

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU120821\  
 Data File : VU046189.D  
 Acq On : 08 Dec 2021 20:44  
 Operator : SY/MD  
 Sample : M4971-03  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 09 03:21:49 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 03 05:08:36 2021  
 Response via : Initial Calibration

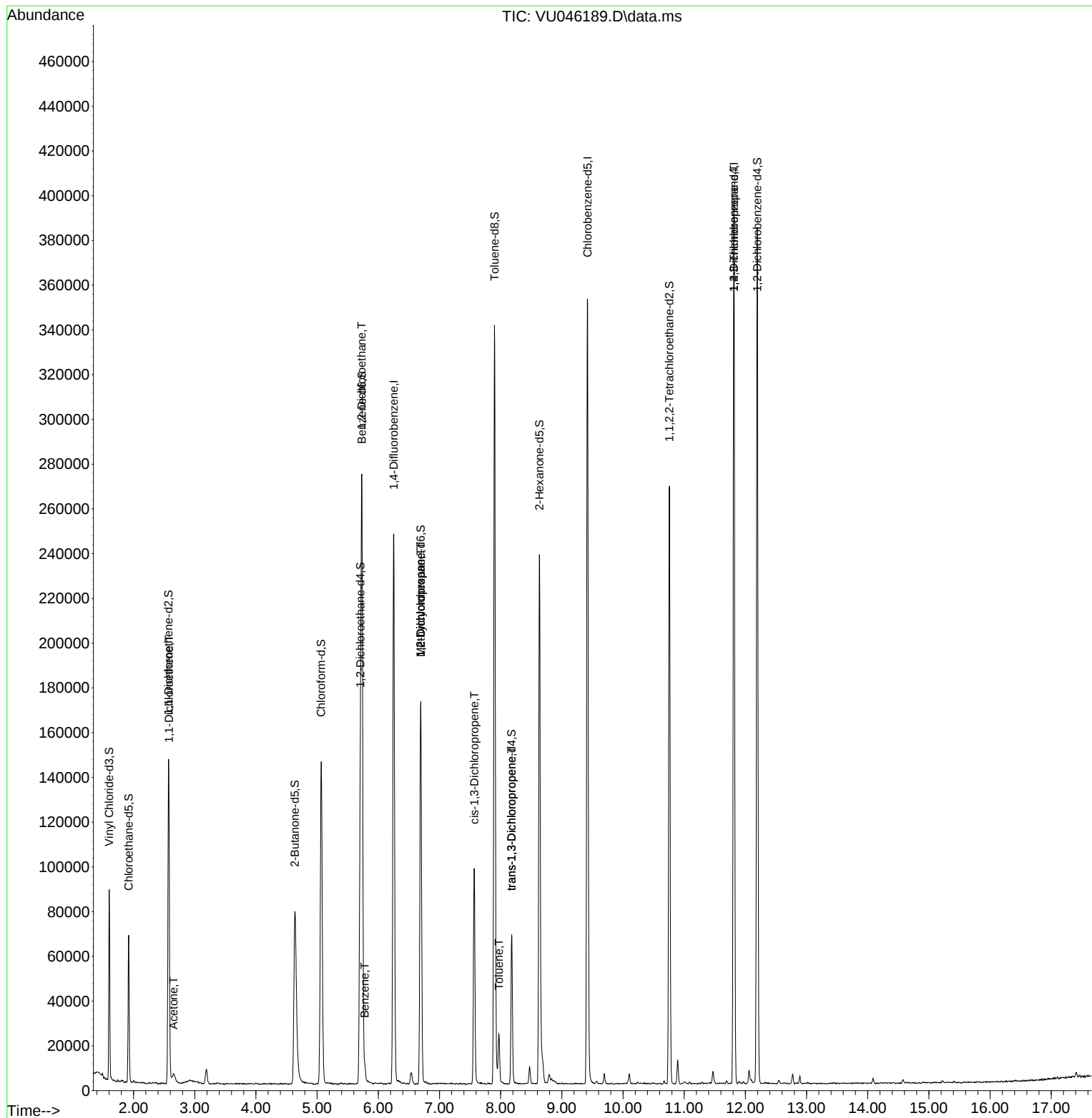
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253          | 114  | 209203     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420          | 117  | 205126     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812         | 152  | 109274     | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601          | 65   | 60221      | 34.945   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 69.900%  |        |          |
| 7) Chloroethane-d5            | 1.919          | 69   | 46861      | 35.416   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 70.840%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.572          | 63   | 86597      | 27.992   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 55.980%# |        |          |
| 21) 2-Butanone-d5             | 4.636          | 46   | 129664     | 94.649   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 94.650%  |        |          |
| 24) Chloroform-d              | 5.067          | 84   | 126064     | 43.805   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 87.620%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.706          | 65   | 84327      | 43.662   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 87.320%  |        |          |
| 32) Benzene-d6                | 5.732          | 84   | 259178     | 44.083   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 88.160%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.694          | 67   | 82043      | 45.027   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 90.060%  |        |          |
| 41) Toluene-d8                | 7.899          | 98   | 234219     | 43.754   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 87.500%  |        |          |
| 43) trans-1,3-Dichloroprop... | 8.179          | 79   | 39297      | 44.677   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 89.360%  |        |          |
| 47) 2-Hexanone-d5             | 8.632          | 63   | 88616      | 102.574  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 102.570% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758         | 84   | 130328     | 47.164   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 94.320%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.195         | 152  | 102616     | 48.762   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 97.520%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 12) 1,1-Dichloroethene        | 2.578          | 96   | 647        | 0.447    | ug/L # | 1        |
| 13) Acetone                   | 2.652          | 43   | 5446       | 3.181    | ug/L   | 78       |
| 27) 1,2-Dichloroethane        | 5.729          | 62   | 1250       | 0.545    | ug/L # | 73       |
| 33) Benzene                   | 5.777          | 78   | 6618       | 1.066    | ug/L   | 100      |
| 35) Methylcyclohexane         | 6.694          | 83   | 19934      | 7.860    | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 6.694          | 63   | 8690       | 5.343    | ug/L # | 86       |
| 39) cis-1,3-Dichloropropene   | 7.568          | 75   | 2259       | 0.913    | ug/L # | 74       |
| 42) Toluene                   | 7.973          | 91   | 16185      | 2.430    | ug/L   | 93       |
| 44) trans-1,3-Dichloropropene | 8.179          | 75   | 1635       | 0.673    | ug/L   | 88       |
| 60) 1,2,3-Trichloropropane    | 11.812         | 75   | 12320      | 5.143    | ug/L # | 66       |
| -----                         |                |      |            |          |        |          |

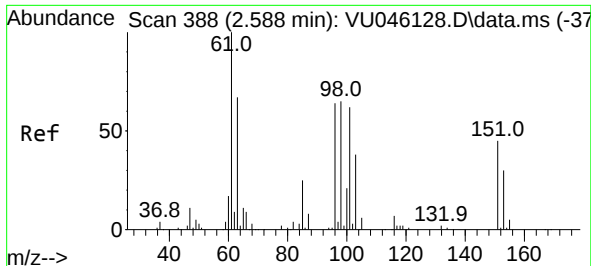
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Dec 09 03:21:49 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 03 05:08:36 2021  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.447 ug/L

RT: 2.578 min Scan# 31

Delta R.T. -0.006 min

Lab File: VU046189.D

Acq: 08 Dec 2021 20:44

Instrument :

MSVOA\_U

ClientSampleId :

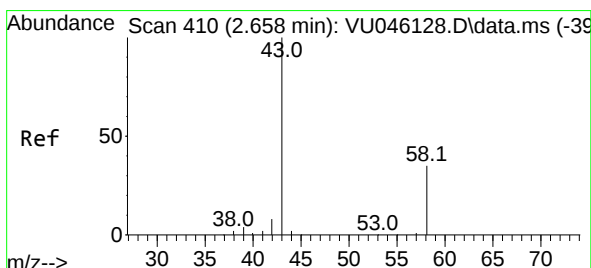
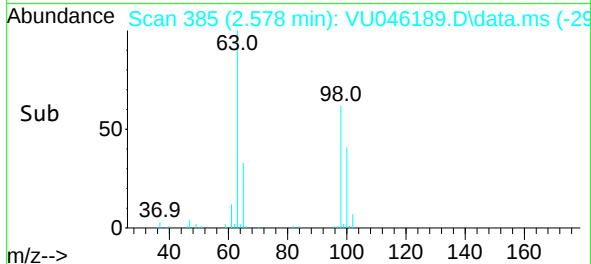
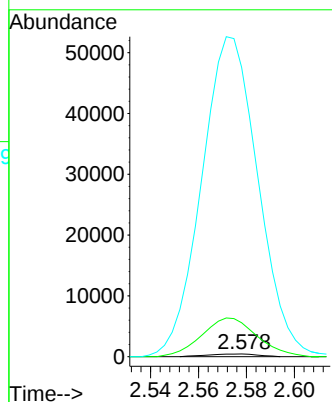
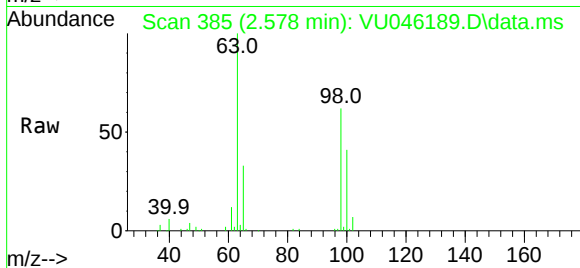
Tgt Ion: 96 Resp: 647

Ion Ratio Lower Upper

96 100

61 1259.5 118.6 220.2#

63 10762.0 93.0 172.8#



#13

Acetone

Concen: 3.181 ug/L

RT: 2.652 min Scan# 408

Delta R.T. -0.010 min

Lab File: VU046189.D

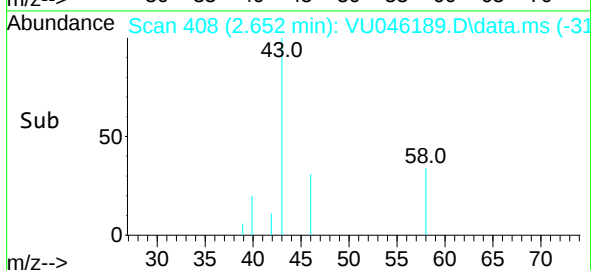
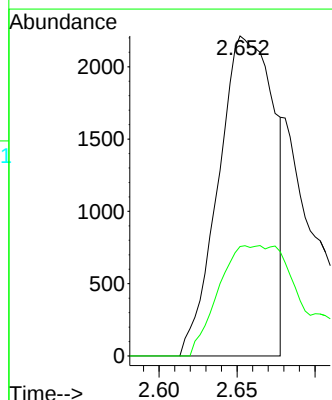
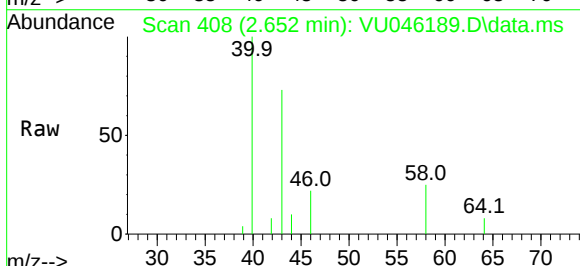
Acq: 08 Dec 2021 20:44

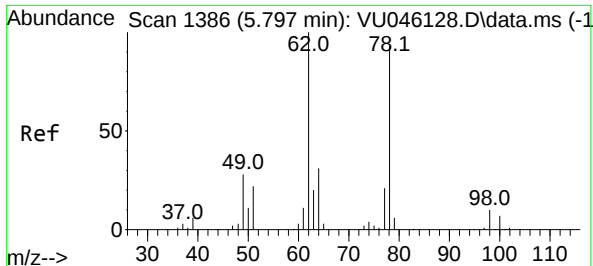
Tgt Ion: 43 Resp: 5446

Ion Ratio Lower Upper

43 100

58 20.7 0.0 66.8





#27

1,2-Dichloroethane

Concen: 0.545 ug/L

RT: 5.729 min Scan# 11

Delta R.T. -0.071 min

Lab File: VU046189.D

Acq: 08 Dec 2021 20:44

Instrument :

MSVOA\_U

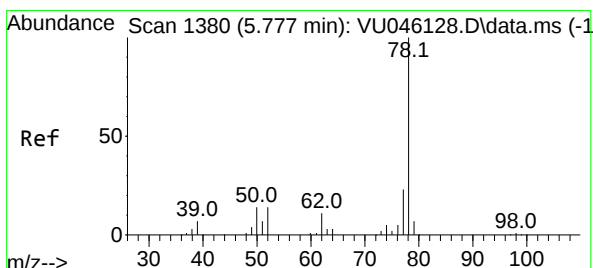
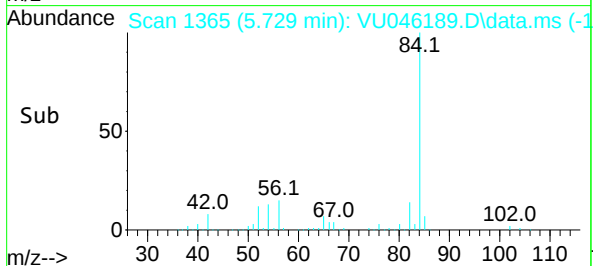
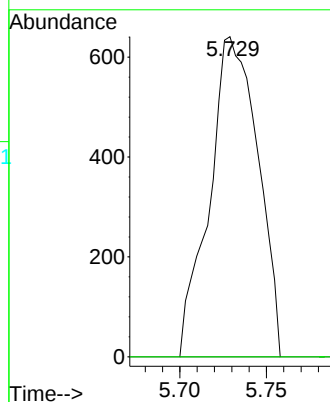
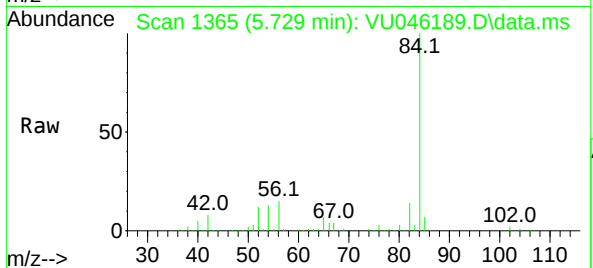
ClientSampleId :

Tgt Ion: 62 Resp: 1250

Ion Ratio Lower Upper

62 100

98 0.0 7.9 11.9#



#33

Benzene

Concen: 1.066 ug/L

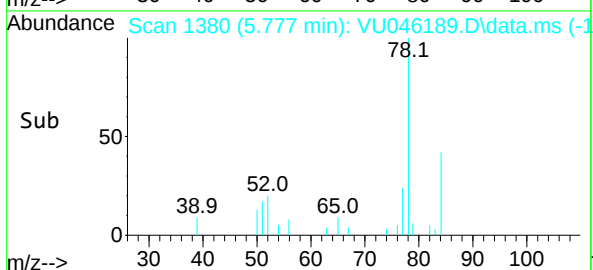
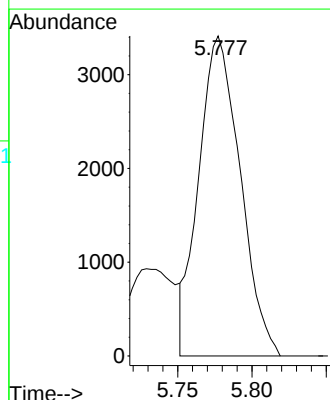
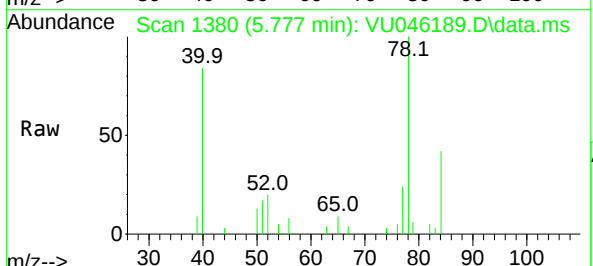
RT: 5.777 min Scan# 1380

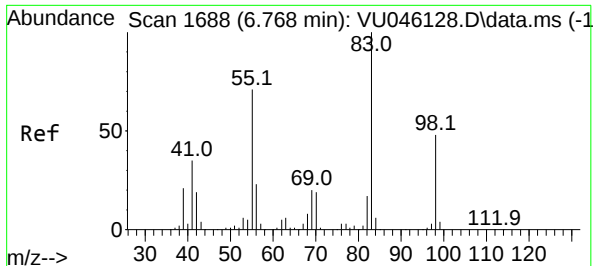
Delta R.T. -0.003 min

Lab File: VU046189.D

Acq: 08 Dec 2021 20:44

Tgt Ion: 78 Resp: 6618

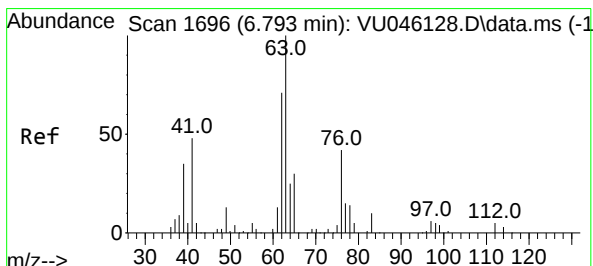
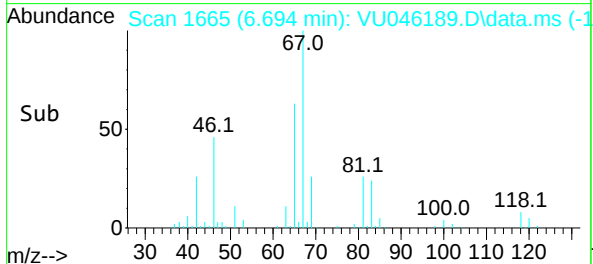
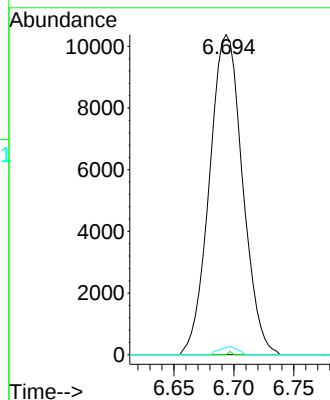
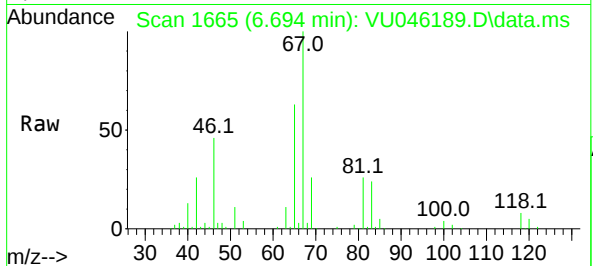




#35  
Methylcyclohexane  
Concen: 7.860 ug/L  
RT: 6.694 min Scan# 1665  
Delta R.T. -0.074 min  
Lab File: VU046189.D  
Acq: 08 Dec 2021 20:44

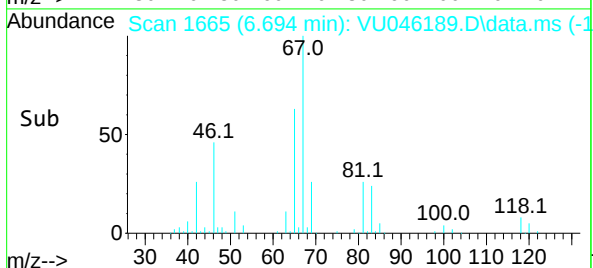
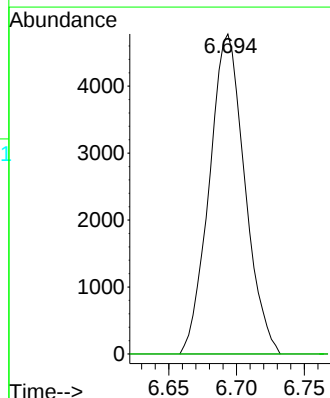
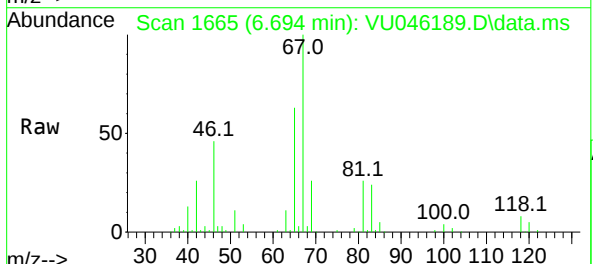
Instrument :  
MSVOA\_U  
ClientSampleId :

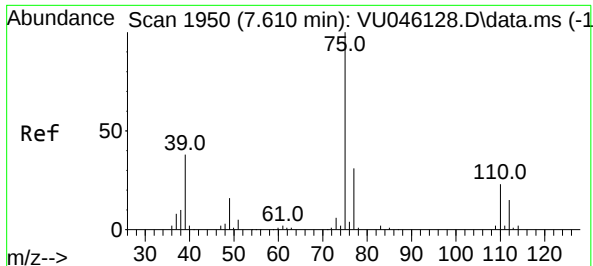
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 0.0   | 57.8  | 86.6# |
| 98      | 1.4   | 38.4  | 57.6# |



#37  
1,2-Dichloropropane  
Concen: 5.343 ug/L  
RT: 6.694 min Scan# 1665  
Delta R.T. -0.100 min  
Lab File: VU046189.D  
Acq: 08 Dec 2021 20:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 112     | 0.0   | 3.8   | 5.6#  |





#39

cis-1,3-Dichloropropene

Concen: 0.913 ug/L

RT: 7.568 min Scan# 1950

Delta R.T. -0.042 min

Lab File: VU046189.D

Acq: 08 Dec 2021 20:44

Instrument :

MSVOA\_U

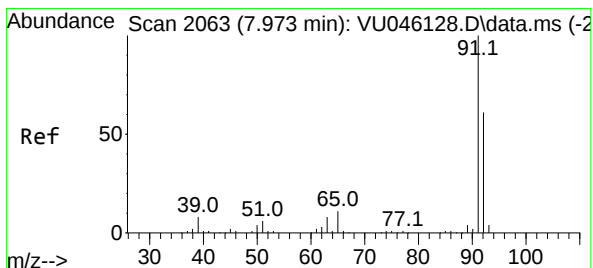
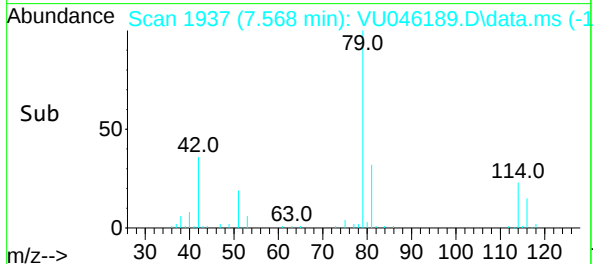
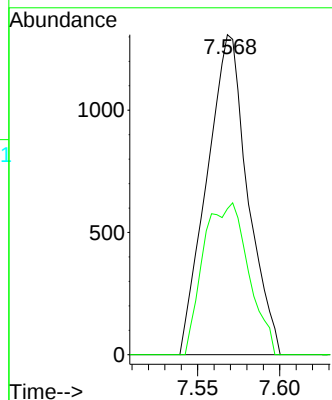
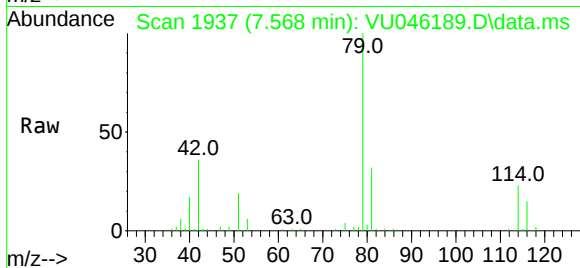
ClientSampleId :

Tgt Ion: 75 Resp: 2259

Ion Ratio Lower Upper

75 100

77 45.6 21.8 40.6#



#42

Toluene

Concen: 2.430 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VU046189.D

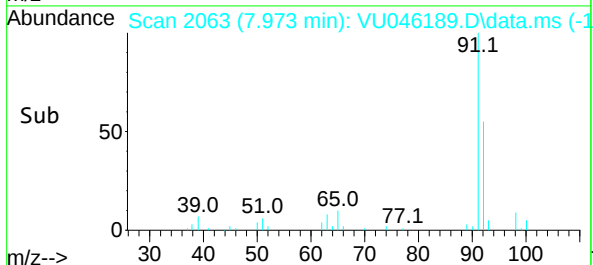
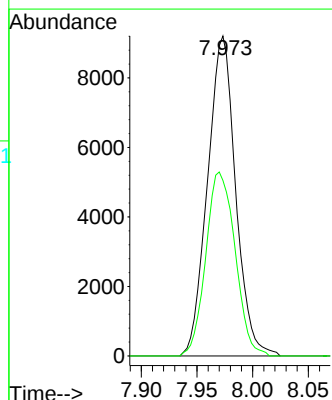
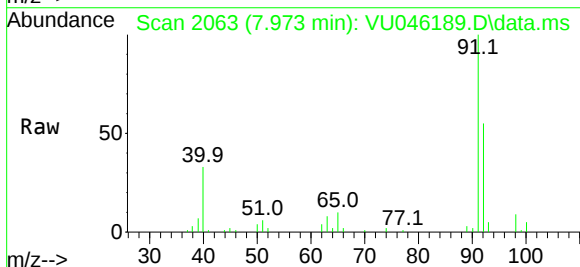
Acq: 08 Dec 2021 20:44

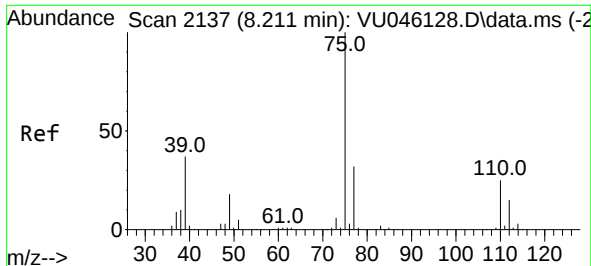
Tgt Ion: 91 Resp: 16185

Ion Ratio Lower Upper

91 100

92 54.9 41.9 77.7

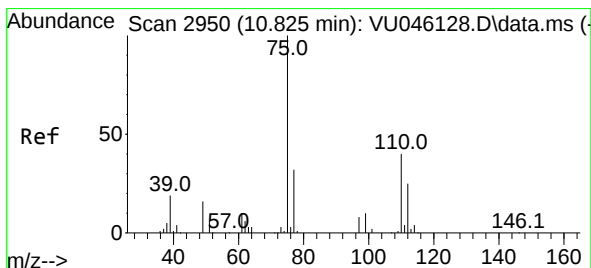
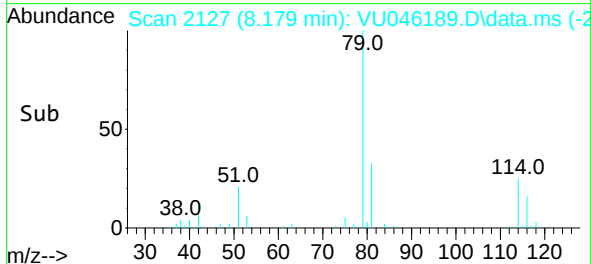
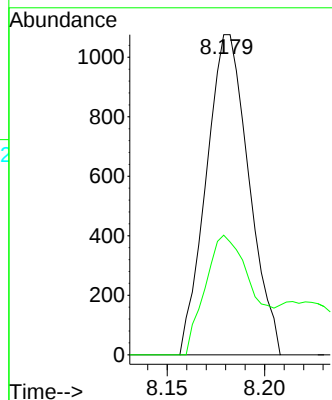
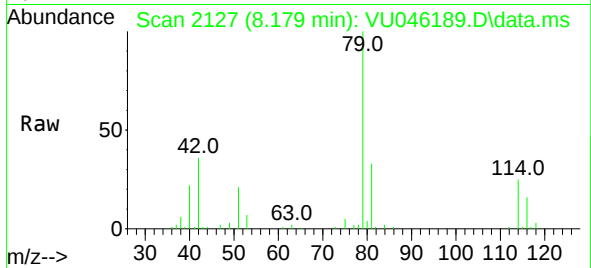




#44  
trans-1,3-Dichloropropene  
Concen: 0.673 ug/L  
RT: 8.179 min Scan# 2137  
Delta R.T. -0.035 min  
Lab File: VU046189.D  
Acq: 08 Dec 2021 20:44

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 75 Resp: 1635  
Ion Ratio Lower Upper  
75 100  
77 37.4 21.7 40.3



#60  
1,2,3-Trichloropropane  
Concen: 5.143 ug/L  
RT: 11.812 min Scan# 3257  
Delta R.T. 0.987 min  
Lab File: VU046189.D  
Acq: 08 Dec 2021 20:44

Tgt Ion: 75 Resp: 12320  
Ion Ratio Lower Upper  
75 100  
77 33.4 26.4 39.6  
110 2.5 32.4 48.6#

