

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012919\  
 Data File : VW008451.D  
 Acq On : 29 Jan 2019 15:01  
 Operator : SY/VA  
 Sample : K1008-03  
 Misc : 6.22G/5ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

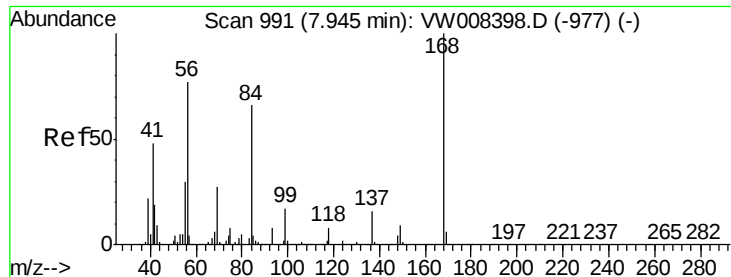
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 HD-01-012819

Quant Time: Jan 30 03:28:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 175814   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.84  | 114  | 281593   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 212167   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 80581    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 92083    | 53.31  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 106.62% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 88339    | 53.65  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 107.30% |          |
| 50) Toluene-d8              | 10.32 | 98   | 305450   | 46.26  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 92.52%  |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 91803    | 36.17  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 72.34%  |          |
| Target Compounds            |       |      |          |        |         |          |
|                             |       |      |          |        | Qvalue  |          |
| 16) Acetone                 | 4.12  | 43   | 26949    | 69.479 | ug/l    | 91       |
| 20) Methylene Chloride      | 4.90  | 84   | 18799    | 10.516 | ug/l    | 93       |
| 52) Toluene                 | 10.38 | 92   | 5947     | 1.221  | ug/l    | 99       |
| 67) Ethyl Benzene           | 11.73 | 91   | 11268    | 1.415  | ug/l    | 90       |
| 68) m/p-Xylenes             | 11.83 | 106  | 19404    | 6.282  | ug/l    | 97       |
| 69) o-Xylene                | 12.16 | 106  | 20724    | 7.061  | ug/l    | 99       |
| 73) Isopropylbenzene        | 12.46 | 105  | 10074    | 1.677  | ug/l    | 95       |
| 78) n-propylbenzene         | 12.80 | 91   | 50707    | 7.028  | ug/l    | 96       |
| 80) 1,3,5-Trimethylbenzene  | 12.94 | 105  | 81531    | 16.237 | ug/l    | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.26 | 105  | 424741   | 83.222 | ug/l    | 98       |
| 85) sec-Butylbenzene        | 13.38 | 105  | 35075    | 5.496  | ug/l    | 85       |
| 86) p-Isopropyltoluene      | 13.50 | 119  | 28339    | 5.070  | ug/l    | 99       |
| 89) n-Butylbenzene          | 13.83 | 91   | 68034    | 12.396 | ug/l #  | 81       |
| 95) Naphthalene             | 15.37 | 128  | 60586    | 20.624 | ug/l #  | 94       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

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ClientSampleId :

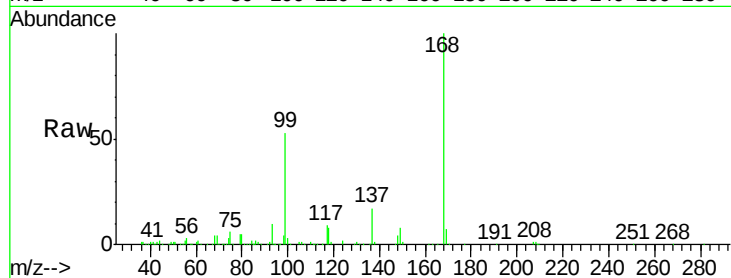
HD-01-012819

Tot Ion:168 Resp: 175814

Ion Ratio Lower Upper

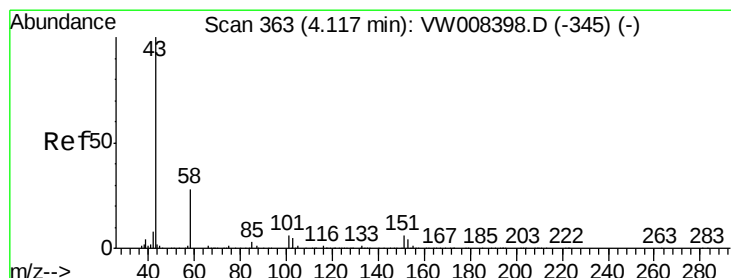
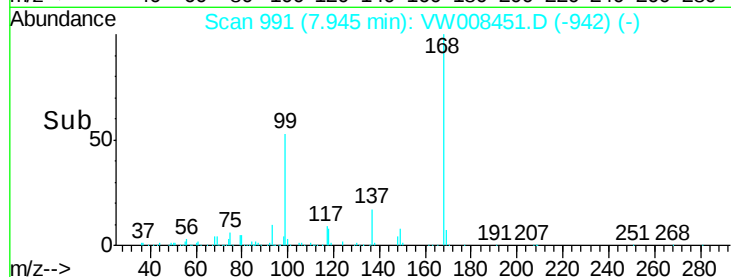
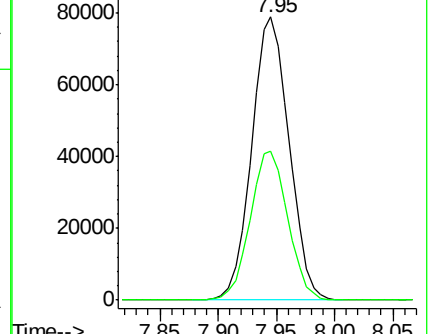
168 100

99 52.5 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 69.479 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008451.D

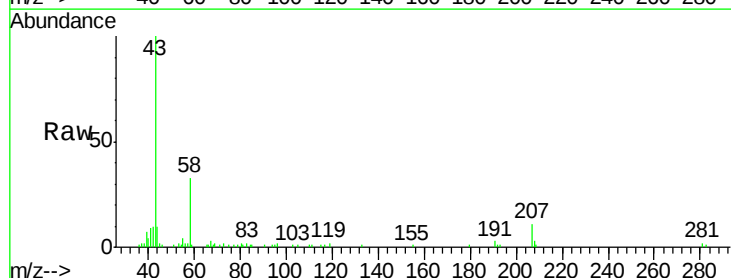
Acq: 29 Jan 2019 15:01

Tgt Ion: 43 Resp: 26949

Ion Ratio Lower Upper

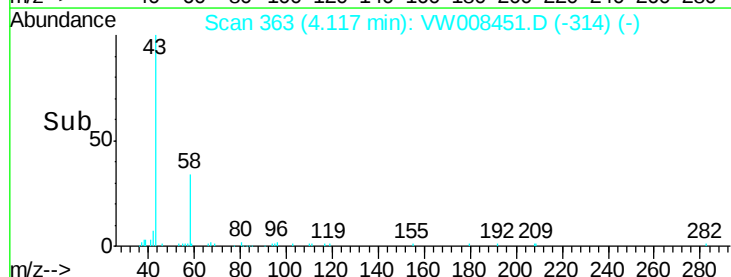
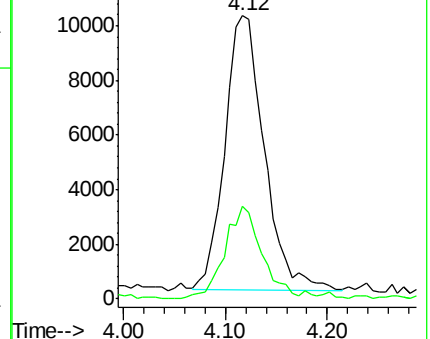
43 100

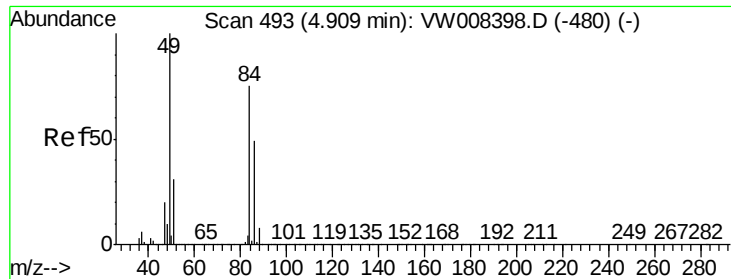
58 33.1 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

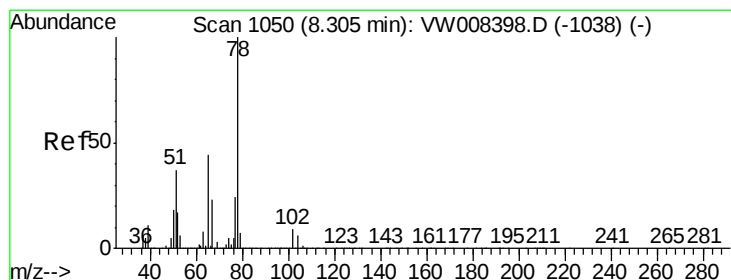
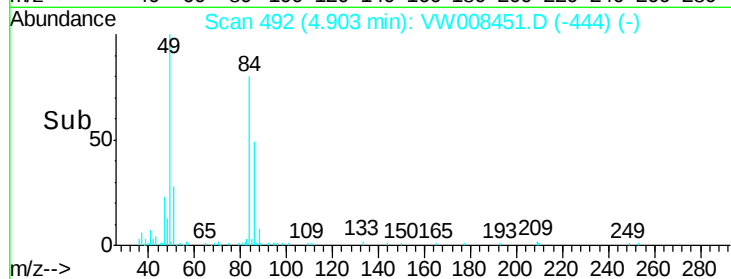
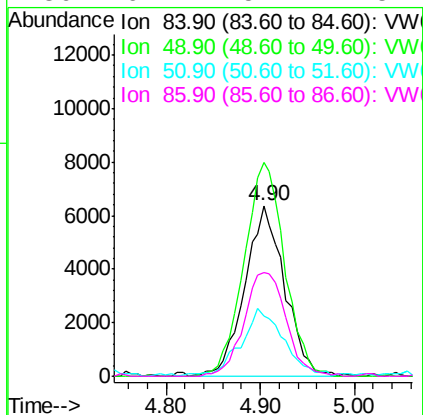
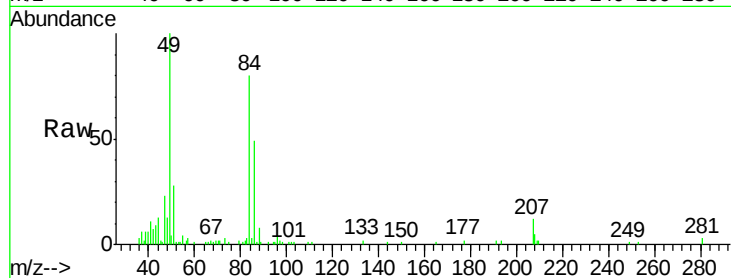




#20  
Methylene Chloride  
Concen: 10.516 ug/l  
RT: 4.90 min Scan# 492  
Delta R.T. -0.01 min  
Lab File: VW008451.D  
Acq: 29 Jan 2019 15:01

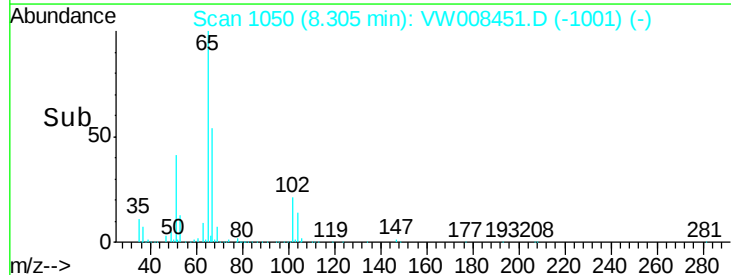
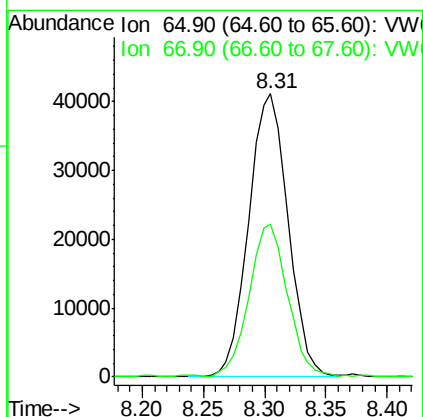
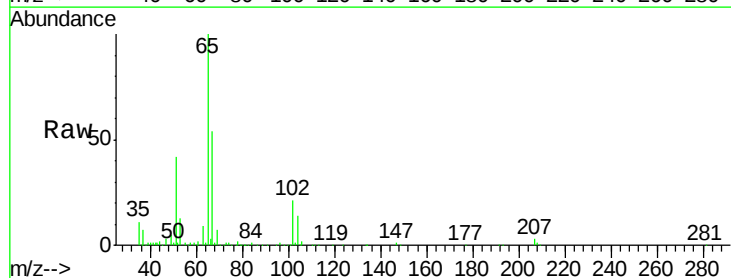
Instrument :  
MSVOA\_W  
ClientSampleId :  
HD-01-012819

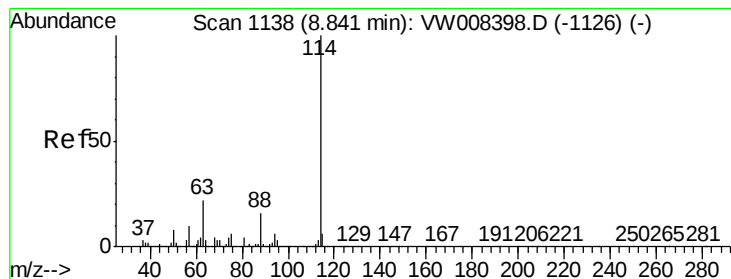
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 18799 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 125.5 | 106.8 | 160.2 |
| 51       | 33.7  | 32.9  | 49.3  |
| 86       | 61.1  | 52.2  | 78.2  |



#33  
1,2-Dichloroethane-d4  
Concen: 53.313 ug/l  
RT: 8.31 min Scan# 1050  
Delta R.T. 0.00 min  
Lab File: VW008451.D  
Acq: 29 Jan 2019 15:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 92083 |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 53.1  | 0.0   | 104.0 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

Instrument :

MSVOA\_W

ClientSampleId :

HD-01-012819

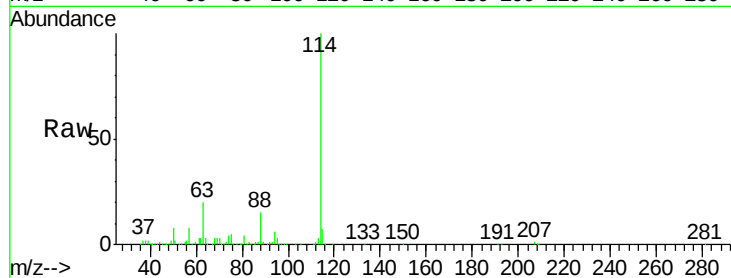
Tot Ion:114 Resp: 281593

Ion Ratio Lower Upper

114 100

63 20.0 0.0 43.6

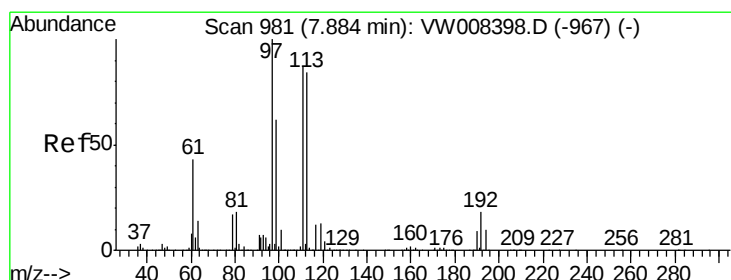
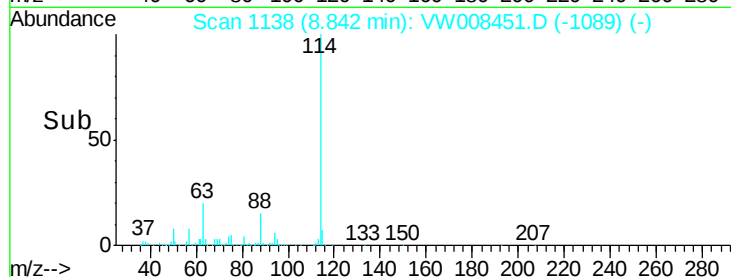
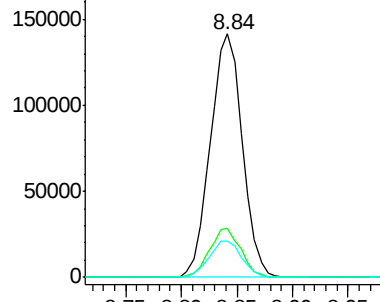
88 14.7 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 53.650 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

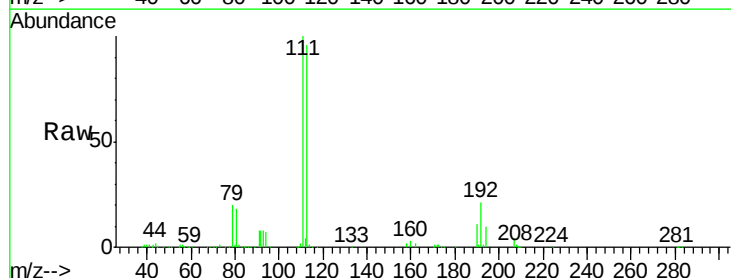
Tgt Ion:113 Resp: 88339

Ion Ratio Lower Upper

113 100

111 103.1 81.0 121.4

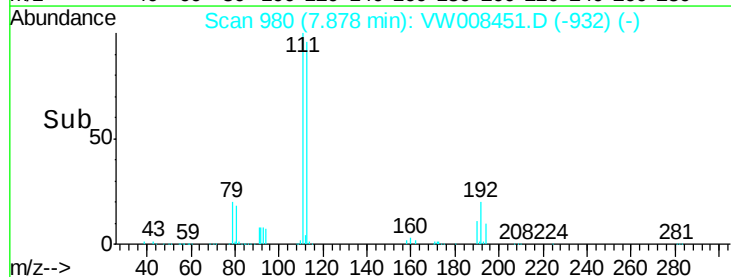
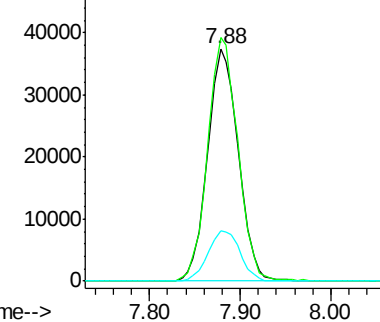
192 22.5 16.8 25.2

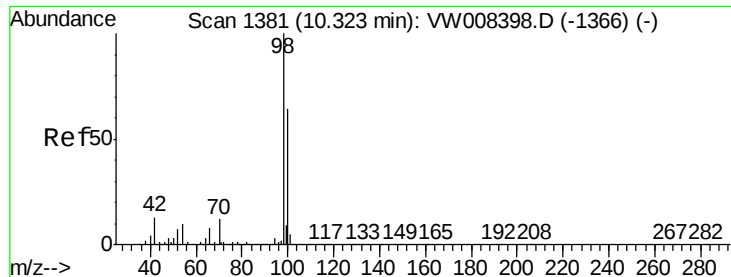


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 46.261 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

Instrument :

MSVOA\_W

ClientSampleId :

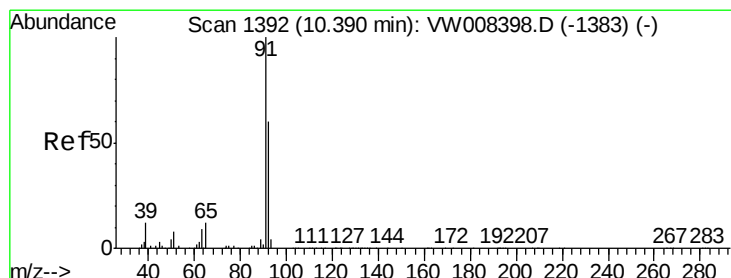
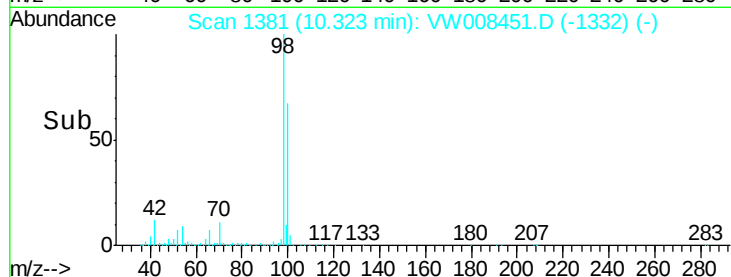
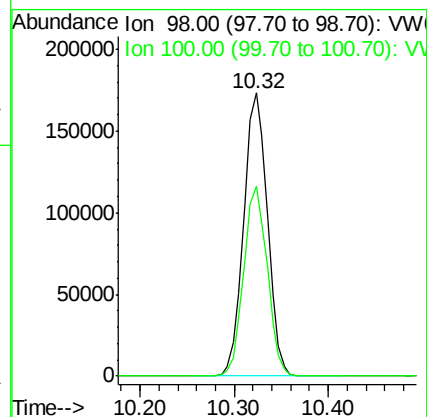
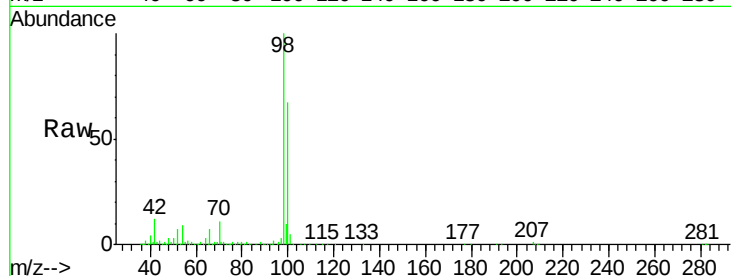
HD-01-012819

Tot Ion: 98 Resp: 305450

Ion Ratio Lower Upper

98 100

100 66.5 52.6 78.8



#52

Toluene

Concen: 1.221 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008451.D

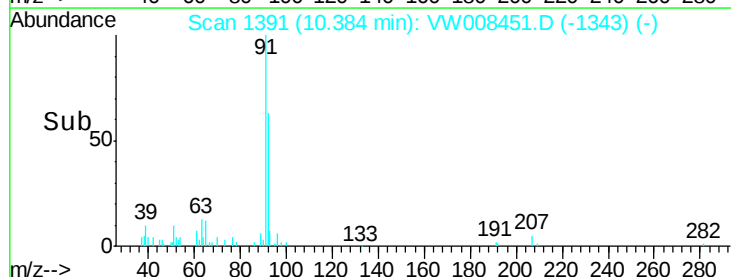
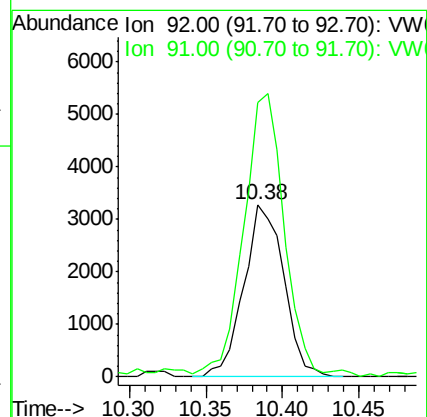
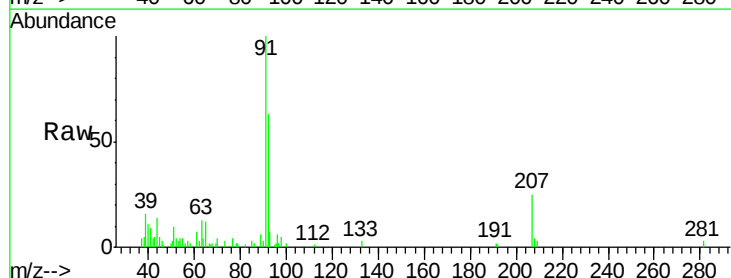
Acq: 29 Jan 2019 15:01

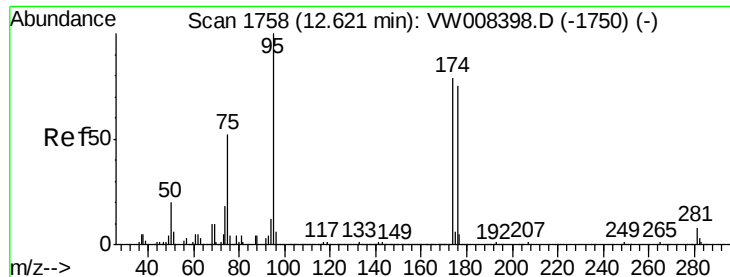
Tgt Ion: 92 Resp: 5947

Ion Ratio Lower Upper

92 100

91 168.1 135.5 203.3





#62

4-Bromofluorobenzene

Concen: 36.171 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

Instrument :

MSVOA\_W

ClientSampleId :

HD-01-012819

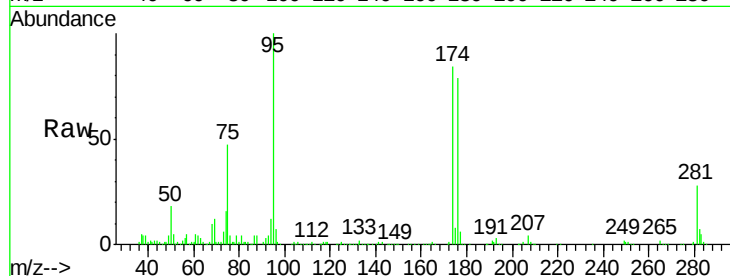
Tot Ion: 95 Resp: 91803

Ion Ratio Lower Upper

95 100

174 83.4 0.0 157.6

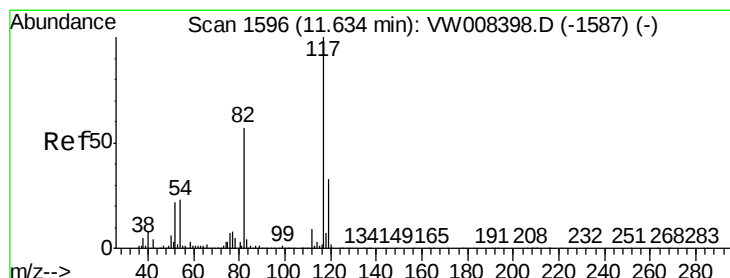
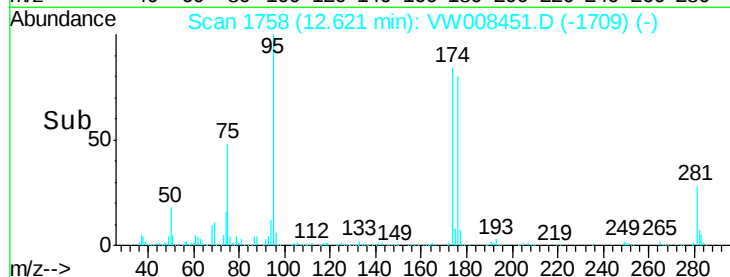
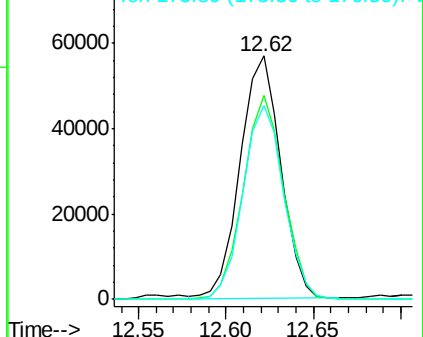
176 80.5 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

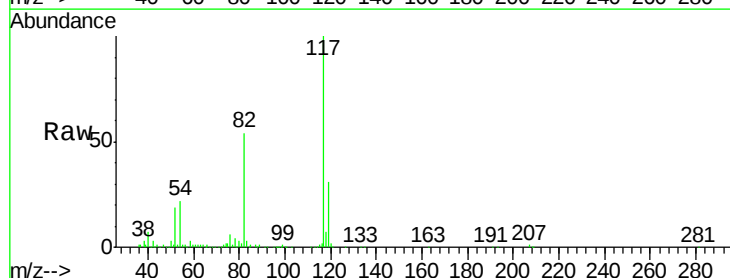
Tgt Ion: 117 Resp: 212167

Ion Ratio Lower Upper

117 100

82 53.9 45.4 68.0

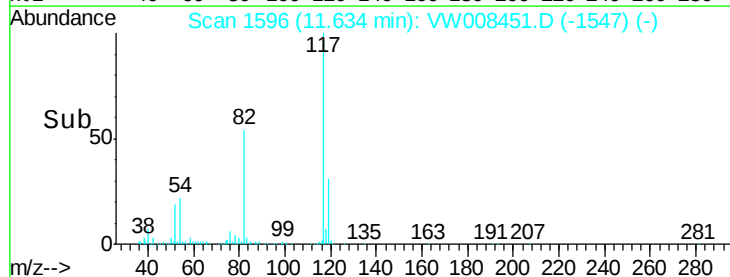
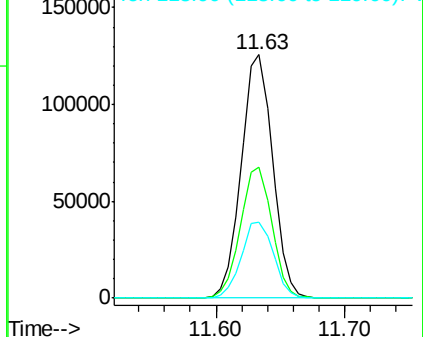
119 31.2 26.2 39.4

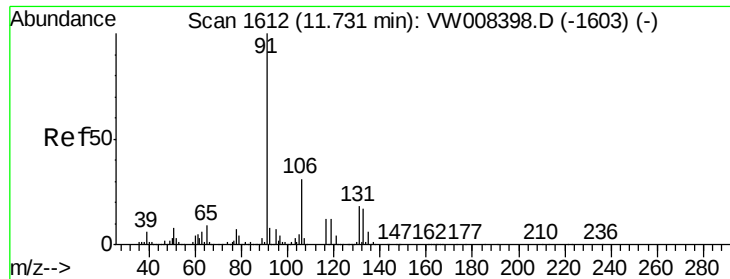


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

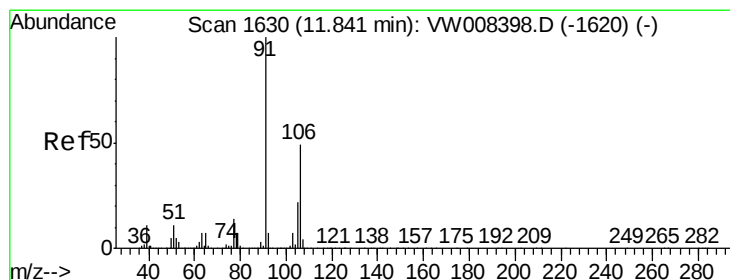
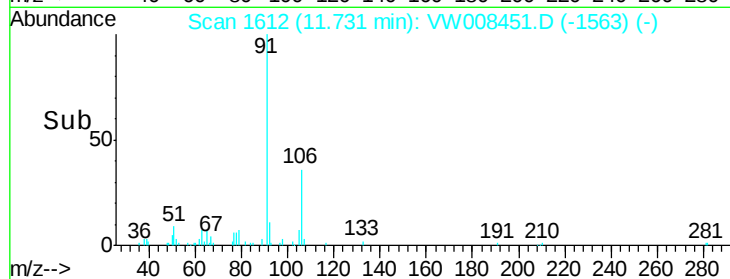
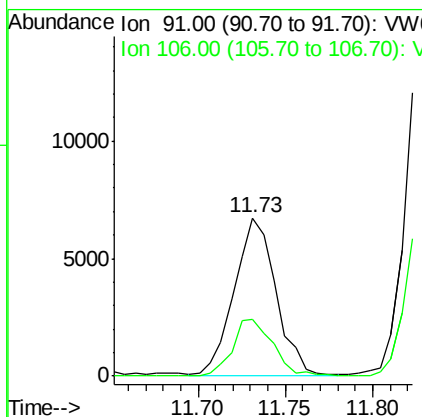
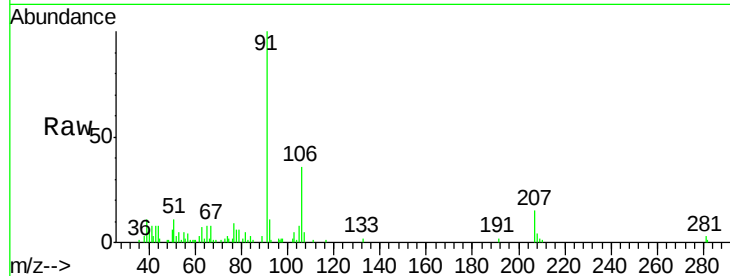




#67  
Ethyl Benzene  
Concen: 1.415 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW008451.D  
Acq: 29 Jan 2019 15:01

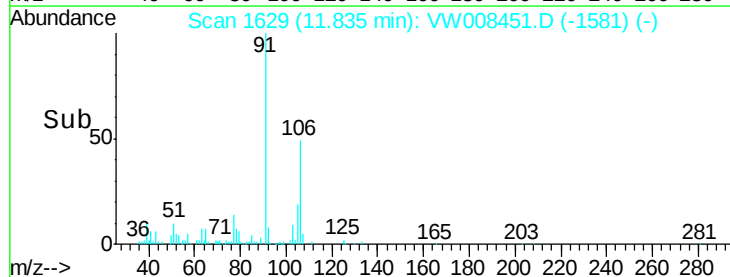
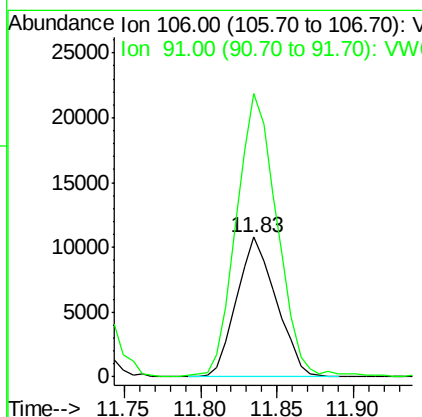
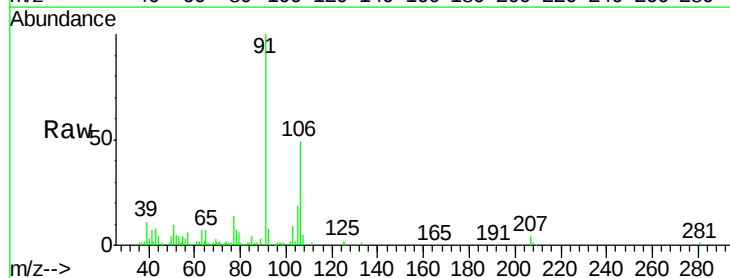
Instrument :  
MSVOA\_W  
ClientSampled :  
HD-01-012819

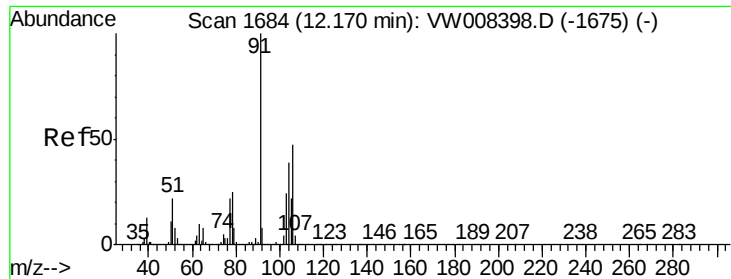
Tot Ion: 91 Resp: 11268  
Ion Ratio Lower Upper  
91 100  
106 36.1 24.7 37.1



#68  
m/p-Xylenes  
Concen: 6.282 ug/l  
RT: 11.83 min Scan# 1629  
Delta R.T. -0.01 min  
Lab File: VW008451.D  
Acq: 29 Jan 2019 15:01

Tgt Ion: 106 Resp: 19404  
Ion Ratio Lower Upper  
106 100  
91 208.8 162.9 244.3

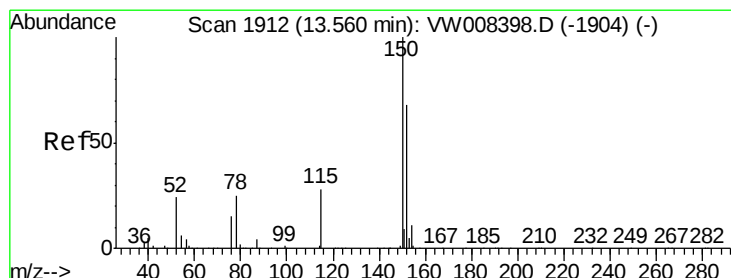
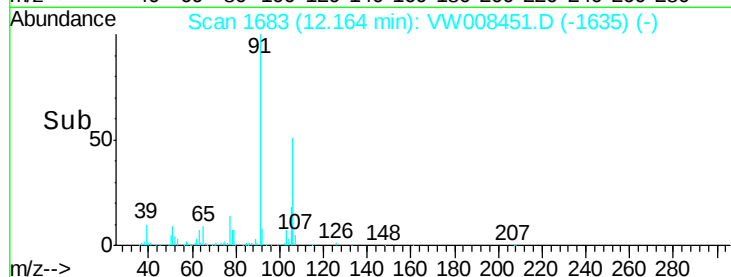
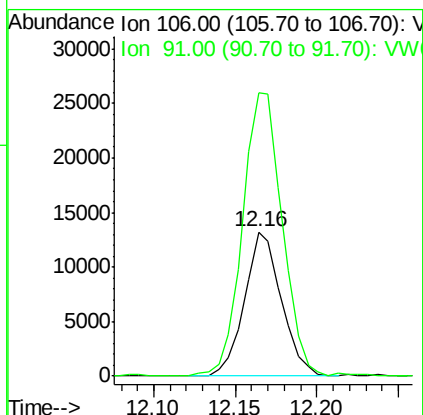
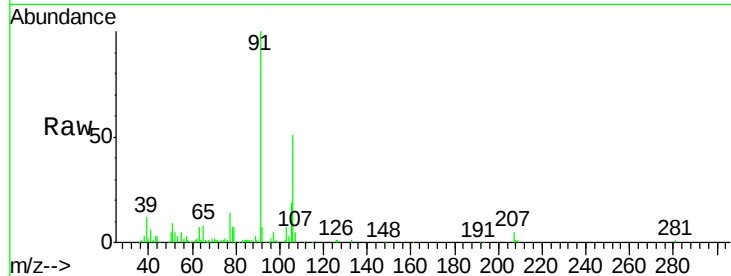




#69  
o-Xylene  
Concen: 7.061 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. -0.01 min  
Lab File: VW008451.D  
Acq: 29 Jan 2019 15:01

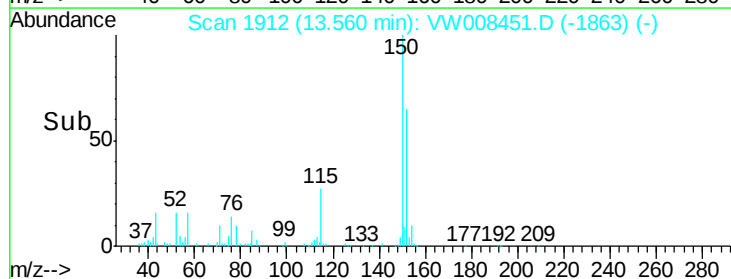
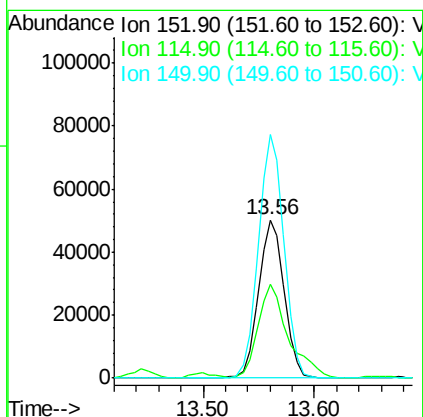
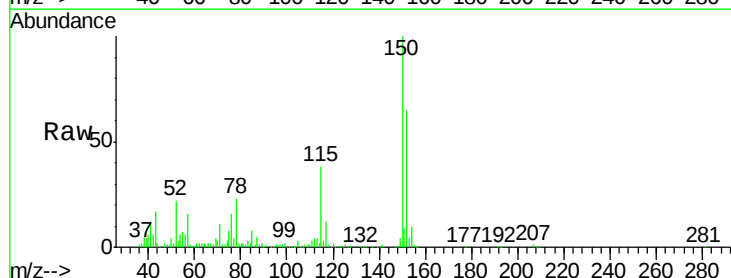
Instrument :  
MSVOA\_W  
ClientSampleId :  
HD-01-012819

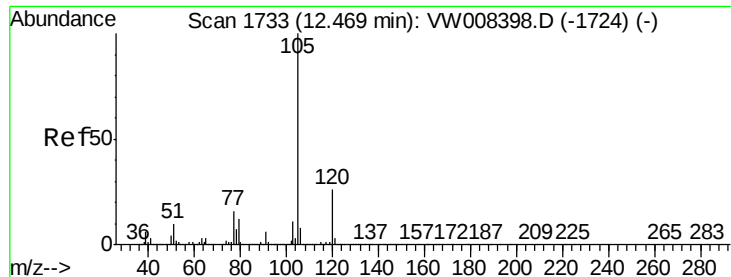
Tot Ion:106 Resp: 20724  
Ion Ratio Lower Upper  
106 100  
91 213.2 107.5 322.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW008451.D  
Acq: 29 Jan 2019 15:01

Tgt Ion:152 Resp: 80581  
Ion Ratio Lower Upper  
152 100  
115 70.0 29.9 89.7  
150 153.4 0.0 351.4





#73

Isopropylbenzene

Concen: 1.677 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

Instrument :

MSVOA\_W

ClientSampleId :

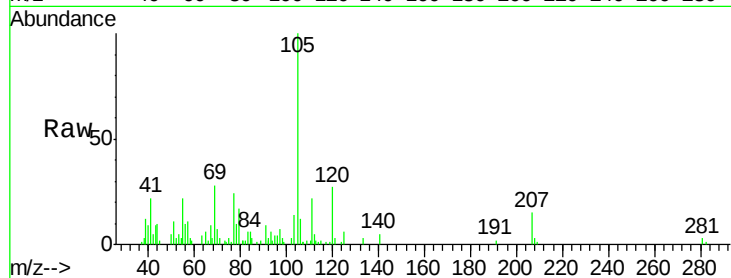
HD-01-012819

Tot Ion:105 Resp: 10074

Ion Ratio Lower Upper

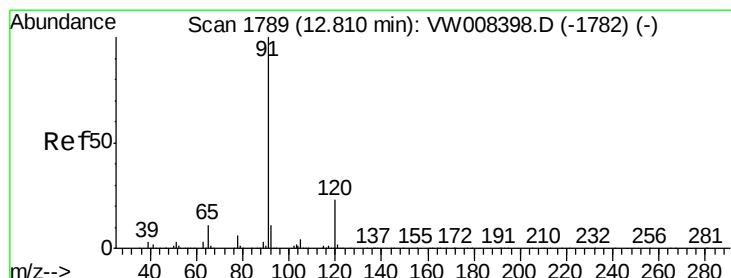
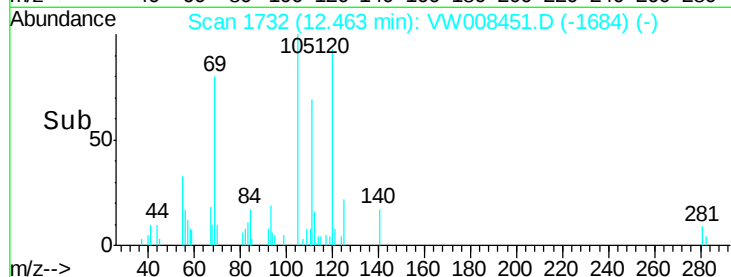
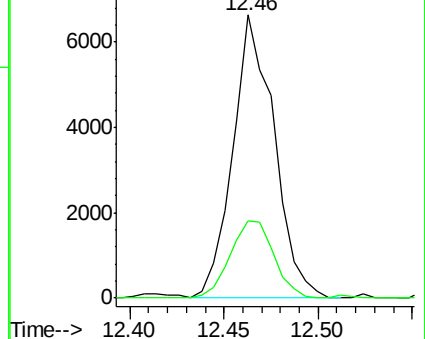
105 100

120 28.8 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 7.028 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VW008451.D

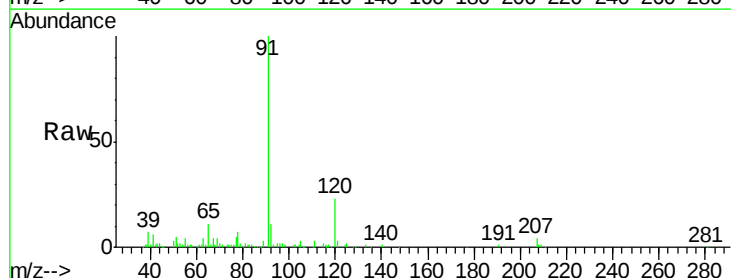
Acq: 29 Jan 2019 15:01

Tgt Ion: 91 Resp: 50707

Ion Ratio Lower Upper

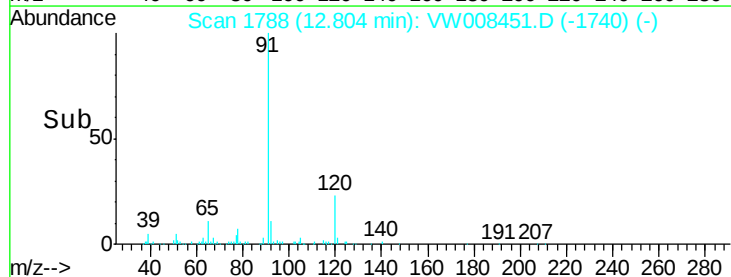
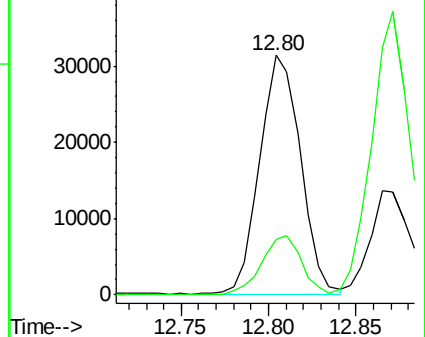
91 100

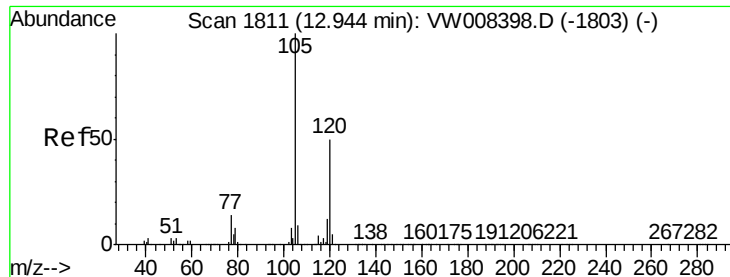
120 24.4 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 16.237 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

Instrument :

MSVOA\_W

ClientSampleId :

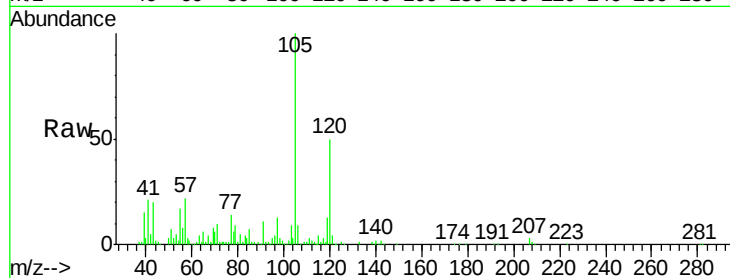
HD-01-012819

Tot Ion:105 Resp: 81531

Ion Ratio Lower Upper

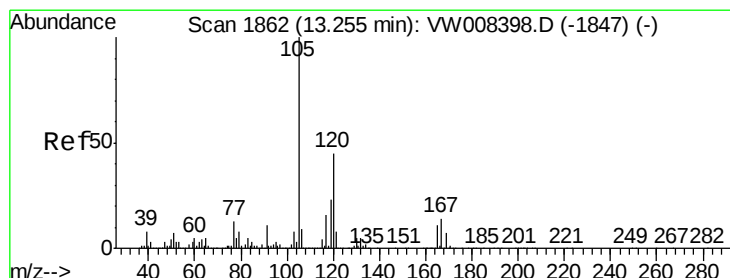
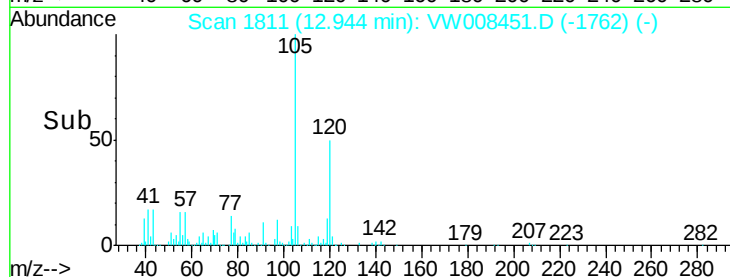
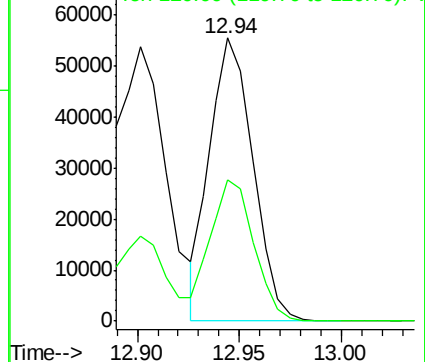
105 100

120 50.3 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 83.222 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW008451.D

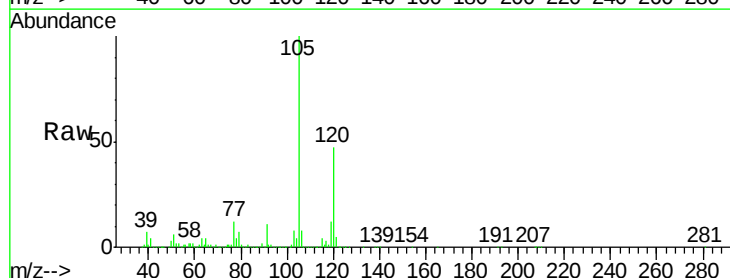
Acq: 29 Jan 2019 15:01

Tgt Ion:105 Resp: 424741

Ion Ratio Lower Upper

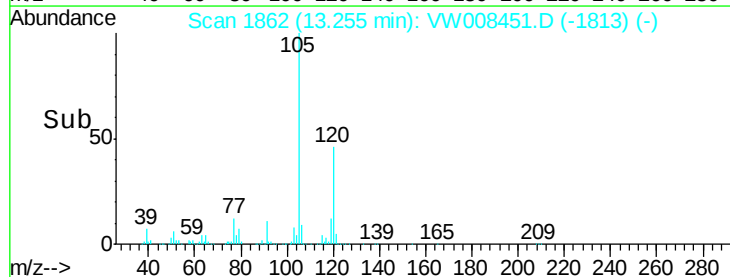
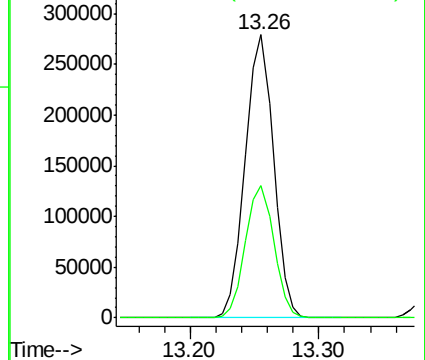
105 100

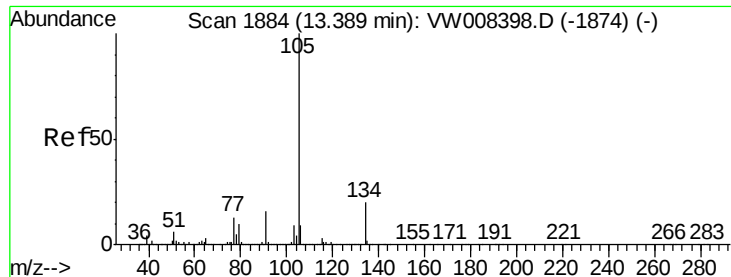
120 47.4 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 5.496 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.01 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

Instrument :

MSVOA\_W

ClientSampleId :

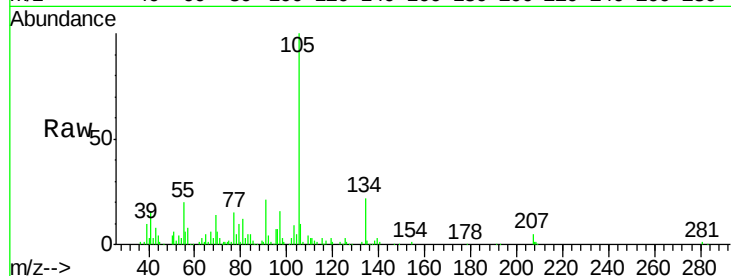
HD-01-012819

Tot Ion:105 Resp: 35075

Ion Ratio Lower Upper

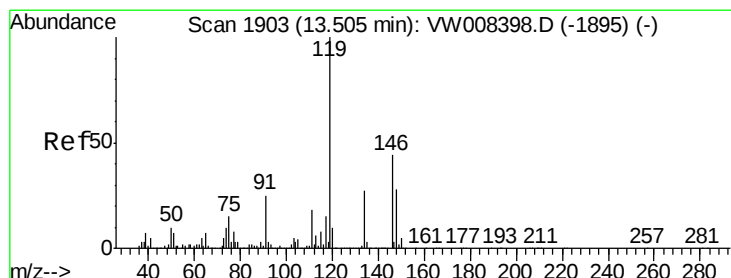
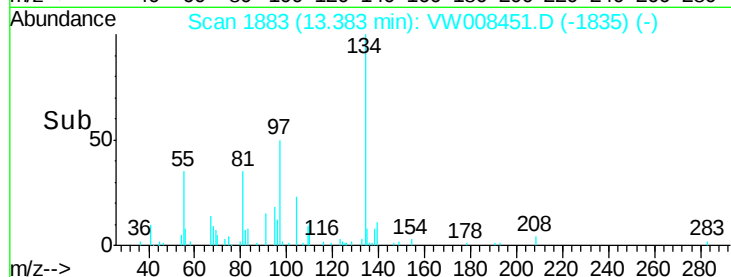
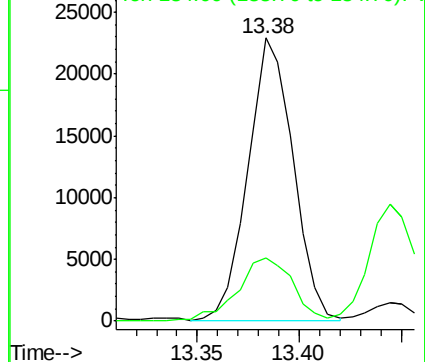
105 100

134 27.4 10.2 30.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.070 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.01 min

Lab File: VW008451.D

Acq: 29 Jan 2019 15:01

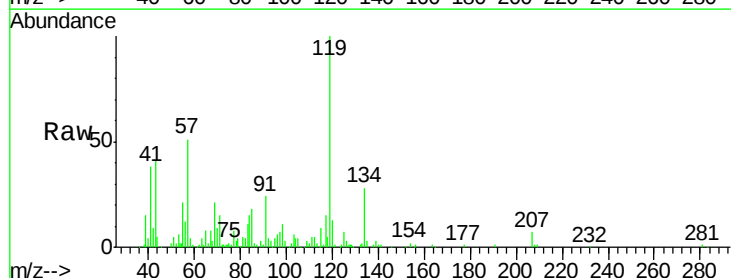
Tgt Ion:119 Resp: 28339

Ion Ratio Lower Upper

119 100

134 28.1 13.4 40.2

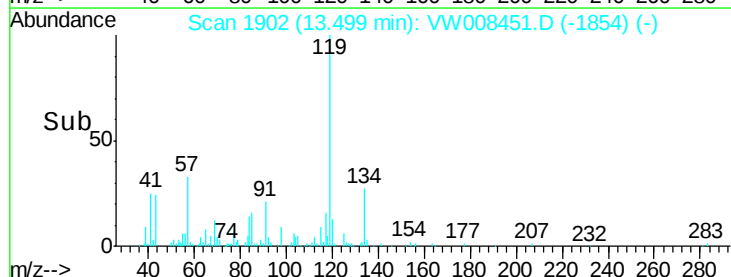
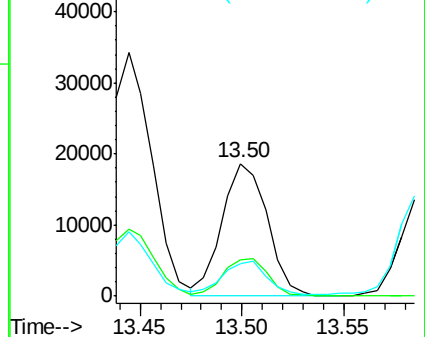
91 24.9 12.6 37.6

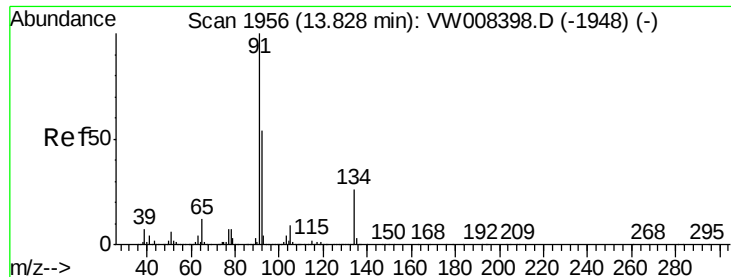


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

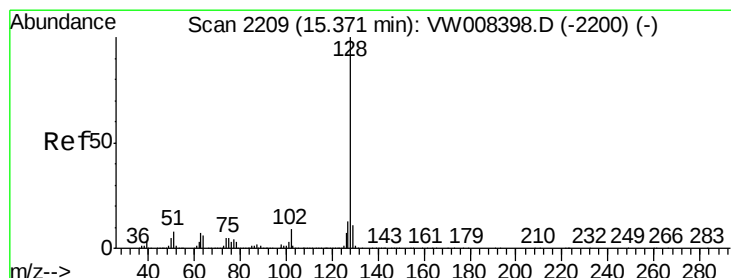
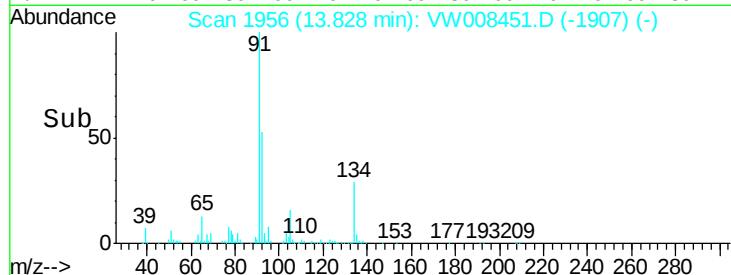
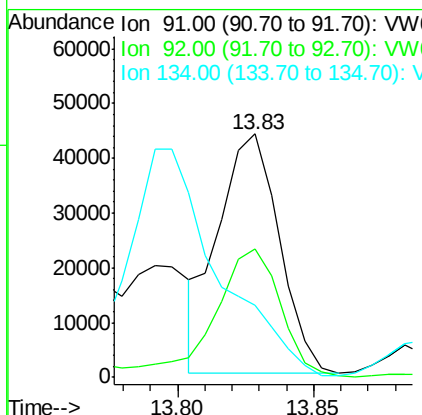
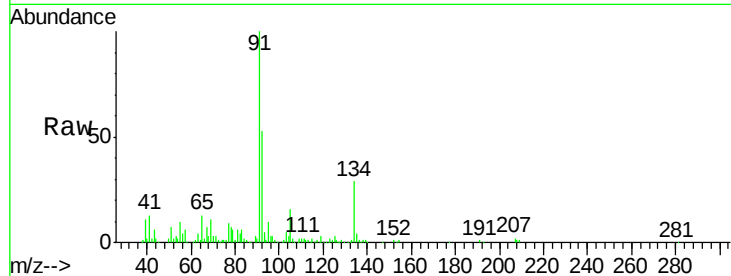




#89  
n-Butylbenzene  
Concen: 12.396 ug/l  
RT: 13.83 min Scan# 1956  
Delta R.T. 0.00 min  
Lab File: VW008451.D  
Acq: 29 Jan 2019 15:01

Instrument :  
MSVOA\_W  
ClientSampleId :  
HD-01-012819

Tot Ion: 91 Resp: 68034  
Ion Ratio Lower Upper  
91 100  
92 57.2 27.4 82.2  
134 0.0 13.0 39.0#



#95  
Naphthalene  
Concen: 20.624 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW008451.D  
Acq: 29 Jan 2019 15:01

Tgt Ion: 128 Resp: 60586  
Ion Ratio Lower Upper  
128 100  
127 11.4 10.6 15.8  
129 8.4 8.7 13.1#

