

Data File : VV011068.D  
Acq On : 28 May 2019 17:30  
Operator : SY/MD  
Sample : K3016-11MS  
Misc : 5.87G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51C9MS

Quant Time: May 29 02:19:00 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
Quant Title : VOC Analysis  
QLast Update : Wed May 29 02:15:20 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 454824   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 370346   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 114757   | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 149591   | 23.99    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.96%   |
| 7) Chloroethane-d5             | 1.56   | 69    | 109132   | 24.52    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 98.08%   |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 290542   | 25.05    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 100.20%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 148425   | 69.06    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 138.12%# |
| 24) Chloroform-d               | 4.40   | 84    | 274080   | 24.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 99.40%   |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 179088   | 25.40    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 101.60%  |
| 29) Benzene-d6                 | 5.09   | 84    | 602291   | 27.78    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 111.12%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 194637   | 28.21    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 112.84%  |
| 37) Toluene-d8                 | 7.36   | 98    | 530080   | 26.52    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 106.08%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 88793    | 27.63    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 110.52%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 118557   | 78.88    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 157.76%# |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 161373   | 27.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 108.80%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 105881   | 23.33    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 93.32%   |

#### Target Compounds

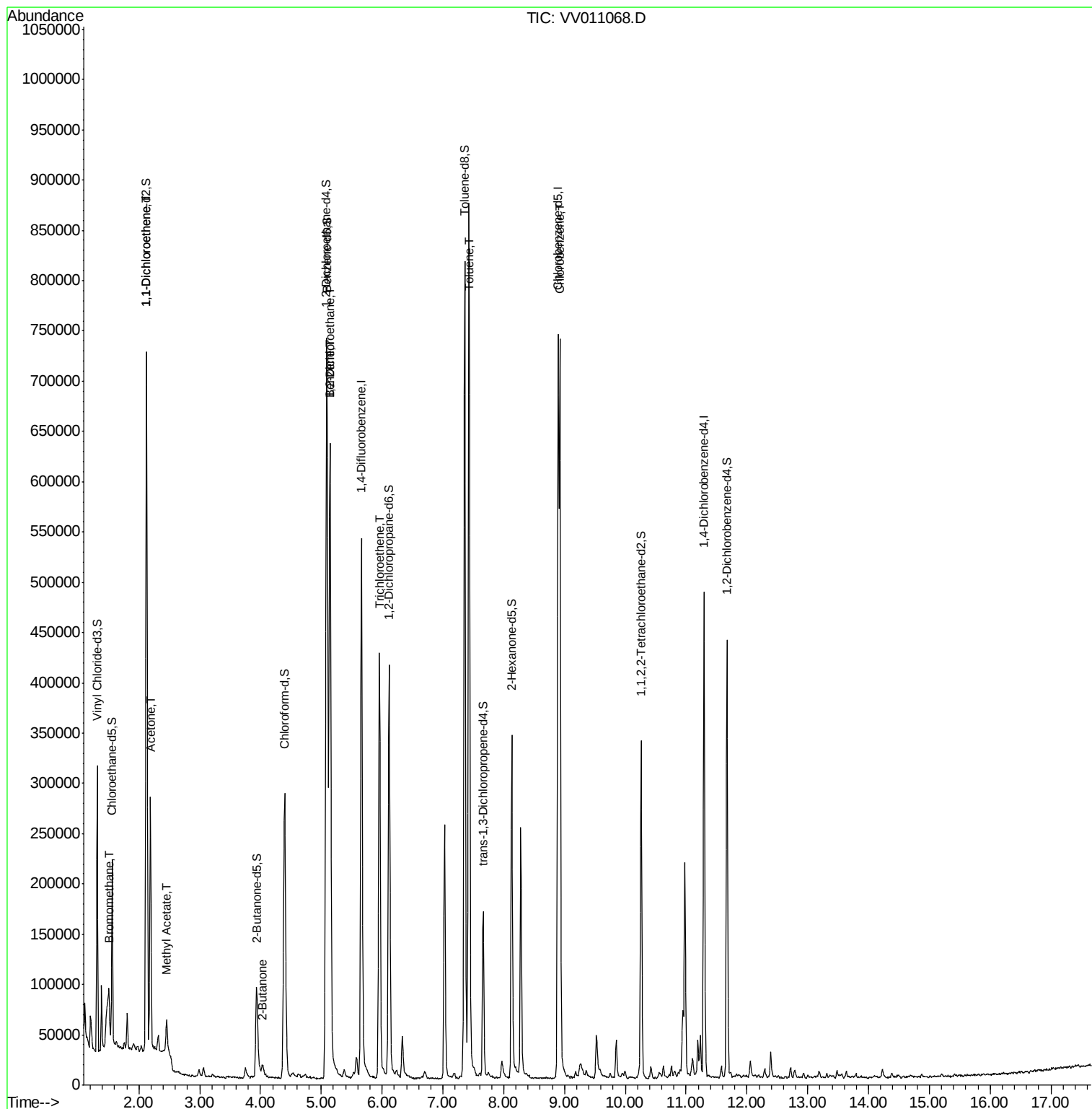
|                        |      |     |        |               | Qvalue |
|------------------------|------|-----|--------|---------------|--------|
| 6) Bromomethane        | 1.51 | 94  | 1943   | 0.668 ug/L    | 98     |
| 12) 1,1-Dichloroethene | 2.13 | 96  | 110626 | 24.227 ug/L   | 99     |
| 13) Acetone            | 2.19 | 43  | 238656 | 98.021 ug/L   | 100    |
| 15) Methyl Acetate     | 2.46 | 43  | 38025  | 10.820 ug/L # | 100    |
| 21) 2-Butanone         | 4.03 | 43  | 17909  | 5.973 ug/L    | 94     |
| 27) 1,2-Dichloroethane | 5.14 | 62  | 5013   | 0.600 ug/L #  | 75     |
| 34) Benzene            | 5.14 | 78  | 604088 | 26.974 ug/L   | 100    |
| 35) Trichloroethene    | 5.96 | 95  | 145490 | 24.874 ug/L   | 99     |
| 44) Toluene            | 7.43 | 91  | 629123 | 25.837 ug/L   | 99     |
| 52) Chlorobenzene      | 8.92 | 112 | 350829 | 23.249 ug/L   | 99     |

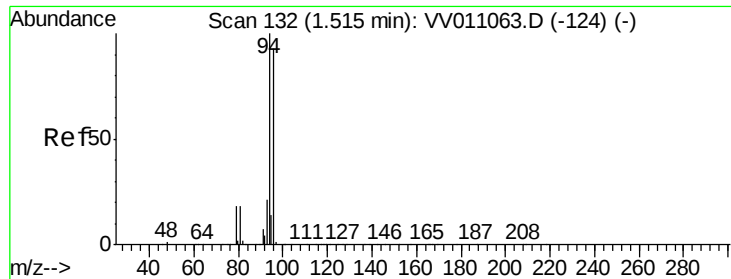
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.668 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.00 min

Lab File: VV011068.D

Acq: 28 May 2019 17:30

Instrument :

MSVOA\_V

ClientSampleId :

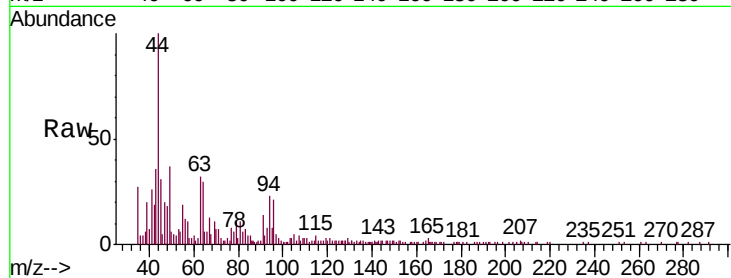
A51C9MS

Tgt Ion: 94 Resp: 1943

Ion Ratio Lower Upper

94 100

96 92.2 9.5 179.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.51

2500

2000

1500

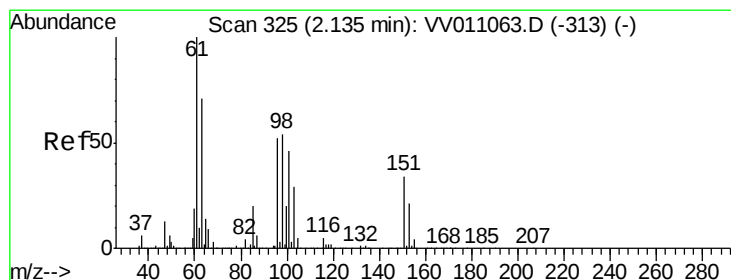
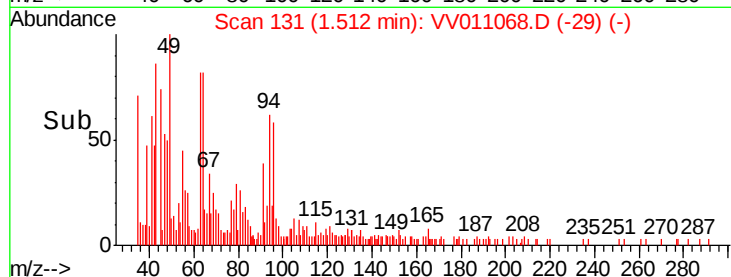
1000

500

0

Time-->

1.48 1.50 1.52 1.54



#12

1,1-Dichloroethene

Concen: 24.227 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV011068.D

Acq: 28 May 2019 17:30

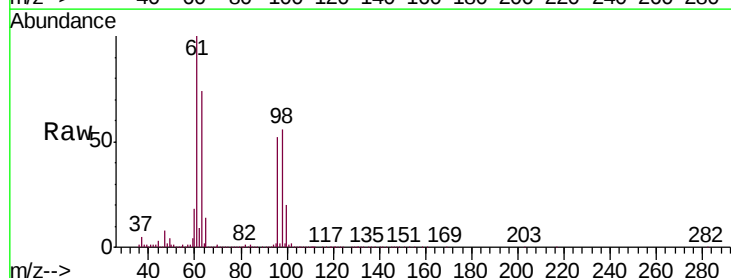
Tgt Ion: 96 Resp: 110626

Ion Ratio Lower Upper

96 100

61 191.9 134.1 249.1

63 142.0 98.1 182.3



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

250000

200000

150000

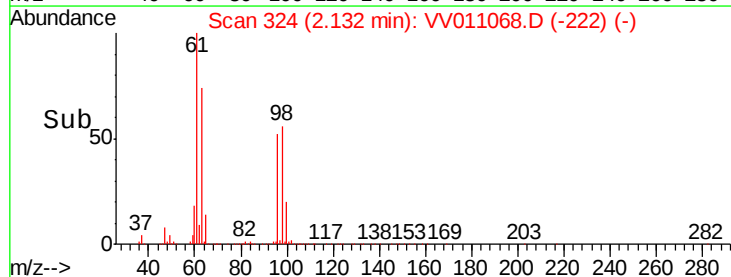
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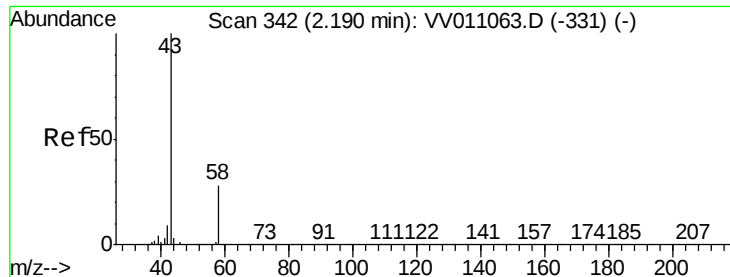
50000

0

Time-->

2.10 2.15 2.20





#13

Acetone

Concen: 98.021 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV011068.D

Acq: 28 May 2019 17:30

Instrument :

MSVOA\_V

ClientSampleId :

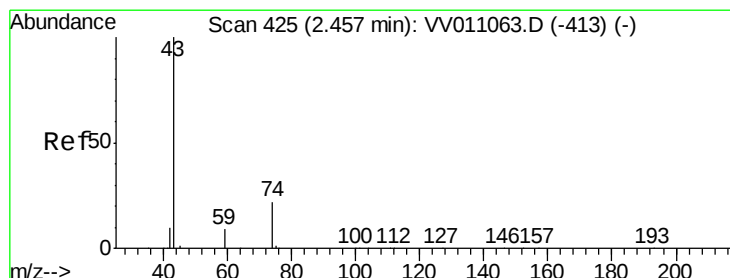
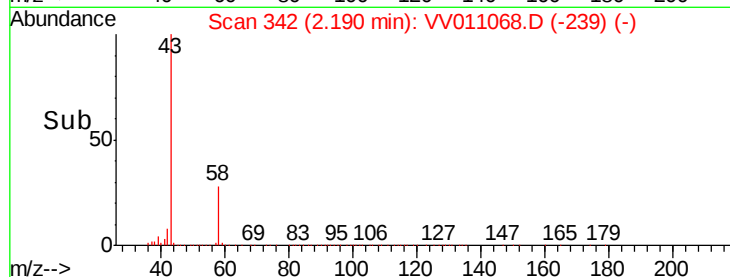
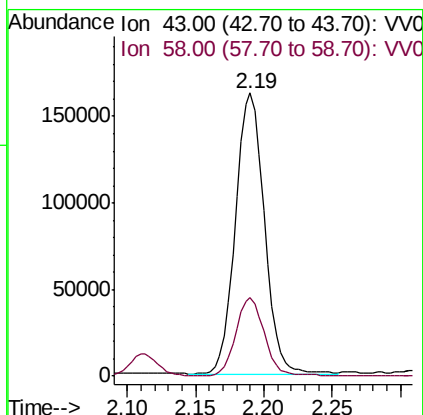
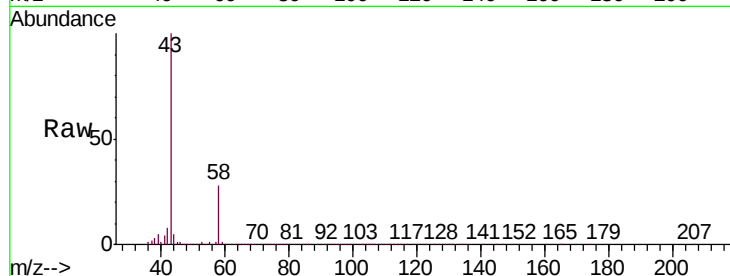
A51C9MS

Tgt Ion: 43 Resp: 238656

Ion Ratio Lower Upper

43 100

58 27.2 0.0 54.8



#15

Methyl Acetate

Concen: 10.820 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VV011068.D

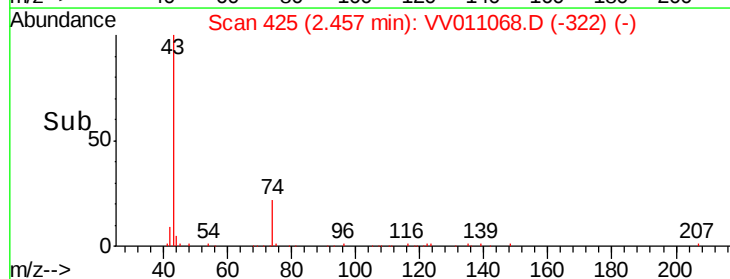
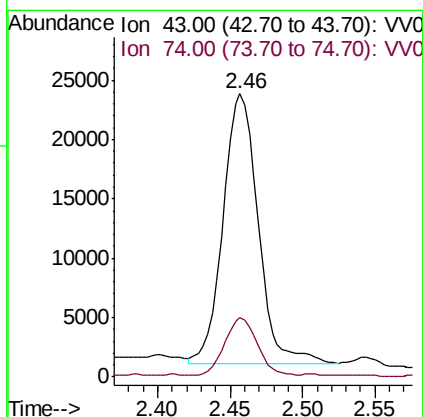
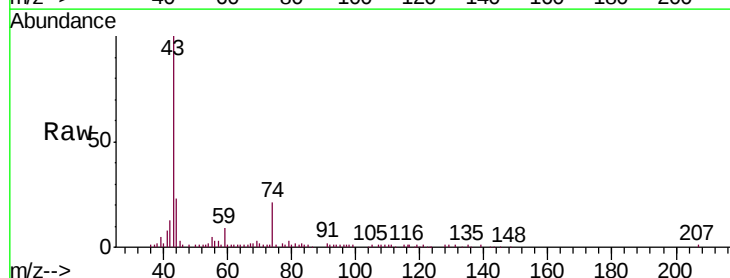
Acq: 28 May 2019 17:30

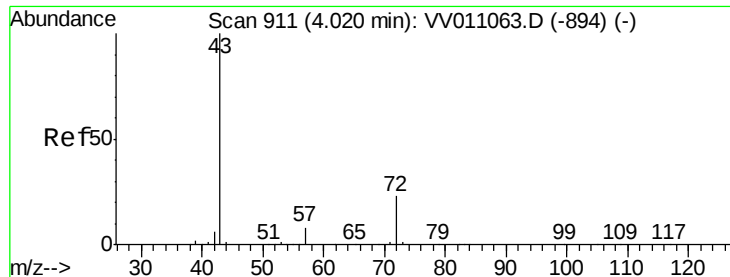
Tgt Ion: 43 Resp: 38025

Ion Ratio Lower Upper

43 100

74 19.8 0.0 0.0#





#21

2-Butanone

Concen: 5.973 ug/L

RT: 4.03 min Scan# 915

Delta R.T. 0.01 min

Lab File: VV011068.D

Acq: 28 May 2019 17:30

Instrument :

MSVOA\_V

ClientSampleId :

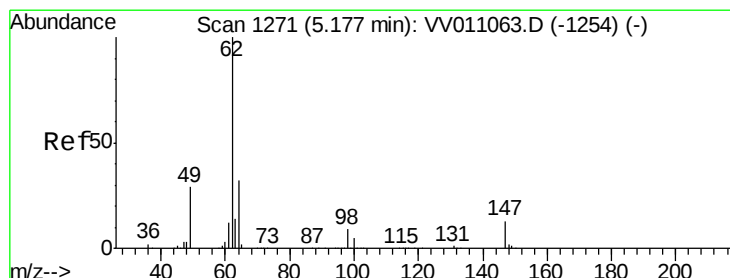
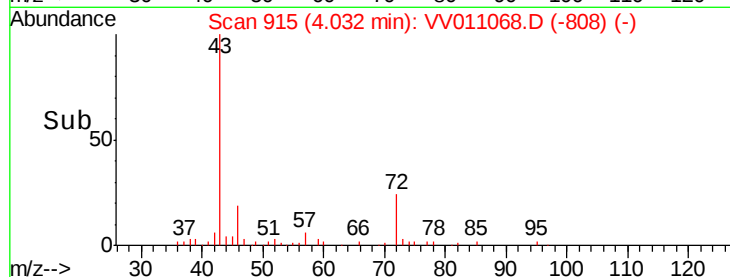
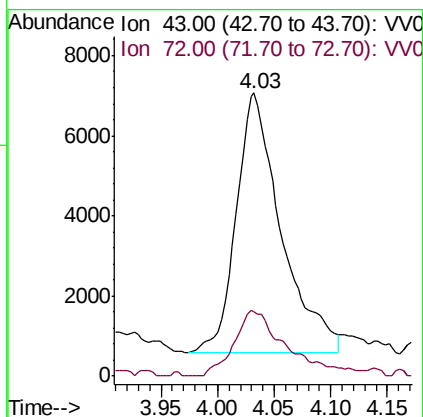
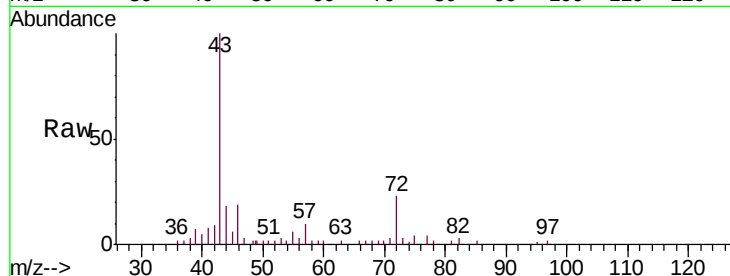
A51C9MS

Tgt Ion: 43 Resp: 17909

Ion Ratio Lower Upper

43 100

72 24.0 10.7 31.9



#27

1,2-Dichloroethane

Concen: 0.600 ug/L

RT: 5.14 min Scan# 1260

Delta R.T. -0.04 min

Lab File: VV011068.D

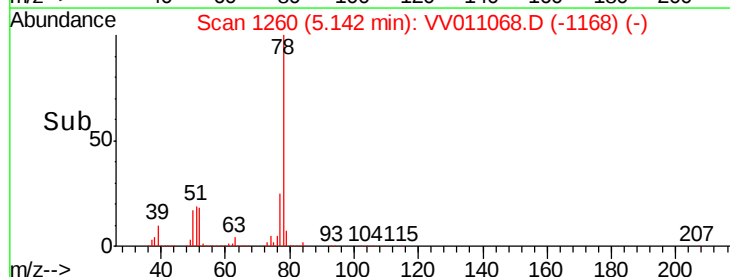
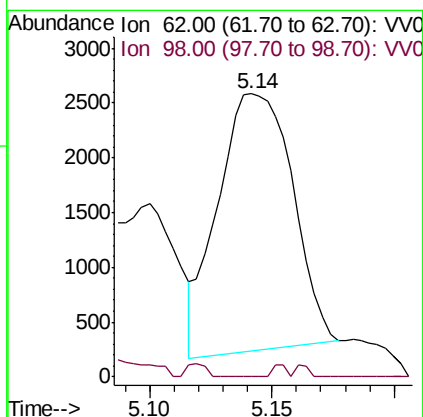
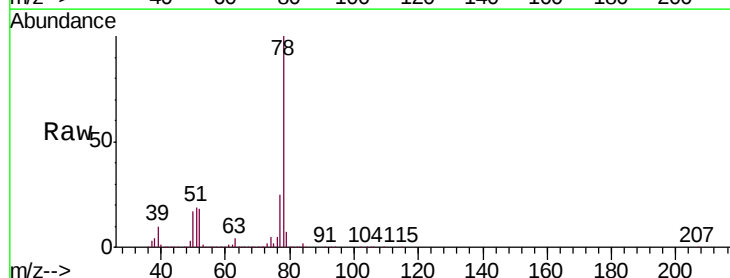
Acq: 28 May 2019 17:30

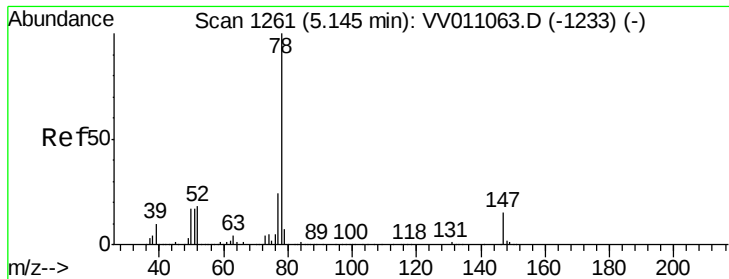
Tgt Ion: 62 Resp: 5013

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#





#34

Benzene

Concen: 26.974 ug/L

RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VV011068.D

Acq: 28 May 2019 17:30

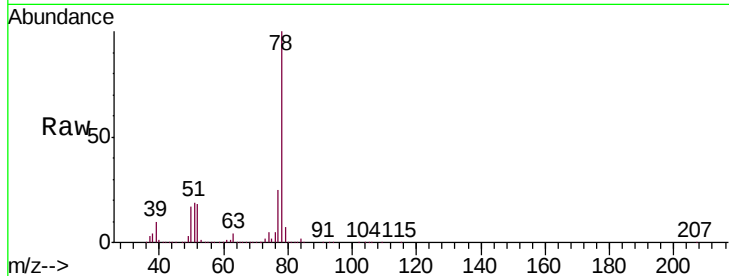
Instrument :

MSVOA\_V

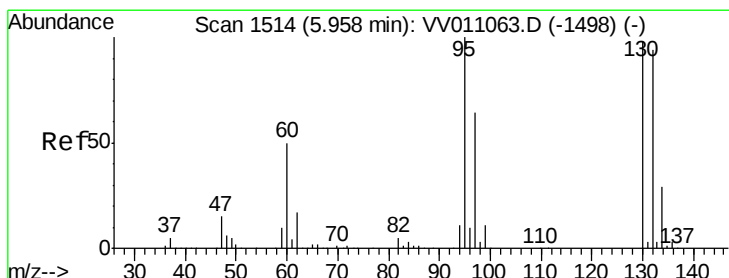
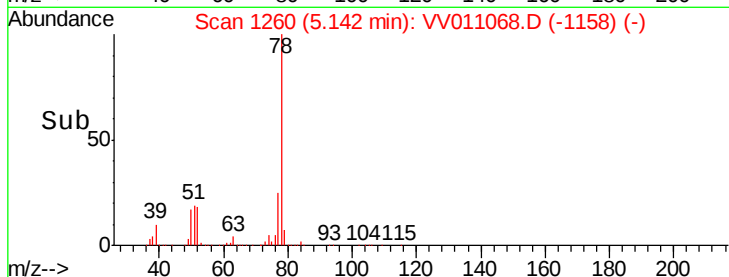
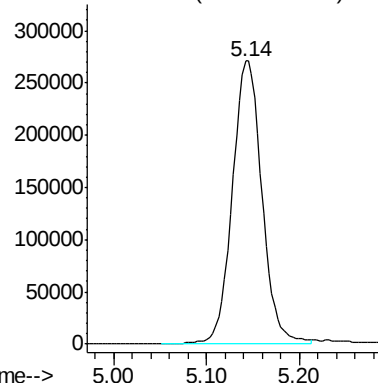
ClientSampleId :

A51C9MS

Tgt Ion: 78 Resp: 604088



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Trichloroethene

Concen: 24.874 ug/L

RT: 5.96 min Scan# 1513

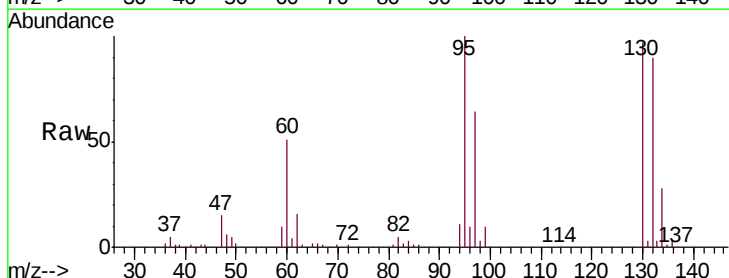
Delta R.T. -0.00 min

Lab File: VV011068.D

Acq: 28 May 2019 17:30

Tgt Ion: 95 Resp: 145490

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.2  | 45.4  | 84.4  |
| 132 | 92.1  | 66.1  | 122.8 |
| 130 | 97.8  | 68.9  | 127.9 |

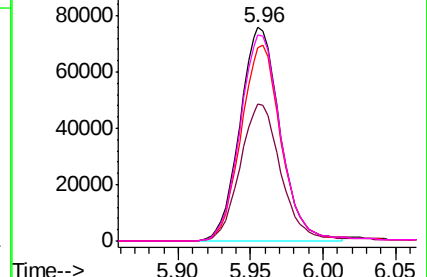
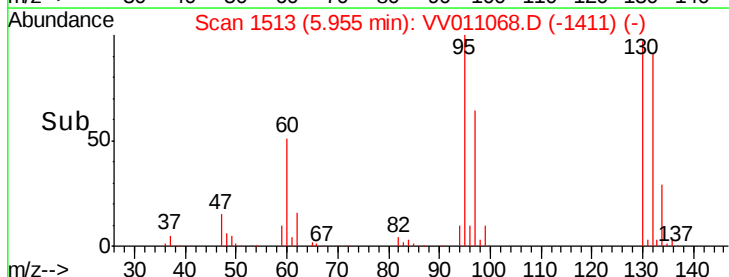


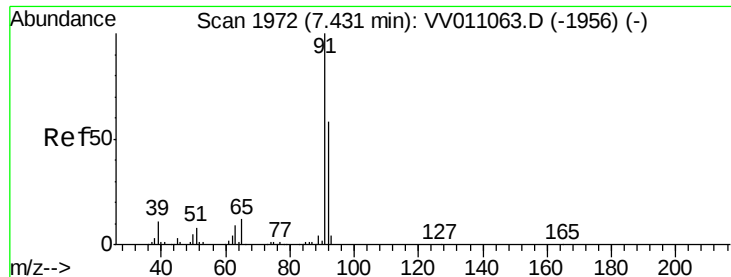
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0





#44

Toluene

Concen: 25.837 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

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Acq: 28 May 2019 17:30

Instrument :

MSVOA\_V

ClientSampleId :

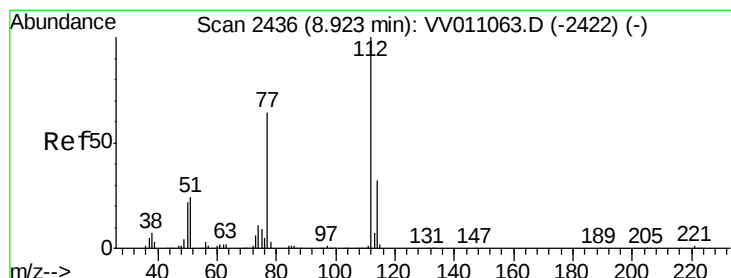
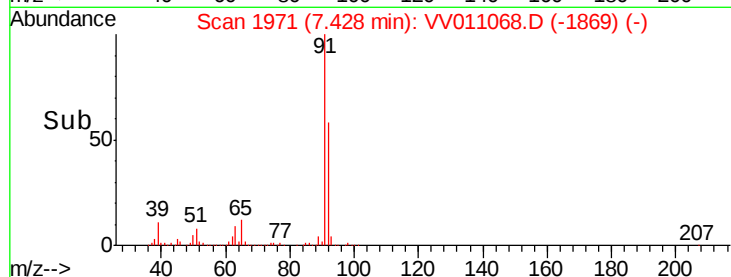
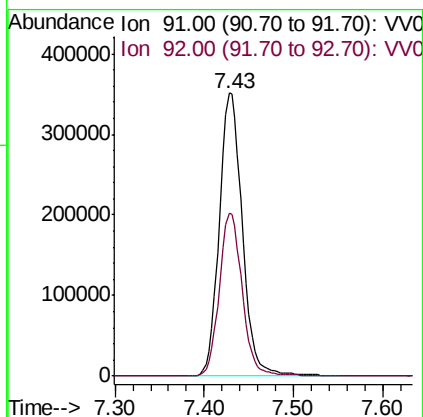
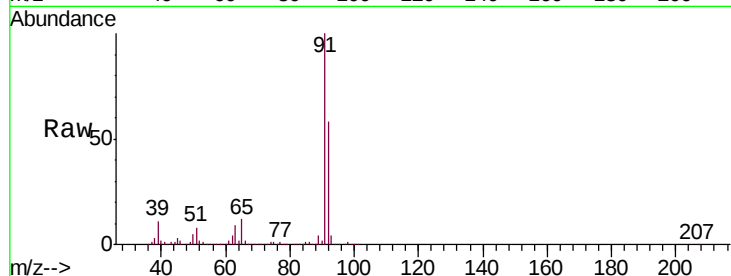
A51C9MS

Tgt Ion: 91 Resp: 629123

Ion Ratio Lower Upper

91 100

92 57.6 41.0 76.2



#52

Chlorobenzene

Concen: 23.249 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV011068.D

Acq: 28 May 2019 17:30

Tgt Ion: 112 Resp: 350829

Ion Ratio Lower Upper

112 100

77 64.1 50.8 76.2

114 31.0 22.7 42.1

