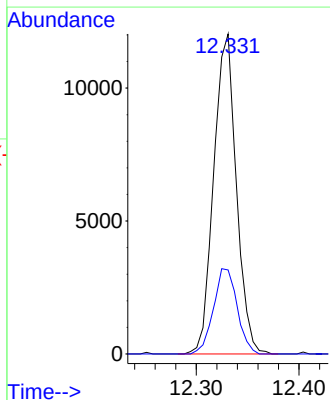
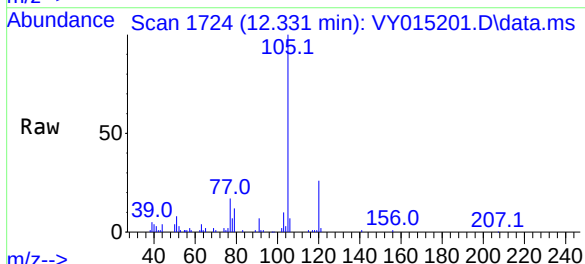
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

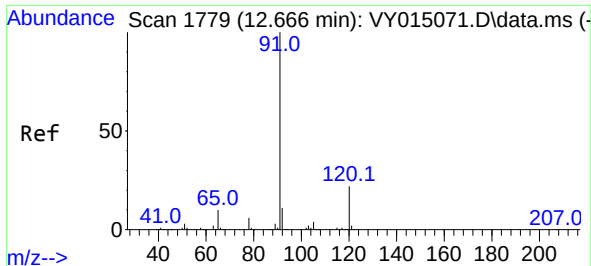
Tgt Ion:152 Resp: 161479  
Ion Ratio Lower Upper  
152 100  
115 60.5 28.8 86.5  
150 155.5 0.0 348.8



#73  
Isopropylbenzene  
Concen: 1.767 ug/l  
RT: 12.331 min Scan# 1724  
Delta R.T. 0.006 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion:105 Resp: 18353  
Ion Ratio Lower Upper  
105 100  
120 27.9 13.3 39.9

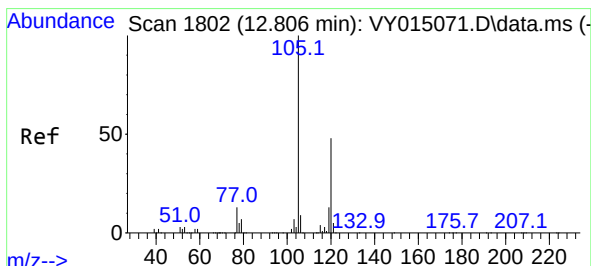
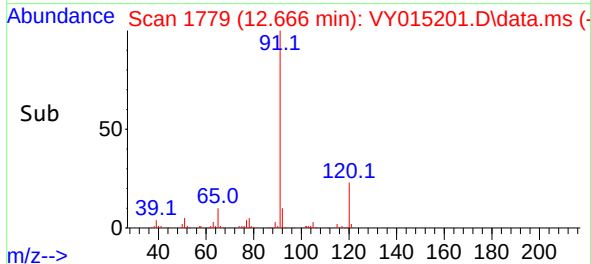
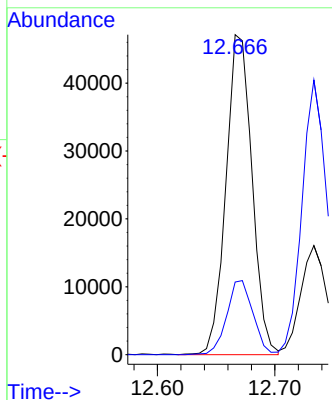
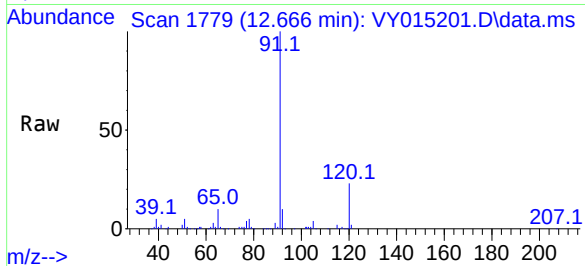




#78  
n-propylbenzene  
Concen: 5.900 ug/l  
RT: 12.666 min Scan# 1779  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

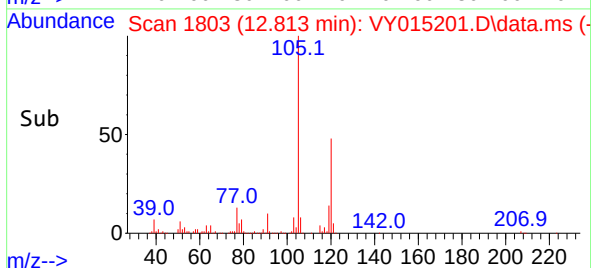
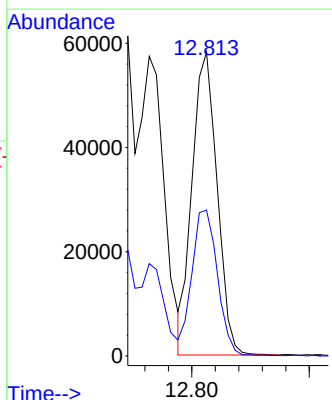
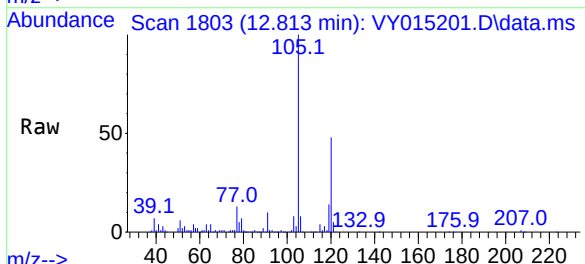
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

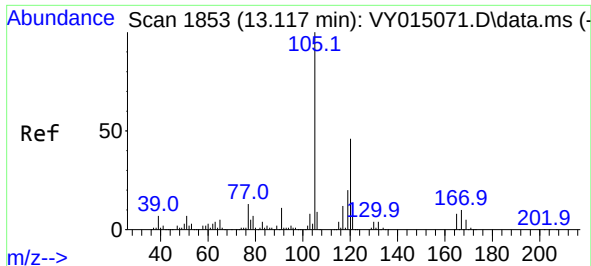
Tgt Ion: 91 Resp: 72748  
Ion Ratio Lower Upper  
91 100  
120 23.2 11.5 34.4



#80  
1,3,5-Trimethylbenzene  
Concen: 9.907 ug/l  
RT: 12.813 min Scan# 1803  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion: 105 Resp: 85748  
Ion Ratio Lower Upper  
105 100  
120 49.4 23.9 71.7

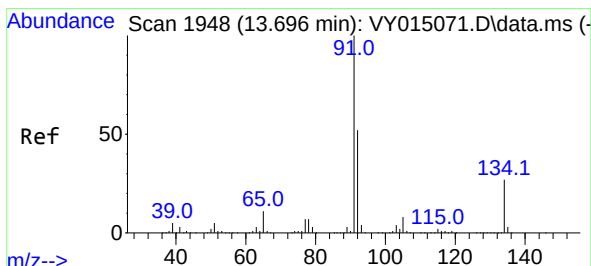
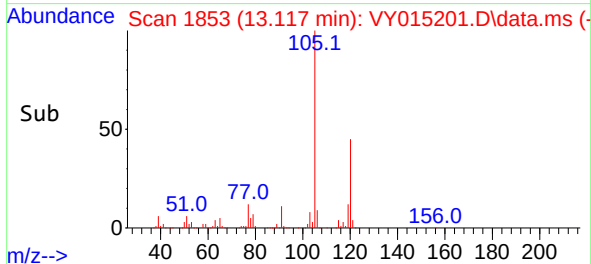
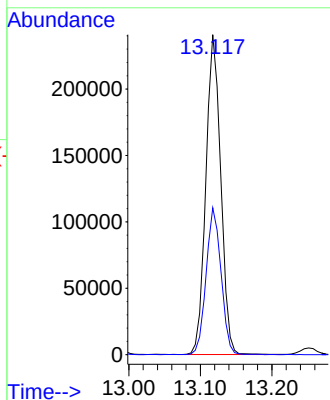
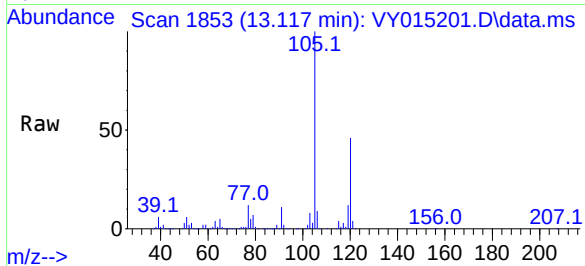




#84  
1,2,4-Trimethylbenzene  
Concen: 40.264 ug/l  
RT: 13.117 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Instrument :  
MSVOA\_Y  
ClientSampleId :  
B-PP17A

Tgt Ion:105 Resp: 348248  
Ion Ratio Lower Upper  
105 100  
120 46.1 22.2 66.6



#89  
n-Butylbenzene  
Concen: 1.749 ug/l  
RT: 13.697 min Scan# 1948  
Delta R.T. 0.000 min  
Lab File: VY015201.D  
Acq: 18 Aug 2023 17:23

Tgt Ion: 91 Resp: 15859  
Ion Ratio Lower Upper  
91 100  
92 68.5 25.4 76.0  
134 0.0 12.6 37.6#

