

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111821\  
 Data File : VU045877.D  
 Acq On : 18 Nov 2021 18:44  
 Operator : SY/MD  
 Sample : M4664-13DL 10X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 19 00:55:54 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111521WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Nov 19 00:50:55 2021  
 Response via : Initial Calibration

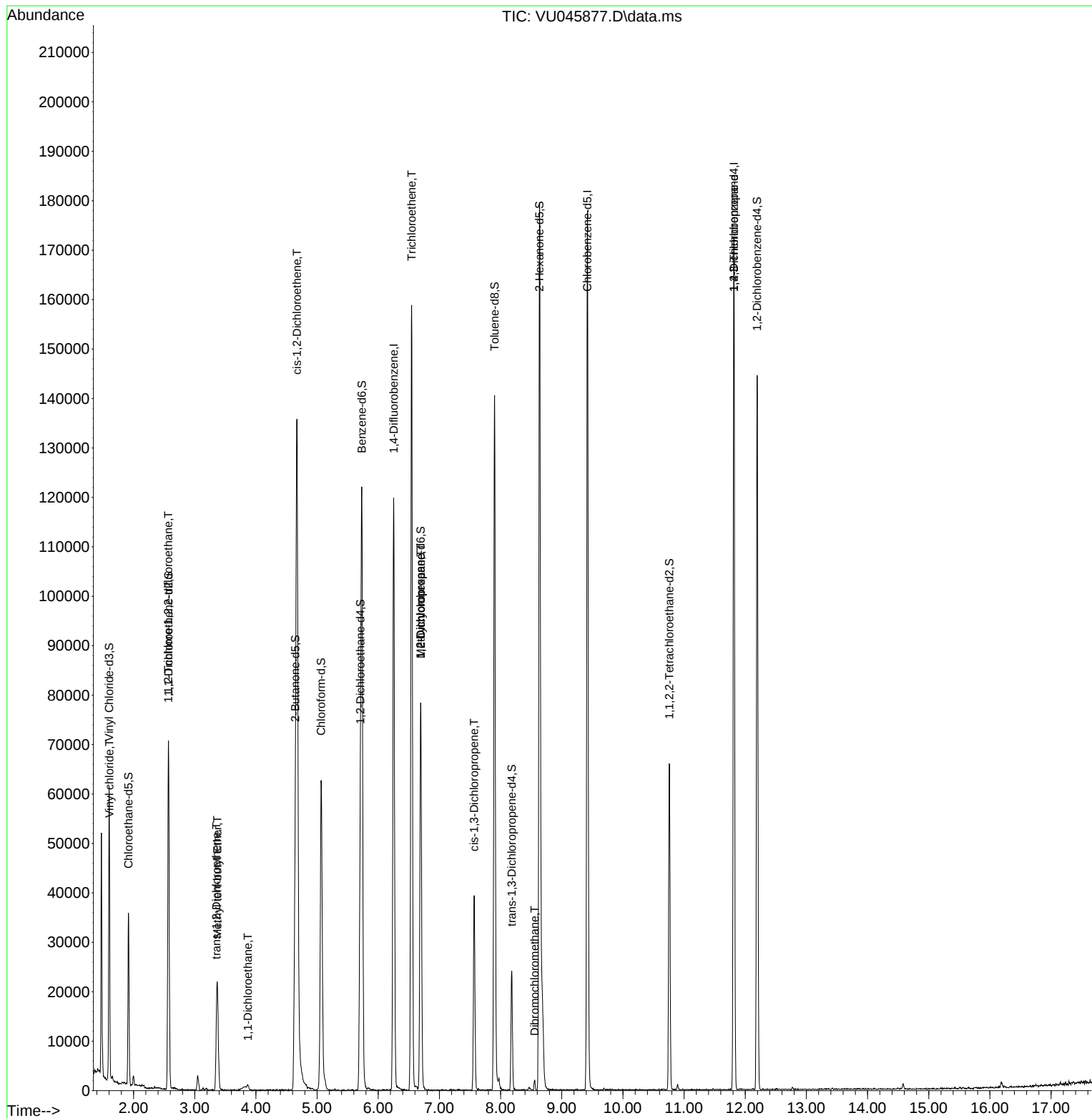
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253  | 114   | 95564    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420  | 117   | 98892    | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.815 | 152   | 45624    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600  | 65    | 30524    | 4.031    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 80.600%  |
| 7) Chloroethane-d5            | 1.916  | 69    | 25260    | 4.583    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 91.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.571  | 65    | 13481    | 4.245    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 85.000%  |
| 20) 2-Butanone-d5             | 4.645  | 46    | 102956   | 50.741   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 101.480% |
| 24) Chloroform-d              | 5.067  | 84    | 56468    | 4.477    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.706  | 65    | 34030    | 4.598    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 92.000%  |
| 32) Benzene-d6                | 5.732  | 84    | 114228   | 4.194    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 83.800%  |
| 36) 1,2-Dichloropropane-d6    | 6.694  | 67    | 38325    | 4.465    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 89.400%  |
| 41) Toluene-d8                | 7.902  | 98    | 96094    | 3.901    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 78.000%  |
| 43) trans-1,3-Dichloroprop... | 8.182  | 79    | 13896    | 3.988    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 79.800%  |
| 46) 2-Hexanone-d5             | 8.636  | 63    | 63434    | 40.449   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 80.900%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758 | 84    | 32665    | 4.505    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 90.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152   | 37145    | 4.742    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 94.800%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.607  | 62    | 8525     | 1.030    | ug/L   | 96       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.568  | 101   | 346      | 0.055    | ug/L # | 21       |
| 17) Methyl tert-butyl Ether   | 3.369  | 73    | 21851    | 1.419    | ug/L   | 98       |
| 18) trans-1,2-Dichloroethene  | 3.356  | 96    | 1825     | 0.288    | ug/L   | 89       |
| 19) 1,1-Dichloroethane        | 3.870  | 63    | 1124     | 0.095    | ug/L # | 88       |
| 22) cis-1,2-Dichloroethene    | 4.671  | 96    | 57614    | 8.380    | ug/L   | 99       |
| 34) Trichloroethene           | 6.546  | 95    | 53644    | 7.543    | ug/L   | 99       |
| 35) Methylcyclohexane         | 6.694  | 83    | 8937     | 0.818    | ug/L # | 18       |
| 37) 1,2-Dichloropropane       | 6.694  | 63    | 3711     | 0.511    | ug/L # | 88       |
| 39) cis-1,3-Dichloropropene   | 7.568  | 75    | 1003     | 0.097    | ug/L # | 57       |
| 49) Dibromochloromethane      | 8.555  | 129   | 446      | 0.073    | ug/L # | 10       |
| 61) 1,2,3-Trichloropropane    | 11.815 | 75    | 5911     | 1.248    | ug/L # | 65       |
| -----                         |        |       |          |          |        |          |

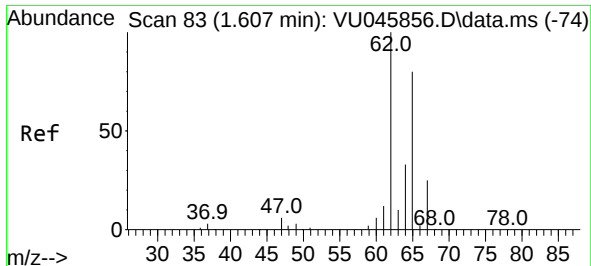
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111821\  
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MSVOA\_U  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR111521WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Nov 19 00:50:55 2021  
Response via : Initial Calibration

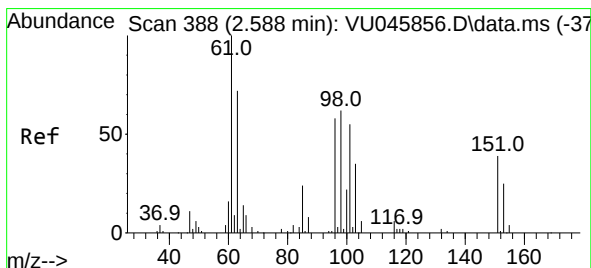
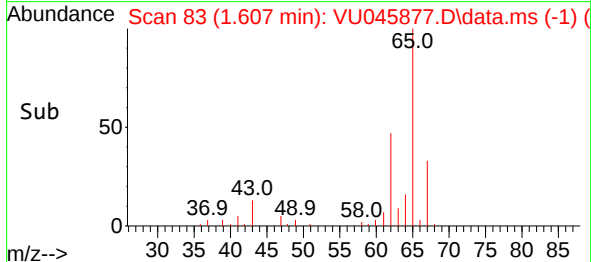
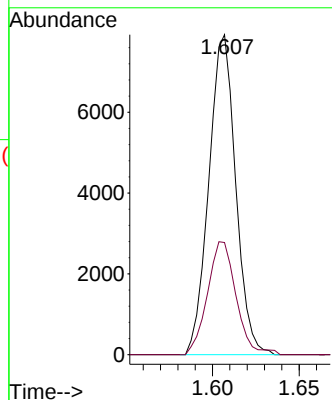
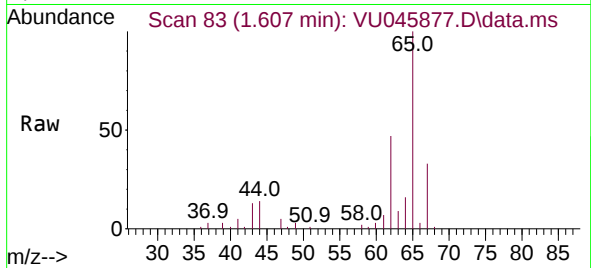




#5  
 Vinyl chloride  
 Concen: 1.030 ug/L  
 RT: 1.607 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VU045877.D  
 Acq: 18 Nov 2021 18:44

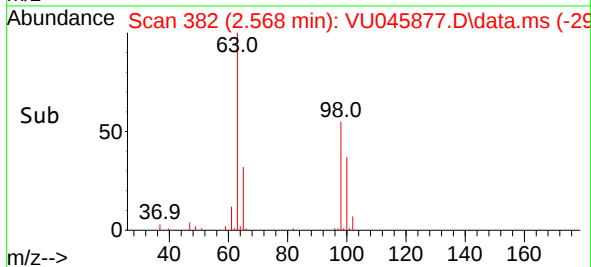
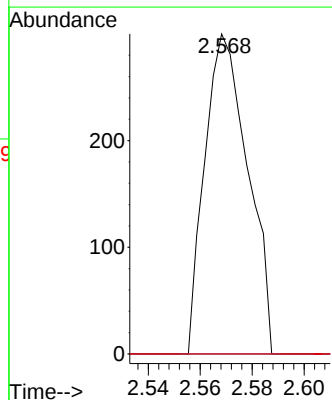
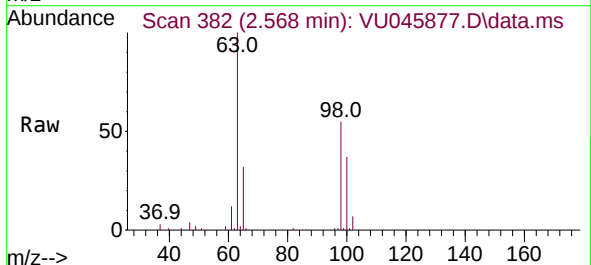
Instrument :  
 MSVOA\_U  
 ClientSampleId :

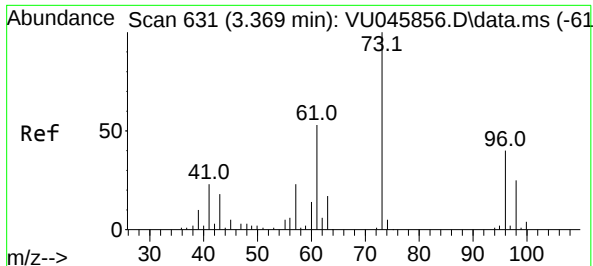
Tgt Ion: 62 Resp: 8525  
 Ion Ratio Lower Upper  
 62 100  
 64 35.1 22.9 42.5



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.055 ug/L  
 RT: 2.568 min Scan# 382  
 Delta R.T. -0.019 min  
 Lab File: VU045877.D  
 Acq: 18 Nov 2021 18:44

Tgt Ion: 101 Resp: 346  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 34.6 51.8#  
 151 0.0 56.1 84.1#





#17

Methyl tert-butyl Ether

Concen: 1.419 ug/L

RT: 3.369 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU045877.D

Acq: 18 Nov 2021 18:44

Instrument :

MSVOA\_U

ClientSampleId :

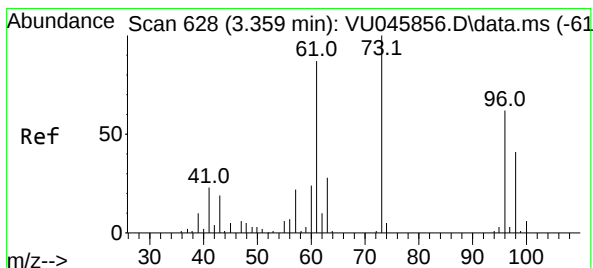
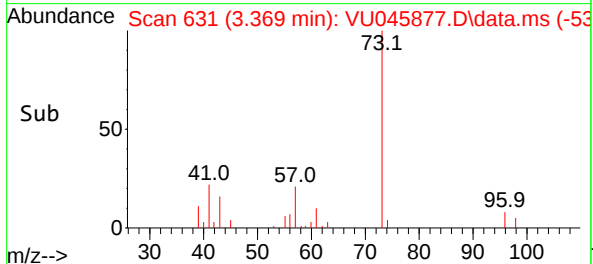
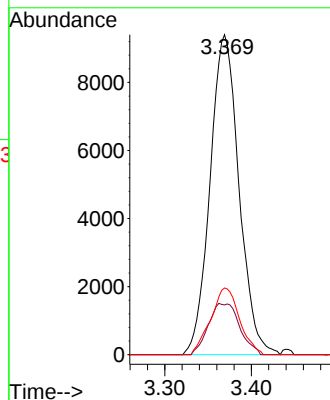
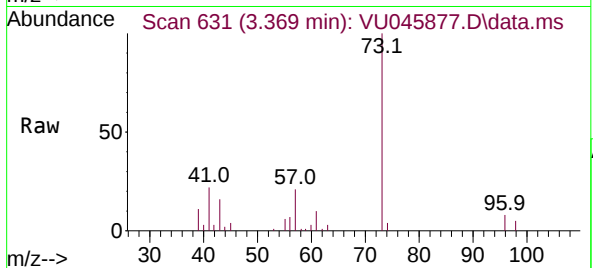
Tgt Ion: 73 Resp: 21851

Ion Ratio Lower Upper

73 100

43 17.3 14.8 22.2

57 20.7 17.4 26.0



#18

trans-1,2-Dichloroethene

Concen: 0.288 ug/L

RT: 3.356 min Scan# 627

Delta R.T. -0.003 min

Lab File: VU045877.D

Acq: 18 Nov 2021 18:44

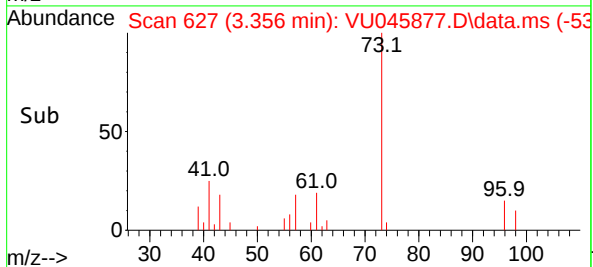
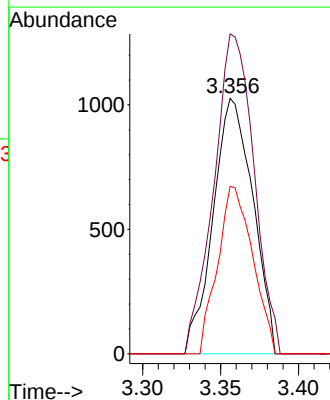
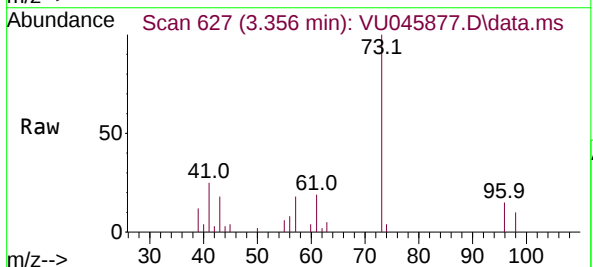
Tgt Ion: 96 Resp: 1825

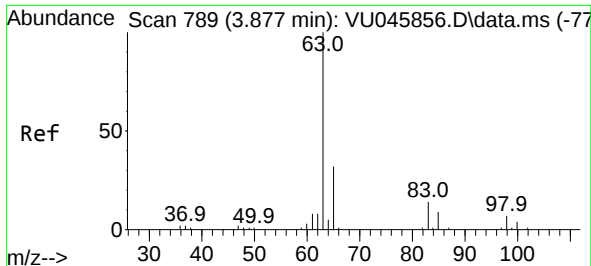
Ion Ratio Lower Upper

96 100

61 125.2 100.8 187.2

98 65.6 45.1 83.7





#19

1,1-Dichloroethane

Concen: 0.095 ug/L

RT: 3.870 min Scan# 71

Delta R.T. -0.006 min

Lab File: VU045877.D

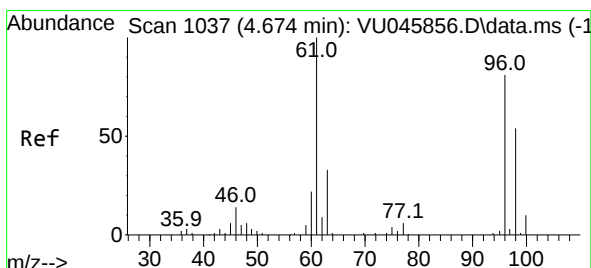
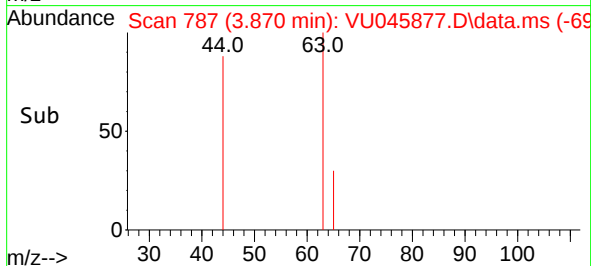
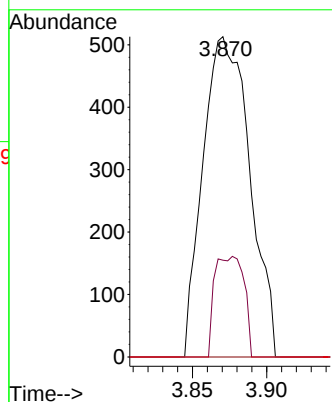
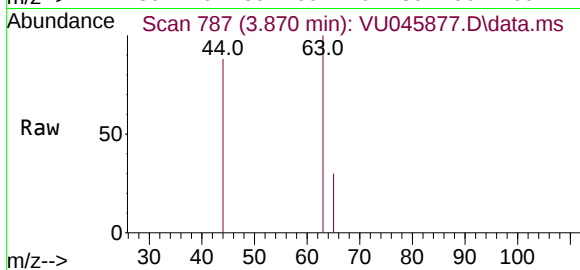
Acq: 18 Nov 2021 18:44

Instrument :

MSVOA\_U

ClientSampleId :

|             |                |
|-------------|----------------|
| Tgt Ion: 63 | Resp: 1124     |
| Ion Ratio   | Lower Upper    |
| 63          | 100            |
| 65          | 30.2 22.3 41.5 |
| 83          | 0.0 9.6 17.8#  |



#22

cis-1,2-Dichloroethene

Concen: 8.380 ug/L

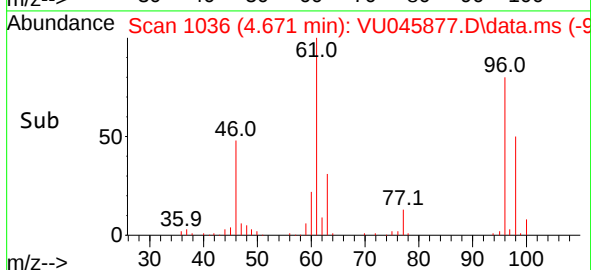
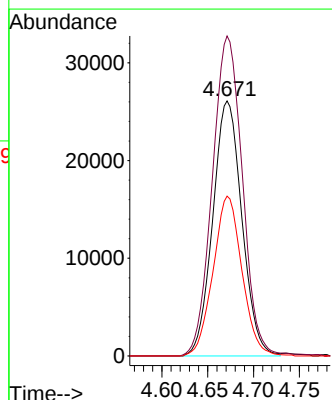
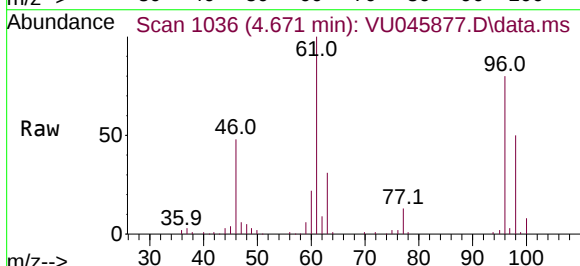
RT: 4.671 min Scan# 1036

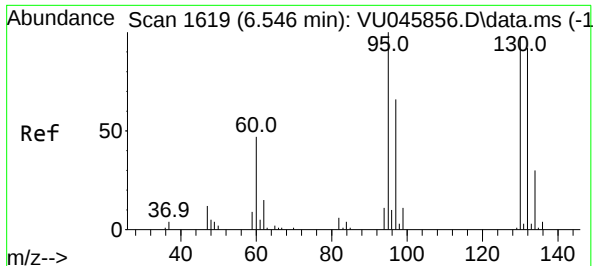
Delta R.T. -0.003 min

Lab File: VU045877.D

Acq: 18 Nov 2021 18:44

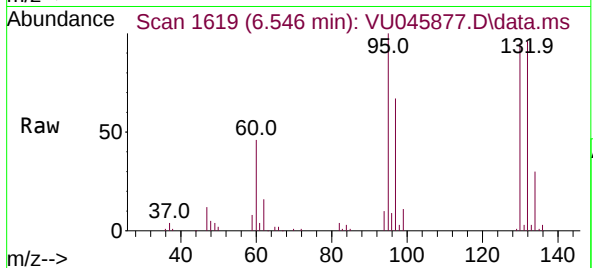
|             |                  |
|-------------|------------------|
| Tgt Ion: 96 | Resp: 57614      |
| Ion Ratio   | Lower Upper      |
| 96          | 100              |
| 61          | 125.4 88.5 164.3 |
| 98          | 62.7 44.4 82.5   |





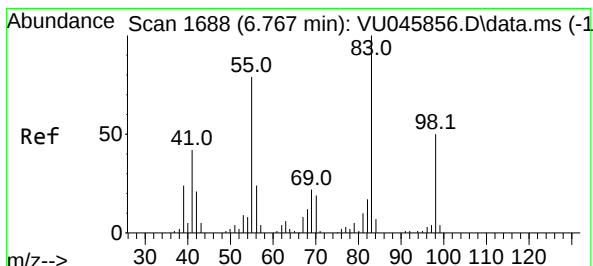
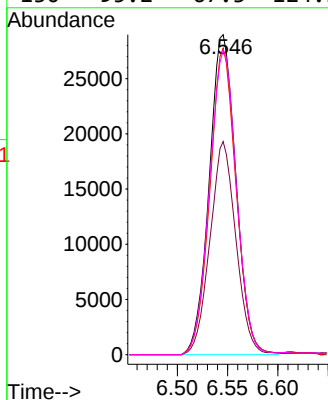
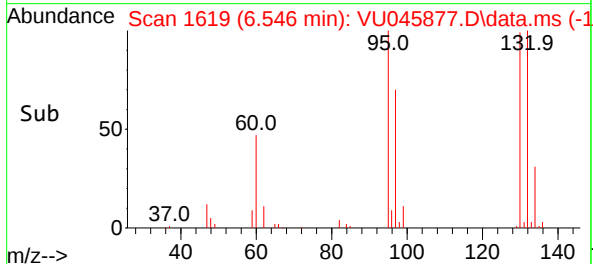
#34  
Trichloroethene  
Concen: 7.543 ug/L  
RT: 6.546 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VU045877.D  
Acq: 18 Nov 2021 18:44

Instrument :  
MSVOA\_U  
ClientSampleId :

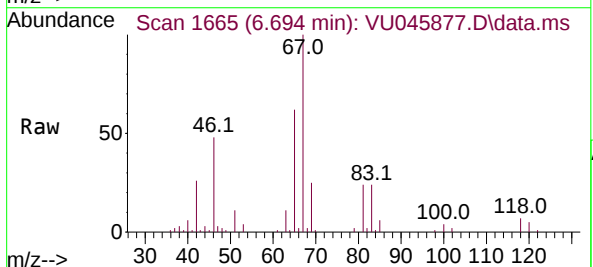


Tgt Ion: 95 Resp: 53644

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.6  | 46.5  | 86.5  |
| 132 | 95.8  | 65.1  | 120.9 |
| 130 | 95.2  | 67.3  | 124.9 |

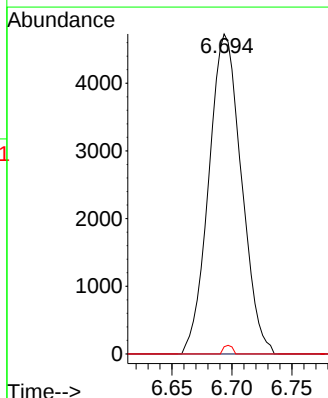
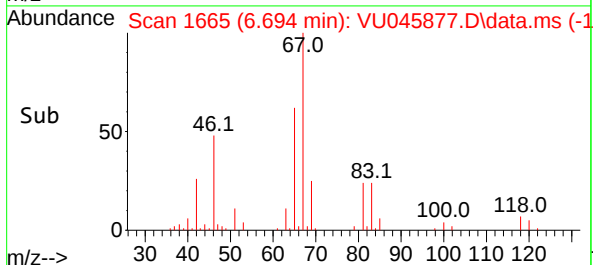


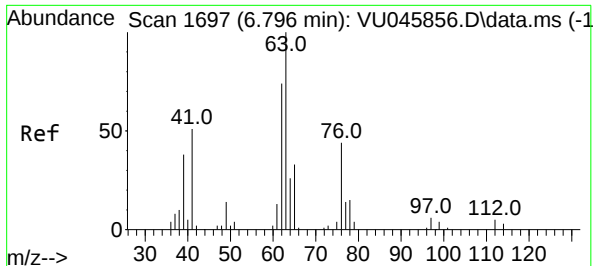
#35  
Methylcyclohexane  
Concen: 0.818 ug/L  
RT: 6.694 min Scan# 1665  
Delta R.T. -0.074 min  
Lab File: VU045877.D  
Acq: 18 Nov 2021 18:44



Tgt Ion: 83 Resp: 8937

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.0   | 61.9  | 92.9# |
| 98  | 0.7   | 39.0  | 58.6# |





#37

1,2-Dichloropropane

Concen: 0.511 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU045877.D

Acq: 18 Nov 2021 18:44

Instrument :

MSVOA\_U

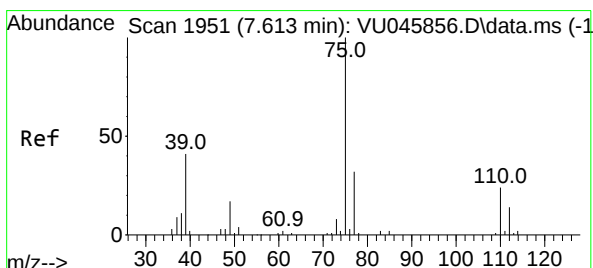
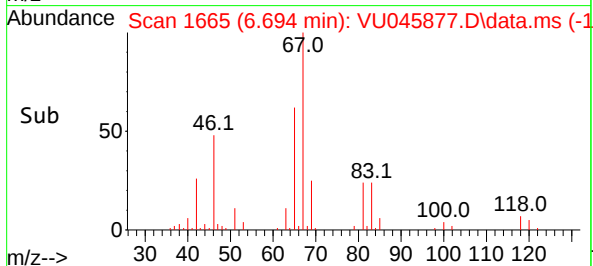
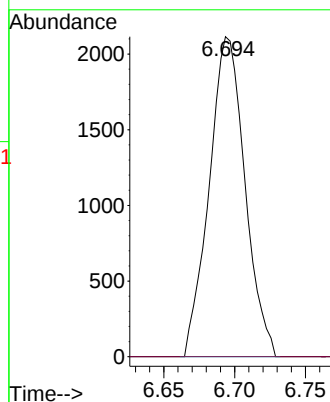
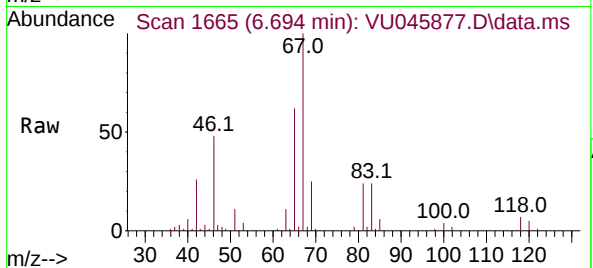
ClientSampleId :

Tgt Ion: 63 Resp: 3711

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.097 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.045 min

Lab File: VU045877.D

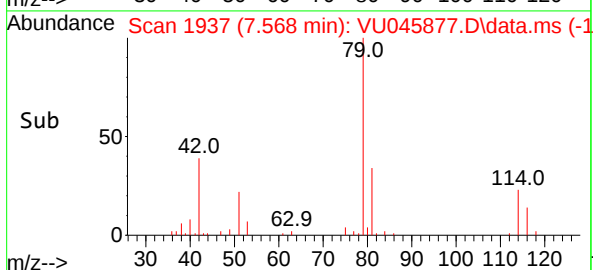
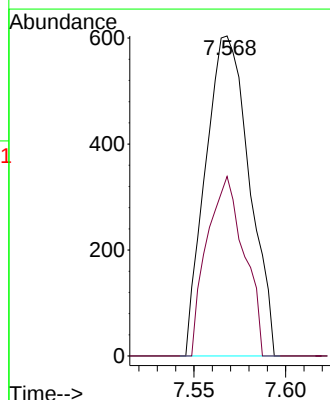
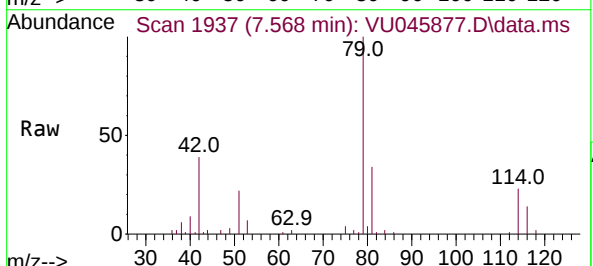
Acq: 18 Nov 2021 18:44

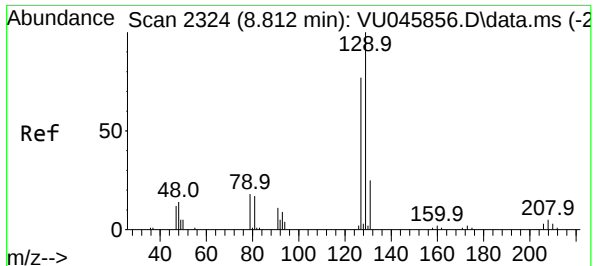
Tgt Ion: 75 Resp: 1003

Ion Ratio Lower Upper

75 100

77 56.1 22.5 41.9#





#49

Dibromochloromethane

Concen: 0.073 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU045877.D

Acq: 18 Nov 2021 18:44

Instrument :

MSVOA\_U

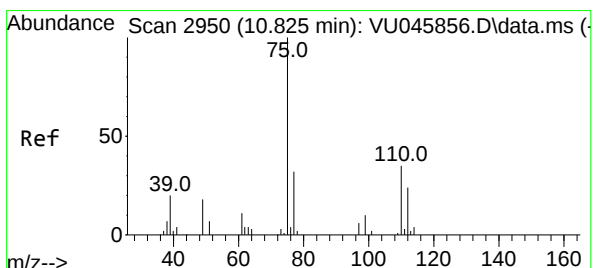
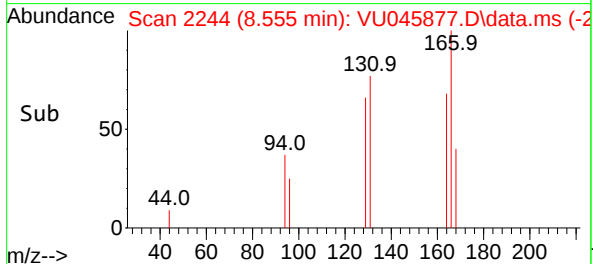
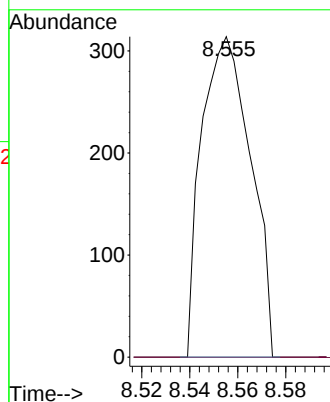
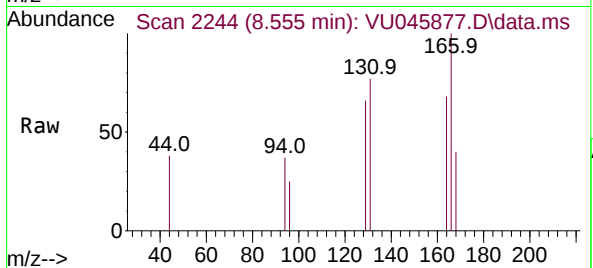
ClientSampleId :

Tgt Ion:129 Resp: 446

Ion Ratio Lower Upper

129 100

127 0.0 55.4 102.8#



#61

1,2,3-Trichloropropane

Concen: 1.248 ug/L

RT: 11.815 min Scan# 3258

Delta R.T. 0.990 min

Lab File: VU045877.D

Acq: 18 Nov 2021 18:44

Tgt Ion: 75 Resp: 5911

Ion Ratio Lower Upper

75 100

110 1.0 29.9 44.9#

77 29.0 25.5 38.3

