

Data File : VU030092.D  
Acq On : 14 Mar 2019 22:18  
Operator : JC/SP  
Sample : K1918-07  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09G6

Quant Time: Mar 15 02:49:59 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 15 02:44:49 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 521814   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 513105   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 245105   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 115336   | 33.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 66.84%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 105648   | 37.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 75.84%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 171932   | 27.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 55.20%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 238720   | 92.31    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.31%  |
| 24) Chloroform-d               | 4.65    | 84    | 267688   | 43.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.48%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 158920   | 44.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.86%  |
| 32) Benzene-d6                 | 5.34    | 84    | 552544   | 41.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.66%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 182047   | 45.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 90.08%  |
| 41) Toluene-d8                 | 7.56    | 98    | 510622   | 41.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.58%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 76875    | 39.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.52%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 199043   | 88.00    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.00%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 276225   | 44.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.94%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 221941   | 46.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.48%  |

#### Target Compounds

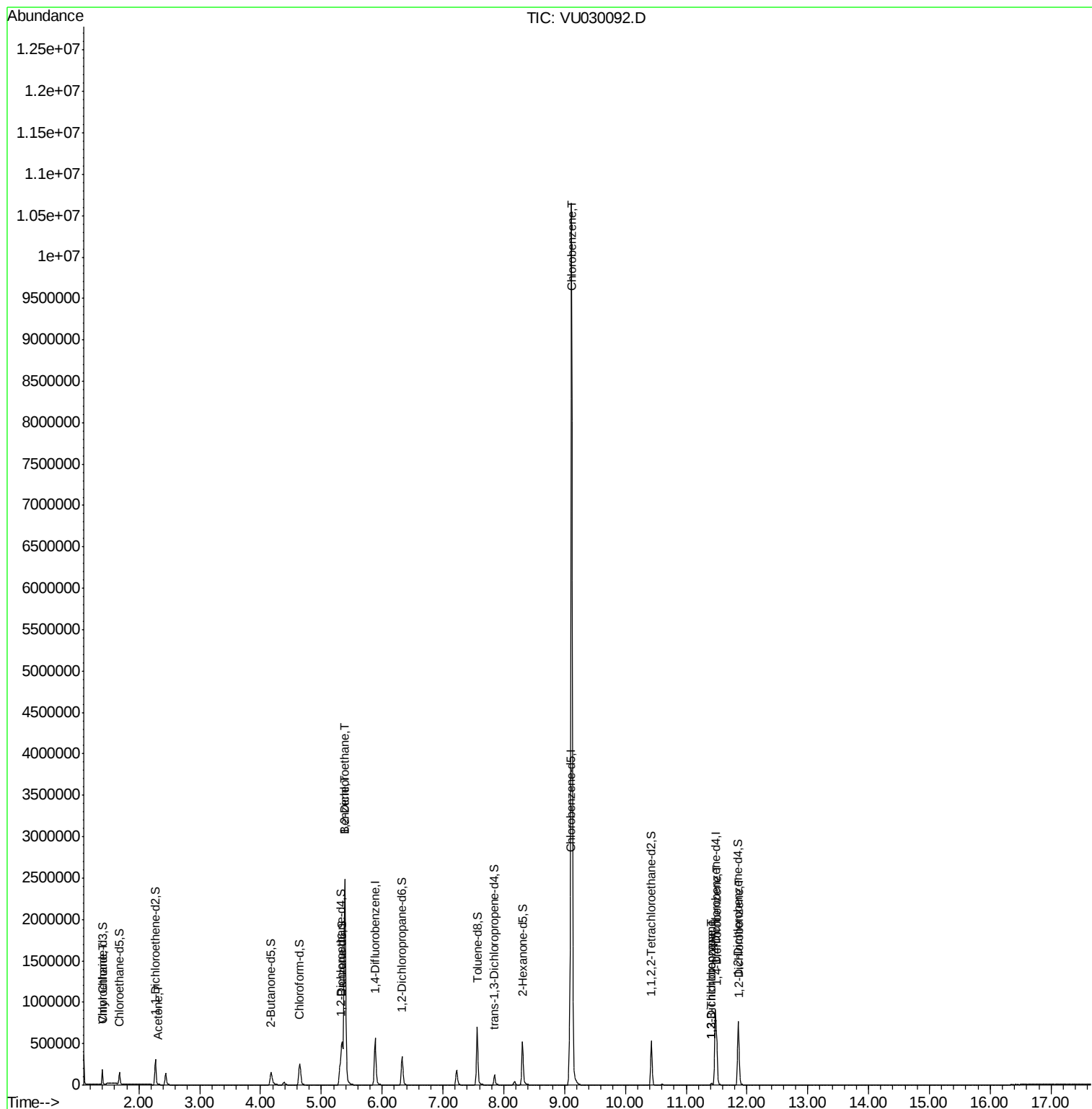
|                            |       |     |         |              | Qvalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 8) Chloroethane            | 1.40  | 64  | 6077    | 2.325 ug/L # | 31     |
| 13) Acetone                | 2.32  | 43  | 3800    | 1.257 ug/L   | 96     |
| 27) 1,2-Dichloroethane     | 5.39  | 62  | 19813   | 4.294 ug/L # | 71     |
| 33) Benzene                | 5.39  | 78  | 2634998 | 179.462 ug/L | 100    |
| 51) Chlorobenzene          | 9.12  | 112 | 6241018 | 579.885 ug/L | 100    |
| 59) 1,2,3-Trichloropropane | 11.41 | 75  | 2151    | 0.428 ug/L # | 42     |
| 62) 1,3-Dichlorobenzene    | 11.41 | 146 | 8847    | 1.118 ug/L   | 90     |
| 63) 1,4-Dichlorobenzene    | 11.50 | 146 | 229008  | 28.452 ug/L  | 100    |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 47839   | 6.004 ug/L   | 97     |

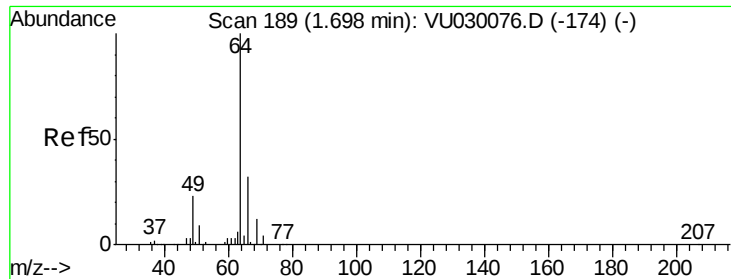
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Mar 15 02:44:49 2019  
Response via : Initial Calibration





#8

Chloroethane

Concen: 2.325 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.30 min

Lab File: VU030092.D

Acq: 14 Mar 2019 22:18

Instrument :

MSVOA\_U

ClientSampleId :

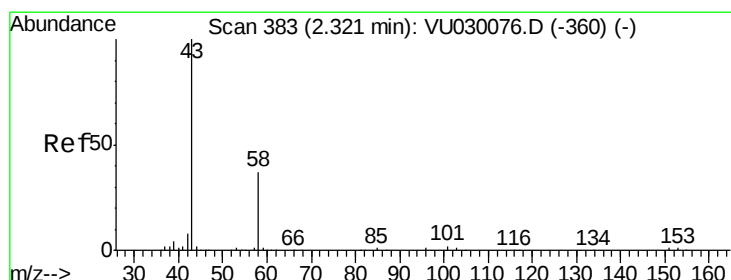
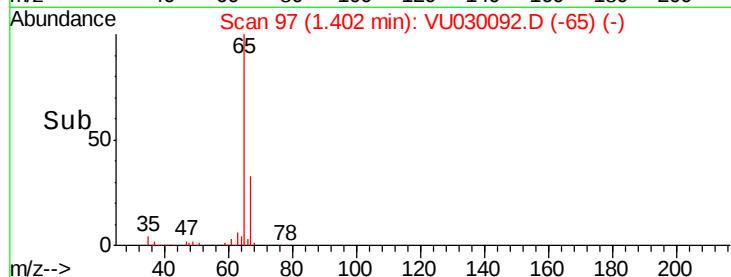
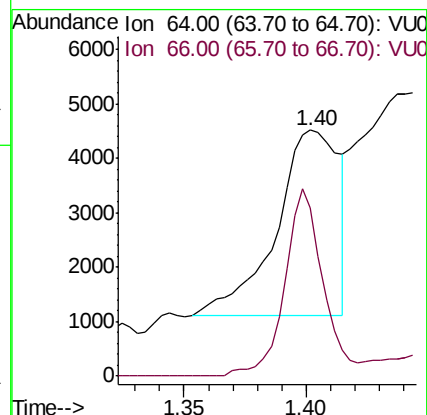
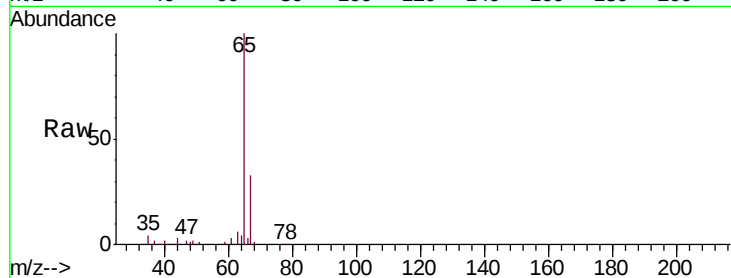
C09G6

Tgt Ion: 64 Resp: 6077

Ion Ratio Lower Upper

64 100

66 68.3 21.3 39.6#



#13

Acetone

Concen: 1.257 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VU030092.D

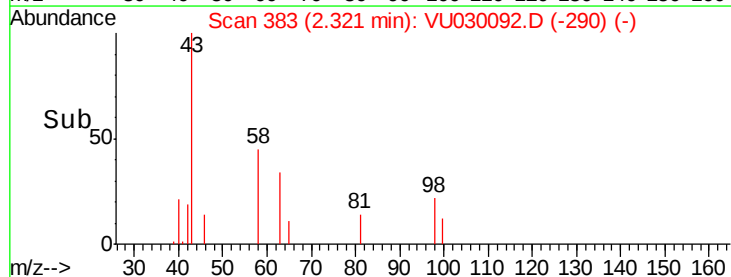
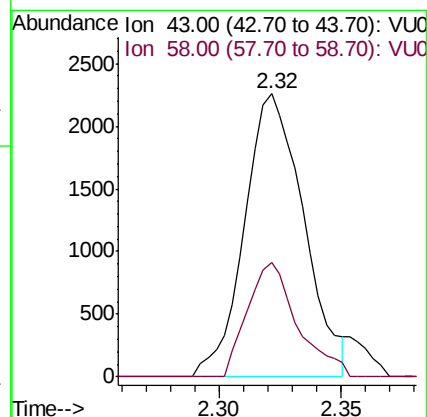
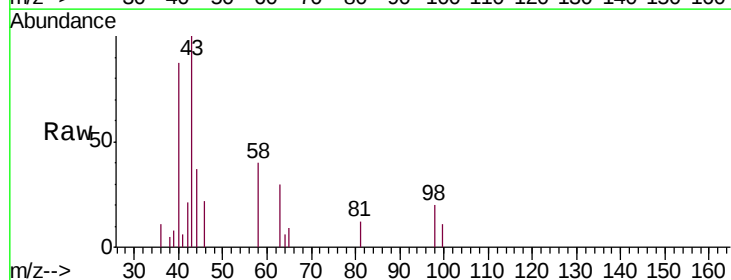
Acq: 14 Mar 2019 22:18

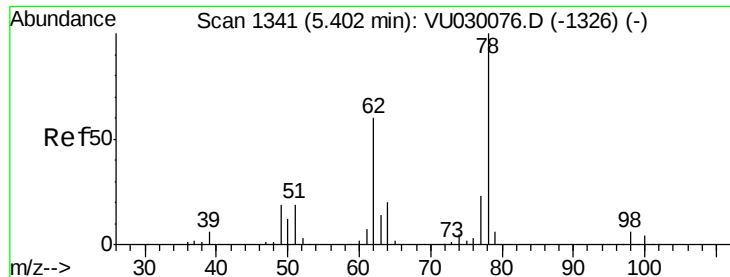
Tgt Ion: 43 Resp: 3800

Ion Ratio Lower Upper

43 100

58 34.0 0.0 73.0





#27

1,2-Dichloroethane

Concen: 4.294 ug/L

RT: 5.39 min Scan# 1337

Delta R.T. -0.01 min

Lab File: VU030092.D

Acq: 14 Mar 2019 22:18

Instrument :

MSVOA\_U

ClientSampleId :

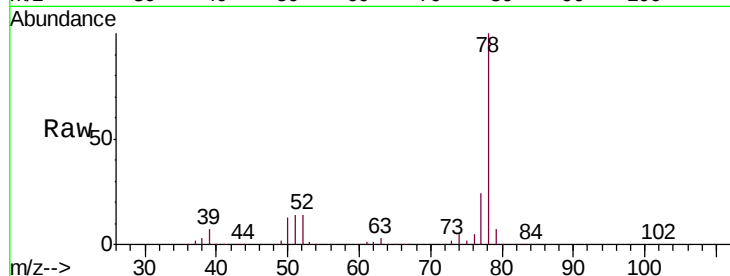
C09G6

Tgt Ion: 62 Resp: 19813

Ion Ratio Lower Upper

62 100

98 0.0 8.8 13.2#



Abundance Ion 62.00 (61.70 to 62.70): VU030076.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU030076.D (-1326) (-)

5.39

10000

8000

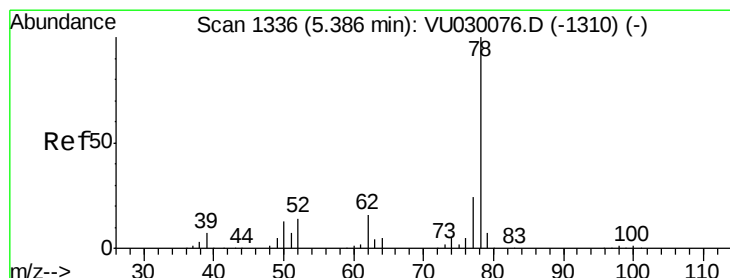
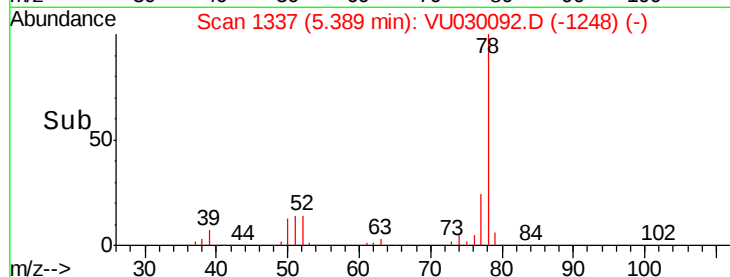
6000

4000

2000

0

Time--> 5.30 5.35 5.40 5.45



#33

Benzene

Concen: 179.462 ug/L

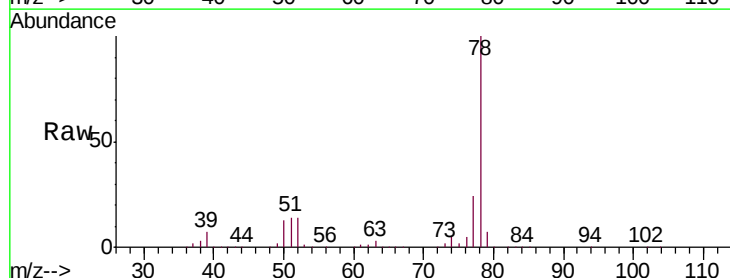
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU030092.D

Acq: 14 Mar 2019 22:18

Tgt Ion: 78 Resp: 2634998



Abundance Ion 78.00 (77.70 to 78.70): VU030076.D (-1310) (-)

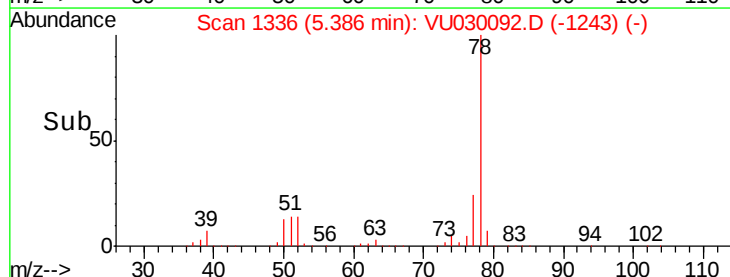
5.39

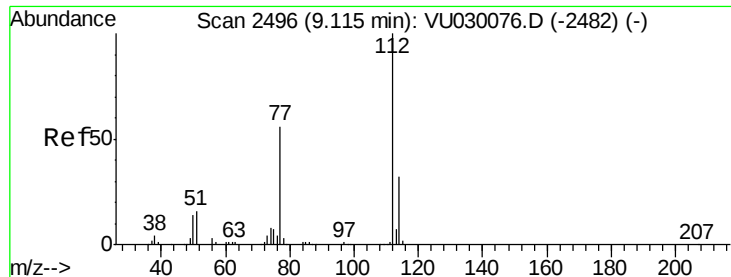
1000000

500000

0

Time--> 5.20 5.30 5.40 5.50 5.60





#51

Chlorobenzene

Concen: 579.885 ug/L

RT: 9.12 min Scan# 2497

Delta R.T. 0.00 min

Lab File: VU030092.D

Acq: 14 Mar 2019 22:18

Instrument :

MSVOA\_U

ClientSampleId :

C09G6

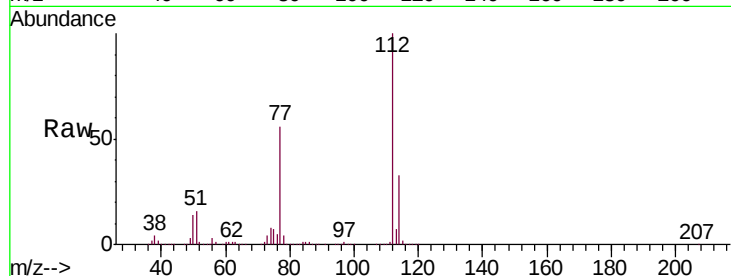
Tgt Ion:112 Resp: 6241018

Ion Ratio Lower Upper

112 100

114 32.6 22.5 41.9

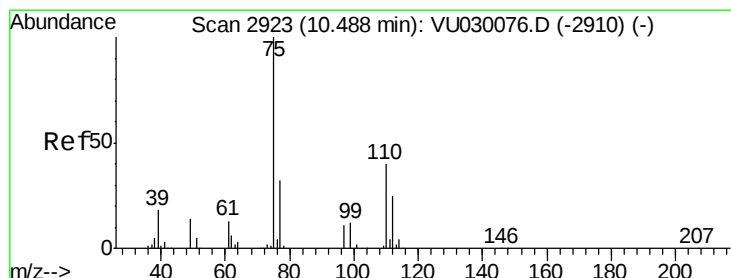
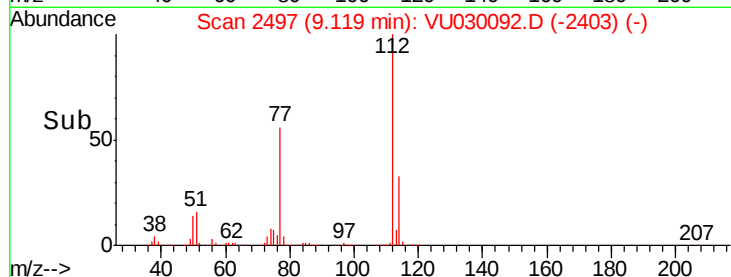
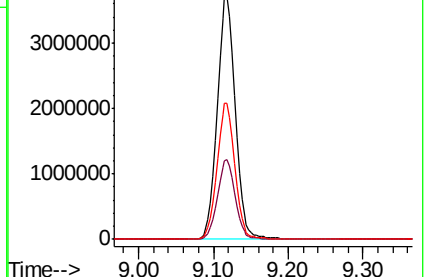
77 55.6 44.6 66.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU



#59

1,2,3-Trichloropropane

Concen: 0.428 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.93 min

Lab File: VU030092.D

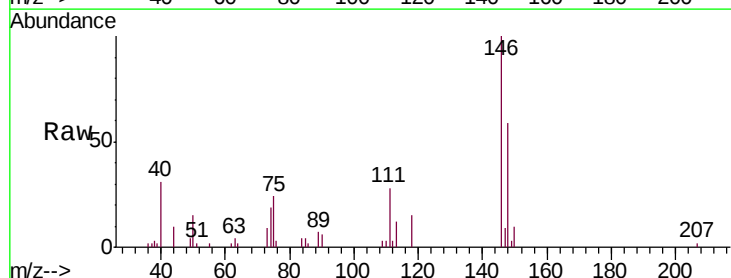
Acq: 14 Mar 2019 22:18

Tgt Ion: 75 Resp: 2151

Ion Ratio Lower Upper

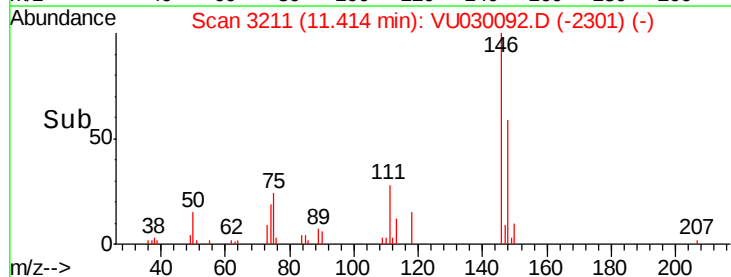
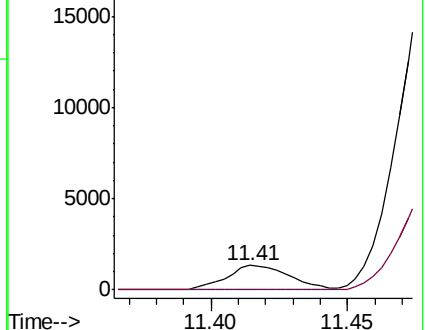
75 100

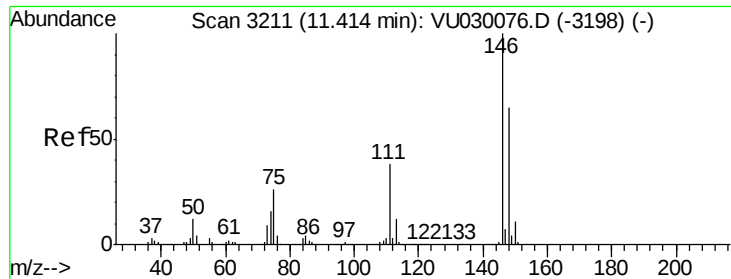
77 0.0 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#62

1,3-Dichlorobenzene

Concen: 1.118 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030092.D

Acq: 14 Mar 2019 22:18

Instrument :

MSVOA\_U

ClientSampleId :

C09G6

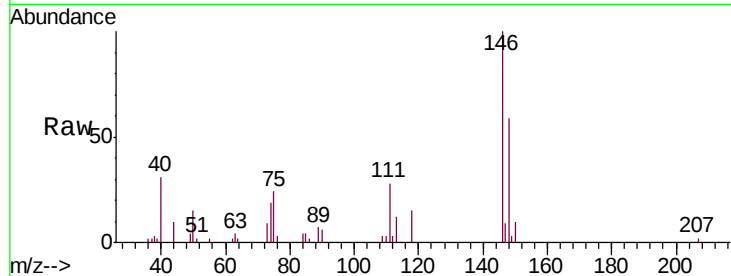
Tgt Ion:146 Resp: 8847

Ion Ratio Lower Upper

146 100

111 28.1 26.7 49.5

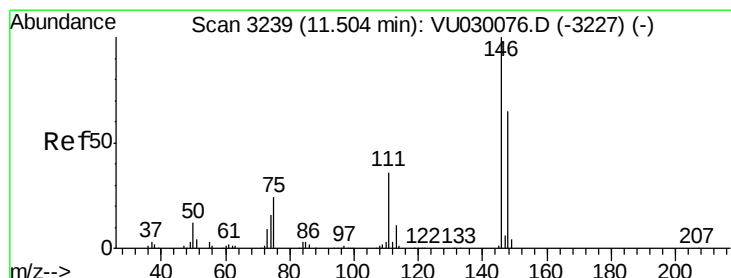
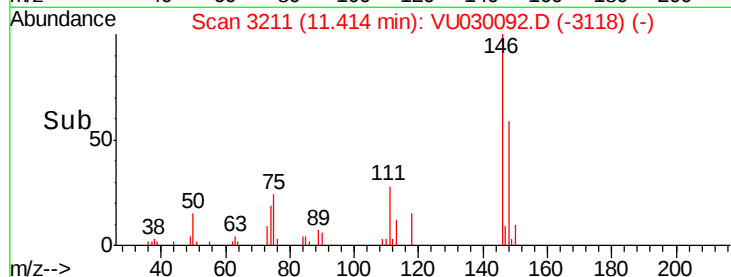
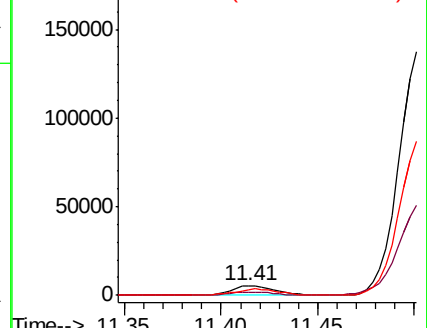
148 59.5 44.9 83.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 28.452 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030092.D

Acq: 14 Mar 2019 22:18

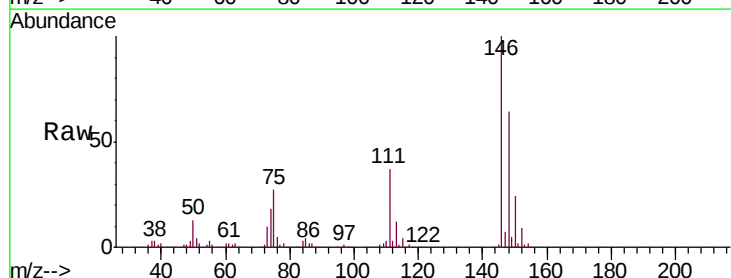
Tgt Ion:146 Resp: 229008

Ion Ratio Lower Upper

146 100

111 37.0 25.5 47.3

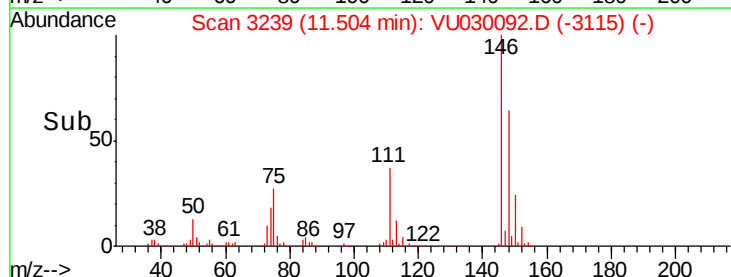
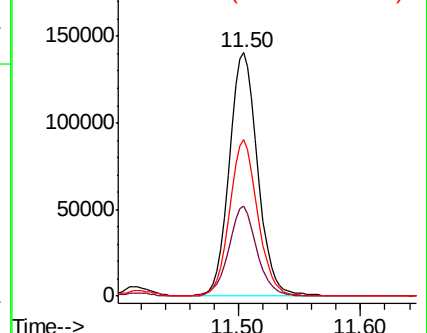
148 64.1 45.0 83.6

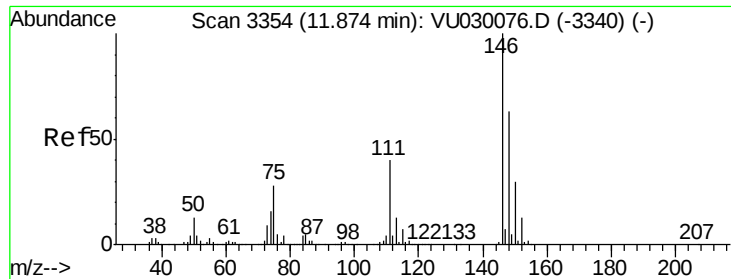


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

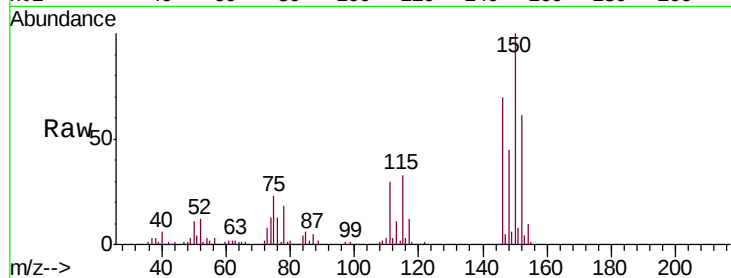




#65  
 1,2-Dichlorobenzene  
 Concen: 6.004 ug/L  
 RT: 11.88 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VU030092.D  
 Acq: 14 Mar 2019 22:18

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09G6

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.6  | 30.9  | 46.3  |
| 148     | 64.5  | 51.2  | 76.8  |



Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

