

Data File : VU033455.D  
Acq On : 26 Jul 2019 15:56  
Operator : JC/SP  
Sample : K3976-17DL 4X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0CC5DL

Quant Time: Jul 27 02:02:40 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jul 27 01:57:42 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 255067   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 262002   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 110591   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 94134    | 48.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 97.50%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 88459    | 53.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 107.26% |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 128774   | 36.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.54%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 142215   | 116.24   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 116.24% |
| 24) Chloroform-d               | 4.62    | 84    | 167410   | 51.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.48% |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 115596   | 55.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 111.40% |
| 32) Benzene-d6                 | 5.32    | 84    | 329245   | 51.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.46% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 110844   | 53.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.68% |
| 41) Toluene-d8                 | 7.55    | 98    | 287631   | 47.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.92%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 48815    | 48.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.70%  |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 96279    | 103.73   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.73% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 171618   | 55.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 110.14% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 114560   | 58.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 116.18% |

#### Target Compounds

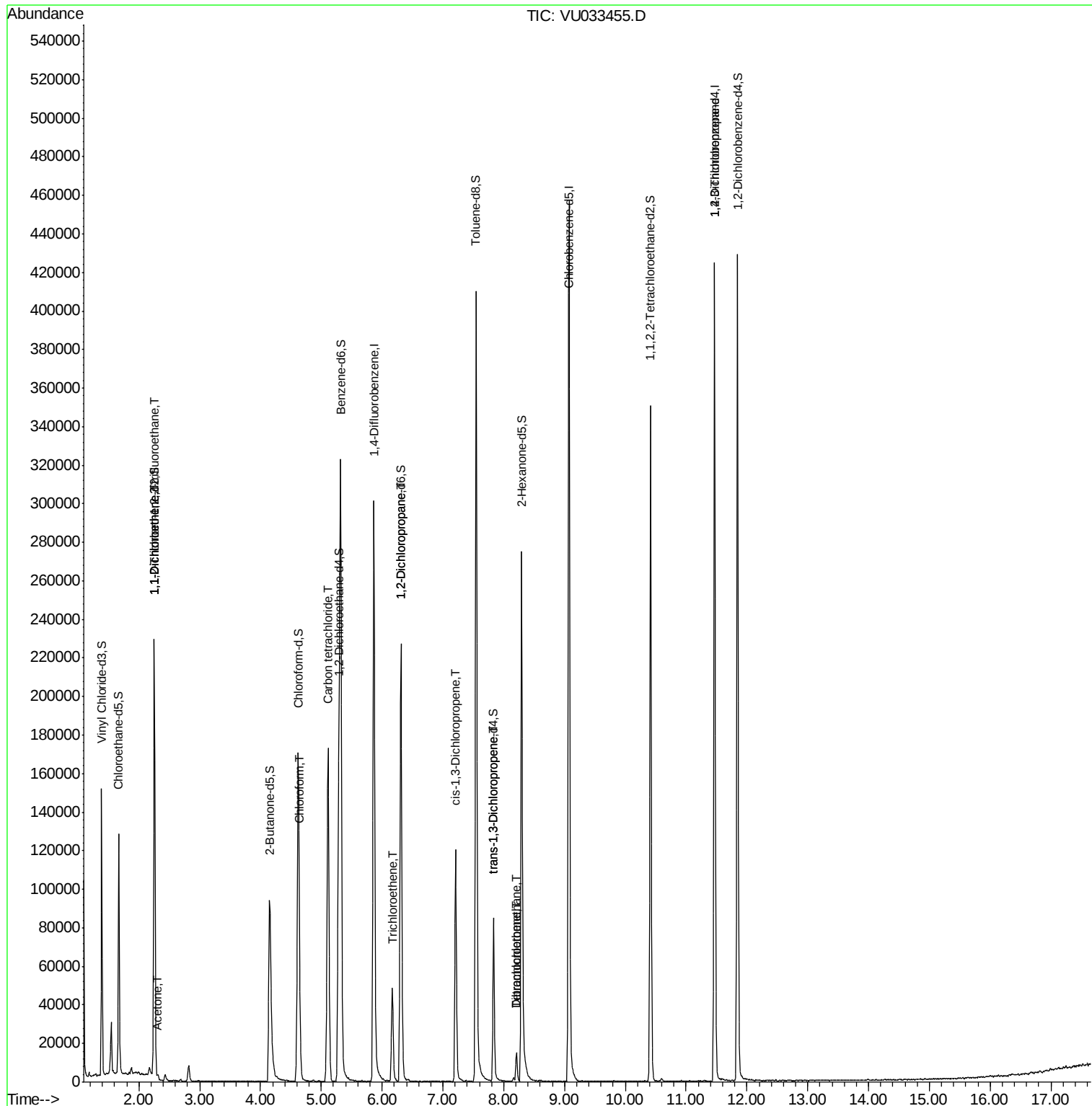
|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.25  | 101 | 1117   | 0.642 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.25  | 96  | 1208   | 0.710 ug/L # | 1      |
| 13) Acetone                    | 2.30  | 43  | 1308   | 0.856 ug/L   | 97     |
| 25) Chloroform                 | 4.65  | 83  | 10500  | 2.919 ug/L   | 99     |
| 31) Carbon tetrachloride       | 5.11  | 117 | 123932 | 46.331 ug/L  | 99     |
| 34) Trichloroethene            | 6.17  | 95  | 17127  | 8.571 ug/L   | 97     |
| 37) 1,2-Dichloropropane        | 6.31  | 63  | 12194  | 5.885 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene    | 7.21  | 75  | 2987   | 0.940 ug/L # | 69     |
| 44) trans-1,3-Dichloropropene  | 7.83  | 75  | 2152   | 0.751 ug/L   | 85     |
| 46) Tetrachloroethene          | 8.21  | 164 | 3171   | 2.050 ug/L   | 87     |
| 49) Dibromochloromethane       | 8.21  | 129 | 3328   | 1.522 ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.47 | 75  | 12971  | 4.808 ug/L # | 84     |

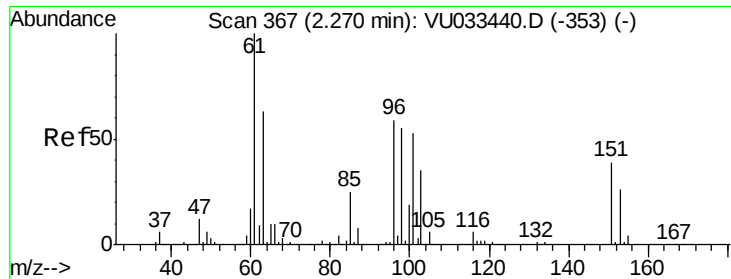
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jul 27 01:57:42 2019  
Response via : Initial Calibration





#10

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

Concen: 0.642 ug/L

RT: 2.25 min Scan# 362

Delta R.T. -0.02 min

Lab File: VU033455.D

Acq: 26 Jul 2019 15:56

Instrument :

MSVOA\_U

ClientSampleId :

C0CC5DL

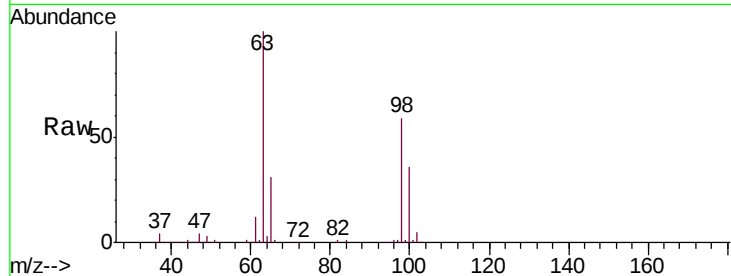
Tgt Ion: 101 Resp: 1117

Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

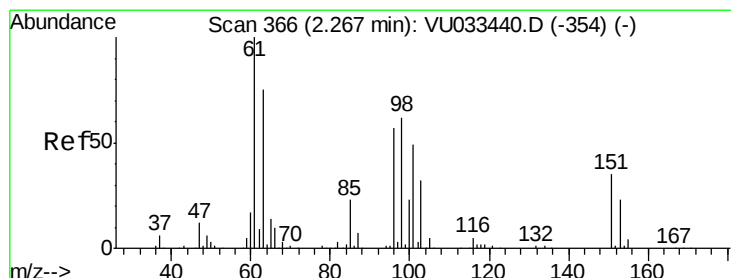
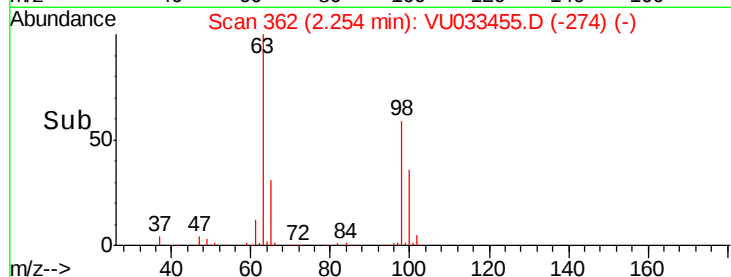
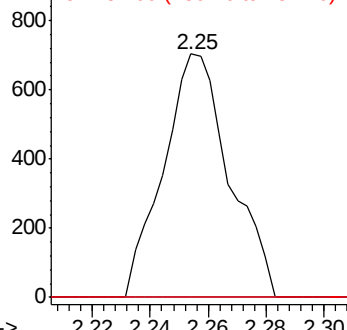
151 0.0 56.7 85.1#



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



#12

1,1-Dichloroethene

Concen: 0.710 ug/L

RT: 2.25 min Scan# 362

Delta R.T. -0.01 min

Lab File: VU033455.D

Acq: 26 Jul 2019 15:56

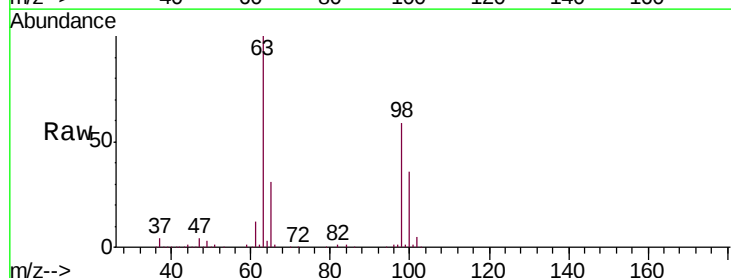
Tgt Ion: 96 Resp: 1208

Ion Ratio Lower Upper

96 100

61 1285.5 126.1 234.1#

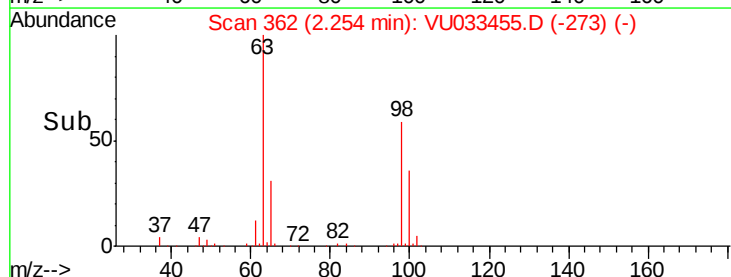
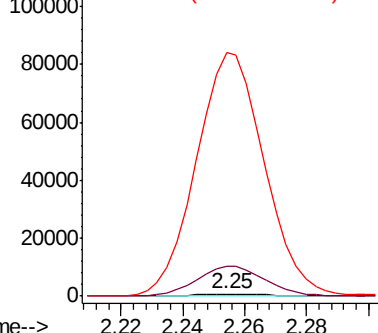
63 10483.8 96.8 179.8#

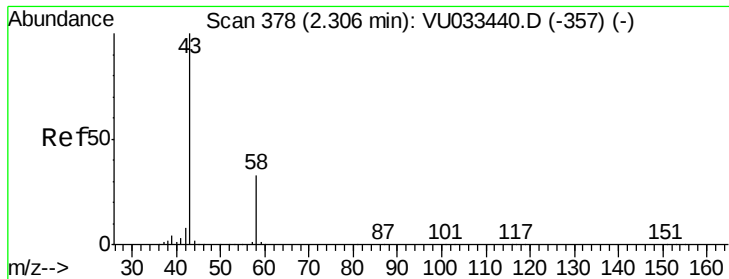


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.856 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.00 min

Lab File: VU033455.D

Acq: 26 Jul 2019 15:56

Instrument :

MSVOA\_U

ClientSampleId :

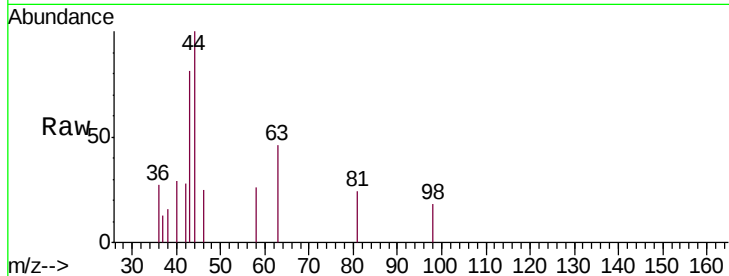
C0CC5DL

Tgt Ion: 43 Resp: 1308

Ion Ratio Lower Upper

43 100

58 30.9 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033440.D (-357) (-)

Ion 58.00 (57.70 to 58.70): VU033440.D (-357) (-)

2.30

600

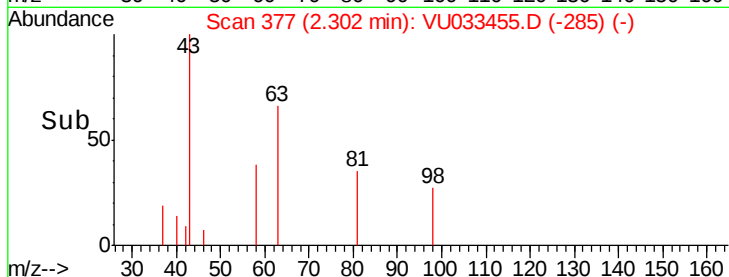
400

200

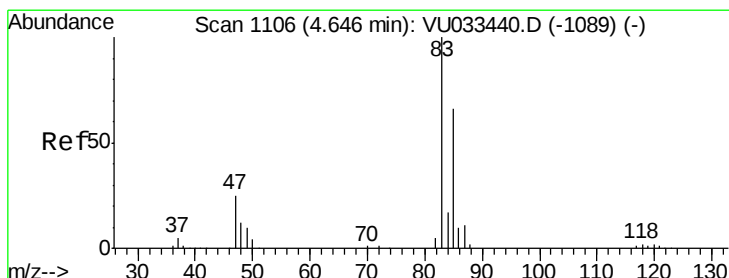
0

2.30

2.35



Time-->



#25

Chloroform

Concen: 2.919 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU033455.D

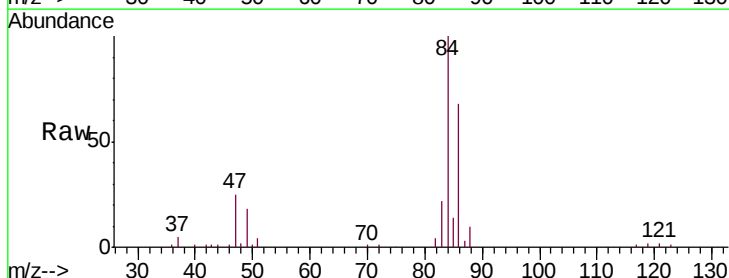
Acq: 26 Jul 2019 15:56

Tgt Ion: 83 Resp: 10500

Ion Ratio Lower Upper

83 100

85 64.4 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VU033440.D (-1089) (-)

Ion 85.00 (84.70 to 85.70): VU033440.D (-1089) (-)

4.65

5000

4000

3000

2000

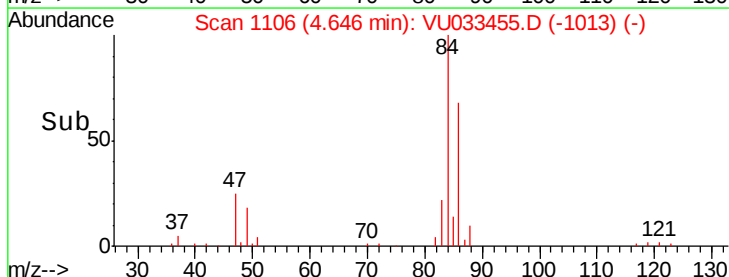
1000

0

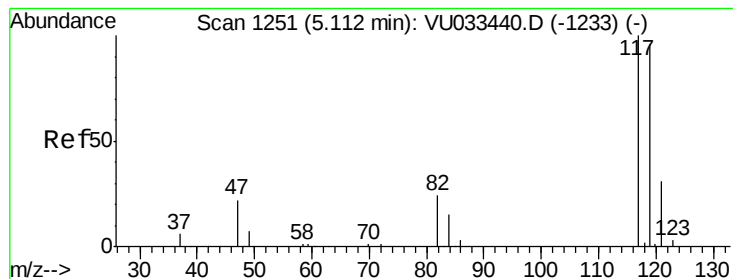
4.60

4.65

4.70



Time-->



#31

Carbon tetrachloride

Concen: 46.331 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033455.D

Acq: 26 Jul 2019 15:56

Instrument :

MSVOA\_U

ClientSampleId :

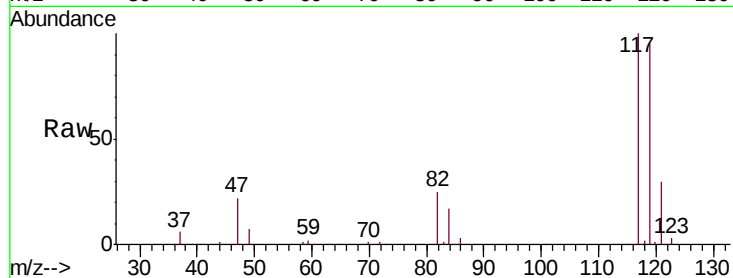
C0CC5DL

Tgt Ion: 117 Resp: 123932

Ion Ratio Lower Upper

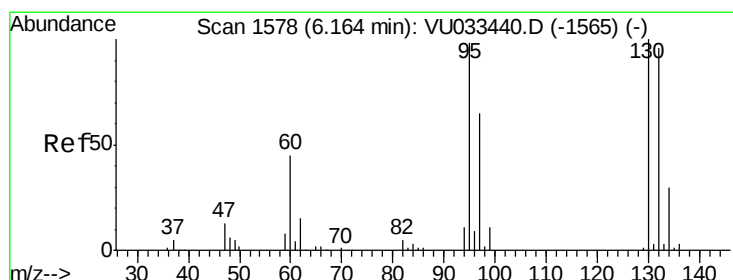
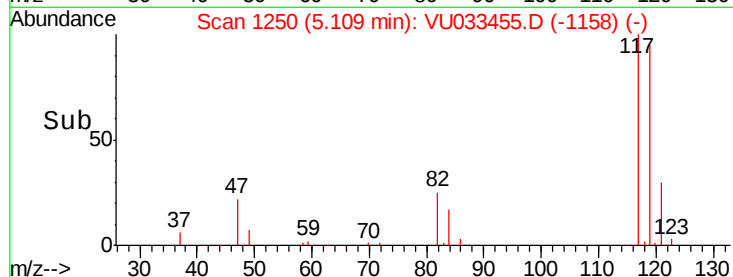
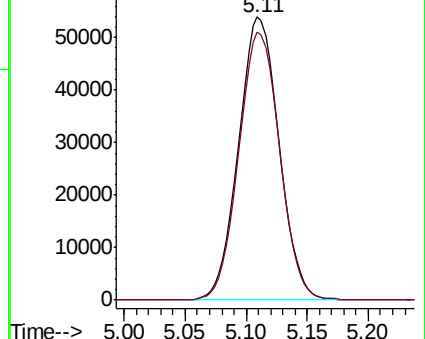
117 100

119 95.6 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Trichloroethene

Concen: 8.571 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU033455.D

Acq: 26 Jul 2019 15:56

Tgt Ion: 95 Resp: 17127

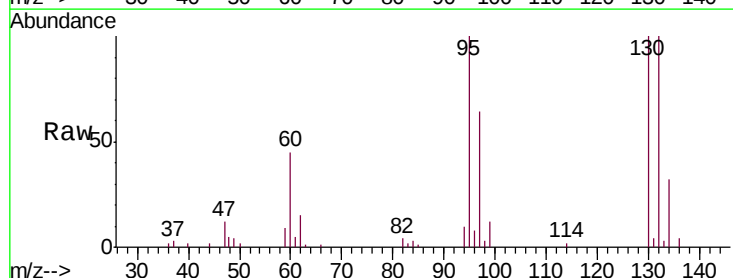
Ion Ratio Lower Upper

95 100

97 64.0 43.8 81.4

132 99.8 65.5 121.6

130 99.8 69.7 129.5

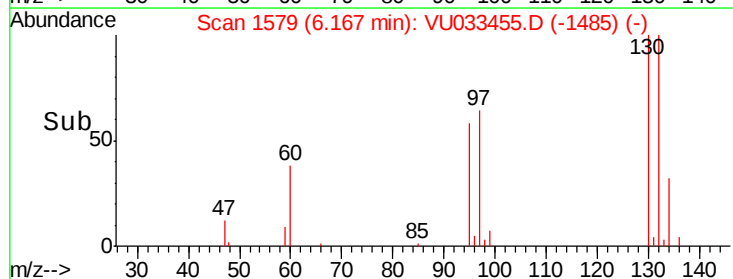
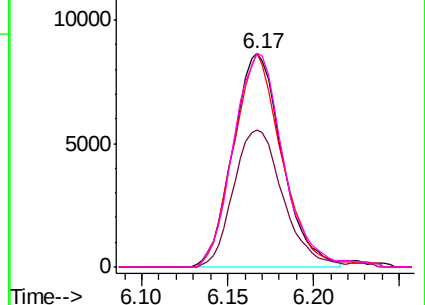


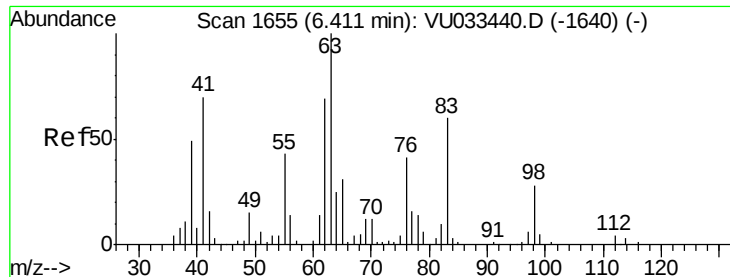
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

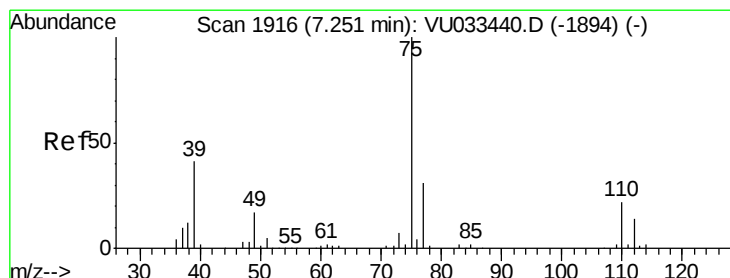
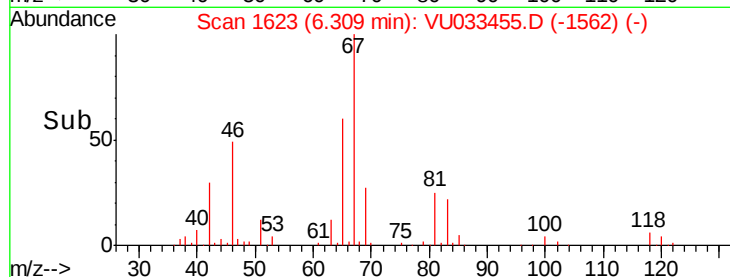
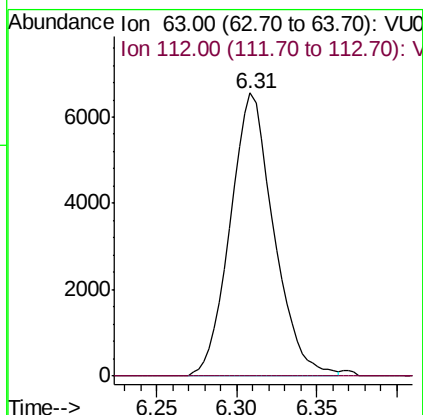
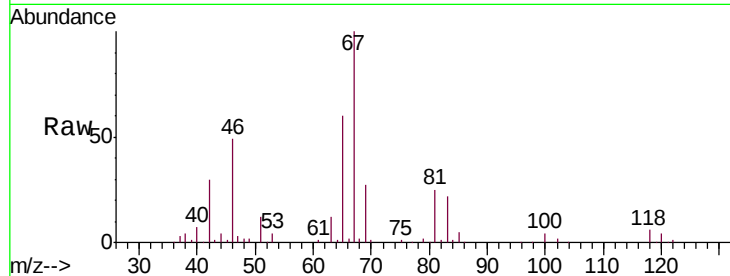




#37  
 1,2-Dichloropropane  
 Concen: 5.885 ug/L  
 RT: 6.31 min Scan# 1623  
 Delta R.T. -0.10 min  
 Lab File: VU033455.D  
 Acq: 26 Jul 2019 15:56

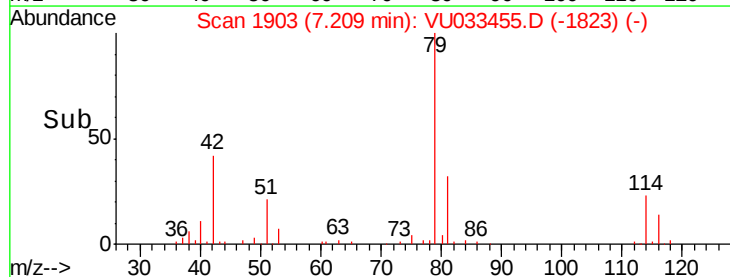
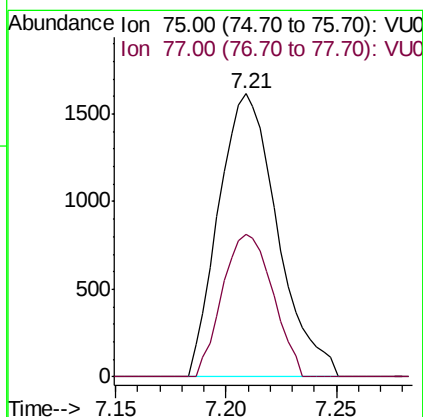
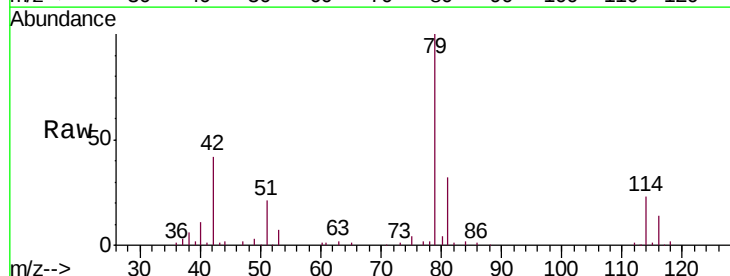
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C0CC5DL

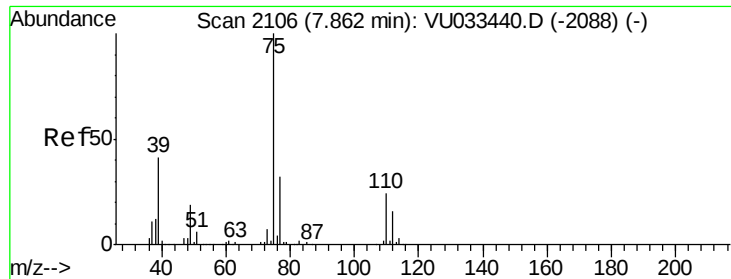
Tgt Ion: 63 Resp: 12194  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.2 4.8#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.940 ug/L  
 RT: 7.21 min Scan# 1903  
 Delta R.T. -0.04 min  
 Lab File: VU033455.D  
 Acq: 26 Jul 2019 15:56

Tgt Ion: 75 Resp: 2987  
 Ion Ratio Lower Upper  
 75 100  
 77 50.4 23.1 42.9#





#44

trans-1,3-Dichloropropene

Concen: 0.751 ug/L

RT: 7.83 min Scan# 2097

Delta R.T. -0.03 min

Lab File: VU033455.D

Acq: 26 Jul 2019 15:56

Instrument :

MSVOA\_U

ClientSampleId :

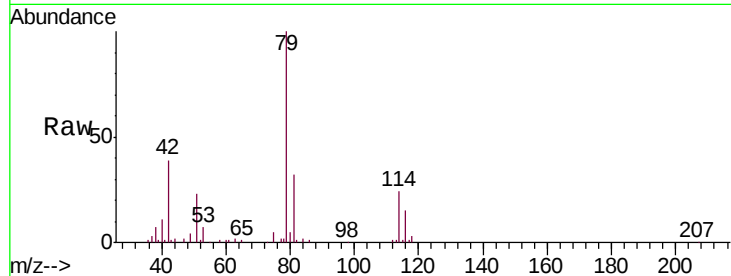
C0CC5DL

Tgt Ion: 75 Resp: 2152

Ion Ratio Lower Upper

75 100

77 40.5 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU033440.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033440.D (-2088) (-)

7.83

1500

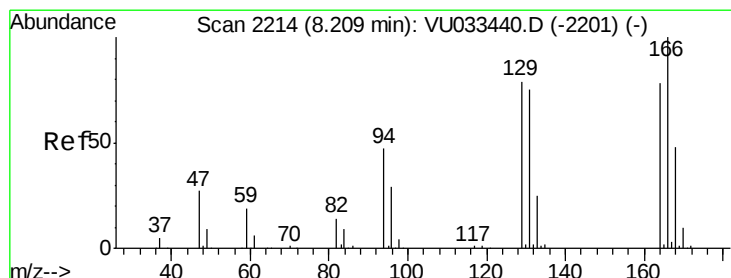
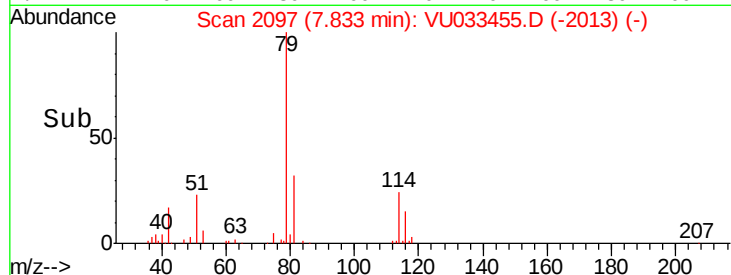
1000

500

0

7.80 7.85

Time-->



#46

Tetrachloroethene

Concen: 2.050 ug/L

RT: 8.21 min Scan# 2215

Delta R.T. 0.00 min

Lab File: VU033455.D

Acq: 26 Jul 2019 15:56

Tgt Ion: 164 Resp: 3171

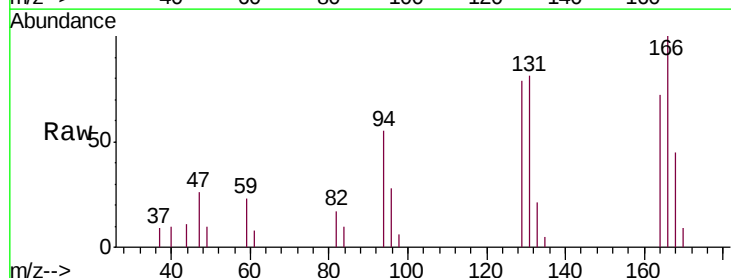
Ion Ratio Lower Upper

164 100

129 110.2 69.6 129.2

131 112.2 65.7 122.1

166 138.8 88.5 164.4



Abundance Ion 164.00 (163.70 to 164.70): VU033440.D (-2201) (-)

Ion 129.00 (128.70 to 129.70): VU033440.D (-2201) (-)

Ion 131.00 (130.70 to 131.70): VU033440.D (-2201) (-)

Ion 166.00 (165.70 to 166.70): VU033440.D (-2201) (-)

8.21

3000

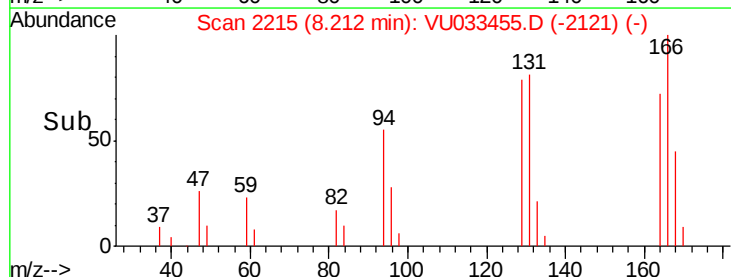
2000

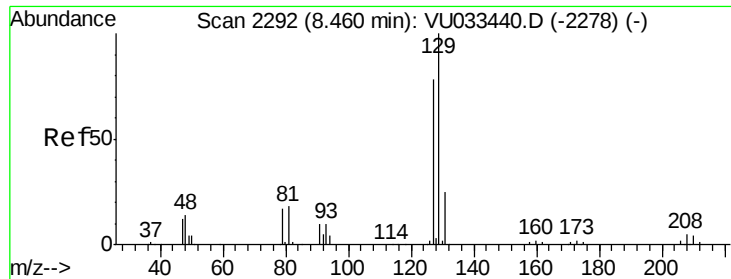
1000

0

8.20 8.25

Time-->





#49

Dibromochloromethane

Concen: 1.522 ug/L

RT: 8.21 min Scan# 2215

Delta R.T. -0.25 min

Lab File: VU033455.D

Acq: 26 Jul 2019 15:56

Instrument :

MSVOA\_U

ClientSampleId :

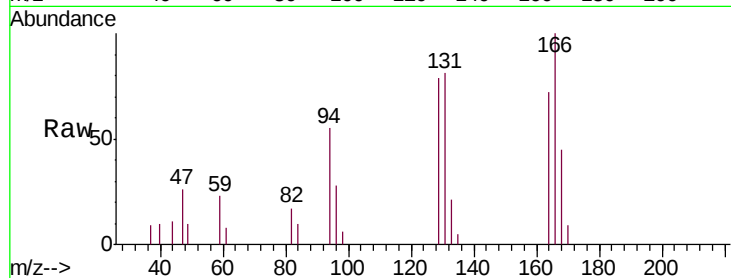
C0CC5DL

Tgt Ion:129 Resp: 3328

Ion Ratio Lower Upper

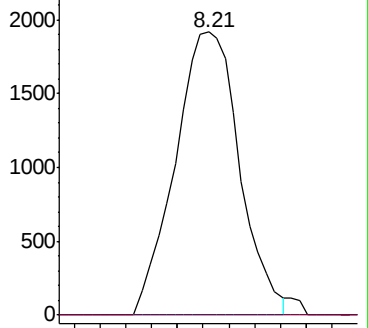
129 100

127 0.0 54.3 100.9#

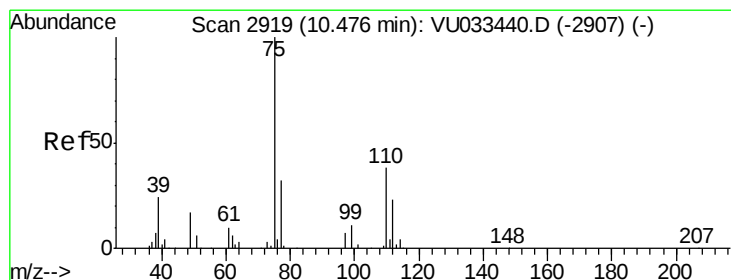
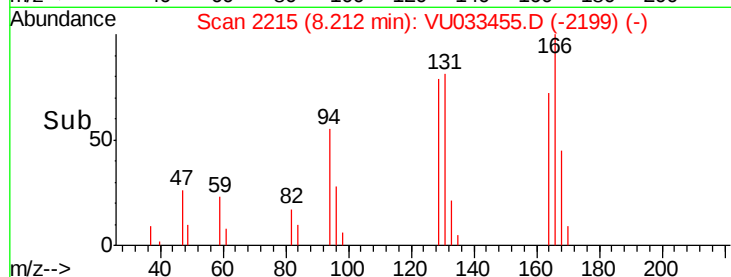


Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time-->



#59

1,2,3-Trichloropropane

Concen: 4.808 ug/L

RT: 11.47 min Scan# 3228

Delta R.T. 0.99 min

Lab File: VU033455.D

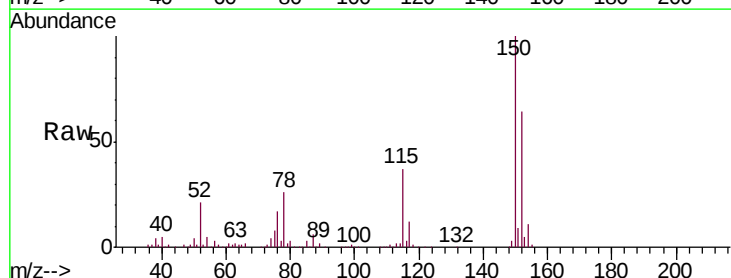
Acq: 26 Jul 2019 15:56

Tgt Ion: 75 Resp: 12971

Ion Ratio Lower Upper

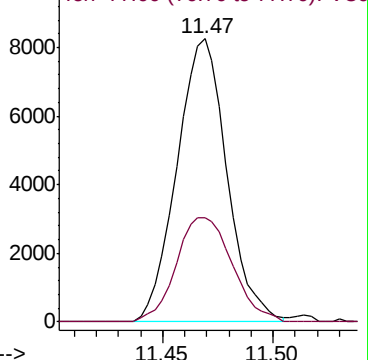
75 100

77 41.3 26.0 39.0#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



Time-->

