

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111621\  
 Data File : VU045820.D  
 Acq On : 16 Nov 2021 20:26  
 Operator : SY/MD  
 Sample : M4686-15  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 17 04:53:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111521WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Nov 17 04:49:52 2021  
 Response via : Initial Calibration

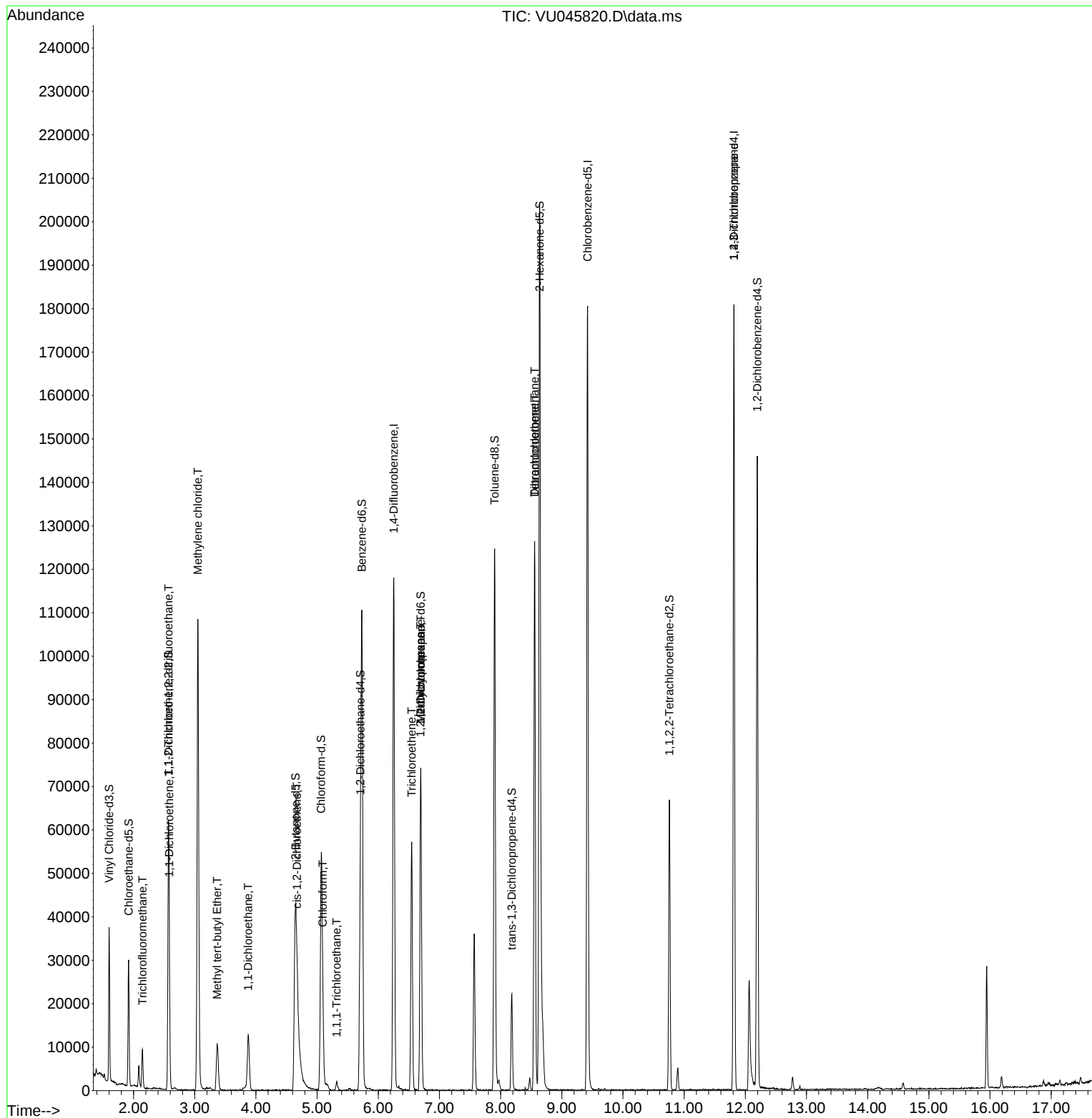
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253  | 114   | 95547    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.421  | 117   | 100585   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.813 | 152   | 46267    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601  | 65    | 24117    | 3.186    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 63.800%  |
| 7) Chloroethane-d5            | 1.919  | 69    | 21107    | 3.830    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 76.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.572  | 65    | 11135    | 3.507    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 70.200%  |
| 20) 2-Butanone-d5             | 4.649  | 46    | 108756   | 53.609   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 107.220% |
| 24) Chloroform-d              | 5.067  | 84    | 47949    | 3.802    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 76.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.707  | 65    | 31229    | 4.220    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 84.400%  |
| 32) Benzene-d6                | 5.733  | 84    | 101607   | 3.668    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 73.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.694  | 67    | 34694    | 3.974    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 79.400%  |
| 41) Toluene-d8                | 7.903  | 98    | 85605    | 3.416    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 68.400%# |
| 43) trans-1,3-Dichloroprop... | 8.183  | 79    | 13114    | 3.700    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 74.000%  |
| 46) 2-Hexanone-d5             | 8.636  | 63    | 74796    | 46.891   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 93.780%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758 | 84    | 33326    | 4.519    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 90.400%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152   | 36799    | 4.632    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 92.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 9) Trichlorofluoromethane     | 2.144  | 101   | 5927     | 0.555    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.572  | 101   | 309      | 0.049    | ug/L # | 21       |
| 12) 1,1-Dichloroethene        | 2.585  | 96    | 3346     | 0.566    | ug/L # | 1        |
| 16) Methylene chloride        | 3.051  | 84    | 52715    | 6.037    | ug/L   | 99       |
| 17) Methyl tert-butyl Ether   | 3.366  | 73    | 12183    | 0.791    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.874  | 63    | 14616    | 1.231    | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 4.672  | 96    | 1342     | 0.195    | ug/L   | 88       |
| 25) Chloroform                | 5.093  | 83    | 12425    | 0.964    | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 5.318  | 97    | 1647     | 0.151    | ug/L   | 97       |
| 34) Trichloroethene           | 6.546  | 95    | 18994    | 2.626    | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.694  | 83    | 8111     | 0.730    | ug/L # | 18       |
| 37) 1,2-Dichloropropane       | 6.691  | 63    | 3873     | 0.524    | ug/L # | 88       |
| 47) Tetrachloroethene         | 8.556  | 164   | 26878    | 5.308    | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.556  | 129   | 26812    | 4.293    | ug/L # | 10       |
| 61) 1,2,3-Trichloropropane    | 11.813 | 75    | 6037     | 1.257    | ug/L # | 68       |
| -----                         |        |       |          |          |        |          |

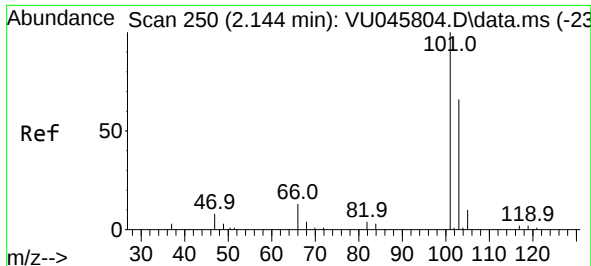
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111621\  
Data File : VU045820.D  
Acq On : 16 Nov 2021 20:26  
Operator : SY/MD  
Sample : M4686-15  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

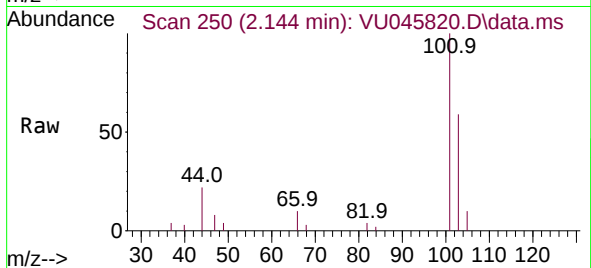
Quant Time: Nov 17 04:53:41 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111521WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Nov 17 04:49:52 2021  
Response via : Initial Calibration



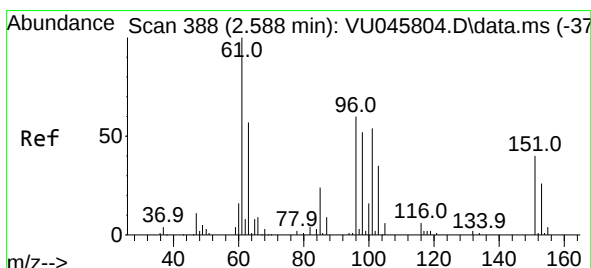
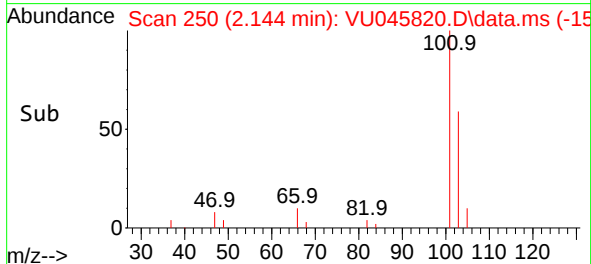
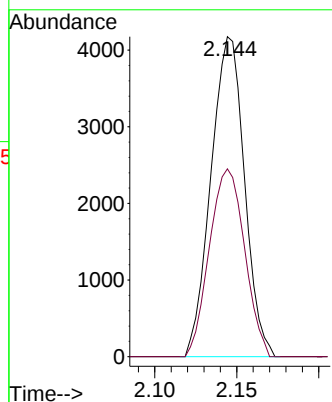


#9  
 Trichlorofluoromethane  
 Concen: 0.555 ug/L  
 RT: 2.144 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VU045820.D  
 Acq: 16 Nov 2021 20:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :

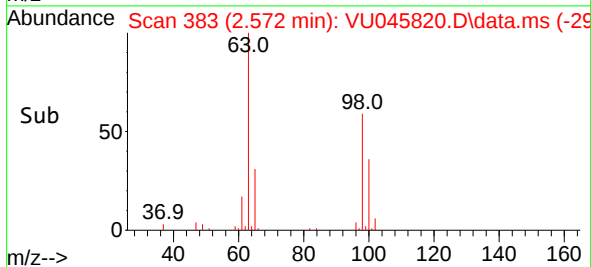
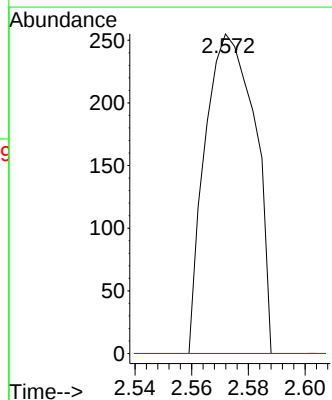
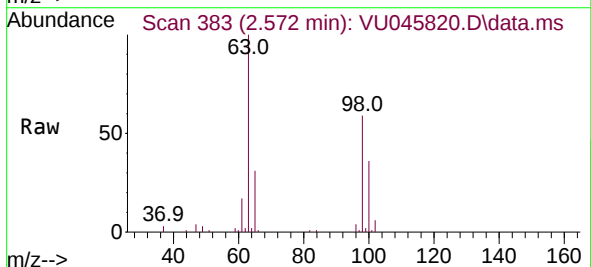


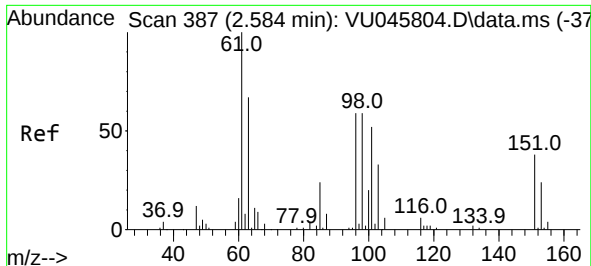
Tgt Ion:101 Resp: 5927  
 Ion Ratio Lower Upper  
 101 100  
 103 61.6 51.5 77.3



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.049 ug/L  
 RT: 2.572 min Scan# 383  
 Delta R.T. -0.016 min  
 Lab File: VU045820.D  
 Acq: 16 Nov 2021 20:26

Tgt Ion:101 Resp: 309  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 34.6 51.8#  
 151 0.0 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 0.566 ug/L

RT: 2.585 min Scan# 387

Delta R.T. 0.000 min

Lab File: VU045820.D

Acq: 16 Nov 2021 20:26

Instrument :

MSVOA\_U

ClientSampleId :

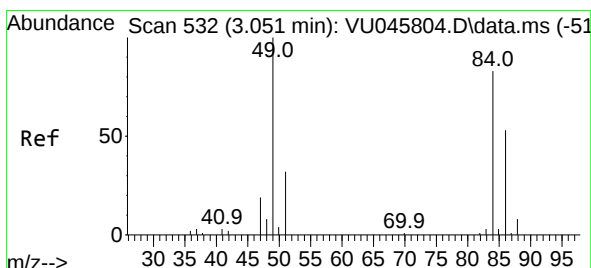
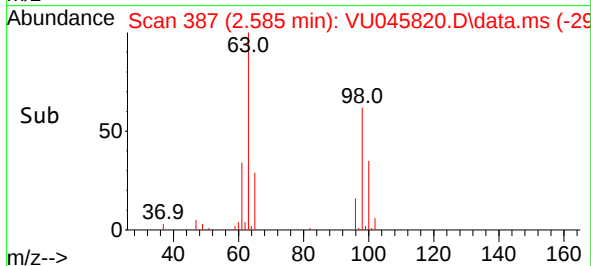
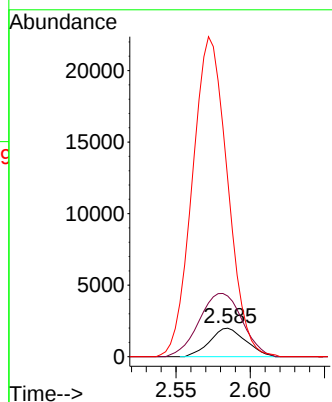
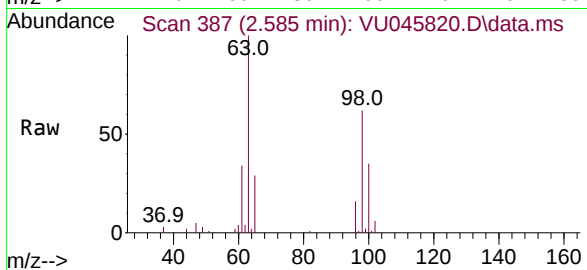
Tgt Ion: 96 Resp: 3346

Ion Ratio Lower Upper

96 100

61 212.2 124.7 231.5

63 622.0 105.2 195.4#



#16

Methylene chloride

Concen: 6.037 ug/L

RT: 3.051 min Scan# 532

Delta R.T. 0.000 min

Lab File: VU045820.D

Acq: 16 Nov 2021 20:26

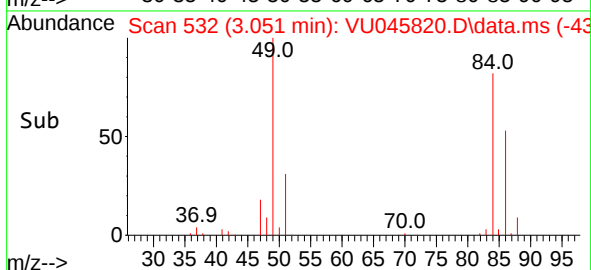
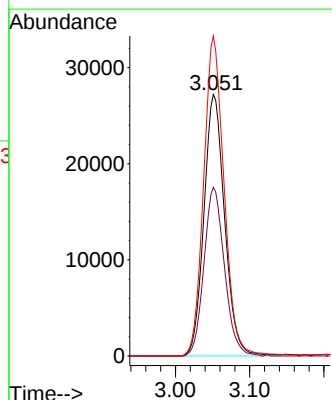
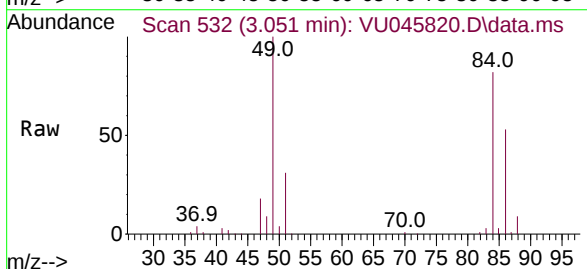
Tgt Ion: 84 Resp: 52715

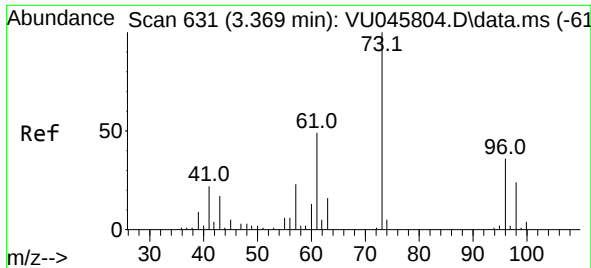
Ion Ratio Lower Upper

84 100

86 64.5 45.8 85.0

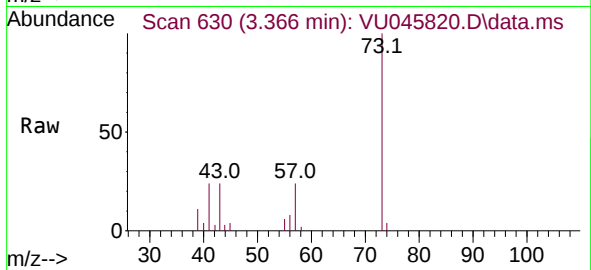
49 122.4 84.5 156.9



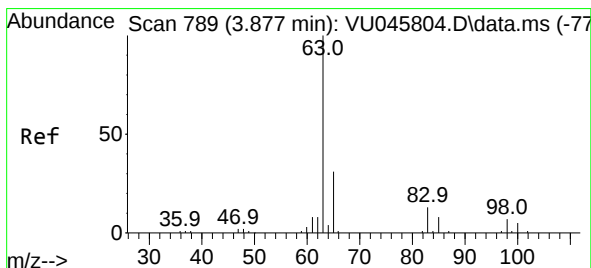
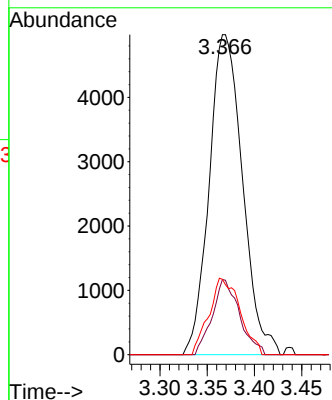
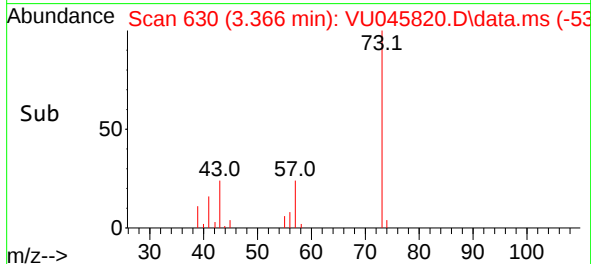


#17  
Methyl tert-butyl Ether  
Concen: 0.791 ug/L  
RT: 3.366 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VU045820.D  
Acq: 16 Nov 2021 20:26

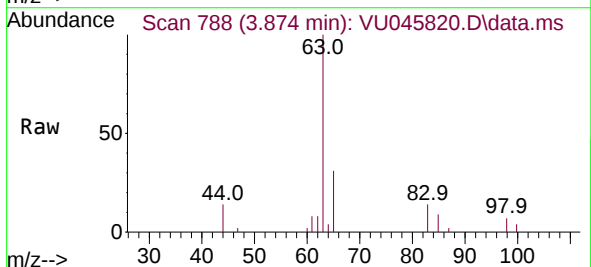
Instrument :  
MSVOA\_U  
ClientSampleId :



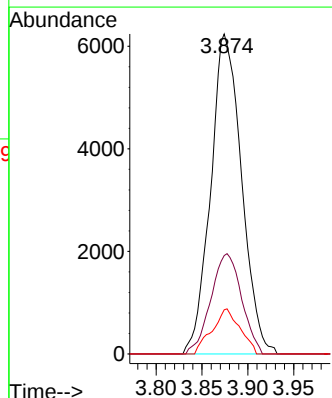
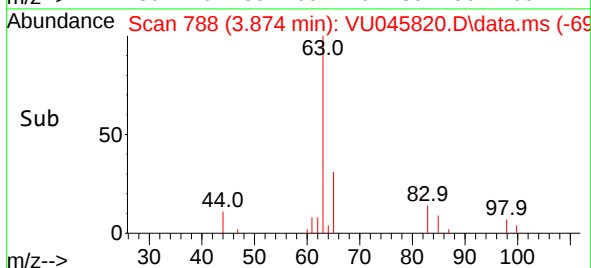
Tgt Ion: 73 Resp: 12183  
Ion Ratio Lower Upper  
73 100  
43 19.2 14.8 22.2  
57 22.3 17.4 26.0

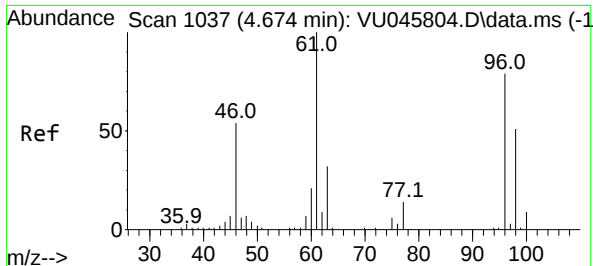


#19  
1,1-Dichloroethane  
Concen: 1.231 ug/L  
RT: 3.874 min Scan# 788  
Delta R.T. -0.003 min  
Lab File: VU045820.D  
Acq: 16 Nov 2021 20:26



Tgt Ion: 63 Resp: 14616  
Ion Ratio Lower Upper  
63 100  
65 30.7 22.3 41.5  
83 13.8 9.6 17.8





#22

cis-1,2-Dichloroethene

Concen: 0.195 ug/L

RT: 4.672 min Scan# 1036

Delta R.T. -0.003 min

Lab File: VU045820.D

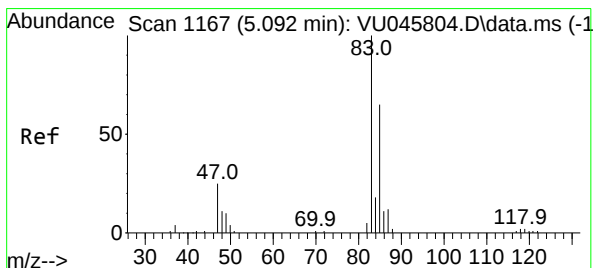
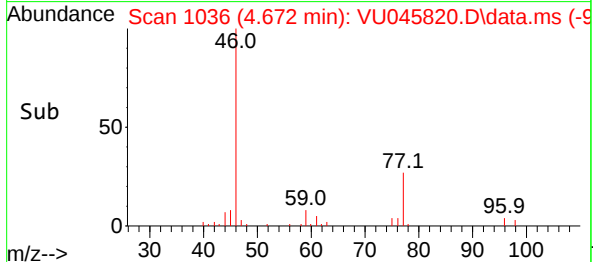
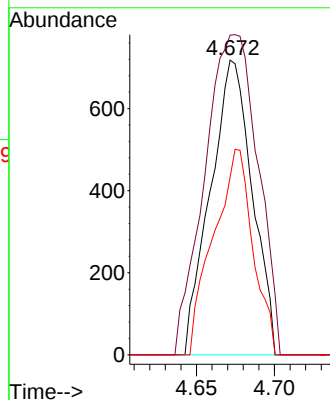
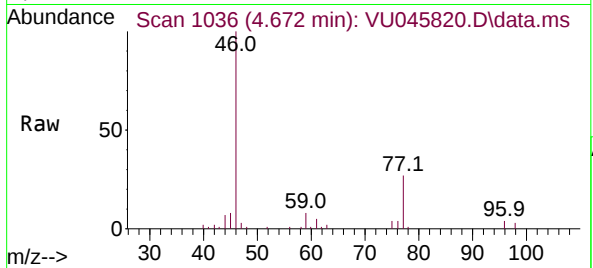
Acq: 16 Nov 2021 20:26

Instrument :

MSVOA\_U

ClientSampleId :

|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 1342  |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 108.5    | 88.5 164.3  |
| 98 60.3     | 44.4 82.5   |



#25

Chloroform

Concen: 0.964 ug/L

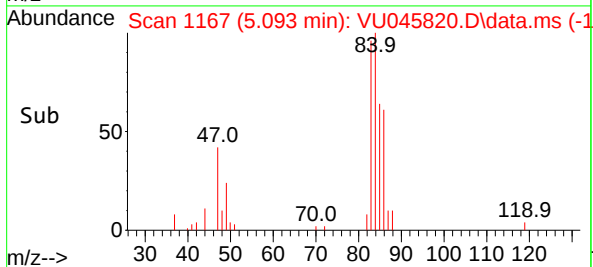
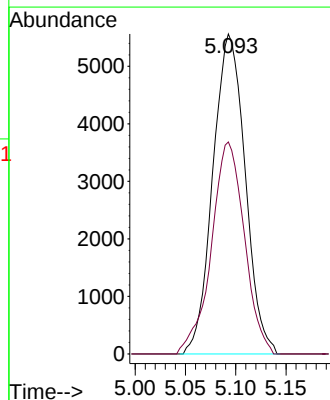
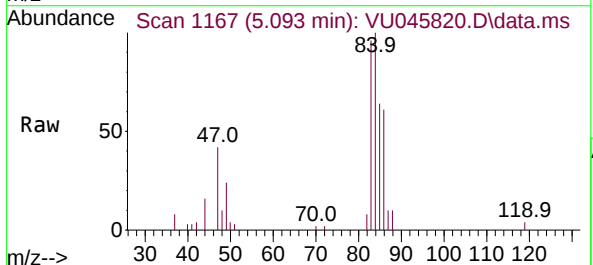
RT: 5.093 min Scan# 1167

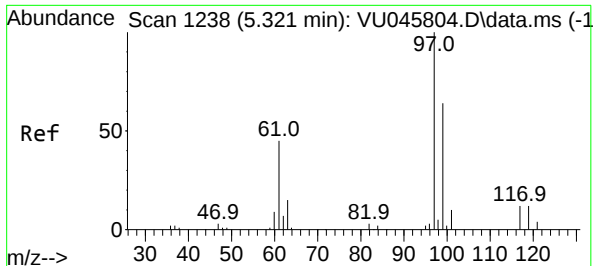
Delta R.T. 0.000 min

Lab File: VU045820.D

Acq: 16 Nov 2021 20:26

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 12425 |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 85 66.3     | 46.9 87.1   |





#29

1,1,1-Trichloroethane

Concen: 0.151 ug/L

RT: 5.318 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU045820.D

Acq: 16 Nov 2021 20:26

Instrument :

MSVOA\_U

ClientSampleId :

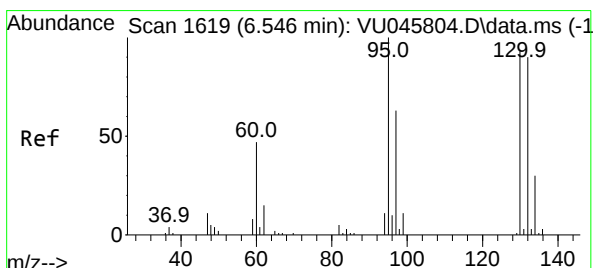
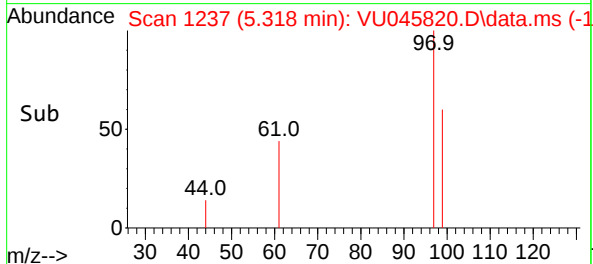
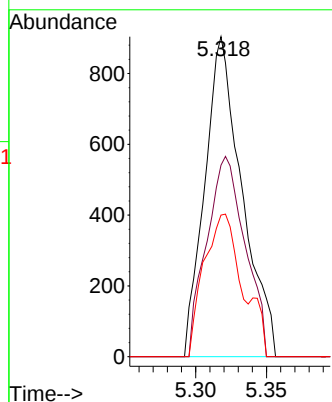
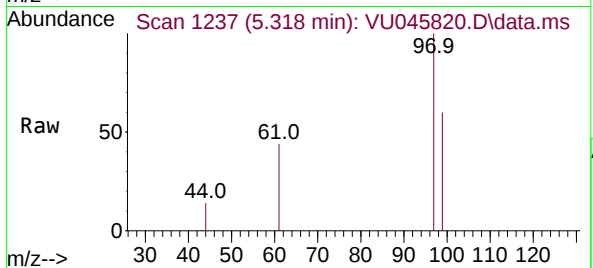
Tgt Ion: 97 Resp: 1647

Ion Ratio Lower Upper

97 100

99 65.0 51.3 76.9

61 41.3 36.1 54.1



#34

Trichloroethene

Concen: 2.626 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VU045820.D

Acq: 16 Nov 2021 20:26

Tgt Ion: 95 Resp: 18994

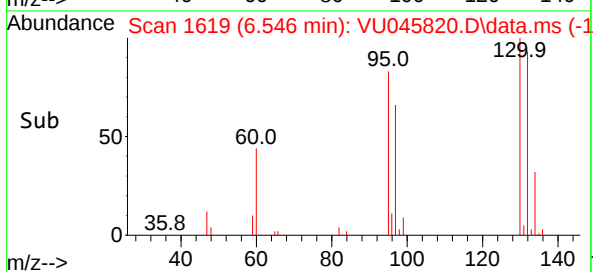
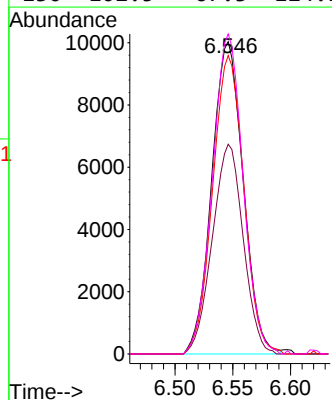
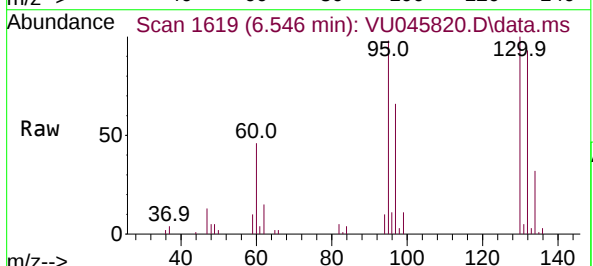
Ion Ratio Lower Upper

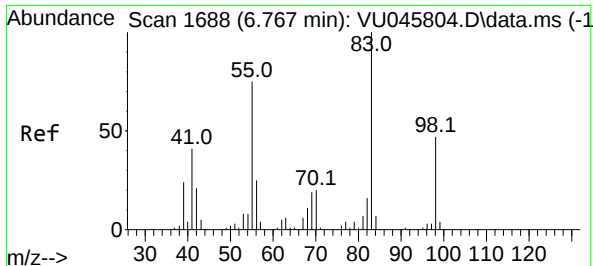
95 100

97 67.2 46.5 86.5

132 95.6 65.1 120.9

130 102.5 67.3 124.9

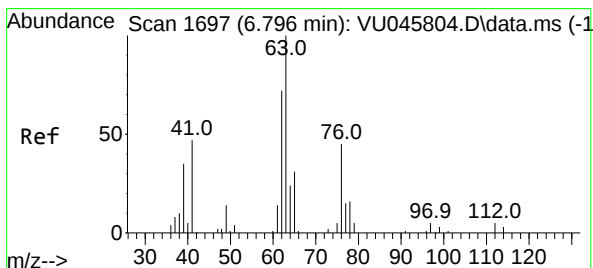
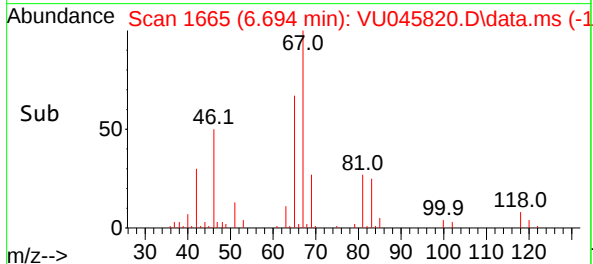
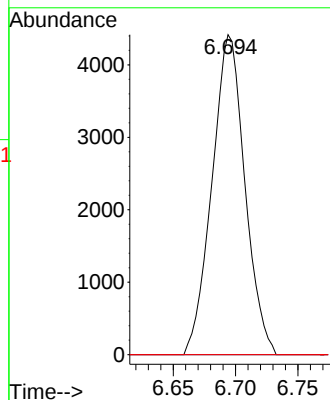
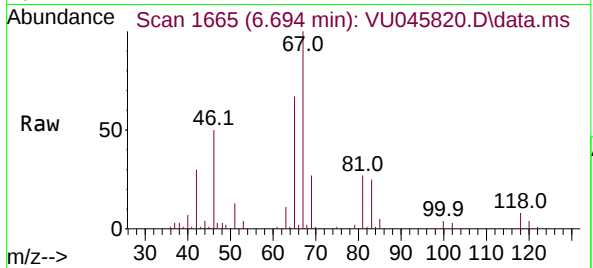




#35  
Methylcyclohexane  
Concen: 0.730 ug/L  
RT: 6.694 min Scan# 1665  
Delta R.T. -0.074 min  
Lab File: VU045820.D  
Acq: 16 Nov 2021 20:26

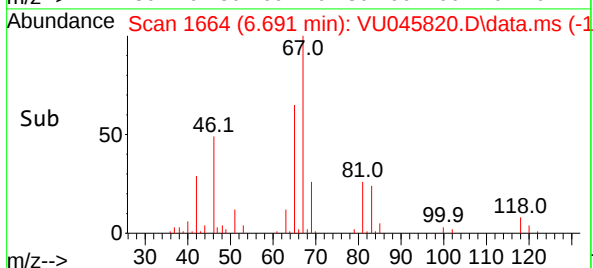
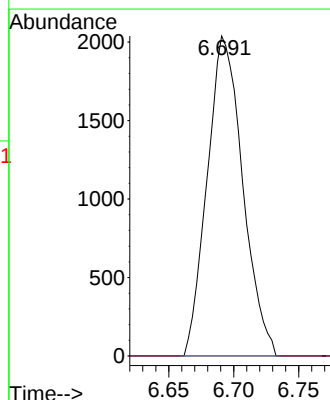
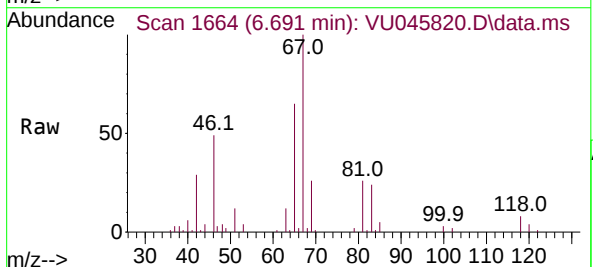
Instrument :  
MSVOA\_U  
ClientSampleId :

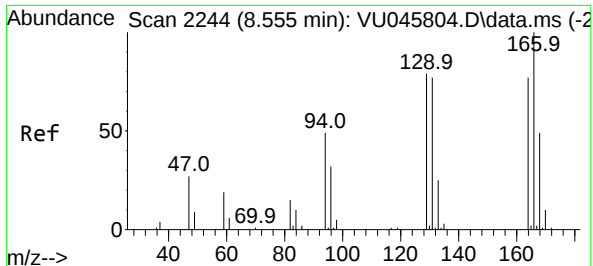
Tgt Ion: 83 Resp: 8111  
Ion Ratio Lower Upper  
83 100  
55 0.0 61.9 92.9#  
98 0.9 39.0 58.6#



#37  
1,2-Dichloropropane  
Concen: 0.524 ug/L  
RT: 6.691 min Scan# 1664  
Delta R.T. -0.106 min  
Lab File: VU045820.D  
Acq: 16 Nov 2021 20:26

Tgt Ion: 63 Resp: 3873  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.2 4.8#





#47

Tetrachloroethene

Concen: 5.308 ug/L

RT: 8.556 min Scan# 2244

Delta R.T. 0.000 min

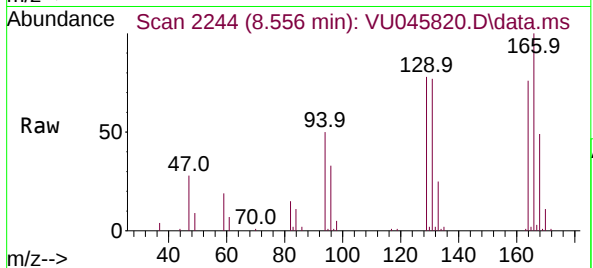
Lab File: VU045820.D

Acq: 16 Nov 2021 20:26

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:164 Resp: 26878

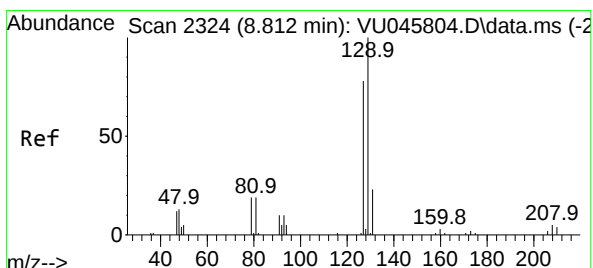
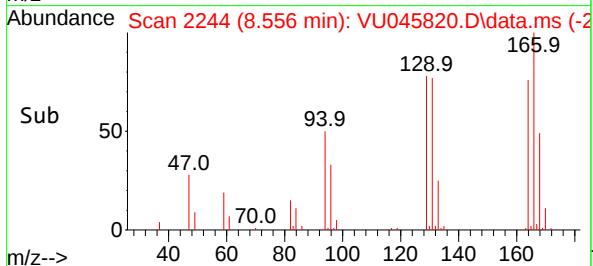
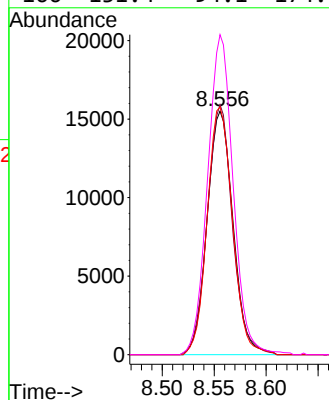
Ion Ratio Lower Upper

164 100

129 102.7 71.8 133.4

131 101.7 68.5 127.3

166 131.4 94.1 174.8



#49

Dibromochloromethane

Concen: 4.293 ug/L

RT: 8.556 min Scan# 2244

Delta R.T. -0.257 min

Lab File: VU045820.D

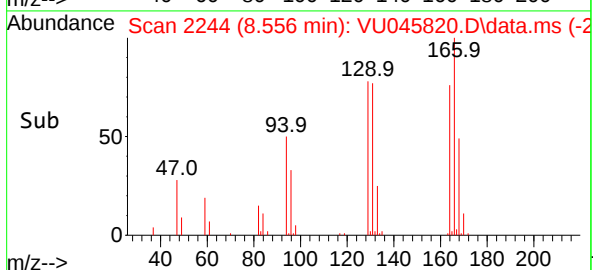
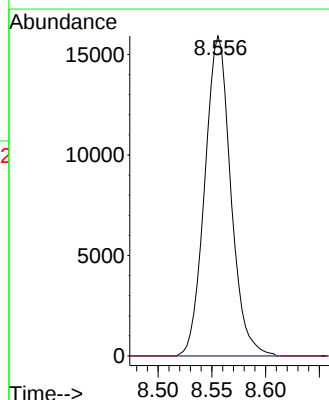
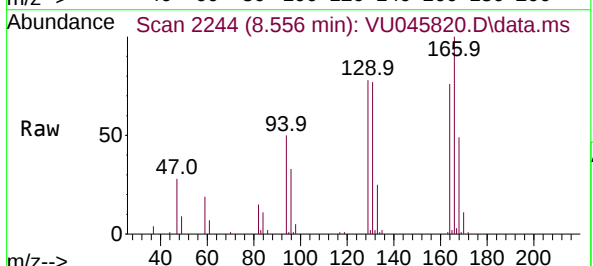
Acq: 16 Nov 2021 20:26

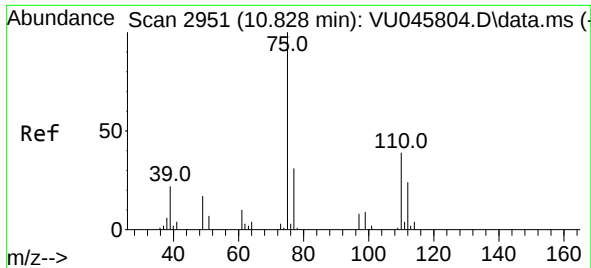
Tgt Ion:129 Resp: 26812

Ion Ratio Lower Upper

129 100

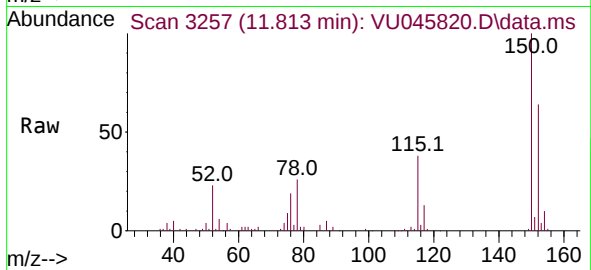
127 0.0 55.4 102.8#





#61  
 1,2,3-Trichloropropane  
 Concen: 1.257 ug/L  
 RT: 11.813 min Scan# 31  
 Delta R.T. 0.984 min  
 Lab File: VU045820.D  
 Acq: 16 Nov 2021 20:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :



Tgt Ion: 75 Resp: 6037  
 Ion Ratio Lower Upper  
 75 100  
 110 1.7 29.9 44.9#  
 77 32.0 25.5 38.3

