

Data File : VU032209.D  
Acq On : 21 May 2019 19:18  
Operator : JC/SP  
Sample : K2975-01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFHG2

Quant Time: May 22 02:13:46 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM052119WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed May 22 02:08:11 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 818063   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 807014   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 329635   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 267849   | 50.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 100.40% |
| 7) Chloroethane-d5             | 1.67    | 69    | 227808   | 48.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.98%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 376660   | 37.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.14%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 329909   | 100.20   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.20% |
| 24) Chloroform-d               | 4.64    | 84    | 503831   | 47.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.84%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 320665   | 51.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.32% |
| 32) Benzene-d6                 | 5.33    | 84    | 1090960  | 52.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.00% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 314270   | 51.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.78% |
| 41) Toluene-d8                 | 7.56    | 98    | 980397   | 49.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.62%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 139607   | 46.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.42%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 251497   | 91.53    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.53%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 463570   | 47.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.62%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 375842   | 54.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.04% |

#### Target Compounds

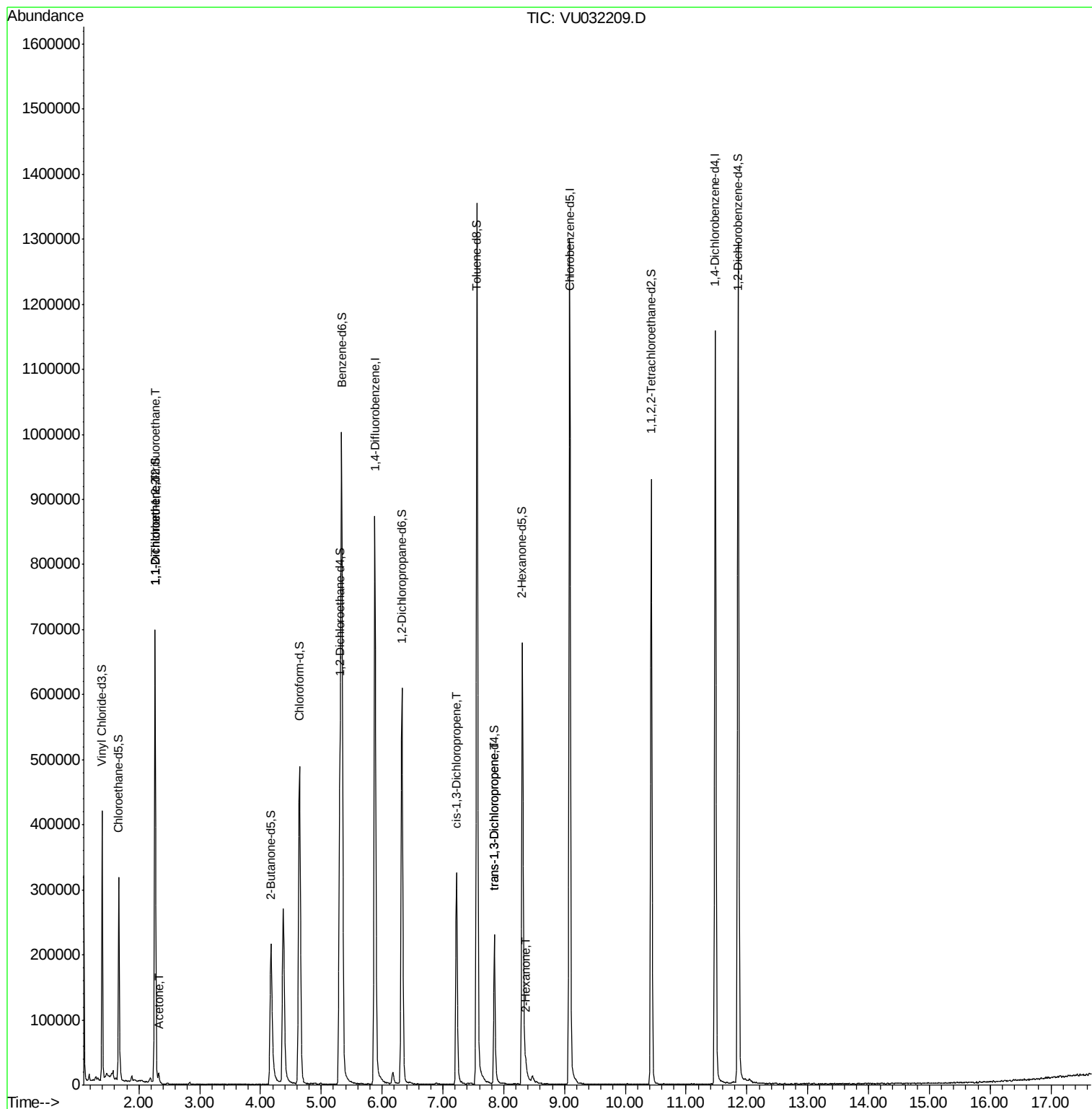
|                                |      |     |       |       | Qvalue |    |
|--------------------------------|------|-----|-------|-------|--------|----|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 4228  | 0.767 | ug/L # | 18 |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 3439  | 0.627 | ug/L # | 1  |
| 13) Acetone                    | 2.32 | 43  | 10371 | 3.094 | ug/L   | 96 |
| 39) cis-1,3-Dichloropropene    | 7.22 | 75  | 8490  | 0.983 | ug/L # | 65 |
| 44) trans-1,3-Dichloropropene  | 7.84 | 75  | 5786  | 0.754 | ug/L   | 97 |
| 48) 2-Hexanone                 | 8.37 | 43  | 10113 | 1.877 | ug/L # | 46 |

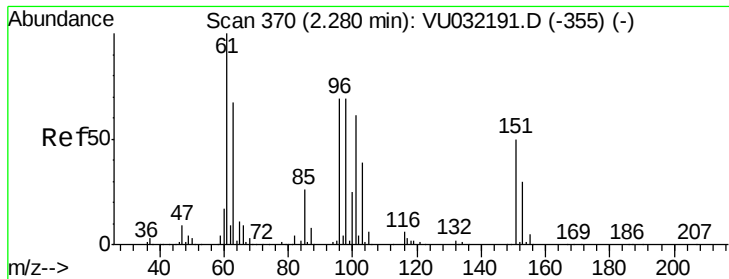
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU032209.D  
Acq On : 21 May 2019 19:18  
Operator : JC/SP  
Sample : K2975-01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFHG2

Quant Time: May 22 02:13:46 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM052119WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed May 22 02:08:11 2019  
Response via : Initial Calibration





#10

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

Concen: 0.767 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU032209.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA\_U

ClientSampled :

BFHG2

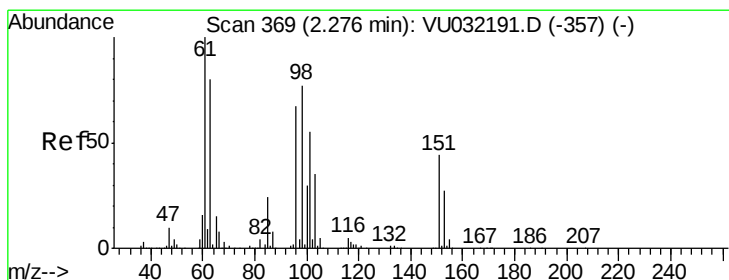
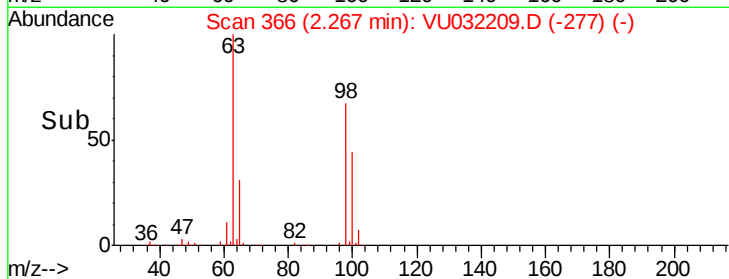
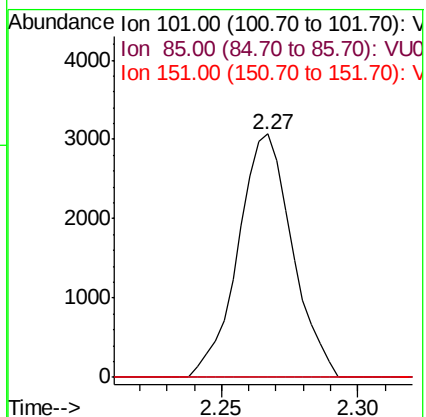
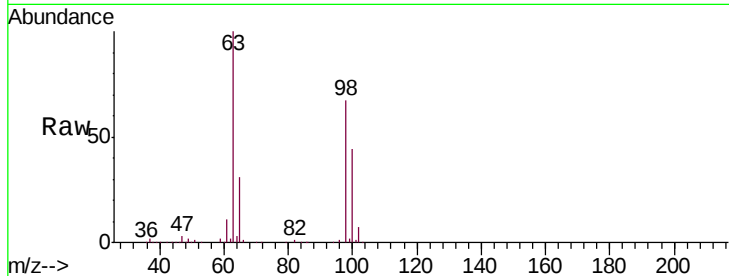
Tgt Ion:101 Resp: 4228

Ion Ratio Lower Upper

101 100

85 0.0 32.5 48.7#

151 0.0 63.1 94.7#



#12

1,1-Dichloroethene

Concen: 0.627 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032209.D

Acq: 21 May 2019 19:18

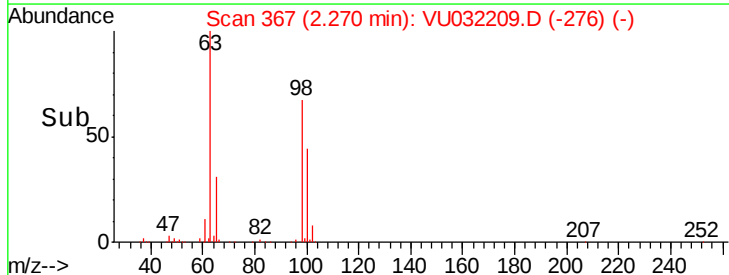
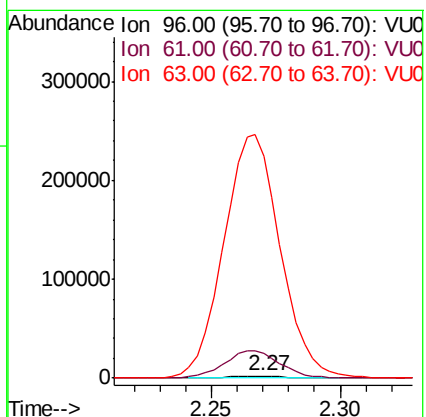
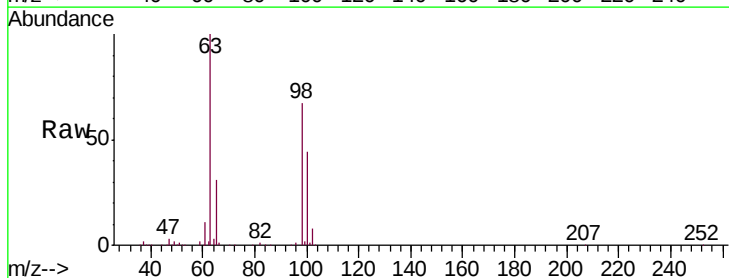
Tgt Ion: 96 Resp: 3439

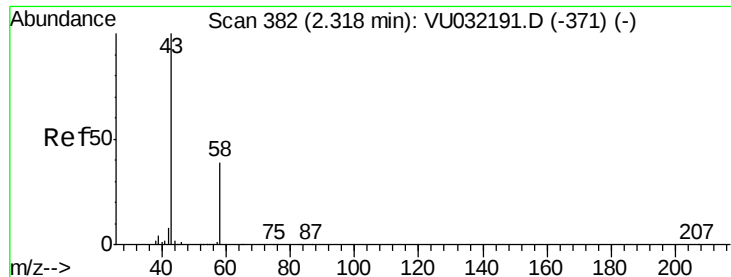
Ion Ratio Lower Upper

96 100

61 1089.1 103.7 192.7#

63 10004.5 83.3 154.7#





#13

Acetone

Concen: 3.094 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU032209.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA\_U

ClientSampleId :

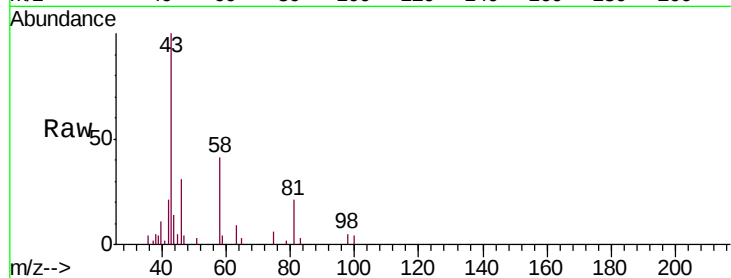
BFHG2

Tgt Ion: 43 Resp: 10371

Ion Ratio Lower Upper

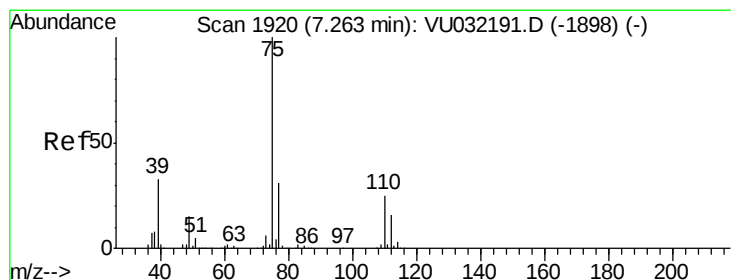
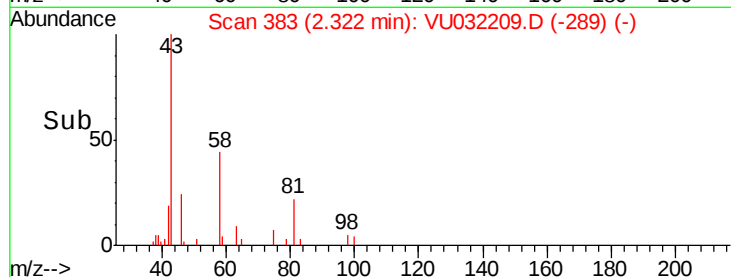
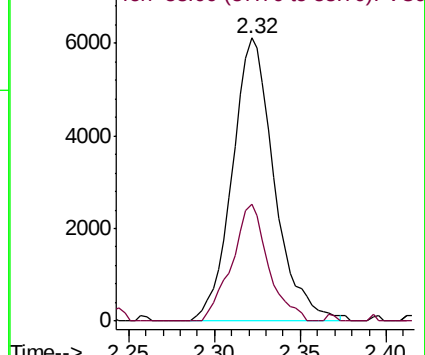
43 100

58 35.7 0.0 76.8



Abundance Ion 43.00 (42.70 to 43.70): VU032191.D (-371) (-)

Ion 58.00 (57.70 to 58.70): VU032191.D (-371) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.983 ug/L

RT: 7.22 min Scan# 1907

Delta R.T. -0.04 min

Lab File: VU032209.D

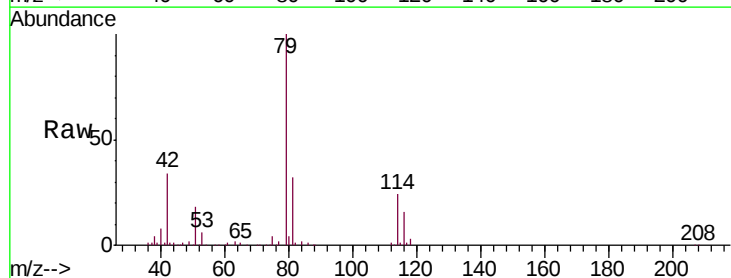
Acq: 21 May 2019 19:18

Tgt Ion: 75 Resp: 8490

Ion Ratio Lower Upper

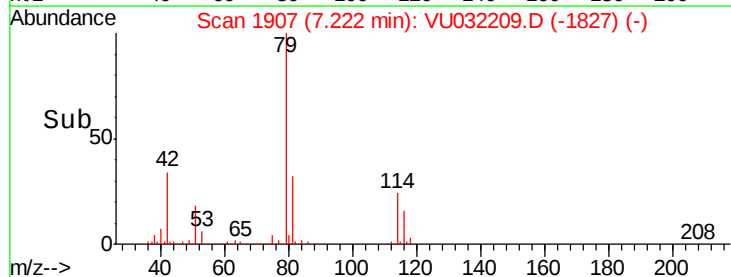
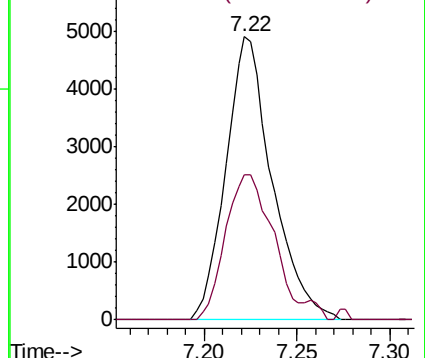
75 100

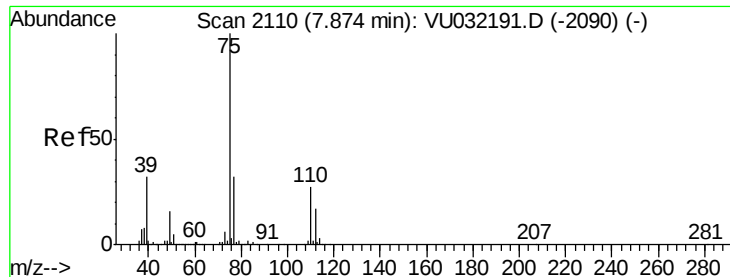
77 51.2 22.2 41.2#



Abundance Ion 75.00 (74.70 to 75.70): VU032191.D (-1898) (-)

Ion 77.00 (76.70 to 77.70): VU032191.D (-1898) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.754 ug/L

RT: 7.84 min Scan# 2100

Delta R.T. -0.03 min

Lab File: VU032209.D

Acq: 21 May 2019 19:18

Instrument :

MSVOA\_U

ClientSampleId :

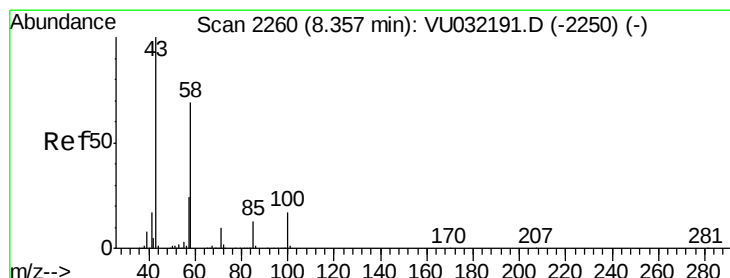
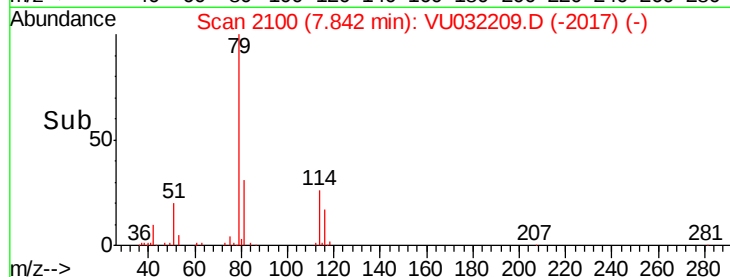
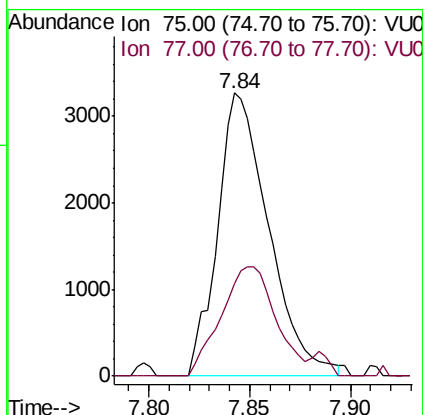
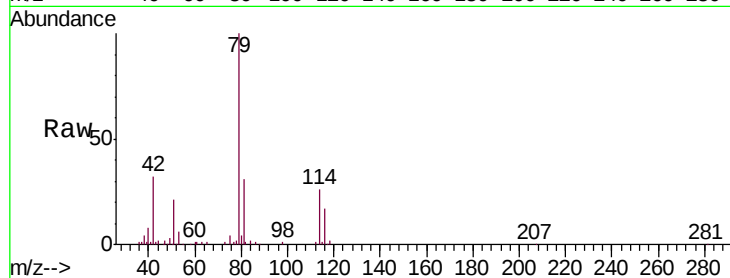
BFHG2

Tgt Ion: 75 Resp: 5786

Ion Ratio Lower Upper

75 100

77 32.7 21.8 40.4



#48

2-Hexanone

Concen: 1.877 ug/L

RT: 8.37 min Scan# 2263

Delta R.T. 0.01 min

Lab File: VU032209.D

Acq: 21 May 2019 19:18

Tgt Ion: 43 Resp: 10113

Ion Ratio Lower Upper

43 100

58 10.5 54.1 81.1#

57 8.8 19.4 29.0#

100 7.2 13.6 20.4#

