

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011620\  
 Data File : VW014674.D  
 Acq On : 16 Jan 2020 16:12  
 Operator : SY/VA  
 Sample : L1109-09  
 Misc : 5.06G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GASG8

Quant Time: Jan 17 01:22:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122719S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jan 17 01:19:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 294386   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 249621   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 62148    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 58411    | 14.07    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 56.28%   |
| 7) Chloroethane-d5             | 2.88   | 69    | 57165    | 18.70    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 74.80%   |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 96551    | 12.72    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 50.88%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 80124    | 81.14    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 162.28%# |
| 24) Chloroform-d               | 7.65   | 84    | 177705   | 26.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 104.96%  |
| 26) 1,2-Dichloroethane-d4      | 8.45   | 65    | 164      | 0.05     | ug/L | 0.14     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 0.20%#   |
| 29) Benzene-d6                 | 8.27   | 84    | 341365   | 25.72    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.88%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 124840   | 31.28    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 125.12%# |
| 37) Toluene-d8                 | 10.32  | 98    | 274415   | 22.80    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 91.20%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 46354    | 28.12    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 112.48%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 54699    | 80.15    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 160.30%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 78293    | 26.12    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 104.48%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 46200    | 22.56    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 90.24%   |

## Target Compounds

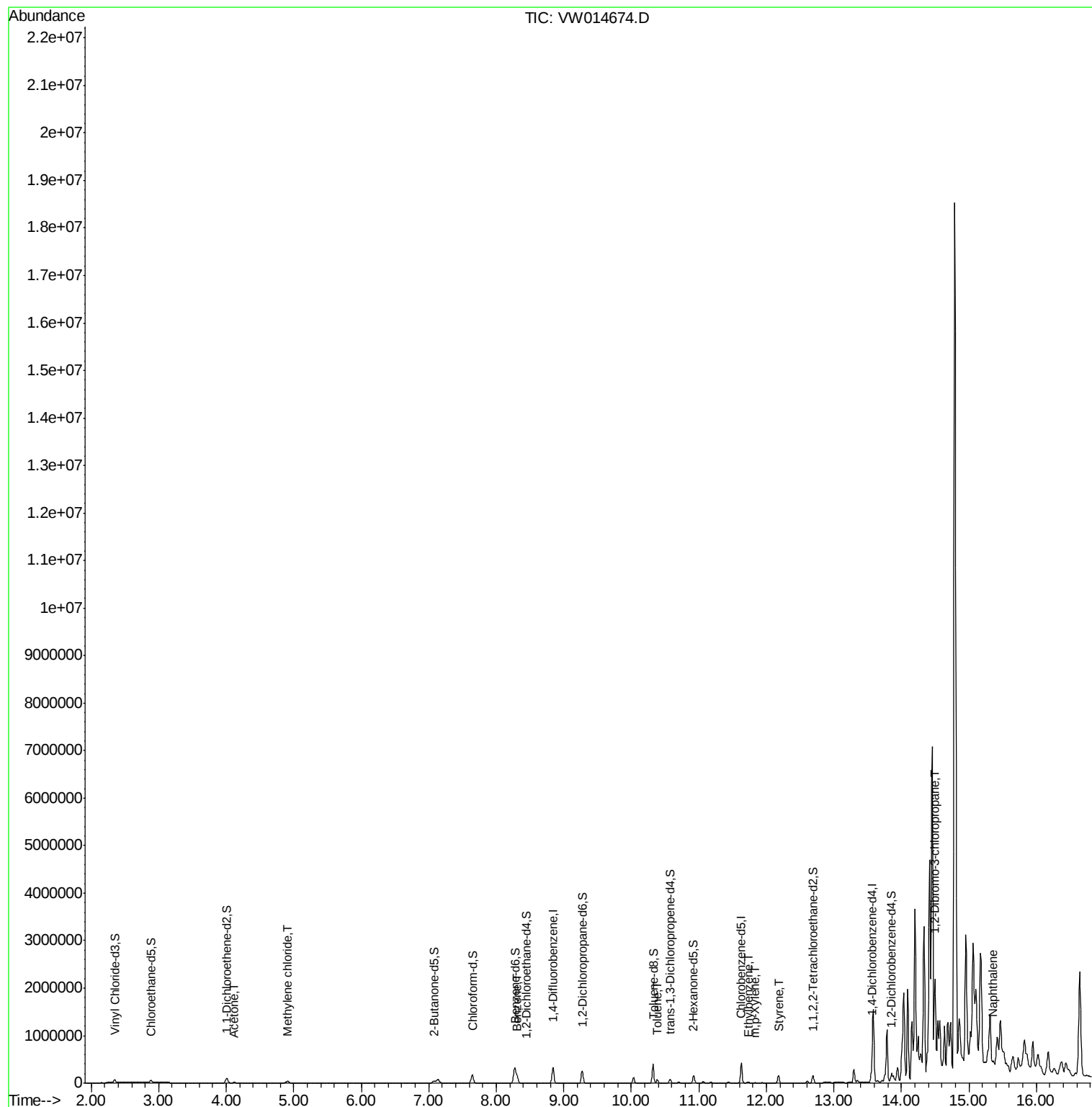
|                                |       |     |       |        | Ovalue    |
|--------------------------------|-------|-----|-------|--------|-----------|
| 13) Acetone                    | 4.12  | 43  | 27698 | 20.258 | ug/L 99   |
| 16) Methylene chloride         | 4.91  | 84  | 33843 | 7.050  | ug/L 92   |
| 34) Benzene                    | 8.32  | 78  | 16229 | 1.080  | ug/L 100  |
| 44) Toluene                    | 10.38 | 91  | 57201 | 3.644  | ug/L 95   |
| 53) Ethylbenzene               | 11.73 | 91  | 14504 | 0.840  | ug/L 96   |
| 54) m,p-Xylene                 | 11.83 | 106 | 2132  | 0.326  | ug/L 96   |
| 56) Styrene                    | 12.18 | 104 | 76918 | 7.407  | ug/L 89   |
| 66) 1,2-Dibromo-3-chloropropan | 14.50 | 75  | 6090  | 23.316 | ug/L # 2  |
| 69) Naphthalene                | 15.36 | 128 | 17725 | 4.699  | ug/L # 85 |

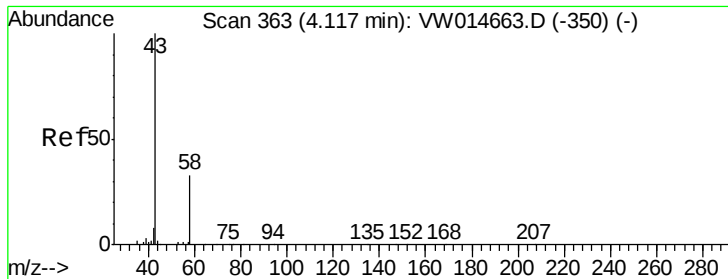
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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GASG8

Quant Time: Jan 17 01:22:22 2020  
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Quant Title : VOC Analysis  
QLast Update : Fri Jan 17 01:19:13 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 20.258 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014674.D

Acq: 16 Jan 2020 16:12

Instrument :

MSVOA\_W

ClientSampled :

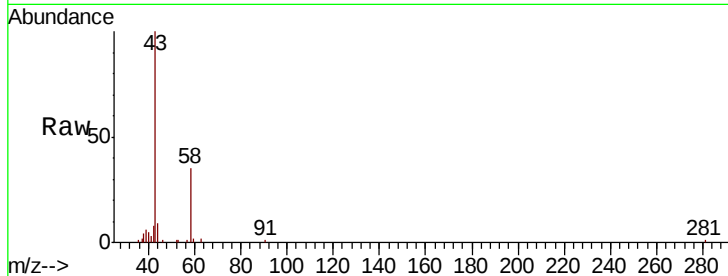
GASG8

Tot Ion: 43 Resp: 27698

Ion Ratio Lower Upper

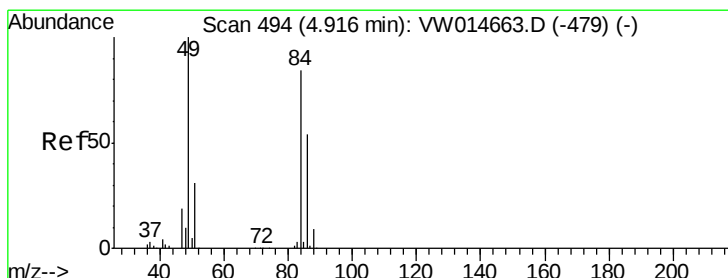
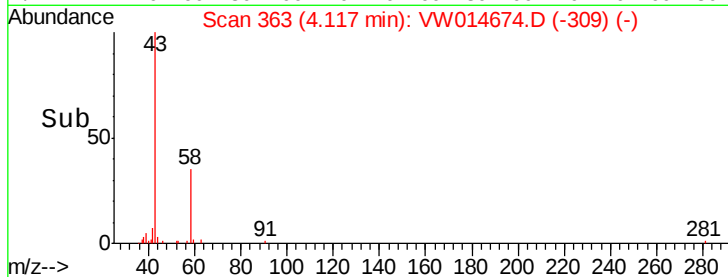
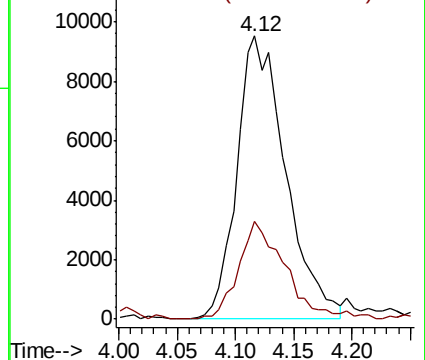
43 100

58 31.4 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#16

Methylene chloride

Concen: 7.050 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW014674.D

Acq: 16 Jan 2020 16:12

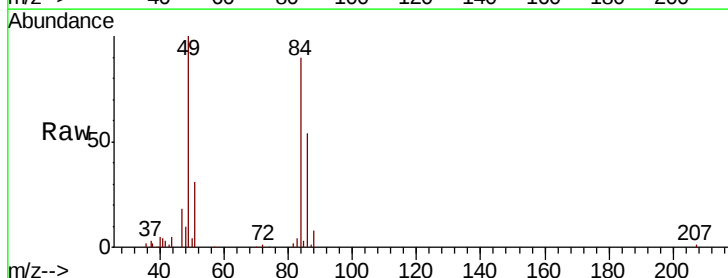
Tgt Ion: 84 Resp: 33843

Ion Ratio Lower Upper

84 100

49 111.2 85.8 159.4

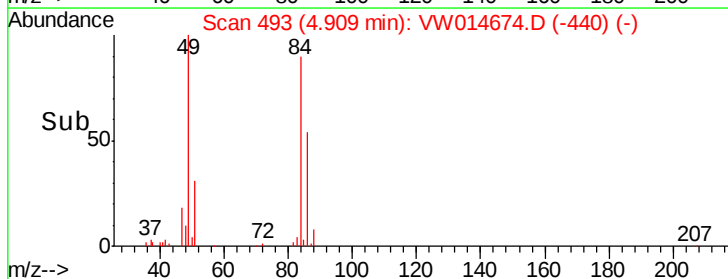
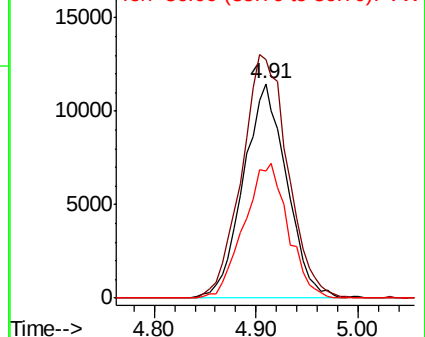
86 59.6 44.5 82.7

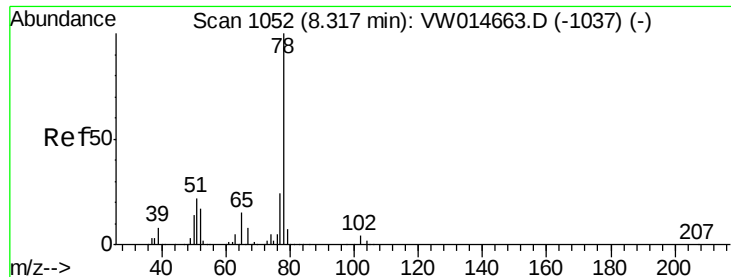


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW





#34

Benzene

Concen: 1.080 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW014674.D

Acq: 16 Jan 2020 16:12

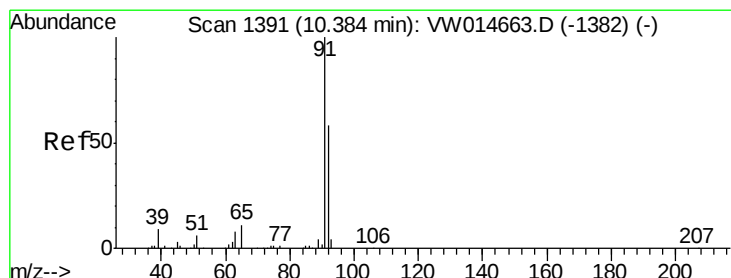
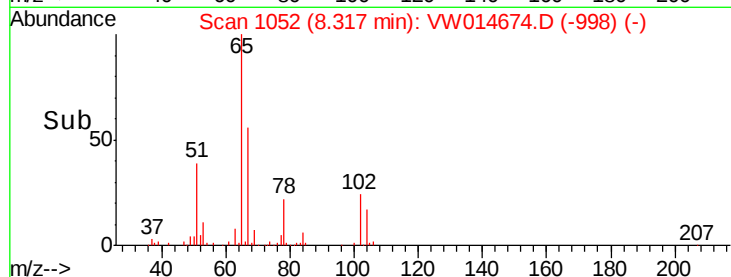
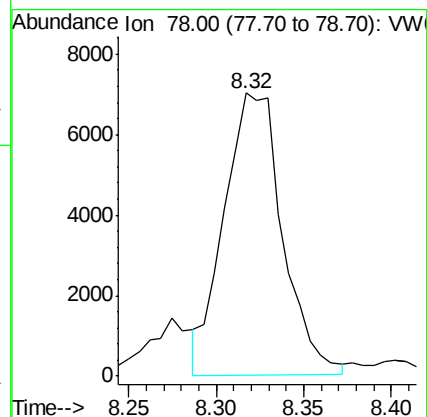
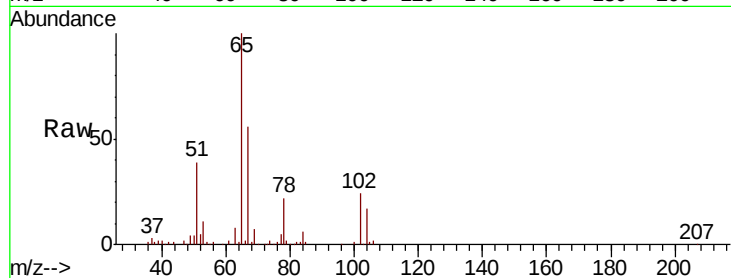
Instrument :

MSVOA\_W

ClientSampleId :

GASG8

Tgt Ion: 78 Resp: 16229



#44

Toluene

Concen: 3.644 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014674.D

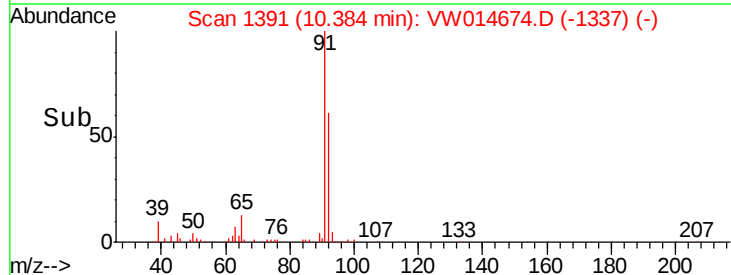
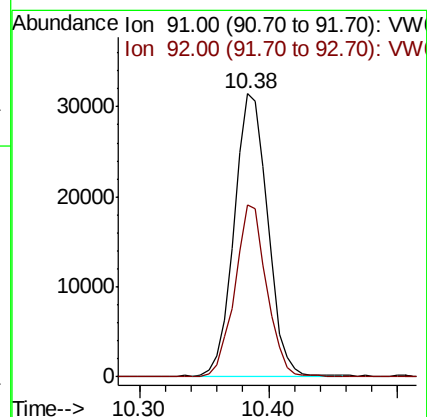
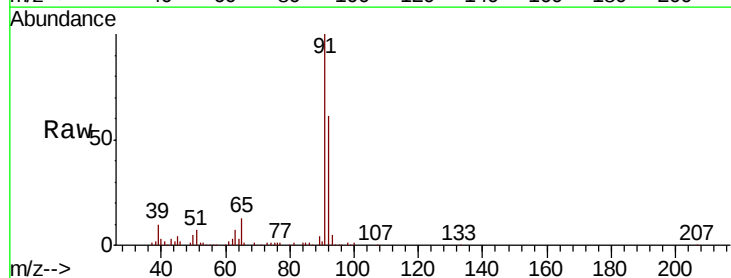
Acq: 16 Jan 2020 16:12

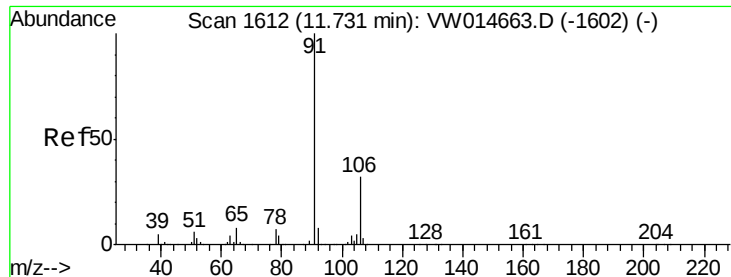
Tgt Ion: 91 Resp: 57201

Ion Ratio Lower Upper

91 100

92 60.9 40.2 74.6





#53

Ethylbenzene

Concen: 0.840 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW014674.D

Acq: 16 Jan 2020 16:12

Instrument :

MSVOA\_W

ClientSampleId :

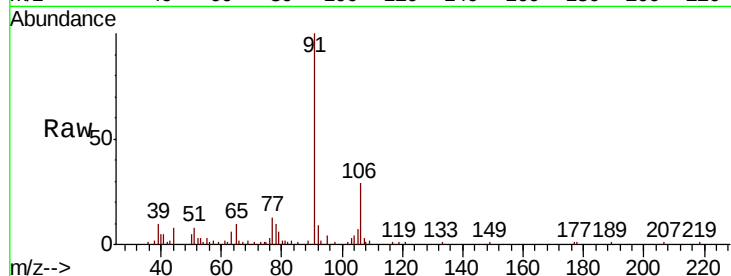
GASG8

Tot Ion: 91 Resp: 14504

Ion Ratio Lower Upper

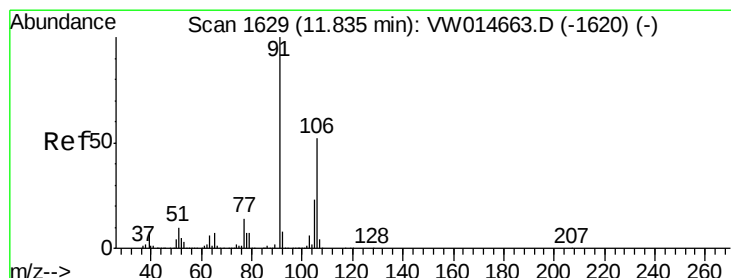
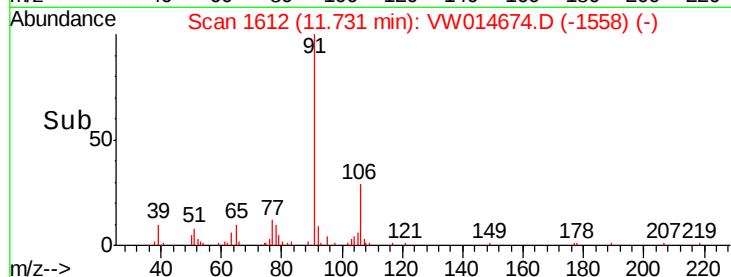
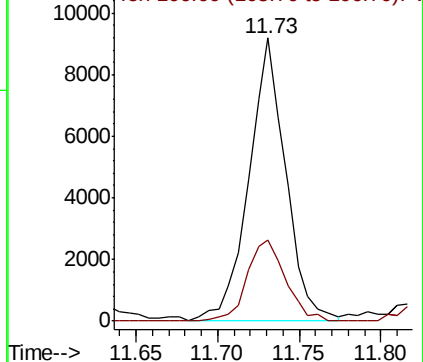
91 100

106 28.8 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 0.326 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014674.D

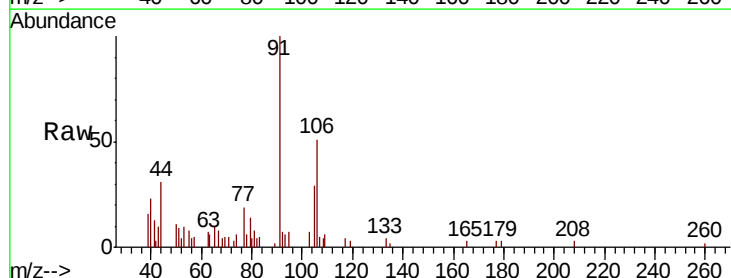
Acq: 16 Jan 2020 16:12

Tgt Ion: 106 Resp: 2132

Ion Ratio Lower Upper

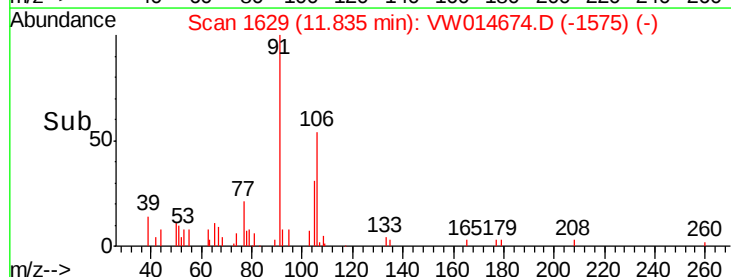
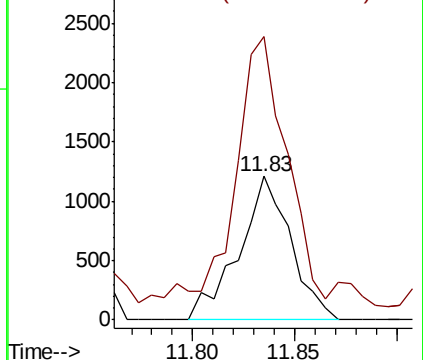
106 100

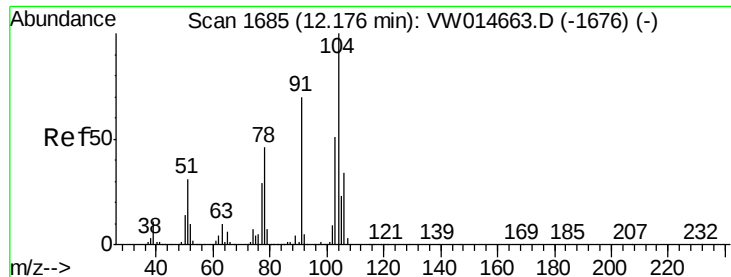
91 196.9 142.2 264.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 7.407 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW014674.D

Acq: 16 Jan 2020 16:12

Instrument :

MSVOA\_W

ClientSampled :

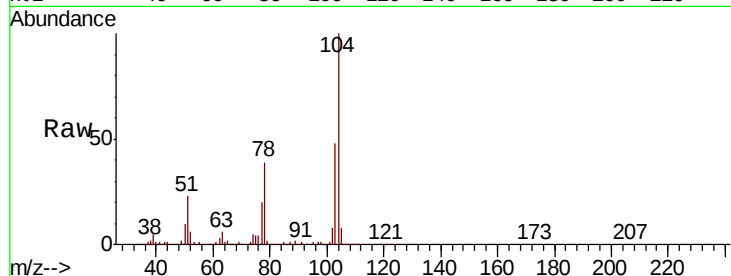
GASG8

Tot Ion:104 Resp: 76918

Ion Ratio Lower Upper

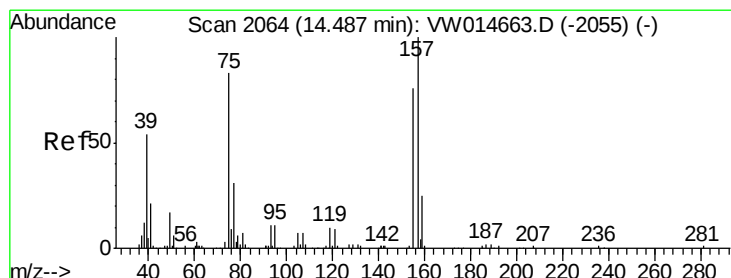
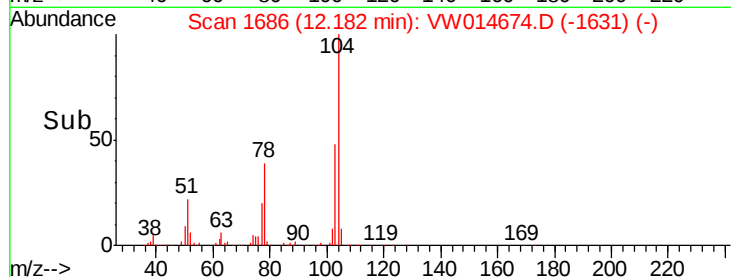
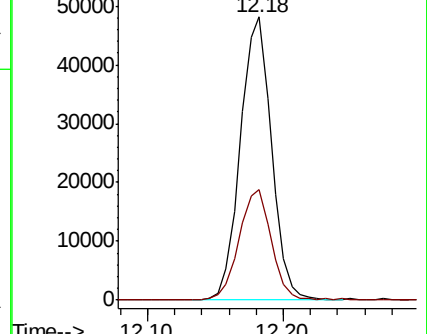
104 100

78 39.2 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#66

1,2-Dibromo-3-chloropropane

Concen: 23.316 ug/L

RT: 14.50 min Scan# 2066

Delta R.T. 0.01 min

Lab File: VW014674.D

Acq: 16 Jan 2020 16:12

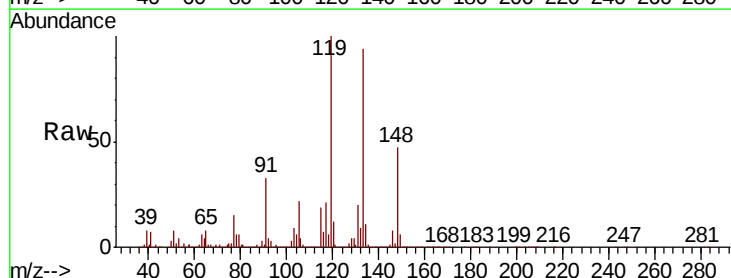
Tgt Ion: 75 Resp: 6090

Ion Ratio Lower Upper

75 100

157 1.6 87.2 130.8#

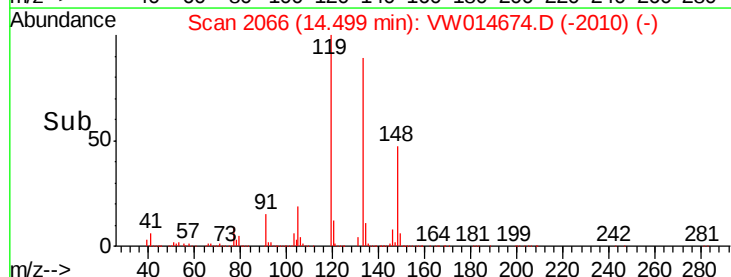
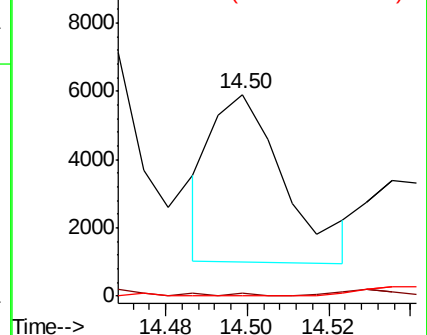
155 0.0 67.8 101.8#

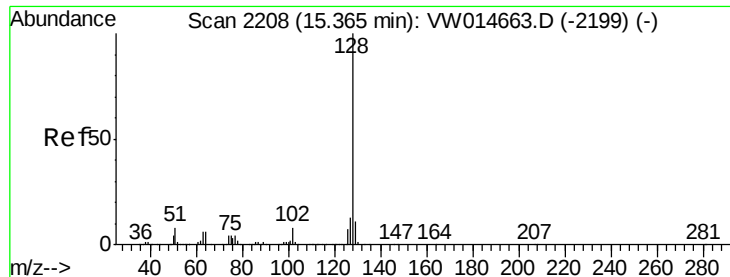


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





#69

Naphthalene

Concen: 4.699 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014674.D

Acq: 16 Jan 2020 16:12

Instrument :

MSVOA\_W

ClientSampleId :

GASG8

Tot Ion:128 Resp: 17725

Ion Ratio Lower Upper

128 100

129 6.2 8.8 13.2#

127 6.6 10.6 16.0#

