

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032323\  
 Data File : VY013066.D  
 Acq On : 23 Mar 2023 17:35  
 Operator : KP/MD  
 Sample : 02070-01  
 Misc : 6.89g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SOILPILE-1-0323

Quant Time: Mar 24 05:05:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 03 01:13:13 2023  
 Response via : Initial Calibration

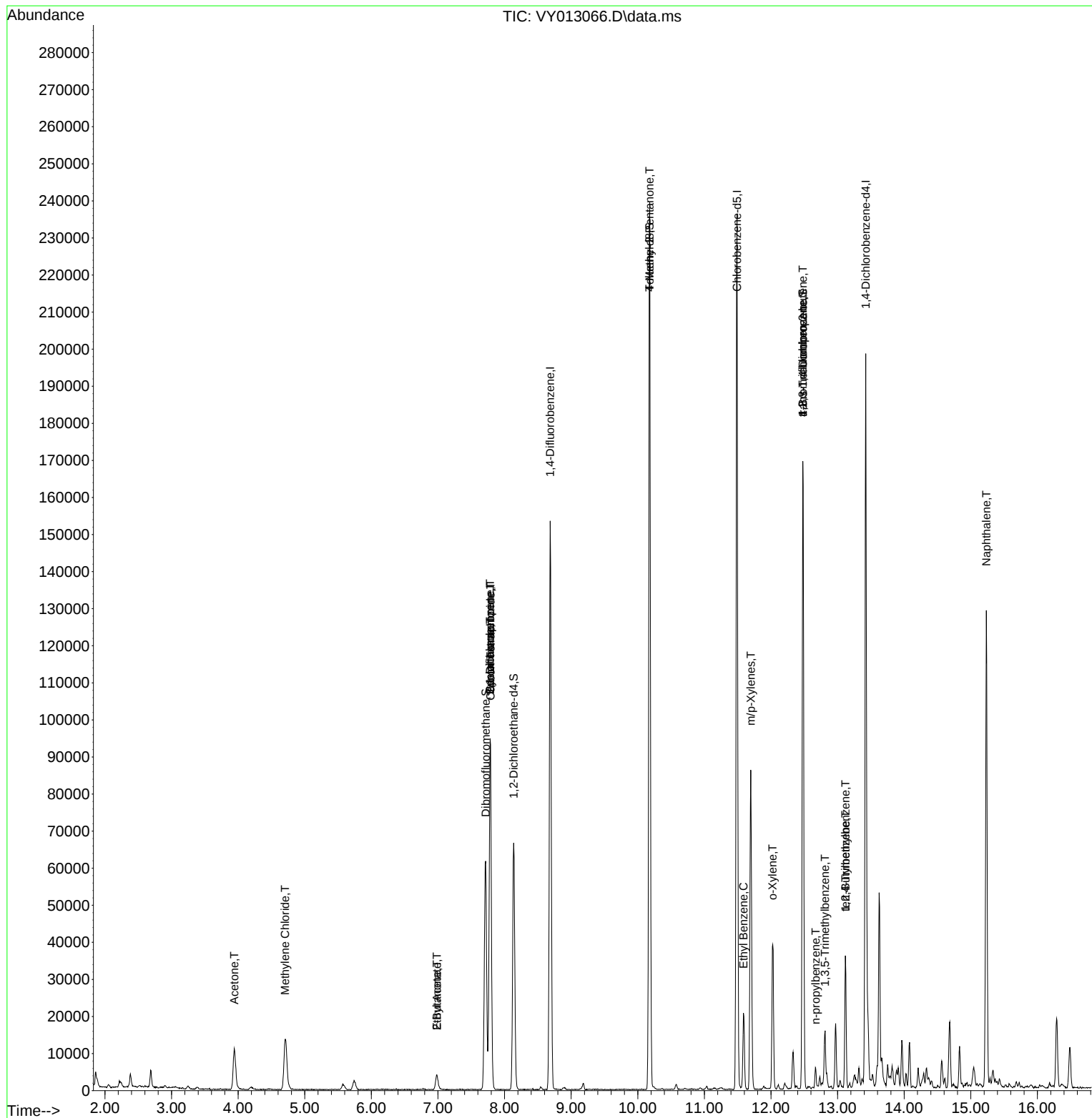
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 7.783          | 168  | 71833               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685          | 114  | 121531              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490         | 117  | 118162              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 44715               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.137          | 65   | 52669               | 73.848    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 147.700% |           |        |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 42813               | 58.373    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 116.740% |           |        |          |
| 50) Toluene-d8                | 10.179         | 98   | 149544              | 55.773    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 111.540% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.477         | 95   | 47357               | 52.328    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 104.660% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 11) Tert butyl alcohol        | 4.942          | 59   | 28                  | Below Cal | #      | 74       |
| 16) Acetone                   | 3.942          | 43   | 19925               | 71.176    | ug/l   | 98       |
| 20) Methylene Chloride        | 4.704          | 84   | 9591                | 6.559     | ug/l   | 94       |
| 25) 2-Butanone                | 6.984          | 43   | 6931                | 19.990    | ug/l   | 90       |
| 31) Cyclohexane               | 7.783          | 56   | 2051                | 1.502     | ug/l # | 19       |
| 36) 1,1-Dichloropropene       | 7.783          | 75   | 5818                | 4.734     | ug/l # | 50       |
| 37) Ethyl Acetate             | 6.984          | 43   | 6931                | 8.947     | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 7118                | 5.608     | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.179         | 43   | 959                 | 1.279     | ug/l # | 1        |
| 67) Ethyl Benzene             | 11.587         | 91   | 13529               | 3.103     | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.697         | 106  | 24208               | 14.433    | ug/l   | 99       |
| 69) o-Xylene                  | 12.026         | 106  | 10722               | 6.849     | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.477         | 75   | 25984               | 48.662    | ug/l # | 100      |
| 78) n-propylbenzene           | 12.672         | 91   | 4462                | 1.142     | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.813         | 105  | 6008                | 2.297     | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477         | 75   | 25984               | 100.829   | ug/l # | 13       |
| 83) tert-Butylbenzene         | 13.117         | 119  | 2349                | 1.041     | ug/l # | 61       |
| 84) 1,2,4-Trimethylbenzene    | 13.117         | 105  | 17930               | 7.011     | ug/l   | 97       |
| 95) Naphthalene               | 15.233         | 128  | 95030               | 57.384    | ug/l   | 99       |
| -----                         |                |      |                     |           |        |          |

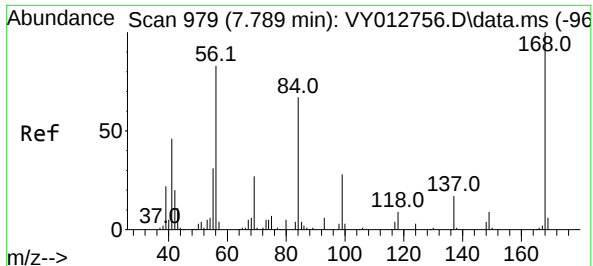
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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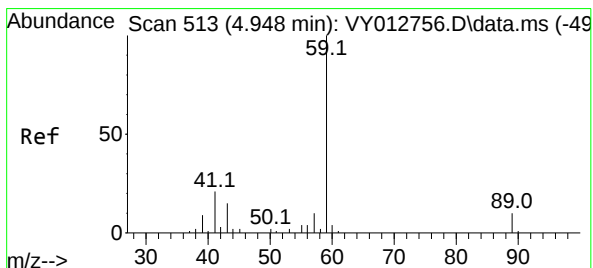
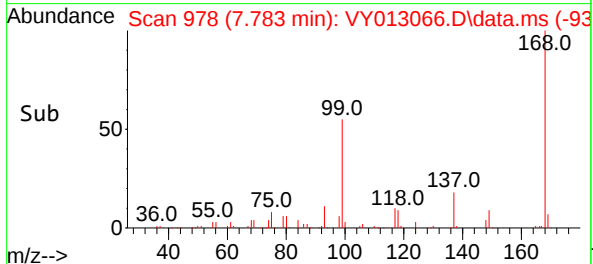
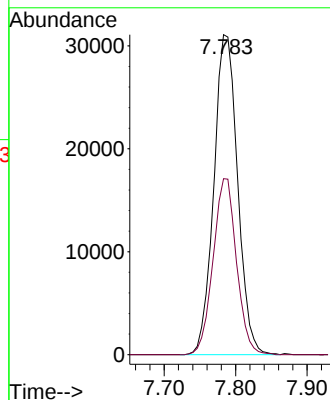
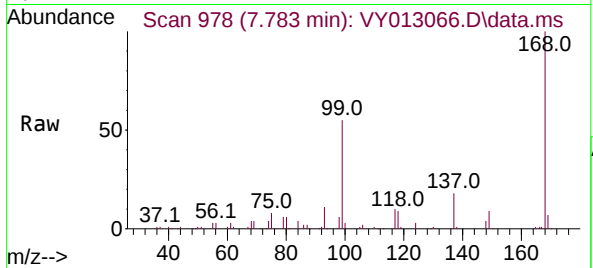




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

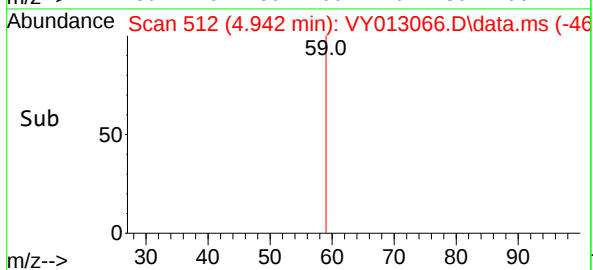
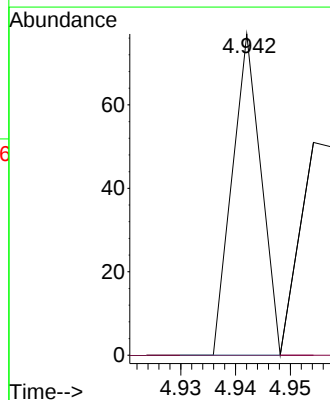
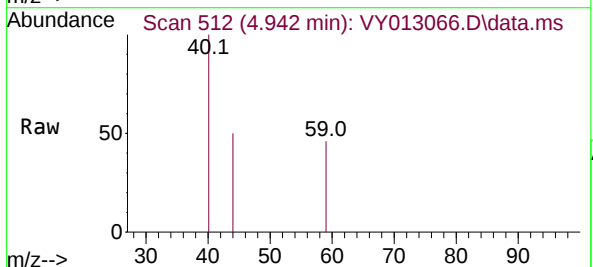
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SOILPILE-1-0323

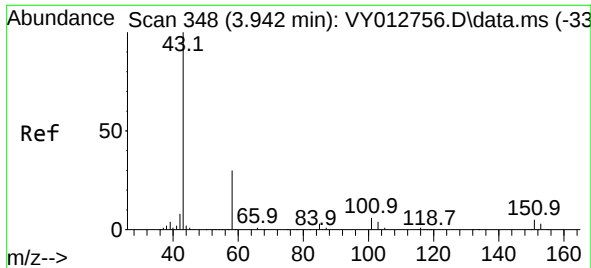
Tgt Ion:168 Resp: 71833  
Ion Ratio Lower Upper  
168 100  
99 55.0 41.7 62.5



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.942 min Scan# 512  
Delta R.T. -0.006 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

Tgt Ion: 59 Resp: 28  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.7 11.5#

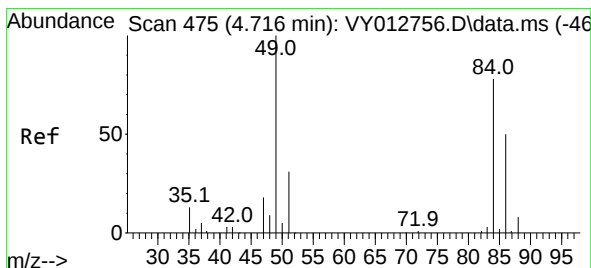
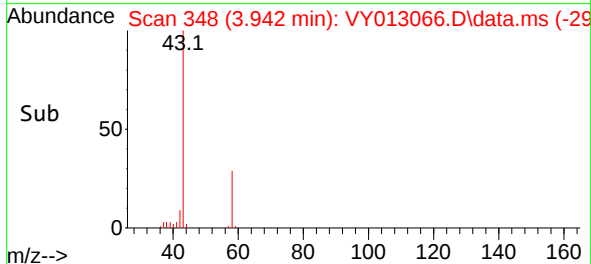
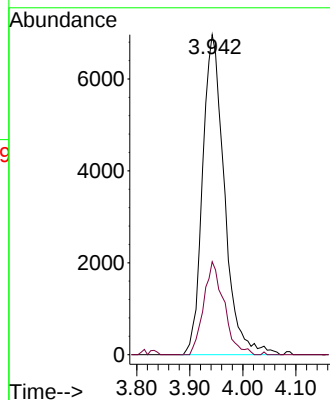
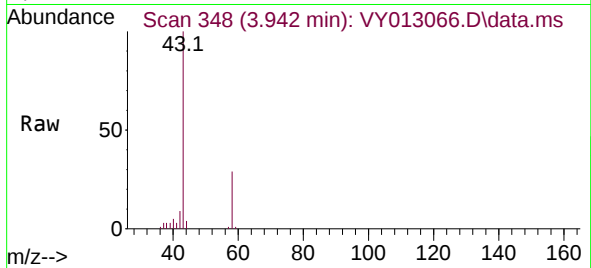




#16  
Acetone  
Concen: 71.176 ug/l  
RT: 3.942 min Scan# 348  
Delta R.T. 0.000 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

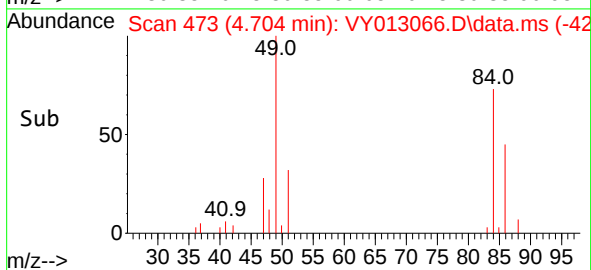
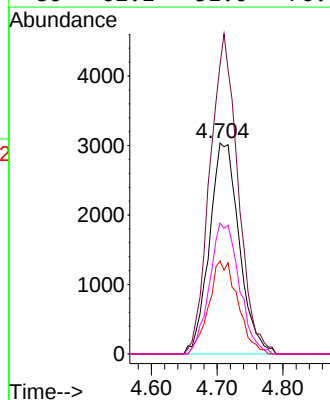
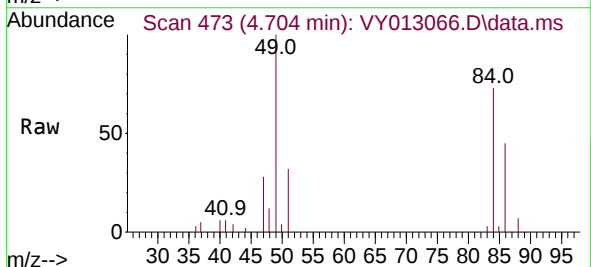
Instrument :  
MSVOA\_Y  
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SOILPILE-1-0323

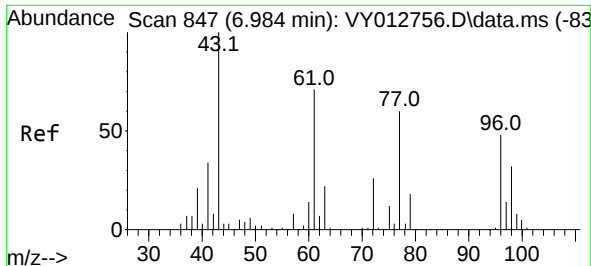
Tgt Ion: 43 Resp: 19925  
Ion Ratio Lower Upper  
43 100  
58 29.1 24.2 36.2



#20  
Methylene Chloride  
Concen: 6.559 ug/l  
RT: 4.704 min Scan# 473  
Delta R.T. -0.012 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

Tgt Ion: 84 Resp: 9591  
Ion Ratio Lower Upper  
84 100  
49 137.2 102.6 154.0  
51 44.0 31.9 47.9  
86 62.1 51.0 76.6





#25

2-Butanone

Concen: 19.990 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

Instrument :

MSVOA\_Y

ClientSampleId :

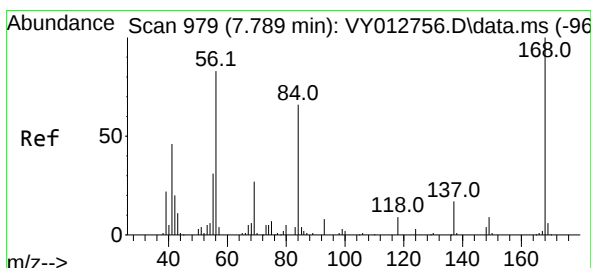
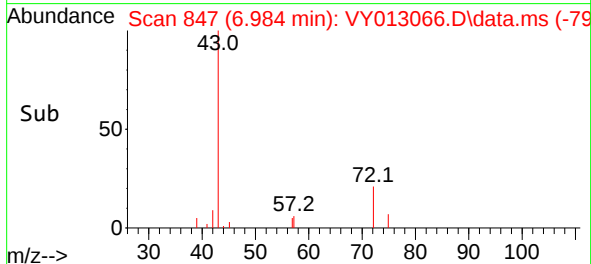
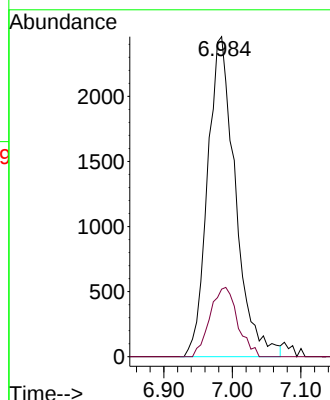
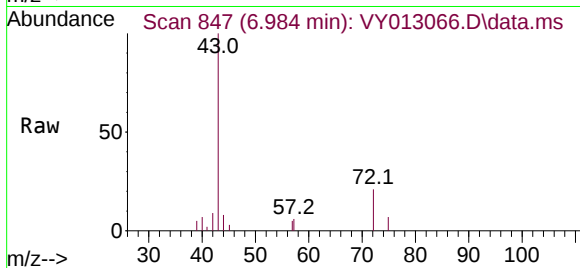
SOILPILE-1-0323

Tgt Ion: 43 Resp: 6931

Ion Ratio Lower Upper

43 100

72 21.1 21.0 31.4



#31

Cyclohexane

Concen: 1.502 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.006 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

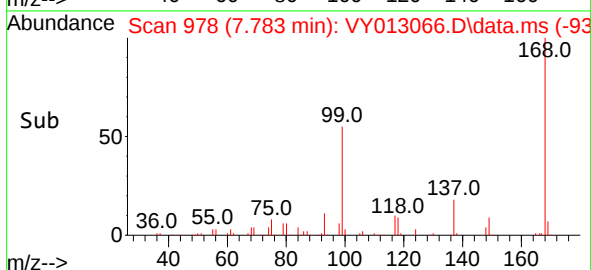
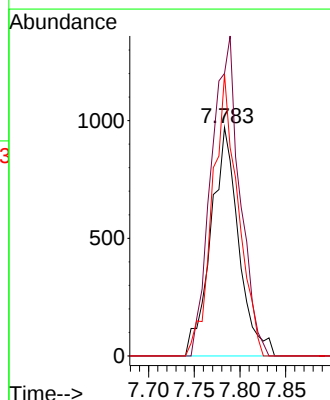
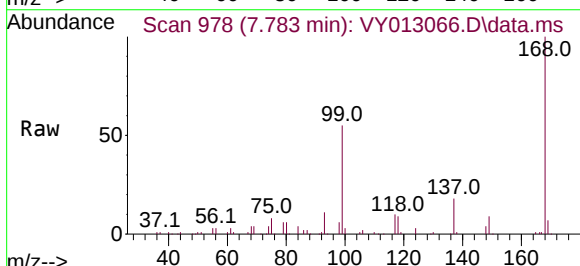
Tgt Ion: 56 Resp: 2051

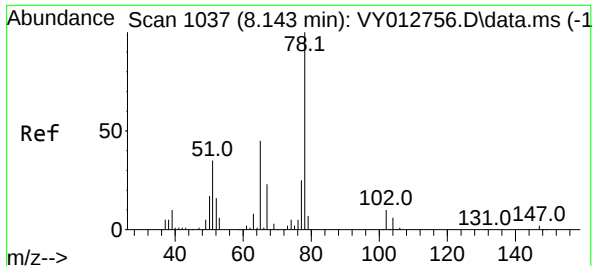
Ion Ratio Lower Upper

56 100

69 123.7 25.7 38.5#

84 123.3 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 73.848 ug/l

RT: 8.137 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

Instrument :

MSVOA\_Y

ClientSampleId :

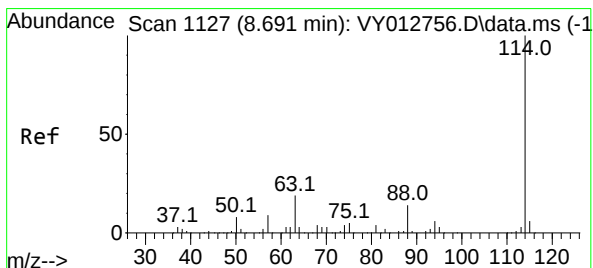
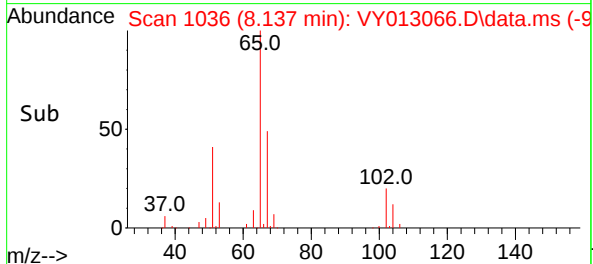
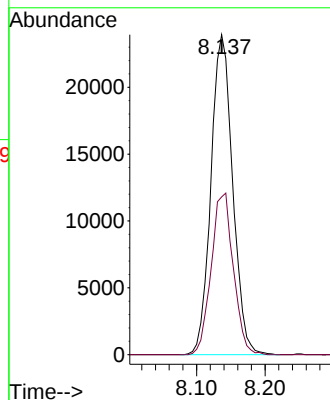
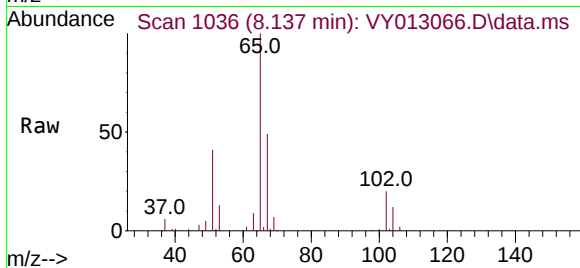
SOILPILE-1-0323

Tgt Ion: 65 Resp: 52669

Ion Ratio Lower Upper

65 100

67 51.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

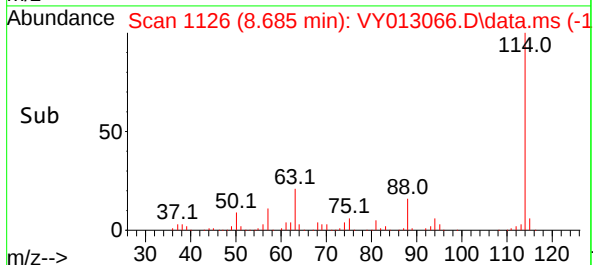
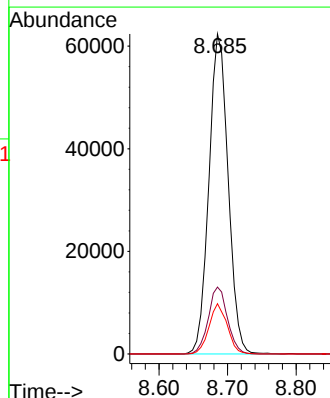
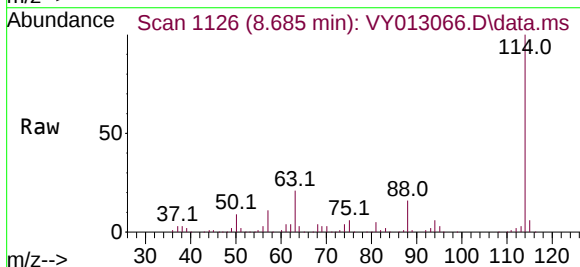
Tgt Ion: 114 Resp: 121531

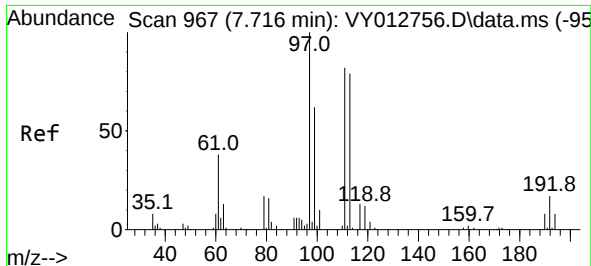
Ion Ratio Lower Upper

114 100

63 20.9 0.0 37.4

88 15.7 0.0 28.6

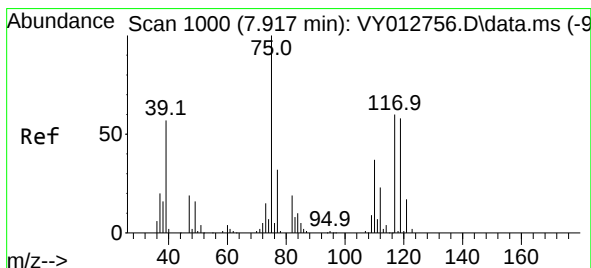
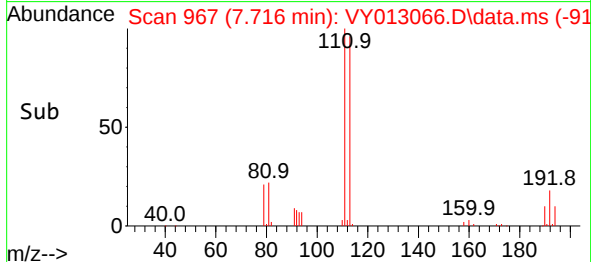
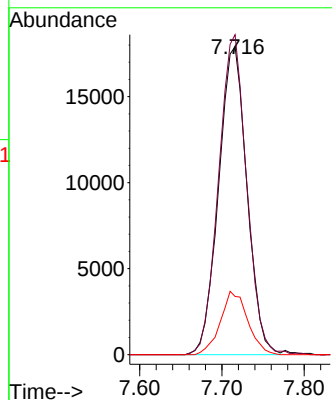
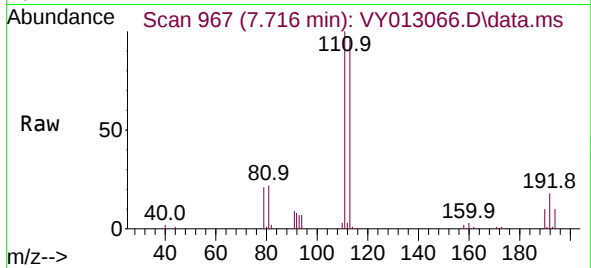




#35  
Dibromofluoromethane  
Concen: 58.373 ug/l  
RT: 7.716 min Scan# 90  
Delta R.T. 0.000 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

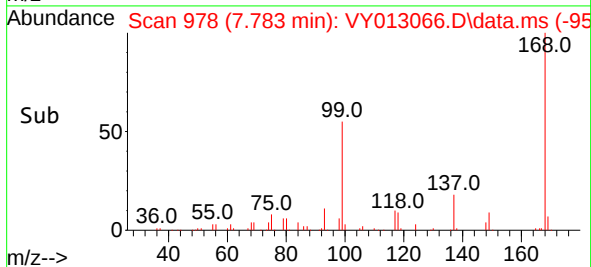
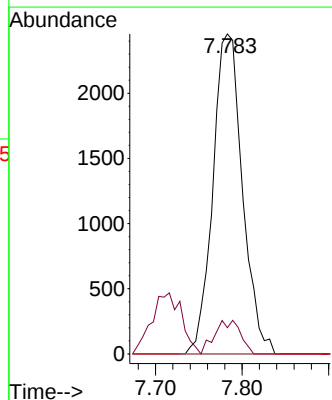
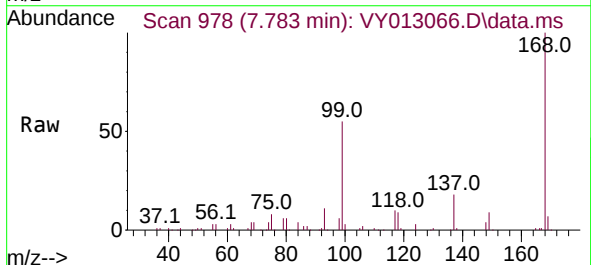
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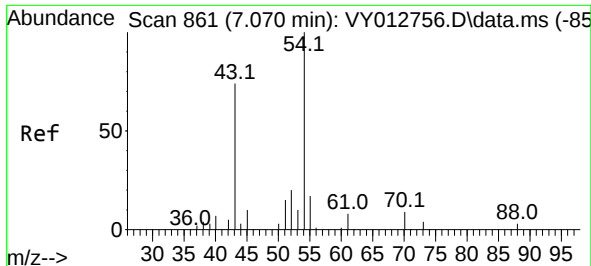
Tgt Ion:113 Resp: 42813  
Ion Ratio Lower Upper  
113 100  
111 103.1 82.2 123.2  
192 19.9 16.8 25.2



#36  
1,1-Dichloropropene  
Concen: 4.734 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.134 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

Tgt Ion: 75 Resp: 5818  
Ion Ratio Lower Upper  
75 100  
110 9.1 17.8 53.3#  
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 8.947 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.085 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

Instrument :

MSVOA\_Y

ClientSampleId :

SOILPILE-1-0323

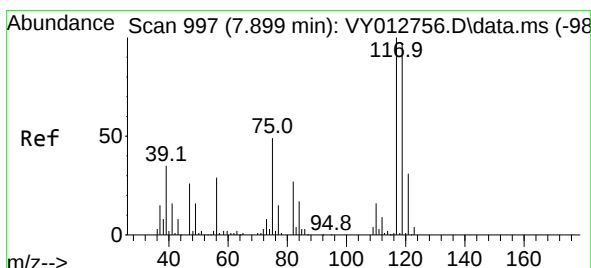
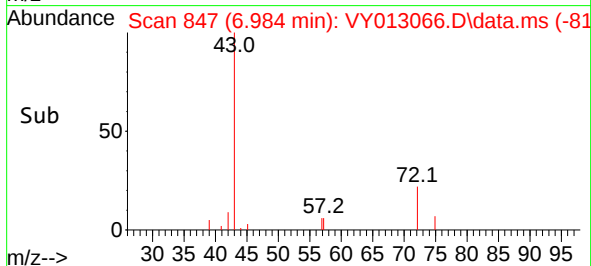
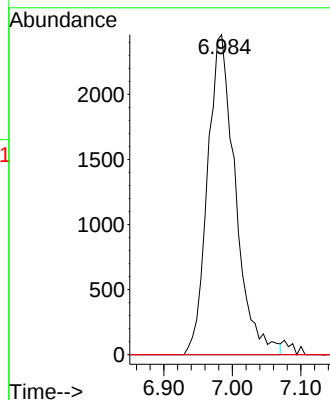
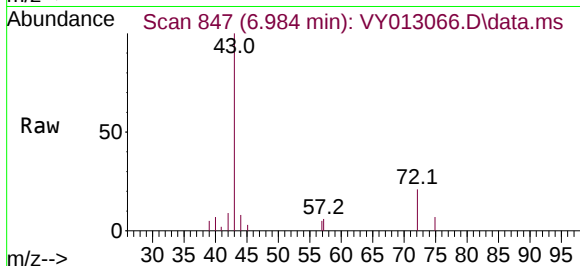
Tgt Ion: 43 Resp: 6931

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

70 0.0 7.8 11.8#



#38

Carbon Tetrachloride

Concen: 5.608 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

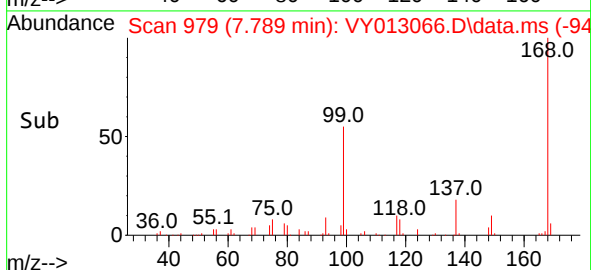
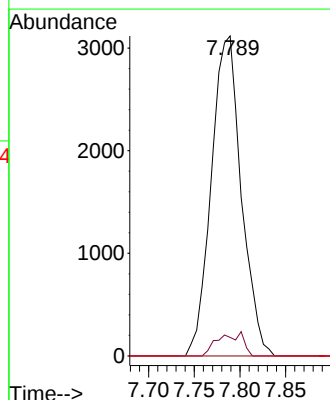
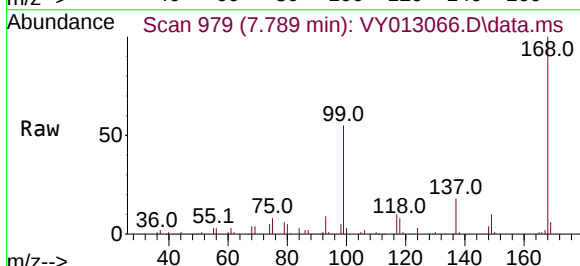
Tgt Ion: 117 Resp: 7118

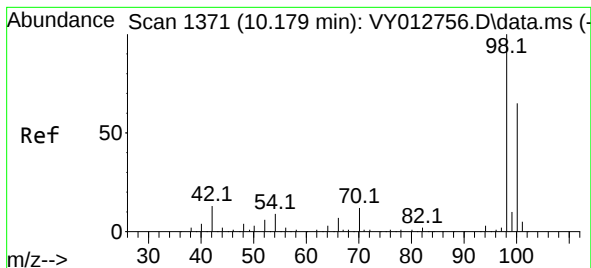
Ion Ratio Lower Upper

117 100

119 5.8 77.2 115.8#

121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 55.773 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

Instrument :

MSVOA\_Y

ClientSampleId :

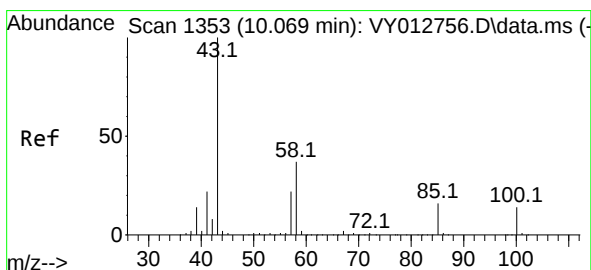
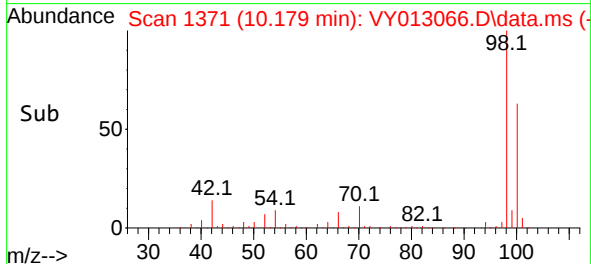
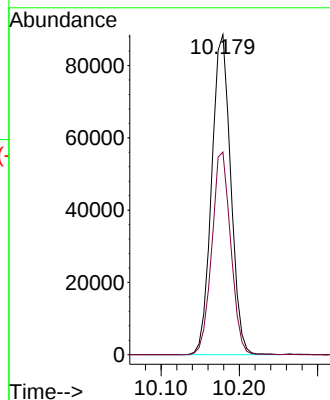
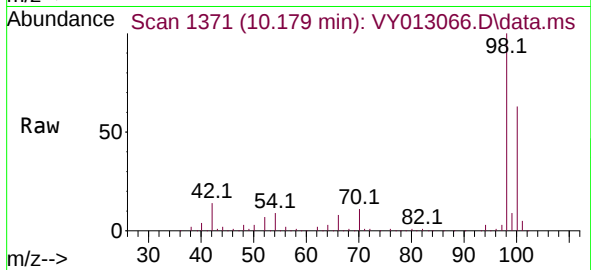
SOILPILE-1-0323

Tgt Ion: 98 Resp: 149544

Ion Ratio Lower Upper

98 100

100 62.8 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.279 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.110 min

Lab File: VY013066.D

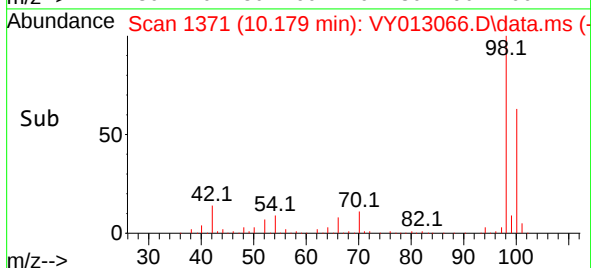
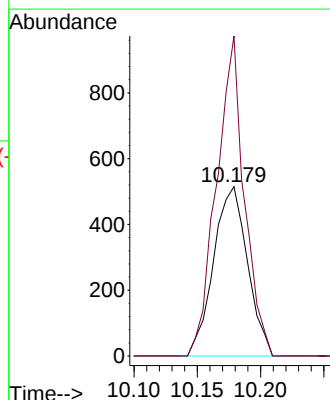
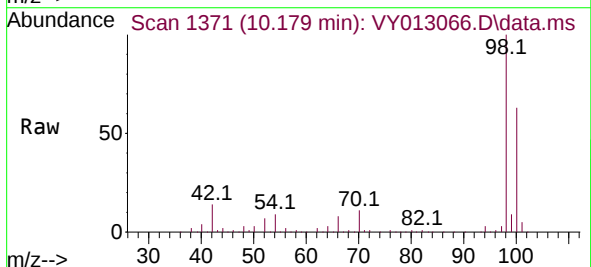
Acq: 23 Mar 2023 17:35

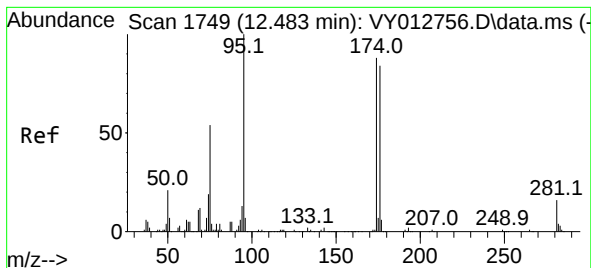
Tgt Ion: 43 Resp: 959

Ion Ratio Lower Upper

43 100

58 155.2 29.8 44.6#

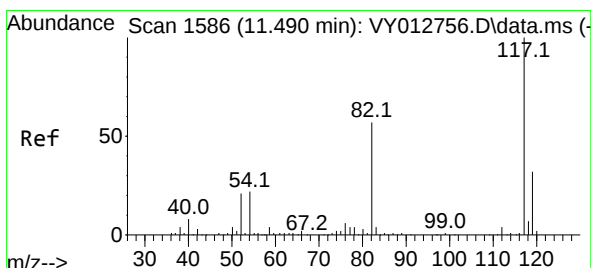
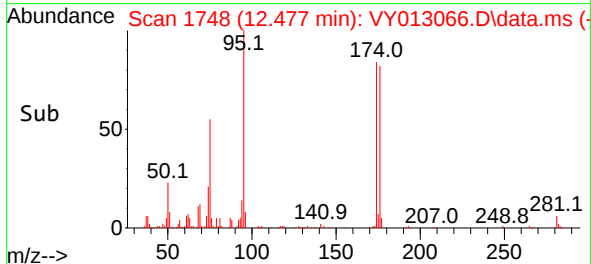
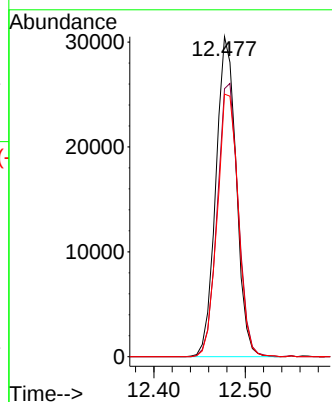
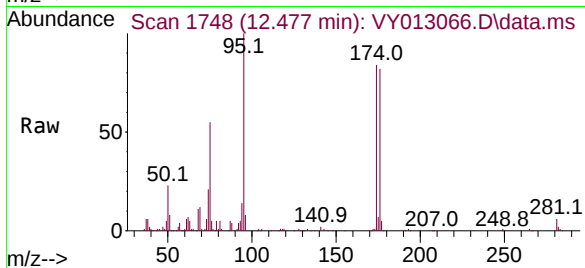




#62  
4-Bromofluorobenzene  
Concen: 52.328 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

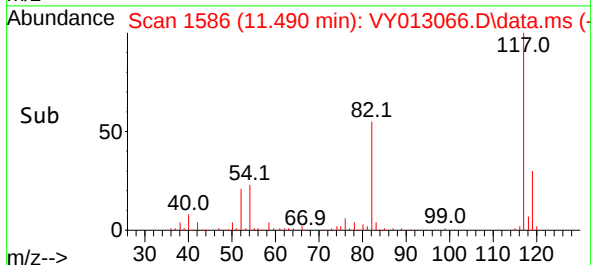
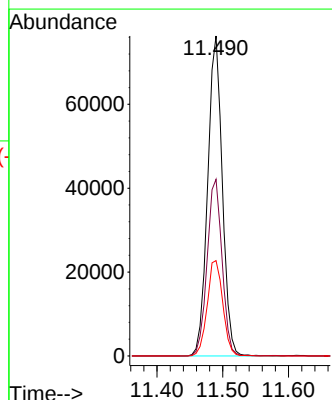
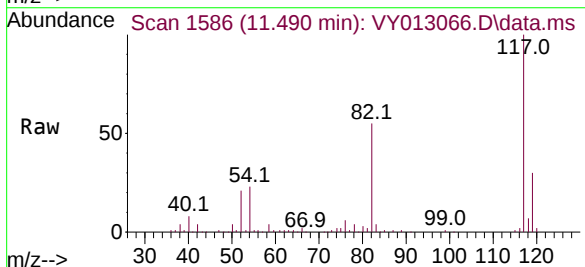
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SOILPILE-1-0323

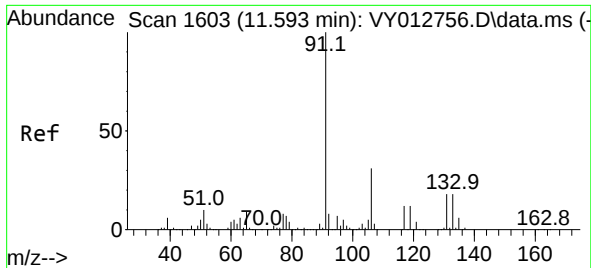
Tgt Ion: 95 Resp: 47357  
Ion Ratio Lower Upper  
95 100  
174 87.6 0.0 176.6  
176 84.9 0.0 170.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

Tgt Ion: 117 Resp: 118162  
Ion Ratio Lower Upper  
117 100  
82 55.2 45.4 68.0  
119 29.8 25.6 38.4





#67

Ethyl Benzene

Concen: 3.103 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. -0.006 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

Instrument :

MSVOA\_Y

ClientSampleId :

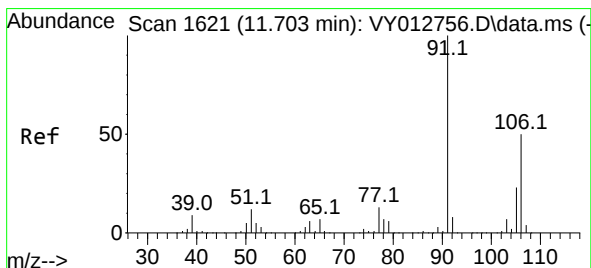
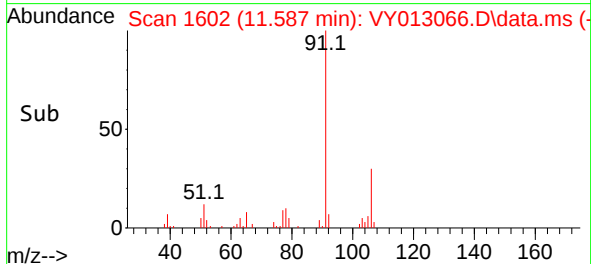
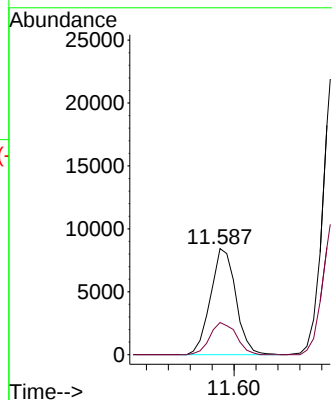
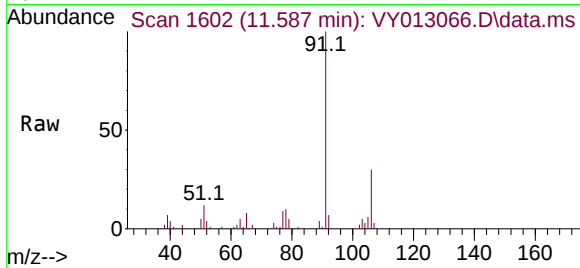
SOILPILE-1-0323

Tgt Ion: 91 Resp: 13529

Ion Ratio Lower Upper

91 100

106 30.3 25.1 37.7



#68

m/p-Xylenes

Concen: 14.433 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY013066.D

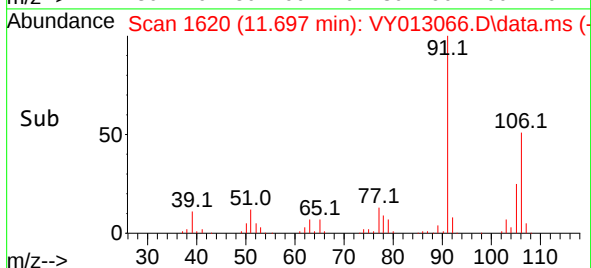
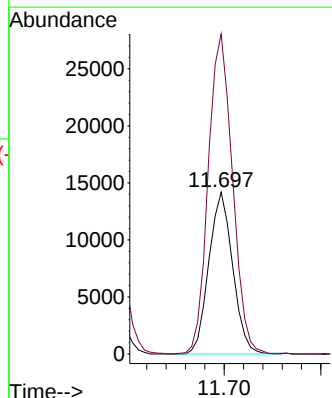
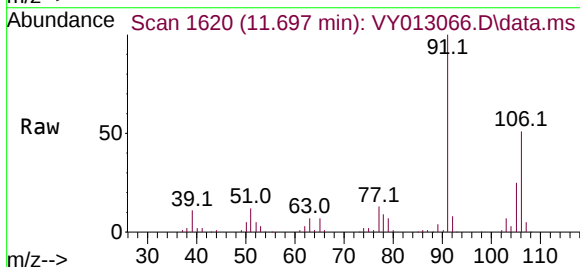
Acq: 23 Mar 2023 17:35

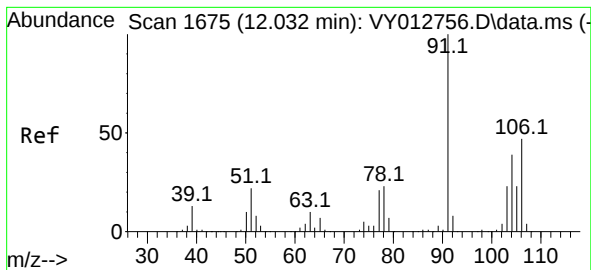
Tgt Ion: 106 Resp: 24208

Ion Ratio Lower Upper

106 100

91 202.0 159.8 239.8





#69

o-Xylene

Concen: 6.849 ug/l

RT: 12.026 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

Instrument :

MSVOA\_Y

ClientSampleId :

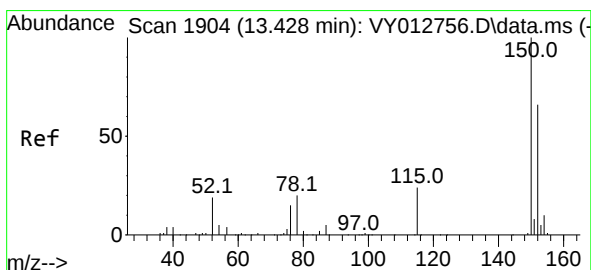
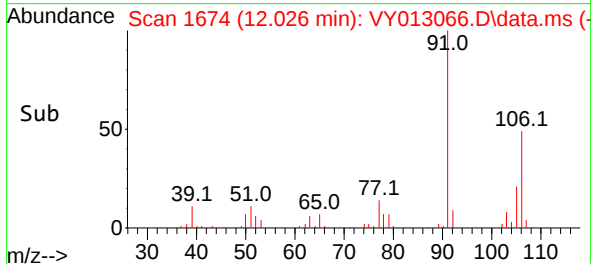
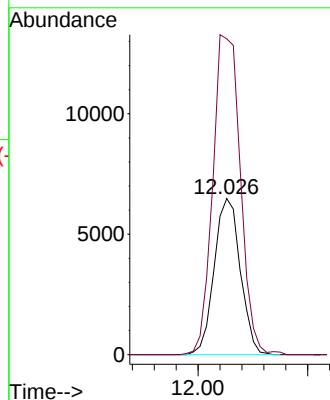
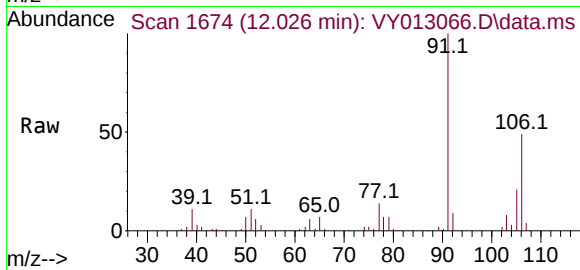
SOILPILE-1-0323

Tgt Ion:106 Resp: 10722

Ion Ratio Lower Upper

106 100

91 216.7 107.2 321.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

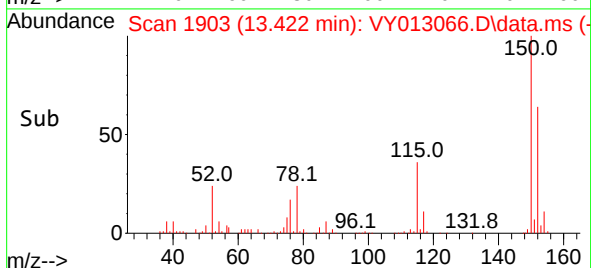
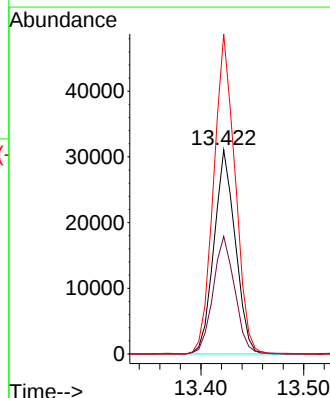
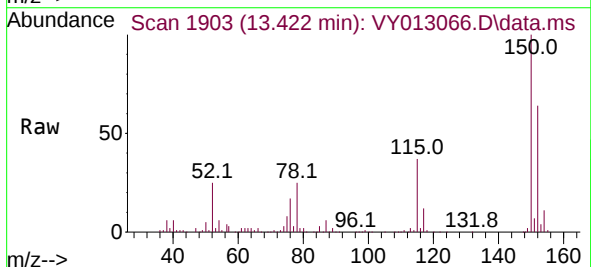
Tgt Ion:152 Resp: 44715

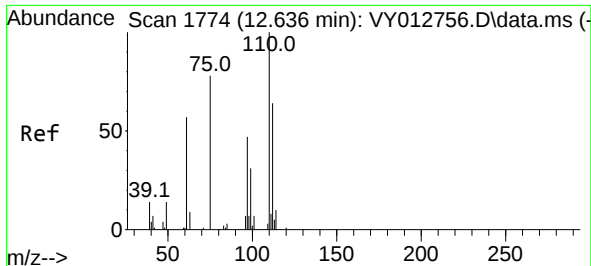
Ion Ratio Lower Upper

152 100

115 58.8 27.1 81.3

150 157.6 0.0 347.8

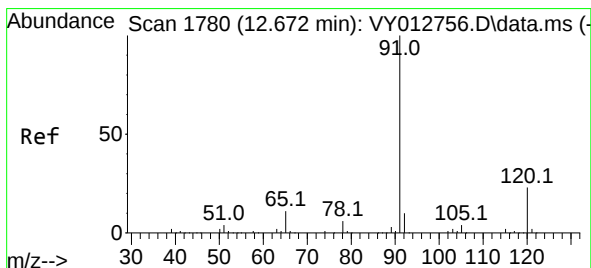
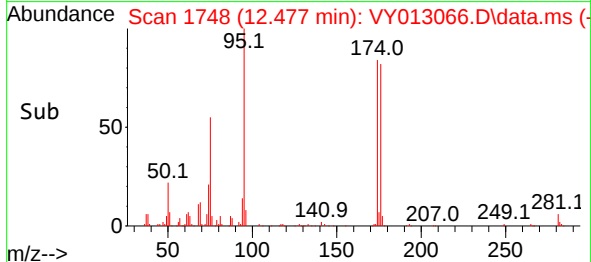
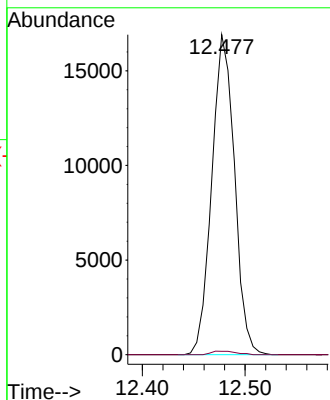
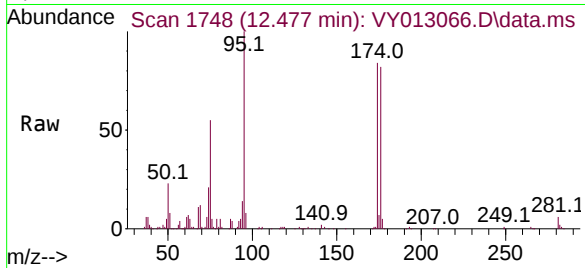




#76  
1,2,3-Trichloropropane  
Concen: 48.662 ug/l  
RT: 12.477 min Scan# 1774  
Delta R.T. -0.158 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

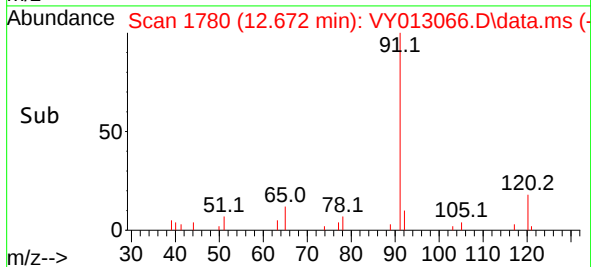
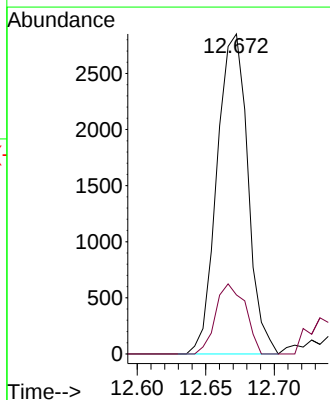
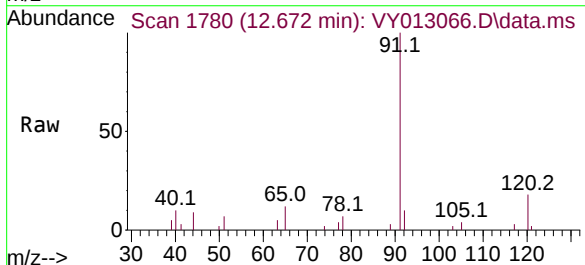
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SOILPILE-1-0323

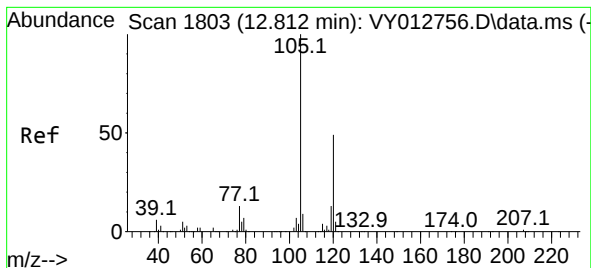
Tgt Ion: 75 Resp: 25984  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#



#78  
n-propylbenzene  
Concen: 1.142 ug/l  
RT: 12.672 min Scan# 1780  
Delta R.T. 0.000 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

Tgt Ion: 91 Resp: 4462  
Ion Ratio Lower Upper  
91 100  
120 21.1 11.6 34.8





#80

1,3,5-Trimethylbenzene

Concen: 2.297 ug/l

RT: 12.813 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

Instrument :

MSVOA\_Y

ClientSampleId :

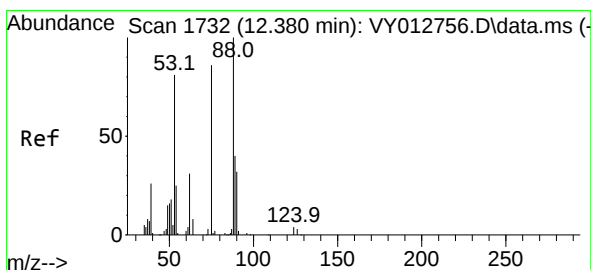
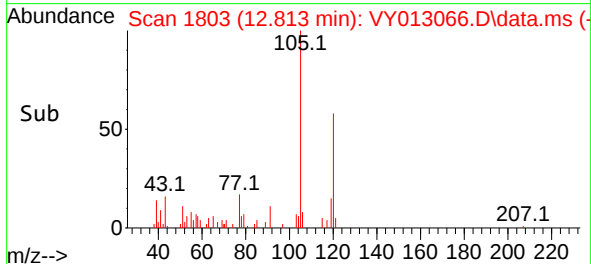
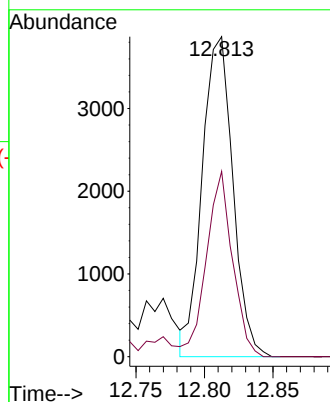
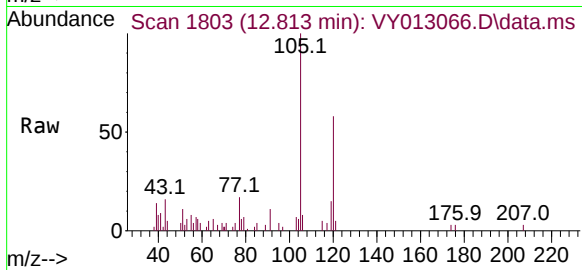
SOILPILE-1-0323

Tgt Ion:105 Resp: 6008

Ion Ratio Lower Upper

105 100

120 49.3 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 100.829 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

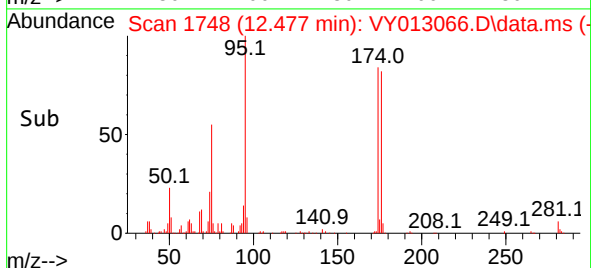
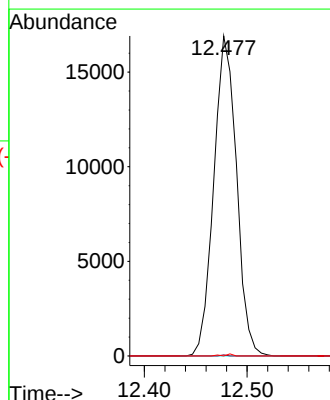
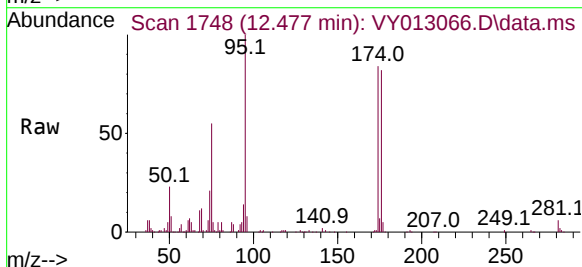
Tgt Ion: 75 Resp: 25984

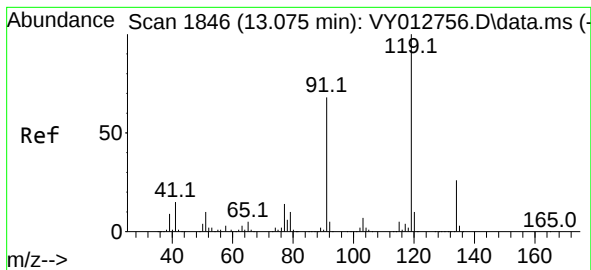
Ion Ratio Lower Upper

75 100

53 0.1 73.4 110.0#

89 0.2 36.6 55.0#





#83

tert-Butylbenzene

Concen: 1.041 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.043 min

Lab File: VY013066.D

Acq: 23 Mar 2023 17:35

Instrument :

MSVOA\_Y

ClientSampleId :

SOILPILE-1-0323

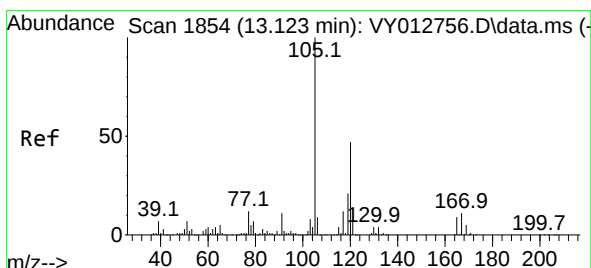
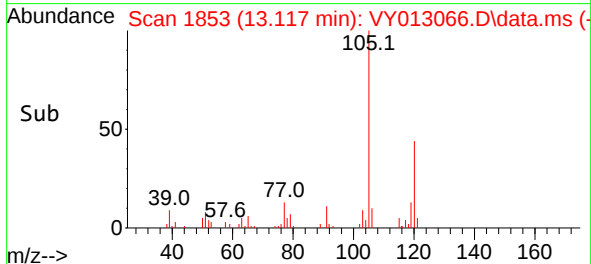
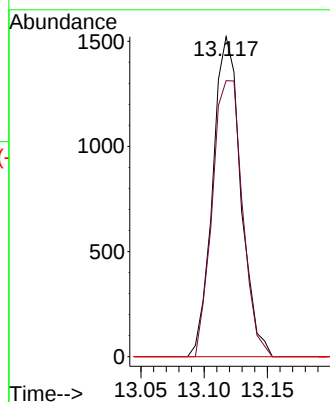
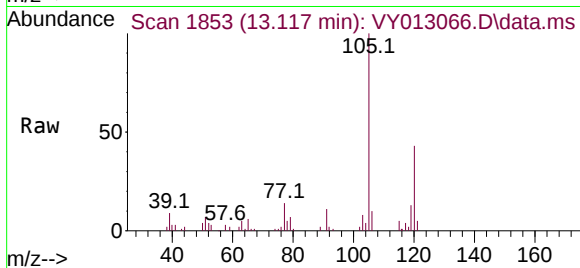
Tgt Ion:119 Resp: 2349

Ion Ratio Lower Upper

119 100

91 92.4 32.8 98.3

134 0.0 13.6 40.8#



#84

1,2,4-Trimethylbenzene

Concen: 7.011 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.006 min

Lab File: VY013066.D

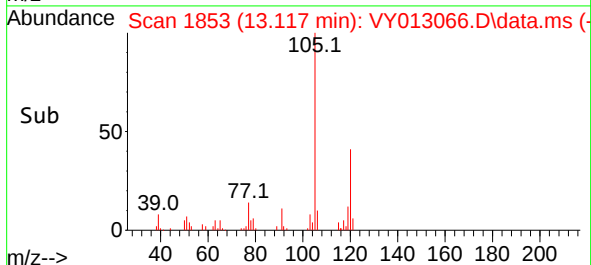
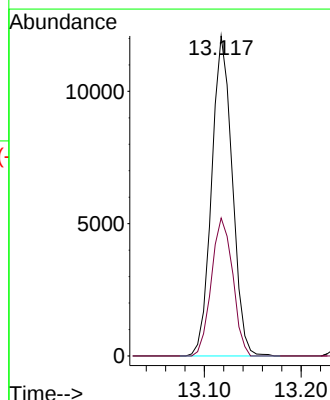
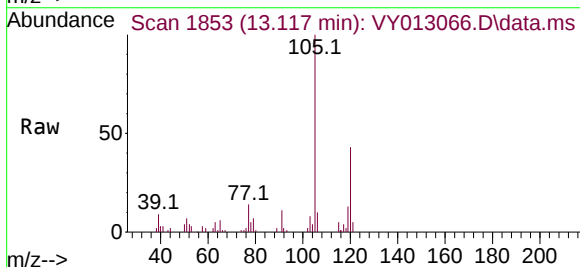
Acq: 23 Mar 2023 17:35

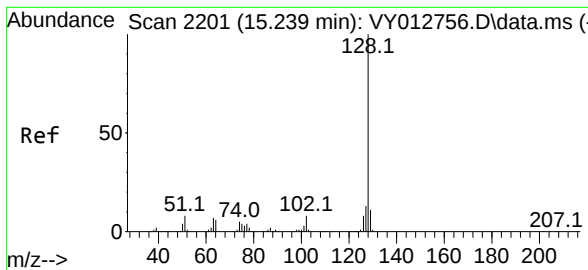
Tgt Ion:105 Resp: 17930

Ion Ratio Lower Upper

105 100

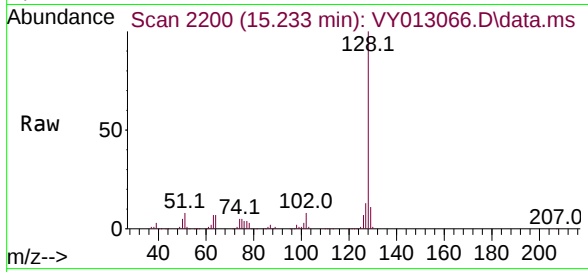
120 44.3 23.0 69.0





#95  
Naphthalene  
Concen: 57.384 ug/l  
RT: 15.233 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VY013066.D  
Acq: 23 Mar 2023 17:35

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SOILPILE-1-0323



Tgt Ion:128 Resp: 95030  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.3 15.5  
129 11.1 8.6 13.0

