

Data File : VU032633.D  
Acq On : 12 Jun 2019 00:14  
Operator : JC/SP  
Sample : K3293-11MS  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8R3MS

Quant Time: Jun 12 07:34:48 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jun 12 07:28:55 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 167301   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 158249   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 79207    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 40850    | 37.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 75.26%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 36674    | 42.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.08%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 93721    | 44.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.20%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 92737    | 102.09   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.09% |
| 24) Chloroform-d               | 4.64    | 84    | 95437    | 47.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.28%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 65527    | 51.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.76% |
| 32) Benzene-d6                 | 5.33    | 84    | 187403   | 45.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.24%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 62537    | 48.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.10%  |
| 41) Toluene-d8                 | 7.56    | 98    | 171970   | 44.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.30%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 27447    | 44.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.04%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 53061    | 84.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 84.92%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 91590    | 49.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.14%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 75048    | 49.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.94%  |

#### Target Compounds

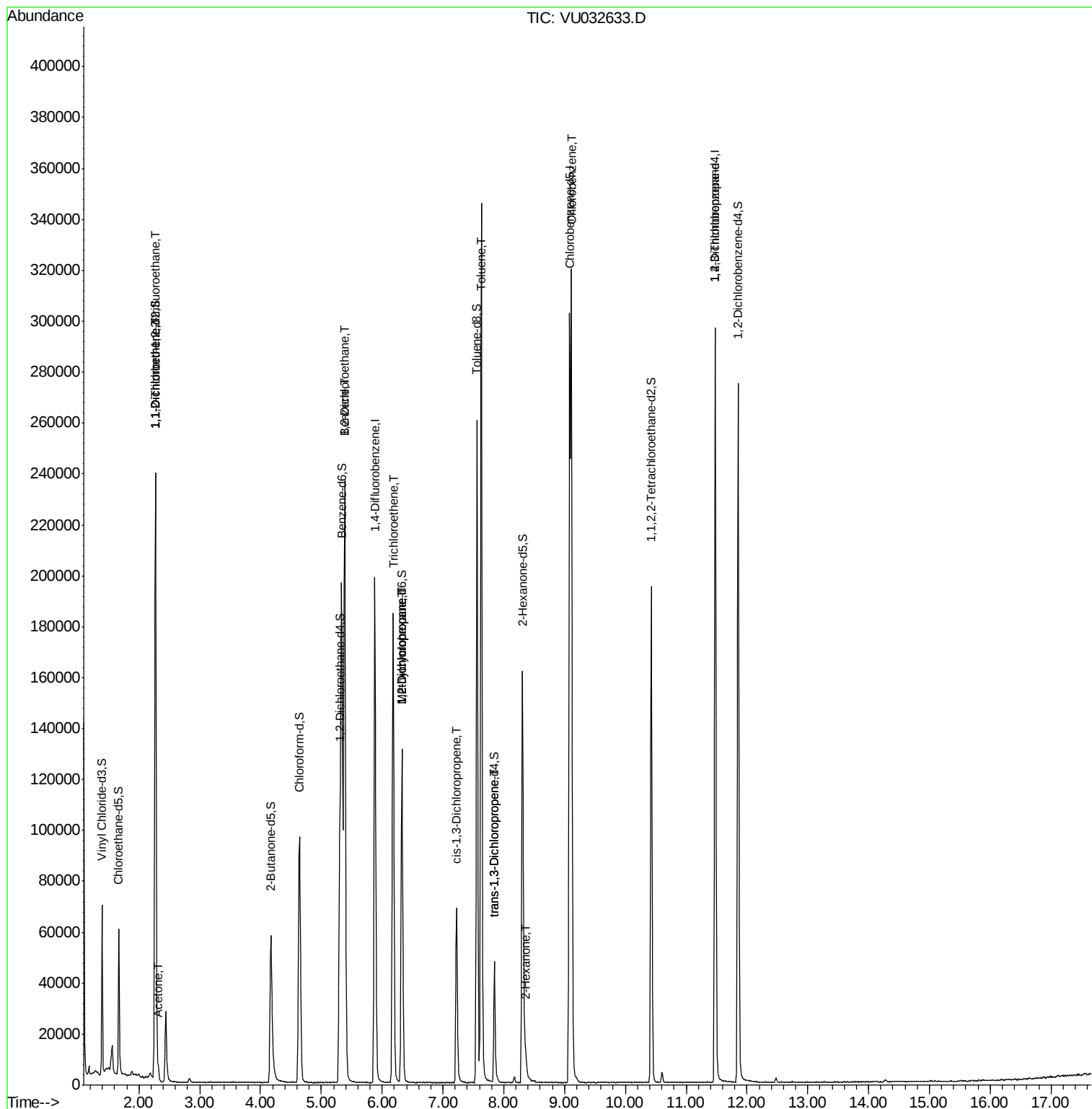
|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 700    | 0.685 ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 51742  | 52.122 ug/L  | 84     |
| 13) Acetone                    | 2.32  | 43  | 5288   | 5.642 ug/L   | 91     |
| 27) 1,2-Dichloroethane         | 5.39  | 62  | 2155   | 1.347 ug/L # | 75     |
| 33) Benzene                    | 5.38  | 78  | 231928 | 52.162 ug/L  | 100    |
| 34) Trichloroethene            | 6.18  | 95  | 61415  | 50.770 ug/L  | 99     |
| 35) Methylcyclohexane          | 6.32  | 83  | 14261  | 7.282 ug/L # | 19     |
| 37) 1,2-Dichloropropane        | 6.32  | 63  | 6831   | 5.796 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 1814   | 0.975 ug/L # | 74     |
| 42) Toluene                    | 7.63  | 91  | 249993 | 51.339 ug/L  | 98     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 1222   | 0.740 ug/L # | 79     |
| 48) 2-Hexanone                 | 8.36  | 43  | 5552   | 3.565 ug/L # | 76     |
| 51) Chlorobenzene              | 9.11  | 112 | 163498 | 52.116 ug/L  | 100    |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 9261   | 6.044 ug/L # | 85     |

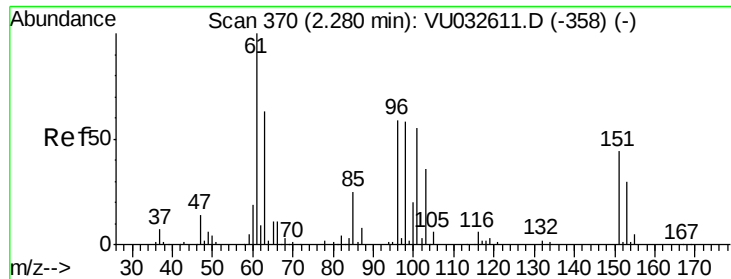
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jun 12 07:28:55 2019  
Response via : Initial Calibration





#10

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

Concen: 0.685 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU032633.D

Acq: 12 Jun 2019 00:14

Instrument :

MSVOA\_U

ClientSampleId :

DB8R3MS

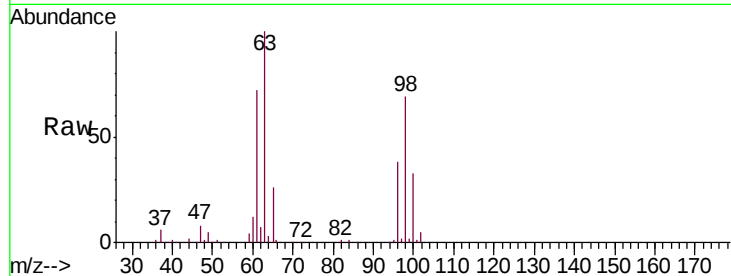
Tgt Ion: 101 Resp: 700

Ion Ratio Lower Upper

101 100

85 0.0 36.1 54.1#

151 0.0 63.0 94.4#



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

2.27

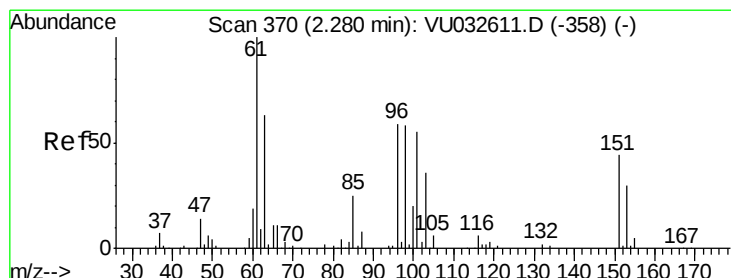
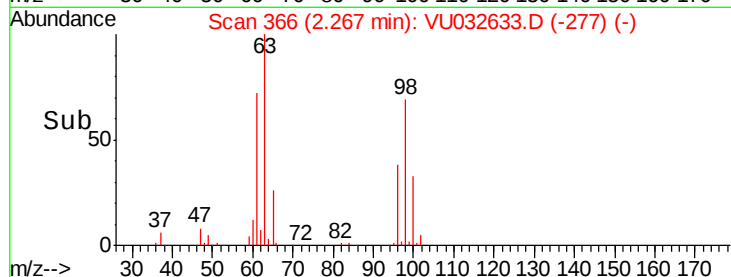
400

200

0

2.24 2.26 2.28 2.30

Time-->



#12

1,1-Dichloroethene

Concen: 52.122 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032633.D

Acq: 12 Jun 2019 00:14

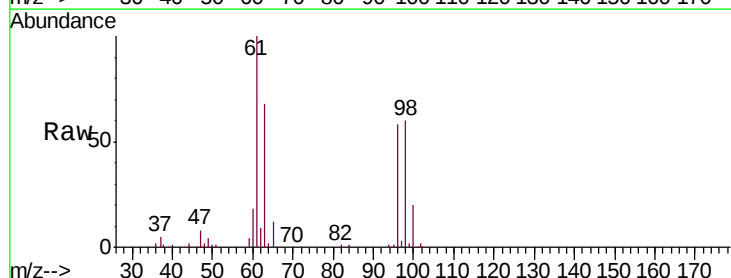
Tgt Ion: 96 Resp: 51742

Ion Ratio Lower Upper

96 100

61 171.6 129.5 240.5

63 116.8 103.4 192.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

80000

60000

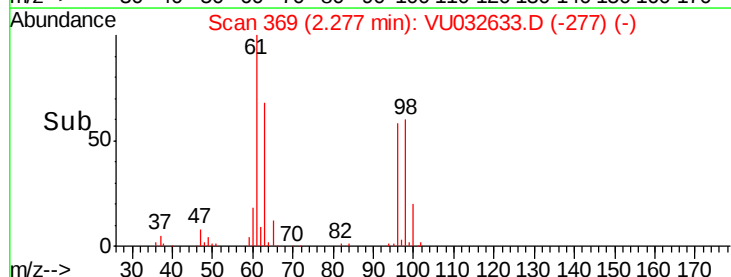
40000

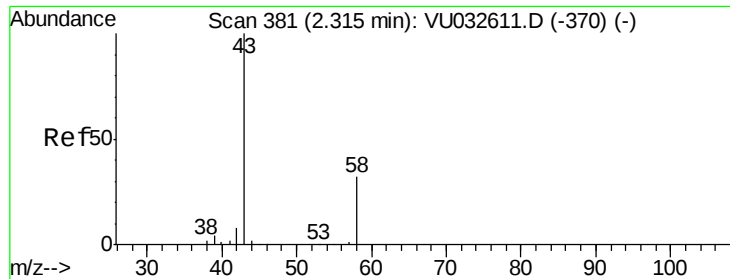
20000

0

2.20 2.25 2.30 2.35

Time-->





#13

Acetone

Concen: 5.642 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032633.D

Acq: 12 Jun 2019 00:14

Instrument :

MSVOA\_U

ClientSampleId :

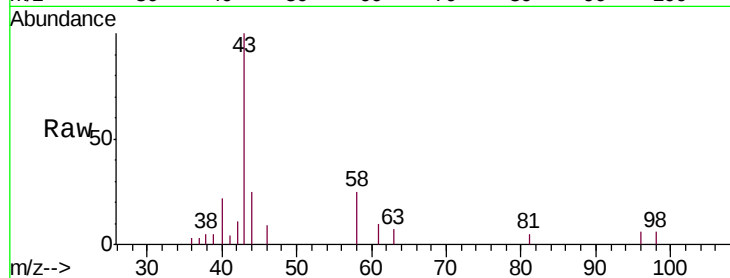
DB8R3MS

Tgt Ion: 43 Resp: 5288

Ion Ratio Lower Upper

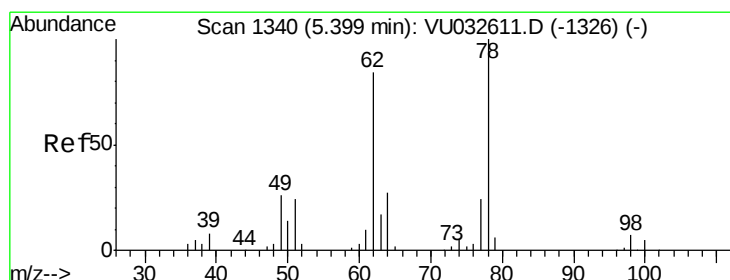
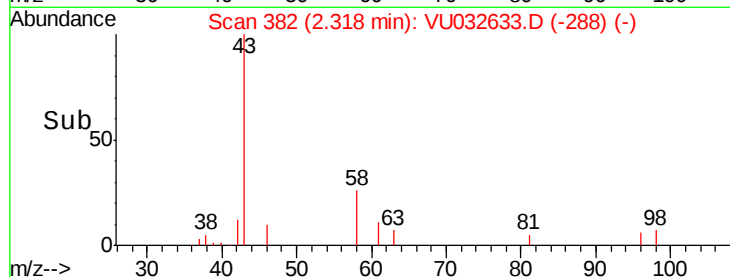
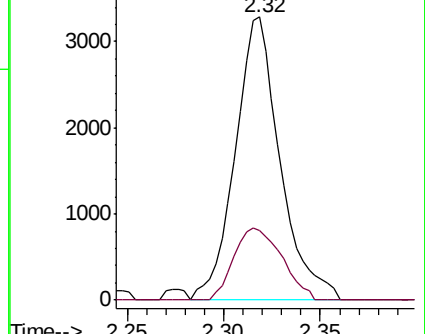
43 100

58 27.2 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU032611.D (-370) (-)

Ion 58.00 (57.70 to 58.70): VU032611.D (-370) (-)



#27

1,2-Dichloroethane

Concen: 1.347 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. -0.01 min

Lab File: VU032633.D

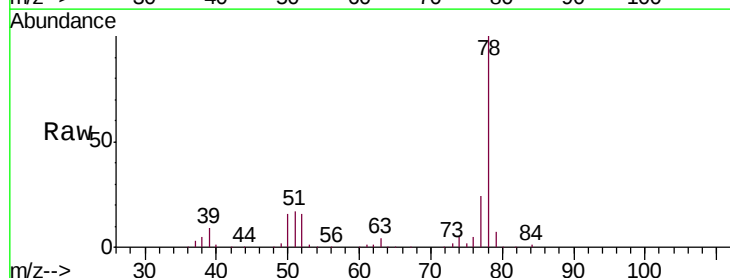
Acq: 12 Jun 2019 00:14

Tgt Ion: 62 Resp: 2155

Ion Ratio Lower Upper

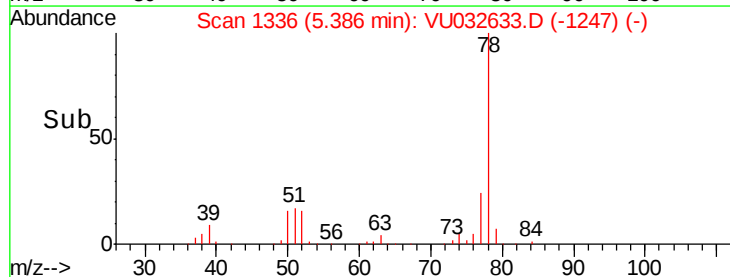
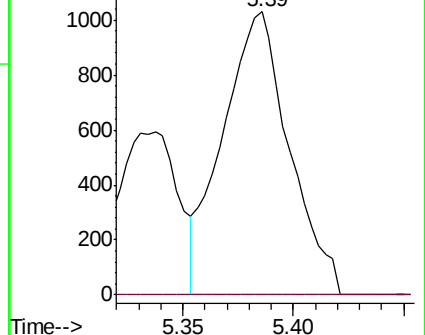
62 100

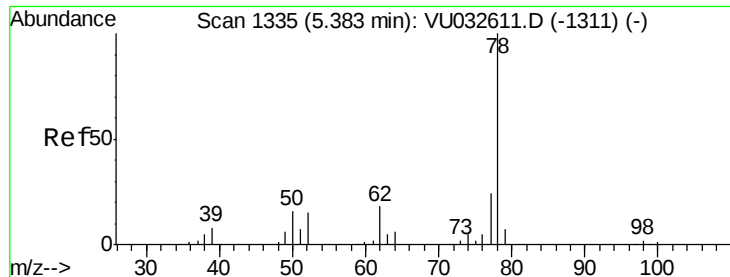
98 0.0 7.2 10.8#



Abundance Ion 62.00 (61.70 to 62.70): VU032611.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU032611.D (-1326) (-)





#33

Benzene

Concen: 52.162 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU032633.D

Acq: 12 Jun 2019 00:14

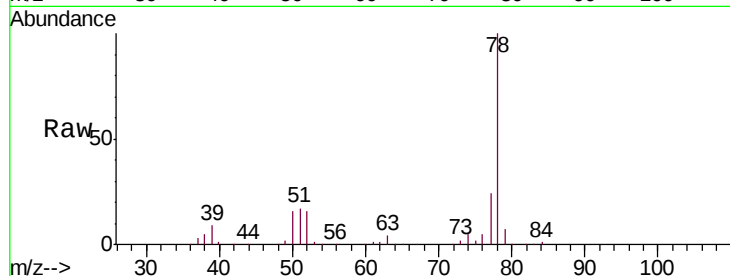
Instrument :

MSVOA\_U

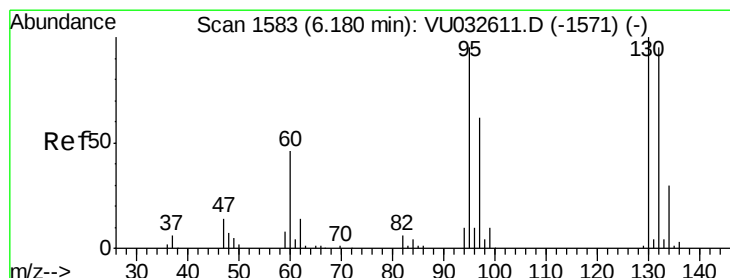
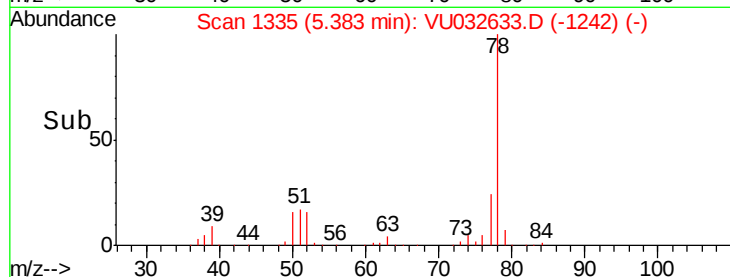
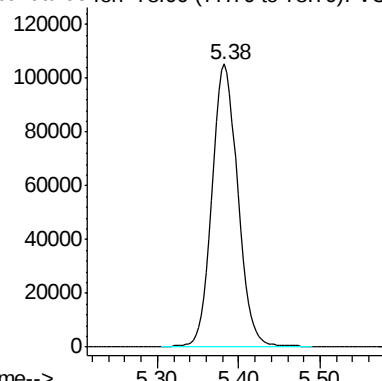
ClientSampleId :

DB8R3MS

Tgt Ion: 78 Resp: 231928



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 50.770 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032633.D

Acq: 12 Jun 2019 00:14

Tgt Ion: 95 Resp: 61415

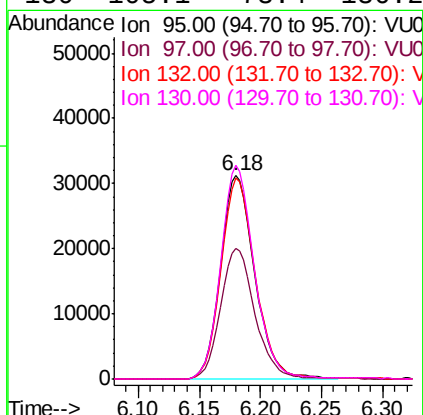
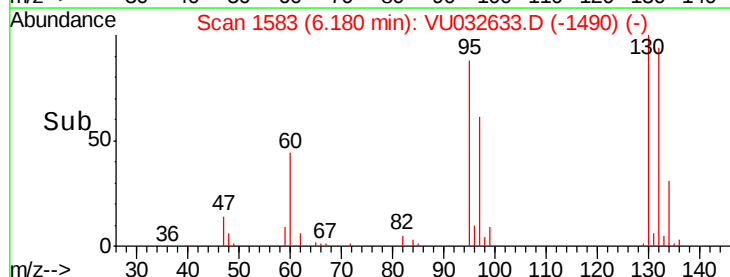
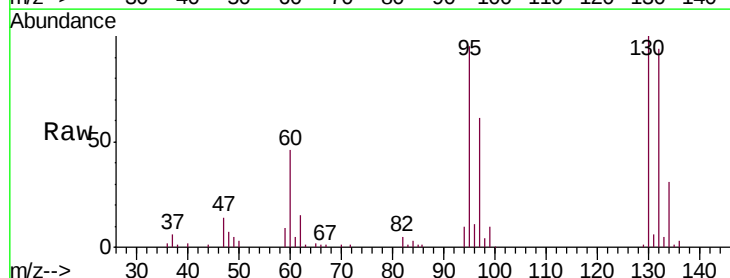
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.6  | 45.8  | 85.2  |
| 132 | 98.6  | 71.0  | 131.8 |
| 130 | 105.1 | 73.4  | 136.2 |

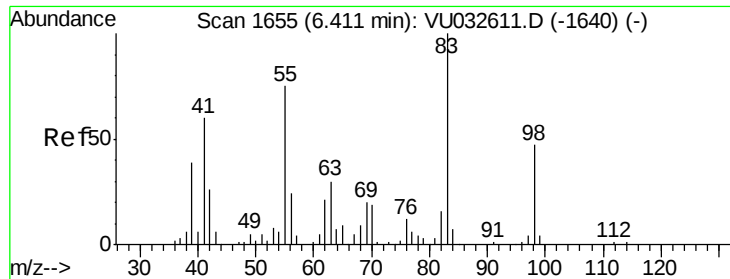
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

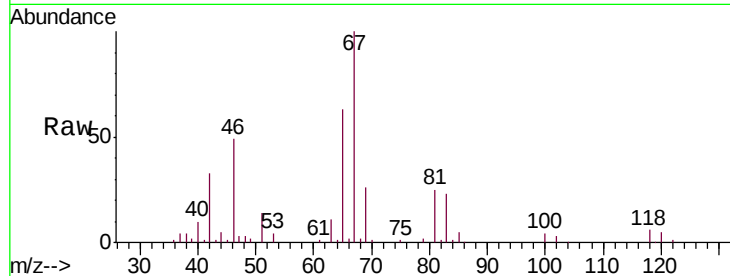




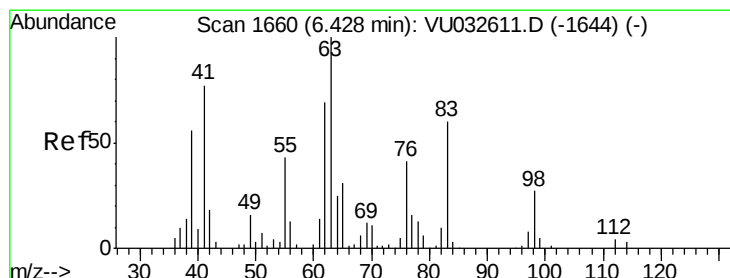
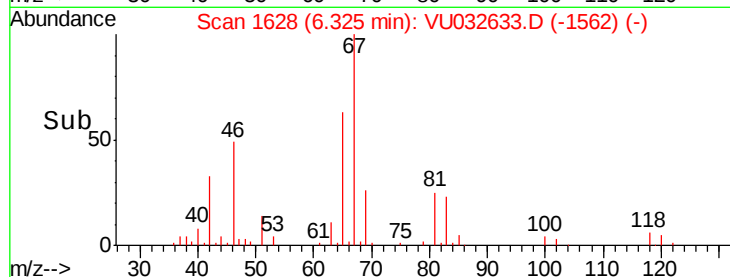
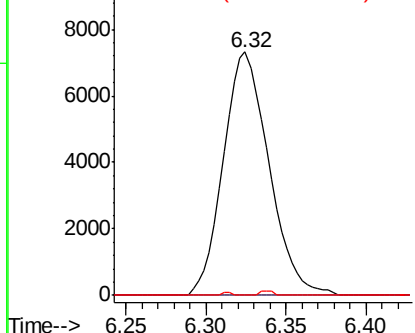
#35  
Methylcyclohexane  
Concen: 7.282 ug/L  
RT: 6.32 min Scan# 1628  
Delta R.T. -0.09 min  
Lab File: VU032633.D  
Acq: 12 Jun 2019 00:14

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8R3MS

Tgt Ion: 83 Resp: 14261  
Ion Ratio Lower Upper  
83 100  
55 0.0 60.2 90.4#  
98 0.3 37.4 56.2#

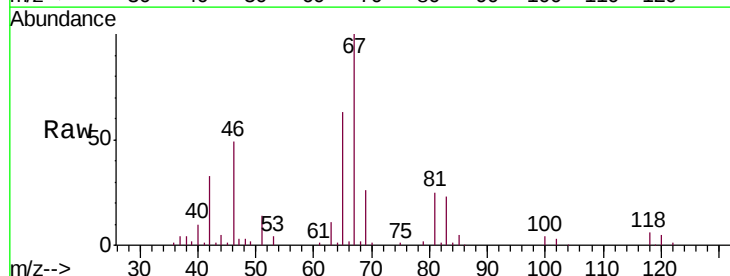


Abundance Ion 83.00 (82.70 to 83.70): VU0  
Ion 55.00 (54.70 to 55.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

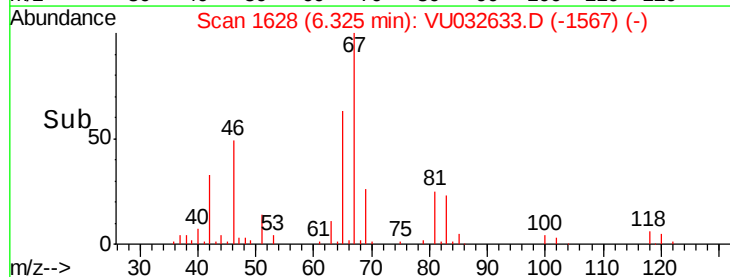
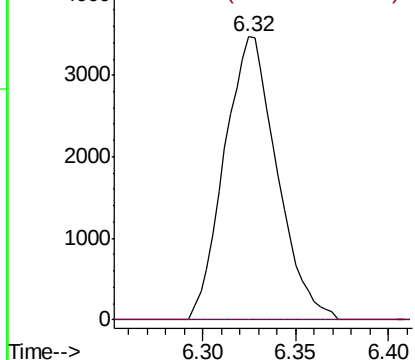


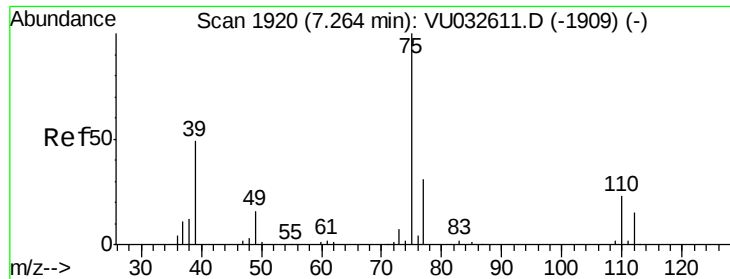
#37  
1,2-Dichloropropane  
Concen: 5.796 ug/L  
RT: 6.32 min Scan# 1628  
Delta R.T. -0.10 min  
Lab File: VU032633.D  
Acq: 12 Jun 2019 00:14

Tgt Ion: 63 Resp: 6831  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU0  
Ion 112.00 (111.70 to 112.70): V

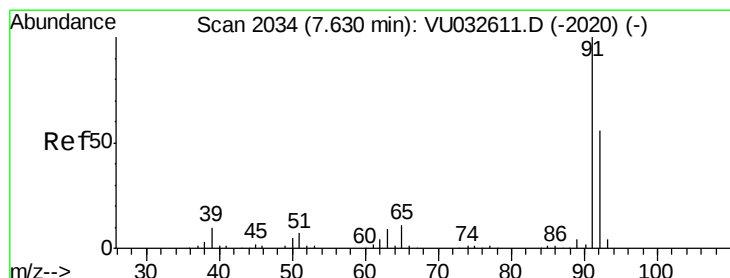
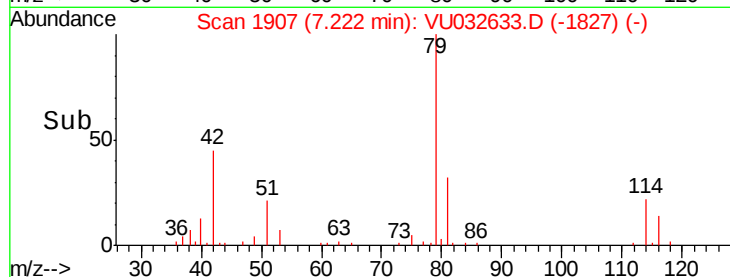
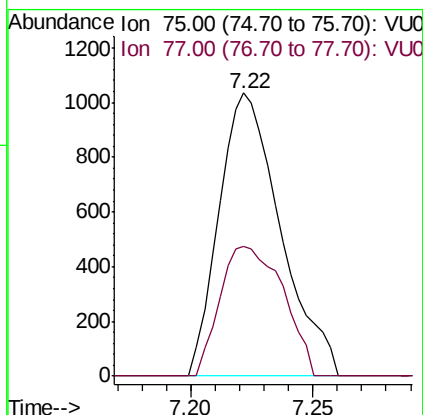
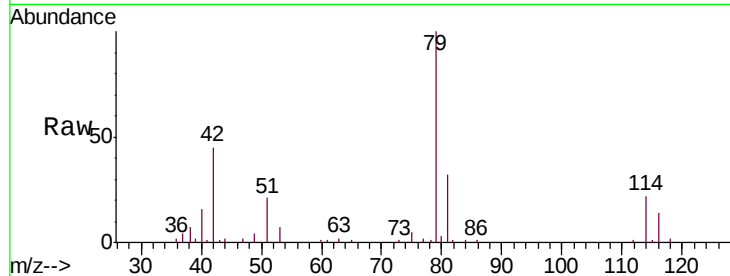




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.975 ug/L  
 RT: 7.22 min Scan# 1907  
 Delta R.T. -0.04 min  
 Lab File: VU032633.D  
 Acq: 12 Jun 2019 00:14

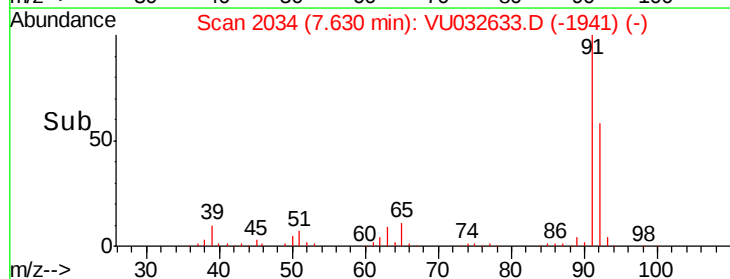
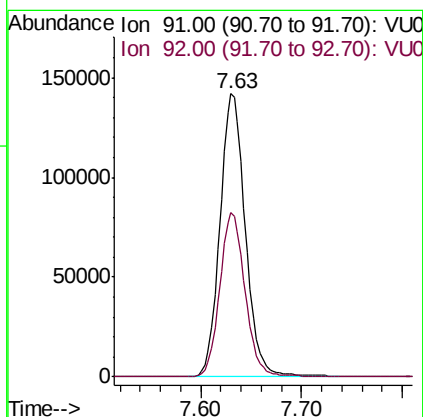
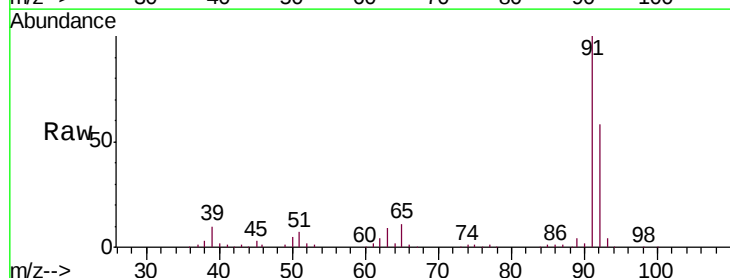
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 DB8R3MS

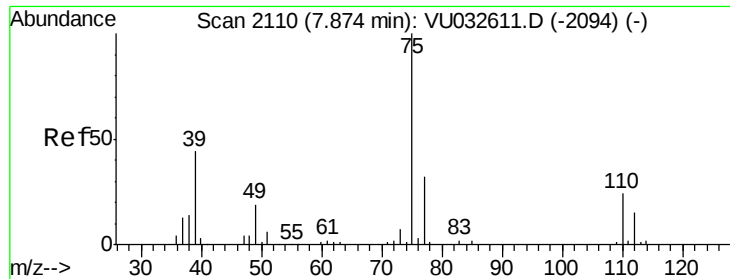
Tgt Ion: 75 Resp: 1814  
 Ion Ratio Lower Upper  
 75 100  
 77 45.9 22.0 41.0#



#42  
 Toluene  
 Concen: 51.339 ug/L  
 RT: 7.63 min Scan# 2034  
 Delta R.T. -0.00 min  
 Lab File: VU032633.D  
 Acq: 12 Jun 2019 00:14

Tgt Ion: 91 Resp: 249993  
 Ion Ratio Lower Upper  
 91 100  
 92 57.9 39.7 73.7





#44

trans-1,3-Dichloropropene

Concen: 0.740 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU032633.D

Acq: 12 Jun 2019 00:14

Instrument :

MSVOA\_U

ClientSampleId :

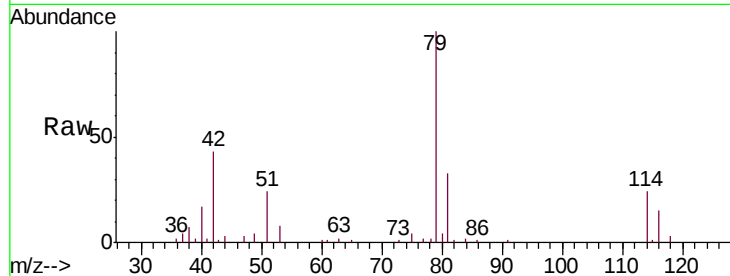
DB8R3MS

Tgt Ion: 75 Resp: 1222

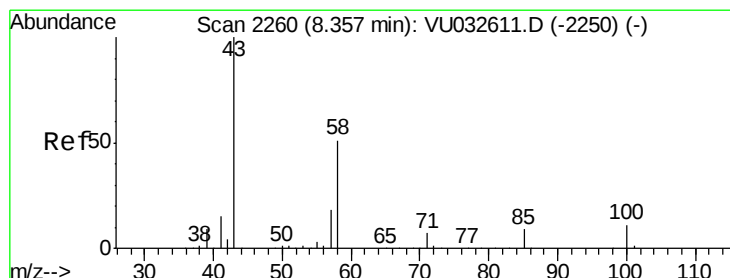
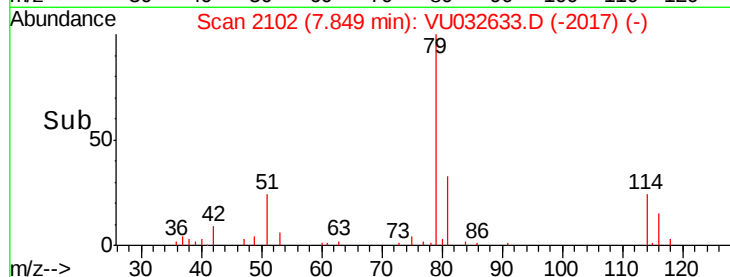
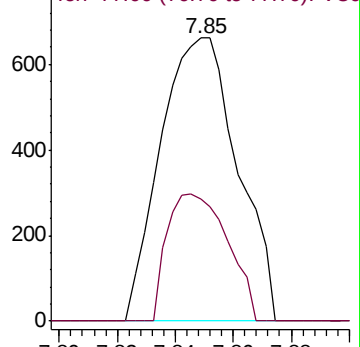
Ion Ratio Lower Upper

75 100

77 43.2 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VU032633.D (-2102) (-)



#48

2-Hexanone

Concen: 3.565 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.01 min

Lab File: VU032633.D

Acq: 12 Jun 2019 00:14

Tgt Ion: 43 Resp: 5552

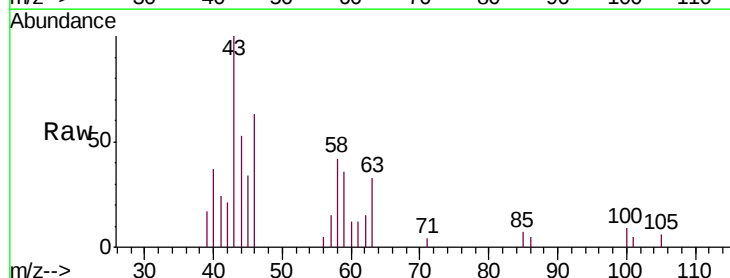
Ion Ratio Lower Upper

43 100

58 34.7 42.0 63.0#

57 8.7 14.6 22.0#

100 4.1 9.2 13.8#

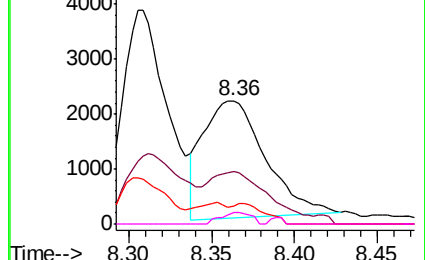
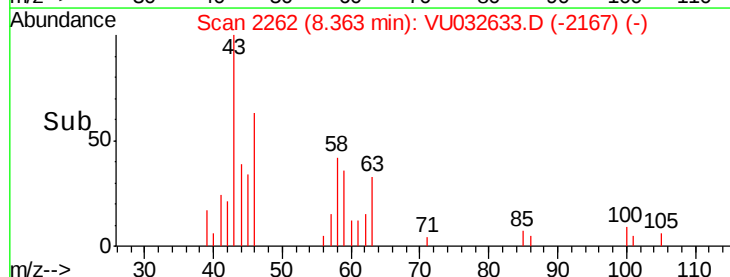


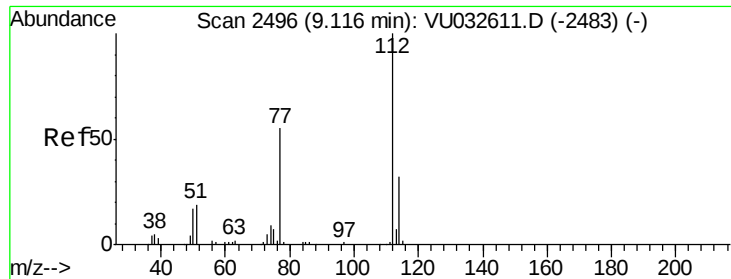
Abundance Ion 43.00 (42.70 to 43.70): VU032633.D (-2167) (-)

Ion 58.00 (57.70 to 58.70): VU032633.D (-2167) (-)

Ion 57.00 (56.70 to 57.70): VU032633.D (-2167) (-)

Ion 100.00 (99.70 to 100.70): VU032633.D (-2167) (-)

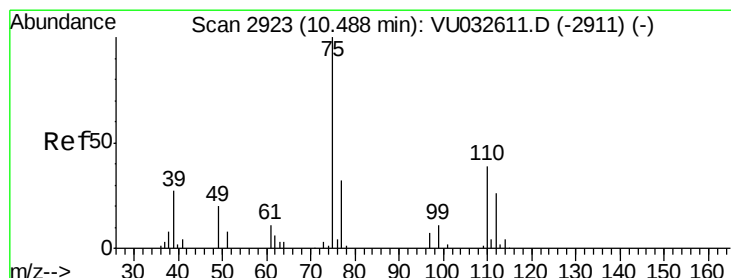
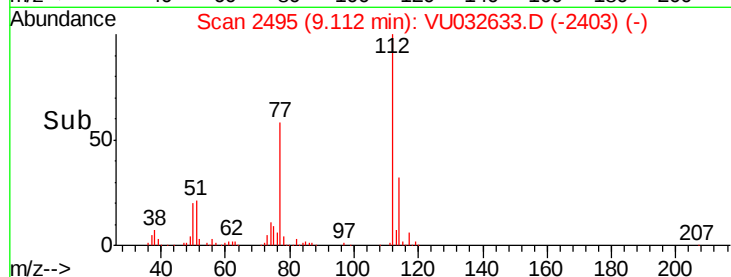
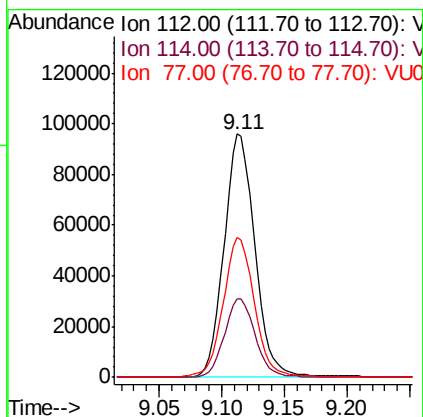
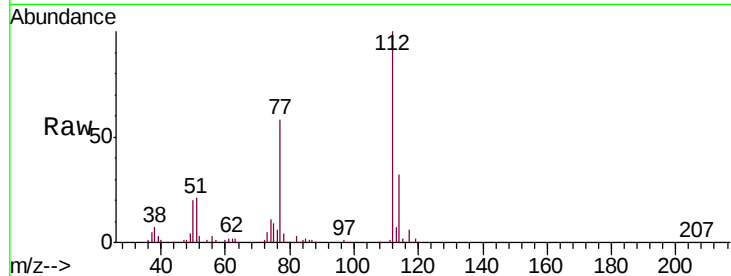




#51  
Chlorobenzene  
Concen: 52.116 ug/L  
RT: 9.11 min Scan# 2495  
Delta R.T. -0.00 min  
Lab File: VU032633.D  
Acq: 12 Jun 2019 00:14

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8R3MS

Tgt Ion: 112 Resp: 163498  
Ion Ratio Lower Upper  
112 100  
114 32.1 22.6 42.0  
77 57.5 46.1 69.1



#59  
1,2,3-Trichloropropane  
Concen: 6.044 ug/L  
RT: 11.48 min Scan# 3231  
Delta R.T. 0.99 min  
Lab File: VU032633.D  
Acq: 12 Jun 2019 00:14

Tgt Ion: 75 Resp: 9261  
Ion Ratio Lower Upper  
75 100  
77 40.1 25.6 38.4#

