

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW083022\  
 Data File : VW027605.D  
 Acq On : 30 Aug 2022 23:26  
 Operator : SY/MD  
 Sample : N4368-06DL 5X  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 31 07:12:33 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR081922WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Aug 31 04:45:39 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.616  | 114   | 159881   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.850  | 117   | 149741   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249 | 152   | 60557    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.304  | 65    | 46394    | 4.077    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 81.600%  |
| 7) Chloroethane-d5            | 1.564  | 69    | 38497    | 4.623    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 92.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.178  | 63    | 4079     | 0.154    | ug/L   | 0.07     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 3.000%#  |
| 20) 2-Butanone-d5             | 3.889  | 46    | 68152    | 48.127   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 96.260%  |
| 24) Chloroform-d              | 4.346  | 84    | 100190   | 4.404    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 88.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.030  | 65    | 47714    | 4.848    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 97.000%  |
| 32) Benzene-d6                | 5.047  | 84    | 182413   | 4.398    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 88.000%  |
| 36) 1,2-Dichloropropane-d6    | 6.069  | 67    | 59642    | 4.946    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 99.000%  |
| 41) Toluene-d8                | 7.317  | 98    | 137992   | 3.685    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 73.600%  |
| 43) trans-1,3-Dichloroprop... | 7.628  | 79    | 15593    | 3.777    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 75.600%  |
| 46) 2-Hexanone-d5             | 8.091  | 63    | 68609    | 50.481   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 100.960% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217 | 84    | 38418    | 5.003    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 100.000% |
| 66) 1,2-Dichlorobenzene-d4    | 11.625 | 152   | 44660    | 4.975    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 99.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.240  | 50    | 1379     | 0.093    | ug/L # | 26       |
| 5) Vinyl chloride             | 1.310  | 62    | 2193     | 0.147    | ug/L # | 1        |
| 6) Bromomethane               | 1.523  | 94    | 1296     | 0.176    | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.108  | 96    | 1042     | 0.086    | ug/L # | 1        |
| 13) Acetone                   | 2.127  | 43    | 10352    | 7.655    | ug/L   | 55       |
| 15) Methyl Acetate            | 2.494  | 43    | 76760    | 20.496   | ug/L # | 56       |
| 16) Methylene chloride        | 2.503  | 84    | 30433    | 1.669    | ug/L   | 93       |
| 17) Methyl tert-butyl Ether   | 2.770  | 73    | 15023    | 0.600    | ug/L # | 1        |
| 18) trans-1,2-Dichloroethene  | 2.757  | 96    | 84557    | 6.785    | ug/L   | 97       |
| 21) 2-Butanone                | 3.879  | 43    | 4508     | 2.505    | ug/L # | 75       |
| 22) cis-1,2-Dichloroethene    | 3.908  | 96    | 60397    | 4.548    | ug/L   | 97       |
| 25) Chloroform                | 4.381  | 83    | 2051     | 0.073    | ug/L   | 87       |
| 30) Cyclohexane               | 4.677  | 56    | 2293     | 0.130    | ug/L   | 94       |
| 33) Benzene                   | 5.101  | 78    | 4013     | 0.081    | ug/L   | 100      |
| 34) Trichloroethene           | 5.915  | 95    | 21021    | 1.604    | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.069  | 83    | 16350    | 0.887    | ug/L # | 15       |
| 37) 1,2-Dichloropropane       | 6.072  | 63    | 7177     | 0.541    | ug/L # | 86       |
| 44) trans-1,3-Dichloropropene | 7.632  | 75    | 1070     | 0.079    | ug/L # | 49       |
| 45) 1,1,2-Trichloroethane     | 7.783  | 97    | 1758     | 0.207    | ug/L # | 21       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV083022\  
Data File : VV027605.D  
Acq On : 30 Aug 2022 23:26  
Operator : SY/MD  
Sample : N4368-06DL 5X  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 30 Sample Multiplier: 1

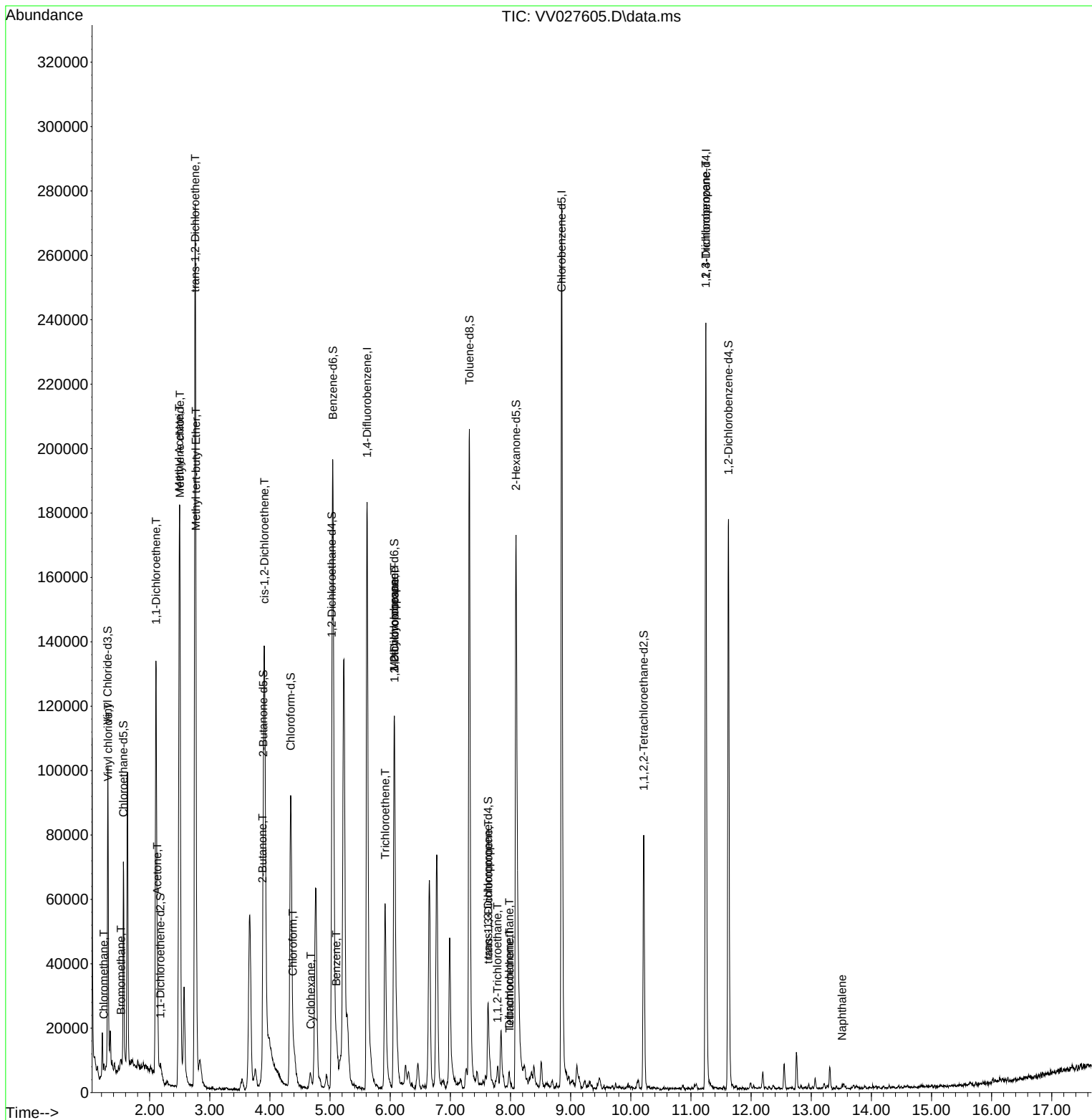
Instrument :  
MSVOA\_V  
ClientSampleId :

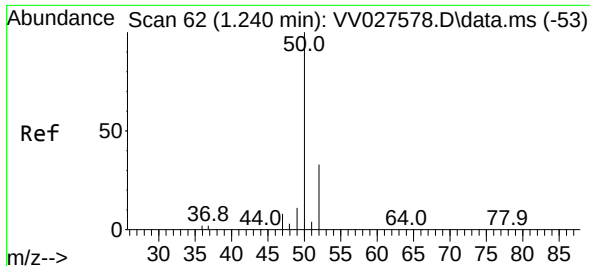
Quant Time: Aug 31 07:12:33 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR081922WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Aug 31 04:45:39 2022  
Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 47) Tetrachloroethene      | 7.985  | 164  | 627      | 0.061 | ug/L   | 90       |
| 49) Dibromochloromethane   | 7.982  | 129  | 863      | 0.083 | ug/L # | 9        |
| 61) 1,2,3-Trichloropropane | 11.246 | 75   | 7801     | 1.468 | ug/L # | 68       |
| 71) Naphthalene            | 13.512 | 128  | 1231     | 0.084 | ug/L # | 76       |

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

Quant Time: Aug 31 07:12:33 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR081922WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Aug 31 04:45:39 2022  
Response via : Initial Calibration

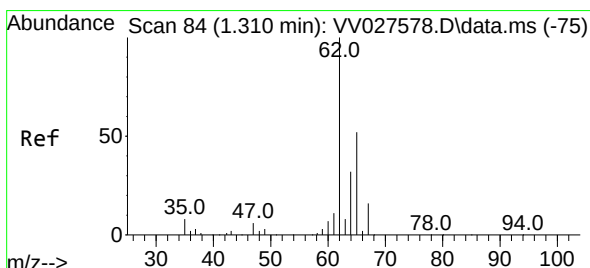
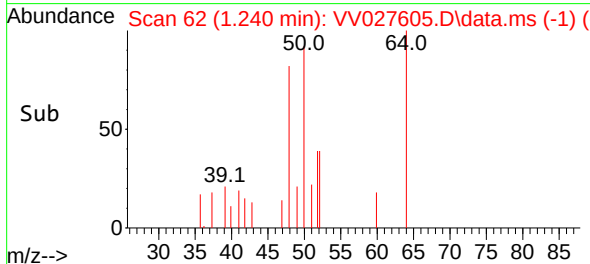
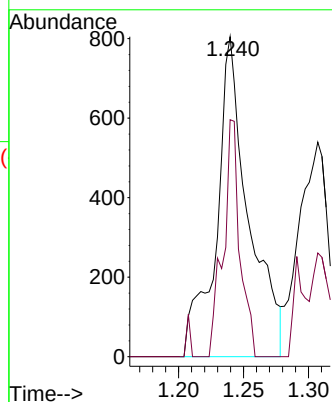
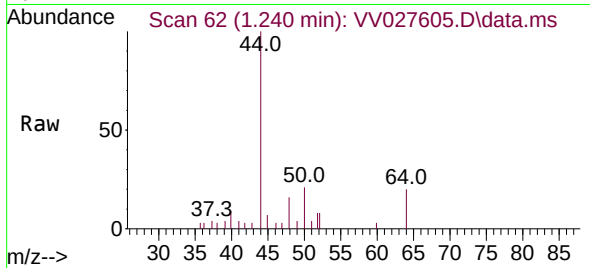




#3  
Chloromethane  
Concen: 0.093 ug/L  
RT: 1.240 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

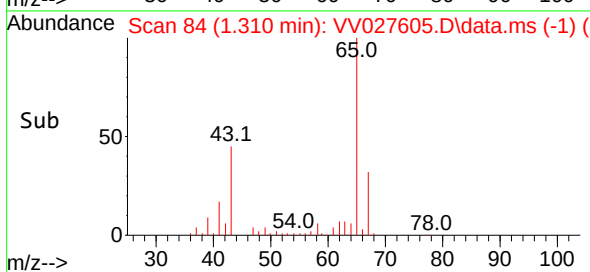
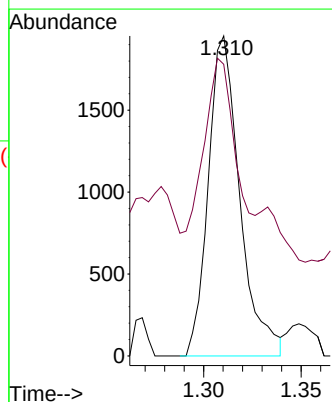
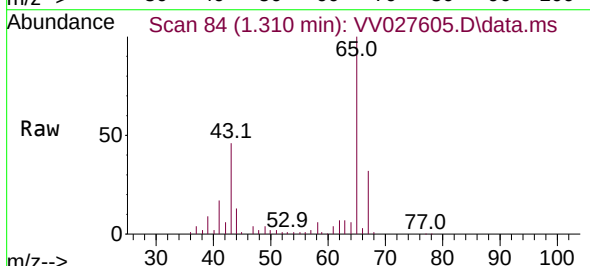
Instrument :  
MSVOA\_V  
ClientSampleId :

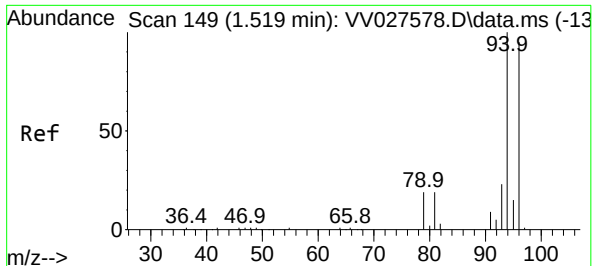
Tgt Ion: 50 Resp: 1379  
Ion Ratio Lower Upper  
50 100  
52 74.0 22.8 42.4#



#5  
Vinyl chloride  
Concen: 0.147 ug/L  
RT: 1.310 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

Tgt Ion: 62 Resp: 2193  
Ion Ratio Lower Upper  
62 100  
64 91.1 22.6 42.0#

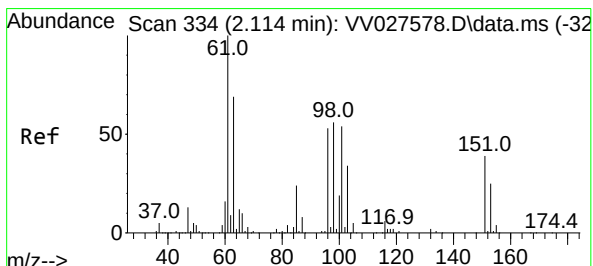
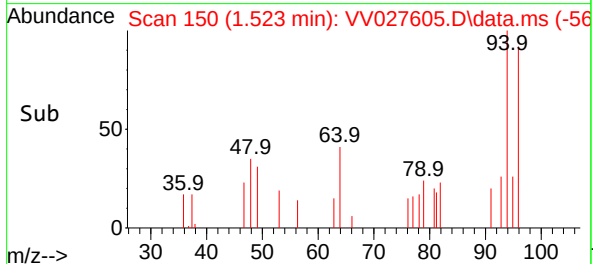
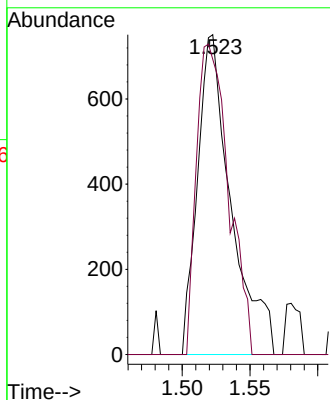
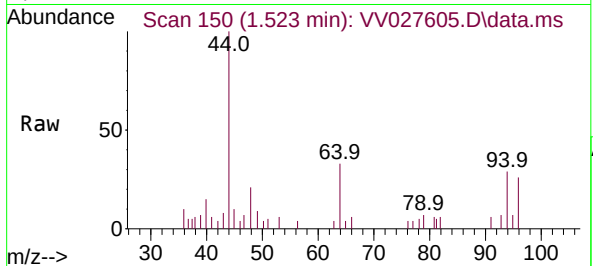




#6  
Bromomethane  
Concen: 0.176 ug/L  
RT: 1.523 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

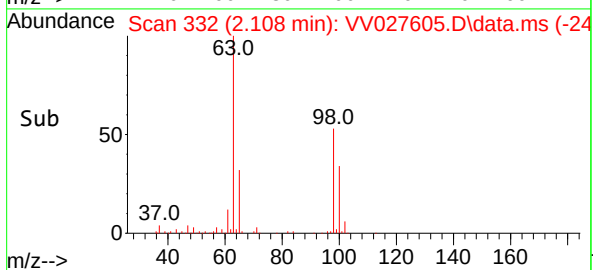
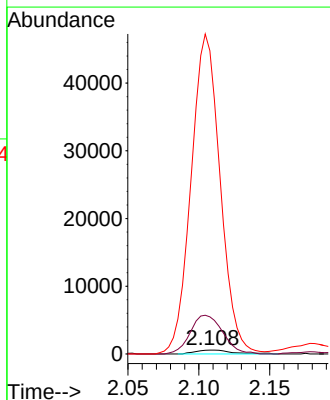
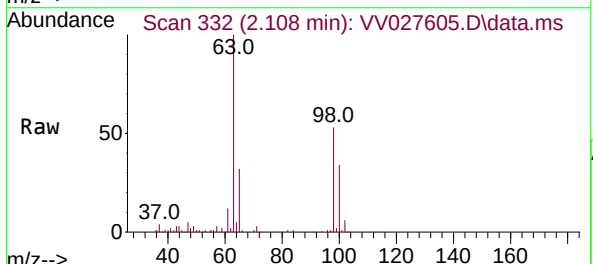
Instrument :  
MSVOA\_V  
ClientSampleId :

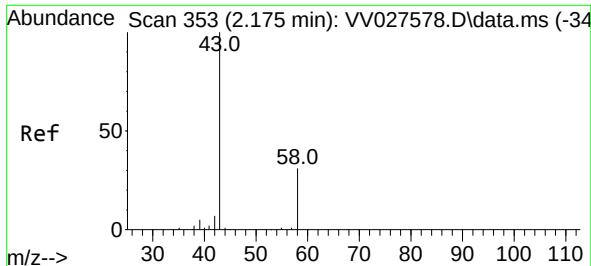
Tgt Ion: 94 Resp: 1296  
Ion Ratio Lower Upper  
94 100  
96 92.3 65.2 121.0



#12  
1,1-Dichloroethene  
Concen: 0.086 ug/L  
RT: 2.108 min Scan# 332  
Delta R.T. -0.006 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

Tgt Ion: 96 Resp: 1042  
Ion Ratio Lower Upper  
96 100  
61 953.6 130.2 241.8#  
63 7788.5 87.4 162.4#

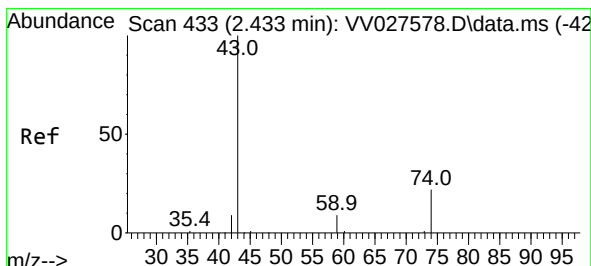
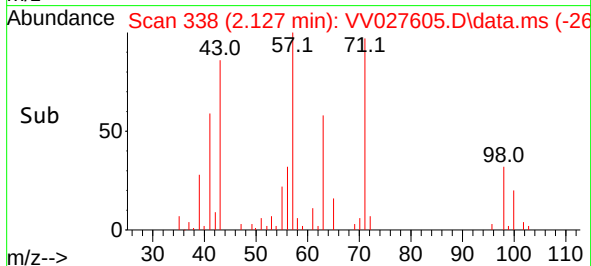
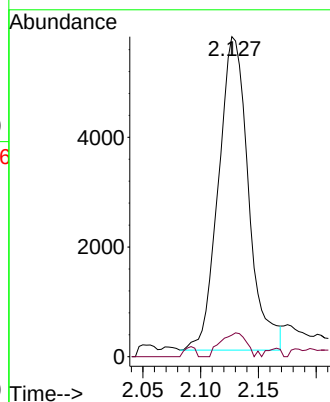
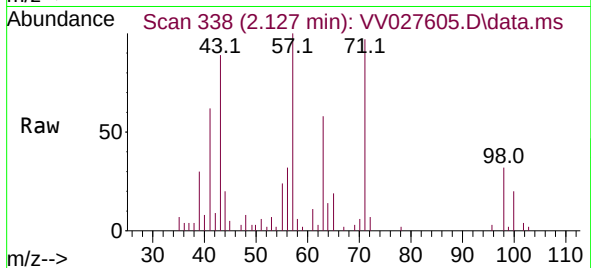




#13  
Acetone  
Concen: 7.655 ug/L  
RT: 2.127 min Scan# 31  
Delta R.T. -0.048 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

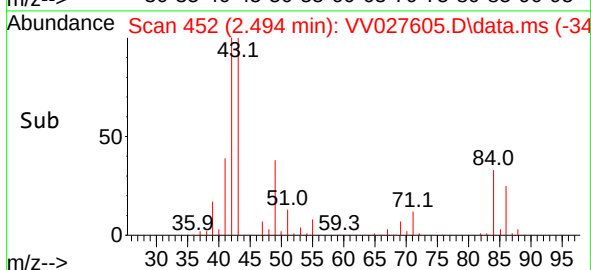
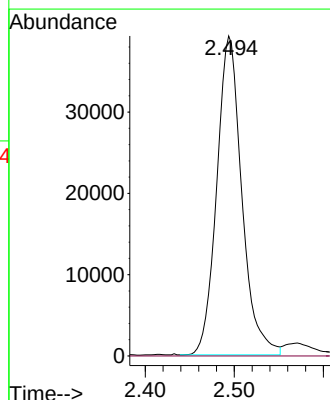
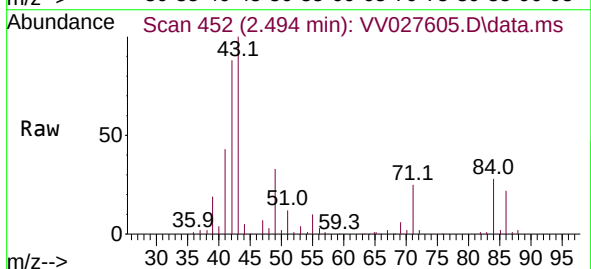
Instrument :  
MSVOA\_V  
ClientSampleId :

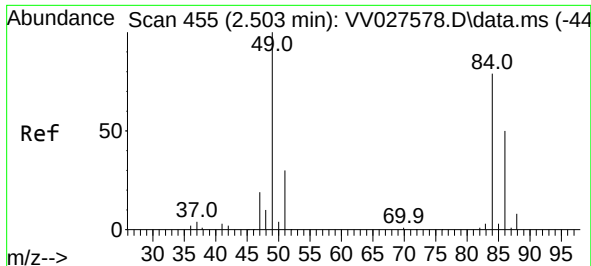
Tgt Ion: 43 Resp: 10352  
Ion Ratio Lower Upper  
43 100  
58 6.5 0.0 62.2



#15  
Methyl Acetate  
Concen: 20.496 ug/L  
RT: 2.494 min Scan# 452  
Delta R.T. 0.061 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

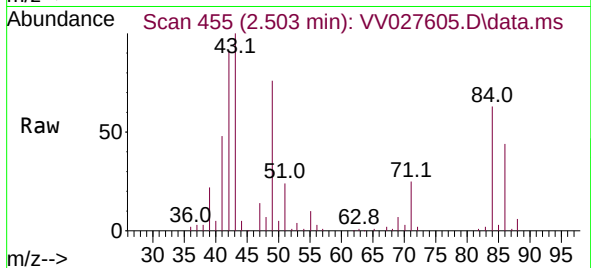
Tgt Ion: 43 Resp: 76760  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.3 24.5#



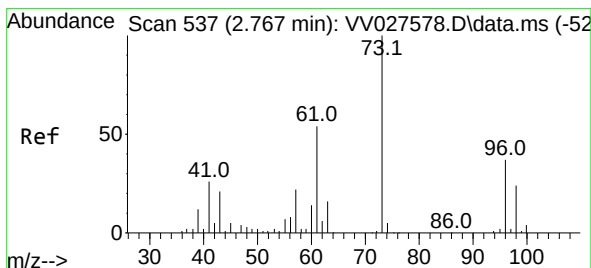
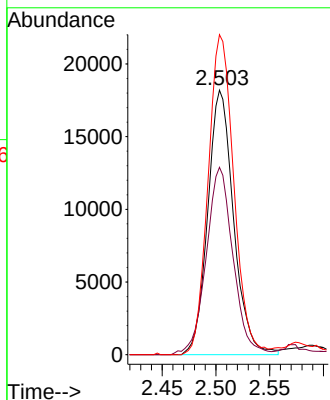
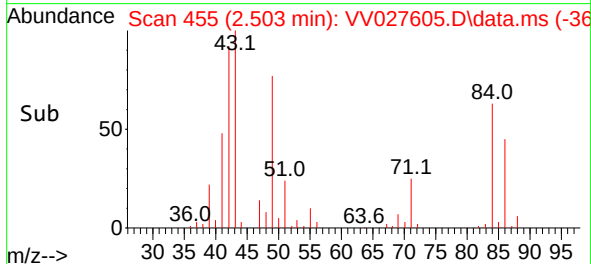


#16  
Methylene chloride  
Concen: 1.669 ug/L  
RT: 2.503 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

Instrument :  
MSVOA\_V  
ClientSampleId :

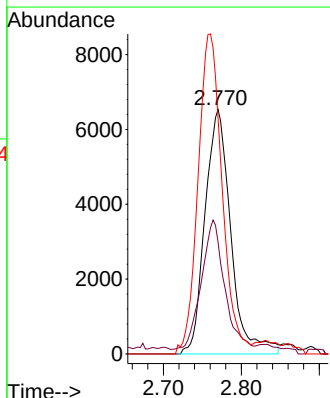
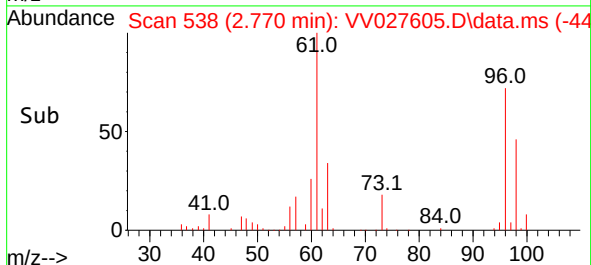
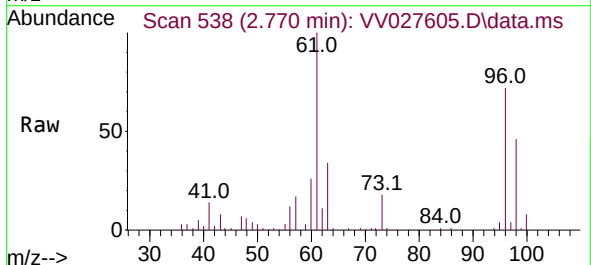


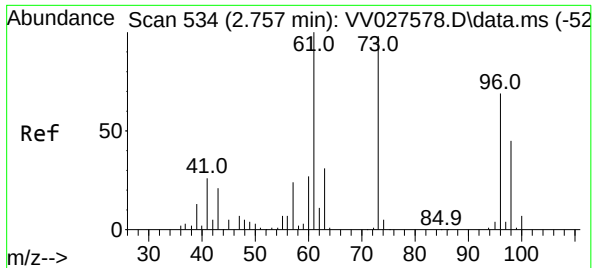
Tgt Ion: 84 Resp: 30433  
Ion Ratio Lower Upper  
84 100  
86 70.9 44.0 81.6  
49 121.0 89.4 166.0



#17  
Methyl tert-butyl Ether  
Concen: 0.600 ug/L  
RT: 2.770 min Scan# 538  
Delta R.T. 0.003 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

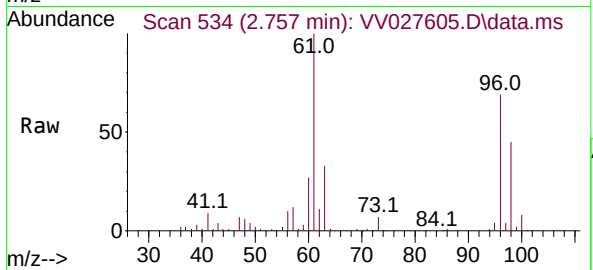
Tgt Ion: 73 Resp: 15023  
Ion Ratio Lower Upper  
73 100  
43 47.1 15.6 23.4#  
57 122.0 17.0 25.6#



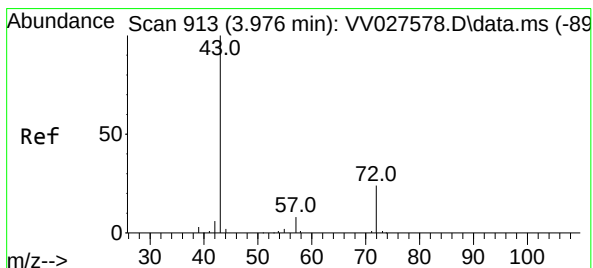
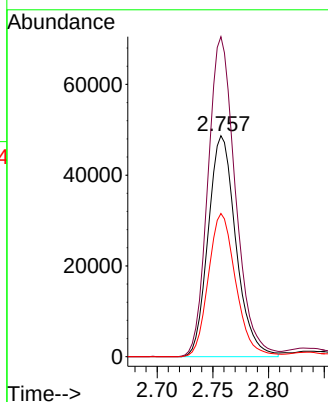
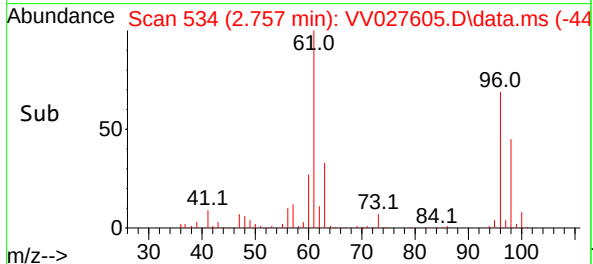


#18  
trans-1,2-Dichloroethene  
Concen: 6.785 ug/L  
RT: 2.757 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

Instrument :  
MSVOA\_V  
ClientSampleId :

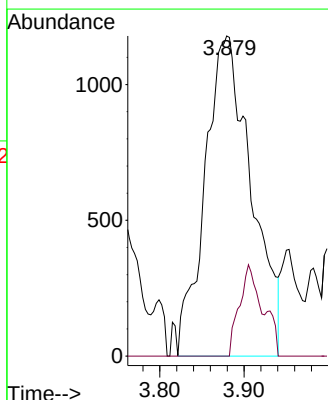
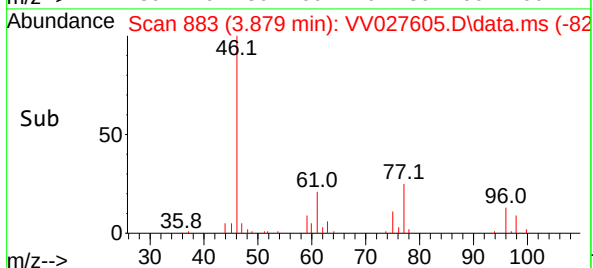
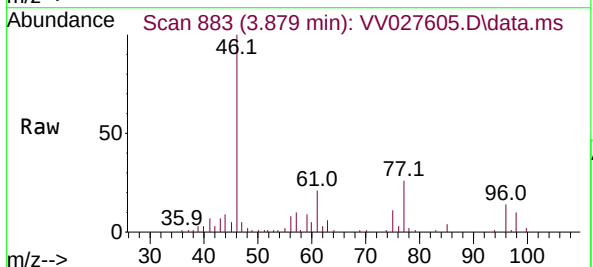


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 84557 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 144.8 | 97.6  | 181.4 |
| 98       | 64.8  | 45.9  | 85.3  |

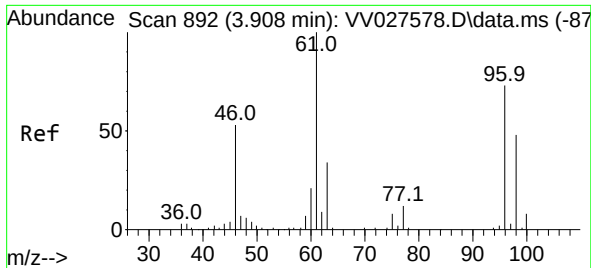


#21  
2-Butanone  
Concen: 2.505 ug/L  
RT: 3.879 min Scan# 883  
Delta R.T. -0.096 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4508  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 11.8  | 12.0  | 36.1# |

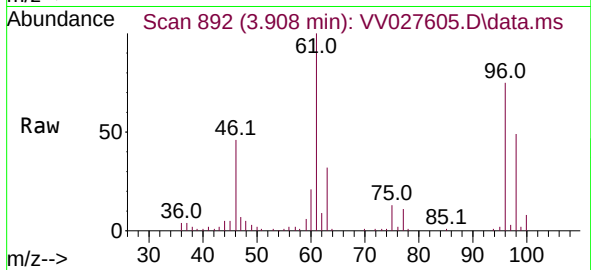






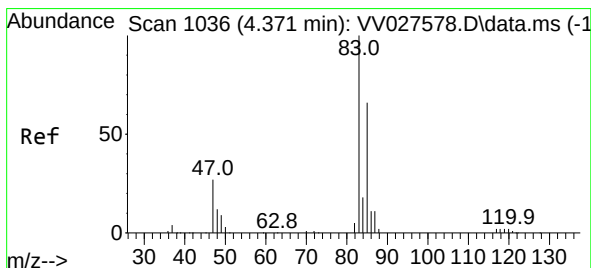
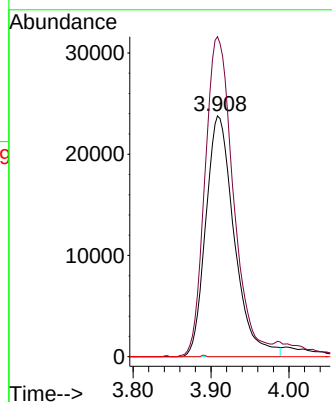
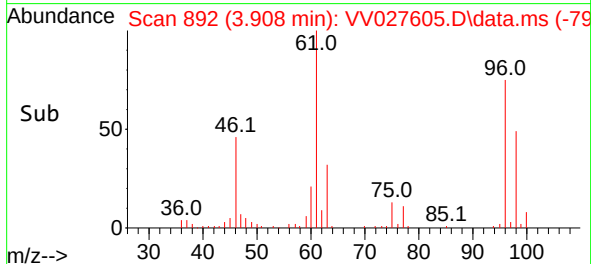
#22  
 cis-1,2-Dichloroethene  
 Concen: 4.548 ug/L  
 RT: 3.908 min Scan# 892  
 Delta R.T. -0.000 min  
 Lab File: VV027605.D  
 Acq: 30 Aug 2022 23:26

Instrument :  
 MSVOA\_V  
 ClientSampleId :

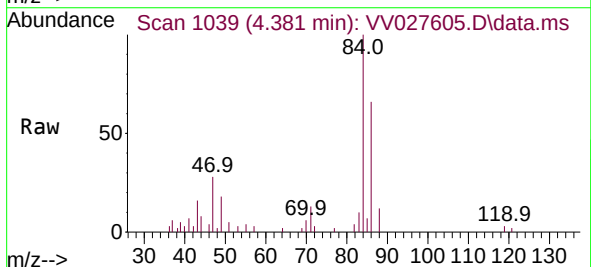


Tgt Ion: 96 Resp: 60397  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 132.9 | 90.6  | 168.2 |
| 68  | 0.0   | 0.0   | 0.0   |

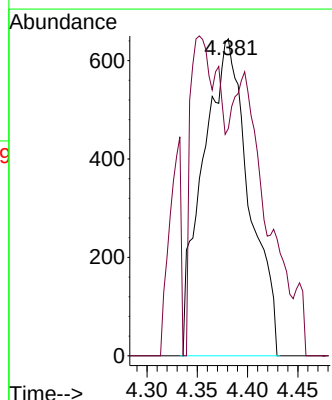
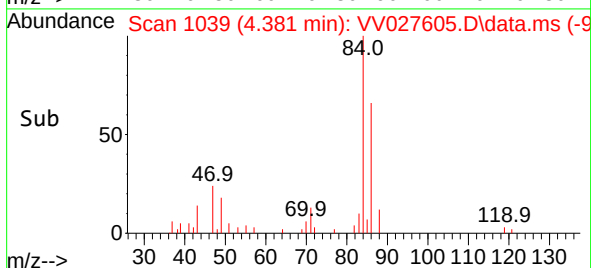


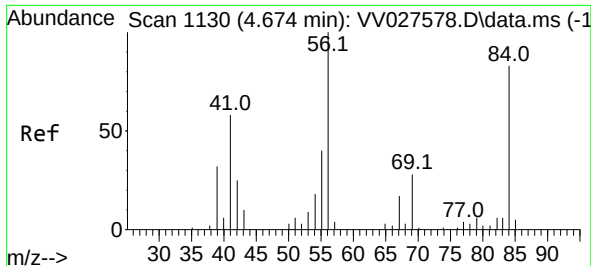
#25  
 Chloroform  
 Concen: 0.073 ug/L  
 RT: 4.381 min Scan# 1039  
 Delta R.T. 0.010 min  
 Lab File: VV027605.D  
 Acq: 30 Aug 2022 23:26



Tgt Ion: 83 Resp: 2051  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 71.7  | 43.3  | 80.5  |





#30

Cyclohexane

Concen: 0.130 ug/L

RT: 4.677 min Scan# 1131

Delta R.T. 0.003 min

Lab File: VV027605.D

Acq: 30 Aug 2022 23:26

Instrument :

MSVOA\_V

ClientSampleId :

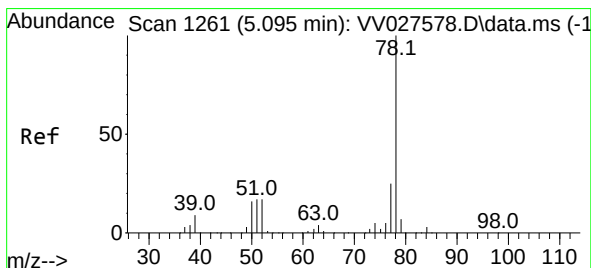
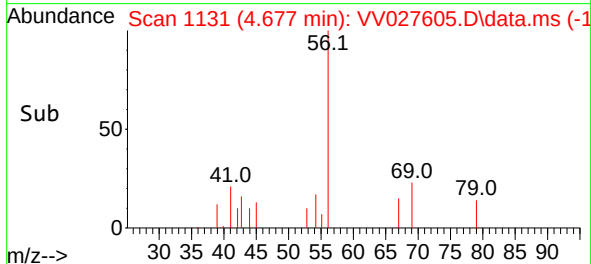
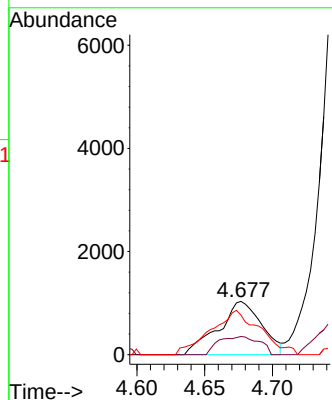
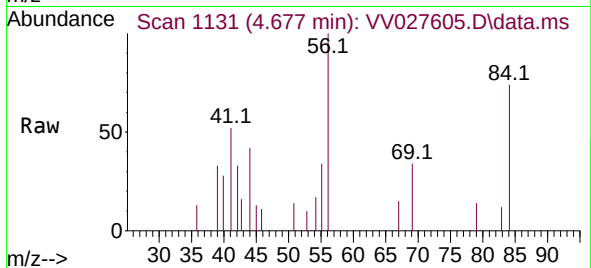
Tgt Ion: 56 Resp: 2293

Ion Ratio Lower Upper

56 100

69 32.1 25.4 38.0

84 94.8 69.7 104.5



#33

Benzene

Concen: 0.081 ug/L

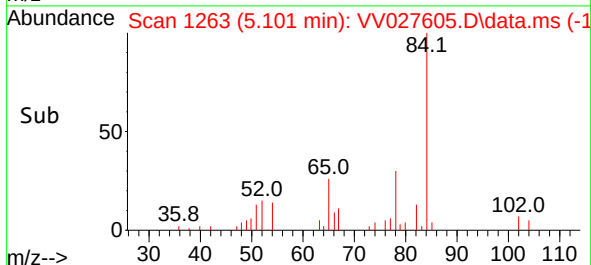
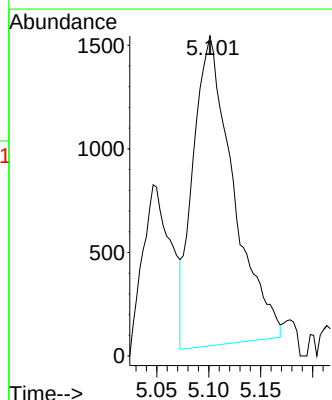
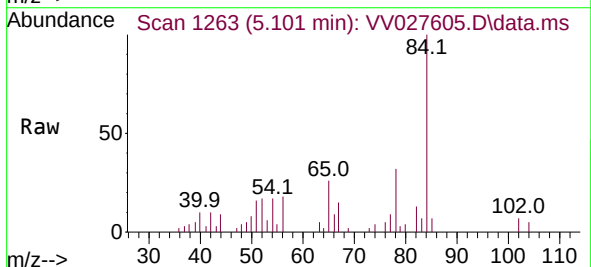
RT: 5.101 min Scan# 1263

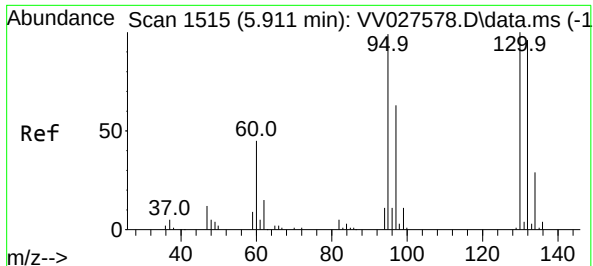
Delta R.T. 0.006 min

Lab File: VV027605.D

Acq: 30 Aug 2022 23:26

Tgt Ion: 78 Resp: 4013

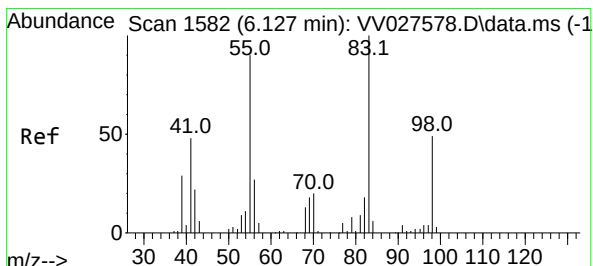
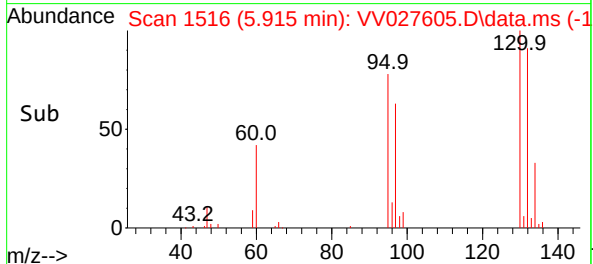
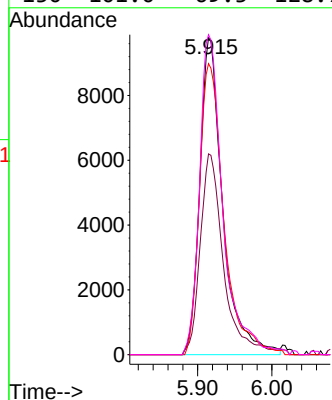
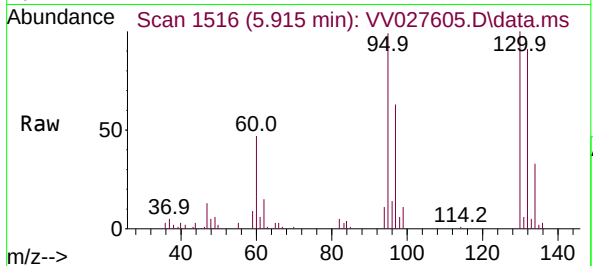




#34  
Trichloroethene  
Concen: 1.604 ug/L  
RT: 5.915 min Scan# 1515  
Delta R.T. 0.003 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

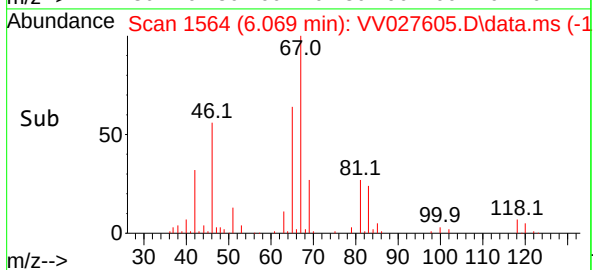
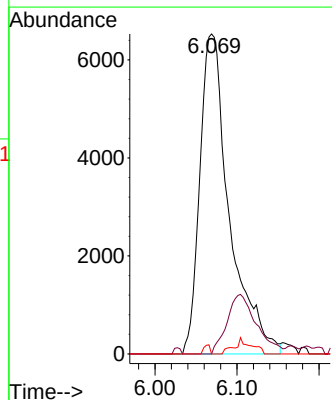
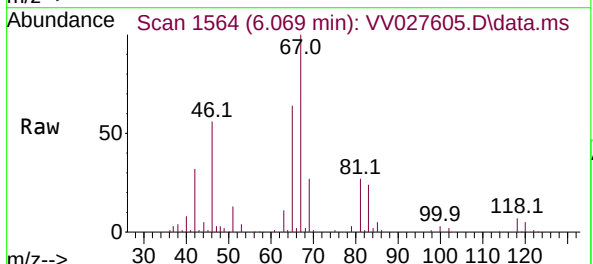
Instrument :  
MSVOA\_V  
ClientSampleId :

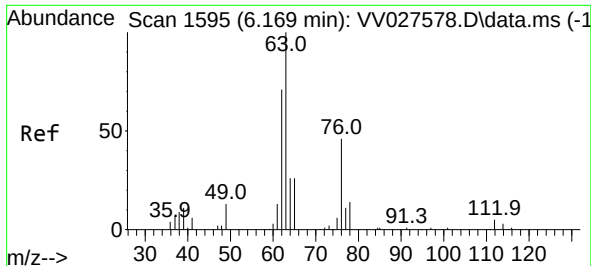
|             |             |
|-------------|-------------|
| Tgt Ion: 95 | Resp: 21021 |
| Ion Ratio   | Lower Upper |
| 95 100      |             |
| 97 63.4     | 45.0 83.6   |
| 132 91.8    | 65.7 121.9  |
| 130 101.0   | 69.3 128.7  |



#35  
Methylcyclohexane  
Concen: 0.887 ug/L  
RT: 6.069 min Scan# 1564  
Delta R.T. -0.058 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 16350 |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 55 0.0      | 68.2 102.4# |
| 98 0.6      | 39.0 58.4#  |





#37

1,2-Dichloropropane

Concen: 0.541 ug/L

RT: 6.072 min Scan# 1

Delta R.T. -0.096 min

Lab File: VV027605.D

Acq: 30 Aug 2022 23:26

Instrument :

MSVOA\_V

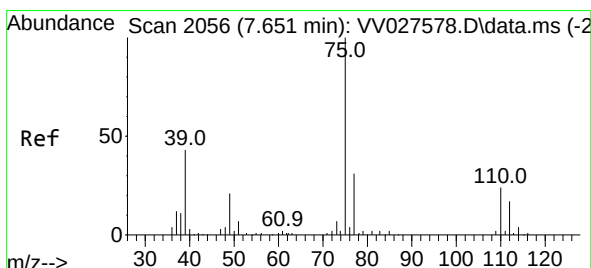
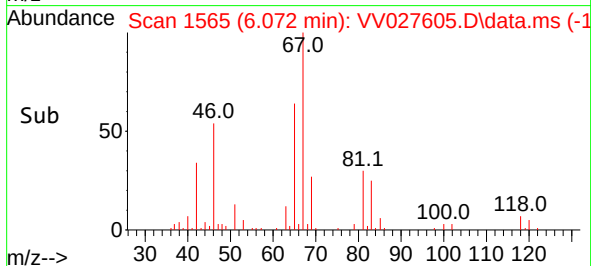
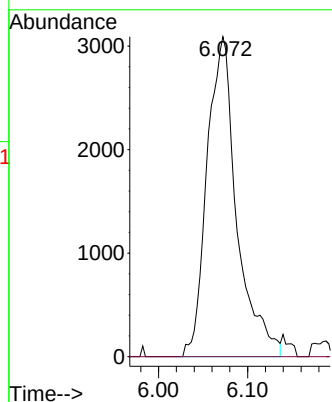
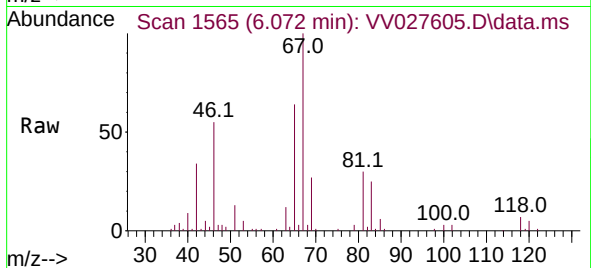
ClientSampleId :

Tgt Ion: 63 Resp: 7177

Ion Ratio Lower Upper

63 100

112 0.3 3.9 5.9#



#44

trans-1,3-Dichloropropene

Concen: 0.079 ug/L

RT: 7.632 min Scan# 2050

Delta R.T. -0.019 min

Lab File: VV027605.D

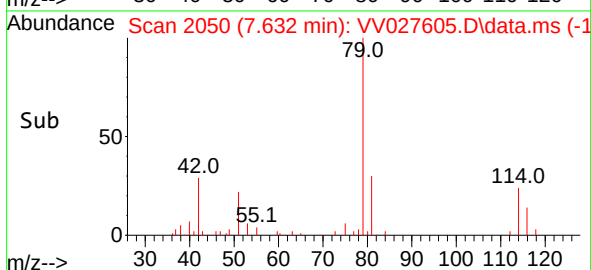
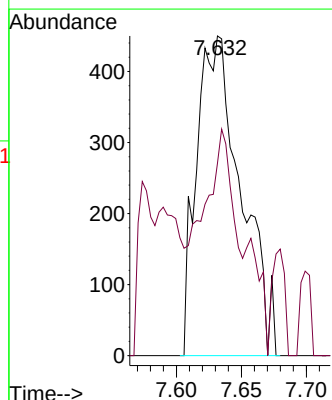
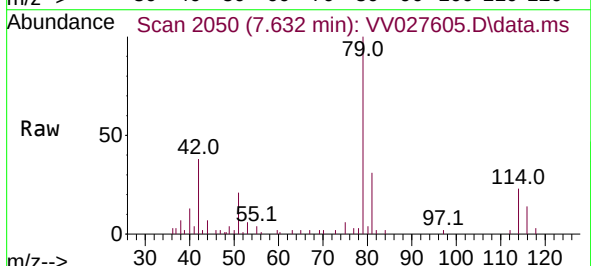
Acq: 30 Aug 2022 23:26

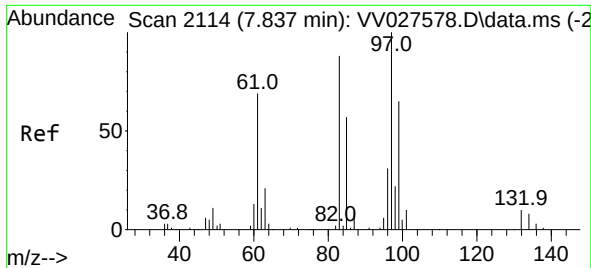
Tgt Ion: 75 Resp: 1070

Ion Ratio Lower Upper

75 100

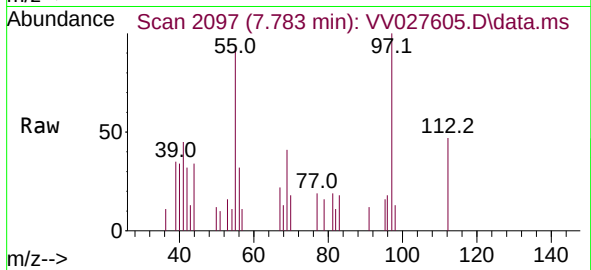
77 60.2 22.3 41.5#





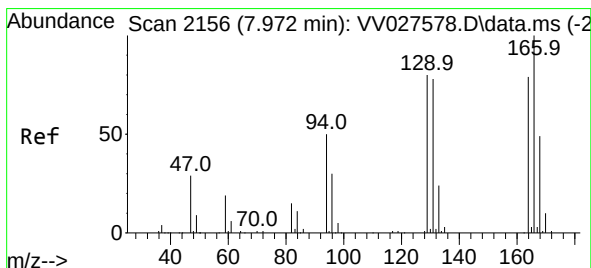
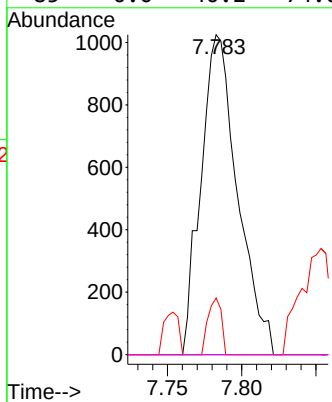
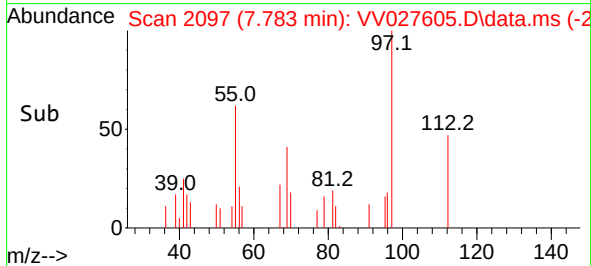
#45  
1,1,2-Trichloroethane  
Concen: 0.207 ug/L  
RT: 7.783 min Scan# 20  
Delta R.T. -0.055 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26

Instrument :  
MSVOA\_V  
ClientSampleId :

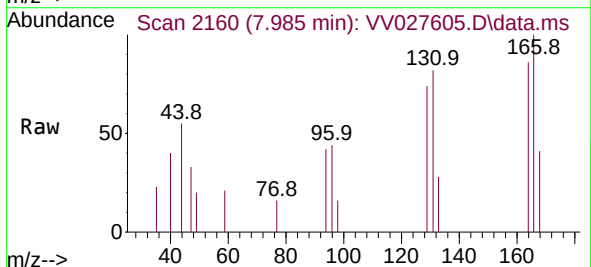


Tgt Ion: 97 Resp: 1758

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 97  | 100   |       |        |
| 99  | 0.0   | 46.1  | 85.7#  |
| 83  | 17.7  | 63.0  | 117.0# |
| 85  | 0.0   | 40.2  | 74.6#  |

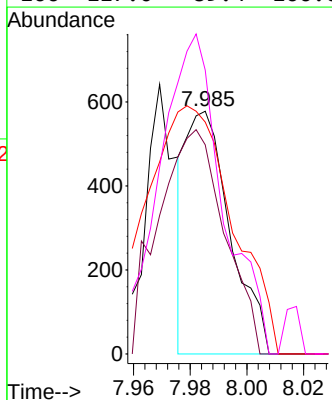
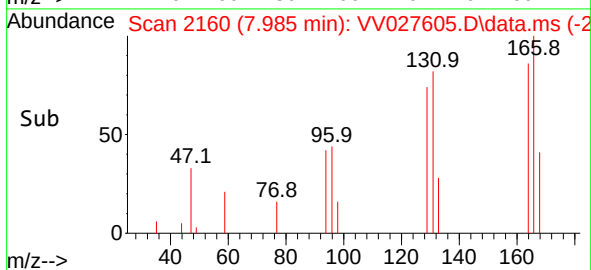


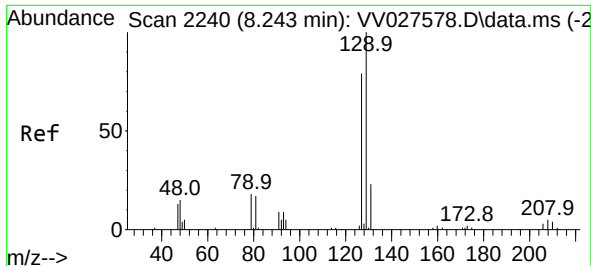
#47  
Tetrachloroethene  
Concen: 0.061 ug/L  
RT: 7.985 min Scan# 2160  
Delta R.T. 0.013 min  
Lab File: VV027605.D  
Acq: 30 Aug 2022 23:26



Tgt Ion: 164 Resp: 627

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 86.2  | 71.1  | 132.1 |
| 131 | 95.5  | 64.5  | 119.9 |
| 166 | 117.0 | 89.4  | 166.0 |





#49

Dibromochloromethane

Concen: 0.083 ug/L

RT: 7.982 min Scan# 2159

Delta R.T. -0.260 min

Lab File: VV027605.D

Acq: 30 Aug 2022 23:26

Instrument :

MSVOA\_V

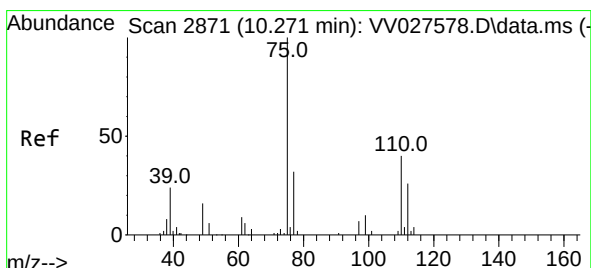
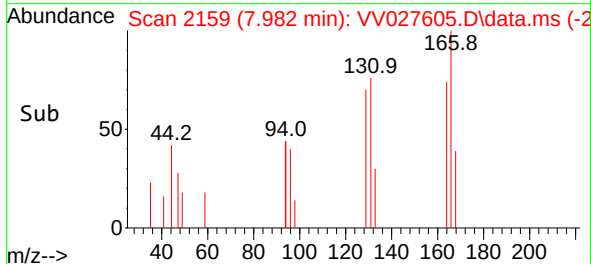
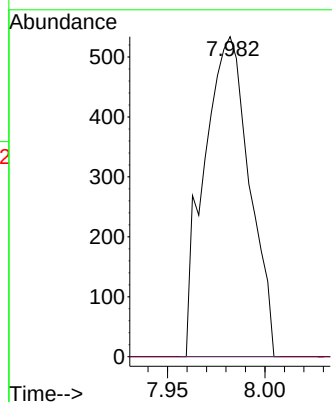
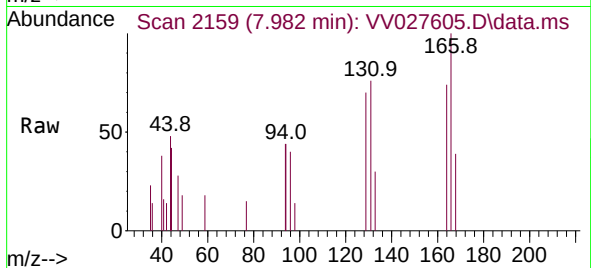
ClientSampleId :

Tgt Ion:129 Resp: 863

Ion Ratio Lower Upper

129 100

127 0.0 55.9 103.7#



#61

1,2,3-Trichloropropane

Concen: 1.468 ug/L

RT: 11.246 min Scan# 3174

Delta R.T. 0.974 min

Lab File: VV027605.D

Acq: 30 Aug 2022 23:26

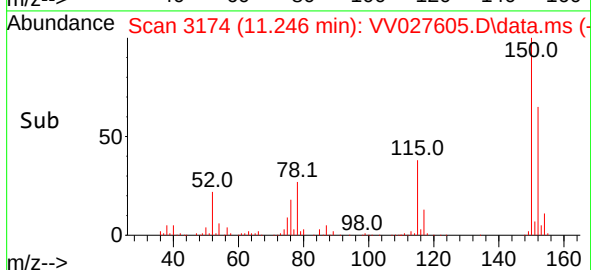
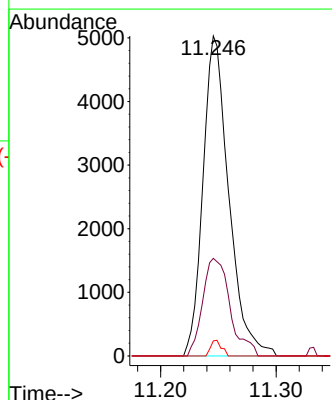
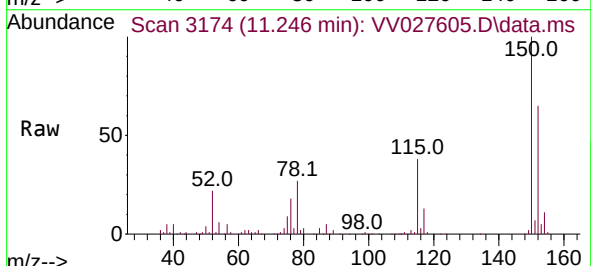
Tgt Ion: 75 Resp: 7801

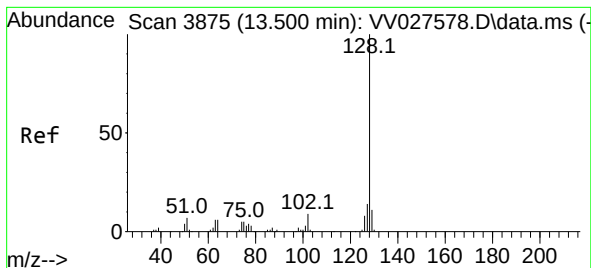
Ion Ratio Lower Upper

75 100

77 32.4 26.2 39.2

110 2.0 29.9 44.9#





#71

Naphthalene

Concen: 0.084 ug/L

RT: 13.512 min Scan# 3875

Delta R.T. 0.013 min

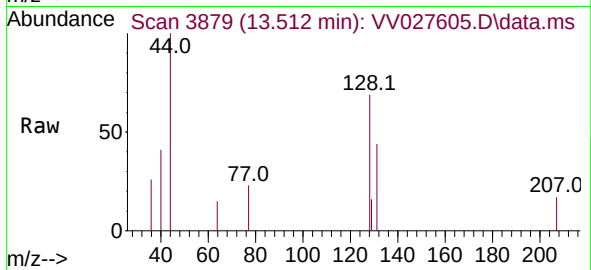
Lab File: VV027605.D

Acq: 30 Aug 2022 23:26

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:128 Resp: 1231

Ion Ratio Lower Upper

128 100

129 3.9 8.7 13.1#

127 1.6 10.4 15.6#

