

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW041723\  
 Data File : VW030609.D  
 Acq On : 18 Apr 2023 01:06  
 Operator : SY/MD  
 Sample : 02360-19  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 18 04:58:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM041723WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 18 02:45:56 2023  
 Response via : Initial Calibration

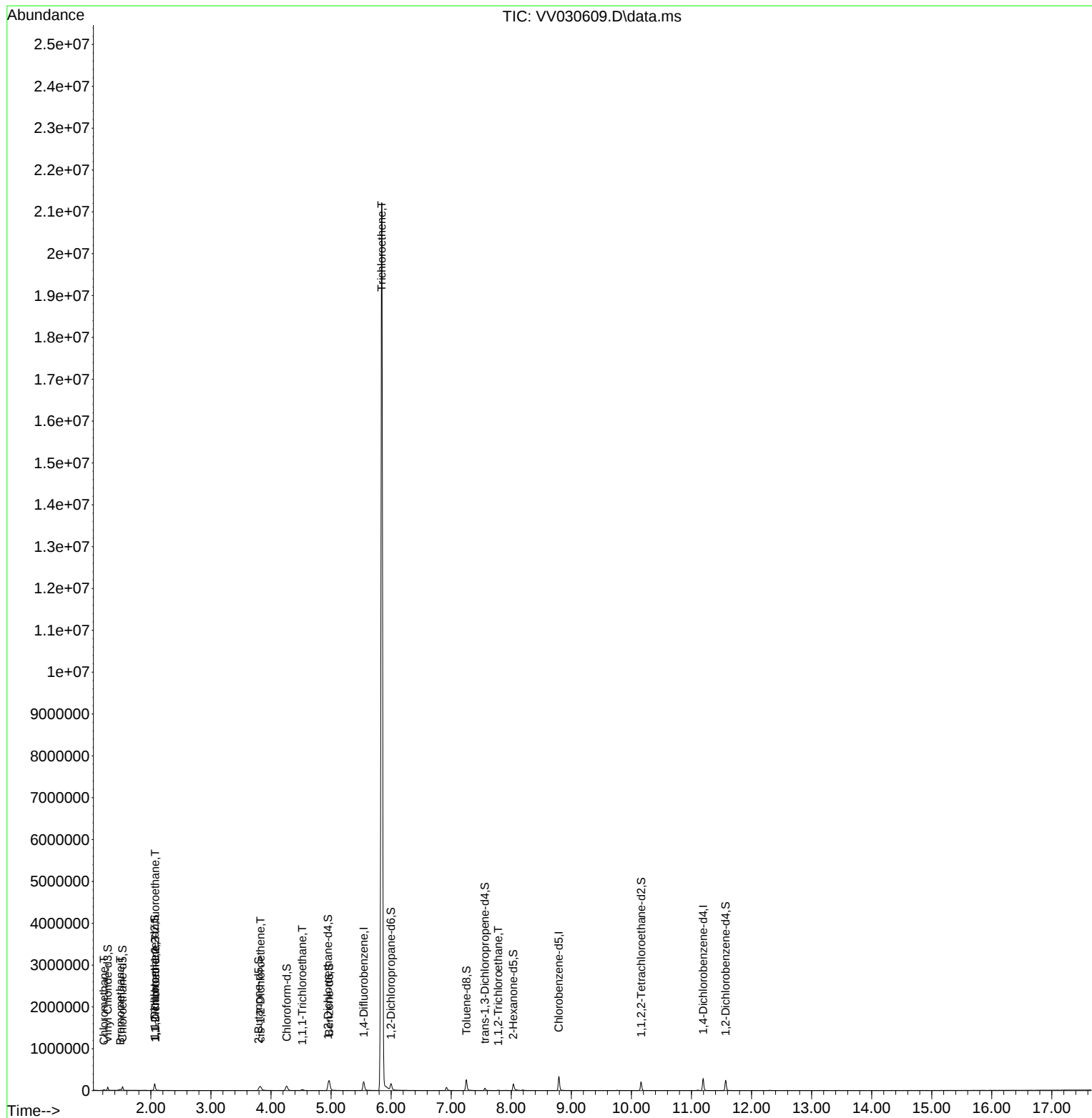
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542   | 114   | 180015   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.792   | 117   | 174073   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.194  | 152   | 73863    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.281   | 65    | 51489    | 39.017   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 78.040%  |
| 7) Chloroethane-d5            | 1.529   | 69    | 48990    | 44.300   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 88.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.063   | 65    | 24315    | 38.853   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 77.700%  |
| 21) 2-Butanone-d5             | 3.796   | 46    | 87699    | 120.993  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 120.990% |
| 24) Chloroform-d              | 4.262   | 84    | 111047   | 46.434   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.860%  |
| 26) 1,2-Dichloroethane-d4     | 4.950   | 65    | 77824    | 50.616   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.240% |
| 32) Benzene-d6                | 4.969   | 84    | 197198   | 47.915   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.820%  |
| 36) 1,2-Dichloropropane-d6    | 5.998   | 67    | 65529    | 51.258   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 102.520% |
| 41) Toluene-d8                | 7.252   | 98    | 166298   | 43.036   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 86.080%  |
| 43) trans-1,3-Dichloroprop... | 7.561   | 79    | 29419    | 45.658   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.320%  |
| 47) 2-Hexanone-d5             | 8.034   | 63    | 52237    | 103.724  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 103.720% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.162  | 84    | 91473    | 49.311   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 98.620%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.570  | 152   | 61257    | 52.177   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.360% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.220   | 50    | 21355    | 10.518   | ug/L   | 100      |
| 6) Bromomethane               | 1.490   | 94    | 4084     | 6.292    | ug/L   | 88       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.072   | 101   | 3970     | 2.848    | ug/L   | 87       |
| 12) 1,1-Dichloroethene        | 2.076   | 96    | 3779     | 2.998    | ug/L # | 1        |
| 20) cis-1,2-Dichloroethene    | 3.825   | 96    | 40362    | 29.159   | ug/L   | 91       |
| 30) 1,1,1-Trichloroethane     | 4.519   | 97    | 16448    | 6.724    | ug/L   | 97       |
| 34) Trichloroethene           | 5.844   | 95    | 6789875  | 4938.254 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 7.783   | 97    | 2684     | 1.881    | ug/L   | 94       |
| -----                         |         |       |          |          |        |          |

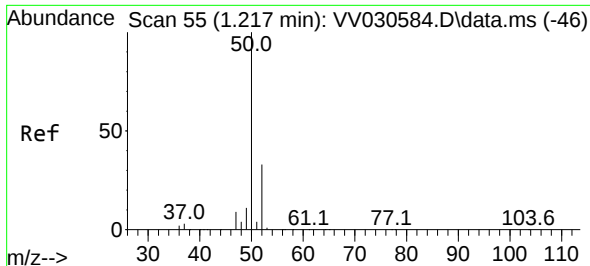
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : 02360-19  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Apr 18 04:58:35 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM041723WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Apr 18 02:45:56 2023  
Response via : Initial Calibration

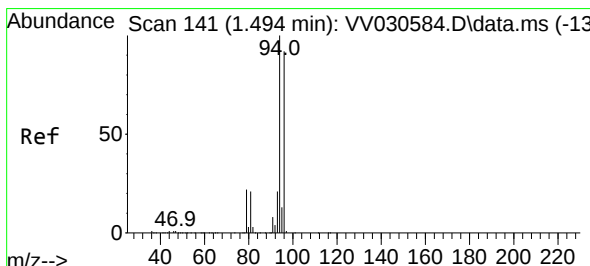
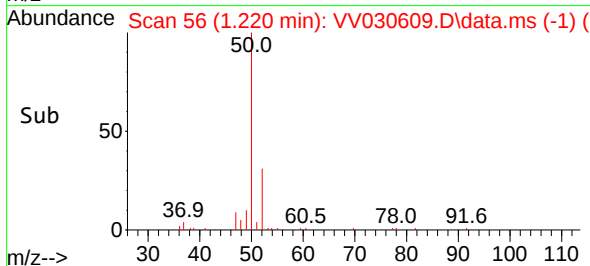
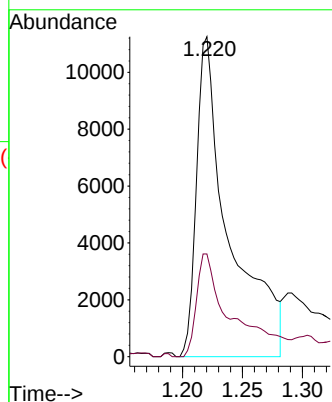
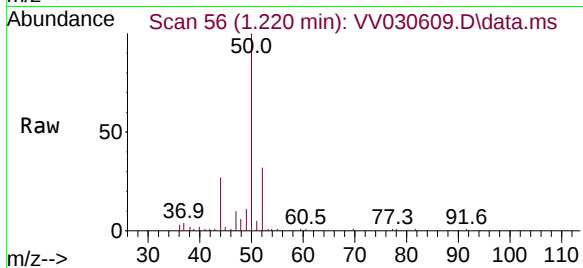




#3  
Chloromethane  
Concen: 10.518 ug/L  
RT: 1.220 min Scan# 50  
Delta R.T. 0.003 min  
Lab File: VV030609.D  
Acq: 18 Apr 2023 01:06

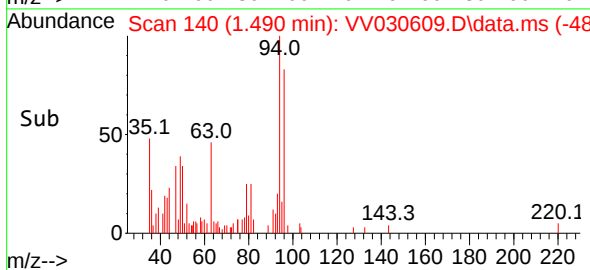
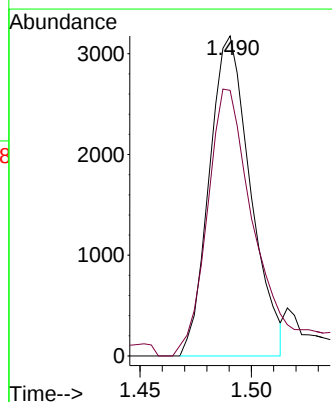
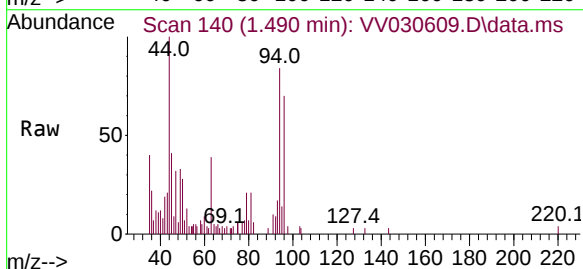
Instrument :  
MSVOA\_V  
ClientSampleId :

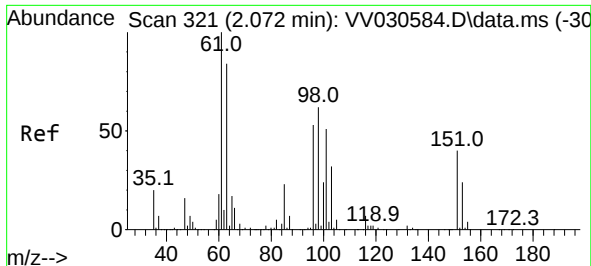
Tgt Ion: 50 Resp: 21355  
Ion Ratio Lower Upper  
50 100  
52 32.1 22.5 41.9



#6  
Bromomethane  
Concen: 6.292 ug/L  
RT: 1.490 min Scan# 140  
Delta R.T. -0.003 min  
Lab File: VV030609.D  
Acq: 18 Apr 2023 01:06

Tgt Ion: 94 Resp: 4084  
Ion Ratio Lower Upper  
94 100  
96 83.0 66.3 123.1

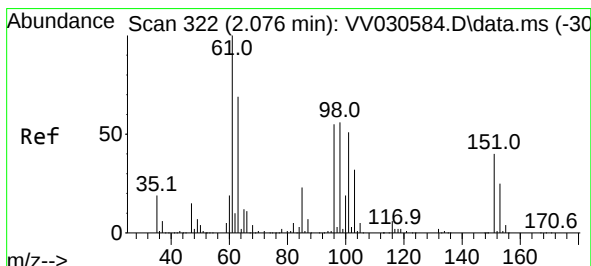
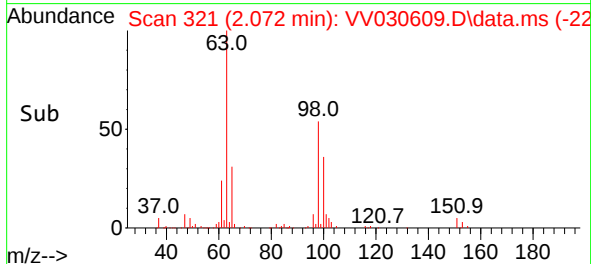
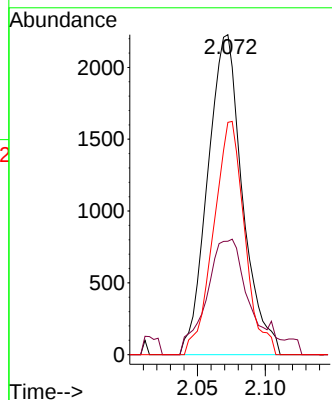
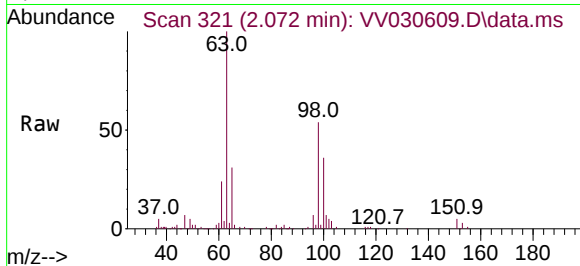




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 2.848 ug/L  
RT: 2.072 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VV030609.D  
Acq: 18 Apr 2023 01:06

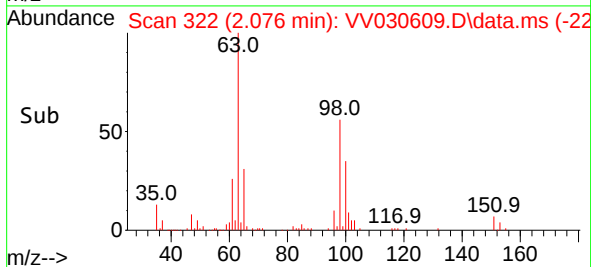
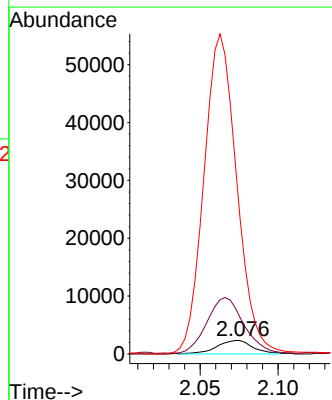
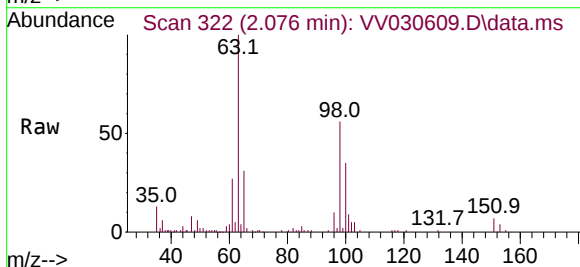
Instrument :  
MSVOA\_V  
ClientSampleId :

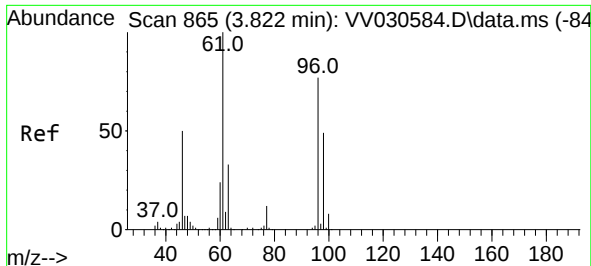
Tgt Ion:101 Resp: 3970  
Ion Ratio Lower Upper  
101 100  
85 41.9 37.5 56.3  
151 65.4 63.5 95.3



#12  
1,1-Dichloroethene  
Concen: 2.998 ug/L  
RT: 2.076 min Scan# 322  
Delta R.T. -0.000 min  
Lab File: VV030609.D  
Acq: 18 Apr 2023 01:06

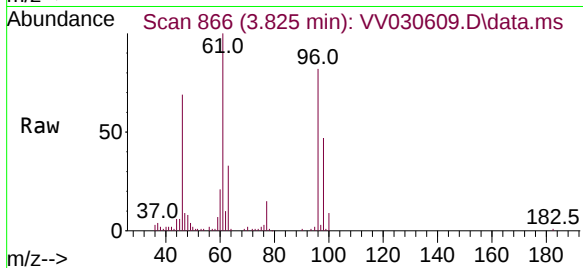
Tgt Ion: 96 Resp: 3779  
Ion Ratio Lower Upper  
96 100  
61 270.3 131.9 245.0#  
63 1004.0 99.8 185.3#





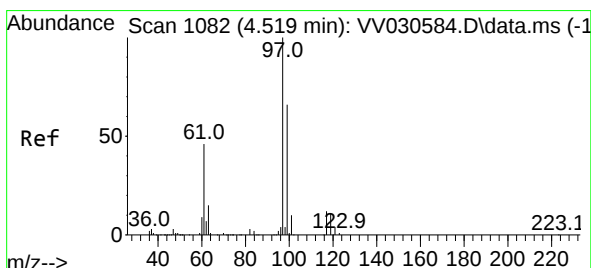
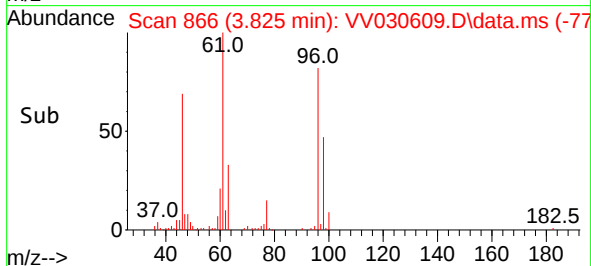
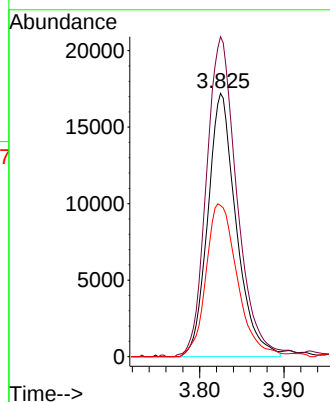
#20  
 cis-1,2-Dichloroethene  
 Concen: 29.159 ug/L  
 RT: 3.825 min Scan# 80  
 Delta R.T. 0.003 min  
 Lab File: VV030609.D  
 Acq: 18 Apr 2023 01:06

Instrument :  
 MSVOA\_V  
 ClientSampleId :



Tgt Ion: 96 Resp: 40362

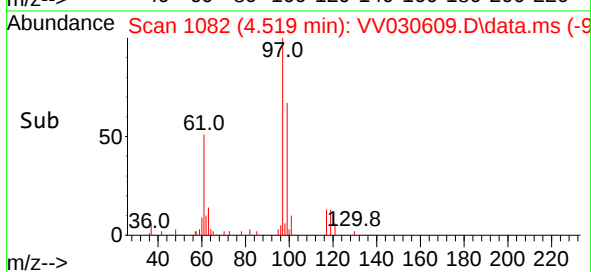
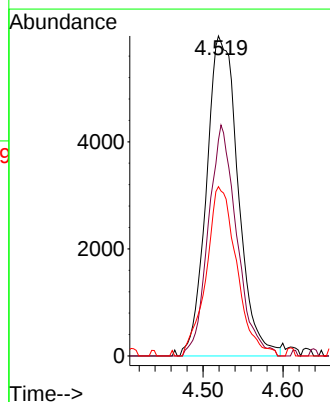
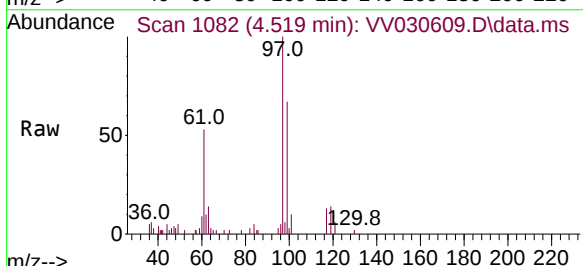
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 121.5 | 92.3  | 171.3 |
| 98  | 57.4  | 45.9  | 85.3  |

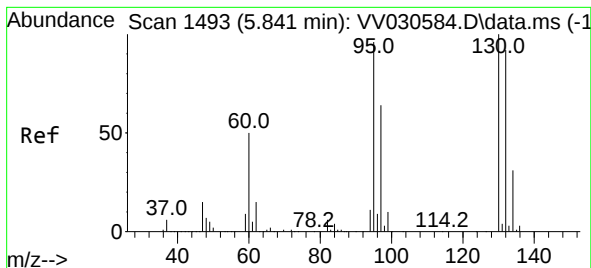


#30  
 1,1,1-Trichloroethane  
 Concen: 6.724 ug/L  
 RT: 4.519 min Scan# 1082  
 Delta R.T. -0.000 min  
 Lab File: VV030609.D  
 Acq: 18 Apr 2023 01:06

Tgt Ion: 97 Resp: 16448

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 64.5  | 51.4  | 77.0  |
| 61  | 50.9  | 37.0  | 55.6  |





#34

Trichloroethene

Concen: 4938.254 ug/L

RT: 5.844 min Scan# 1493

Delta R.T. 0.003 min

Lab File: VV030609.D

Acq: 18 Apr 2023 01:06

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 95 Resp: 6789875

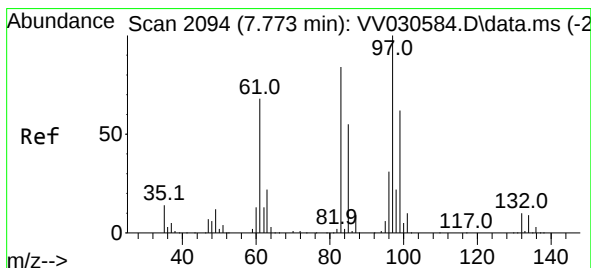
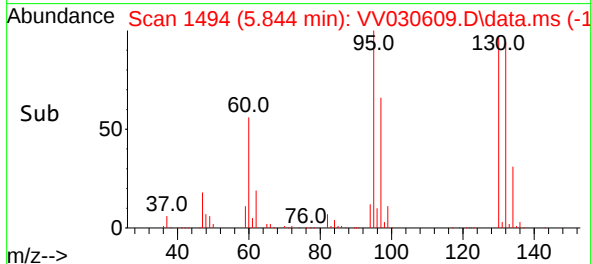
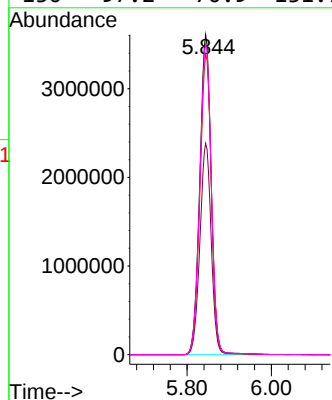
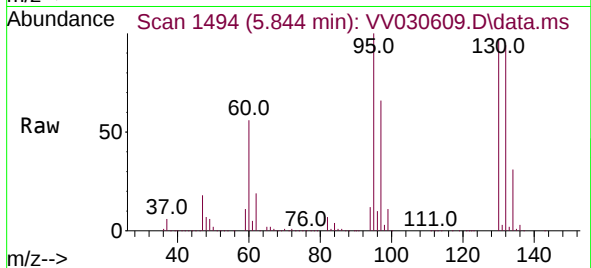
Ion Ratio Lower Upper

95 100

97 66.0 45.8 85.2

132 93.9 70.6 131.2

130 97.2 70.9 131.7



#45

1,1,2-Trichloroethane

Concen: 1.881 ug/L

RT: 7.783 min Scan# 2097

Delta R.T. 0.010 min

Lab File: VV030609.D

Acq: 18 Apr 2023 01:06

Tgt Ion: 97 Resp: 2684

Ion Ratio Lower Upper

97 100

99 52.6 43.8 81.4

83 83.8 59.6 110.6

85 56.0 37.4 69.4

