

Data File : VU033430.D  
Acq On : 25 Jul 2019 23:23  
Operator : JC/SP  
Sample : K3976-04  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0CB7

Quant Time: Jul 26 05:54:54 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 26 05:48:12 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 274984   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 278280   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 121441   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 126136   | 60.59    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 121.18%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 111566   | 62.74    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 125.48%  |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 156593   | 41.47    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.94%   |
| 21) 2-Butanone-d5              | 4.15    | 46    | 148451   | 112.55   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 112.55%  |
| 24) Chloroform-d               | 4.62    | 84    | 189213   | 54.24    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.48%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 132109   | 59.04    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 118.08%  |
| 32) Benzene-d6                 | 5.32    | 84    | 399008   | 58.45    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 116.90%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 128476   | 58.75    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 117.50%  |
| 41) Toluene-d8                 | 7.55    | 98    | 364634   | 56.64    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 113.28%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 56610    | 52.79    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 105.58%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 107018   | 108.55   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.55%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 188683   | 57.01    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 114.02%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 135180   | 62.42    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 124.84%# |

#### Target Compounds

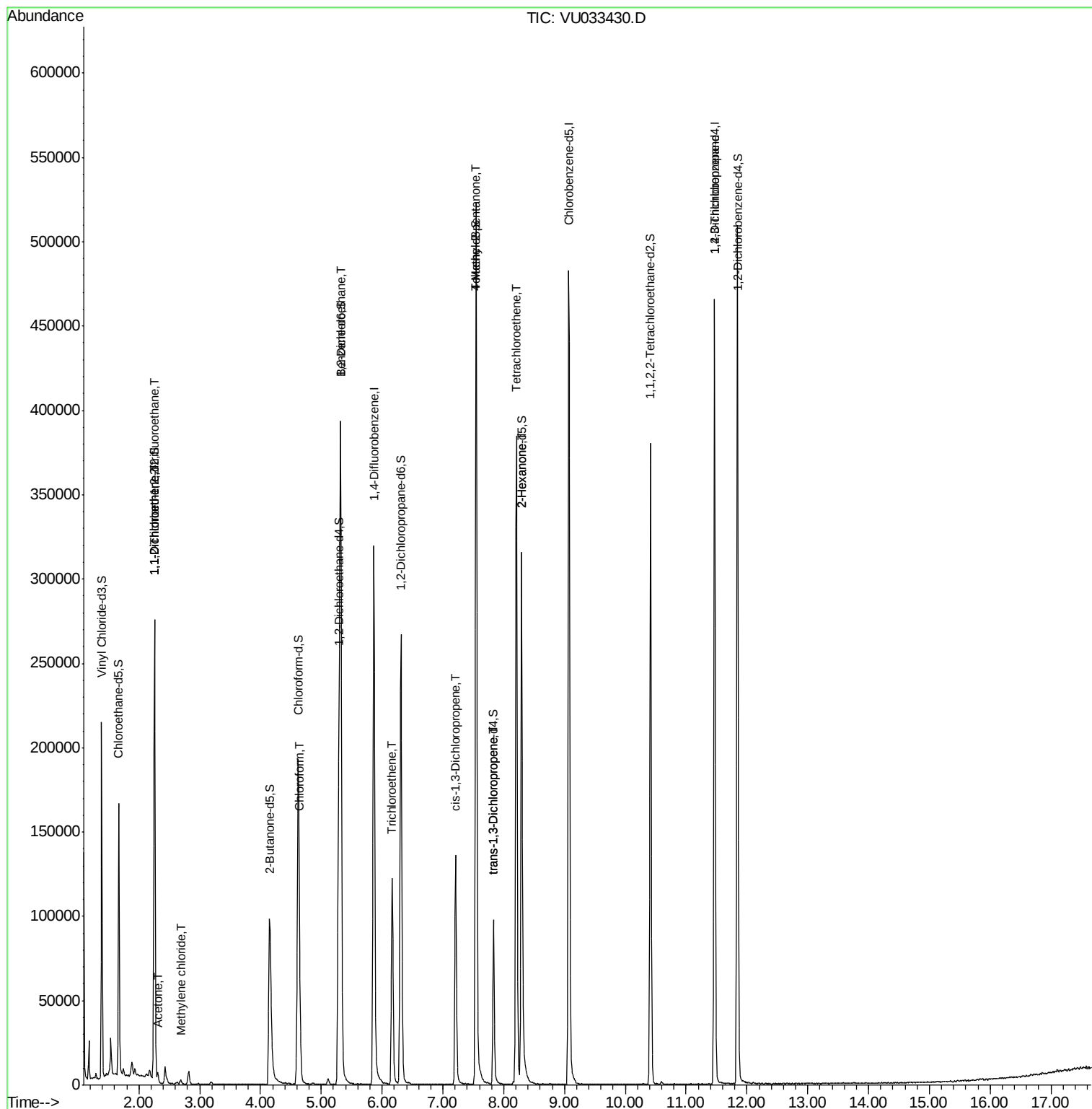
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26  | 101 | 1423  | 0.759 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.25  | 96  | 1231  | 0.671 ug/L # | 1      |
| 13) Acetone                    | 2.31  | 43  | 4005  | 2.430 ug/L   | 94     |
| 16) Methylene chloride         | 2.69  | 84  | 1173  | 0.560 ug/L   | 78     |
| 25) Chloroform                 | 4.65  | 83  | 22548 | 5.814 ug/L   | 100    |
| 27) 1,2-Dichloroethane         | 5.32  | 62  | 2296  | 0.765 ug/L # | 76     |
| 34) Trichloroethene            | 6.16  | 95  | 43339 | 20.420 ug/L  | 96     |
| 39) cis-1,3-Dichloropropene    | 7.21  | 75  | 3466  | 1.027 ug/L # | 62     |
| 40) 4-Methyl-2-pentanone       | 7.55  | 43  | 1509  | 0.511 ug/L # | 1      |
| 44) trans-1,3-Dichloropropene  | 7.83  | 75  | 2685  | 0.882 ug/L   | 93     |
| 46) Tetrachloroethene          | 8.21  | 164 | 85234 | 51.877 ug/L  | 98     |
| 48) 2-Hexanone                 | 8.30  | 43  | 13830 | 5.750 ug/L # | 69     |
| 59) 1,2,3-Trichloropropane     | 11.47 | 75  | 14118 | 4.927 ug/L # | 85     |

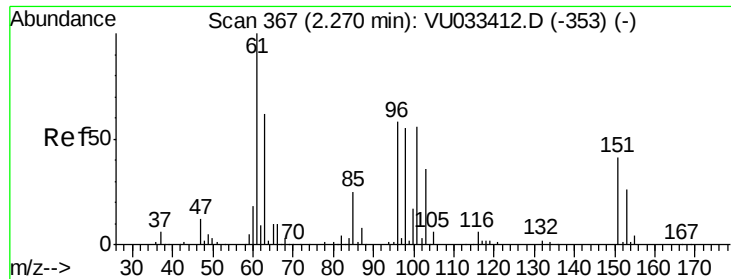
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampled :  
C0CB7

Quant Time: Jul 26 05:54:54 2019  
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Quant Title : VOC Analysis  
QLast Update : Fri Jul 26 05:48:12 2019  
Response via : Initial Calibration





#10

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

Concen: 0.759 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU033430.D

Acq: 25 Jul 2019 23:23

Instrument :

MSVOA\_U

ClientSampleId :

C0CB7

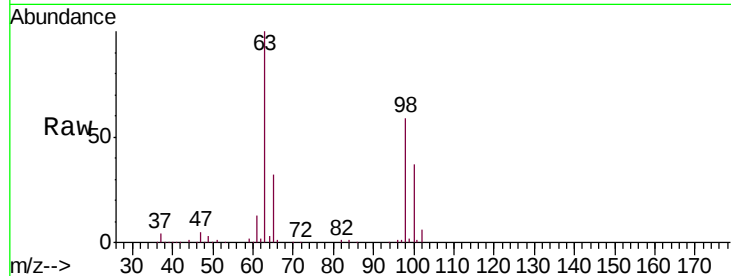
Tgt Ion:101 Resp: 1423

Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

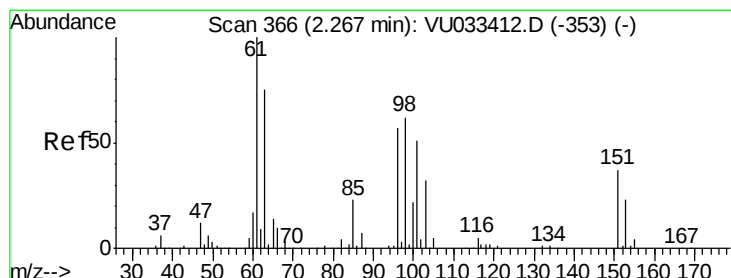
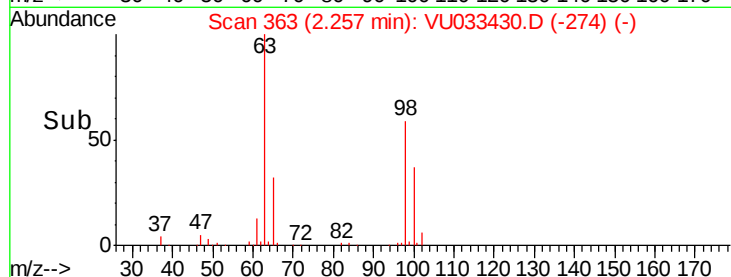
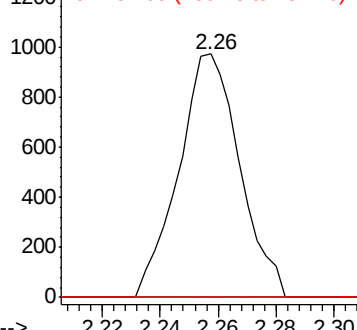
151 0.0 56.7 85.1#



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: 0.671 ug/L

RT: 2.25 min Scan# 362

Delta R.T. -0.01 min

Lab File: VU033430.D

Acq: 25 Jul 2019 23:23

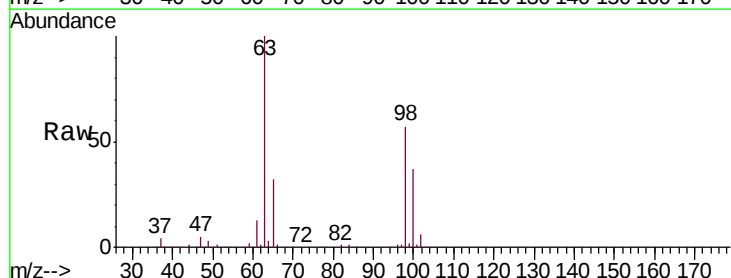
Tgt Ion: 96 Resp: 1231

Ion Ratio Lower Upper

96 100

61 1698.3 126.1 234.1#

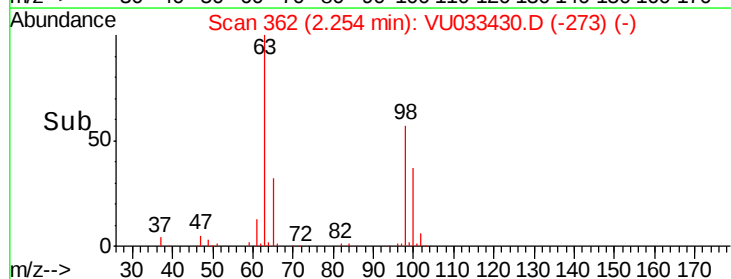
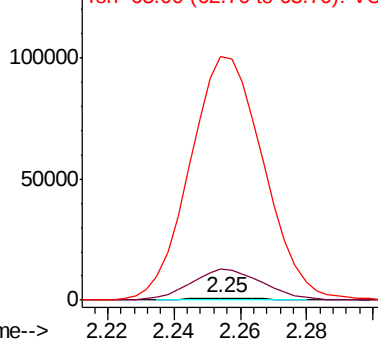
63 13410.1 96.8 179.8#

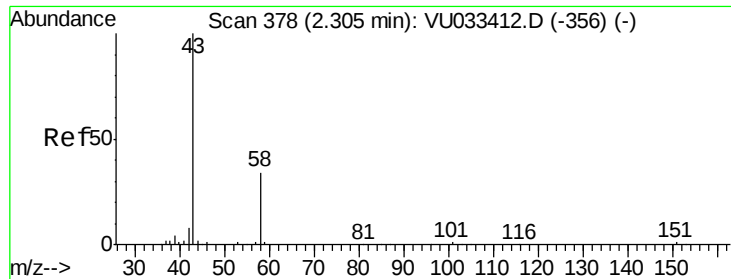


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.430 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU033430.D

Acq: 25 Jul 2019 23:23

Instrument :

MSVOA\_U

ClientSampled :

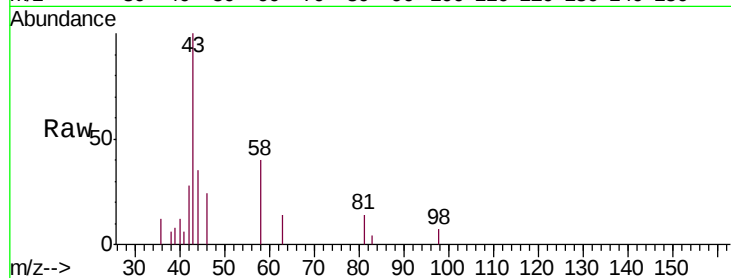
C0CB7

Tgt Ion: 43 Resp: 4005

Ion Ratio Lower Upper

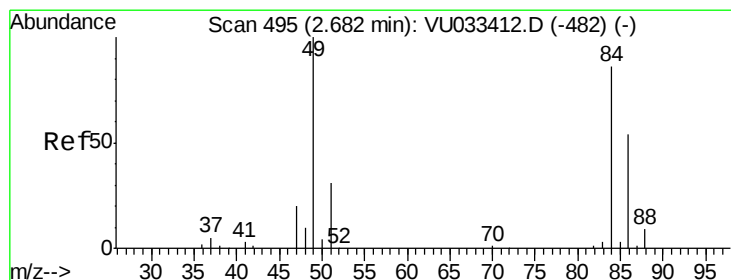
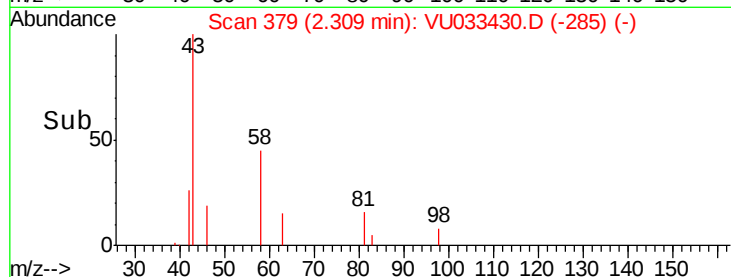
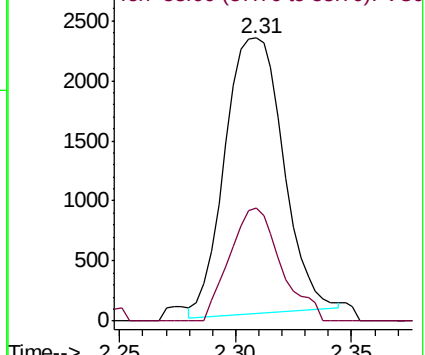
43 100

58 36.2 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033412.D (-356) (-)

Ion 58.00 (57.70 to 58.70): VU033412.D (-356) (-)



#16

Methylene chloride

Concen: 0.560 ug/L

RT: 2.69 min Scan# 497

Delta R.T. 0.01 min

Lab File: VU033430.D

Acq: 25 Jul 2019 23:23

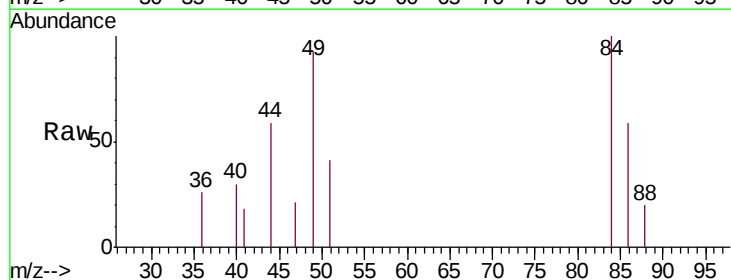
Tgt Ion: 84 Resp: 1173

Ion Ratio Lower Upper

84 100

86 58.6 45.7 84.9

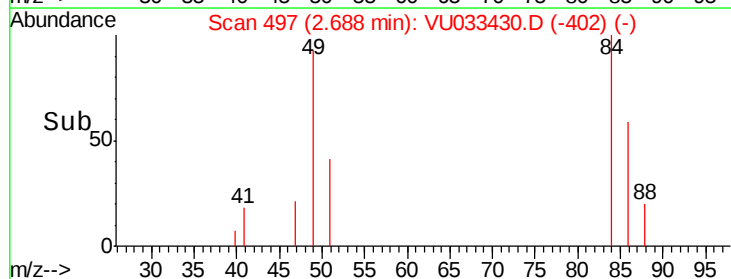
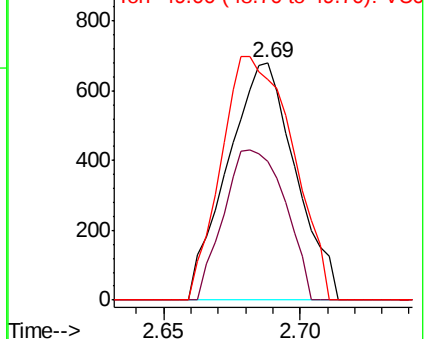
49 93.0 87.7 162.9

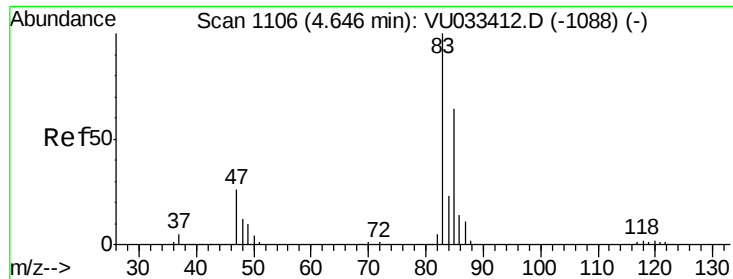


Abundance Ion 84.00 (83.70 to 84.70): VU033412.D (-482) (-)

Ion 86.00 (85.70 to 86.70): VU033412.D (-482) (-)

Ion 49.00 (48.70 to 49.70): VU033412.D (-482) (-)

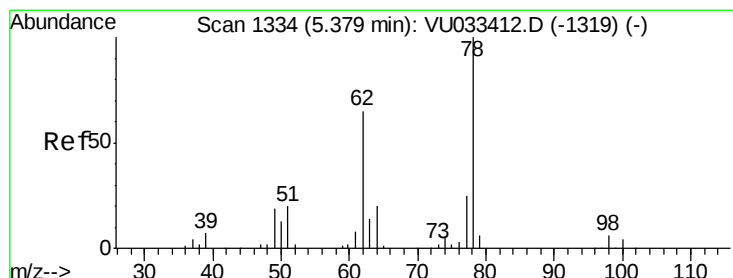
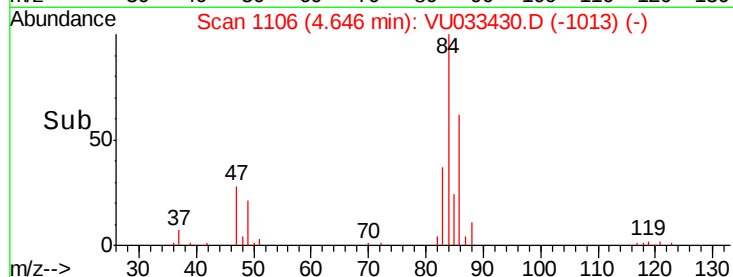
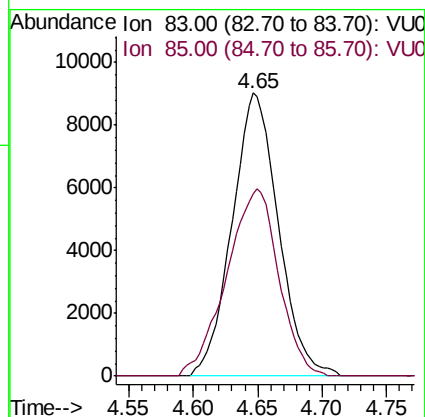
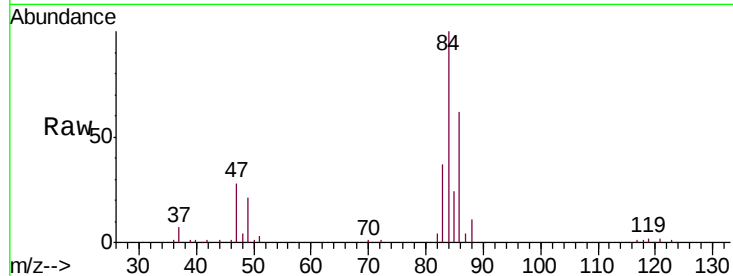




#25  
Chloroform  
Concen: 5.814 ug/L  
RT: 4.65 min Scan# 1106  
Delta R.T. 0.00 min  
Lab File: VU033430.D  
Acq: 25 Jul 2019 23:23

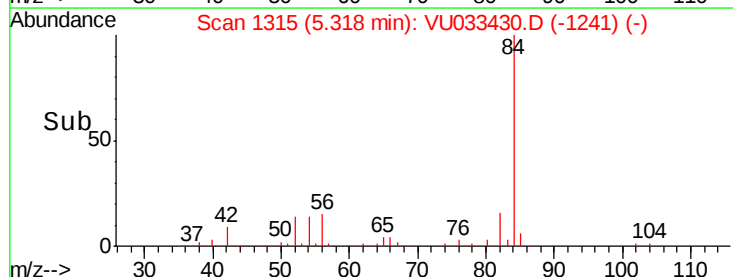
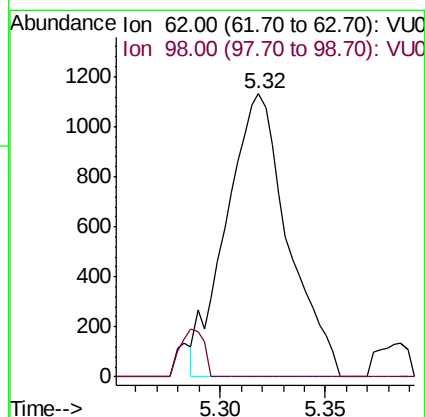
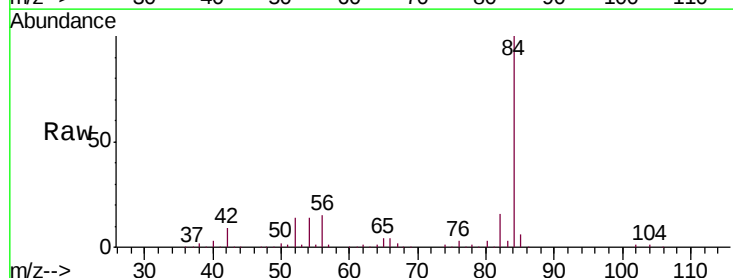
Instrument :  
MSVOA\_U  
ClientSampled :  
C0CB7

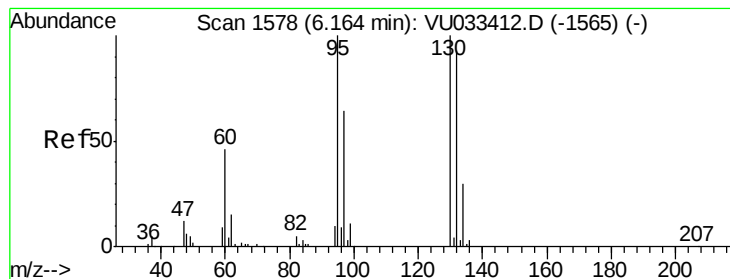
Tgt Ion: 83 Resp: 22548  
Ion Ratio Lower Upper  
83 100  
85 64.5 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 0.765 ug/L  
RT: 5.32 min Scan# 1315  
Delta R.T. -0.06 min  
Lab File: VU033430.D  
Acq: 25 Jul 2019 23:23

Tgt Ion: 62 Resp: 2296  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.0 10.6#





#34

Trichloroethene

Concen: 20.420 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033430.D

Acq: 25 Jul 2019 23:23

Instrument :

MSVOA\_U

ClientSampleId :

C0CB7

Tgt Ion: 95 Resp: 43339

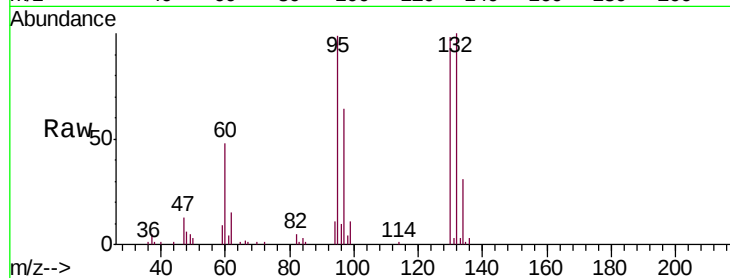
Ion Ratio Lower Upper

95 100

97 65.0 43.8 81.4

132 100.7 65.5 121.6

130 99.0 69.7 129.5

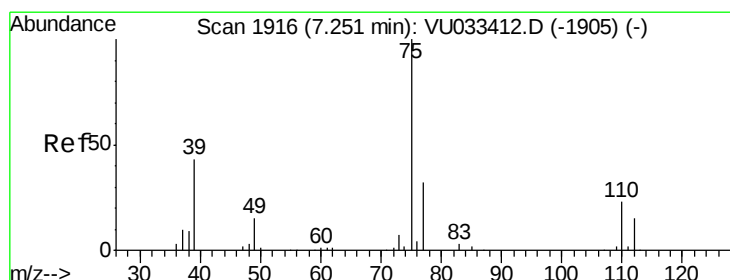
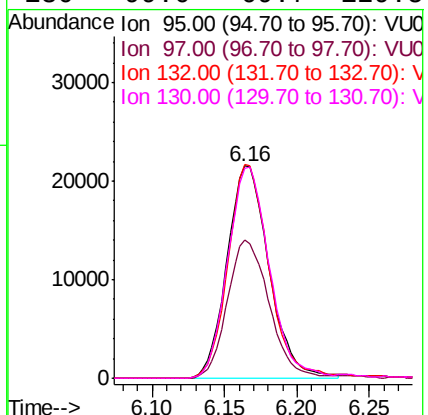
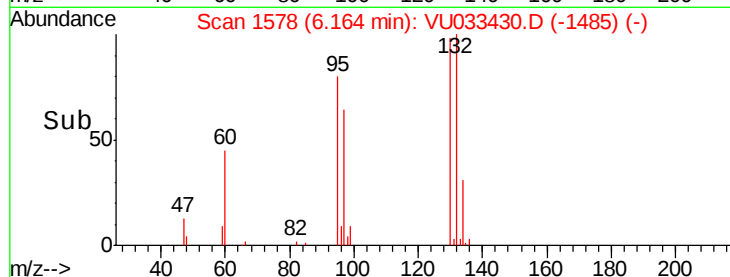


Abundance Ion 95.00 (94.70 to 95.70): VU033412.D (-1565) (-)

Ion 97.00 (96.70 to 97.70): VU033412.D (-1565) (-)

Ion 132.00 (131.70 to 132.70): VU033412.D (-1565) (-)

Ion 130.00 (129.70 to 130.70): VU033412.D (-1565) (-)



#39

cis-1,3-Dichloropropene

Concen: 1.027 ug/L

RT: 7.21 min Scan# 1903

Delta R.T. -0.04 min

Lab File: VU033430.D

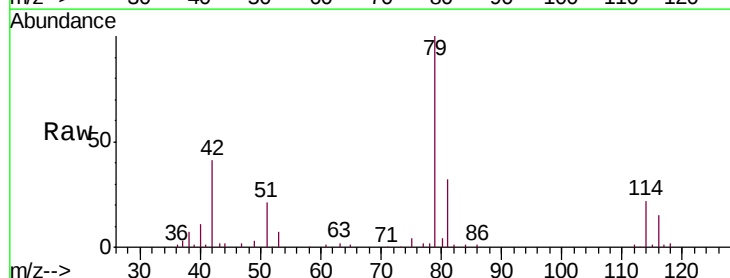
Acq: 25 Jul 2019 23:23

Tgt Ion: 75 Resp: 3466

Ion Ratio Lower Upper

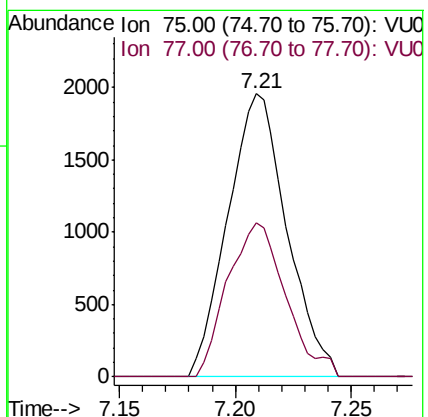
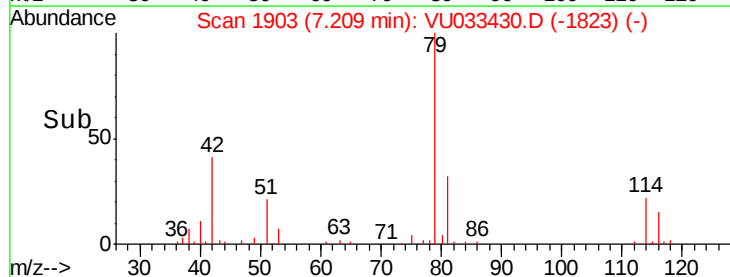
75 100

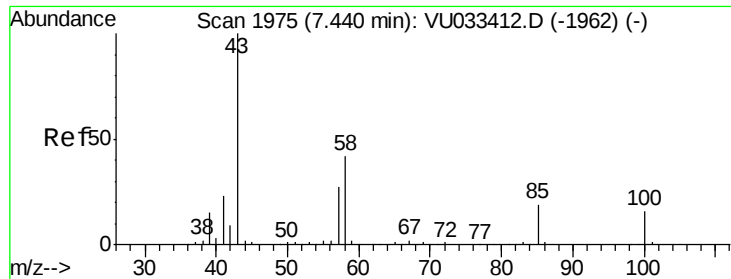
77 54.3 23.1 42.9#



Abundance Ion 75.00 (74.70 to 75.70): VU033412.D (-1905) (-)

Ion 77.00 (76.70 to 77.70): VU033412.D (-1905) (-)

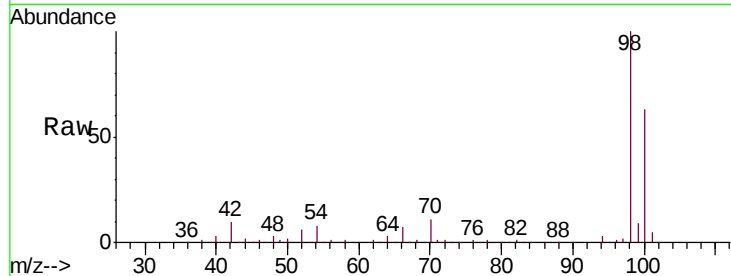




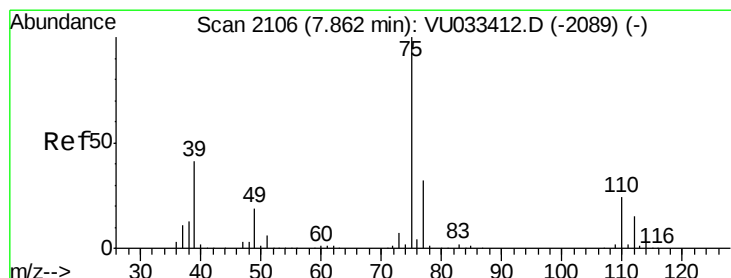
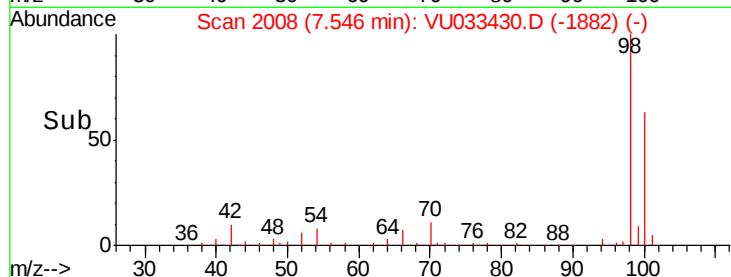
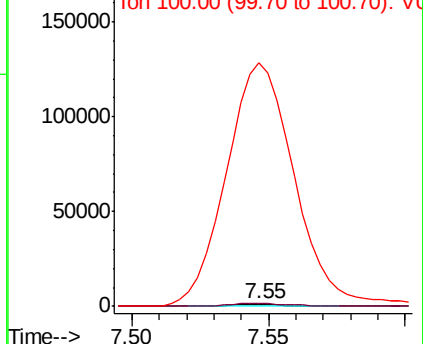
#40  
 4-Methyl-2-pentanone  
 Concen: 0.511 ug/L  
 RT: 7.55 min Scan# 2008  
 Delta R.T. 0.11 min  
 Lab File: VU033430.D  
 Acq: 25 Jul 2019 23:23

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0CB7

Tgt Ion: 43 Resp: 1509  
 Ion Ratio Lower Upper  
 43 100  
 58 188.4 33.3 49.9#  
 100 15021.2 12.1 18.1#

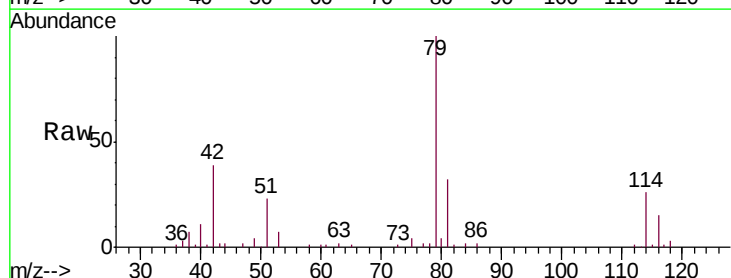


Abundance Ion 43.00 (42.70 to 43.70): VU0  
 Ion 58.00 (57.70 to 58.70): VU0  
 Ion 100.00 (99.70 to 100.70): VU0

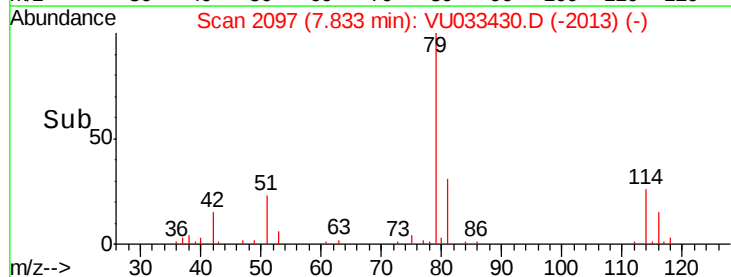
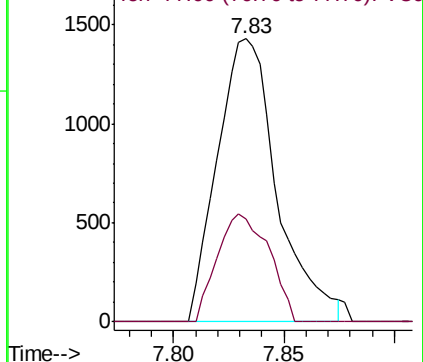


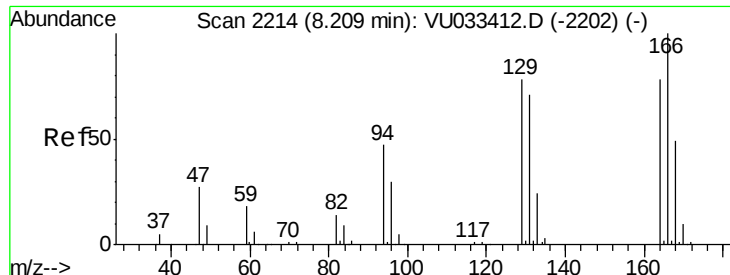
#44  
 trans-1,3-Dichloropropene  
 Concen: 0.882 ug/L  
 RT: 7.83 min Scan# 2097  
 Delta R.T. -0.03 min  
 Lab File: VU033430.D  
 Acq: 25 Jul 2019 23:23

Tgt Ion: 75 Resp: 2685  
 Ion Ratio Lower Upper  
 75 100  
 77 36.1 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU0  
 Ion 77.00 (76.70 to 77.70): VU0

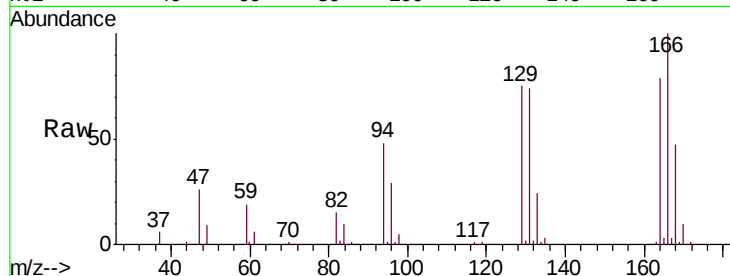




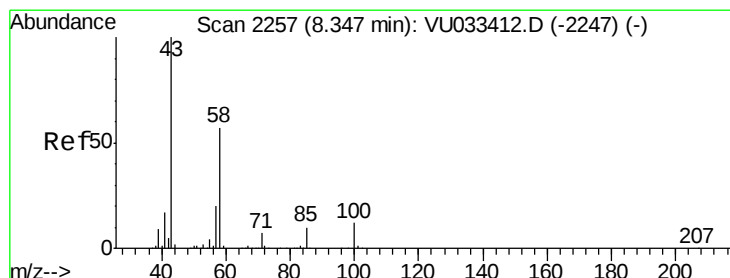
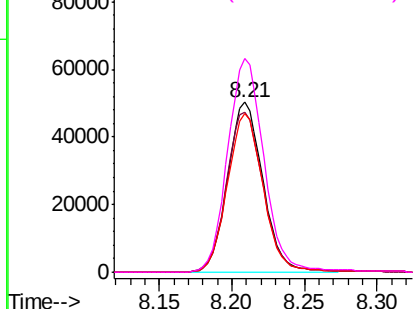
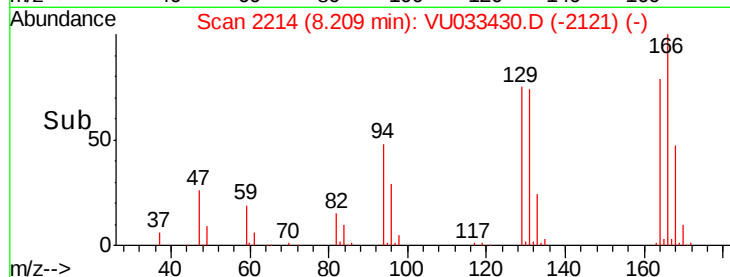
#46  
Tetrachloroethene  
Concen: 51.877 ug/L  
RT: 8.21 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VU033430.D  
Acq: 25 Jul 2019 23:23

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0CB7

Tgt Ion:164 Resp: 85234  
Ion Ratio Lower Upper  
164 100  
129 94.4 69.6 129.2  
131 93.6 65.7 122.1  
166 125.9 88.5 164.4

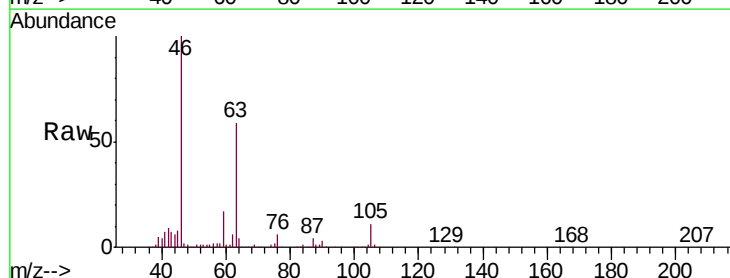


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

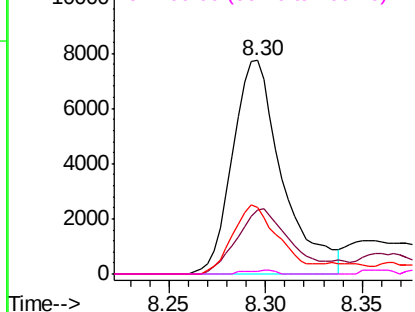
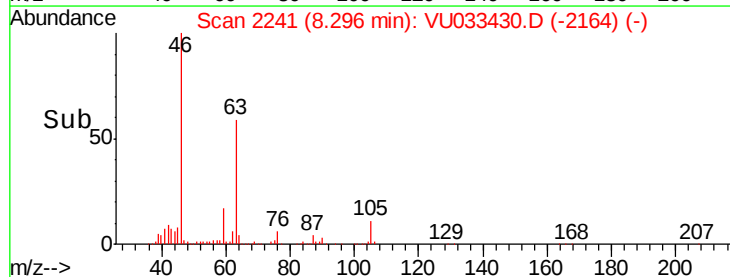


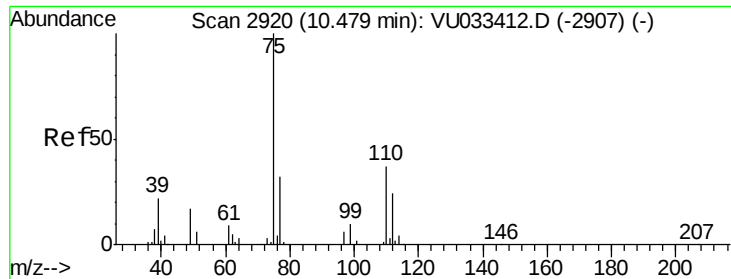
#48  
2-Hexanone  
Concen: 5.750 ug/L  
RT: 8.30 min Scan# 2241  
Delta R.T. -0.05 min  
Lab File: VU033430.D  
Acq: 25 Jul 2019 23:23

Tgt Ion: 43 Resp: 13830  
Ion Ratio Lower Upper  
43 100  
58 32.4 46.1 69.1#  
57 30.5 15.8 23.8#  
100 0.5 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0  
Ion 100.00 (99.70 to 100.70): VU0





#59

1,2,3-Trichloropropane

Concen: 4.927 ug/L

RT: 11.47 min Scan# 3228

Delta R.T. 0.99 min

Lab File: VU033430.D

Acq: 25 Jul 2019 23:23

Instrument :

MSVOA\_U

ClientSampleId :

C0CB7

Tgt Ion: 75 Resp: 14118

Ion Ratio Lower Upper

75 100

77 41.2 26.0 39.0#

