

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041020\  
 Data File : VW015183.D  
 Acq On : 10 Apr 2020 17:00  
 Operator : SY/VA  
 Sample : L2176-08  
 Misc : 5.39G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Apr 11 06:29:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 10 13:10:27 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 1256538  | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 1043295  | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 419690   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 327382   | 27.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 110.20% |
| 7) Chloroethane-d5             | 2.89   | 69    | 215725   | 24.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 99.04%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 537269   | 17.07    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 68.28%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 142707   | 35.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 70.22%  |
| 24) Chloroform-d               | 7.65   | 84    | 638887   | 21.56    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 86.24%  |
| 26) 1,2-Dichloroethane-d4      | 8.15   | 65    | 376      | 0.03     | ug/L | -0.15   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 0.12%#  |
| 29) Benzene-d6                 | 8.27   | 84    | 1428983  | 24.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.00%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 418672   | 23.46    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 93.84%  |
| 37) Toluene-d8                 | 10.32  | 98    | 1333803  | 24.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 98.60%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 169719   | 20.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 83.36%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 123364   | 38.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 77.38%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 257428   | 19.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 78.92%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 339663   | 22.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 90.32%  |

## Target Compounds

|                                |       |     |         |         | Ovalue    |
|--------------------------------|-------|-----|---------|---------|-----------|
| 13) Acetone                    | 4.13  | 43  | 30029   | 11.655  | ug/L 73   |
| 27) 1,2-Dichloroethane         | 8.27  | 62  | 8125    | 0.460   | ug/L 96   |
| 36) Methylcyclohexane          | 9.33  | 83  | 99247   | 3.189   | ug/L # 83 |
| 44) Toluene                    | 10.39 | 91  | 26901   | 0.393   | ug/L 92   |
| 46) 1,1,2-Trichloroethane      | 10.76 | 97  | 135157  | 11.986  | ug/L # 19 |
| 53) Ethylbenzene               | 11.73 | 91  | 97209   | 1.264   | ug/L 100  |
| 54) m,p-Xylene                 | 11.83 | 106 | 3433598 | 116.440 | ug/L 97   |
| 55) o-xylene                   | 12.16 | 106 | 949037  | 33.673  | ug/L 100  |
| 57) Isopropylbenzene           | 12.46 | 105 | 280309  | 3.684   | ug/L # 96 |
| 58) 1,1,2,2-Tetrachloroethane  | 12.69 | 83  | 14905   | 1.134   | ug/L # 60 |
| 64) 1,4-Dichlorobenzene        | 13.58 | 146 | 12699   | 0.471   | ug/L # 70 |
| 65) 1,2-Dichlorobenzene        | 13.87 | 146 | 11244   | 0.456   | ug/L # 62 |
| 66) 1,2-Dibromo-3-chloropropan | 14.46 | 75  | 8288    | 4.062   | ug/L # 4  |
| 68) 1,2,4-trichlorobenzene     | 15.13 | 180 | 11955   | 0.784   | ug/L # 51 |
| 69) Naphthalene                | 15.36 | 128 | 171522  | 5.616   | ug/L 99   |

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Sample : L2176-08  
Misc : 5.39G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

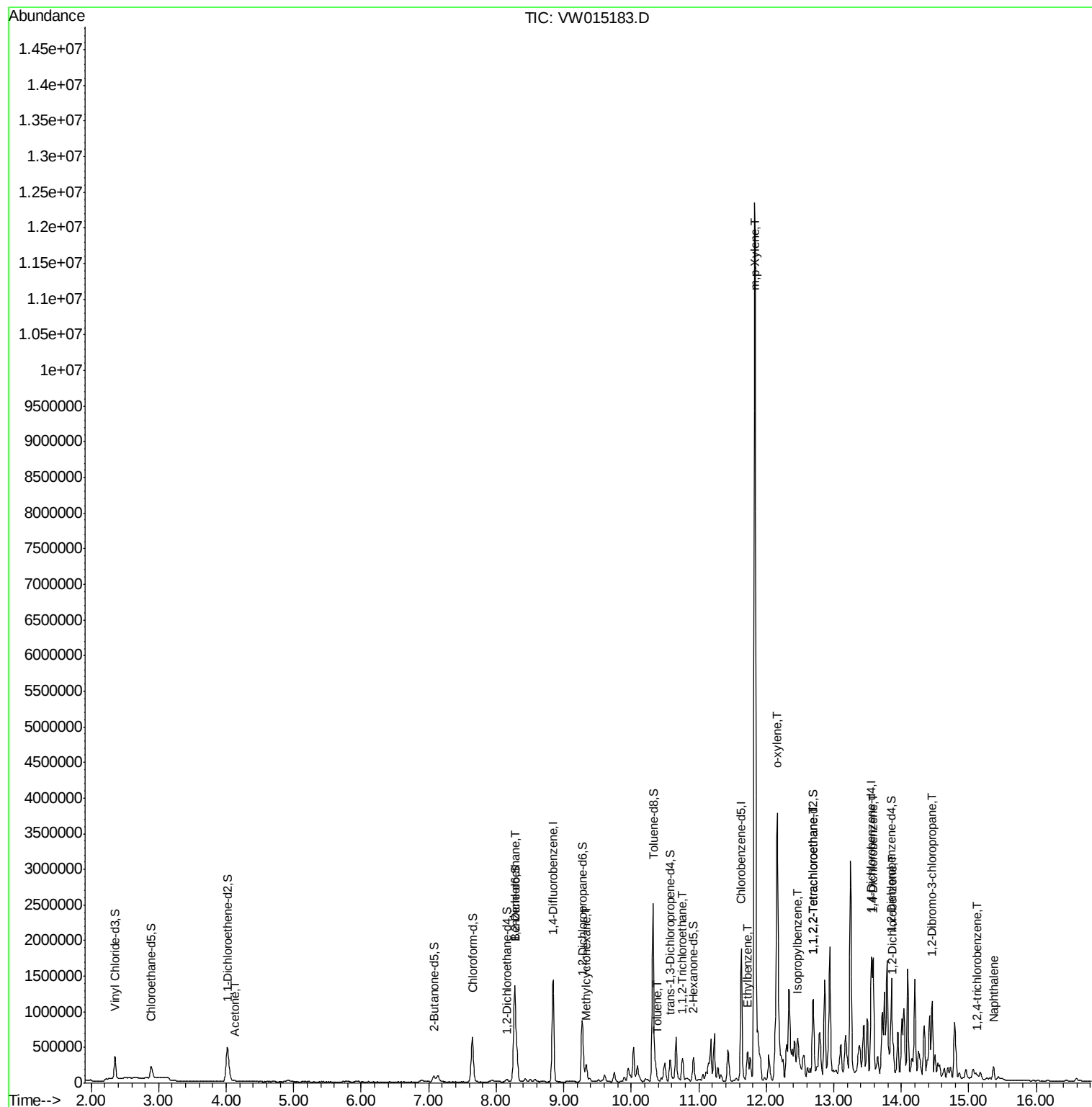
Quant Time: Apr 11 06:29:28 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM041020S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 10 13:10:27 2020  
Response via : Initial Calibration

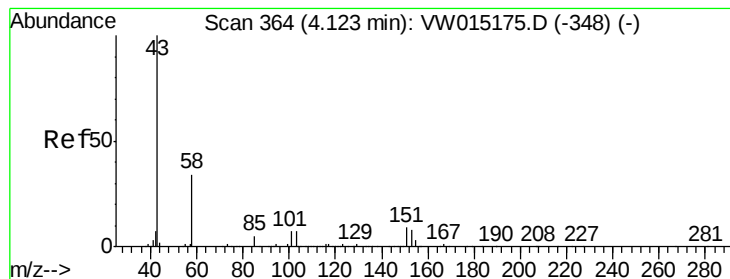
| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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Quant Title : VOC Analysis  
QLast Update : Fri Apr 10 13:10:27 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 11.655 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW015183.D

Acq: 10 Apr 2020 17:00

Instrument :

MSVOA\_W

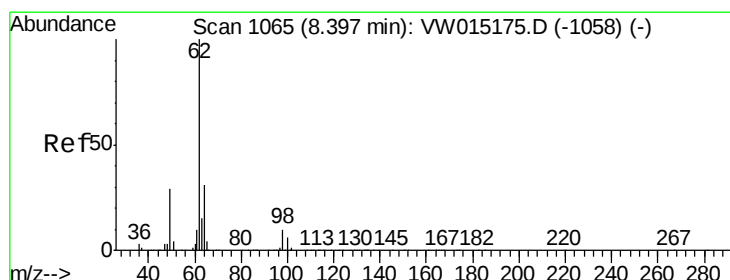
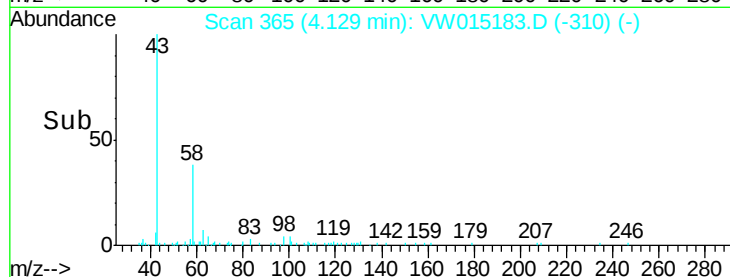
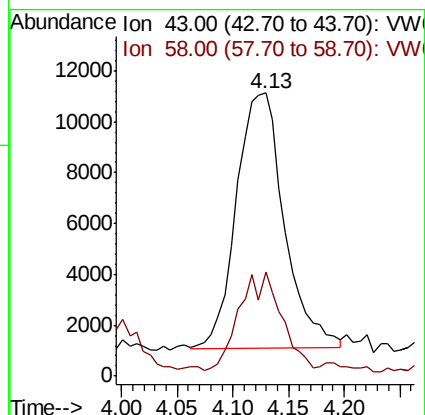
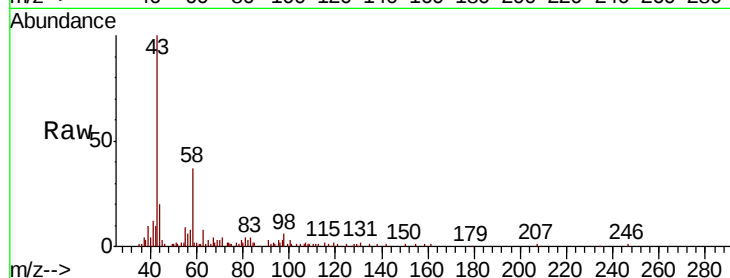
ClientSampleId :

Tot Ion: 43 Resp: 30029

Ion Ratio Lower Upper

43 100

58 17.5 0.0 64.6



#27

1,2-Dichloroethane

Concen: 0.460 ug/L

RT: 8.27 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW015183.D

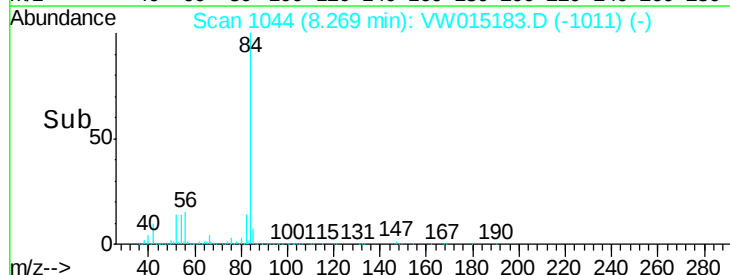
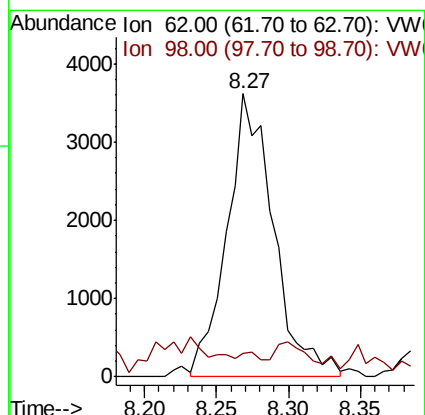
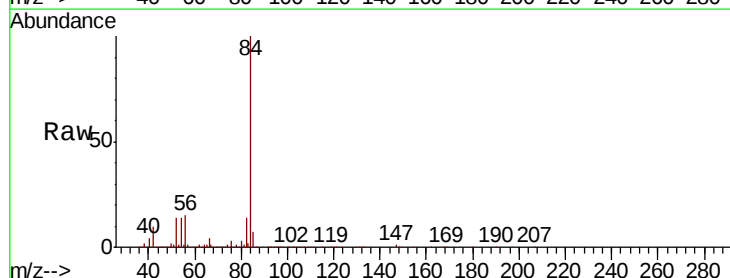
Acq: 10 Apr 2020 17:00

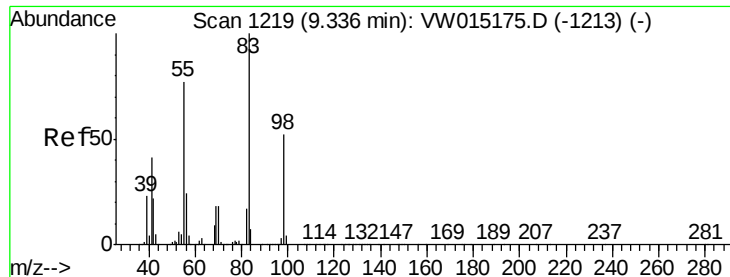
Tgt Ion: 62 Resp: 8125

Ion Ratio Lower Upper

62 100

98 8.5 7.9 11.9

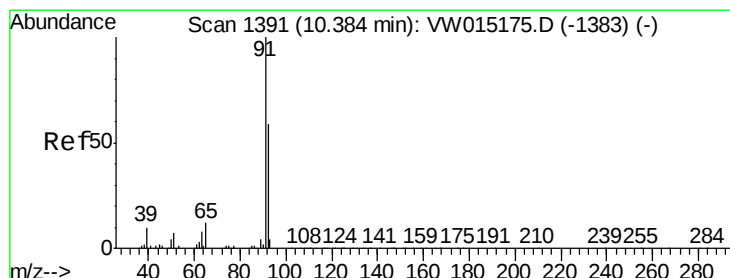
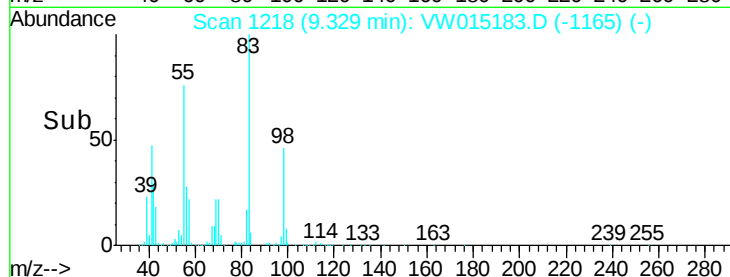
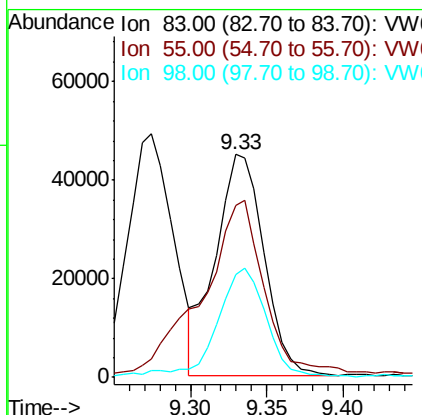
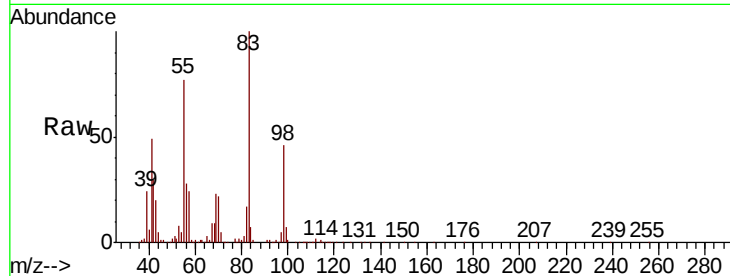




#36  
Methvlcvclohexane  
Concen: 3.189 ug/L  
RT: 9.33 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: VW015183.D  
Acq: 10 Apr 2020 17:00

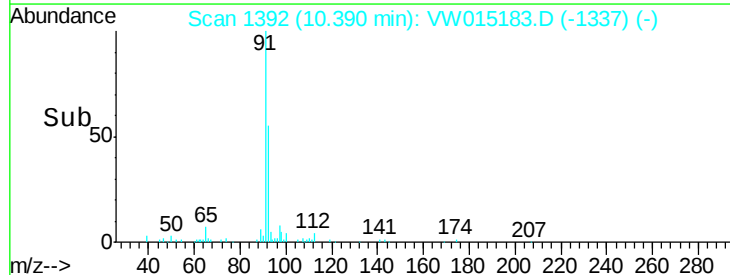
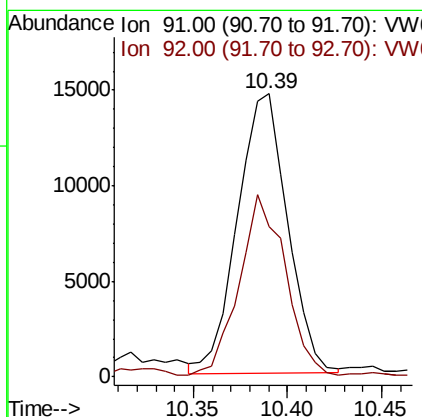
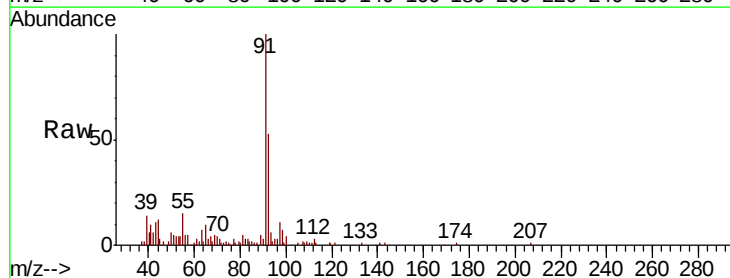
Instrument :  
MSVOA\_W  
ClientSampleId :

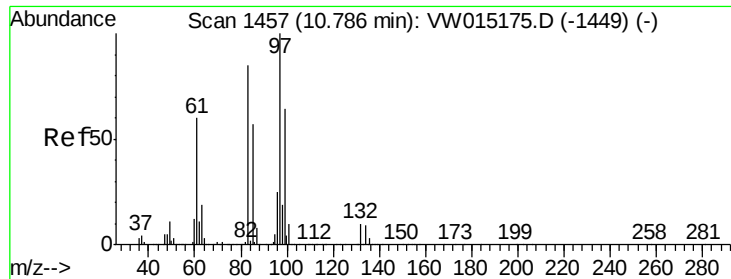
Tot Ion: 83 Resp: 99247  
Ion Ratio Lower Upper  
83 100  
55 98.1 60.6 91.0#  
98 47.0 39.4 59.0



#44  
Toluene  
Concen: 0.393 ug/L  
RT: 10.39 min Scan# 1392  
Delta R.T. 0.01 min  
Lab File: VW015183.D  
Acq: 10 Apr 2020 17:00

Tgt Ion: 91 Resp: 26901  
Ion Ratio Lower Upper  
91 100  
92 53.1 41.6 77.2

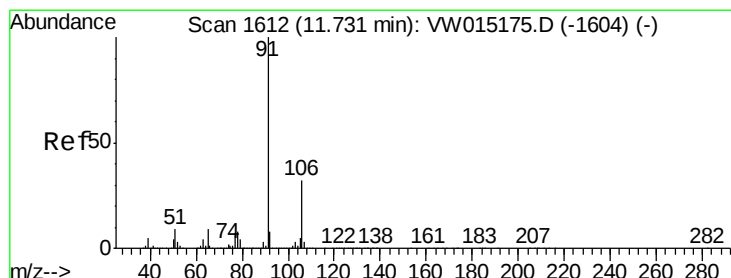
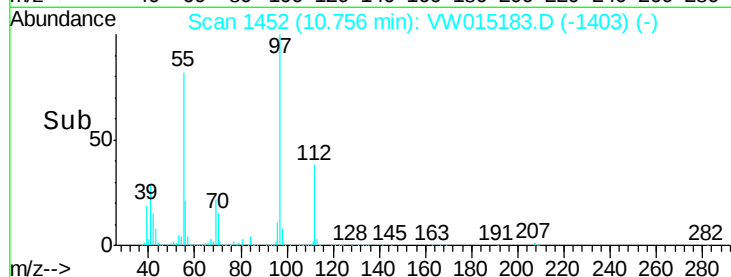
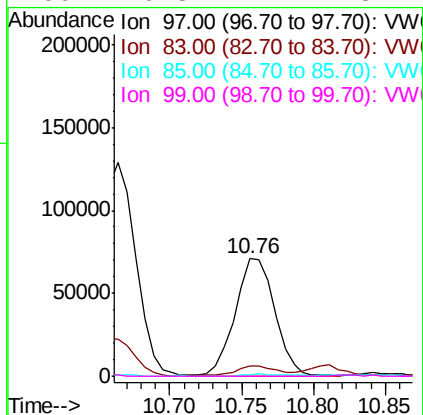
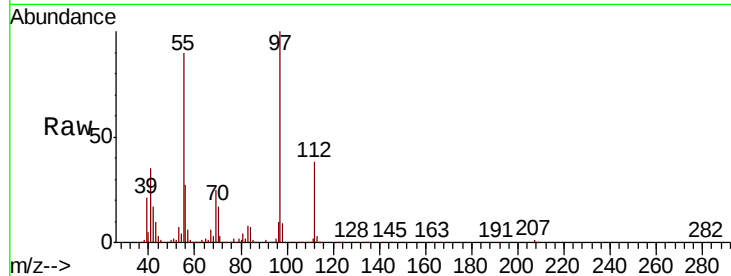




#46  
 1,1,2-Trichloroethane  
 Concen: 11.986 ug/L  
 RT: 10.76 min Scan# 1452  
 Delta R.T. -0.03 min  
 Lab File: VW015183.D  
 Acq: 10 Apr 2020 17:00

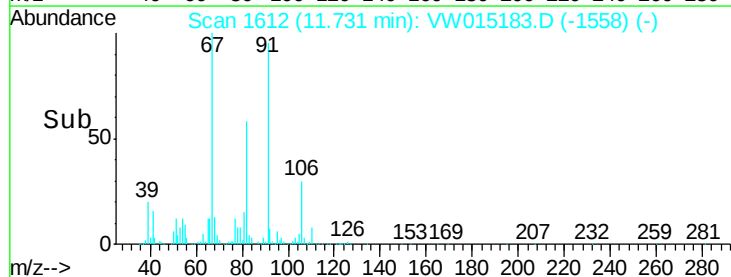
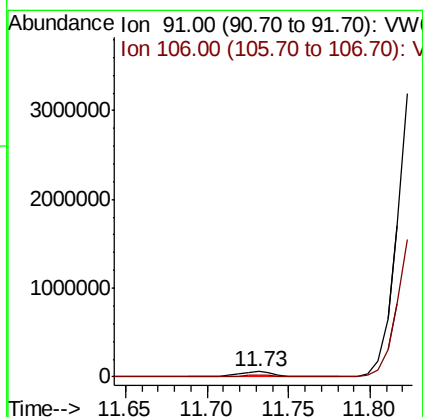
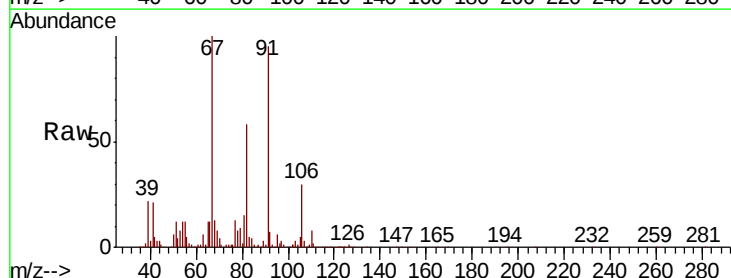
Instrument :  
 MSVOA\_W  
 ClientSampleId :

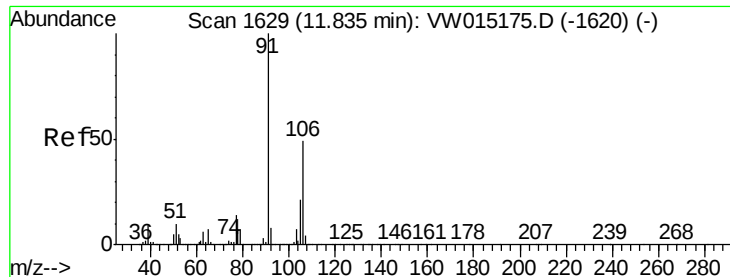
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 135157 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 8.3   | 59.8  | 111.0# |
| 85       | 1.0   | 39.8  | 73.8#  |
| 99       | 0.3   | 44.4  | 82.4#  |



#53  
 Ethylbenzene  
 Concen: 1.264 ug/L  
 RT: 11.73 min Scan# 1612  
 Delta R.T. 0.00 min  
 Lab File: VW015183.D  
 Acq: 10 Apr 2020 17:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 97209 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 106      | 31.9  | 22.5  | 41.7  |





#54

m,p-Xylene

Concen: 116.440 ug/L

RT: 11.83 min Scan# 1628

Delta R.T. -0.01 min

Lab File: VW015183.D

Acq: 10 Apr 2020 17:00

Instrument :

MSVOA\_W

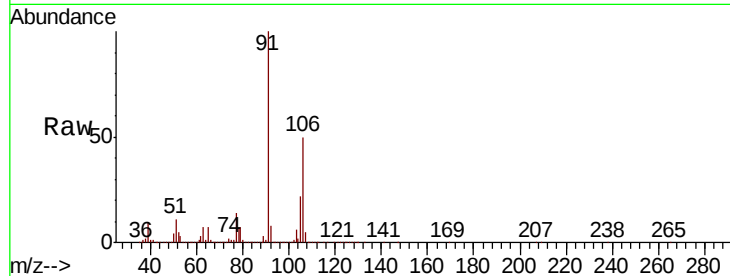
ClientSampleId :

Tot Ion:106 Resp: 3433598

Ion Ratio Lower Upper

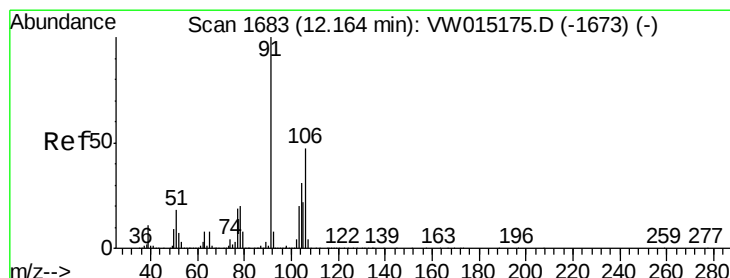
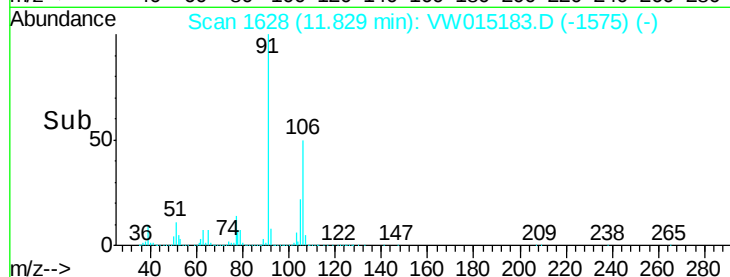
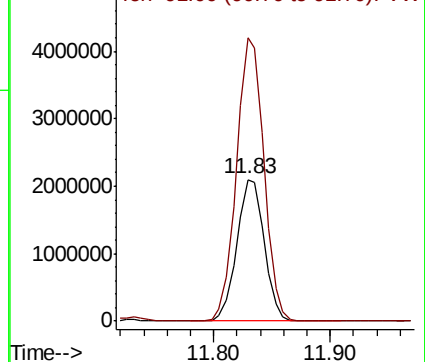
106 100

91 199.9 142.7 264.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 33.673 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW015183.D

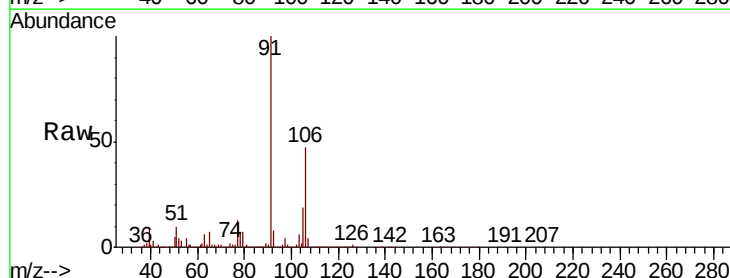
Acq: 10 Apr 2020 17:00

Tgt Ion:106 Resp: 949037

Ion Ratio Lower Upper

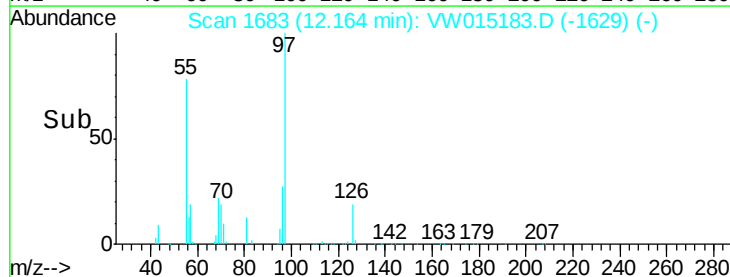
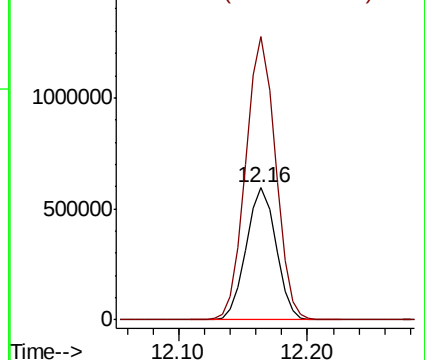
106 100

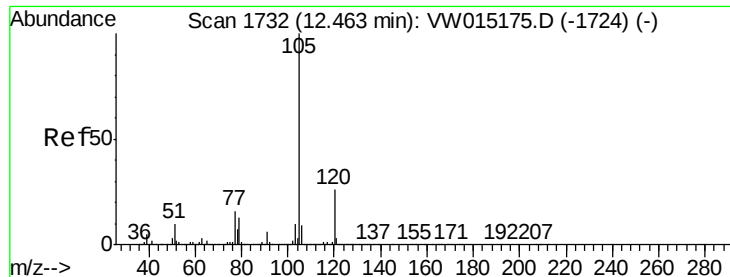
91 214.3 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 3.684 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015183.D

Acq: 10 Apr 2020 17:00

Instrument :

MSVOA\_W

ClientSampled :

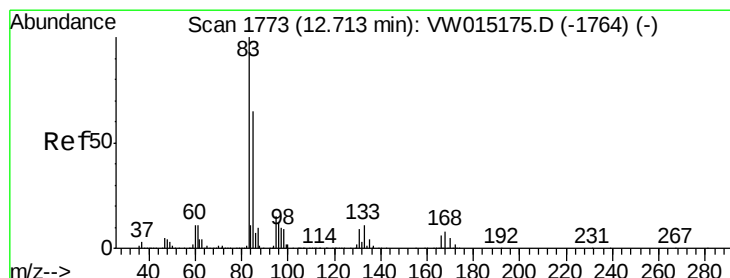
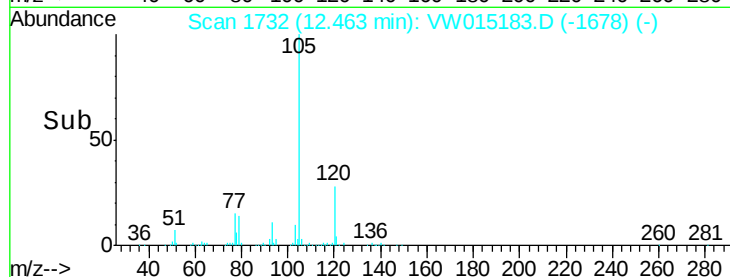
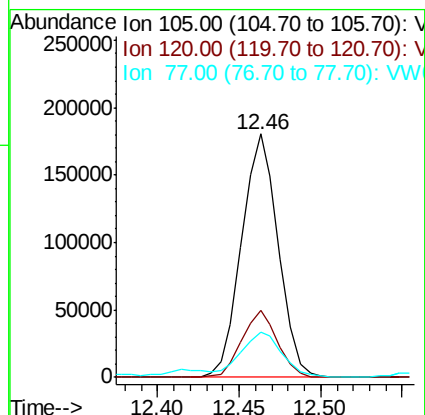
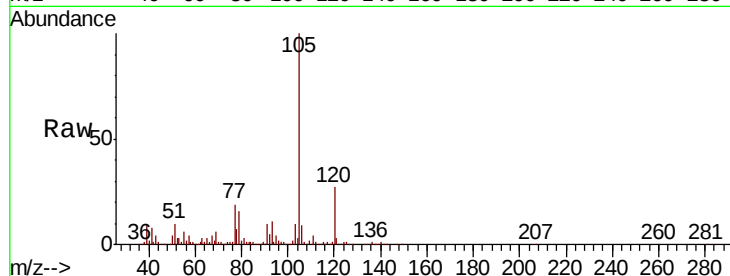
Tot Ion:105 Resp: 280309

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

77 20.4 12.8 19.2#



#58

1,1,2,2-Tetrachloroethane

Concen: 1.134 ug/L

RT: 12.69 min Scan# 1769

Delta R.T. -0.02 min

Lab File: VW015183.D

Acq: 10 Apr 2020 17:00

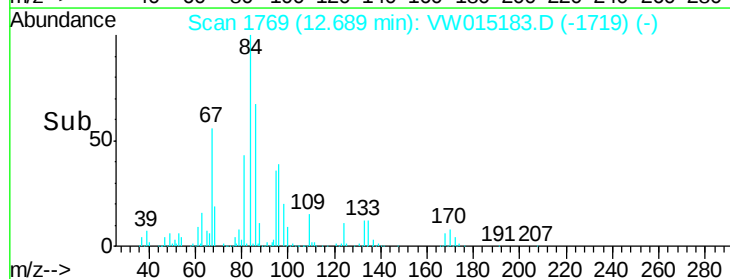
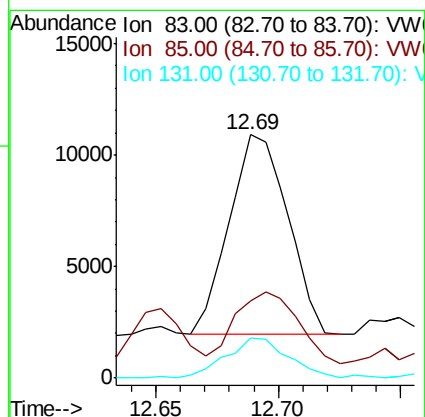
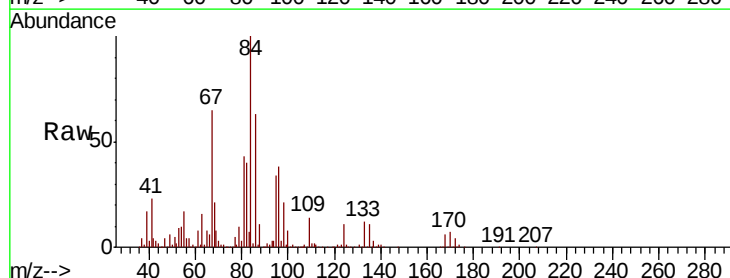
Tgt Ion: 83 Resp: 14905

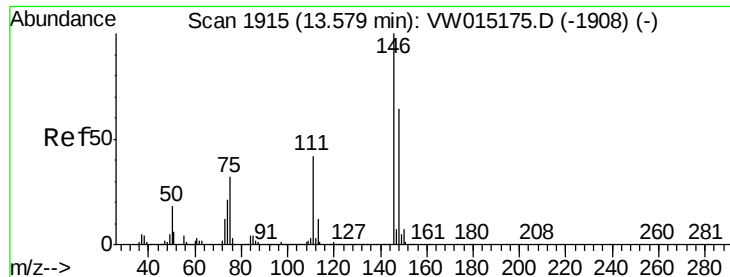
Ion Ratio Lower Upper

83 100

85 31.7 45.8 85.0#

131 16.3 7.2 10.8#

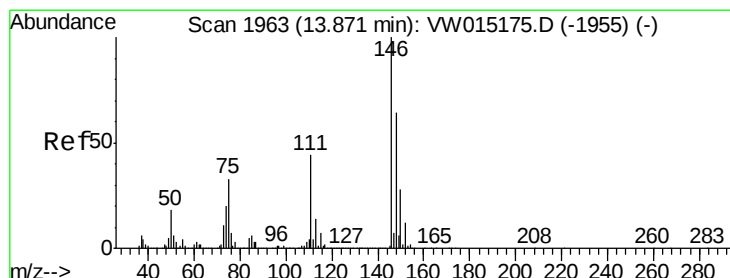
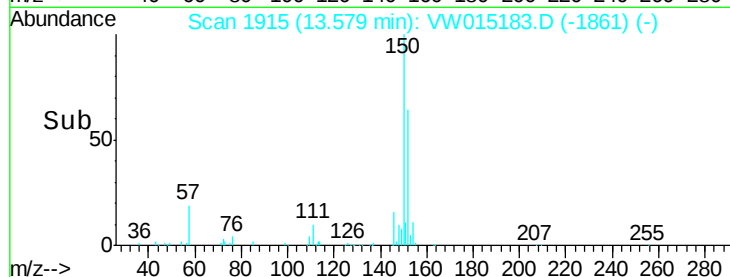
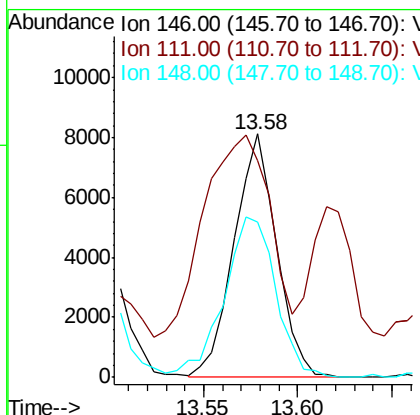
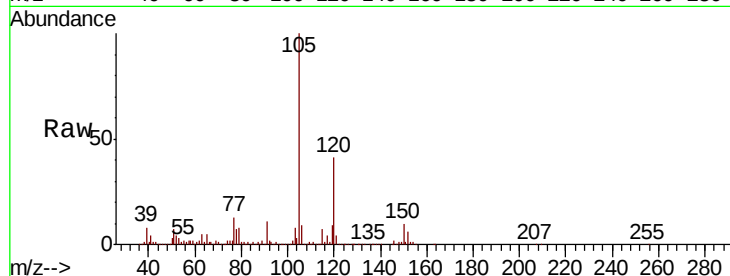




#64  
 1,4-Dichlorobenzene  
 Concen: 0.471 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW015183.D  
 Acq: 10 Apr 2020 17:00

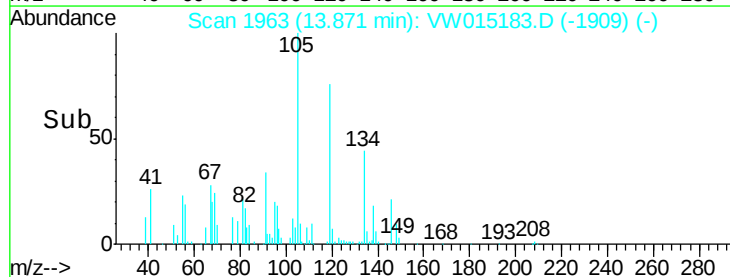
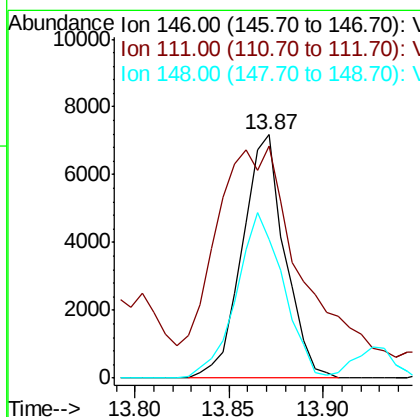
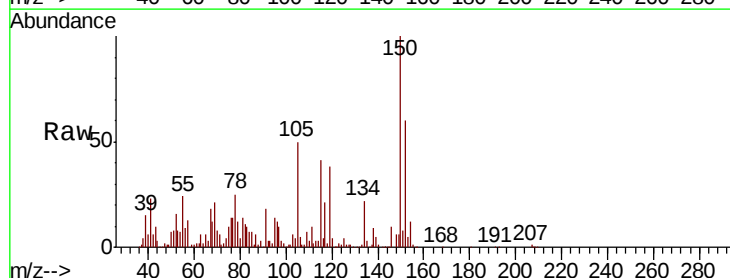
Instrument :  
 MSVOA\_W  
 ClientSampleId :

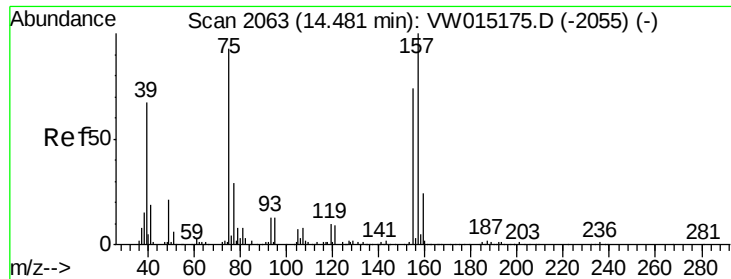
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 89.2  | 29.4  | 54.6# |
| 148     | 64.0  | 44.8  | 83.2  |



#65  
 1,2-Dichlorobenzene  
 Concen: 0.456 ug/L  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW015183.D  
 Acq: 10 Apr 2020 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 95.5  | 35.2  | 52.8# |
| 148     | 57.2  | 51.6  | 77.4  |





#66

1,2-Dibromo-3-chloropropane

Concen: 4.062 ug/L

RT: 14.46 min Scan# 2059

Delta R.T. -0.02 min

Lab File: VW015183.D

Acq: 10 Apr 2020 17:00

Instrument :

MSVOA\_W

ClientSampled :

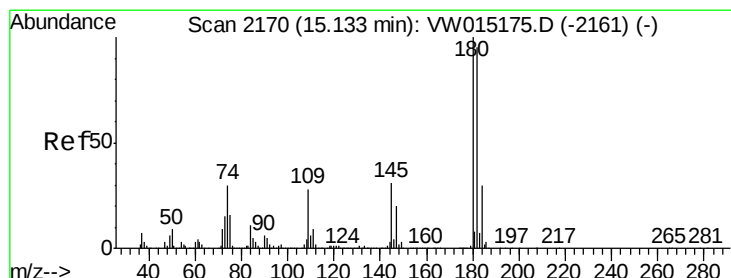
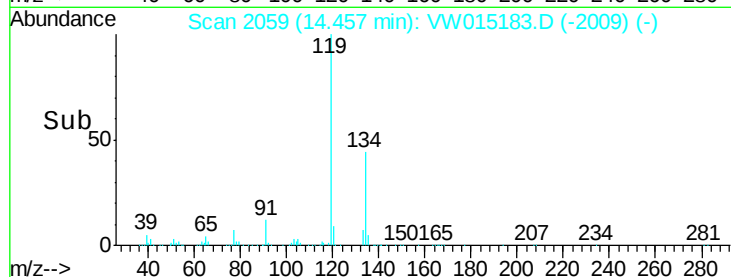
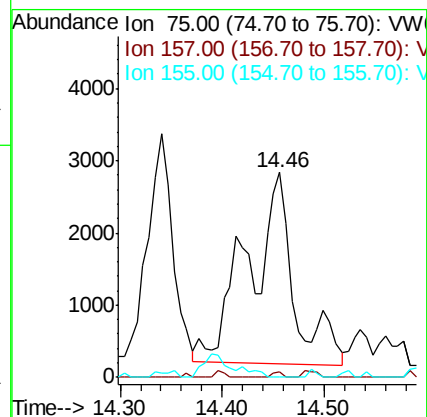
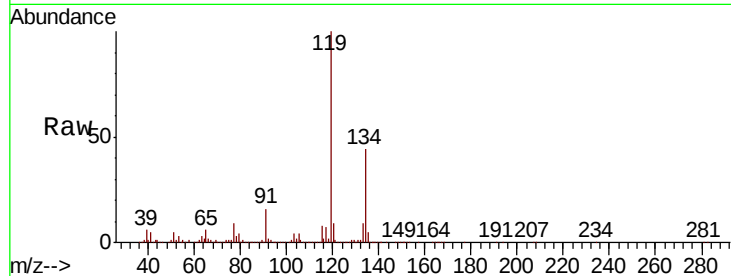
Tot Ion: 75 Resp: 8288

Ion Ratio Lower Upper

75 100

157 2.5 85.7 128.5#

155 0.0 63.8 95.6#



#68

1,2,4-trichlorobenzene

Concen: 0.784 ug/L

RT: 15.13 min Scan# 2169

Delta R.T. -0.01 min

Lab File: VW015183.D

Acq: 10 Apr 2020 17:00

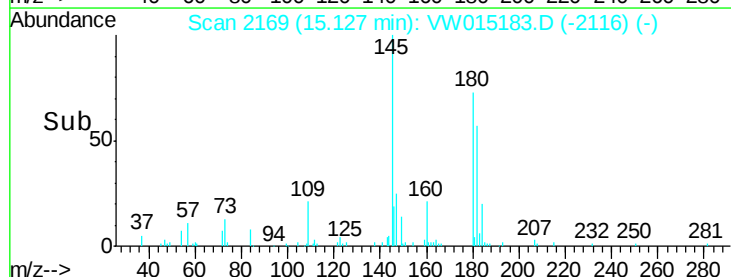
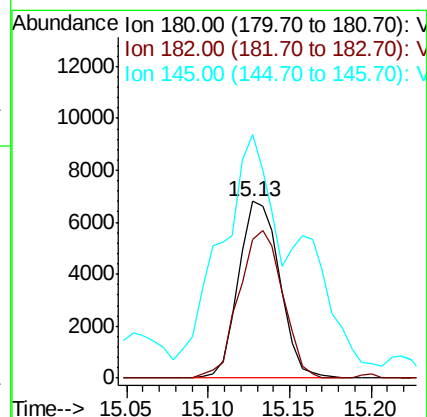
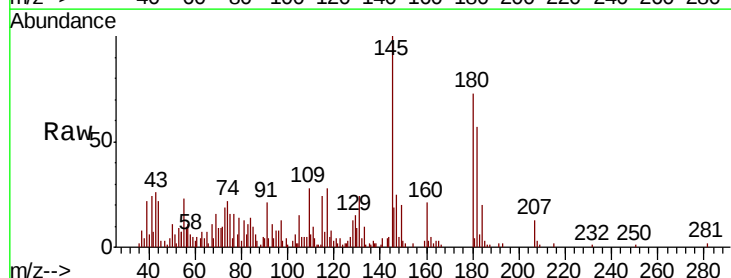
Tgt Ion: 180 Resp: 11955

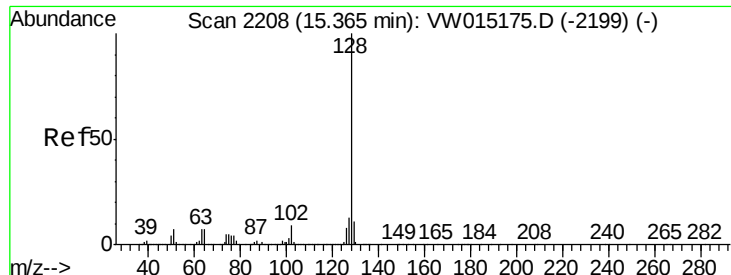
Ion Ratio Lower Upper

180 100

182 88.6 77.7 116.5

145 127.2 25.9 38.9#





#69

Naphthalene

Concen: 5.616 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

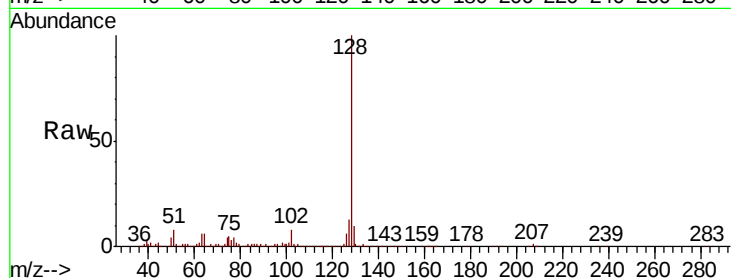
Lab File: VW015183.D

Acq: 10 Apr 2020 17:00

Instrument :

MSVOA\_W

ClientSampleId :



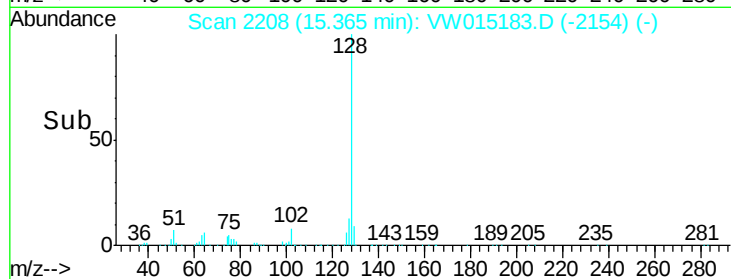
Tot Ion:128 Resp: 171522

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

127 13.5 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V

