

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121321\  
 Data File : VU046327.D  
 Acq On : 13 Dec 2021 19:43  
 Operator : SY/MD  
 Sample : M4983-20  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5Q5

Quant Time: Dec 14 03:54:04 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Dec 14 03:19:41 2021  
 Response via : Initial Calibration

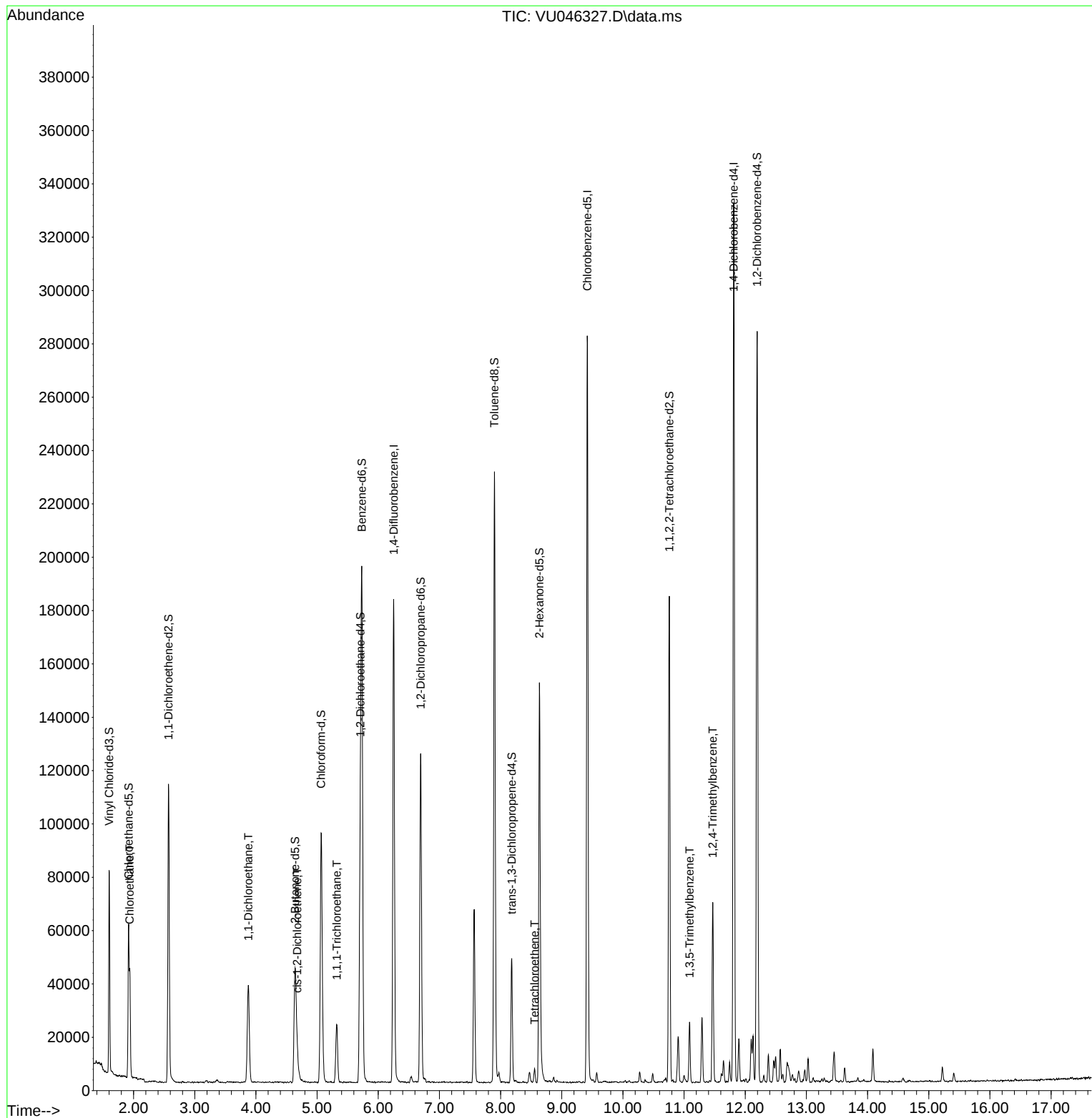
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 147469   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 156119   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 84204    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 52355    | 43.099   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 86.200%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 40089    | 42.982   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 85.960%  |
| 11) 1,1-Dichloroethene-d2     | 2.572   | 63    | 66861    | 30.660   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 61.320%  |
| 21) 2-Butanone-d5             | 4.642   | 46    | 78864    | 81.666   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 81.670%  |
| 24) Chloroform-d              | 5.067   | 84    | 86436    | 42.608   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.220%  |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 62740    | 46.084   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.160%  |
| 32) Benzene-d6                | 5.732   | 84    | 181285   | 40.514   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 81.020%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 57679    | 41.592   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 83.180%  |
| 41) Toluene-d8                | 7.899   | 98    | 151585   | 37.207   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 74.420%# |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 26878    | 40.150   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 80.300%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 54015    | 82.150   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 82.150%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 90588    | 43.074   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 86.140%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 64607    | 39.841   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 79.680%# |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 8) Chloroethane               | 1.938   | 64    | 23959    | 28.598   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.877   | 63    | 42282    | 21.551   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.674   | 96    | 864      | 0.738    | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane     | 5.321   | 97    | 16170    | 8.438    | ug/L   | 98       |
| 46) Tetrachloroethene         | 8.555   | 164   | 1071     | 1.171    | ug/L   | 79       |
| 62) 1,3,5-Trimethylbenzene    | 11.089  | 105   | 12517    | 2.741    | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.468  | 105   | 36952    | 8.088    | ug/L   | 100      |
| -----                         |         |       |          |          |        |          |

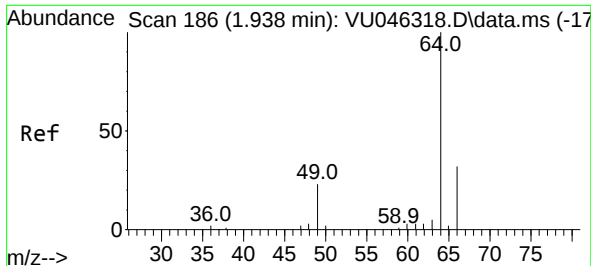
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Dec 14 03:19:41 2021  
Response via : Initial Calibration

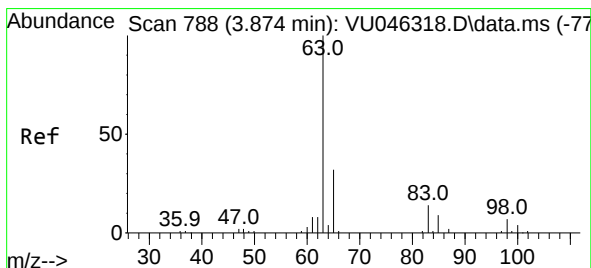
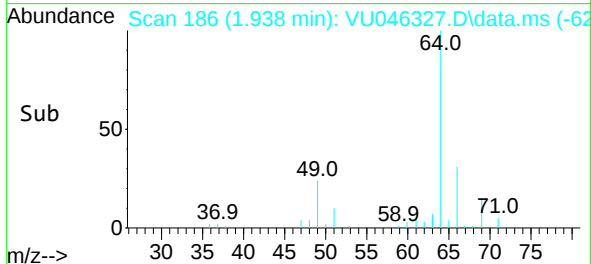
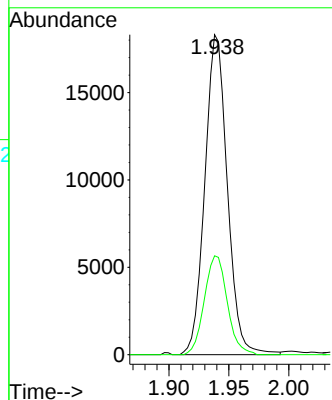
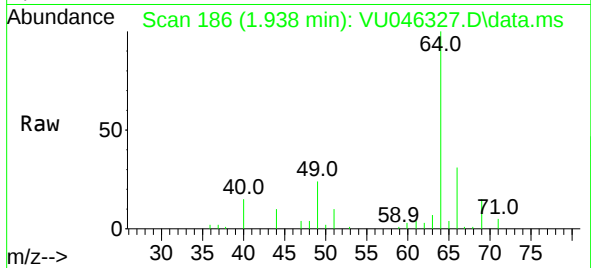




#8  
Chloroethane  
Concen: 28.598 ug/L  
RT: 1.938 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU046327.D  
Acq: 13 Dec 2021 19:43

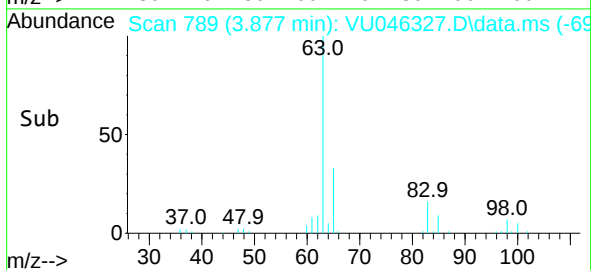
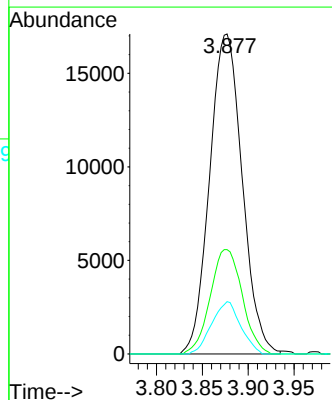
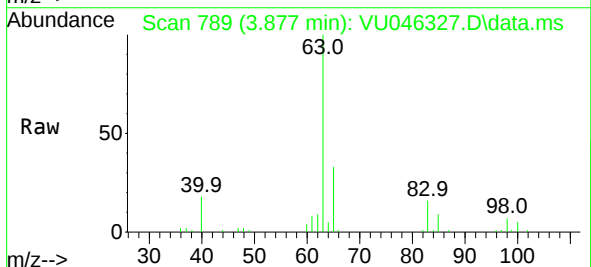
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5Q5

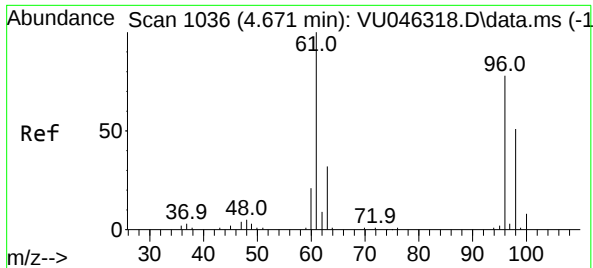
Tgt Ion: 64 Resp: 23959  
Ion Ratio Lower Upper  
64 100  
66 30.9 22.5 41.9



#19  
1,1-Dichloroethane  
Concen: 21.551 ug/L  
RT: 3.877 min Scan# 789  
Delta R.T. 0.003 min  
Lab File: VU046327.D  
Acq: 13 Dec 2021 19:43

Tgt Ion: 63 Resp: 42282  
Ion Ratio Lower Upper  
63 100  
65 32.6 22.8 42.4  
83 16.3 9.6 17.8





#20

cis-1,2-Dichloroethene

Concen: 0.738 ug/L

RT: 4.674 min Scan# 1036

Delta R.T. 0.003 min

Lab File: VU046327.D

Acq: 13 Dec 2021 19:43

Instrument :

MSVOA\_U

ClientSampleId :

EW5Q5

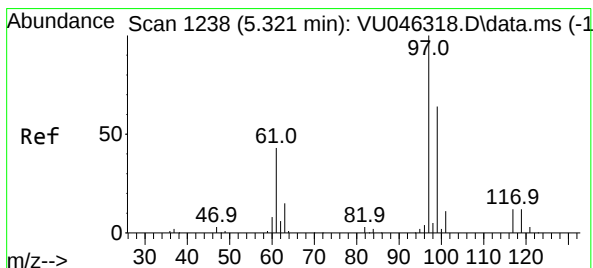
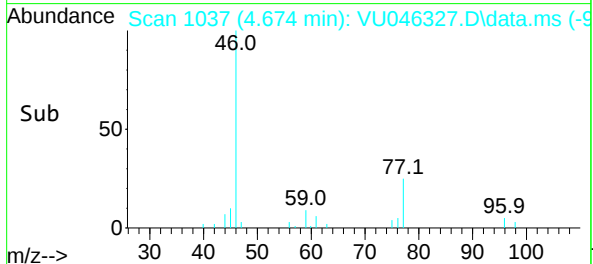
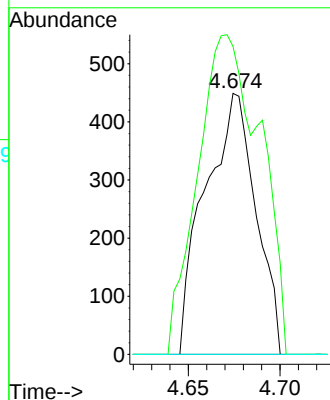
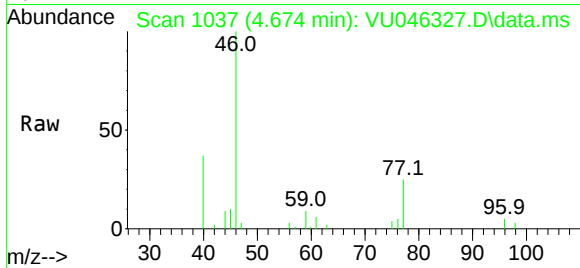
Tgt Ion: 96 Resp: 864

Ion Ratio Lower Upper

96 100

61 118.0 86.8 161.2

68 0.0 0.0 0.0



#30

1,1,1-Trichloroethane

Concen: 8.438 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU046327.D

Acq: 13 Dec 2021 19:43

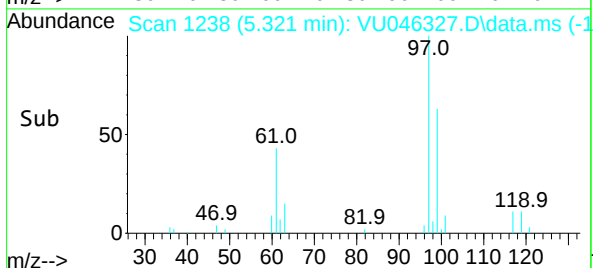
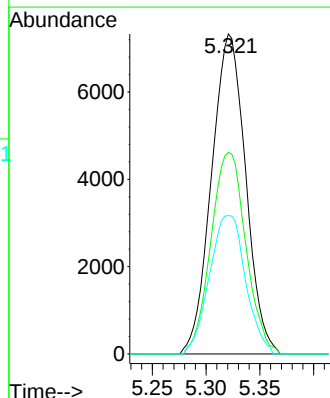
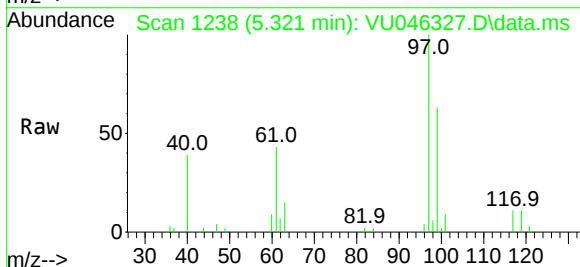
Tgt Ion: 97 Resp: 16170

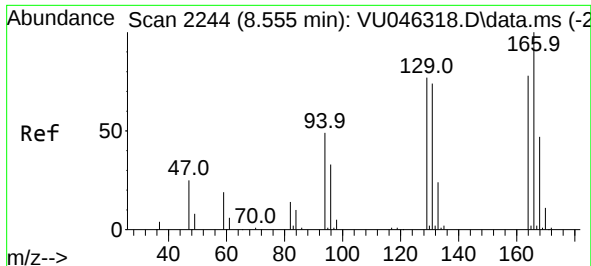
Ion Ratio Lower Upper

97 100

99 64.4 51.8 77.6

61 45.7 34.4 51.6



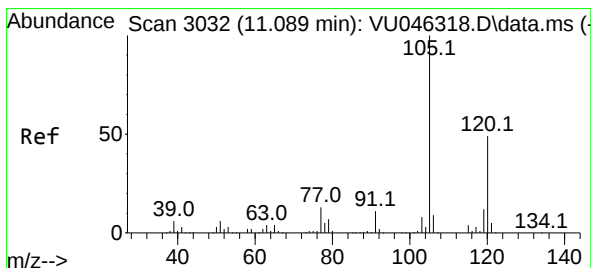
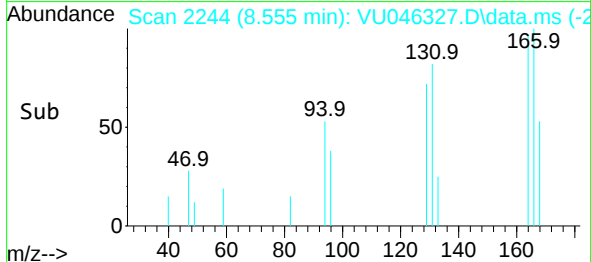
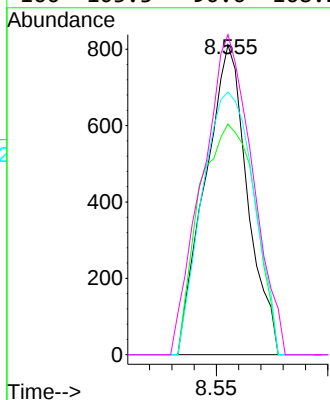
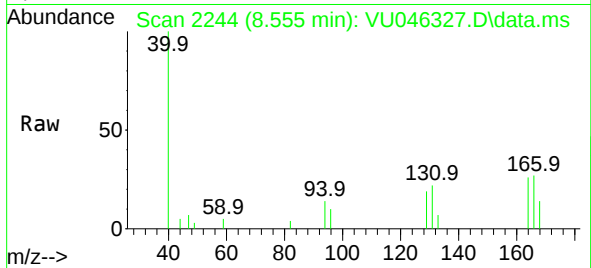


#46  
Tetrachloroethene  
Concen: 1.171 ug/L  
RT: 8.555 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU046327.D  
Acq: 13 Dec 2021 19:43

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5Q5

Tgt Ion:164 Resp: 1071

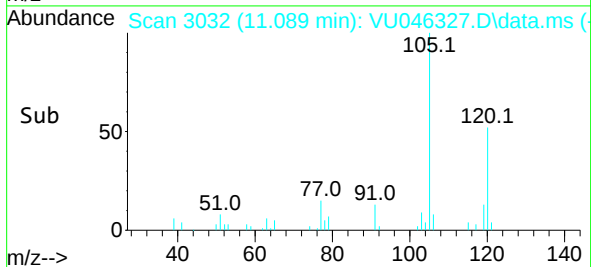
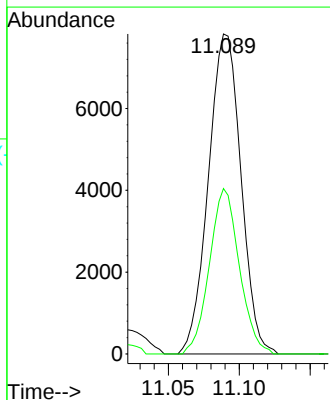
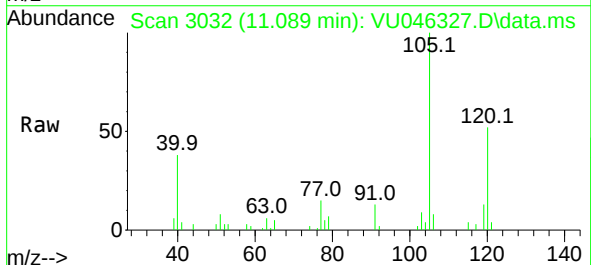
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 74.5  | 71.1  | 132.1 |
| 131 | 84.8  | 67.8  | 126.0 |
| 166 | 103.3 | 90.6  | 168.2 |

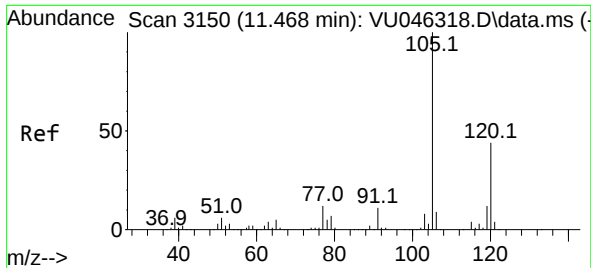


#62  
1,3,5-Trimethylbenzene  
Concen: 2.741 ug/L  
RT: 11.089 min Scan# 3032  
Delta R.T. -0.000 min  
Lab File: VU046327.D  
Acq: 13 Dec 2021 19:43

Tgt Ion:105 Resp: 12517

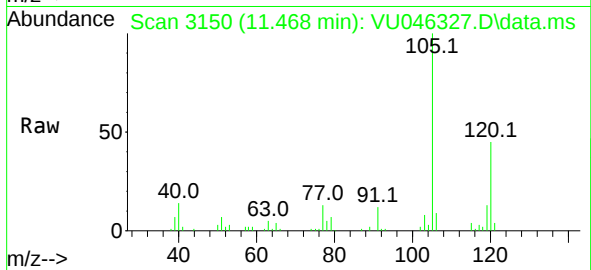
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 47.4  | 37.8  | 56.6  |





#63  
 1,2,4-Trimethylbenzene  
 Concen: 8.088 ug/L  
 RT: 11.468 min Scan# 3150  
 Delta R.T. -0.000 min  
 Lab File: VU046327.D  
 Acq: 13 Dec 2021 19:43

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5Q5



Tgt Ion:105 Resp: 36952  
 Ion Ratio Lower Upper  
 105 100  
 120 44.3 35.2 52.8

