

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV040319\  
 Data File : VV010092.D  
 Acq On : 03 Apr 2019 15:00  
 Operator : SY/MD  
 Sample : K2215-06  
 Misc : 5.43G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF2M7

Quant Time: Apr 04 06:05:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 04 06:01:11 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 189704   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 177320   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 69604    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

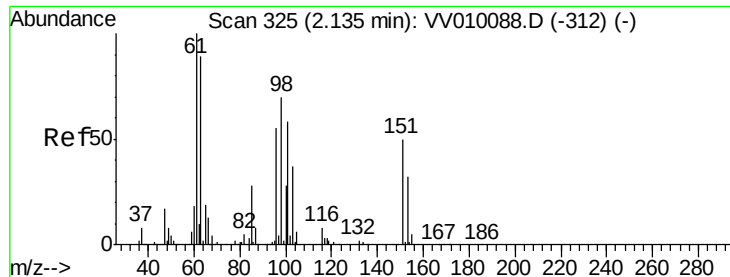
|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 48859    | 19.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 76.96%   |
| 7) Chloroethane-d5             | 1.57   | 69    | 64840    | 20.56    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.24%   |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 254801   | 39.77    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 159.08%# |
| 20) 2-Butanone-d5              | 3.94   | 46    | 39254    | 54.32    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 108.64%  |
| 24) Chloroform-d               | 4.40   | 84    | 104731   | 21.91    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 87.64%   |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 65024    | 24.32    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 97.28%   |
| 29) Benzene-d6                 | 5.10   | 84    | 216461   | 23.54    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 94.16%   |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 65663    | 24.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 96.80%   |
| 37) Toluene-d8                 | 7.36   | 98    | 189101   | 21.34    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 85.36%   |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 21190    | 18.27    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 73.08%   |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 29726    | 54.62    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 109.24%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 68231    | 25.49    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 101.96%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 60249    | 22.22    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 88.88%   |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 11) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 1935     | 0.634 | ug/L # | 19     |
| 13) Acetone                    | 2.20 | 43   | 5413     | 7.576 | ug/L   | 99     |
| 14) Carbon disulfide           | 2.32 | 76   | 1839     | 0.342 | ug/L # | 87     |
| 16) Methylene chloride         | 2.53 | 84   | 4063     | 1.219 | ug/L   | 88     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96   | 8739     | 3.474 | ug/L   | 96     |
| 25) Chloroform                 | 4.42 | 83   | 1746     | 0.405 | ug/L # | 1      |
| 27) 1,2-Dichloroethane         | 5.18 | 62   | 1997     | 0.679 | ug/L # | 84     |
| 35) Trichloroethene            | 5.96 | 95   | 20918    | 8.381 | ug/L   | 97     |
| 44) Toluene                    | 7.43 | 91   | 91270    | 9.378 | ug/L   | 94     |
| 45) trans-1,3-Dichloropropene  | 7.66 | 75   | 1274     | 0.472 | ug/L   | 96     |
| 46) 1,1,2-Trichloroethane      | 7.88 | 97   | 4542     | 2.338 | ug/L # | 52     |
| 52) Chlorobenzene              | 8.92 | 112  | 5291     | 0.797 | ug/L # | 92     |

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





#11

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

Concen: 0.634 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV010092.D

Acq: 03 Apr 2019 15:00

Instrument :

MSVOA\_V

ClientSampleId :

BF2M7

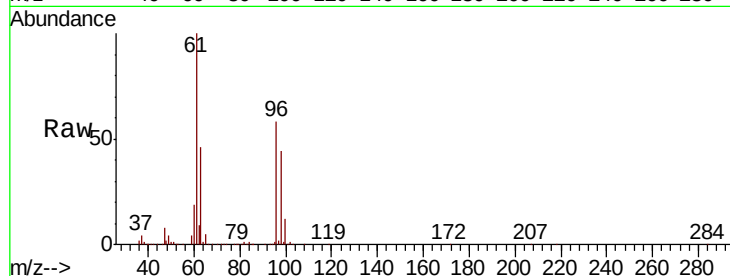
Tgt Ion:101 Resp: 1935

Ion Ratio Lower Upper

101 100

85 4.9 37.3 55.9#

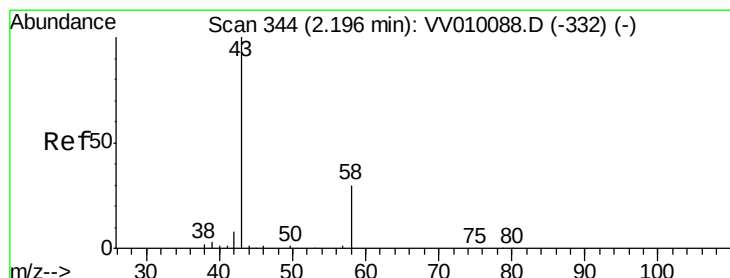
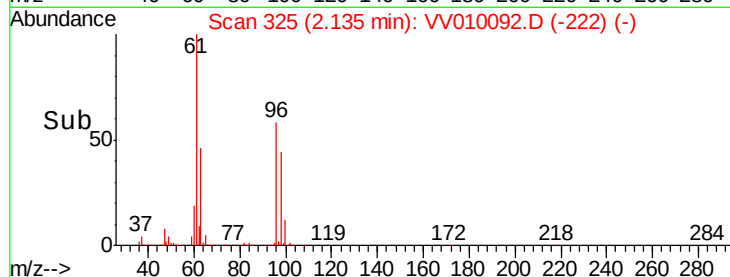
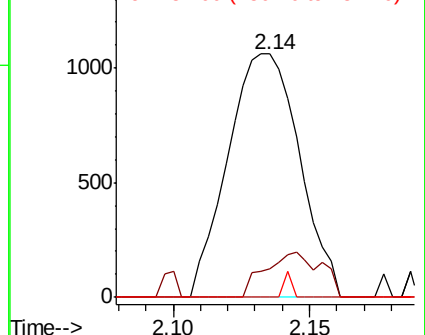
151 0.0 65.4 98.2#



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



#13

Acetone

Concen: 7.576 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.00 min

Lab File: VV010092.D

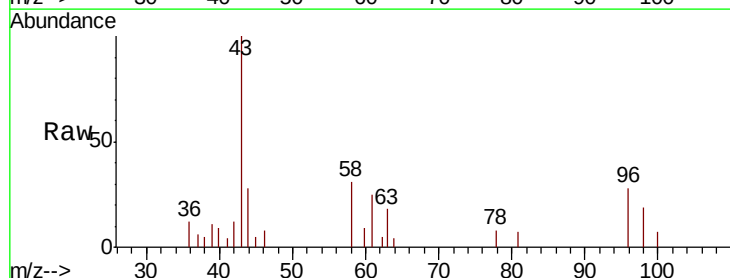
Acq: 03 Apr 2019 15:00

Tgt Ion: 43 Resp: 5413

Ion Ratio Lower Upper

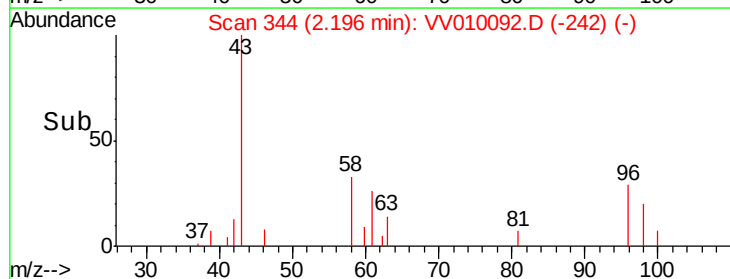
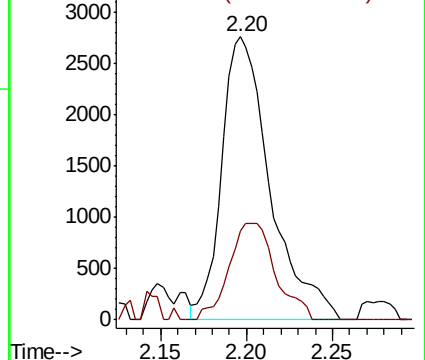
43 100

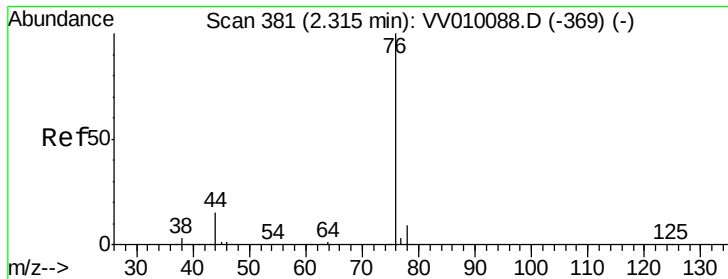
58 31.9 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0





#14

Carbon disulfide

Concen: 0.342 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV010092.D

Acq: 03 Apr 2019 15:00

Instrument :

MSVOA\_V

ClientSampled :

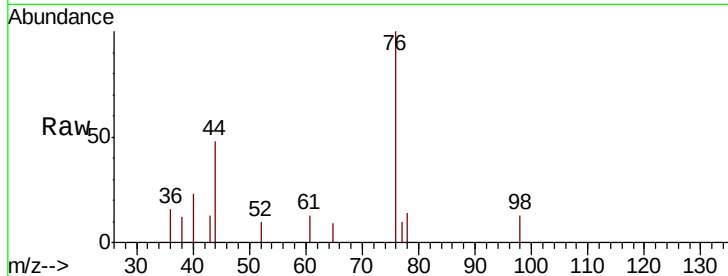
BF2M7

Tgt Ion: 76 Resp: 1839

Ion Ratio Lower Upper

76 100

78 13.6 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

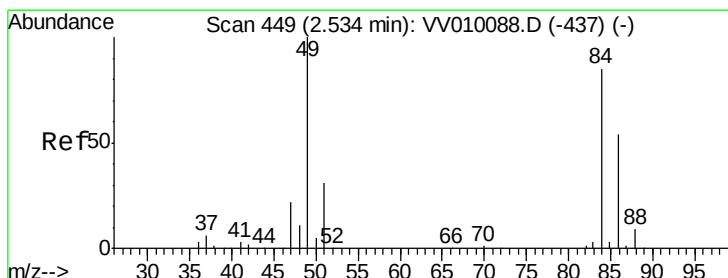
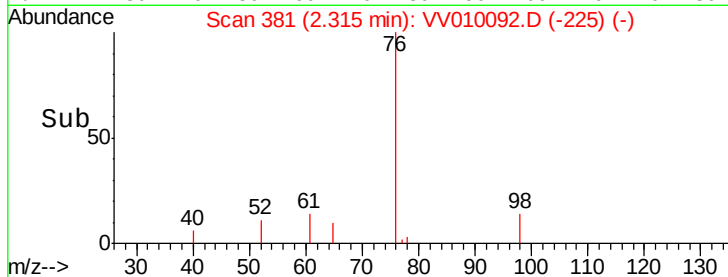
1500

1000

500

0

Time-->



#16

Methylene chloride

Concen: 1.219 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV010092.D

Acq: 03 Apr 2019 15:00

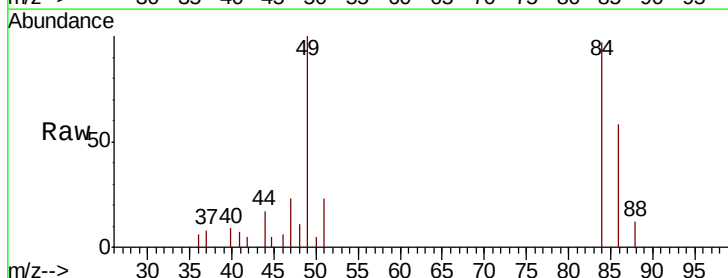
Tgt Ion: 84 Resp: 4063

Ion Ratio Lower Upper

84 100

49 103.1 84.3 156.5

86 60.2 45.4 84.2



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

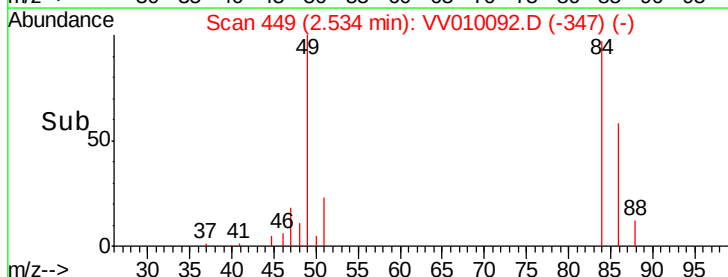
3000

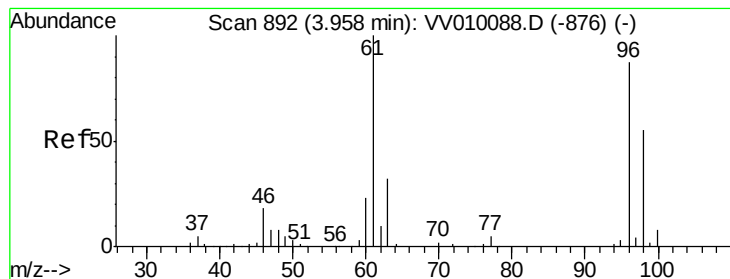
2000

1000

0

Time-->





#22

cis-1,2-Dichloroethene

Concen: 3.474 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV010092.D

Acq: 03 Apr 2019 15:00

Instrument :

MSVOA\_V

ClientSampleId :

BF2M7

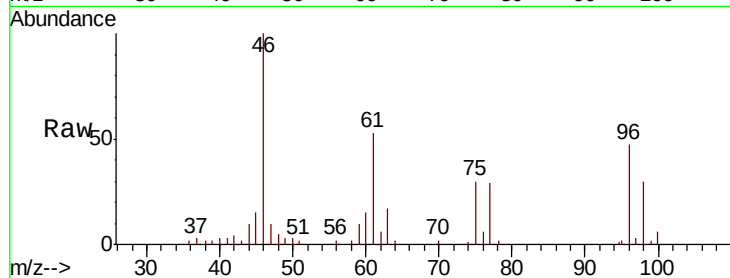
Tgt Ion: 96 Resp: 8739

Ion Ratio Lower Upper

96 100

61 112.0 82.7 153.5

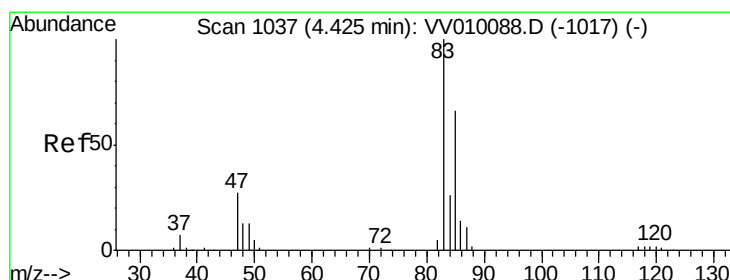
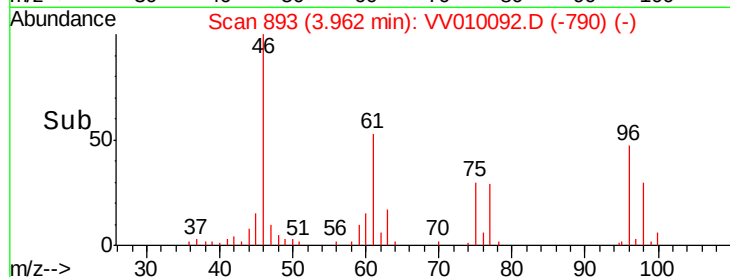
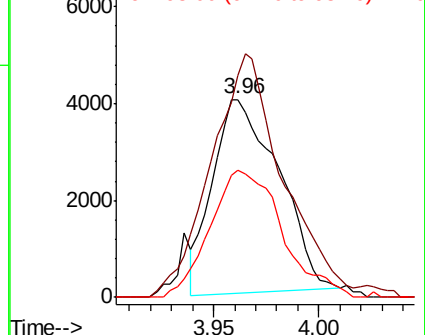
98 64.0 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#25

Chloroform

Concen: 0.405 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV010092.D

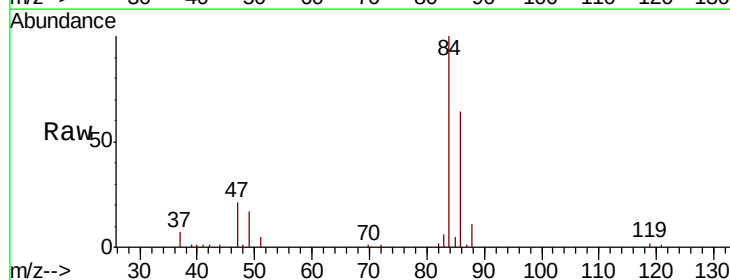
Acq: 03 Apr 2019 15:00

Tgt Ion: 83 Resp: 1746

Ion Ratio Lower Upper

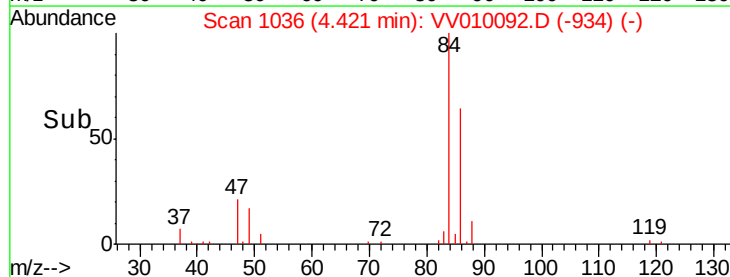
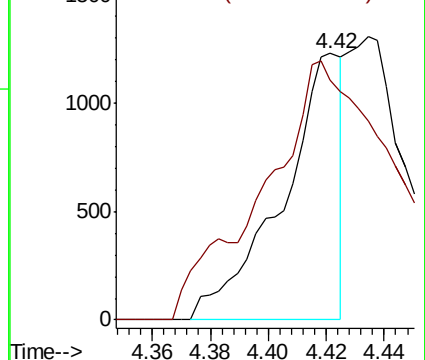
83 100

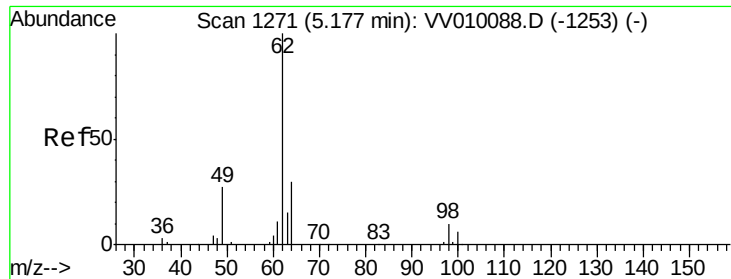
85 191.8 46.4 86.2#



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

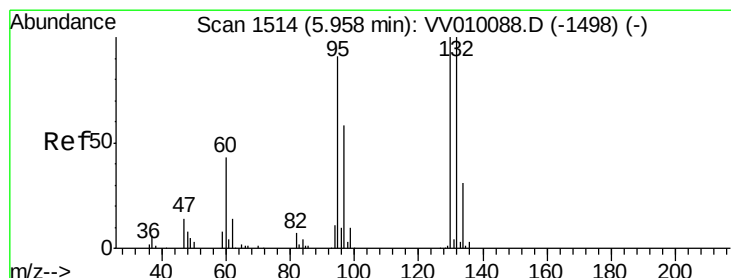
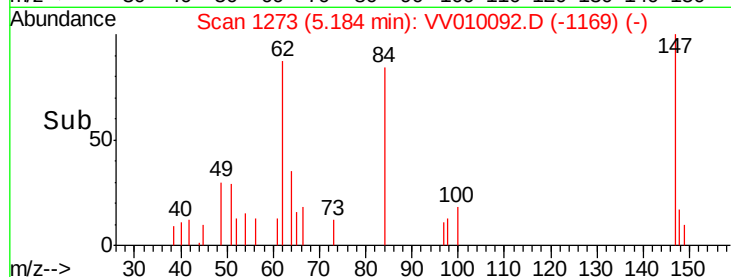
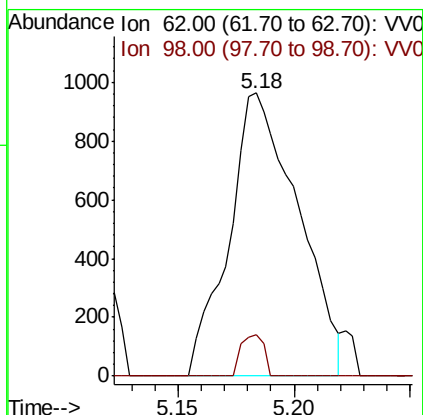
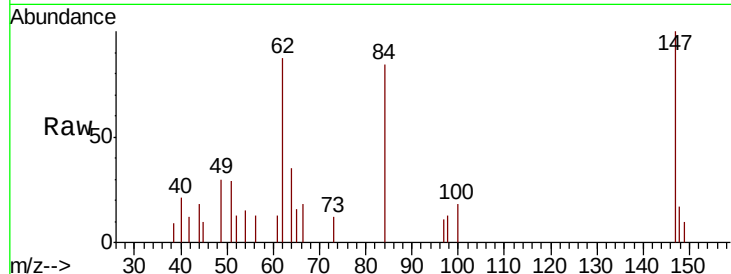




#27  
 1,2-Dichloroethane  
 Concen: 0.679 ug/L  
 RT: 5.18 min Scan# 1273  
 Delta R.T. 0.00 min  
 Lab File: VV010092.D  
 Acq: 03 Apr 2019 15:00

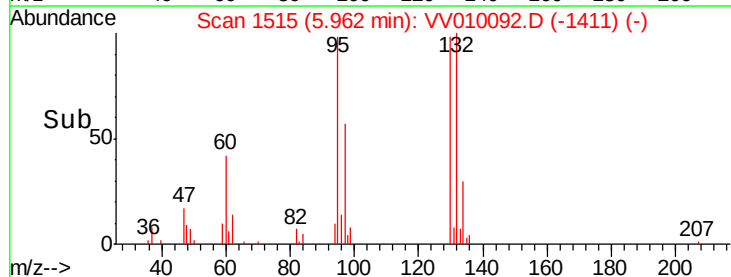
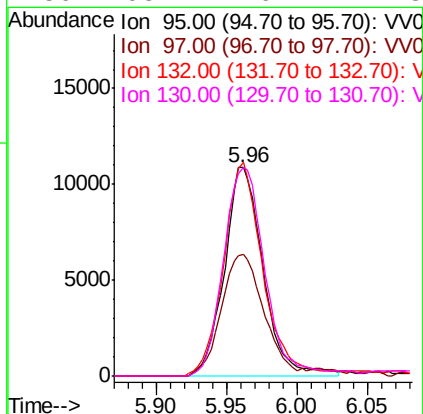
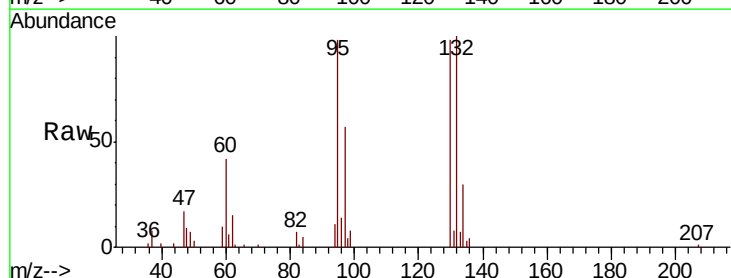
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BF2M7

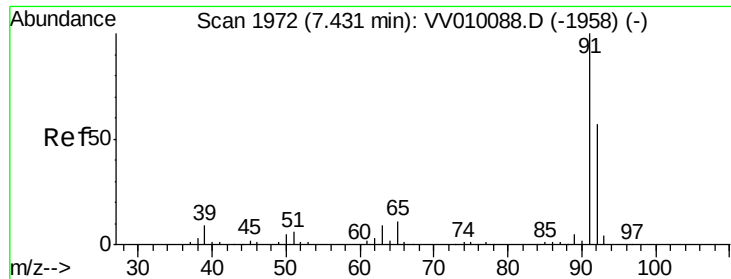
Tgt Ion: 62 Resp: 1997  
 Ion Ratio Lower Upper  
 62 100  
 98 14.7 7.2 10.8#



#35  
 Trichloroethene  
 Concen: 8.381 ug/L  
 RT: 5.96 min Scan# 1515  
 Delta R.T. 0.00 min  
 Lab File: VV010092.D  
 Acq: 03 Apr 2019 15:00

Tgt Ion: 95 Resp: 20918  
 Ion Ratio Lower Upper  
 95 100  
 97 63.9 45.8 85.2  
 132 103.3 70.6 131.0  
 130 105.7 76.1 141.3

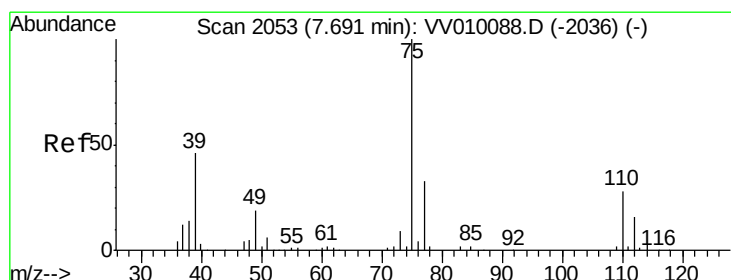
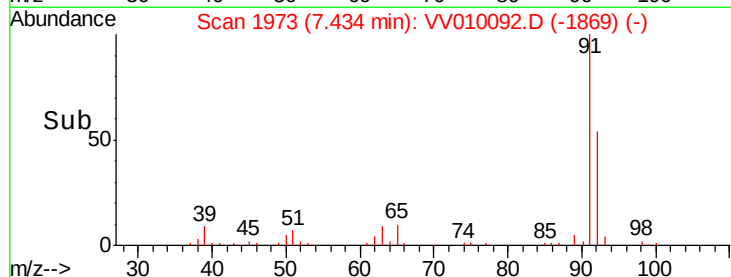
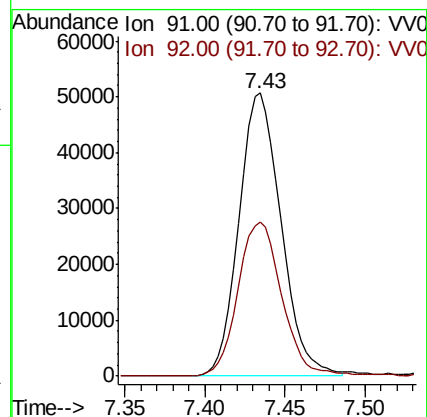
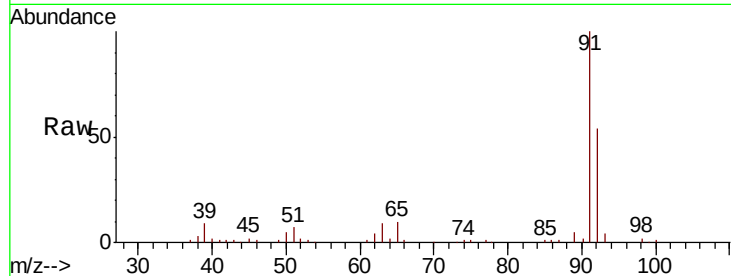




#44  
Toluene  
Concen: 9.378 ug/L  
RT: 7.43 min Scan# 1973  
Delta R.T. 0.00 min  
Lab File: VV010092.D  
Acq: 03 Apr 2019 15:00

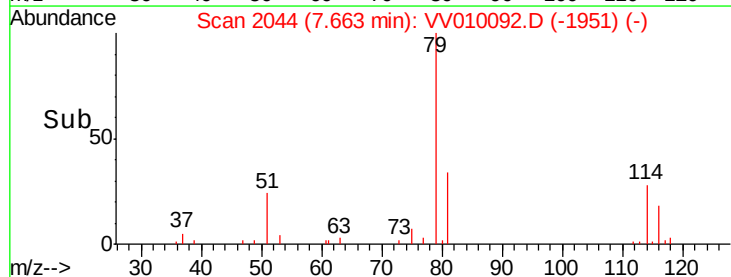
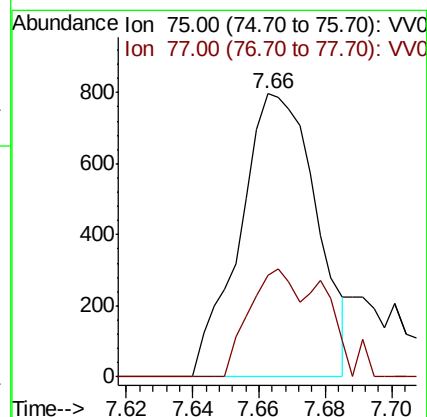
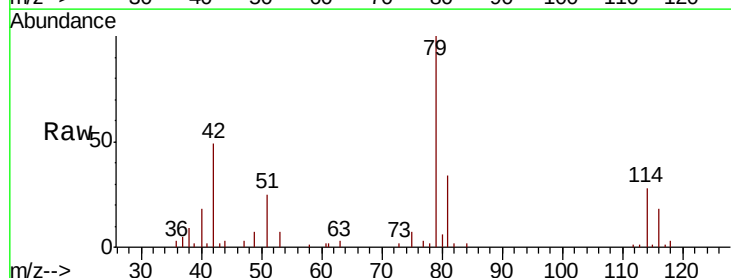
Instrument :  
MSVOA\_V  
ClientSampleId :  
BF2M7

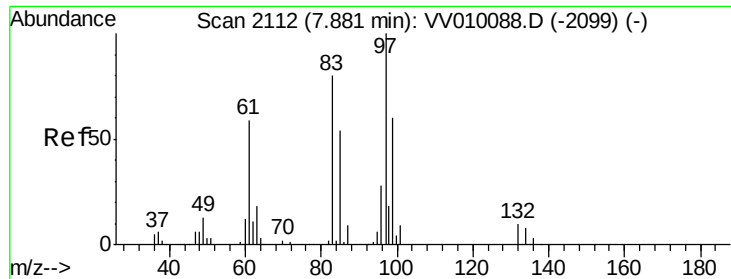
Tgt Ion: 91 Resp: 91270  
Ion Ratio Lower Upper  
91 100  
92 54.5 41.0 76.2



#45  
trans-1,3-Dichloropropene  
Concen: 0.472 ug/L  
RT: 7.66 min Scan# 2044  
Delta R.T. -0.03 min  
Lab File: VV010092.D  
Acq: 03 Apr 2019 15:00

Tgt Ion: 75 Resp: 1274  
Ion Ratio Lower Upper  
75 100  
77 35.8 23.5 43.7

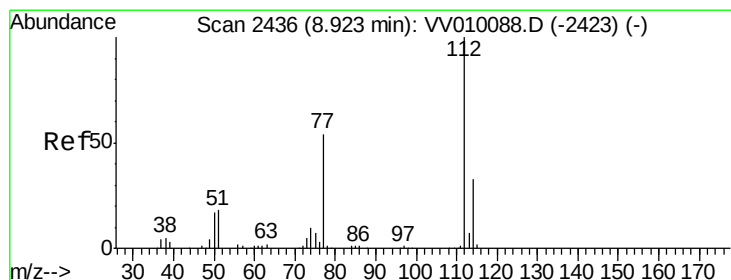
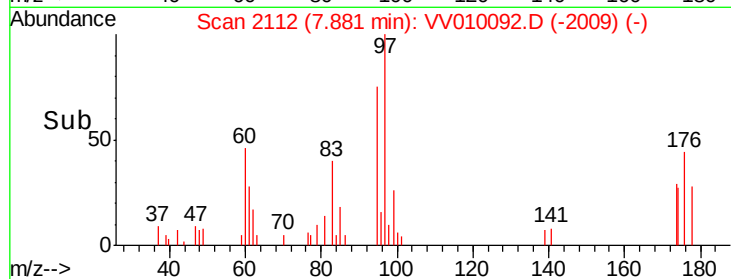
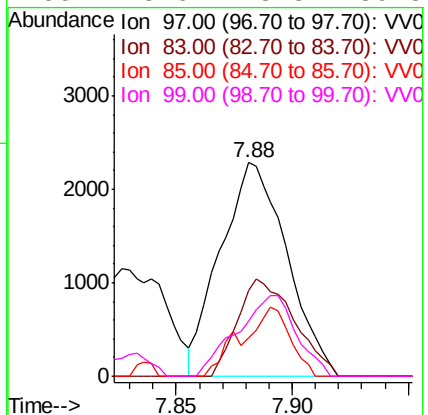
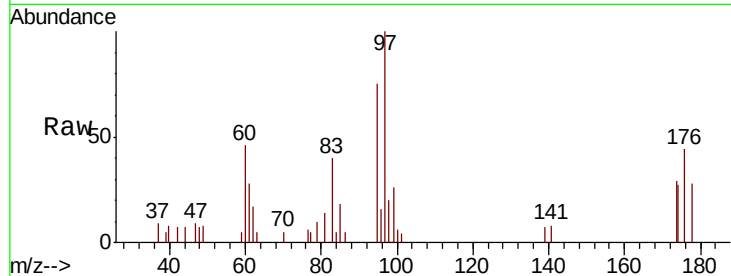




#46  
 1,1,2-Trichloroethane  
 Concen: 2.338 ug/L  
 RT: 7.88 min Scan# 2112  
 Delta R.T. 0.00 min  
 Lab File: VV010092.D  
 Acq: 03 Apr 2019 15:00

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF2M7

Tgt Ion: 97 Resp: 4542  
 Ion Ratio Lower Upper  
 97 100  
 83 40.0 58.5 108.7#  
 85 18.2 37.2 69.2#  
 99 25.6 43.3 80.3#



#52  
 Chlorobenzene  
 Concen: 0.797 ug/L  
 RT: 8.92 min Scan# 2436  
 Delta R.T. -0.00 min  
 Lab File: VV010092.D  
 Acq: 03 Apr 2019 15:00

Tgt Ion: 112 Resp: 5291  
 Ion Ratio Lower Upper  
 112 100  
 77 53.1 42.9 64.3  
 114 44.6 23.4 43.4#

