

Data File : VU031147.D  
Acq On : 12 Apr 2019 22:26  
Operator : JC/SP  
Sample : K2339-14  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFC37

Quant Time: Apr 13 01:08:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 13 01:01:33 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 511549   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 504374   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 209984   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 220332   | 48.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.50% |
| 7) Chloroethane-d5             | 1.68    | 69    | 168626   | 48.65    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.30% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 302765   | 36.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.32% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 319859   | 88.38    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 88.38% |
| 24) Chloroform-d               | 4.64    | 84    | 332152   | 47.62    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.24% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 224854   | 47.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.48% |
| 32) Benzene-d6                 | 5.33    | 84    | 675313   | 45.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.72% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 229608   | 45.50    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 91.00% |
| 41) Toluene-d8                 | 7.56    | 98    | 583288   | 44.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.38% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 95869    | 41.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.32% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 196056   | 85.01    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 85.01% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 305784   | 44.93    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.86% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 205468   | 49.75    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.50% |

#### Target Compounds

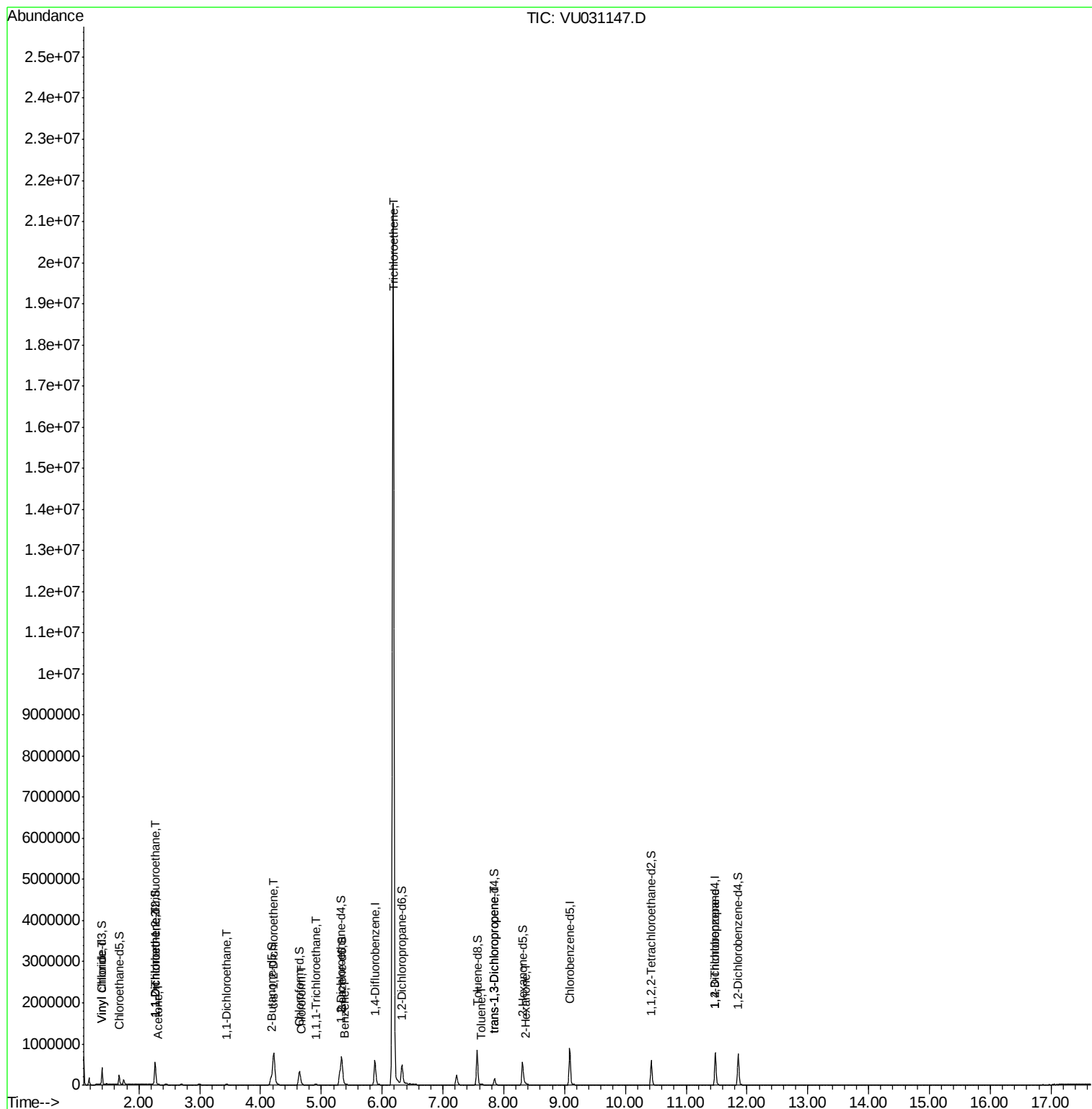
|                                |       |     |         |          |        | Qvalue |
|--------------------------------|-------|-----|---------|----------|--------|--------|
| 5) Vinyl chloride              | 1.40  | 62  | 5723    | 1.017    | ug/L # | 1      |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26  | 101 | 2458    | 0.671    | ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 47635   | 13.471   | ug/L # | 8      |
| 13) Acetone                    | 2.32  | 43  | 25473   | 6.878    | ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.44  | 63  | 25554   | 3.298    | ug/L   | 99     |
| 20) cis-1,2-Dichloroethene     | 4.22  | 96  | 435480  | 105.045  | ug/L   | 88     |
| 25) Chloroform                 | 4.67  | 83  | 10209   | 1.311    | ug/L   | 92     |
| 30) 1,1,1-Trichloroethane      | 4.91  | 97  | 13674   | 2.225    | ug/L   | 94     |
| 33) Benzene                    | 5.39  | 78  | 8443    | 0.512    | ug/L   | 100    |
| 34) Trichloroethene            | 6.18  | 95  | 7590087 | 1874.924 | ug/L   | 96     |
| 42) Toluene                    | 7.64  | 91  | 6915    | 0.410    | ug/L   | 94     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3869    | 0.660    | ug/L   | 89     |
| 48) 2-Hexanone                 | 8.36  | 43  | 14064   | 2.399    | ug/L # | 79     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 25421   | 4.542    | ug/L   | 92     |

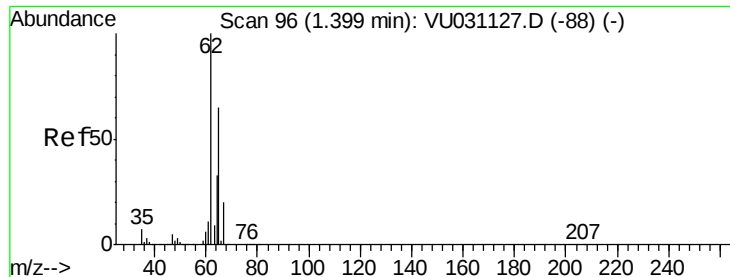
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Apr 13 01:01:33 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.017 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

Instrument :

MSVOA\_U

ClientSampleId :

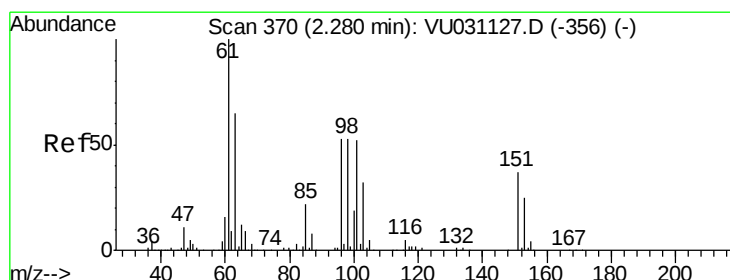
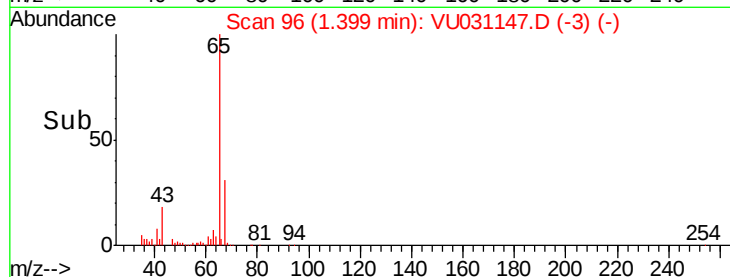
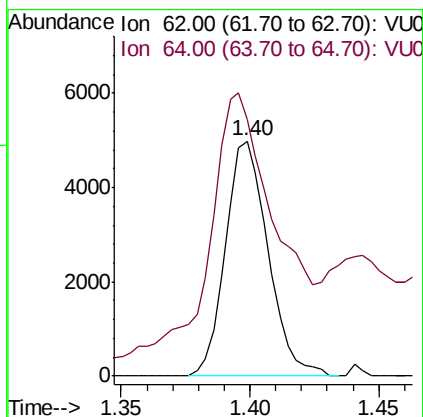
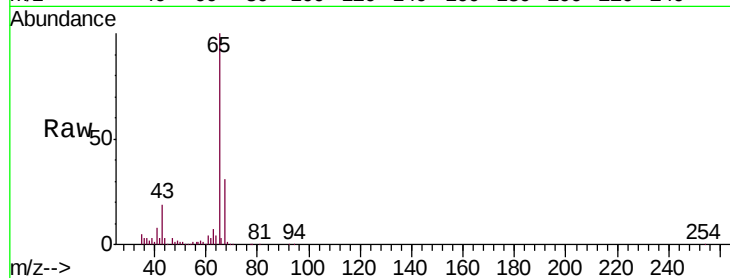
BFC37

Tgt Ion: 62 Resp: 5723

Ion Ratio Lower Upper

62 100

64 109.2 21.5 39.9#



#10

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

Concen: 0.671 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.02 min

Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

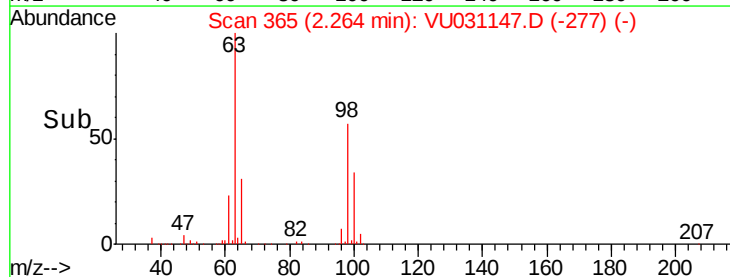
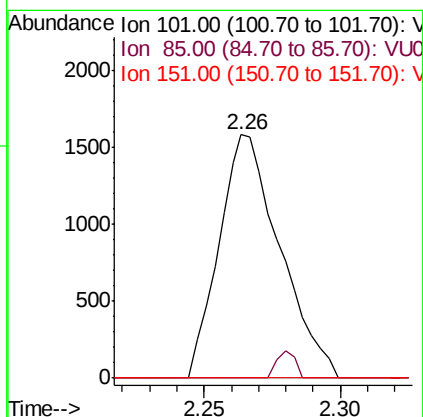
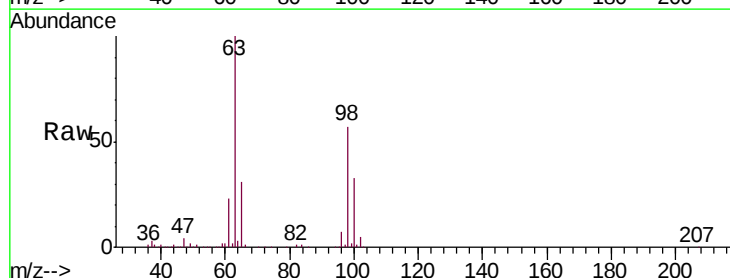
Tgt Ion: 101 Resp: 2458

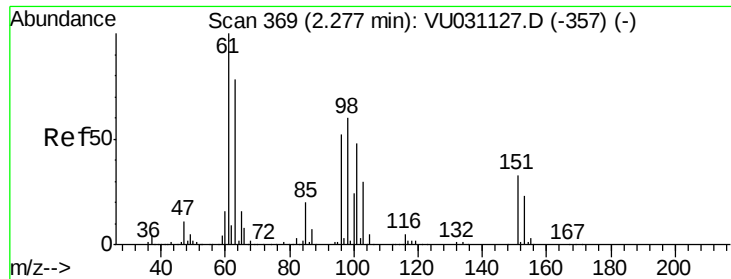
Ion Ratio Lower Upper

101 100

85 3.4 36.8 55.2#

151 0.0 57.4 86.0#





#12

1,1-Dichloroethene

Concen: 13.471 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

Instrument :

MSVOA\_U

ClientSampleId :

BFC37

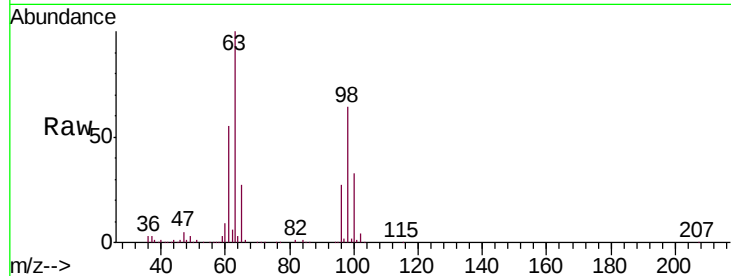
Tgt Ion: 96 Resp: 47635

Ion Ratio Lower Upper

96 100

61 205.6 132.0 245.2

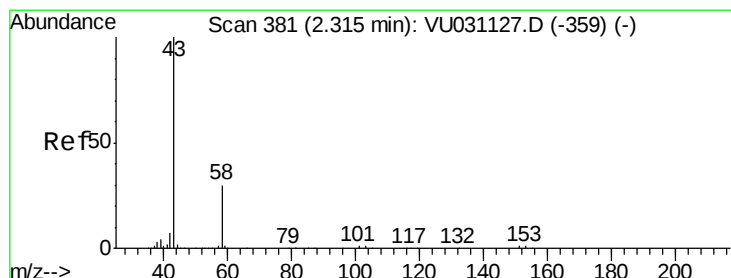
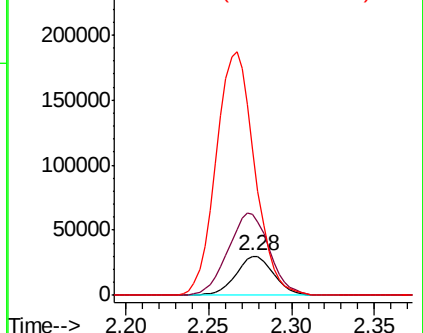
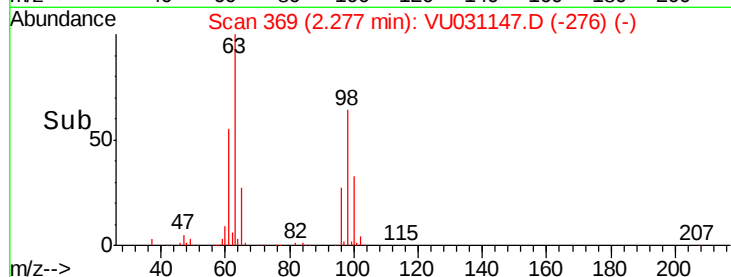
63 374.3 90.9 168.9#



Abundance Ion 96.00 (95.70 to 96.70): VU031147.D (-276) (-)

Ion 61.00 (60.70 to 61.70): VU031147.D (-276) (-)

Ion 63.00 (62.70 to 63.70): VU031147.D (-276) (-)



#13

Acetone

Concen: 6.878 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU031147.D

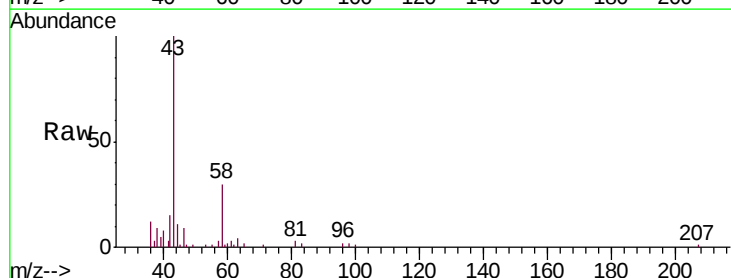
Acq: 12 Apr 2019 22:26

Tgt Ion: 43 Resp: 25473

Ion Ratio Lower Upper

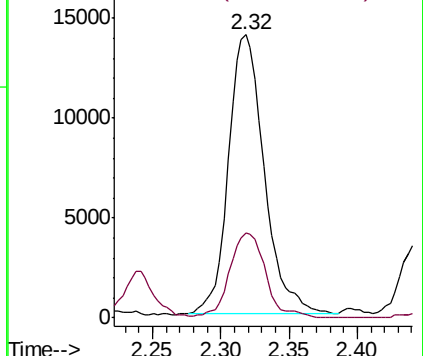
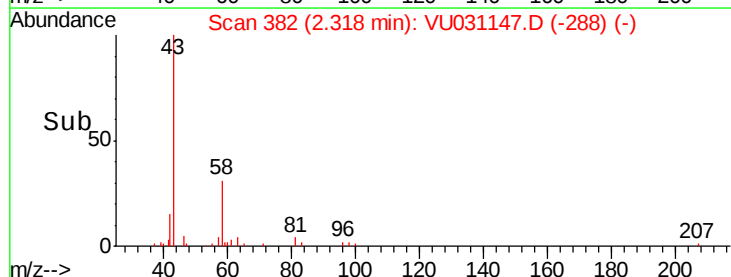
43 100

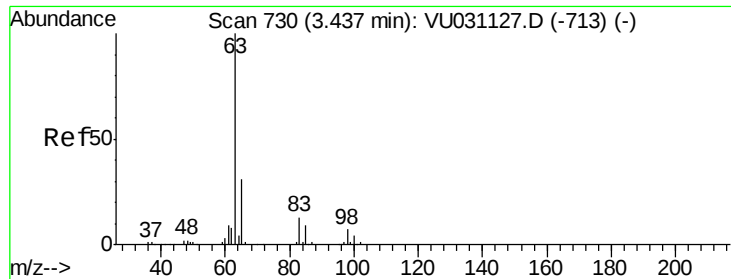
58 30.6 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU031147.D (-288) (-)

Ion 58.00 (57.70 to 58.70): VU031147.D (-288) (-)

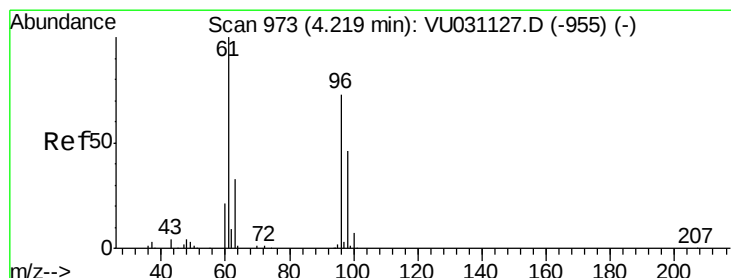
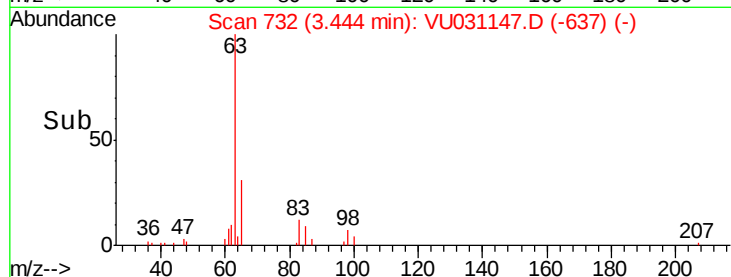
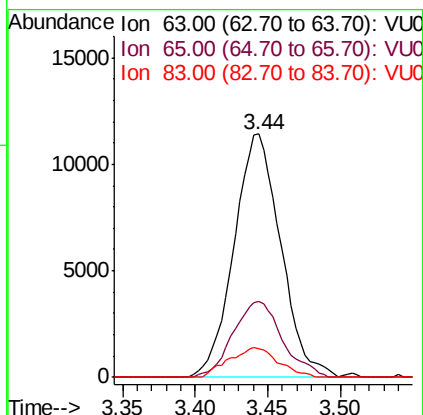
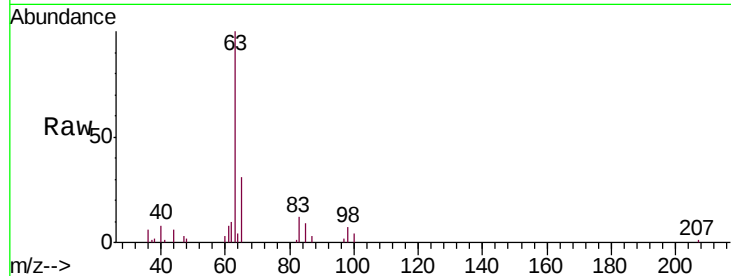




#19  
 1,1-Dichloroethane  
 Concen: 3.298 ug/L  
 RT: 3.44 min Scan# 732  
 Delta R.T. 0.01 min  
 Lab File: VU031147.D  
 Acq: 12 Apr 2019 22:26

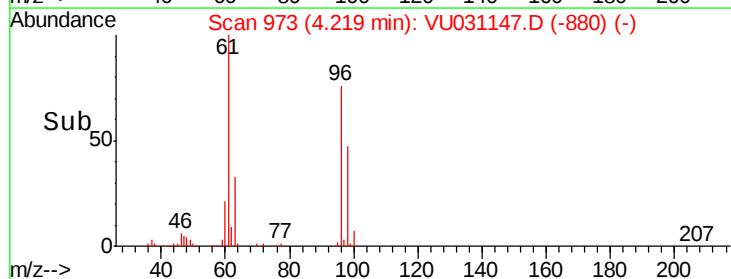
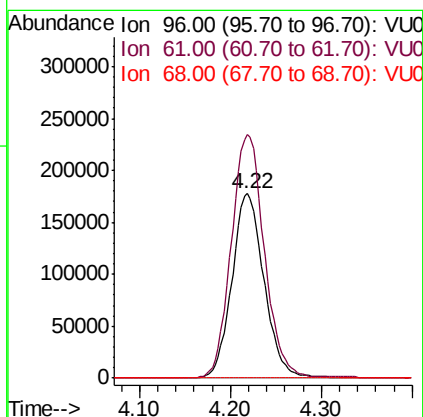
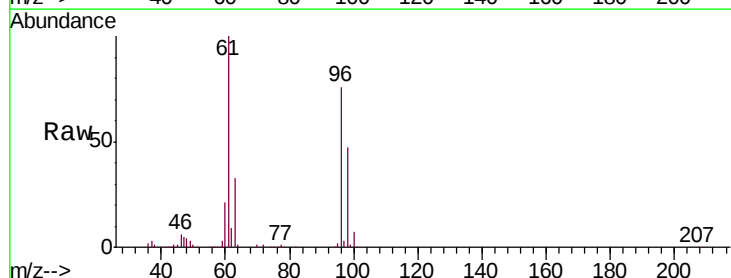
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BFC37

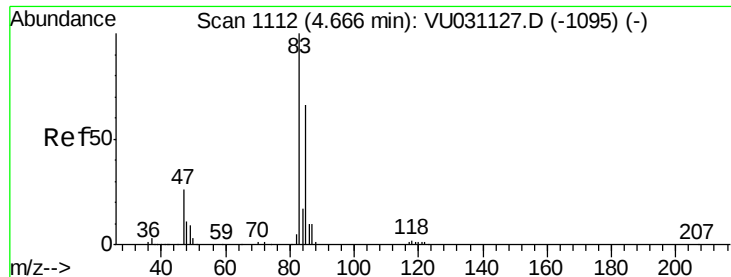
Tgt Ion: 63 Resp: 25554  
 Ion Ratio Lower Upper  
 63 100  
 65 31.3 21.4 39.8  
 83 11.9 8.5 15.7



#20  
 cis-1,2-Dichloroethene  
 Concen: 105.045 ug/L  
 RT: 4.22 min Scan# 973  
 Delta R.T. -0.00 min  
 Lab File: VU031147.D  
 Acq: 12 Apr 2019 22:26

Tgt Ion: 96 Resp: 435480  
 Ion Ratio Lower Upper  
 96 100  
 61 132.1 102.9 191.1  
 68 0.0 0.0 0.0





#25

Chloroform

Concen: 1.311 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

Instrument :

MSVOA\_U

ClientSampleId :

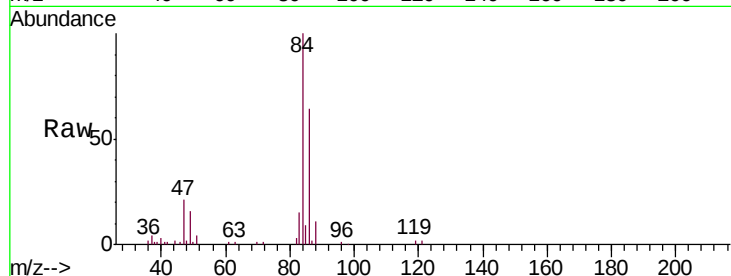
BFC37

Tgt Ion: 83 Resp: 10209

Ion Ratio Lower Upper

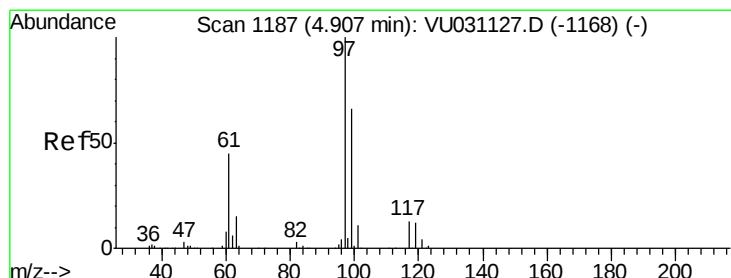
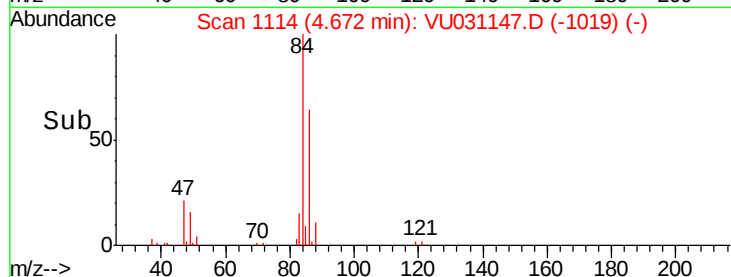
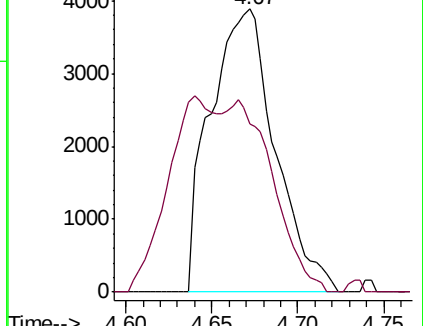
83 100

85 59.3 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU031127.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU031127.D (-1095) (-)



#30

1,1,1-Trichloroethane

Concen: 2.225 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

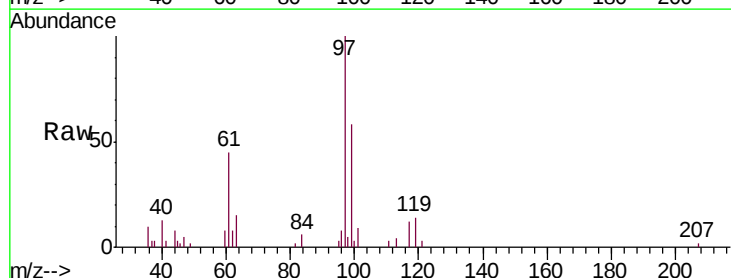
Tgt Ion: 97 Resp: 13674

Ion Ratio Lower Upper

97 100

99 60.5 51.4 77.2

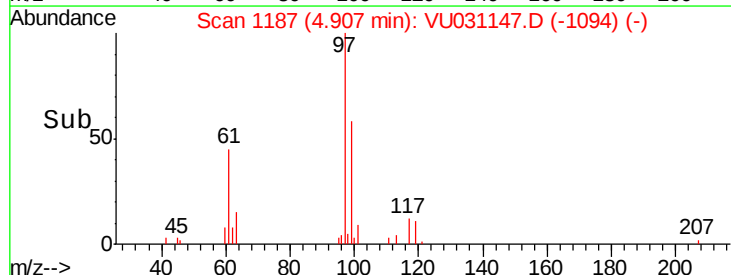
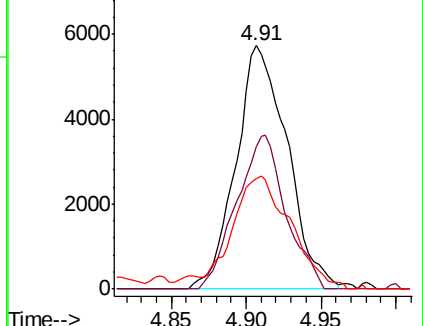
61 52.2 37.1 55.7

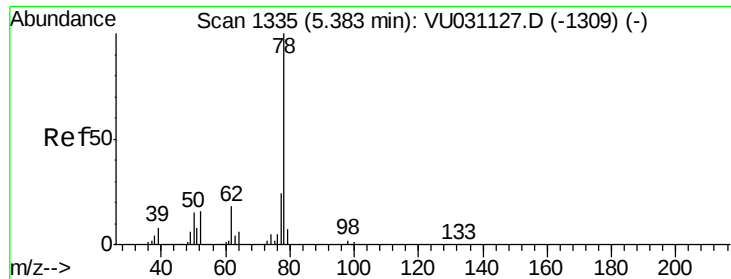


Abundance Ion 97.00 (96.70 to 97.70): VU031127.D (-1168) (-)

Ion 99.00 (98.70 to 99.70): VU031127.D (-1168) (-)

Ion 61.05 (60.75 to 61.75): VU031127.D (-1168) (-)





#33

Benzene

Concen: 0.512 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

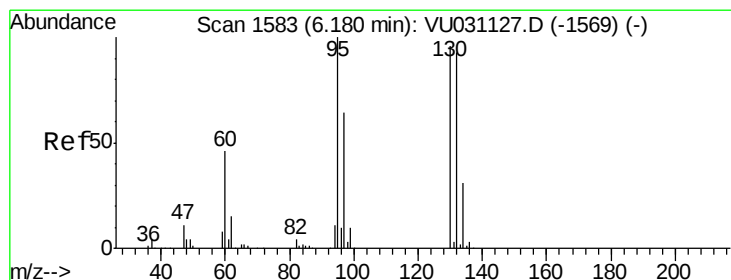
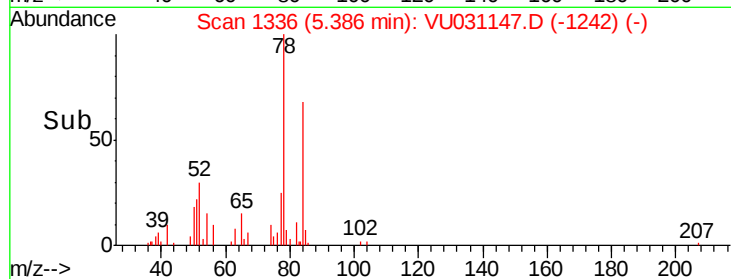
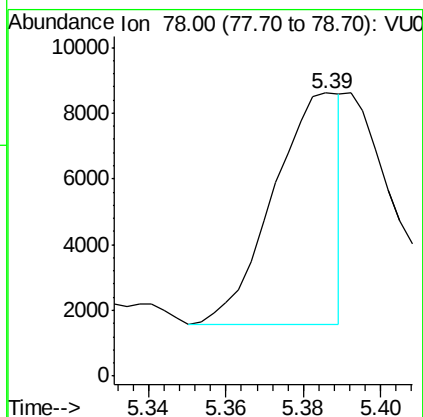
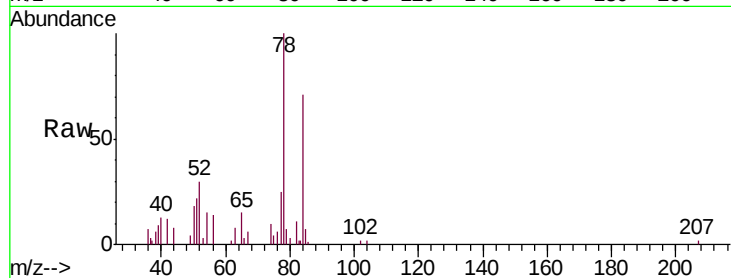
Instrument :

MSVOA\_U

ClientSampleId :

BFC37

Tgt Ion: 78 Resp: 8443



#34

Trichloroethene

Concen: 1874.924 ug/L

RT: 6.18 min Scan# 1584

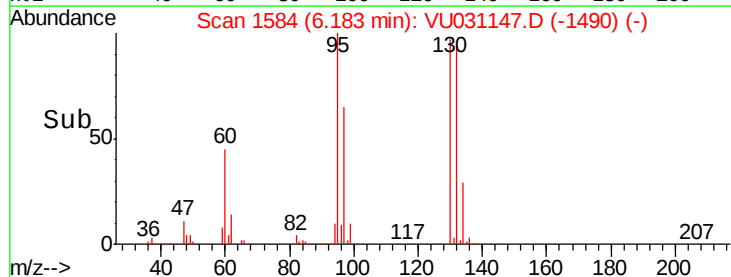
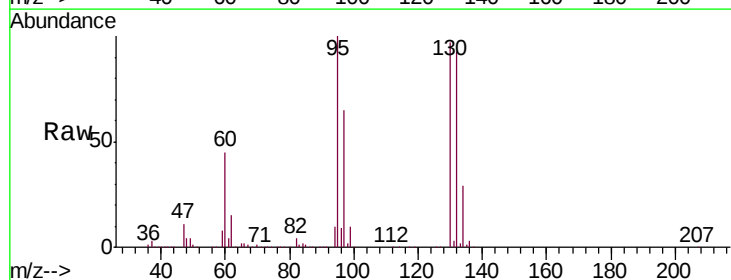
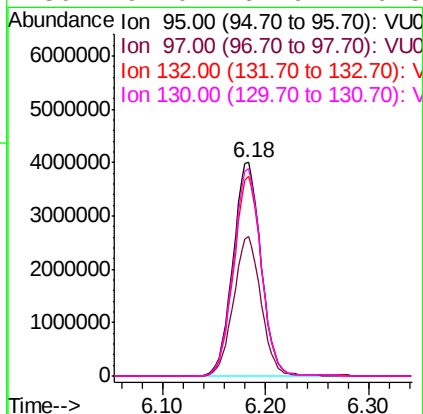
Delta R.T. 0.00 min

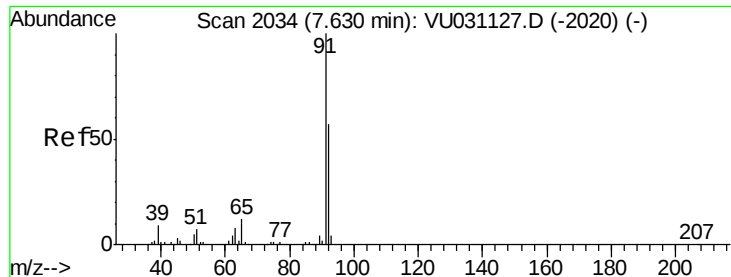
Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

Tgt Ion: 95 Resp: 7590087

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.0  | 44.5  | 82.7  |
| 132 | 93.3  | 61.5  | 114.1 |
| 130 | 97.0  | 64.9  | 120.5 |





#42

Toluene

Concen: 0.410 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. 0.01 min

Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

Instrument :

MSVOA\_U

ClientSampleId :

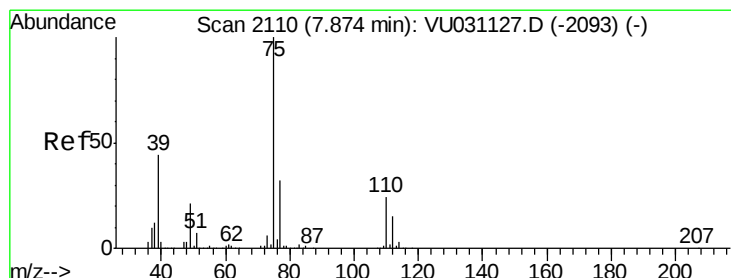
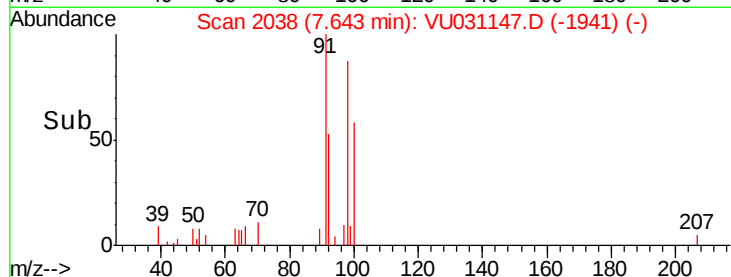
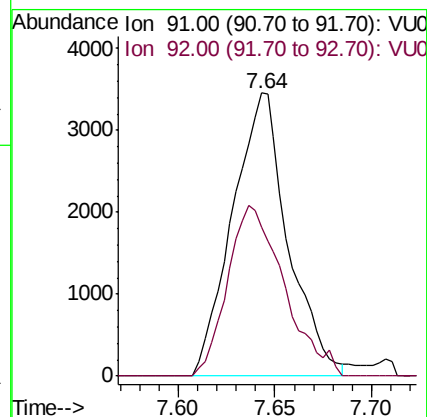
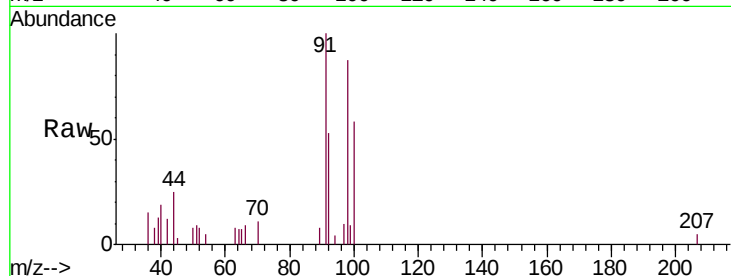
BFC37

Tgt Ion: 91 Resp: 6915

Ion Ratio Lower Upper

91 100

92 52.8 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 0.660 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.02 min

Lab File: VU031147.D

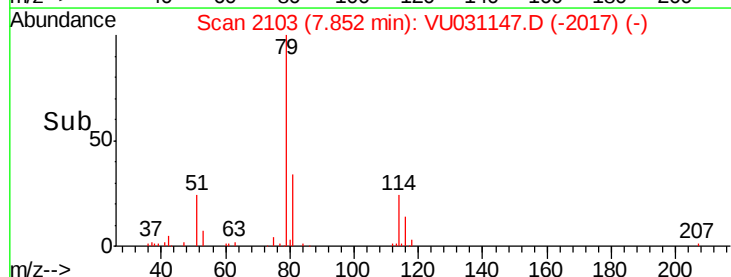
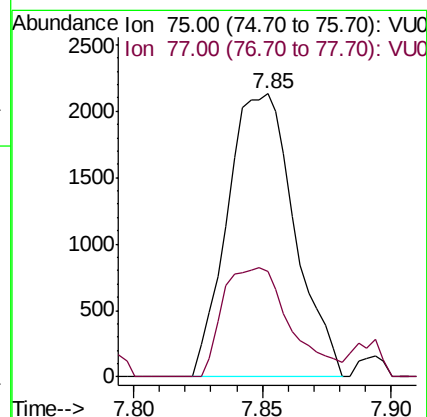
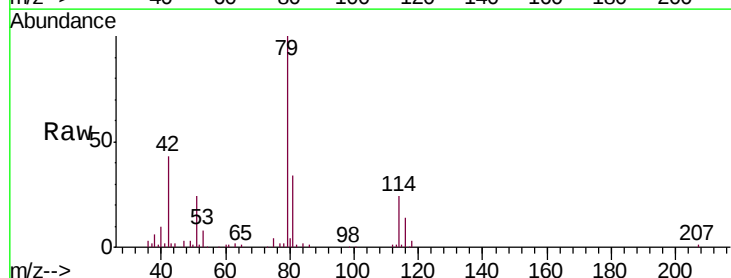
Acq: 12 Apr 2019 22:26

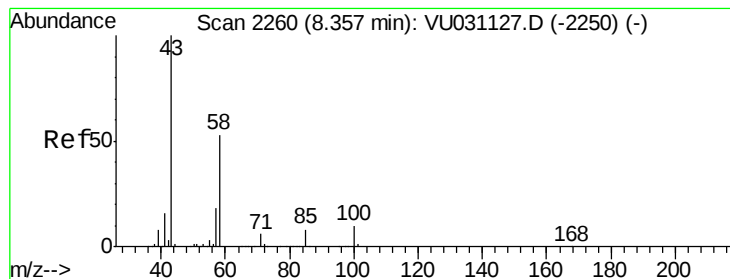
Tgt Ion: 75 Resp: 3869

Ion Ratio Lower Upper

75 100

77 37.1 21.6 40.0





#48

2-Hexanone

Concen: 2.399 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.01 min

Lab File: VU031147.D

Acq: 12 Apr 2019 22:26

Instrument :

MSVOA\_U

ClientSampleId :

BFC37

Tgt Ion: 43 Resp: 14064

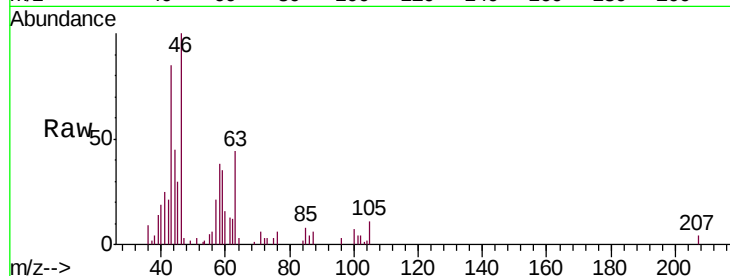
Ion Ratio Lower Upper

43 100

58 37.4 41.9 62.9#

57 9.8 14.3 21.5#

100 0.9 7.1 10.7#

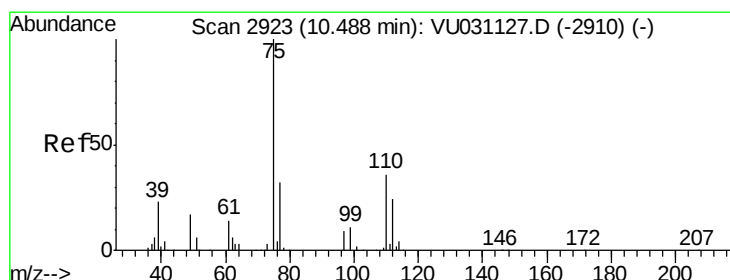
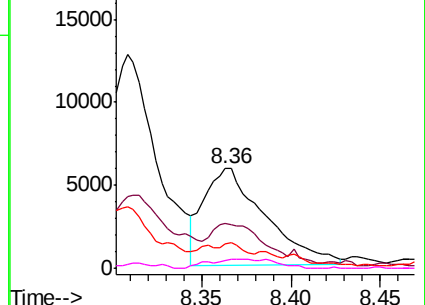
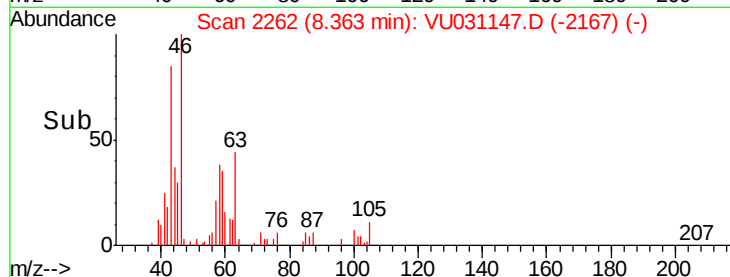


Abundance Ion 43.00 (42.70 to 43.70): VU031127.D (-2250) (-)

Ion 58.00 (57.70 to 58.70): VU031127.D (-2250) (-)

Ion 57.00 (56.70 to 57.70): VU031127.D (-2250) (-)

Ion 100.00 (99.70 to 100.70): VU031127.D (-2250) (-)



#59

1,2,3-Trichloropropane

Concen: 4.542 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU031147.D

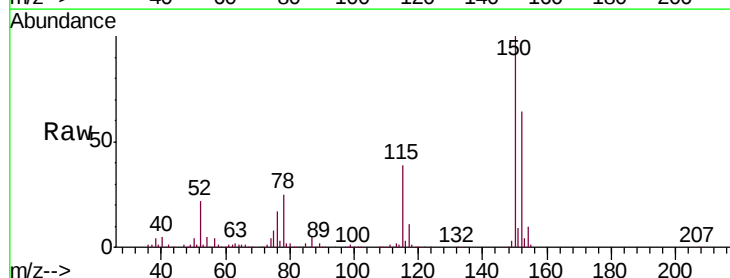
Acq: 12 Apr 2019 22:26

Tgt Ion: 75 Resp: 25421

Ion Ratio Lower Upper

75 100

77 37.1 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU031127.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031127.D (-2910) (-)

