

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011519\  
 Data File : VW008296.D  
 Acq On : 15 Jan 2019 21:49  
 Operator : SY/VA  
 Sample : K1012-07  
 Misc : 4.62G/5ML/MSVOA W/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EO-01-011518-A

Quant Time: Jan 16 03:19:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 51704    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 86712    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 74046    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 26100    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 29406    | 50.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.20% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 27524    | 54.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.84% |          |
| 50) Toluene-d8              | 10.32 | 98   | 108948   | 51.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.68% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 31387    | 41.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.50%  |          |

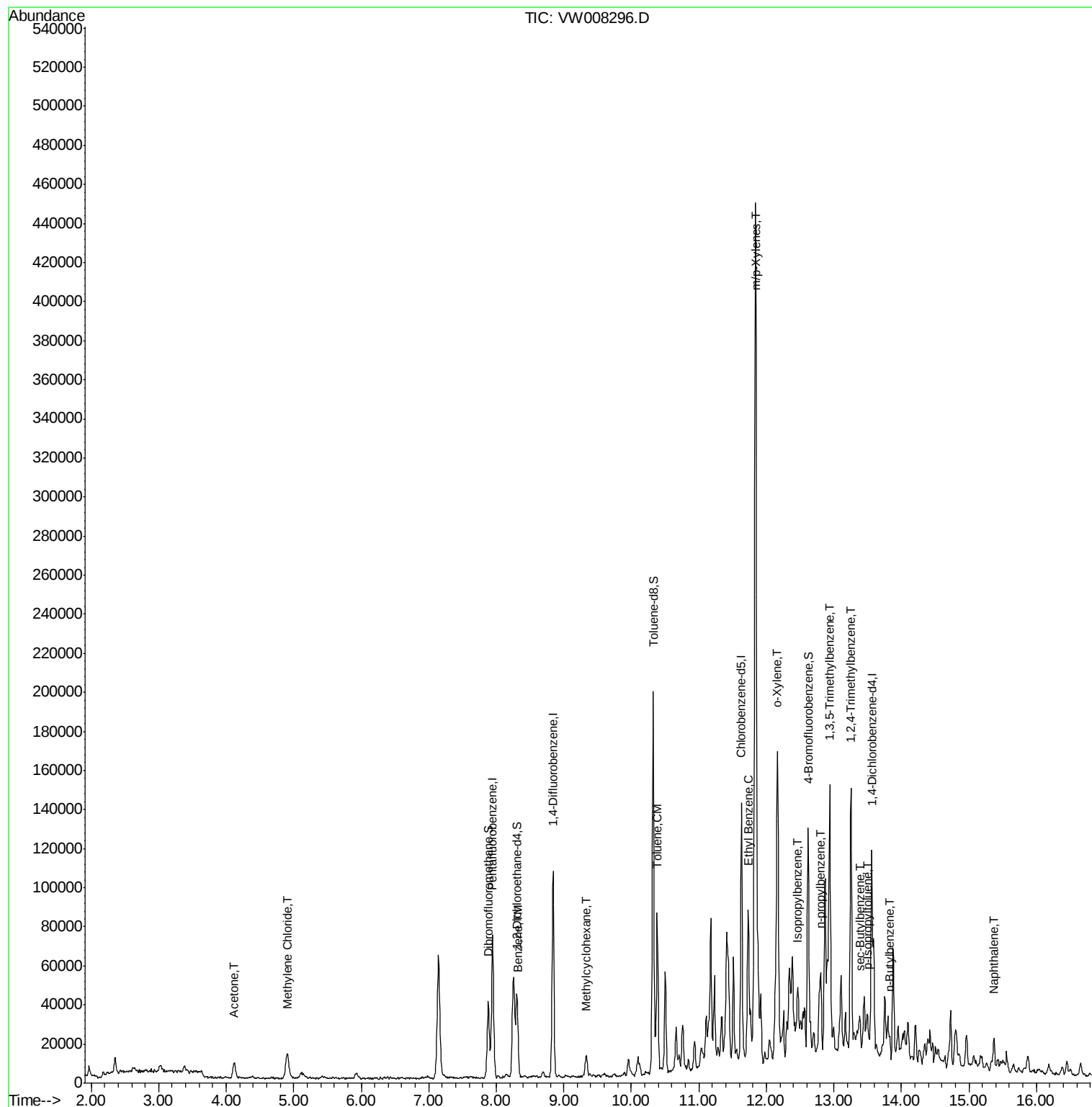
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                | 4.12  | 43   | 14296    | 126.408 | ug/l # | 85     |
| 20) Methylene Chloride     | 4.90  | 84   | 9083     | 12.245  | ug/l   | 91     |
| 39) Methylcyclohexane      | 9.34  | 83   | 4182     | 3.692   | ug/l   | 95     |
| 40) Benzene                | 8.32  | 78   | 5383     | 2.222   | ug/l   | 97     |
| 52) Toluene                | 10.39 | 92   | 35405    | 22.883  | ug/l   | 100    |
| 67) Ethyl Benzene          | 11.73 | 91   | 45905    | 15.993  | ug/l   | 96     |
| 68) m/p-Xylenes            | 11.83 | 106  | 87405    | 79.780  | ug/l   | 97     |
| 69) o-Xylene               | 12.17 | 106  | 39924    | 39.352  | ug/l   | 97     |
| 73) Isopropylbenzene       | 12.46 | 105  | 17333    | 8.459   | ug/l   | 98     |
| 78) n-propylbenzene        | 12.81 | 91   | 30512    | 12.153  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.94 | 105  | 29418    | 17.471  | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.26 | 105  | 72425    | 41.703  | ug/l   | 98     |
| 85) sec-Butylbenzene       | 13.38 | 105  | 8639     | 3.959   | ug/l # | 70     |
| 86) p-Isopropyltoluene     | 13.50 | 119  | 5990     | 3.179   | ug/l   | 94     |
| 89) n-Butylbenzene         | 13.83 | 91   | 4992m    | 2.705   | ug/l   |        |
| 95) Naphthalene            | 15.37 | 128  | 14918    | 15.590  | ug/l   | 96     |

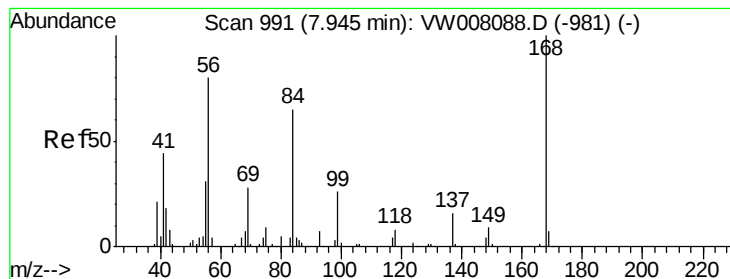
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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EO-01-011518-A

Quant Time: Jan 16 03:19:33 2019  
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Quant Title : SW846 8260  
QLast Update : Wed Jan 09 04:40:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

Instrument :

MSVOA\_W

ClientSampleId :

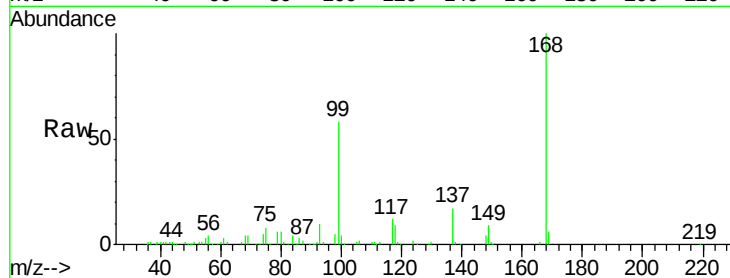
EO-01-011518-A

Tot Ion:168 Resp: 51704

Ion Ratio Lower Upper

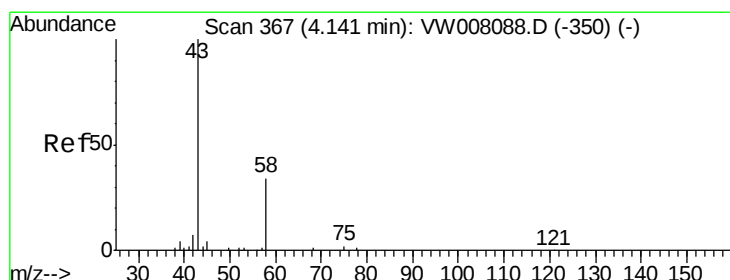
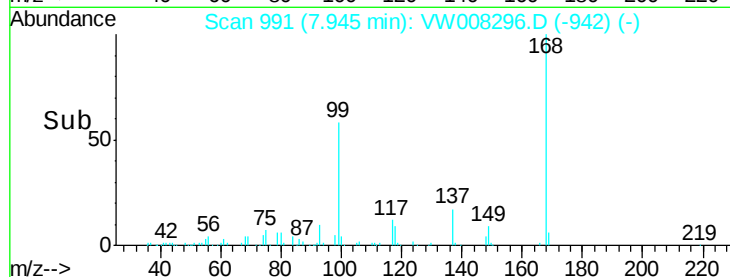
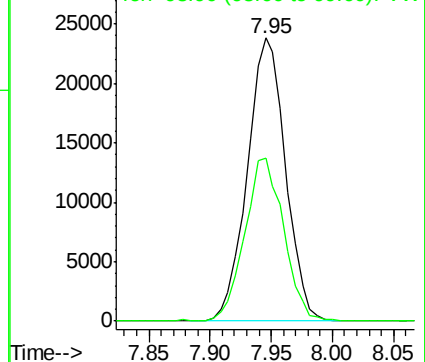
168 100

99 57.6 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 126.408 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.02 min

Lab File: VW008296.D

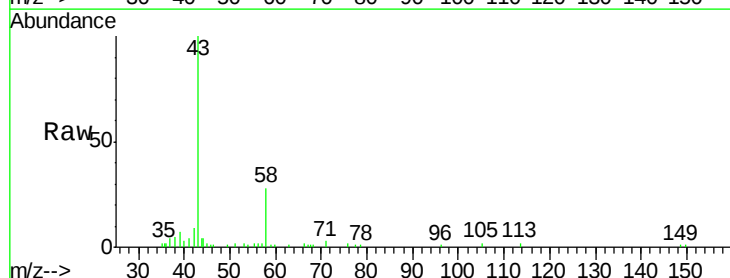
Acq: 15 Jan 2019 21:49

Tgt Ion: 43 Resp: 14296

Ion Ratio Lower Upper

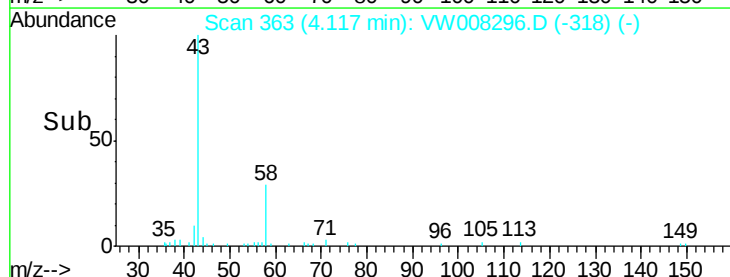
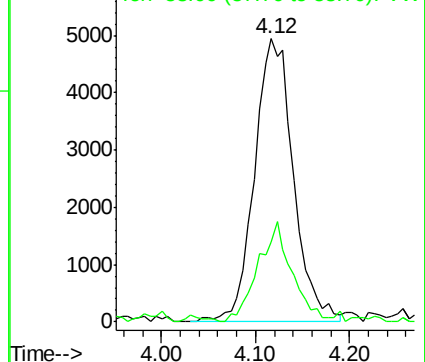
43 100

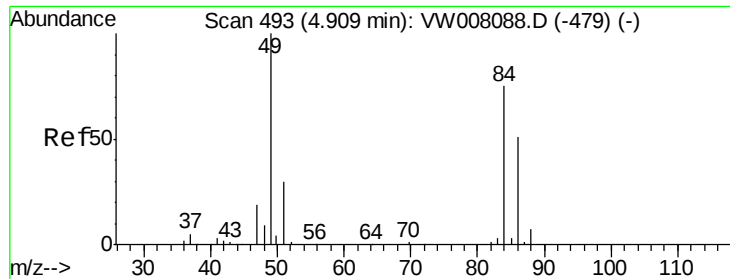
58 25.8 27.5 41.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

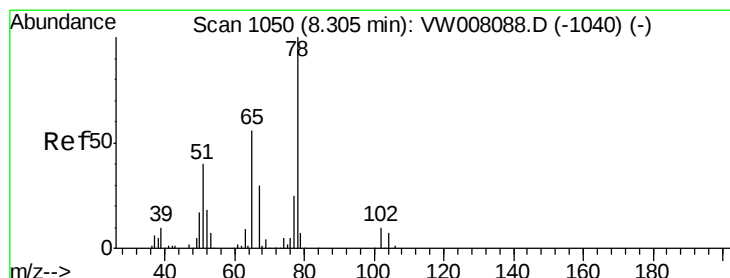
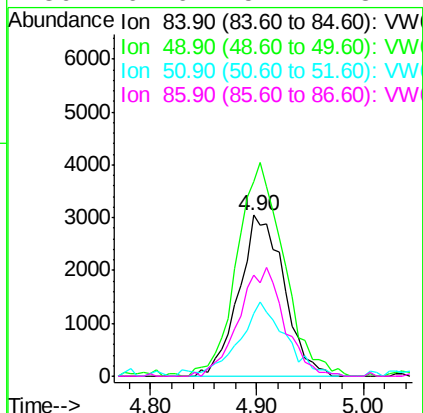
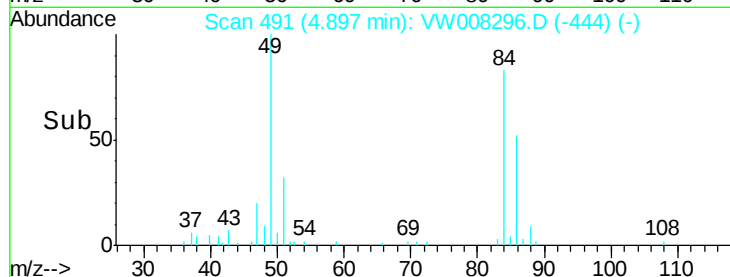
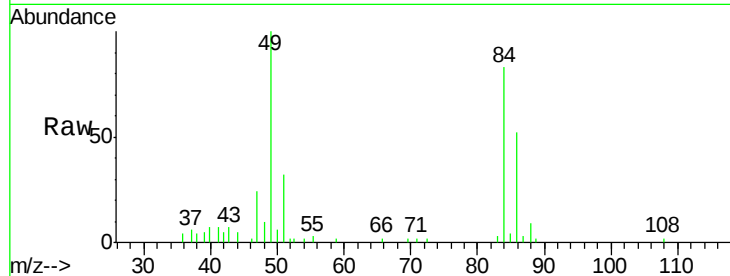




#20  
Methvlene Chloride  
Concen: 12.245 ug/l  
RT: 4.90 min Scan# 491  
Delta R.T. -0.01 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

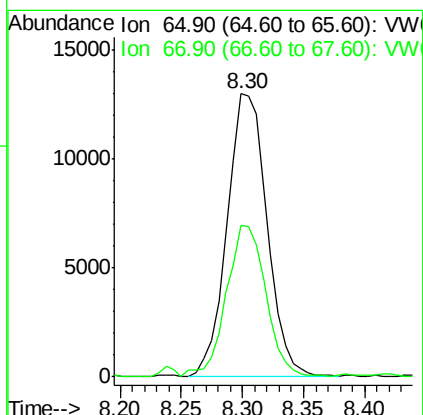
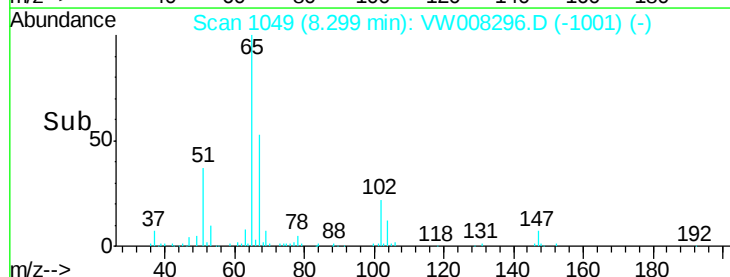
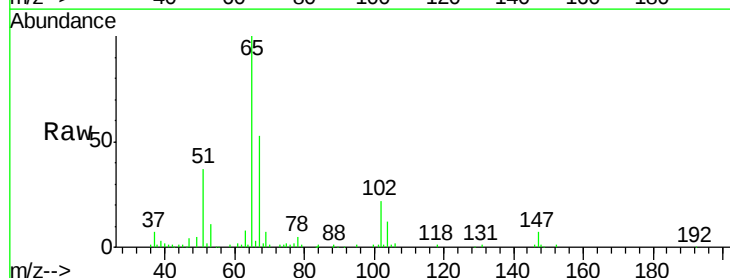
Instrument :  
MSVOA\_W  
ClientSampleId :  
EO-01-011518-A

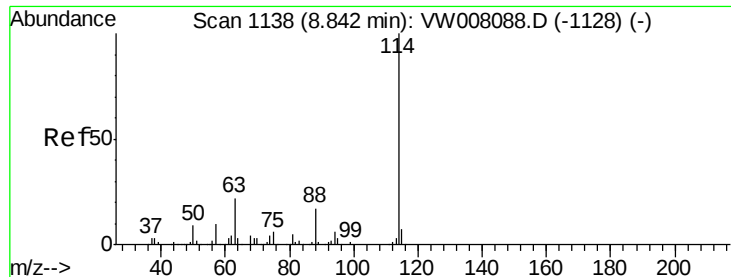
Tot Ion: 84 Resp: 9083  
Ion Ratio Lower Upper  
84 100  
49 121.2 107.1 160.7  
51 37.3 32.4 48.6  
86 62.6 54.2 81.4



#33  
1,2-Dichloroethane-d4  
Concen: 50.603 ug/l  
RT: 8.30 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

Tgt Ion: 65 Resp: 29406  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

Instrument :

MSVOA\_W

ClientSampleId :

EO-01-011518-A

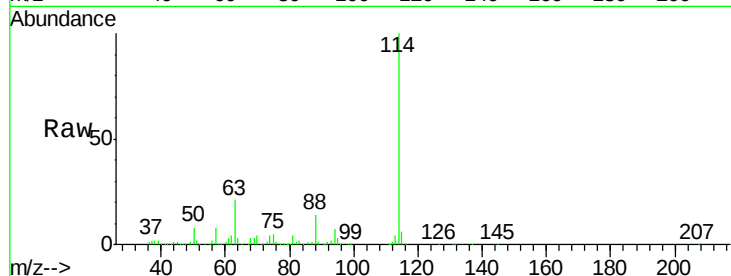
Tot Ion:114 Resp: 86712

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.4

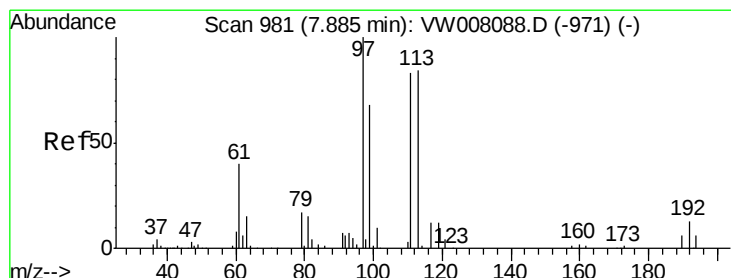
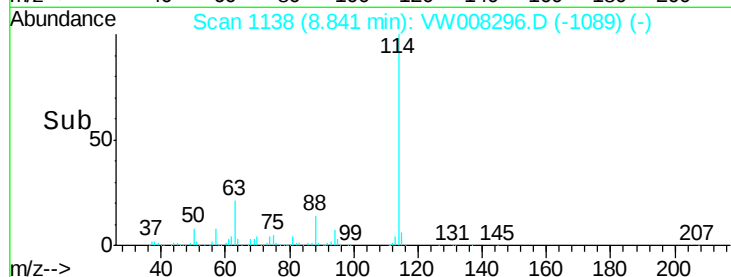
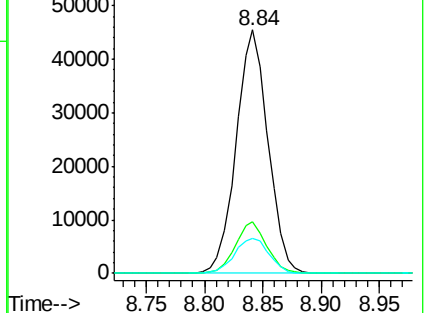
88 14.5 0.0 33.4



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: 54.423 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

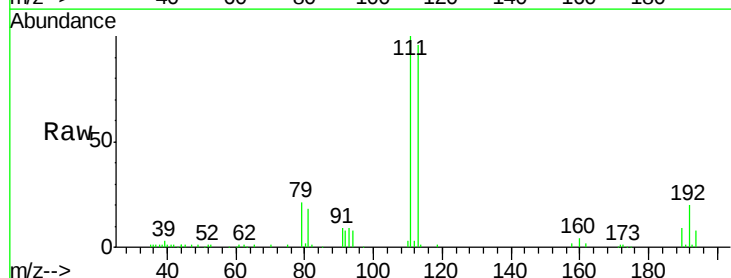
Tgt Ion:113 Resp: 27524

Ion Ratio Lower Upper

113 100

111 103.8 81.8 122.8

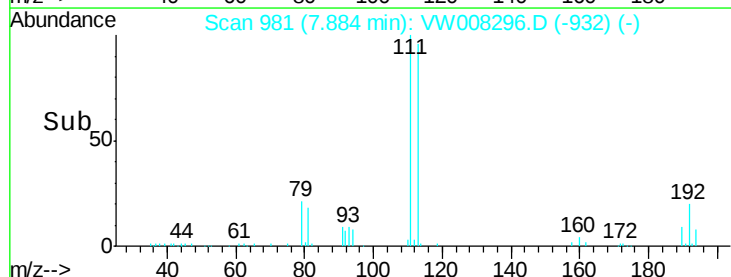
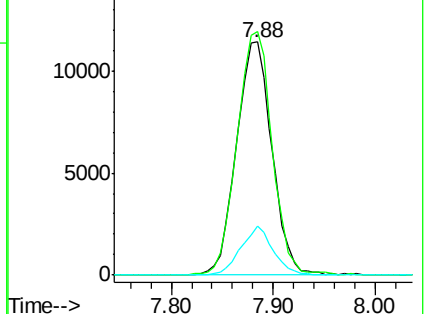
192 19.1 12.8 19.2

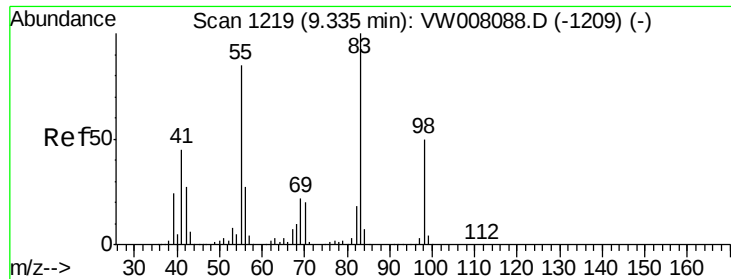


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

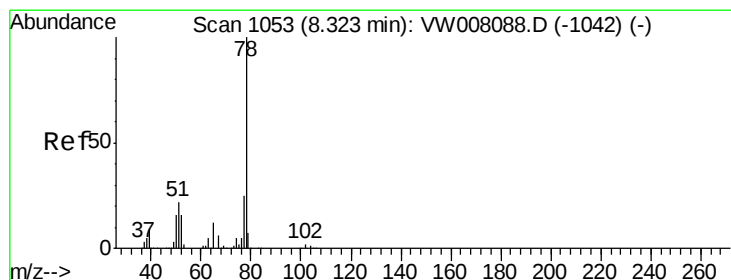
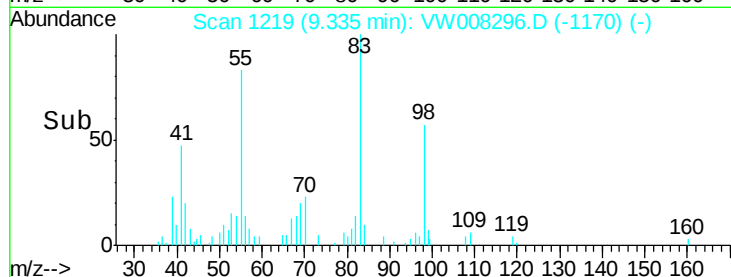
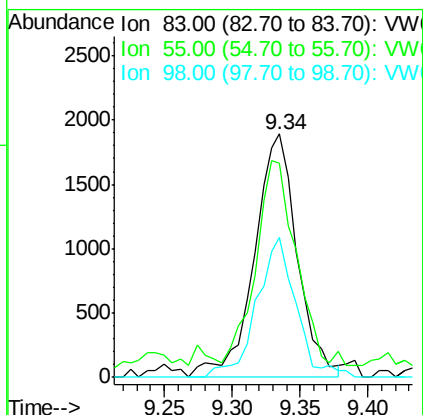
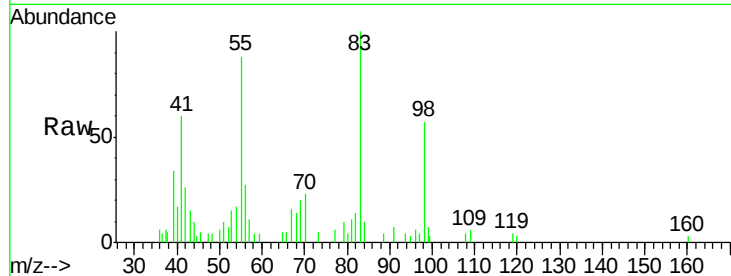




#39  
Methvlcvclohexane  
Concen: 3.692 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. -0.00 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

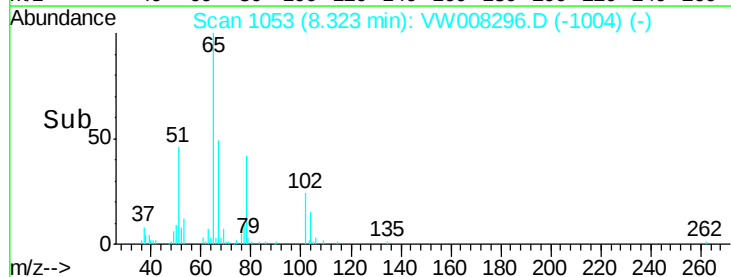
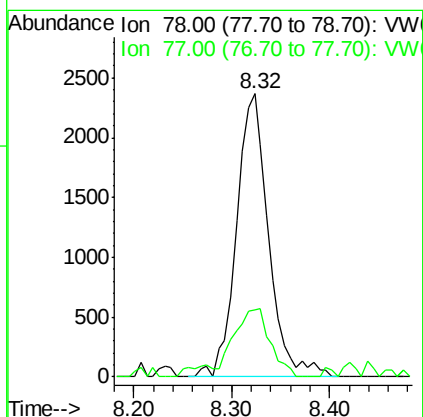
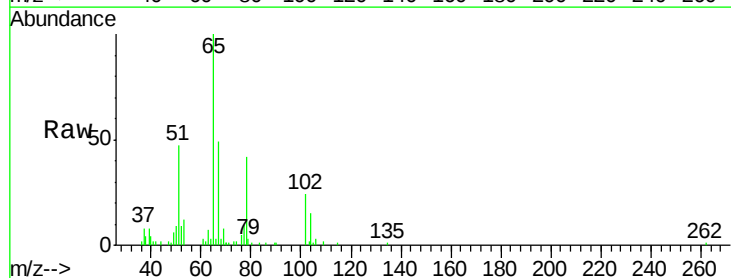
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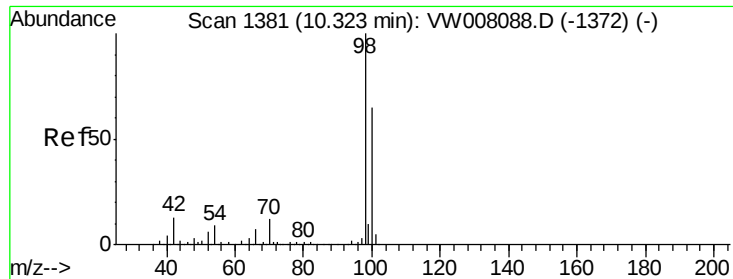
Tot Ion: 83 Resp: 4182  
Ion Ratio Lower Upper  
83 100  
55 83.5 67.8 101.6  
98 57.2 40.2 60.4



#40  
Benzene  
Concen: 2.222 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. -0.00 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

Tgt Ion: 78 Resp: 5383  
Ion Ratio Lower Upper  
78 100  
77 23.7 20.2 30.4

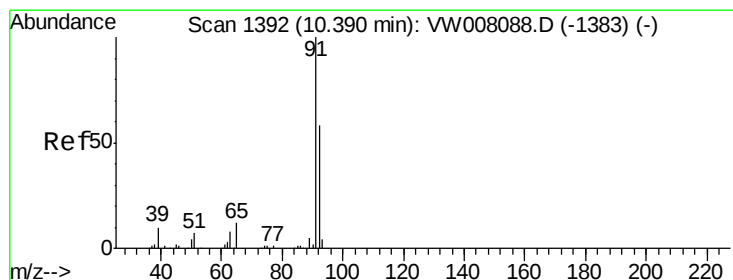
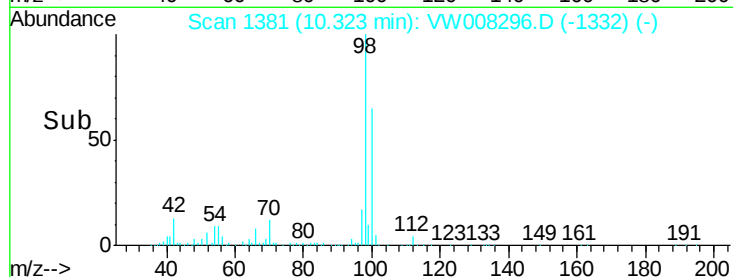
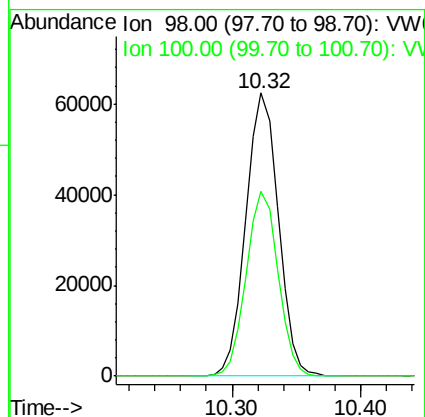
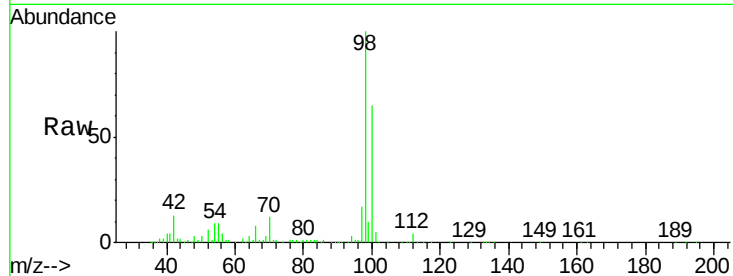




#50  
Toluene-d8  
Concen: 51.335 ug/l  
RT: 10.32 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

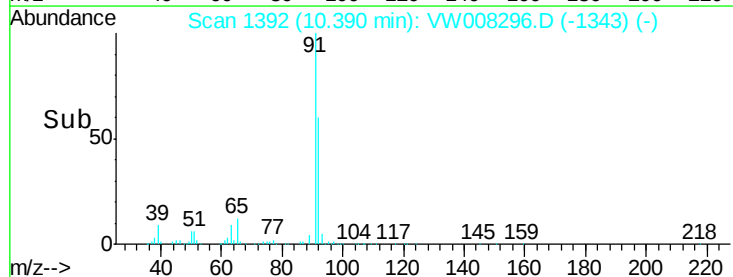
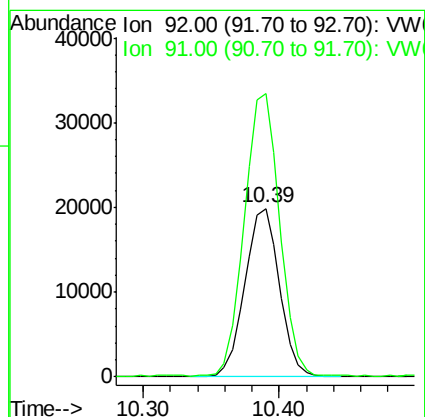
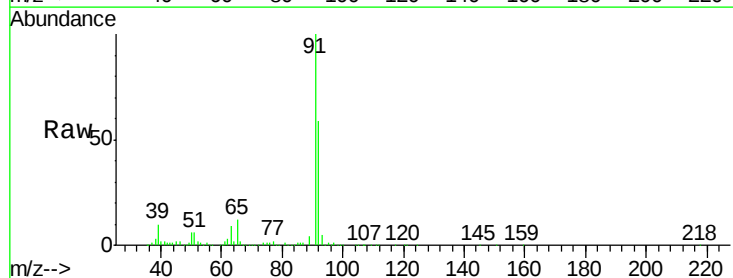
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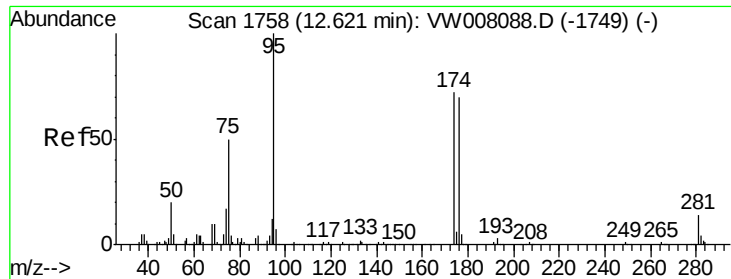
Tot Ion: 98 Resp: 108948  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.7 77.5



#52  
Toluene  
Concen: 22.883 ug/l  
RT: 10.39 min Scan# 1392  
Delta R.T. -0.00 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

Tgt Ion: 92 Resp: 35405  
Ion Ratio Lower Upper  
92 100  
91 171.3 137.0 205.4

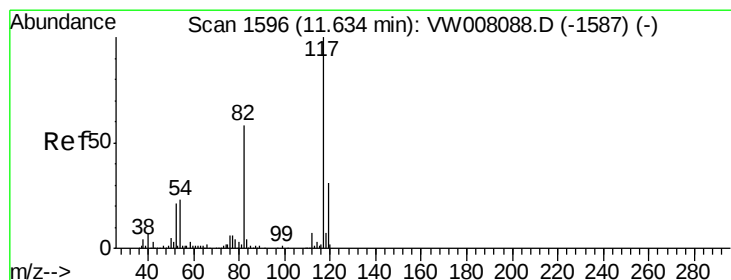
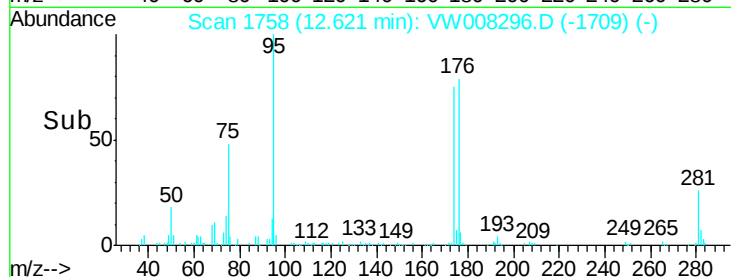
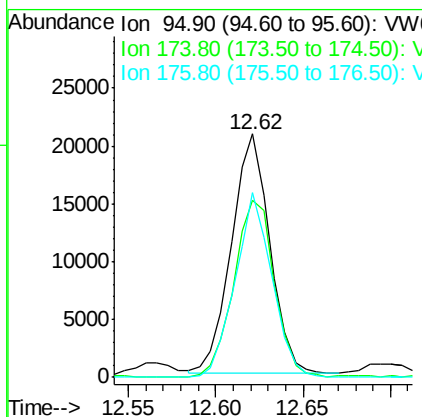
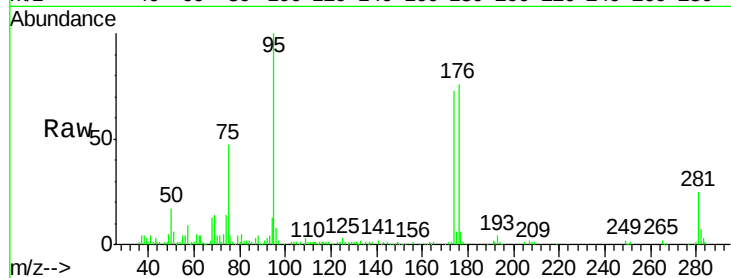




#62  
4-Bromofluorobenzene  
Concen: 41.254 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

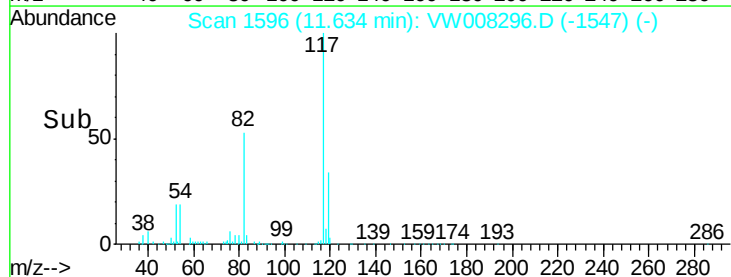
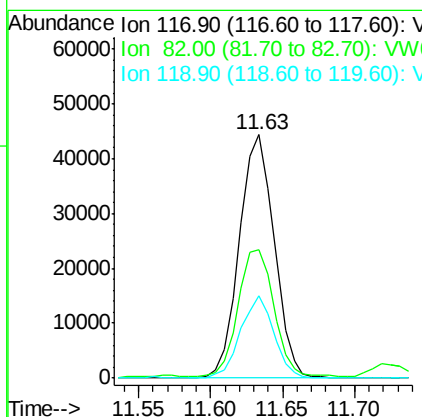
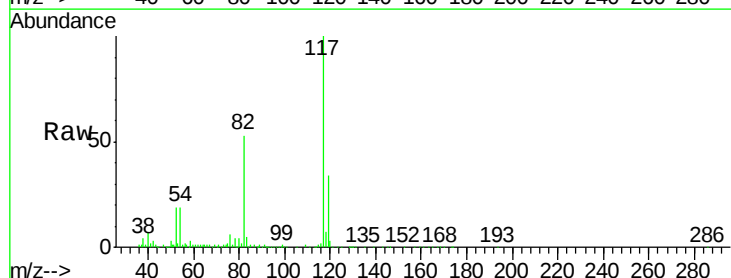
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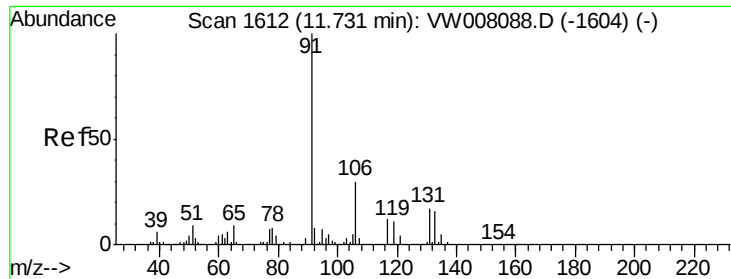
Tot Ion: 95 Resp: 31387  
Ion Ratio Lower Upper  
95 100  
174 78.9 0.0 143.0  
176 74.5 0.0 140.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

Tgt Ion: 117 Resp: 74046  
Ion Ratio Lower Upper  
117 100  
82 52.4 46.4 69.6  
119 33.6 24.7 37.1





#67

Ethyl Benzene

Concen: 15.993 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

Instrument :

MSVOA\_W

ClientSampleId :

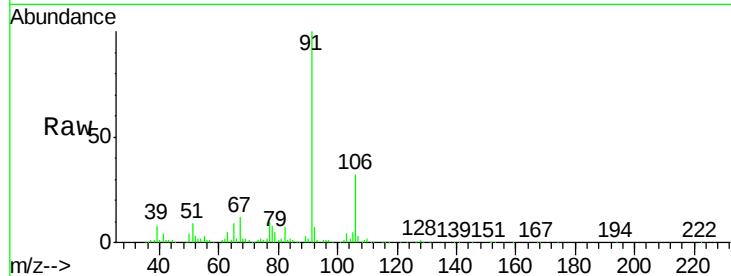
EO-01-011518-A

Tot Ion: 91 Resp: 45905

Ion Ratio Lower Upper

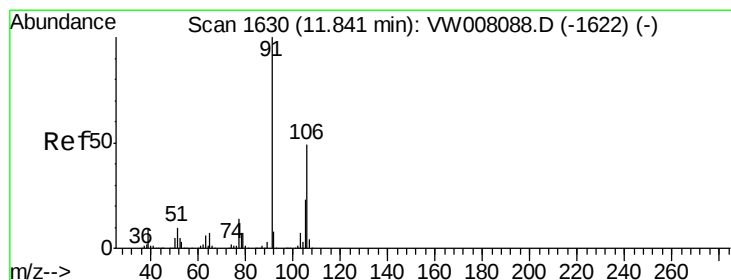
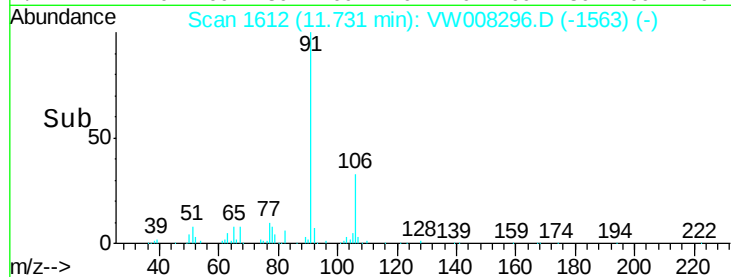
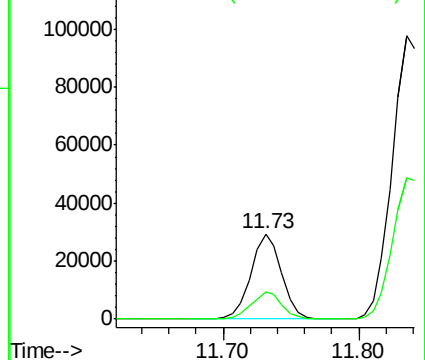
91 100

106 32.5 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 79.780 ug/l

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW008296.D

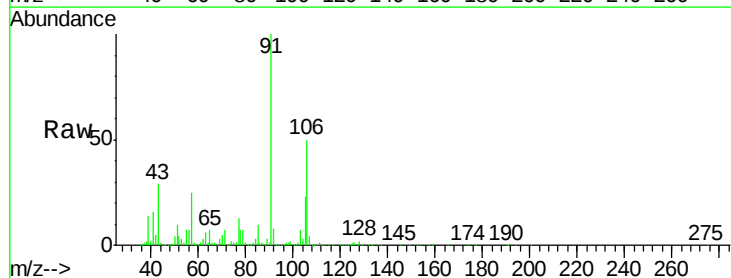
Acq: 15 Jan 2019 21:49

Tgt Ion: 106 Resp: 87405

Ion Ratio Lower Upper

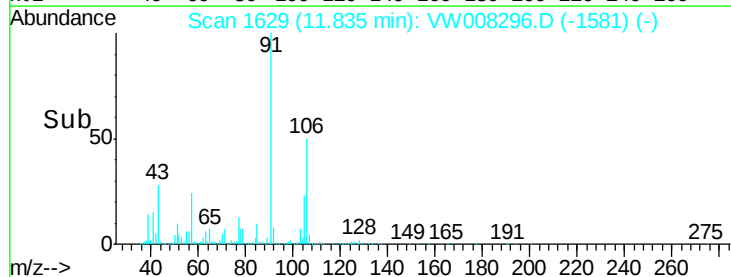
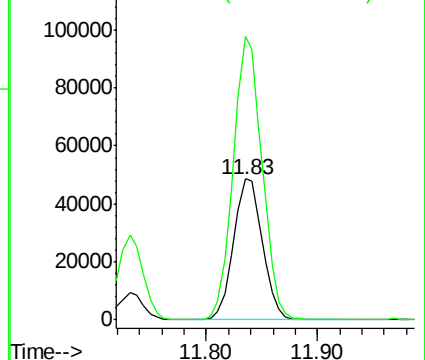
106 100

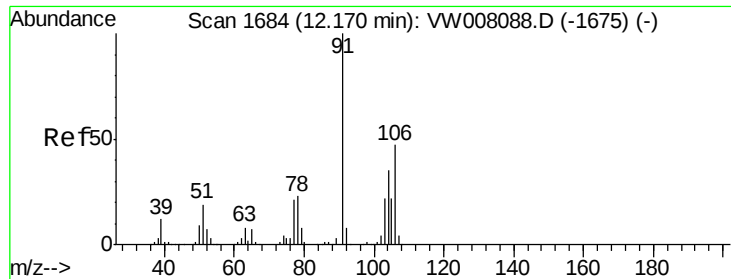
91 199.1 162.4 243.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

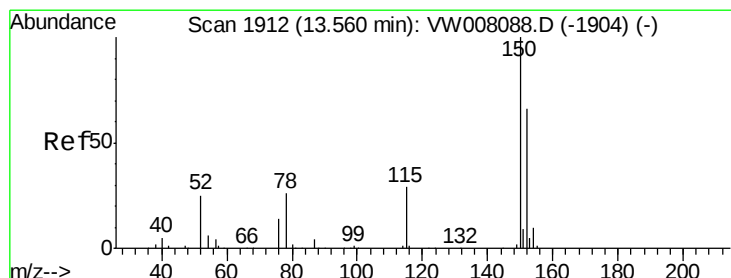
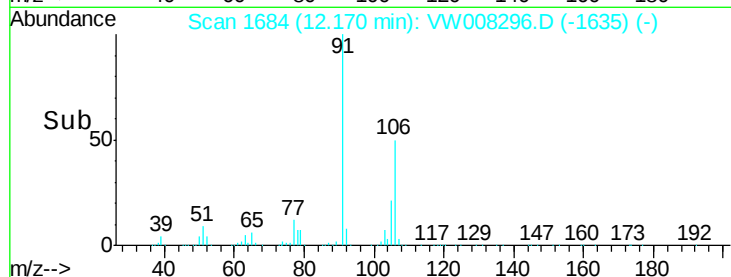
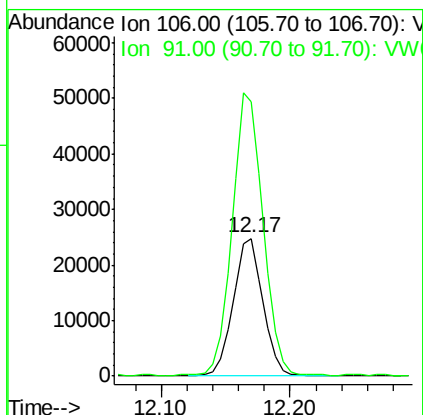
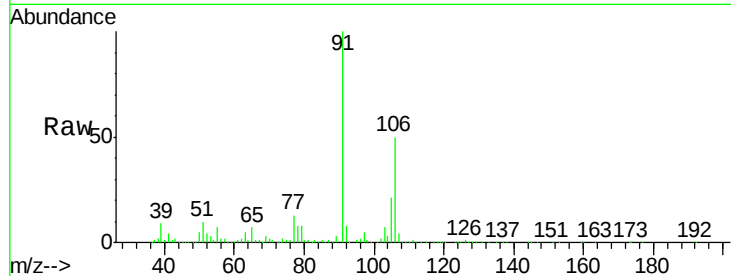




#69  
o-Xylene  
Concen: 39.352 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. -0.00 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

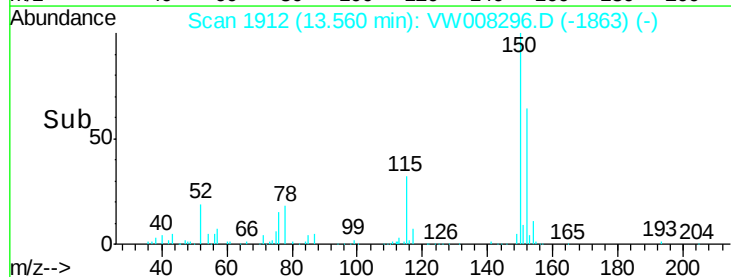
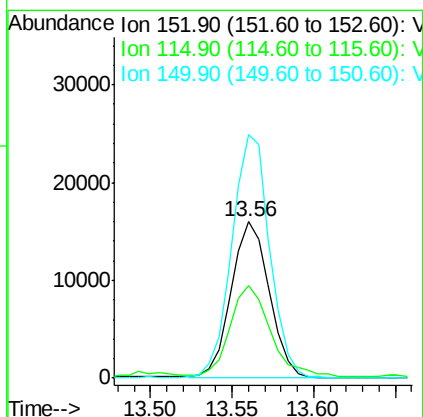
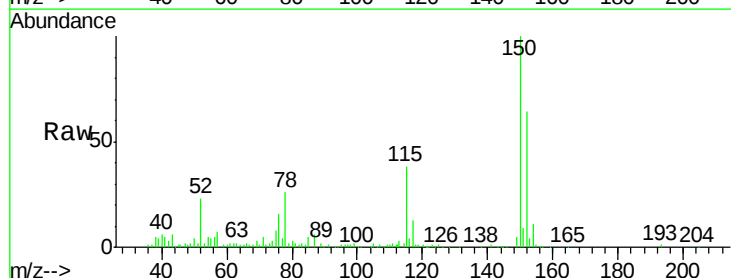
Instrument :  
MSVOA\_W  
ClientSampleId :  
EO-01-011518-A

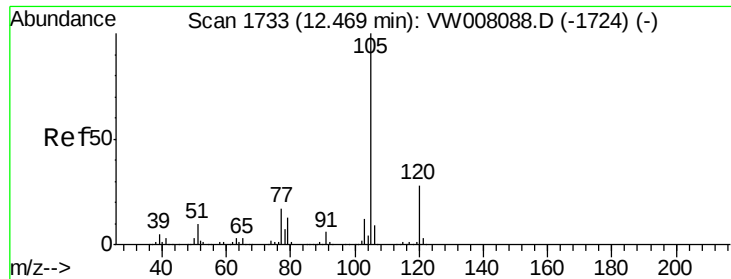
Tot Ion:106 Resp: 39924  
Ion Ratio Lower Upper  
106 100  
91 210.8 107.8 323.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW008296.D  
Acq: 15 Jan 2019 21:49

Tgt Ion:152 Resp: 26100  
Ion Ratio Lower Upper  
152 100  
115 61.3 30.8 92.4  
150 154.7 0.0 350.2





#73

Isopropylbenzene

Concen: 8.459 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

Instrument :

MSVOA\_W

ClientSampleId :

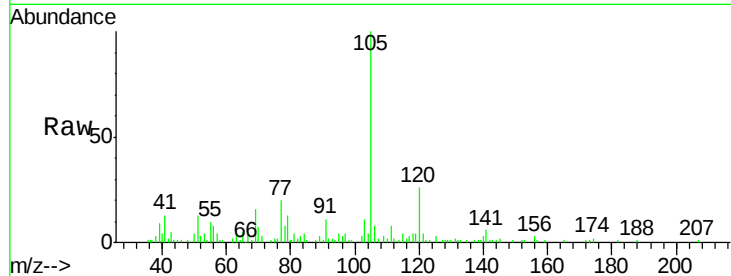
EO-01-011518-A

Tot Ion:105 Resp: 17333

Ion Ratio Lower Upper

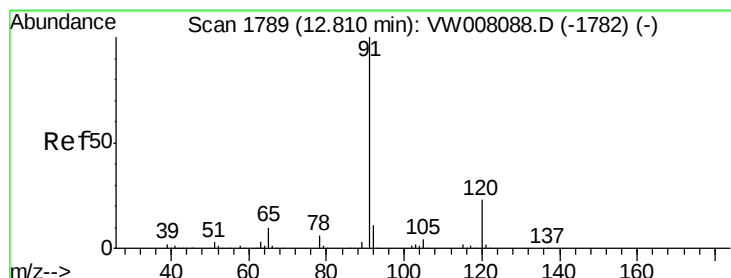
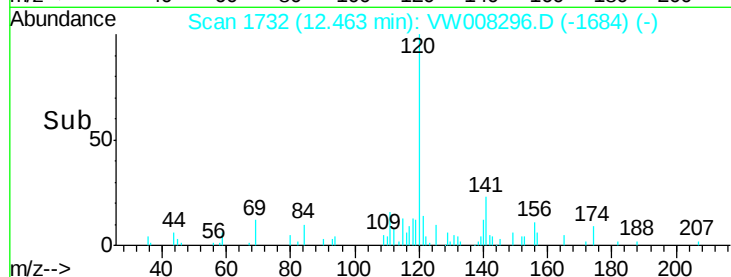
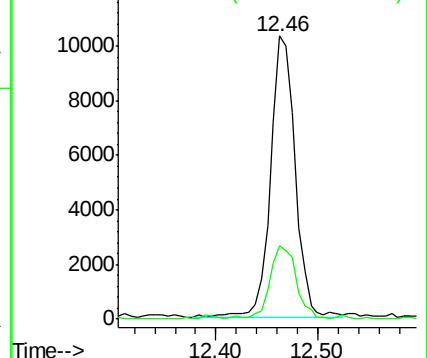
105 100

120 28.3 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 12.153 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW008296.D

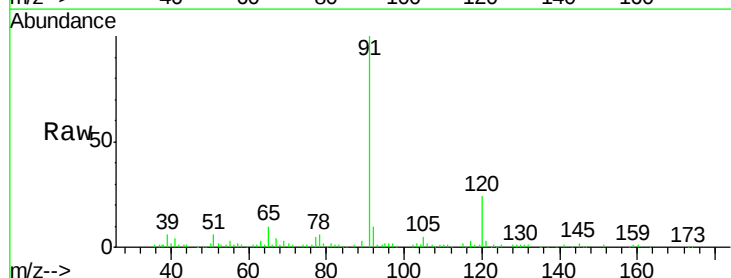
Acq: 15 Jan 2019 21:49

Tgt Ion: 91 Resp: 30512

Ion Ratio Lower Upper

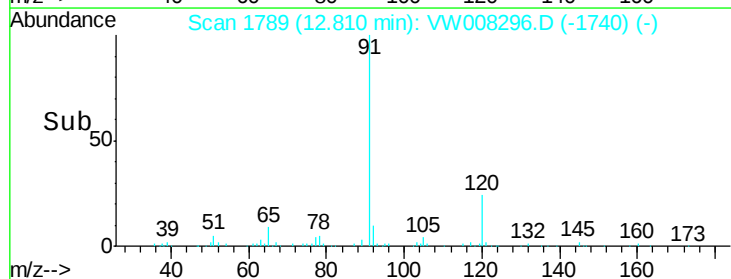
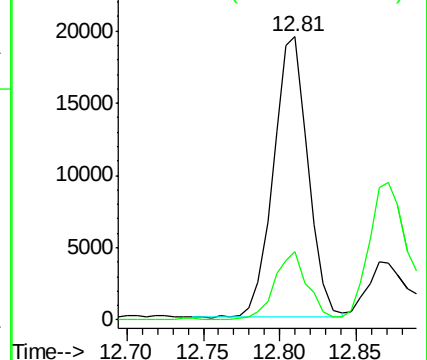
91 100

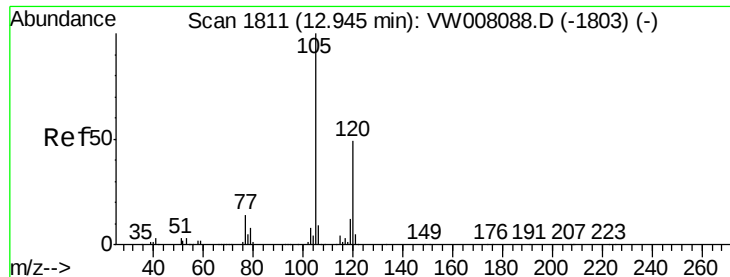
120 23.4 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

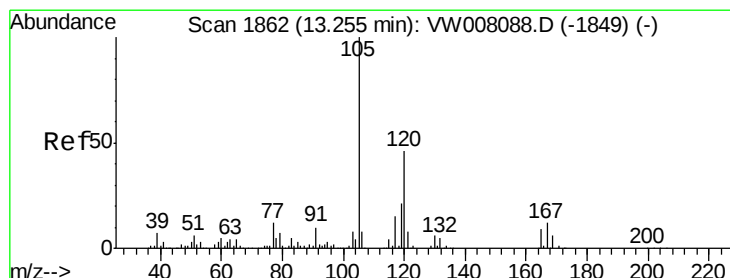
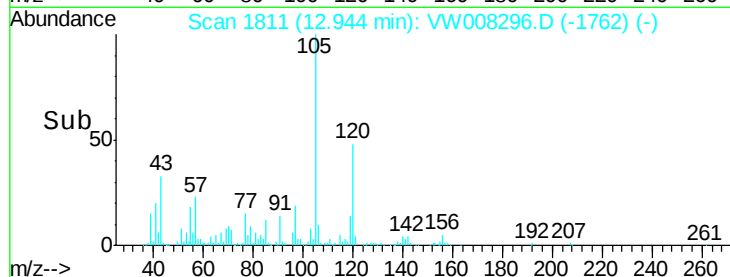
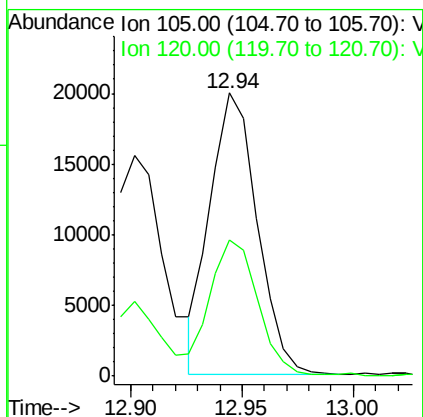
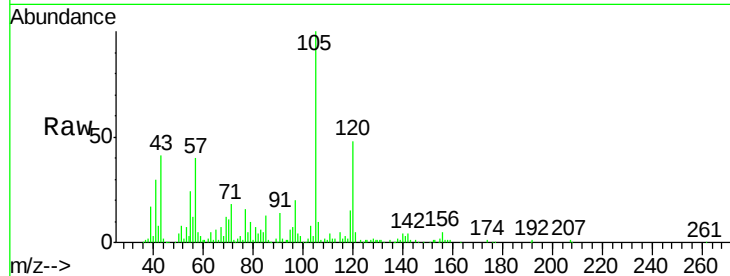




#80  
 1,3,5-Trimethylbenzene  
 Concen: 17.471 ug/l  
 RT: 12.94 min Scan# 1811  
 Delta R.T. -0.00 min  
 Lab File: VW008296.D  
 Acq: 15 Jan 2019 21:49

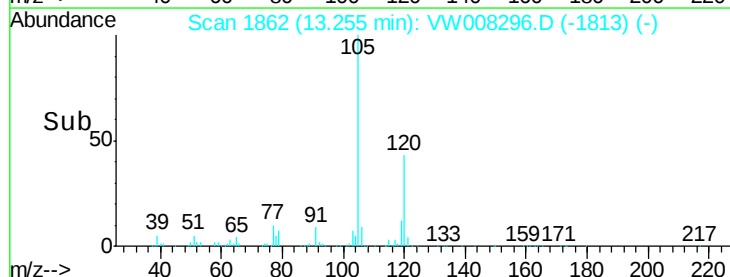
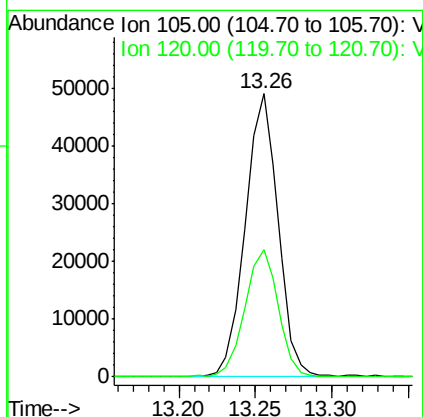
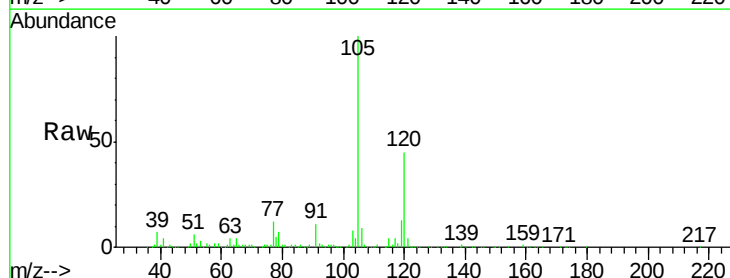
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EO-01-011518-A

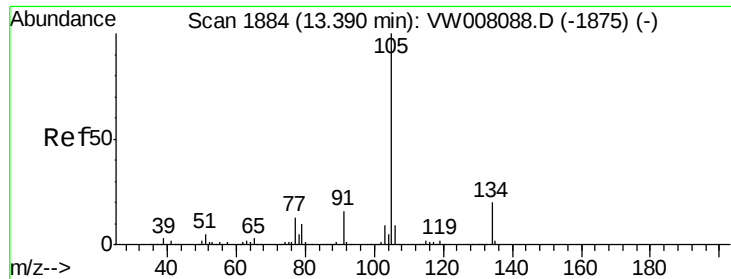
Tot Ion:105 Resp: 29418  
 Ion Ratio Lower Upper  
 105 100  
 120 50.1 24.7 74.1



#84  
 1,2,4-Trimethylbenzene  
 Concen: 41.703 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. -0.00 min  
 Lab File: VW008296.D  
 Acq: 15 Jan 2019 21:49

Tgt Ion:105 Resp: 72425  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 22.7 68.1





#85

sec-Butylbenzene

Concen: 3.959 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.01 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

Instrument :

MSVOA\_W

ClientSampleId :

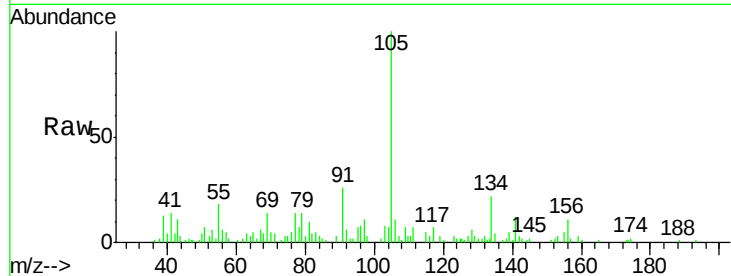
EO-01-011518-A

Tot Ion:105 Resp: 8639

Ion Ratio Lower Upper

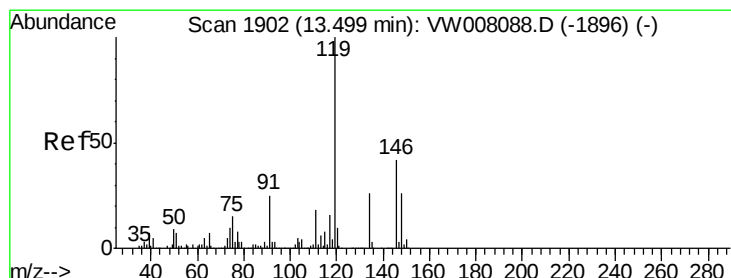
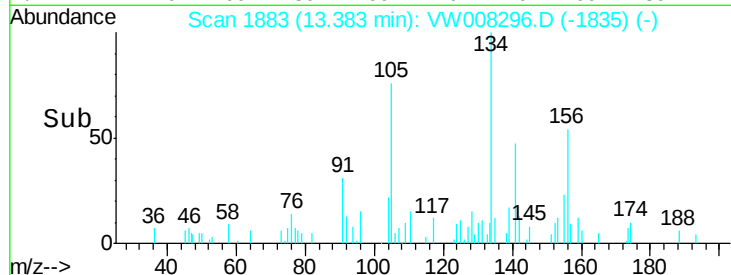
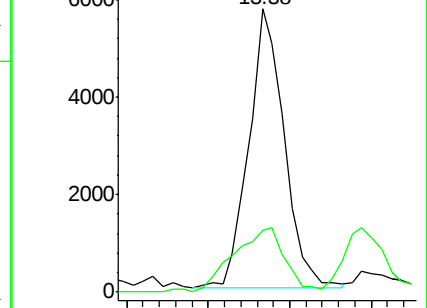
105 100

134 33.9 10.1 30.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 3.179 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

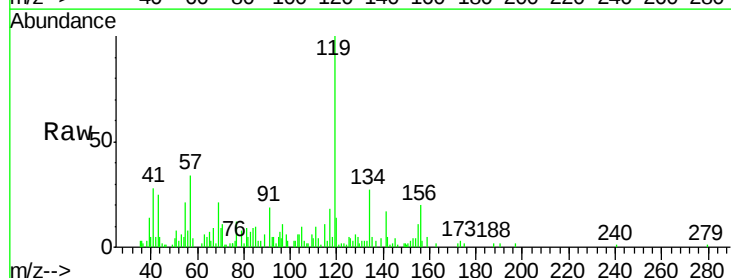
Tgt Ion:119 Resp: 5990

Ion Ratio Lower Upper

119 100

134 31.1 13.3 39.8

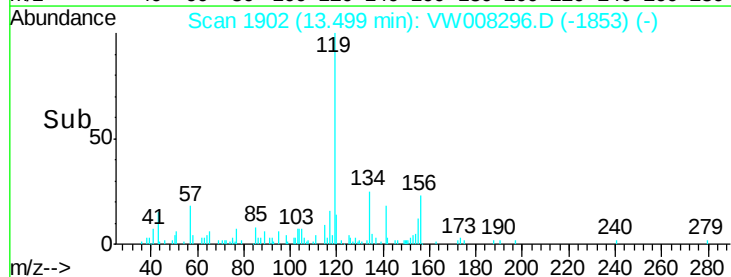
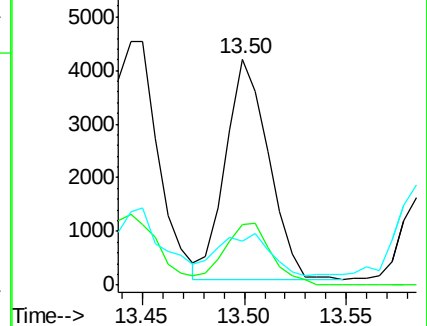
91 23.1 12.3 36.9

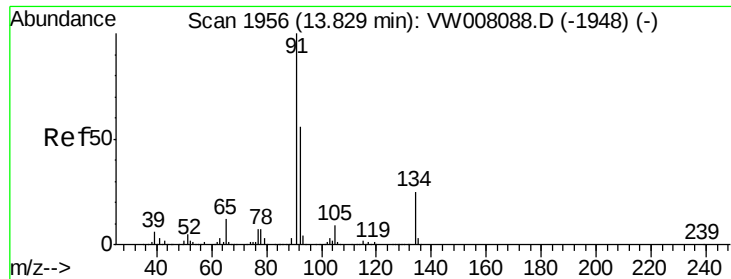


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 2.705 ug/l m

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

Instrument :

MSVOA\_W

ClientSampleId :

EO-01-011518-A

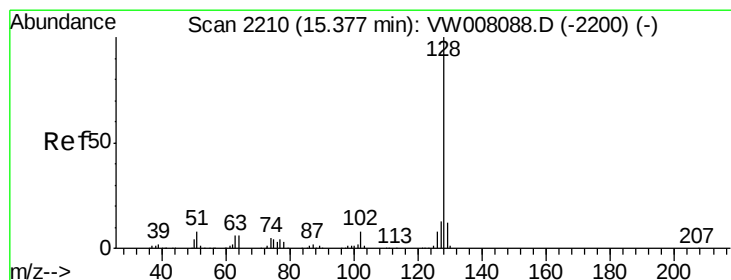
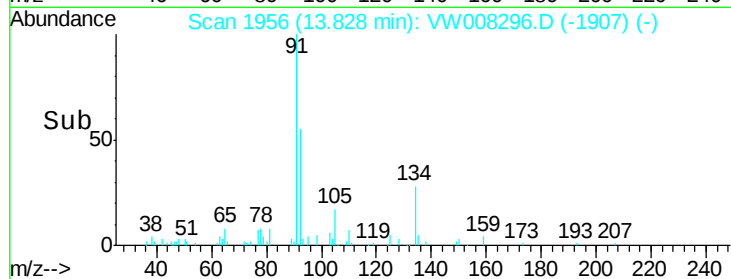
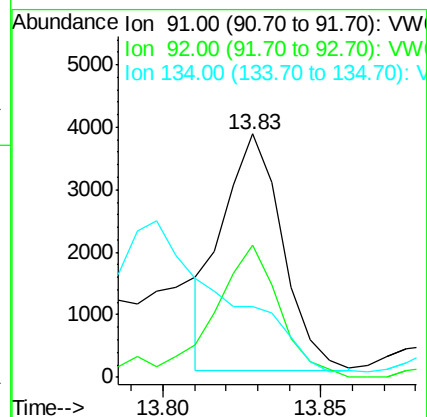
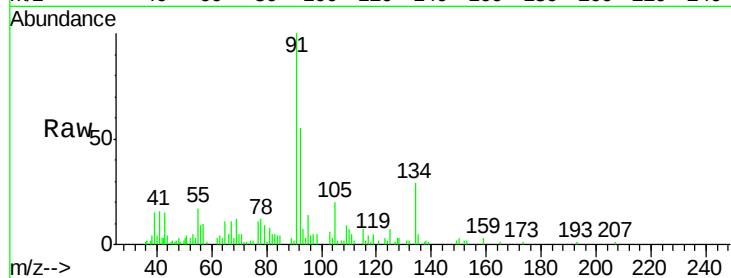
Tot Ion: 91 Resp: 4992

Ion Ratio Lower Upper

91 100

92 65.9 27.4 82.2

134 0.0 12.6 37.8#



#95

Naphthalene

Concen: 15.590 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW008296.D

Acq: 15 Jan 2019 21:49

Tgt Ion: 128 Resp: 14918

Ion Ratio Lower Upper

128 100

127 15.3 11.0 16.4

129 10.1 9.0 13.6

