

Data File : VU030345.D  
Acq On : 23 Mar 2019 17:18  
Operator : JC/SP  
Sample : K2065-21  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF5R2

Quant Time: Mar 24 02:11:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sun Mar 24 02:05:17 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 430961   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 410497   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 181418   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 158255   | 45.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.26%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 125672   | 45.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 91.42%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 223932   | 34.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.08%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 290792   | 89.19    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.19%  |
| 24) Chloroform-d               | 4.64    | 84    | 269879   | 45.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.32%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 180629   | 46.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.38%  |
| 32) Benzene-d6                 | 5.34    | 84    | 565028   | 48.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 201862   | 50.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.24% |
| 41) Toluene-d8                 | 7.56    | 98    | 506297   | 47.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.78%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 90089    | 47.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.14%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 194686   | 89.20    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.20%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 262961   | 45.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.26%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 177935   | 48.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.90%  |

#### Target Compounds

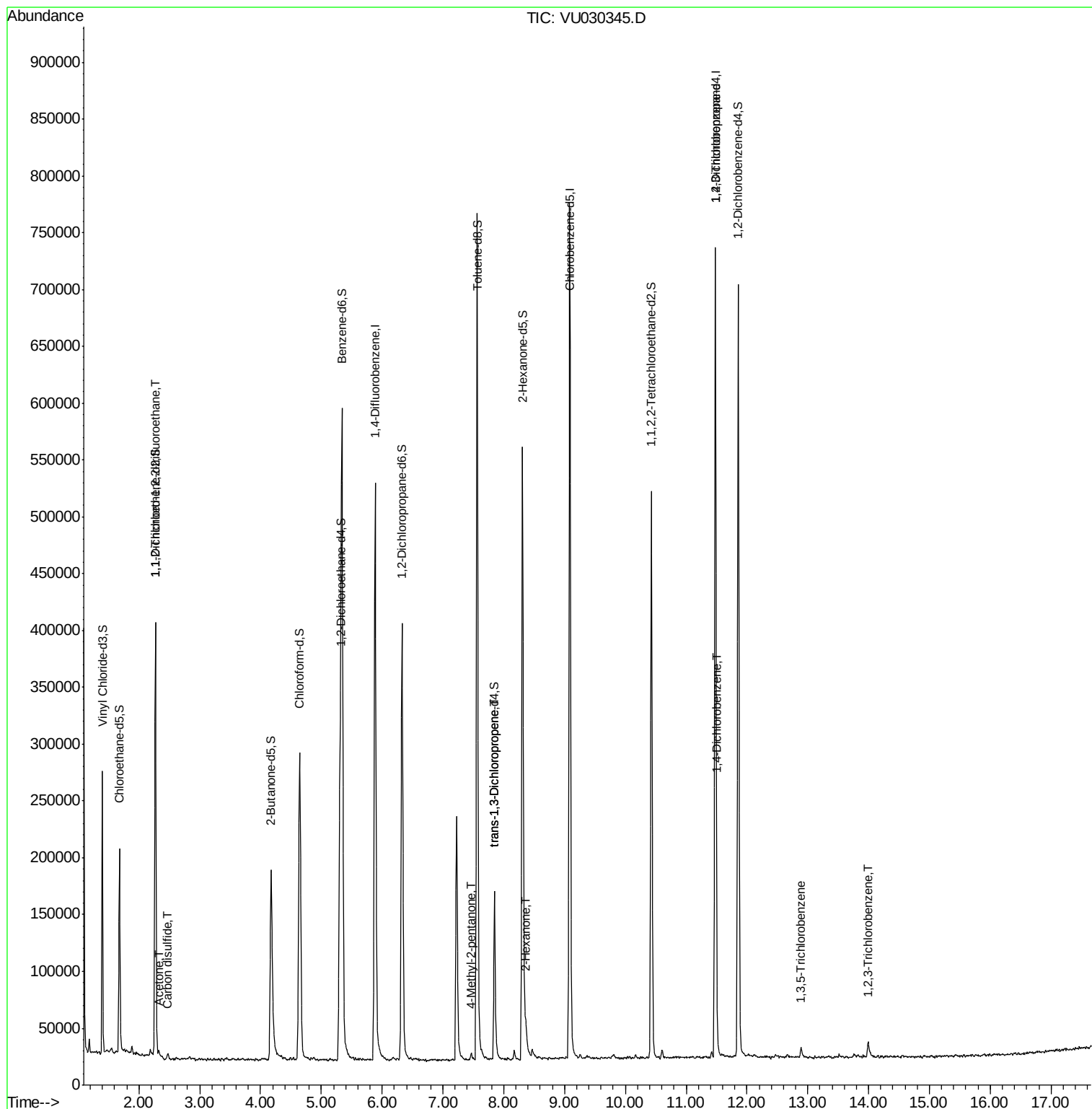
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 2025  | 0.644 ug/L # | 21     |
| 13) Acetone                    | 2.32  | 43  | 2705  | 0.820 ug/L   | 96     |
| 14) Carbon disulfide           | 2.48  | 76  | 5547  | 0.544 ug/L # | 93     |
| 40) 4-Methyl-2-pentanone       | 7.47  | 43  | 5048  | 0.758 ug/L   | 93     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3719  | 0.742 ug/L   | 94     |
| 48) 2-Hexanone                 | 8.36  | 43  | 13992 | 2.563 ug/L # | 88     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 26294 | 5.447 ug/L   | 96     |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146 | 3494  | 0.572 ug/L   | 93     |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180 | 3365  | 0.758 ug/L   | 97     |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180 | 6000  | 1.472 ug/L # | 78     |

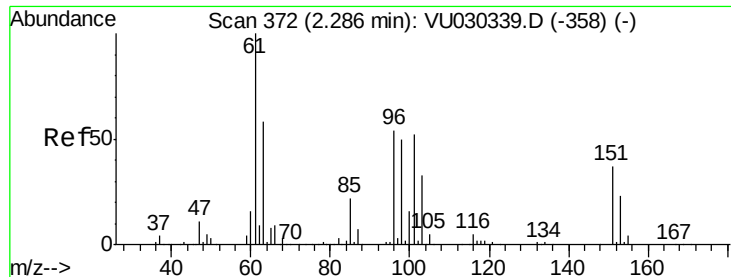
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.644 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.02 min

Lab File: VU030345.D

Acq: 23 Mar 2019 17:18

Instrument :

MSVOA\_U

ClientSampleId :

BF5R2

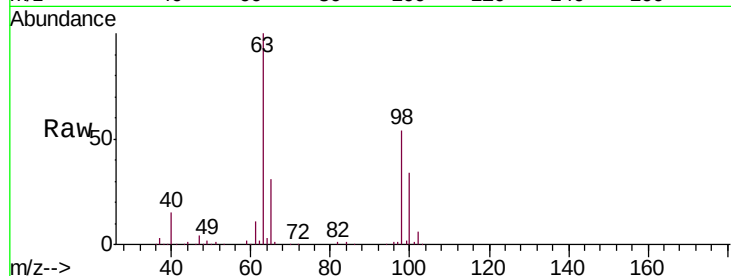
Tgt Ion: 101 Resp: 2025

Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

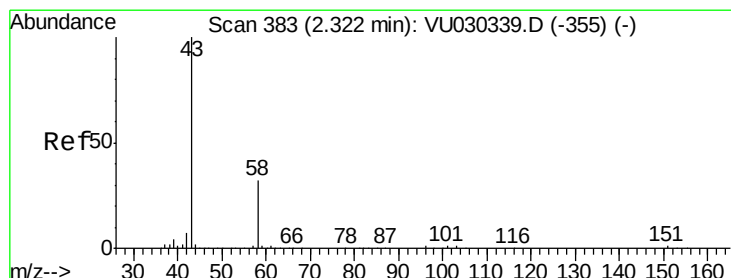
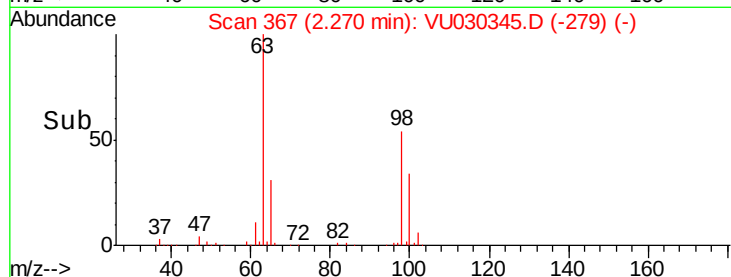
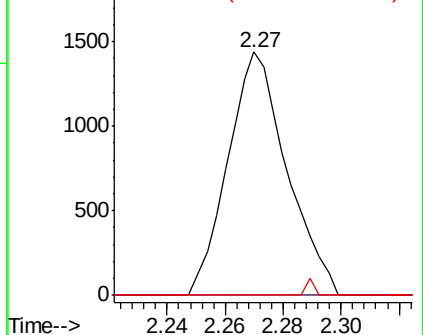
151 0.0 56.6 85.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 0.820 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VU030345.D

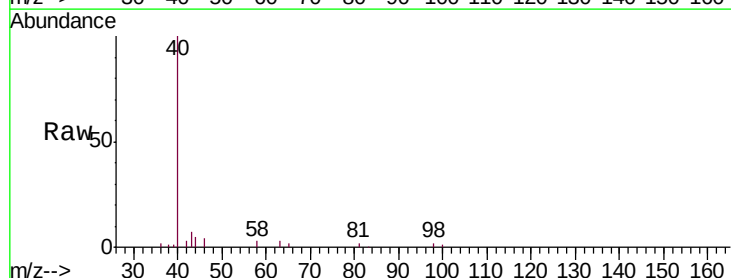
Acq: 23 Mar 2019 17:18

Tgt Ion: 43 Resp: 2705

Ion Ratio Lower Upper

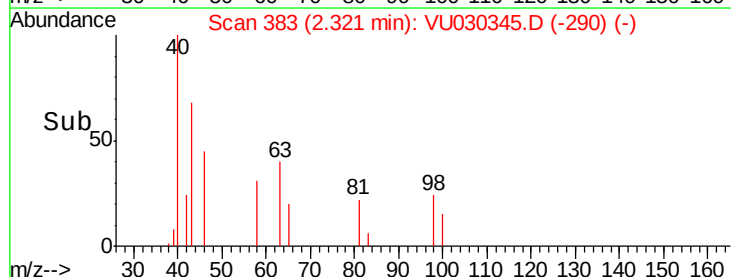
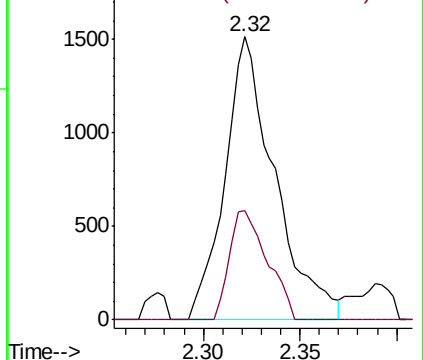
43 100

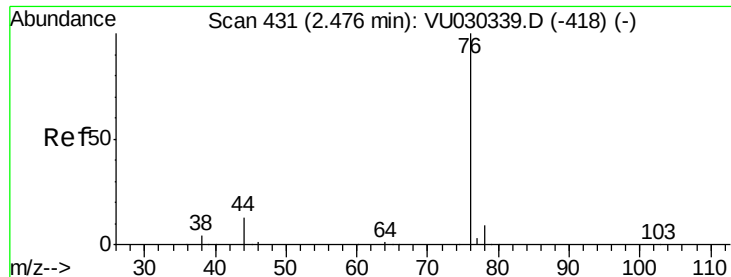
58 29.2 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#14

Carbon disulfide

Concen: 0.544 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU030345.D

Acq: 23 Mar 2019 17:18

Instrument :

MSVOA\_U

ClientSampled :

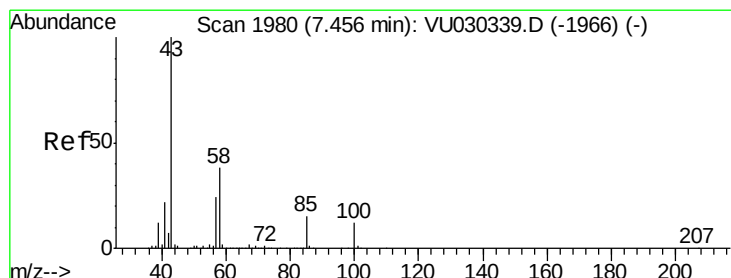
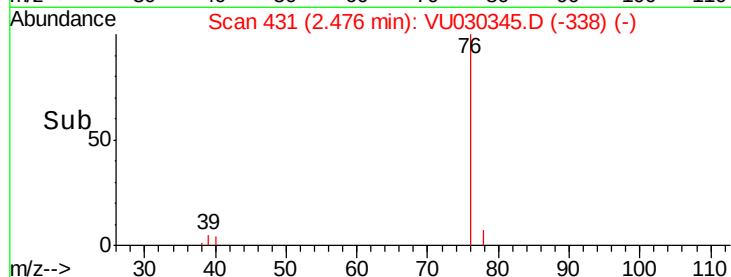
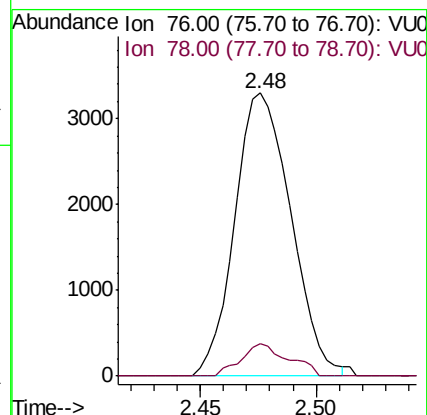
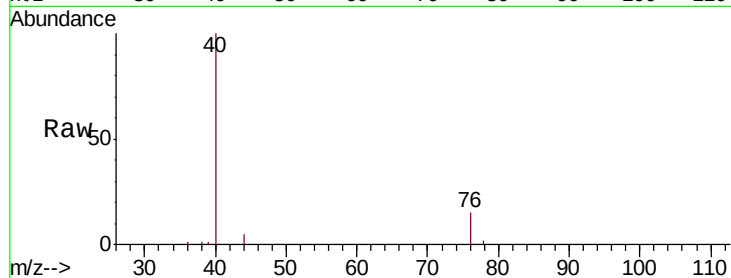
BF5R2

Tgt Ion: 76 Resp: 5547

Ion Ratio Lower Upper

76 100

78 11.5 7.3 10.9#



#40

4-Methyl-2-pentanone

Concen: 0.758 ug/L

RT: 7.47 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VU030345.D

Acq: 23 Mar 2019 17:18

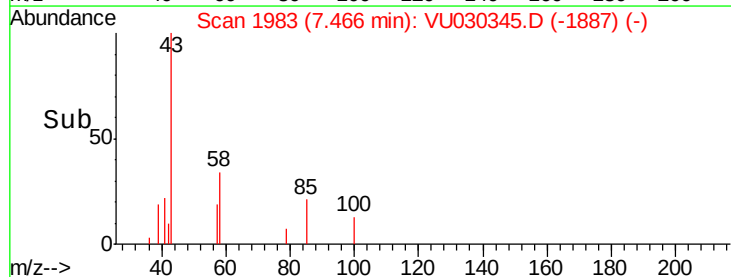
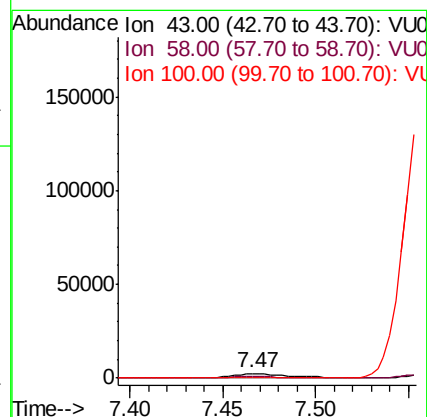
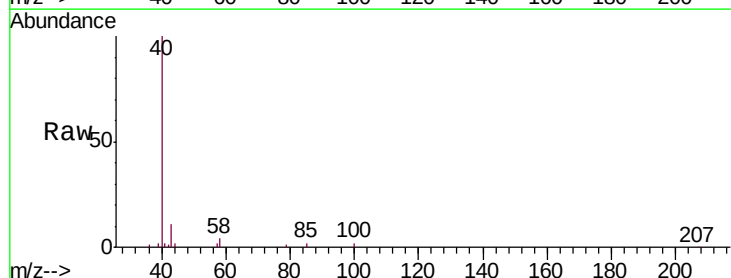
Tgt Ion: 43 Resp: 5048

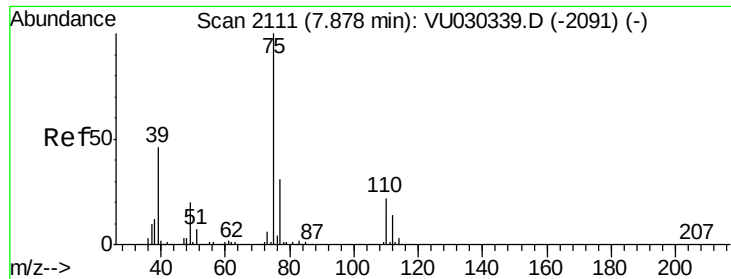
Ion Ratio Lower Upper

43 100

58 33.2 30.6 45.8

100 10.1 9.5 14.3





#44

trans-1,3-Dichloropropene

Concen: 0.742 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU030345.D

Acq: 23 Mar 2019 17:18

Instrument :

MSVOA\_U

ClientSampleId :

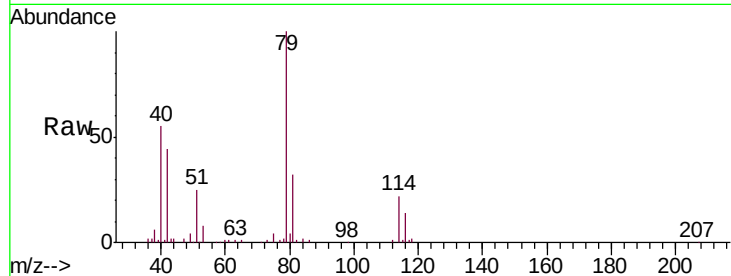
BF5R2

Tgt Ion: 75 Resp: 3719

Ion Ratio Lower Upper

75 100

77 34.9 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU030339.D (-2091) (-)

Ion 77.00 (76.70 to 77.70): VU030339.D (-2091) (-)

7.85

2000

1500

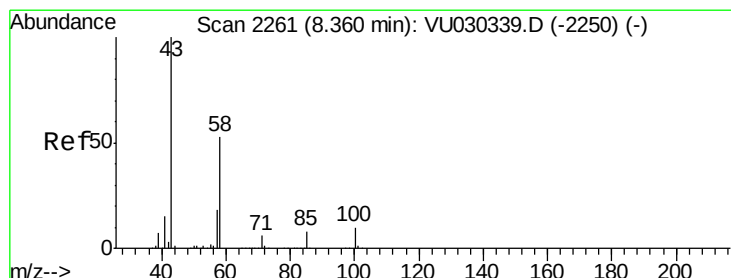
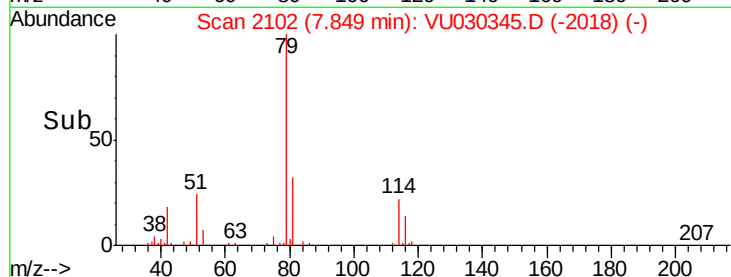
1000

500

0

7.80 7.85 7.90

Time-->



#48

2-Hexanone

Concen: 2.563 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VU030345.D

Acq: 23 Mar 2019 17:18

Tgt Ion: 43 Resp: 13992

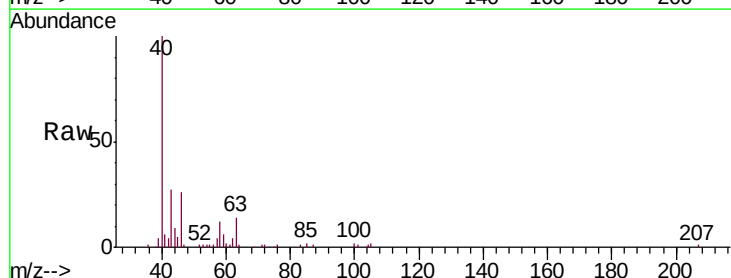
Ion Ratio Lower Upper

43 100

58 50.8 42.5 63.7

57 3.1 15.0 22.6#

100 5.2 7.4 11.2#



Abundance Ion 43.00 (42.70 to 43.70): VU030339.D (-2250) (-)

Ion 58.00 (57.70 to 58.70): VU030339.D (-2250) (-)

Ion 57.00 (56.70 to 57.70): VU030339.D (-2250) (-)

Ion 100.00 (99.70 to 100.70): VU030339.D (-2250) (-)

20000

15000

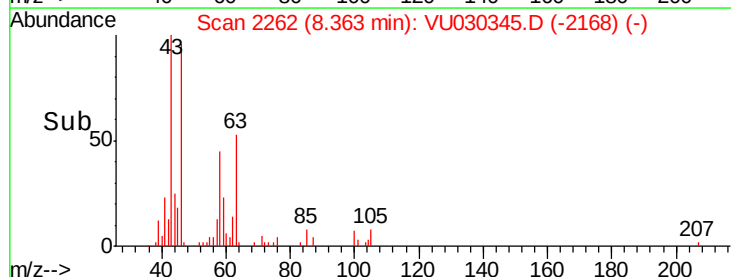
10000

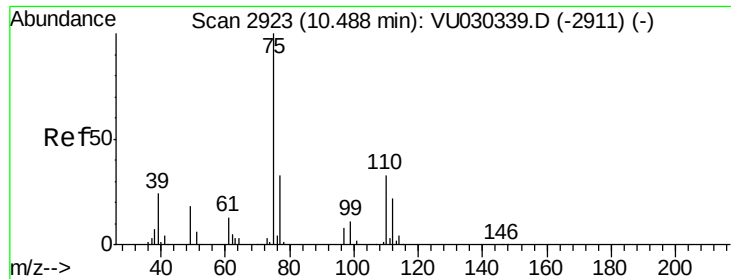
5000

0

8.30 8.35 8.40 8.45

Time-->

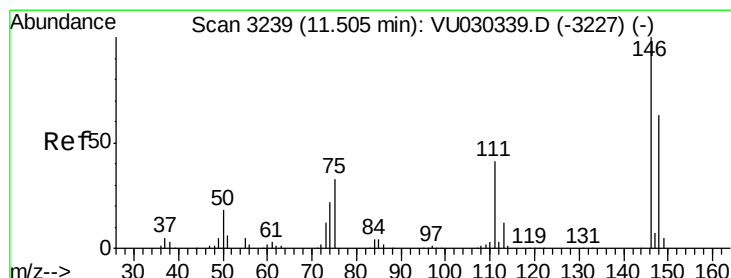
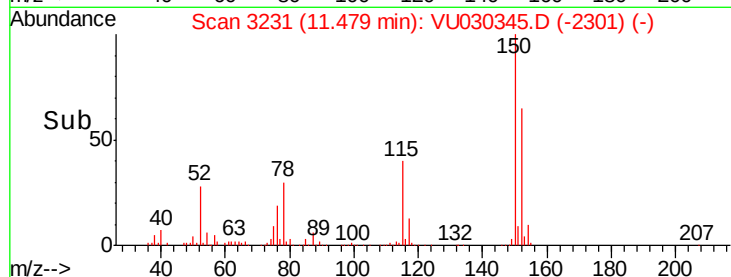
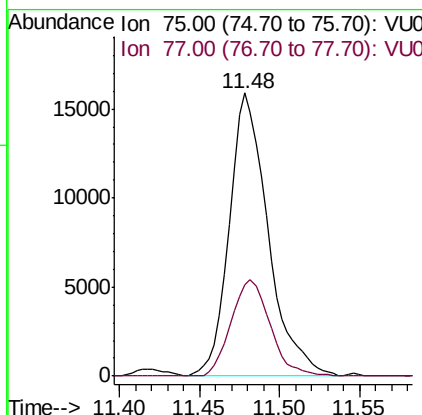
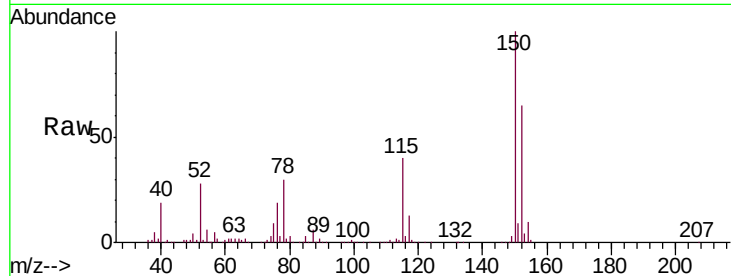




#59  
 1,2,3-Trichloropropane  
 Concen: 5.447 ug/L  
 RT: 11.48 min Scan# 3231  
 Delta R.T. 0.99 min  
 Lab File: VU030345.D  
 Acq: 23 Mar 2019 17:18

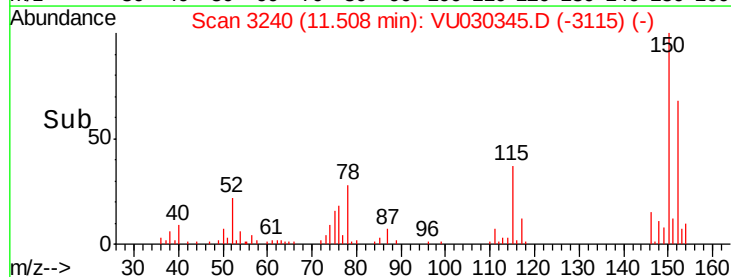
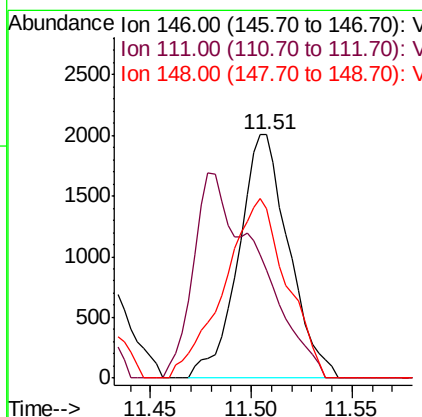
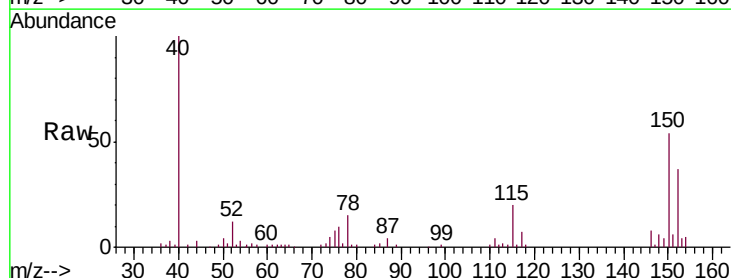
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF5R2

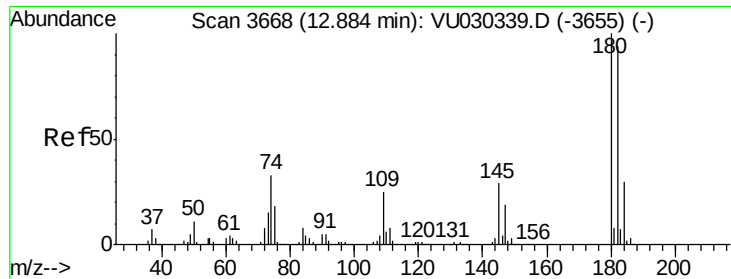
Tgt Ion: 75 Resp: 26294  
 Ion Ratio Lower Upper  
 75 100  
 77 34.2 25.4 38.2



#63  
 1,4-Dichlorobenzene  
 Concen: 0.572 ug/L  
 RT: 11.51 min Scan# 3240  
 Delta R.T. 0.00 min  
 Lab File: VU030345.D  
 Acq: 23 Mar 2019 17:18

Tgt Ion: 146 Resp: 3494  
 Ion Ratio Lower Upper  
 146 100  
 111 44.5 28.7 53.3  
 148 69.4 44.3 82.3

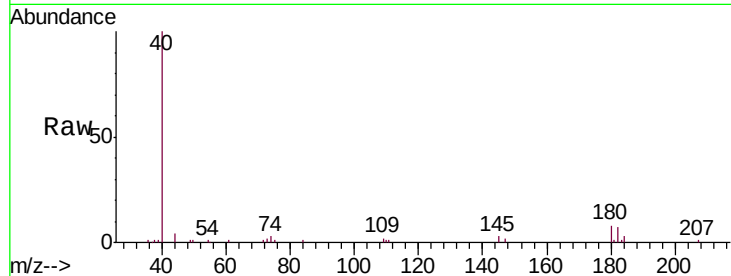




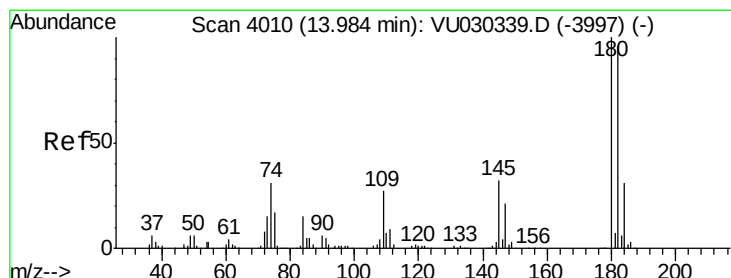
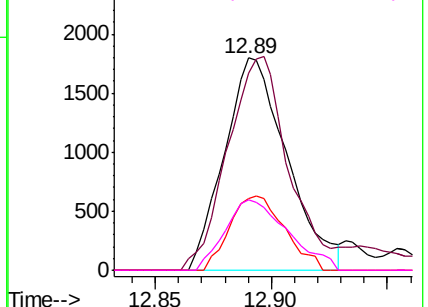
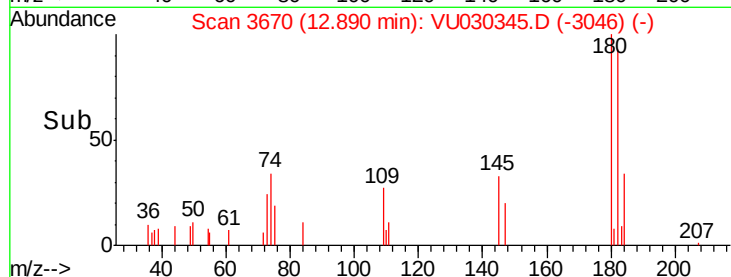
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.758 ug/L  
 RT: 12.89 min Scan# 3670  
 Delta R.T. 0.01 min  
 Lab File: VU030345.D  
 Acq: 23 Mar 2019 17:18

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BF5R2

Tgt Ion:180 Resp: 3365  
 Ion Ratio Lower Upper  
 180 100  
 182 96.9 75.9 113.9  
 184 30.1 24.1 36.1  
 145 33.4 23.8 35.8

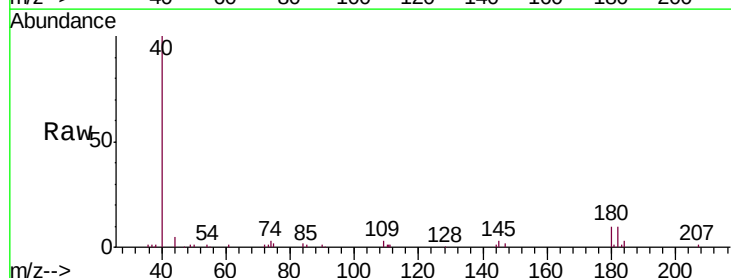


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V



#70  
 1,2,3-Trichlorobenzene  
 Concen: 1.472 ug/L  
 RT: 13.99 min Scan# 4013  
 Delta R.T. 0.01 min  
 Lab File: VU030345.D  
 Acq: 23 Mar 2019 17:18

Tgt Ion:180 Resp: 6000  
 Ion Ratio Lower Upper  
 180 100  
 182 70.0 77.4 116.2#  
 145 29.0 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

