

Data File : VU030425.D  
Acq On : 26 Mar 2019 00:13  
Operator : JC/SP  
Sample : K2070-11DL 10X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D6DL

Quant Time: Mar 26 01:33:55 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Mar 26 01:25:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 459081   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 433623   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 180562   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 189264   | 51.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 102.46% |
| 7) Chloroethane-d5             | 1.67    | 69    | 149012   | 50.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.76% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 261812   | 37.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.72%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 324546   | 93.45    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 93.45%  |
| 24) Chloroform-d               | 4.64    | 84    | 302489   | 47.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.04%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 201547   | 48.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.78%  |
| 32) Benzene-d6                 | 5.34    | 84    | 626337   | 50.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.74% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 217094   | 51.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.06% |
| 41) Toluene-d8                 | 7.56    | 98    | 548828   | 49.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.28%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 89427    | 44.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.40%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 196607   | 85.28    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 85.28%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 285020   | 46.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.64%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 183937   | 50.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.68% |

#### Target Compounds

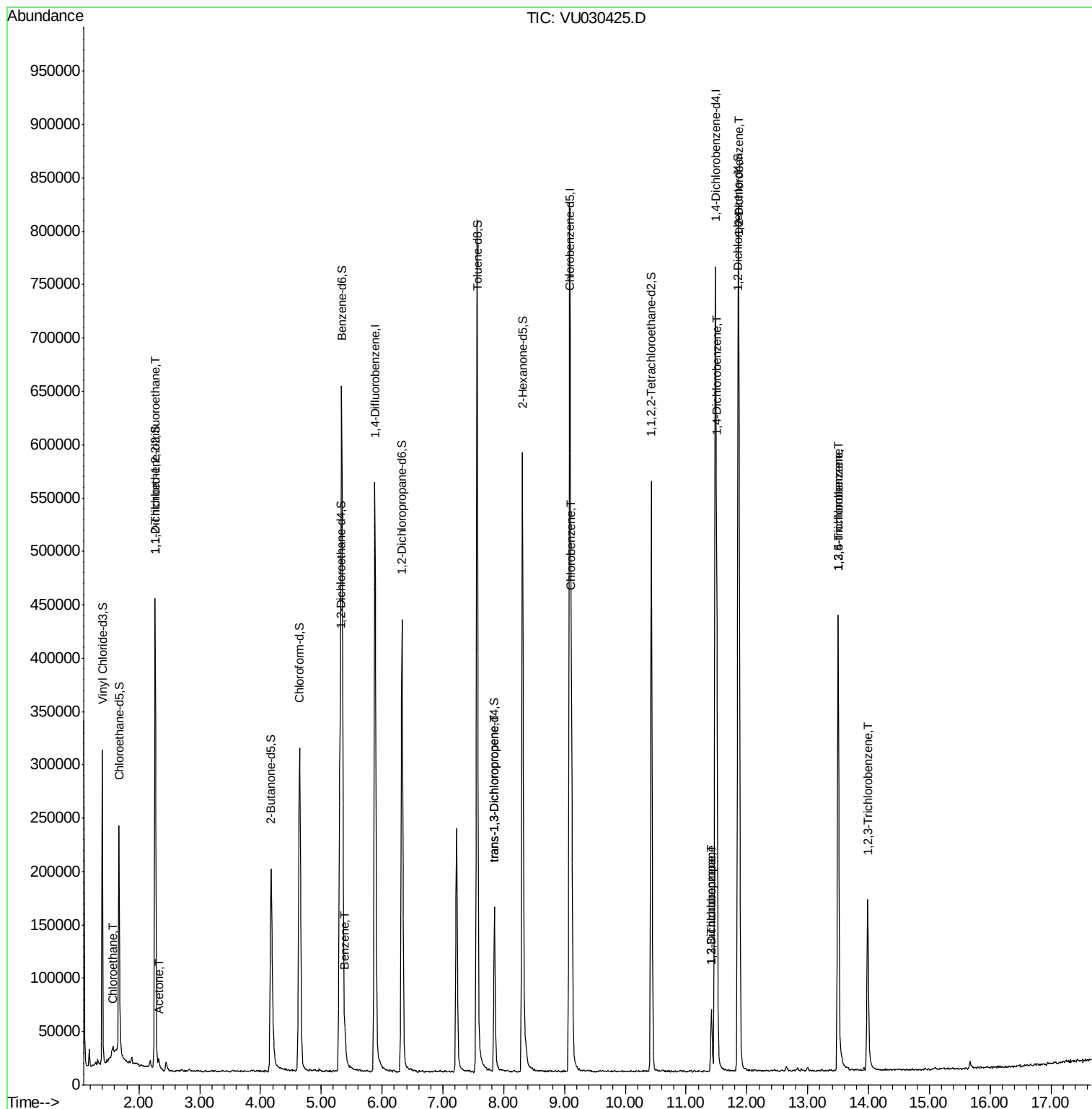
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 8) Chloroethane                | 1.59  | 64  | 8563   | 2.824  | ug/L # | 50     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 2209   | 0.659  | ug/L # | 21     |
| 13) Acetone                    | 2.32  | 43  | 5016   | 1.428  | ug/L   | 93     |
| 33) Benzene                    | 5.39  | 78  | 27877  | 1.889  | ug/L   | 100    |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 3524   | 0.665  | ug/L   | 92     |
| 51) Chlorobenzene              | 9.12  | 112 | 184782 | 19.902 | ug/L   | 99     |
| 59) 1,2,3-Trichloropropane     | 11.41 | 75  | 7682   | 1.507  | ug/L # | 43     |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146 | 23111  | 3.914  | ug/L   | 99     |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146 | 161488 | 26.565 | ug/L   | 98     |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146 | 142744 | 23.907 | ug/L   | 97     |
| 67) 1,3,5-Trichlorobenzene     | 13.50 | 180 | 141534 | 32.017 | ug/L   | 100    |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180 | 141534 | 36.849 | ug/L   | 99     |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180 | 58294  | 14.373 | ug/L   | 94     |

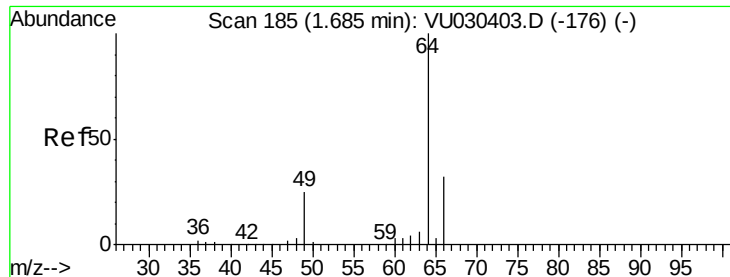
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU030425.D  
Acq On : 26 Mar 2019 00:13  
Operator : JC/SP  
Sample : K2070-11DL 10X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D6DL

Quant Time: Mar 26 01:33:55 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Mar 26 01:25:56 2019  
Response via : Initial Calibration





#8

Chloroethane

Concen: 2.824 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.10 min

Lab File: VU030425.D

Acq: 26 Mar 2019 00:13

Instrument :

MSVOA\_U

ClientSampleId :

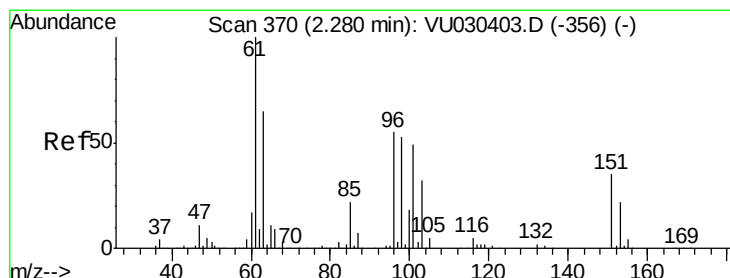
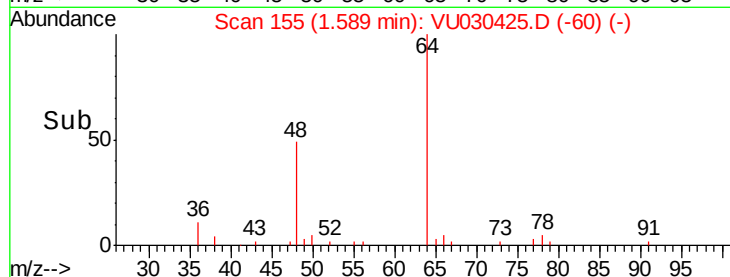
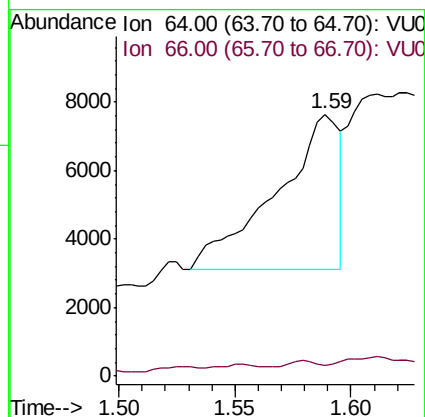
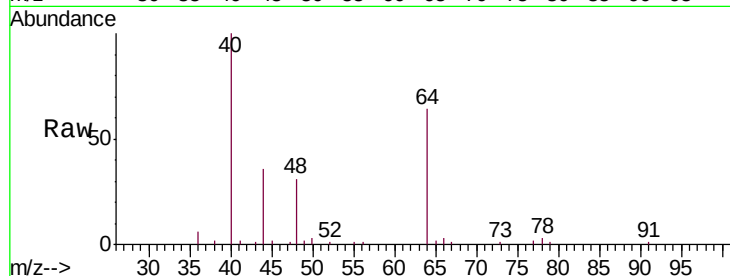
C09D6DL

Tgt Ion: 64 Resp: 8563

Ion Ratio Lower Upper

64 100

66 4.3 22.5 41.7#



#10

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

Concen: 0.659 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU030425.D

Acq: 26 Mar 2019 00:13

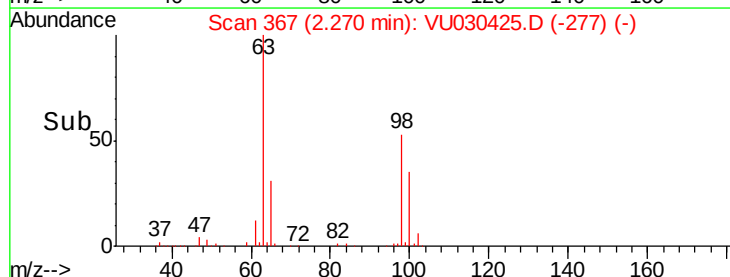
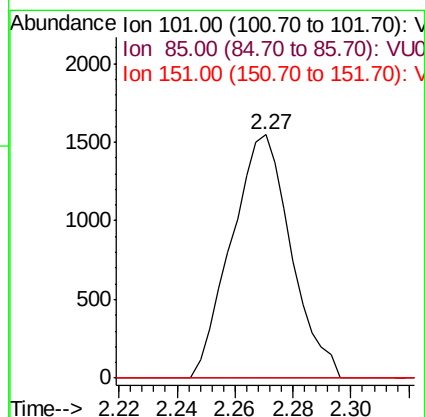
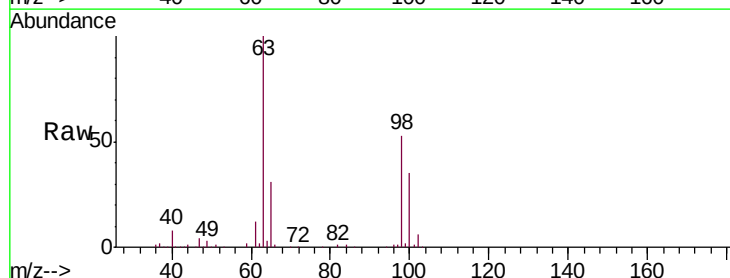
Tgt Ion: 101 Resp: 2209

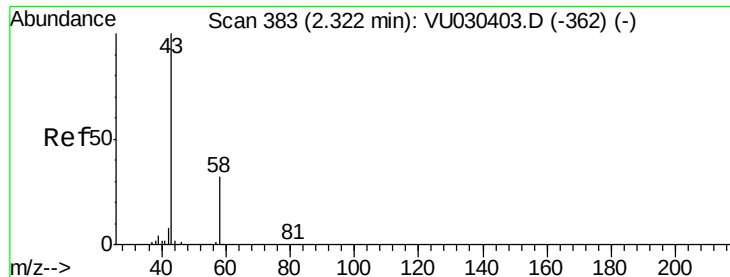
Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

151 0.0 56.6 85.0#





#13

Acetone

Concen: 1.428 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030425.D

Acq: 26 Mar 2019 00:13

Instrument :

MSVOA\_U

ClientSampleId :

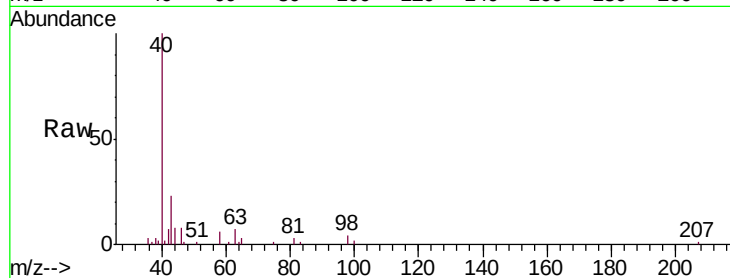
C09D6DL

Tgt Ion: 43 Resp: 5016

Ion Ratio Lower Upper

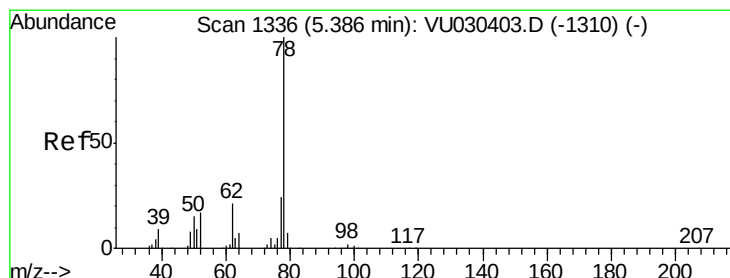
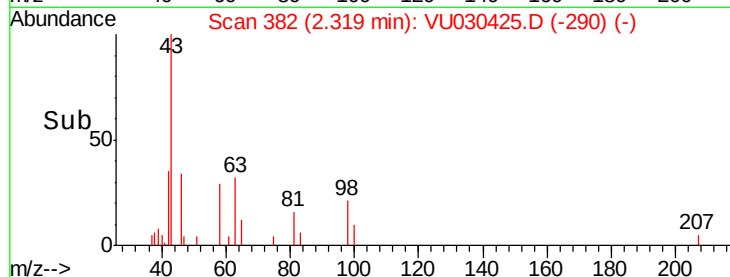
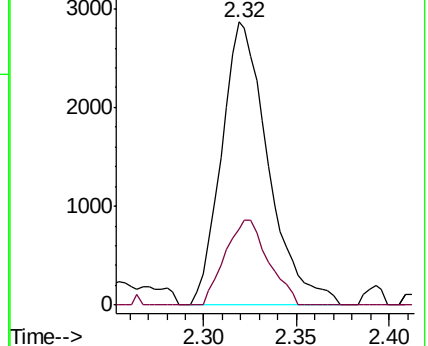
43 100

58 27.8 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030403.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU030403.D (-362) (-)



#33

Benzene

Concen: 1.889 ug/L

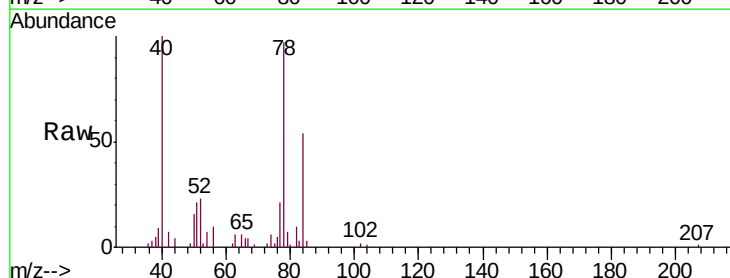
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

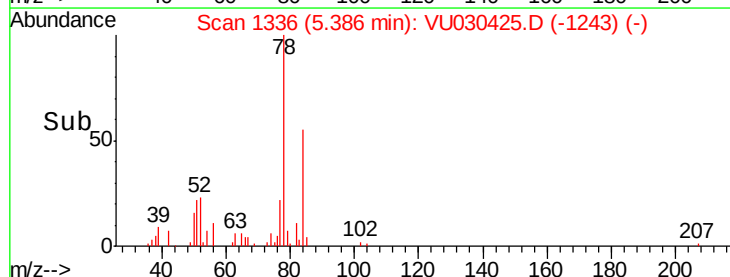
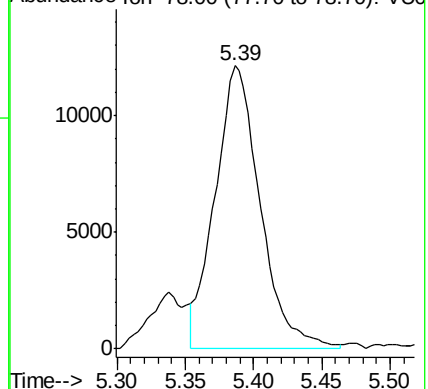
Lab File: VU030425.D

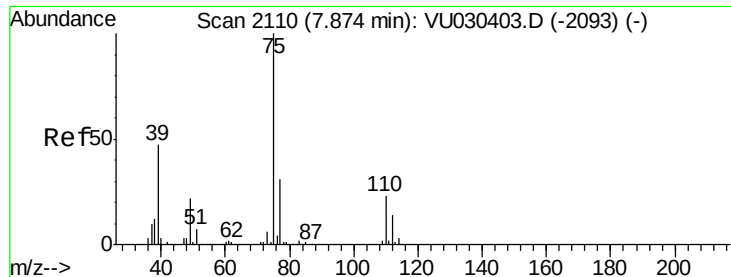
Acq: 26 Mar 2019 00:13

Tgt Ion: 78 Resp: 27877



Abundance Ion 78.00 (77.70 to 78.70): VU030403.D (-1310) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.665 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU030425.D

Acq: 26 Mar 2019 00:13

Instrument :

MSVOA\_U

ClientSampleId :

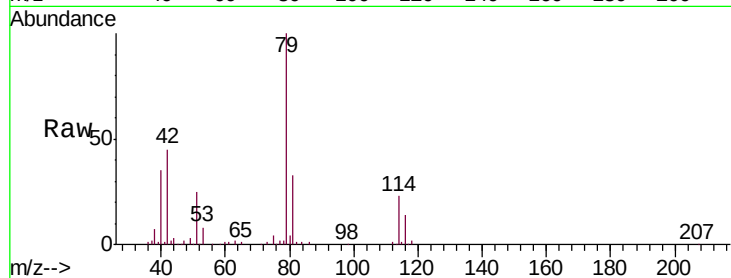
C09D6DL

Tgt Ion: 75 Resp: 3524

Ion Ratio Lower Upper

75 100

77 36.0 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU030403.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU030403.D (-2093) (-)

Time-->

7.80 7.85 7.90

2500

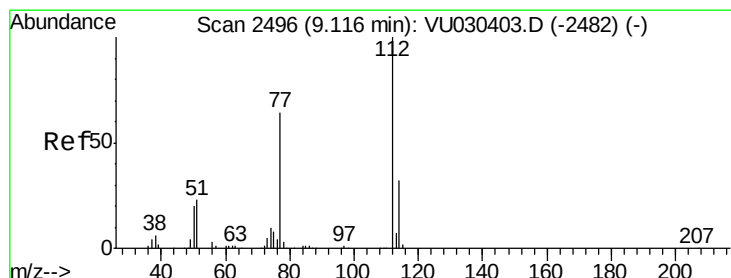
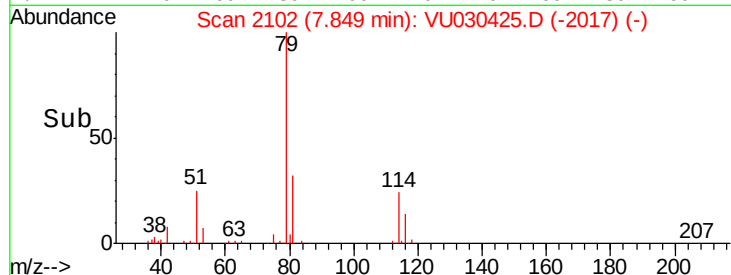
2000

1500

1000

500

0



#51

Chlorobenzene

Concen: 19.902 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU030425.D

Acq: 26 Mar 2019 00:13

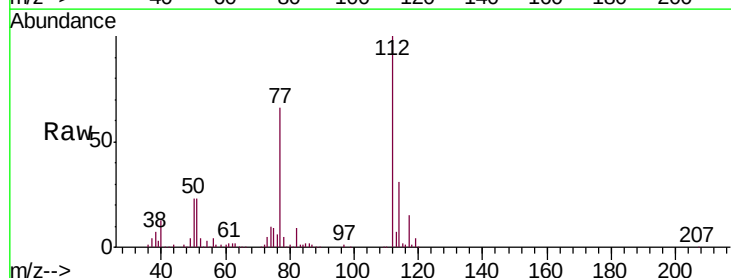
Tgt Ion: 112 Resp: 184782

Ion Ratio Lower Upper

112 100

114 30.7 21.5 39.9

77 65.8 51.4 77.0



Abundance Ion 112.00 (111.70 to 112.70): VU030403.D (-2482) (-)

Ion 114.00 (113.70 to 114.70): VU030403.D (-2482) (-)

Ion 77.00 (76.70 to 77.70): VU030403.D (-2482) (-)

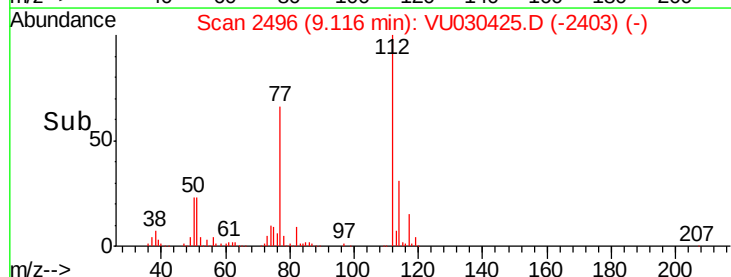
Time-->

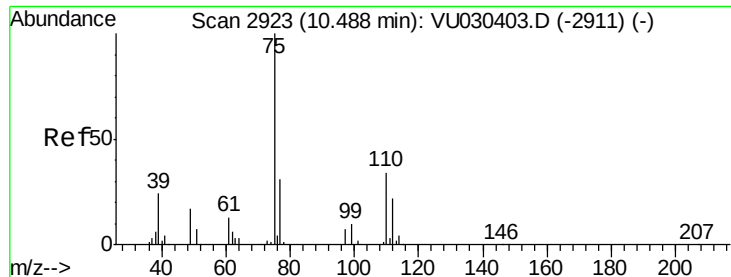
9.05 9.10 9.15 9.20

100000

50000

0

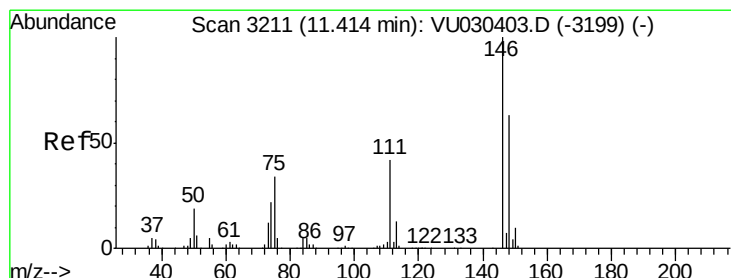
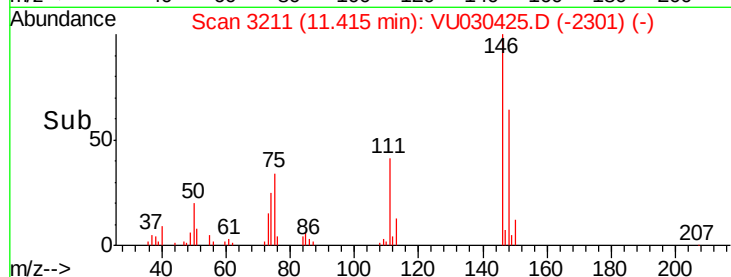
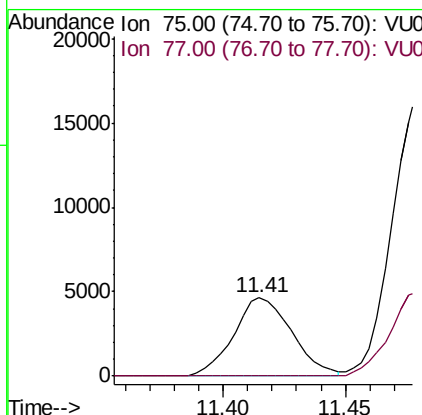
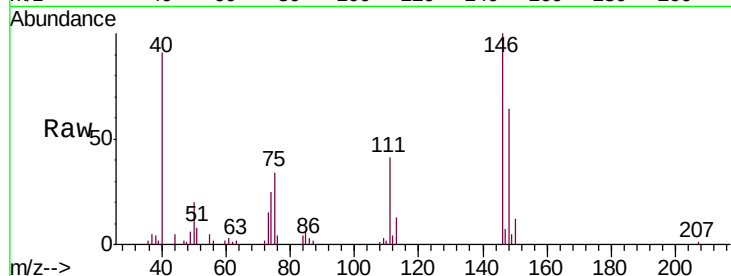




#59  
 1,2,3-Trichloropropane  
 Concen: 1.507 ug/L  
 RT: 11.41 min Scan# 3211  
 Delta R.T. 0.93 min  
 Lab File: VU030425.D  
 Acq: 26 Mar 2019 00:13

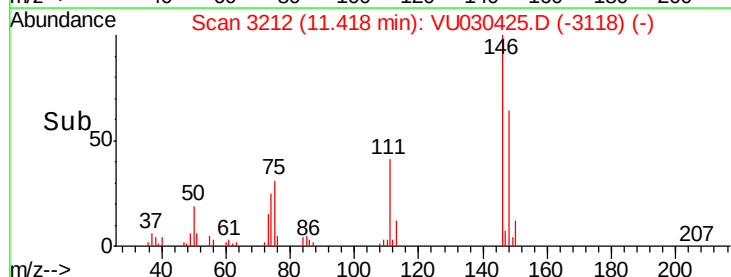
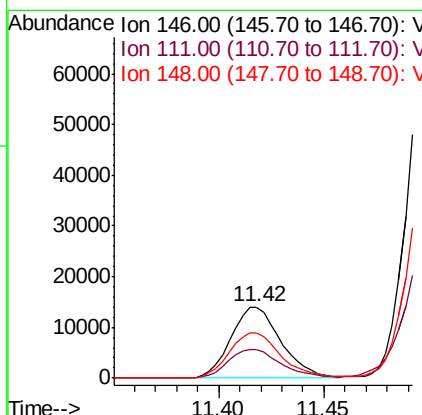
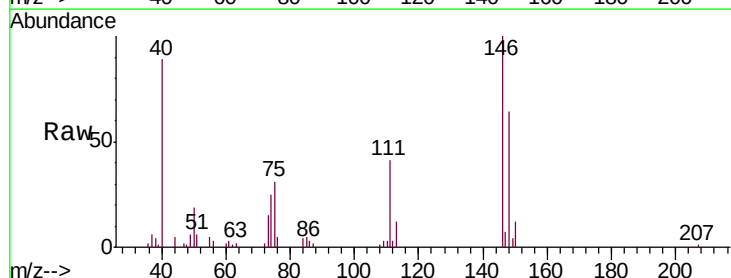
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09D6DL

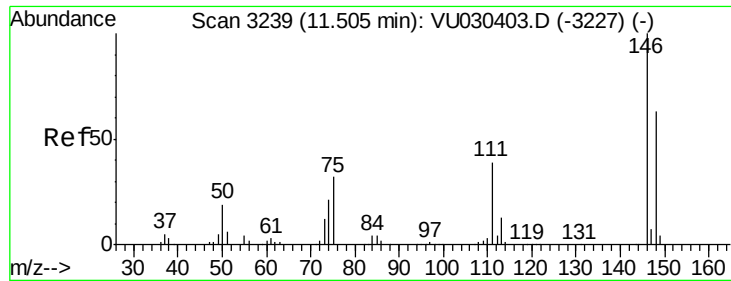
Tgt Ion: 75 Resp: 7682  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.4 38.2#



#62  
 1,3-Dichlorobenzene  
 Concen: 3.914 ug/L  
 RT: 11.42 min Scan# 3212  
 Delta R.T. 0.00 min  
 Lab File: VU030425.D  
 Acq: 26 Mar 2019 00:13

Tgt Ion: 146 Resp: 23111  
 Ion Ratio Lower Upper  
 146 100  
 111 40.5 29.2 54.2  
 148 63.6 44.4 82.4

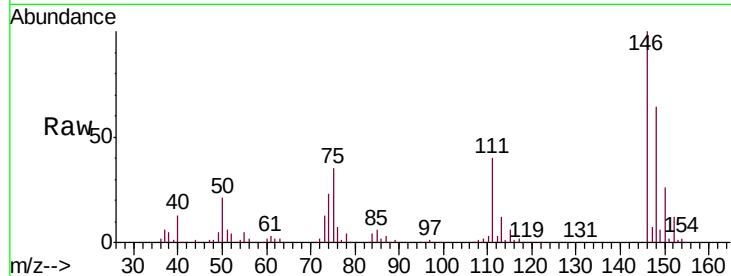




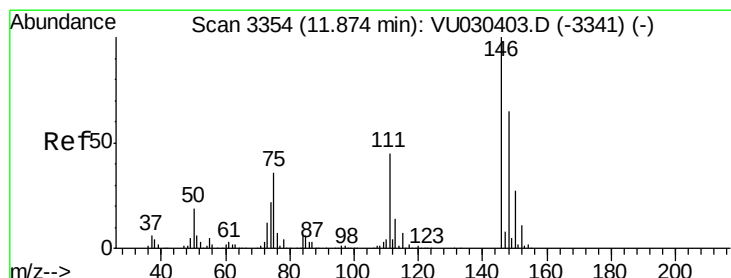
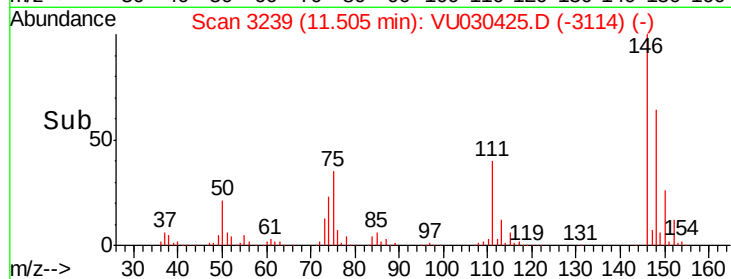
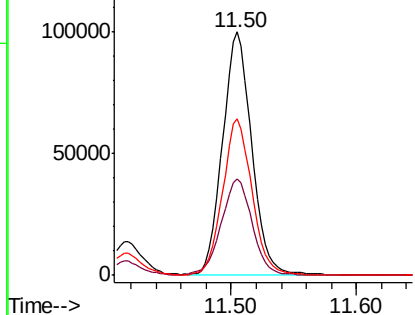
#63  
 1,4-Dichlorobenzene  
 Concen: 26.565 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. 0.00 min  
 Lab File: VU030425.D  
 Acq: 26 Mar 2019 00:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09D6DL

Tgt Ion:146 Resp: 161488  
 Ion Ratio Lower Upper  
 146 100  
 111 39.5 28.7 53.3  
 148 64.1 44.3 82.3

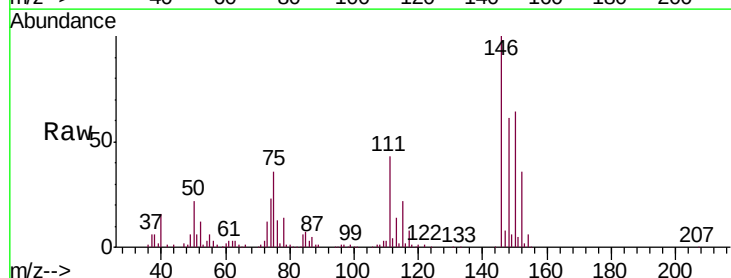


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

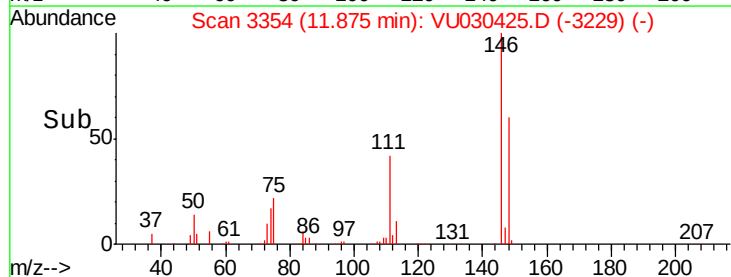
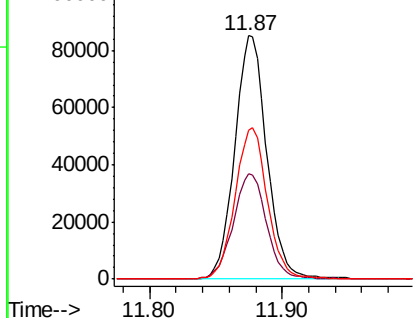


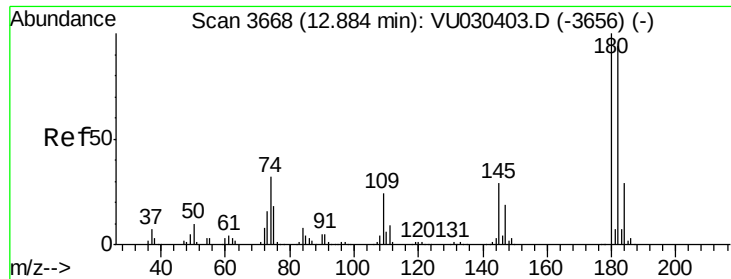
#65  
 1,2-Dichlorobenzene  
 Concen: 23.907 ug/L  
 RT: 11.87 min Scan# 3354  
 Delta R.T. 0.00 min  
 Lab File: VU030425.D  
 Acq: 26 Mar 2019 00:13

Tgt Ion:146 Resp: 142744  
 Ion Ratio Lower Upper  
 146 100  
 111 43.1 34.9 52.3  
 148 61.0 51.2 76.8



Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

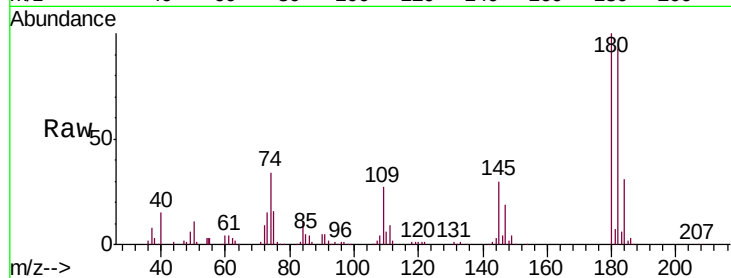




#67  
 1,3,5-Trichlorobenzene  
 Concen: 32.017 ug/L  
 RT: 13.50 min Scan# 3860  
 Delta R.T. 0.62 min  
 Lab File: VU030425.D  
 Acq: 26 Mar 2019 00:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09D6DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 75.9  | 113.9 |
| 184     | 30.0  | 24.1  | 36.1  |
| 145     | 29.3  | 23.8  | 35.8  |



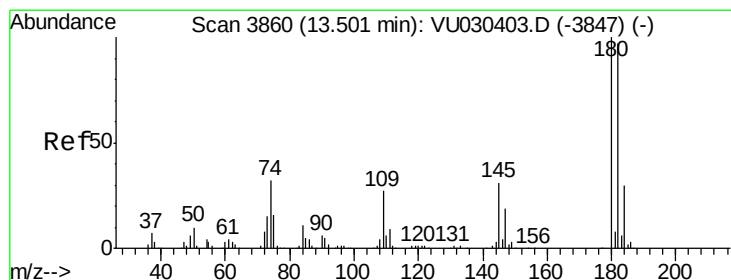
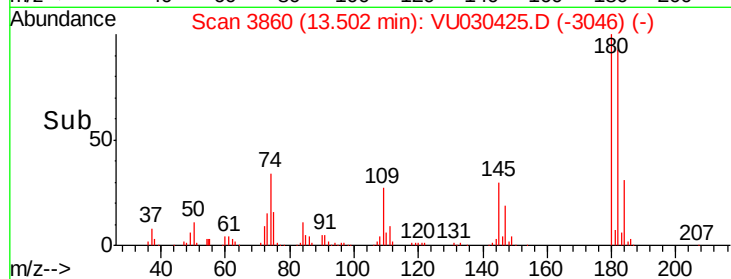
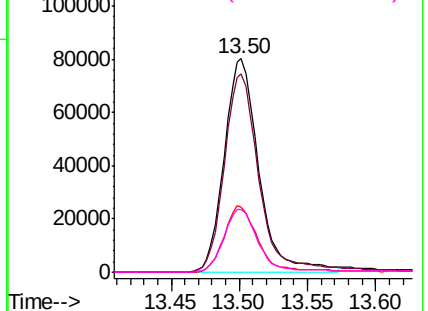
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

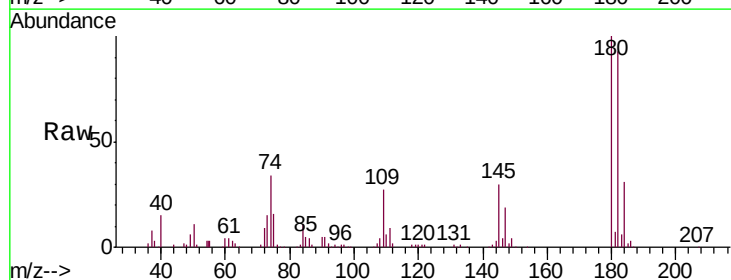
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 36.849 ug/L  
 RT: 13.50 min Scan# 3860  
 Delta R.T. 0.00 min  
 Lab File: VU030425.D  
 Acq: 26 Mar 2019 00:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 76.1  | 114.1 |
| 145     | 29.3  | 24.5  | 36.7  |

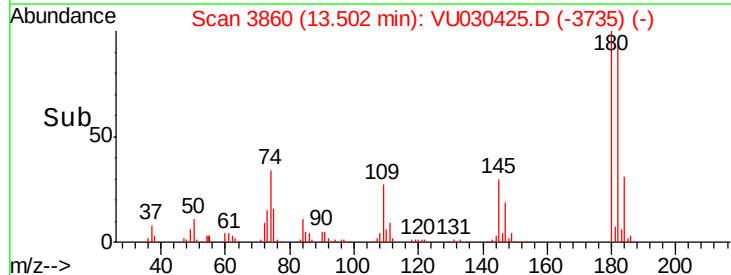
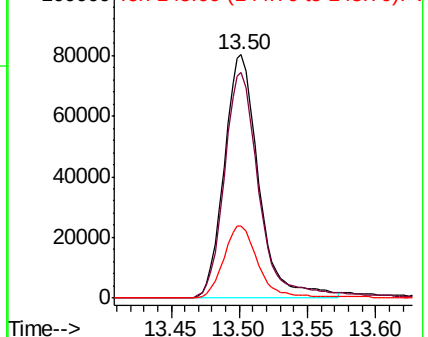


Abundance

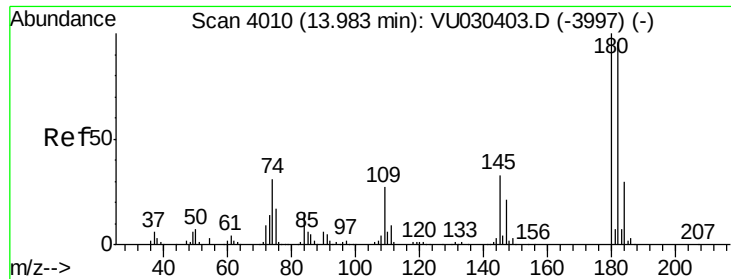
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V







#70  
 1,2,3-Trichlorobenzene  
 Concen: 14.373 ug/L  
 RT: 13.99 min Scan# 4011  
 Delta R.T. 0.00 min  
 Lab File: VU030425.D  
 Acq: 26 Mar 2019 00:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09D6DL

| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 58294 |       |       |
| 182     | 89.0  | 77.4  | 116.2 |
| 145     | 31.4  | 25.9  | 38.9  |

