

Data File : VW011378.D  
Acq On : 19 Jul 2019 15:22  
Operator : SY/VA  
Sample : K3863-13  
Misc : 3.46G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
A52F3

Quant Time: Jul 20 00:50:48 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM070219S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jul 20 00:46:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 294204   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 237159   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 84956    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 57765    | 12.86    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 51.44%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 51090    | 16.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 64.84%  |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 113958   | 11.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 47.92%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 75166    | 42.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 84.96%  |
| 24) Chloroform-d               | 7.65   | 84    | 156072   | 19.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 77.40%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 95727    | 19.28    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 77.12%  |
| 29) Benzene-d6                 | 8.27   | 84    | 300654   | 20.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 82.32%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 107506   | 22.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 90.40%  |
| 37) Toluene-d8                 | 10.32  | 98    | 243777   | 18.72    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 74.88%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 36708    | 18.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 72.60%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 49518    | 45.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.78%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 78564    | 19.96    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 79.84%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 60002    | 18.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 73.60%# |

#### Target Compounds

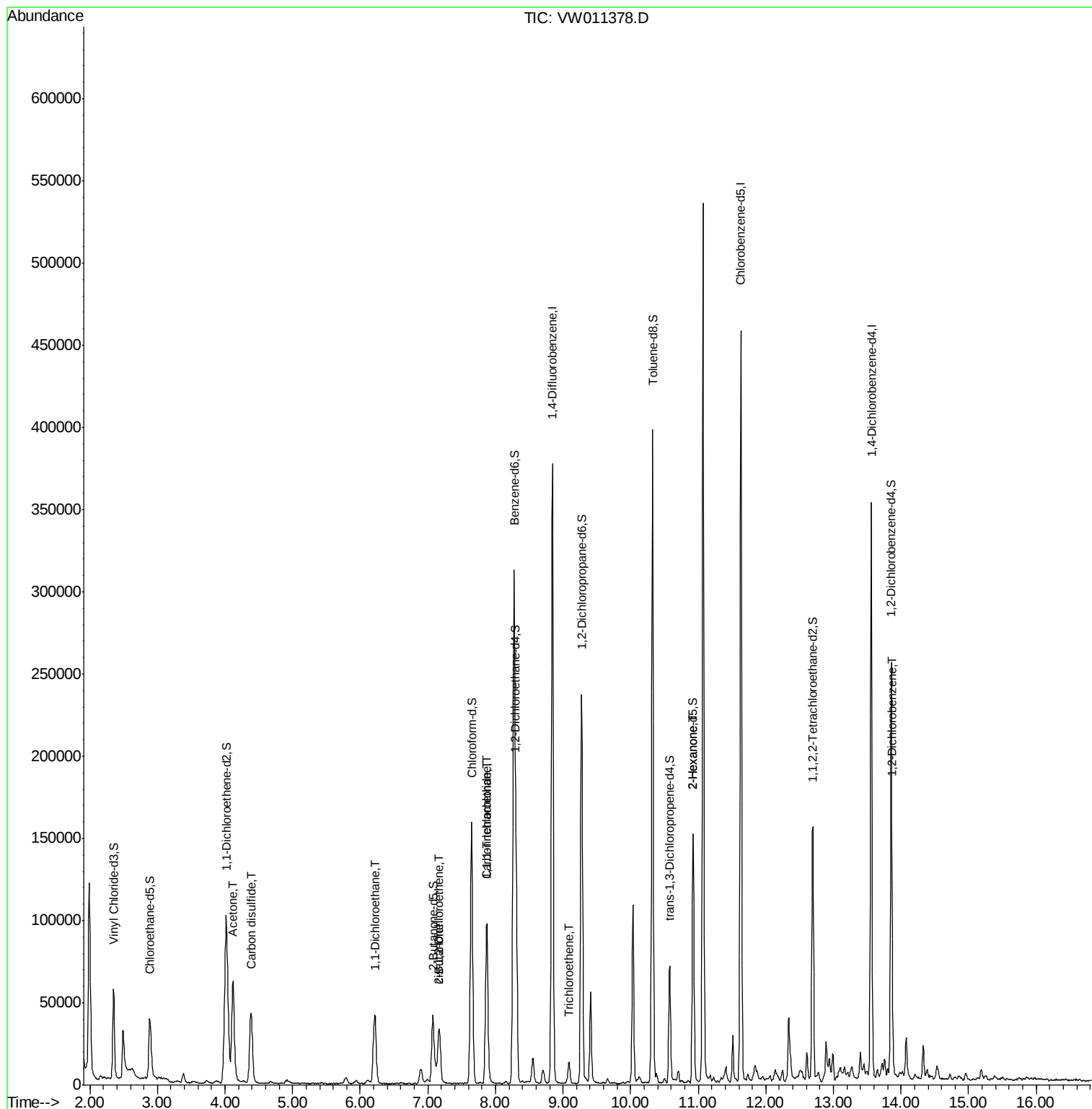
|                            |       |     |        |        | Qvalue    |
|----------------------------|-------|-----|--------|--------|-----------|
| 13) Acetone                | 4.12  | 43  | 108580 | 62.818 | ug/L 100  |
| 14) Carbon disulfide       | 4.39  | 76  | 93811  | 8.482  | ug/L 100  |
| 19) 1,1-Dichloroethane     | 6.21  | 63  | 62539  | 7.885  | ug/L 98   |
| 21) 2-Butanone             | 7.17  | 43  | 14555  | 6.523  | ug/L 81   |
| 22) cis-1,2-Dichloroethene | 7.17  | 96  | 12970  | 3.067  | ug/L 98   |
| 31) 1,1,1-Trichloroethane  | 7.87  | 97  | 76796  | 15.602 | ug/L 99   |
| 32) Carbon tetrachloride   | 7.87  | 117 | 9688   | 2.099  | ug/L 98   |
| 35) Trichloroethene        | 9.09  | 95  | 3941   | 1.054  | ug/L 97   |
| 49) 2-Hexanone             | 10.93 | 43  | 7685   | 2.804  | ug/L # 66 |
| 65) 1,2-Dichlorobenzene    | 13.87 | 146 | 4334   | 0.891  | ug/L # 92 |

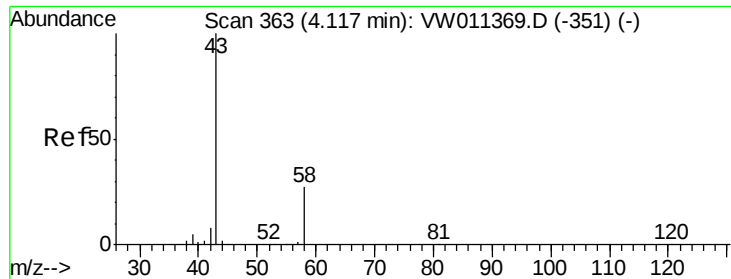
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 62.818 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW011378.D

Acq: 19 Jul 2019 15:22

Instrument :

MSVOA\_W

ClientSampleId :

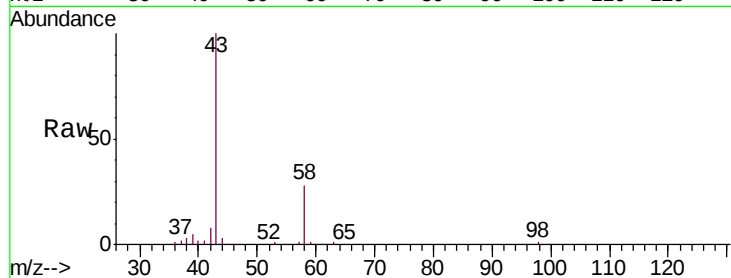
A52F3

Tgt Ion: 43 Resp: 108580

Ion Ratio Lower Upper

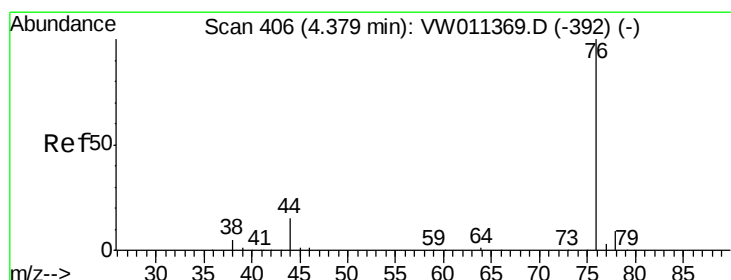
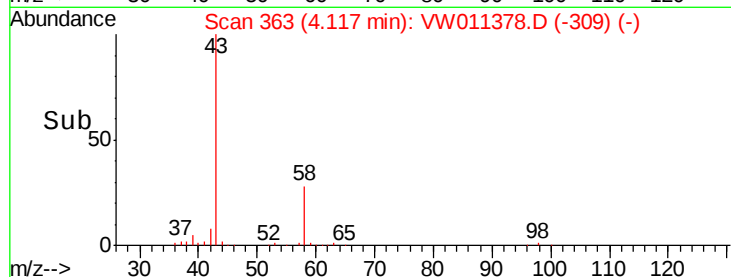
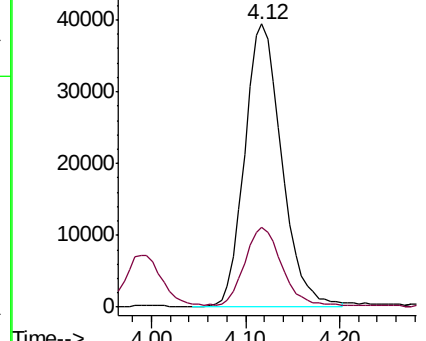
43 100

58 27.7 0.0 55.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 8.482 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW011378.D

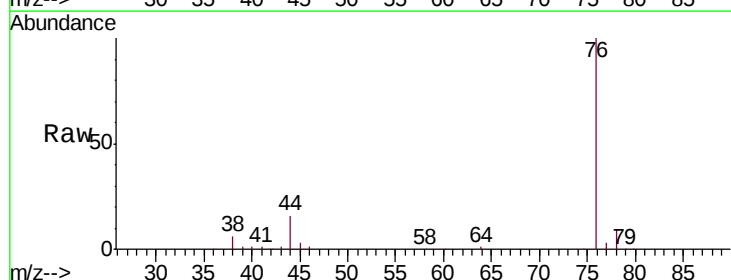
Acq: 19 Jul 2019 15:22

Tgt Ion: 76 Resp: 93811

Ion Ratio Lower Upper

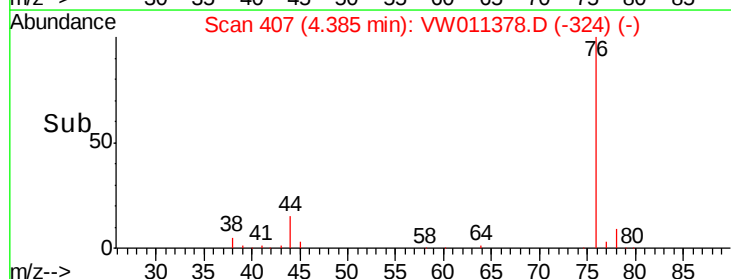
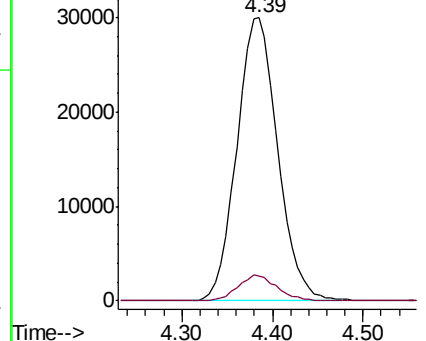
76 100

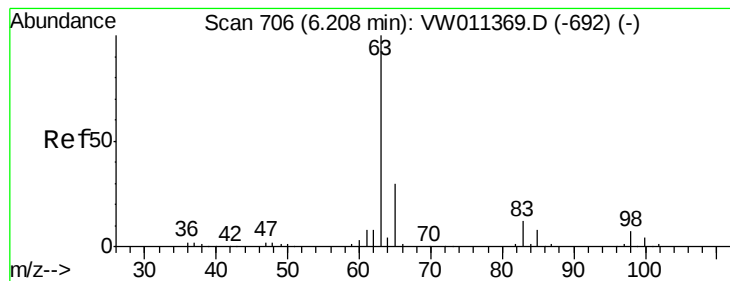
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#19

1,1-Dichloroethane

Concen: 7.885 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW011378.D

Acq: 19 Jul 2019 15:22

Instrument :

MSVOA\_W

ClientSampled :

A52F3

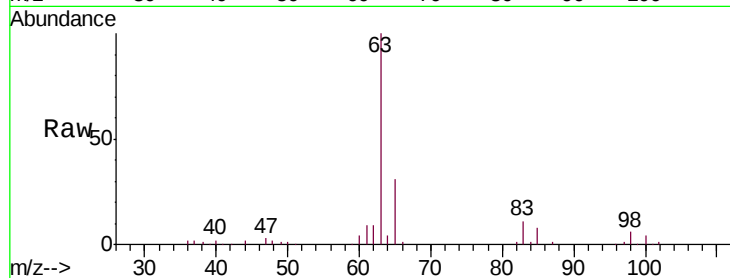
Tgt Ion: 63 Resp: 62539

Ion Ratio Lower Upper

63 100

65 31.3 22.1 41.1

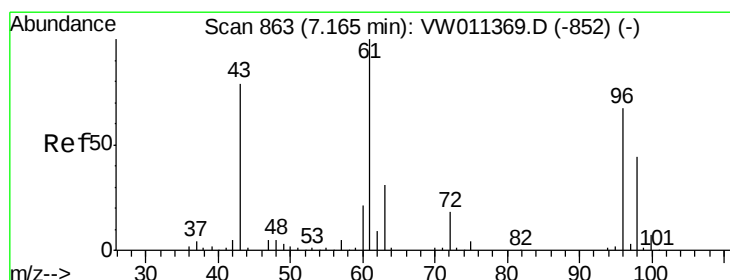
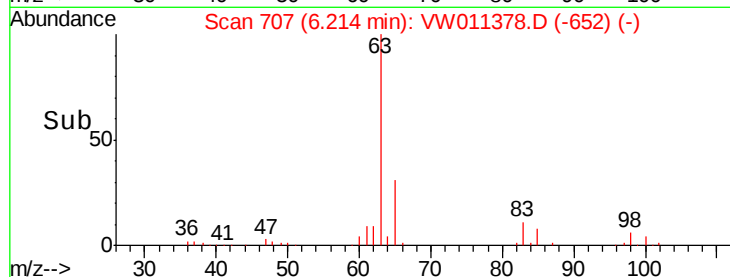
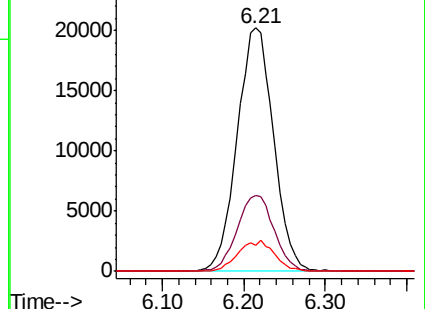
83 10.9 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 6.523 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011378.D

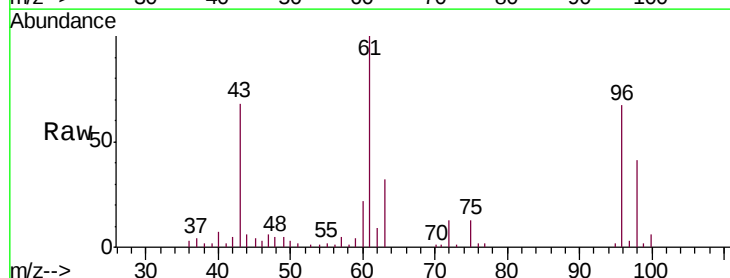
Acq: 19 Jul 2019 15:22

Tgt Ion: 43 Resp: 14555

Ion Ratio Lower Upper

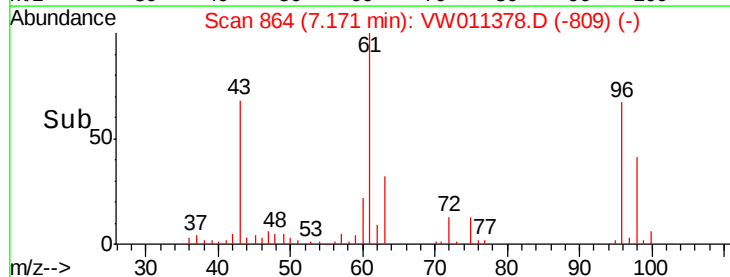
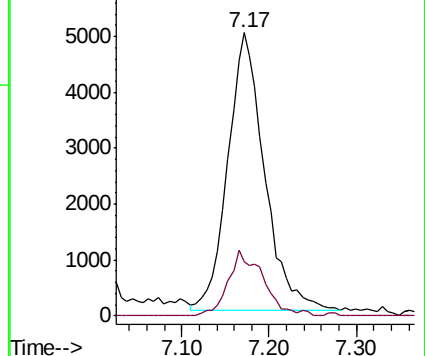
43 100

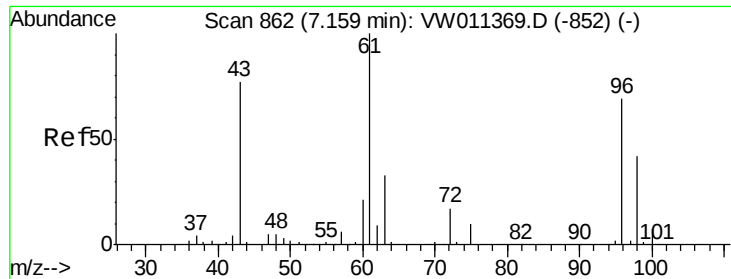
72 13.3 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

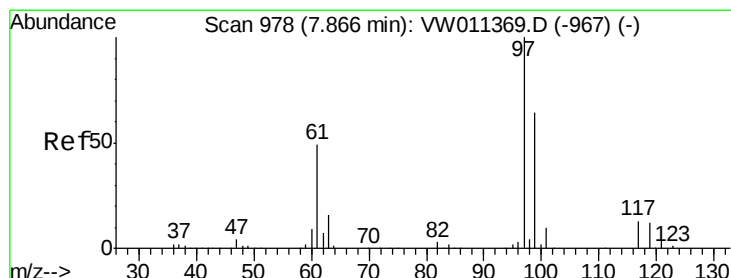
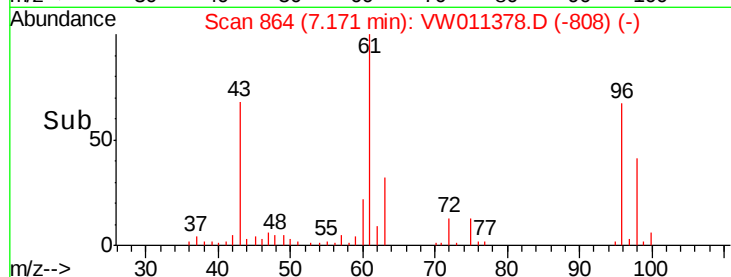
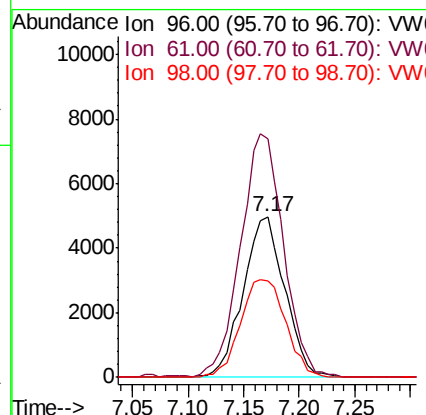
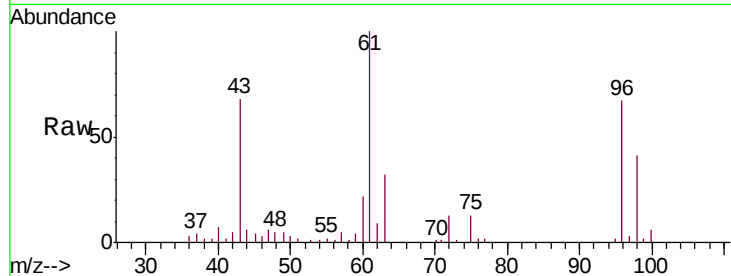




#22  
 cis-1,2-Dichloroethene  
 Concen: 3.067 ug/L  
 RT: 7.17 min Scan# 864  
 Delta R.T. 0.01 min  
 Lab File: VW011378.D  
 Acq: 19 Jul 2019 15:22

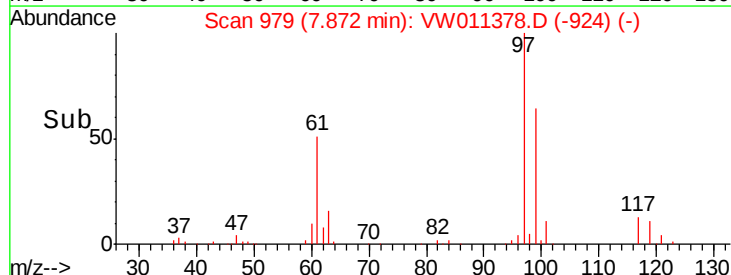
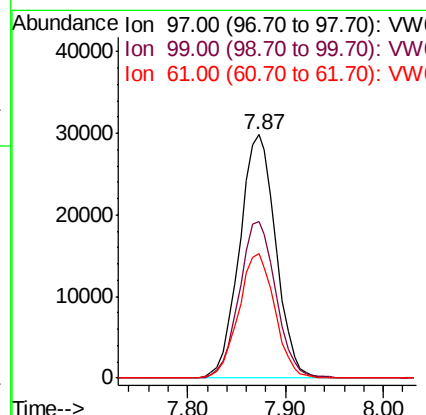
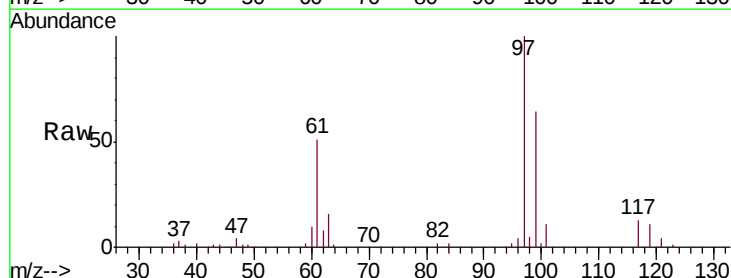
Instrument :  
 MSVOA\_W  
 ClientSampleID :  
 A52F3

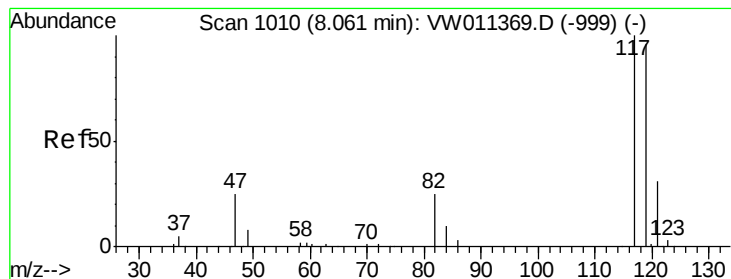
Tgt Ion: 96 Resp: 12970  
 Ion Ratio Lower Upper  
 96 100  
 61 148.5 103.2 191.6  
 98 60.2 44.8 83.2



#31  
 1,1,1-Trichloroethane  
 Concen: 15.602 ug/L  
 RT: 7.87 min Scan# 979  
 Delta R.T. 0.01 min  
 Lab File: VW011378.D  
 Acq: 19 Jul 2019 15:22

Tgt Ion: 97 Resp: 76796  
 Ion Ratio Lower Upper  
 97 100  
 99 64.7 50.6 75.8  
 61 50.9 40.9 61.3





#32

Carbon tetrachloride

Concen: 2.099 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.19 min

Lab File: VW011378.D

Acq: 19 Jul 2019 15:22

Instrument :

MSVOA\_W

ClientSampleId :

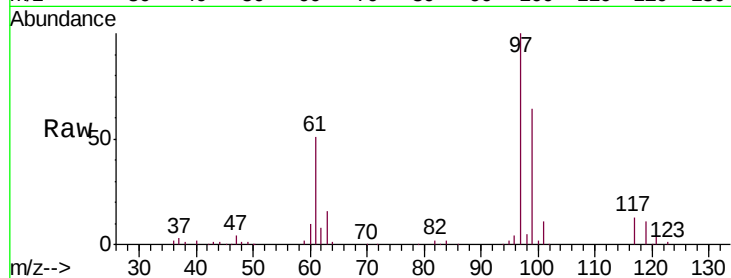
A52F3

Tgt Ion: 117 Resp: 9688

Ion Ratio Lower Upper

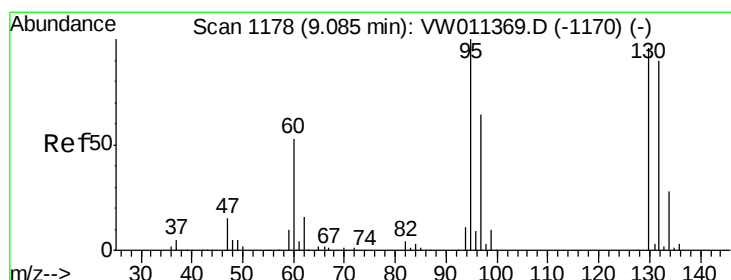
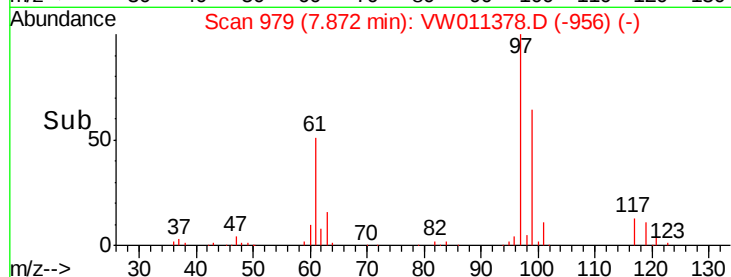
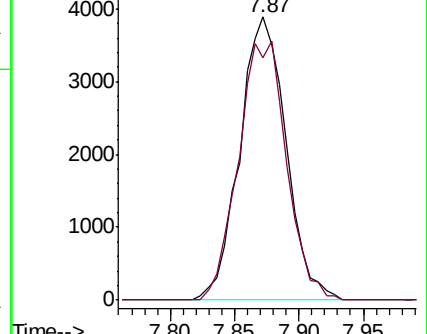
117 100

119 95.0 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#35

Trichloroethene

Concen: 1.054 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW011378.D

Acq: 19 Jul 2019 15:22

Tgt Ion: 95 Resp: 3941

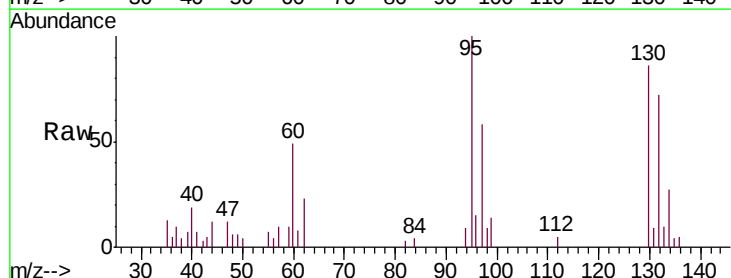
Ion Ratio Lower Upper

95 100

97 65.8 45.4 84.2

132 90.1 65.0 120.8

130 92.4 67.8 126.0

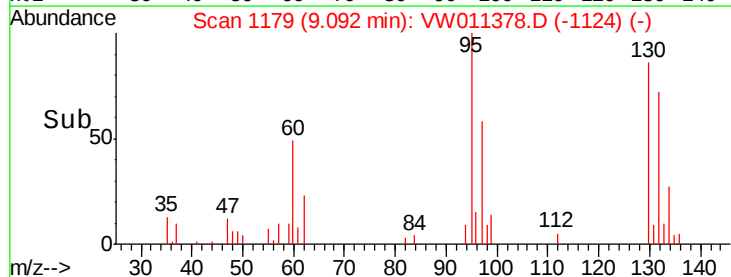
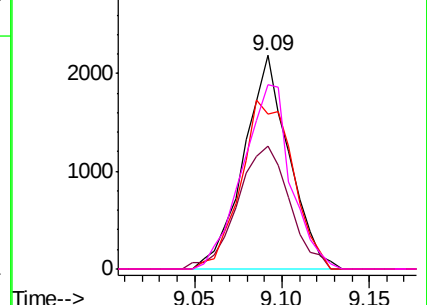


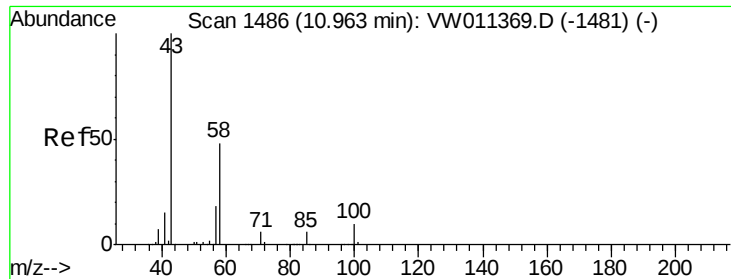
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





#49

2-Hexanone

Concen: 2.804 ug/L

RT: 10.93 min Scan# 1480

Delta R.T. -0.04 min

Lab File: VW011378.D

Acq: 19 Jul 2019 15:22

Instrument :

MSVOA\_W

ClientSampleId :

A52F3

Tgt Ion: 43 Resp: 7685

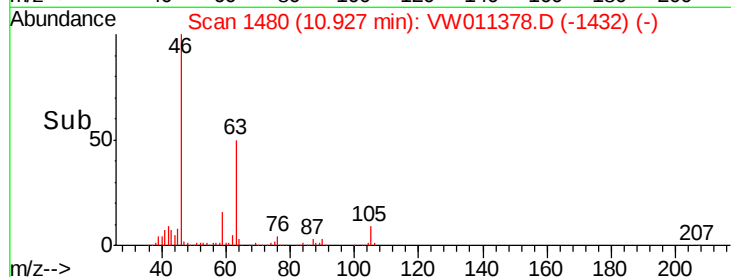
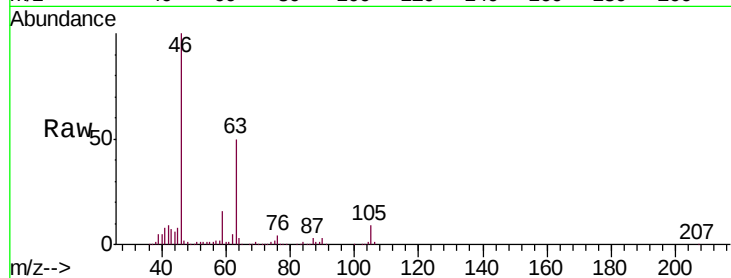
Ion Ratio Lower Upper

43 100

58 22.1 38.4 57.6#

57 27.9 13.3 19.9#

100 0.8 7.3 10.9#

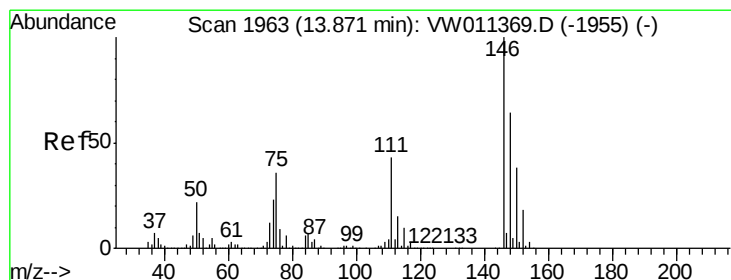
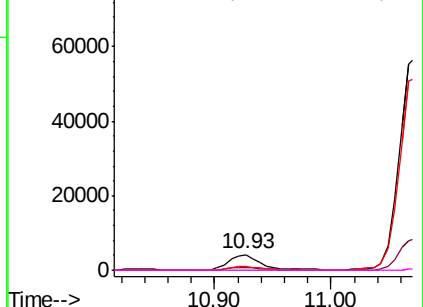


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#65

1,2-Dichlorobenzene

Concen: 0.891 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW011378.D

Acq: 19 Jul 2019 15:22

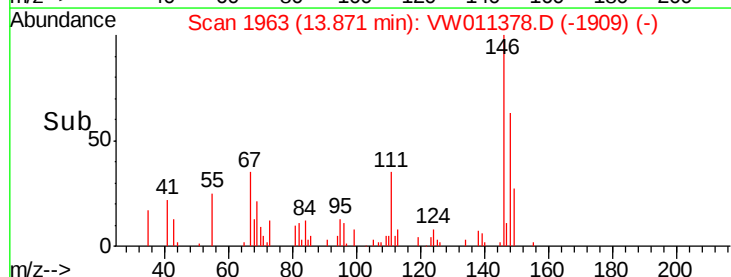
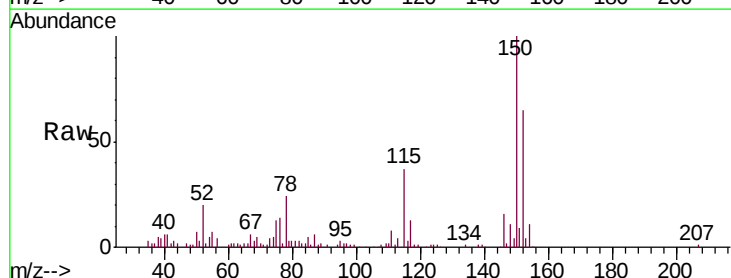
Tgt Ion: 146 Resp: 4334

Ion Ratio Lower Upper

146 100

111 51.3 34.1 51.1#

148 67.1 51.0 76.4



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

