

Data File : VV009648.D  
Acq On : 13 Mar 2019 20:57  
Operator : SY/MD  
Sample : K1794-10  
Misc : 4.01G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5P0

Quant Time: Mar 14 07:41:44 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM031319S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Mar 14 07:37:27 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 105053   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 86245    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 28992    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 22950    | 17.08    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 68.32%   |
| 7) Chloroethane-d5             | 1.57   | 69    | 29085    | 17.55    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 70.20%   |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 51043    | 14.06    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 56.24%   |
| 20) 2-Butanone-d5              | 3.96   | 46    | 2223     | 6.32     | ug/L | 0.03     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 12.64%#  |
| 24) Chloroform-d               | 4.40   | 84    | 58091    | 21.69    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 86.76%   |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 38873    | 25.65    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 102.60%  |
| 29) Benzene-d6                 | 5.10   | 84    | 115396   | 25.51    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.04%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 39744    | 30.07    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 120.28%# |
| 37) Toluene-d8                 | 7.36   | 98    | 102493   | 23.41    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 93.64%   |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 3425     | 5.64     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 22.56%#  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 1717     | 7.05     | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 14.10%#  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 29246    | 23.37    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 93.48%   |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 24095    | 21.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 85.84%   |

#### Target Compounds

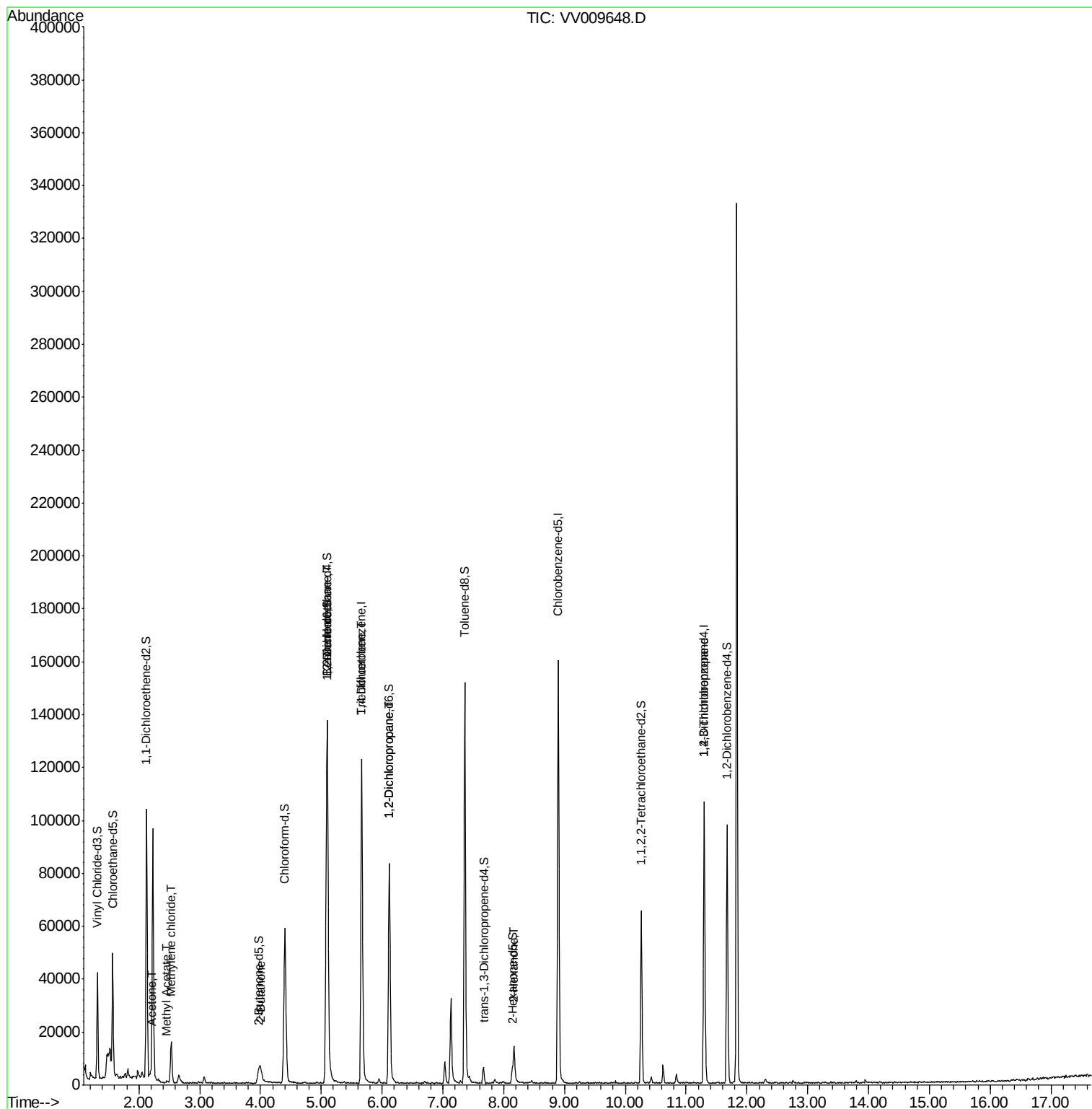
|                            |       |    |      |        |        | Qvalue |
|----------------------------|-------|----|------|--------|--------|--------|
| 13) Acetone                | 2.19  | 43 | 3596 | 8.478  | ug/L   | 97     |
| 15) Methyl Acetate         | 2.46  | 43 | 747  | 1.207  | ug/L # | 62     |
| 16) Methylene chloride     | 2.54  | 84 | 3945 | 2.580  | ug/L   | 89     |
| 21) 2-Butanone             | 4.01  | 43 | 7581 | 14.477 | ug/L # | 49     |
| 27) 1,2-Dichloroethane     | 5.10  | 62 | 542  | 0.288  | ug/L # | 75     |
| 35) Trichloroethene        | 5.66  | 95 | 3171 | 2.336  | ug/L # | 5      |
| 40) 1,2-Dichloropropane    | 6.12  | 63 | 4669 | 3.931  | ug/L # | 88     |
| 49) 2-Hexanone             | 8.17  | 43 | 8966 | 14.697 | ug/L # | 45     |
| 59) 1,2,3-Trichloropropane | 11.30 | 75 | 3958 | 4.284  | ug/L # | 80     |

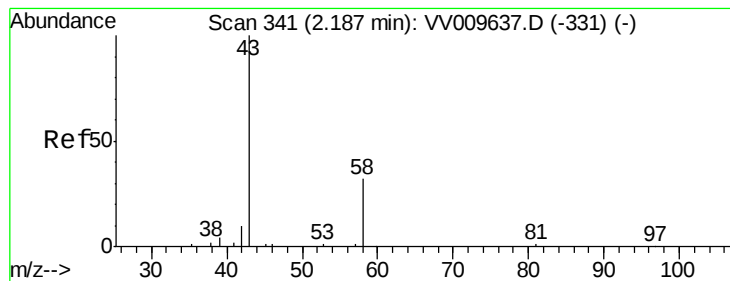
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Thu Mar 14 07:37:27 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 8.478 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VV009648.D

Acq: 13 Mar 2019 20:57

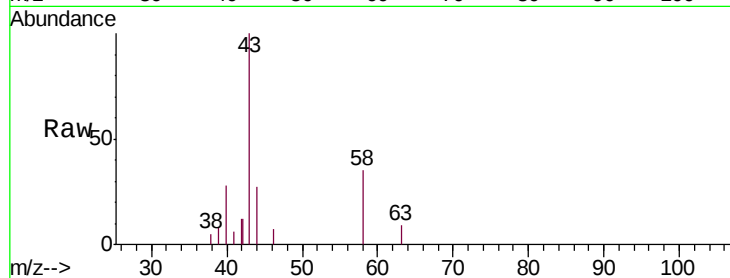
Instrument :  
MSVOA\_V  
ClientSampleID :  
BF5P0

Tgt Ion: 43 Resp: 3596

Ion Ratio Lower Upper

43 100

58 30.8 0.0 64.8



Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009637.D (-331) (-)

2500

2000

1500

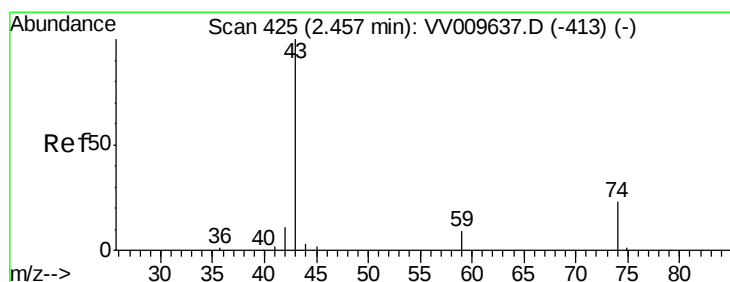
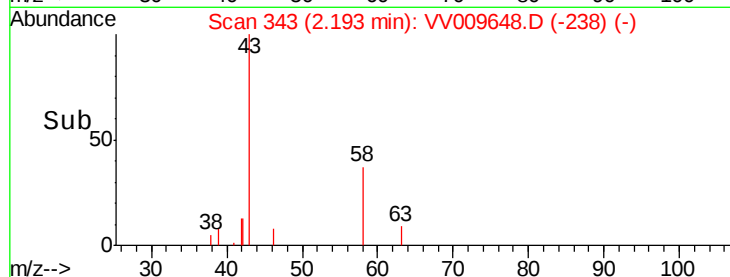
1000

500

0

2.15 2.20 2.25

Time-->



#15

Methyl Acetate

Concen: 1.207 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.01 min

Lab File: VV009648.D

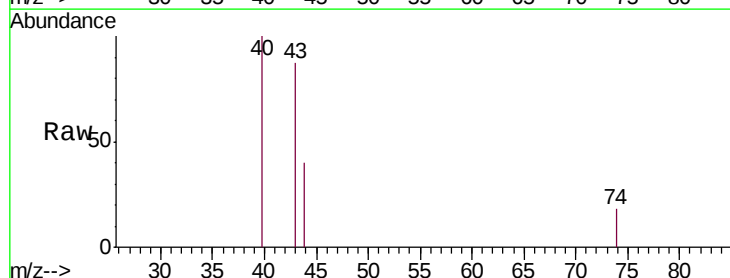
Acq: 13 Mar 2019 20:57

Tgt Ion: 43 Resp: 747

Ion Ratio Lower Upper

43 100

74 5.8 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VV009648.D (-322) (-)

Ion 74.00 (73.70 to 74.70): VV009648.D (-322) (-)

600

500

400

300

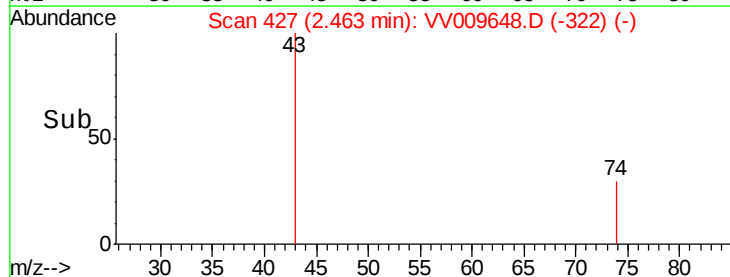
200

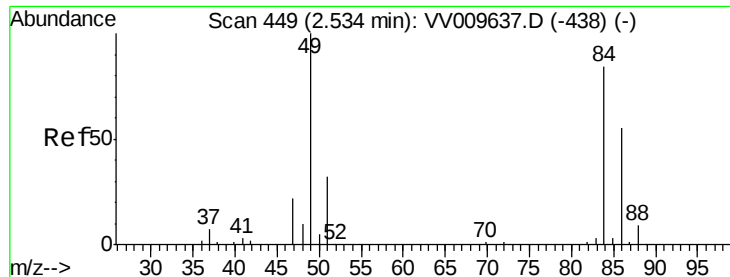
100

0

2.44 2.46 2.48

Time-->

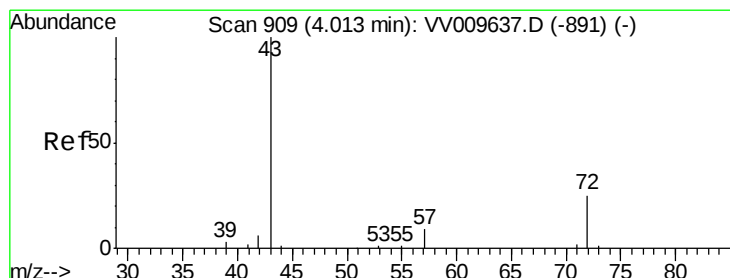
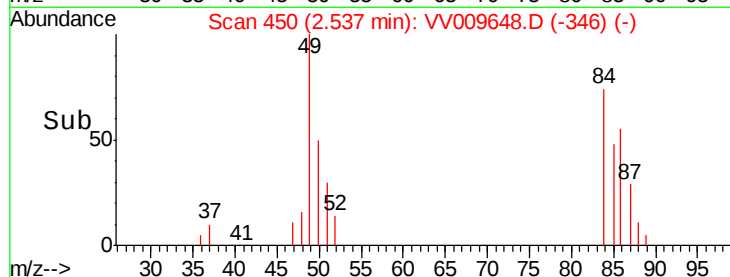
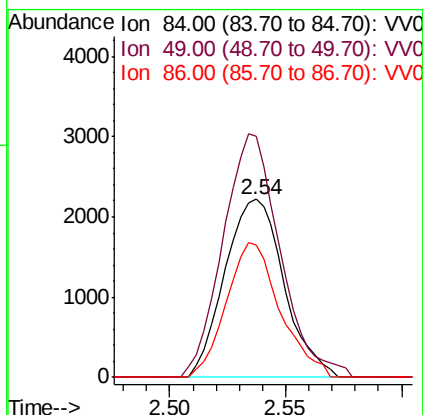
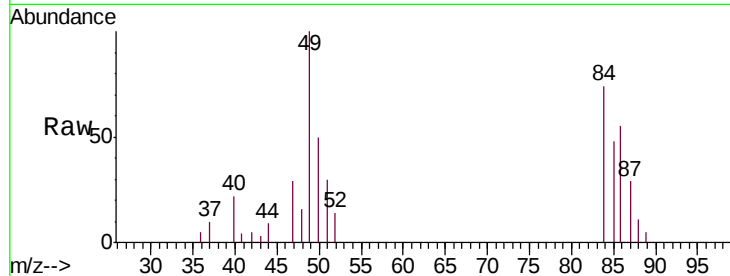




#16  
Methylene chloride  
Concen: 2.580 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VV009648.D  
Acq: 13 Mar 2019 20:57

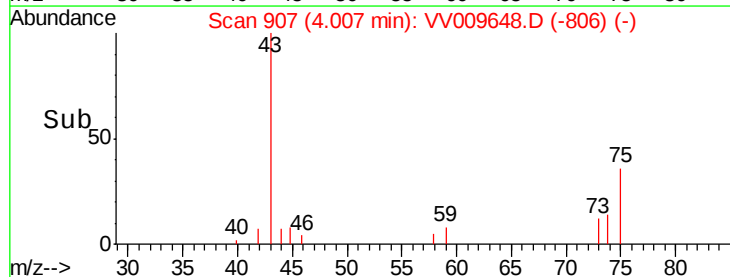
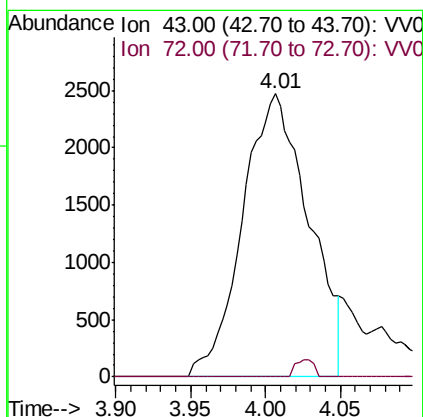
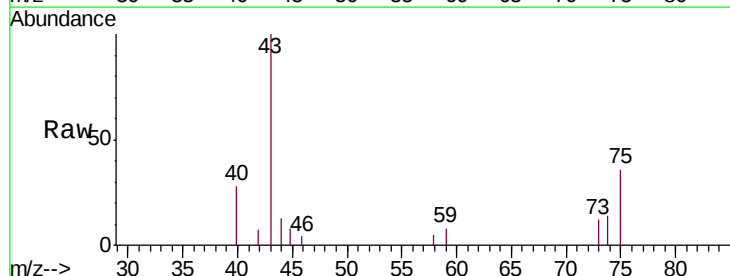
Instrument :  
MSVOA\_V  
ClientSampled :  
BF5P0

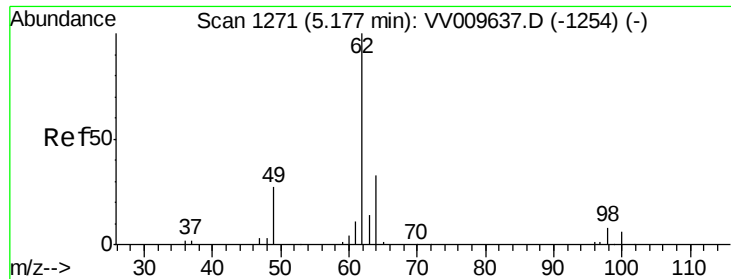
Tgt Ion: 84 Resp: 3945  
Ion Ratio Lower Upper  
84 100  
49 135.3 86.1 159.9  
86 74.5 45.2 84.0



#21  
2-Butanone  
Concen: 14.477 ug/L  
RT: 4.01 min Scan# 907  
Delta R.T. -0.01 min  
Lab File: VV009648.D  
Acq: 13 Mar 2019 20:57

Tgt Ion: 43 Resp: 7581  
Ion Ratio Lower Upper  
43 100  
72 1.7 14.5 43.5#





#27

1,2-Dichloroethane

Concen: 0.288 ug/L

RT: 5.10 min Scan# 1246

Delta R.T. -0.08 min

Lab File: VV009648.D

Acq: 13 Mar 2019 20:57

Instrument :

MSVOA\_V

ClientSampleId :

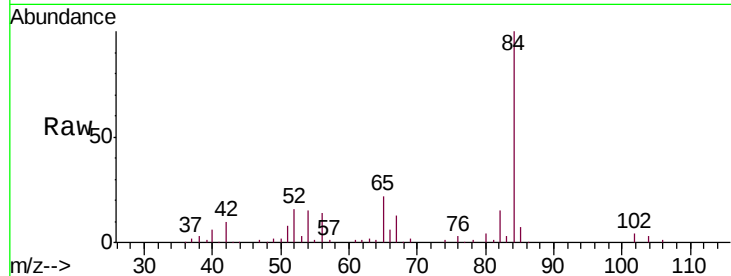
BF5P0

Tgt Ion: 62 Resp: 542

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



Abundance Ion 62.00 (61.70 to 62.70): VV009637.D (-1254) (-)

Ion 98.00 (97.70 to 98.70): VV009637.D (-1254) (-)

5.10

300

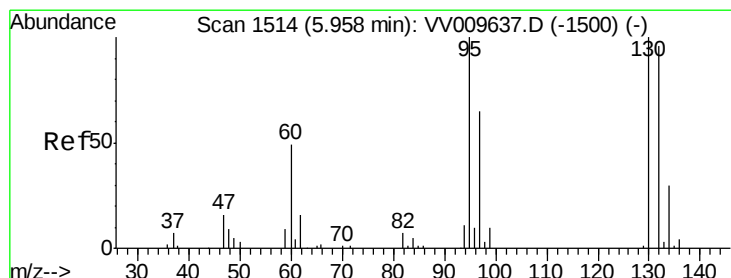
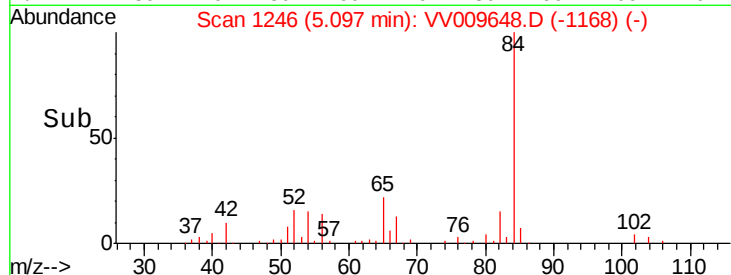
200

100

0

5.08 5.10 5.12 5.14

Time-->



#35

Trichloroethene

Concen: 2.336 ug/L

RT: 5.66 min Scan# 1422

Delta R.T. -0.30 min

Lab File: VV009648.D

Acq: 13 Mar 2019 20:57

Tgt Ion: 95 Resp: 3171

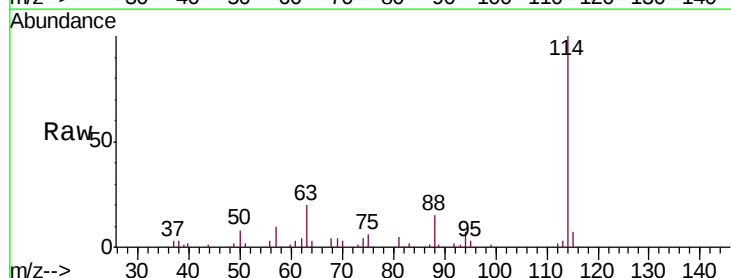
Ion Ratio Lower Upper

95 100

97 0.0 44.9 83.5#

132 0.0 66.4 123.2#

130 0.0 70.2 130.4#



Abundance Ion 95.00 (94.70 to 95.70): VV009637.D (-1500) (-)

Ion 97.00 (96.70 to 97.70): VV009637.D (-1500) (-)

Ion 132.00 (131.70 to 132.70): VV009637.D (-1500) (-)

Ion 130.00 (129.70 to 130.70): VV009637.D (-1500) (-)

2500

2000

1500

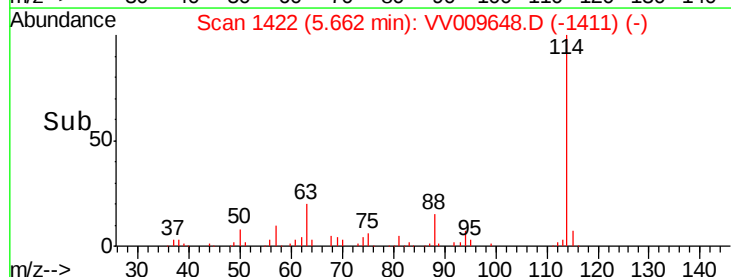
1000

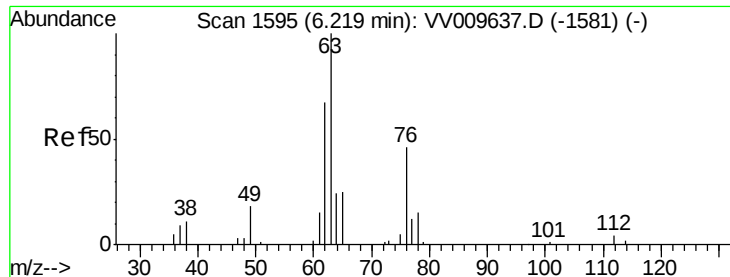
500

0

5.60 5.65 5.70

Time-->





#40

1,2-Dichloropropane

Concen: 3.931 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.10 min

Lab File: VV009648.D

Acq: 13 Mar 2019 20:57

Instrument :

MSVOA\_V

ClientSampleId :

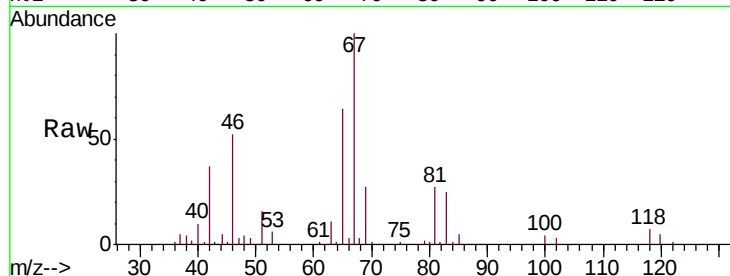
BF5P0

Tgt Ion: 63 Resp: 4669

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



Abundance Ion 63.00 (62.70 to 63.70): VV009637.D (-1581) (-)

Ion 112.00 (111.70 to 112.70): VV009637.D (-1581) (-)

2500

2000

1500

1000

500

0

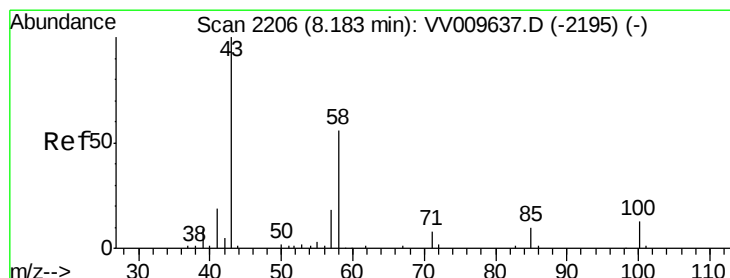
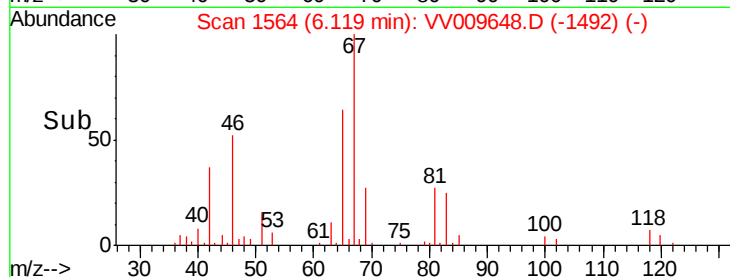
6.05

6.10

6.12

6.15

Time-->



#49

2-Hexanone

Concen: 14.697 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. -0.01 min

Lab File: VV009648.D

Acq: 13 Mar 2019 20:57

Tgt Ion: 43 Resp: 8966

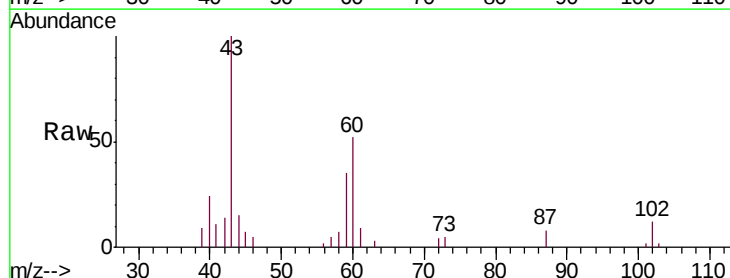
Ion Ratio Lower Upper

43 100

58 6.7 44.9 67.3#

57 3.3 14.5 21.7#

100 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-2195) (-)

Ion 58.00 (57.70 to 58.70): VV009637.D (-2195) (-)

Ion 57.00 (56.70 to 57.70): VV009637.D (-2195) (-)

Ion 100.00 (99.70 to 100.70): VV009637.D (-2195) (-)

6000

4000

2000

0

8.10

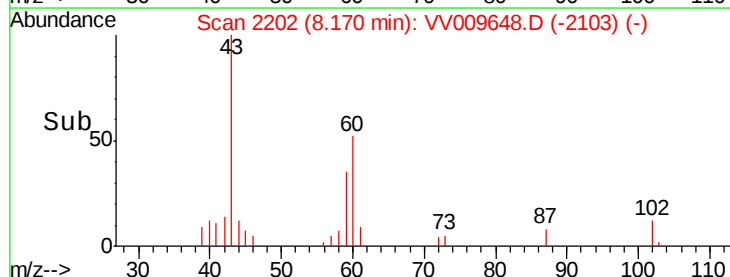
8.15

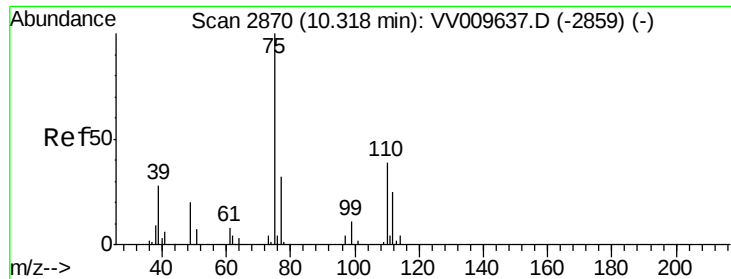
8.17

8.20

8.25

Time-->





#59

1,2,3-Trichloropropane

Concen: 4.284 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV009648.D

Acq: 13 Mar 2019 20:57

Instrument :

MSVOA\_V

ClientSampleId :

BF5P0

Tgt Ion: 75 Resp: 3958

Ion Ratio Lower Upper

75 100

77 42.6 25.3 37.9#

