

Data File : VU030486.D  
Acq On : 27 Mar 2019 16:23  
Operator : JC/SP  
Sample : VU0327WBL02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK60

Quant Time: Mar 28 02:47:50 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 28 02:45:06 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 388236   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 368224   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 151622   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 157180   | 50.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 100.62% |
| 7) Chloroethane-d5             | 1.68    | 69    | 135021   | 54.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 109.04% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 229801   | 38.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.54%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 313305   | 106.67   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.67% |
| 24) Chloroform-d               | 4.65    | 84    | 281438   | 52.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.56% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 191099   | 54.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 108.50% |
| 32) Benzene-d6                 | 5.34    | 84    | 559681   | 53.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.00% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 203144   | 56.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 112.46% |
| 41) Toluene-d8                 | 7.56    | 98    | 480877   | 50.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.42% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 86137    | 50.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.40% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 205152   | 104.79   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.79% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 271712   | 52.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 105.12% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 162583   | 53.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.04% |

#### Target Compounds

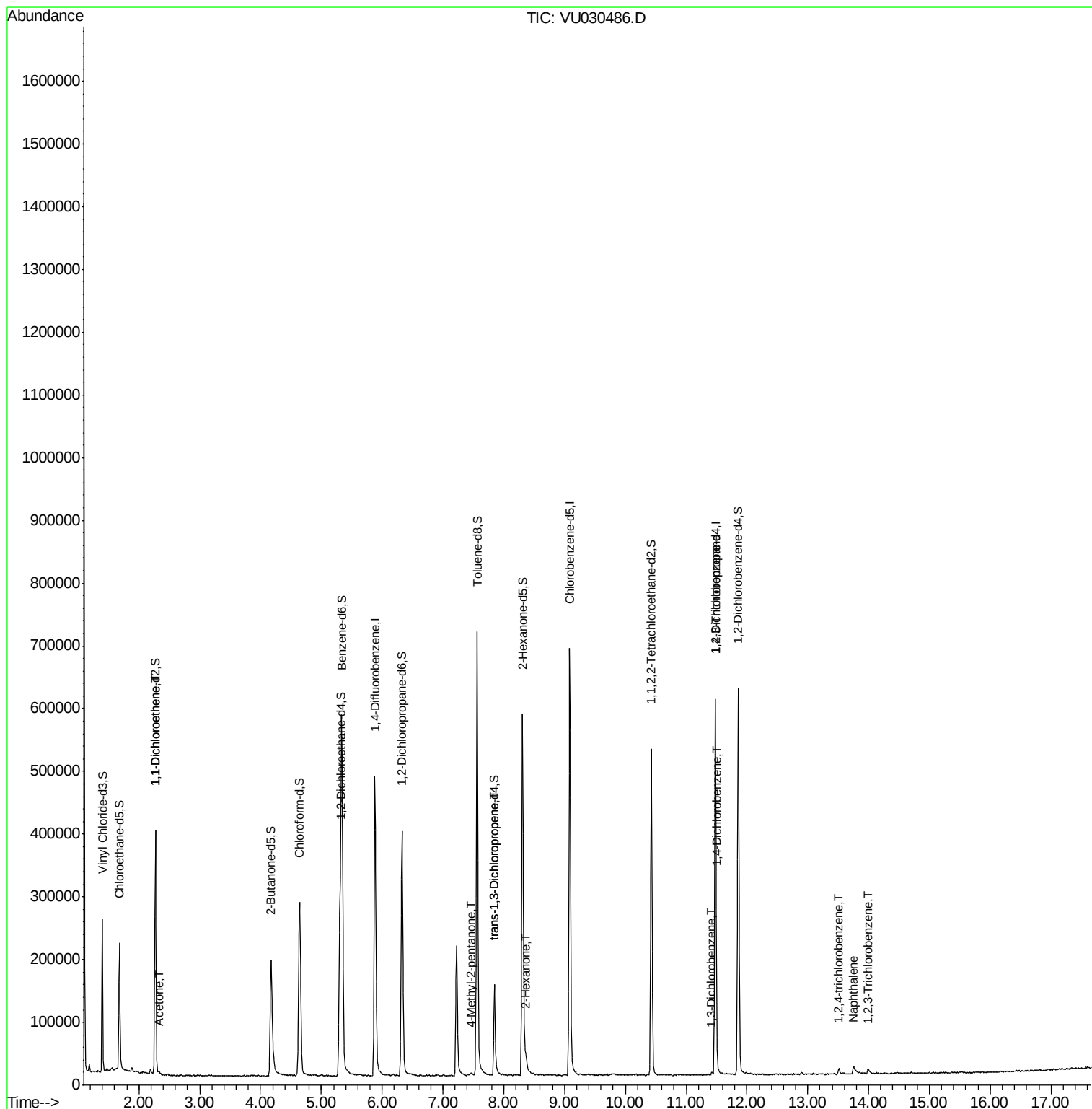
|                               |       |     |       |       | Qvalue |    |
|-------------------------------|-------|-----|-------|-------|--------|----|
| 12) 1,1-Dichloroethene        | 2.27  | 96  | 1945  | 0.700 | ug/L # | 1  |
| 13) Acetone                   | 2.32  | 43  | 1578  | 0.531 | ug/L   | 57 |
| 40) 4-Methyl-2-pentanone      | 7.47  | 43  | 3302  | 0.553 | ug/L # | 94 |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 4280  | 0.951 | ug/L   | 91 |
| 48) 2-Hexanone                | 8.37  | 43  | 13226 | 2.701 | ug/L # | 71 |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 22224 | 5.133 | ug/L   | 98 |
| 62) 1,3-Dichlorobenzene       | 11.42 | 146 | 2466  | 0.497 | ug/L # | 76 |
| 63) 1,4-Dichlorobenzene       | 11.50 | 146 | 4345  | 0.851 | ug/L   | 86 |
| 68) 1,2,4-trichlorobenzene    | 13.51 | 180 | 3562  | 1.104 | ug/L   | 96 |
| 69) Naphthalene               | 13.76 | 128 | 14285 | 1.246 | ug/L # | 95 |
| 70) 1,2,3-Trichlorobenzene    | 13.99 | 180 | 3064  | 0.900 | ug/L # | 91 |

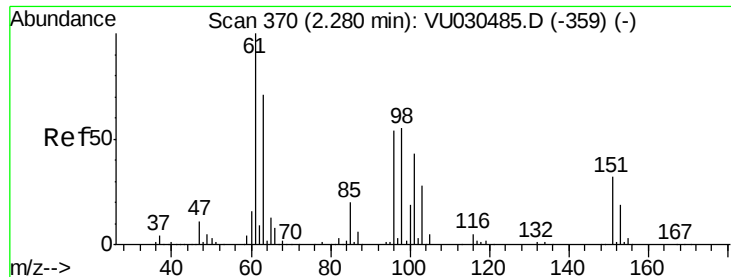
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Thu Mar 28 02:45:06 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.700 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU030486.D

Acq: 27 Mar 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

VBLK60

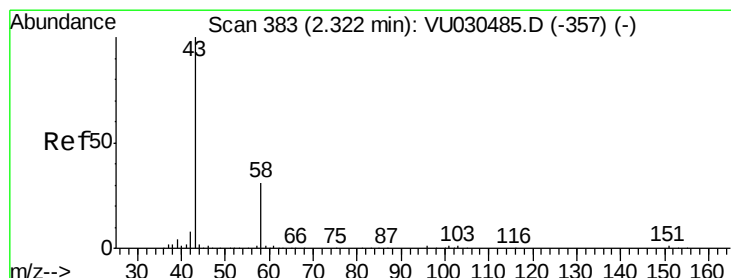
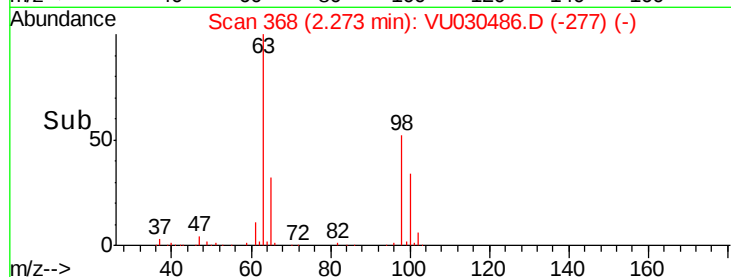
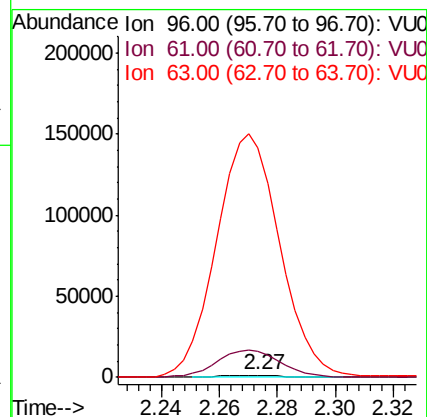
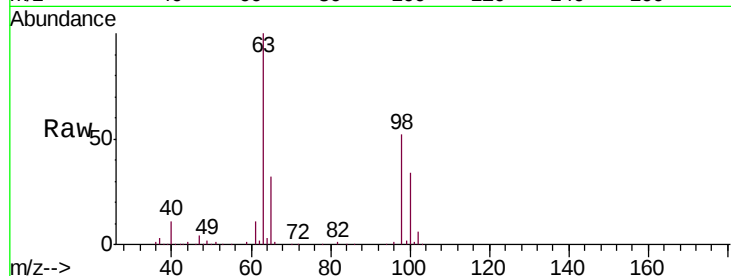
Tgt Ion: 96 Resp: 1945

Ion Ratio Lower Upper

96 100

61 1373.6 131.0 243.4#

63 12082.8 92.4 171.6#



#13

Acetone

Concen: 0.531 ug/L

RT: 2.32 min Scan# 384

Delta R.T. 0.00 min

Lab File: VU030486.D

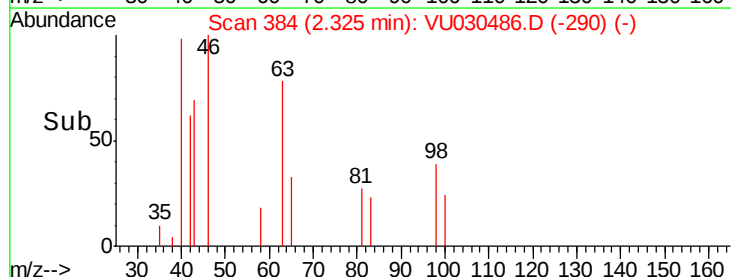
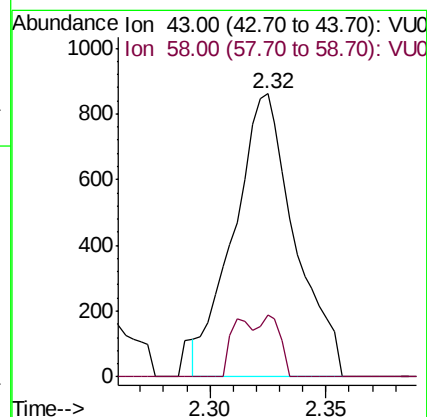
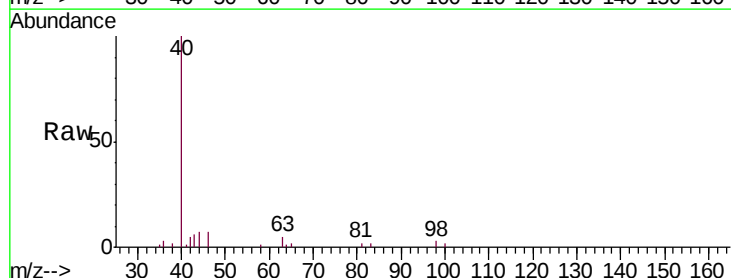
Acq: 27 Mar 2019 16:23

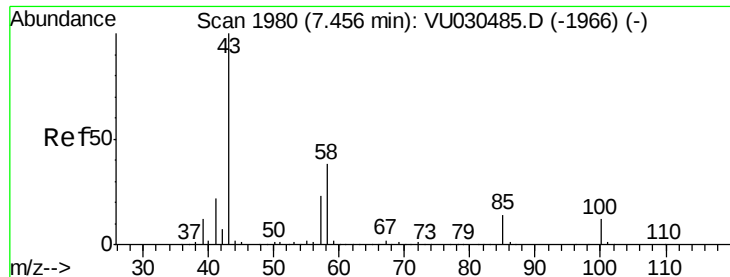
Tgt Ion: 43 Resp: 1578

Ion Ratio Lower Upper

43 100

58 7.7 0.0 62.8

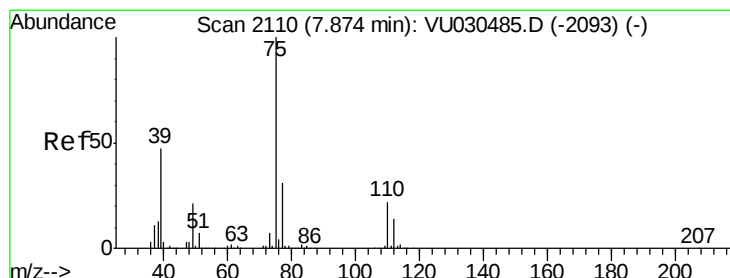
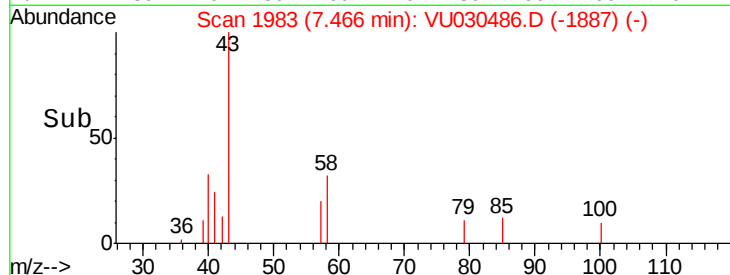
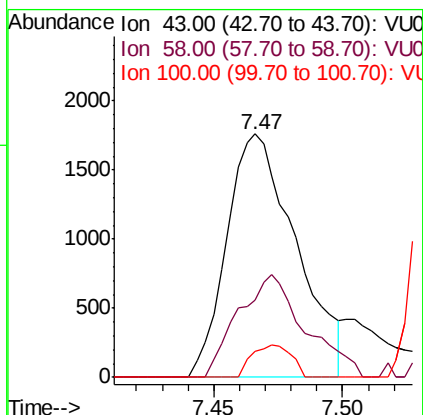
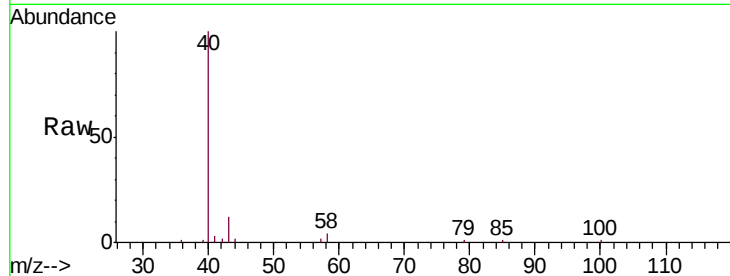




#40  
4-Methyl-2-pentanone  
Concen: 0.553 ug/L  
RT: 7.47 min Scan# 1983  
Delta R.T. 0.01 min  
Lab File: VU030486.D  
Acq: 27 Mar 2019 16:23

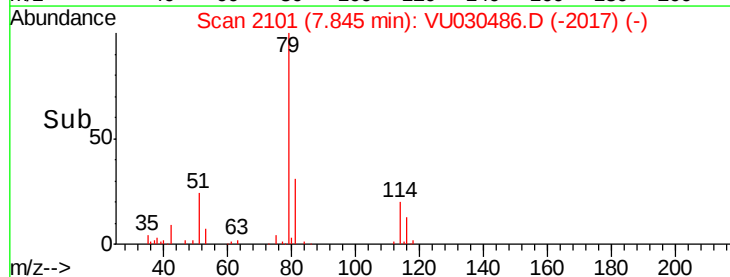
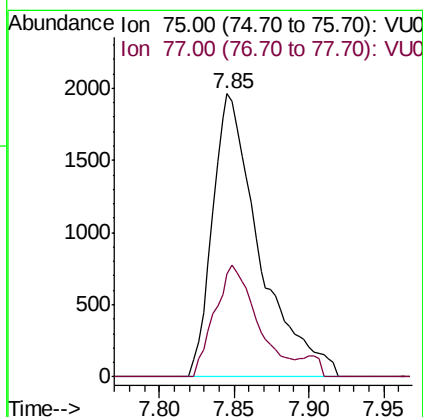
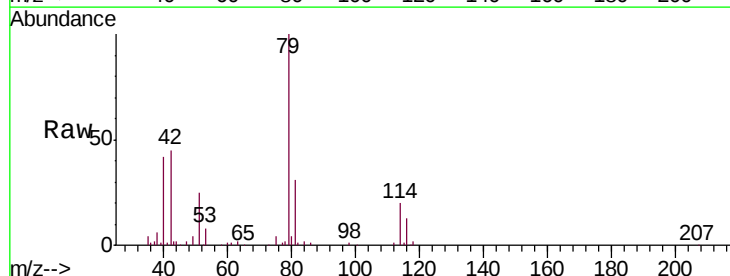
Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK60

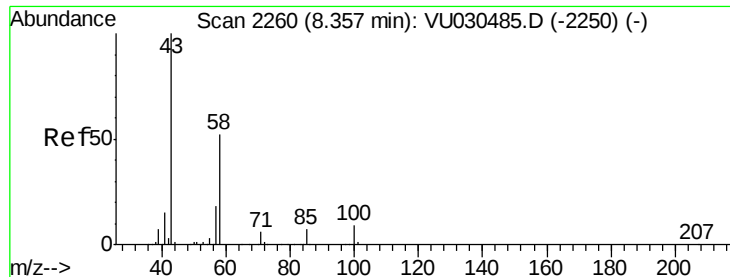
Tgt Ion: 43 Resp: 3302  
Ion Ratio Lower Upper  
43 100  
58 40.9 30.6 45.8  
100 7.6 9.5 14.3#



#44  
trans-1,3-Dichloropropene  
Concen: 0.951 ug/L  
RT: 7.85 min Scan# 2101  
Delta R.T. -0.03 min  
Lab File: VU030486.D  
Acq: 27 Mar 2019 16:23

Tgt Ion: 75 Resp: 4280  
Ion Ratio Lower Upper  
75 100  
77 36.4 22.0 40.8

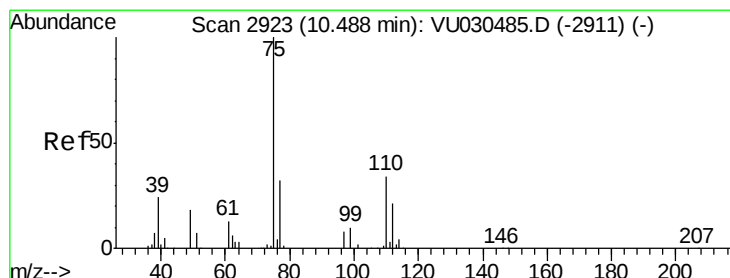
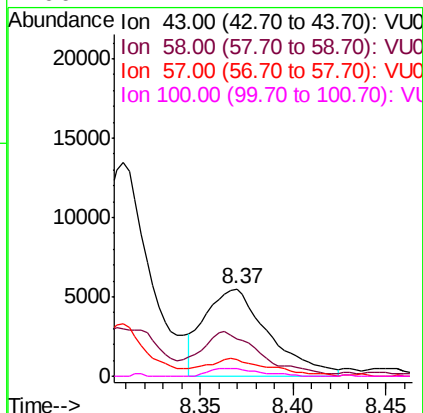
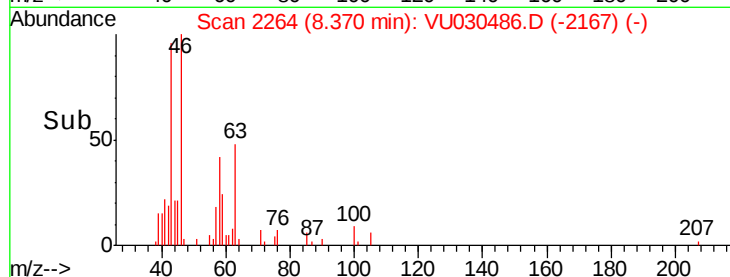
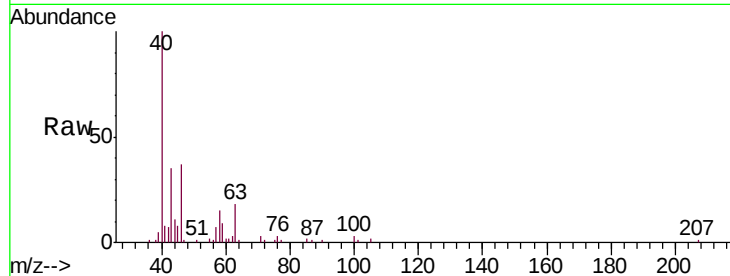




#48  
 2-Hexanone  
 Concen: 2.701 ug/L  
 RT: 8.37 min Scan# 2264  
 Delta R.T. 0.01 min  
 Lab File: VU030486.D  
 Acq: 27 Mar 2019 16:23

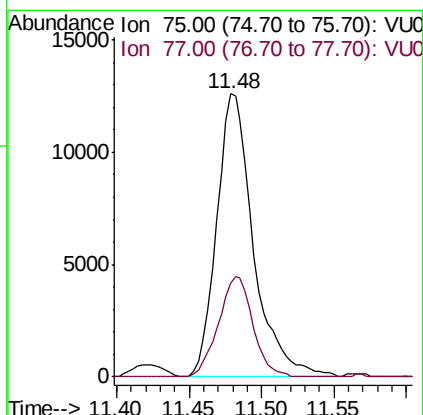
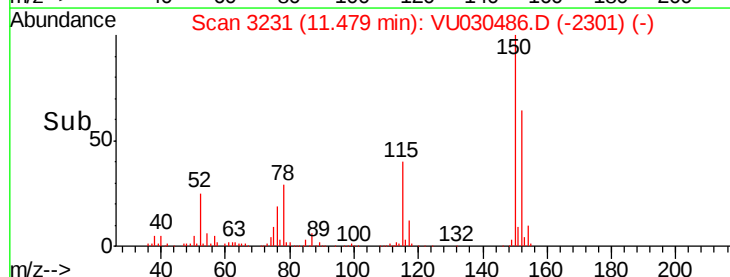
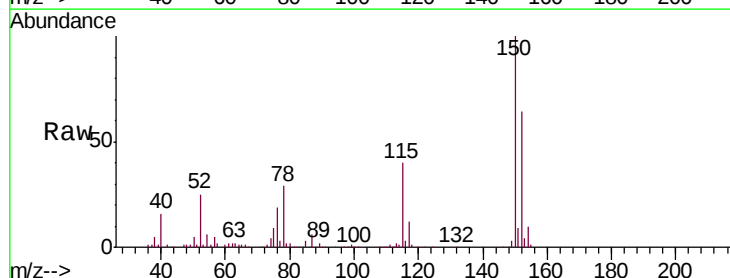
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VBLK60

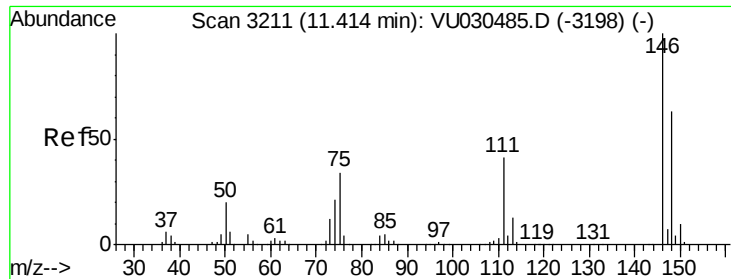
Tgt Ion: 43 Resp: 13226  
 Ion Ratio Lower Upper  
 43 100  
 58 27.9 42.5 63.7#  
 57 8.0 15.0 22.6#  
 100 7.1 7.4 11.2#



#59  
 1,2,3-Trichloropropane  
 Concen: 5.133 ug/L  
 RT: 11.48 min Scan# 3231  
 Delta R.T. 0.99 min  
 Lab File: VU030486.D  
 Acq: 27 Mar 2019 16:23

Tgt Ion: 75 Resp: 22224  
 Ion Ratio Lower Upper  
 75 100  
 77 32.9 25.4 38.2





#62

1,3-Dichlorobenzene

Concen: 0.497 ug/L

RT: 11.42 min Scan# 3214

Delta R.T. 0.01 min

Lab File: VU030486.D

Acq: 27 Mar 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

VBLK60

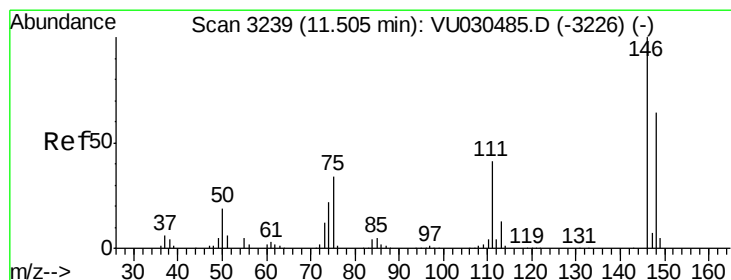
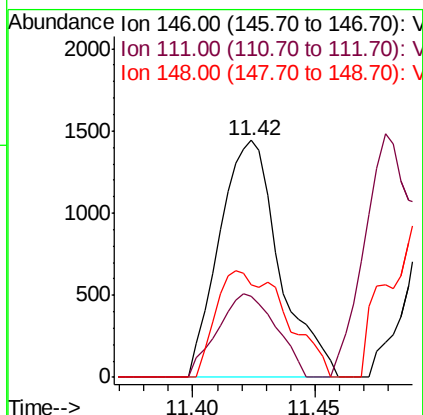
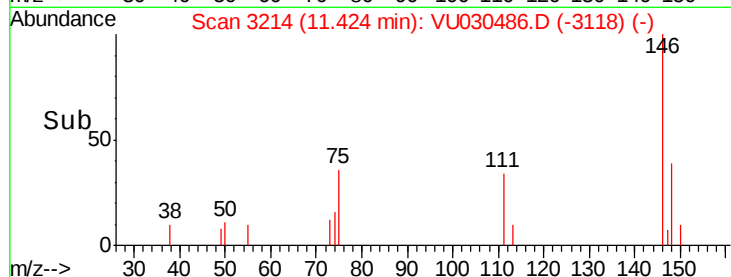
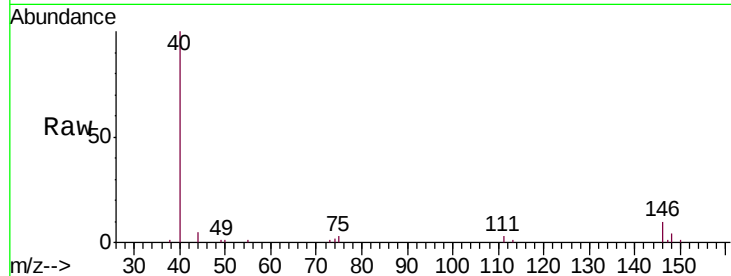
Tgt Ion:146 Resp: 2466

Ion Ratio Lower Upper

146 100

111 34.3 29.2 54.2

148 39.0 44.4 82.4#



#63

1,4-Dichlorobenzene

Concen: 0.851 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030486.D

Acq: 27 Mar 2019 16:23

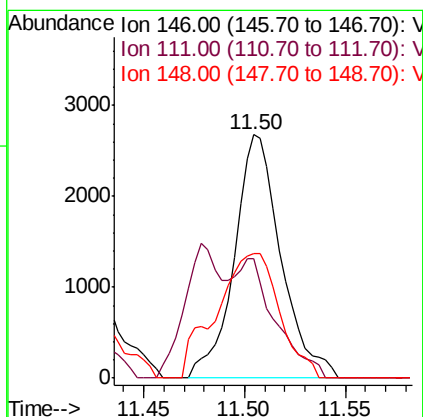
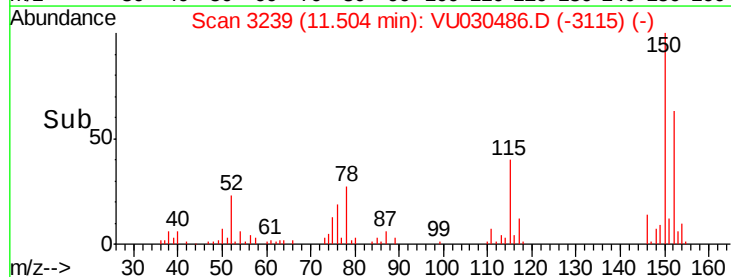
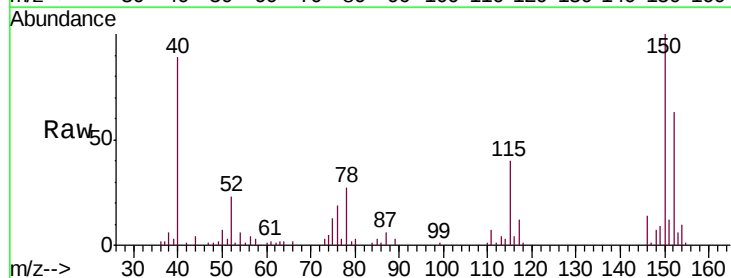
Tgt Ion:146 Resp: 4345

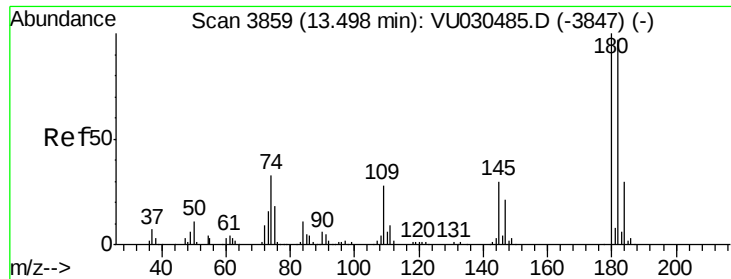
Ion Ratio Lower Upper

146 100

111 48.9 28.7 53.3

148 51.2 44.3 82.3

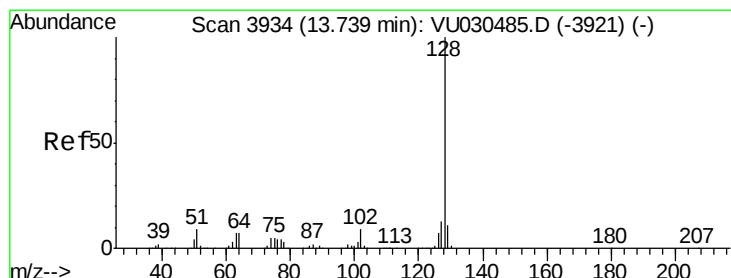
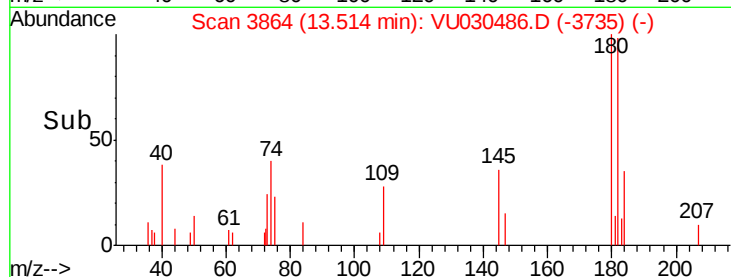
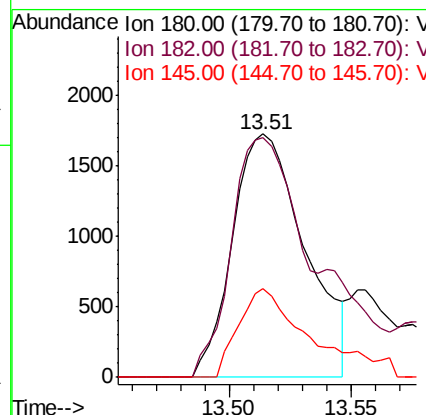
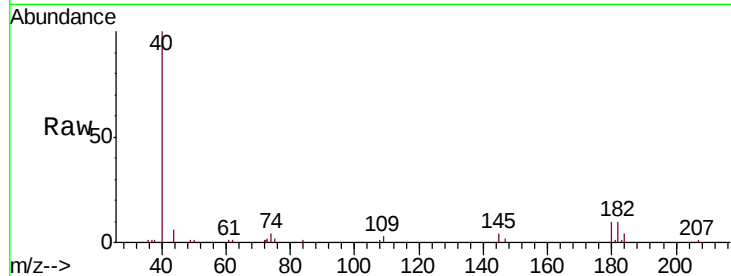




#68  
 1,2,4-trichlorobenzene  
 Concen: 1.104 ug/L  
 RT: 13.51 min Scan# 3864  
 Delta R.T. 0.02 min  
 Lab File: VU030486.D  
 Acq: 27 Mar 2019 16:23

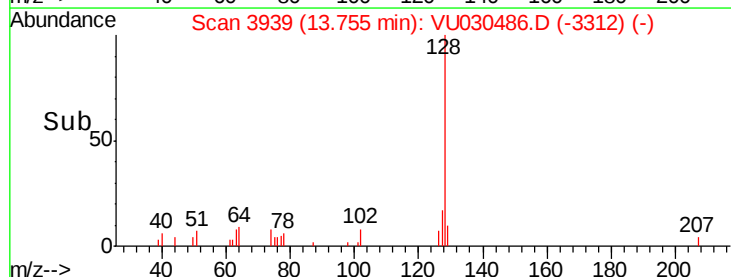
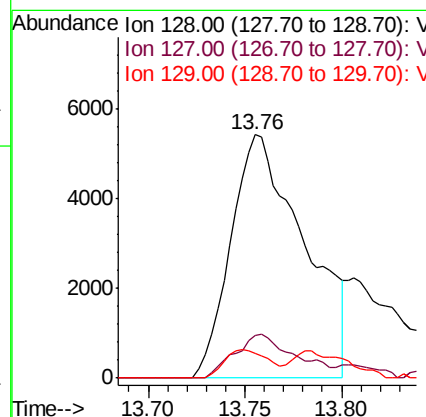
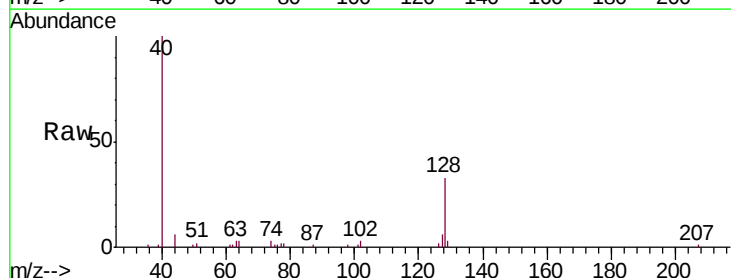
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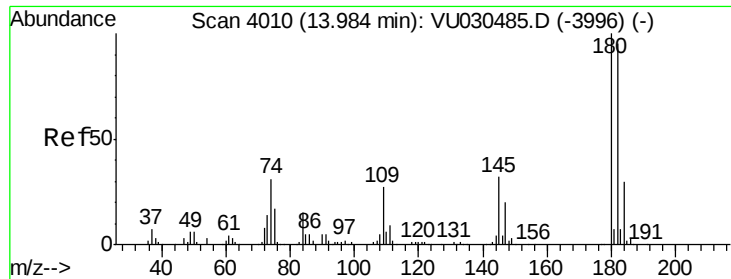
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 Ion Ratio Lower Upper  
 180 100  
 182 90.7 76.1 114.1  
 145 29.4 24.5 36.7



#69  
 Naphthalene  
 Concen: 1.246 ug/L  
 RT: 13.76 min Scan# 3939  
 Delta R.T. 0.02 min  
 Lab File: VU030486.D  
 Acq: 27 Mar 2019 16:23

Tgt Ion:128 Resp: 14285  
 Ion Ratio Lower Upper  
 128 100  
 127 13.3 10.4 15.6  
 129 7.0 8.4 12.6#





#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.900 ug/L  
 RT: 13.99 min Scan# 4012  
 Delta R.T. 0.01 min  
 Lab File: VU030486.D  
 Acq: 27 Mar 2019 16:23

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VBLK60

| Tgt Ion | Resp | Ion Ratio | Lower | Upper |
|---------|------|-----------|-------|-------|
| 180     | 3064 | 100       |       |       |
| 182     |      | 98.6      | 77.4  | 116.2 |
| 145     |      | 15.5      | 25.9  | 38.9# |

