

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU020323\  
 Data File : VU052944.D  
 Acq On : 03 Feb 2023 14:52  
 Operator : JC/MD  
 Sample : 01381-19  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Feb 03 23:46:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM012623WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Feb 03 23:44:08 2023  
 Response via : Initial Calibration

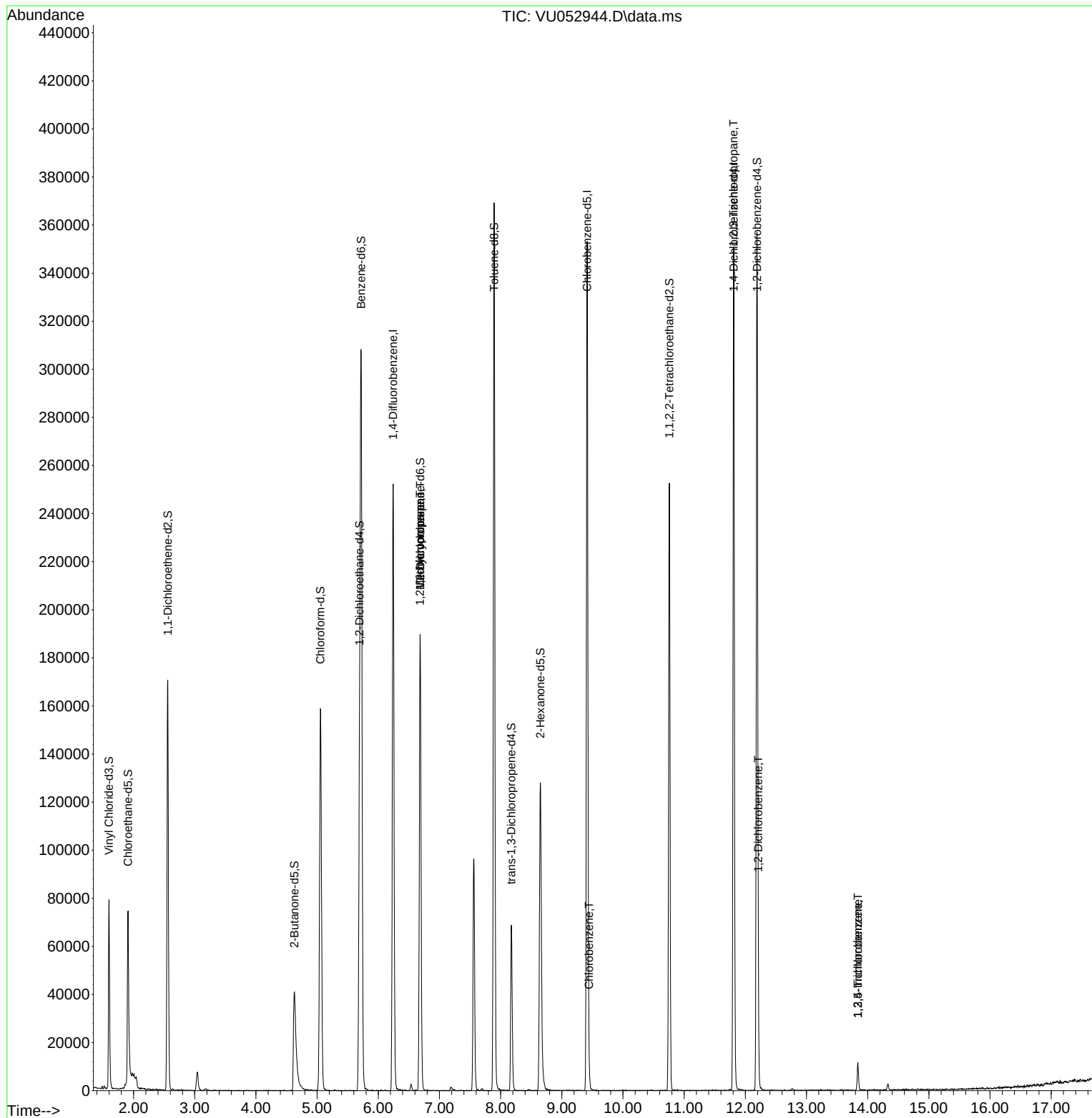
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.244   | 114   | 208457   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 200304   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.810  | 152   | 97032    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.598   | 65    | 62898    | 41.921   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 83.840%  |
| 7) Chloroethane-d5            | 1.910   | 69    | 60270    | 48.751   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 97.500%  |
| 11) 1,1-Dichloroethene-d2     | 2.559   | 63    | 100113   | 33.548   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 67.100%  |
| 21) 2-Butanone-d5             | 4.627   | 46    | 72602    | 78.331   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 78.330%  |
| 24) Chloroform-d              | 5.054   | 84    | 153416   | 47.911   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.820%  |
| 26) 1,2-Dichloroethane-d4     | 5.694   | 65    | 101892   | 49.835   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.680%  |
| 32) Benzene-d6                | 5.720   | 84    | 288376   | 47.123   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.240%  |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 84621    | 47.148   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 94.300%  |
| 41) Toluene-d8                | 7.893   | 98    | 244424   | 43.863   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.720%  |
| 43) trans-1,3-Dichloroprop... | 8.173   | 79    | 41096    | 45.684   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.360%  |
| 47) 2-Hexanone-d5             | 8.649   | 63    | 51895    | 82.290   | ug/L   | 0.02     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 82.290%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 118293   | 44.609   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 89.220%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 96837    | 51.397   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 102.800% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 35) Methylcyclohexane         | 6.684   | 83    | 23102    | 8.422    | ug/L # | 20       |
| 37) 1,2-Dichloropropane       | 6.681   | 63    | 9612     | 5.734    | ug/L # | 85       |
| 51) Chlorobenzene             | 9.443   | 112   | 3844     | 0.800    | ug/L   | 94       |
| 60) 1,2,3-Trichloropropane    | 11.806  | 75    | 9469     | 5.031    | ug/L # | 65       |
| 67) 1,2-Dichlorobenzene       | 12.211  | 146   | 8904     | 2.784    | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene    | 13.838  | 180   | 4390     | 1.876    | ug/L   | 92       |
| 70) 1,2,4-trichlorobenzene    | 13.838  | 180   | 4390     | 2.237    | ug/L   | 90       |
| -----                         |         |       |          |          |        |          |

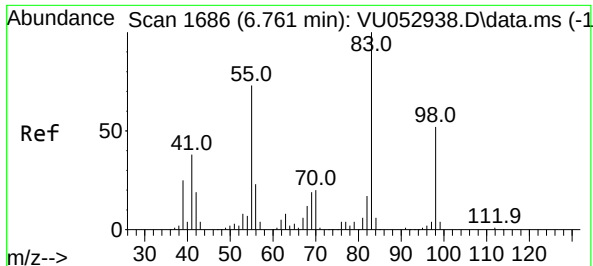
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Feb 03 23:44:08 2023  
Response via : Initial Calibration





#35

Methylcyclohexane

Concen: 8.422 ug/L

RT: 6.684 min Scan# 1

Delta R.T. -0.077 min

Lab File: VU052944.D

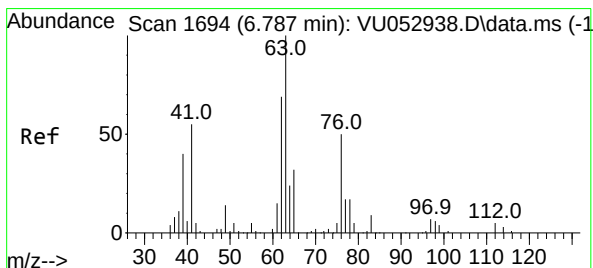
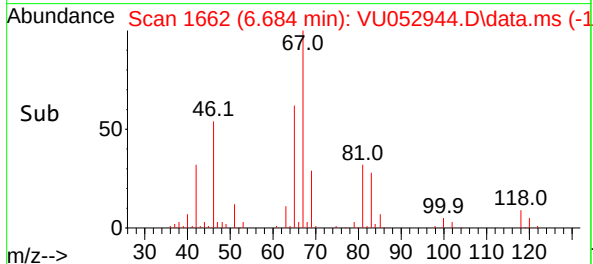
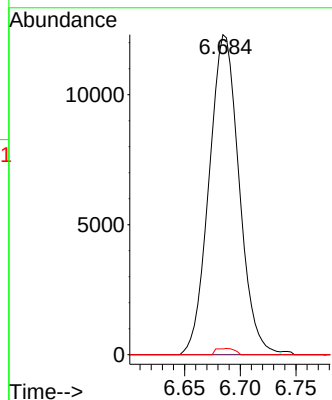
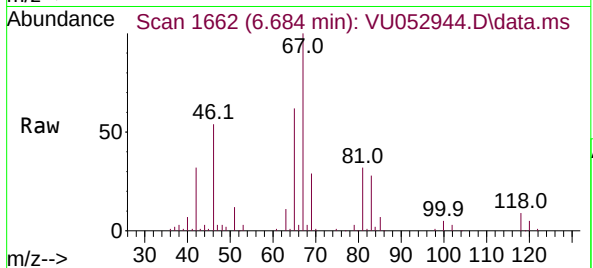
Acq: 03 Feb 2023 14:52

Instrument :

MSVOA\_U

ClientSampleId :

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 23102 |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 55 0.0      | 57.1 85.7#  |
| 98 0.2      | 38.9 58.3#  |



#37

1,2-Dichloropropane

Concen: 5.734 ug/L

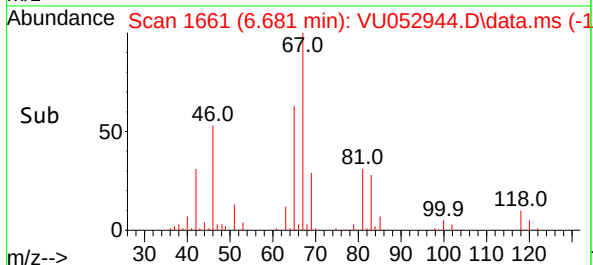
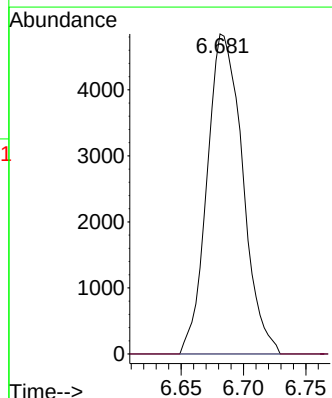
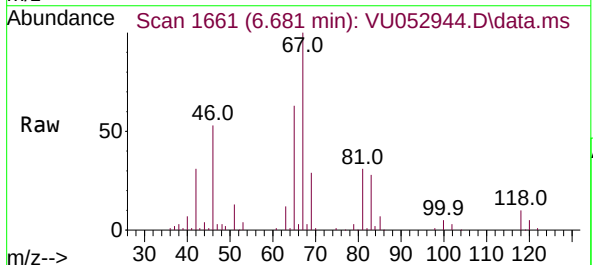
RT: 6.681 min Scan# 1661

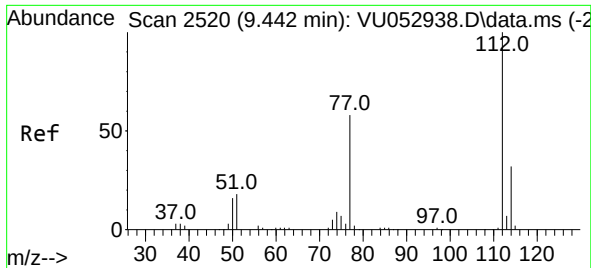
Delta R.T. -0.105 min

Lab File: VU052944.D

Acq: 03 Feb 2023 14:52

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 9612  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 112 0.0     | 3.8 5.8#    |

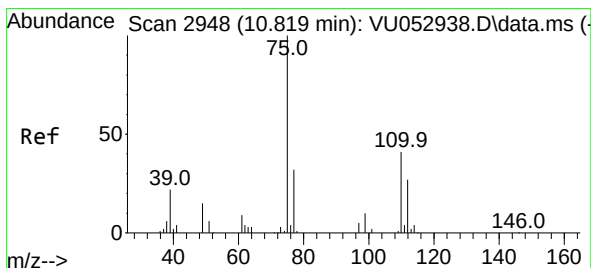
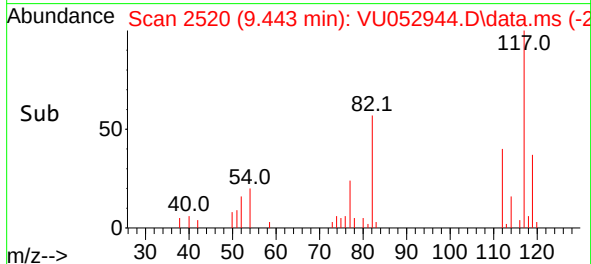
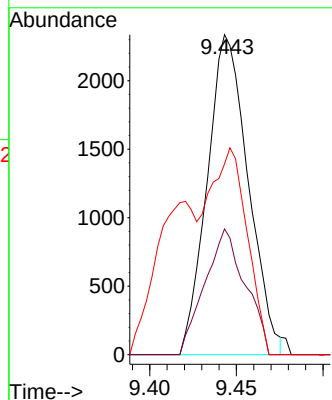
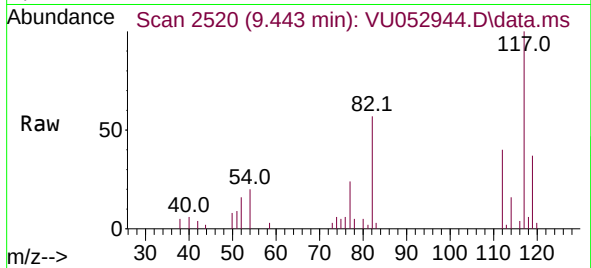




#51  
Chlorobenzene  
Concen: 0.800 ug/L  
RT: 9.443 min Scan# 211  
Delta R.T. 0.001 min  
Lab File: VU052944.D  
Acq: 03 Feb 2023 14:52

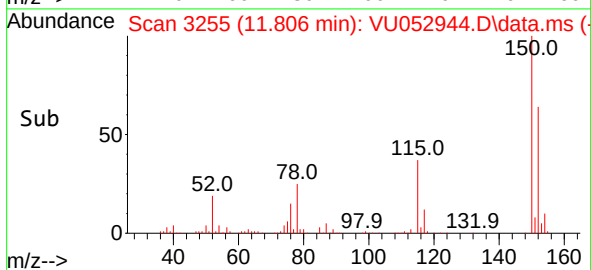
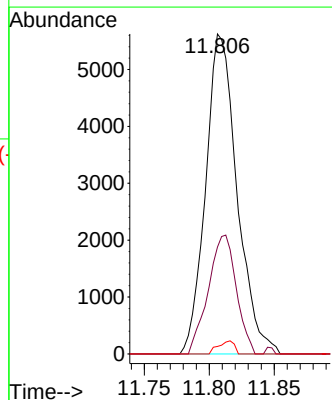
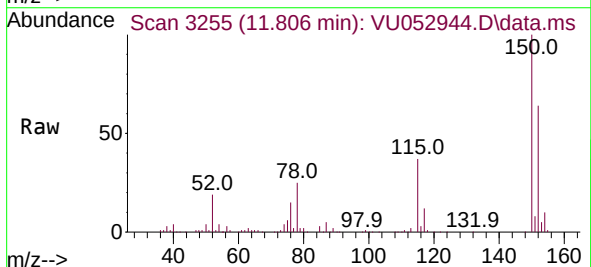
Instrument :  
MSVOA\_U  
ClientSampleId :

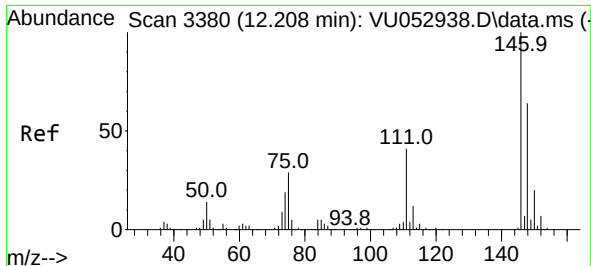
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 3844 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 114       | 39.3  | 22.8  | 42.4 |
| 77        | 59.6  | 45.9  | 68.9 |



#60  
1,2,3-Trichloropropane  
Concen: 5.031 ug/L  
RT: 11.806 min Scan# 3255  
Delta R.T. 0.988 min  
Lab File: VU052944.D  
Acq: 03 Feb 2023 14:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 9469  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 33.0  | 25.8  | 38.8  |
| 110       | 2.1   | 32.4  | 48.6# |





#67

1,2-Dichlorobenzene

Concen: 2.784 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.004 min

Lab File: VU052944.D

Acq: 03 Feb 2023 14:52

Instrument :

MSVOA\_U

ClientSampleId :

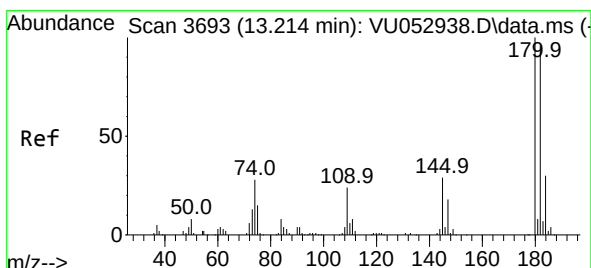
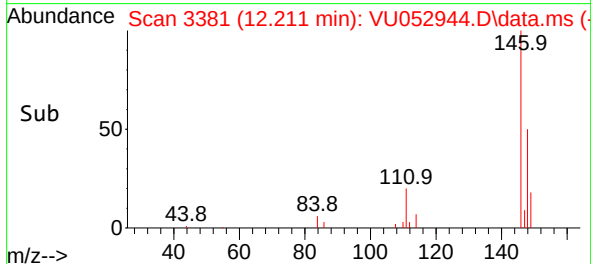
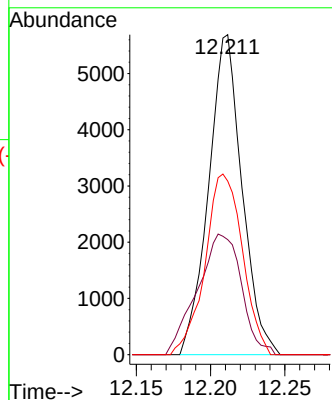
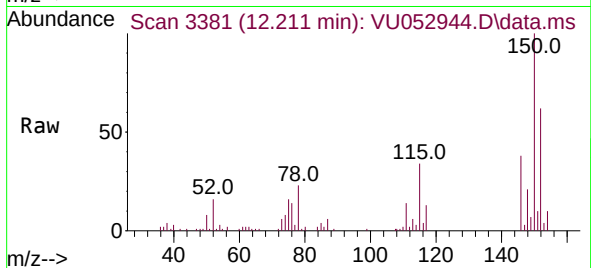
Tgt Ion:146 Resp: 8904

Ion Ratio Lower Upper

146 100

111 36.0 33.2 49.8

148 54.3 50.2 75.4



#69

1,3,5-Trichlorobenzene

Concen: 1.876 ug/L

RT: 13.838 min Scan# 3887

Delta R.T. 0.624 min

Lab File: VU052944.D

Acq: 03 Feb 2023 14:52

Tgt Ion:180 Resp: 4390

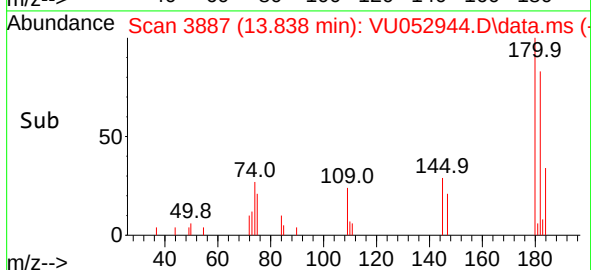
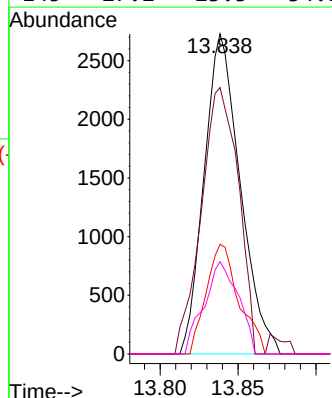
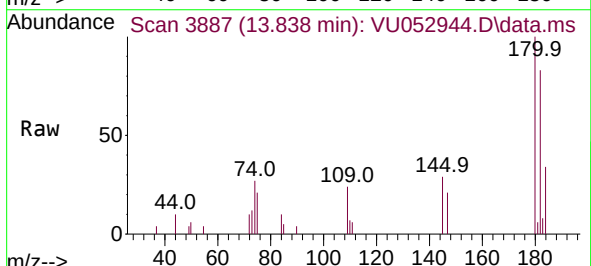
Ion Ratio Lower Upper

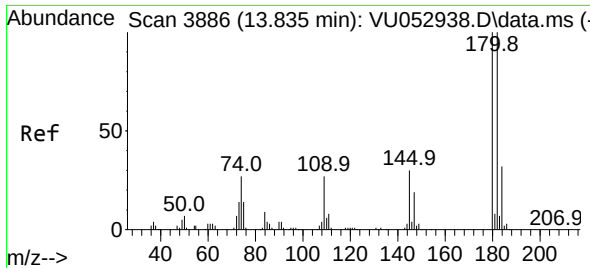
180 100

182 85.4 77.0 115.6

184 31.0 24.4 36.6

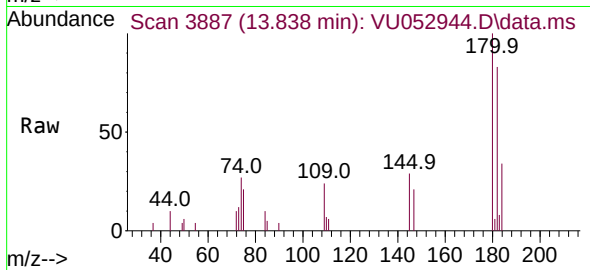
145 27.2 23.3 34.9





#70  
 1,2,4-trichlorobenzene  
 Concen: 2.237 ug/L  
 RT: 13.838 min Scan# 3887  
 Delta R.T. 0.004 min  
 Lab File: VU052944.D  
 Acq: 03 Feb 2023 14:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 4390        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 85.4  | 78.2 117.2  |
| 145         | 27.2  | 23.4 35.2   |

