

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121321\  
 Data File : VU046311.D  
 Acq On : 13 Dec 2021 13:37  
 Operator : SY/MD  
 Sample : M4971-13  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 14 02:34:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Dec 13 13:51:57 2021  
 Response via : Initial Calibration

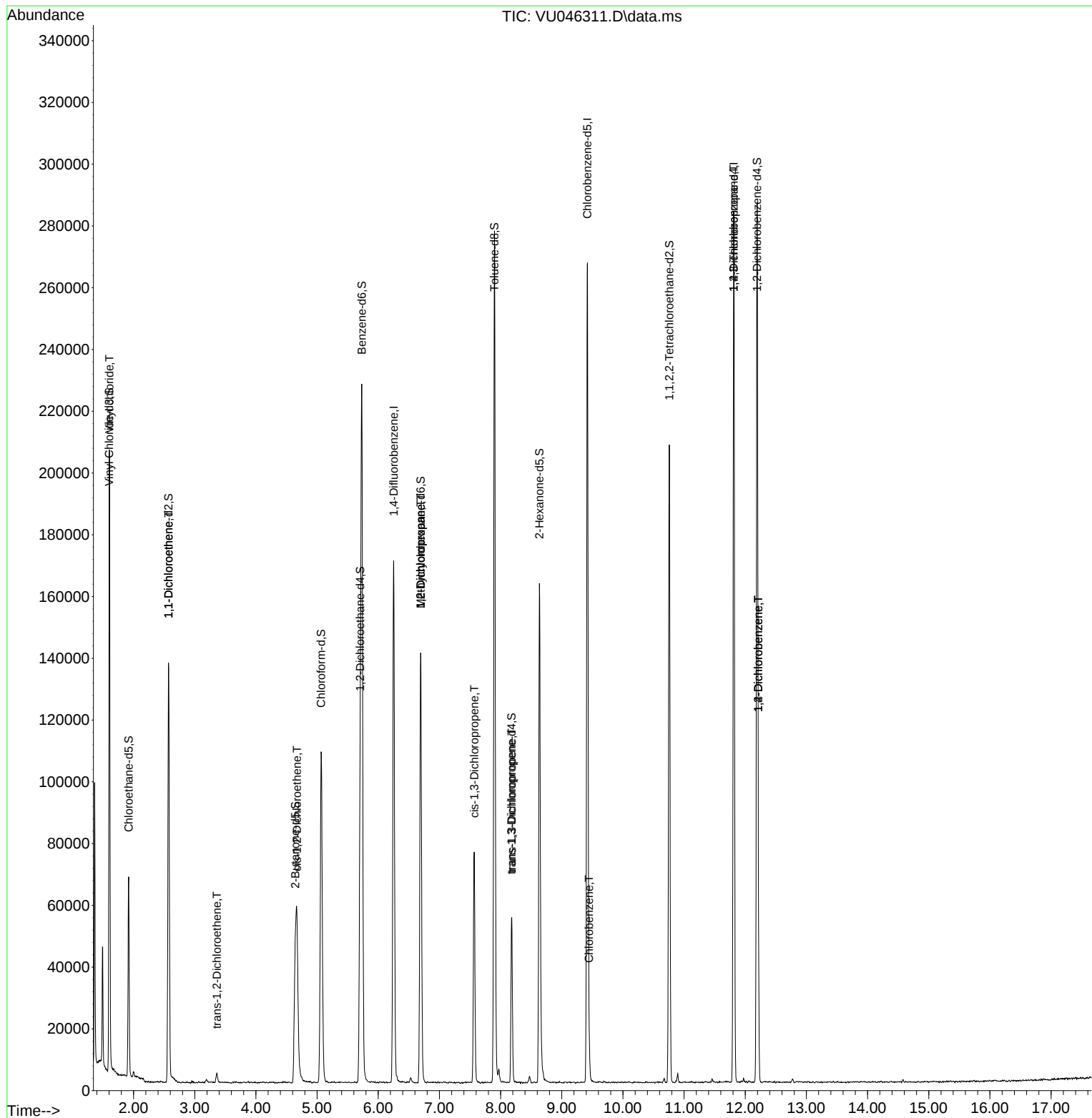
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) 1,4-Difluorobenzene        | 6.253          | 114  | 137619              | 50.000 | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420          | 117  | 147008              | 50.000 | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812         | 152  | 71887               | 50.000 | ug/L   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 4) Vinyl Chloride-d3          | 1.600          | 65   | 64821               | 57.180 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = 114.360% |        |        |          |
| 7) Chloroethane-d5            | 1.919          | 69   | 47105               | 54.119 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = 108.240% |        |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.571          | 63   | 82580               | 40.578 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 81.160%  |        |        |          |
| 21) 2-Butanone-d5             | 4.645          | 46   | 87375               | 96.956 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = 96.960%  |        |        |          |
| 24) Chloroform-d              | 5.067          | 84   | 100415              | 53.042 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 106.080% |        |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.703          | 65   | 69598               | 54.780 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 109.560% |        |        |          |
| 32) Benzene-d6                | 5.732          | 84   | 209835              | 49.801 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 99.600%  |        |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.694          | 67   | 65377               | 50.065 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = 100.140% |        |        |          |
| 41) Toluene-d8                | 7.899          | 98   | 183110              | 47.730 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 95.460%  |        |        |          |
| 43) trans-1,3-Dichloroprop... | 8.179          | 79   | 30202               | 47.911 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 95.820%  |        |        |          |
| 47) 2-Hexanone-d5             | 8.636          | 63   | 59649               | 96.341 | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = 96.340%  |        |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758         | 84   | 100730              | 50.865 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = 101.720% |        |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.195         | 152  | 70311               | 50.788 | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 101.580% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 5) Vinyl chloride             | 1.607          | 62   | 67652               | 50.100 | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.571          | 96   | 562                 | 0.591  | ug/L # | 1        |
| 17) trans-1,2-Dichloroethene  | 3.362          | 96   | 1396                | 1.386  | ug/L   | 77       |
| 20) cis-1,2-Dichloroethene    | 4.671          | 96   | 16070               | 14.707 | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.694          | 83   | 15886               | 8.741  | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 6.694          | 63   | 7174                | 6.155  | ug/L # | 86       |
| 39) cis-1,3-Dichloropropene   | 7.571          | 75   | 1887                | 1.064  | ug/L # | 69       |
| 44) trans-1,3-Dichloropropene | 8.182          | 75   | 1297                | 0.745  | ug/L # | 60       |
| 51) Chlorobenzene             | 9.446          | 112  | 5161                | 1.671  | ug/L   | 89       |
| 60) 1,2,3-Trichloropropane    | 11.812         | 75   | 9343                | 5.929  | ug/L # | 65       |
| 65) 1,4-Dichlorobenzene       | 12.211         | 146  | 10614               | 4.622  | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.211         | 146  | 12152               | 5.431  | ug/L   | 97       |
| -----                         |                |      |                     |        |        |          |

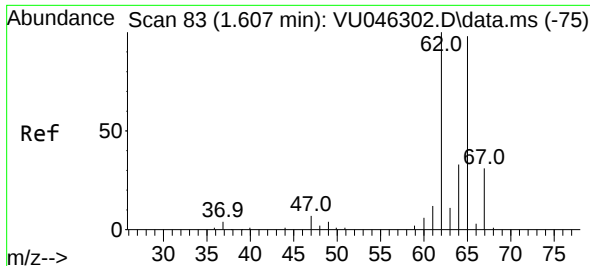
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121321\  
Data File : VU046311.D  
Acq On : 13 Dec 2021 13:37  
Operator : SY/MD  
Sample : M4971-13  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

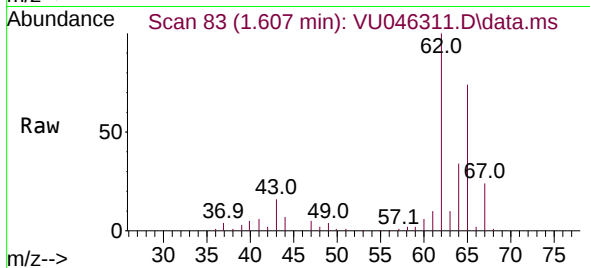
Quant Time: Dec 14 02:34:22 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112921WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Dec 13 13:51:57 2021  
Response via : Initial Calibration



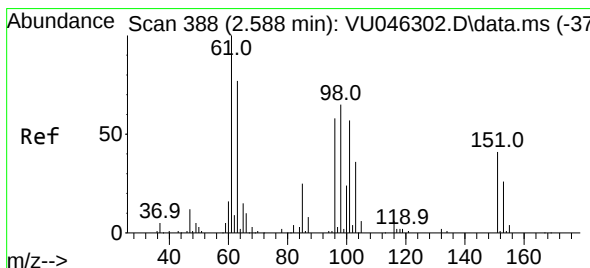
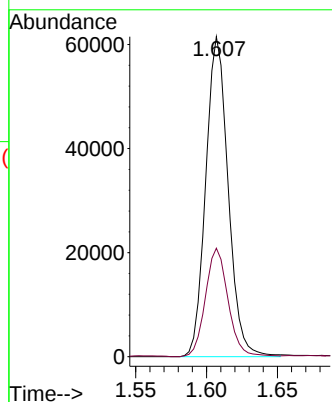
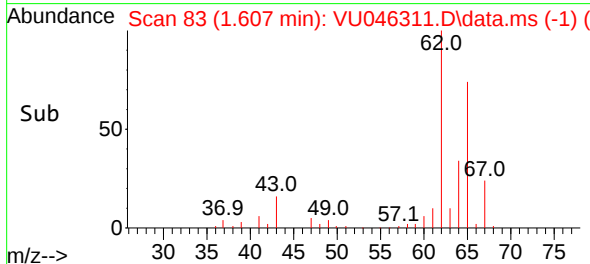


#5  
 Vinyl chloride  
 Concen: 50.100 ug/L  
 RT: 1.607 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU046311.D  
 Acq: 13 Dec 2021 13:37

Instrument :  
 MSVOA\_W  
 ClientSampleId :

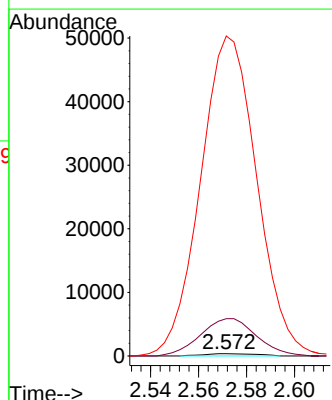
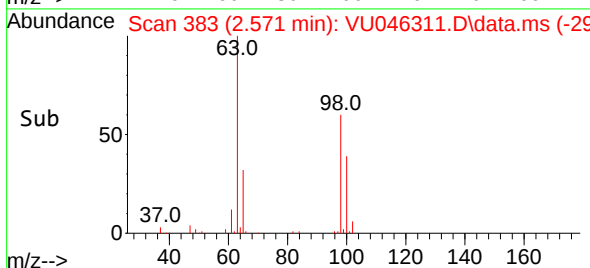
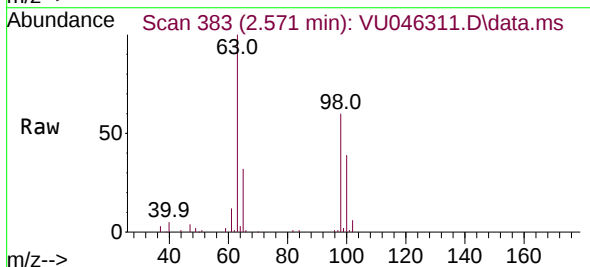


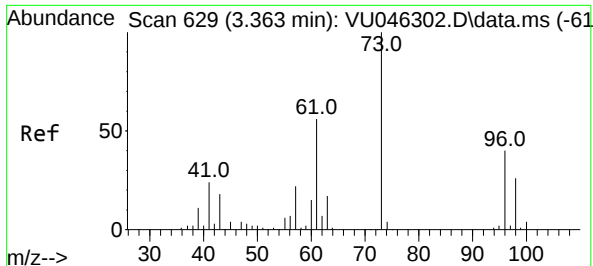
Tgt Ion: 62 Resp: 67652  
 Ion Ratio Lower Upper  
 62 100  
 64 33.9 22.9 42.5



#12  
 1,1-Dichloroethene  
 Concen: 0.591 ug/L  
 RT: 2.571 min Scan# 383  
 Delta R.T. -0.016 min  
 Lab File: VU046311.D  
 Acq: 13 Dec 2021 13:37

Tgt Ion: 96 Resp: 562  
 Ion Ratio Lower Upper  
 96 100  
 61 1662.9 118.6 220.2#  
 63 14259.5 93.0 172.8#





#17

trans-1,2-Dichloroethene

Concen: 1.386 ug/L

RT: 3.362 min Scan# 61

Delta R.T. -0.000 min

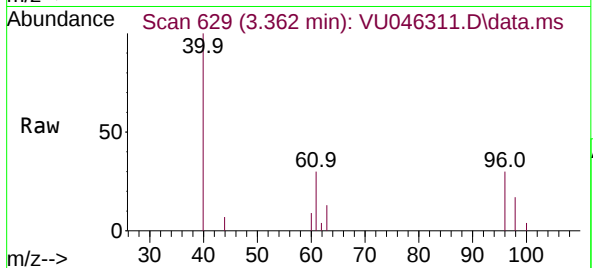
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Acq: 13 Dec 2021 13:37

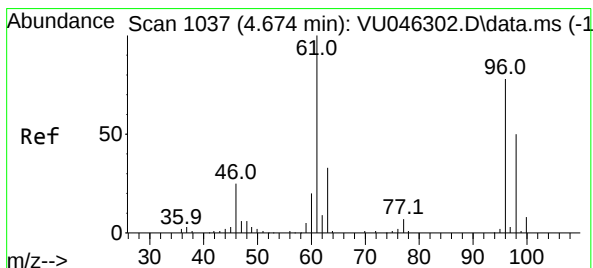
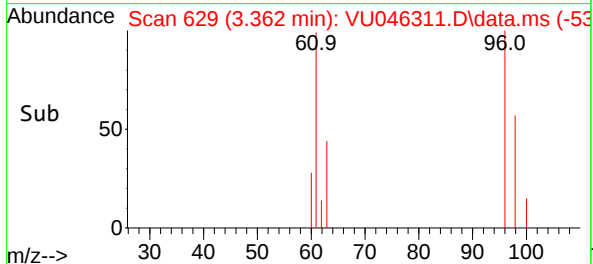
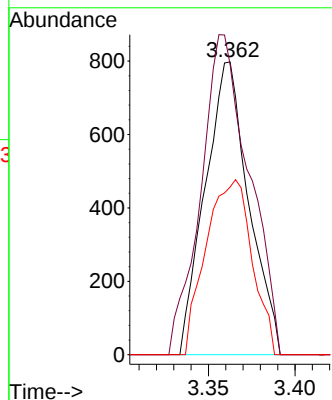
Instrument :

MSVOA\_W

ClientSampleId :



|             |                 |
|-------------|-----------------|
| Tgt Ion: 96 | Resp: 1396      |
| Ion Ratio   | Lower Upper     |
| 96          | 100             |
| 61          | 99.0 94.6 175.6 |
| 98          | 57.3 44.0 81.8  |



#20

cis-1,2-Dichloroethene

Concen: 14.707 ug/L

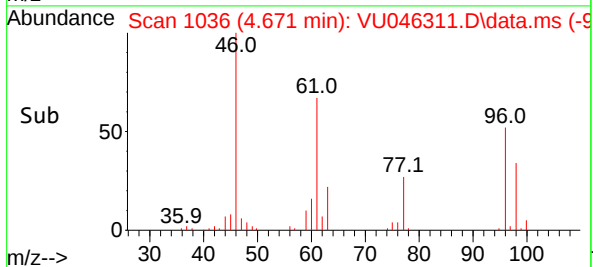
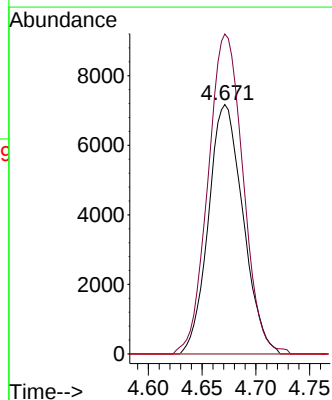
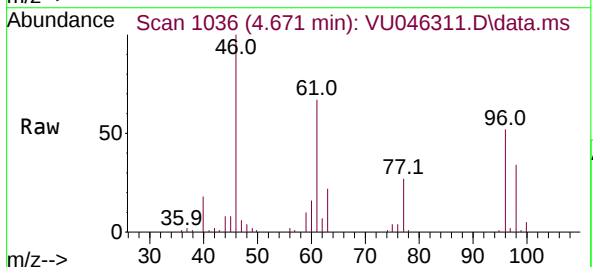
RT: 4.671 min Scan# 1036

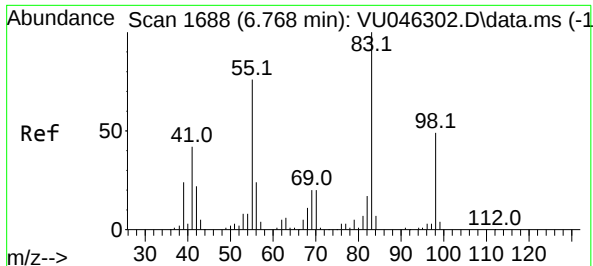
Delta R.T. -0.003 min

Lab File: VU046311.D

Acq: 13 Dec 2021 13:37

|             |                  |
|-------------|------------------|
| Tgt Ion: 96 | Resp: 16070      |
| Ion Ratio   | Lower Upper      |
| 96          | 100              |
| 61          | 128.3 86.8 161.2 |
| 68          | 0.0 0.0 0.0      |

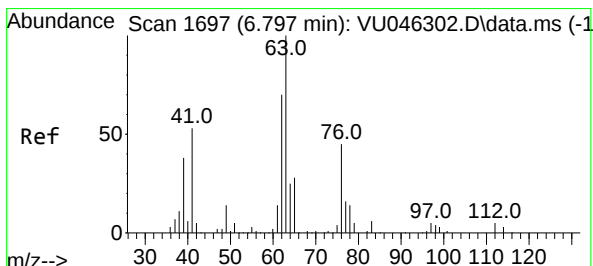
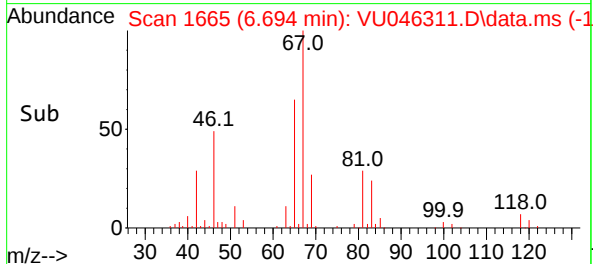
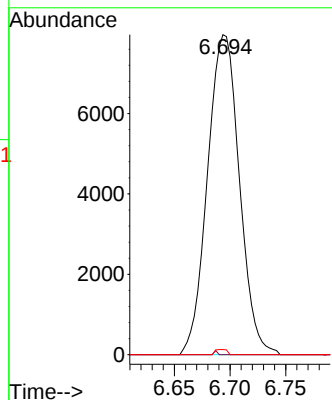
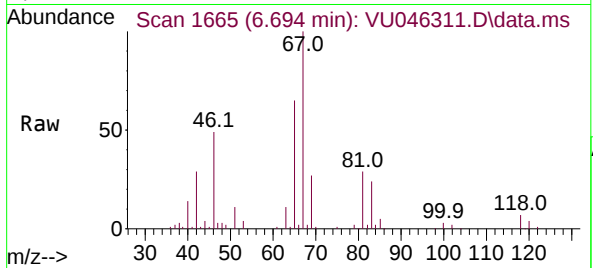




#35  
Methylcyclohexane  
Concen: 8.741 ug/L  
RT: 6.694 min Scan# 1665  
Delta R.T. -0.074 min  
Lab File: VU046311.D  
Acq: 13 Dec 2021 13:37

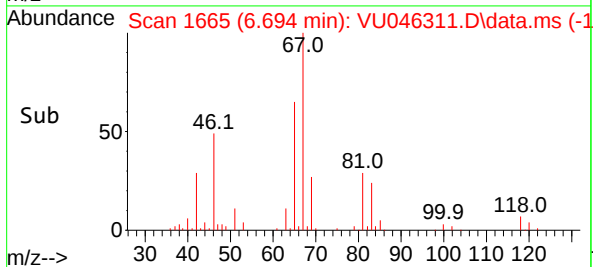
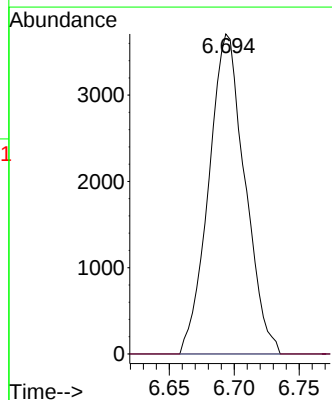
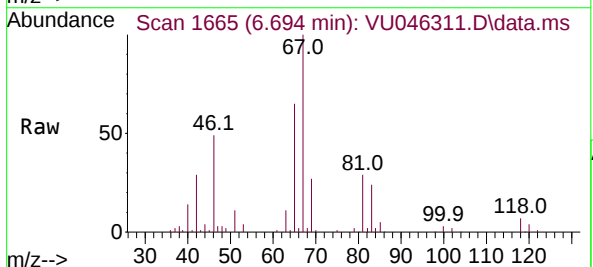
Instrument :  
MSVOA\_W  
ClientSampleId :

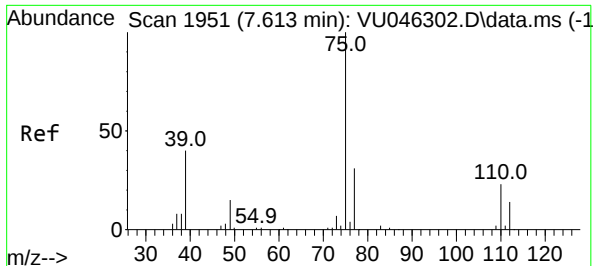
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 0.0   | 57.8  | 86.6# |
| 98      | 0.5   | 38.4  | 57.6# |



#37  
1,2-Dichloropropane  
Concen: 6.155 ug/L  
RT: 6.694 min Scan# 1665  
Delta R.T. -0.103 min  
Lab File: VU046311.D  
Acq: 13 Dec 2021 13:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 112     | 0.0   | 3.8   | 5.6#  |





#39

cis-1,3-Dichloropropene

Concen: 1.064 ug/L

RT: 7.571 min Scan# 1951

Delta R.T. -0.042 min

Lab File: VU046311.D

Acq: 13 Dec 2021 13:37

Instrument :

MSVOA\_W

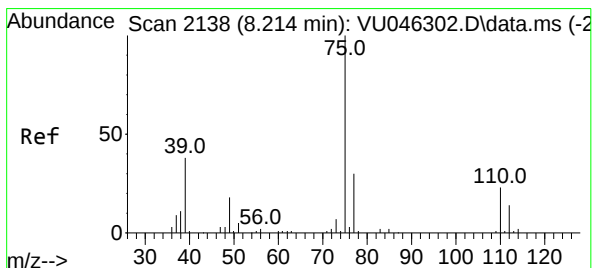
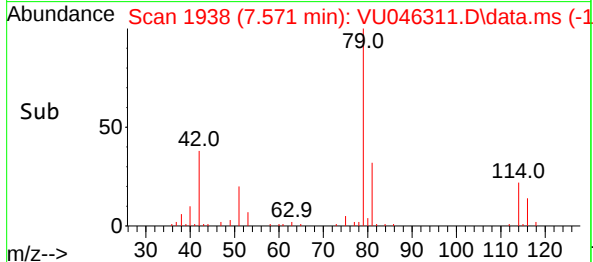
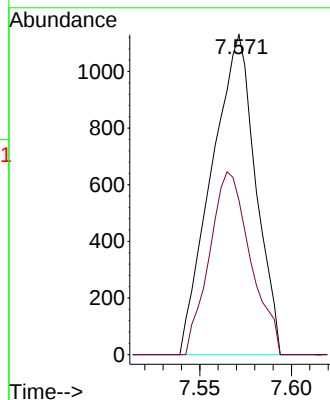
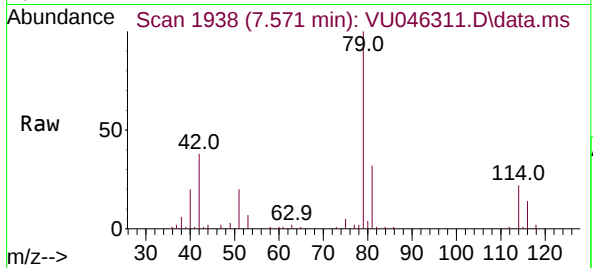
ClientSampleId :

Tgt Ion: 75 Resp: 1887

Ion Ratio Lower Upper

75 100

77 48.3 21.8 40.6#



#44

trans-1,3-Dichloropropene

Concen: 0.745 ug/L

RT: 8.182 min Scan# 2128

Delta R.T. -0.032 min

Lab File: VU046311.D

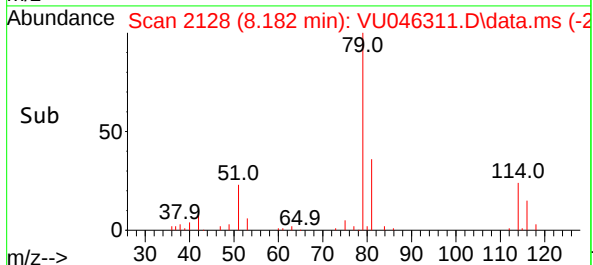
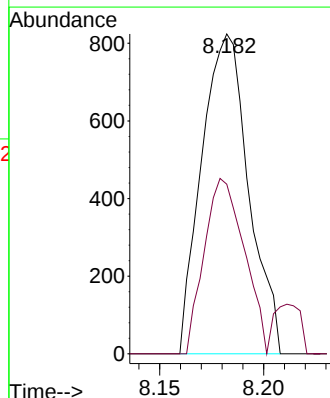
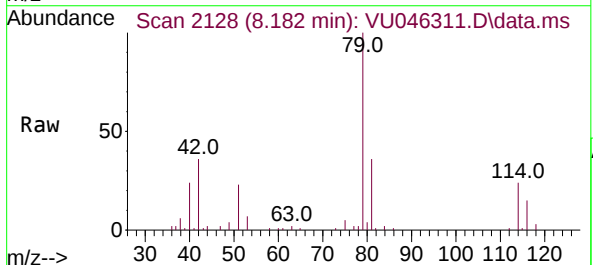
Acq: 13 Dec 2021 13:37

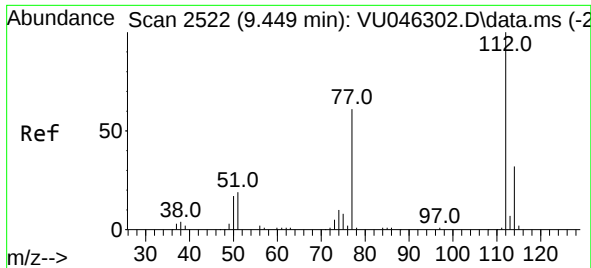
Tgt Ion: 75 Resp: 1297

Ion Ratio Lower Upper

75 100

77 53.0 21.7 40.3#

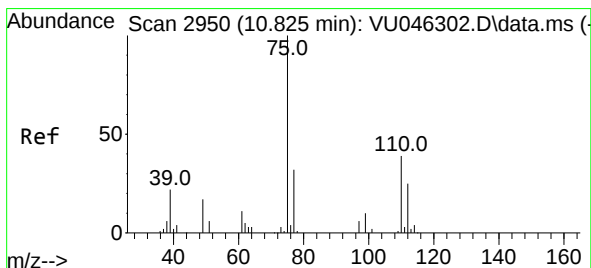
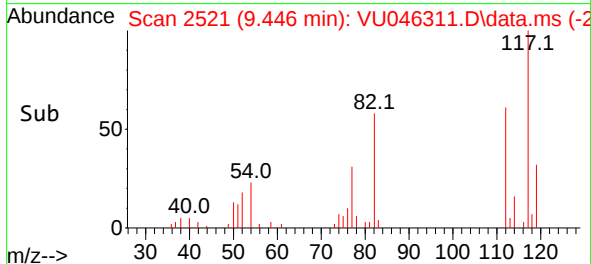
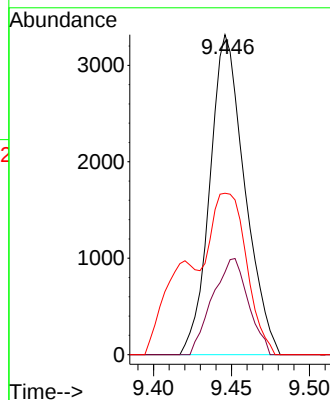
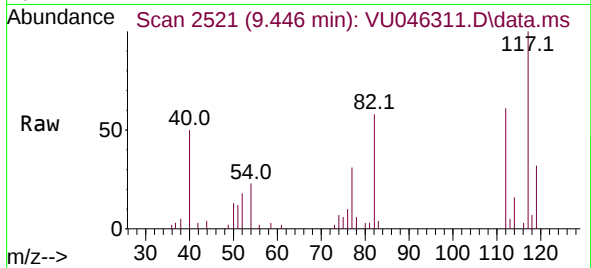




#51  
Chlorobenzene  
Concen: 1.671 ug/L  
RT: 9.446 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU046311.D  
Acq: 13 Dec 2021 13:37

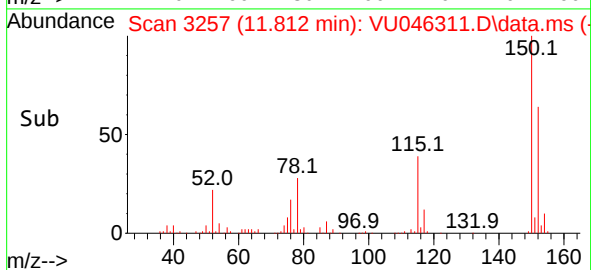
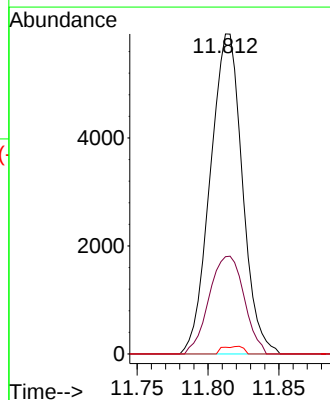
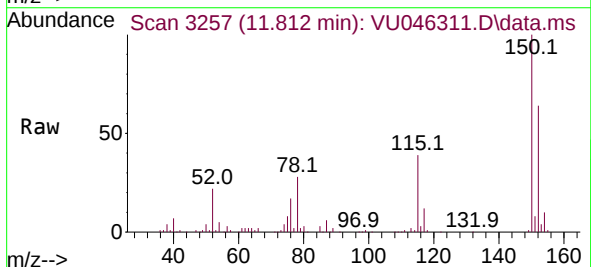
Instrument :  
MSVOA\_W  
ClientSampleId :

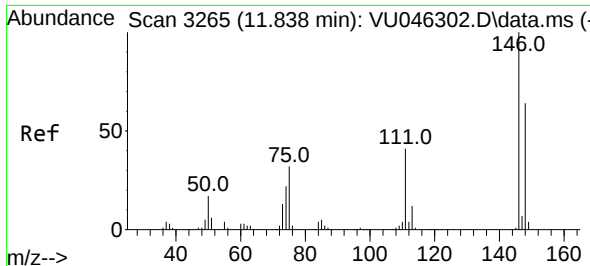
Tgt Ion:112 Resp: 5161  
Ion Ratio Lower Upper  
112 100  
114 25.8 22.2 41.2  
77 50.5 47.4 71.0



#60  
1,2,3-Trichloropropane  
Concen: 5.929 ug/L  
RT: 11.812 min Scan# 3257  
Delta R.T. 0.987 min  
Lab File: VU046311.D  
Acq: 13 Dec 2021 13:37

Tgt Ion: 75 Resp: 9343  
Ion Ratio Lower Upper  
75 100  
77 33.2 26.4 39.6  
110 0.7 32.4 48.6#

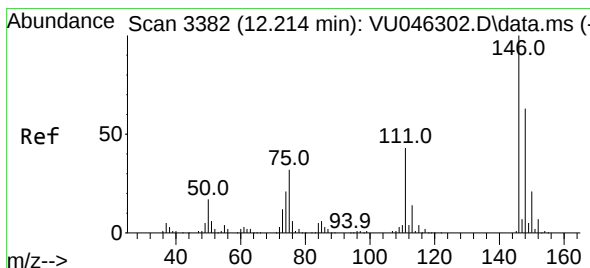
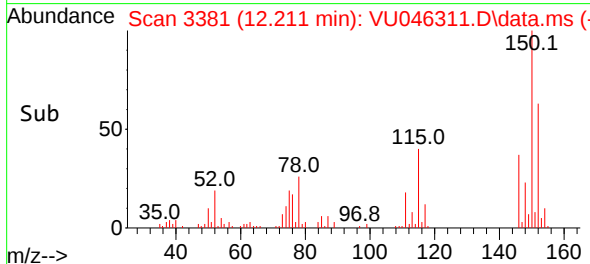
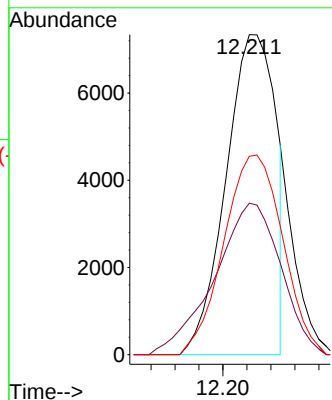
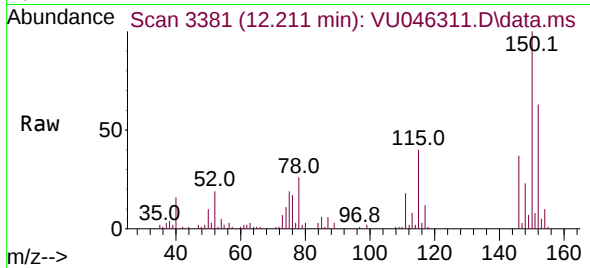




#65  
1,4-Dichlorobenzene  
Concen: 4.622 ug/L  
RT: 12.211 min Scan# 3381  
Delta R.T. 0.373 min  
Lab File: VU046311.D  
Acq: 13 Dec 2021 13:37

Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion:146 Resp: 10614  
Ion Ratio Lower Upper  
146 100  
111 47.3 28.3 52.7  
148 62.0 43.8 81.3



#67  
1,2-Dichlorobenzene  
Concen: 5.431 ug/L  
RT: 12.211 min Scan# 3381  
Delta R.T. -0.003 min  
Lab File: VU046311.D  
Acq: 13 Dec 2021 13:37

Tgt Ion:146 Resp: 12152  
Ion Ratio Lower Upper  
146 100  
111 47.3 35.7 53.5  
148 62.0 51.2 76.8

