

Data File : VW010975.D  
Acq On : 25 Jun 2019 19:00  
Operator : SY/VA  
Sample : K3460-22MSD  
Misc : 5.00G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
YANZ2MSD

Quant Time: Jun 26 04:40:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM062419S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jun 26 04:33:18 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 128838   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 126673   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 60024    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.34   | 65    | 30697    | 18.38    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 73.52%   |
| 7) Chloroethane-d5             | 2.88   | 69    | 25007    | 19.42    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 77.68%   |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 81209    | 20.58    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 82.32%   |
| 20) 2-Butanone-d5              | 7.07   | 46    | 53649    | 68.41    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 136.82%# |
| 24) Chloroform-d               | 7.65   | 84    | 86310    | 24.84    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 99.36%   |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 65277    | 30.31    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 121.24%  |
| 29) Benzene-d6                 | 8.27   | 84    | 170872   | 22.47    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 89.88%   |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 63175    | 25.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.56%  |
| 37) Toluene-d8                 | 10.32  | 98    | 149907   | 21.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.40%   |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 25245    | 22.70    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 90.80%   |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 35206    | 62.34    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 124.68%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 61954    | 29.91    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 119.64%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 59973    | 26.47    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 105.88%  |

#### Target Compounds

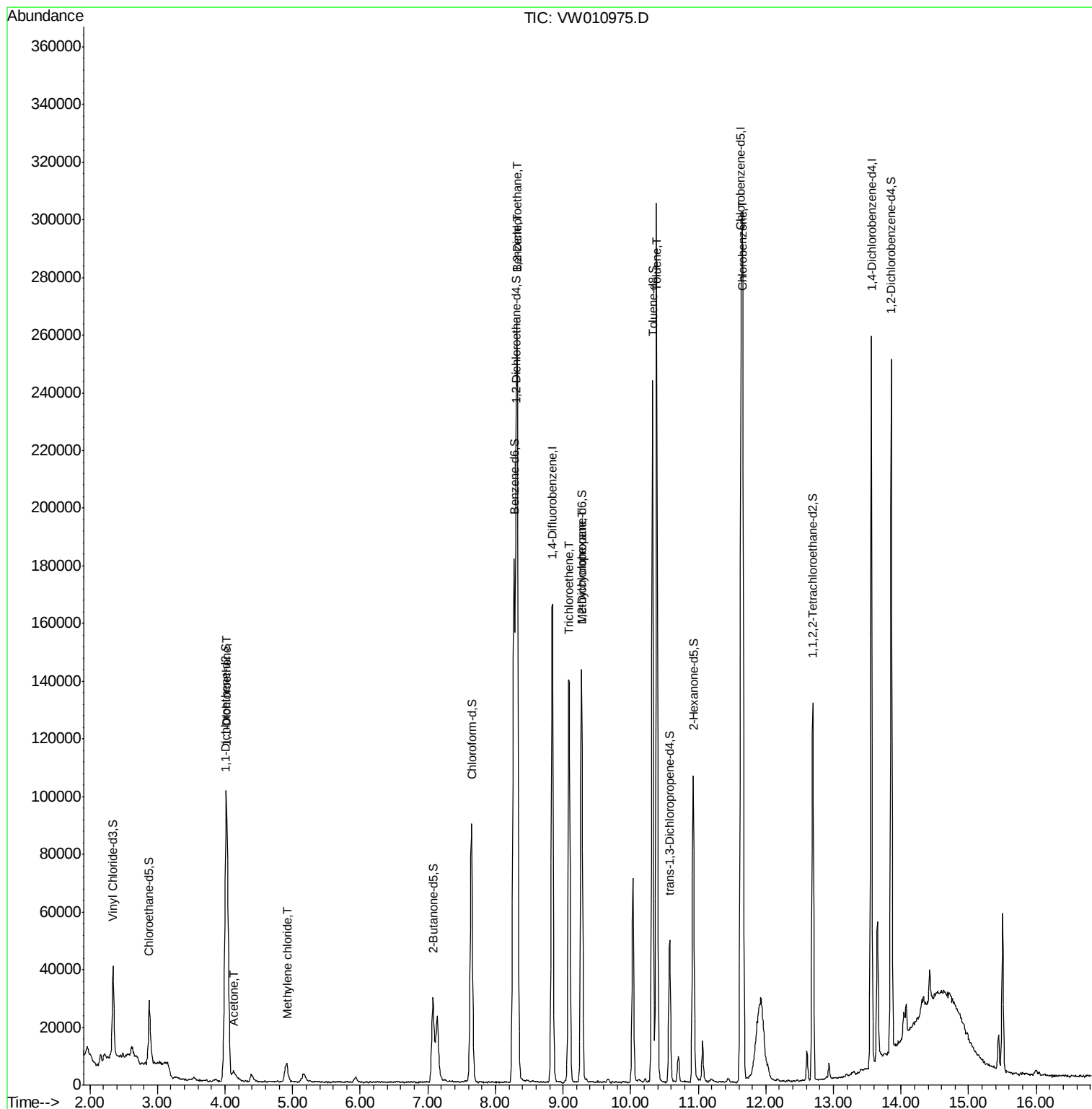
|                        |       |     |        |              | Qvalue |
|------------------------|-------|-----|--------|--------------|--------|
| 12) 1,1-Dichloroethene | 4.03  | 96  | 36653  | 20.324 ug/L  | 95     |
| 13) Acetone            | 4.12  | 43  | 6564   | 8.740 ug/L   | 81     |
| 16) Methylene chloride | 4.91  | 84  | 4231   | 2.217 ug/L   | 97     |
| 27) 1,2-Dichloroethane | 8.31  | 62  | 2211   | 0.830 ug/L   | 100    |
| 34) Benzene            | 8.32  | 78  | 204018 | 24.509 ug/L  | 100    |
| 35) Trichloroethene    | 9.09  | 95  | 48675  | 23.058 ug/L  | 99     |
| 36) Methylcyclohexane  | 9.27  | 83  | 14334  | 3.699 ug/L # | 14     |
| 44) Toluene            | 10.38 | 91  | 209850 | 24.109 ug/L  | 99     |
| 52) Chlorobenzene      | 11.66 | 112 | 133801 | 25.545 ug/L  | 99     |

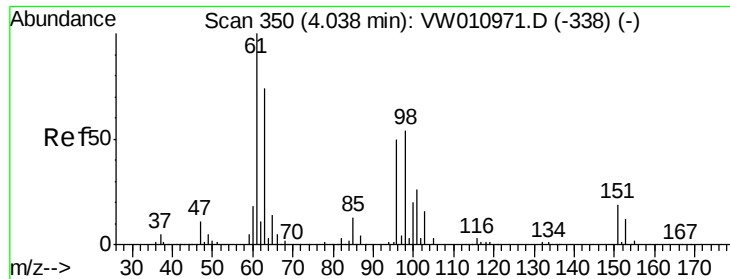
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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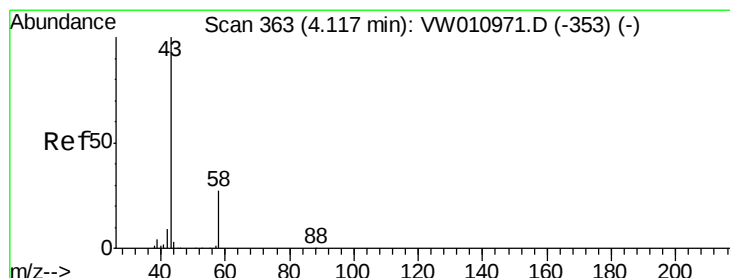
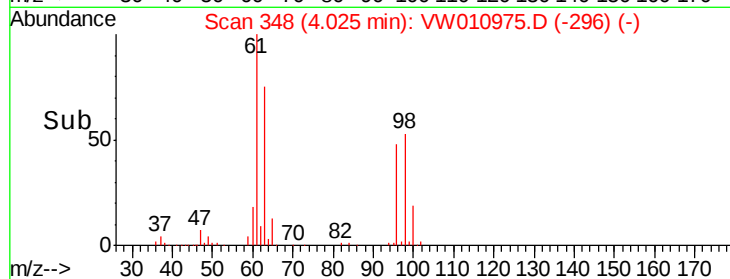
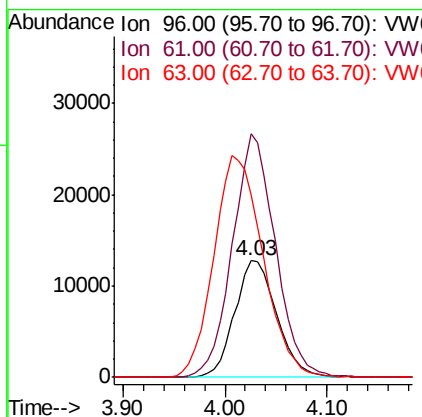
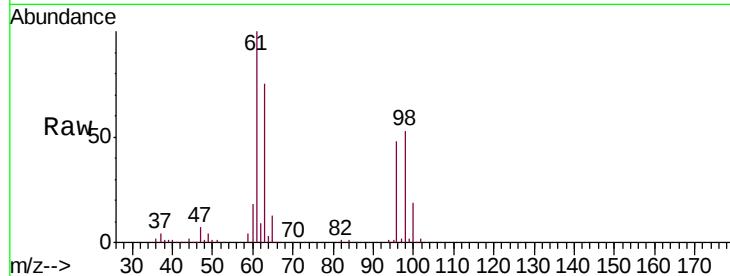




#12  
 1,1-Dichloroethene  
 Concen: 20.324 ug/L  
 RT: 4.03 min Scan# 348  
 Delta R.T. -0.01 min  
 Lab File: VW010975.D  
 Acq: 25 Jun 2019 19:00

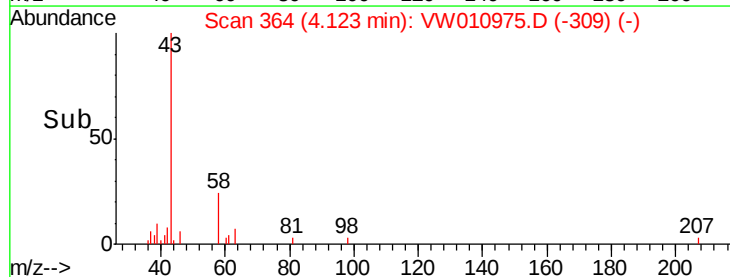
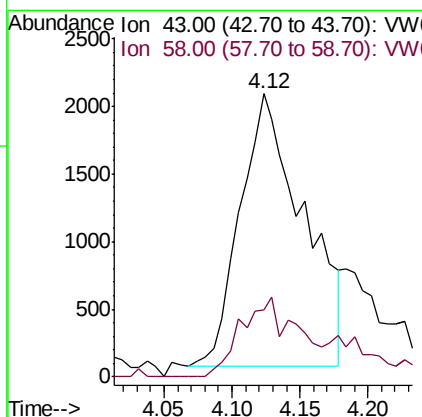
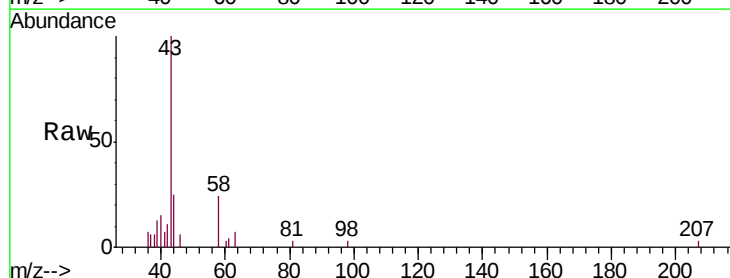
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 YANZ2MSD

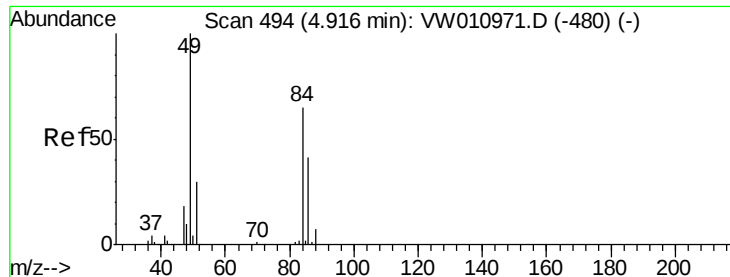
Tgt Ion: 96 Resp: 36653  
 Ion Ratio Lower Upper  
 96 100  
 61 209.3 144.5 268.3  
 63 156.6 102.3 189.9



#13  
 Acetone  
 Concen: 8.740 ug/L  
 RT: 4.12 min Scan# 364  
 Delta R.T. 0.01 min  
 Lab File: VW010975.D  
 Acq: 25 Jun 2019 19:00

Tgt Ion: 43 Resp: 6564  
 Ion Ratio Lower Upper  
 43 100  
 58 16.8 0.0 53.2

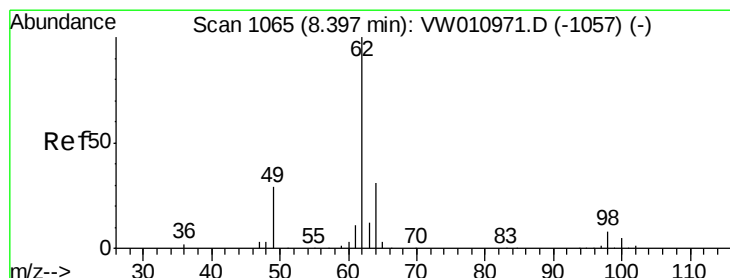
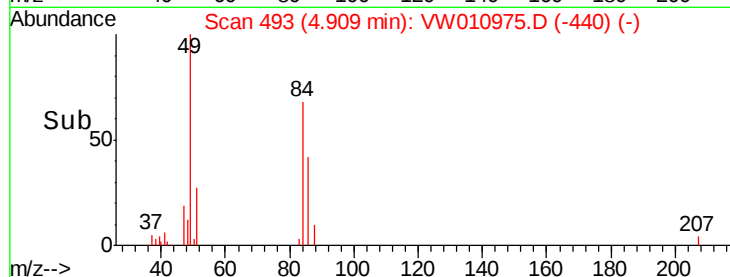
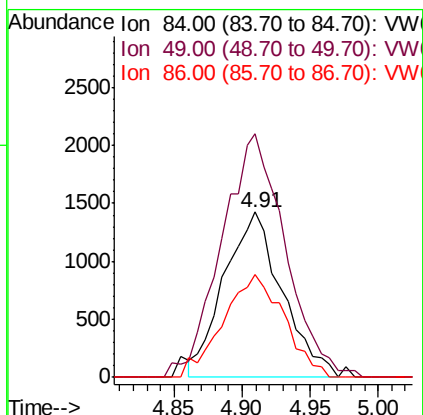
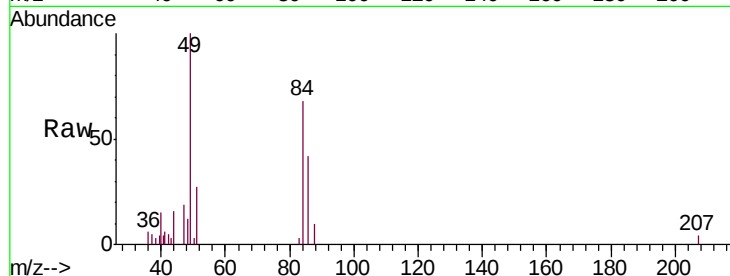




#16  
Methylene chloride  
Concen: 2.217 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW010975.D  
Acq: 25 Jun 2019 19:00

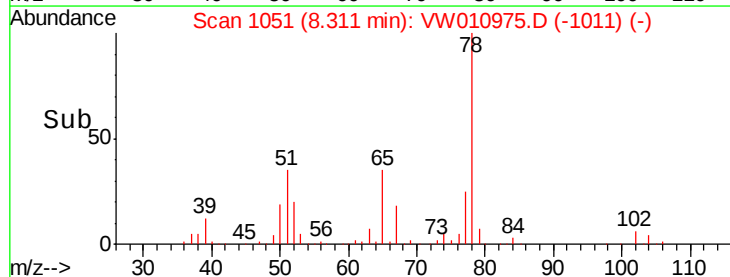
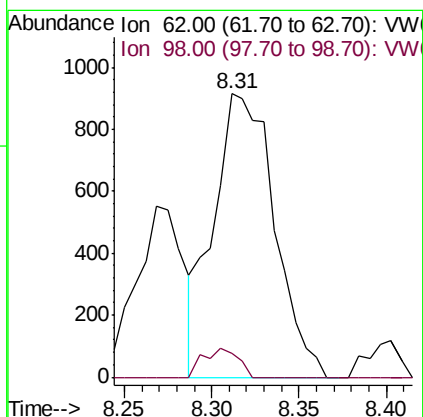
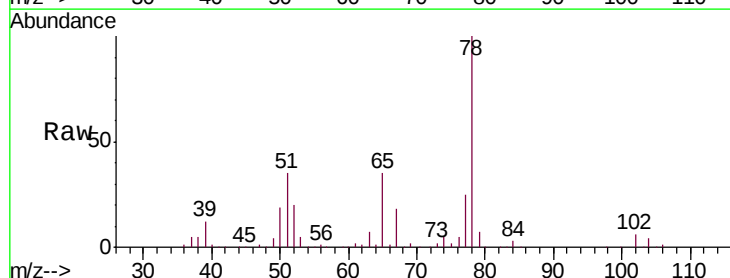
Instrument :  
MSVOA\_W  
ClientSampled :  
YANZ2MSD

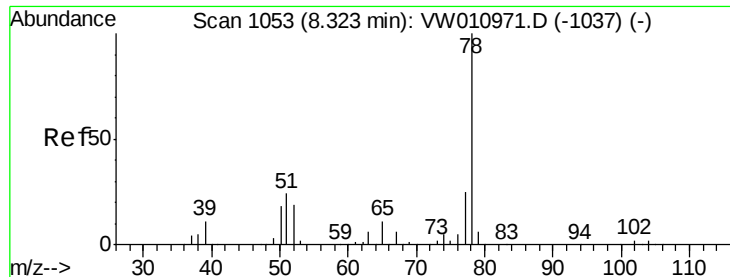
Tgt Ion: 84 Resp: 4231  
Ion Ratio Lower Upper  
84 100  
49 147.5 107.0 198.8  
86 62.6 44.4 82.5



#27  
1,2-Dichloroethane  
Concen: 0.830 ug/L  
RT: 8.31 min Scan# 1051  
Delta R.T. -0.09 min  
Lab File: VW010975.D  
Acq: 25 Jun 2019 19:00

Tgt Ion: 62 Resp: 2211  
Ion Ratio Lower Upper  
62 100  
98 8.4 6.7 10.1





#34

Benzene

Concen: 24.509 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW010975.D

Acq: 25 Jun 2019 19:00

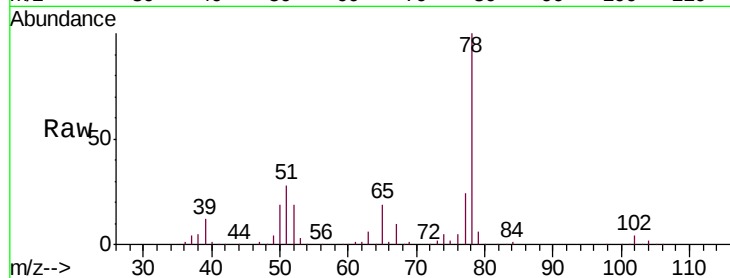
Instrument :

MSVOA\_W

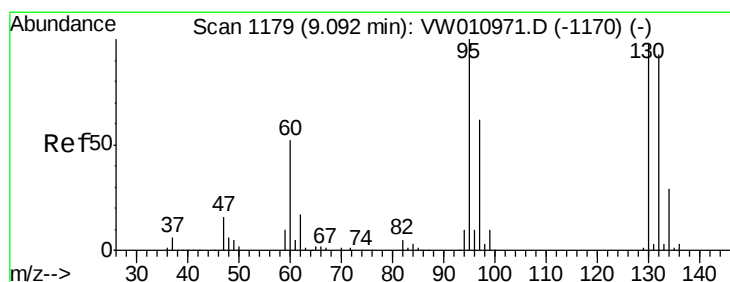
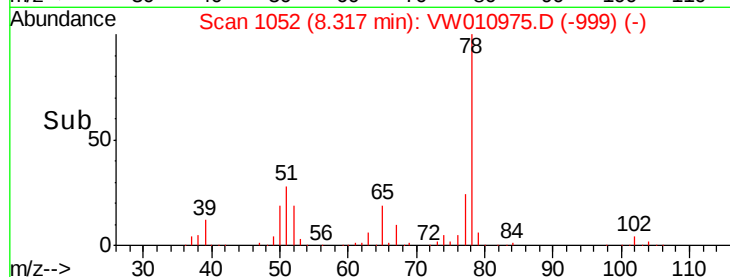
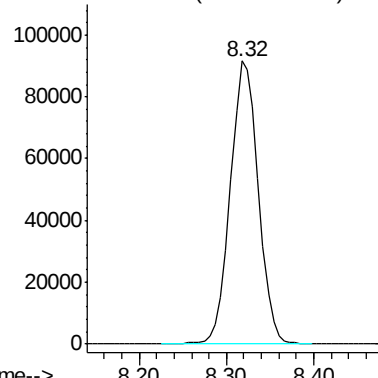
ClientSampleId :

YANZ2MSD

Tgt Ion: 78 Resp: 204018



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 23.058 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW010975.D

Acq: 25 Jun 2019 19:00

Tgt Ion: 95 Resp: 48675

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.4  | 44.9  | 83.3  |
| 132 | 91.5  | 64.0  | 119.0 |
| 130 | 94.4  | 67.4  | 125.2 |

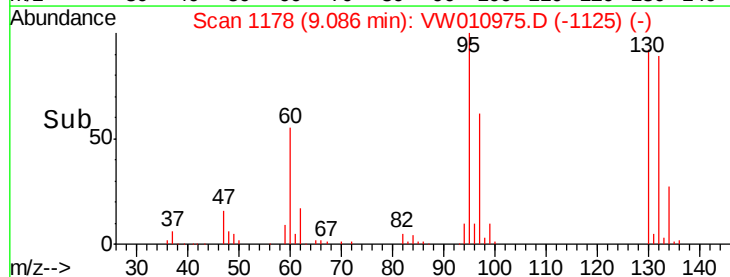
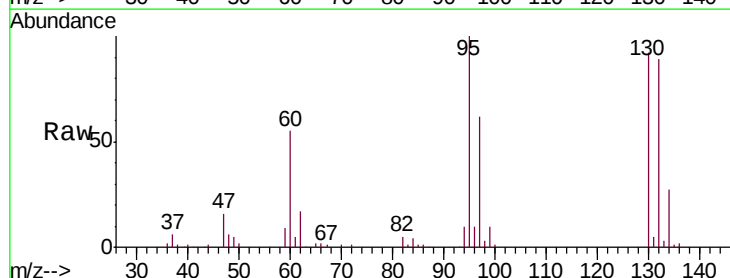
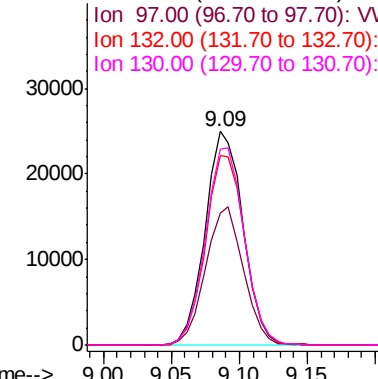
Ion 95.00 (94.70 to 95.70): VW

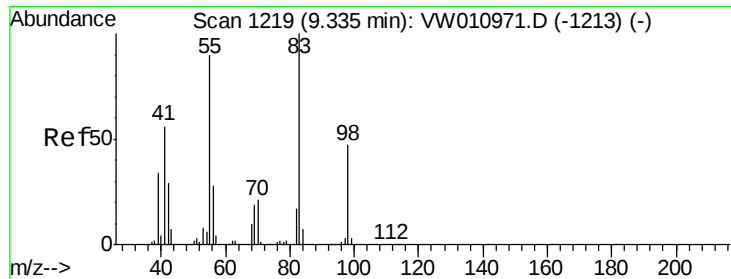
Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Abundance Ion 95.00 (94.70 to 95.70): VW

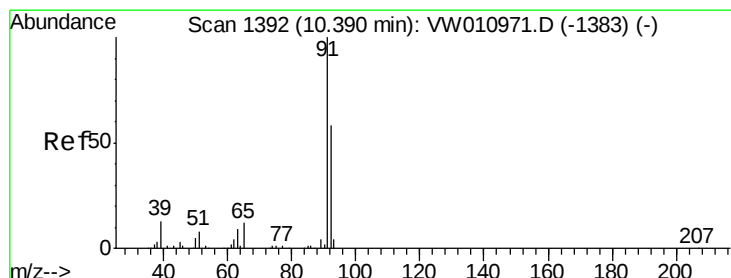
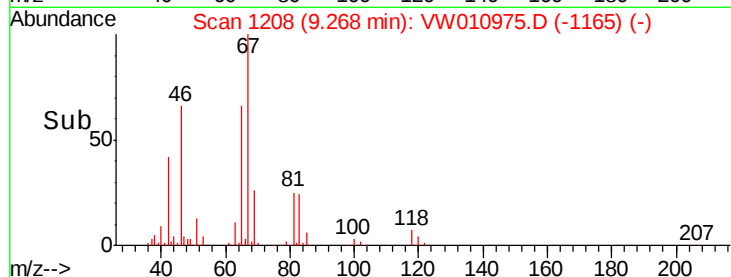
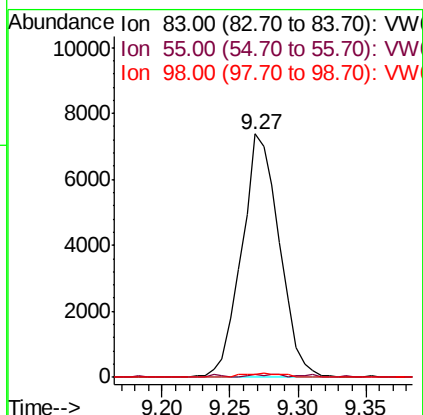
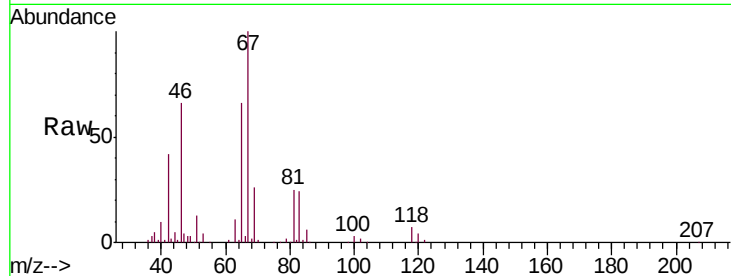




#36  
Methylcyclohexane  
Concen: 3.699 ug/L  
RT: 9.27 min Scan# 1208  
Delta R.T. -0.07 min  
Lab File: VW010975.D  
Acq: 25 Jun 2019 19:00

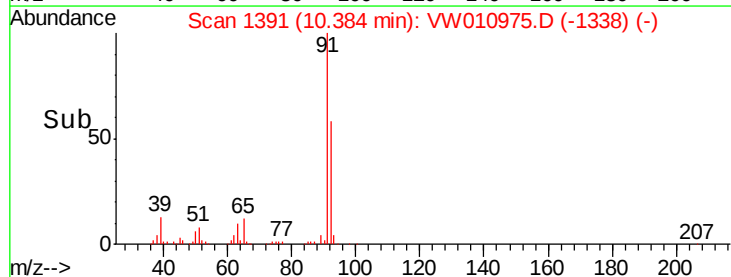
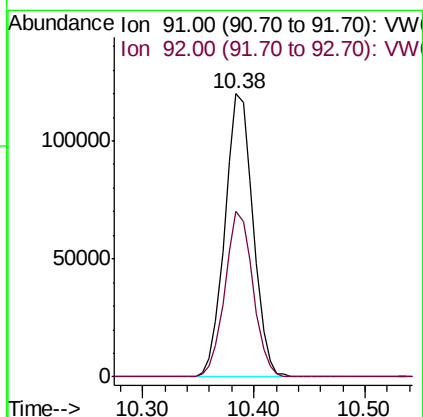
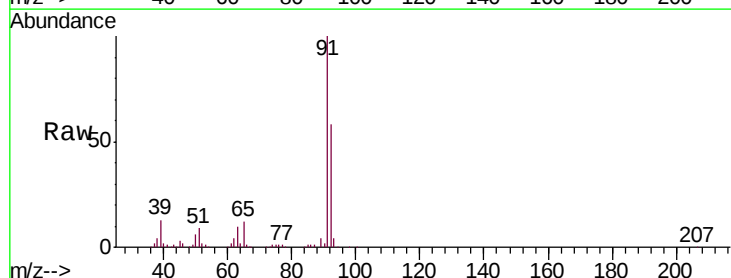
Instrument :  
MSVOA\_W  
ClientSampleId :  
YANZ2MSD

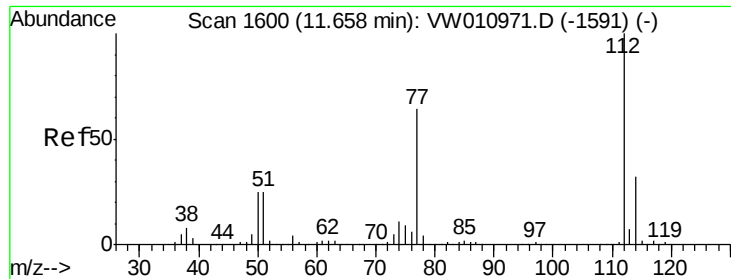
Tgt Ion: 83 Resp: 14334  
Ion Ratio Lower Upper  
83 100  
55 0.5 72.2 108.2#  
98 1.4 37.8 56.8#



#44  
Toluene  
Concen: 24.109 ug/L  
RT: 10.38 min Scan# 1391  
Delta R.T. -0.01 min  
Lab File: VW010975.D  
Acq: 25 Jun 2019 19:00

Tgt Ion: 91 Resp: 209850  
Ion Ratio Lower Upper  
91 100  
92 58.3 41.2 76.4





#52

Chlorobenzene

Concen: 25.545 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW010975.D

Acq: 25 Jun 2019 19:00

Instrument :

MSVOA\_W

ClientSampleId :

YANZ2MSD

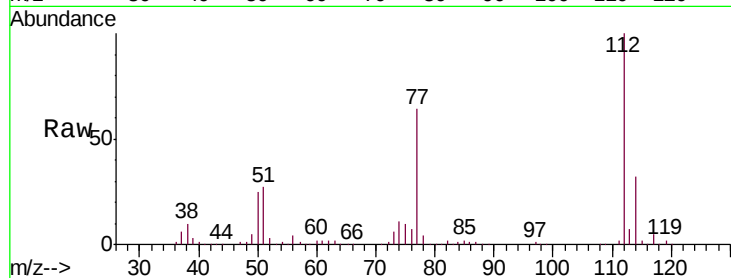
Tgt Ion:112 Resp: 133801

Ion Ratio Lower Upper

112 100

77 64.5 51.1 76.7

114 32.2 22.7 42.1



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

