

Data File : VU033435.D  
Acq On : 26 Jul 2019 01:18  
Operator : JC/SP  
Sample : K3976-11  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0CA9

Quant Time: Jul 26 05:55:42 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  | 283309   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 287024   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 123958   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 122546   | 57.14    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 114.28%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 108074   | 58.99    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 117.98%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 156374   | 40.20    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.40%   |
| 21) 2-Butanone-d5              | 4.15    | 46    | 150635   | 110.85   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 110.85%  |
| 24) Chloroform-d               | 4.62    | 84    | 189599   | 52.75    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.50%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 132291   | 57.39    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 114.78%  |
| 32) Benzene-d6                 | 5.32    | 84    | 401360   | 57.00    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 114.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 126824   | 56.23    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 112.46%  |
| 41) Toluene-d8                 | 7.55    | 98    | 363179   | 54.70    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.40%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 56822    | 51.38    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.76%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 110054   | 108.23   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.23%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 189621   | 55.54    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 111.08%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 133995   | 60.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 121.22%# |

#### Target Compounds

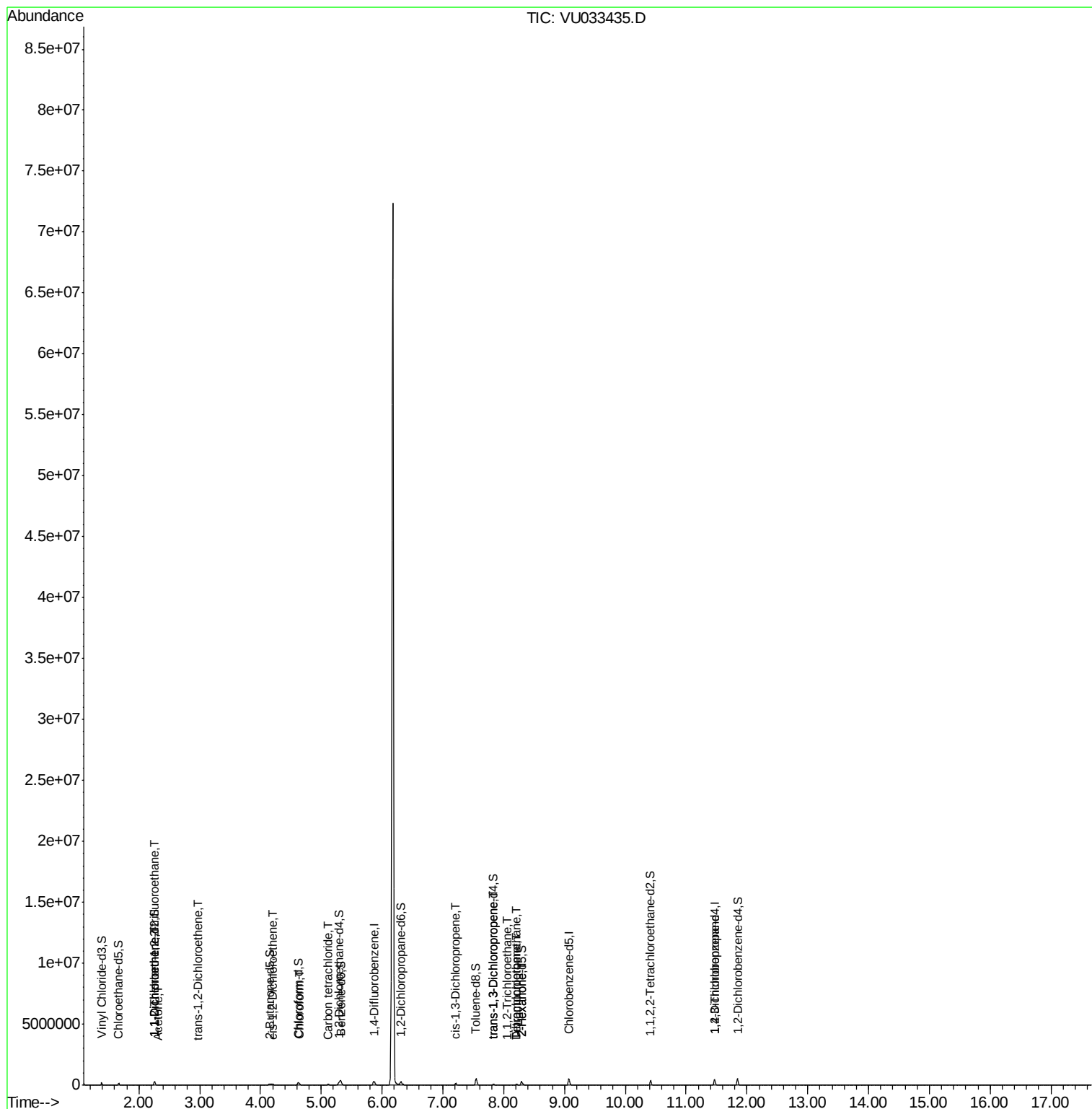
|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26  | 101 | 1408  | 0.728 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 5070  | 2.681 ug/L # | 1      |
| 13) Acetone                    | 2.31  | 43  | 2869  | 1.690 ug/L   | 92     |
| 17) trans-1,2-Dichloroethene   | 2.96  | 96  | 5746  | 2.940 ug/L   | 99     |
| 20) cis-1,2-Dichloroethene     | 4.20  | 96  | 34874 | 15.820 ug/L  | 99     |
| 25) Chloroform                 | 4.65  | 83  | 18417 | 4.609 ug/L   | 94     |
| 31) Carbon tetrachloride       | 5.11  | 117 | 36866 | 12.580 ug/L  | 98     |
| 39) cis-1,3-Dichloropropene    | 7.21  | 75  | 3578  | 1.028 ug/L # | 47     |
| 44) trans-1,3-Dichloropropene  | 7.83  | 75  | 2513  | 0.801 ug/L # | 80     |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97  | 11028 | 5.137 ug/L   | 96     |
| 46) Tetrachloroethene          | 8.21  | 164 | 13418 | 7.918 ug/L   | 96     |
| 48) 2-Hexanone                 | 8.30  | 43  | 13137 | 5.295 ug/L # | 72     |
| 49) Dibromochloromethane       | 8.21  | 129 | 13415 | 5.602 ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.47 | 75  | 14833 | 5.019 ug/L   | 93     |

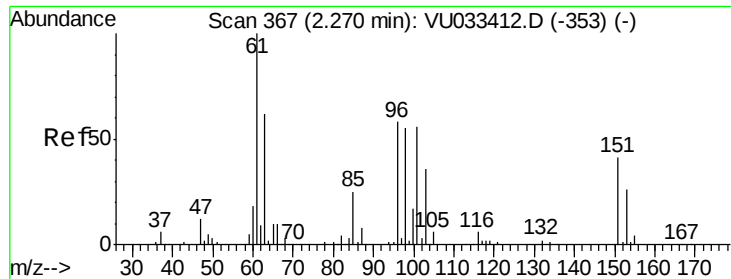
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 26 05:55:42 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





#10

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

Concen: 0.728 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

Instrument :

MSVOA\_U

ClientSampleId :

C0CA9

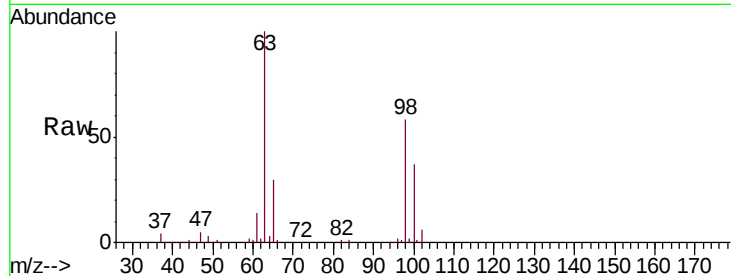
Tgt Ion:101 Resp: 1408

Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

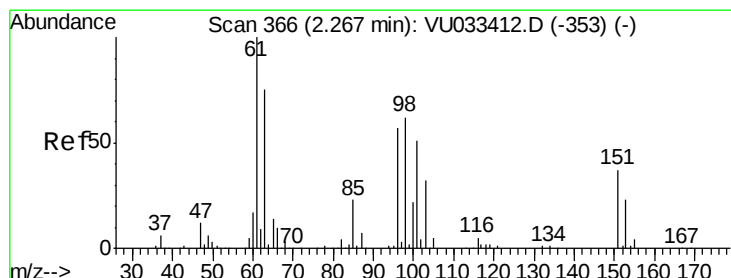
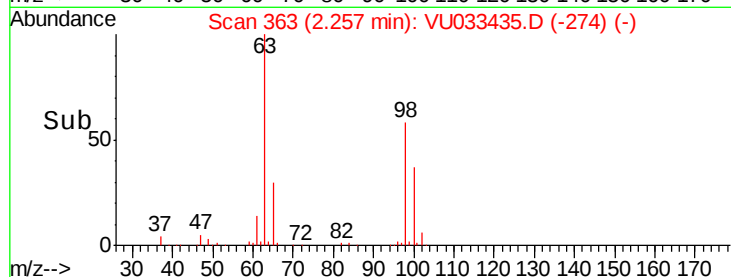
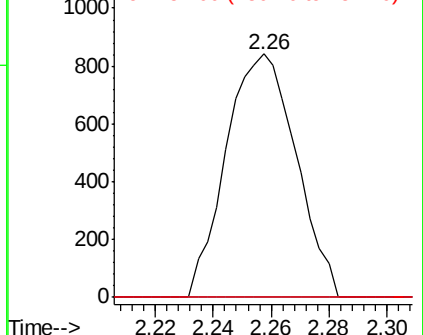
151 0.0 56.7 85.1#



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: 2.681 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

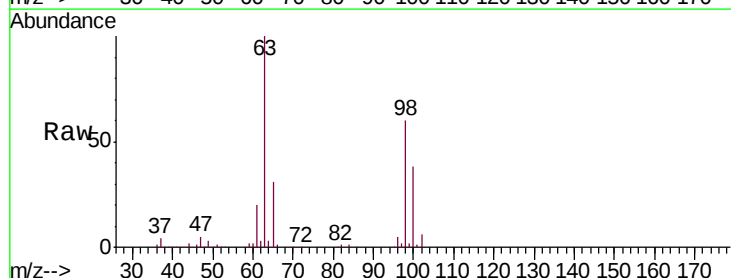
Tgt Ion: 96 Resp: 5070

Ion Ratio Lower Upper

96 100

61 381.7 126.1 234.1#

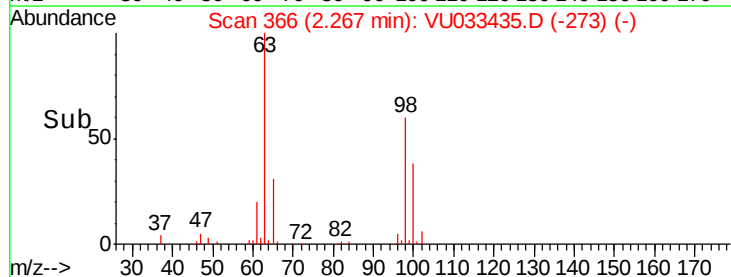
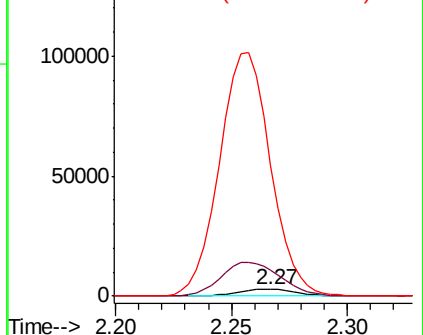
63 1939.0 96.8 179.8#

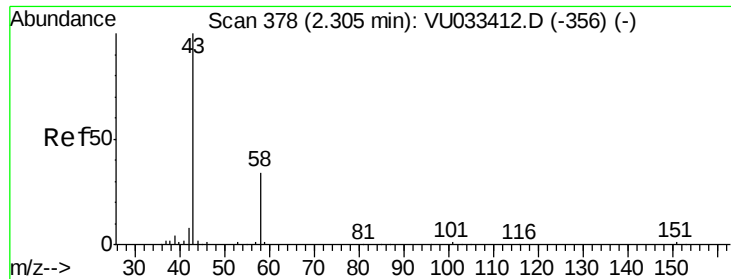


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.690 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

Instrument :

MSVOA\_U

ClientSampleId :

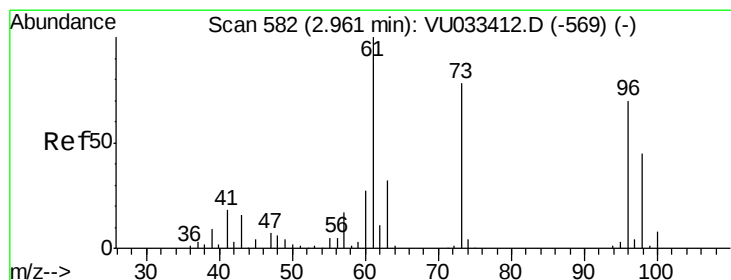
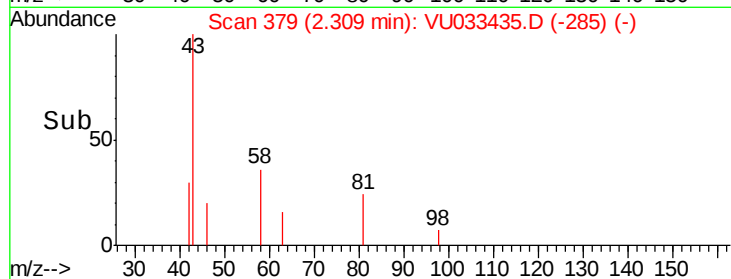
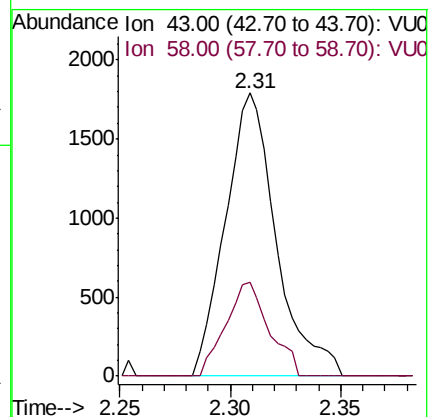
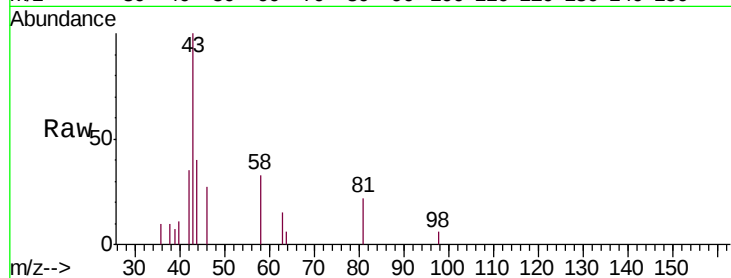
C0CA9

Tgt Ion: 43 Resp: 2869

Ion Ratio Lower Upper

43 100

58 28.4 0.0 65.4



#17

trans-1,2-Dichloroethene

Concen: 2.940 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

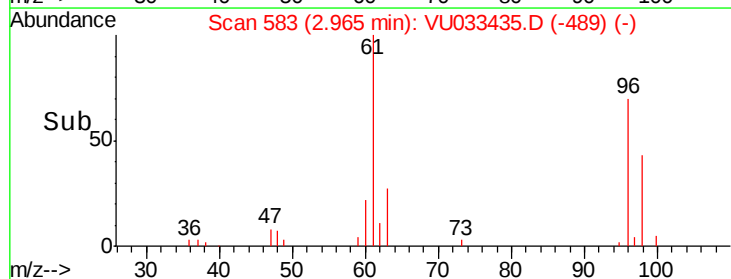
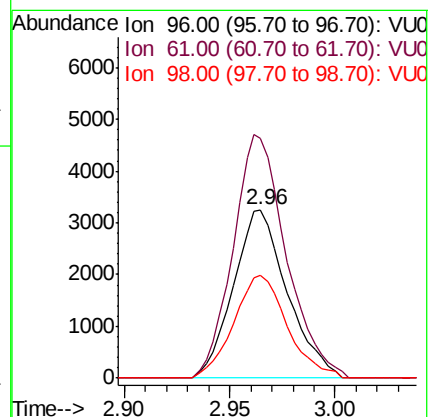
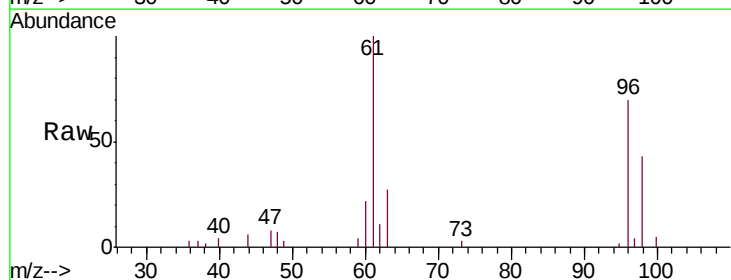
Tgt Ion: 96 Resp: 5746

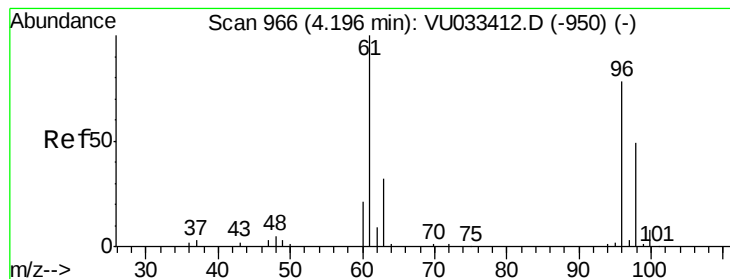
Ion Ratio Lower Upper

96 100

61 142.6 100.2 186.2

98 61.5 44.2 82.0





#20

cis-1,2-Dichloroethene

Concen: 15.820 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

Instrument :

MSVOA\_U

ClientSampleId :

C0CA9

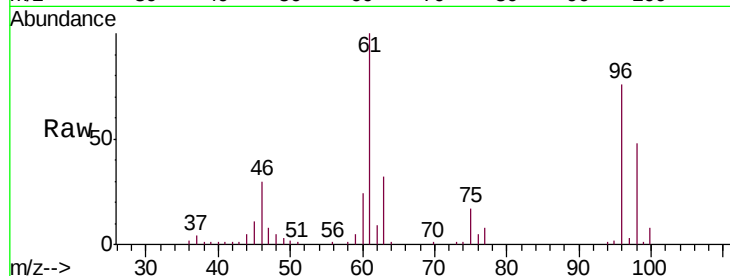
Tgt Ion: 96 Resp: 34874

Ion Ratio Lower Upper

96 100

61 131.8 91.1 169.1

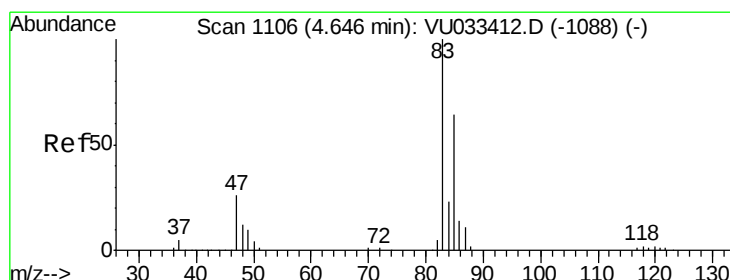
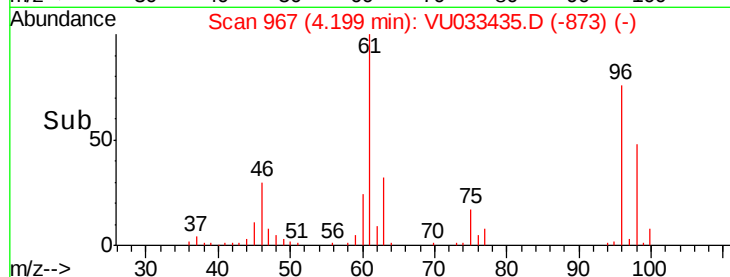
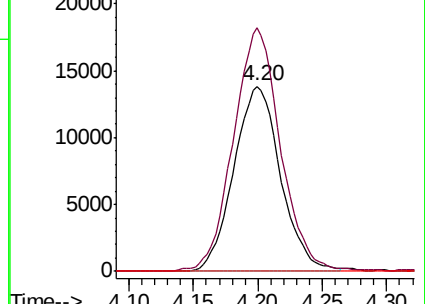
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033412.D (-950) (-)

Ion 61.00 (60.70 to 61.70): VU033412.D (-950) (-)

Ion 68.00 (67.70 to 68.70): VU033412.D (-950) (-)



#25

Chloroform

Concen: 4.609 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VU033435.D

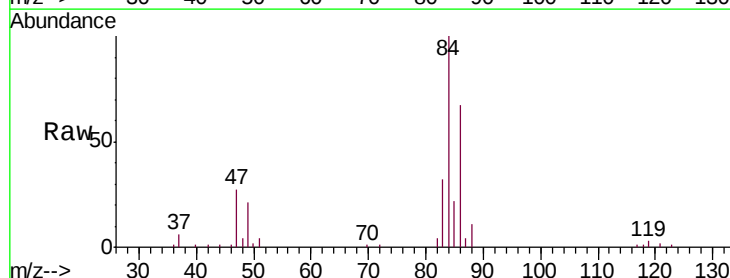
Acq: 26 Jul 2019 01:18

Tgt Ion: 83 Resp: 18417

Ion Ratio Lower Upper

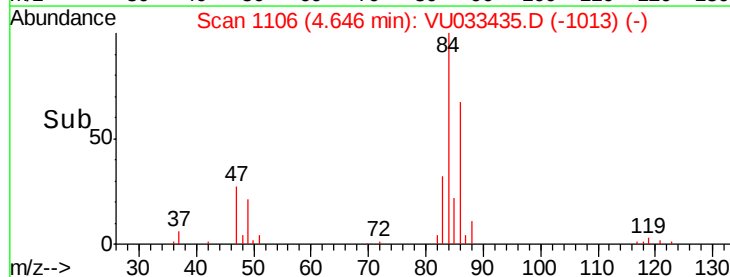
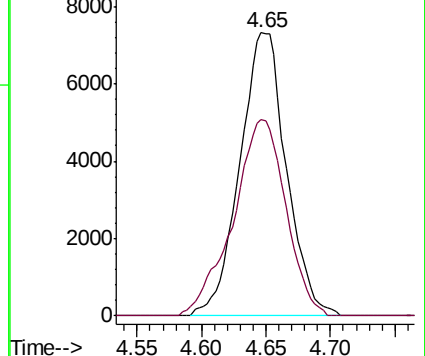
83 100

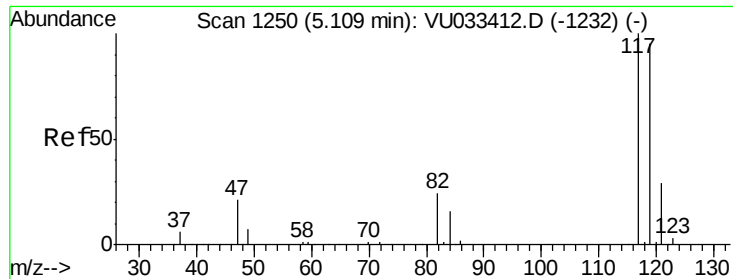
85 69.3 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VU033412.D (-1088) (-)

Ion 85.00 (84.70 to 85.70): VU033412.D (-1088) (-)





#31

Carbon tetrachloride

Concen: 12.580 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

Instrument :

MSVOA\_U

ClientSampleId :

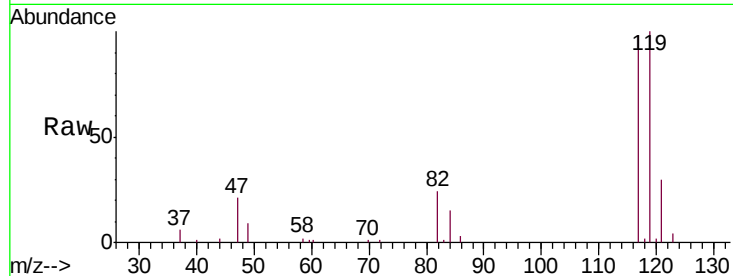
C0CA9

Tgt Ion:117 Resp: 36866

Ion Ratio Lower Upper

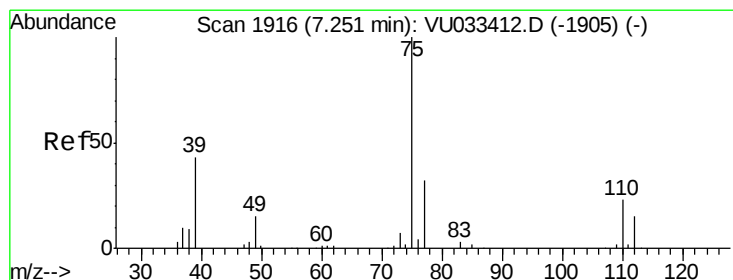
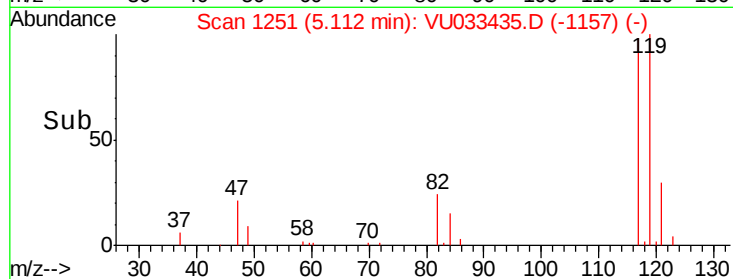
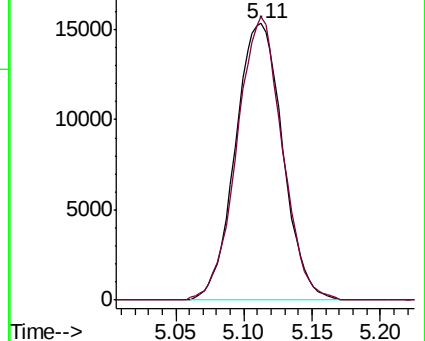
117 100

119 98.4 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#39

cis-1,3-Dichloropropene

Concen: 1.028 ug/L

RT: 7.21 min Scan# 1903

Delta R.T. -0.04 min

Lab File: VU033435.D

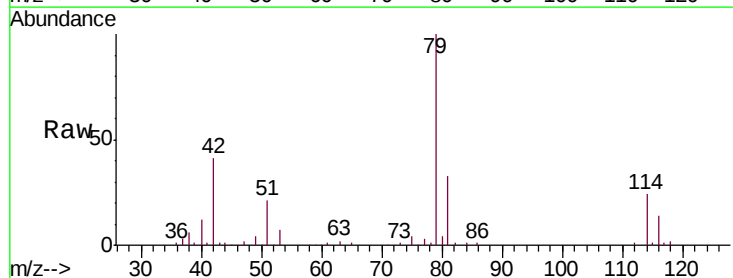
Acq: 26 Jul 2019 01:18

Tgt Ion: 75 Resp: 3578

Ion Ratio Lower Upper

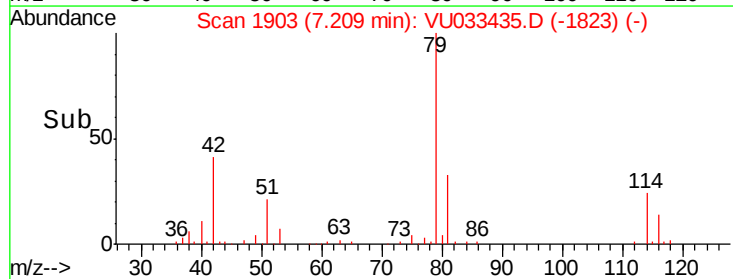
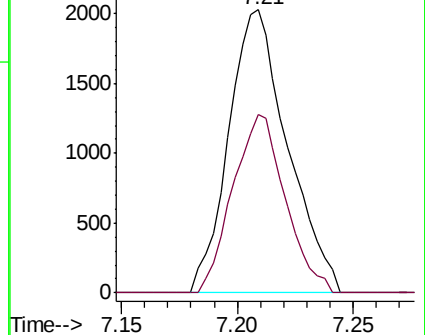
75 100

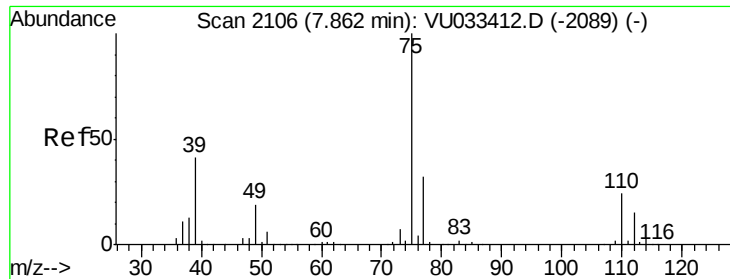
77 63.2 23.1 42.9#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.801 ug/L

RT: 7.83 min Scan# 2096

Delta R.T. -0.03 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

Instrument :

MSVOA\_U

ClientSampleId :

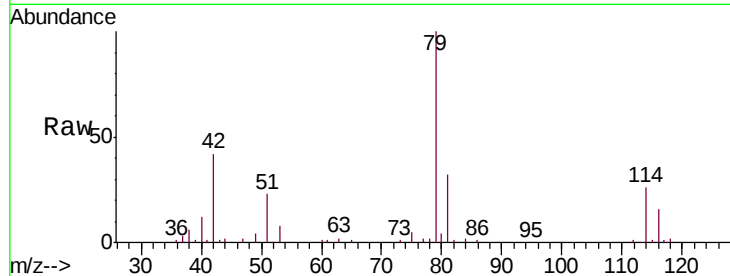
C0CA9

Tgt Ion: 75 Resp: 2513

Ion Ratio Lower Upper

75 100

77 43.1 22.4 41.6#



Abundance Ion 75.00 (74.70 to 75.70): VU033412.D (-2089) (-)

Ion 77.00 (76.70 to 77.70): VU033412.D (-2089) (-)

7.83

1500

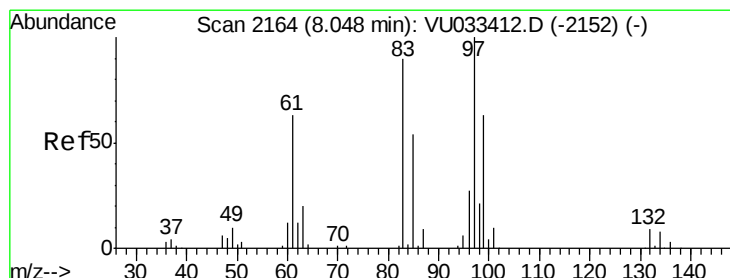
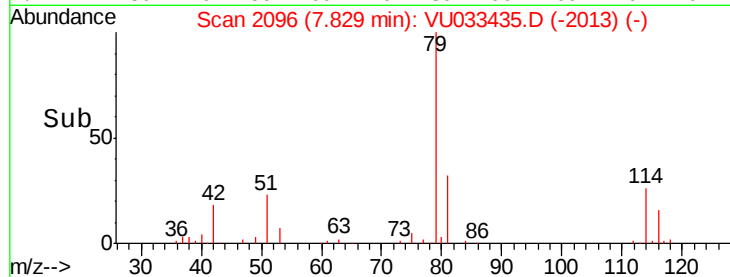
1000

500

0

7.80 7.85

Time-->



#45

1,1,2-Trichloroethane

Concen: 5.137 ug/L

RT: 8.05 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

Tgt Ion: 97 Resp: 11028

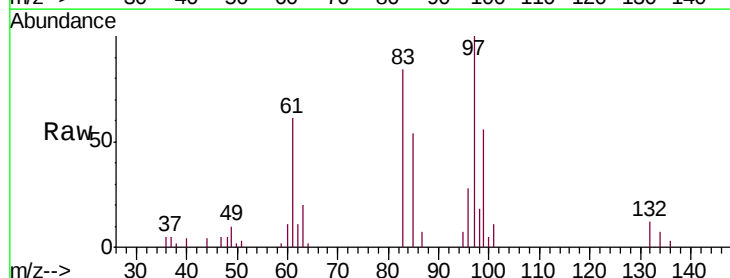
Ion Ratio Lower Upper

97 100

99 56.1 43.0 79.8

83 84.0 61.5 114.3

85 54.0 38.8 72.0



Abundance Ion 97.00 (96.70 to 97.70): VU033412.D (-2152) (-)

Ion 99.00 (98.70 to 99.70): VU033412.D (-2152) (-)

Ion 83.00 (82.70 to 83.70): VU033412.D (-2152) (-)

Ion 85.00 (84.70 to 85.70): VU033412.D (-2152) (-)

8.05

10000

8000

6000

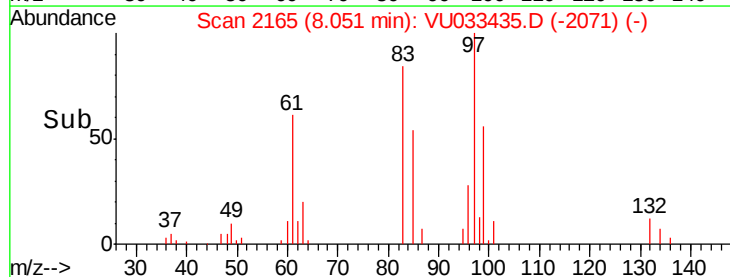
4000

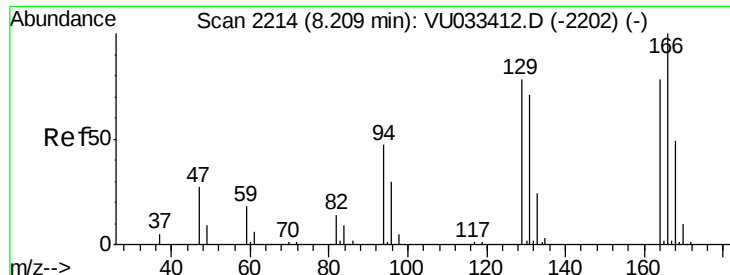
2000

0

8.00 8.05 8.10

Time-->

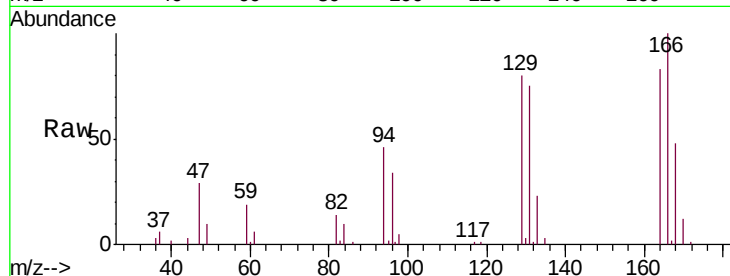




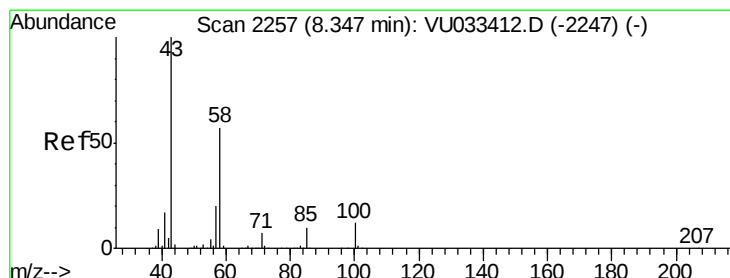
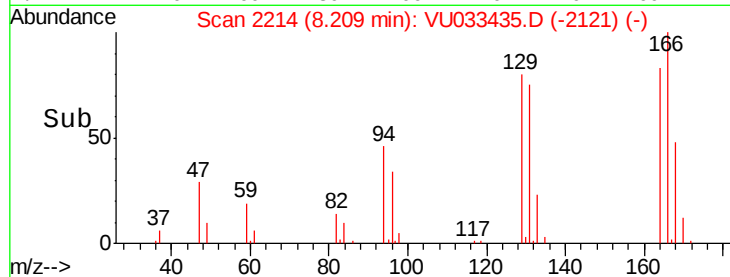
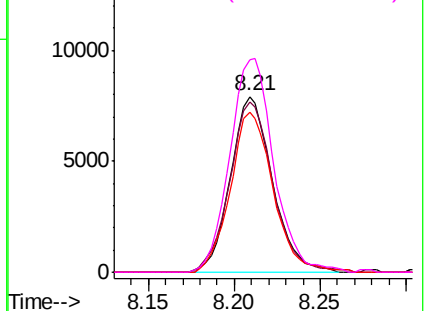
#46  
Tetrachloroethene  
Concen: 7.918 ug/L  
RT: 8.21 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VU033435.D  
Acq: 26 Jul 2019 01:18

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0CA9

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 13418 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 96.6  | 69.6  | 129.2 |
| 131      | 91.1  | 65.7  | 122.1 |
| 166      | 120.9 | 88.5  | 164.4 |

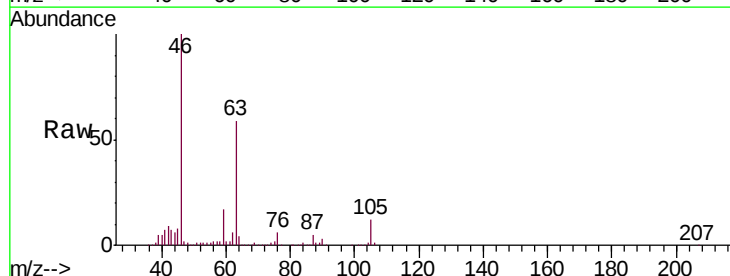


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

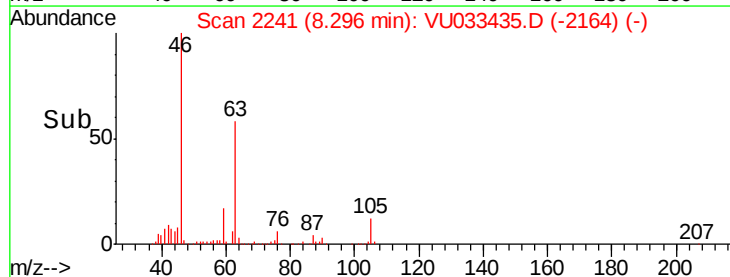
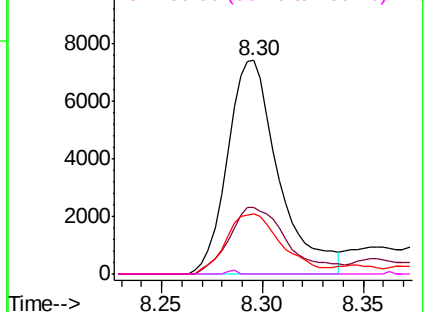


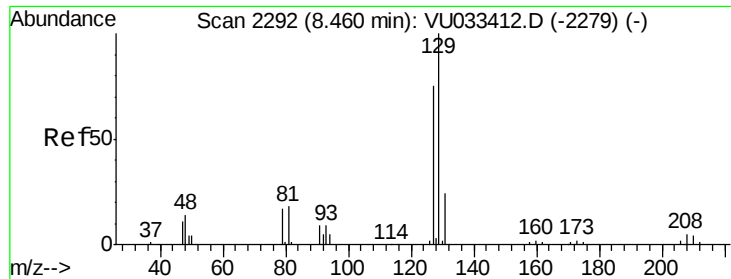
#48  
2-Hexanone  
Concen: 5.295 ug/L  
RT: 8.30 min Scan# 2241  
Delta R.T. -0.05 min  
Lab File: VU033435.D  
Acq: 26 Jul 2019 01:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 13137 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 36.1  | 46.1  | 69.1# |
| 57       | 30.6  | 15.8  | 23.8# |
| 100      | 0.3   | 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





#49

Dibromochloromethane

Concen: 5.602 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.25 min

Lab File: VU033435.D

Acq: 26 Jul 2019 01:18

Instrument :

MSVOA\_U

ClientSampleId :

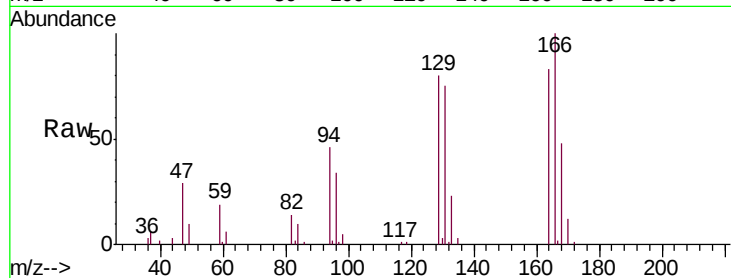
C0CA9

Tgt Ion:129 Resp: 13415

Ion Ratio Lower Upper

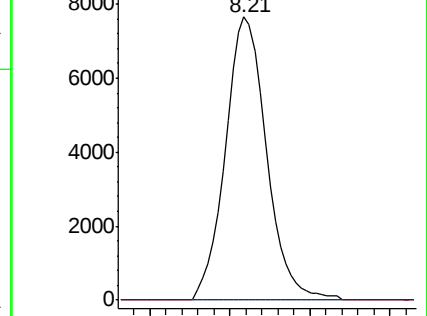
129 100

127 0.0 54.3 100.9#

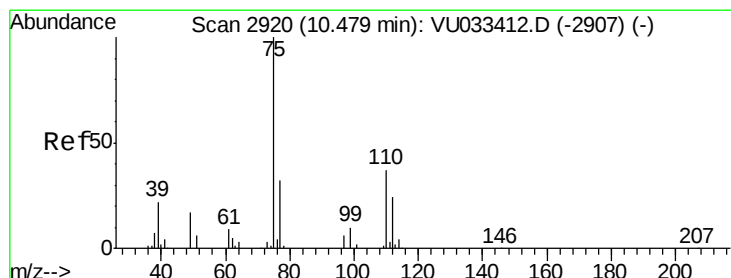
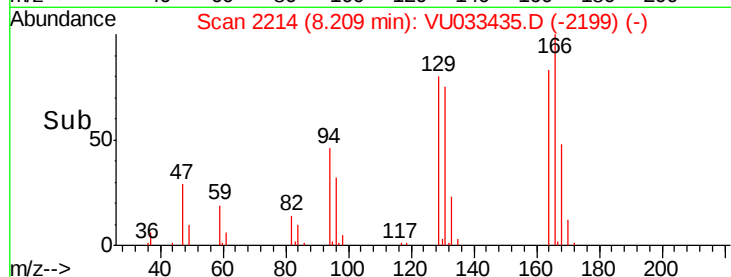


Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time-->



#59

1,2,3-Trichloropropane

Concen: 5.019 ug/L

RT: 11.47 min Scan# 3228

Delta R.T. 0.99 min

Lab File: VU033435.D

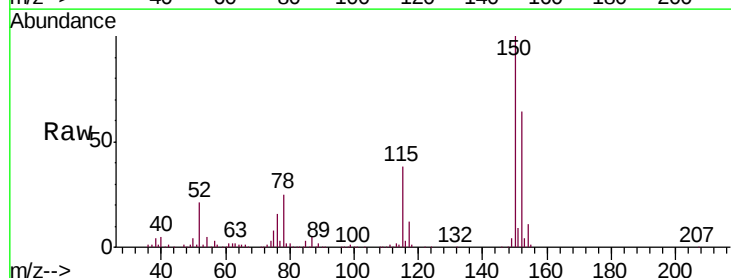
Acq: 26 Jul 2019 01:18

Tgt Ion: 75 Resp: 14833

Ion Ratio Lower Upper

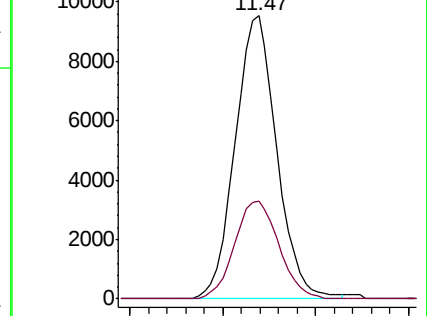
75 100

77 36.6 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



Time-->

