

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW072022\  
 Data File : VW026856.D  
 Acq On : 20 Jul 2022 18:21  
 Operator : SY/MD  
 Sample : N3802-10  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jul 21 01:52:11 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071122WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Jul 21 01:47:16 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.616  | 114   | 223505   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.850  | 117   | 229877   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249 | 152   | 98324    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.301  | 65    | 63728    | 3.125    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 62.600%  |
| 7) Chloroethane-d5            | 1.561  | 69    | 65570    | 3.722    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 74.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.101  | 63    | 89405    | 2.284    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 45.600%# |
| 20) 2-Butanone-d5             | 3.880  | 46    | 192540   | 60.503   | ug/L   | -0.02    |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 121.000% |
| 24) Chloroform-d              | 4.346  | 84    | 160634   | 4.505    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.031  | 65    | 73719    | 4.733    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 94.600%  |
| 32) Benzene-d6                | 5.047  | 84    | 267709   | 3.833    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 76.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.069  | 67    | 96145    | 4.591    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 91.800%  |
| 41) Toluene-d8                | 7.317  | 98    | 184170   | 2.970    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 59.400%# |
| 43) trans-1,3-Dichloroprop... | 7.625  | 79    | 25464    | 3.716    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 74.400%  |
| 46) 2-Hexanone-d5             | 8.088  | 63    | 142759   | 48.120   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 96.240%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217 | 84    | 79345    | 4.863    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 97.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.625 | 152   | 80345    | 4.690    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 93.800%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.237  | 50    | 1607     | 0.059    | ug/L   | 90       |
| 14) Carbon disulfide          | 2.288  | 76    | 3802     | 0.066    | ug/L   | 96       |
| 17) Methyl tert-butyl Ether   | 2.767  | 73    | 14022    | 0.415    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.188  | 63    | 4686     | 0.142    | ug/L # | 85       |
| 22) cis-1,2-Dichloroethene    | 3.912  | 96    | 2235     | 0.123    | ug/L   | 77       |
| 25) Chloroform                | 4.375  | 83    | 2513     | 0.073    | ug/L # | 71       |
| 27) 1,2-Dichloroethane        | 5.146  | 62    | 2326     | 0.125    | ug/L # | 72       |
| 34) Trichloroethene           | 5.921  | 95    | 8157     | 0.432    | ug/L   | 93       |
| 35) Methylcyclohexane         | 6.069  | 83    | 22727    | 0.788    | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 6.069  | 63    | 10403    | 0.566    | ug/L # | 85       |
| 39) cis-1,3-Dichloropropene   | 6.986  | 75    | 1821     | 0.080    | ug/L   | 88       |
| 47) Tetrachloroethene         | 7.976  | 164   | 11871    | 0.801    | ug/L   | 99       |
| 49) Dibromochloromethane      | 7.979  | 129   | 11849    | 0.765    | ug/L # | 10       |
| 51) Chlorobenzene             | 8.892  | 112   | 2169     | 0.044    | ug/L   | 94       |
| 61) 1,2,3-Trichloropropane    | 11.194 | 75    | 835      | 0.092    | ug/L # | 39       |
| 69) 1,3,5-Trichlorobenzene    | 12.648 | 180   | 1758     | 0.083    | ug/L # | 95       |
| 70) 1,2,4-trichlorobenzene    | 13.268 | 180   | 2291     | 0.142    | ug/L # | 88       |
| 71) Naphthalene               | 13.509 | 128   | 6327     | 0.236    | ug/L   | 97       |
| 72) 1,2,3-Trichlorobenzene    | 13.751 | 180   | 2665     | 0.177    | ug/L   | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV072022\  
Data File : VV026856.D  
Acq On : 20 Jul 2022 18:21  
Operator : SY/MD  
Sample : N3802-10  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Jul 21 01:52:11 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071122WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Jul 21 01:47:16 2022  
Response via : Initial Calibration

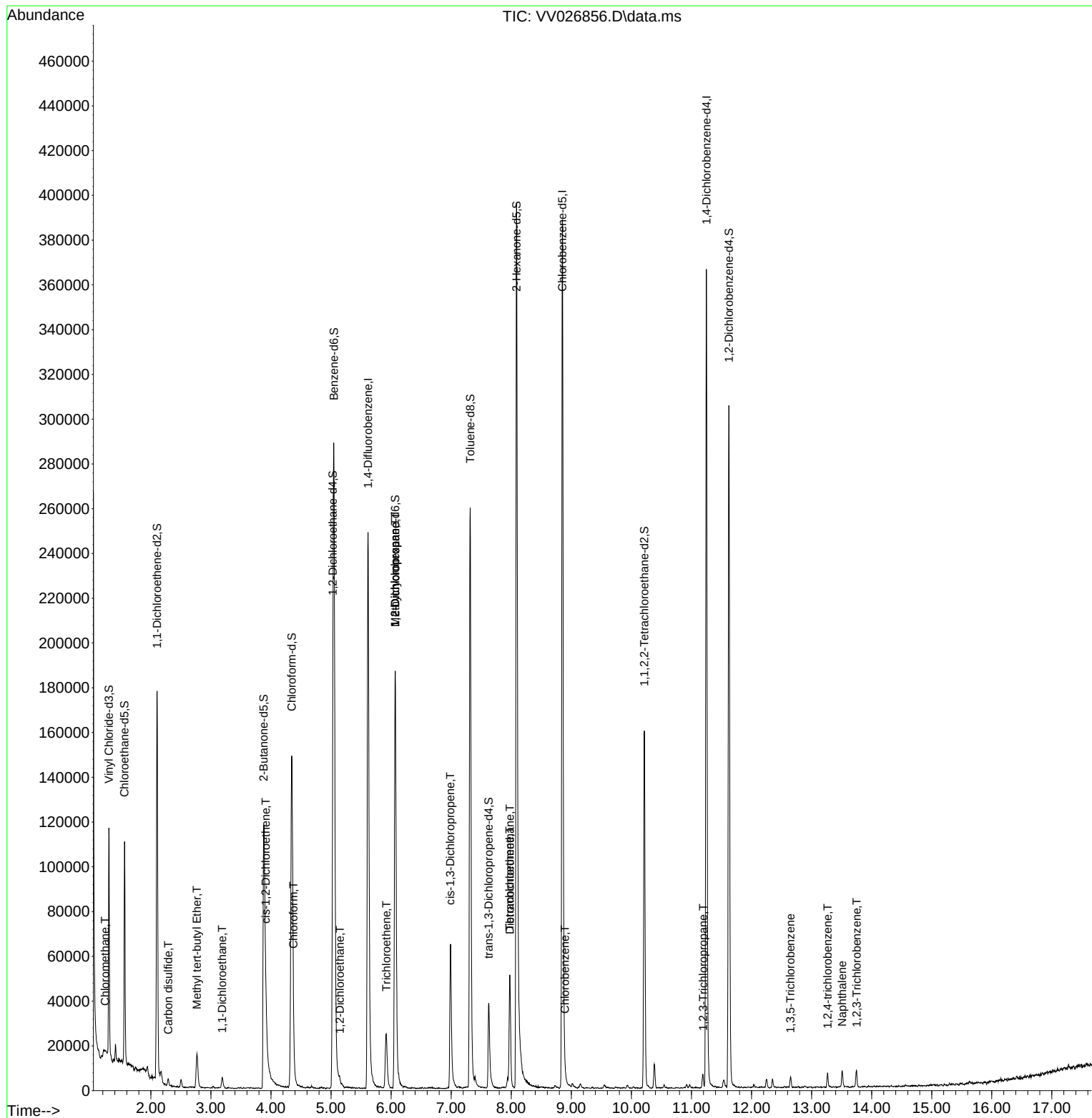
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

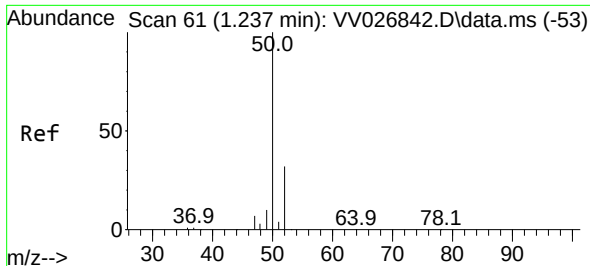
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV072022\  
Data File : VV026856.D  
Acq On : 20 Jul 2022 18:21  
Operator : SY/MD  
Sample : N3802-10  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

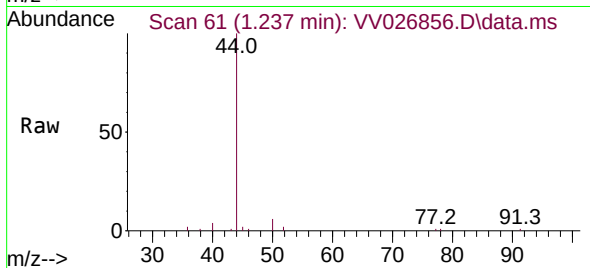
Quant Time: Jul 21 01:52:11 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR071122WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Jul 21 01:47:16 2022  
Response via : Initial Calibration



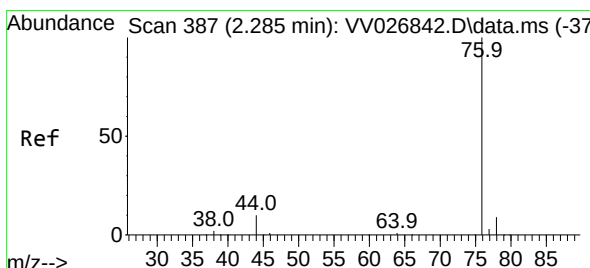
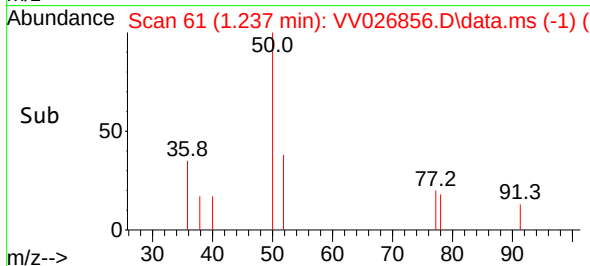
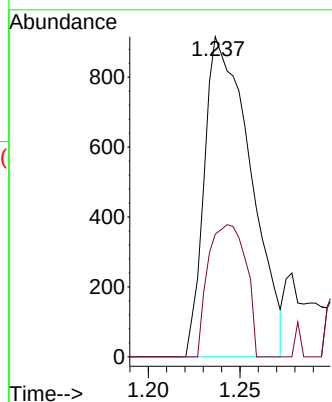


#3  
Chloromethane  
Concen: 0.059 ug/L  
RT: 1.237 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

Instrument :  
MSVOA\_V  
ClientSampleId :

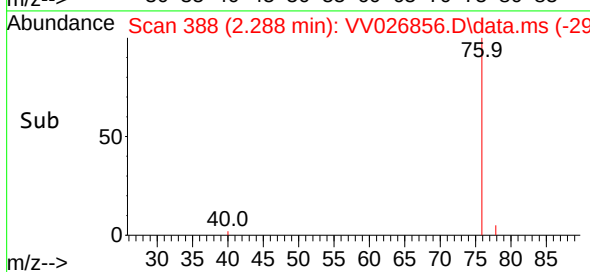
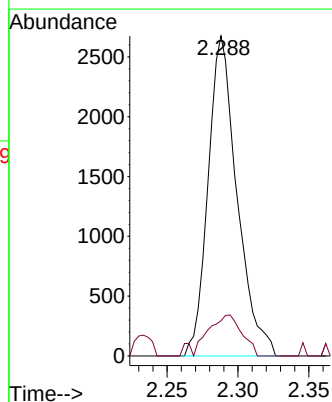
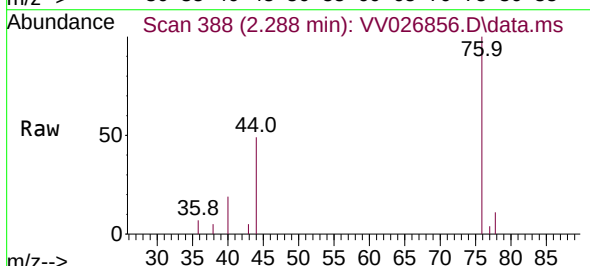


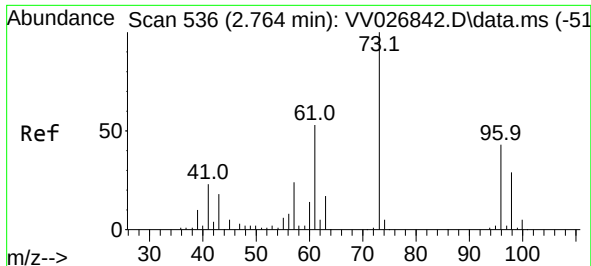
Tgt Ion: 50 Resp: 1607  
Ion Ratio Lower Upper  
50 100  
52 38.3 22.8 42.4



#14  
Carbon disulfide  
Concen: 0.066 ug/L  
RT: 2.288 min Scan# 388  
Delta R.T. 0.003 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

Tgt Ion: 76 Resp: 3802  
Ion Ratio Lower Upper  
76 100  
78 11.0 7.7 11.5

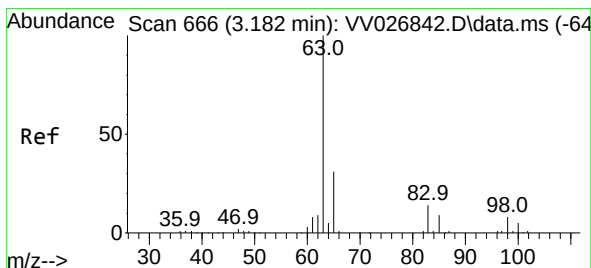
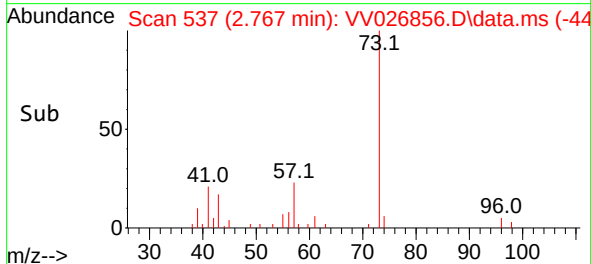
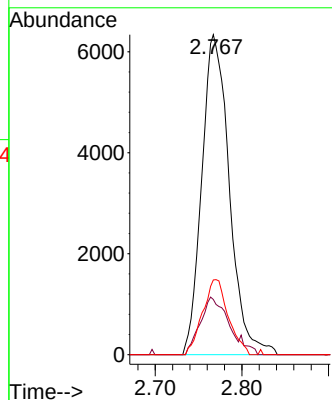
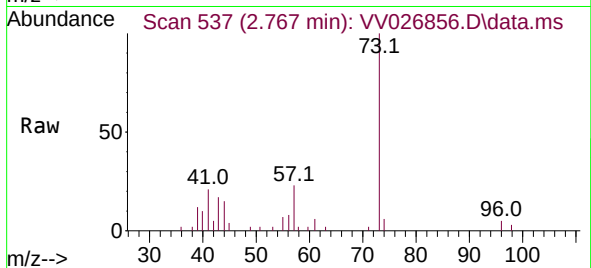




#17  
Methyl tert-butyl Ether  
Concen: 0.415 ug/L  
RT: 2.767 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

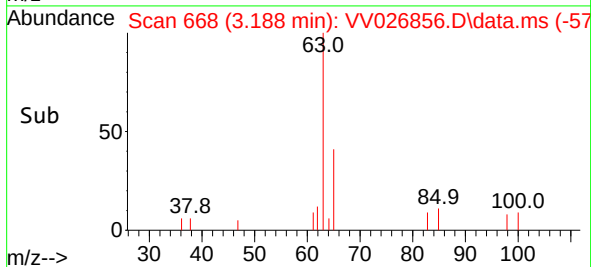
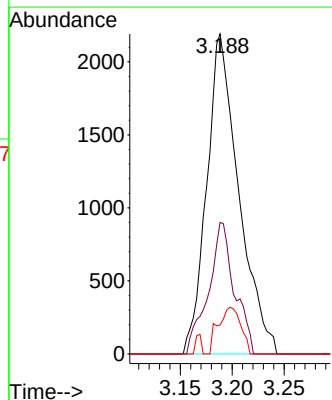
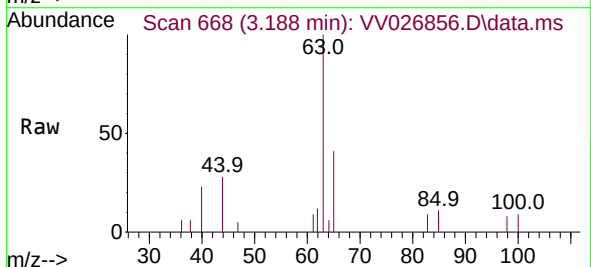
Instrument :  
MSVOA\_V  
ClientSampleId :

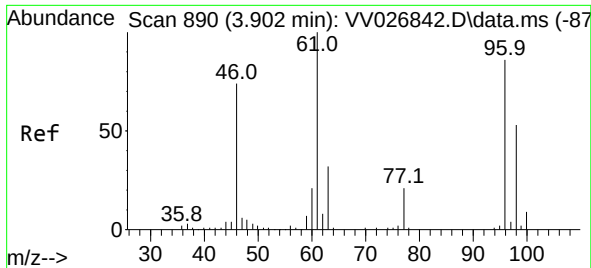
Tgt Ion: 73 Resp: 14022  
Ion Ratio Lower Upper  
73 100  
43 19.0 14.0 21.0  
57 21.9 17.6 26.4



#19  
1,1-Dichloroethane  
Concen: 0.142 ug/L  
RT: 3.188 min Scan# 668  
Delta R.T. 0.006 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

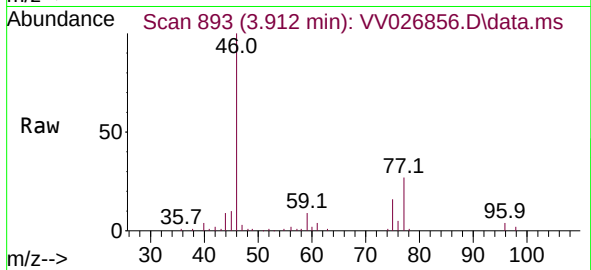
Tgt Ion: 63 Resp: 4686  
Ion Ratio Lower Upper  
63 100  
65 41.1 22.3 41.3  
83 9.0 9.9 18.5#



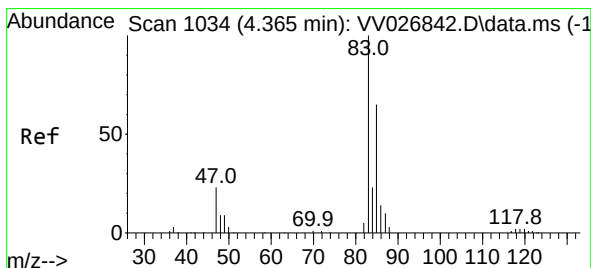
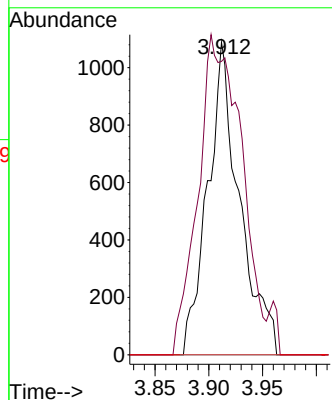
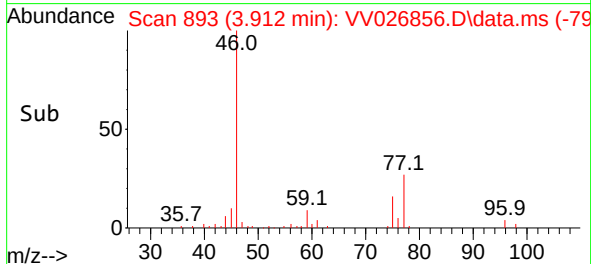


#22  
 cis-1,2-Dichloroethene  
 Concen: 0.123 ug/L  
 RT: 3.912 min Scan# 891  
 Delta R.T. 0.010 min  
 Lab File: VV026856.D  
 Acq: 20 Jul 2022 18:21

Instrument :  
 MSVOA\_V  
 ClientSampleId :

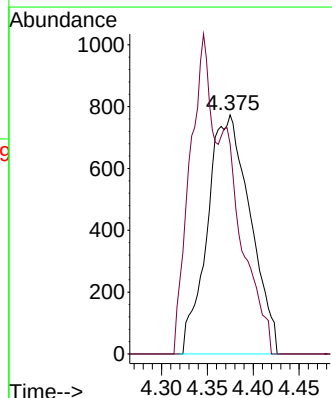
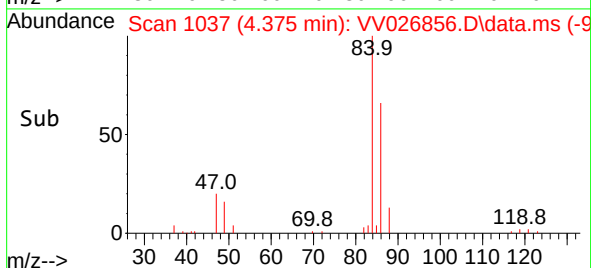
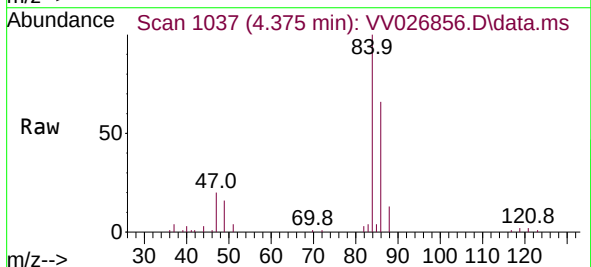


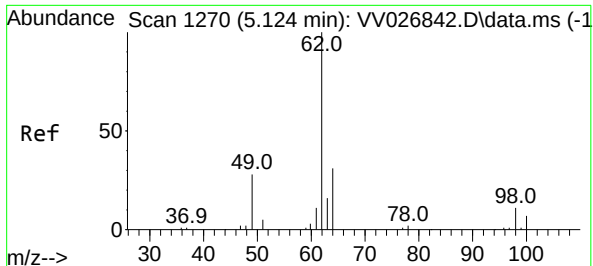
Tgt Ion: 96 Resp: 2235  
 Ion Ratio Lower Upper  
 96 100  
 61 93.8 83.9 155.9  
 68 0.0 0.0 0.0



#25  
 Chloroform  
 Concen: 0.073 ug/L  
 RT: 4.375 min Scan# 1037  
 Delta R.T. 0.010 min  
 Lab File: VV026856.D  
 Acq: 20 Jul 2022 18:21

Tgt Ion: 83 Resp: 2513  
 Ion Ratio Lower Upper  
 83 100  
 85 87.8 45.7 84.9#





#27

1,2-Dichloroethane

Concen: 0.125 ug/L

RT: 5.146 min Scan# 1

Delta R.T. 0.022 min

Lab File: VV026856.D

Acq: 20 Jul 2022 18:21

Instrument :

MSVOA\_V

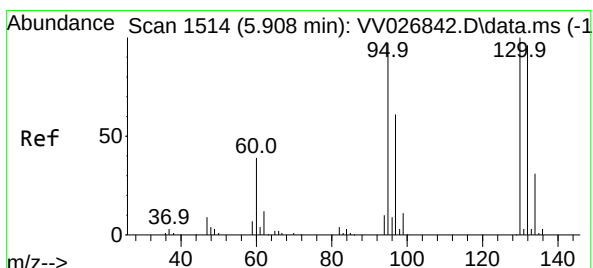
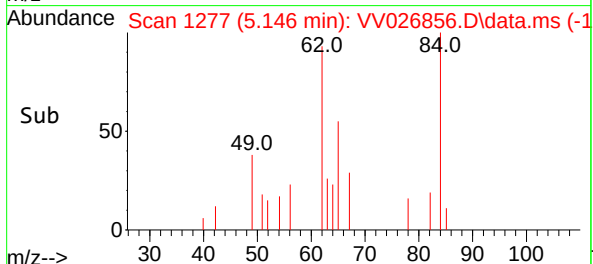
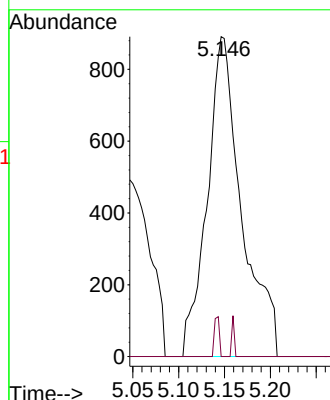
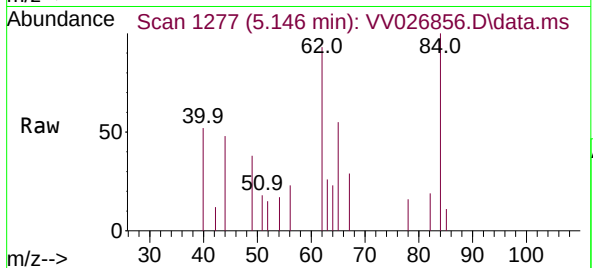
ClientSampleId :

Tgt Ion: 62 Resp: 2326

Ion Ratio Lower Upper

62 100

98 0.0 8.3 12.5#



#34

Trichloroethene

Concen: 0.432 ug/L

RT: 5.921 min Scan# 1518

Delta R.T. 0.013 min

Lab File: VV026856.D

Acq: 20 Jul 2022 18:21

Tgt Ion: 95 Resp: 8157

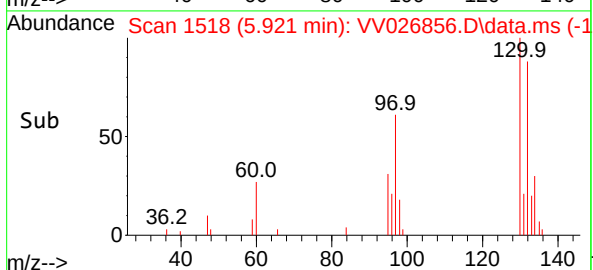
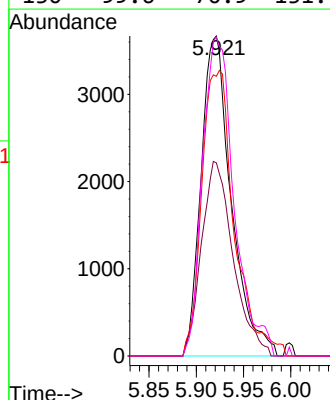
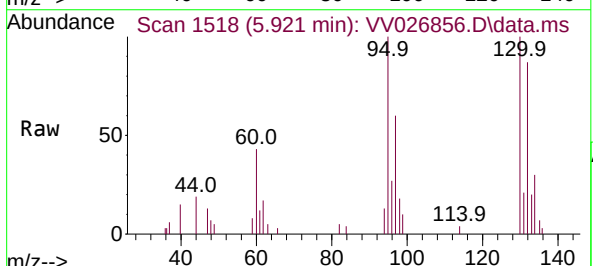
Ion Ratio Lower Upper

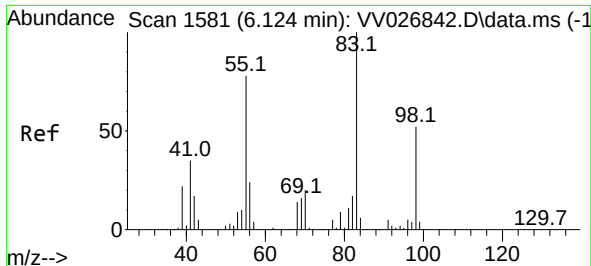
95 100

97 60.4 44.6 82.8

132 87.4 70.2 130.4

130 99.6 70.9 131.7

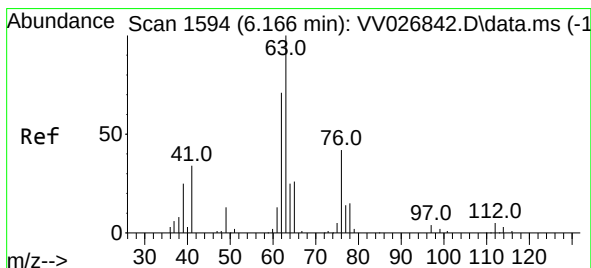
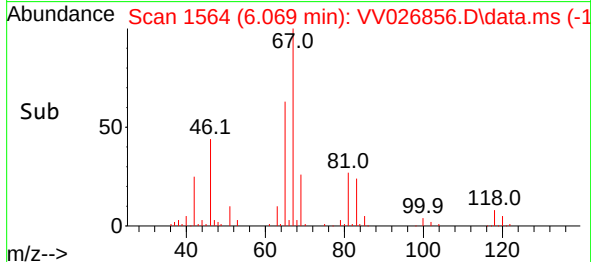
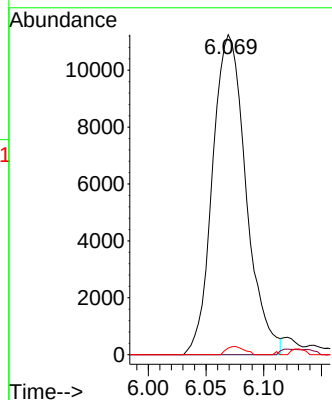
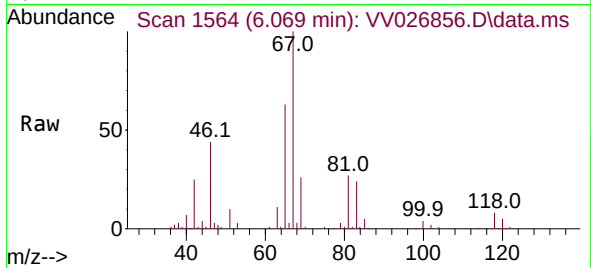




#35  
Methylcyclohexane  
Concen: 0.788 ug/L  
RT: 6.069 min Scan# 1564  
Delta R.T. -0.055 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

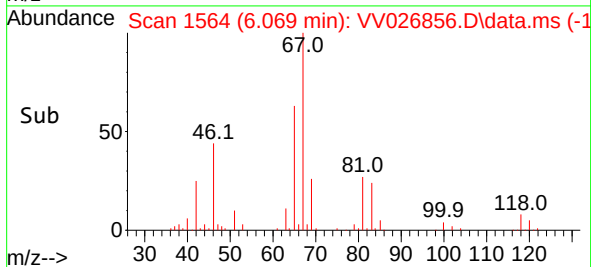
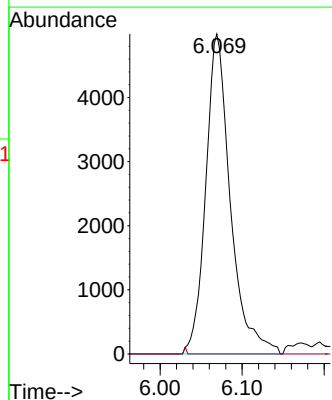
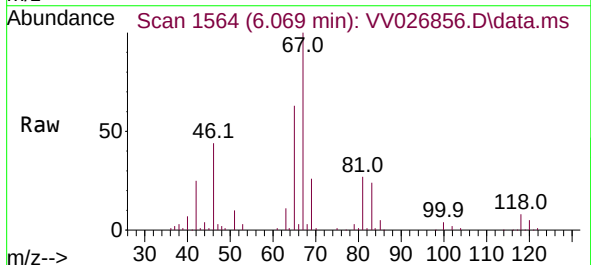
Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 83 Resp: 22727  
Ion Ratio Lower Upper  
83 100  
55 0.0 59.5 89.3#  
98 1.3 38.3 57.5#

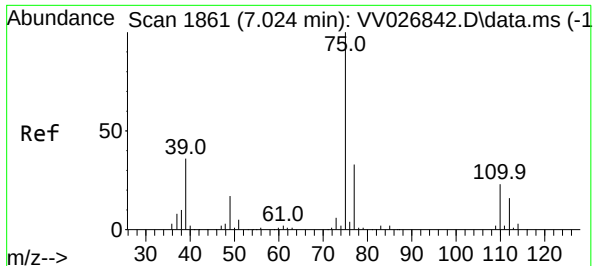


#37  
1,2-Dichloropropane  
Concen: 0.566 ug/L  
RT: 6.069 min Scan# 1564  
Delta R.T. -0.096 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

Tgt Ion: 63 Resp: 10403  
Ion Ratio Lower Upper  
63 100  
112 0.2 4.2 6.2#







#39

cis-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 6.986 min Scan# 11

Delta R.T. -0.039 min

Lab File: VV026856.D

Acq: 20 Jul 2022 18:21

Instrument :

MSVOA\_V

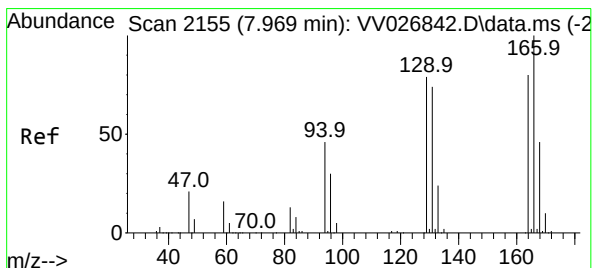
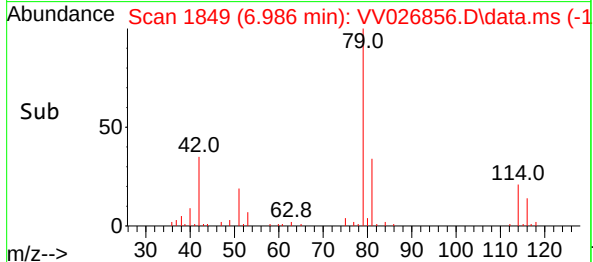
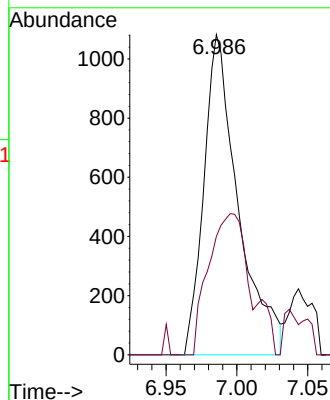
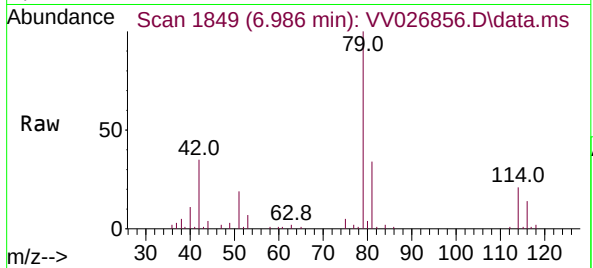
ClientSampleId :

Tgt Ion: 75 Resp: 1821

Ion Ratio Lower Upper

75 100

77 37.0 21.4 39.8



#47

Tetrachloroethene

Concen: 0.801 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. 0.006 min

Lab File: VV026856.D

Acq: 20 Jul 2022 18:21

Tgt Ion:164 Resp: 11871

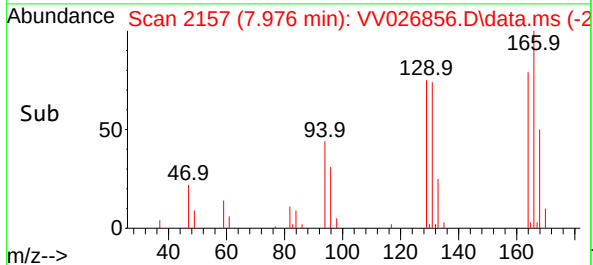
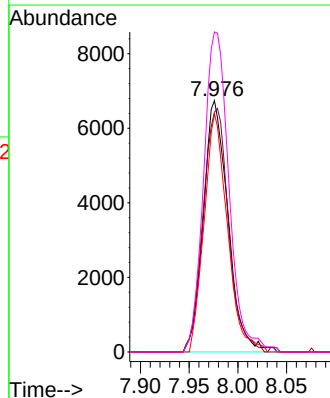
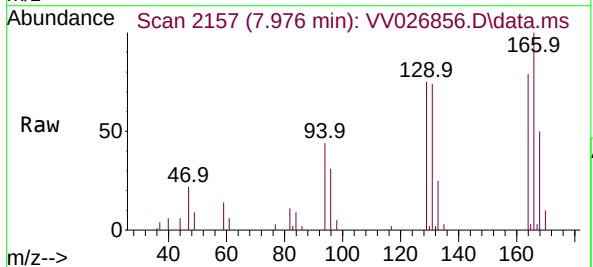
Ion Ratio Lower Upper

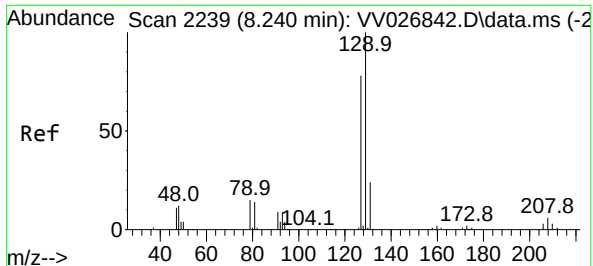
164 100

129 95.4 67.8 125.8

131 94.8 65.9 122.5

166 127.3 88.8 164.8





#49

Dibromochloromethane

Concen: 0.765 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.260 min

Lab File: VV026856.D

Acq: 20 Jul 2022 18:21

Instrument :

MSVOA\_V

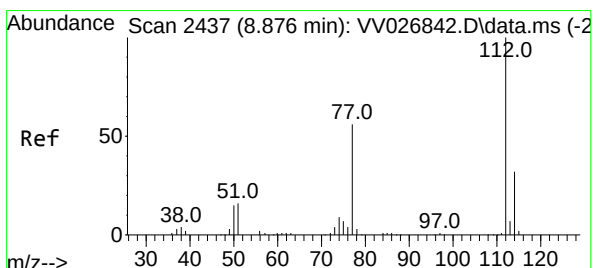
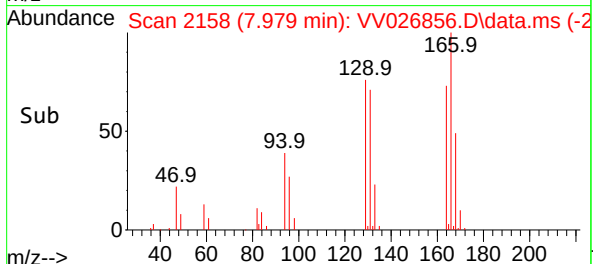
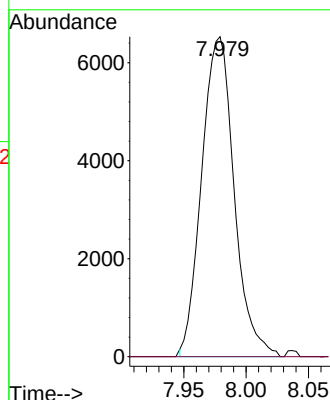
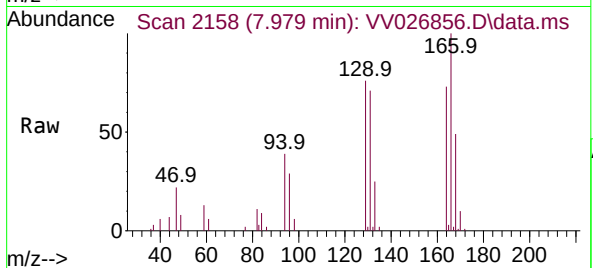
ClientSampleId :

Tgt Ion:129 Resp: 11849

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#



#51

Chlorobenzene

Concen: 0.044 ug/L

RT: 8.892 min Scan# 2442

Delta R.T. 0.016 min

Lab File: VV026856.D

Acq: 20 Jul 2022 18:21

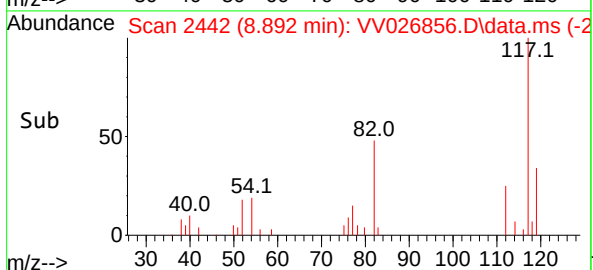
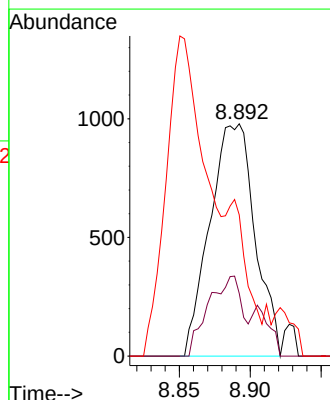
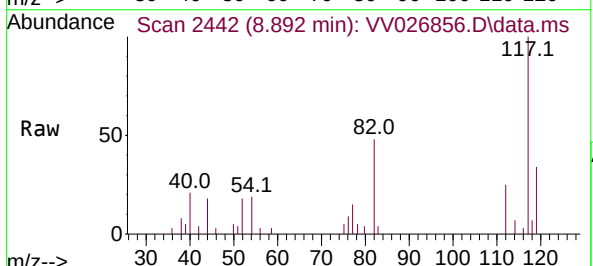
Tgt Ion:112 Resp: 2169

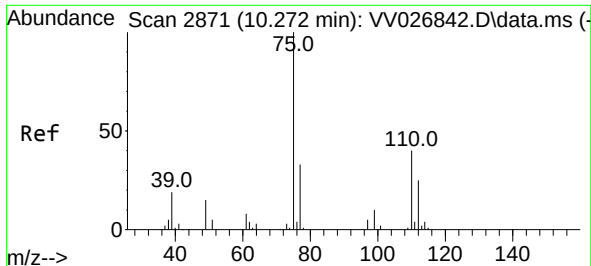
Ion Ratio Lower Upper

112 100

114 27.0 22.7 42.1

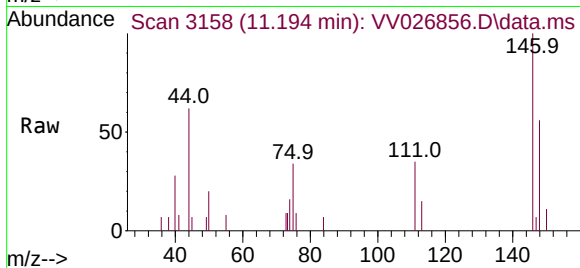
77 60.8 46.6 70.0



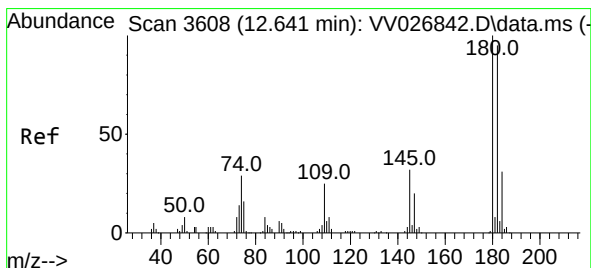
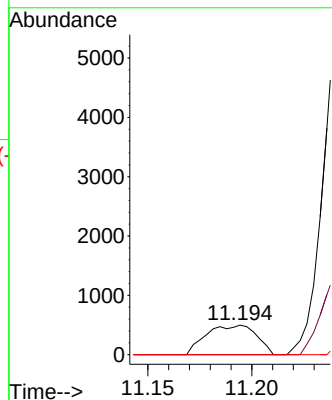
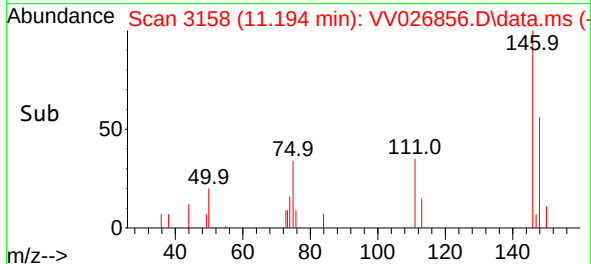


#61  
1,2,3-Trichloropropane  
Concen: 0.092 ug/L  
RT: 11.194 min Scan# 3158  
Delta R.T. 0.923 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

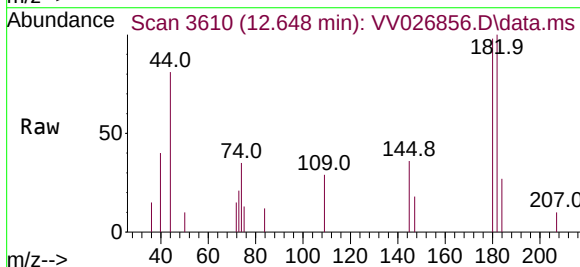
Instrument :  
MSVOA\_V  
ClientSampleId :



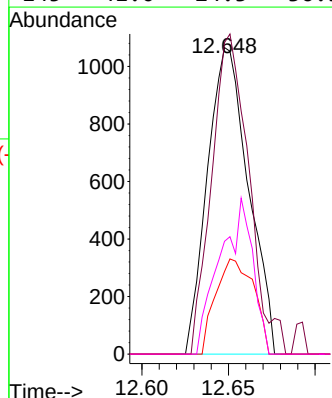
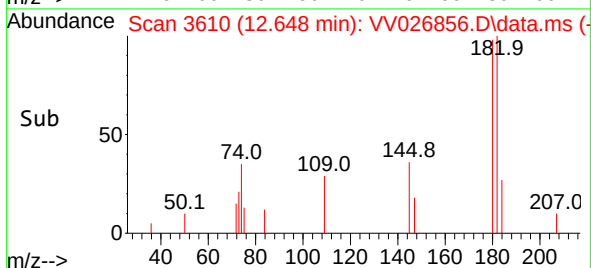
Tgt Ion: 75 Resp: 835  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.0#  
110 0.0 31.8 47.6#

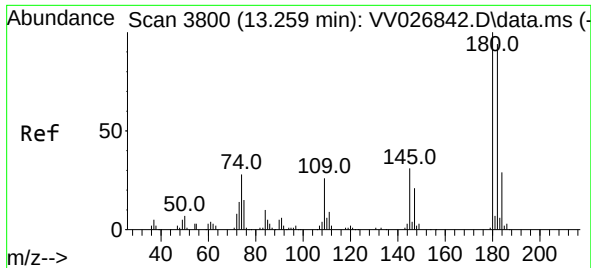


#69  
1,3,5-Trichlorobenzene  
Concen: 0.083 ug/L  
RT: 12.648 min Scan# 3610  
Delta R.T. 0.006 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21



Tgt Ion: 180 Resp: 1758  
Ion Ratio Lower Upper  
180 100  
182 94.7 74.0 111.0  
184 28.7 23.1 34.7  
145 41.0 24.3 36.5#

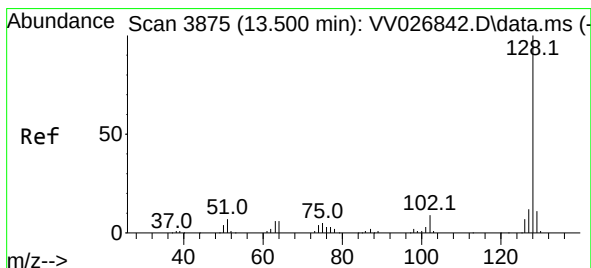
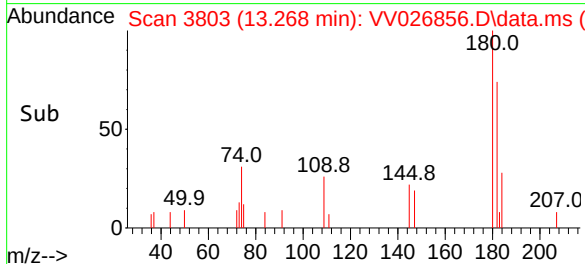
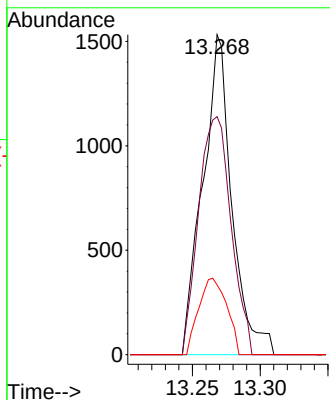
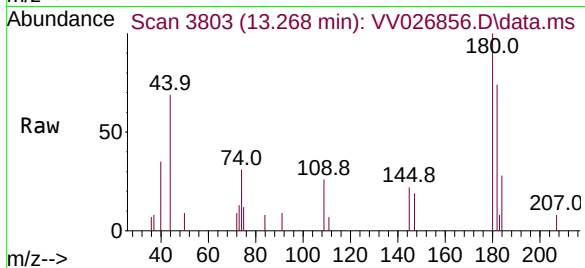




#70  
1,2,4-trichlorobenzene  
Concen: 0.142 ug/L  
RT: 13.268 min Scan# 3803  
Delta R.T. 0.010 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

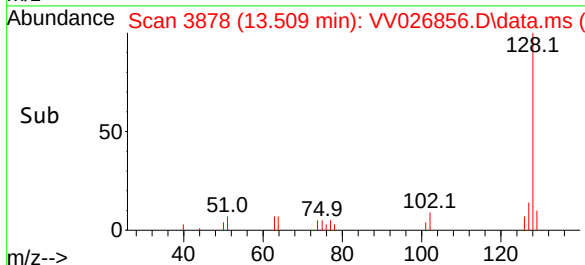
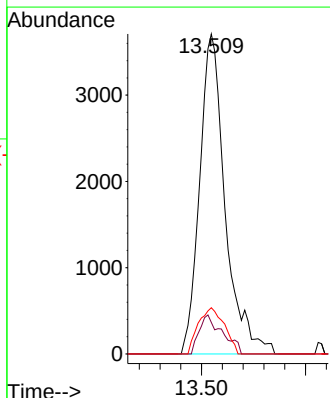
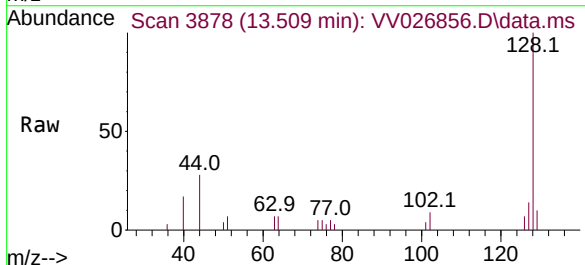
Instrument :  
MSVOA\_V  
ClientSampleId :

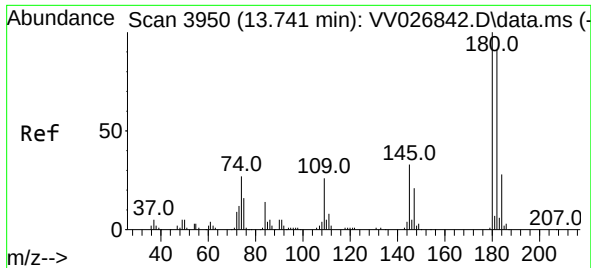
Tgt Ion:180 Resp: 2291  
Ion Ratio Lower Upper  
180 100  
182 82.8 74.7 112.1  
145 23.0 24.7 37.1#



#71  
Naphthalene  
Concen: 0.236 ug/L  
RT: 13.509 min Scan# 3878  
Delta R.T. 0.010 min  
Lab File: VV026856.D  
Acq: 20 Jul 2022 18:21

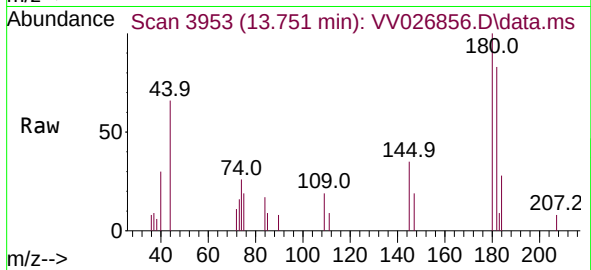
Tgt Ion:128 Resp: 6327  
Ion Ratio Lower Upper  
128 100  
129 11.1 8.4 12.6  
127 14.7 10.7 16.1





#72  
 1,2,3-Trichlorobenzene  
 Concen: 0.177 ug/L  
 RT: 13.751 min Scan# 3953  
 Delta R.T. 0.010 min  
 Lab File: VV026856.D  
 Acq: 20 Jul 2022 18:21

Instrument :  
 MSVOA\_V  
 ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 2665  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 88.4  | 75.0  | 112.4 |
| 145       | 30.1  | 26.0  | 39.0  |

