

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060820\  
 Data File : VV016663.D  
 Acq On : 08 Jun 2020 16:37  
 Operator : SY/MD  
 Sample : L2861-18  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9E63

Quant Time: Jun 09 01:08:43 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jun 09 01:02:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 371470   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 352309   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 175484   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

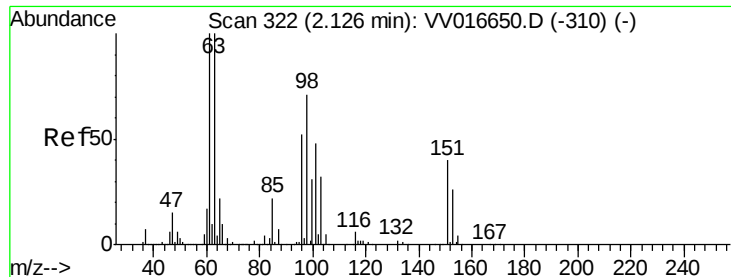
|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 114463   | 43.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 87.34%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 81797    | 52.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 104.02% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 155524   | 35.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 70.66%  |
| 21) 2-Butanone-d5              | 3.89    | 46    | 190628   | 98.26    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.26%  |
| 24) Chloroform-d               | 4.37    | 84    | 244559   | 45.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.76%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 172736   | 47.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.30%  |
| 32) Benzene-d6                 | 5.07    | 84    | 489286   | 48.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.36%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 153422   | 48.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.92%  |
| 41) Toluene-d8                 | 7.34    | 98    | 441776   | 47.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.80%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 73040    | 44.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.60%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 132174   | 95.77    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.77%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 208362   | 49.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.44%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 186975   | 49.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.86%  |

## Target Compounds

|                                |       |     |        |              | Ovalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 1633   | 0.827 ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.12  | 96  | 1276   | 0.692 ug/L # | 1      |
| 13) Acetone                    | 2.17  | 43  | 4333   | 3.390 ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.21  | 63  | 3982   | 0.842 ug/L   | 95     |
| 27) 1,2-Dichloroethane         | 5.15  | 62  | 262691 | 64.440 ug/L  | 98     |
| 37) 1,2-Dichloropropane        | 6.20  | 63  | 3907   | 1.441 ug/L # | 97     |
| 48) 2-Hexanone                 | 8.16  | 43  | 8214   | 2.758 ug/L # | 40     |
| 58) 1,1,2,2-Tetrachloroethane  | 10.25 | 83  | 5072   | 1.265 ug/L # | 79     |

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





#10

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

Concen: 0.827 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016663.D

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Instrument :

MSVOA\_V

ClientSampleId :

F9E63

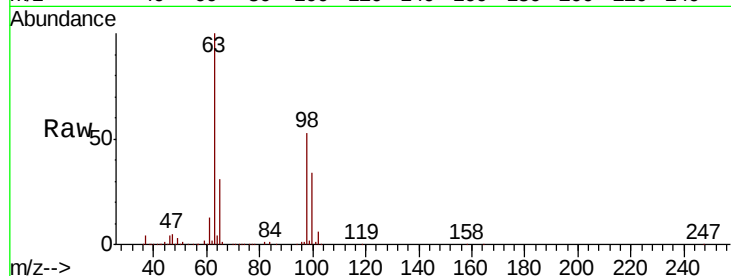
Tot Ion:101 Resp: 1633

Ion Ratio Lower Upper

101 100

85 7.1 35.5 53.3#

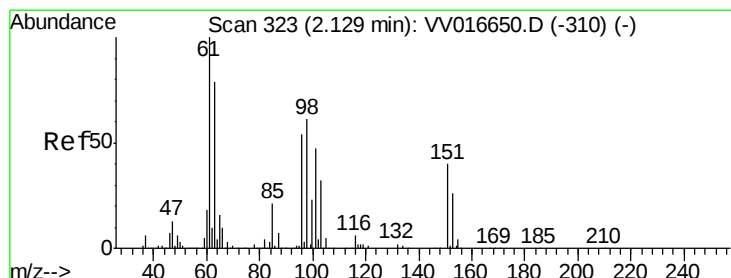
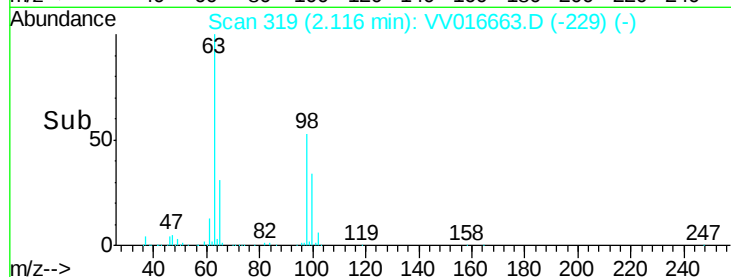
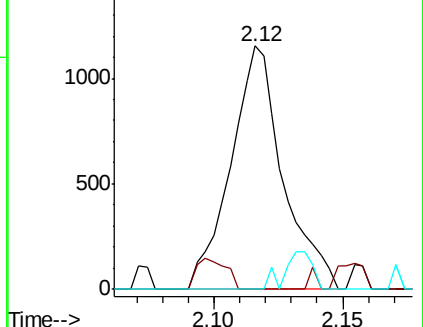
151 1.2 63.9 95.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.692 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016663.D

Acq: 08 Jun 2020 16:37

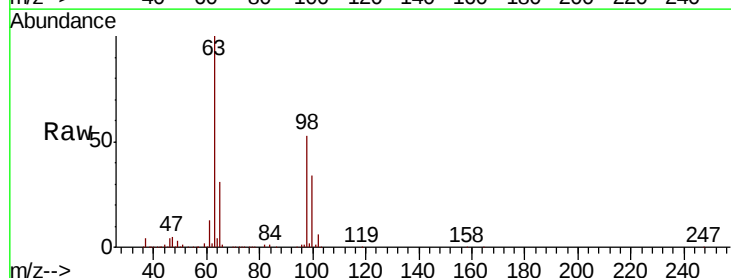
Tgt Ion: 96 Resp: 1276

Ion Ratio Lower Upper

96 100

61 1576.4 130.4 242.2#

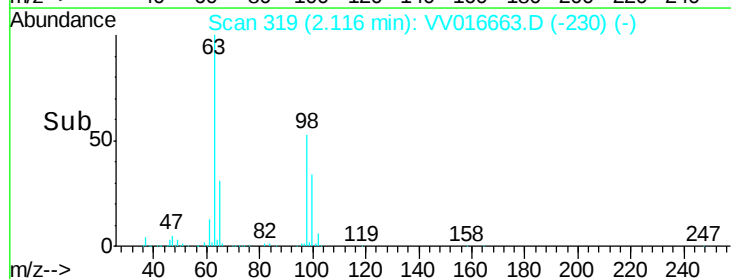
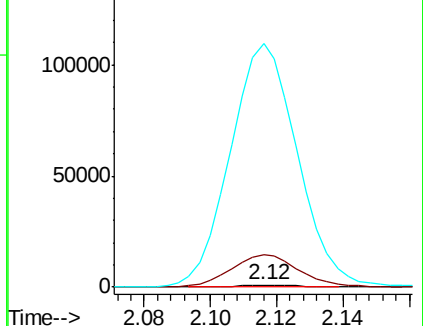
63 11921.7 103.3 191.9#

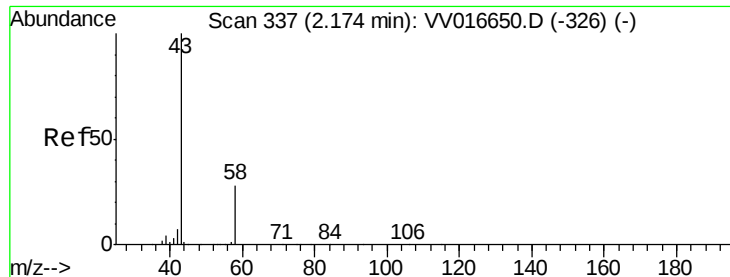


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 3.390 ug/L

RT: 2.17 min Scan# 336

Delta R.T. -0.00 min

Lab File: VV016663.D

Acq: 08 Jun 2020 16:37

Instrument :

MSVOA\_V

ClientSampleId :

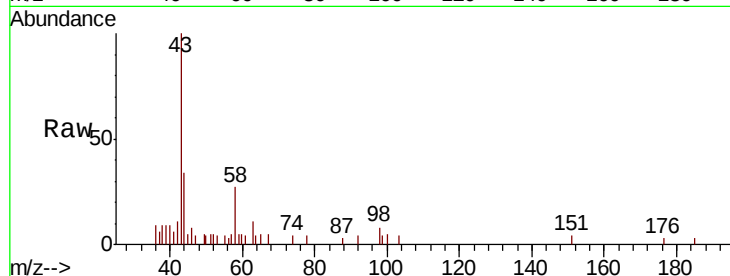
F9E63

Tot Ion: 43 Resp: 4333

Ion Ratio Lower Upper

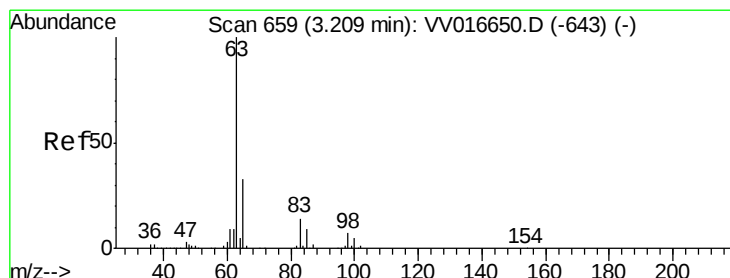
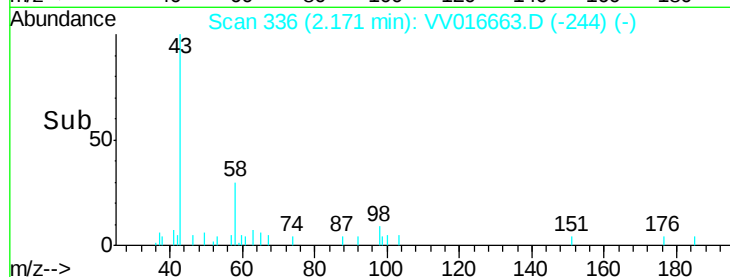
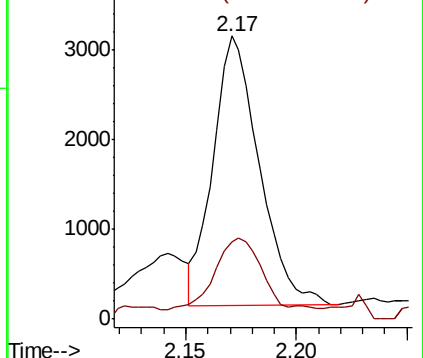
43 100

58 27.0 0.0 55.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#19

1,1-Dichloroethane

Concen: 0.842 ug/L

RT: 3.21 min Scan# 658

Delta R.T. -0.00 min

Lab File: VV016663.D

Acq: 08 Jun 2020 16:37

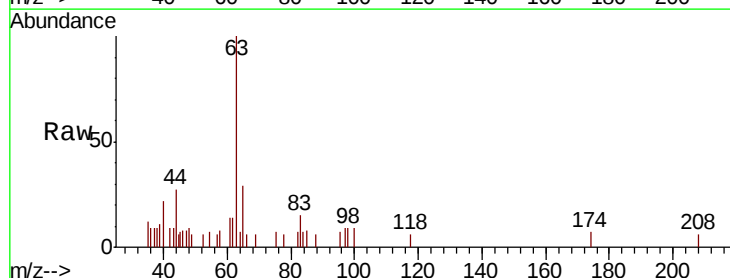
Tgt Ion: 63 Resp: 3982

Ion Ratio Lower Upper

63 100

65 29.5 23.2 43.0

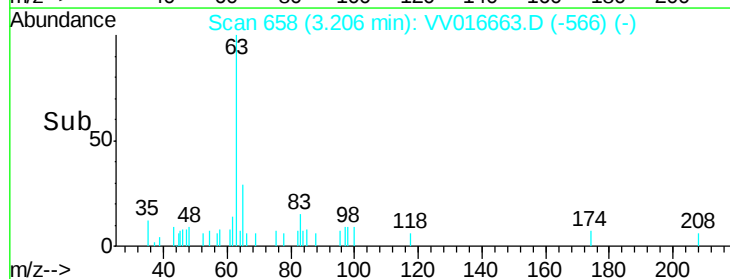
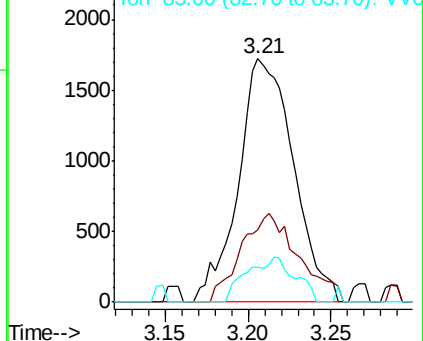
83 14.6 10.0 18.6

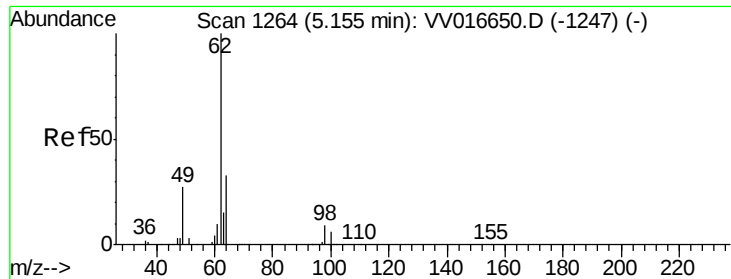


Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0





#27

1,2-Dichloroethane

Concen: 64.440 ug/L

RT: 5.15 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VV016663.D

Acq: 08 Jun 2020 16:37

Instrument :

MSVOA\_V

ClientSampleId :

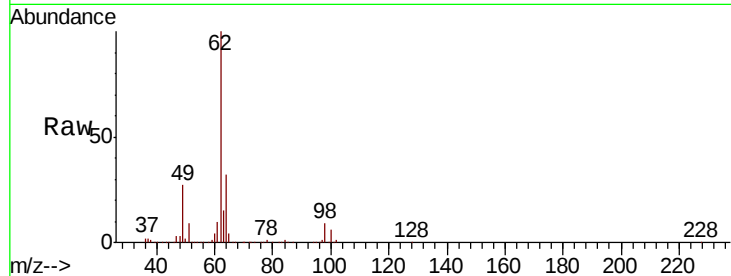
F9E63

Tot Ion: 62 Resp: 262691

Ion Ratio Lower Upper

62 100

98 8.7 7.4 11.2



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

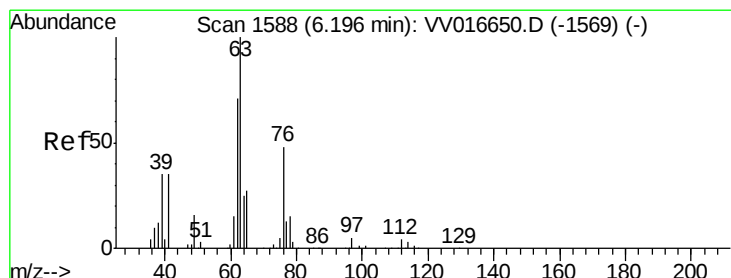
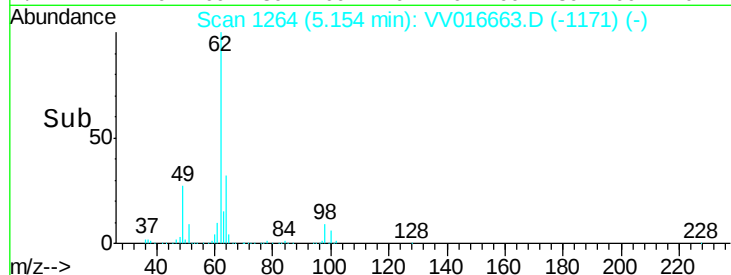
5.15

100000

50000

0

Time-->



#37

1,2-Dichloropropane

Concen: 1.441 ug/L

RT: 6.20 min Scan# 1590

Delta R.T. 0.01 min

Lab File: VV016663.D

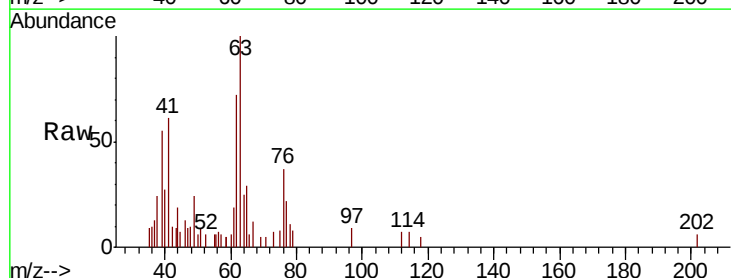
Acq: 08 Jun 2020 16:37

Tgt Ion: 63 Resp: 3907

Ion Ratio Lower Upper

63 100

112 5.7 3.8 5.6#



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V

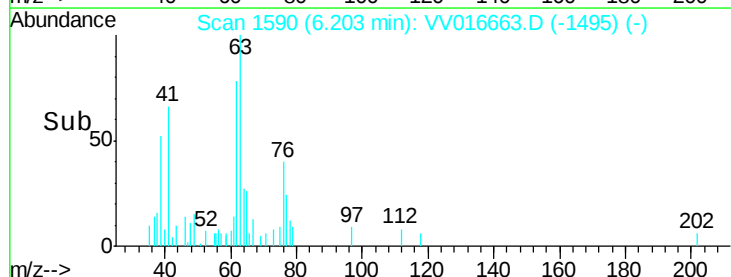
3000

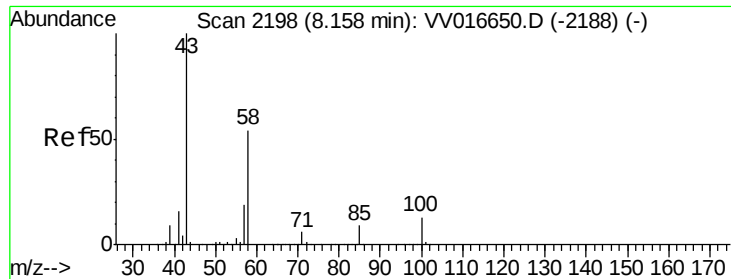
2000

1000

0

Time-->

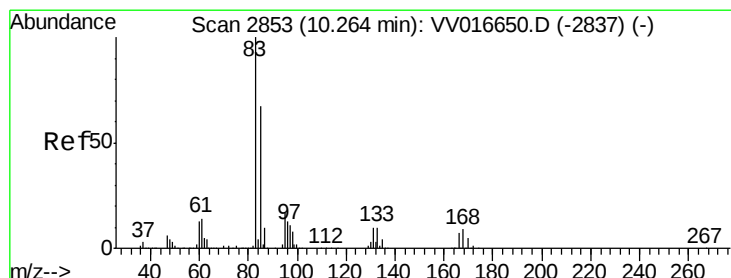
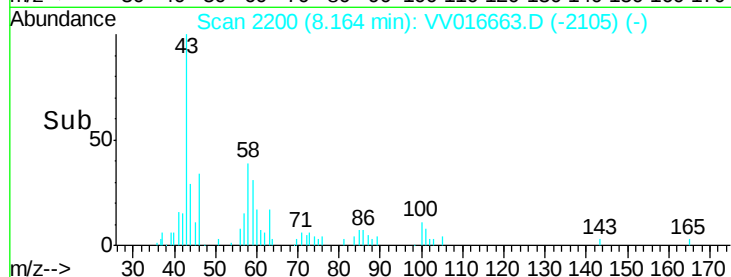
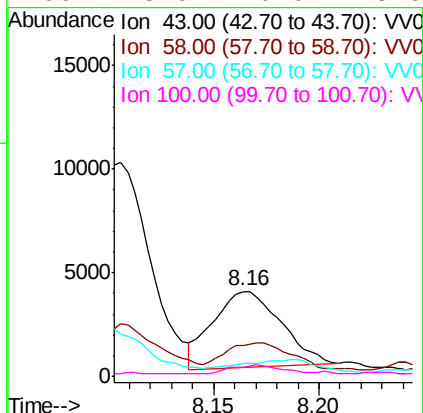
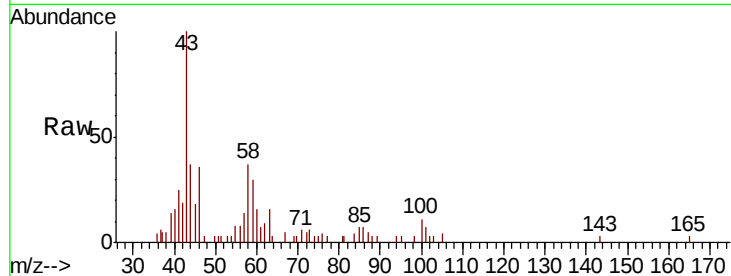




#48  
2-Hexanone  
Concen: 2.758 ug/L  
RT: 8.16 min Scan# 2200  
Delta R.T. 0.01 min  
Lab File: VV016663.D  
Acq: 08 Jun 2020 16:37

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9E63

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 8214  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.0   | 43.1  | 64.7# |
| 57       | 0.0   | 15.3  | 22.9# |
| 100      | 3.0   | 10.0  | 15.0# |



#58  
1,1,2,2-Tetrachloroethane  
Concen: 1.265 ug/L  
RT: 10.25 min Scan# 2848  
Delta R.T. -0.02 min  
Lab File: VV016663.D  
Acq: 08 Jun 2020 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 5072  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 60.8  | 46.8  | 86.8  |
| 131      | 51.8  | 7.9   | 11.9# |

