

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW041823\  
 Data File : VW030654.D  
 Acq On : 19 Apr 2023 06:14  
 Operator : SY/MD  
 Sample : 02360-20  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AQ3

Quant Time: Apr 19 06:57:08 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

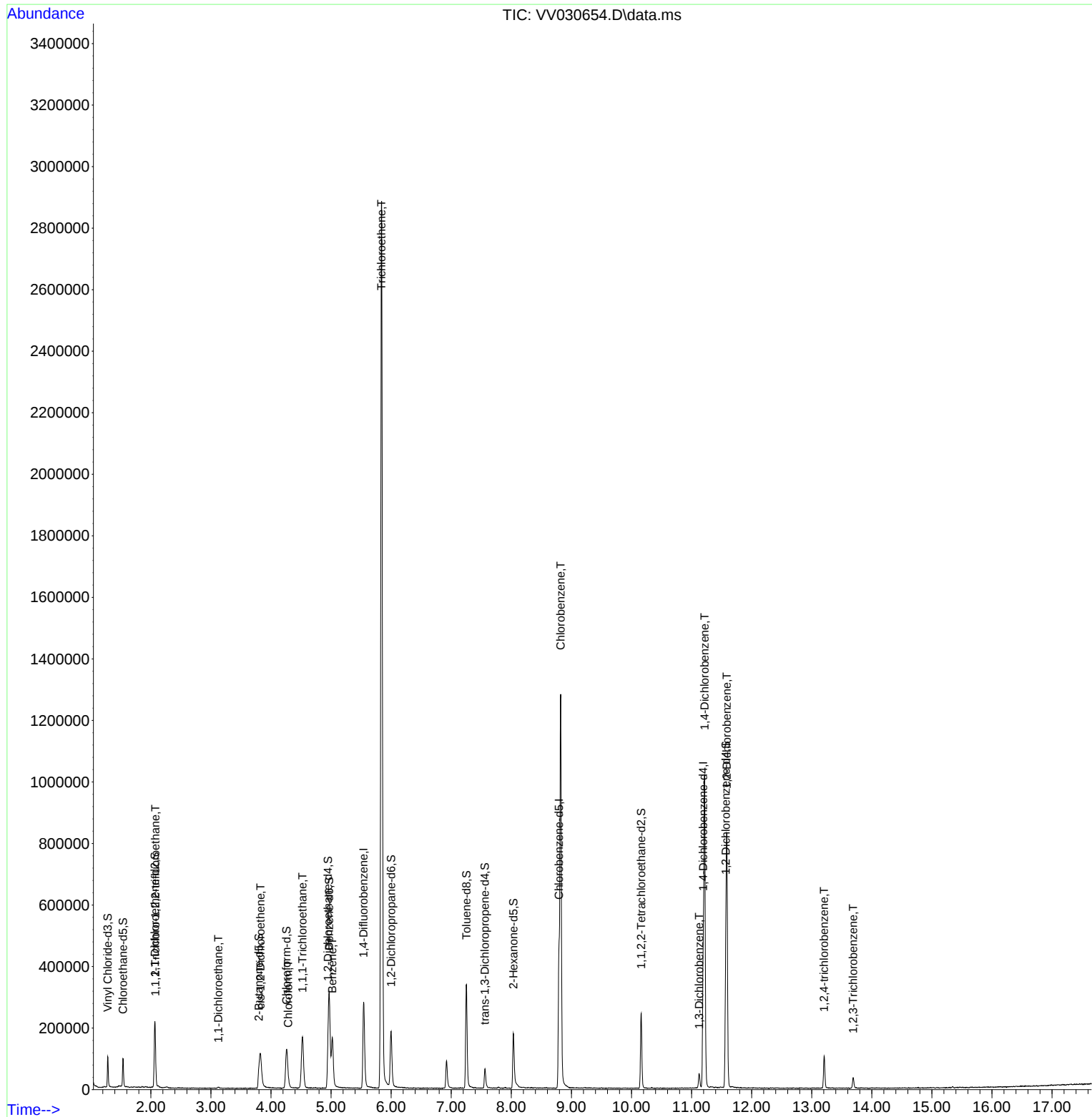
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.542          | 114  | 232750     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.793          | 117  | 221638     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.194         | 152  | 103760     | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.282          | 65   | 66784      | 39.141   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 78.280%  |        |          |
| 7) Chloroethane-d5            | 1.536          | 69   | 58923      | 41.210   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 82.420%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.066          | 65   | 32169      | 39.756   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 79.520%  |        |          |
| 21) 2-Butanone-d5             | 3.799          | 46   | 97127      | 103.639  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 103.640% |        |          |
| 24) Chloroform-d              | 4.259          | 84   | 134038     | 43.348   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 86.700%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 4.950          | 65   | 98638      | 49.617   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 99.240%  |        |          |
| 32) Benzene-d6                | 4.970          | 84   | 257440     | 49.128   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 98.260%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 5.998          | 67   | 82807      | 50.873   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 101.740% |        |          |
| 41) Toluene-d8                | 7.252          | 98   | 218482     | 44.407   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 88.820%  |        |          |
| 43) trans-1,3-Dichloroprop... | 7.561          | 79   | 35350      | 43.088   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 86.180%  |        |          |
| 47) 2-Hexanone-d5             | 8.034          | 63   | 57577      | 89.792   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 89.790%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.162         | 84   | 109387     | 46.313   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 92.620%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.571         | 152  | 85798      | 52.023   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 104.040% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.076          | 101  | 4166       | 2.311    | ug/L # | 80       |
| 19) 1,1-Dichloroethane        | 3.124          | 63   | 2778       | 0.828    | ug/L # | 86       |
| 20) cis-1,2-Dichloroethene    | 3.825          | 96   | 48722      | 27.223   | ug/L   | 97       |
| 25) Chloroform                | 4.285          | 83   | 7013       | 2.020    | ug/L   | 91       |
| 30) 1,1,1-Trichloroethane     | 4.523          | 97   | 136237     | 43.745   | ug/L   | 99       |
| 33) Benzene                   | 5.021          | 78   | 161801     | 24.040   | ug/L   | 100      |
| 34) Trichloroethene           | 5.838          | 95   | 970536     | 554.384  | ug/L   | 97       |
| 51) Chlorobenzene             | 8.822          | 112  | 638607     | 133.757  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.127         | 146  | 17911      | 5.528    | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.217         | 146  | 380485     | 111.373  | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene       | 11.587         | 146  | 284990     | 87.196   | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.207         | 180  | 30398      | 14.629   | ug/L   | 96       |
| 72) 1,2,3-Trichlorobenzene    | 13.689         | 180  | 9480       | 4.601    | ug/L   | 93       |
| -----                         |                |      |            |          |        |          |

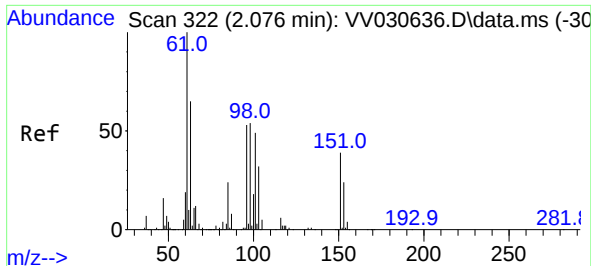
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV041823\  
Data File : VV030654.D  
Acq On : 19 Apr 2023 06:14  
Operator : SY/MD  
Sample : 02360-20  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AQ3

Quant Time: Apr 19 06:57:08 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

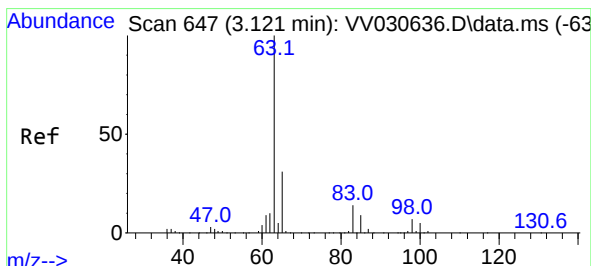
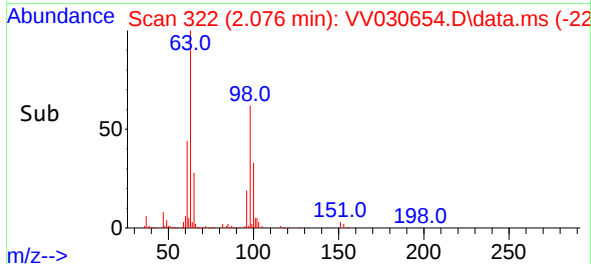
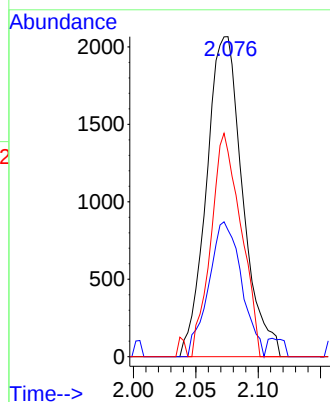
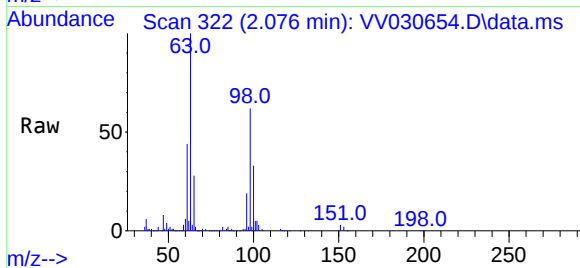




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 2.311 ug/L  
RT: 2.076 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VV030654.D  
Acq: 19 Apr 2023 06:14

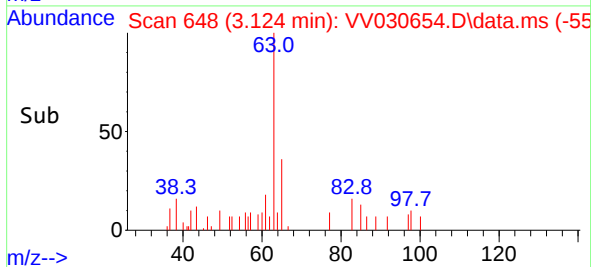
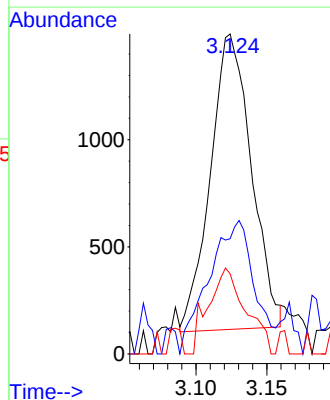
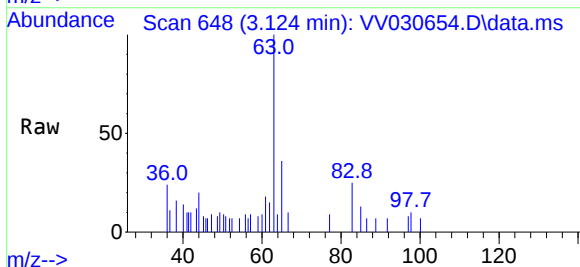
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AQ3

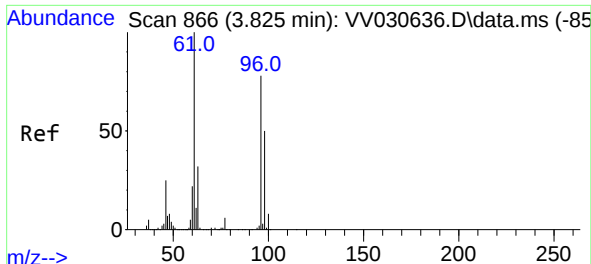
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 4166  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 38.5  | 37.5  | 56.3  |
| 151      | 58.1  | 63.5  | 95.3# |



#19  
1,1-Dichloroethane  
Concen: 0.828 ug/L  
RT: 3.124 min Scan# 648  
Delta R.T. 0.007 min  
Lab File: VV030654.D  
Acq: 19 Apr 2023 06:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 2778  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 36.0  | 21.8  | 40.6  |
| 83       | 25.0  | 10.2  | 19.0# |

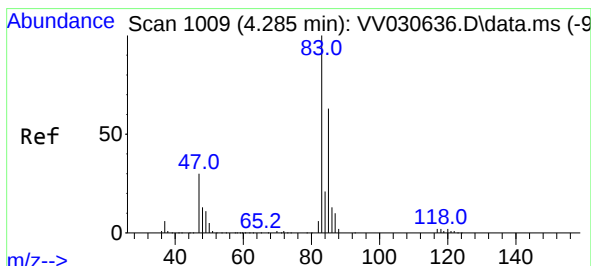
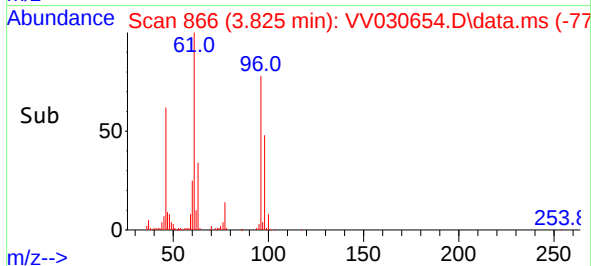
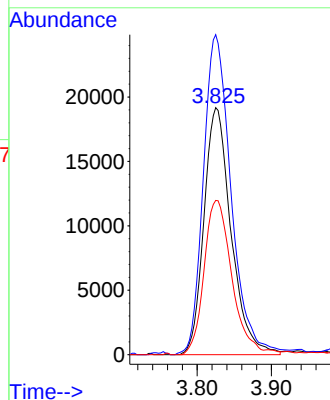
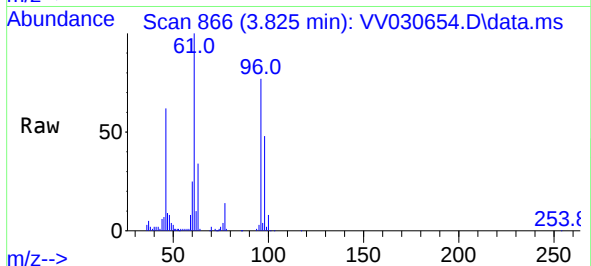




#20  
cis-1,2-Dichloroethene  
Concen: 27.223 ug/L  
RT: 3.825 min Scan# 866  
Delta R.T. 0.003 min  
Lab File: VV030654.D  
Acq: 19 Apr 2023 06:14

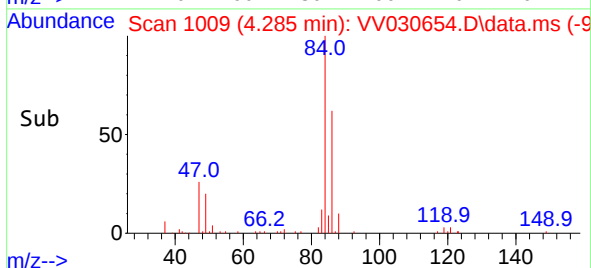
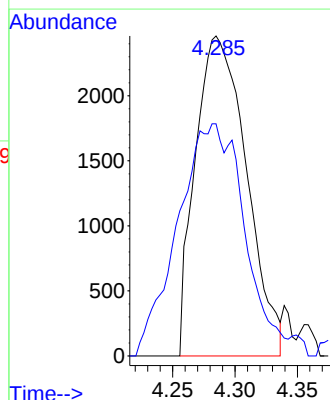
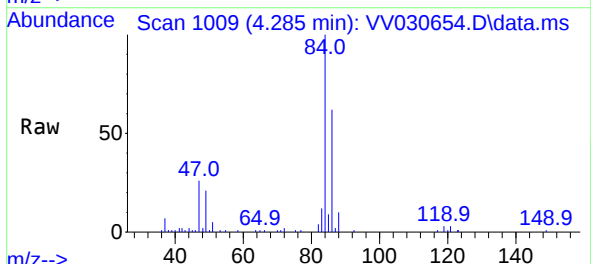
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AQ3

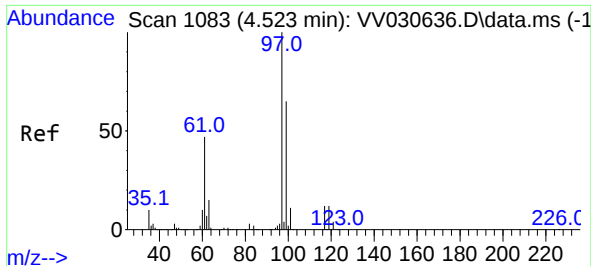
Tgt Ion: 96 Resp: 48722  
Ion Ratio Lower Upper  
96 100  
61 129.5 92.3 171.3  
98 62.4 45.9 85.3



#25  
Chloroform  
Concen: 2.020 ug/L  
RT: 4.285 min Scan# 1009  
Delta R.T. 0.000 min  
Lab File: VV030654.D  
Acq: 19 Apr 2023 06:14

Tgt Ion: 83 Resp: 7013  
Ion Ratio Lower Upper  
83 100  
85 72.6 45.8 85.2





#30

1,1,1-Trichloroethane

Concen: 43.745 ug/L

RT: 4.523 min Scan# 1083

Delta R.T. 0.003 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

Instrument :

MSVOA\_V

ClientSampleId :

C0AQ3

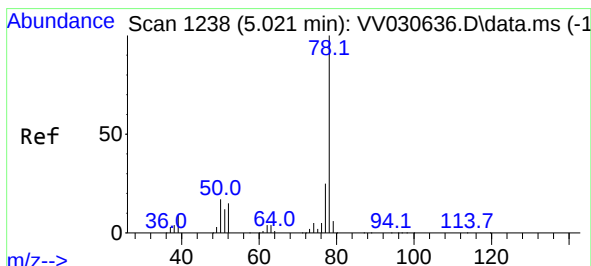
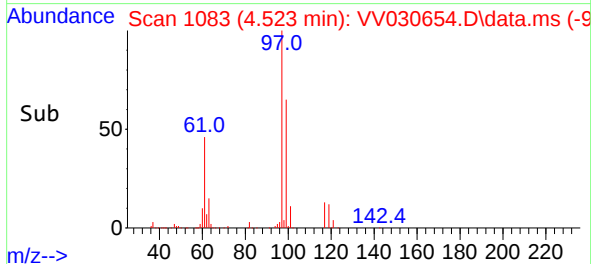
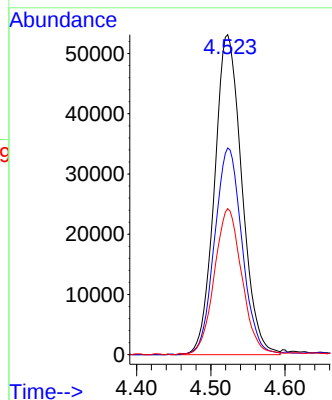
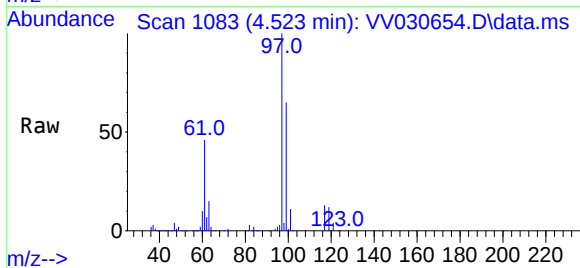
Tgt Ion: 97 Resp: 136237

Ion Ratio Lower Upper

97 100

99 65.0 51.4 77.0

61 45.5 37.0 55.6



#33

Benzene

Concen: 24.040 ug/L

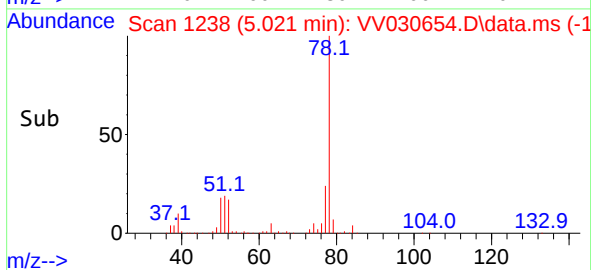
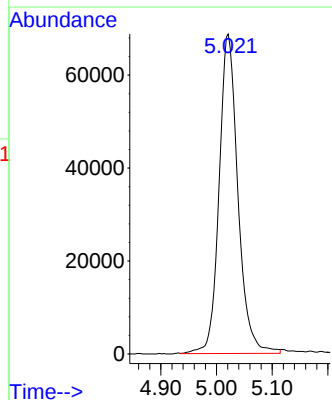
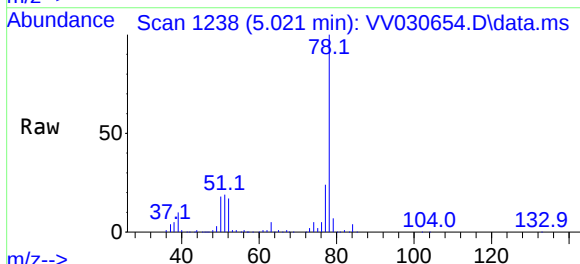
RT: 5.021 min Scan# 1238

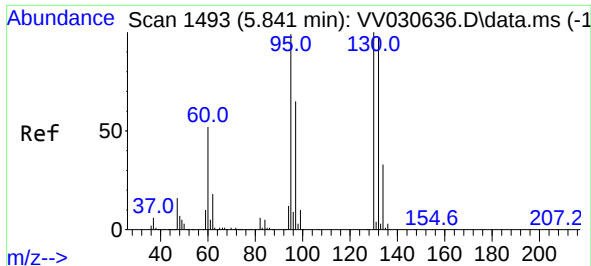
Delta R.T. 0.003 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

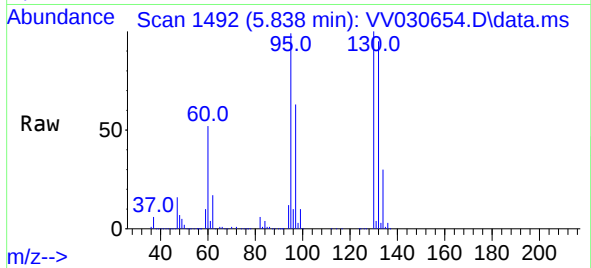
Tgt Ion: 78 Resp: 161801





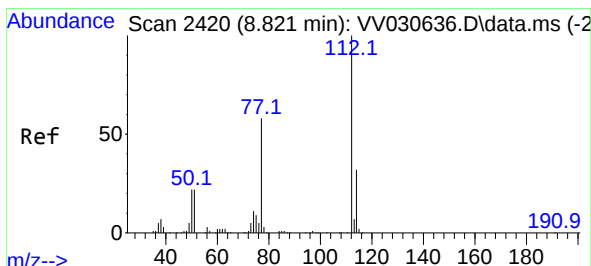
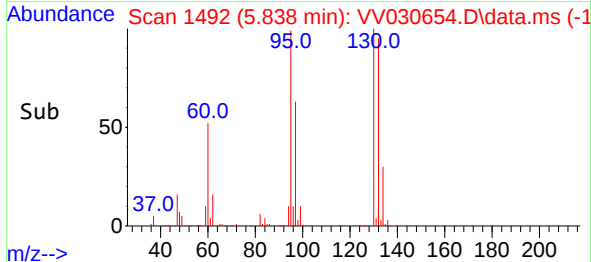
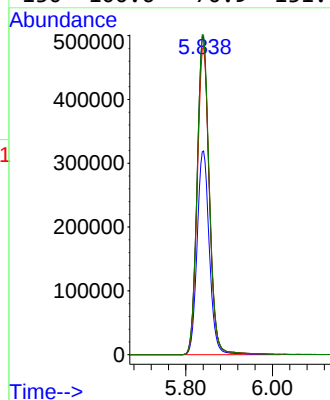
#34  
 Trichloroethene  
 Concen: 554.384 ug/L  
 RT: 5.838 min Scan# 1492  
 Delta R.T. -0.003 min  
 Lab File: VV030654.D  
 Acq: 19 Apr 2023 06:14

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AQ3



Tgt Ion: 95 Resp: 970536

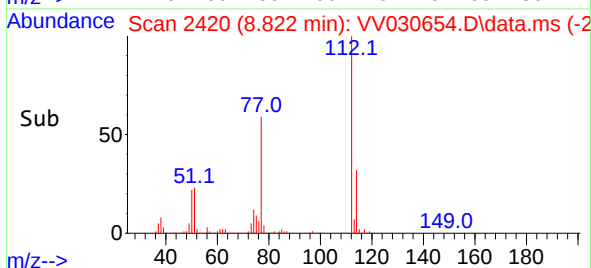
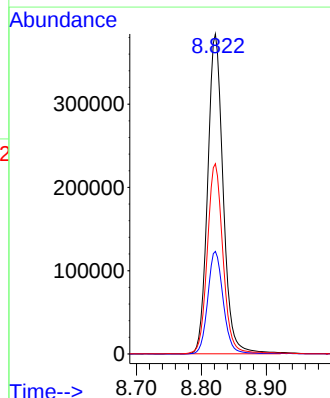
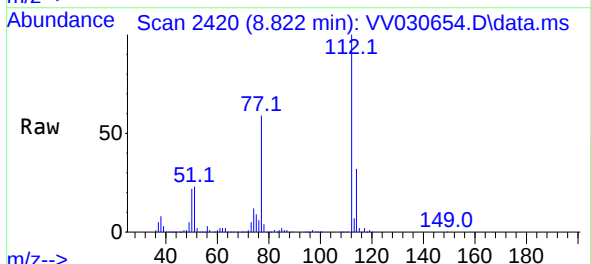
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.8  | 45.8  | 85.2  |
| 132 | 96.0  | 70.6  | 131.2 |
| 130 | 100.6 | 70.9  | 131.7 |

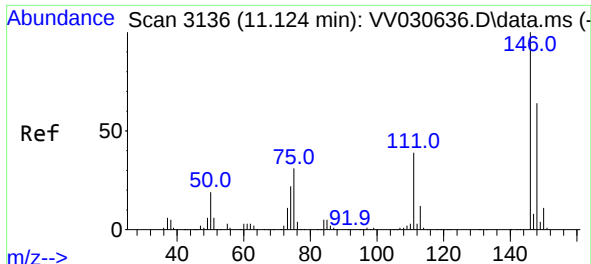


#51  
 Chlorobenzene  
 Concen: 133.757 ug/L  
 RT: 8.822 min Scan# 2420  
 Delta R.T. 0.000 min  
 Lab File: VV030654.D  
 Acq: 19 Apr 2023 06:14

Tgt Ion: 112 Resp: 638607

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 114 | 32.1  | 22.4  | 41.6  |
| 77  | 59.4  | 47.4  | 71.0  |

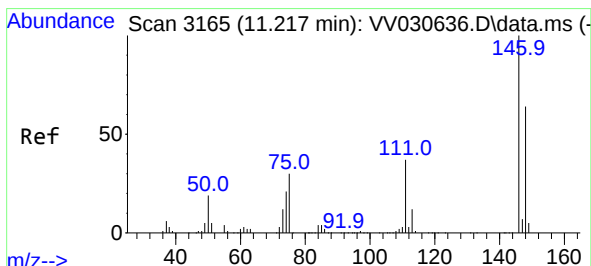
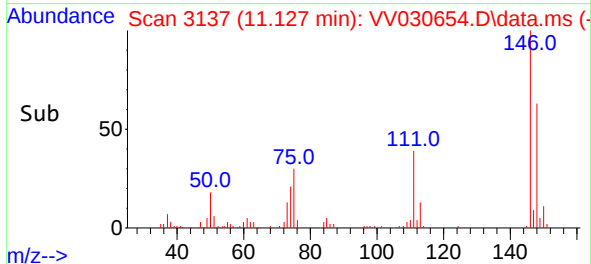
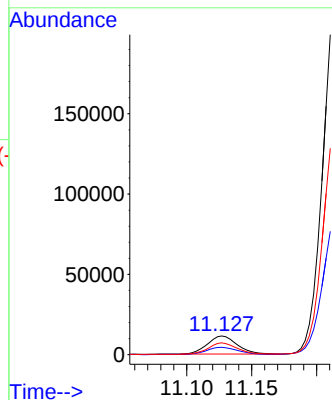
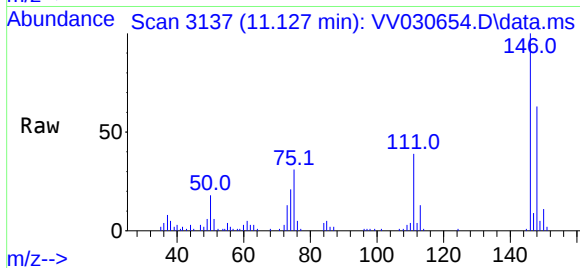




#64  
1,3-Dichlorobenzene  
Concen: 5.528 ug/L  
RT: 11.127 min Scan# 3136  
Delta R.T. 0.003 min  
Lab File: VV030654.D  
Acq: 19 Apr 2023 06:14

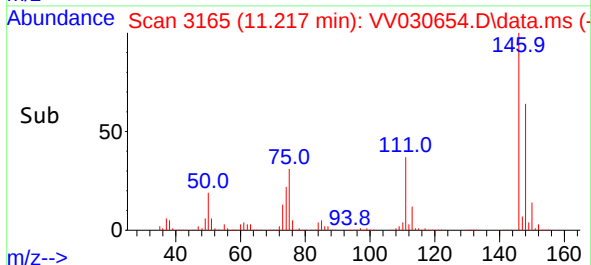
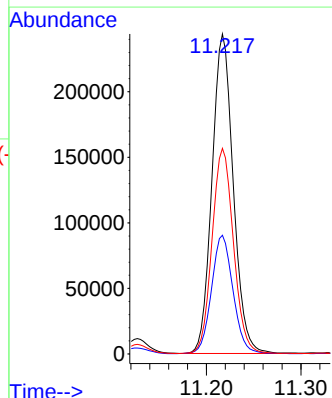
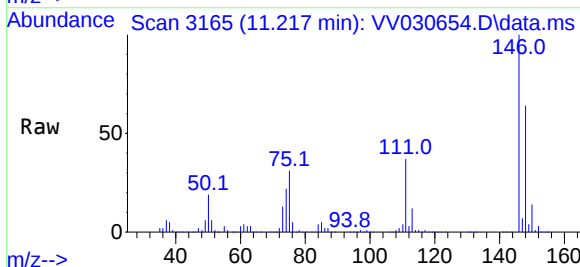
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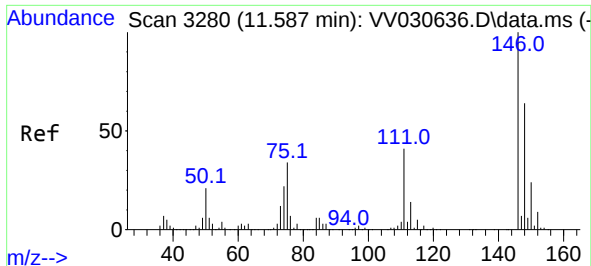
Tgt Ion:146 Resp: 17911  
Ion Ratio Lower Upper  
146 100  
111 39.2 27.0 50.2  
148 62.7 44.8 83.2



#65  
1,4-Dichlorobenzene  
Concen: 111.373 ug/L  
RT: 11.217 min Scan# 3165  
Delta R.T. 0.000 min  
Lab File: VV030654.D  
Acq: 19 Apr 2023 06:14

Tgt Ion:146 Resp: 380485  
Ion Ratio Lower Upper  
146 100  
111 37.1 26.5 49.1  
148 64.2 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 87.196 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

Instrument :

MSVOA\_V

ClientSampleId :

C0AQ3

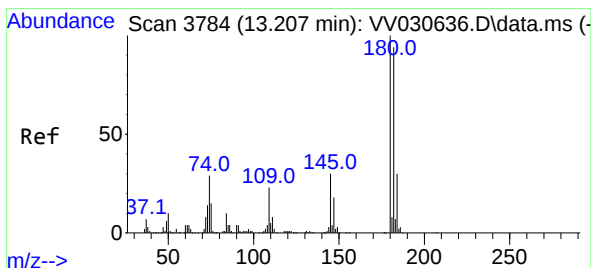
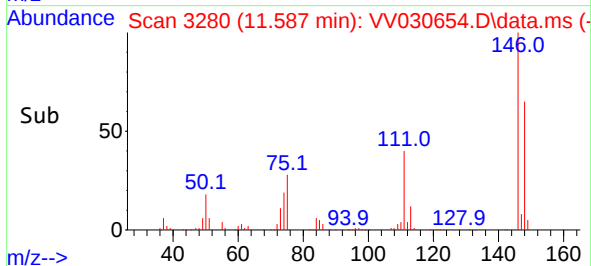
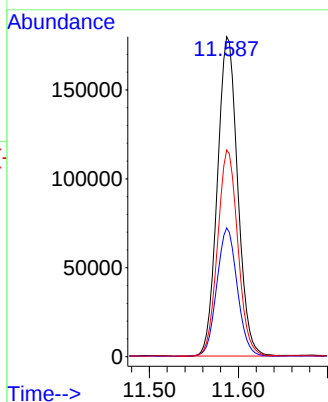
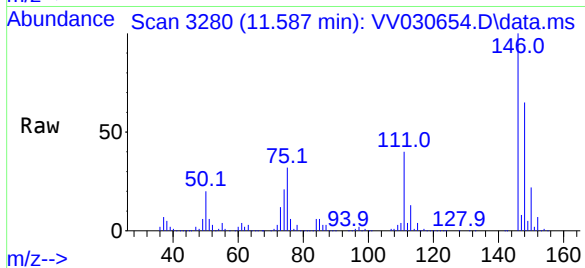
Tgt Ion:146 Resp: 284990

Ion Ratio Lower Upper

146 100

111 40.2 32.0 48.0

148 64.6 50.6 76.0



#70

1,2,4-trichlorobenzene

Concen: 14.629 ug/L

RT: 13.207 min Scan# 3784

Delta R.T. 0.000 min

Lab File: VV030654.D

Acq: 19 Apr 2023 06:14

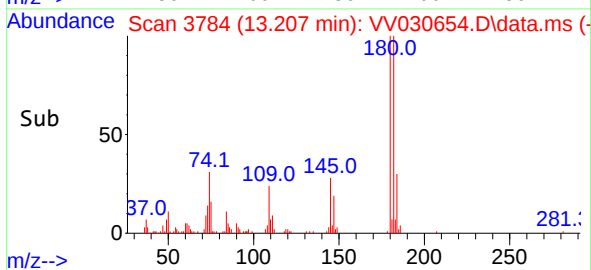
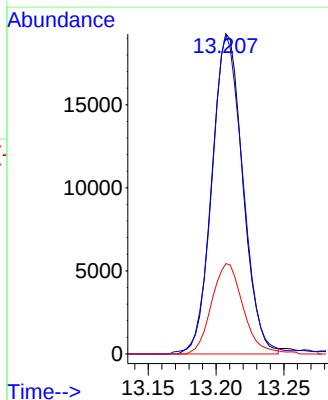
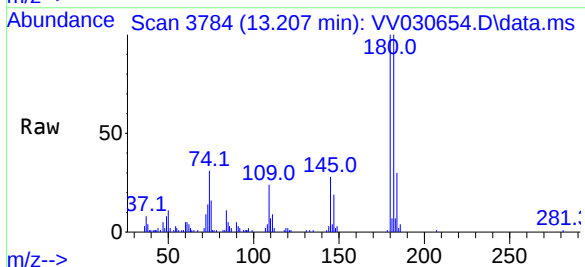
Tgt Ion:180 Resp: 30398

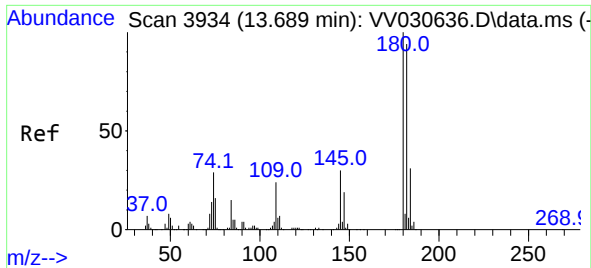
Ion Ratio Lower Upper

180 100

182 100.3 75.9 113.9

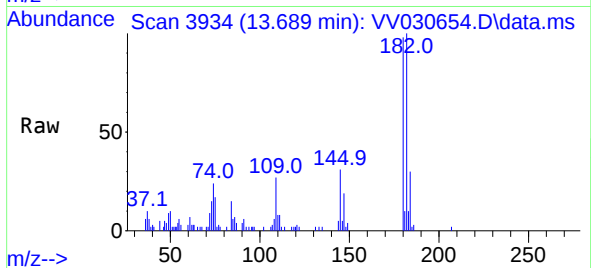
145 28.8 23.4 35.2





#72  
 1,2,3-Trichlorobenzene  
 Concen: 4.601 ug/L  
 RT: 13.689 min Scan# 3934  
 Delta R.T. 0.000 min  
 Lab File: VV030654.D  
 Acq: 19 Apr 2023 06:14

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AQ3



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 9480  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 102.5 | 76.2  | 114.4 |
| 145      | 35.2  | 25.1  | 37.7  |

