

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072822\  
 Data File : VY009755.D  
 Acq On : 28 Jul 2022 16:48  
 Operator : KP/MD  
 Sample : N3948-01  
 Misc : 5.36g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MHA

Quant Time: Jul 29 02:57:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y072622S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 27 04:24:58 2022  
 Response via : Initial Calibration

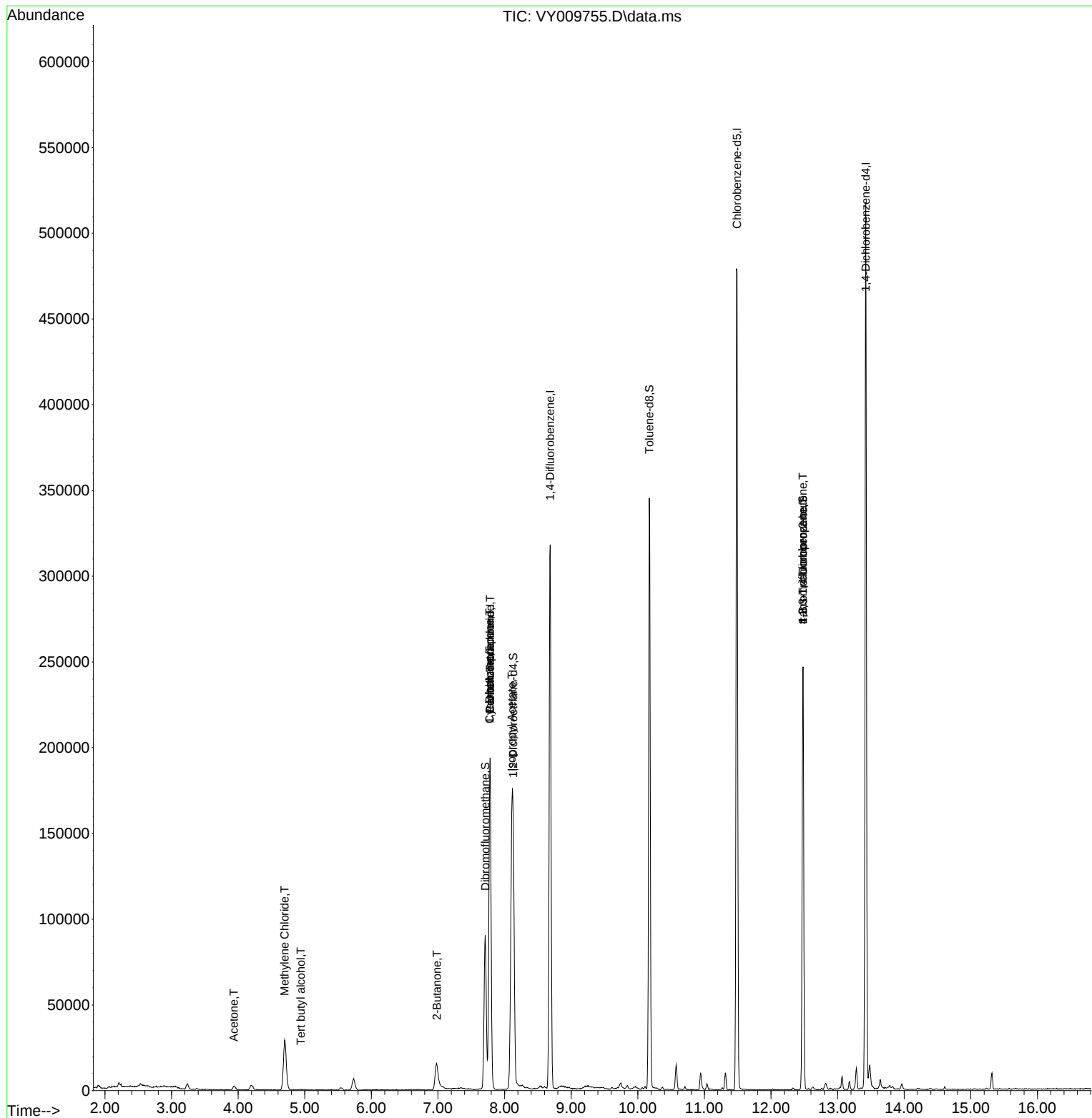
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.783     | 168   | 160638   | 50.000    | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.685     | 114   | 278543   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490    | 117   | 272151   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422    | 152   | 133872   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.130     | 65    | 67337    | 64.472    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 128.940% |          |
| 35) Dibromofluoromethane      | 7.710     | 113   | 63199    | 41.718    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 83.440%  |          |
| 50) Toluene-d8                | 10.173    | 98    | 228094   | 51.856    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 125 | Recovery  | = 103.720% |          |
| 62) 4-Bromofluorobenzene      | 12.477    | 95    | 70837    | 35.264    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 146 | Recovery  | = 70.520%  |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.942     | 59    | 706      | 3.665     | ug/l       | # 77     |
| 16) Acetone                   | 3.936     | 43    | 4207     | 10.954    | ug/l       | 91       |
| 18) Methyl Acetate            | 4.472     | 43    | 210      | Below Cal | #          | 56       |
| 20) Methylene Chloride        | 4.698     | 84    | 22037    | 2.814     | ug/l       | 90       |
| 25) 2-Butanone                | 6.984     | 43    | 2080     | 3.671     | ug/l       | 93       |
| 31) Cyclohexane               | 7.777     | 56    | 2823     | 1.105     | ug/l       | # 1      |
| 36) 1,1-Dichloropropene       | 7.777     | 75    | 11660    | 4.730     | ug/l       | # 50     |
| 38) Carbon Tetrachloride      | 7.783     | 117   | 14478    | 5.481     | ug/l       | # 15     |
| 43) Isopropyl Acetate         | 8.106     | 43    | 3180     | 1.246     | ug/l       | # 5      |
| 76) 1,2,3-Trichloropropane    | 12.477    | 75    | 36469    | 29.328    | ug/l       | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.477    | 75    | 36469    | 58.460    | ug/l       | # 7      |
| -----                         |           |       |          |           |            |          |

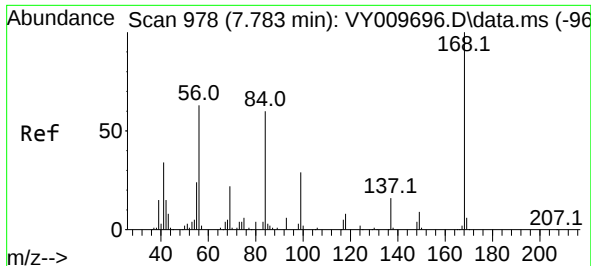
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072822\  
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Sample : N3948-01  
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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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Quant Time: Jul 29 02:57:25 2022  
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Quant Title : SW846 8260  
QLast Update : Wed Jul 27 04:24:58 2022  
Response via : Initial Calibration

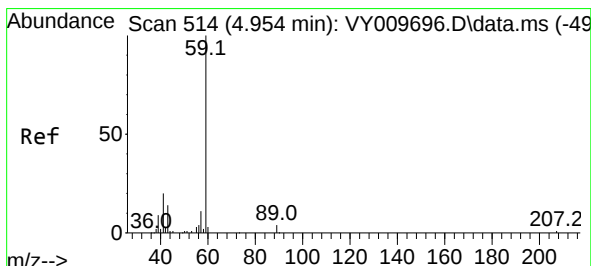
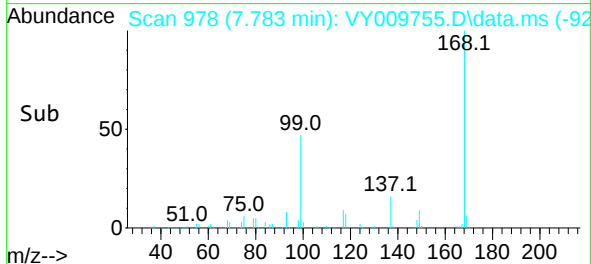
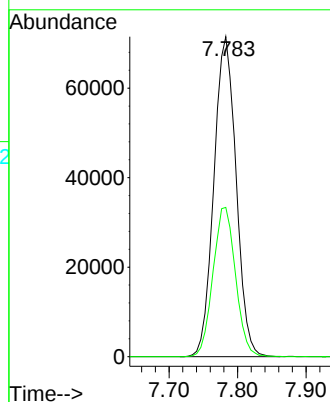
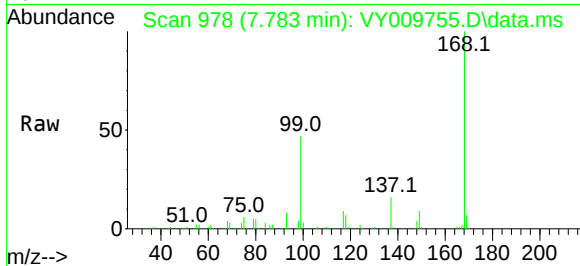




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

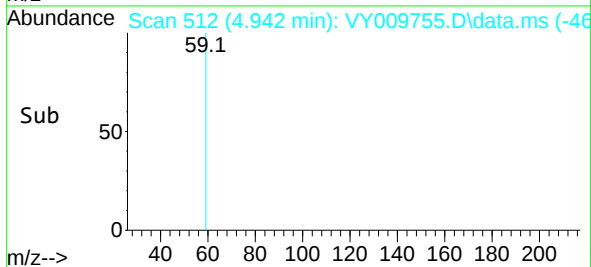
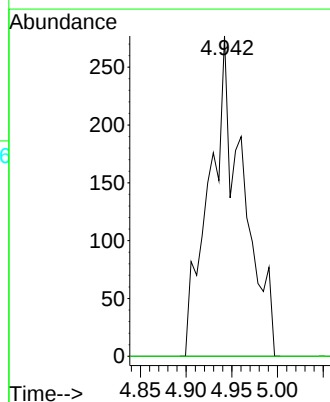
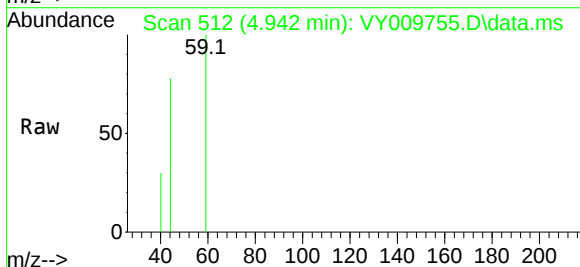
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MHA

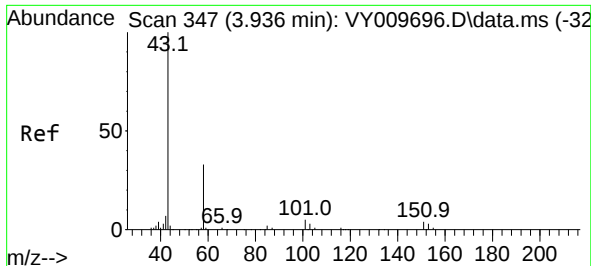
Tgt Ion:168 Resp: 160638  
Ion Ratio Lower Upper  
168 100  
99 46.7 46.9 70.3#



#11  
Tert butyl alcohol  
Concen: 3.665 ug/l  
RT: 4.942 min Scan# 512  
Delta R.T. -0.012 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

Tgt Ion: 59 Resp: 706  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#





#16

Acetone

Concen: 10.954 ug/l

RT: 3.936 min Scan# 347

Delta R.T. -0.000 min

Lab File: VY009755.D

Acq: 28 Jul 2022 16:48

Instrument :

MSVOA\_Y

ClientSampleId :

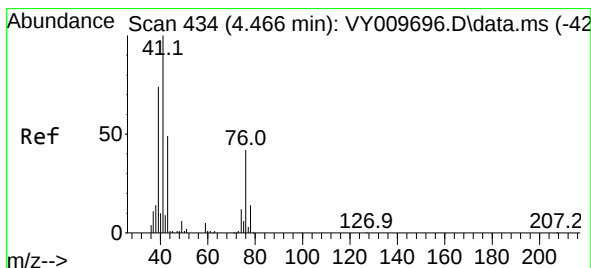
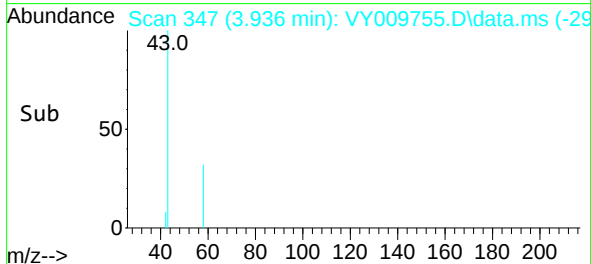
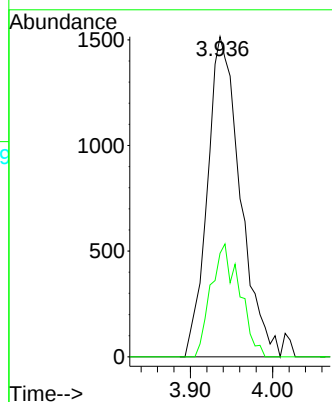
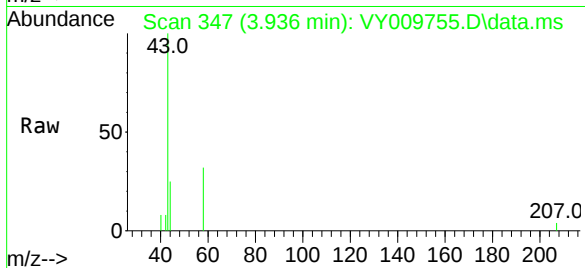
MHA

Tgt Ion: 43 Resp: 4207

Ion Ratio Lower Upper

43 100

58 32.3 22.0 33.0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.472 min Scan# 435

Delta R.T. 0.006 min

Lab File: VY009755.D

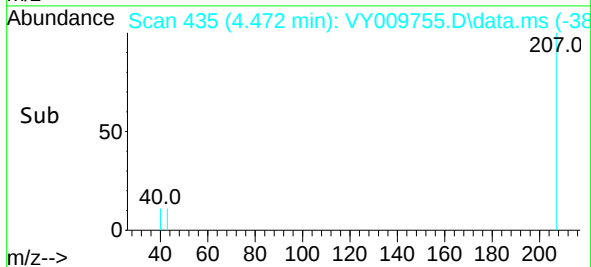
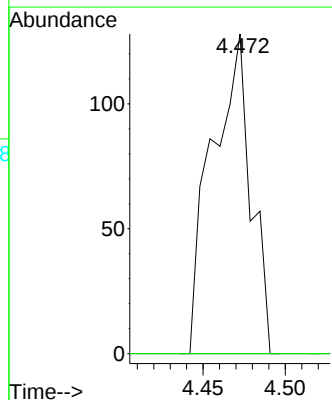
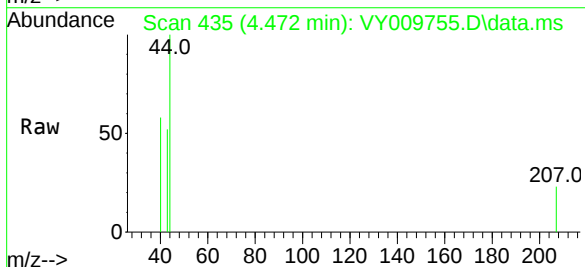
Acq: 28 Jul 2022 16:48

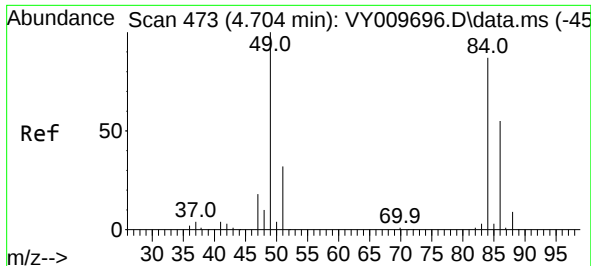
Tgt Ion: 43 Resp: 210

Ion Ratio Lower Upper

43 100

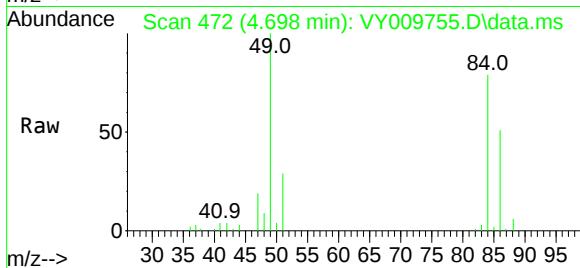
74 0.0 16.6 24.8#



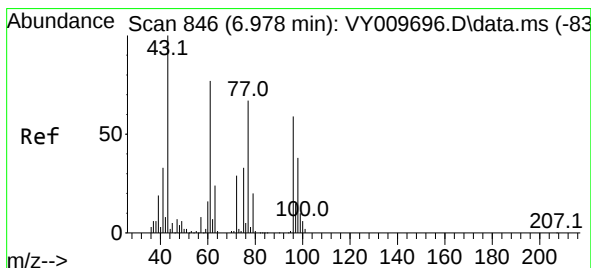
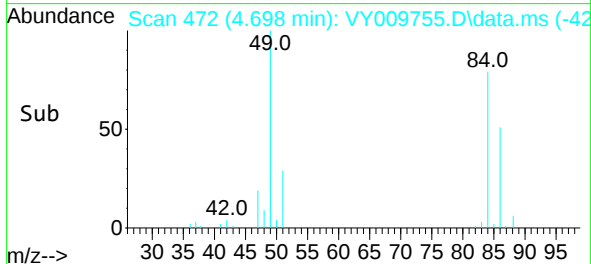
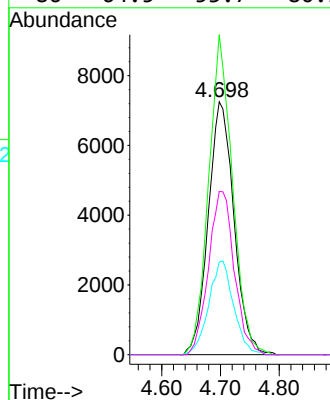


#20  
Methylene Chloride  
Concen: 2.814 ug/l  
RT: 4.698 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MHA

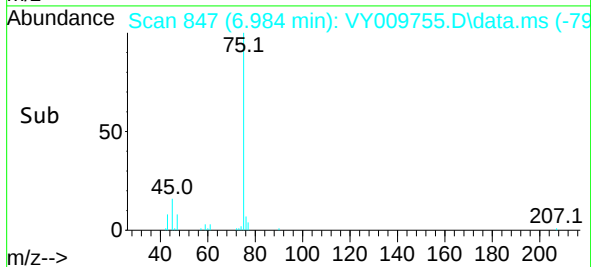
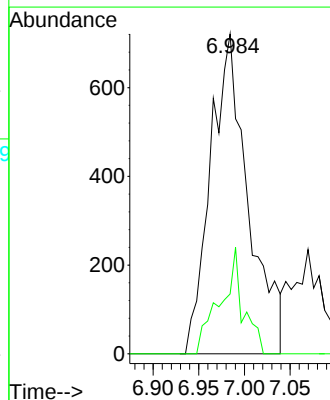
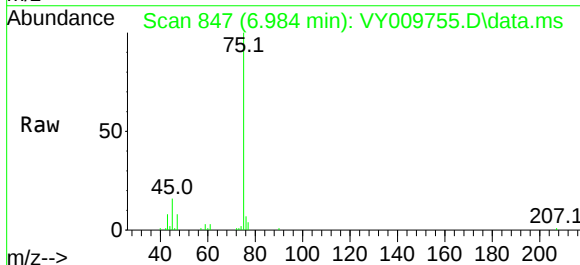


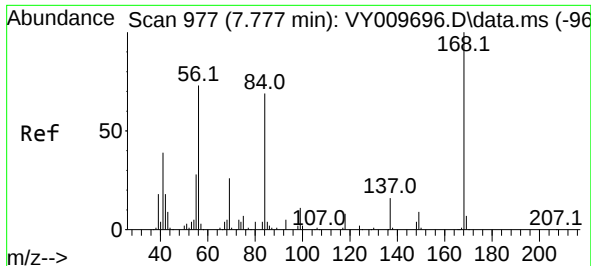
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 22037 |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 126.5    | 114.4 171.6 |
| 51 36.6     | 35.3 52.9   |
| 86 64.5     | 53.7 80.5   |



#25  
2-Butanone  
Concen: 3.671 ug/l  
RT: 6.984 min Scan# 847  
Delta R.T. 0.006 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 2080  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 72 18.7     | 17.7 26.5   |

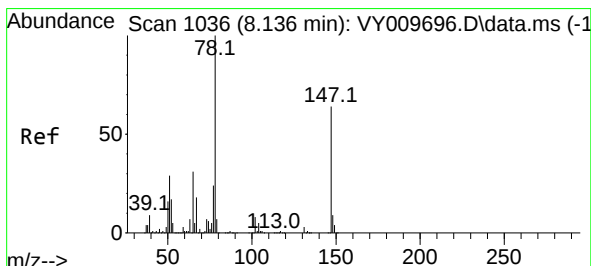
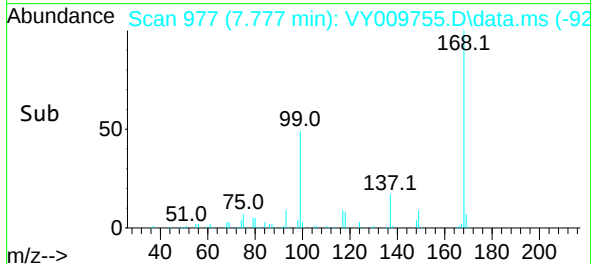
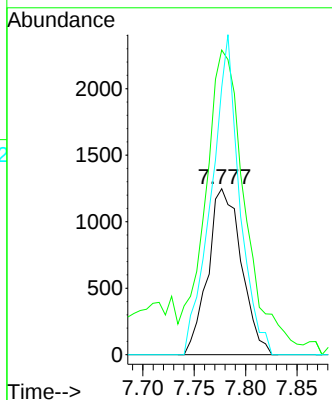
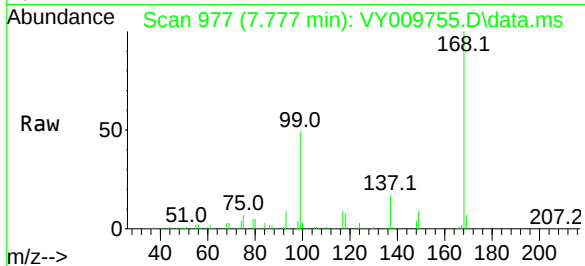




#31  
Cyclohexane  
Concen: 1.105 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

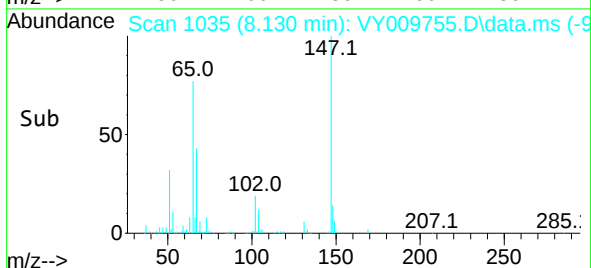
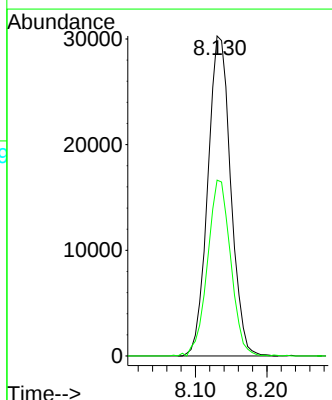
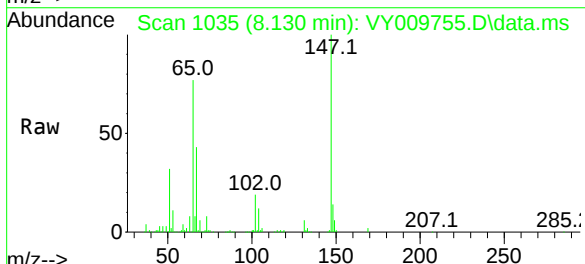
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MHA

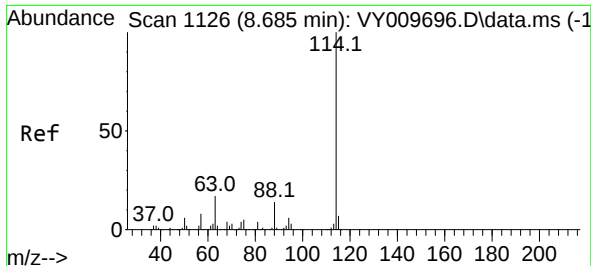
Tgt Ion: 56 Resp: 2823  
Ion Ratio Lower Upper  
56 100  
69 165.6 26.7 40.1#  
84 161.1 67.2 100.8#



#33  
1,2-Dichloroethane-d4  
Concen: 64.472 ug/l  
RT: 8.130 min Scan# 1035  
Delta R.T. -0.006 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

Tgt Ion: 65 Resp: 67337  
Ion Ratio Lower Upper  
65 100  
67 55.6 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY009755.D

Acq: 28 Jul 2022 16:48

Instrument :

MSVOA\_Y

ClientSampleId :

MHA

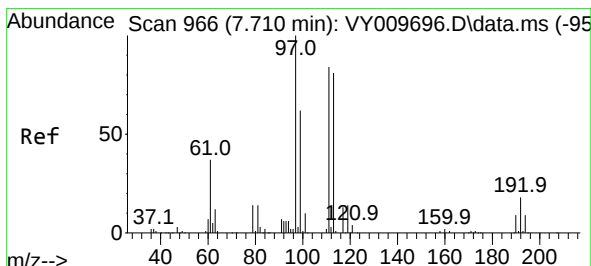
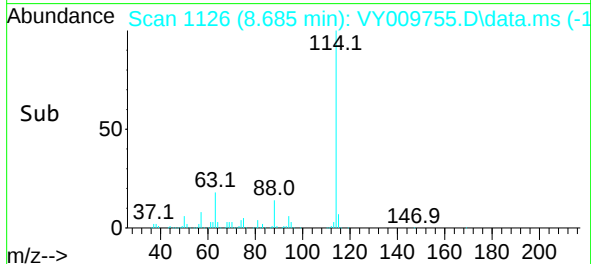
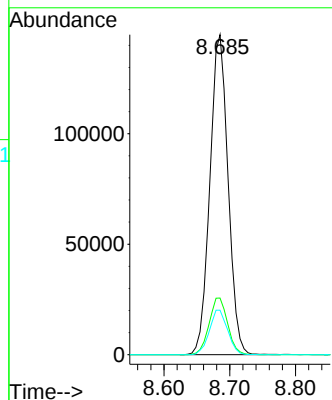
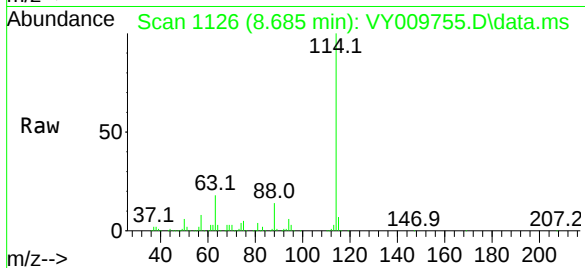
Tgt Ion:114 Resp: 278543

Ion Ratio Lower Upper

114 100

63 17.7 0.0 43.2

88 13.9 0.0 31.8



#35

Dibromofluoromethane

Concen: 41.718 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.000 min

Lab File: VY009755.D

Acq: 28 Jul 2022 16:48

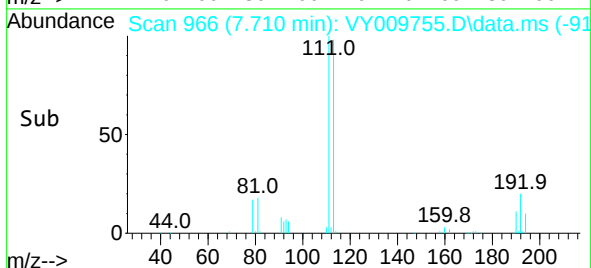
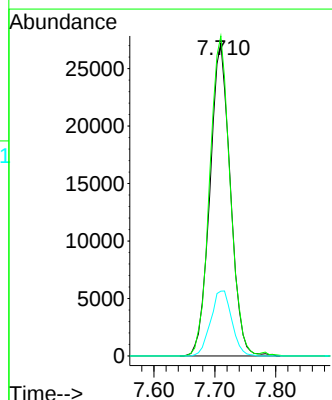
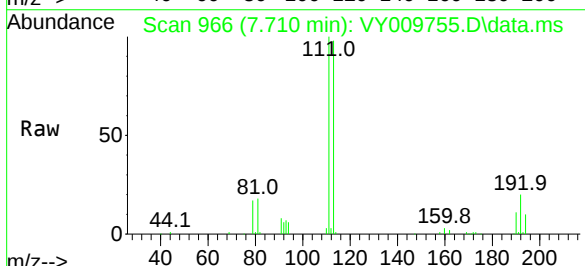
Tgt Ion:113 Resp: 63199

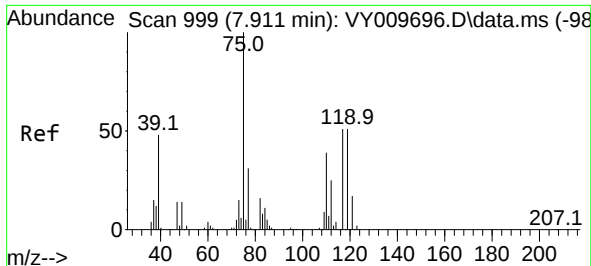
Ion Ratio Lower Upper

113 100

111 102.4 82.6 124.0

192 21.6 17.6 26.4

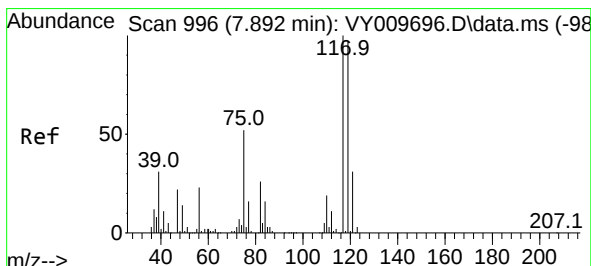
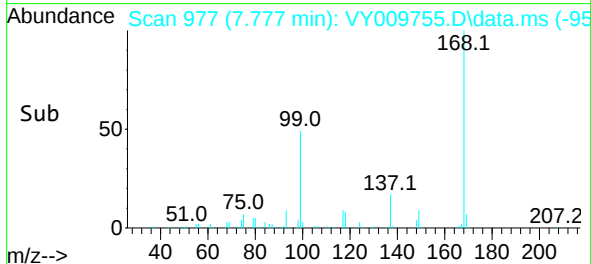
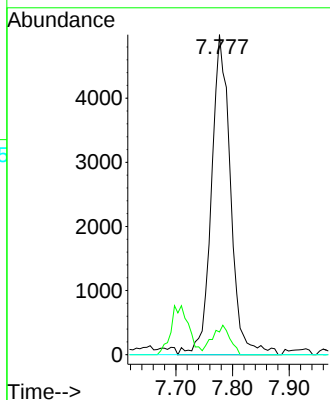
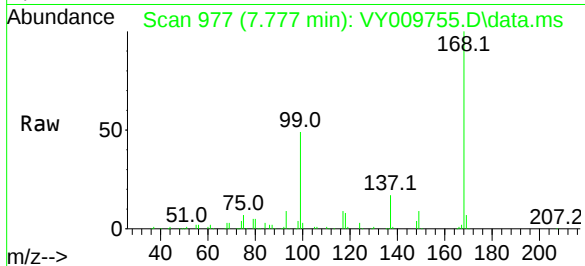




#36  
 1,1-Dichloropropene  
 Concen: 4.730 ug/l  
 RT: 7.777 min Scan# 91  
 Delta R.T. -0.134 min  
 Lab File: VY009755.D  
 Acq: 28 Jul 2022 16:48

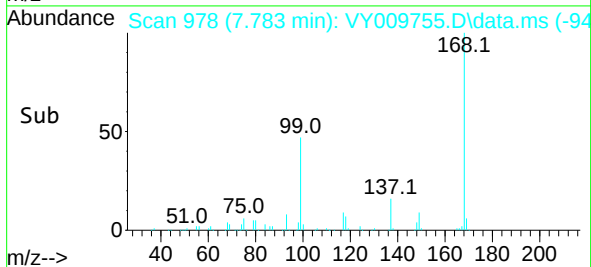
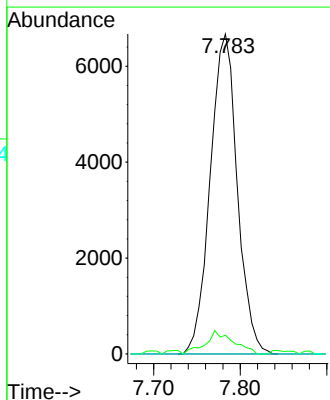
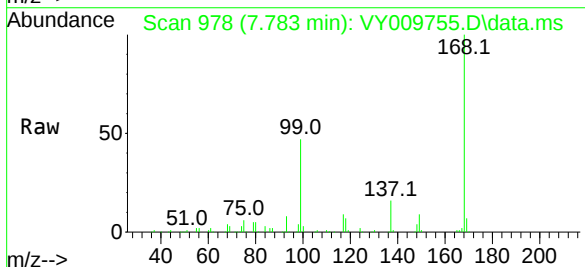
Instrument :  
 MSVOA\_Y  
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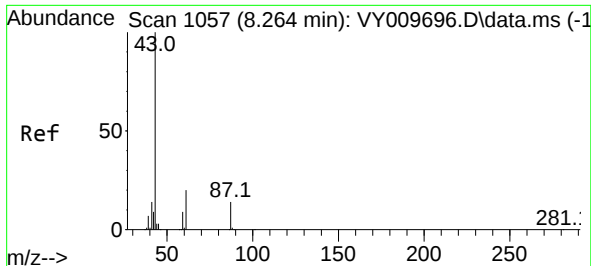
Tgt Ion: 75 Resp: 11660  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 17.1 51.2#  
 77 0.0 24.4 36.6#



#38  
 Carbon Tetrachloride  
 Concen: 5.481 ug/l  
 RT: 7.783 min Scan# 978  
 Delta R.T. -0.109 min  
 Lab File: VY009755.D  
 Acq: 28 Jul 2022 16:48

Tgt Ion: 117 Resp: 14478  
 Ion Ratio Lower Upper  
 117 100  
 119 4.8 77.9 116.9#  
 121 0.0 24.8 37.2#

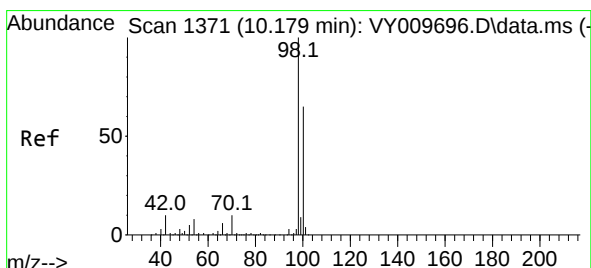
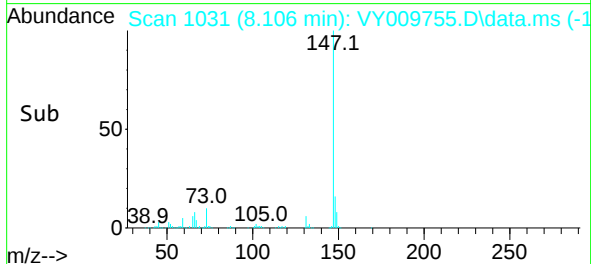
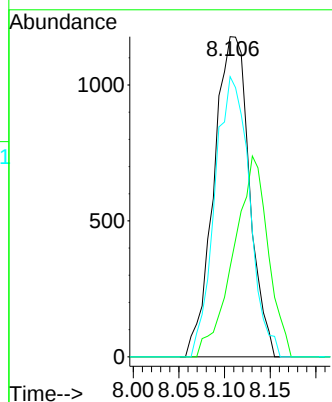
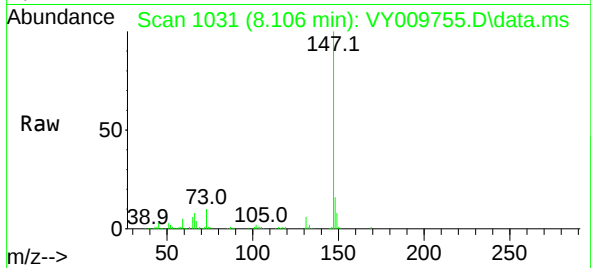




#43  
Isopropyl Acetate  
Concen: 1.246 ug/l  
RT: 8.106 min Scan# 1057  
Delta R.T. -0.158 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

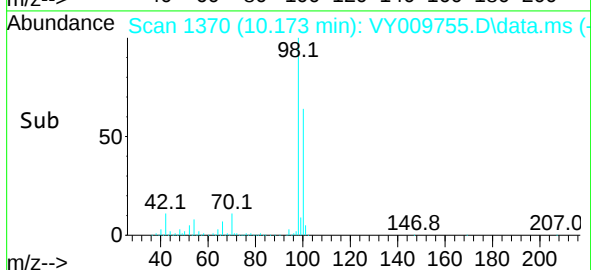
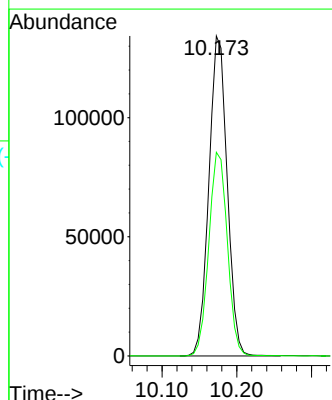
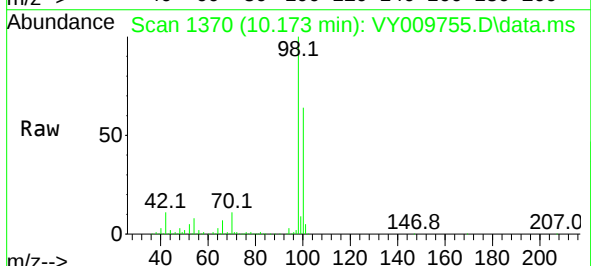
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MHA

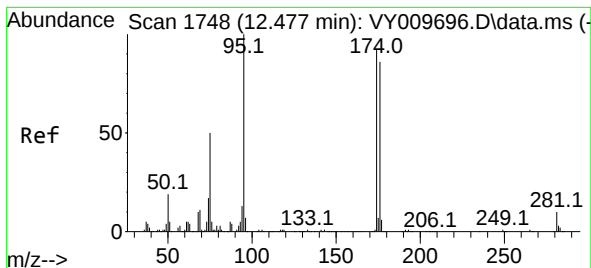
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Ion Ratio Lower Upper  
43 100  
61 0.0 20.2 30.2#  
87 85.6 8.9 13.3#



#50  
Toluene-d8  
Concen: 51.856 ug/l  
RT: 10.173 min Scan# 1370  
Delta R.T. -0.006 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

Tgt Ion: 98 Resp: 228094  
Ion Ratio Lower Upper  
98 100  
100 64.6 50.2 75.2

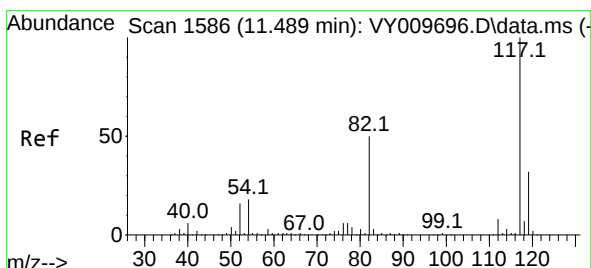
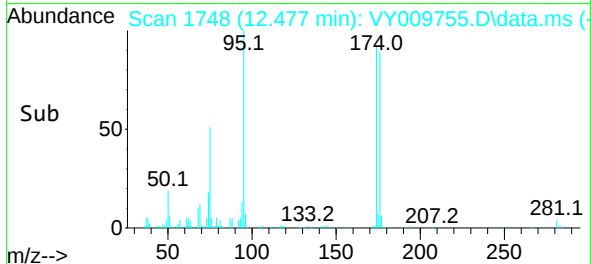
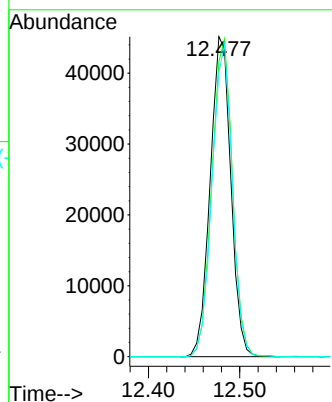
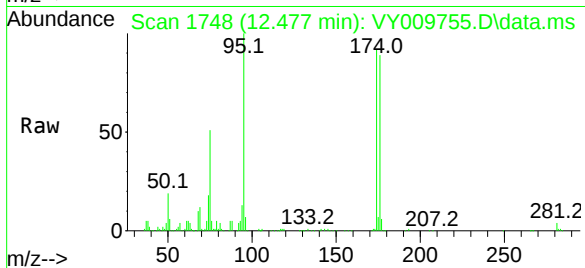




#62  
4-Bromofluorobenzene  
Concen: 35.264 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.000 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

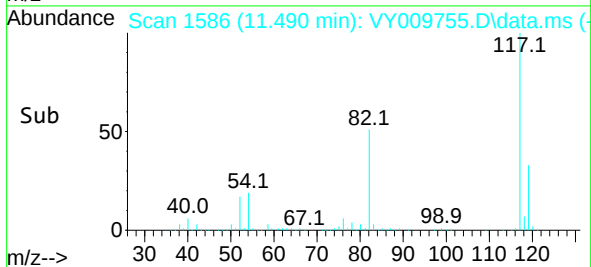
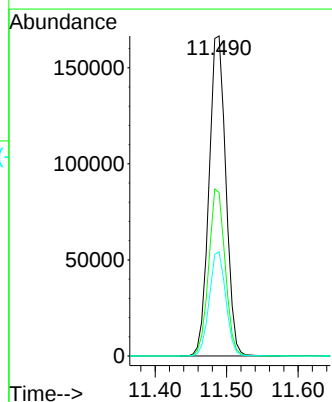
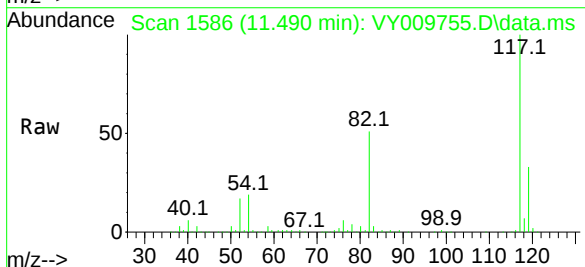
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MHA

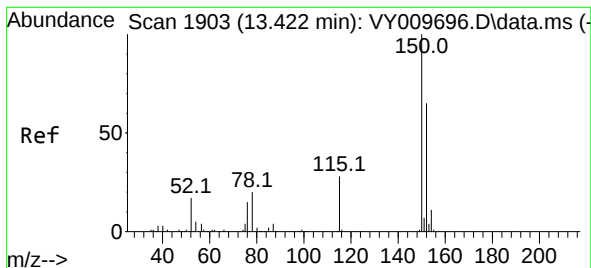
Tgt Ion: 95 Resp: 70837  
Ion Ratio Lower Upper  
95 100  
174 98.9 0.0 177.0  
176 95.9 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. 0.000 min  
Lab File: VY009755.D  
Acq: 28 Jul 2022 16:48

Tgt Ion: 117 Resp: 272151  
Ion Ratio Lower Upper  
117 100  
82 51.1 43.0 64.4  
119 32.6 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY009755.D

Acq: 28 Jul 2022 16:48

Instrument :

MSVOA\_Y

ClientSampleId :

MHA

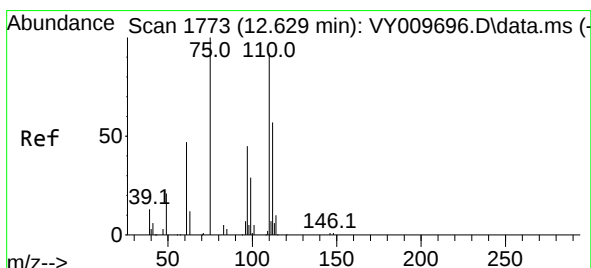
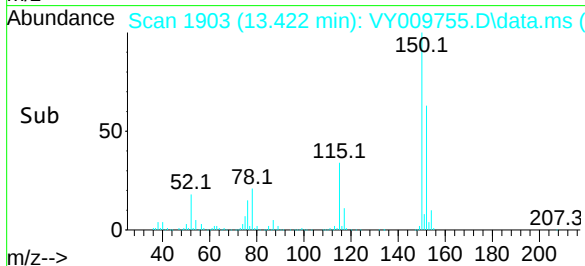
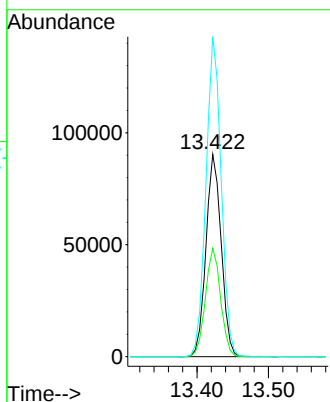
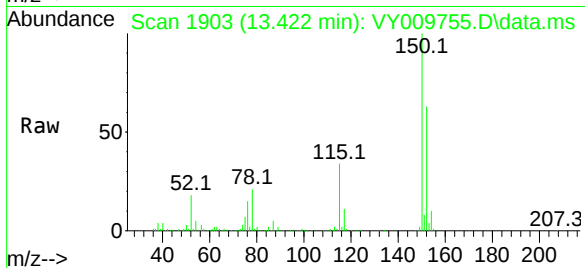
Tgt Ion:152 Resp: 133872

Ion Ratio Lower Upper

152 100

115 53.3 28.2 84.7

150 157.8 0.0 347.6



#76

1,2,3-Trichloropropane

Concen: 29.328 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY009755.D

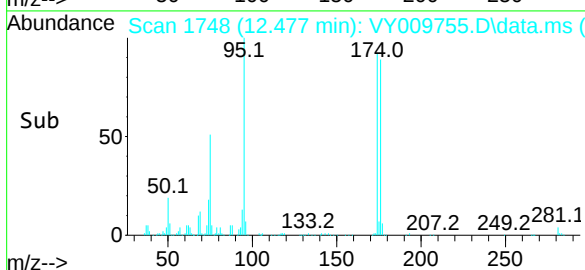
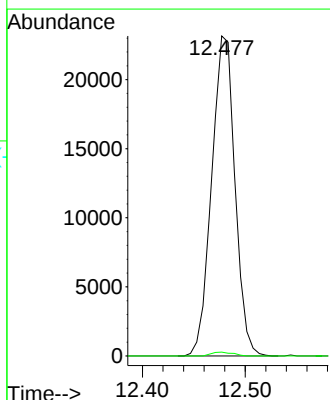
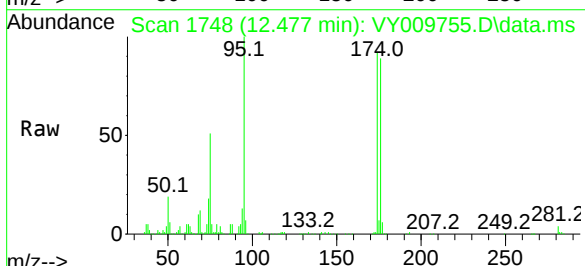
Acq: 28 Jul 2022 16:48

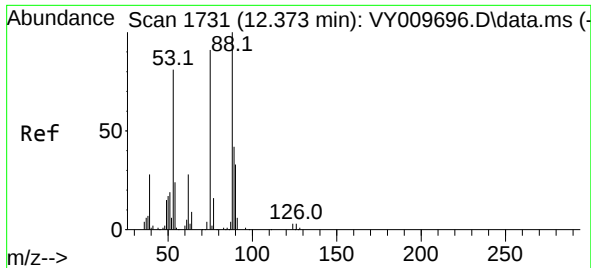
Tgt Ion: 75 Resp: 36469

Ion Ratio Lower Upper

75 100

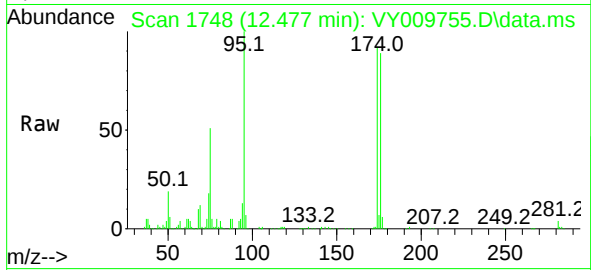
77 1.1 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 58.460 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.104 min  
 Lab File: VY009755.D  
 Acq: 28 Jul 2022 16:48

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MHA



Tgt Ion: 75 Resp: 36469  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 85.3 127.9#  
 89 0.0 37.0 55.4#

