

Data File : VW007978.D  
Acq On : 27 Dec 2018 19:11  
Operator : SY/AP  
Sample : J6540-06MSD  
Misc : 6.47G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
GAEN7MSD

Quant Time: Dec 28 05:59:57 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122618S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 28 05:56:01 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 68057    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 64535    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 30693    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 14709    | 21.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 87.72%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 10620    | 23.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 94.00%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 40100    | 22.08    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 88.32%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 15127    | 52.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.76% |
| 24) Chloroform-d               | 7.65   | 84    | 38915    | 21.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 85.96%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 27027    | 24.90    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 29) Benzene-d6                 | 8.27   | 84    | 76446    | 21.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 84.48%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 21328    | 21.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 86.64%  |
| 37) Toluene-d8                 | 10.32  | 98    | 72865    | 20.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 82.64%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 12367    | 21.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 87.52%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 12777    | 50.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.48% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 22892    | 24.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 96.64%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 28017    | 22.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 90.40%  |

#### Target Compounds

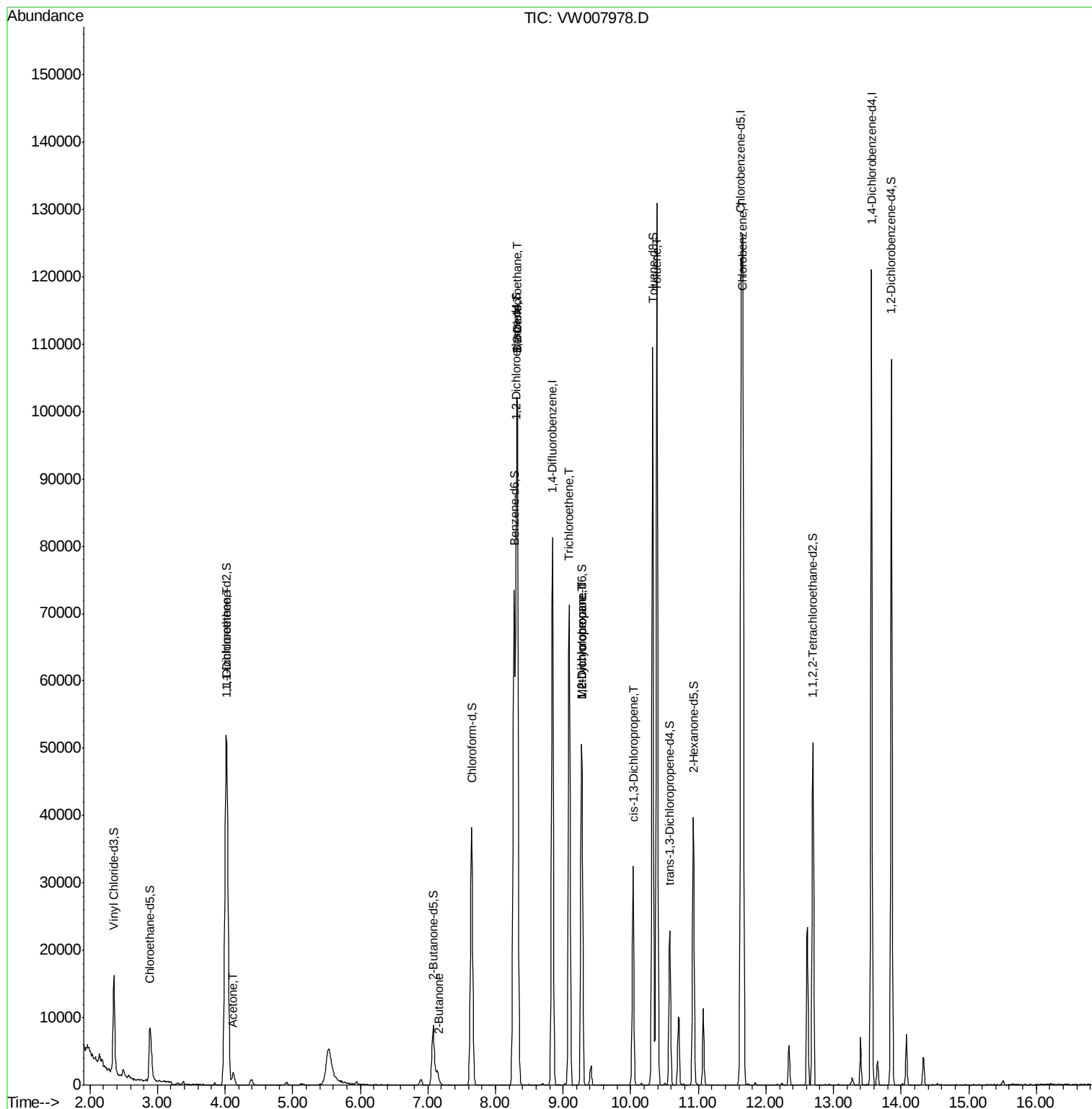
|                             |       |     |       |        |        | Qvalue |
|-----------------------------|-------|-----|-------|--------|--------|--------|
| 12) 1,1-Dichloroethene      | 4.03  | 96  | 19506 | 24.794 | ug/L   | 90     |
| 13) Acetone                 | 4.12  | 43  | 3209  | 11.483 | ug/L   | 98     |
| 21) 2-Butanone              | 7.17  | 43  | 311   | 0.978  | ug/L # | 46     |
| 27) 1,2-Dichloroethane      | 8.32  | 62  | 931   | 0.794  | ug/L # | 80     |
| 34) Benzene                 | 8.32  | 78  | 84566 | 24.488 | ug/L   | 100    |
| 35) Trichloroethene         | 9.09  | 95  | 23814 | 23.735 | ug/L   | 99     |
| 36) Methylcyclohexane       | 9.27  | 83  | 6003  | 3.489  | ug/L # | 20     |
| 40) 1,2-Dichloropropane     | 9.27  | 63  | 2894  | 3.565  | ug/L # | 86     |
| 42) cis-1,3-Dichloropropene | 10.03 | 75  | 945   | 0.667  | ug/L # | 79     |
| 44) Toluene                 | 10.39 | 91  | 95695 | 24.768 | ug/L   | 98     |
| 52) Chlorobenzene           | 11.66 | 112 | 62002 | 24.652 | ug/L   | 98     |

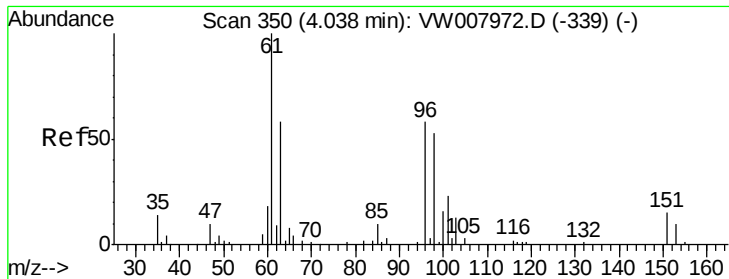
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 24.794 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW007978.D

Acq: 27 Dec 2018 19:11

Instrument :

MSVOA\_W

ClientSampleId :

GAEN7MSD

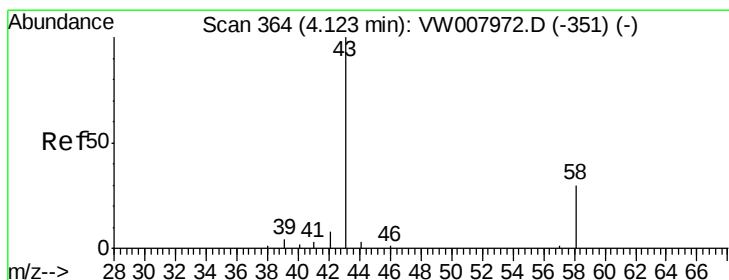
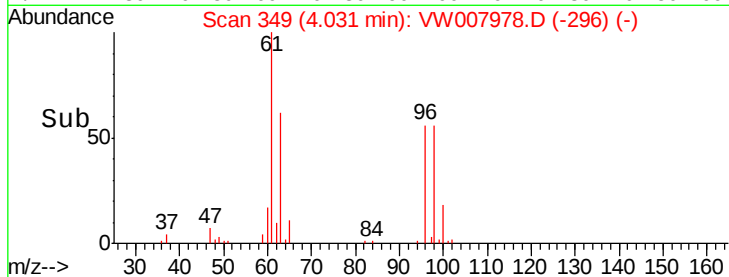
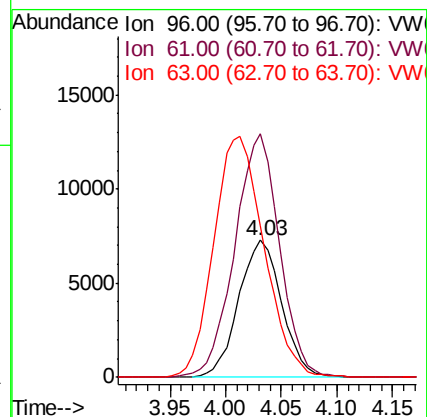
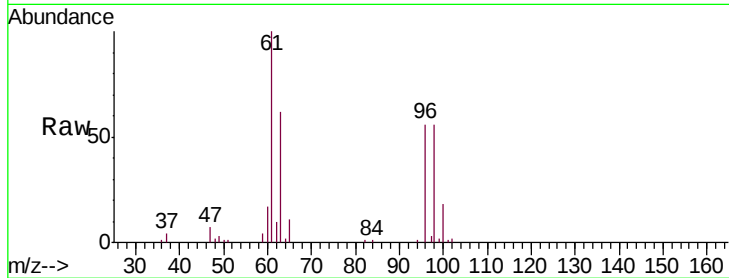
Tgt Ion: 96 Resp: 19506

Ion Ratio Lower Upper

96 100

61 177.8 120.3 223.3

63 110.3 91.6 170.0



#13

Acetone

Concen: 11.483 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW007978.D

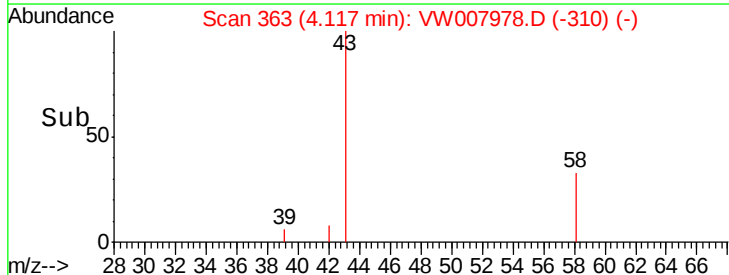
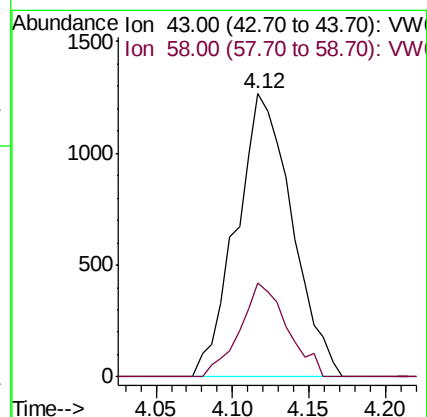
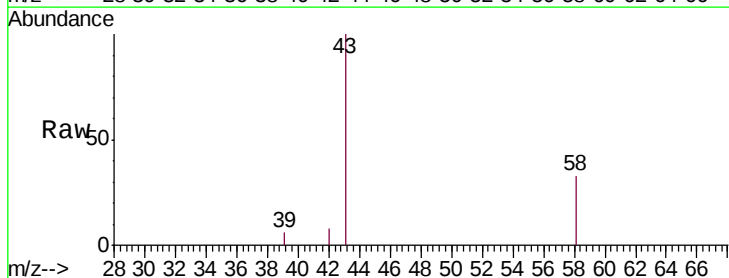
Acq: 27 Dec 2018 19:11

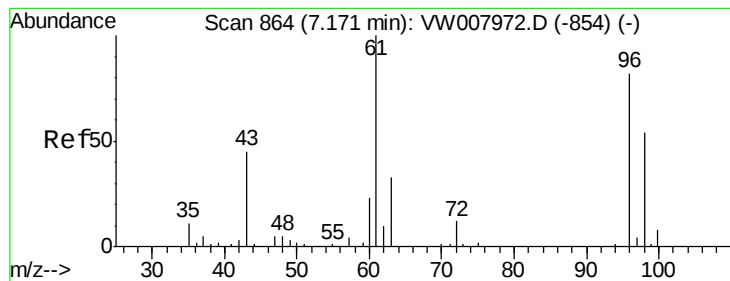
Tgt Ion: 43 Resp: 3209

Ion Ratio Lower Upper

43 100

58 28.3 0.0 58.6





#21

2-Butanone

Concen: 0.978 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW007978.D

Acq: 27 Dec 2018 19:11

Instrument :

MSVOA\_W

ClientSampleId :

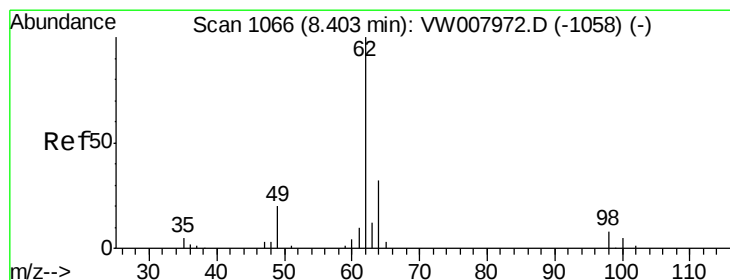
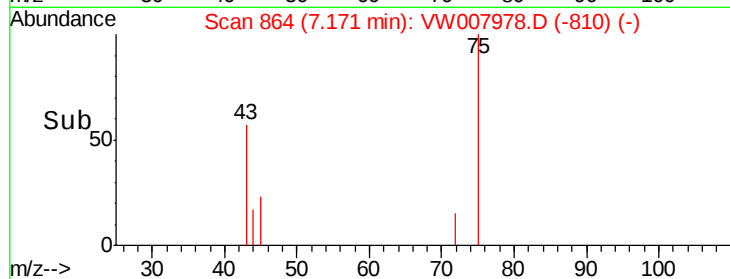
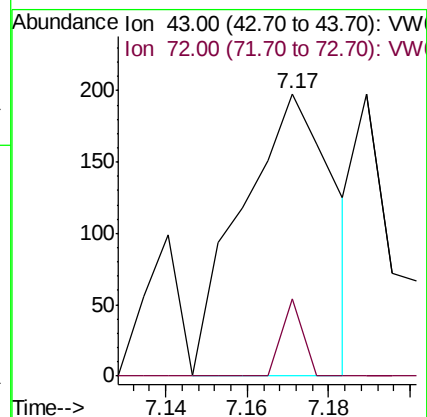
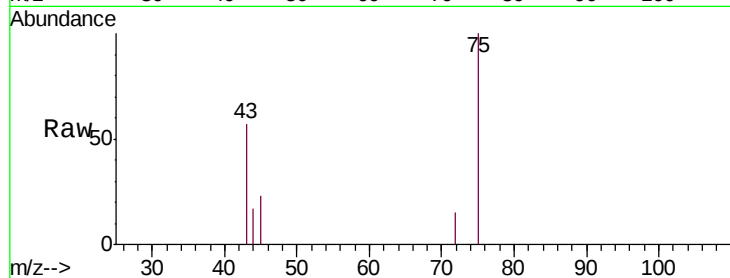
GAEN7MSD

Tgt Ion: 43 Resp: 311

Ion Ratio Lower Upper

43 100

72 0.0 14.4 43.4#



#27

1,2-Dichloroethane

Concen: 0.794 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. -0.09 min

Lab File: VW007978.D

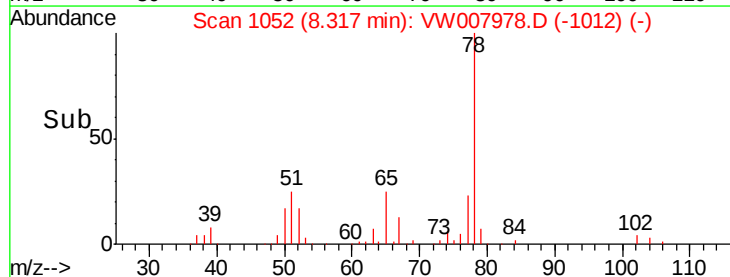
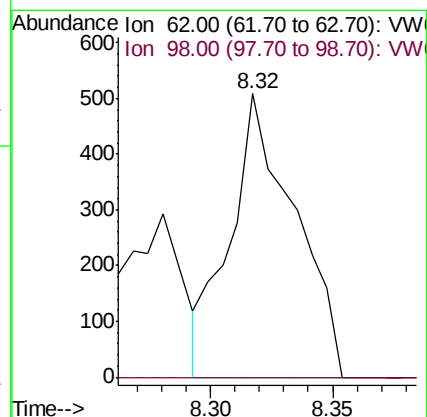
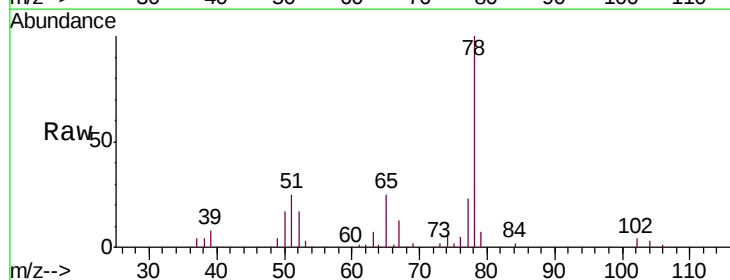
Acq: 27 Dec 2018 19:11

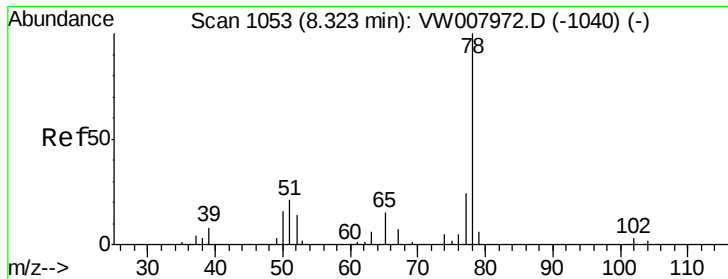
Tgt Ion: 62 Resp: 931

Ion Ratio Lower Upper

62 100

98 0.0 5.4 8.2#





#34

Benzene

Concen: 24.488 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW007978.D

Acq: 27 Dec 2018 19:11

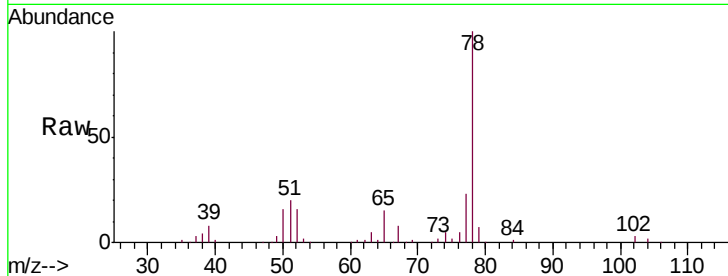
Instrument :

MSVOA\_W

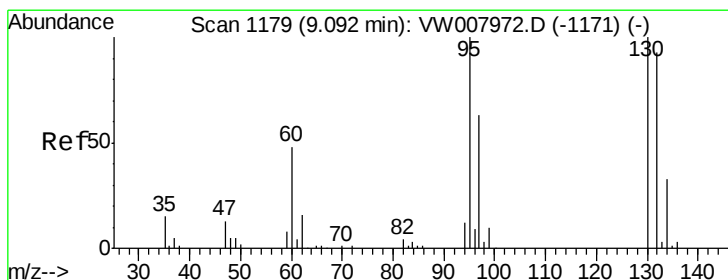
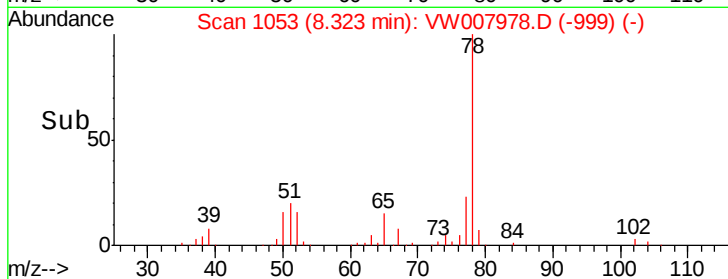
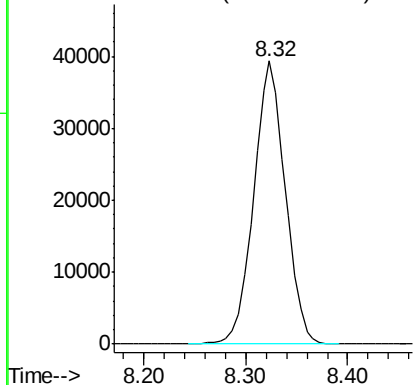
ClientSampleId :

GAEN7MSD

Tgt Ion: 78 Resp: 84566



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 23.735 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW007978.D

Acq: 27 Dec 2018 19:11

Tgt Ion: 95 Resp: 23814

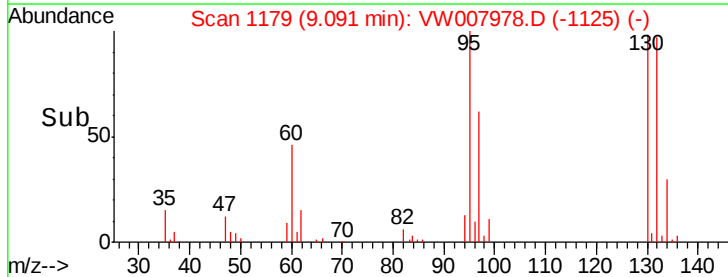
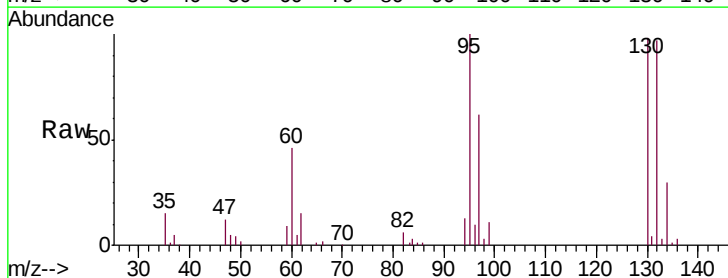
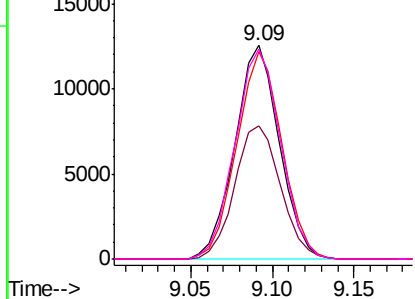
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.2  | 44.4  | 82.5  |
| 132 | 98.1  | 67.8  | 126.0 |
| 130 | 100.5 | 70.3  | 130.7 |

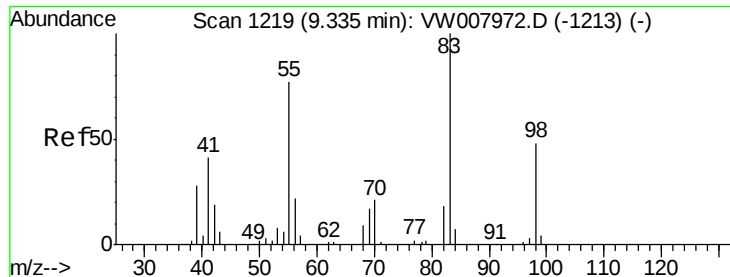
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

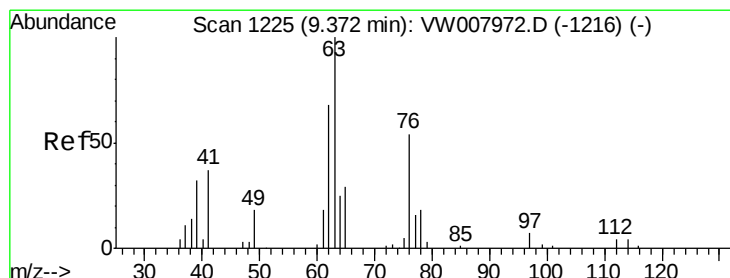
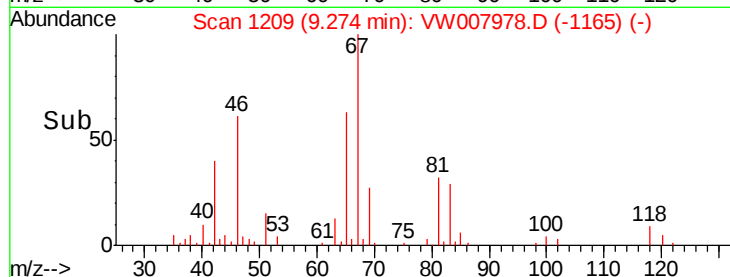
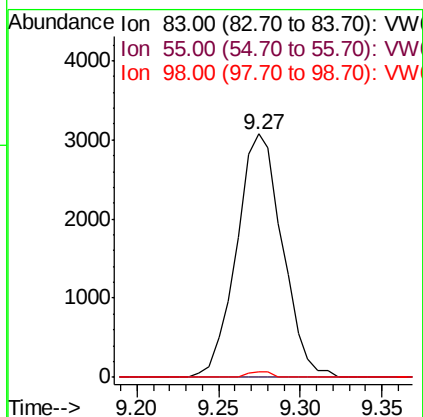
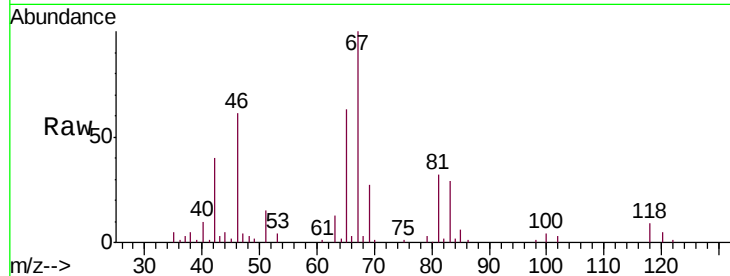




#36  
Methylcyclohexane  
Concen: 3.489 ug/L  
RT: 9.27 min Scan# 1209  
Delta R.T. -0.06 min  
Lab File: VW007978.D  
Acq: 27 Dec 2018 19:11

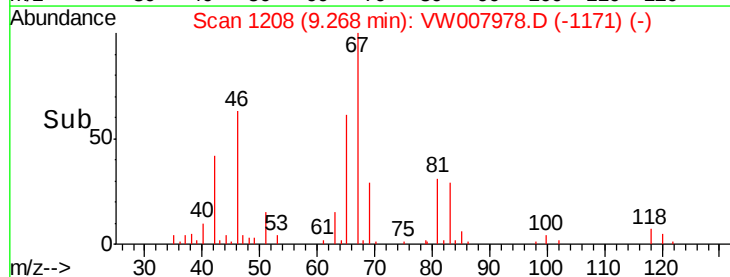
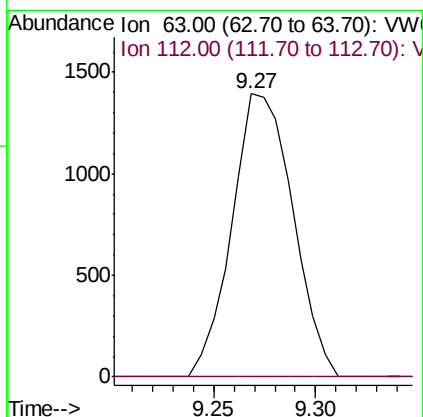
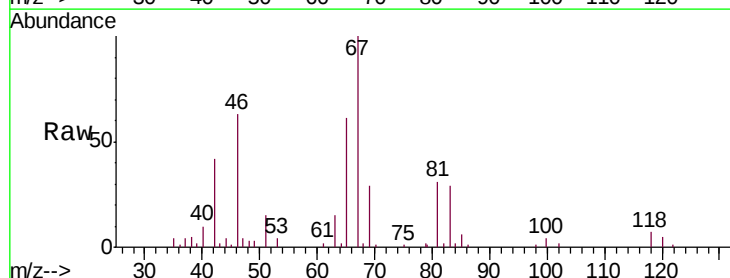
Instrument :  
MSVOA\_W  
ClientSampleId :  
GAEN7MSD

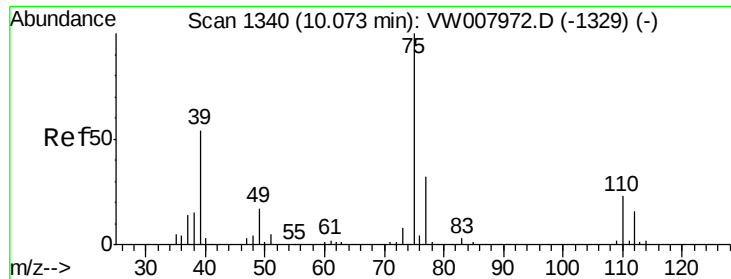
Tgt Ion: 83 Resp: 6003  
Ion Ratio Lower Upper  
83 100  
55 1.0 59.4 89.0#  
98 1.2 38.2 57.2#



#40  
1,2-Dichloropropane  
Concen: 3.565 ug/L  
RT: 9.27 min Scan# 1208  
Delta R.T. -0.10 min  
Lab File: VW007978.D  
Acq: 27 Dec 2018 19:11

Tgt Ion: 63 Resp: 2894  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.7 5.5#

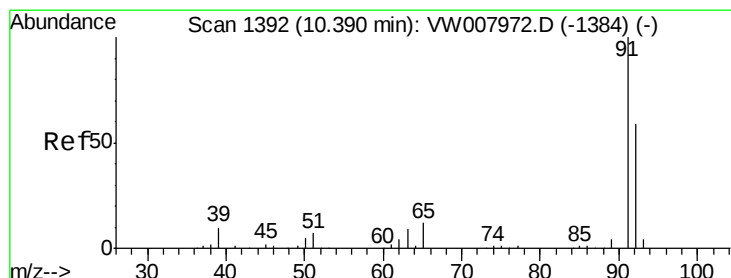
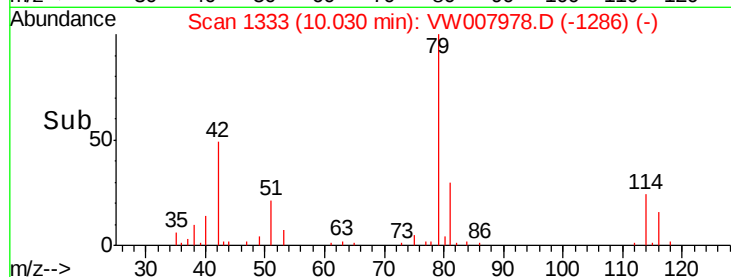
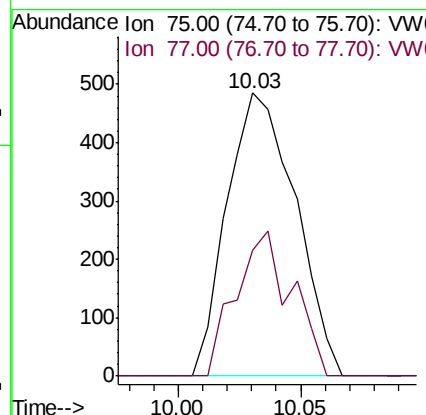
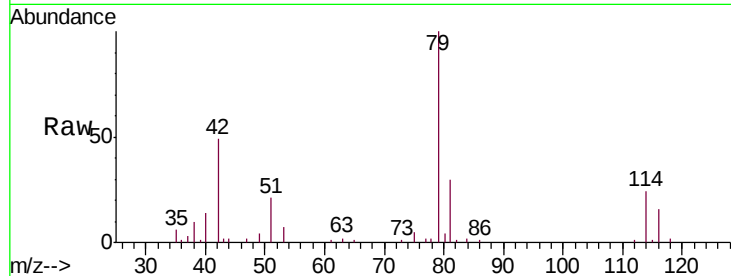




#42  
 cis-1,3-Dichloropropene  
 Concen: 0.667 ug/L  
 RT: 10.03 min Scan# 1333  
 Delta R.T. -0.04 min  
 Lab File: VW007978.D  
 Acq: 27 Dec 2018 19:11

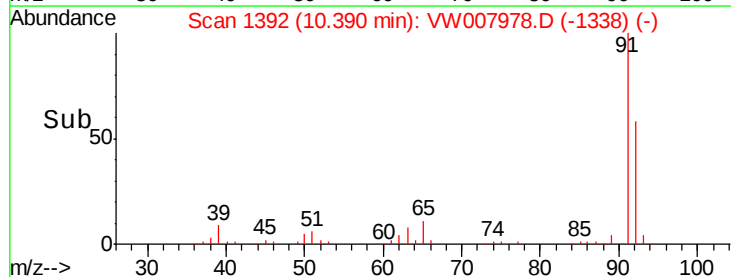
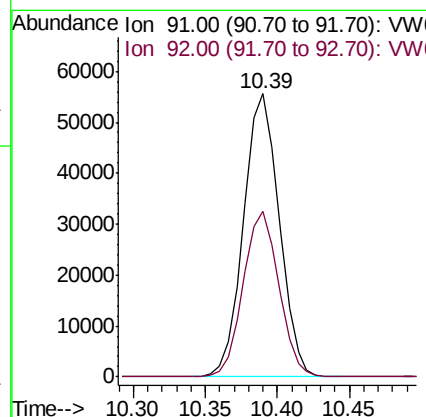
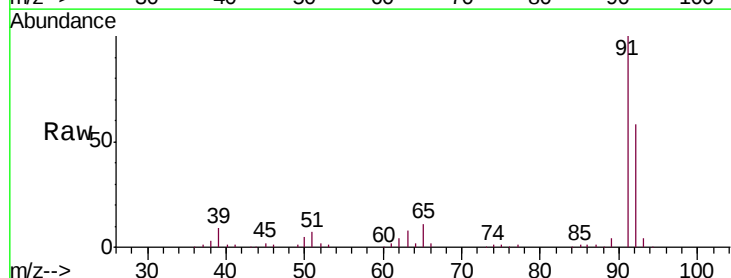
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 GAEN7MSD

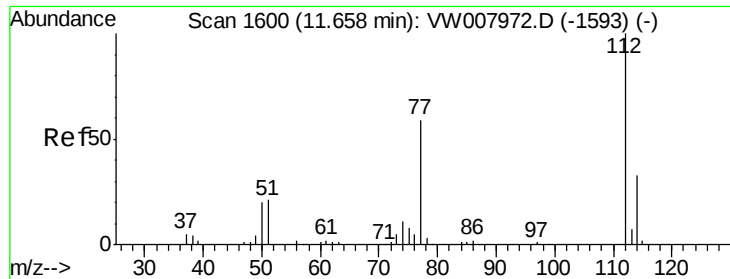
Tgt Ion: 75 Resp: 945  
 Ion Ratio Lower Upper  
 75 100  
 77 44.5 23.0 42.8#



#44  
 Toluene  
 Concen: 24.768 ug/L  
 RT: 10.39 min Scan# 1392  
 Delta R.T. -0.00 min  
 Lab File: VW007978.D  
 Acq: 27 Dec 2018 19:11

Tgt Ion: 91 Resp: 95695  
 Ion Ratio Lower Upper  
 91 100  
 92 58.4 39.6 73.6





#52

Chlorobenzene

Concen: 24.652 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW007978.D

Acq: 27 Dec 2018 19:11

Instrument :

MSVOA\_W

ClientSampleId :

GAEN7MSD

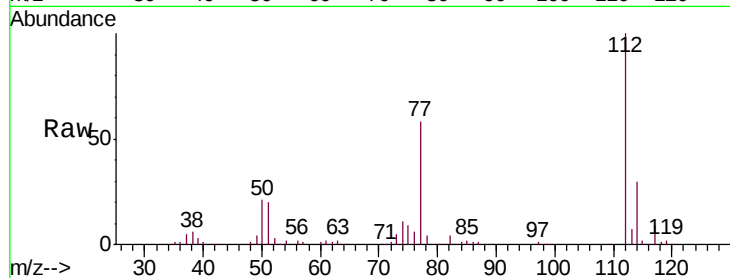
Tgt Ion:112 Resp: 62002

Ion Ratio Lower Upper

112 100

77 57.9 47.8 71.6

114 30.4 22.2 41.2



Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V

