

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052919\  
 Data File : VV011114.D  
 Acq On : 29 May 2019 18:36  
 Operator : SY/MD  
 Sample : K3017-19MSD  
 Misc : 4.47G/10ML/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A51F0MSD

Quant Time: May 30 04:41:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM052819S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu May 30 03:51:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 377628   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 315348   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 98428    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 109282   | 21.11    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 84.44%   |
| 7) Chloroethane-d5             | 1.56   | 69    | 86571    | 23.43    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.72%   |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 223845   | 23.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 92.96%   |
| 20) 2-Butanone-d5              | 3.93   | 46    | 119055   | 66.72    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 133.44%  |
| 24) Chloroform-d               | 4.40   | 84    | 207954   | 22.71    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 90.84%   |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 140058   | 23.92    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 95.68%   |
| 29) Benzene-d6                 | 5.09   | 84    | 430977   | 23.34    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 93.36%   |
| 33) 1,2-Dichloropropane-d6     | 6.11   | 67    | 145021   | 24.69    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 98.76%   |
| 37) Toluene-d8                 | 7.36   | 98    | 380326   | 22.35    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 89.40%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 63379    | 23.16    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.64%   |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 92250    | 72.08    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 144.16%# |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 123999   | 24.55    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 98.20%   |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 78361    | 20.13    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 80.52%   |

## Target Compounds

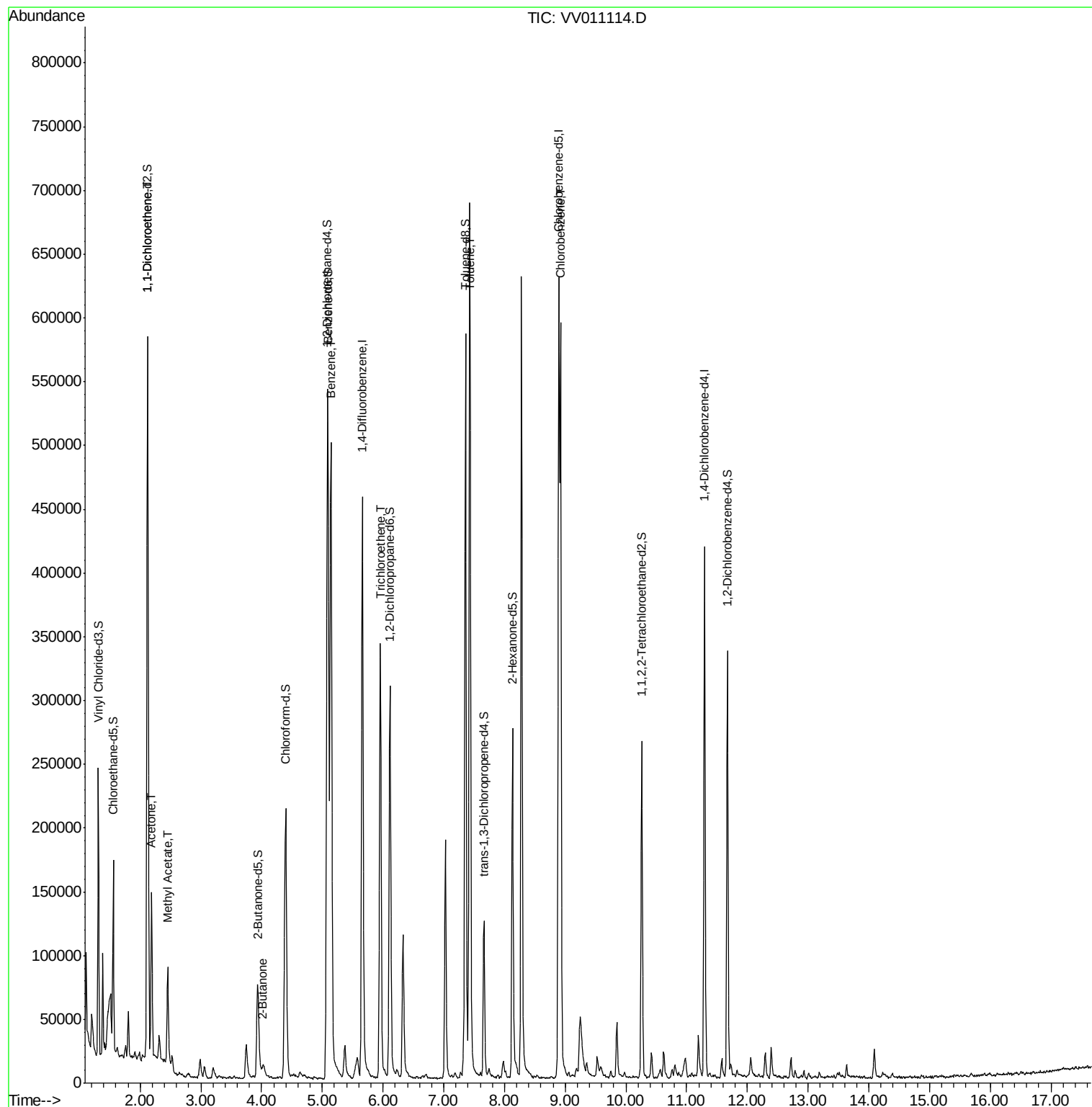
| Target Compounds       | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|------------------------|------|------|----------|--------|--------|--------|
| 12) 1,1-Dichloroethene | 2.13 | 96   | 94088    | 24.817 | ug/L   | 99     |
| 13) Acetone            | 2.19 | 43   | 123288   | 60.988 | ug/L   | 99     |
| 15) Methyl Acetate     | 2.45 | 43   | 76249    | 26.132 | ug/L # | 100    |
| 21) 2-Butanone         | 4.03 | 43   | 14675    | 5.895  | ug/L   | 95     |
| 34) Benzene            | 5.14 | 78   | 467507   | 24.516 | ug/L   | 100    |
| 35) Trichloroethene    | 5.96 | 95   | 114588   | 23.008 | ug/L   | 99     |
| 44) Toluene            | 7.43 | 91   | 491086   | 23.686 | ug/L   | 97     |
| 52) Chlorobenzene      | 8.92 | 112  | 278042   | 21.639 | ug/L   | 98     |

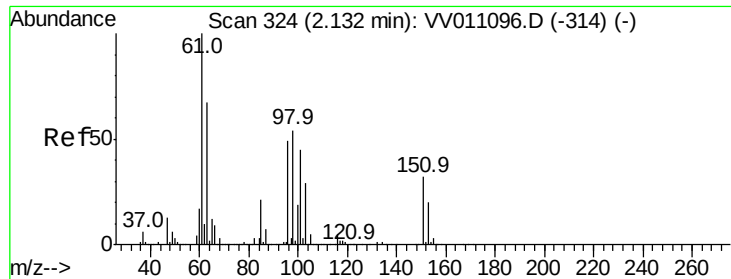
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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Quant Title : VOC Analysis  
QLast Update : Thu May 30 03:51:47 2019  
Response via : Initial Calibration

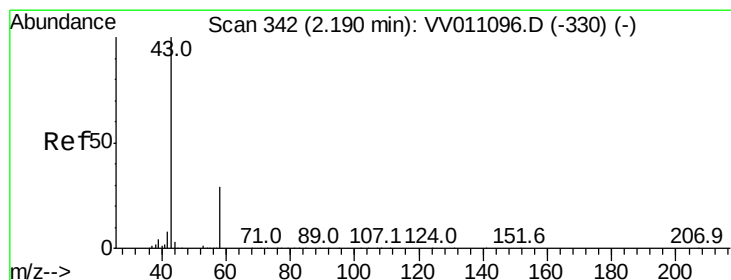
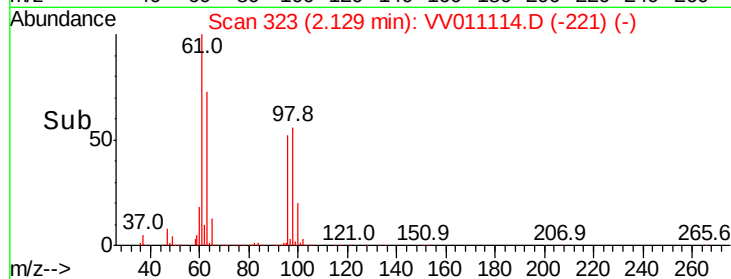
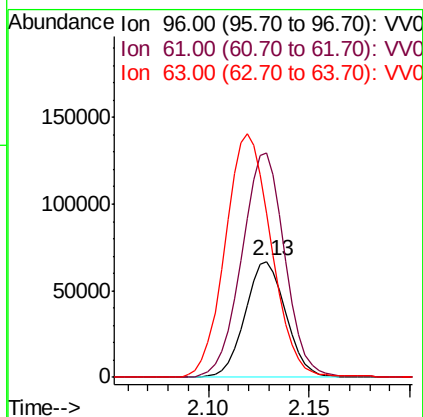
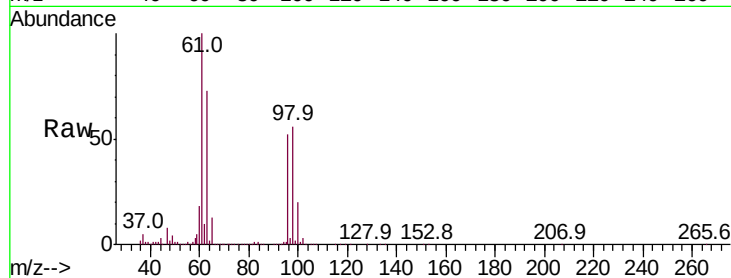




#12  
 1,1-Dichloroethene  
 Concen: 24.817 ug/L  
 RT: 2.13 min Scan# 323  
 Delta R.T. -0.00 min  
 Lab File: VV011114.D  
 Acq: 29 May 2019 18:36

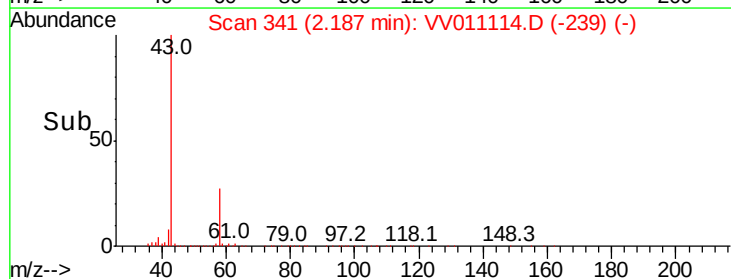
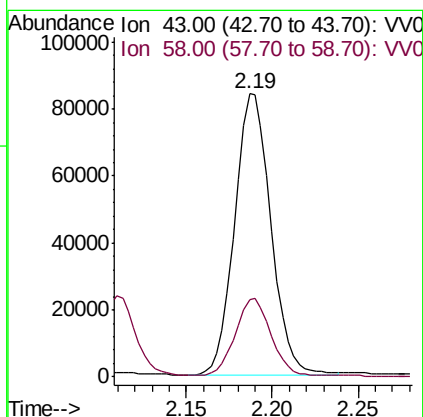
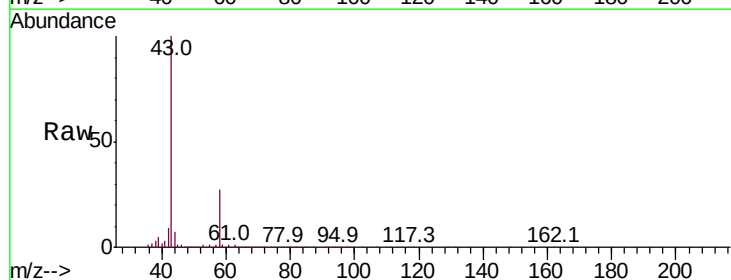
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 A51F0MSD

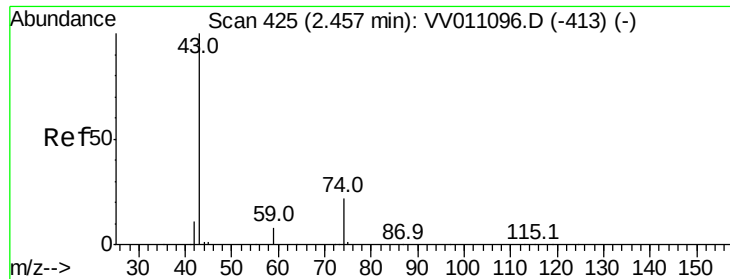
Tot Ion: 96 Resp: 94088  
 Ion Ratio Lower Upper  
 96 100  
 61 193.7 134.1 249.1  
 63 141.7 98.1 182.3



#13  
 Acetone  
 Concen: 60.988 ug/L  
 RT: 2.19 min Scan# 341  
 Delta R.T. -0.00 min  
 Lab File: VV011114.D  
 Acq: 29 May 2019 18:36

Tgt Ion: 43 Resp: 123288  
 Ion Ratio Lower Upper  
 43 100  
 58 27.0 0.0 54.8

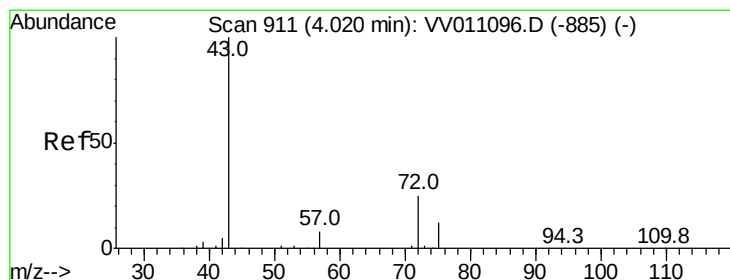
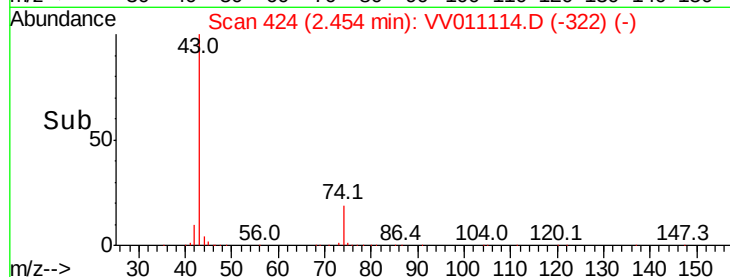
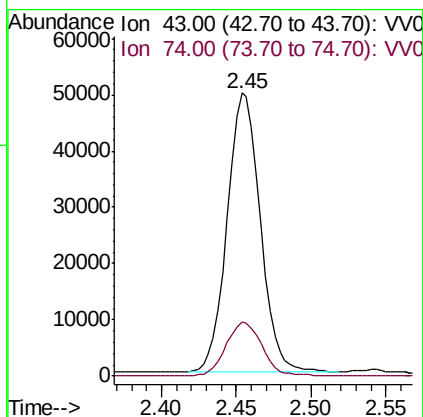
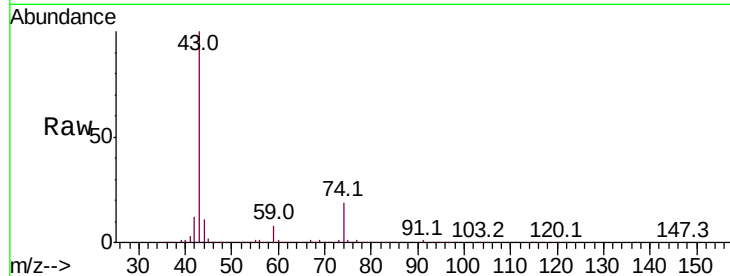




#15  
Methvl Acetate  
Concen: 26.132 ug/L  
RT: 2.45 min Scan# 424  
Delta R.T. -0.00 min  
Lab File: VV011114.D  
Acq: 29 May 2019 18:36

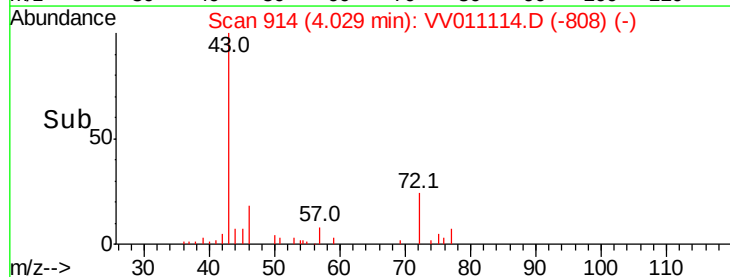
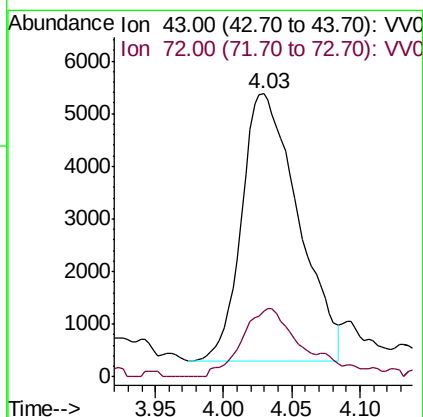
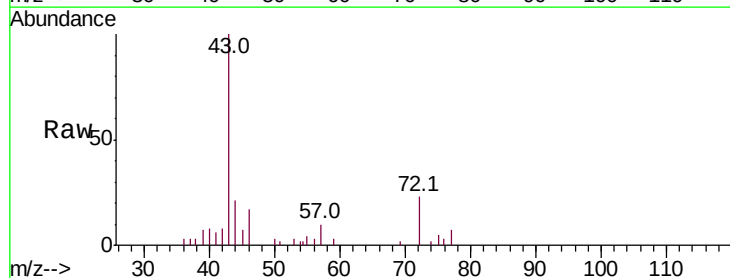
Instrument :  
MSVOA\_V  
ClientSampleId :  
A51F0MSD

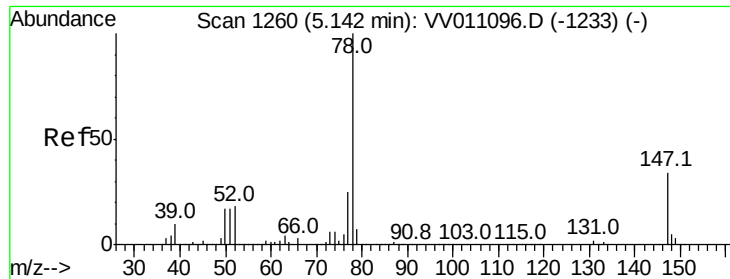
Tot Ion: 43 Resp: 76249  
Ion Ratio Lower Upper  
43 100  
74 20.6 0.0 0.0#



#21  
2-Butanone  
Concen: 5.895 ug/L  
RT: 4.03 min Scan# 914  
Delta R.T. 0.01 min  
Lab File: VV011114.D  
Acq: 29 May 2019 18:36

Tgt Ion: 43 Resp: 14675  
Ion Ratio Lower Upper  
43 100  
72 23.8 10.7 31.9





#34

Benzene

Concen: 24.516 ug/L

RT: 5.14 min Scan# 1260

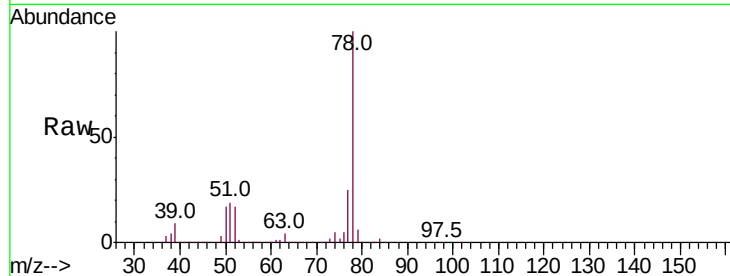
Delta R.T. -0.00 min

Lab File: VV011114.D

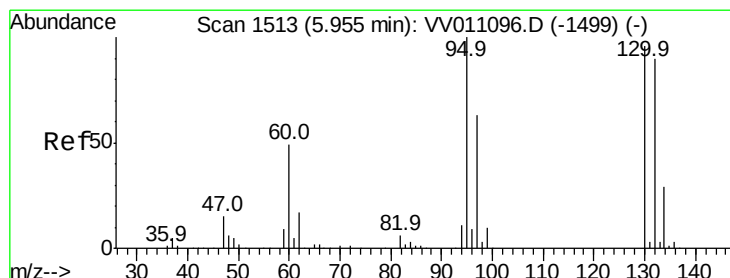
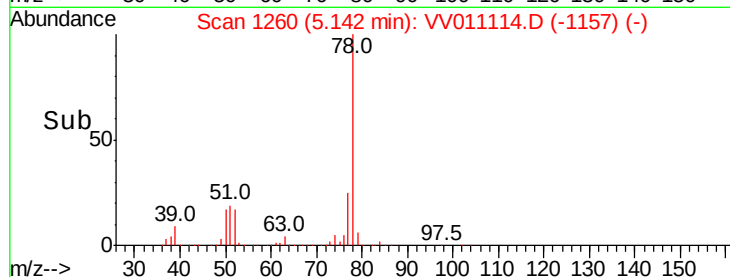
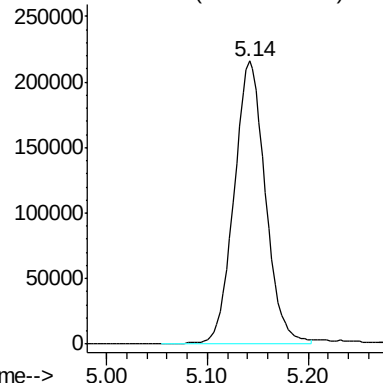
Acq: 29 May 2019 18:36

Instrument :  
MSVOA\_V  
ClientSampleId :  
A51F0MSD

Tgt Ion: 78 Resp: 467507



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Trichloroethene

Concen: 23.008 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV011114.D

Acq: 29 May 2019 18:36

Tgt Ion: 95 Resp: 114588

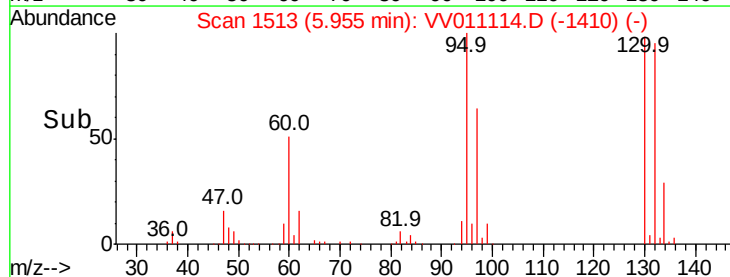
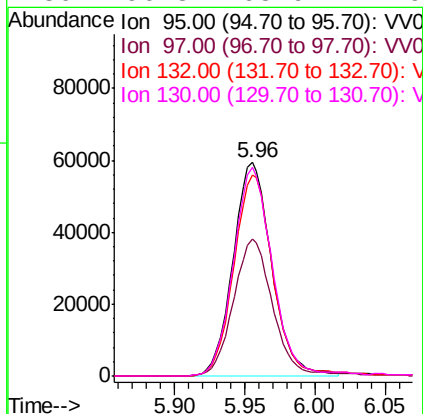
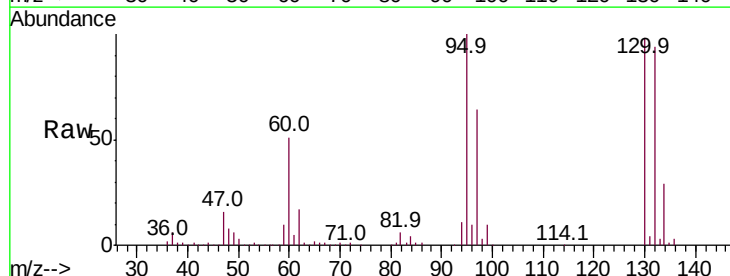
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.3  | 45.4  | 84.4  |
| 132 | 95.1  | 66.1  | 122.8 |
| 130 | 96.8  | 68.9  | 127.9 |

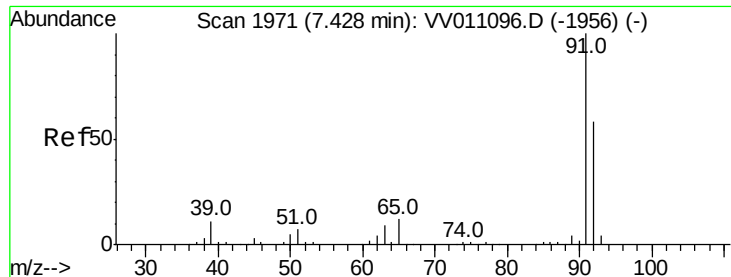
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





#44

Toluene

Concen: 23.686 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV011114.D

Acq: 29 May 2019 18:36

Instrument :

MSVOA\_V

ClientSampleId :

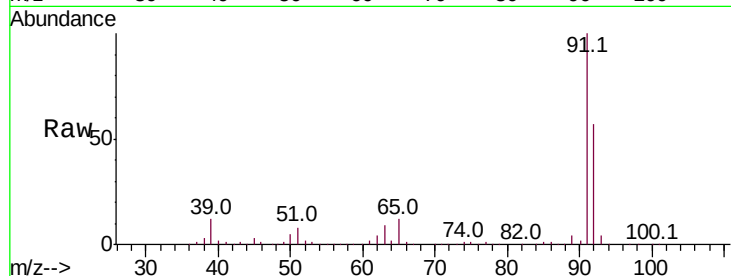
A51F0MSD

Tot Ion: 91 Resp: 491086

Ion Ratio Lower Upper

91 100

92 56.6 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV011096.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV011096.D (-1956) (-)

7.43

300000

250000

200000

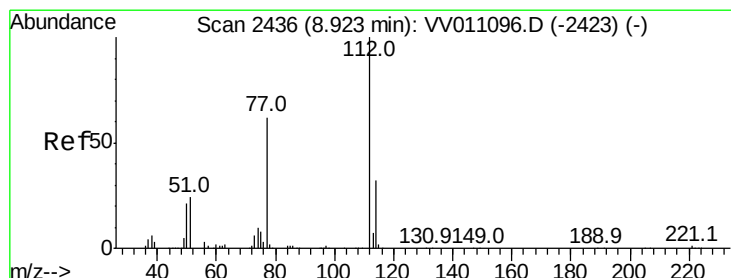
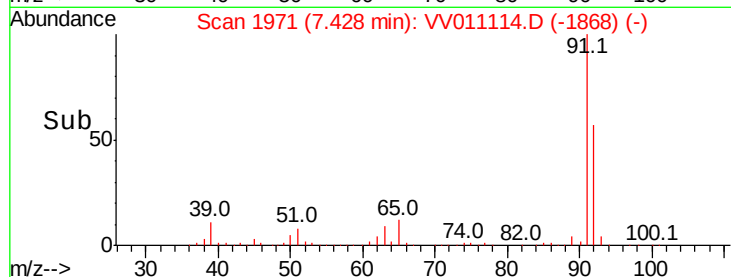
150000

100000

50000

0

Time-->



#52

Chlorobenzene

Concen: 21.639 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV011114.D

Acq: 29 May 2019 18:36

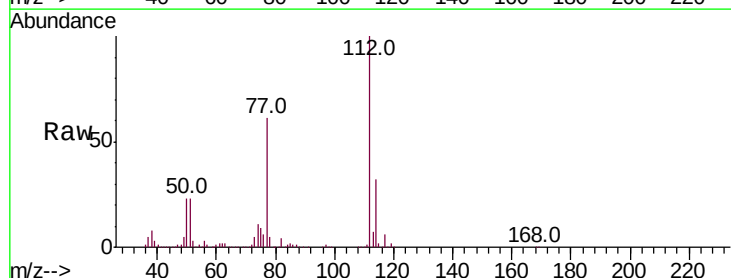
Tgt Ion: 112 Resp: 278042

Ion Ratio Lower Upper

112 100

77 61.2 50.8 76.2

114 32.1 22.7 42.1



Abundance Ion 112.00 (111.70 to 112.70): VV011096.D (-2423) (-)

Ion 77.00 (76.70 to 77.70): VV011096.D (-2423) (-)

Ion 114.00 (113.70 to 114.70): VV011096.D (-2423) (-)

8.92

200000

150000

100000

50000

0

Time-->

