

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW040519\  
 Data File : VW009732.D  
 Acq On : 05 Apr 2019 15:02  
 Operator : SY/VA  
 Sample : K2148-19  
 Misc : 4.21G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF5G6RE

Quant Time: Apr 06 03:56:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 06 03:51:49 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 31949    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 49045    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 20994    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 2499     | 5.98     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 23.92%#  |
| 7) Chloroethane-d5             | 2.71   | 69    | 94       | 0.25     | ug/L | -0.18    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 1.00%#   |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 5605     | 6.23     | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 24.92%#  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 1121     | 8.26     | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 16.52%#  |
| 24) Chloroform-d               | 7.65   | 84    | 44722    | 51.30    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 205.20%# |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 69709    | 130.24   | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 520.96%# |
| 29) Benzene-d6                 | 8.27   | 84    | 55303    | 21.48    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 85.92%   |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 38809    | 48.80    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 195.20%# |
| 37) Toluene-d8                 | 10.32  | 98    | 41110    | 17.27    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 69.08%   |
| 38) trans-1,3-Dichloropropene- | 10.59  | 79    | 2384     | 6.29     | ug/L | 0.01     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 25.16%#  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 532      | 3.55     | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 7.10%#   |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 73935    | 100.01   | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 400.04%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 26155    | 35.50    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 142.00%# |

## Target Compounds

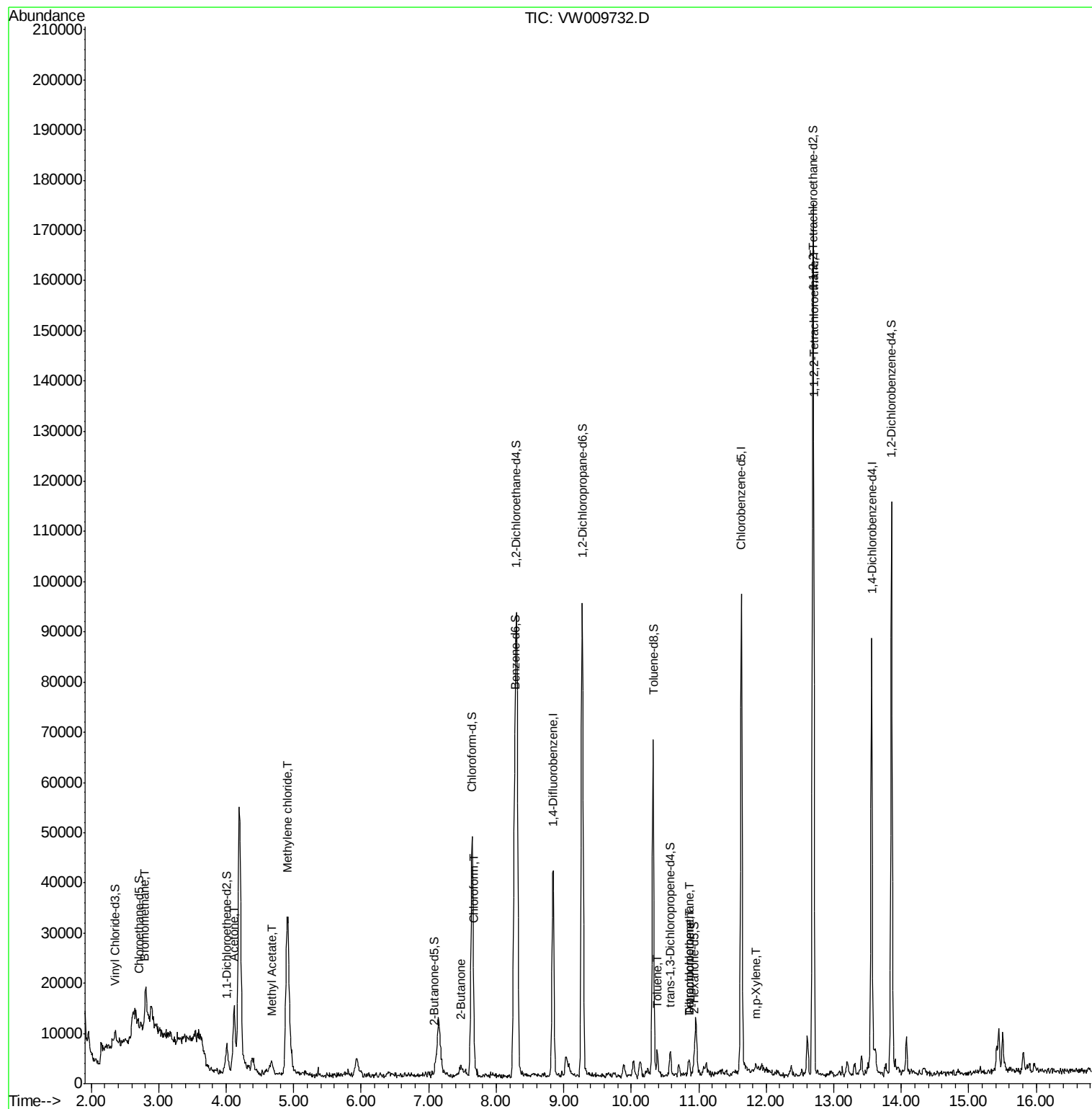
|                               |       |     |       |         | Qvalue    |
|-------------------------------|-------|-----|-------|---------|-----------|
| 6) Bromomethane               | 2.79  | 94  | 177   | 0.459   | ug/L 50   |
| 13) Acetone                   | 4.12  | 43  | 21890 | 150.507 | ug/L 98   |
| 15) Methyl Acetate            | 4.67  | 43  | 3820  | 14.405  | ug/L # 80 |
| 16) Methylene chloride        | 4.90  | 84  | 12698 | 22.536  | ug/L 96   |
| 21) 2-Butanone                | 7.47  | 43  | 183   | 0.989   | ug/L 86   |
| 25) Chloroform                | 7.67  | 83  | 500   | 0.564   | ug/L 92   |
| 44) Toluene                   | 10.40 | 91  | 3412  | 1.092   | ug/L 80   |
| 47) Tetrachloroethene         | 10.85 | 164 | 342   | 0.562   | ug/L 78   |
| 50) Dibromochloromethane      | 10.86 | 129 | 399   | 0.573   | ug/L # 12 |
| 54) m,p-Xylene                | 11.84 | 106 | 484   | 0.367   | ug/L # 48 |
| 58) 1,1,2,2-Tetrachloroethane | 12.71 | 83  | 274   | 0.359   | ug/L # 1  |

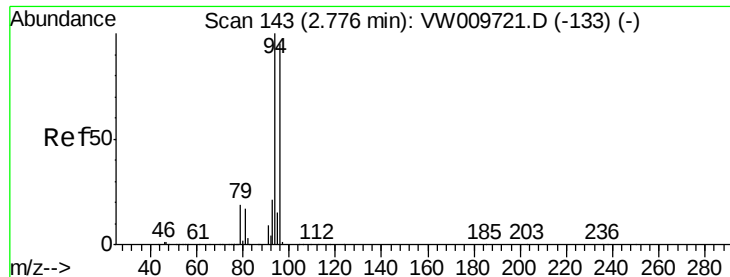
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 06 03:51:49 2019  
Response via : Initial Calibration





#6

Bromomethane

Concen: 0.459 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW009732.D

Acq: 05 Apr 2019 15:02

Instrument :

MSVOA\_W

ClientSampleId :

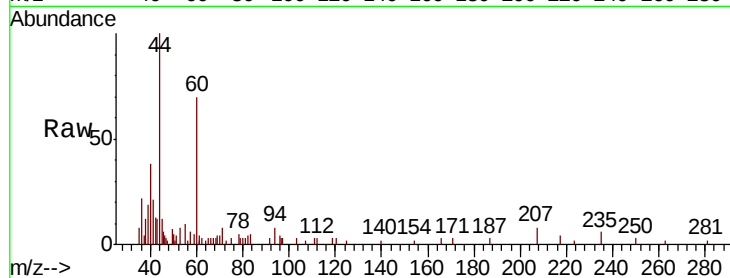
BF5G6RE

Tgt Ion: 94 Resp: 177

Ion Ratio Lower Upper

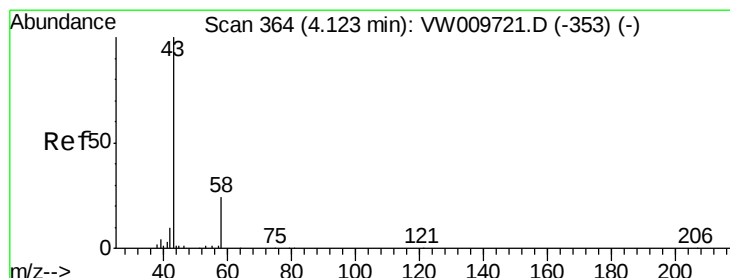
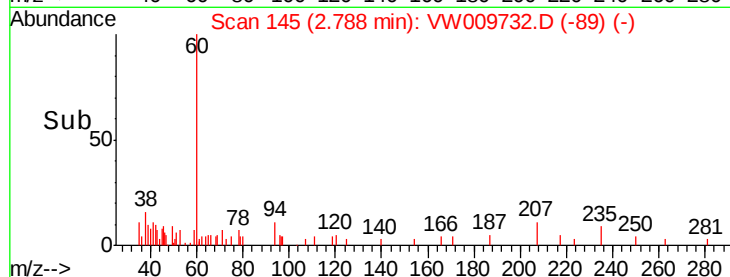
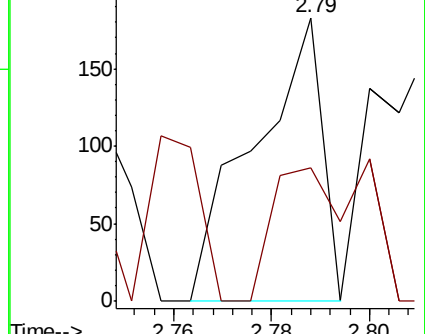
94 100

96 45.2 9.3 177.3



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW



#13

Acetone

Concen: 150.507 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW009732.D

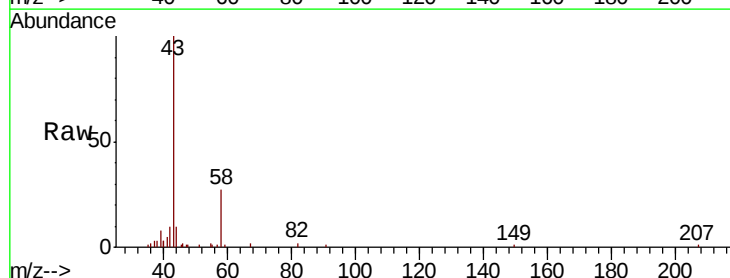
Acq: 05 Apr 2019 15:02

Tgt Ion: 43 Resp: 21890

Ion Ratio Lower Upper

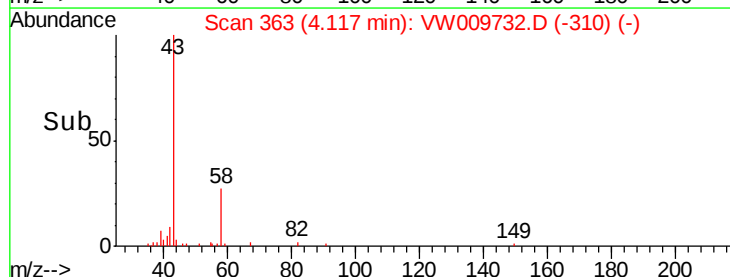
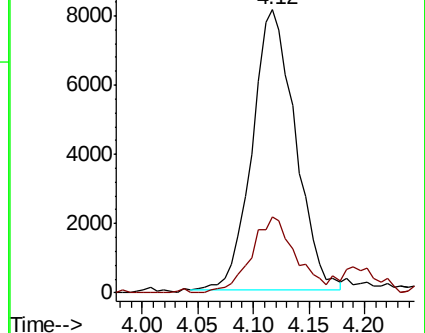
43 100

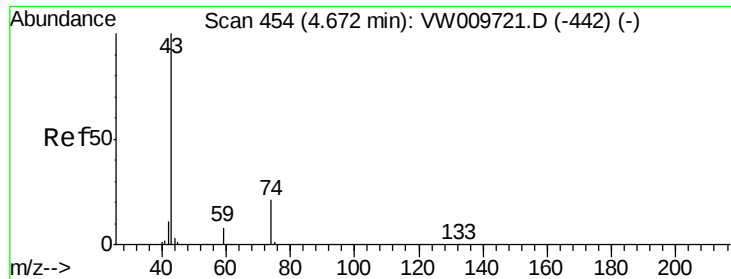
58 27.8 0.0 53.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

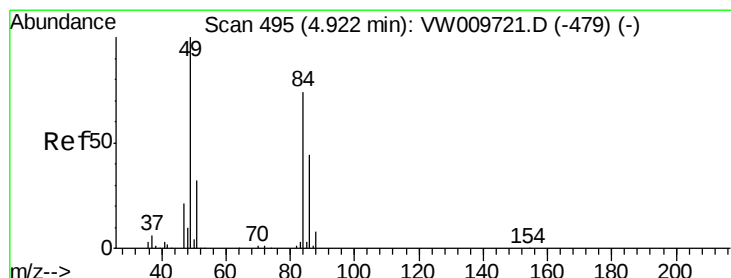
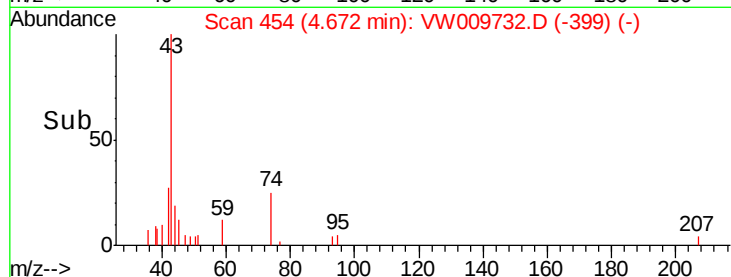
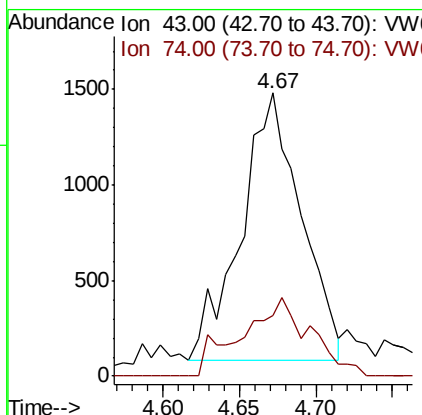
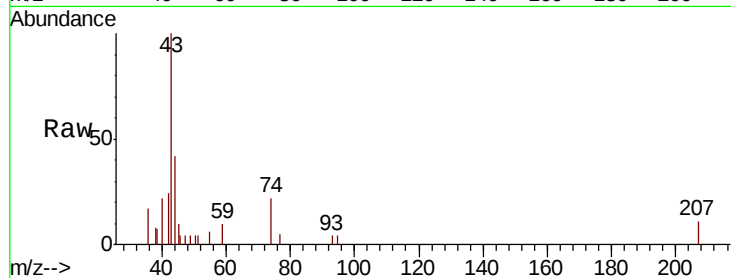




#15  
Methyl Acetate  
Concen: 14.405 ug/L  
RT: 4.67 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VW009732.D  
Acq: 05 Apr 2019 15:02

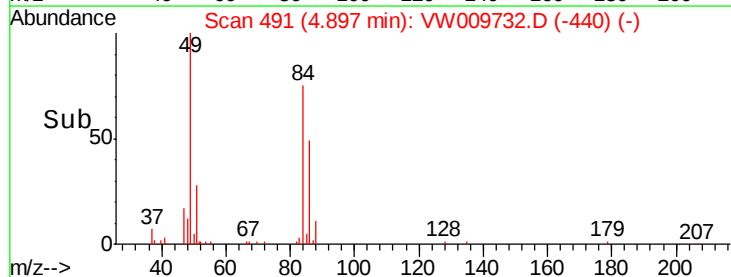
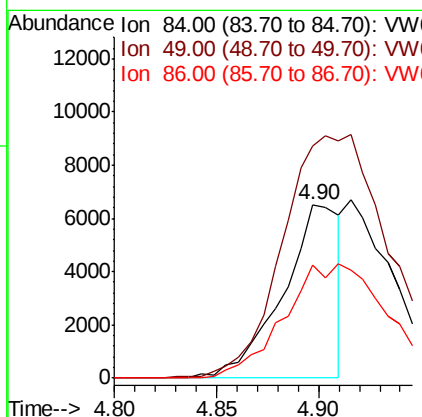
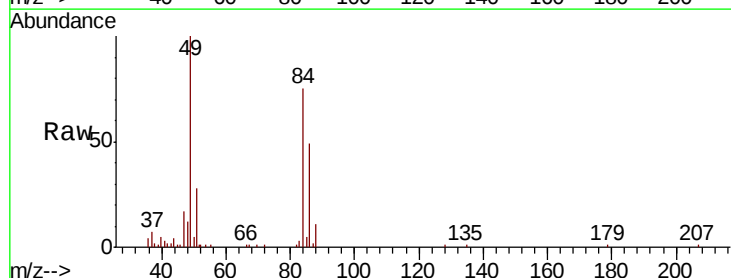
Instrument :  
MSVOA\_W  
ClientSampleId :  
BF5G6RE

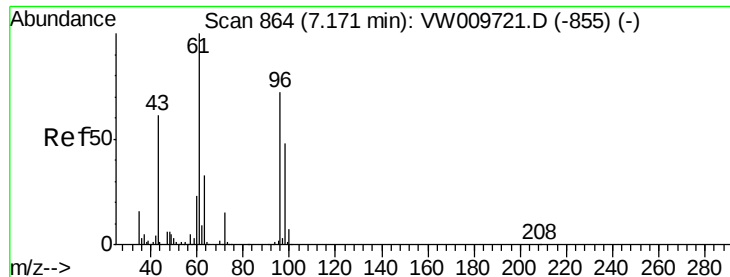
Tgt Ion: 43 Resp: 3820  
Ion Ratio Lower Upper  
43 100  
74 11.9 17.2 25.8#



#16  
Methylene chloride  
Concen: 22.536 ug/L  
RT: 4.90 min Scan# 491  
Delta R.T. -0.02 min  
Lab File: VW009732.D  
Acq: 05 Apr 2019 15:02

Tgt Ion: 84 Resp: 12698  
Ion Ratio Lower Upper  
84 100  
49 134.1 98.3 182.5  
86 65.4 46.4 86.2





#21

2-Butanone

Concen: 0.989 ug/L

RT: 7.47 min Scan# 913

Delta R.T. 0.30 min

Lab File: VW009732.D

Acq: 05 Apr 2019 15:02

Instrument :

MSVOA\_W

ClientSampleId :

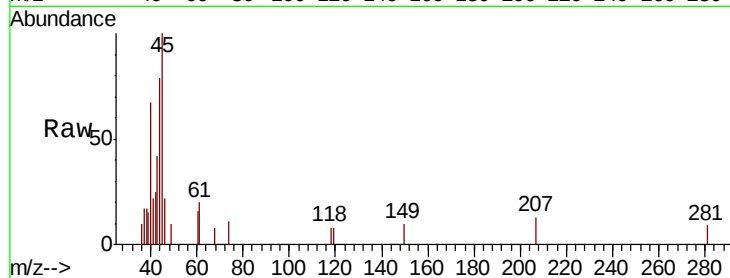
BF5G6RE

Tgt Ion: 43 Resp: 183

Ion Ratio Lower Upper

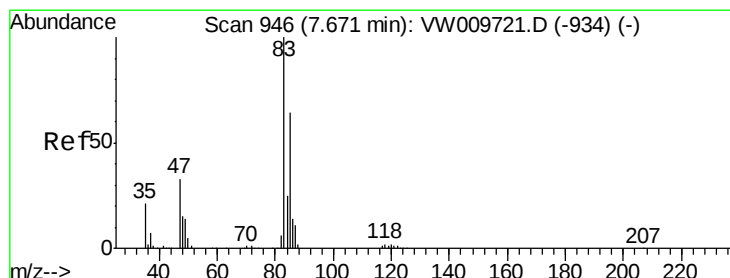
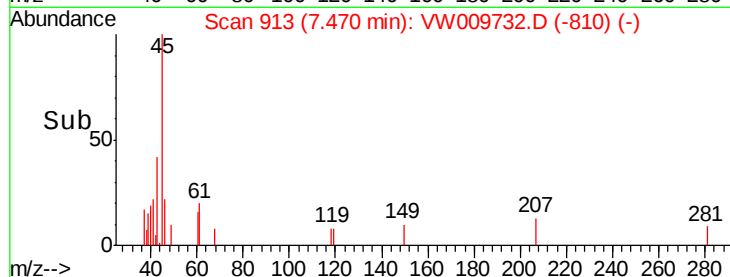
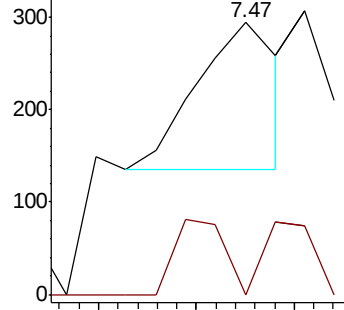
43 100

72 31.1 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#25

Chloroform

Concen: 0.564 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.01 min

Lab File: VW009732.D

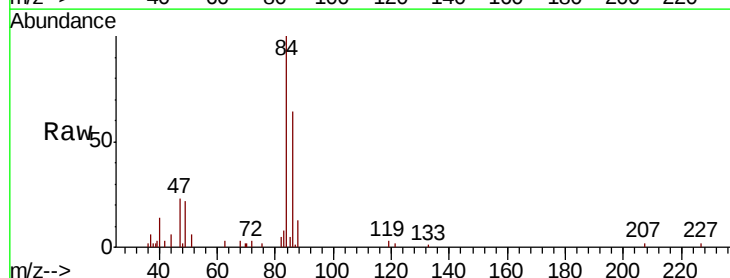
Acq: 05 Apr 2019 15:02

Tgt Ion: 83 Resp: 500

Ion Ratio Lower Upper

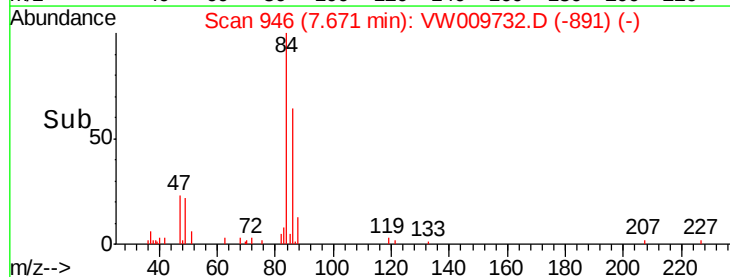
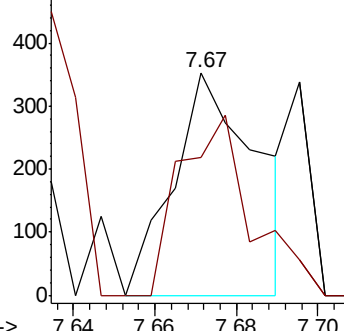
83 100

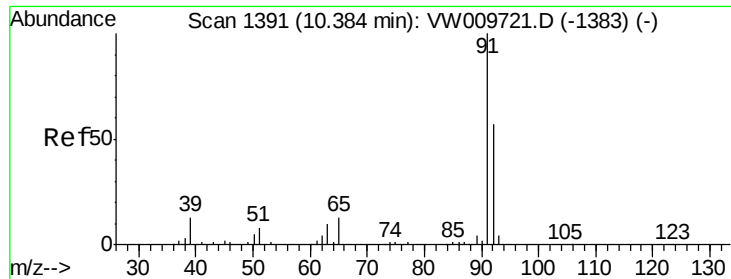
85 58.6 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#44

Toluene

Concen: 1.092 ug/L

RT: 10.40 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW009732.D

Acq: 05 Apr 2019 15:02

Instrument :

MSVOA\_W

ClientSampleId :

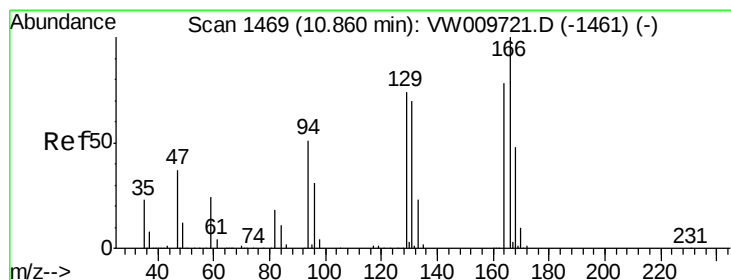
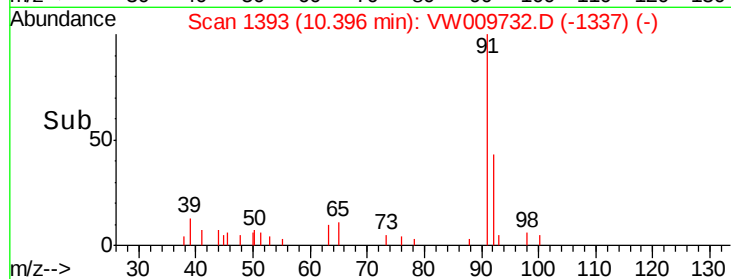
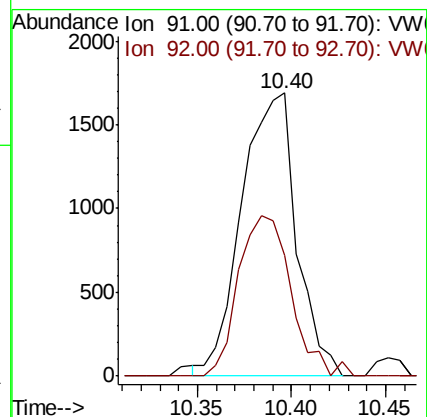
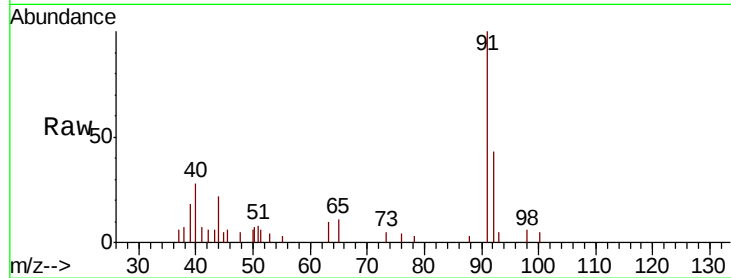
BF5G6RE

Tgt Ion: 91 Resp: 3412

Ion Ratio Lower Upper

91 100

92 42.7 40.5 75.1



#47

Tetrachloroethene

Concen: 0.562 ug/L

RT: 10.85 min Scan# 1468

Delta R.T. -0.01 min

Lab File: VW009732.D

Acq: 05 Apr 2019 15:02

Tgt Ion: 164 Resp: 342

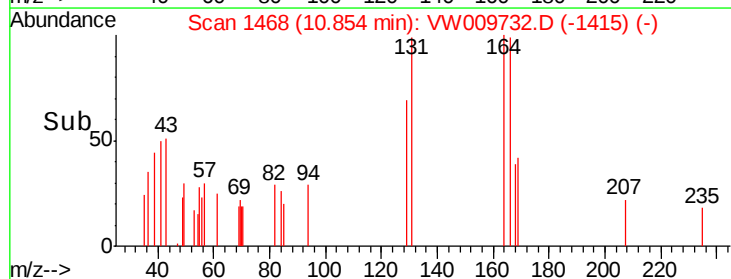
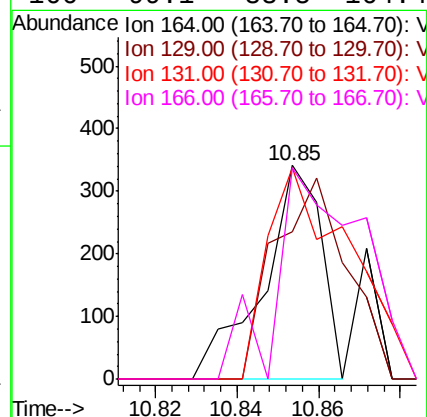
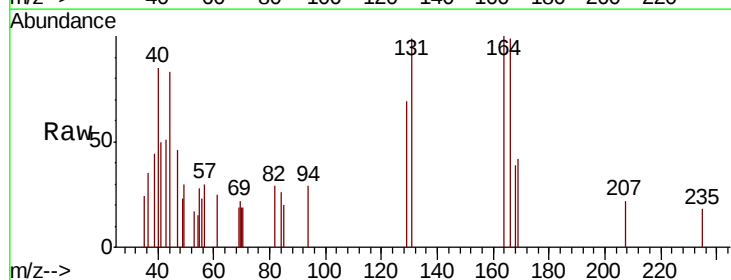
Ion Ratio Lower Upper

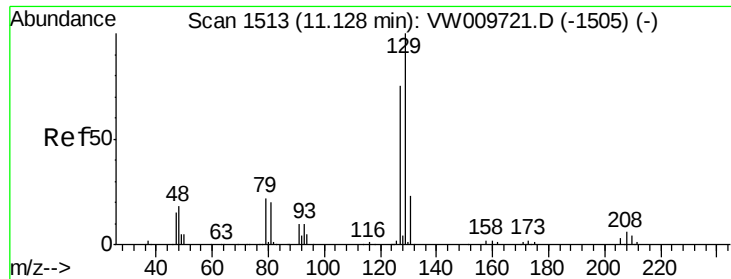
164 100

129 68.9 68.9 127.9

131 98.8 63.1 117.1

166 99.1 88.5 164.4

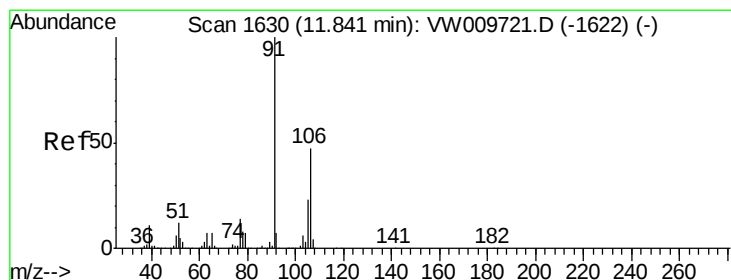
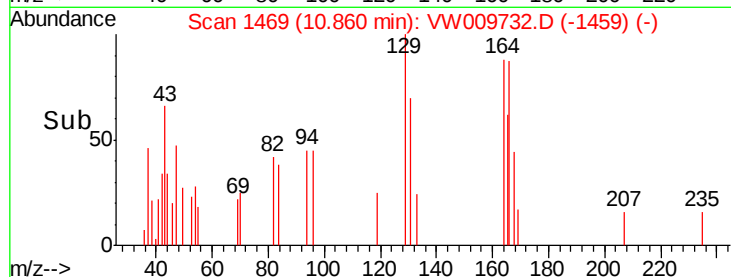
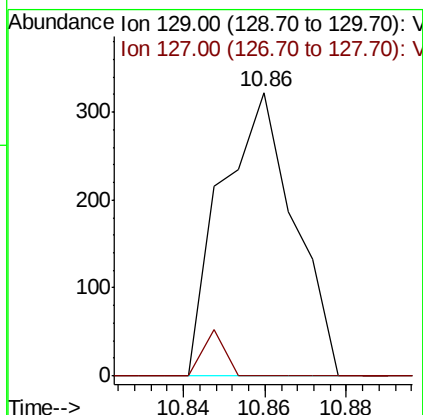
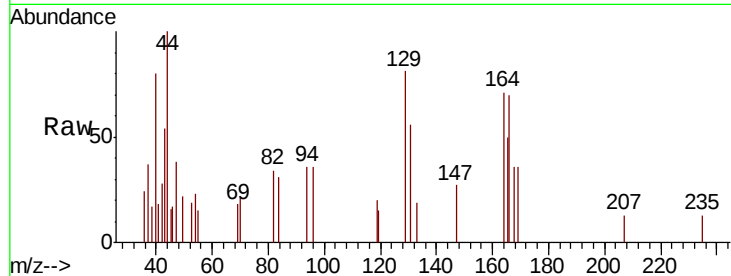




#50  
 Dibromochloromethane  
 Concen: 0.573 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. -0.27 min  
 Lab File: VW009732.D  
 Acq: 05 Apr 2019 15:02

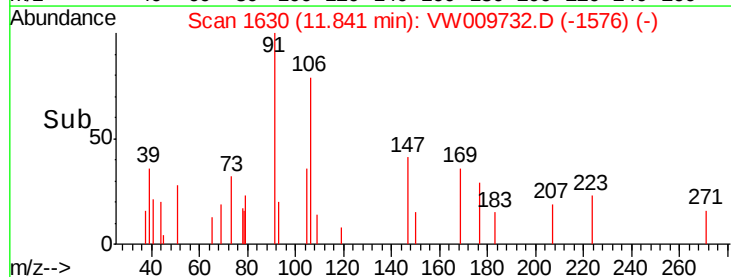
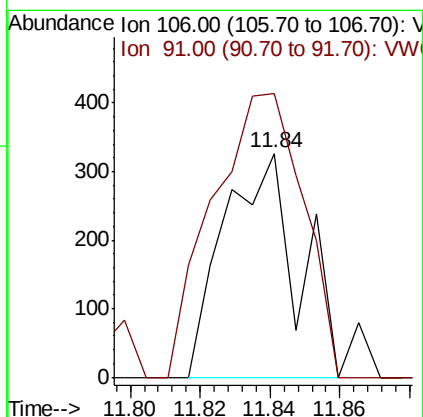
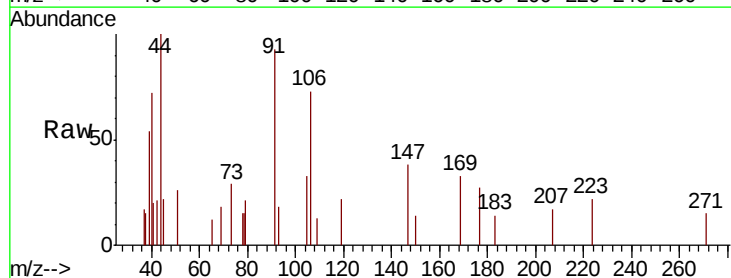
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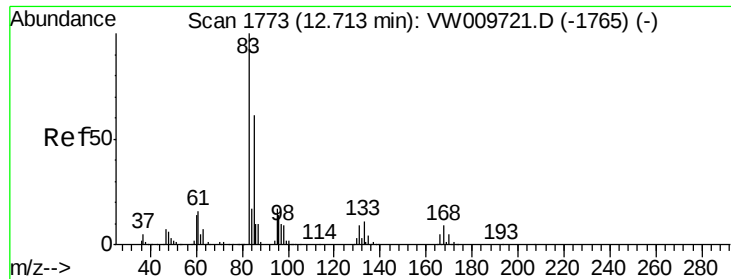
Tgt Ion:129 Resp: 399  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 53.0 98.4#



#54  
 m,p-Xylene  
 Concen: 0.367 ug/L  
 RT: 11.84 min Scan# 1630  
 Delta R.T. 0.00 min  
 Lab File: VW009732.D  
 Acq: 05 Apr 2019 15:02

Tgt Ion:106 Resp: 484  
 Ion Ratio Lower Upper  
 106 100  
 91 126.3 145.3 269.9#





#58

1,1,2,2-Tetrachloroethane

Concen: 0.359 ug/L

RT: 12.71 min Scan# 1772

Delta R.T. -0.01 min

Lab File: VW009732.D

Acq: 05 Apr 2019 15:02

Instrument :

MSVOA\_W

ClientSampleId :

BF5G6RE

Tgt Ion: 83 Resp: 274

Ion Ratio Lower Upper

83 100

85 141.3 44.9 83.3#

131 211.1 7.2 10.8#

