

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021323\  
 Data File : VU053089.D  
 Acq On : 13 Feb 2023 18:37  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005140

Quant Time: Feb 14 00:49:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR021023WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Feb 14 00:41:52 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.244  | 114   | 113122   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.411  | 117   | 102956   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 48338    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.598  | 65    | 21393    | 3.948    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 79.000%  |
| 7) Chloroethane-d5            | 1.913  | 69    | 22815    | 4.479    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 89.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.563  | 65    | 9890     | 3.979    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 79.600%  |
| 20) 2-Butanone-d5             | 4.640  | 46    | 93517    | 56.345   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 112.680% |
| 24) Chloroform-d              | 5.058  | 84    | 59145    | 4.743    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.800%  |
| 26) 1,2-Dichloroethane-d4     | 5.697  | 65    | 30735    | 4.891    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 97.800%  |
| 32) Benzene-d6                | 5.723  | 84    | 106882   | 4.620    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 92.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.688  | 67    | 38094    | 4.728    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 94.600%  |
| 41) Toluene-d8                | 7.894  | 98    | 91359    | 4.371    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 87.400%  |
| 43) trans-1,3-Dichloroprop... | 8.173  | 79    | 15367    | 4.711    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 94.200%  |
| 46) 2-Hexanone-d5             | 8.630  | 63    | 77796    | 53.716   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 107.440% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.752 | 84    | 34642    | 5.006    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 100.200% |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152   | 35916    | 4.974    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 99.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 40404    | 4.865    | ug/L   | 100      |
| 3) Chloromethane              | 1.518  | 50    | 43104    | 4.981    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.601  | 62    | 47705    | 5.004    | ug/L   | 99       |
| 6) Bromomethane               | 1.855  | 94    | 26869    | 4.532    | ug/L   | 97       |
| 8) Chloroethane               | 1.932  | 64    | 28273    | 5.036    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.138  | 101   | 62724    | 4.776    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.579  | 101   | 35999    | 4.979    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.579  | 96    | 32741    | 4.892    | ug/L   | 94       |
| 13) Acetone                   | 2.659  | 43    | 48482    | 40.693   | ug/L # | 25       |
| 14) Carbon disulfide          | 2.791  | 76    | 103224   | 5.108    | ug/L   | 98       |
| 15) Methyl Acetate            | 2.955  | 43    | 14086    | 4.842    | ug/L # | 82       |
| 16) Methylene chloride        | 3.042  | 84    | 40361    | 5.213    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 3.360  | 73    | 94128    | 5.180    | ug/L   | 100      |
| 18) trans-1,2-Dichloroethene  | 3.347  | 96    | 35010    | 4.944    | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.865  | 63    | 69317    | 5.197    | ug/L   | 100      |
| 21) 2-Butanone                | 4.717  | 43    | 89211    | 50.687   | ug/L   | 94       |
| 22) cis-1,2-Dichloroethene    | 4.662  | 96    | 40134    | 5.022    | ug/L   | 95       |
| 23) Bromochloromethane        | 4.968  | 128   | 16740    | 5.289    | ug/L   | 98       |
| 25) Chloroform                | 5.083  | 83    | 70910    | 5.086    | ug/L   | 94       |

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 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

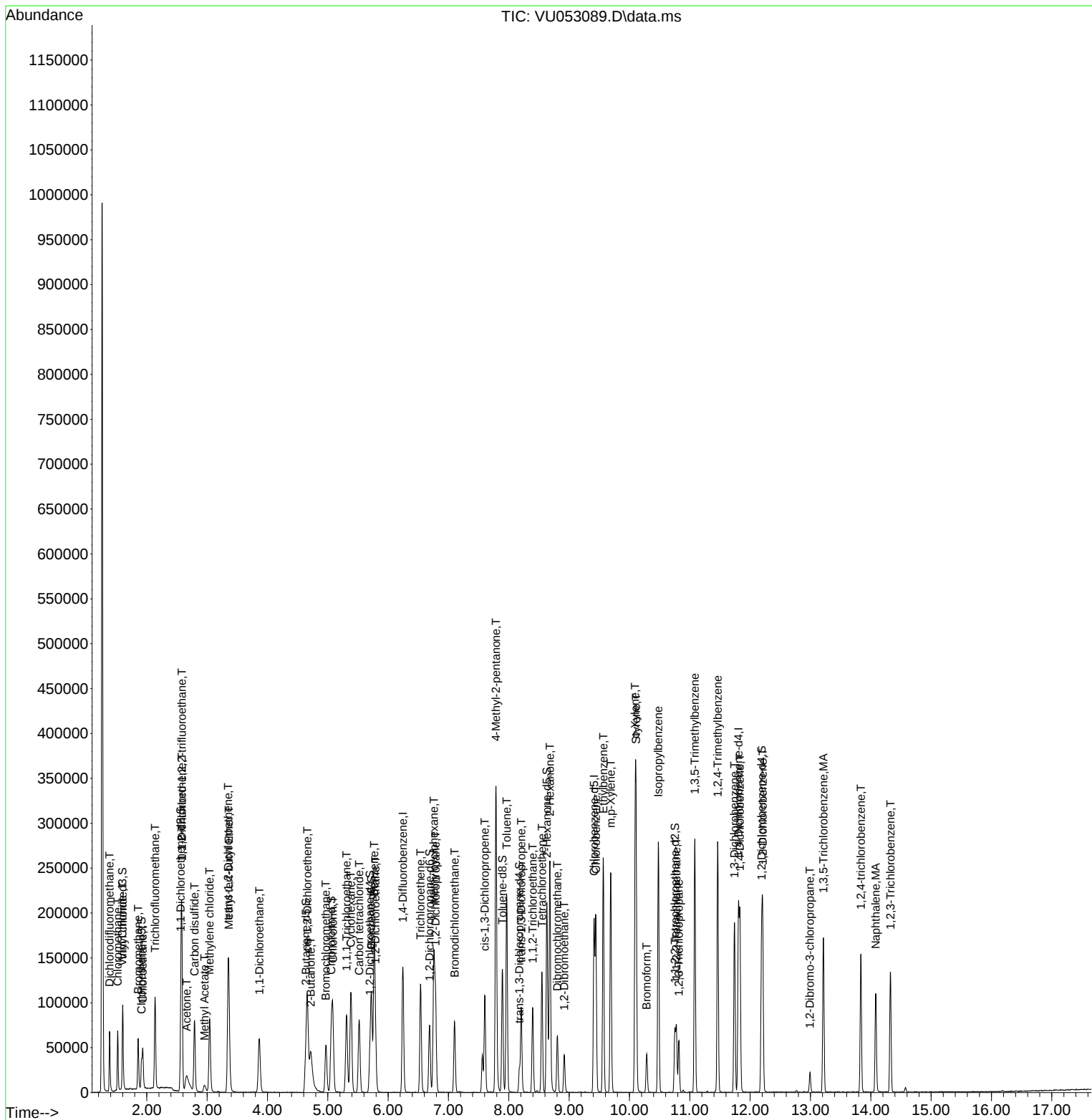
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005140

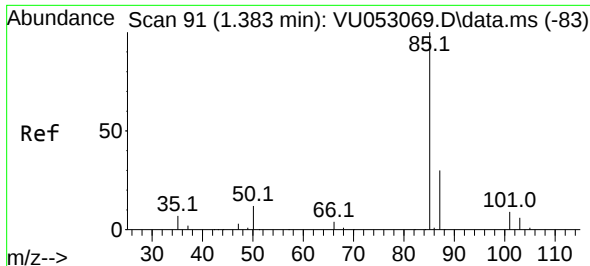
Quant Time: Feb 14 00:49:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR021023WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Feb 14 00:41:52 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.791  | 62   | 44488    | 5.191  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.312  | 97   | 61425    | 4.994  | ug/L  | 97       |
| 30) Cyclohexane               | 5.382  | 56   | 61986    | 5.040  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.521  | 117  | 52609    | 5.125  | ug/L  | 99       |
| 33) Benzene                   | 5.768  | 78   | 152744   | 5.149  | ug/L  | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 41372    | 4.956  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.759  | 83   | 66551    | 4.924  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 41894    | 5.186  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.103  | 83   | 51198    | 4.888  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.601  | 75   | 65590    | 5.090  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone      | 7.787  | 43   | 218057   | 51.708 | ug/L  | 100      |
| 42) Toluene                   | 7.964  | 91   | 162751   | 5.050  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 53983    | 5.079  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.395  | 97   | 28638    | 4.920  | ug/L  | 97       |
| 47) Tetrachloroethene         | 8.549  | 164  | 26752    | 4.930  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.681  | 43   | 157815   | 50.989 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.803  | 129  | 32745    | 5.160  | ug/L  | 95       |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 27675    | 5.153  | ug/L  | 96       |
| 51) Chlorobenzene             | 9.443  | 112  | 101514   | 5.049  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.565  | 91   | 184888   | 5.055  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.691  | 106  | 69774    | 5.102  | ug/L  | 97       |
| 54) o-Xylene                  | 10.096 | 106  | 68282    | 5.151  | ug/L  | 99       |
| 55) Styrene                   | 10.109 | 104  | 110791   | 5.152  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 36890    | 5.009  | ug/L  | 98       |
| 59) Bromoform                 | 10.286 | 173  | 17341    | 4.935  | ug/L  | 98       |
| 60) Isopropylbenzene          | 10.479 | 105  | 185542   | 5.305  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.819 | 75   | 24233    | 5.221  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.083 | 105  | 154861   | 5.244  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 154343   | 5.222  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.739 | 146  | 72633    | 5.129  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 72744    | 5.126  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 69262    | 5.245  | ug/L  | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.990 | 75   | 6129     | 5.618  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.215 | 180  | 48639    | 4.821  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 42040    | 5.020  | ug/L  | 99       |
| 71) Naphthalene               | 14.083 | 128  | 86339    | 5.140  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 38155    | 5.162  | ug/L  | 100      |

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

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QLast Update : Tue Feb 14 00:41:52 2023  
Response via : Initial Calibration

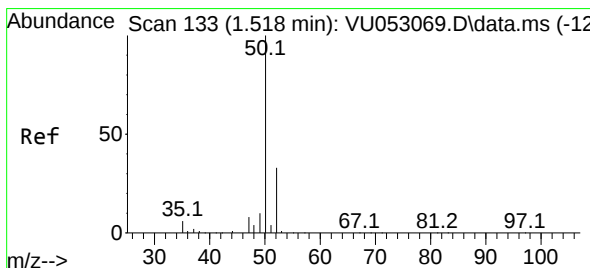
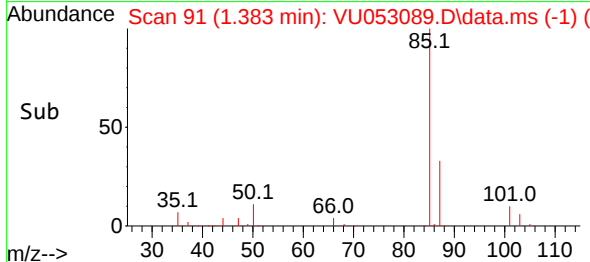
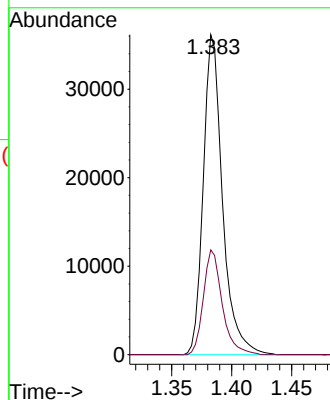
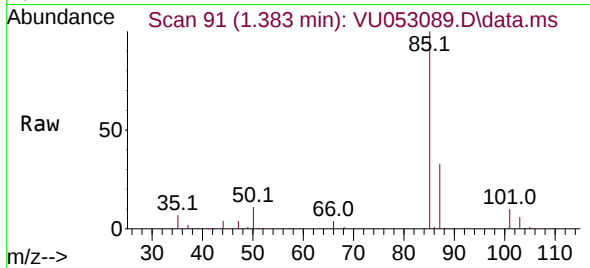




#2  
 Dichlorodifluoromethane  
 Concen: 4.865 ug/L  
 RT: 1.383 min Scan# 91  
 Delta R.T. -0.000 min  
 Lab File: VU053089.D  
 Acq: 13 Feb 2023 18:37

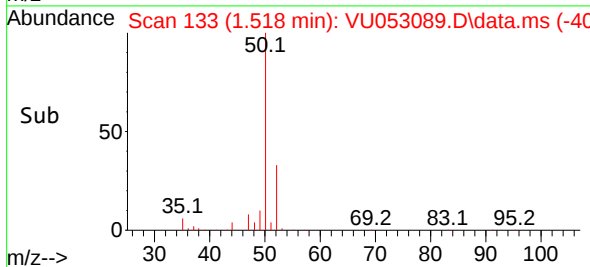
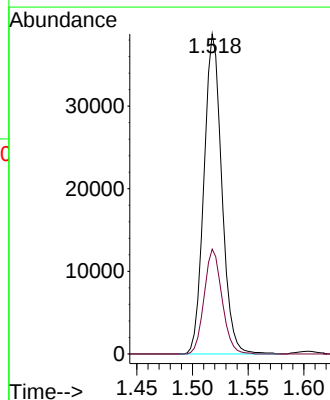
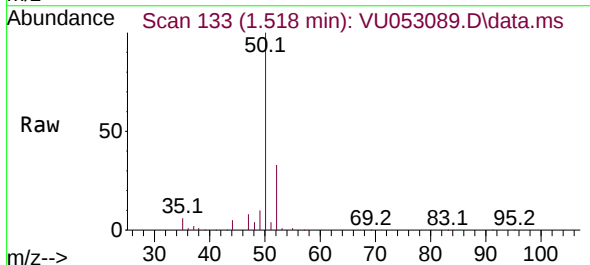
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005140

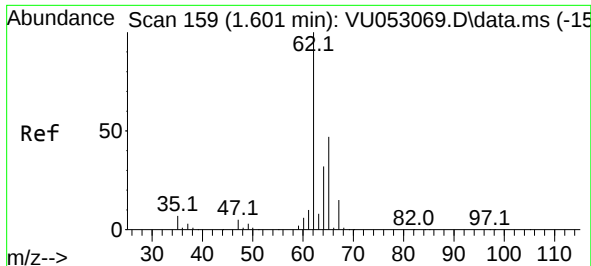
Tgt Ion: 85 Resp: 40404  
 Ion Ratio Lower Upper  
 85 100  
 87 32.0 25.5 38.3



#3  
 Chloromethane  
 Concen: 4.981 ug/L  
 RT: 1.518 min Scan# 133  
 Delta R.T. -0.000 min  
 Lab File: VU053089.D  
 Acq: 13 Feb 2023 18:37

Tgt Ion: 50 Resp: 43104  
 Ion Ratio Lower Upper  
 50 100  
 52 32.7 24.1 44.7

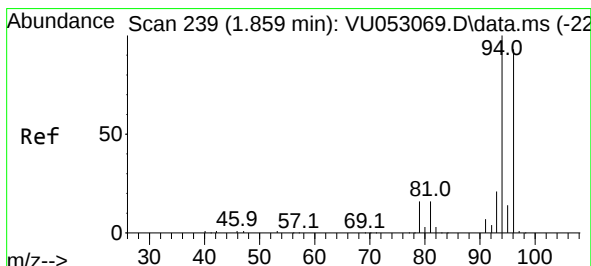
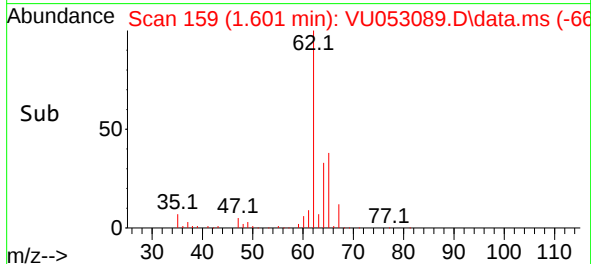
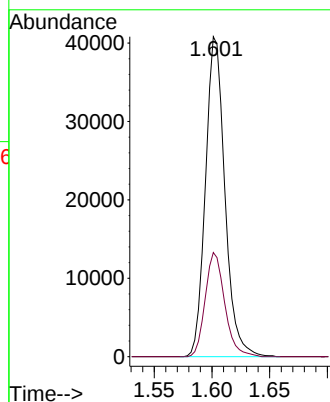
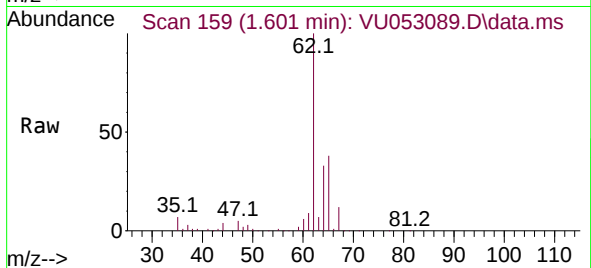




#5  
 Vinyl chloride  
 Concen: 5.004 ug/L  
 RT: 1.601 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VU053089.D  
 Acq: 13 Feb 2023 18:37

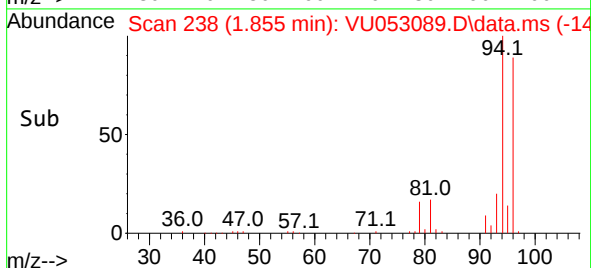
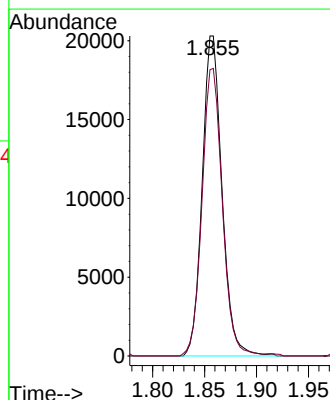
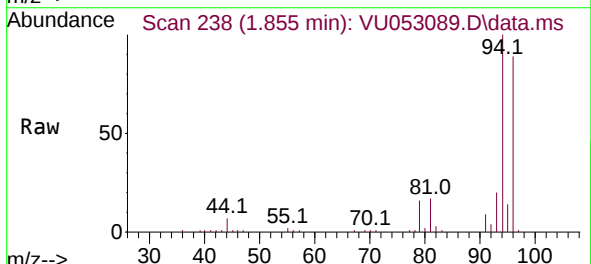
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005140

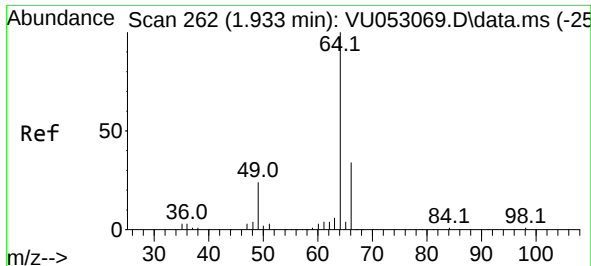
Tgt Ion: 62 Resp: 47705  
 Ion Ratio Lower Upper  
 62 100  
 64 32.6 22.5 41.9



#6  
 Bromomethane  
 Concen: 4.532 ug/L  
 RT: 1.855 min Scan# 238  
 Delta R.T. -0.003 min  
 Lab File: VU053089.D  
 Acq: 13 Feb 2023 18:37

Tgt Ion: 94 Resp: 26869  
 Ion Ratio Lower Upper  
 94 100  
 96 89.4 64.8 120.3

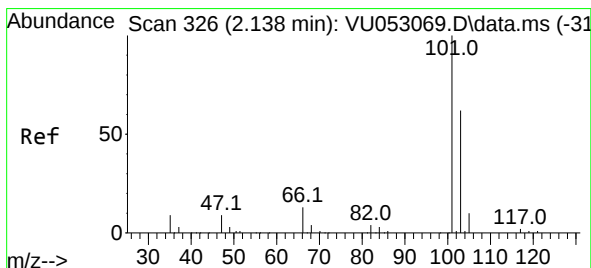
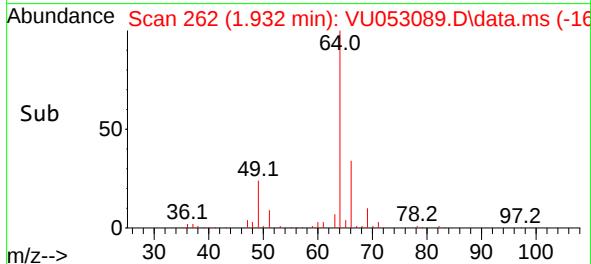
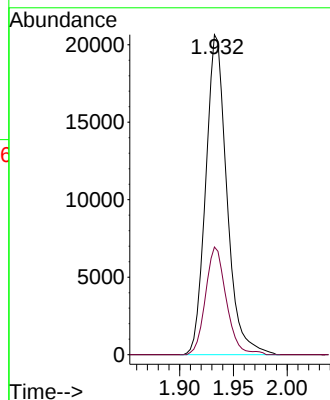
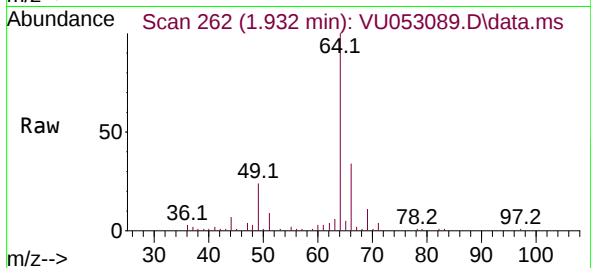




#8  
Chloroethane  
Concen: 5.036 ug/L  
RT: 1.932 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

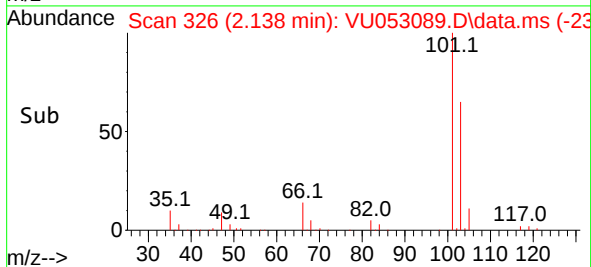
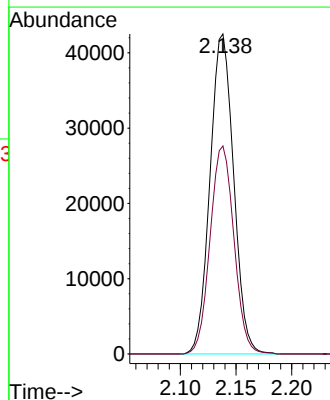
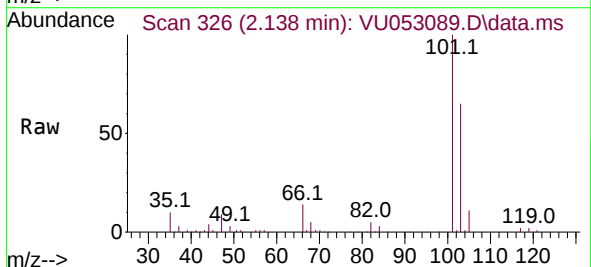
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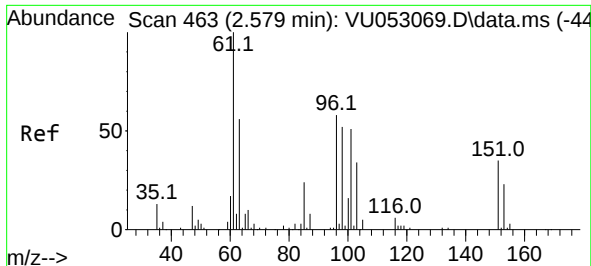
Tgt Ion: 64 Resp: 28273  
Ion Ratio Lower Upper  
64 100  
66 33.6 23.9 44.3



#9  
Trichlorofluoromethane  
Concen: 4.776 ug/L  
RT: 2.138 min Scan# 326  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion:101 Resp: 62724  
Ion Ratio Lower Upper  
101 100  
103 65.6 52.6 78.8

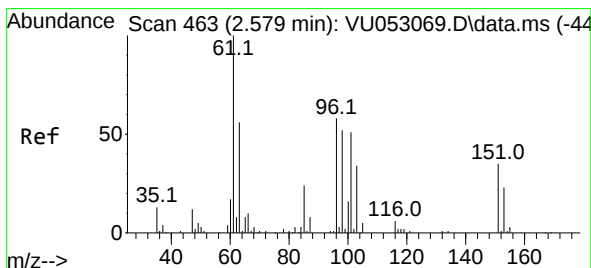
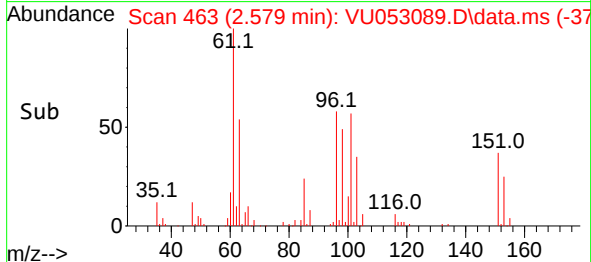
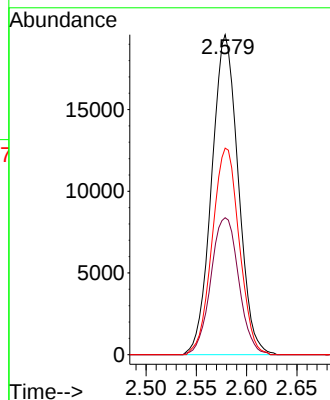
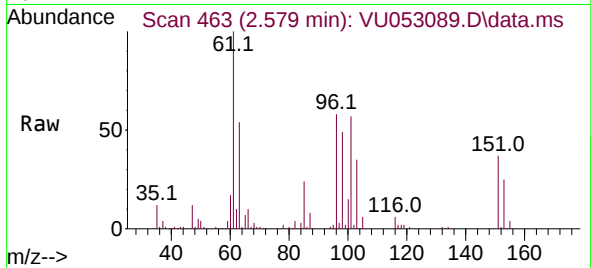




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 4.979 ug/L  
RT: 2.579 min Scan# 463  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

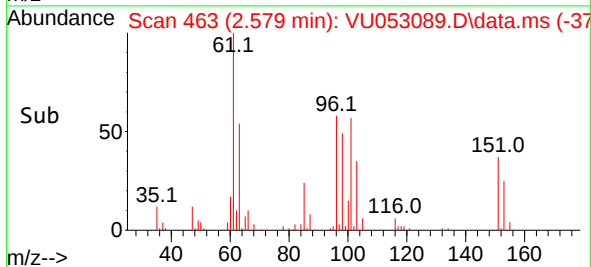
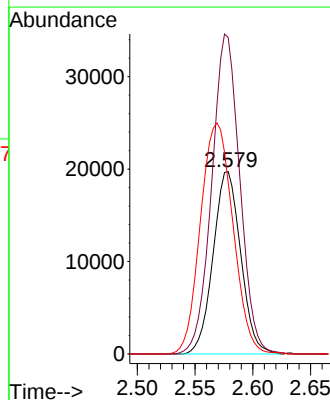
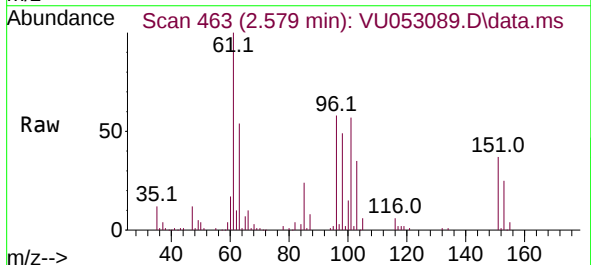
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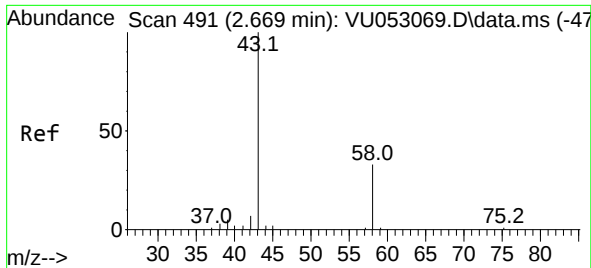
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Ion Ratio Lower Upper  
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85 44.9 36.8 55.2  
151 65.7 53.8 80.8



#12  
1,1-Dichloroethene  
Concen: 4.892 ug/L  
RT: 2.579 min Scan# 463  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion: 96 Resp: 32741  
Ion Ratio Lower Upper  
96 100  
61 173.5 115.1 213.7  
63 94.0 63.6 118.0





#13

Acetone

Concen: 40.693 ug/L

RT: 2.659 min Scan# 491

Delta R.T. -0.010 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

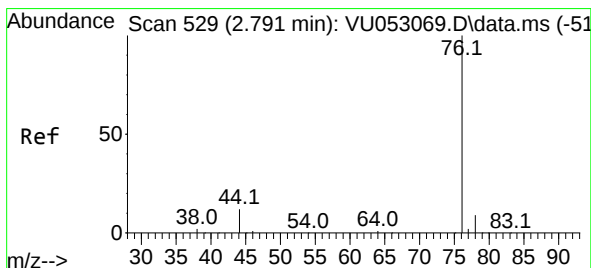
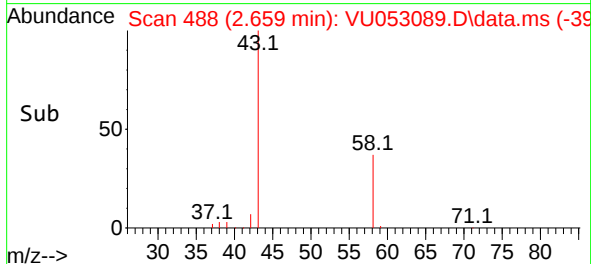
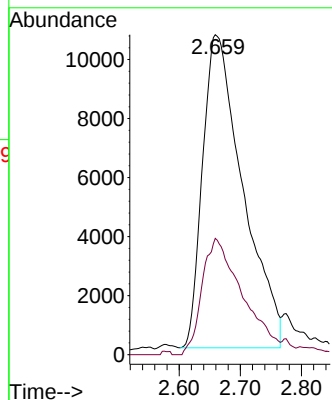
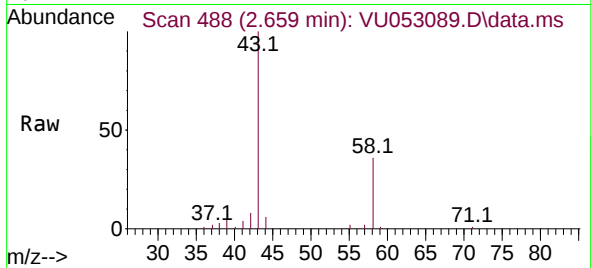
VSTD005140

Tgt Ion: 43 Resp: 48482

Ion Ratio Lower Upper

43 100

58 37.4 0.0 19.6#



#14

Carbon disulfide

Concen: 5.108 ug/L

RT: 2.791 min Scan# 529

Delta R.T. -0.000 min

Lab File: VU053089.D

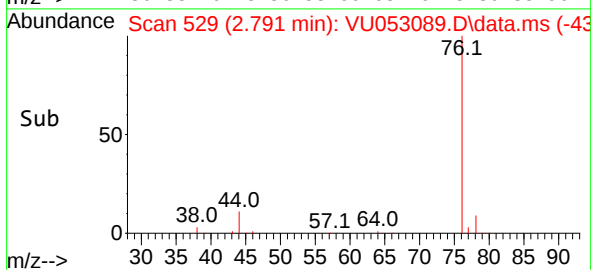
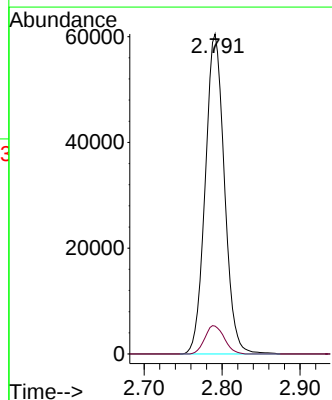
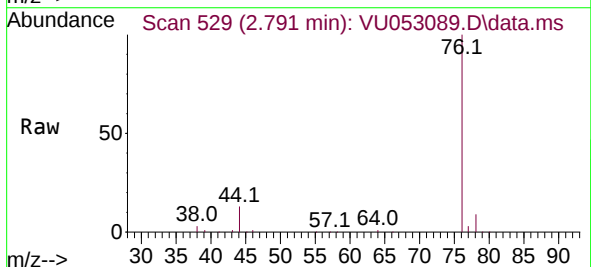
Acq: 13 Feb 2023 18:37

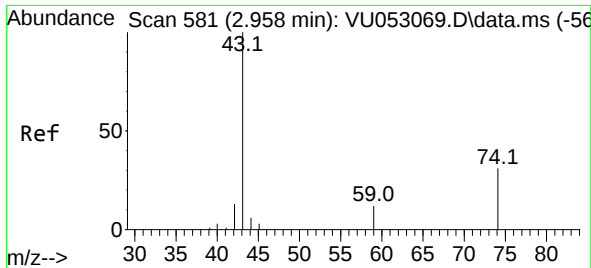
Tgt Ion: 76 Resp: 103224

Ion Ratio Lower Upper

76 100

78 8.7 7.5 11.3

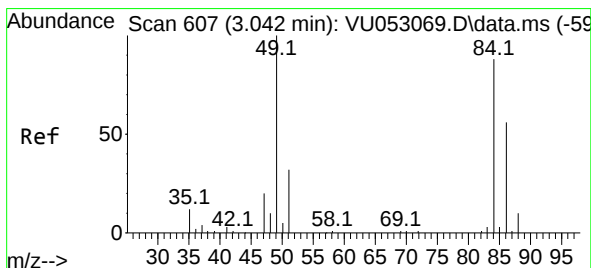
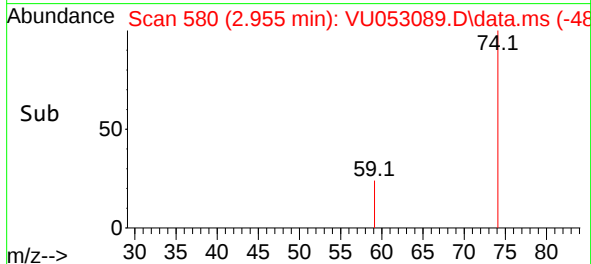
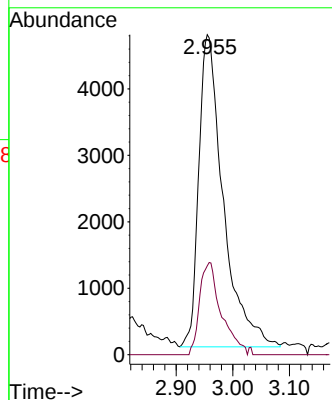
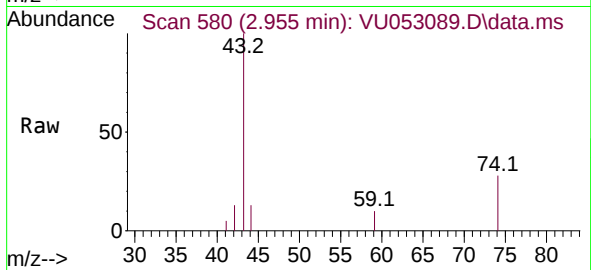




#15  
Methyl Acetate  
Concen: 4.842 ug/L  
RT: 2.955 min Scan# 581  
Delta R.T. -0.003 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

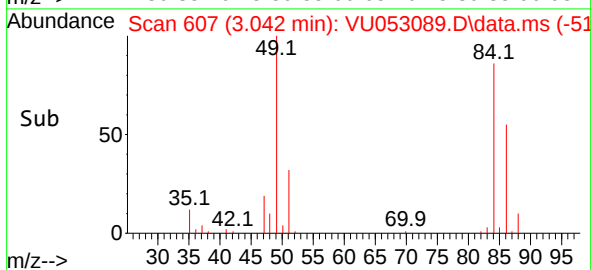
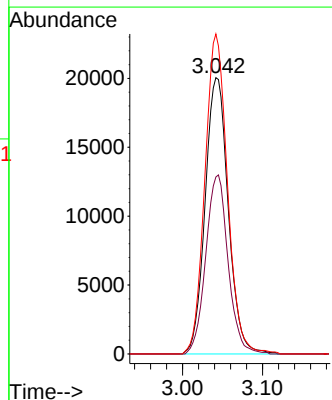
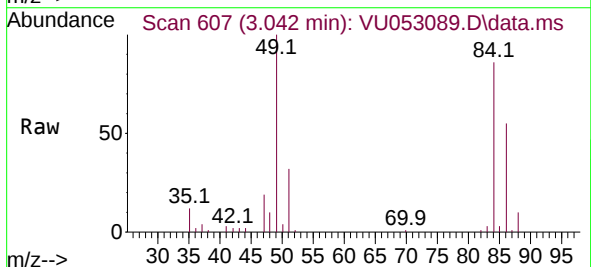
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

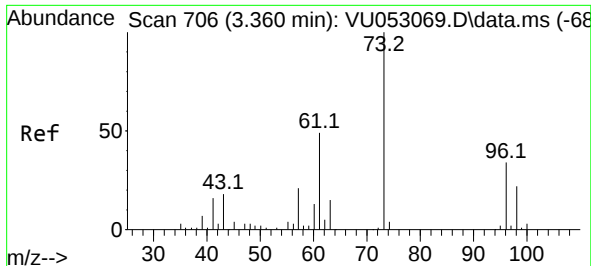
Tgt Ion: 43 Resp: 14086  
Ion Ratio Lower Upper  
43 100  
74 26.1 14.3 21.5#



#16  
Methylene chloride  
Concen: 5.213 ug/L  
RT: 3.042 min Scan# 607  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion: 84 Resp: 40361  
Ion Ratio Lower Upper  
84 100  
86 64.1 44.9 83.3  
49 115.8 82.6 153.4

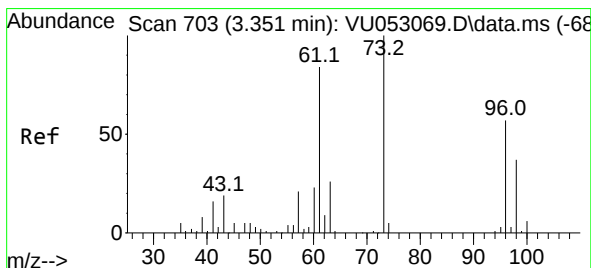
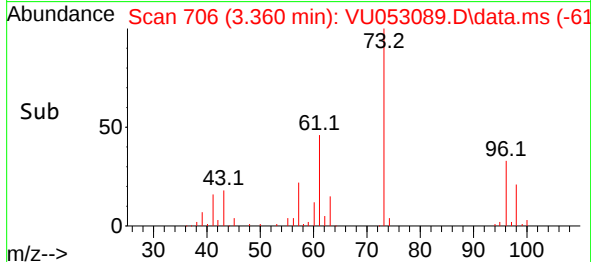
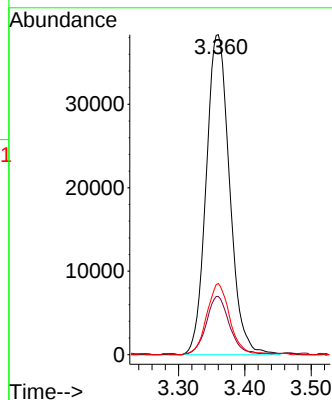
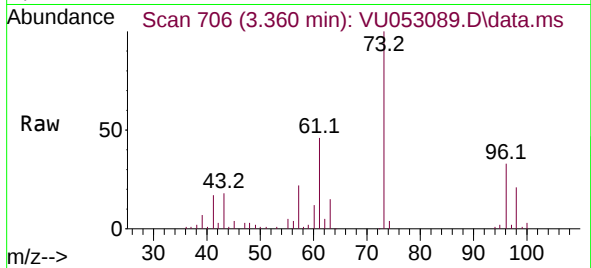




#17  
Methyl tert-butyl Ether  
Concen: 5.180 ug/L  
RT: 3.360 min Scan# 706  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

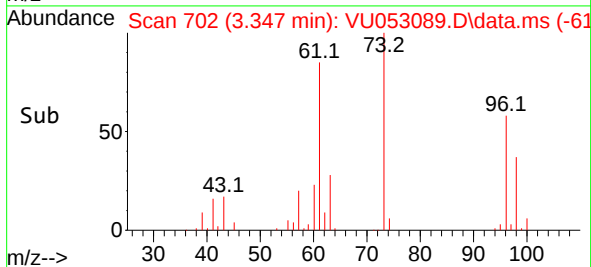
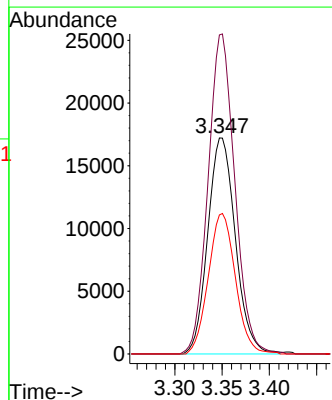
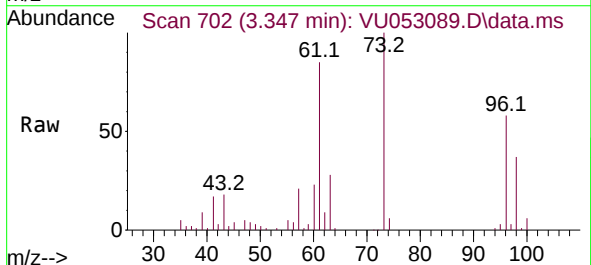
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

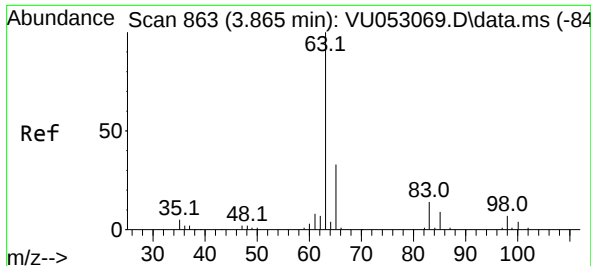
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 73 | Resp: | 94128 |       |
| Ion         | Ratio | Lower | Upper |
| 73          | 100   |       |       |
| 43          | 18.1  | 14.6  | 21.8  |
| 57          | 21.7  | 17.1  | 25.7  |



#18  
trans-1,2-Dichloroethene  
Concen: 4.944 ug/L  
RT: 3.347 min Scan# 702  
Delta R.T. -0.003 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 96 | Resp: | 35010 |       |
| Ion         | Ratio | Lower | Upper |
| 96          | 100   |       |       |
| 61          | 147.7 | 99.5  | 184.9 |
| 98          | 64.4  | 44.8  | 83.2  |

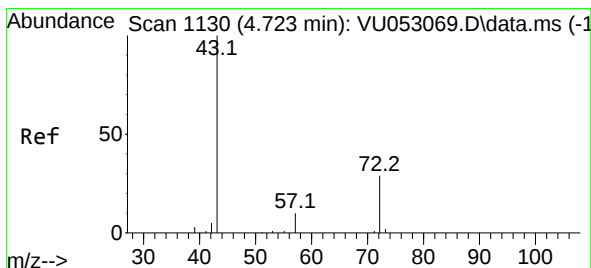
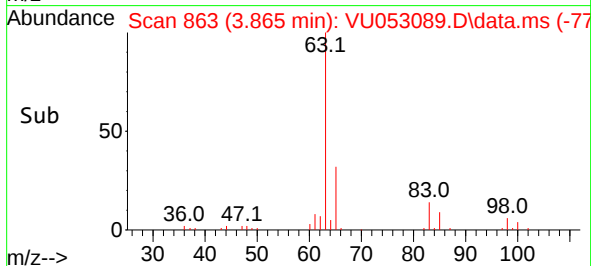
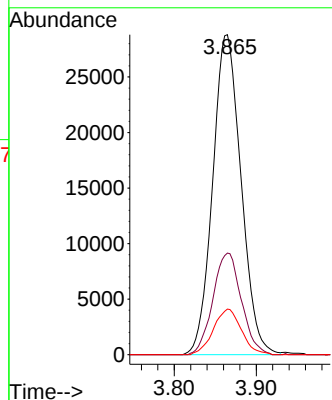
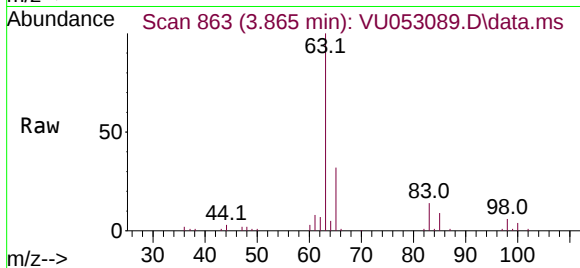




#19  
1,1-Dichloroethane  
Concen: 5.197 ug/L  
RT: 3.865 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

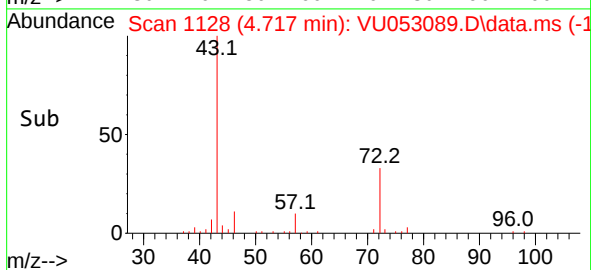
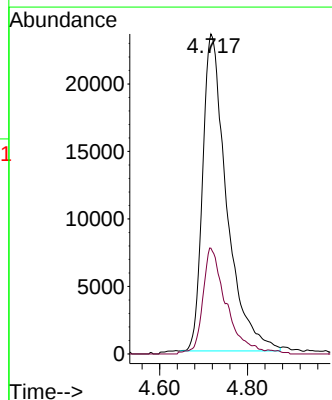
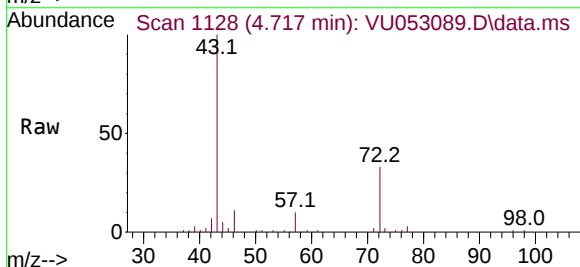
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

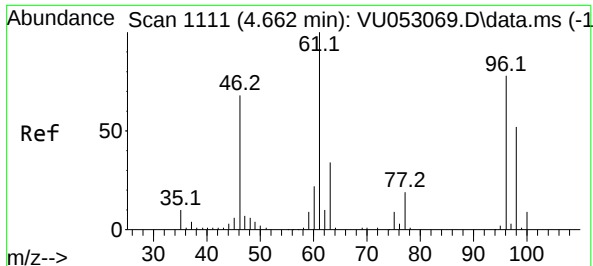
Tgt Ion: 63 Resp: 69317  
Ion Ratio Lower Upper  
63 100  
65 31.7 22.3 41.3  
83 14.3 9.8 18.2



#21  
2-Butanone  
Concen: 50.687 ug/L  
RT: 4.717 min Scan# 1128  
Delta R.T. -0.007 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion: 43 Resp: 89211  
Ion Ratio Lower Upper  
43 100  
72 32.4 14.5 43.5

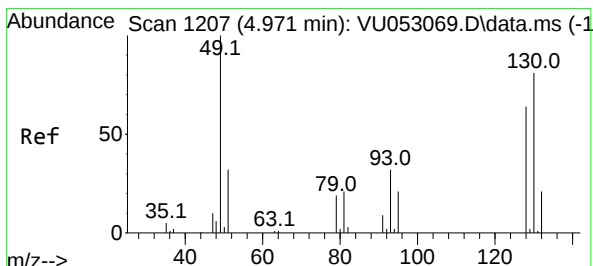
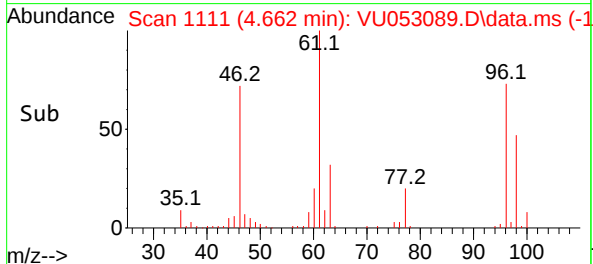
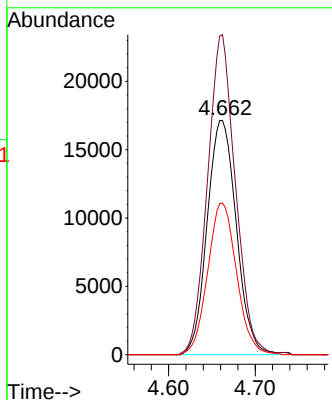
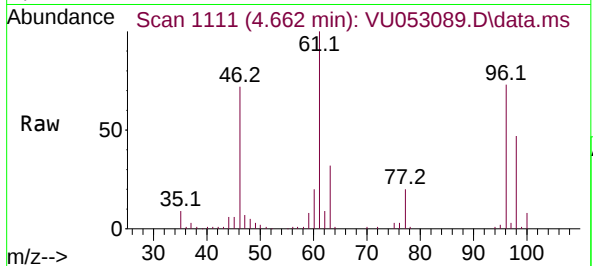




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.022 ug/L  
 RT: 4.662 min Scan# 1111  
 Delta R.T. -0.000 min  
 Lab File: VU053089.D  
 Acq: 13 Feb 2023 18:37

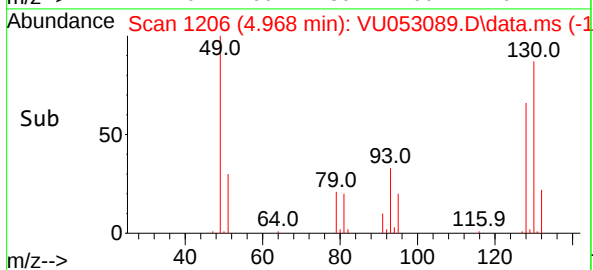
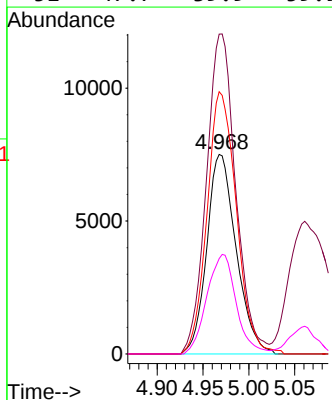
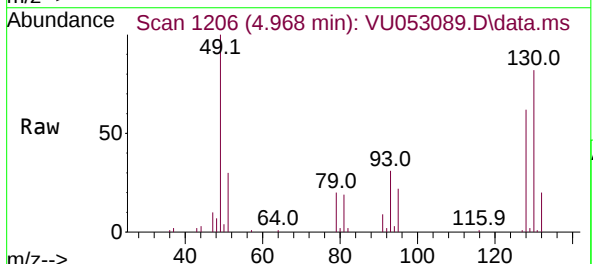
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005140

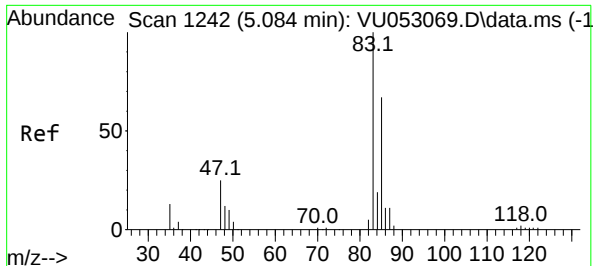
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 96 | Resp: | 40134       |
| Ion         | Ratio | Lower Upper |
| 96          | 100   |             |
| 61          | 136.6 | 90.9 168.9  |
| 98          | 64.7  | 47.0 87.4   |



#23  
 Bromochloromethane  
 Concen: 5.289 ug/L  
 RT: 4.968 min Scan# 1206  
 Delta R.T. -0.003 min  
 Lab File: VU053089.D  
 Acq: 13 Feb 2023 18:37

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 128 | Resp: | 16740       |
| Ion          | Ratio | Lower Upper |
| 128          | 100   |             |
| 49           | 160.2 | 114.2 212.0 |
| 130          | 131.4 | 91.6 170.2  |
| 51           | 47.7  | 39.9 59.9   |





#25

Chloroform

Concen: 5.086 ug/L

RT: 5.083 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

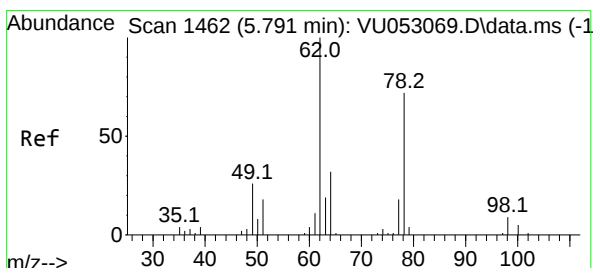
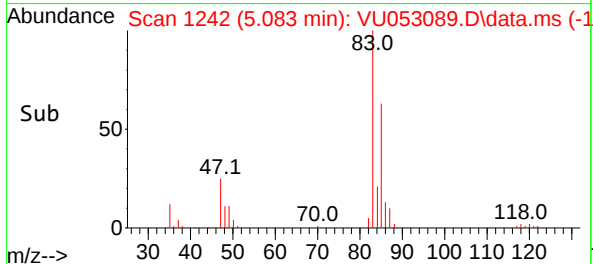
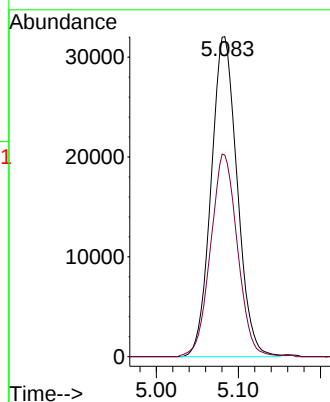
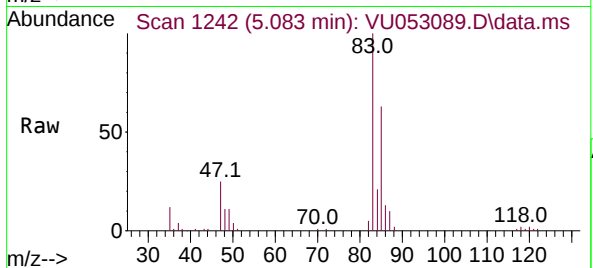
VSTD005140

Tgt Ion: 83 Resp: 70910

Ion Ratio Lower Upper

83 100

85 63.0 47.7 88.5



#27

1,2-Dichloroethane

Concen: 5.191 ug/L

RT: 5.791 min Scan# 1462

Delta R.T. -0.000 min

Lab File: VU053089.D

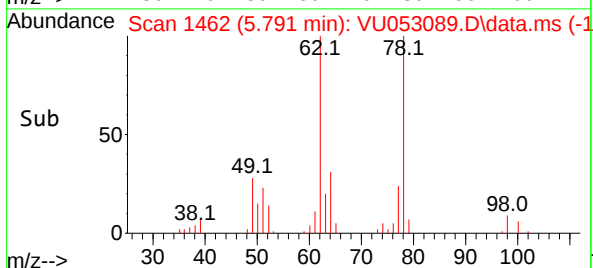
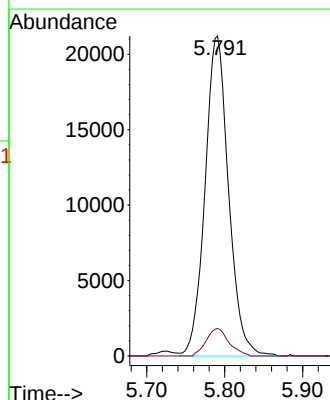
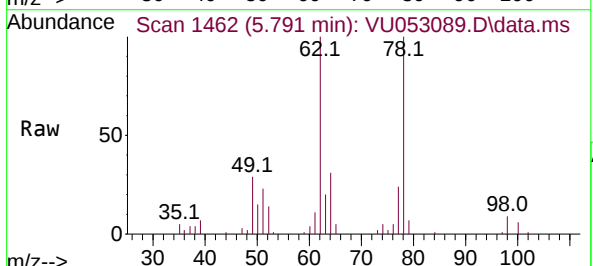
Acq: 13 Feb 2023 18:37

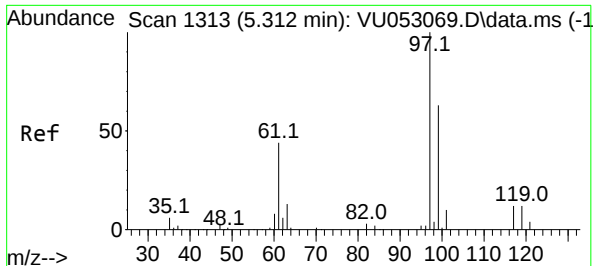
Tgt Ion: 62 Resp: 44488

Ion Ratio Lower Upper

62 100

98 8.6 7.1 10.7

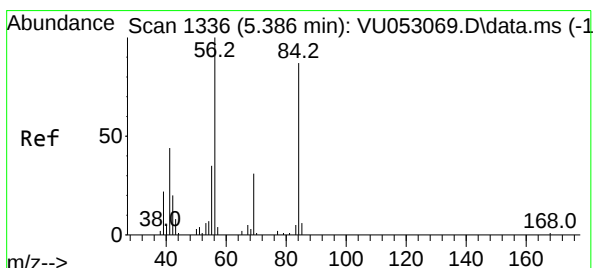
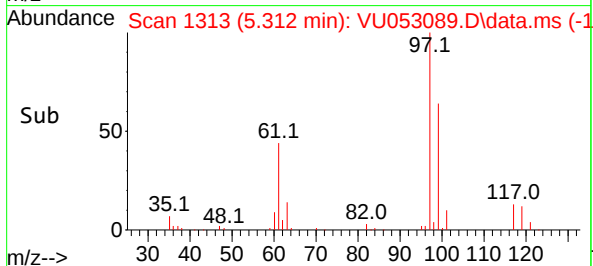
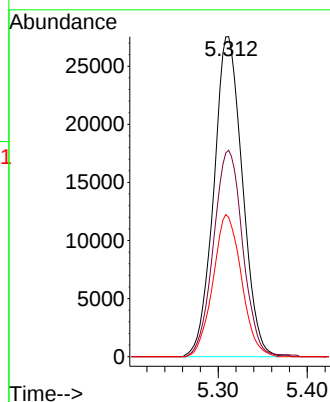
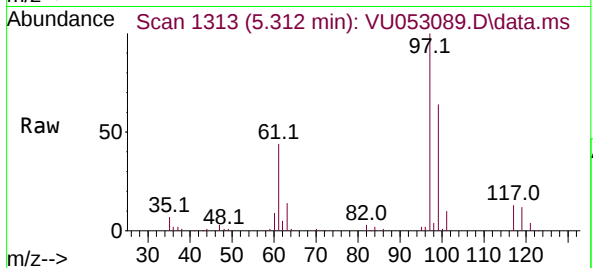




#29  
1,1,1-Trichloroethane  
Concen: 4.994 ug/L  
RT: 5.312 min Scan# 1313  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

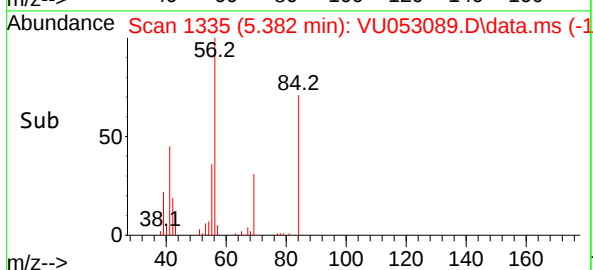
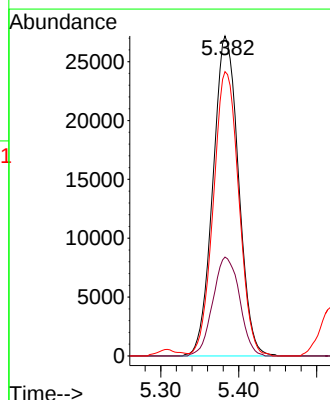
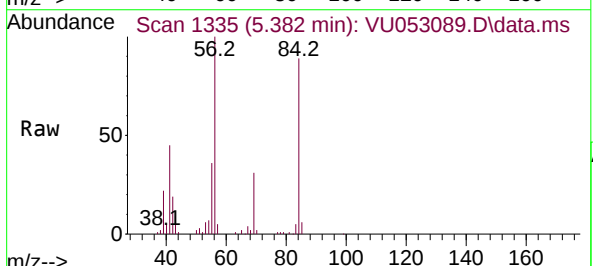
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

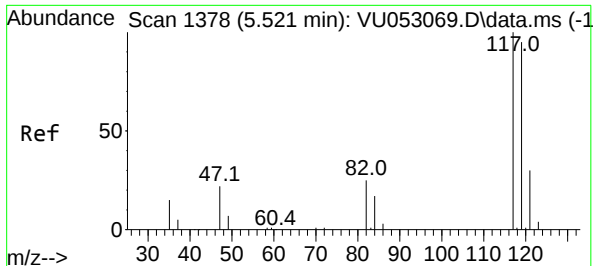
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 61425 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 66.2     | 51.0 76.6   |
| 61 44.2     | 34.2 51.4   |



#30  
Cyclohexane  
Concen: 5.040 ug/L  
RT: 5.382 min Scan# 1335  
Delta R.T. -0.003 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 61986 |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 32.2     | 27.0 40.6   |
| 84 88.5     | 70.8 106.2  |

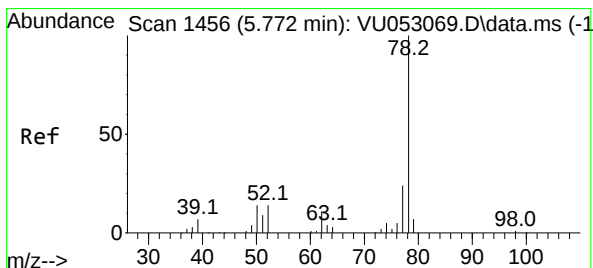
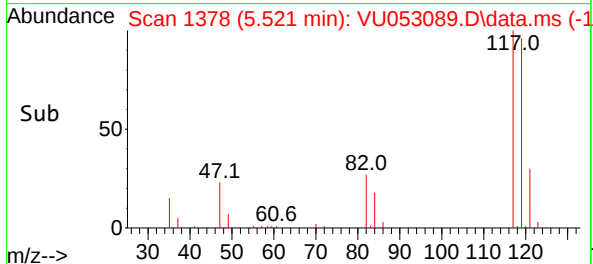
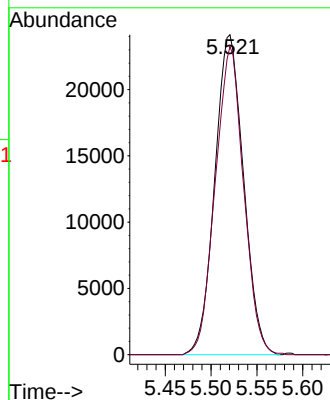
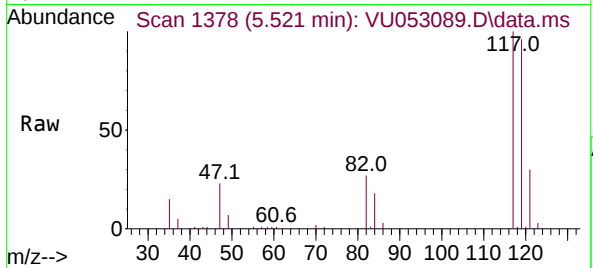




#31  
Carbon tetrachloride  
Concen: 5.125 ug/L  
RT: 5.521 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

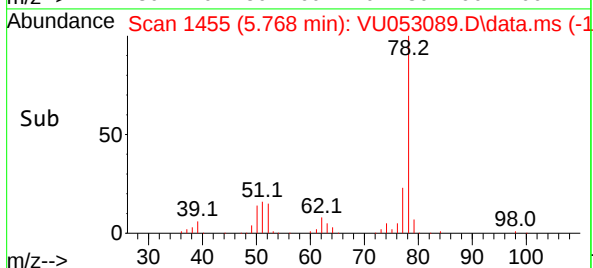
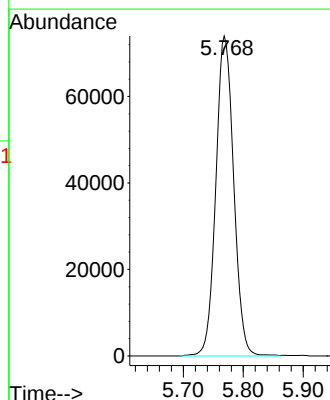
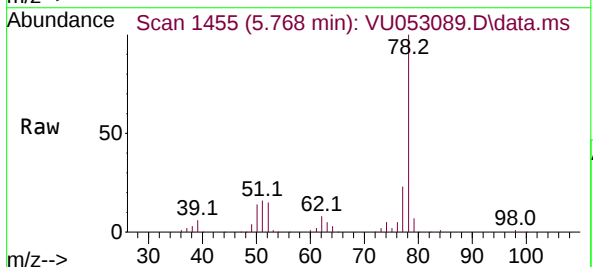
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

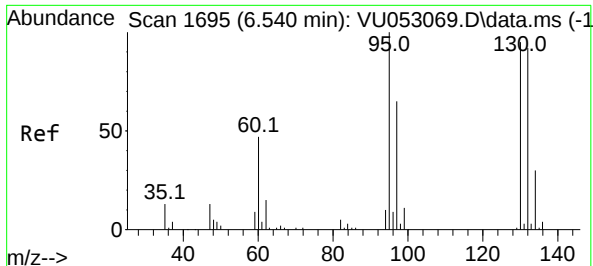
Tgt Ion:117 Resp: 52609  
Ion Ratio Lower Upper  
117 100  
119 94.8 75.4 113.0



#33  
Benzene  
Concen: 5.149 ug/L  
RT: 5.768 min Scan# 1455  
Delta R.T. -0.003 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion: 78 Resp: 152744



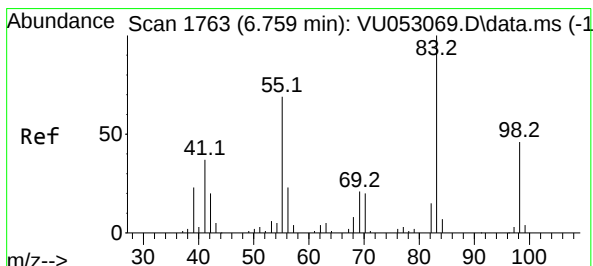
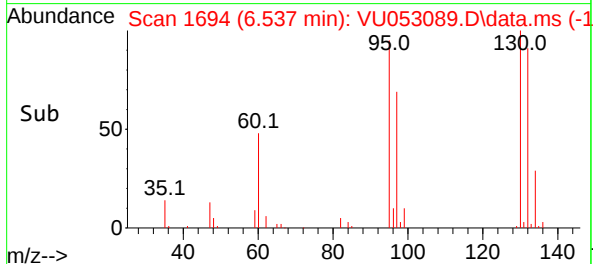
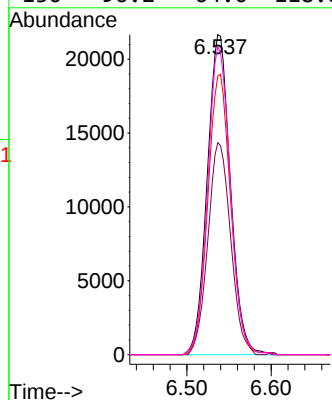
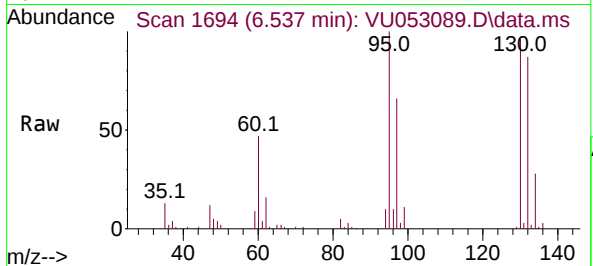


#34  
Trichloroethene  
Concen: 4.956 ug/L  
RT: 6.537 min Scan# 1  
Delta R.T. -0.003 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

Tgt Ion: 95 Resp: 41372

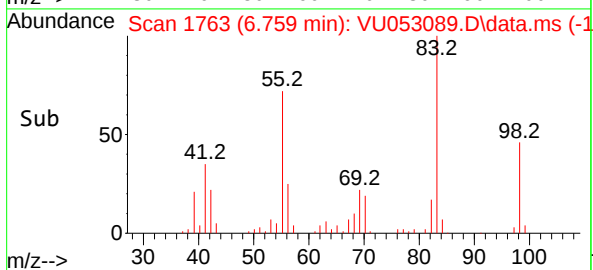
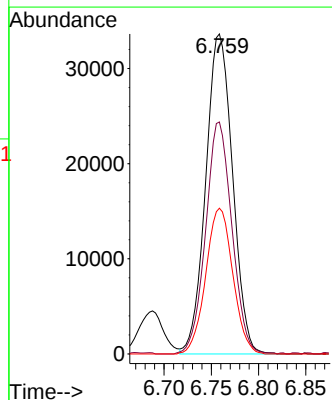
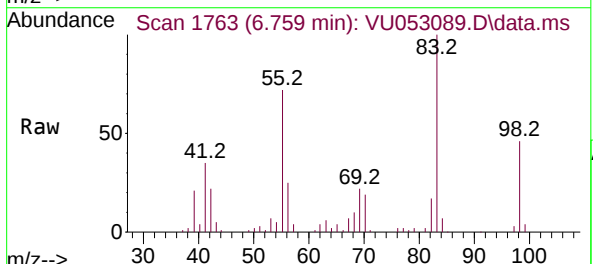
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.3  | 44.7  | 82.9  |
| 132 | 87.1  | 62.3  | 115.7 |
| 130 | 96.2  | 64.0  | 118.8 |

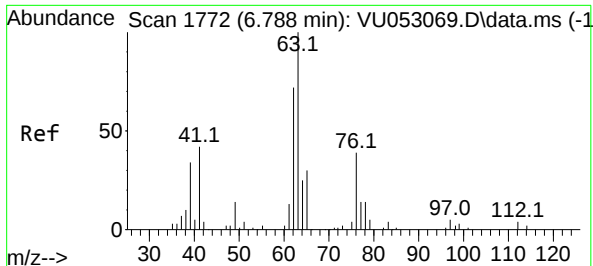


#35  
Methylcyclohexane  
Concen: 4.924 ug/L  
RT: 6.759 min Scan# 1763  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion: 83 Resp: 66551

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 71.0  | 57.9  | 86.9  |
| 98  | 45.8  | 36.4  | 54.6  |





#37

1,2-Dichloropropane

Concen: 5.186 ug/L

RT: 6.787 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

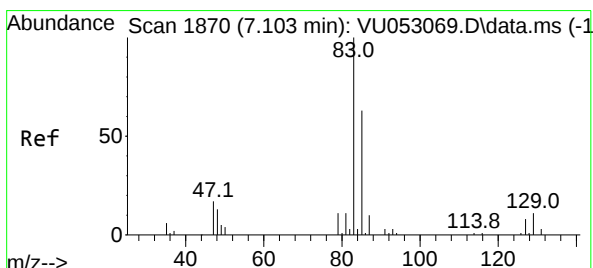
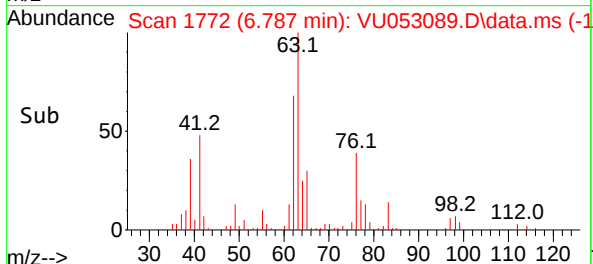
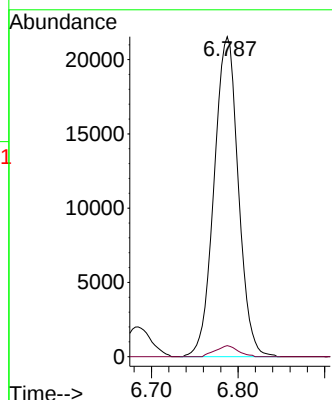
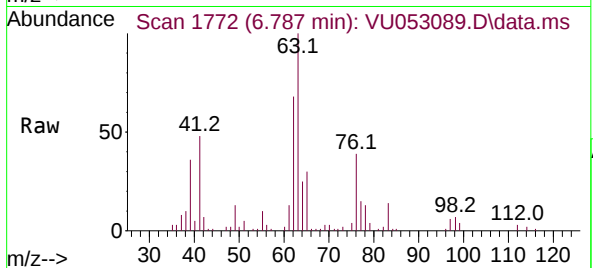
VSTD005140

Tgt Ion: 63 Resp: 41894

Ion Ratio Lower Upper

63 100

112 3.2 2.7 4.1



#38

Bromodichloromethane

Concen: 4.888 ug/L

RT: 7.103 min Scan# 1870

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

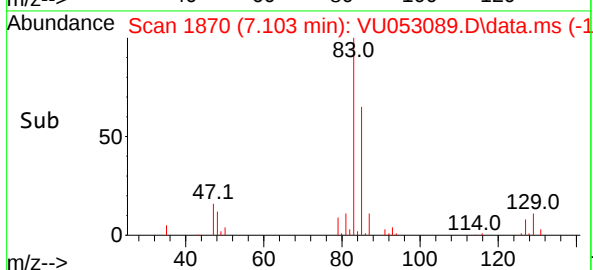
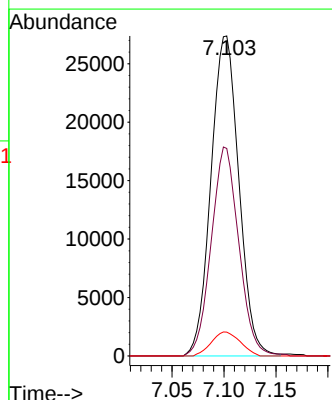
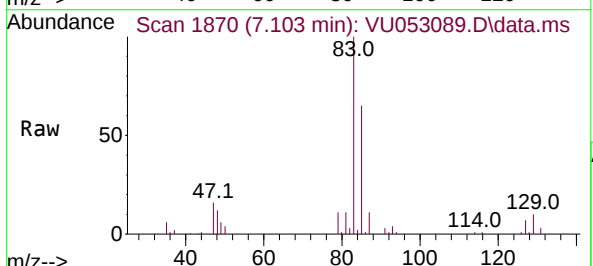
Tgt Ion: 83 Resp: 51198

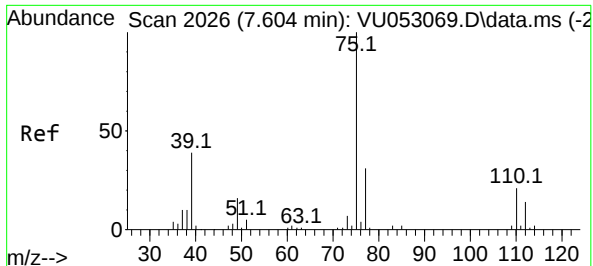
Ion Ratio Lower Upper

83 100

85 64.9 44.7 82.9

127 7.4 6.3 9.5





#39

cis-1,3-Dichloropropene

Concen: 5.090 ug/L

RT: 7.601 min Scan# 2026

Delta R.T. -0.003 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

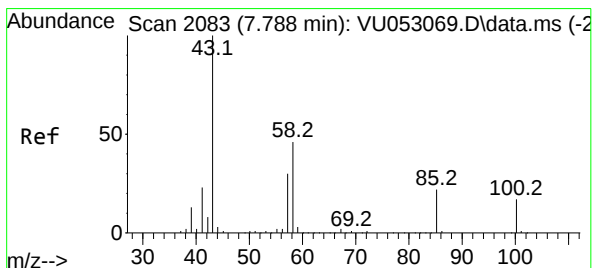
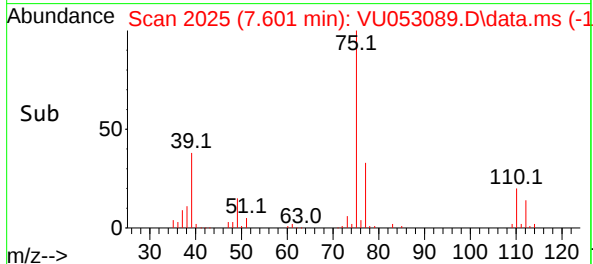
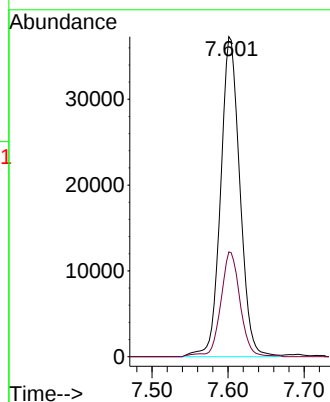
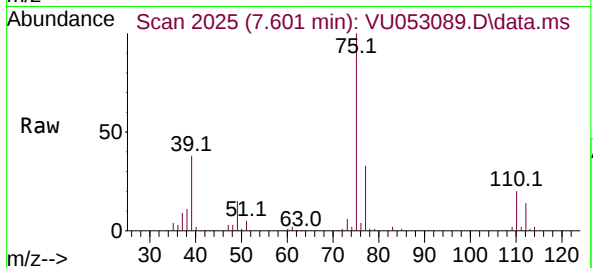
VSTD005140

Tgt Ion: 75 Resp: 65590

Ion Ratio Lower Upper

75 100

77 32.7 21.6 40.0



#40

4-Methyl-2-pentanone

Concen: 51.708 ug/L

RT: 7.787 min Scan# 2083

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

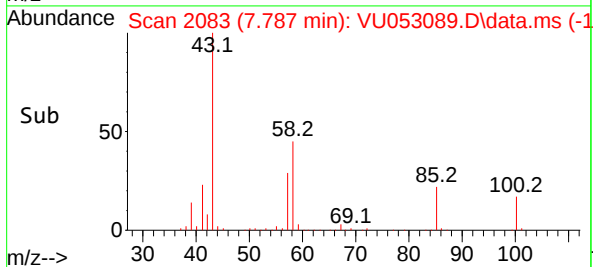
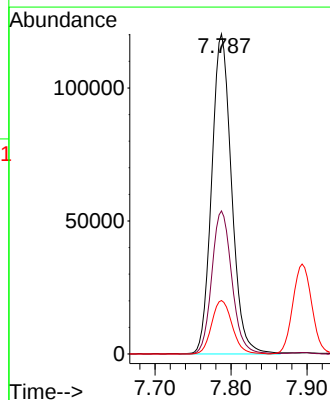
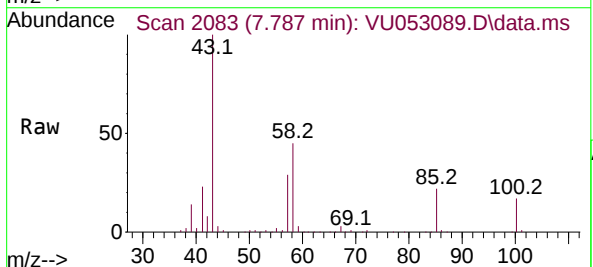
Tgt Ion: 43 Resp: 218057

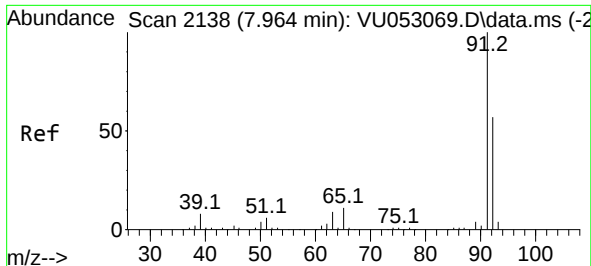
Ion Ratio Lower Upper

43 100

58 45.2 35.9 53.9

100 17.2 13.8 20.6





#42

Toluene

Concen: 5.050 ug/L

RT: 7.964 min Scan# 2138

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

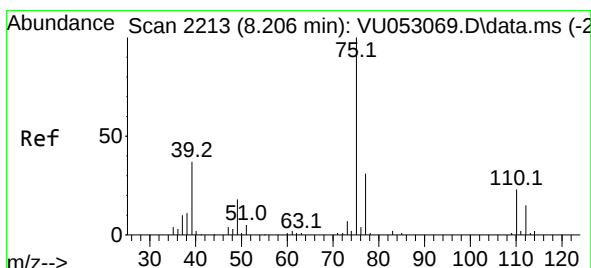
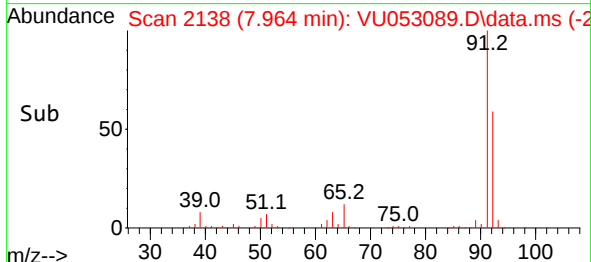
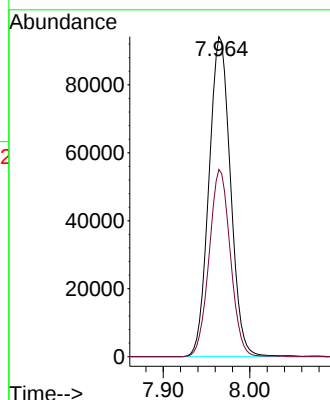
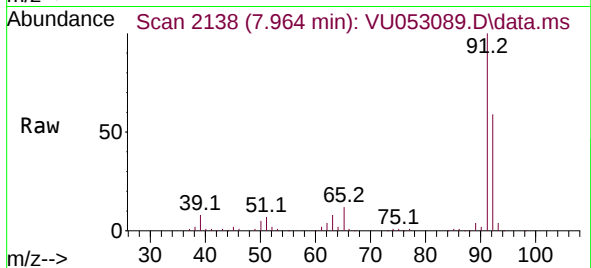
VSTD005140

Tgt Ion: 91 Resp: 162751

Ion Ratio Lower Upper

91 100

92 58.5 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 5.079 ug/L

RT: 8.205 min Scan# 2213

Delta R.T. -0.000 min

Lab File: VU053089.D

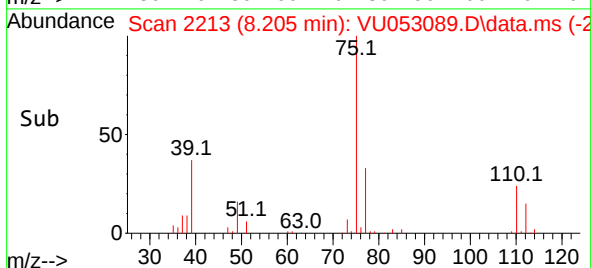
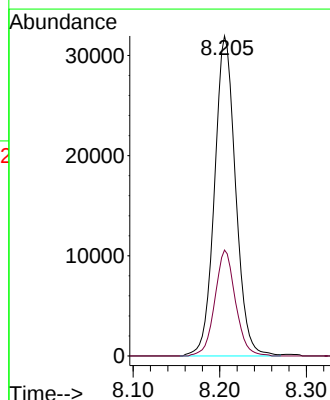
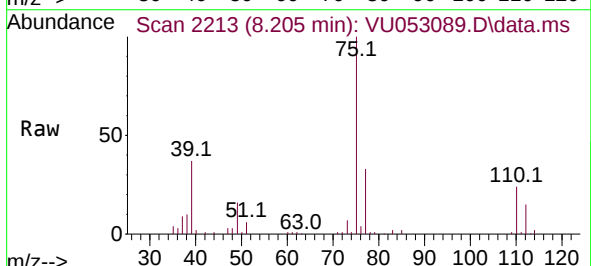
Acq: 13 Feb 2023 18:37

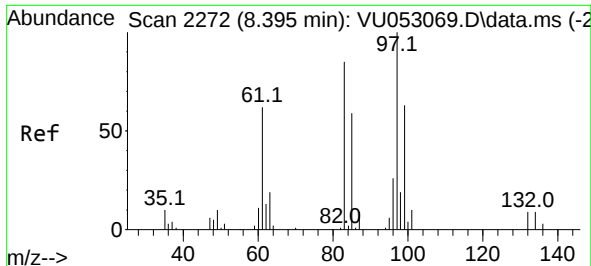
Tgt Ion: 75 Resp: 53983

Ion Ratio Lower Upper

75 100

77 33.1 22.3 41.3



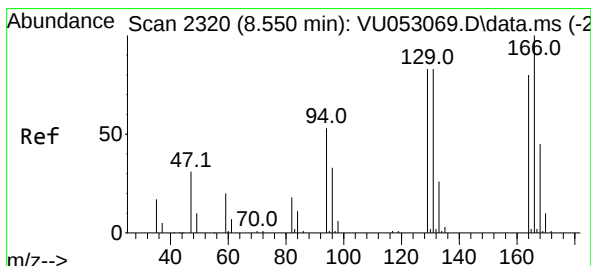
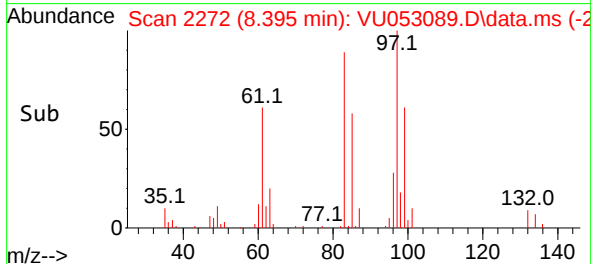
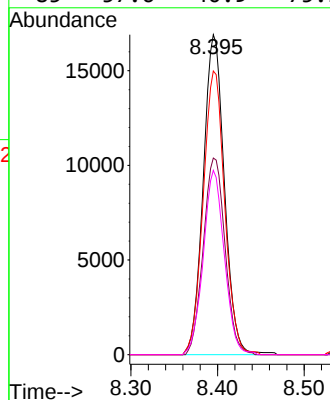
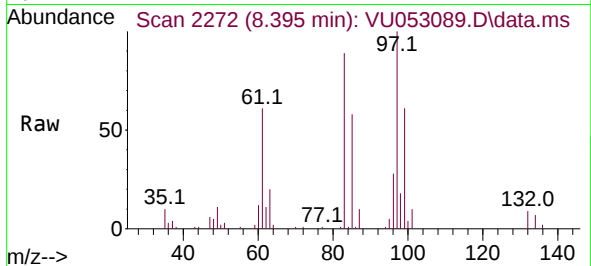


#45  
1,1,2-Trichloroethane  
Concen: 4.920 ug/L  
RT: 8.395 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

Tgt Ion: 97 Resp: 28638

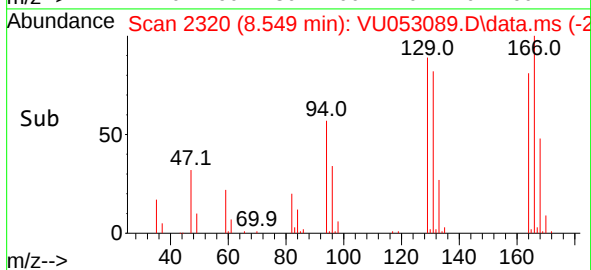
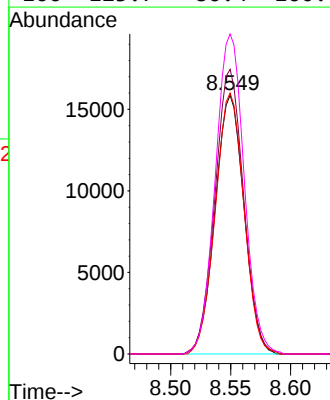
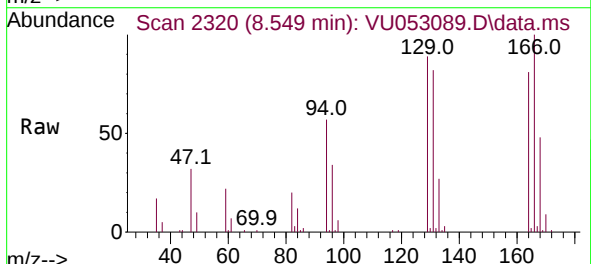
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.4  | 43.0  | 79.8  |
| 83  | 88.7  | 58.0  | 107.8 |
| 85  | 57.6  | 40.9  | 75.9  |

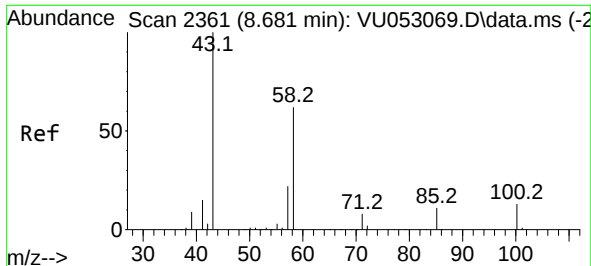


#47  
Tetrachloroethene  
Concen: 4.930 ug/L  
RT: 8.549 min Scan# 2320  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion: 164 Resp: 26752

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 110.0 | 71.7  | 133.1 |
| 131 | 100.9 | 67.8  | 126.0 |
| 166 | 123.7 | 86.4  | 160.4 |

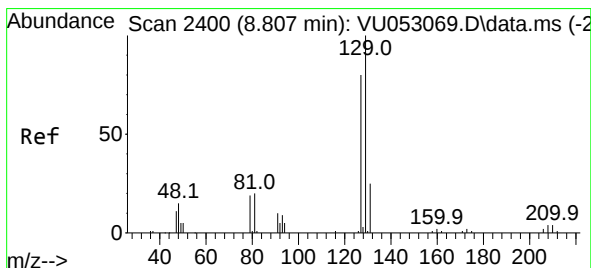
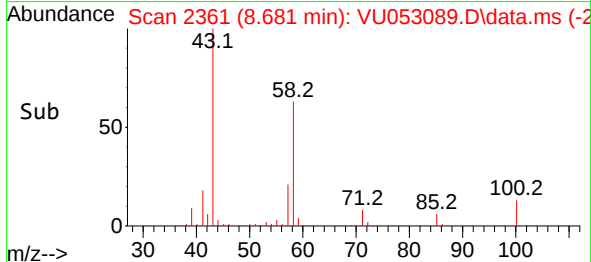
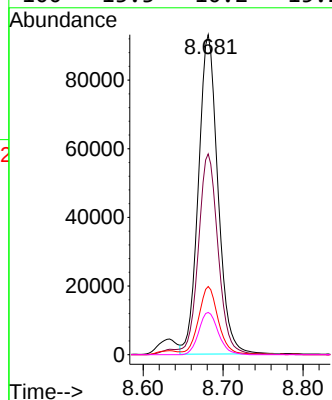
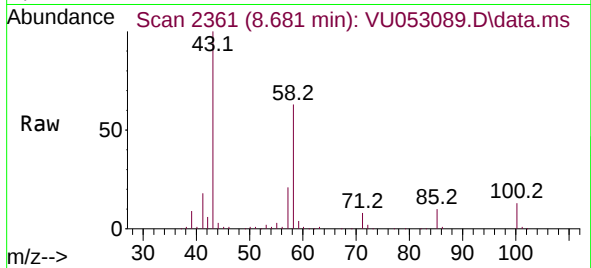




#48  
2-Hexanone  
Concen: 50.989 ug/L  
RT: 8.681 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

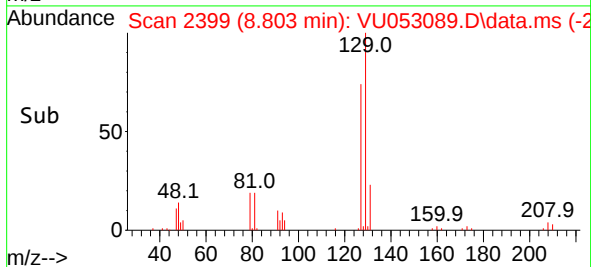
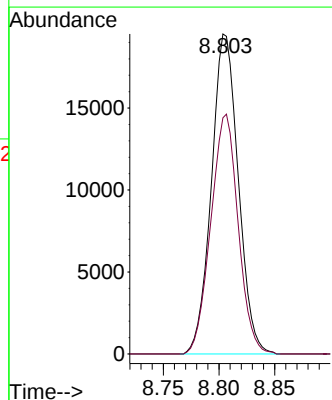
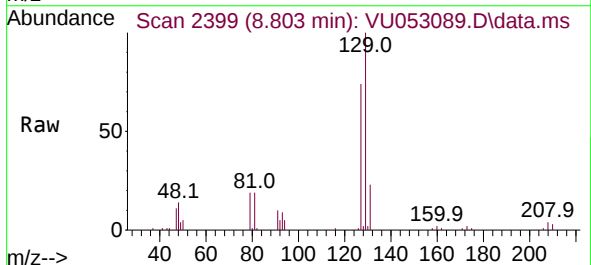
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

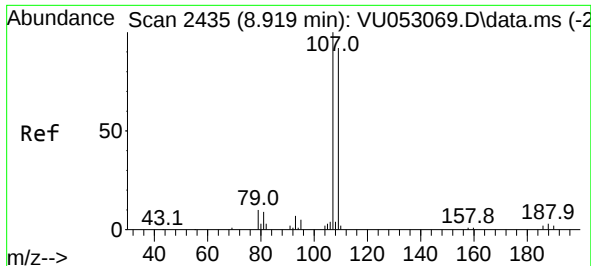
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 157815 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 62.9  | 50.3  | 75.5   |
| 57       | 21.3  | 17.4  | 26.0   |
| 100      | 13.3  | 10.2  | 15.2   |



#49  
Dibromochloromethane  
Concen: 5.160 ug/L  
RT: 8.803 min Scan# 2399  
Delta R.T. -0.003 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 32745 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 73.8  | 54.9  | 102.1 |

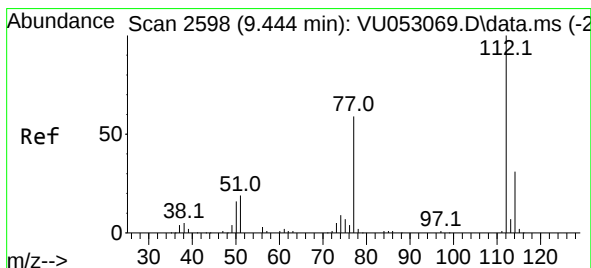
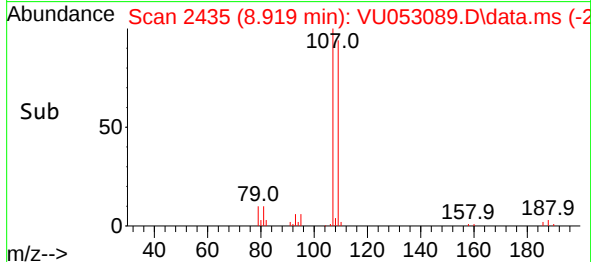
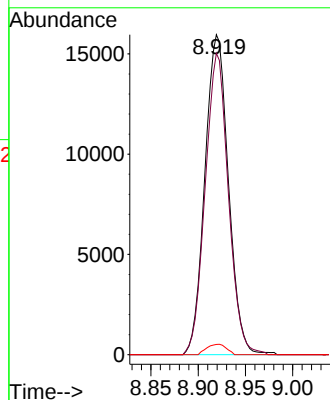
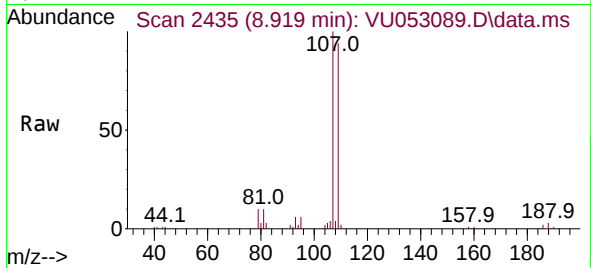




#50  
1,2-Dibromoethane  
Concen: 5.153 ug/L  
RT: 8.919 min Scan# 2435  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

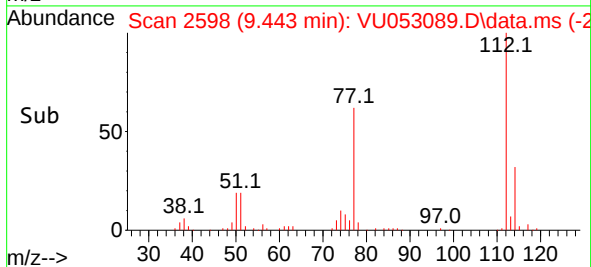
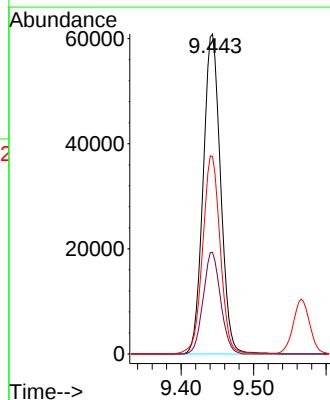
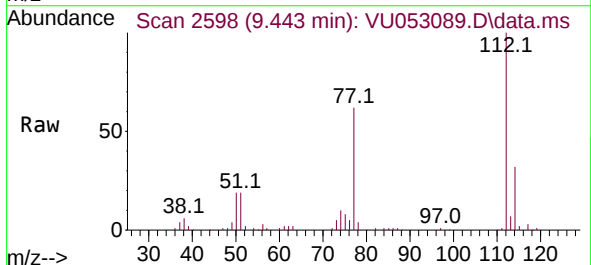
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

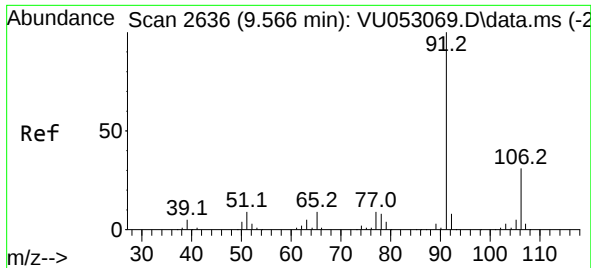
Tgt Ion:107 Resp: 27675  
Ion Ratio Lower Upper  
107 100  
109 94.2 63.1 117.1  
188 3.2 2.5 3.7



#51  
Chlorobenzene  
Concen: 5.049 ug/L  
RT: 9.443 min Scan# 2598  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion:112 Resp: 101514  
Ion Ratio Lower Upper  
112 100  
114 31.7 22.3 41.3  
77 61.8 48.9 73.3

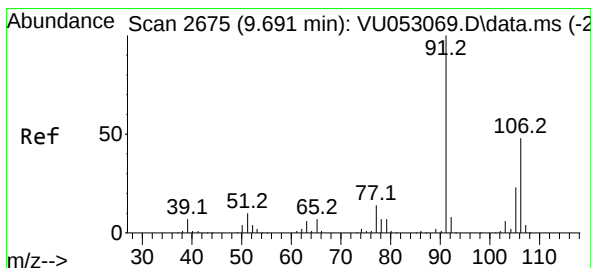
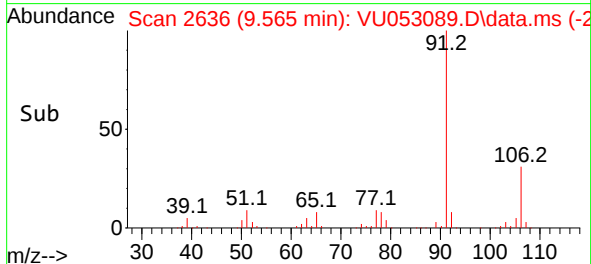
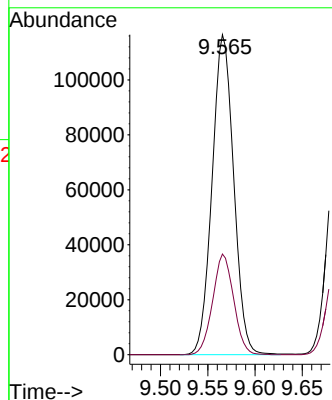
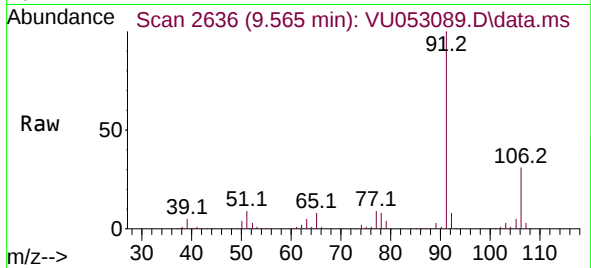




#52  
Ethylbenzene  
Concen: 5.055 ug/L  
RT: 9.565 min Scan# 2636  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

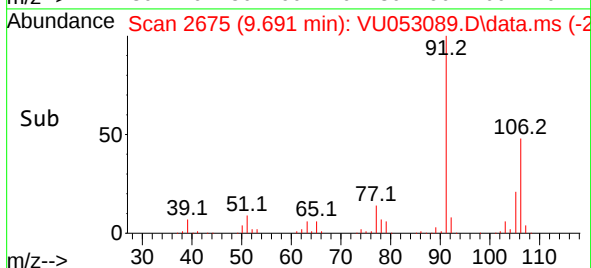
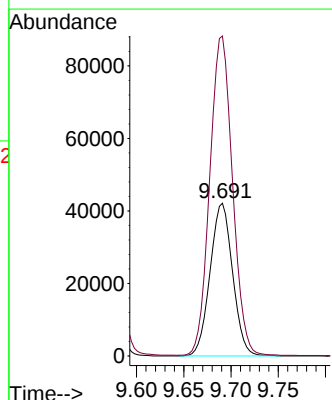
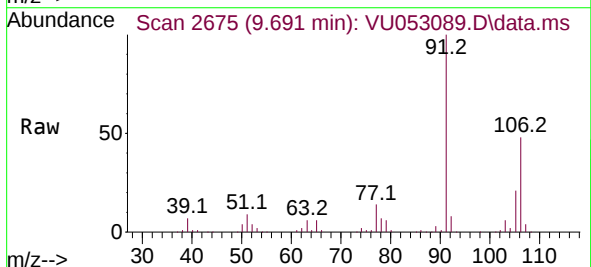
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

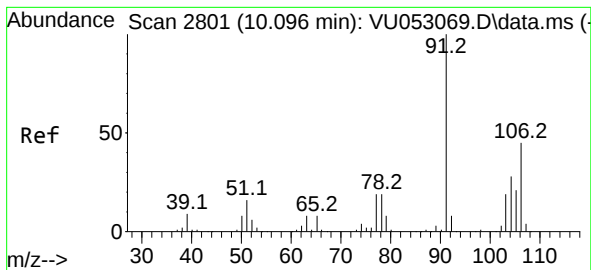
Tgt Ion: 91 Resp: 184888  
Ion Ratio Lower Upper  
91 100  
106 31.5 21.4 39.8



#53  
m,p-Xylene  
Concen: 5.102 ug/L  
RT: 9.691 min Scan# 2675  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion: 106 Resp: 69774  
Ion Ratio Lower Upper  
106 100  
91 209.4 149.9 278.3





#54

o-Xylene

Concen: 5.151 ug/L

RT: 10.096 min Scan# 2801

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

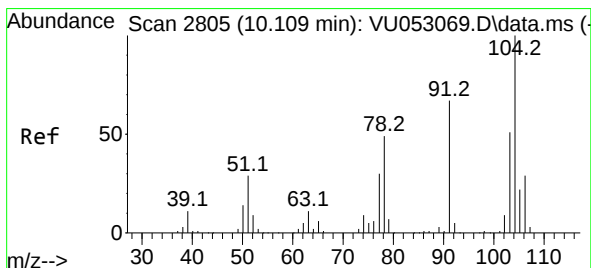
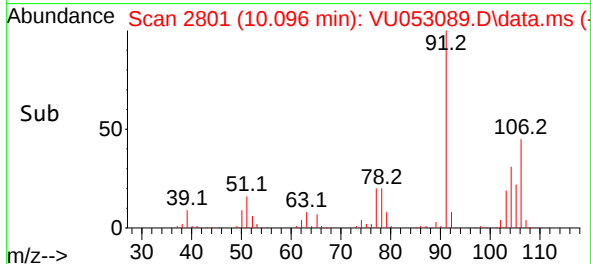
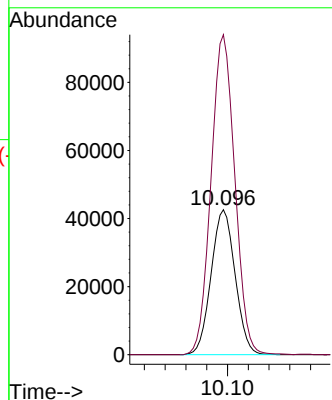
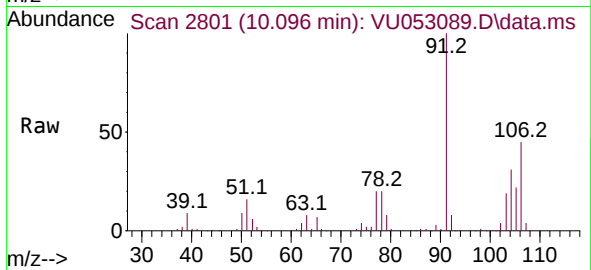
VSTD005140

Tgt Ion:106 Resp: 68282

Ion Ratio Lower Upper

106 100

91 220.8 153.6 285.2



#55

Styrene

Concen: 5.152 ug/L

RT: 10.109 min Scan# 2805

Delta R.T. -0.000 min

Lab File: VU053089.D

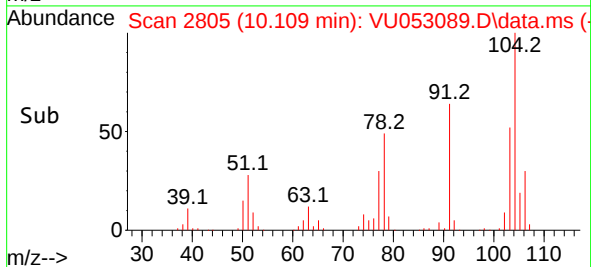
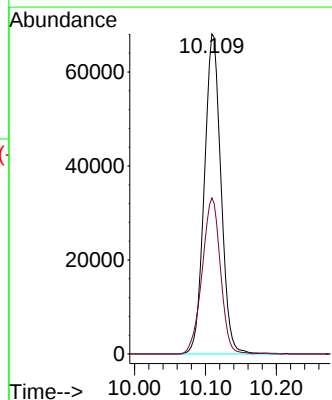
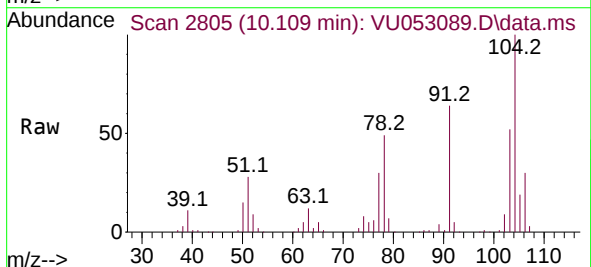
Acq: 13 Feb 2023 18:37

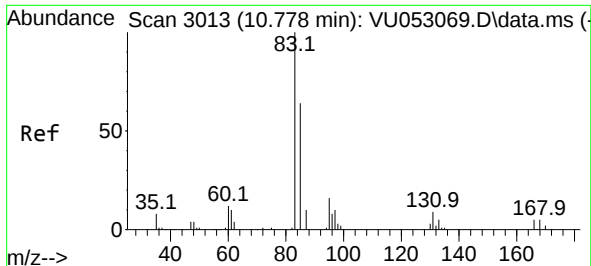
Tgt Ion:104 Resp: 110791

Ion Ratio Lower Upper

104 100

78 48.8 34.3 63.7





#57

1,1,2-Tetrachloroethane

Concen: 5.009 ug/L

RT: 10.778 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005140

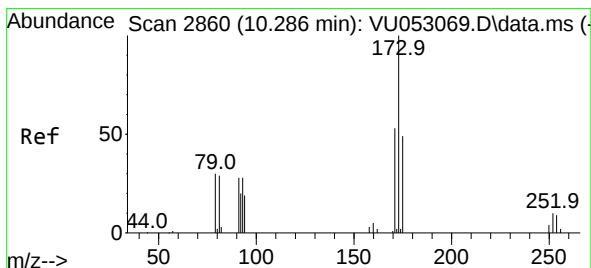
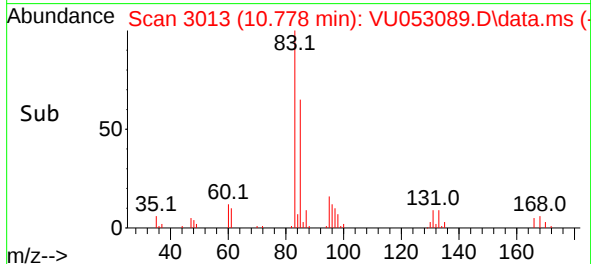
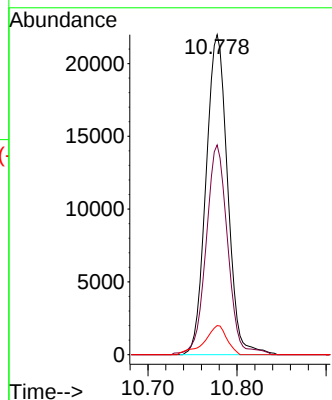
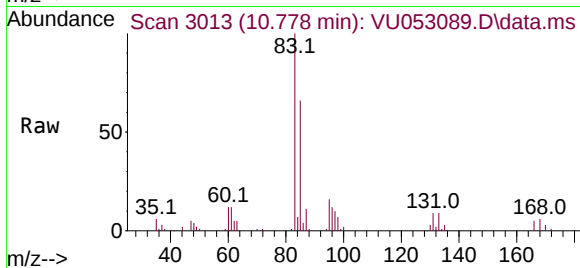
Tgt Ion: 83 Resp: 36890

Ion Ratio Lower Upper

83 100

85 65.6 44.7 82.9

131 9.1 7.8 11.6



#59

Bromoform

Concen: 4.935 ug/L

RT: 10.286 min Scan# 2860

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

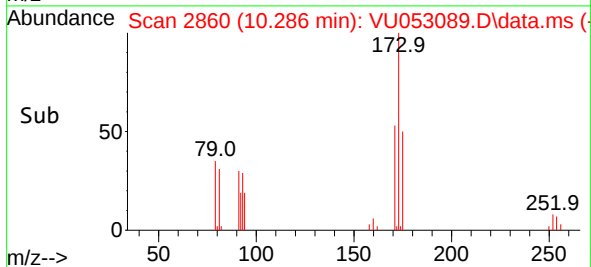
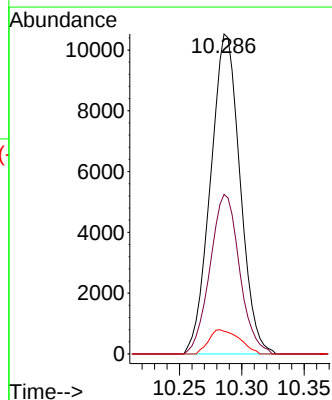
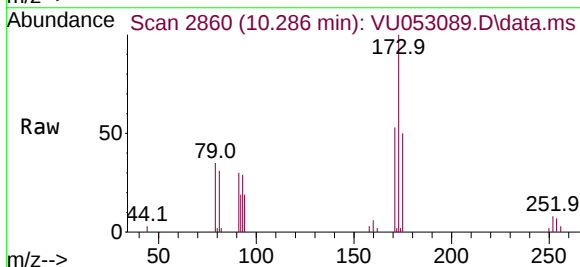
Tgt Ion:173 Resp: 17341

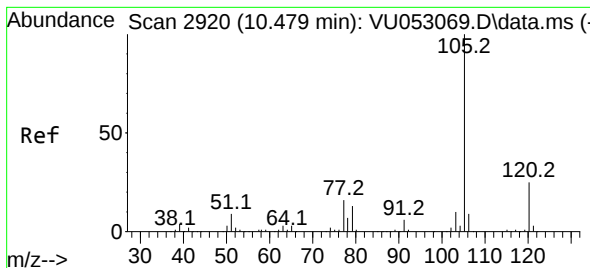
Ion Ratio Lower Upper

173 100

175 49.9 38.9 58.3

254 7.8 7.0 10.4





#60

Isopropylbenzene

Concen: 5.305 ug/L

RT: 10.479 min Scan# 2920

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005140

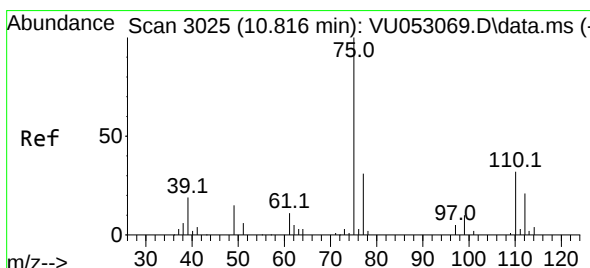
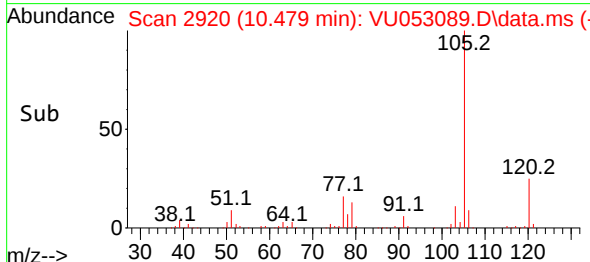
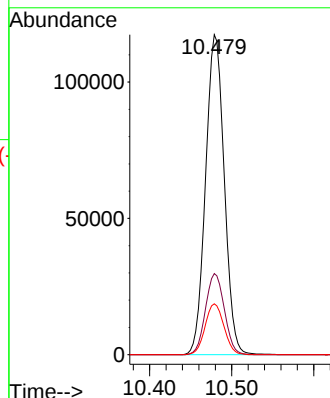
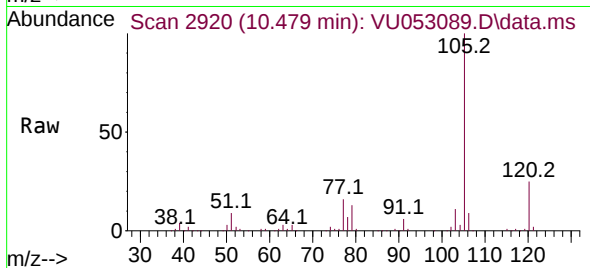
Tgt Ion:105 Resp: 185542

Ion Ratio Lower Upper

105 100

120 25.6 20.6 31.0

77 16.0 13.0 19.6



#61

1,2,3-Trichloropropane

Concen: 5.221 ug/L

RT: 10.819 min Scan# 3026

Delta R.T. 0.003 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

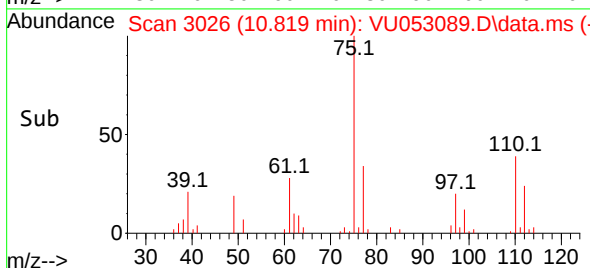
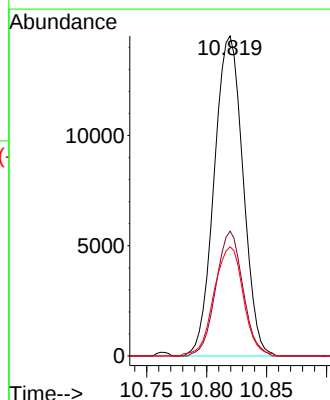
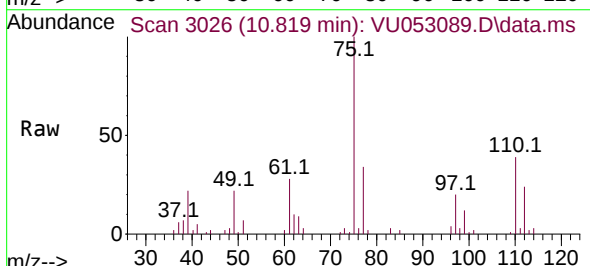
Tgt Ion: 75 Resp: 24233

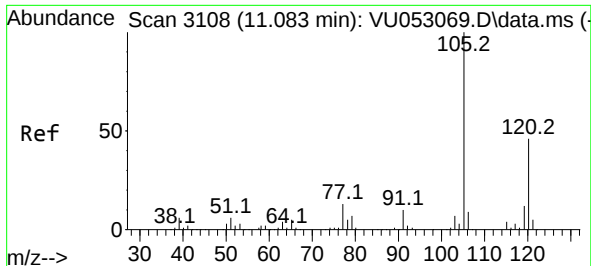
Ion Ratio Lower Upper

75 100

110 36.6 28.6 42.8

77 34.8 27.6 41.4

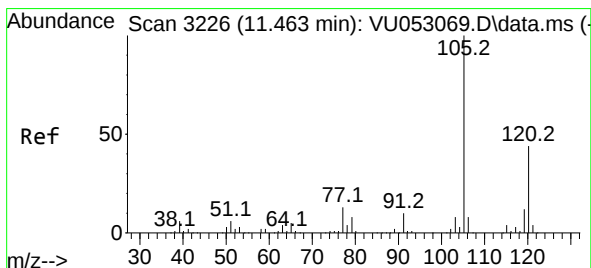
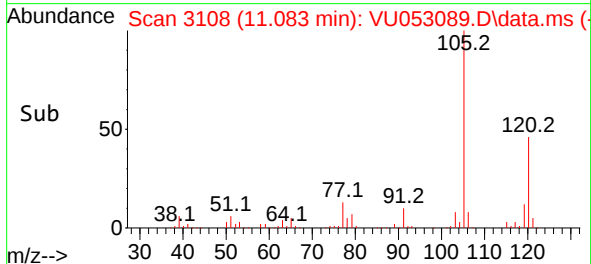
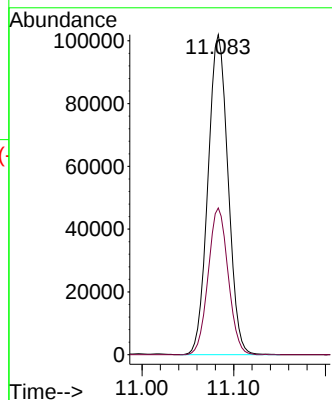
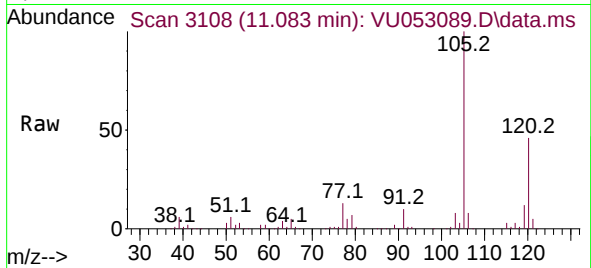




#62  
1,3,5-Trimethylbenzene  
Concen: 5.244 ug/L  
RT: 11.083 min Scan# 3108  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

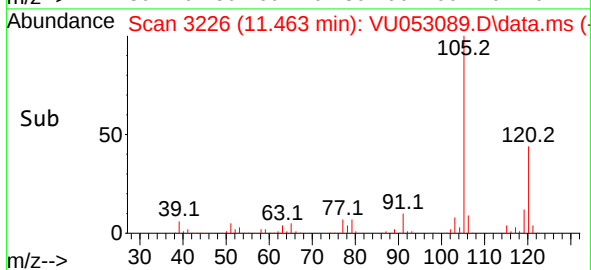
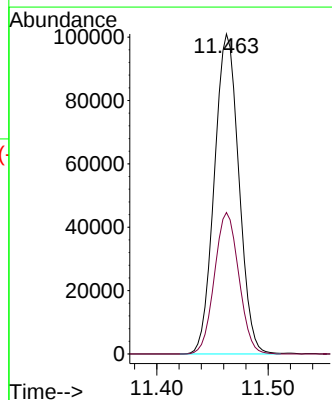
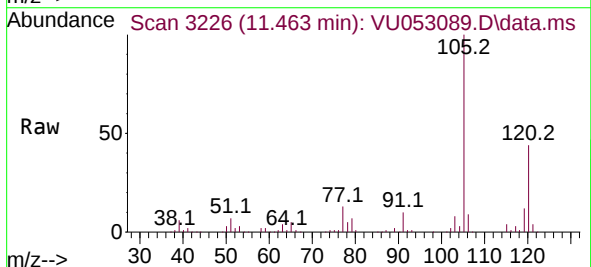
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

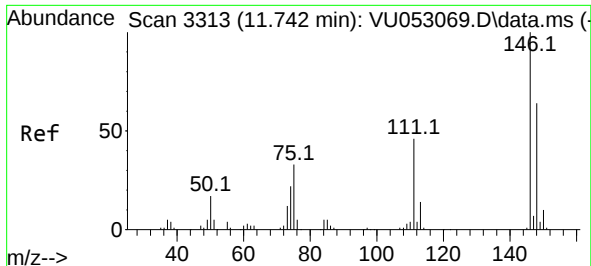
Tgt Ion:105 Resp: 154861  
Ion Ratio Lower Upper  
105 100  
120 45.6 37.0 55.6



#63  
1,2,4-Trimethylbenzene  
Concen: 5.222 ug/L  
RT: 11.463 min Scan# 3226  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion:105 Resp: 154343  
Ion Ratio Lower Upper  
105 100  
120 43.9 34.7 52.1

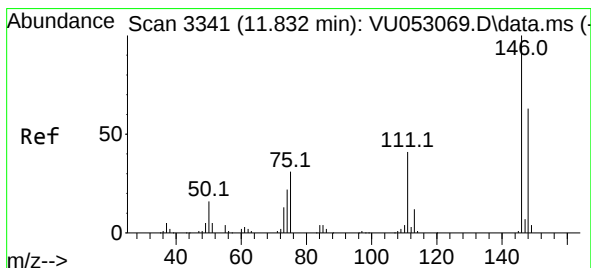
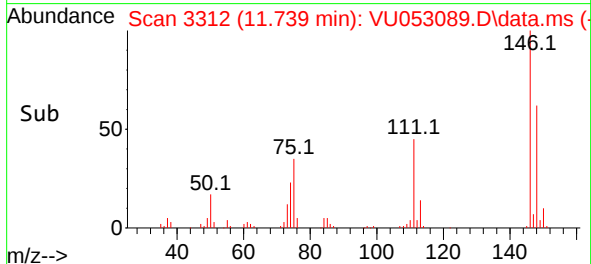
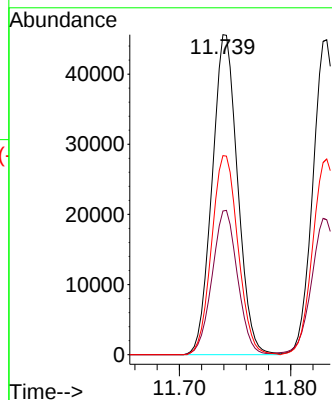
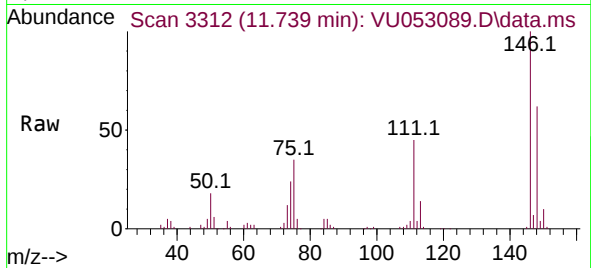




#64  
1,3-Dichlorobenzene  
Concen: 5.129 ug/L  
RT: 11.739 min Scan# 3312  
Delta R.T. -0.003 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

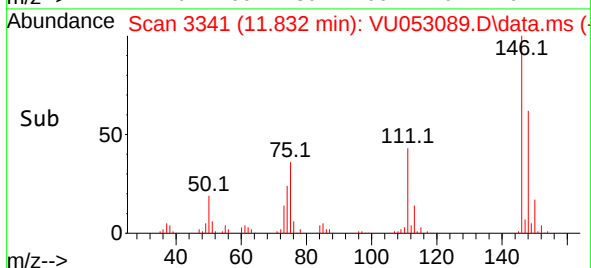
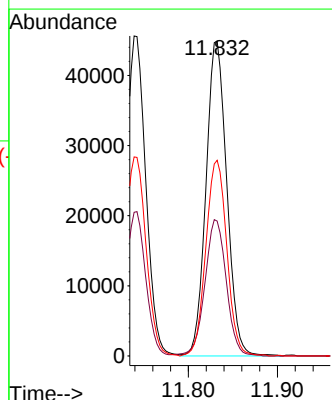
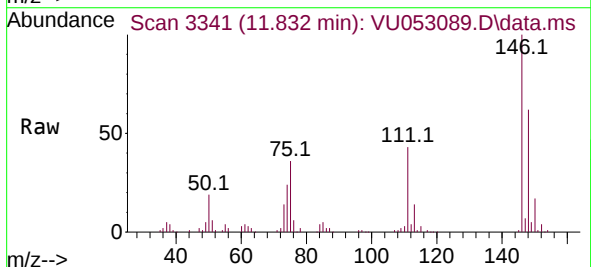
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

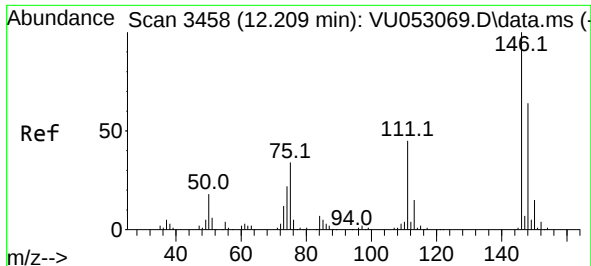
Tgt Ion:146 Resp: 72633  
Ion Ratio Lower Upper  
146 100  
111 44.9 32.0 59.4  
148 62.2 45.3 84.1



#65  
1,4-Dichlorobenzene  
Concen: 5.126 ug/L  
RT: 11.832 min Scan# 3341  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion:146 Resp: 72744  
Ion Ratio Lower Upper  
146 100  
111 42.8 30.3 56.3  
148 62.1 44.7 82.9





#67

1,2-Dichlorobenzene

Concen: 5.245 ug/L

RT: 12.208 min Scan# 34

Delta R.T. -0.000 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005140

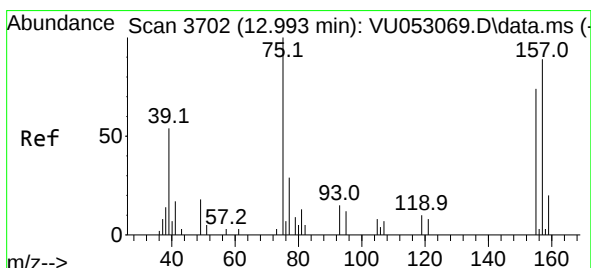
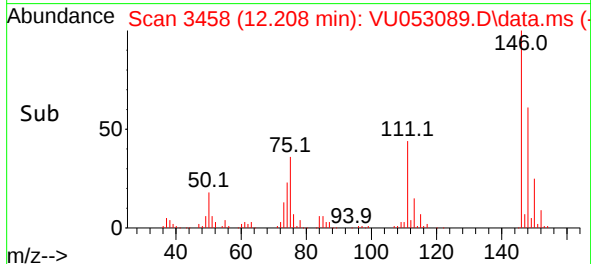
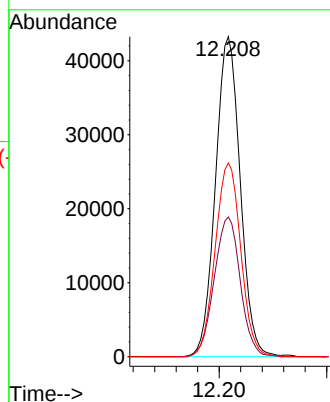
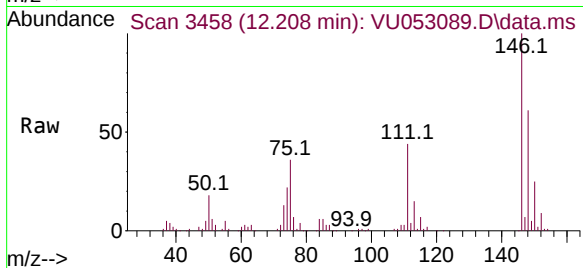
Tgt Ion:146 Resp: 69262

Ion Ratio Lower Upper

146 100

111 43.7 36.3 54.5

148 60.6 51.3 76.9



#68

1,2-Dibromo-3-chloropropane

Concen: 5.618 ug/L

RT: 12.990 min Scan# 3701

Delta R.T. -0.003 min

Lab File: VU053089.D

Acq: 13 Feb 2023 18:37

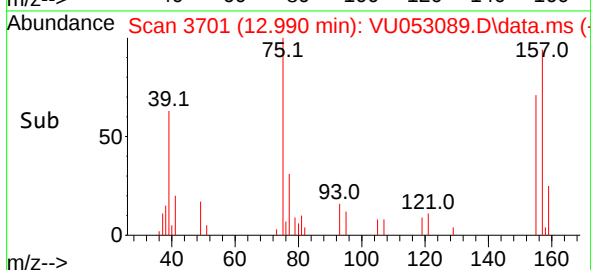
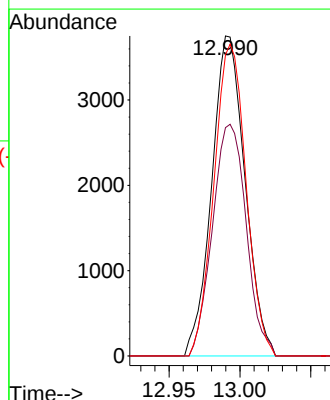
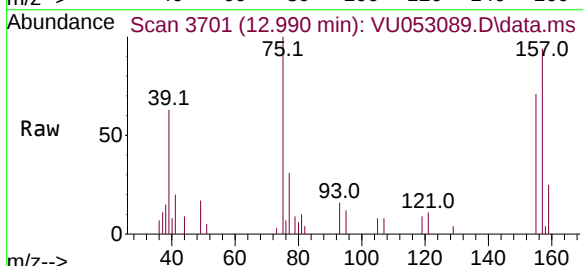
Tgt Ion: 75 Resp: 6129

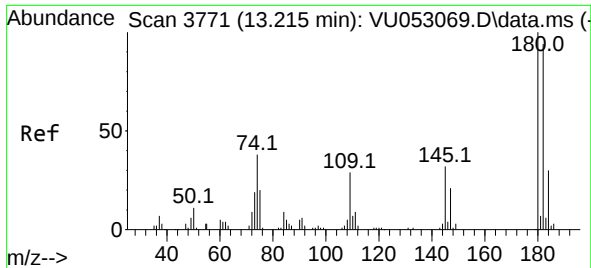
Ion Ratio Lower Upper

75 100

155 71.3 59.8 89.8

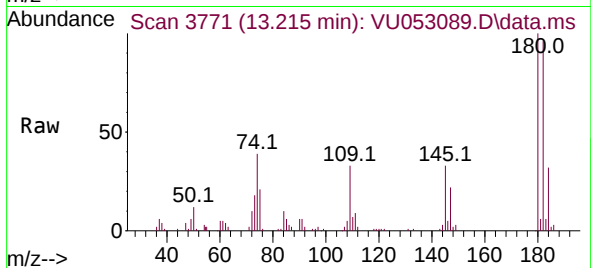
157 94.1 73.2 109.8



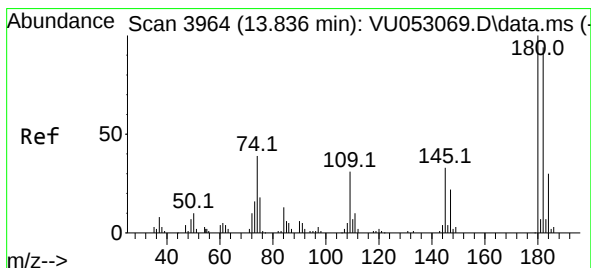
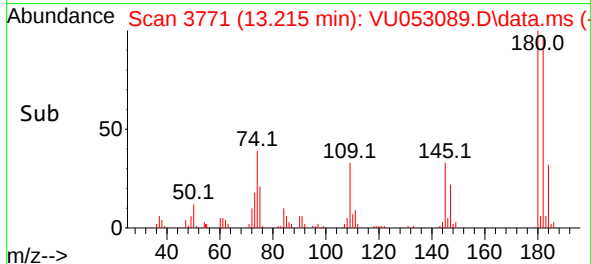
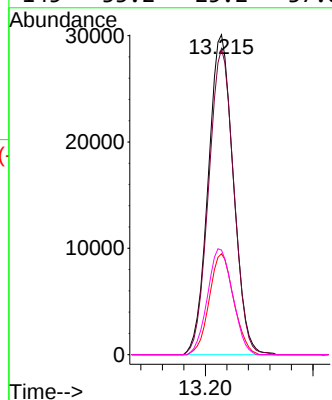


#69  
1,3,5-Trichlorobenzene  
Concen: 4.821 ug/L  
RT: 13.215 min Scan# 3771  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

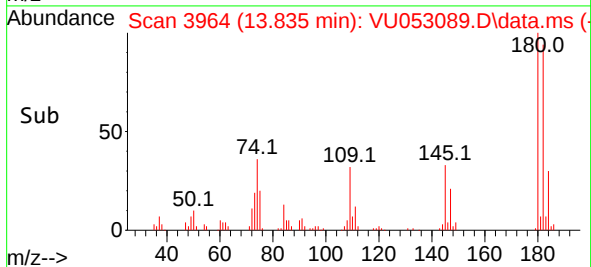
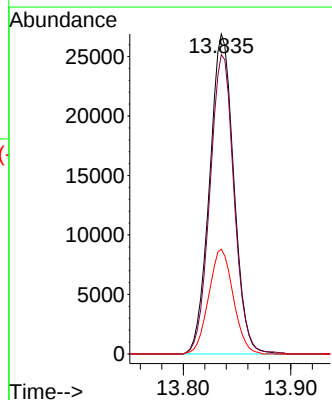
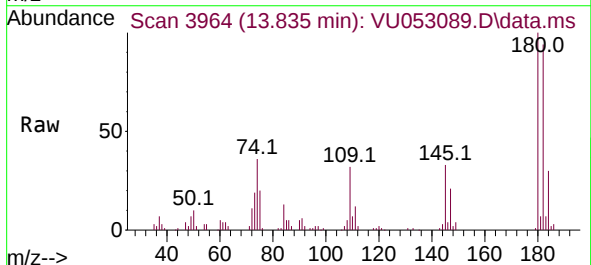


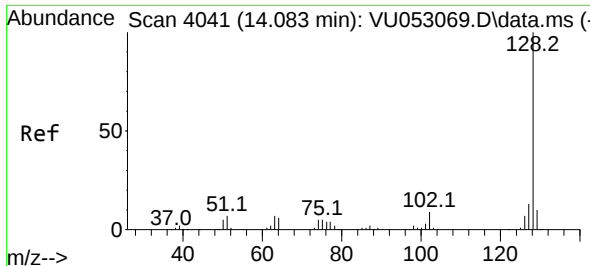
Tgt Ion:180 Resp: 48639  
Ion Ratio Lower Upper  
180 100  
182 95.3 75.4 113.0  
184 30.7 23.8 35.6  
145 33.2 25.2 37.8



#70  
1,2,4-trichlorobenzene  
Concen: 5.020 ug/L  
RT: 13.835 min Scan# 3964  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion:180 Resp: 42040  
Ion Ratio Lower Upper  
180 100  
182 93.3 74.9 112.3  
145 33.3 25.1 37.7

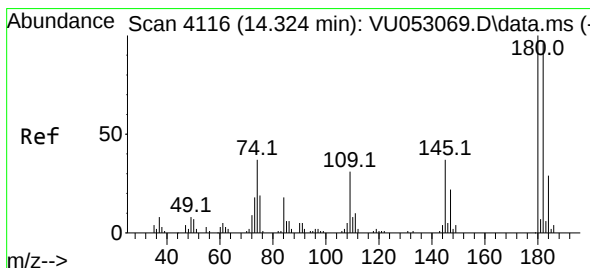
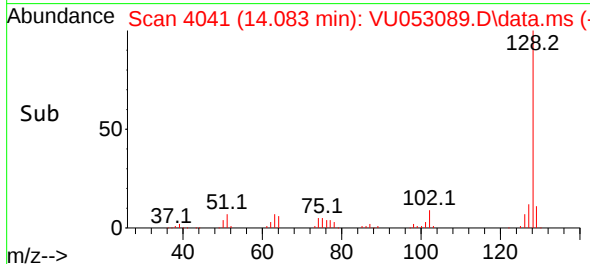
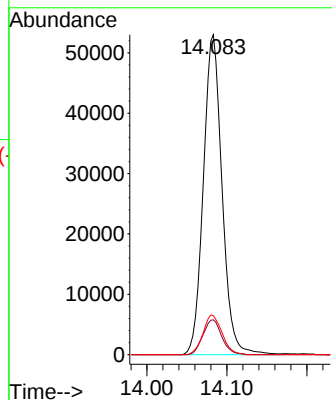
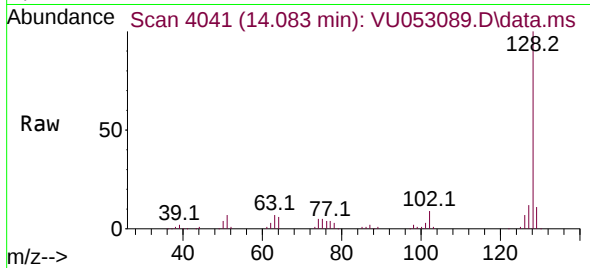




#71  
Naphthalene  
Concen: 5.140 ug/L  
RT: 14.083 min Scan# 4041  
Delta R.T. -0.000 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005140

Tgt Ion:128 Resp: 86339  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.8 13.2  
127 12.6 10.2 15.4



#72  
1,2,3-Trichlorobenzene  
Concen: 5.162 ug/L  
RT: 14.327 min Scan# 4117  
Delta R.T. 0.003 min  
Lab File: VU053089.D  
Acq: 13 Feb 2023 18:37

Tgt Ion:180 Resp: 38155  
Ion Ratio Lower Upper  
180 100  
182 95.1 76.2 114.4  
145 34.6 28.2 42.2

