

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\  
 Data File : VU030929.D  
 Acq On : 09 Apr 2019 01:00  
 Operator : JC/SP  
 Sample : K2248-16  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E3YD1

Quant Time: Apr 09 03:43:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Apr 09 03:34:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 229112   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 222040   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 89899    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 126369   | 7.22     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 144.40%# |
| 7) Chloroethane-d5             | 1.68   | 69    | 79220    | 5.61     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 112.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 211814   | 5.91     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 118.20%  |
| 20) 2-Butanone-d5              | 4.20   | 46    | 307675   | 68.20    | ug/L | -0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 136.40%# |
| 24) Chloroform-d               | 4.64   | 84    | 148410   | 4.99     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.80%   |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 98841    | 6.27     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 125.40%  |
| 32) Benzene-d6                 | 5.33   | 84    | 327404   | 5.54     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 111602   | 5.69     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 113.80%  |
| 41) Toluene-d8                 | 7.56   | 98    | 255138   | 4.89     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%   |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 38524    | 5.29     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 105.80%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 193078   | 60.97    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 121.94%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 92024    | 6.55     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 131.00%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 88115    | 5.86     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 117.20%  |

## Target Compounds

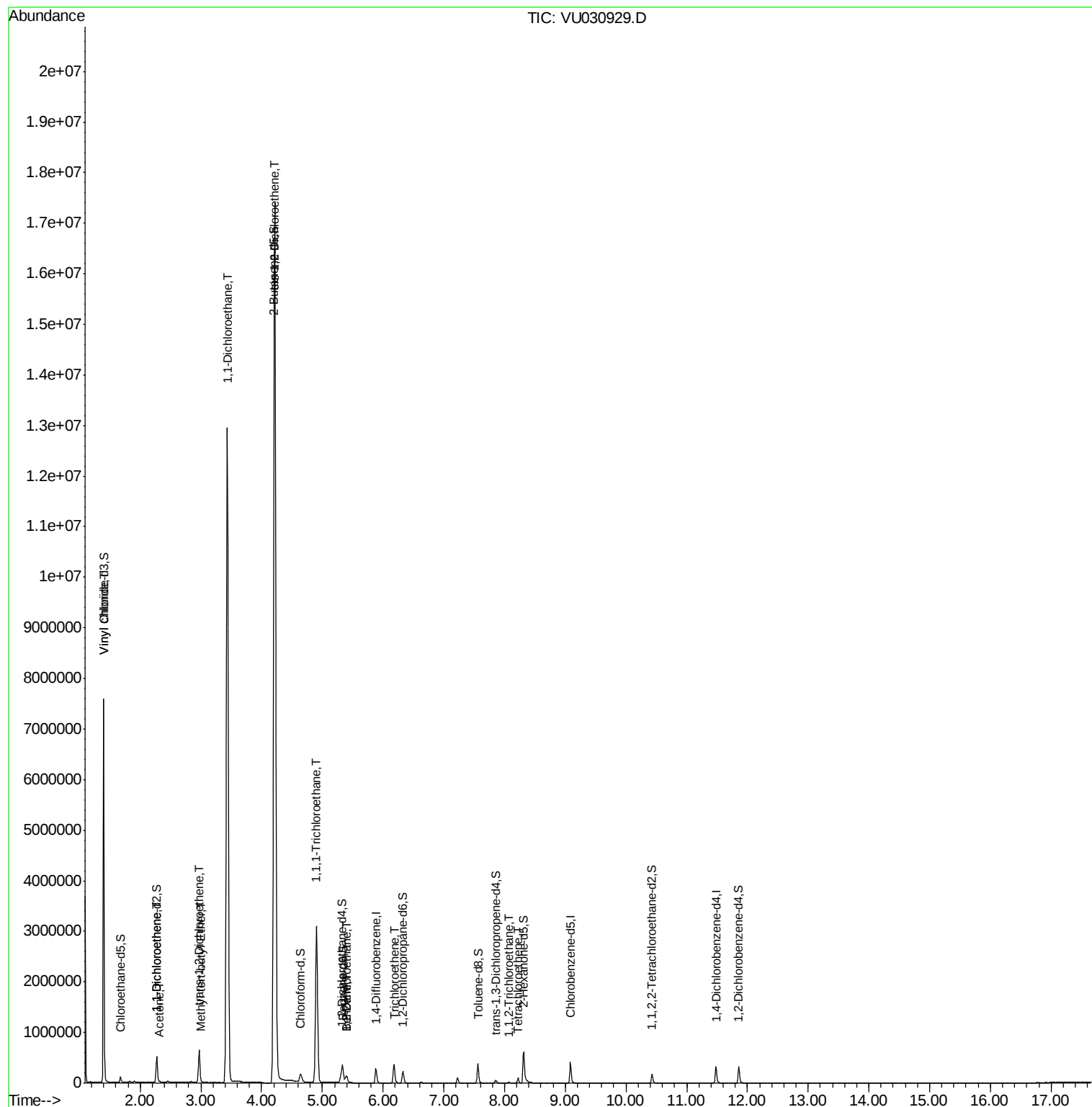
| Target Compounds             | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|------------------------------|------|------|----------|---------|--------|--------|
| 5) Vinyl chloride            | 1.40 | 62   | 4682112  | 170.791 | ug/L   | 100    |
| 12) 1,1-Dichloroethene       | 2.28 | 96   | 111944   | 6.696   | ug/L   | 84     |
| 13) Acetone                  | 2.32 | 43   | 18087    | 5.186   | ug/L   | 91     |
| 17) Methyl tert-butyl Ether  | 3.00 | 73   | 8267     | 0.185   | ug/L # | 91     |
| 18) trans-1,2-Dichloroethene | 2.97 | 96   | 236899   | 13.423  | ug/L   | 93     |
| 19) 1,1-Dichloroethane       | 3.43 | 63   | 14279521 | 382.491 | ug/L   | 99     |
| 22) cis-1,2-Dichloroethene   | 4.22 | 96   | 9320287  | 495.220 | ug/L   | 98     |
| 27) 1,2-Dichloroethane       | 5.40 | 62   | 96705    | 4.379   | ug/L   | 96     |
| 29) 1,1,1-Trichloroethane    | 4.90 | 97   | 2415171  | 85.383  | ug/L   | 99     |
| 33) Benzene                  | 5.38 | 78   | 64921    | 0.864   | ug/L   | 100    |
| 34) Trichloroethene          | 6.18 | 95   | 132859   | 7.066   | ug/L   | 95     |
| 45) 1,1,2-Trichloroethane    | 8.07 | 97   | 8254     | 0.670   | ug/L   | 94     |
| 47) Tetrachloroethene        | 8.22 | 164  | 23547    | 1.785   | ug/L   | 98     |

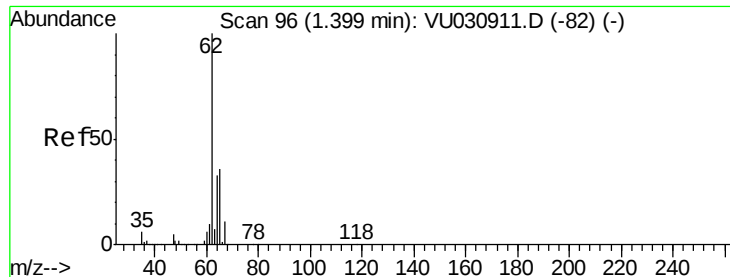
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\  
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Operator : JC/SP  
Sample : K2248-16  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
E3YD1

Quant Time: Apr 09 03:43:28 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032919WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Apr 09 03:34:38 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 170.791 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

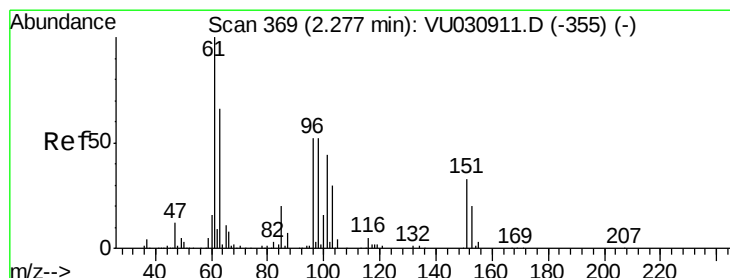
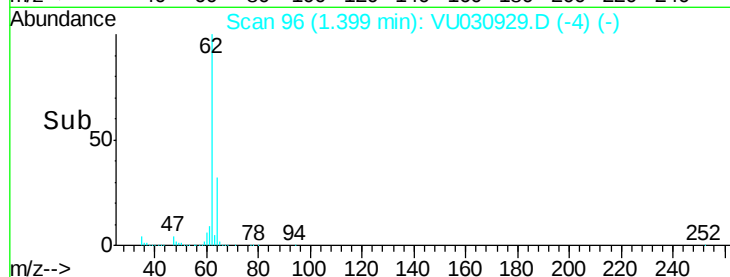
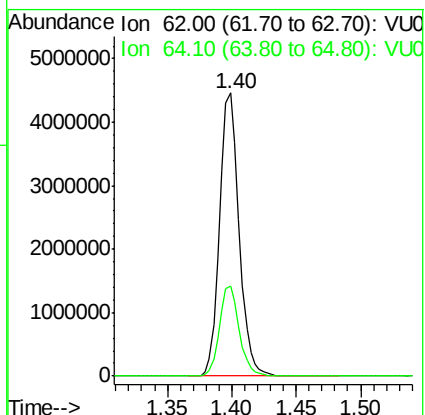
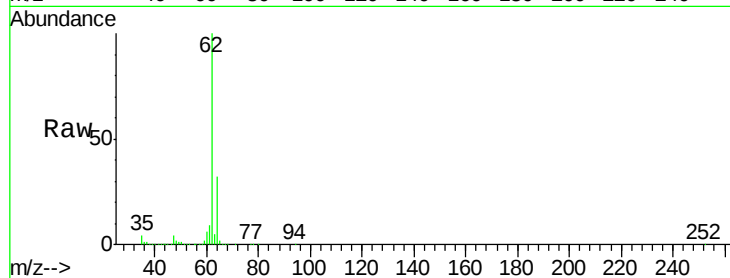
MSVOA\_U

ClientSampleId :

E3YD1

Tot Ion: 62 Resp: 4682112

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 64  | 31.9  | 22.5  | 41.9  |



#12

1,1-Dichloroethene

Concen: 6.696 ug/L

RT: 2.28 min Scan# 370

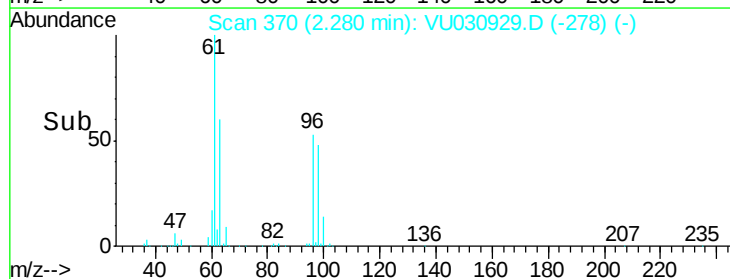
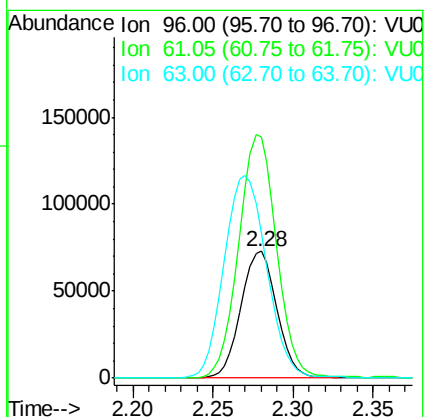
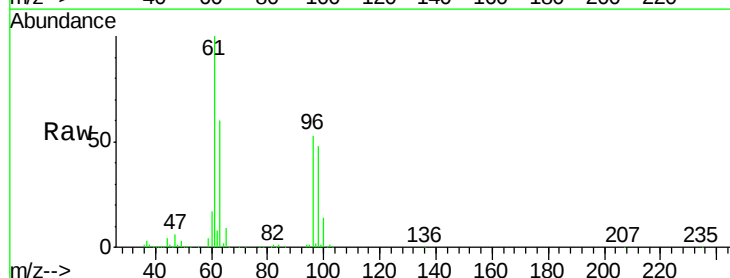
Delta R.T. -0.00 min

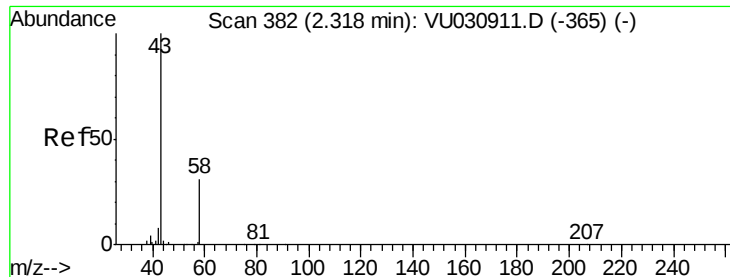
Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Tgt Ion: 96 Resp: 111944

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 190.0 | 136.9 | 254.3 |
| 63  | 114.1 | 107.7 | 200.1 |





#13

Acetone

Concen: 5.186 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.04 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA\_U

ClientSampleId :

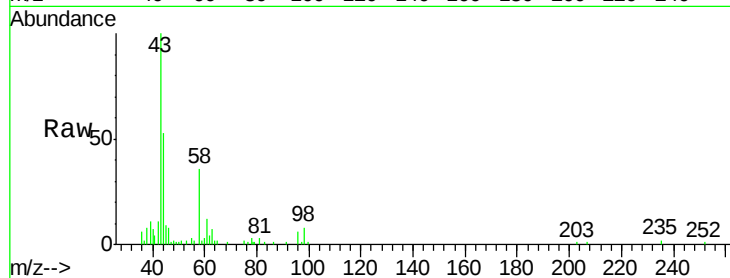
E3YD1

Tot Ion: 43 Resp: 18087

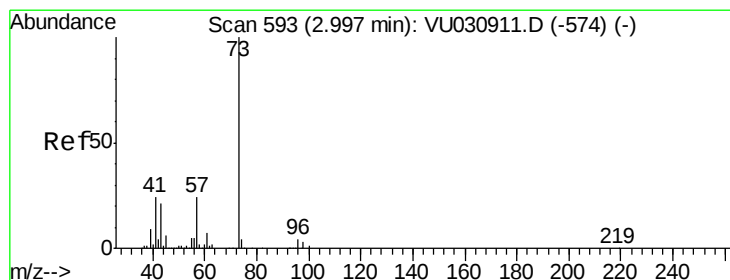
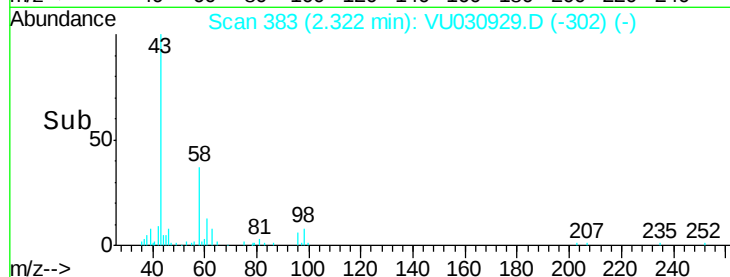
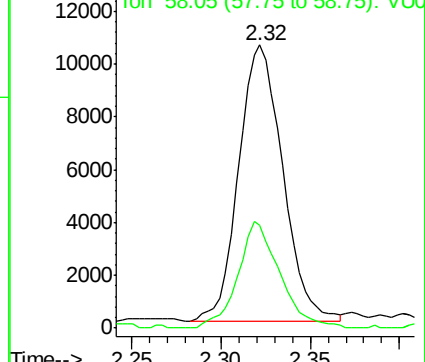
Ion Ratio Lower Upper

43 100

58 36.4 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU030929.D (-302) (-)



#17

Methyl tert-butyl Ether

Concen: 0.185 ug/L

RT: 3.00 min Scan# 595

Delta R.T. -0.00 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

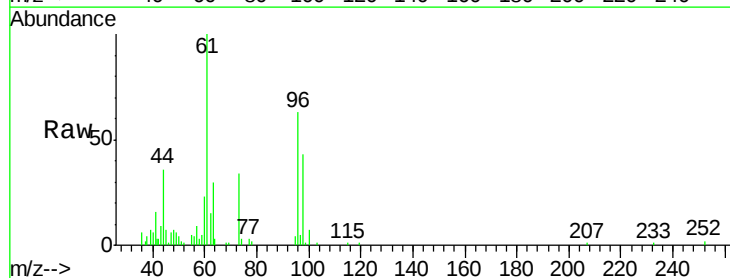
Tgt Ion: 73 Resp: 8267

Ion Ratio Lower Upper

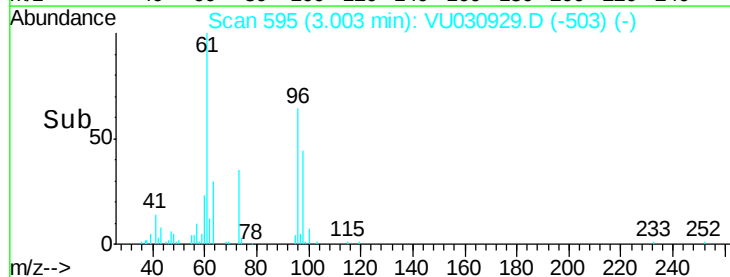
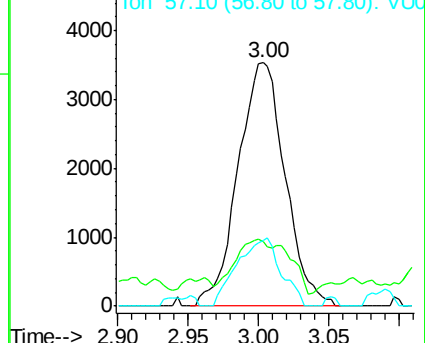
73 100

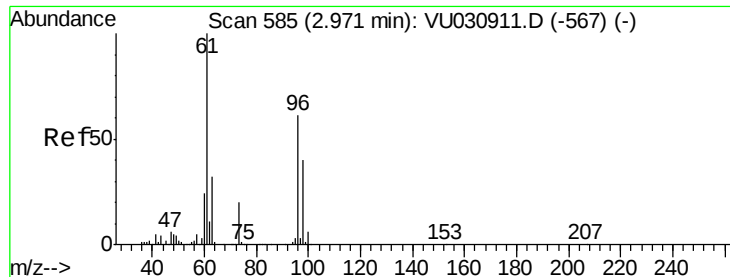
43 13.9 17.0 25.4#

57 25.9 19.4 29.2



Abundance Ion 73.10 (72.80 to 73.80): VU030929.D (-503) (-)





#18

trans-1,2-Dichloroethene

Concen: 13.423 ug/L

RT: 2.97 min Scan# 585

Delta R.T. -0.01 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA\_U

ClientSampleId :

E3YD1

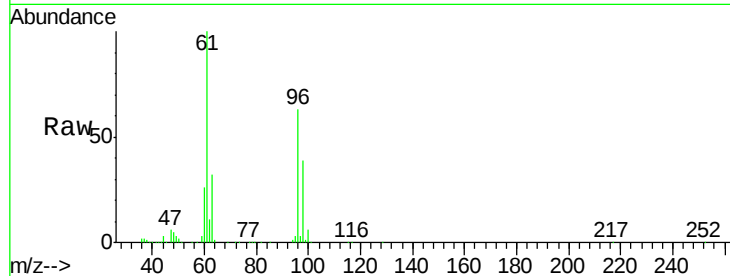
Tot Ion: 96 Resp: 236899

Ion Ratio Lower Upper

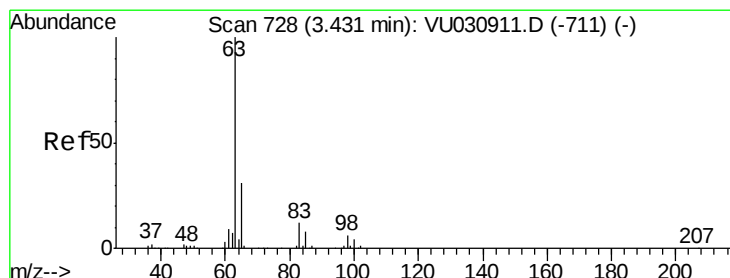
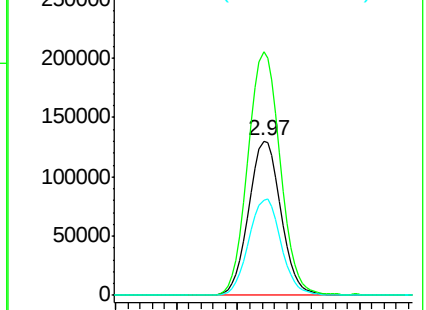
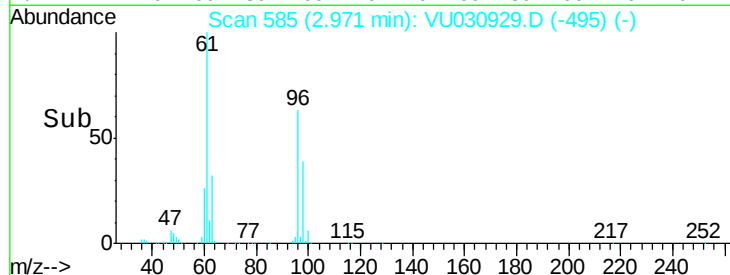
96 100

61 157.7 116.8 216.8

98 61.9 46.8 87.0



Abundance Ion 96.00 (95.70 to 96.70): VU030929.D (-495) (-)



#19

1,1-Dichloroethane

Concen: 382.491 ug/L

RT: 3.43 min Scan# 729

Delta R.T. -0.01 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

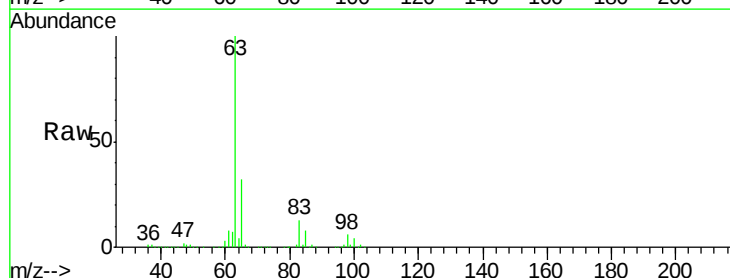
Tgt Ion: 63 Resp: 14279521

Ion Ratio Lower Upper

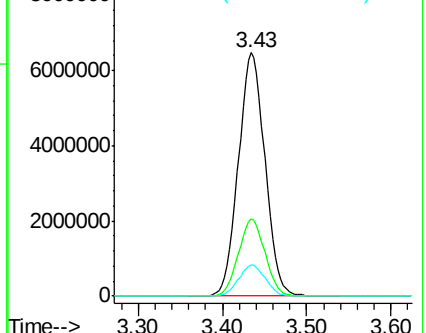
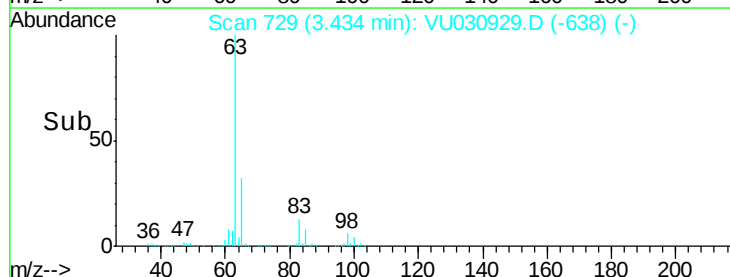
63 100

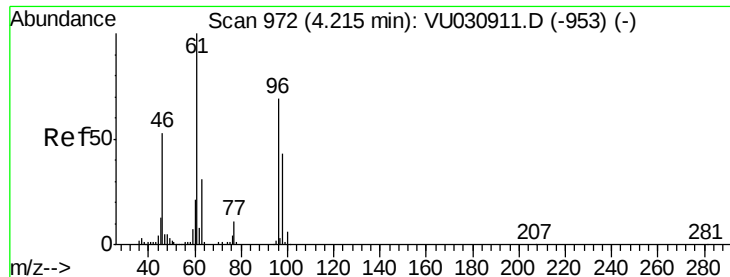
65 31.9 21.6 40.0

83 12.9 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU030929.D (-638) (-)



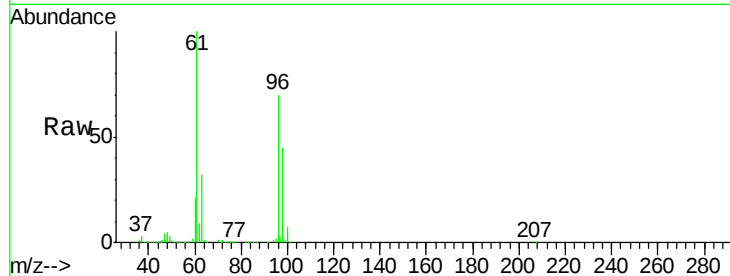


#22

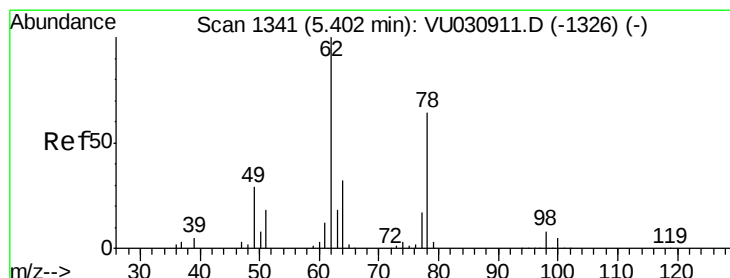
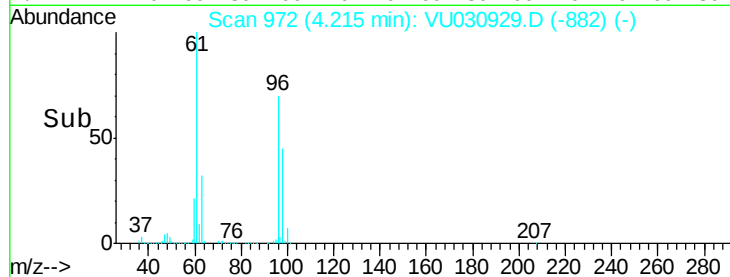
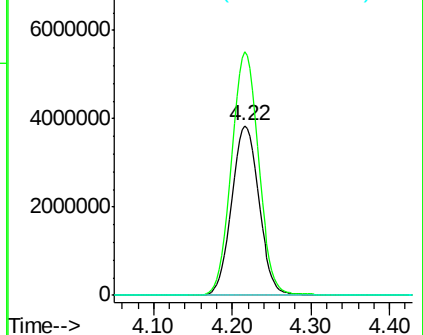
cis-1,2-Dichloroethene  
 Concen: 495.220 ug/L  
 RT: 4.22 min Scan# 972  
 Delta R.T. -0.01 min  
 Lab File: VU030929.D  
 Acq: 09 Apr 2019 01:00

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E3YD1

Tot Ion: 96 Resp: 9320287  
 Ion Ratio Lower Upper  
 96 100  
 61 143.4 98.9 183.7  
 68 0.0 0.0 0.0



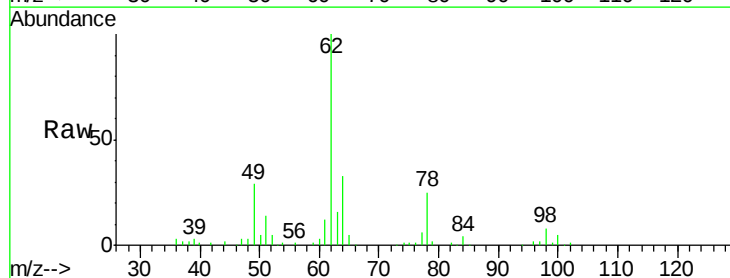
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



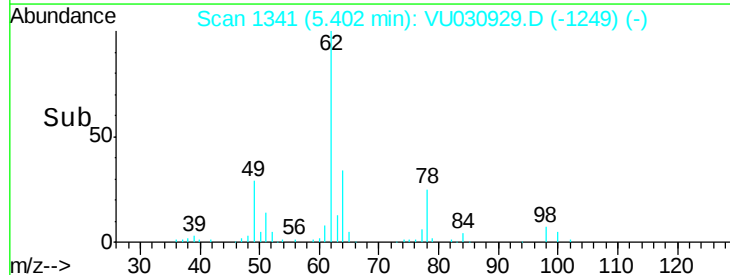
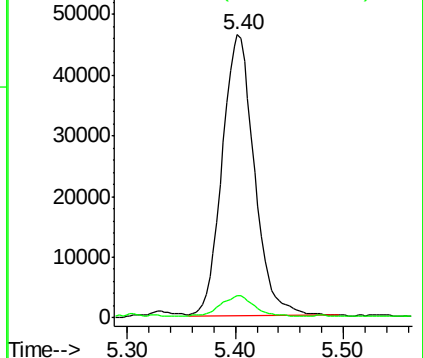
#27

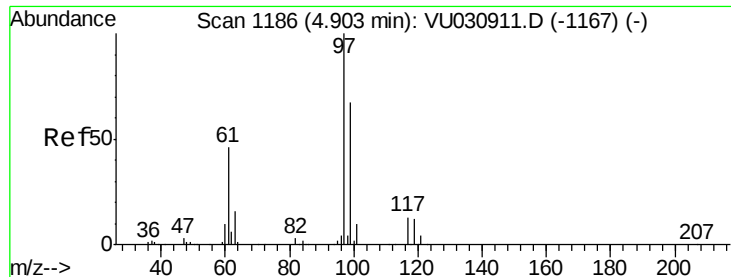
1,2-Dichloroethane  
 Concen: 4.379 ug/L  
 RT: 5.40 min Scan# 1341  
 Delta R.T. -0.00 min  
 Lab File: VU030929.D  
 Acq: 09 Apr 2019 01:00

Tgt Ion: 62 Resp: 96705  
 Ion Ratio Lower Upper  
 62 100  
 98 7.9 7.4 11.2



Abundance Ion 62.00 (61.70 to 62.70): VU0  
 Ion 98.05 (97.75 to 98.75): VU0



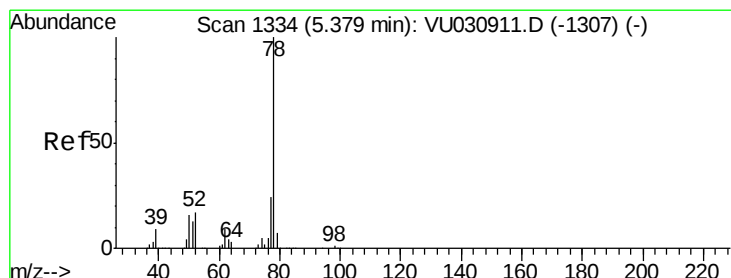
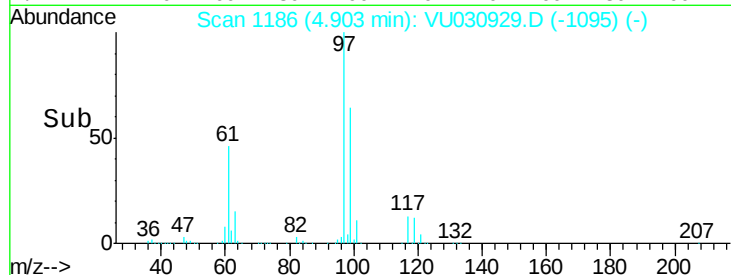
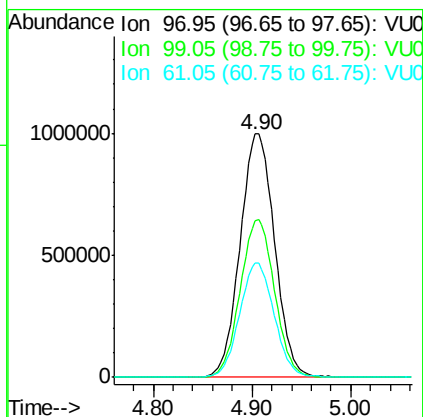
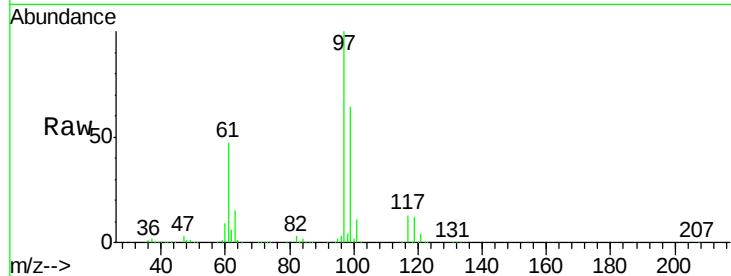


#29  
 1,1,1-Trichloroethane  
 Concen: 85.383 ug/L  
 RT: 4.90 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: VU030929.D  
 Acq: 09 Apr 2019 01:00

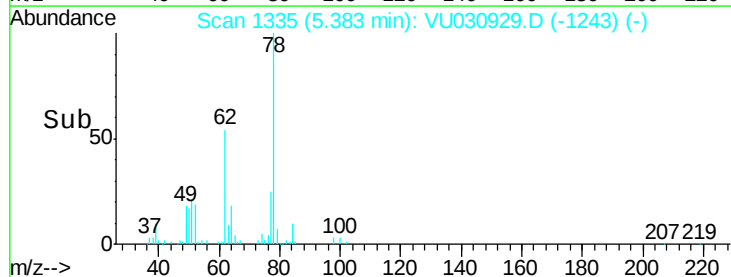
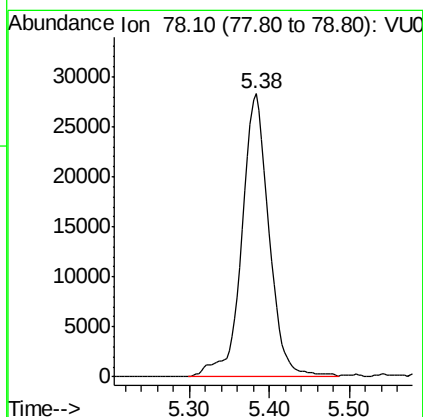
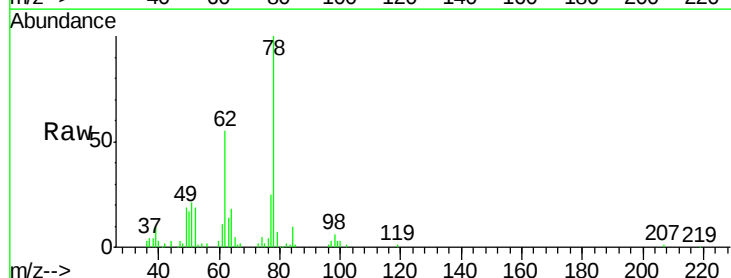
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E3YD1

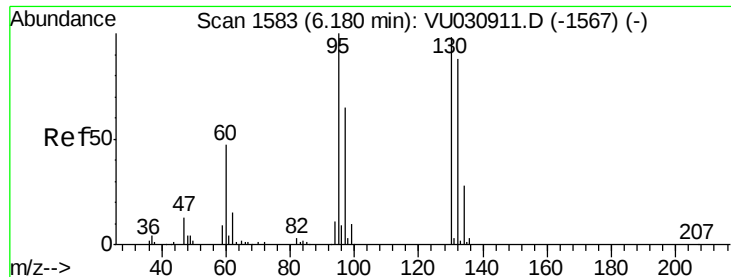
Tot Ion: 97 Resp: 2415171  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 64.6  | 51.8  | 77.6  |
| 61  | 46.3  | 38.1  | 57.1  |



#33  
 Benzene  
 Concen: 0.864 ug/L  
 RT: 5.38 min Scan# 1335  
 Delta R.T. -0.00 min  
 Lab File: VU030929.D  
 Acq: 09 Apr 2019 01:00  
 Tgt Ion: 78 Resp: 64921





#34

Trichloroethene

Concen: 7.066 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Instrument :

MSVOA\_U

ClientSampleId :

E3YD1

Tot Ion: 95 Resp: 132859

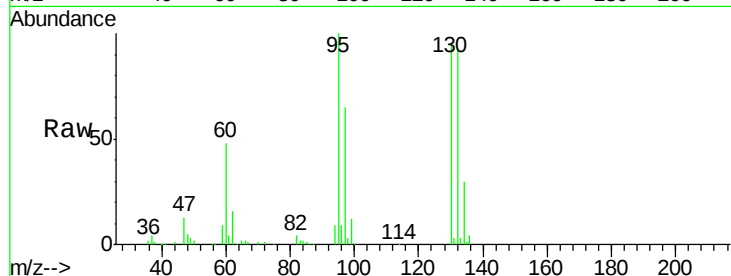
Ion Ratio Lower Upper

95 100

97 65.3 43.5 80.9

132 93.2 60.7 112.7

130 96.0 65.1 120.9

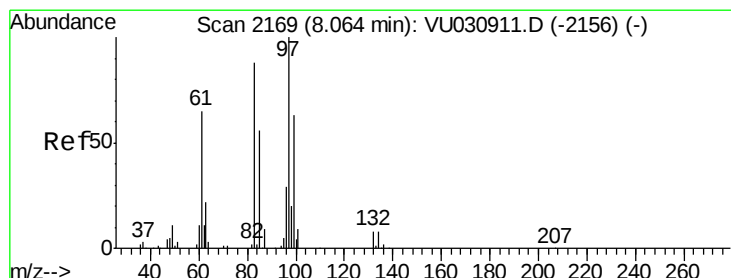
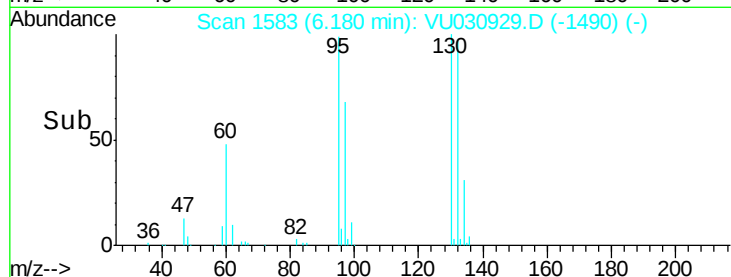
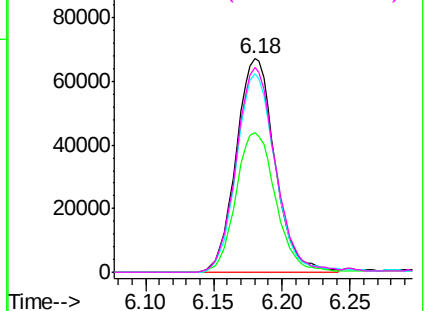


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#45

1,1,2-Trichloroethane

Concen: 0.670 ug/L

RT: 8.07 min Scan# 2171

Delta R.T. 0.01 min

Lab File: VU030929.D

Acq: 09 Apr 2019 01:00

Tgt Ion: 97 Resp: 8254

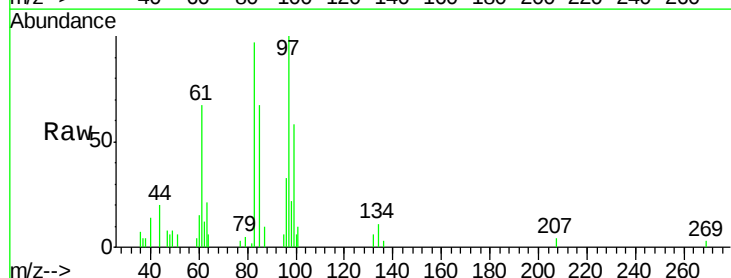
Ion Ratio Lower Upper

97 100

99 58.0 45.3 84.1

83 97.0 66.5 123.5

85 66.6 41.2 76.4

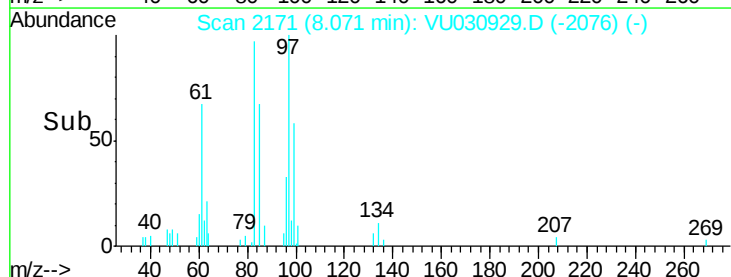
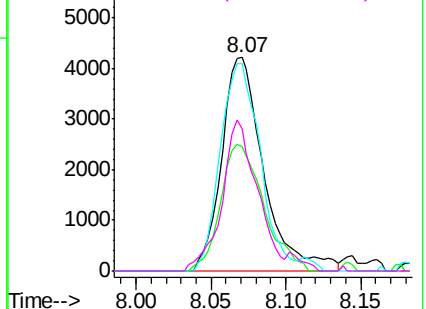


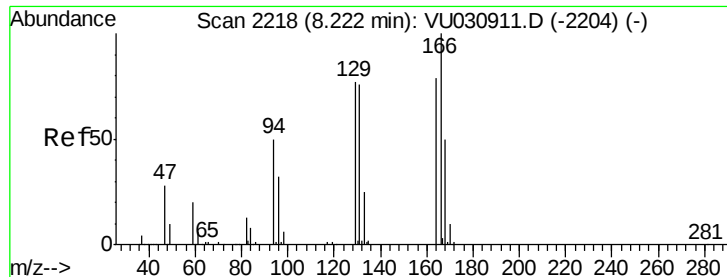
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0





#47

Tetrachloroethene

Concen: 1.785 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU030929.D

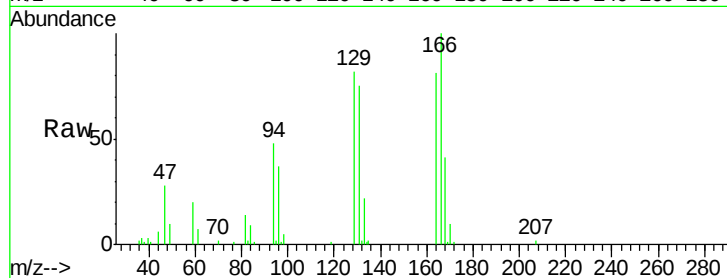
Acq: 09 Apr 2019 01:00

Instrument :

MSVOA\_U

ClientSampleId :

E3YD1



Tot Ion:164 Resp: 23547

Ion Ratio Lower Upper

164 100

129 101.8 70.1 130.1

131 92.6 67.8 125.8

166 124.2 87.9 163.3

Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

