

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121321\  
 Data File : VU046326.D  
 Acq On : 13 Dec 2021 19:20  
 Operator : SY/MD  
 Sample : M4983-17  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5P7

Quant Time: Dec 14 03:53:50 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

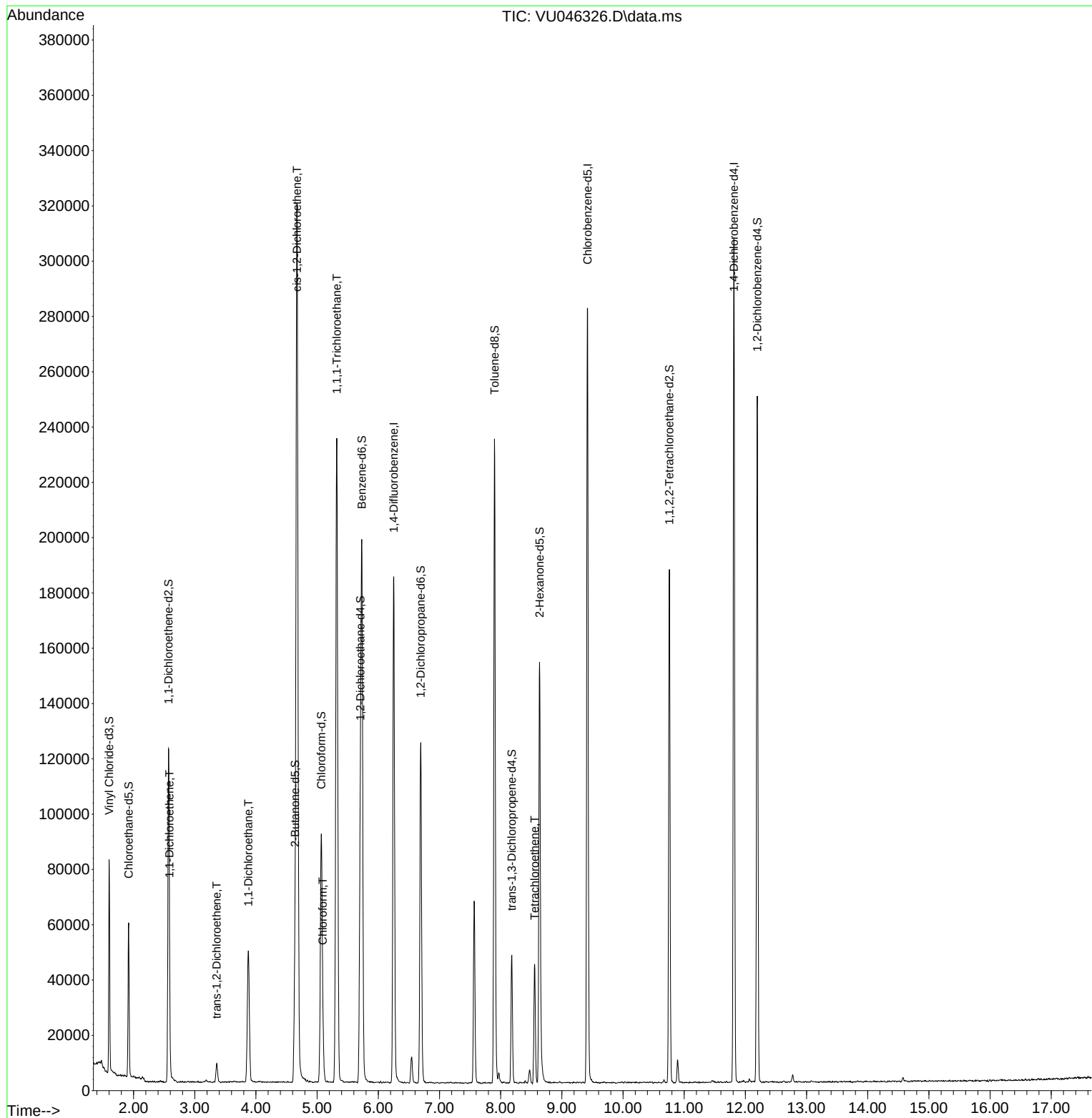
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 149290   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 157582   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 77169    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 52747    | 42.892   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 85.780%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 39655    | 41.998   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 84.000%  |
| 11) 1,1-Dichloroethene-d2     | 2.572   | 63    | 71195    | 32.249   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 64.500%  |
| 21) 2-Butanone-d5             | 4.639   | 46    | 83356    | 85.265   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 85.260%  |
| 24) Chloroform-d              | 5.070   | 84    | 81405    | 39.639   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 79.280%  |
| 26) 1,2-Dichloroethane-d4     | 5.707   | 65    | 62925    | 45.656   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.320%  |
| 32) Benzene-d6                | 5.732   | 84    | 183195   | 40.561   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 81.120%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 58008    | 41.441   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 82.880%  |
| 41) Toluene-d8                | 7.899   | 98    | 153288   | 37.275   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 74.560%# |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 26673    | 39.474   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 78.940%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 55153    | 83.102   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 83.100%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 92060    | 43.367   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 86.740%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 62029    | 41.738   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 83.480%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 12) 1,1-Dichloroethene        | 2.588   | 96    | 6017     | 5.829    | ug/L   | # 1      |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 3061     | 2.802    | ug/L   | 92       |
| 19) 1,1-Dichloroethane        | 3.877   | 63    | 55483    | 27.934   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 160132   | 135.096  | ug/L   | 99       |
| 25) Chloroform                | 5.092   | 83    | 12974    | 5.879    | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 5.321   | 97    | 169150   | 87.446   | ug/L   | 98       |
| 46) Tetrachloroethene         | 8.555   | 164   | 9724     | 10.531   | ug/L   | 92       |
| -----                         |         |       |          |          |        |          |

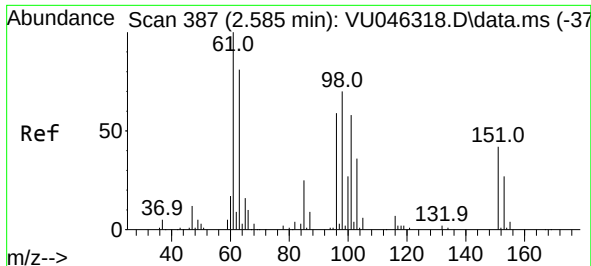
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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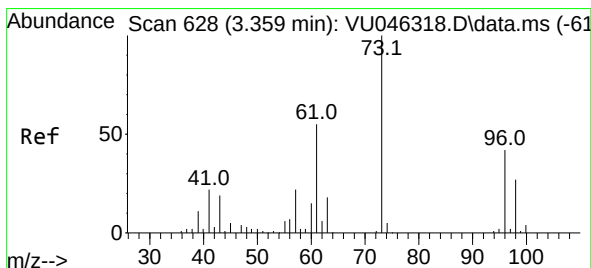
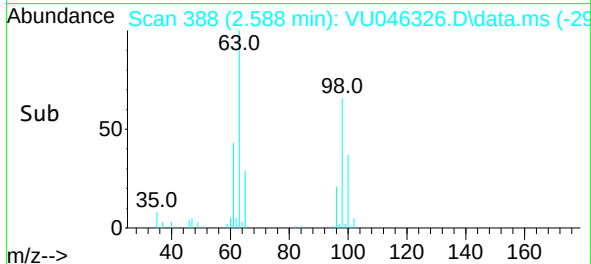
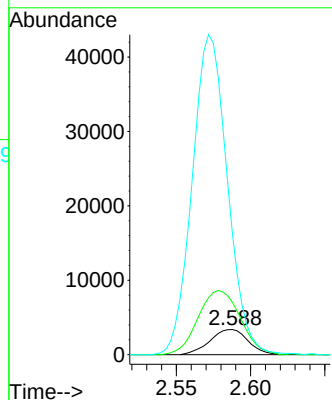
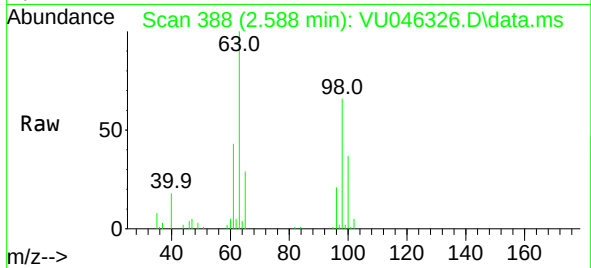




#12  
1,1-Dichloroethene  
Concen: 5.829 ug/L  
RT: 2.588 min Scan# 387  
Delta R.T. 0.003 min  
Lab File: VU046326.D  
Acq: 13 Dec 2021 19:20

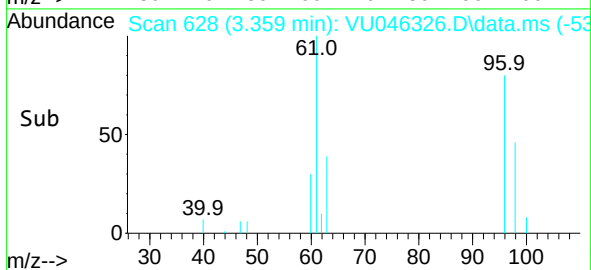
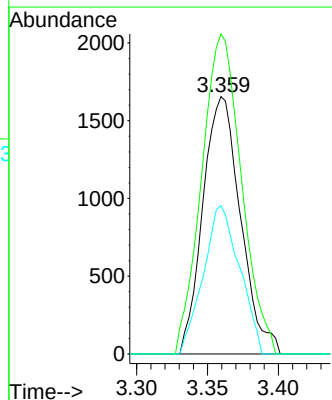
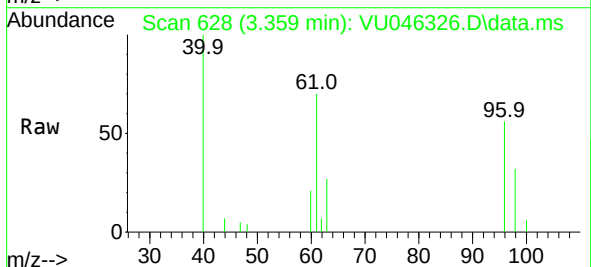
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5P7

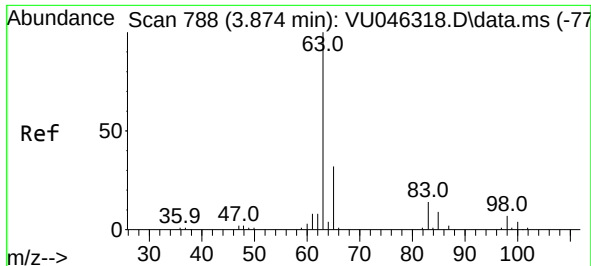
Tgt Ion: 96 Resp: 6017  
Ion Ratio Lower Upper  
96 100  
61 208.7 118.6 220.2  
63 484.5 93.0 172.8#



#17  
trans-1,2-Dichloroethene  
Concen: 2.802 ug/L  
RT: 3.359 min Scan# 628  
Delta R.T. 0.000 min  
Lab File: VU046326.D  
Acq: 13 Dec 2021 19:20

Tgt Ion: 96 Resp: 3061  
Ion Ratio Lower Upper  
96 100  
61 124.3 94.6 175.6  
98 57.5 44.0 81.8





#19

1,1-Dichloroethane

Concen: 27.934 ug/L

RT: 3.877 min Scan# 71

Delta R.T. 0.003 min

Lab File: VU046326.D

Acq: 13 Dec 2021 19:20

Instrument :

MSVOA\_U

ClientSampleId :

EW5P7

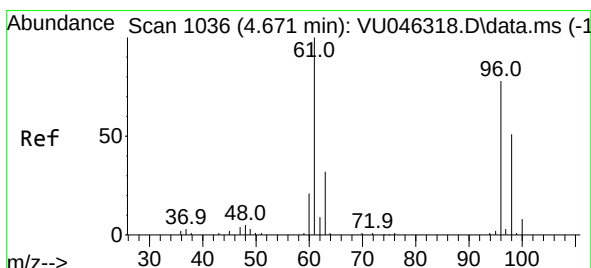
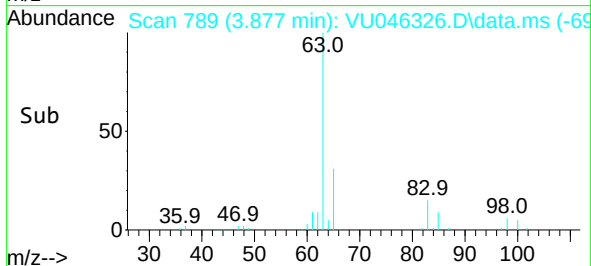
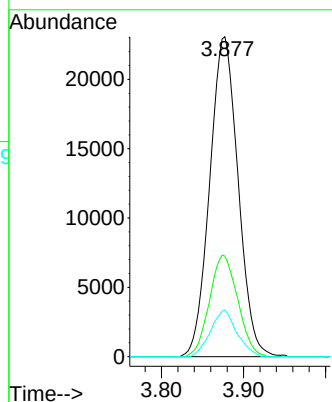
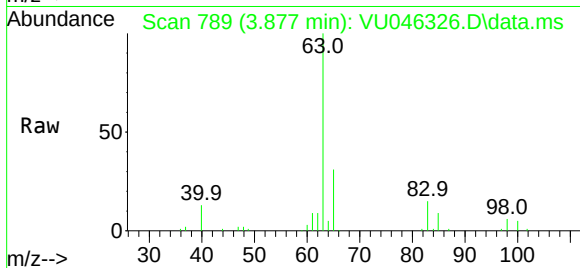
Tgt Ion: 63 Resp: 55483

Ion Ratio Lower Upper

63 100

65 31.5 22.8 42.4

83 14.6 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 135.096 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU046326.D

Acq: 13 Dec 2021 19:20

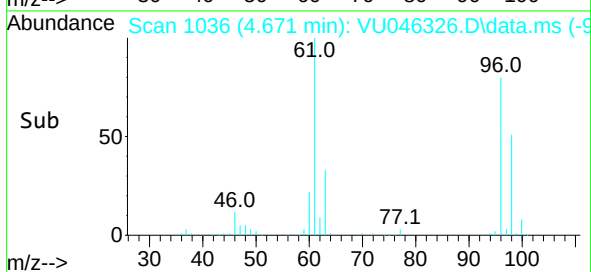
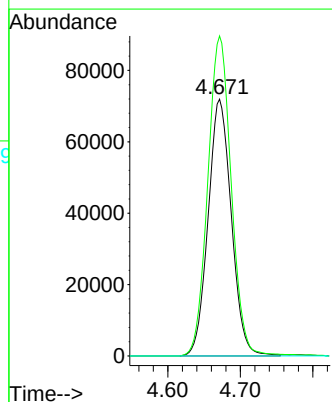
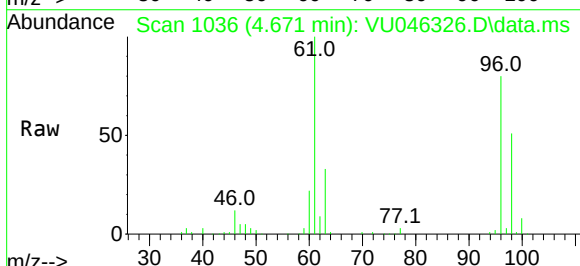
Tgt Ion: 96 Resp: 160132

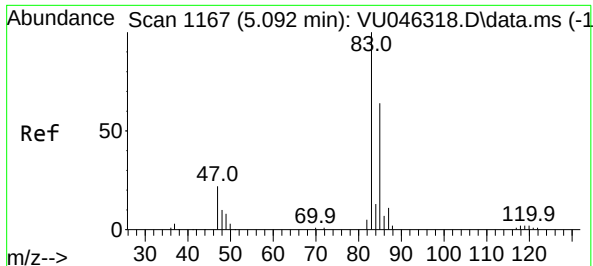
Ion Ratio Lower Upper

96 100

61 124.6 86.8 161.2

68 0.0 0.0 0.0





#25

Chloroform

Concen: 5.879 ug/L

RT: 5.092 min Scan# 1167

Delta R.T. 0.000 min

Lab File: VU046326.D

Acq: 13 Dec 2021 19:20

Instrument :

MSVOA\_U

ClientSampleId :

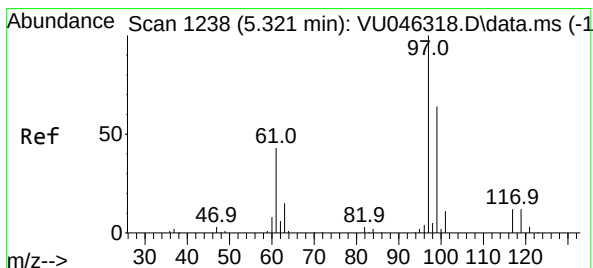
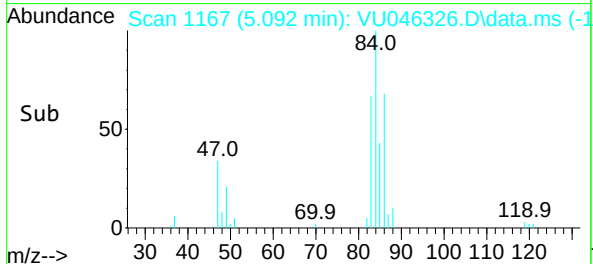
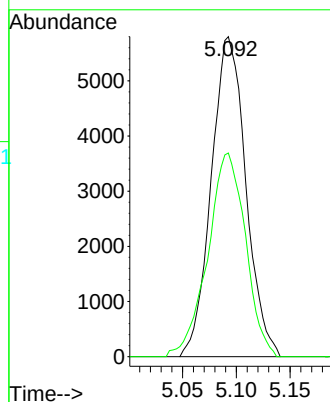
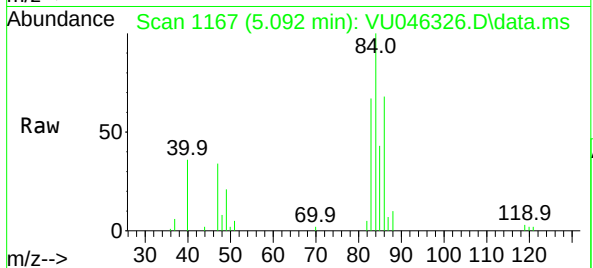
EW5P7

Tgt Ion: 83 Resp: 12974

Ion Ratio Lower Upper

83 100

85 63.6 45.8 85.2



#30

1,1,1-Trichloroethane

Concen: 87.446 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU046326.D

Acq: 13 Dec 2021 19:20

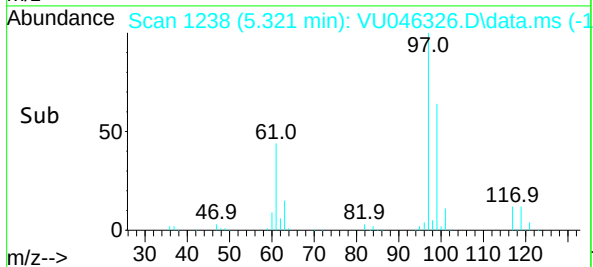
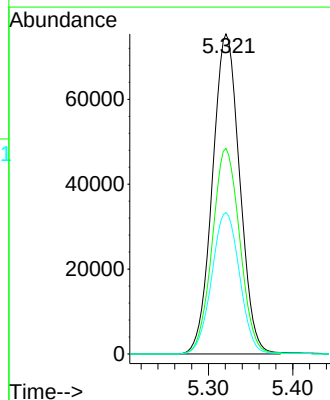
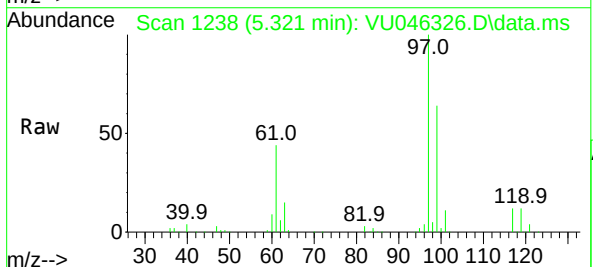
Tgt Ion: 97 Resp: 169150

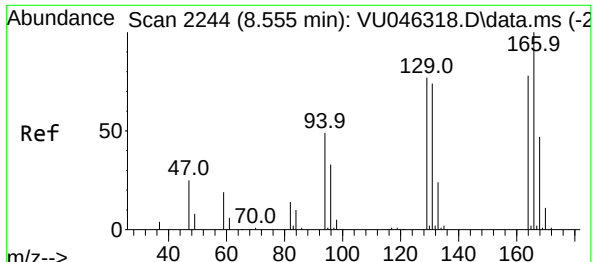
Ion Ratio Lower Upper

97 100

99 65.0 51.8 77.6

61 45.3 34.4 51.6





#46  
 Tetrachloroethene  
 Concen: 10.531 ug/L  
 RT: 8.555 min Scan# 21  
 Delta R.T. 0.000 min  
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Tgt Ion:164 Resp: 9724

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 95.7  | 71.1  | 132.1 |
| 131 | 90.3  | 67.8  | 126.0 |
| 166 | 116.4 | 90.6  | 168.2 |

