

Data File : VU029622.D  
Acq On : 22 Feb 2019 15:45  
Operator : JC/SP  
Sample : K1581-07MSD  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 20 Sample Multiplier: 2

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB617MSD

Quant Time: Feb 22 22:19:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Feb 22 22:13:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 467230   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 460711   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 225990   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 134141   | 39.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 78.36%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 124506   | 40.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 81.82%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 214086   | 31.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 63.98%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 213800   | 102.62   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.62% |
| 24) Chloroform-d               | 4.65    | 84    | 260267   | 46.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.74%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 167142   | 47.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.08%  |
| 32) Benzene-d6                 | 5.34    | 84    | 541420   | 46.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 170293   | 48.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.66%  |
| 41) Toluene-d8                 | 7.56    | 98    | 512367   | 43.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.62%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 80696    | 43.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.24%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 179953   | 92.65    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.65%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 263896   | 44.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.56%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 222934   | 45.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.56%  |

#### Target Compounds

|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 6) Bromomethane                | 1.62  | 94  | 504    | 0.579 ug/L # | 63     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 1862   | 1.144 ug/L # | 17     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 71523  | 46.232 ug/L  | 93     |
| 13) Acetone                    | 2.32  | 43  | 2196   | 1.973 ug/L   | 67     |
| 25) Chloroform                 | 4.67  | 83  | 3000   | 1.089 ug/L   | 85     |
| 27) 1,2-Dichloroethane         | 5.39  | 62  | 2652   | 1.252 ug/L # | 73     |
| 33) Benzene                    | 5.39  | 78  | 314948 | 53.327 ug/L  | 100    |
| 34) Trichloroethene            | 6.18  | 95  | 81801  | 51.415 ug/L  | 98     |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 4664   | 1.865 ug/L # | 63     |
| 40) 4-Methyl-2-pentanone       | 7.56  | 43  | 1901   | 0.872 ug/L # | 1      |
| 42) Toluene                    | 7.63  | 91  | 354290 | 50.726 ug/L  | 99     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3225   | 1.368 ug/L   | 91     |
| 48) 2-Hexanone                 | 8.31  | 43  | 18693  | 9.815 ug/L # | 65     |
| 51) Chlorobenzene              | 9.12  | 112 | 237764 | 49.599 ug/L  | 100    |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 23013  | 10.411 ug/L  | 91     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU022219\  
Quantitation Report (Not Reviewed)

Data File : VU029622.D  
Acq On : 22 Feb 2019 15:45  
Operator : JC/SP  
Sample : K1581-07MSD  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 20 Sample Multiplier: 2

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB617MSD

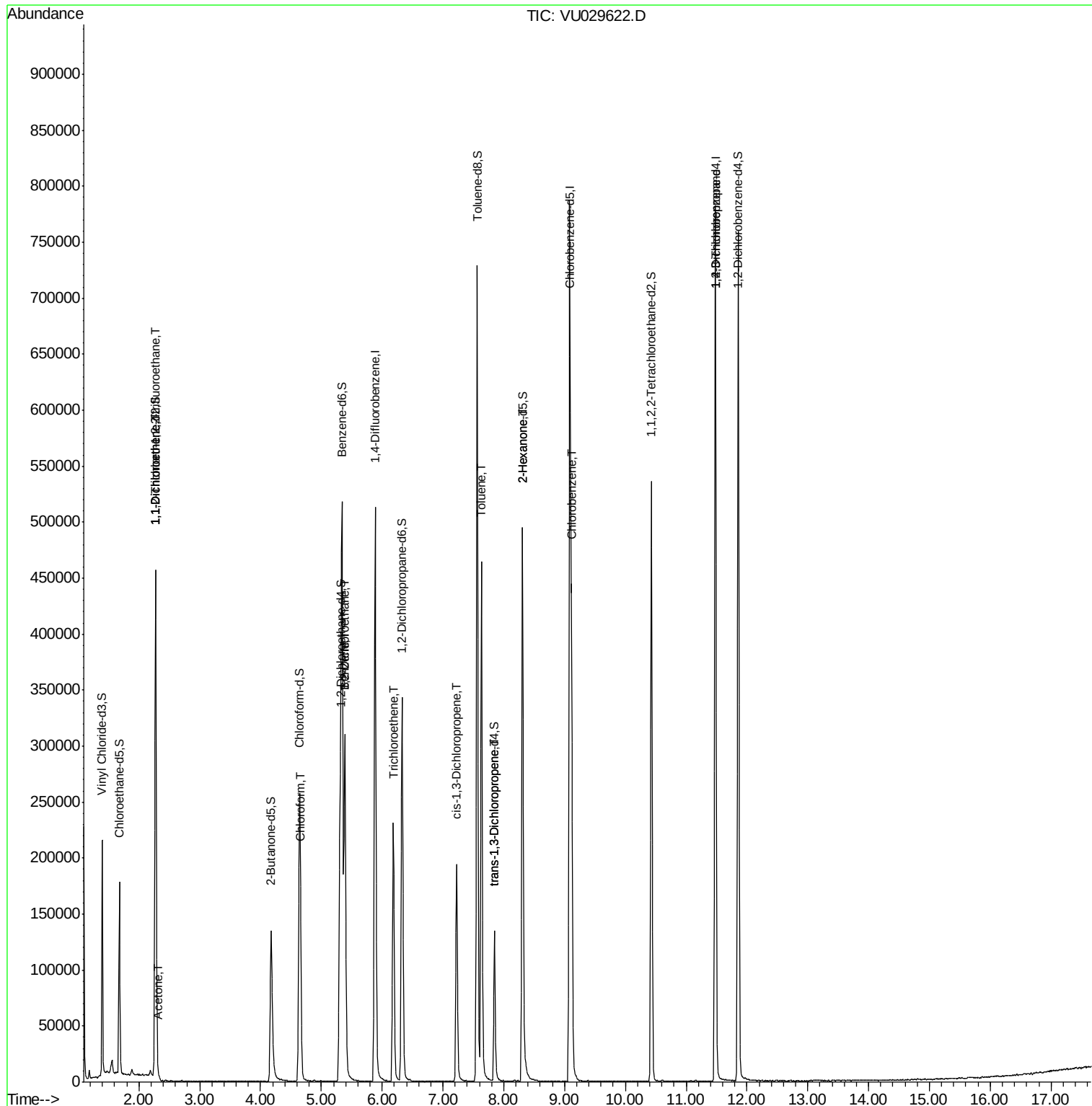
Quant Time: Feb 22 22:19:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Feb 22 22:13:56 2019  
Response via : Initial Calibration

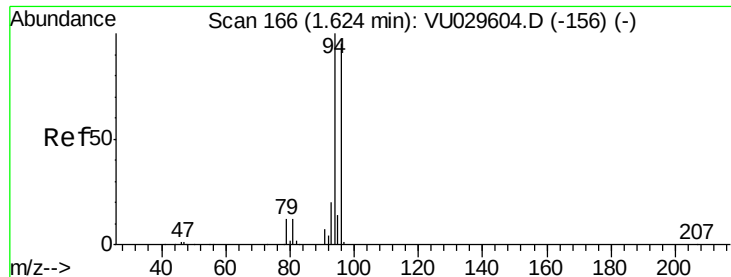
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

Data File : VU029622.D  
Acq On : 22 Feb 2019 15:45  
Operator : JC/SP  
Sample : K1581-07MSD  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 20 Sample Multiplier: 2

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB617MSD

Quant Time: Feb 22 22:19:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Feb 22 22:13:56 2019  
Response via : Initial Calibration





#6

Bromomethane

Concen: 0.579 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU029622.D

Acq: 22 Feb 2019 15:45

Instrument :

MSVOA\_U

ClientSampleId :

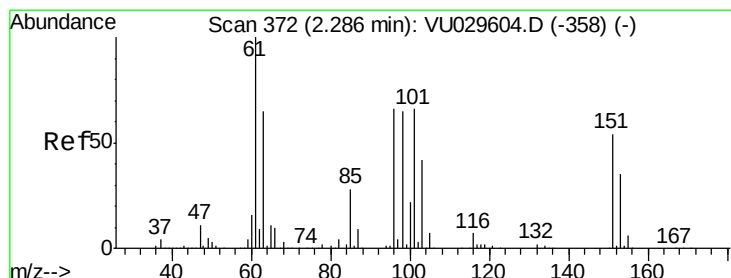
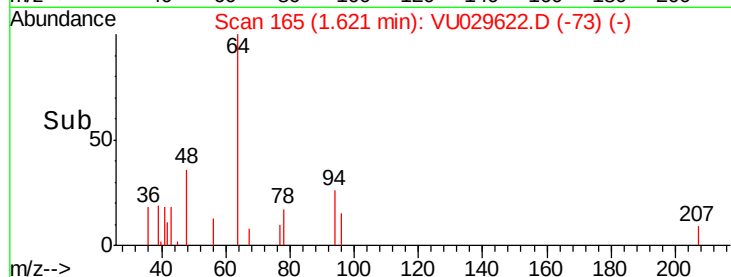
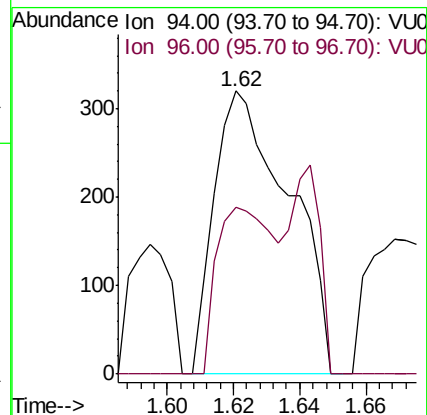
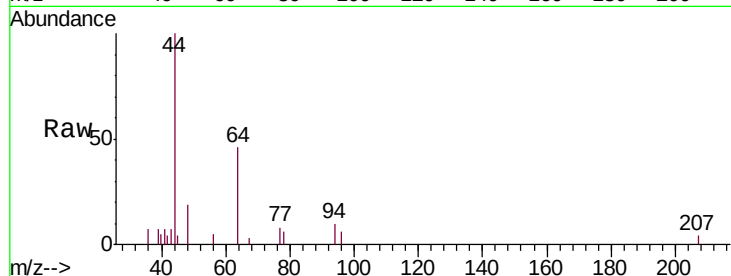
DB617MSD

Tgt Ion: 94 Resp: 504

Ion Ratio Lower Upper

94 100

96 58.7 66.4 123.2#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.144 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU029622.D

Acq: 22 Feb 2019 15:45

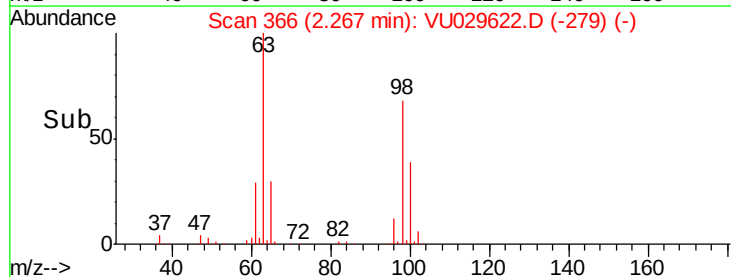
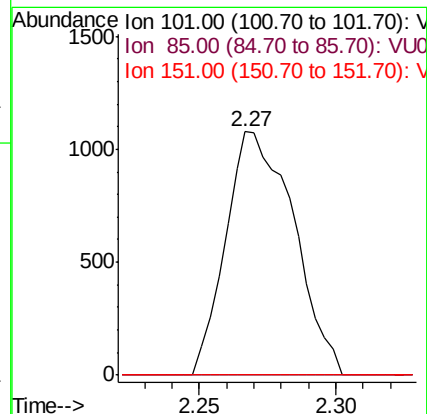
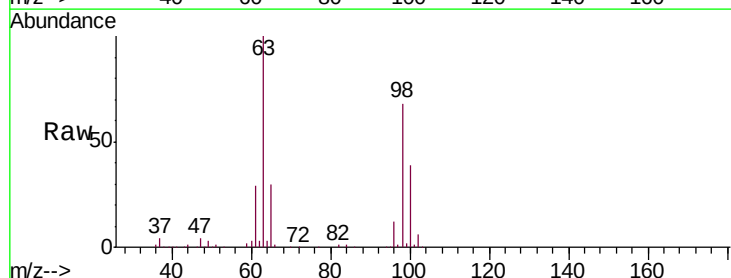
Tgt Ion: 101 Resp: 1862

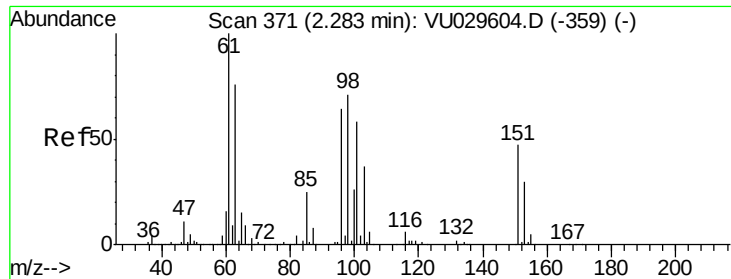
Ion Ratio Lower Upper

101 100

85 0.0 33.0 49.6#

151 0.0 65.7 98.5#

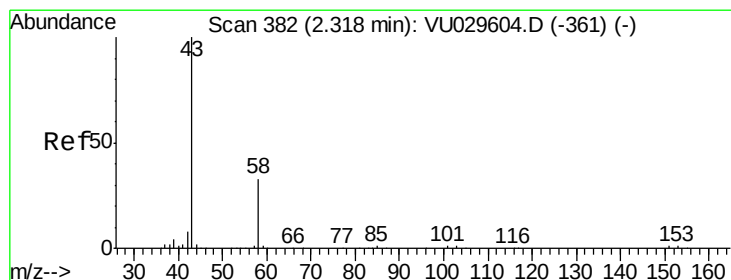
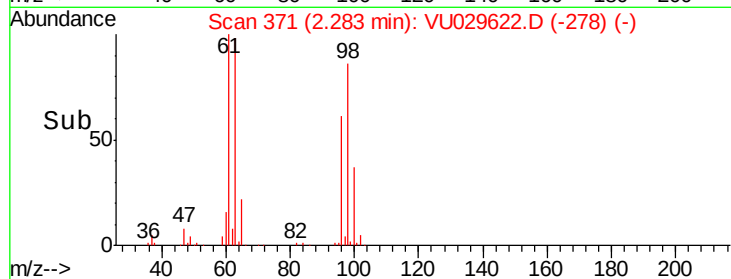
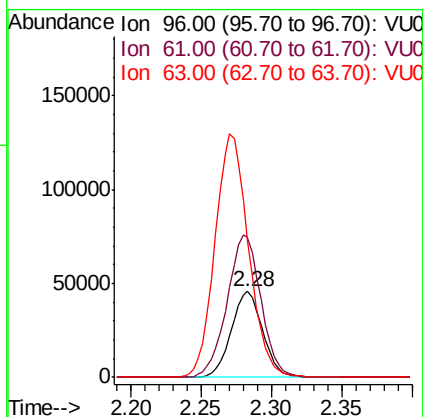
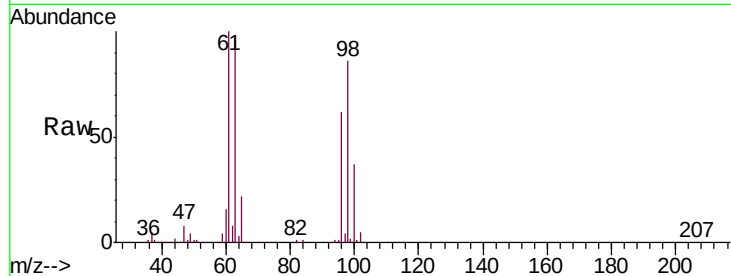




#12  
 1,1-Dichloroethene  
 Concen: 46.232 ug/L  
 RT: 2.28 min Scan# 371  
 Delta R.T. -0.00 min  
 Lab File: VU029622.D  
 Acq: 22 Feb 2019 15:45

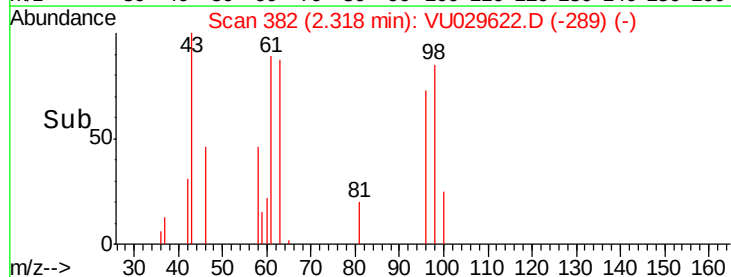
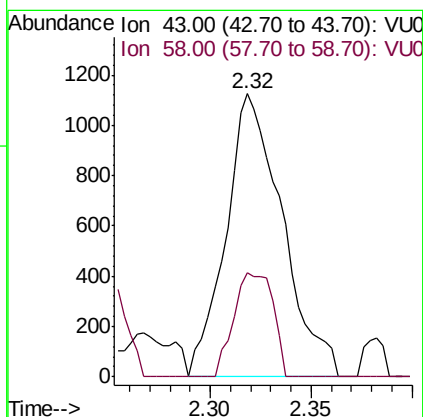
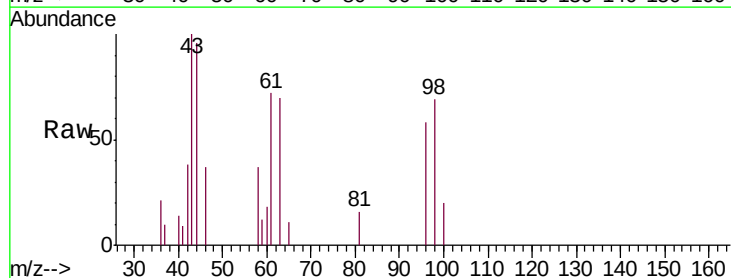
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB617MSD

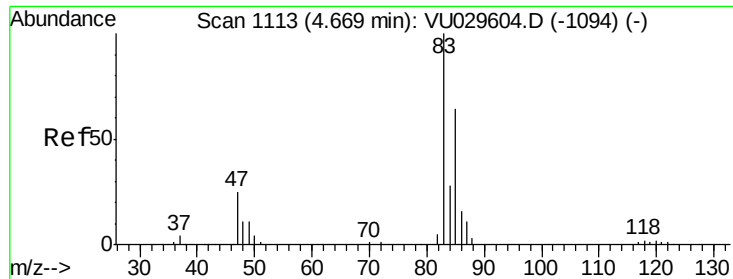
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 162.5 | 114.0 | 211.8 |
| 63      | 159.6 | 98.7  | 183.3 |



#13  
 Acetone  
 Concen: 1.973 ug/L  
 RT: 2.32 min Scan# 382  
 Delta R.T. -0.00 min  
 Lab File: VU029622.D  
 Acq: 22 Feb 2019 15:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 14.7  | 0.0   | 66.8  |

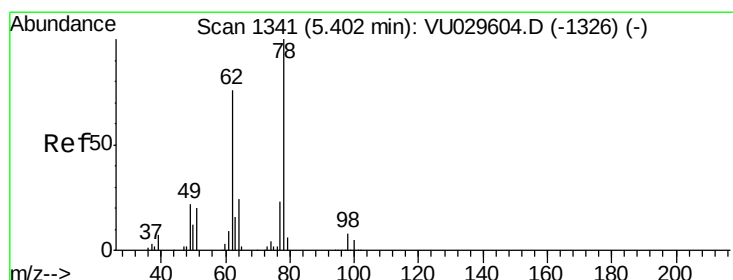
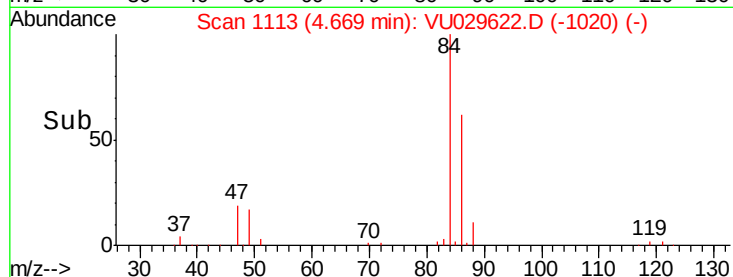
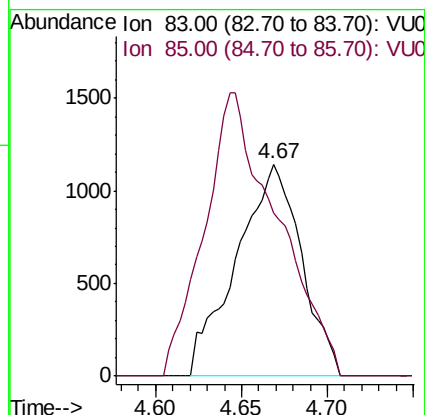
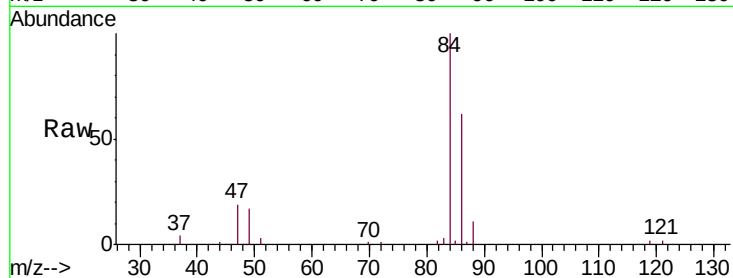




#25  
Chloroform  
Concen: 1.089 ug/L  
RT: 4.67 min Scan# 1113  
Delta R.T. -0.00 min  
Lab File: VU029622.D  
Acq: 22 Feb 2019 15:45

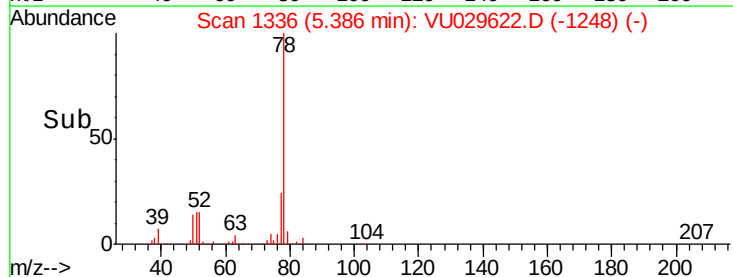
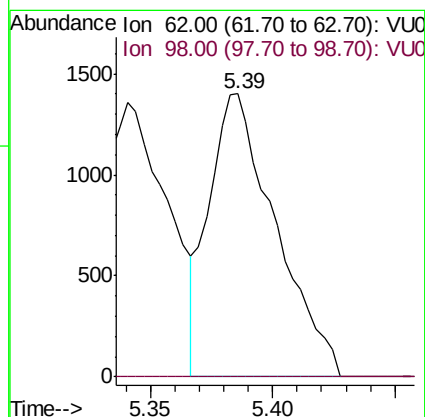
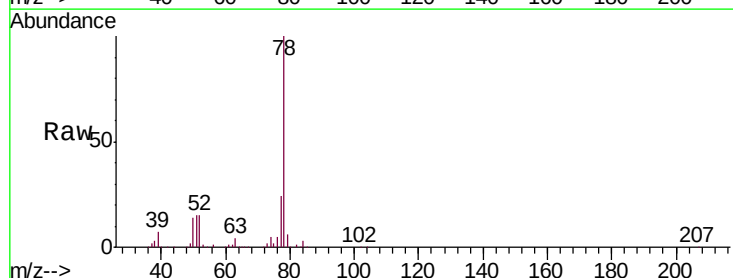
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB617MSD

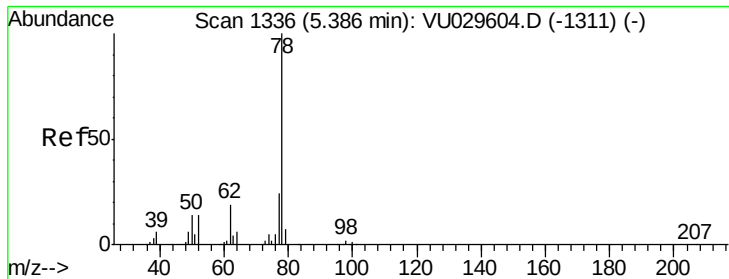
Tgt Ion: 83 Resp: 3000  
Ion Ratio Lower Upper  
83 100  
85 76.8 45.4 84.2



#27  
1,2-Dichloroethane  
Concen: 1.252 ug/L  
RT: 5.39 min Scan# 1336  
Delta R.T. -0.02 min  
Lab File: VU029622.D  
Acq: 22 Feb 2019 15:45

Tgt Ion: 62 Resp: 2652  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.8 11.8#





#33

Benzene

Concen: 53.327 ug/L

RT: 5.39 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU029622.D

Acq: 22 Feb 2019 15:45

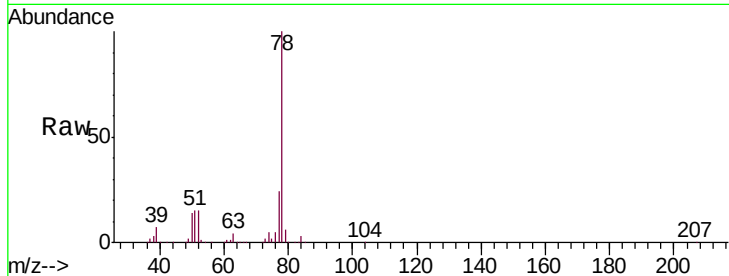
Instrument :

MSVOA\_U

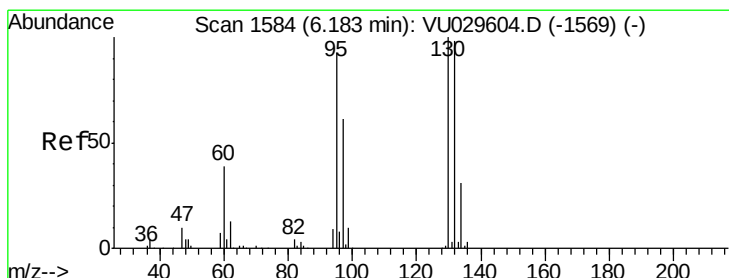
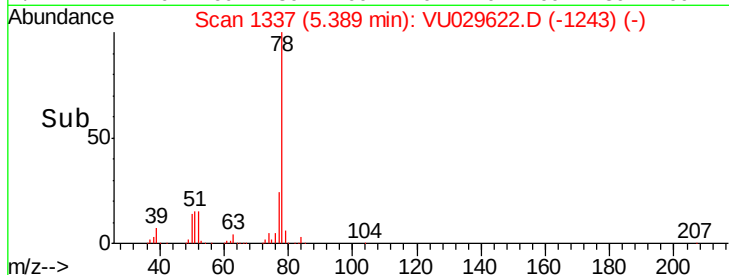
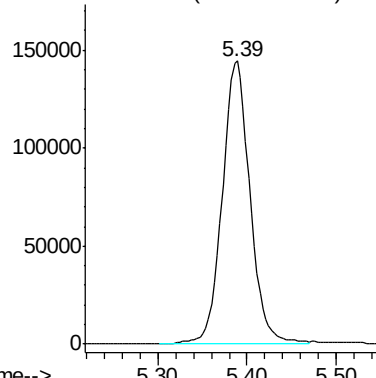
ClientSampleId :

DB617MSD

Tgt Ion: 78 Resp: 314948



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 51.415 ug/L

RT: 6.18 min Scan# 1584

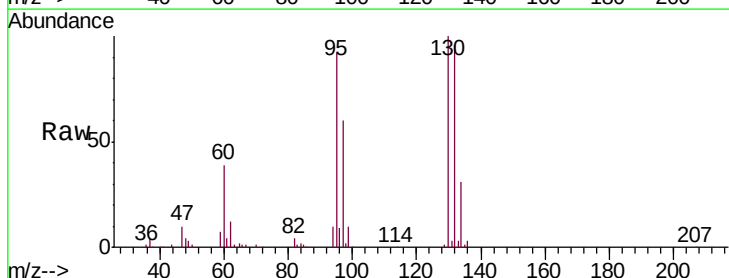
Delta R.T. -0.00 min

Lab File: VU029622.D

Acq: 22 Feb 2019 15:45

Tgt Ion: 95 Resp: 81801

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.3  | 44.6  | 82.8  |
| 132 | 104.1 | 74.6  | 138.6 |
| 130 | 108.3 | 77.2  | 143.4 |

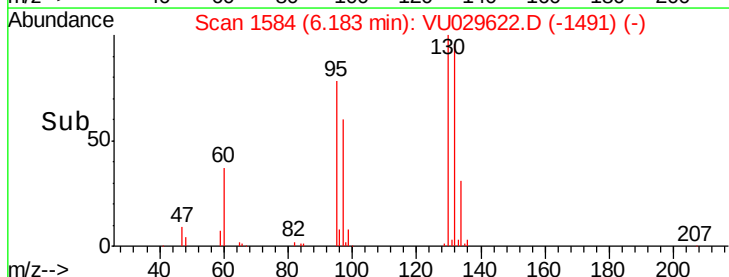
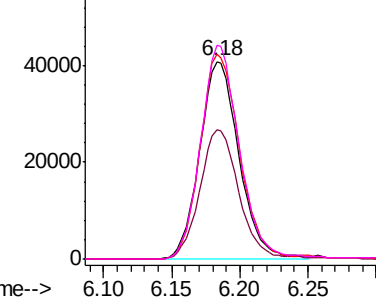


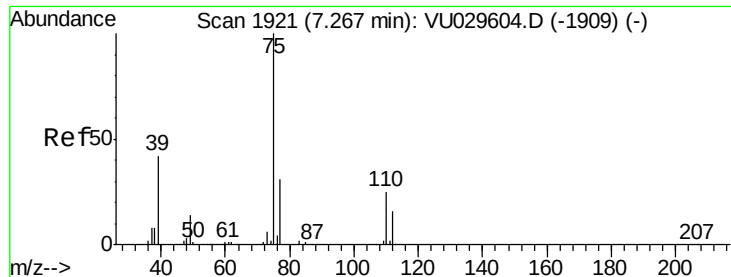
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

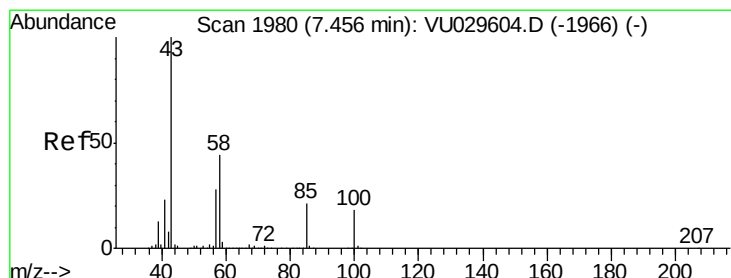
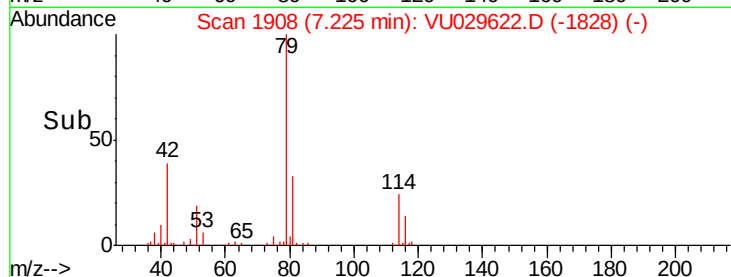
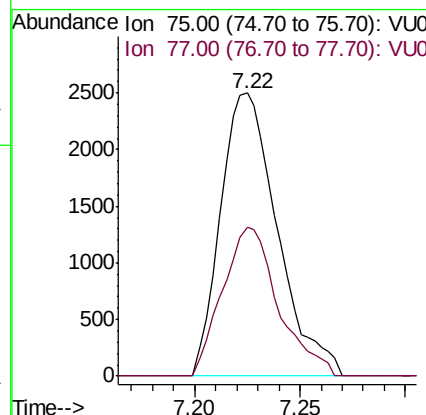
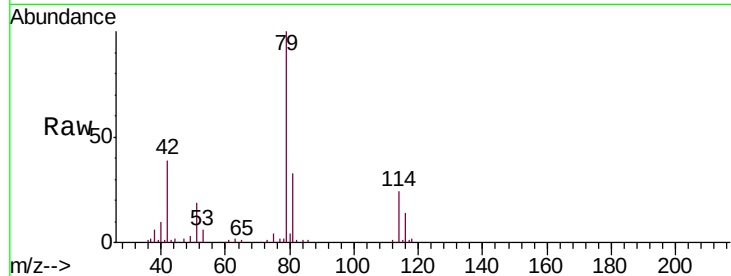




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.865 ug/L  
 RT: 7.22 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU029622.D  
 Acq: 22 Feb 2019 15:45

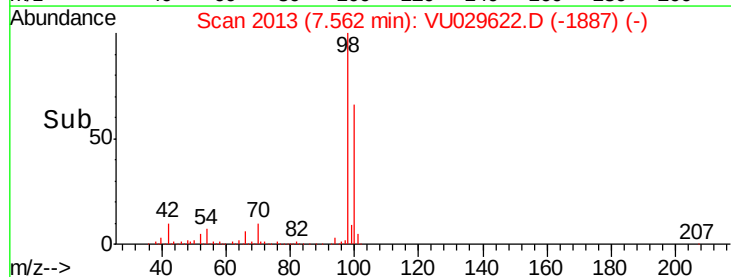
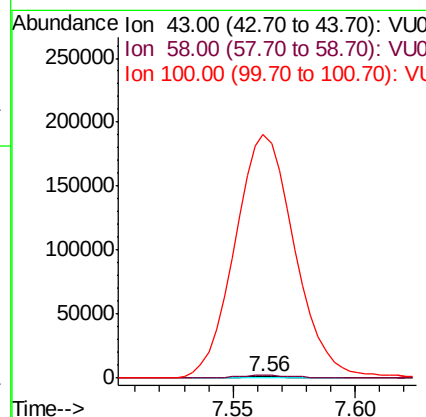
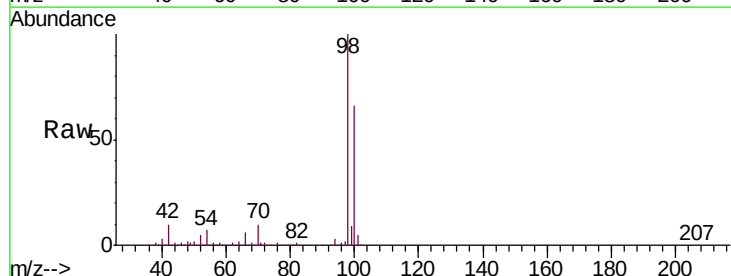
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB617MSD

Tgt Ion: 75 Resp: 4664  
 Ion Ratio Lower Upper  
 75 100  
 77 52.6 22.3 41.5#

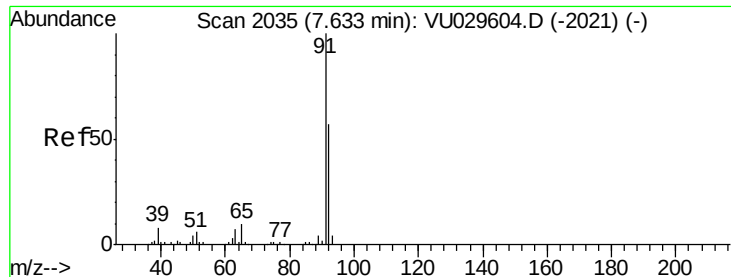


#40  
 4-Methyl-2-pentanone  
 Concen: 0.872 ug/L  
 RT: 7.56 min Scan# 2013  
 Delta R.T. 0.11 min  
 Lab File: VU029622.D  
 Acq: 22 Feb 2019 15:45

Tgt Ion: 43 Resp: 1901  
 Ion Ratio Lower Upper  
 43 100  
 58 195.4 33.0 49.4#  
 100 17225.9 14.5 21.7#







#42

Toluene

Concen: 50.726 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029622.D

Acq: 22 Feb 2019 15:45

Instrument :

MSVOA\_U

ClientSampleId :

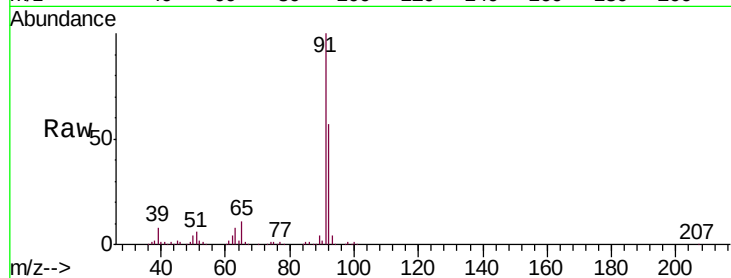
DB617MSD

Tgt Ion: 91 Resp: 354290

Ion Ratio Lower Upper

91 100

92 57.3 40.8 75.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.63

200000

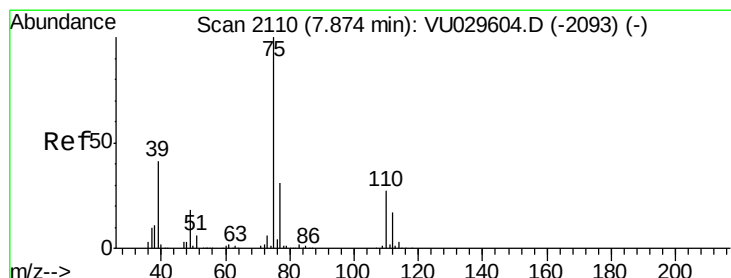
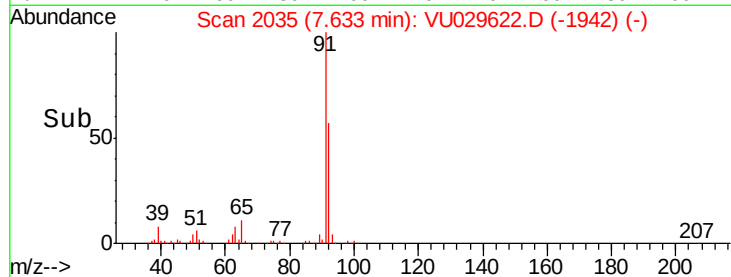
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 1.368 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU029622.D

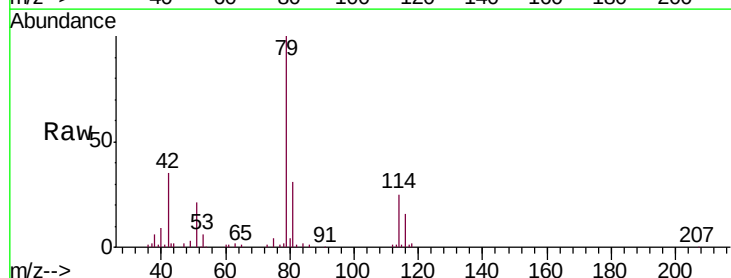
Acq: 22 Feb 2019 15:45

Tgt Ion: 75 Resp: 3225

Ion Ratio Lower Upper

75 100

77 36.8 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.85

2000

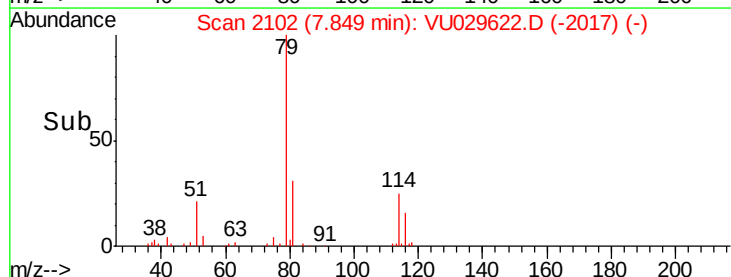
1500

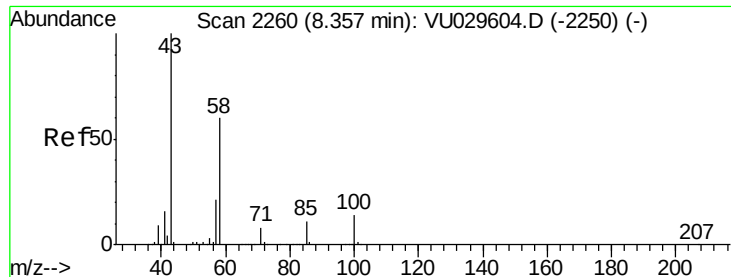
1000

500

0

Time-->

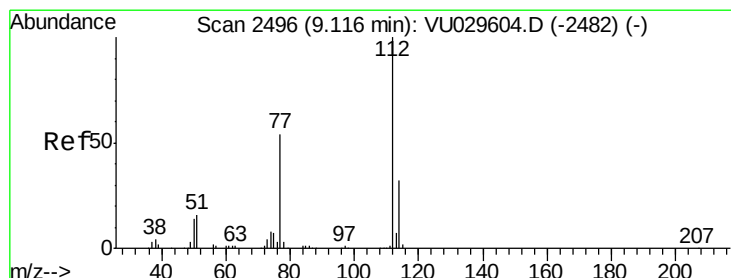
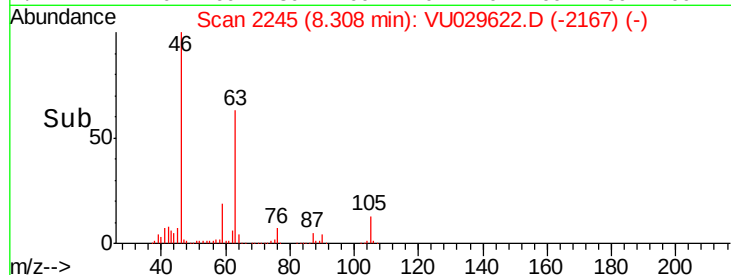
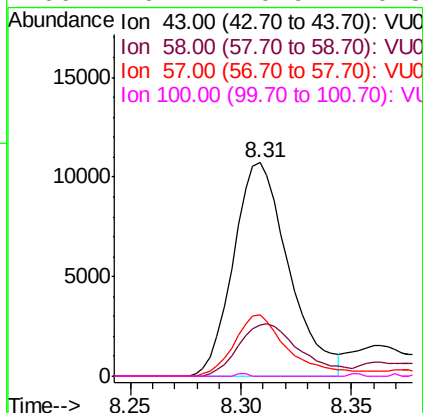
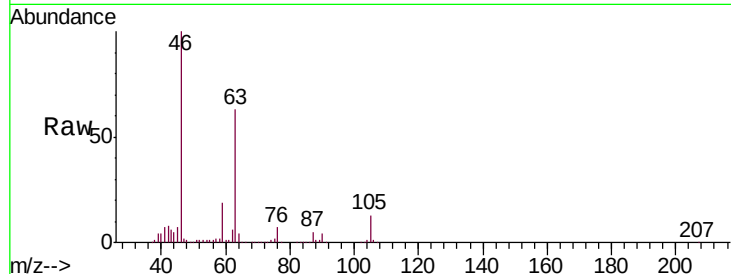




#48  
2-Hexanone  
Concen: 9.815 ug/L  
RT: 8.31 min Scan# 2245  
Delta R.T. -0.05 min  
Lab File: VU029622.D  
Acq: 22 Feb 2019 15:45

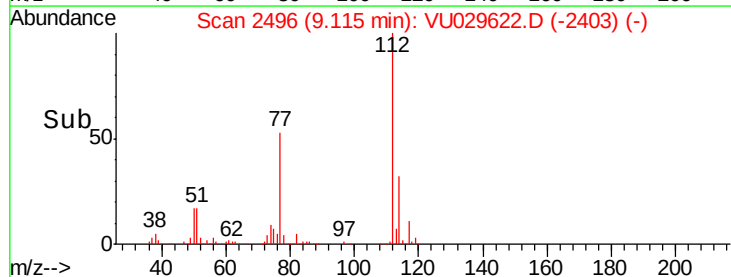
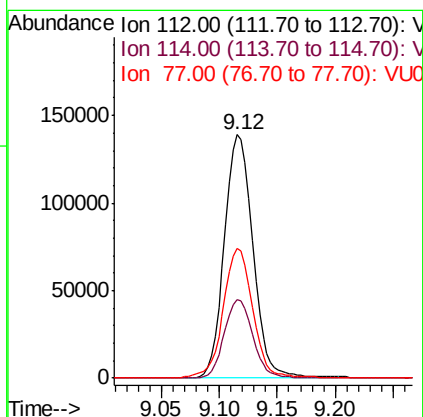
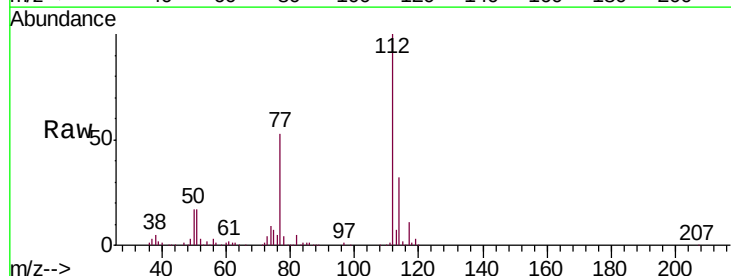
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB617MSD

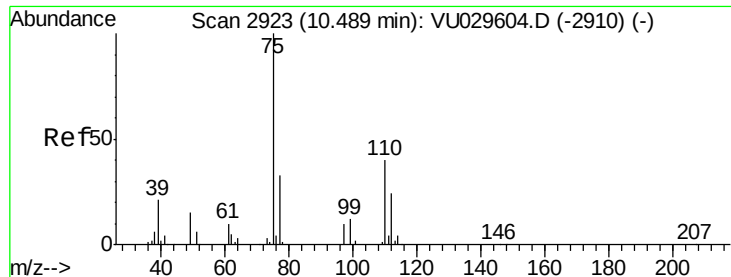
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 18693 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 27.9  | 46.4  | 69.6# |
| 57       | 28.0  | 15.7  | 23.5# |
| 100      | 0.2   | 10.9  | 16.3# |



#51  
Chlorobenzene  
Concen: 49.599 ug/L  
RT: 9.12 min Scan# 2496  
Delta R.T. -0.00 min  
Lab File: VU029622.D  
Acq: 22 Feb 2019 15:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 237764 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 32.2  | 22.7  | 42.1   |
| 77       | 53.0  | 42.1  | 63.1   |





#59

1,2,3-Trichloropropane

Concen: 10.411 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU029622.D

Acq: 22 Feb 2019 15:45

Instrument :

MSVOA\_U

ClientSampleId :

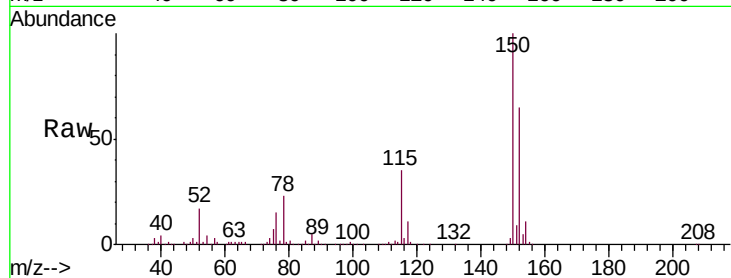
DB617MSD

Tgt Ion: 75 Resp: 23013

Ion Ratio Lower Upper

75 100

77 37.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

