

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021623\  
 Data File : VY012636.D  
 Acq On : 16 Feb 2023 16:51  
 Operator : KP/MD  
 Sample : 01581-04  
 Misc : 4.87g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MH-C

Quant Time: Feb 16 21:59:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020723S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 08 01:09:03 2023  
 Response via : Initial Calibration

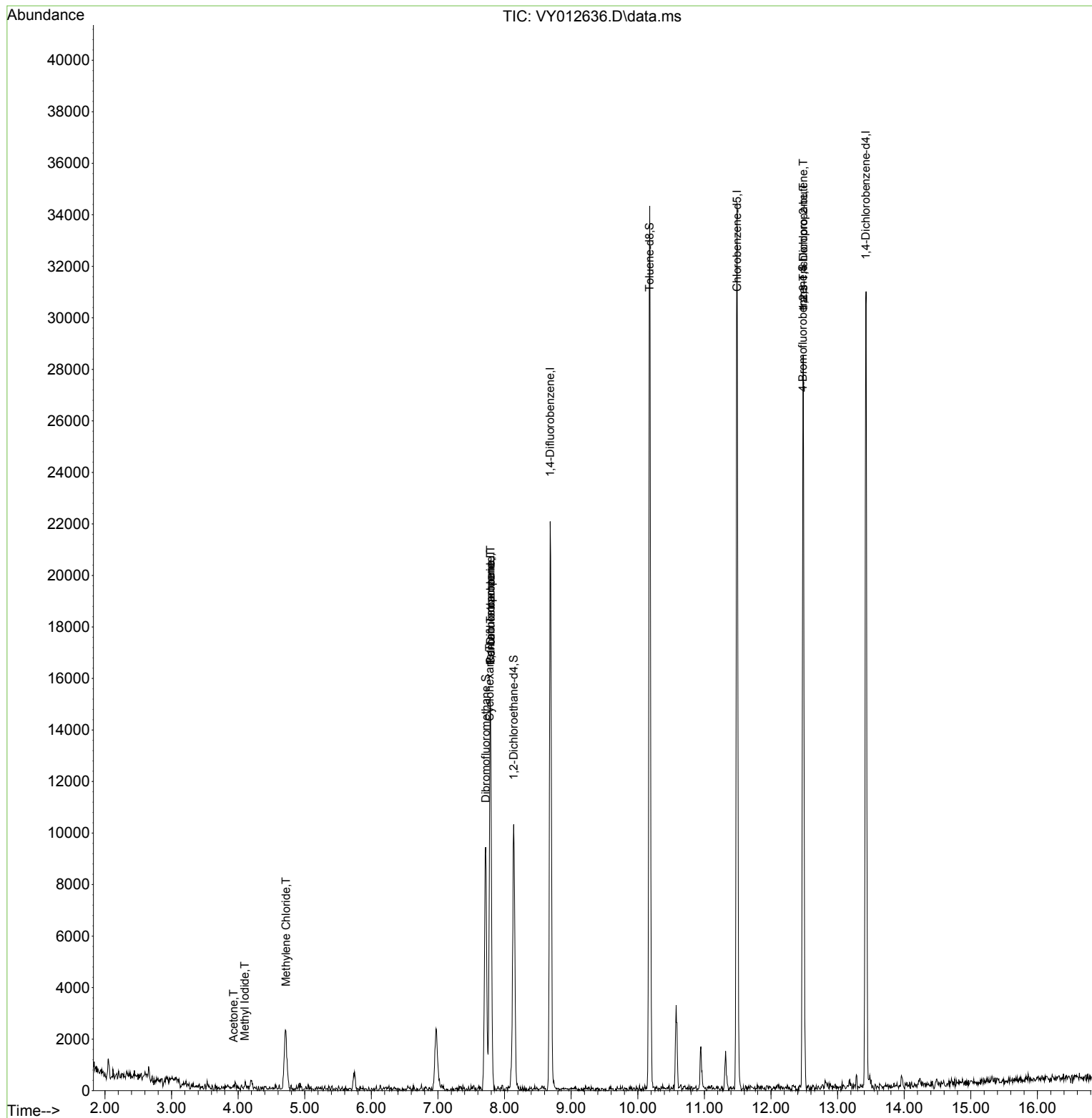
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.789  | 168   | 13238    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 20926    | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 20738    | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 9456     | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.137  | 65    | 8642     | 51.337    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 102.680% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 6562     | 43.059    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 86.120%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 24270    | 38.262    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 76.520%  |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 7760     | 35.073    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 70.140%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.662  | 94    | 68       | Below Cal | #          | 77       |
| 10) Methyl Iodide             | 4.101  | 142   | 214      | 1.238     | ug/l #     | 57       |
| 11) Tert butyl alcohol        | 4.936  | 59    | 76       | Below Cal | #          | 75       |
| 16) Acetone                   | 3.930  | 43    | 193      | 4.764     | ug/l #     | 41       |
| 20) Methylene Chloride        | 4.716  | 84    | 1986     | 9.724     | ug/l       | 96       |
| 31) Cyclohexane               | 7.777  | 56    | 216      | 1.110     | ug/l #     | 37       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 833      | 4.039     | ug/l #     | 39       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 1194     | 4.313     | ug/l #     | 13       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 4063     | 38.459    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 4063     | 86.726    | ug/l #     | 12       |
| -----                         |        |       |          |           |            |          |

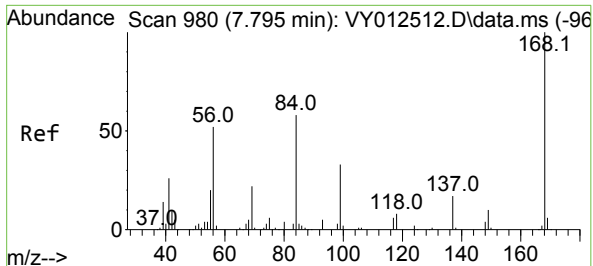
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :  
MH-C

Quant Time: Feb 16 21:59:41 2023  
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Quant Title : SW846 8260  
QLast Update : Wed Feb 08 01:09:03 2023  
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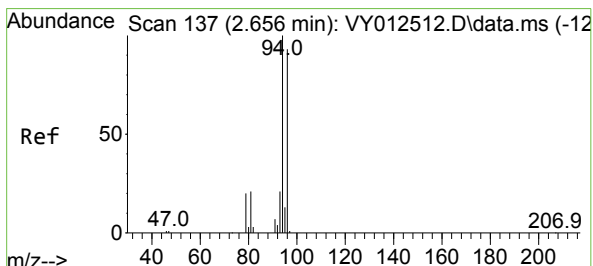
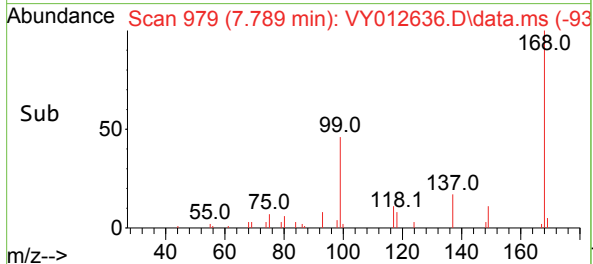
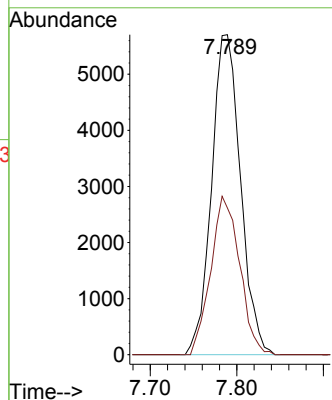
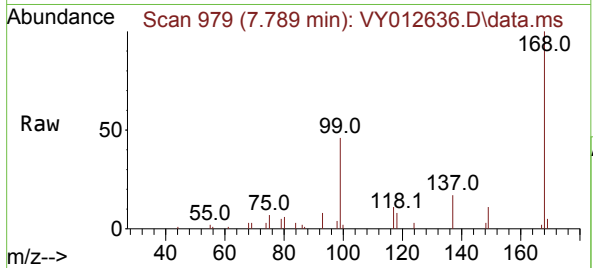




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY012636.D  
Acq: 16 Feb 2023 16:51

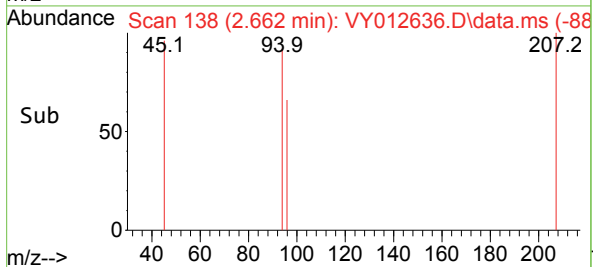
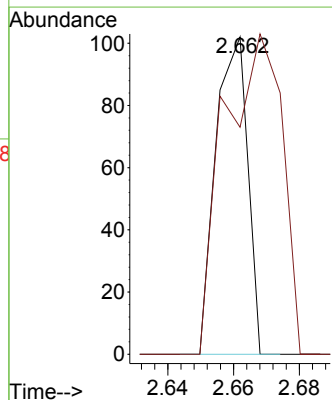
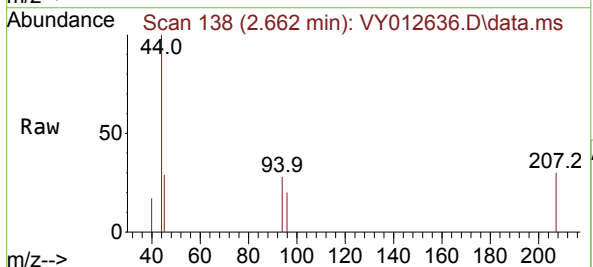
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-C

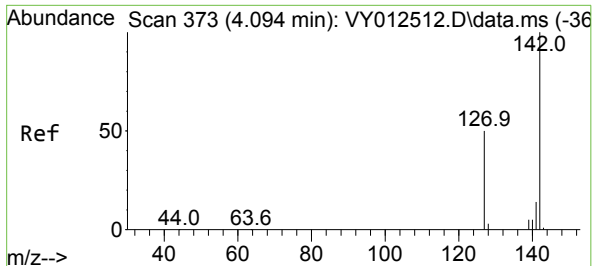
Tgt Ion:168 Resp: 13238  
Ion Ratio Lower Upper  
168 100  
99 45.8 40.8 61.2



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.662 min Scan# 138  
Delta R.T. 0.006 min  
Lab File: VY012636.D  
Acq: 16 Feb 2023 16:51

Tgt Ion: 94 Resp: 68  
Ion Ratio Lower Upper  
94 100  
96 71.6 74.7 112.1#

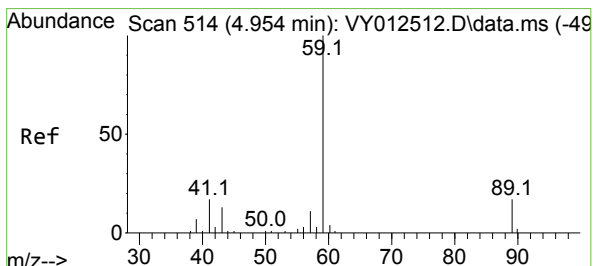
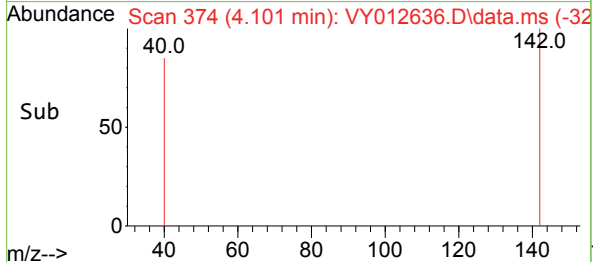
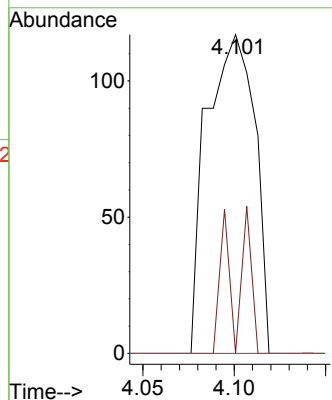
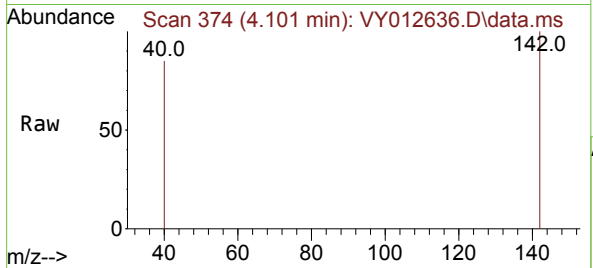




#10  
Methyl Iodide  
Concen: 1.238 ug/l  
RT: 4.101 min Scan# 31  
Delta R.T. 0.007 min  
Lab File: VY012636.D  
Acq: 16 Feb 2023 16:51

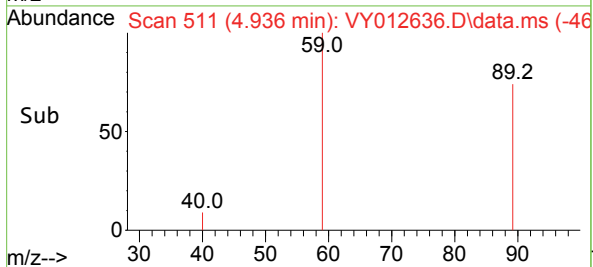
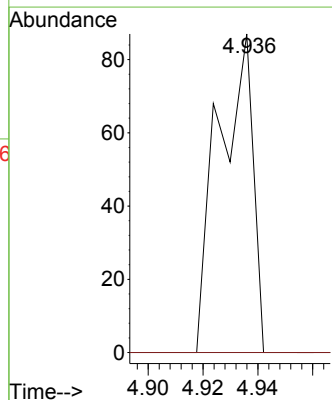
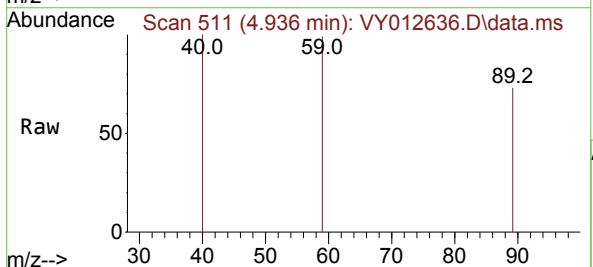
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-C

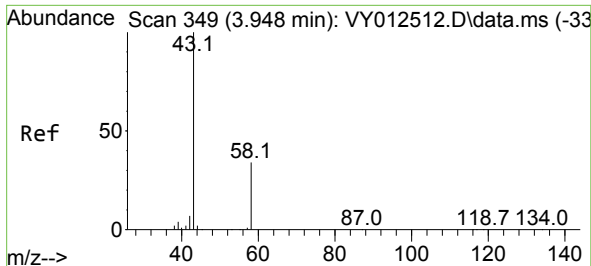
Tgt Ion:142 Resp: 214  
Ion Ratio Lower Upper  
142 100  
127 18.2 39.8 59.6#  
141 0.0 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.936 min Scan# 511  
Delta R.T. -0.018 min  
Lab File: VY012636.D  
Acq: 16 Feb 2023 16:51

Tgt Ion: 59 Resp: 76  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.2 10.8#





#16

Acetone

Concen: 4.764 ug/l

RT: 3.930 min Scan# 349

Delta R.T. -0.018 min

Lab File: VY012636.D

Acq: 16 Feb 2023 16:51

Instrument :

MSVOA\_Y

ClientSampleId :

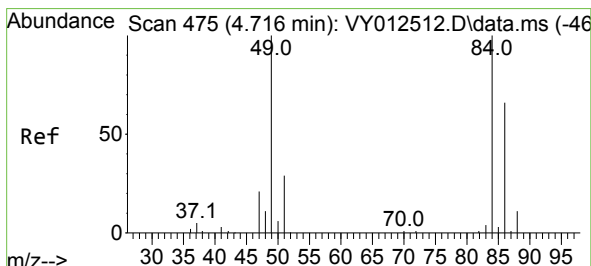
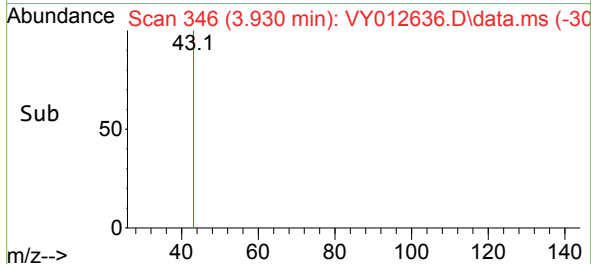
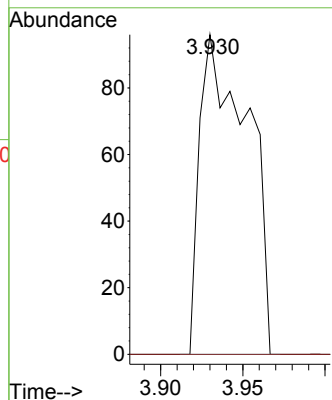
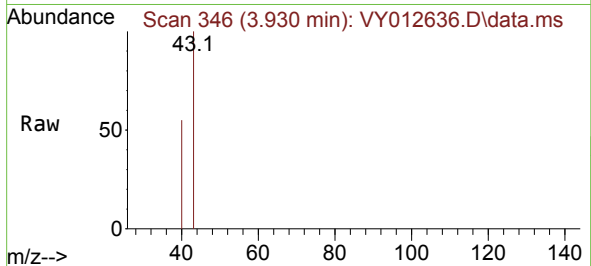
MH-C

Tgt Ion: 43 Resp: 193

Ion Ratio Lower Upper

43 100

58 0.0 27.1 40.7#



#20

Methylene Chloride

Concen: 9.724 ug/l

RT: 4.716 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY012636.D

Acq: 16 Feb 2023 16:51

Tgt Ion: 84 Resp: 1986

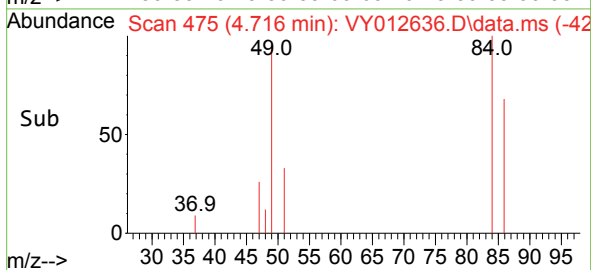
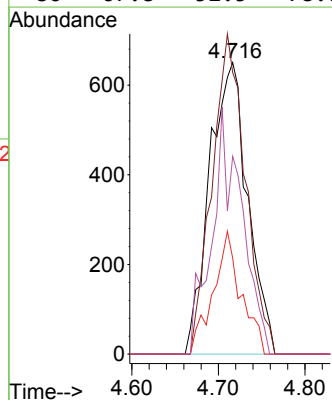
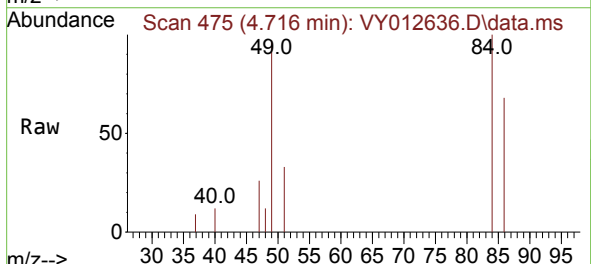
Ion Ratio Lower Upper

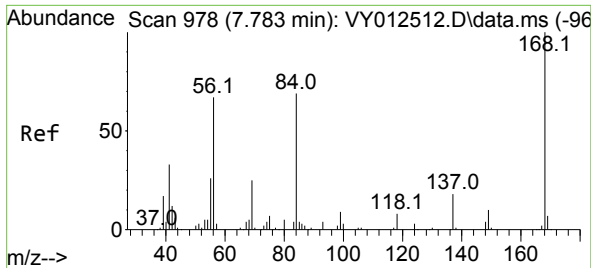
84 100

49 96.6 79.8 119.6

51 32.9 23.4 35.2

86 67.8 52.5 78.7

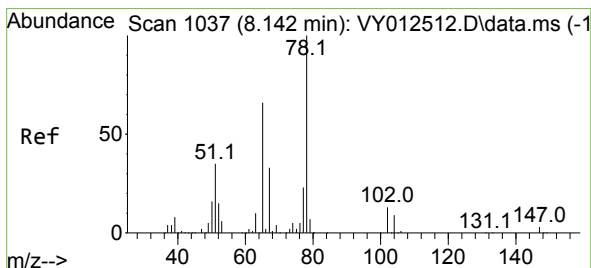
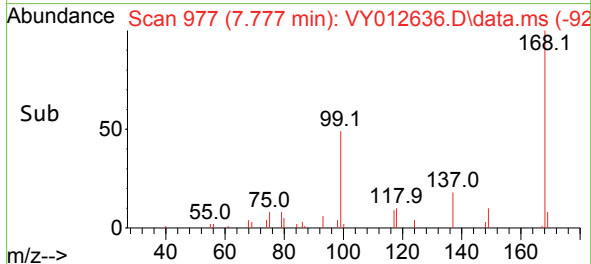
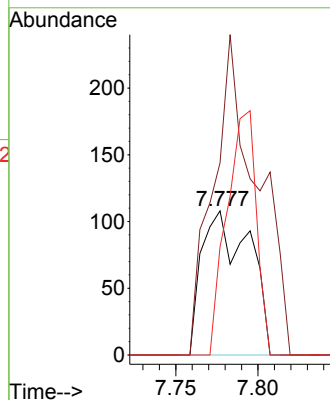
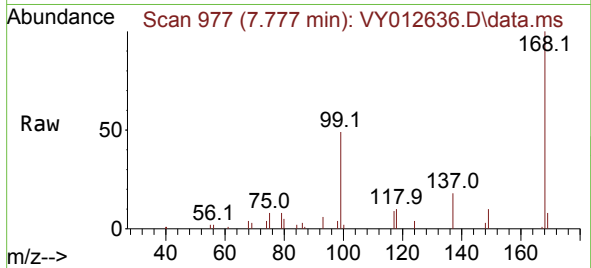




#31  
Cyclohexane  
Concen: 1.110 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY012636.D  
Acq: 16 Feb 2023 16:51

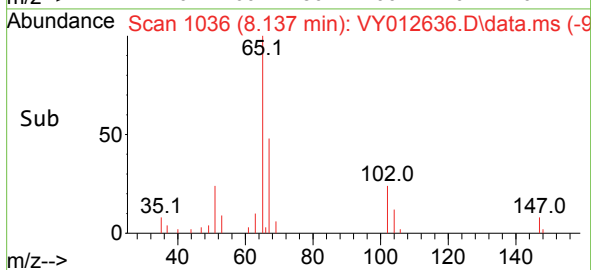
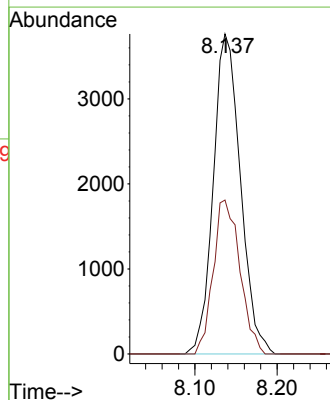
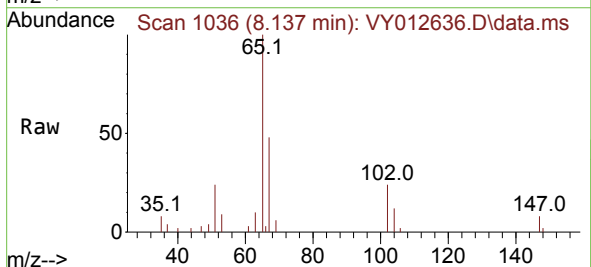
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-C

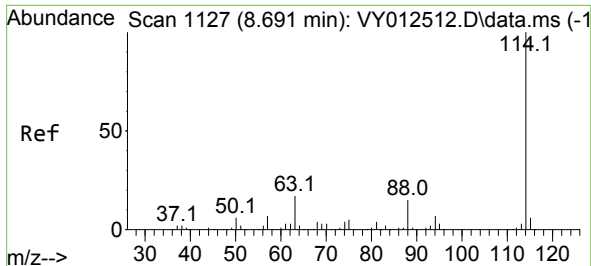
Tgt Ion: 56 Resp: 216  
Ion Ratio Lower Upper  
56 100  
69 133.3 29.5 44.3#  
84 75.0 81.9 122.9#



#33  
1,2-Dichloroethane-d4  
Concen: 51.337 ug/l  
RT: 8.137 min Scan# 1036  
Delta R.T. -0.006 min  
Lab File: VY012636.D  
Acq: 16 Feb 2023 16:51

Tgt Ion: 65 Resp: 8642  
Ion Ratio Lower Upper  
65 100  
67 47.1 0.0 98.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY012636.D

Acq: 16 Feb 2023 16:51

Instrument :

MSVOA\_Y

ClientSampleId :

MH-C

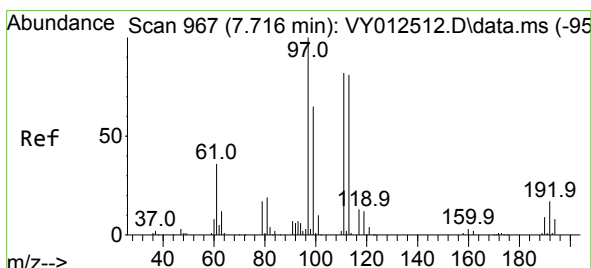
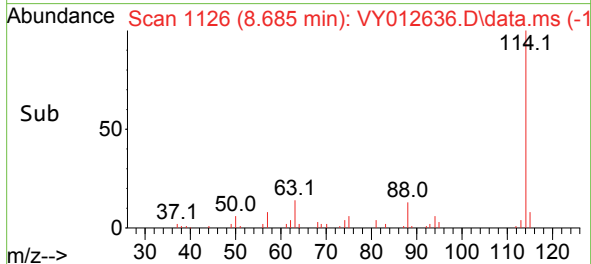
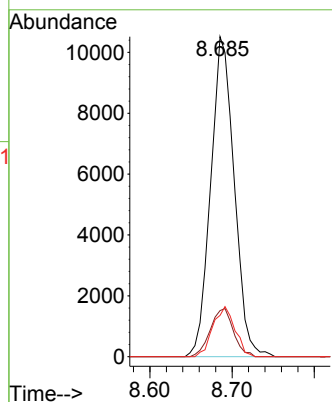
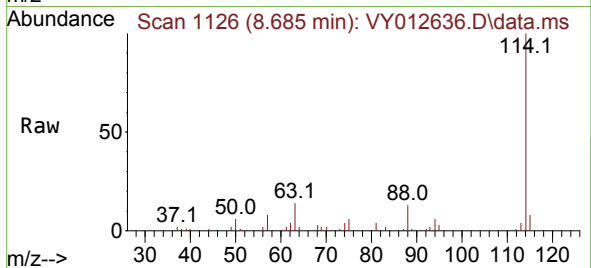
Tgt Ion:114 Resp: 20926

Ion Ratio Lower Upper

114 100

63 14.4 0.0 33.6

88 12.9 0.0 29.8



#35

Dibromofluoromethane

Concen: 43.059 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY012636.D

Acq: 16 Feb 2023 16:51

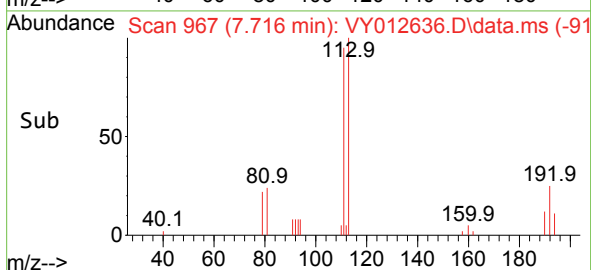
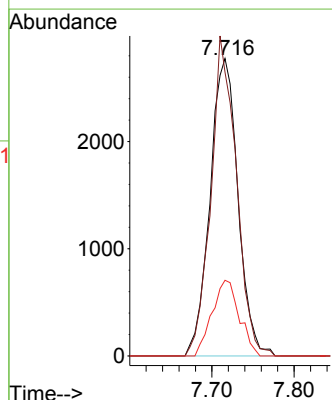
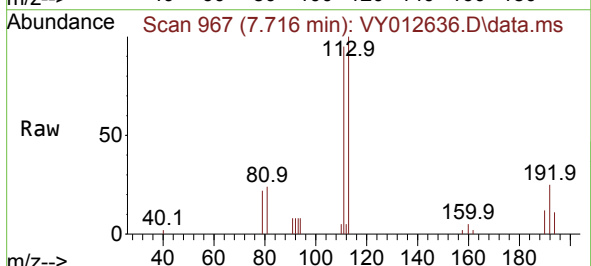
Tgt Ion:113 Resp: 6562

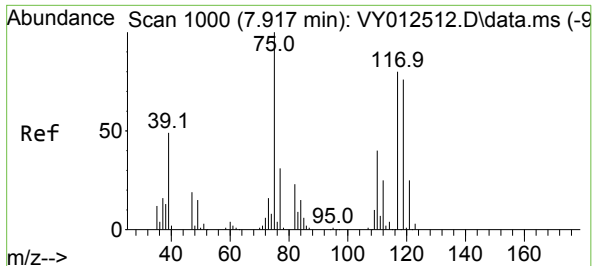
Ion Ratio Lower Upper

113 100

111 97.8 81.9 122.9

192 24.7 17.5 26.3

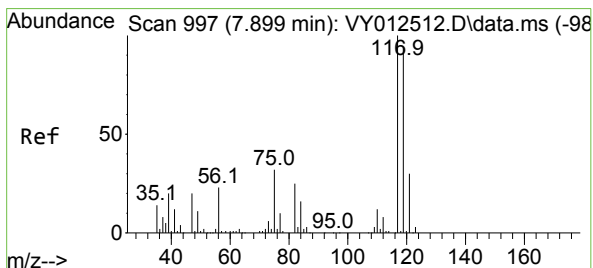
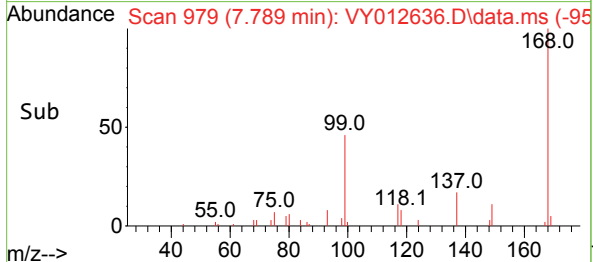
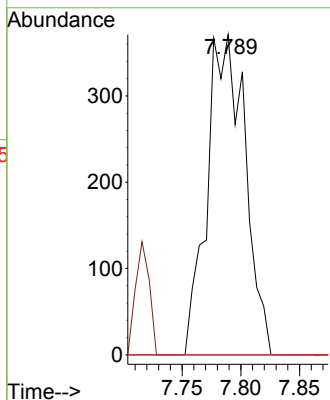
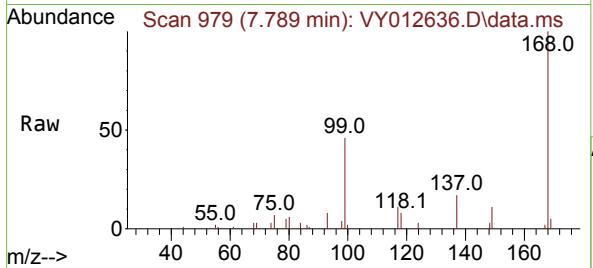




#36  
 1,1-Dichloropropene  
 Concen: 4.039 ug/l  
 RT: 7.789 min Scan# 91  
 Delta R.T. -0.128 min  
 Lab File: VY012636.D  
 Acq: 16 Feb 2023 16:51

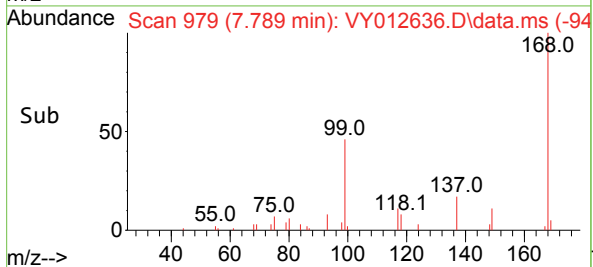
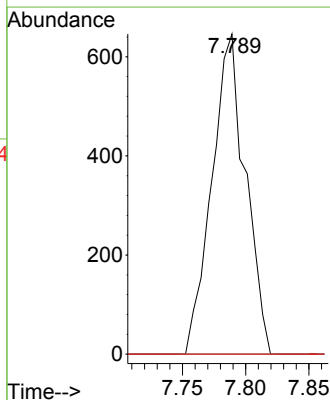
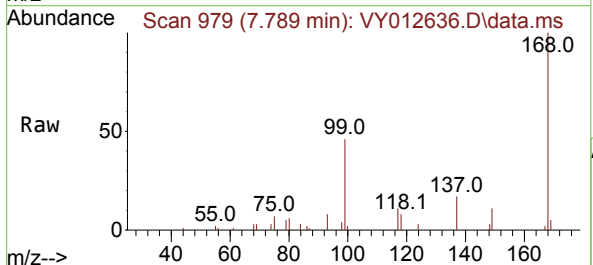
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MH-C

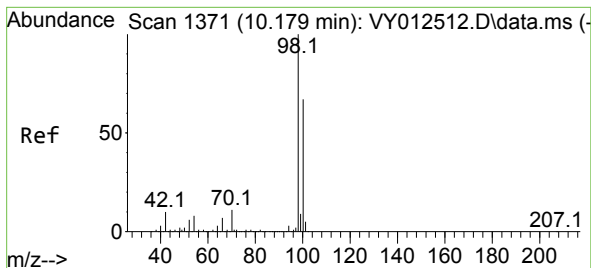
Tgt Ion: 75 Resp: 833  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 19.5 58.5#  
 77 0.0 24.9 37.3#



#38  
 Carbon Tetrachloride  
 Concen: 4.313 ug/l  
 RT: 7.789 min Scan# 979  
 Delta R.T. -0.109 min  
 Lab File: VY012636.D  
 Acq: 16 Feb 2023 16:51

Tgt Ion: 117 Resp: 1194  
 Ion Ratio Lower Upper  
 117 100  
 119 0.0 75.1 112.7#  
 121 0.0 24.3 36.5#





#50

Toluene-d8

Concen: 38.262 ug/l

RT: 10.179 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY012636.D

Acq: 16 Feb 2023 16:51

Instrument :

MSVOA\_Y

ClientSampleId :

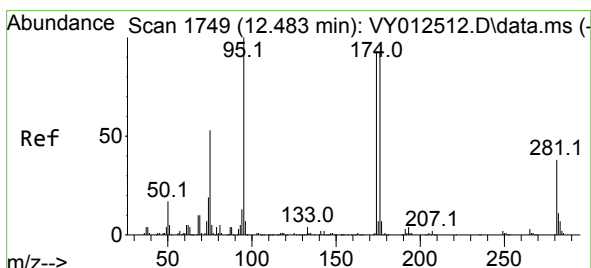
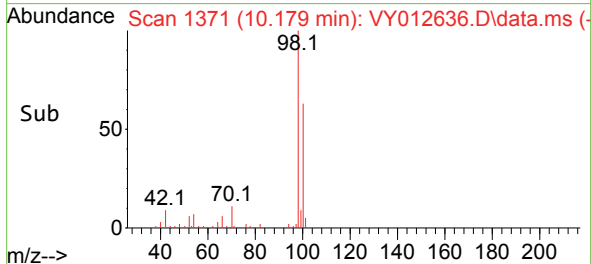
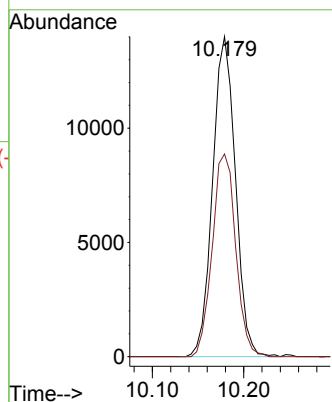
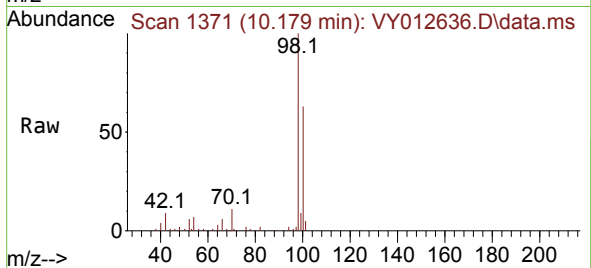
MH-C

Tgt Ion: 98 Resp: 24270

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 35.073 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.006 min

Lab File: VY012636.D

Acq: 16 Feb 2023 16:51

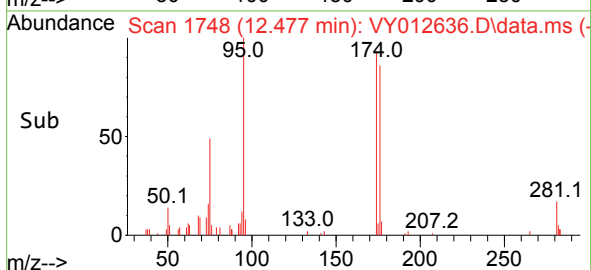
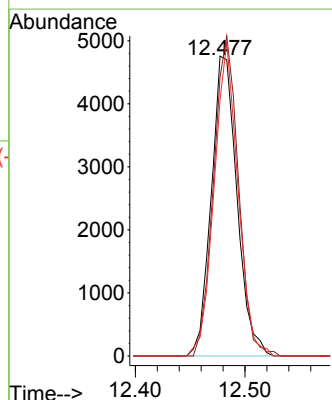
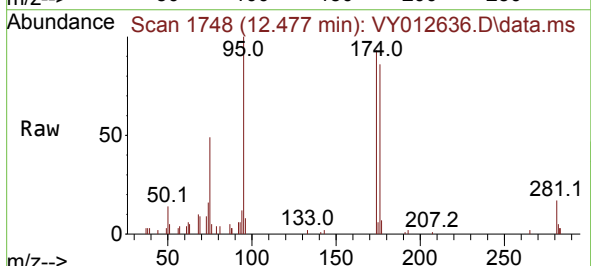
Tgt Ion: 95 Resp: 7760

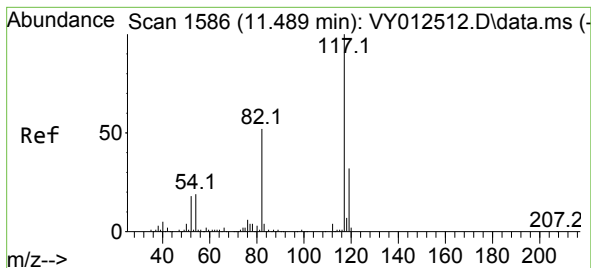
Ion Ratio Lower Upper

95 100

174 102.5 0.0 188.0

176 96.7 0.0 183.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY012636.D

Acq: 16 Feb 2023 16:51

Instrument :

MSVOA\_Y

ClientSampleId :

MH-C

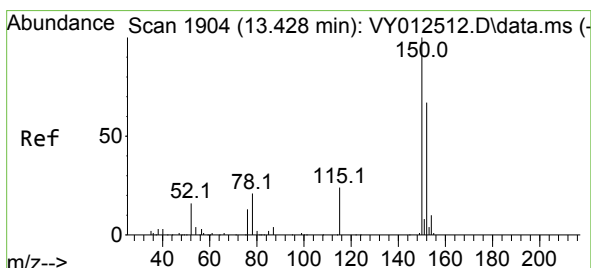
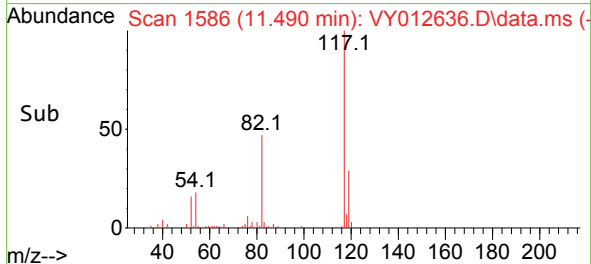
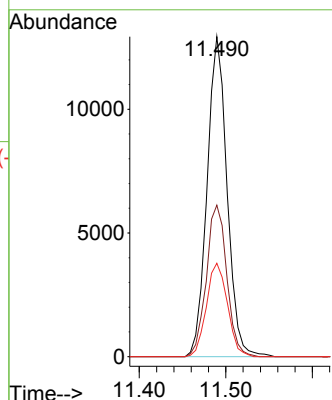
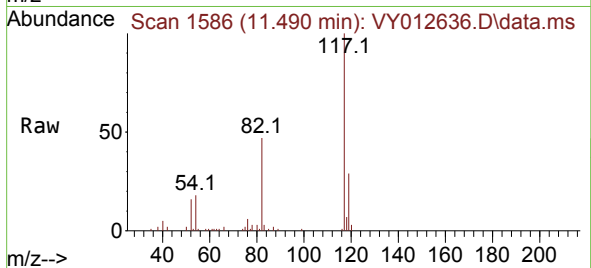
Tgt Ion:117 Resp: 20738

Ion Ratio Lower Upper

117 100

82 47.3 41.7 62.5

119 29.2 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY012636.D

Acq: 16 Feb 2023 16:51

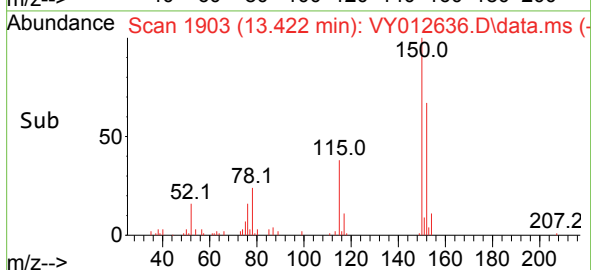
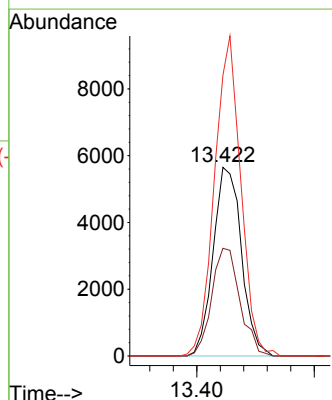
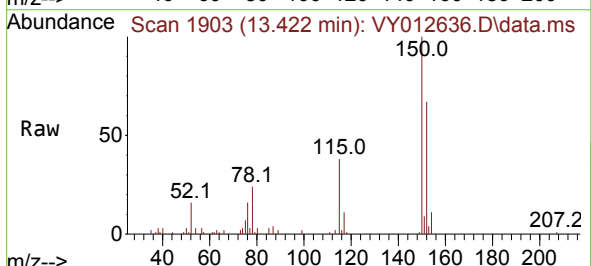
Tgt Ion:152 Resp: 9456

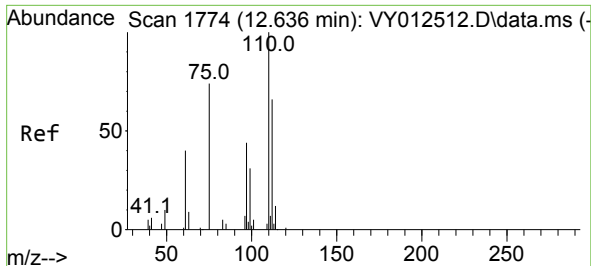
Ion Ratio Lower Upper

152 100

115 56.9 28.1 84.3

150 157.0 0.0 351.0

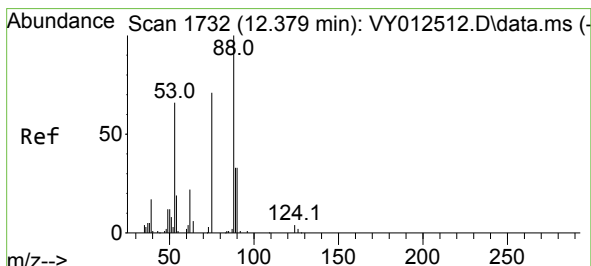
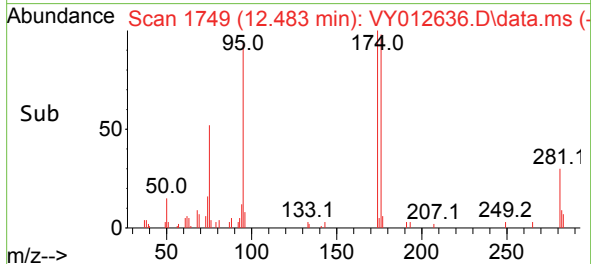
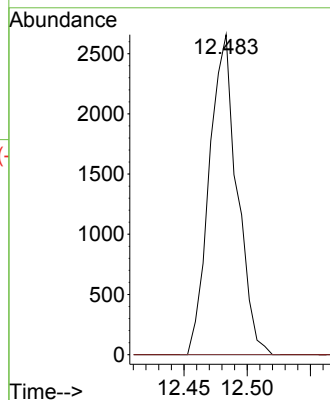
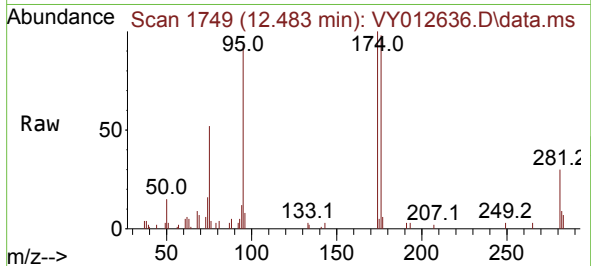




#76  
1,2,3-Trichloropropane  
Concen: 38.459 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY012636.D  
Acq: 16 Feb 2023 16:51

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-C

Tgt Ion: 75 Resp: 4063  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#81  
trans-1,4-Dichloro-2-butene  
Concen: 86.726 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY012636.D  
Acq: 16 Feb 2023 16:51

Tgt Ion: 75 Resp: 4063  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.1 109.7#  
89 0.0 39.9 59.9#

