

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041923\  
 Data File : VY013353.D  
 Acq On : 19 Apr 2023 18:16  
 Operator : KP/MD  
 Sample : 02366-03  
 Misc : 5.34g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 20230291-25-1

Quant Time: Apr 20 06:57:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 13 05:55:16 2023  
 Response via : Initial Calibration

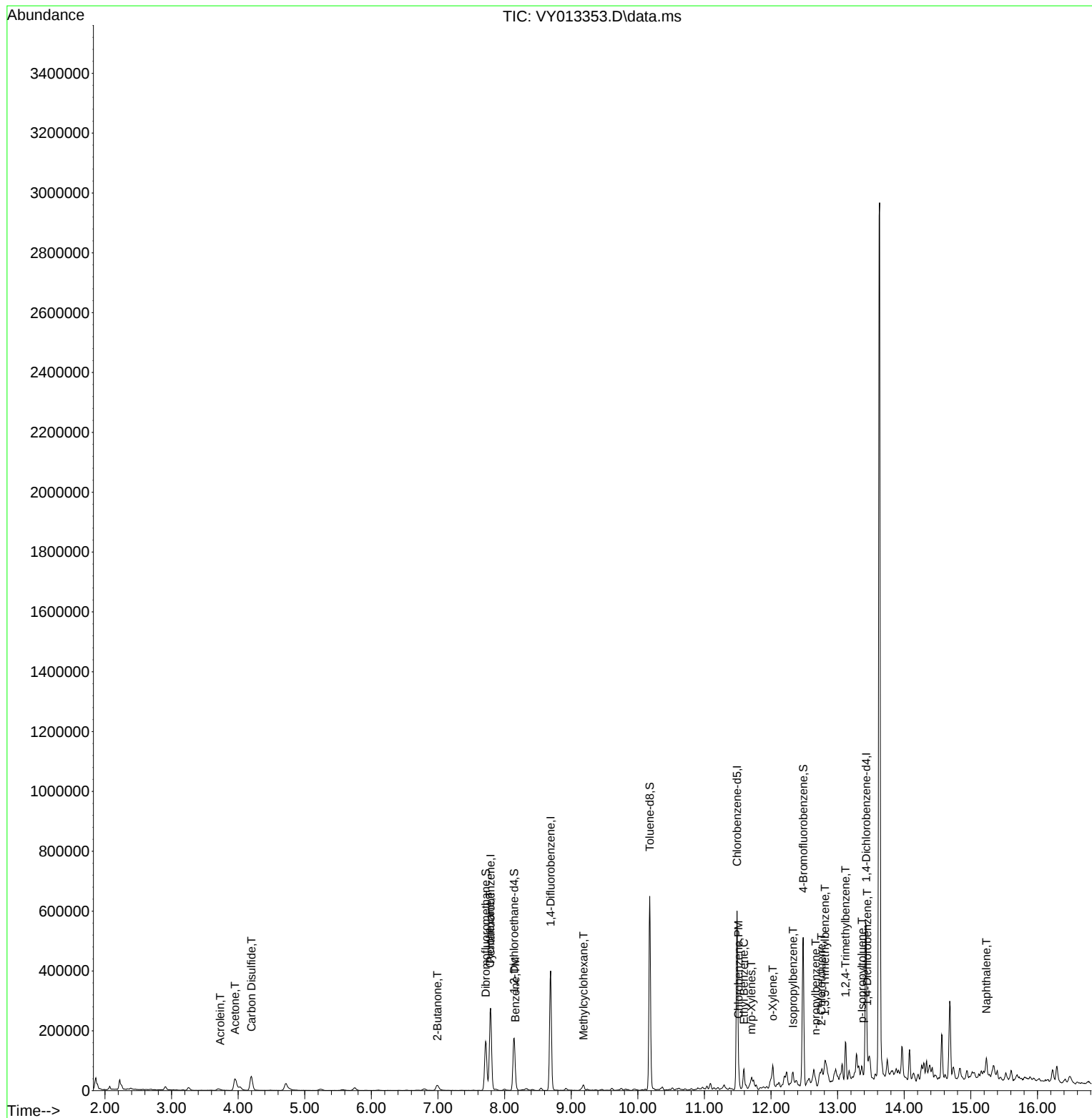
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.789  | 168   | 203392   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.691  | 114   | 332874   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.490 | 117   | 313161   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.428 | 152   | 143690   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.143  | 65    | 136205   | 55.723   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 111.440% |          |
| 35) Dibromofluoromethane    | 7.716  | 113   | 115386   | 53.543   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 107.080% |          |
| 50) Toluene-d8              | 10.179 | 98    | 407209   | 50.766   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | = 101.540% |          |
| 62) 4-Bromofluorobenzene    | 12.483 | 95    | 141088   | 54.135   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | = 108.260% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          | Qvalue     |          |
| 13) Acrolein                | 3.729  | 56    | 3228     | 10.750   | ug/l #     | 1        |
| 16) Acetone                 | 3.954  | 43    | 89814    | 106.868  | ug/l       | 99       |
| 17) Carbon Disulfide        | 4.198  | 76    | 96959    | 15.388   | ug/l       | 96       |
| 25) 2-Butanone              | 6.990  | 43    | 27257    | 25.330   | ug/l       | 92       |
| 31) Cyclohexane             | 7.783  | 56    | 11162    | 3.020    | ug/l #     | 70       |
| 39) Methylcyclohexane       | 9.185  | 83    | 5701     | 1.502    | ug/l       | 93       |
| 40) Benzene                 | 8.161  | 78    | 14189    | 1.502    | ug/l       | 97       |
| 65) Chlorobenzene           | 11.514 | 112   | 20016    | 3.055    | ug/l       | 100      |
| 67) Ethyl Benzene           | 11.593 | 91    | 43704    | 3.830    | ug/l       | 100      |
| 68) m/p-Xylenes             | 11.703 | 106   | 8529     | 1.954    | ug/l       | 92       |
| 69) o-Xylene                | 12.026 | 106   | 16953    | 4.193    | ug/l       | 99       |
| 73) Isopropylbenzene        | 12.331 | 105   | 22187    | 2.251    | ug/l       | 100      |
| 78) n-propylbenzene         | 12.672 | 91    | 16095    | 1.322    | ug/l       | 99       |
| 79) 2-Chlorotoluene         | 12.758 | 91    | 16240    | 2.370    | ug/l       | 92       |
| 80) 1,3,5-Trimethylbenzene  | 12.812 | 105   | 12732    | 1.542    | ug/l       | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.117 | 105   | 69328    | 8.629    | ug/l       | 98       |
| 86) p-Isopropyltoluene      | 13.367 | 119   | 12797    | 1.472    | ug/l #     | 77       |
| 88) 1,4-Dichlorobenzene     | 13.446 | 146   | 6117     | 1.274    | ug/l #     | 41       |
| 95) Naphthalene             | 15.233 | 128   | 51470    | 10.850   | ug/l       | 96       |
| -----                       |        |       |          |          |            |          |

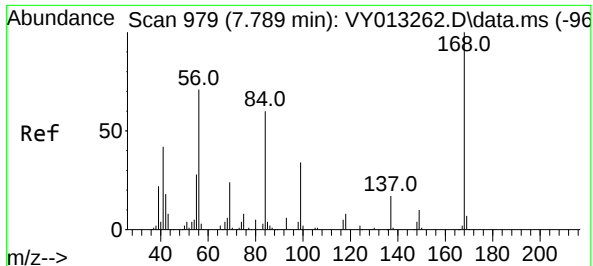
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 20 06:57:27 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 13 05:55:16 2023  
Response via : Initial Calibration

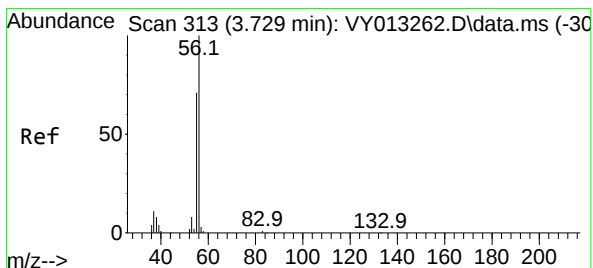
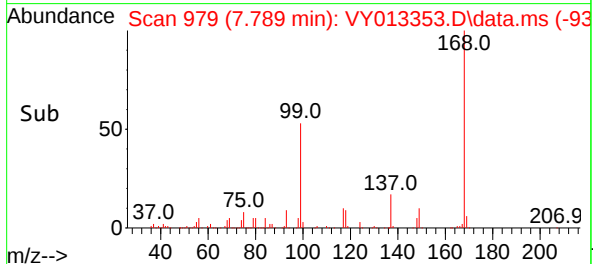
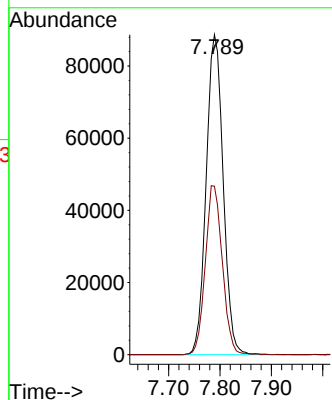
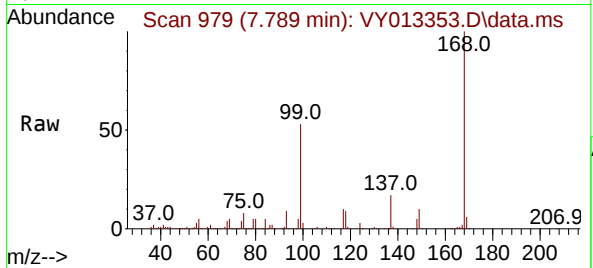




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

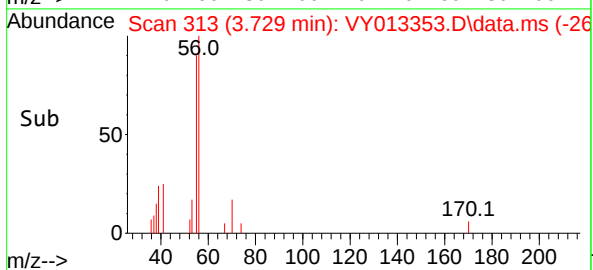
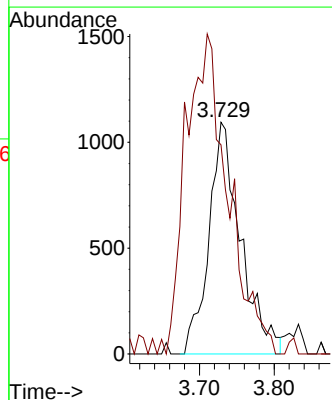
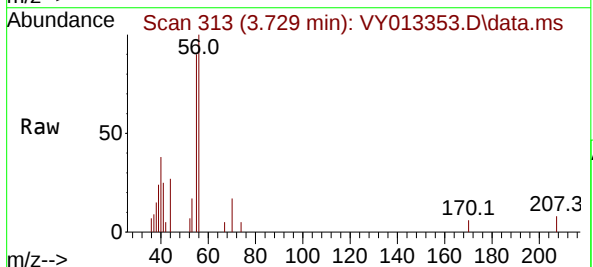
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1

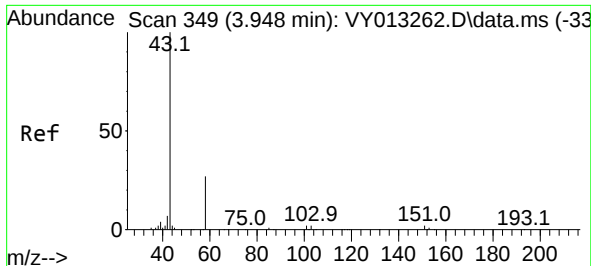
Tgt Ion:168 Resp: 203392  
Ion Ratio Lower Upper  
168 100  
99 52.7 41.7 62.5



#13  
Acrolein  
Concen: 10.750 ug/l  
RT: 3.729 min Scan# 313  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion: 56 Resp: 3228  
Ion Ratio Lower Upper  
56 100  
55 182.7 56.8 85.2#

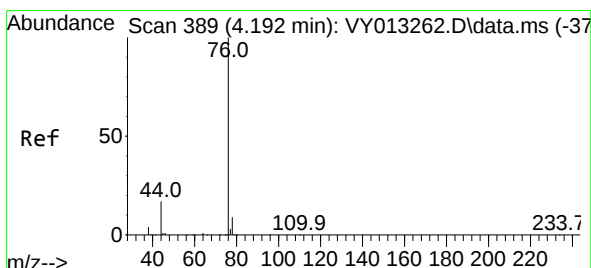
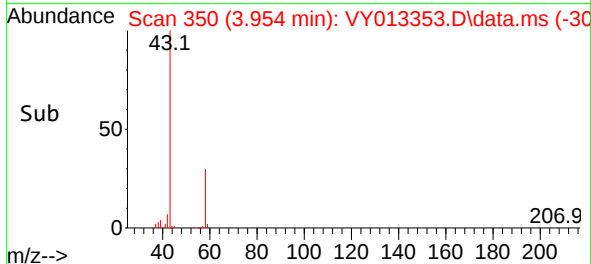
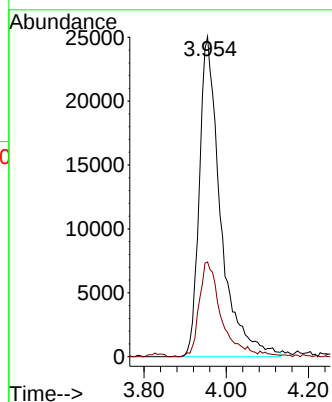
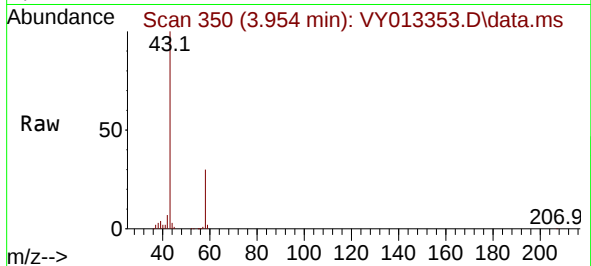




#16  
Acetone  
Concen: 106.868 ug/l  
RT: 3.954 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

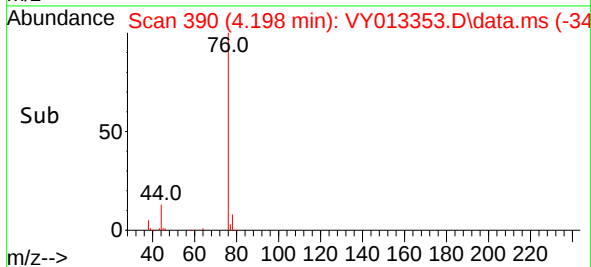
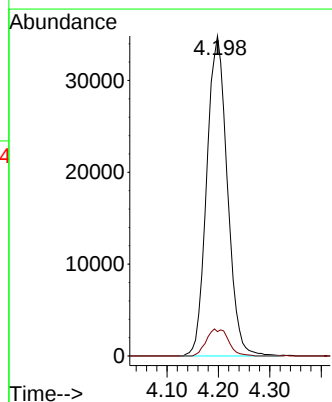
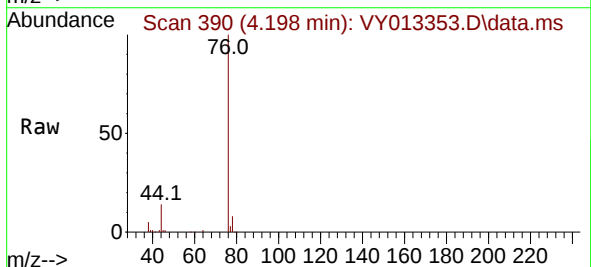
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1

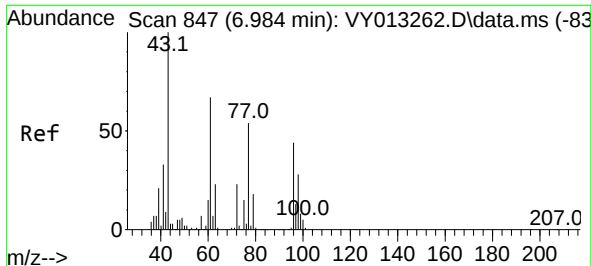
Tgt Ion: 43 Resp: 89814  
Ion Ratio Lower Upper  
43 100  
58 29.6 24.2 36.2



#17  
Carbon Disulfide  
Concen: 15.388 ug/l  
RT: 4.198 min Scan# 390  
Delta R.T. 0.006 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion: 76 Resp: 96959  
Ion Ratio Lower Upper  
76 100  
78 7.6 7.1 10.7

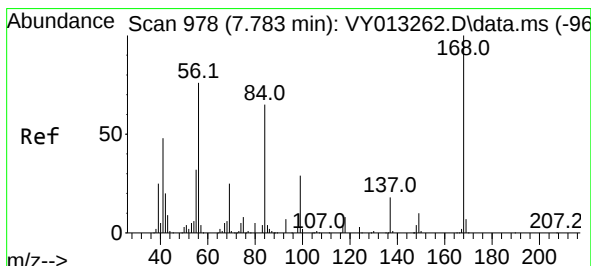
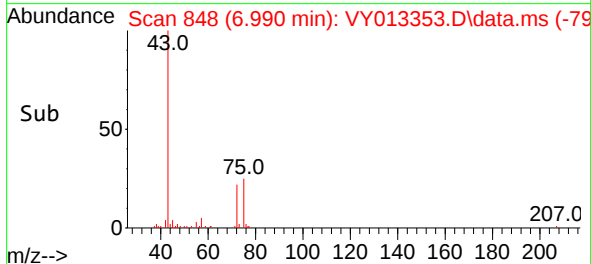
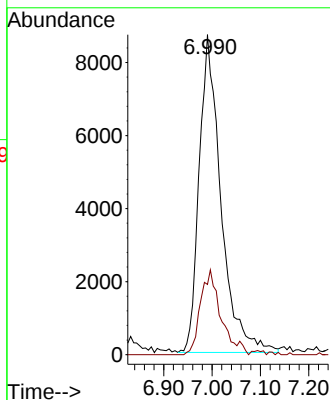
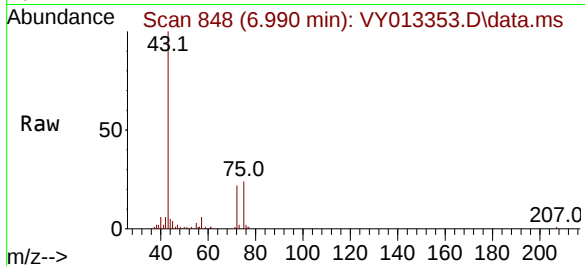




#25  
2-Butanone  
Concen: 25.330 ug/l  
RT: 6.990 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

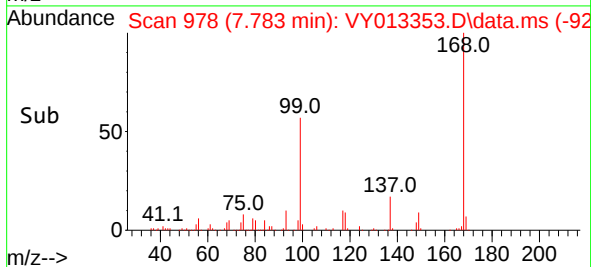
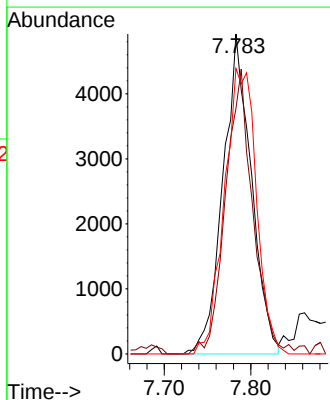
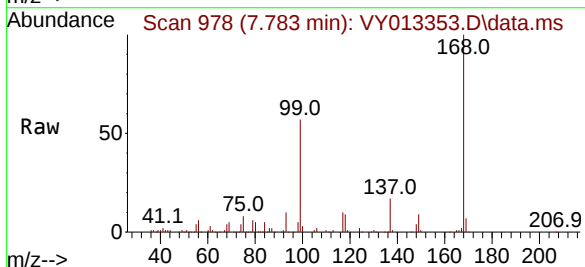
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1

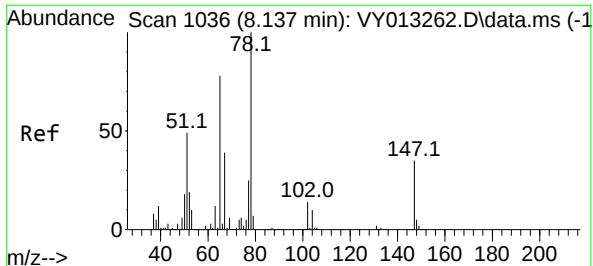
Tgt Ion: 43 Resp: 27257  
Ion Ratio Lower Upper  
43 100  
72 22.1 21.0 31.4



#31  
Cyclohexane  
Concen: 3.020 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion: 56 Resp: 11162  
Ion Ratio Lower Upper  
56 100  
69 76.8 25.7 38.5#  
84 89.2 64.3 96.5





#33

1,2-Dichloroethane-d4

Concen: 55.723 ug/l

RT: 8.143 min Scan# 1036

Delta R.T. 0.006 min

Lab File: VY013353.D

Acq: 19 Apr 2023 18:16

Instrument :

MSVOA\_Y

ClientSampleId :

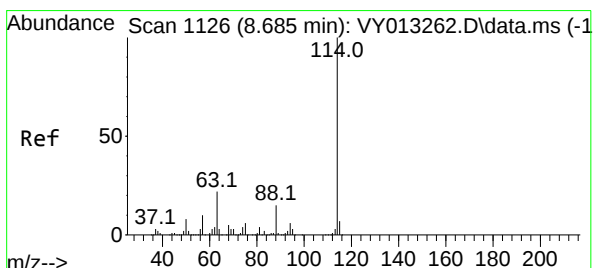
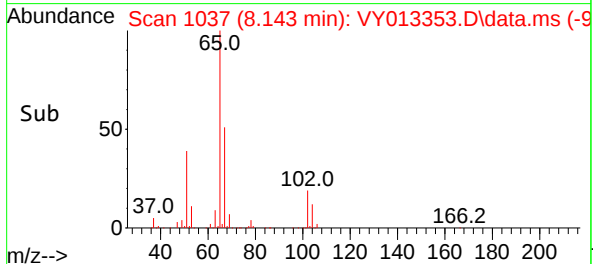
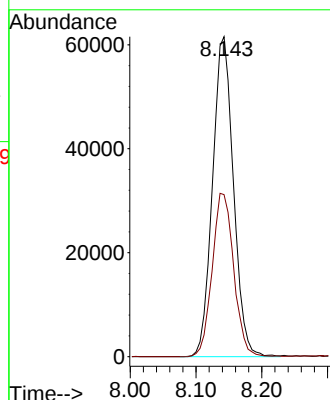
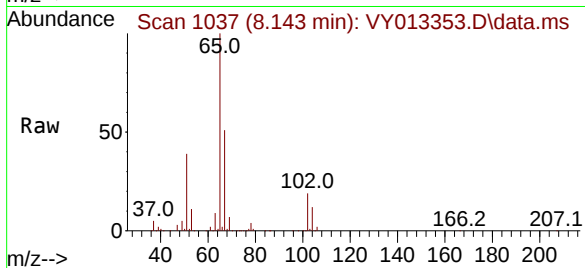
20230291-25-1

Tgt Ion: 65 Resp: 136205

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY013353.D

Acq: 19 Apr 2023 18:16

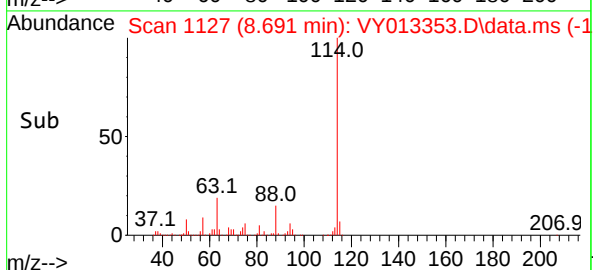
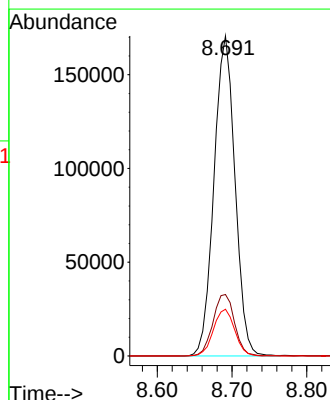
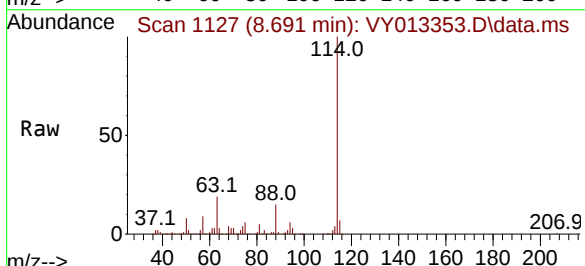
Tgt Ion: 114 Resp: 332874

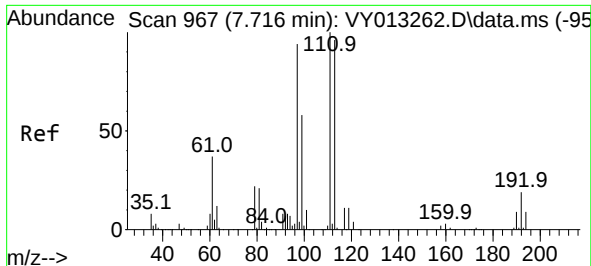
Ion Ratio Lower Upper

114 100

63 19.2 0.0 37.4

88 14.6 0.0 28.6

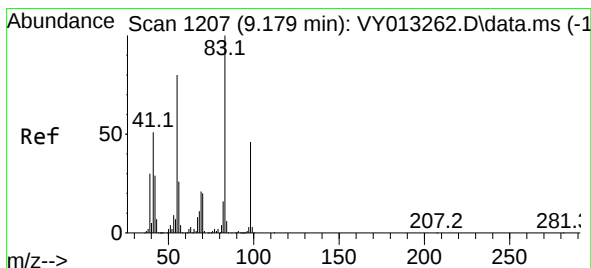
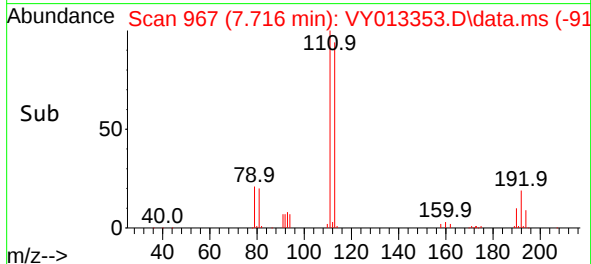
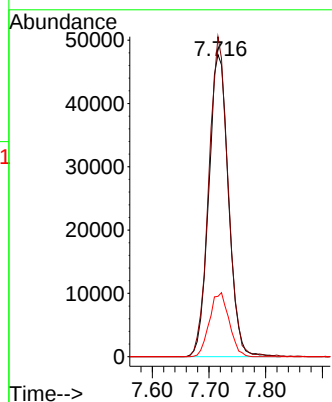
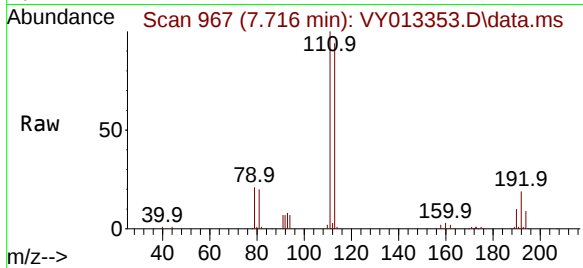




#35  
Dibromofluoromethane  
Concen: 53.543 ug/l  
RT: 7.716 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

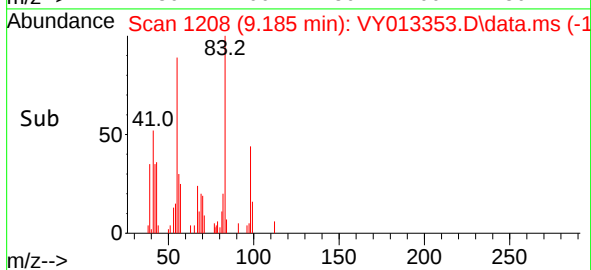
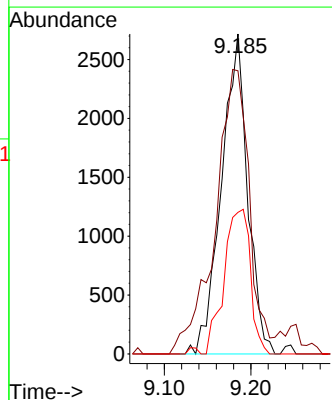
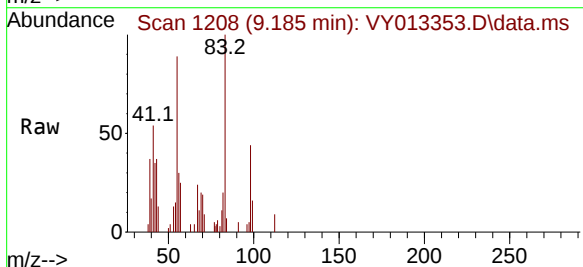
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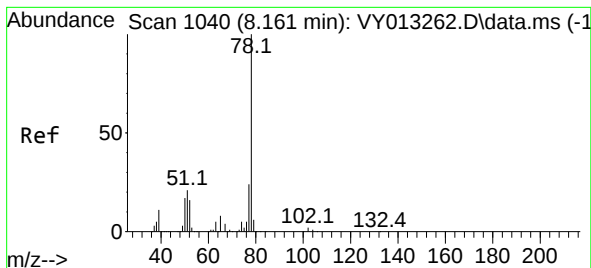
Tgt Ion:113 Resp: 115386  
Ion Ratio Lower Upper  
113 100  
111 103.2 82.2 123.2  
192 21.1 16.8 25.2



#39  
Methylcyclohexane  
Concen: 1.502 ug/l  
RT: 9.185 min Scan# 1208  
Delta R.T. 0.006 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion: 83 Resp: 5701  
Ion Ratio Lower Upper  
83 100  
55 82.2 60.0 90.0  
98 44.2 38.3 57.5





#40

Benzene

Concen: 1.502 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY013353.D

Acq: 19 Apr 2023 18:16

Instrument :

MSVOA\_Y

ClientSampleId :

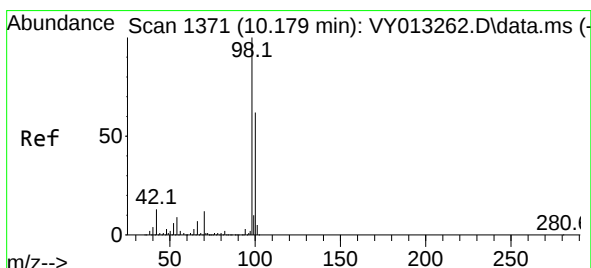
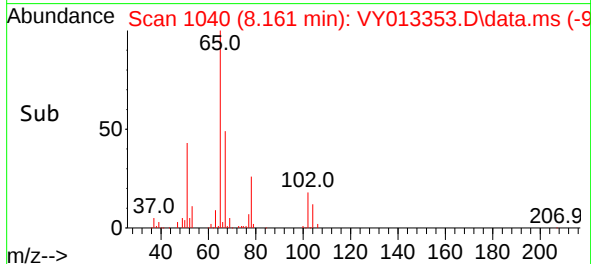
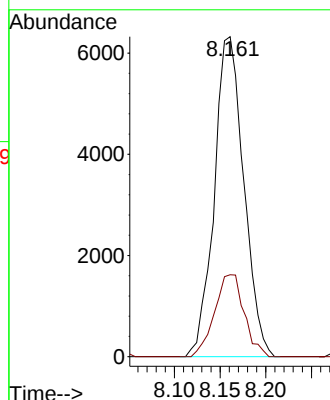
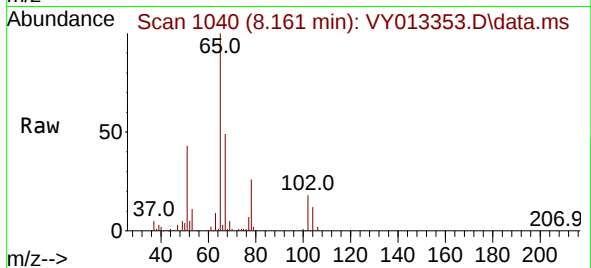
20230291-25-1

Tgt Ion: 78 Resp: 14189

Ion Ratio Lower Upper

78 100

77 25.6 19.4 29.0



#50

Toluene-d8

Concen: 50.766 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY013353.D

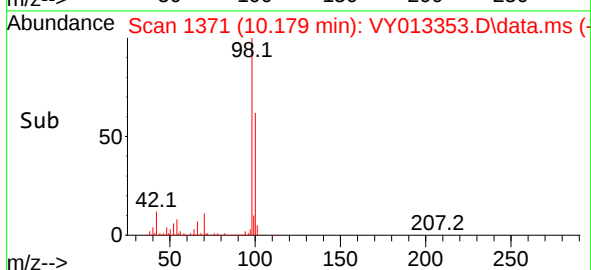
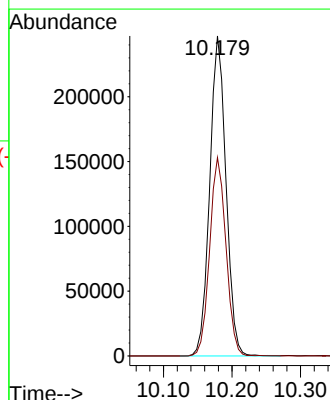
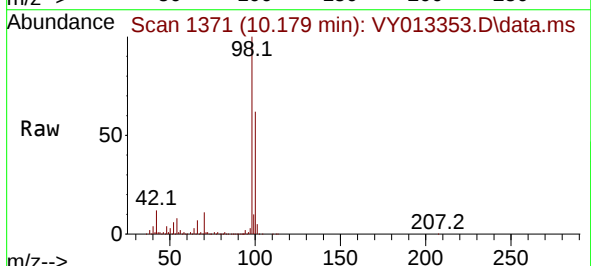
Acq: 19 Apr 2023 18:16

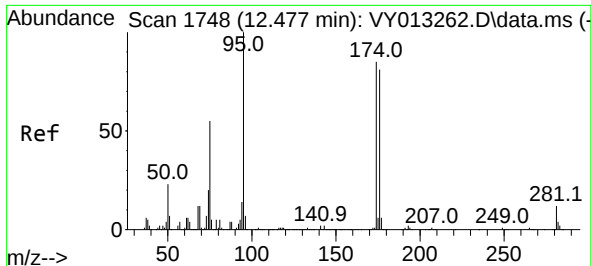
Tgt Ion: 98 Resp: 407209

Ion Ratio Lower Upper

98 100

100 62.2 50.9 76.3

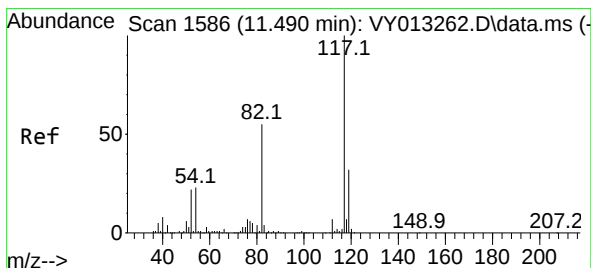
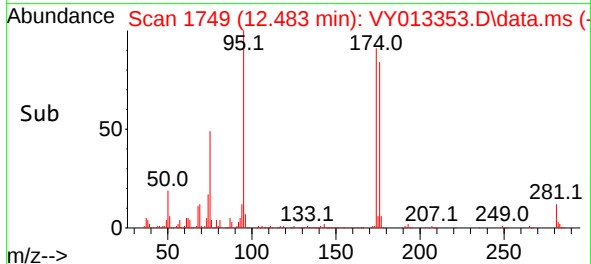
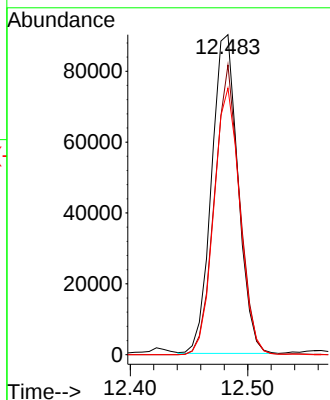
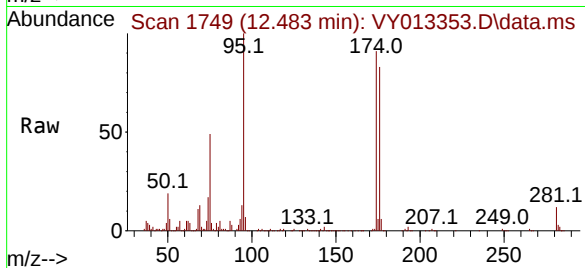




#62  
4-Bromofluorobenzene  
Concen: 54.135 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

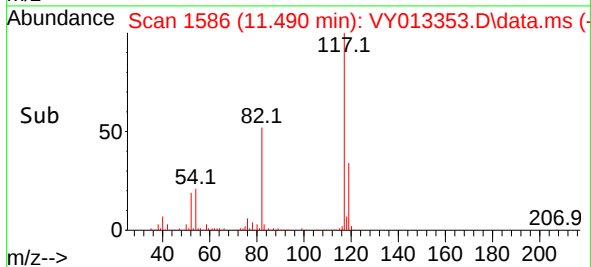
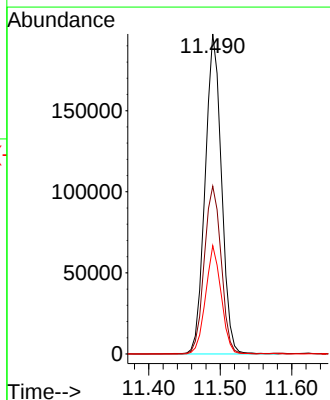
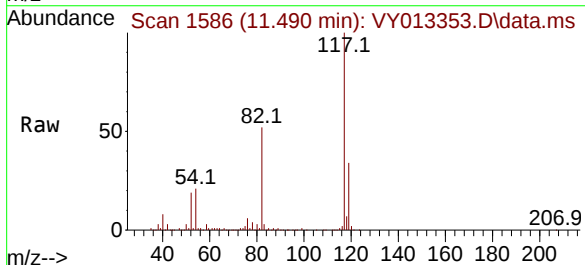
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1

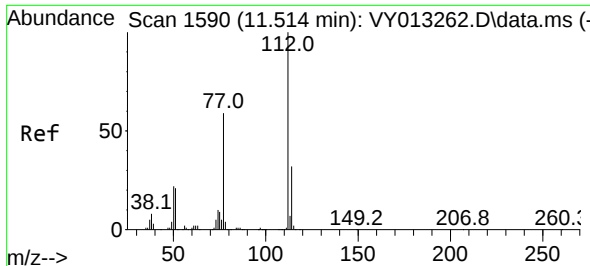
Tgt Ion: 95 Resp: 141088  
Ion Ratio Lower Upper  
95 100  
174 85.7 0.0 176.6  
176 82.7 0.0 170.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion: 117 Resp: 313161  
Ion Ratio Lower Upper  
117 100  
82 52.3 45.4 68.0  
119 33.9 25.6 38.4

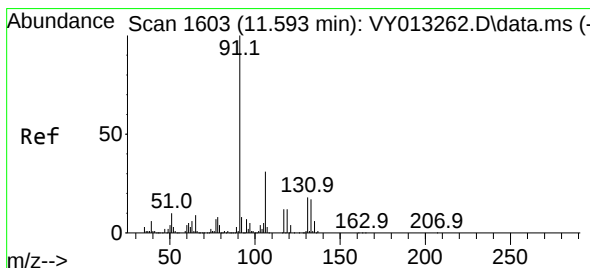
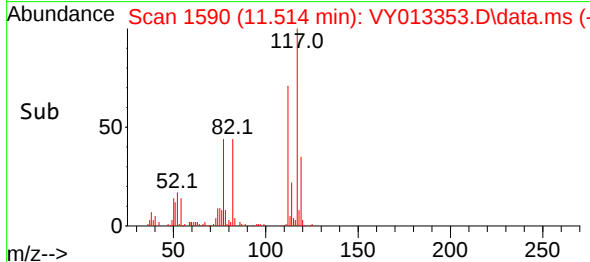
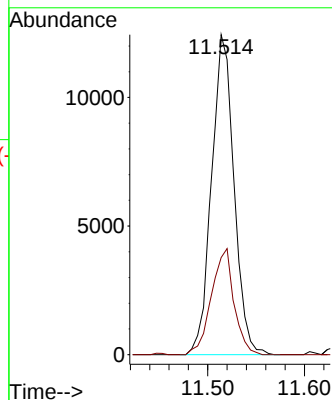
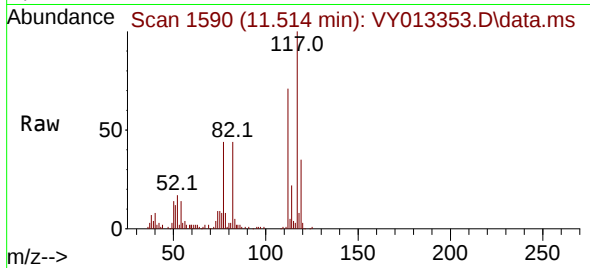




#65  
Chlorobenzene  
Concen: 3.055 ug/l  
RT: 11.514 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

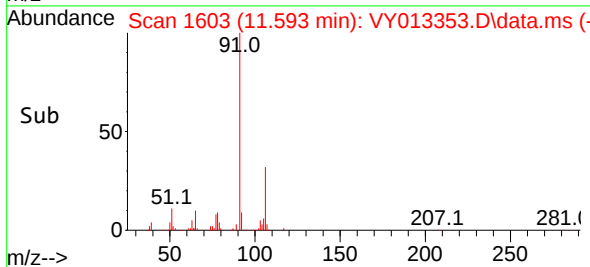
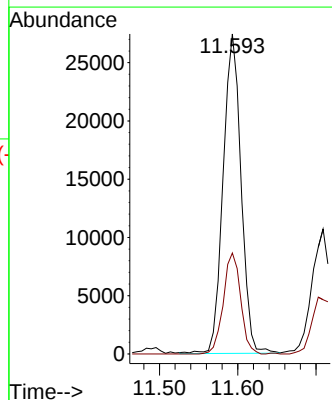
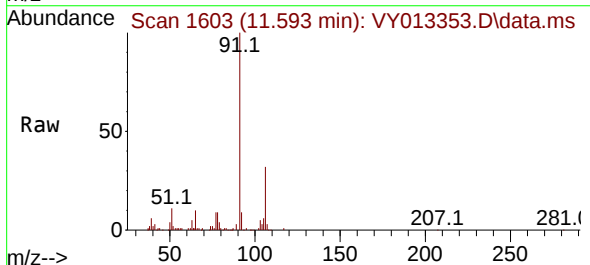
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1

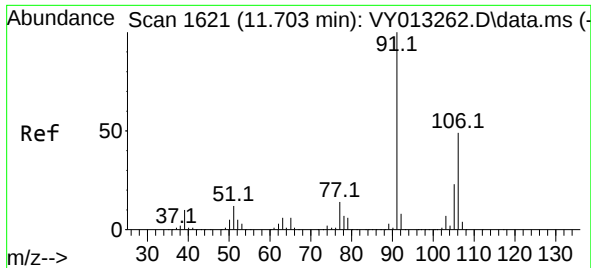
Tgt Ion:112 Resp: 20016  
Ion Ratio Lower Upper  
112 100  
114 30.4 24.5 36.7



#67  
Ethyl Benzene  
Concen: 3.830 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion: 91 Resp: 43704  
Ion Ratio Lower Upper  
91 100  
106 31.6 25.1 37.7

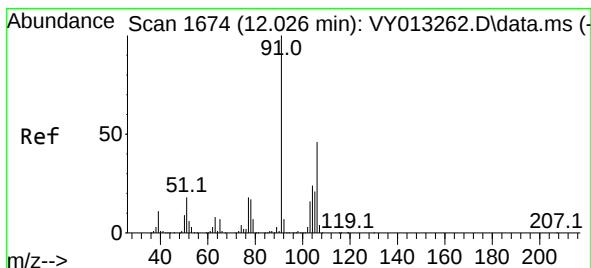
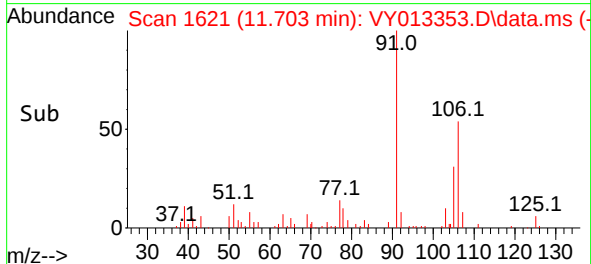
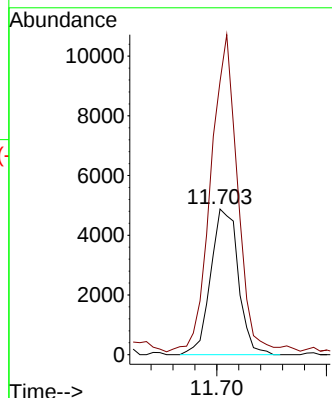
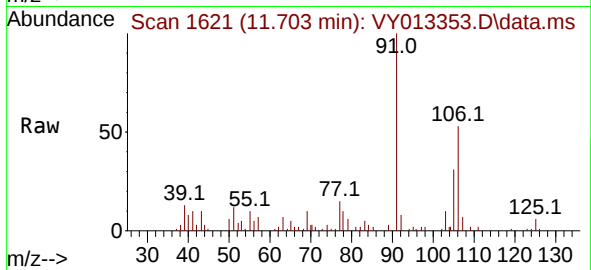




#68  
m/p-Xylenes  
Concen: 1.954 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

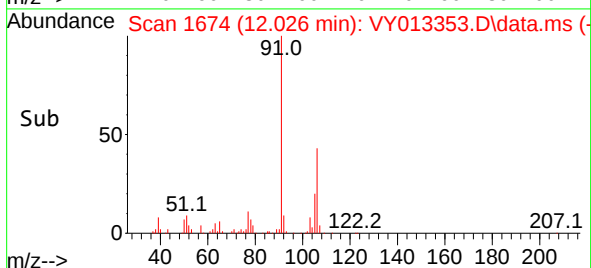
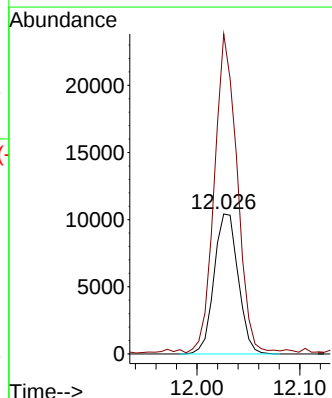
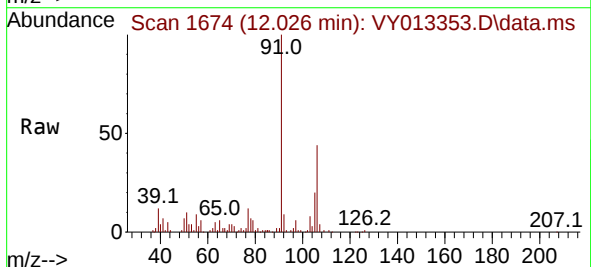
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1

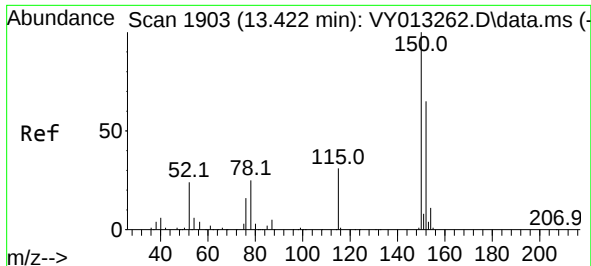
Tgt Ion:106 Resp: 8529  
Ion Ratio Lower Upper  
106 100  
91 212.1 159.8 239.8



#69  
o-Xylene  
Concen: 4.193 ug/l  
RT: 12.026 min Scan# 1674  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion:106 Resp: 16953  
Ion Ratio Lower Upper  
106 100  
91 215.9 107.2 321.6

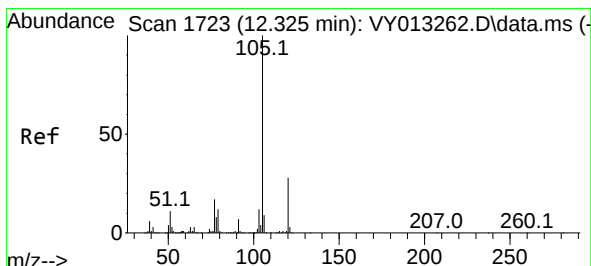
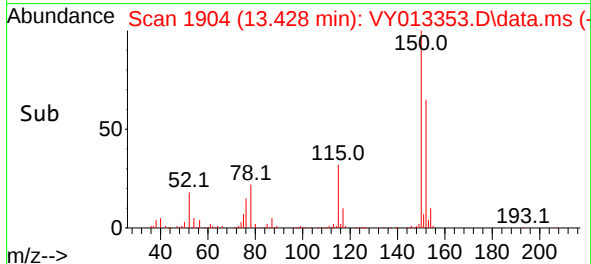
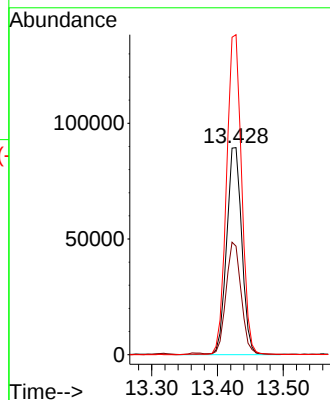
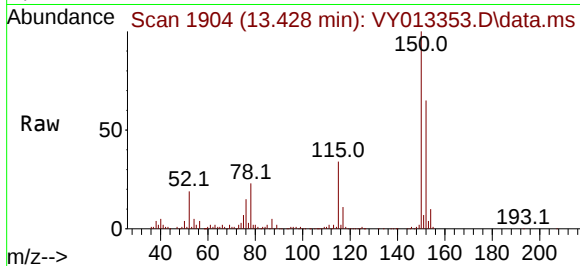




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1903  
Delta R.T. 0.006 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

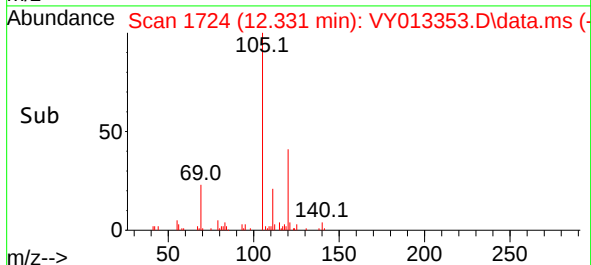
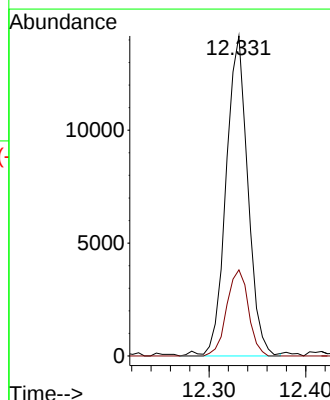
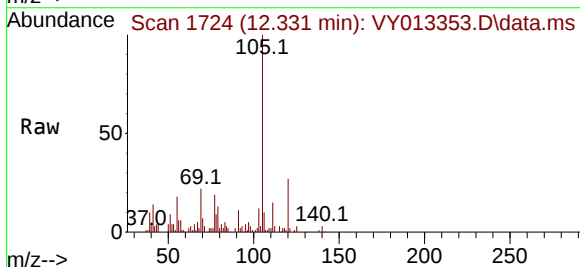
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1

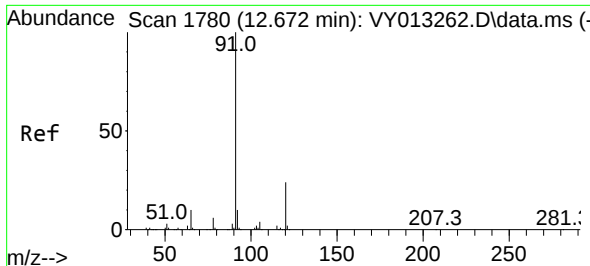
Tgt Ion:152 Resp: 143690  
Ion Ratio Lower Upper  
152 100  
115 54.3 27.1 81.3  
150 153.5 0.0 347.8



#73  
Isopropylbenzene  
Concen: 2.251 ug/l  
RT: 12.331 min Scan# 1724  
Delta R.T. 0.006 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion:105 Resp: 22187  
Ion Ratio Lower Upper  
105 100  
120 26.7 13.4 40.2

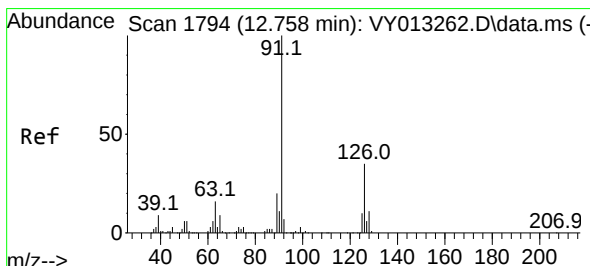
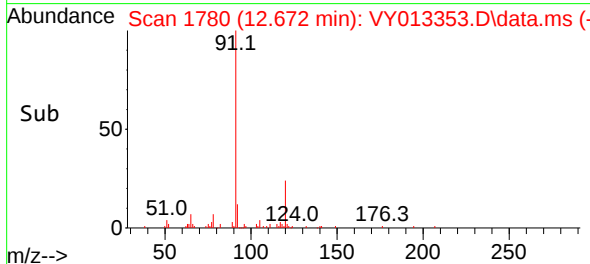
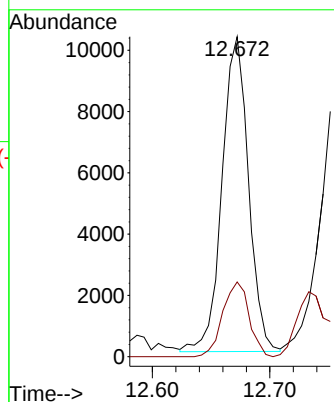
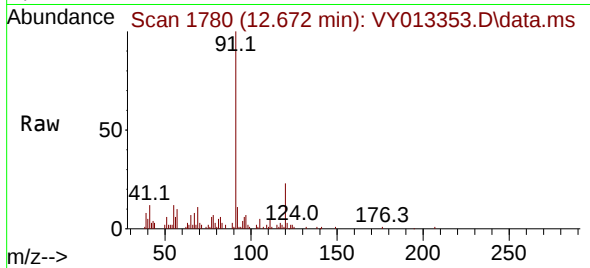




#78  
n-propylbenzene  
Concen: 1.322 ug/l  
RT: 12.672 min Scan# 1780  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

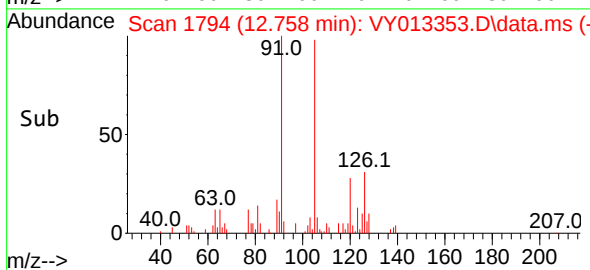
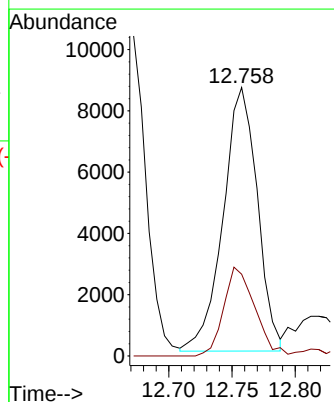
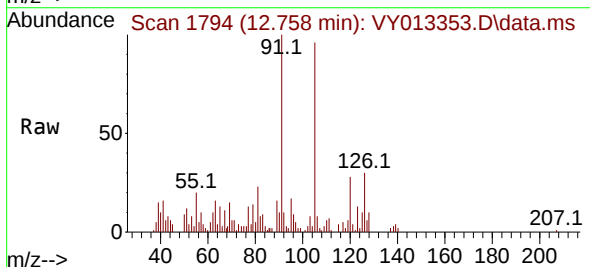
Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1

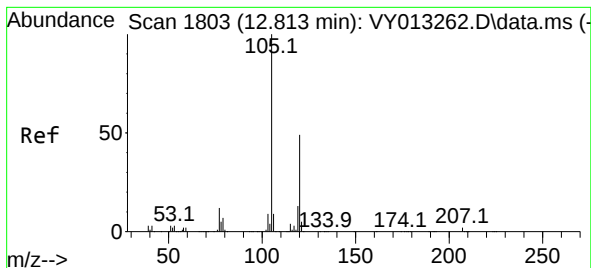
Tgt Ion: 91 Resp: 16095  
Ion Ratio Lower Upper  
91 100  
120 23.6 11.6 34.8



#79  
2-Chlorotoluene  
Concen: 2.370 ug/l  
RT: 12.758 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Tgt Ion: 91 Resp: 16240  
Ion Ratio Lower Upper  
91 100  
126 30.4 17.4 52.2





#80

1,3,5-Trimethylbenzene

Concen: 1.542 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. -0.000 min

Lab File: VY013353.D

Acq: 19 Apr 2023 18:16

Instrument :

MSVOA\_Y

ClientSampleId :

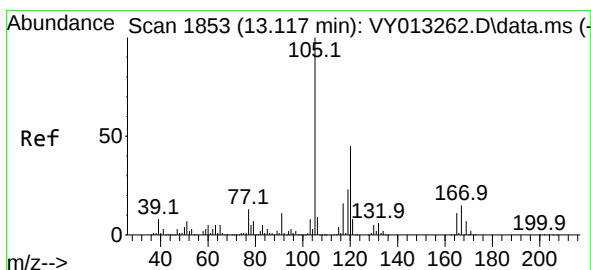
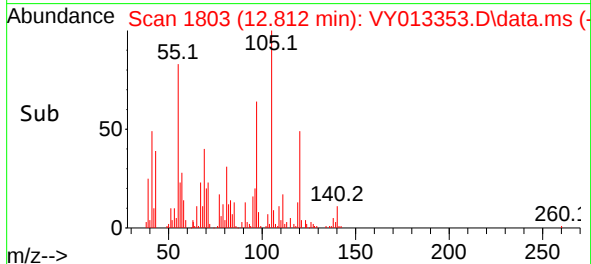
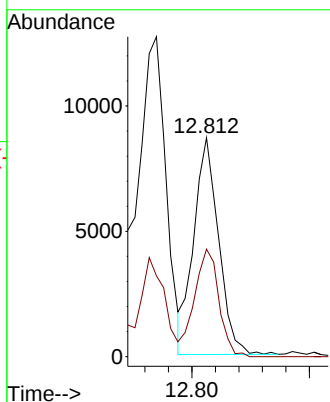
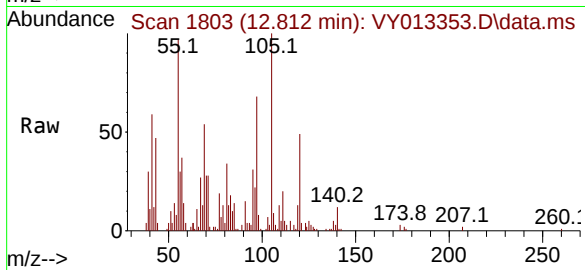
20230291-25-1

Tgt Ion:105 Resp: 12732

Ion Ratio Lower Upper

105 100

120 48.6 24.8 74.4



#84

1,2,4-Trimethylbenzene

Concen: 8.629 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VY013353.D

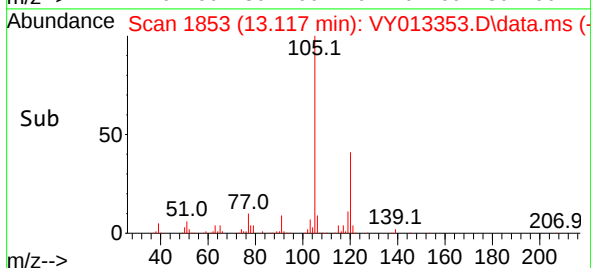
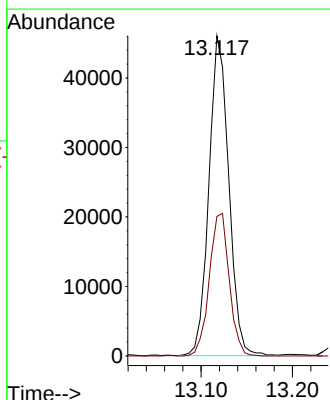
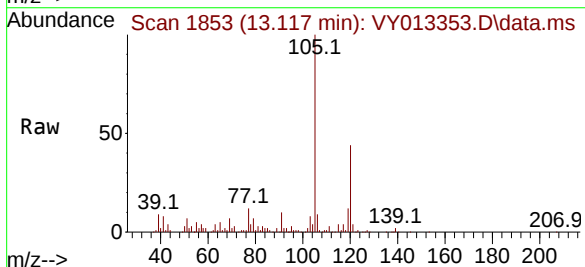
Acq: 19 Apr 2023 18:16

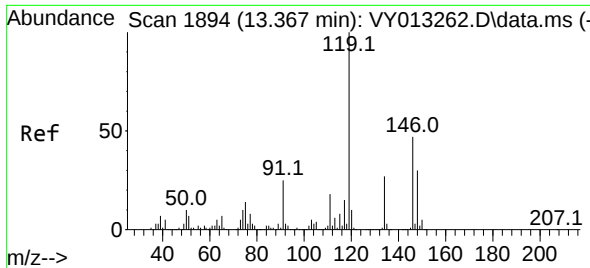
Tgt Ion:105 Resp: 69328

Ion Ratio Lower Upper

105 100

120 44.7 23.0 69.0

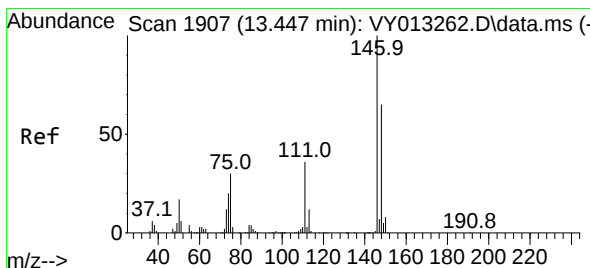
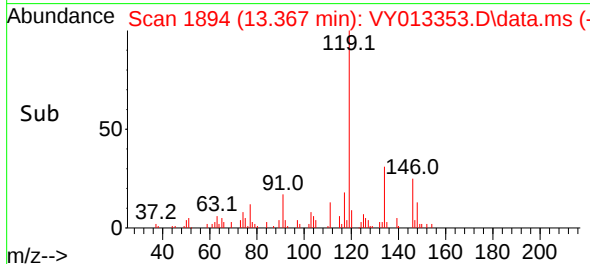
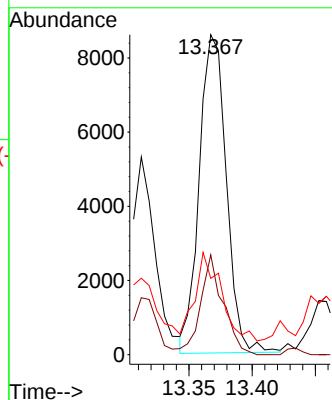
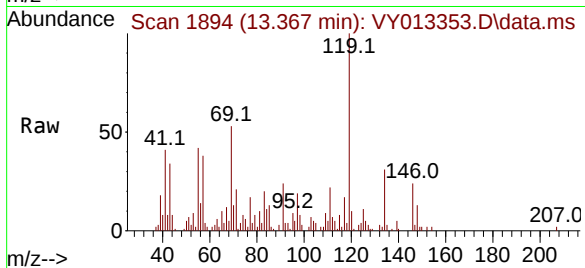




#86  
 p-Isopropyltoluene  
 Concen: 1.472 ug/l  
 RT: 13.367 min Scan# 1894  
 Delta R.T. -0.000 min  
 Lab File: VY013353.D  
 Acq: 19 Apr 2023 18:16

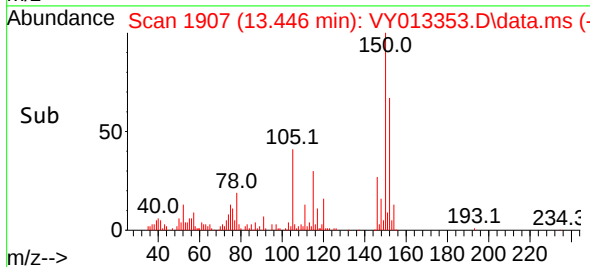
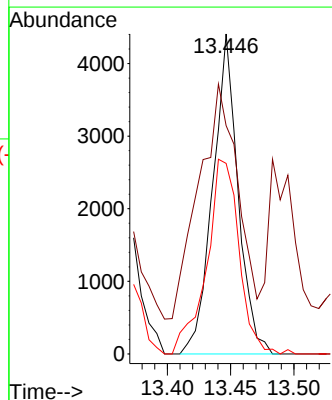
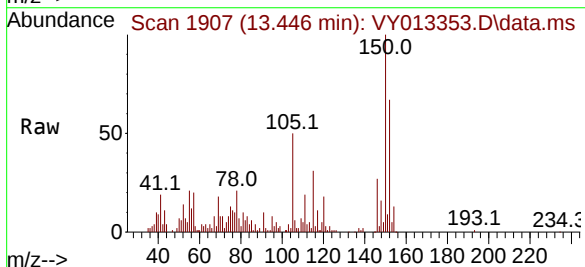
Instrument :  
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 ClientSampleId :  
 20230291-25-1

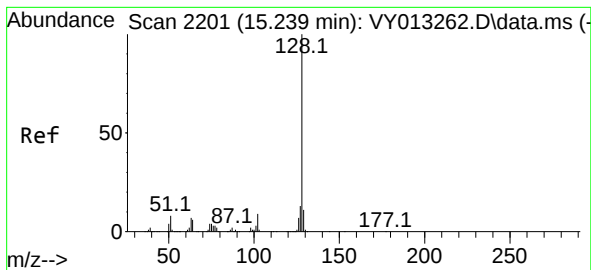
Tgt Ion:119 Resp: 12797  
 Ion Ratio Lower Upper  
 119 100  
 134 26.4 13.2 39.6  
 91 0.0 11.8 35.3#



#88  
 1,4-Dichlorobenzene  
 Concen: 1.274 ug/l  
 RT: 13.446 min Scan# 1907  
 Delta R.T. -0.000 min  
 Lab File: VY013353.D  
 Acq: 19 Apr 2023 18:16

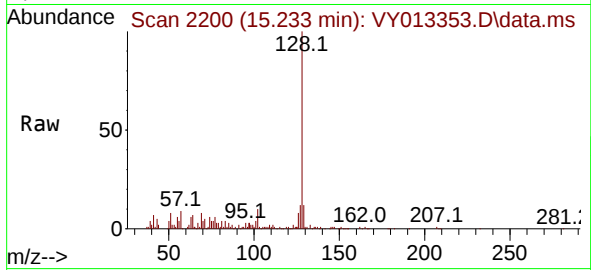
Tgt Ion:146 Resp: 6117  
 Ion Ratio Lower Upper  
 146 100  
 111 112.0 18.6 55.8#  
 148 78.1 31.5 94.5





#95  
Naphthalene  
Concen: 10.850 ug/l  
RT: 15.233 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VY013353.D  
Acq: 19 Apr 2023 18:16

Instrument :  
MSVOA\_Y  
ClientSampleId :  
20230291-25-1



Tgt Ion:128 Resp: 51470  
Ion Ratio Lower Upper  
128 100  
127 15.5 10.3 15.5  
129 10.9 8.6 13.0

