

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080819\  
 Data File : VX011393.D  
 Acq On : 08 Aug 2019 17:07  
 Operator : JC/SP  
 Sample : K4251-01 20X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-MW-J-0819

Quant Time: Aug 09 04:58:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 157346   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 256644   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 246727   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 121869   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 90452    | 57.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.16% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 84389    | 50.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.72% |          |
| 50) Toluene-d8              | 8.71  | 98   | 319147   | 50.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.92% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 115139   | 50.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.98% |          |

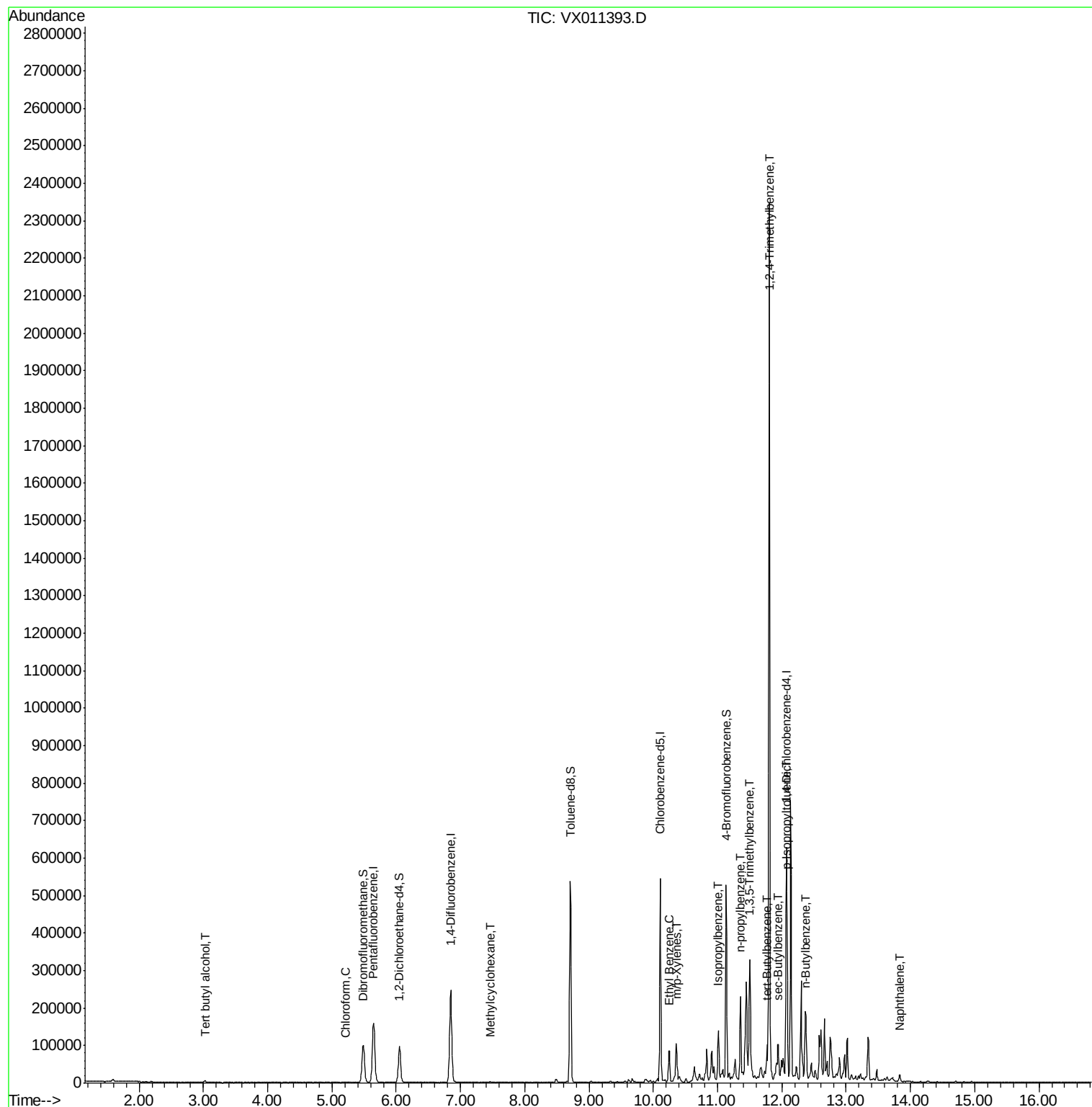
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol     | 3.03  | 59   | 5412     | 17.149  | ug/l # | 93     |
| 30) Chloroform             | 5.20  | 83   | 1137     | 0.423   | ug/l   | 84     |
| 39) Methylcyclohexane      | 7.46  | 83   | 1116     | 0.420   | ug/l # | 71     |
| 67) Ethyl Benzene          | 10.25 | 91   | 48352    | 5.458   | ug/l   | 99     |
| 68) m/p-Xylenes            | 10.35 | 106  | 21366    | 6.235   | ug/l   | 97     |
| 73) Isopropylbenzene       | 11.01 | 105  | 64949    | 7.792   | ug/l   | 100    |
| 78) n-propylbenzene        | 11.35 | 91   | 134804   | 14.543  | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 11.50 | 105  | 135737   | 19.454  | ug/l   | 99     |
| 83) tert-Butylbenzene      | 11.77 | 119  | 7128     | 1.042   | ug/l   | 89     |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105  | 991030   | 142.661 | ug/l   | 100    |
| 85) sec-Butylbenzene       | 11.94 | 105  | 36509    | 4.441   | ug/l   | 100    |
| 86) p-Isopropyltoluene     | 12.06 | 119  | 34465    | 4.557   | ug/l   | 98     |
| 89) n-Butylbenzene         | 12.38 | 91   | 31375    | 4.815   | ug/l # | 46     |
| 95) Naphthalene            | 13.83 | 128  | 11665    | 1.466   | ug/l   | 95     |

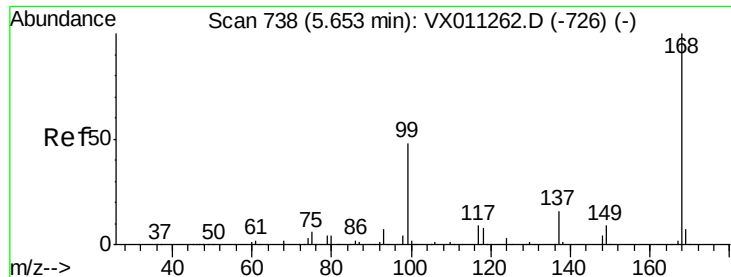
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX080819\  
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Sample : K4251-01 20X  
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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-J-0819

Quant Time: Aug 09 04:58:29 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.01 min

Lab File: VX011393.D

Acq: 08 Aug 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

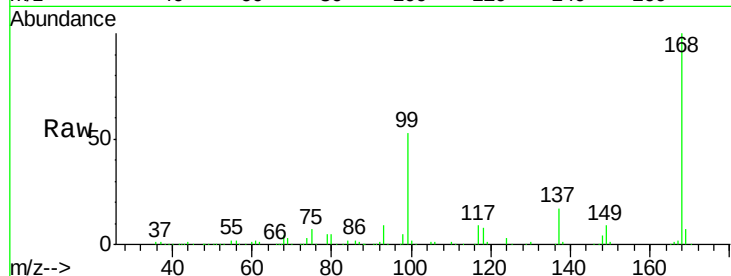
EP1-MW-J-0819

Tot Ion:168 Resp: 157346

Ion Ratio Lower Upper

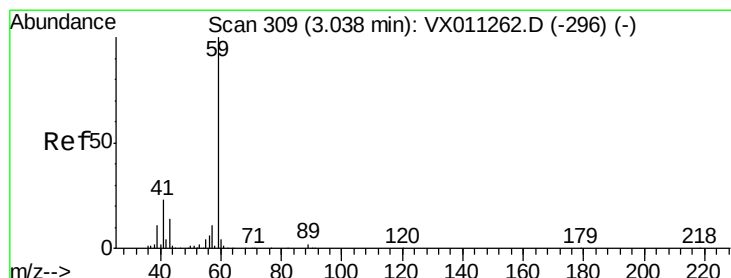
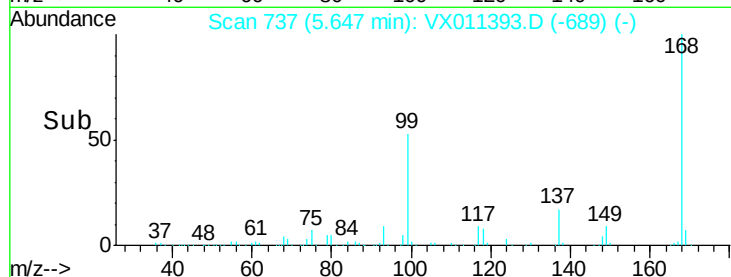
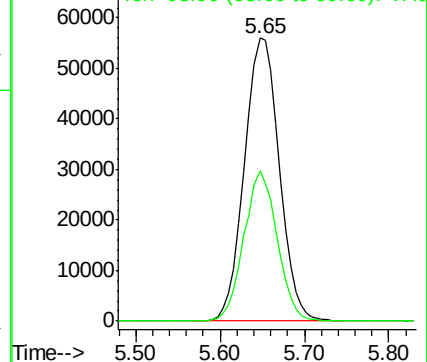
168 100

99 53.2 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 17.149 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.01 min

Lab File: VX011393.D

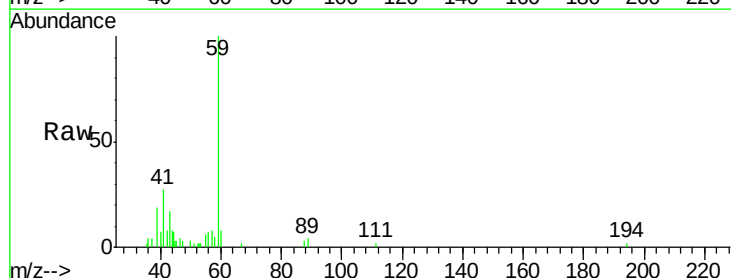
Acq: 08 Aug 2019 17:07

Tgt Ion: 59 Resp: 5412

Ion Ratio Lower Upper

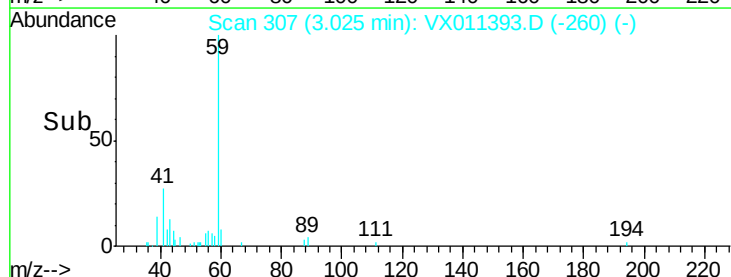
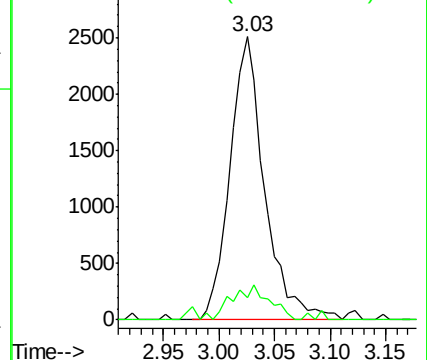
59 100

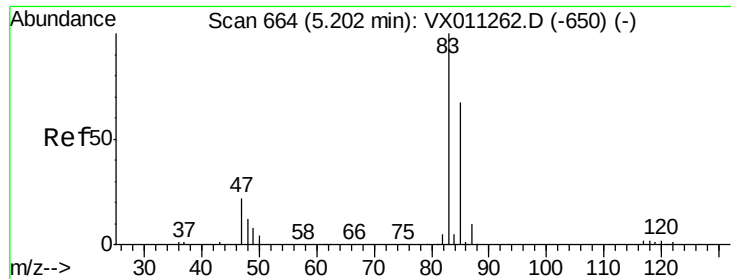
57 13.2 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

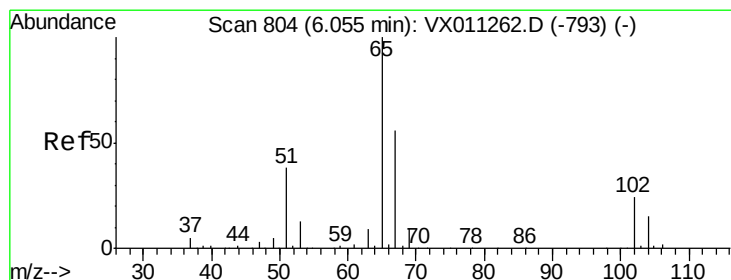
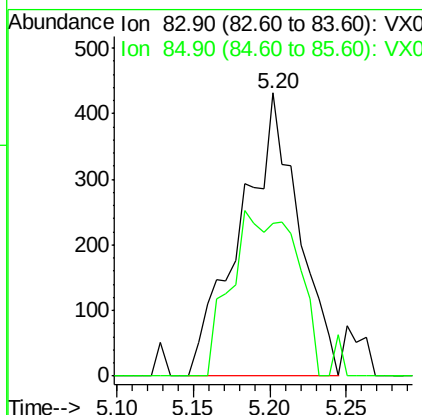
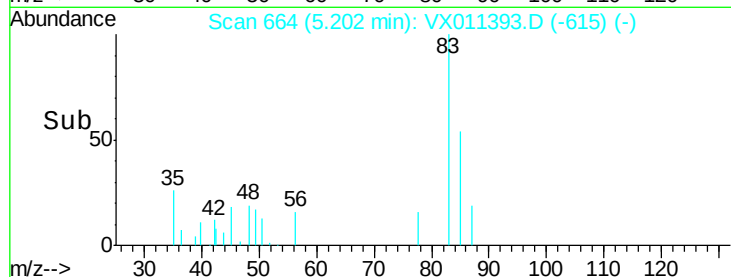
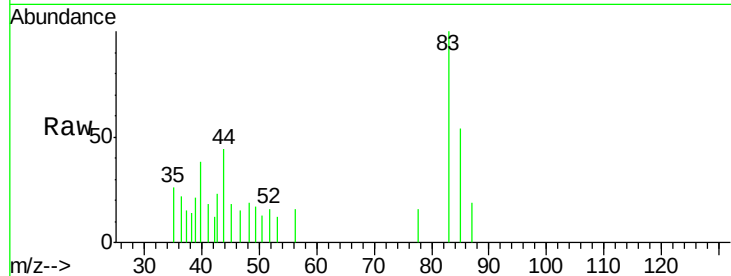




#30  
Chloroform  
Concen: 0.423 ug/l  
RT: 5.20 min Scan# 664  
Delta R.T. -0.00 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

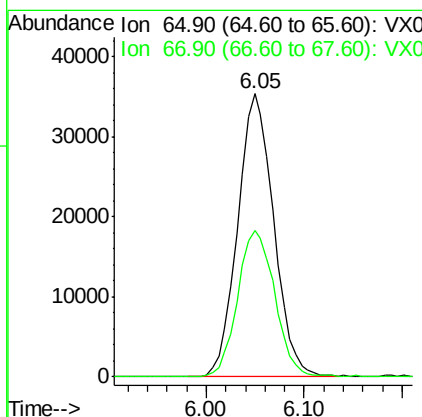
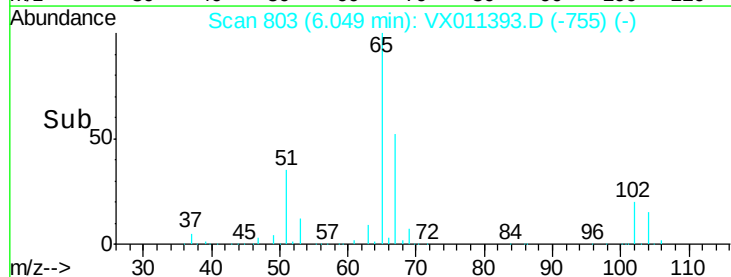
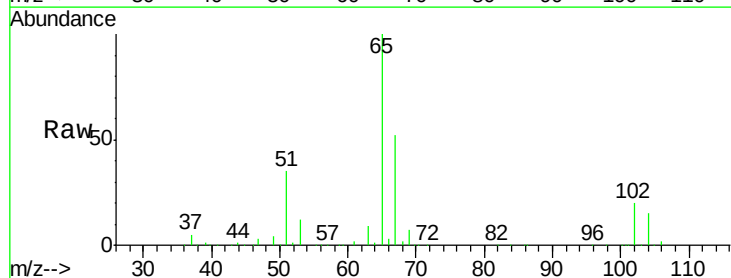
Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-J-0819

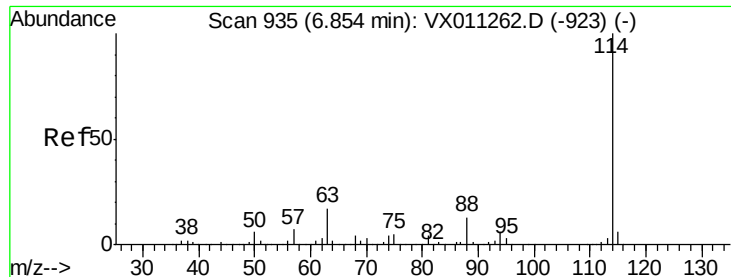
Tot Ion: 83 Resp: 1137  
Ion Ratio Lower Upper  
83 100  
85 54.2 53.4 80.0



#33  
1,2-Dichloroethane-d4  
Concen: 57.083 ug/l  
RT: 6.05 min Scan# 803  
Delta R.T. -0.01 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

Tgt Ion: 65 Resp: 90452  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 110.6

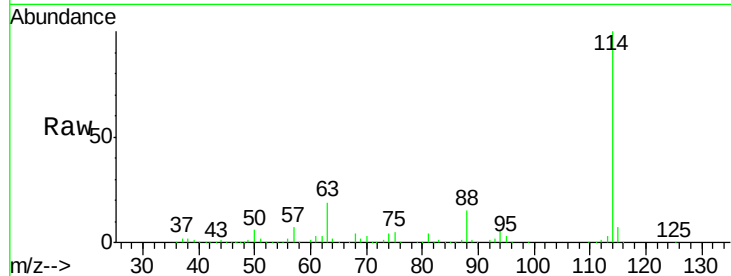




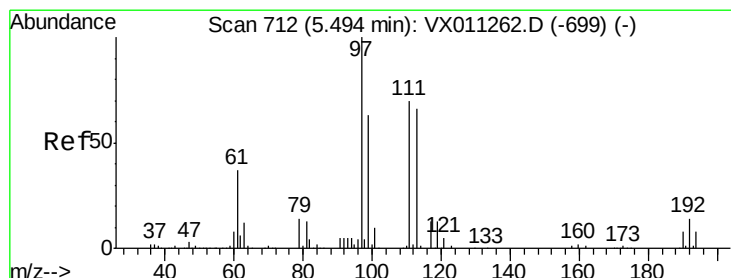
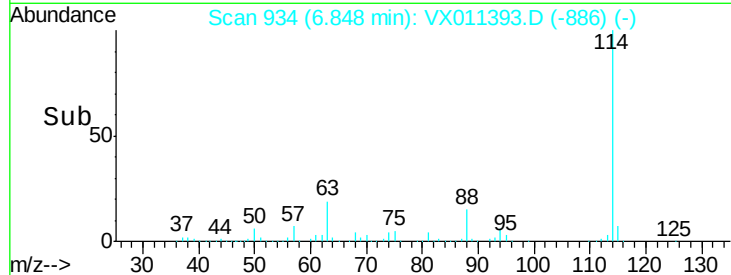
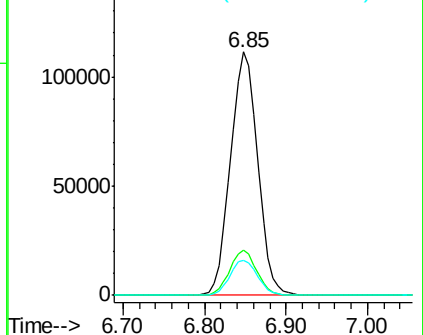
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 934  
 Delta R.T. -0.01 min  
 Lab File: VX011393.D  
 Acq: 08 Aug 2019 17:07

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-MW-J-0819

Tot Ion:114 Resp: 256644  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 34.0  
 88 14.6 0.0 26.4

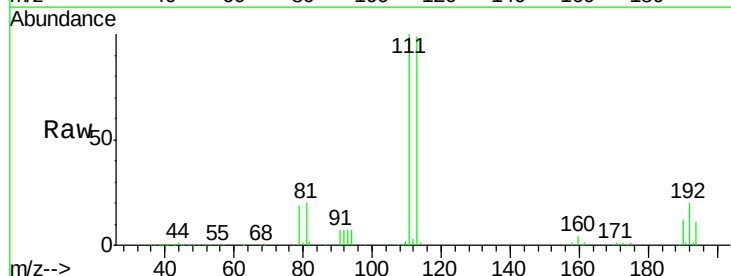


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

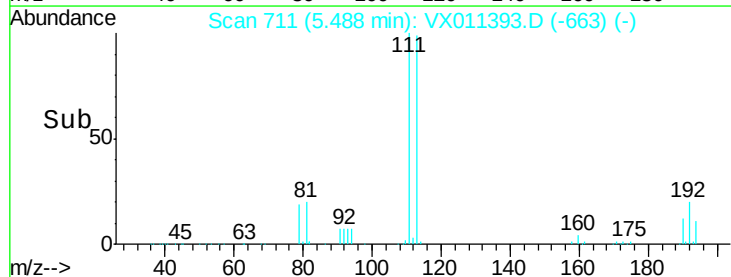
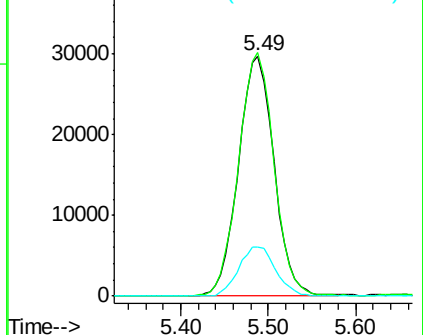


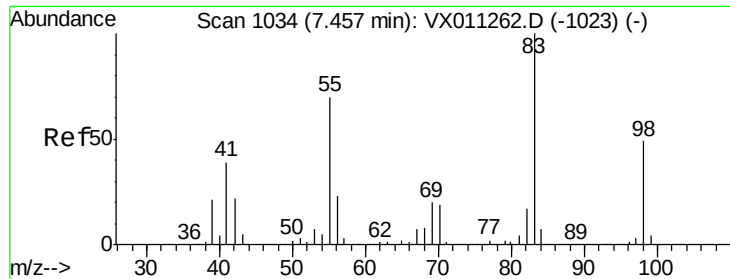
#35  
 Dibromofluoromethane  
 Concen: 50.364 ug/l  
 RT: 5.49 min Scan# 711  
 Delta R.T. -0.01 min  
 Lab File: VX011393.D  
 Acq: 08 Aug 2019 17:07

Tgt Ion:113 Resp: 84389  
 Ion Ratio Lower Upper  
 113 100  
 111 101.1 81.9 122.9  
 192 21.3 17.8 26.8



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

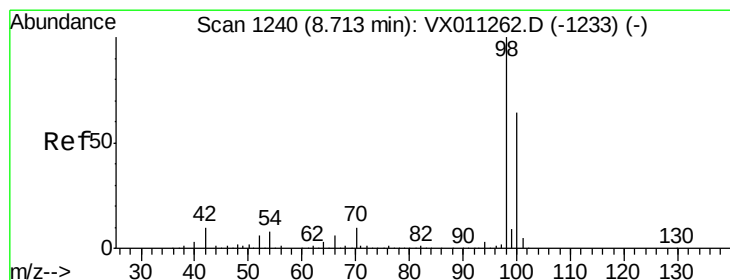
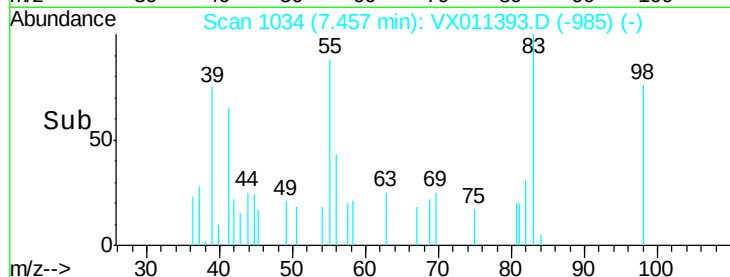
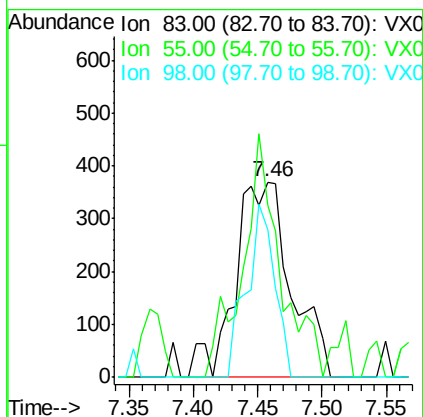
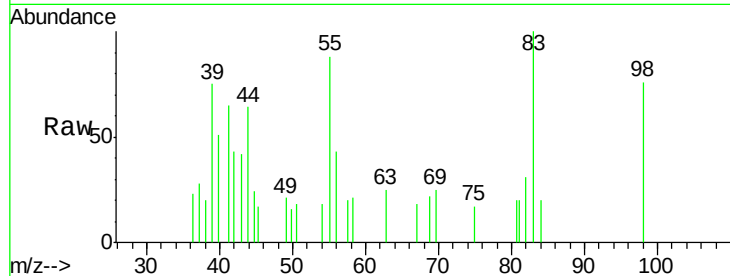




#39  
Methylvlcyclohexane  
Concen: 0.420 ug/l  
RT: 7.46 min Scan# 1034  
Delta R.T. -0.00 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

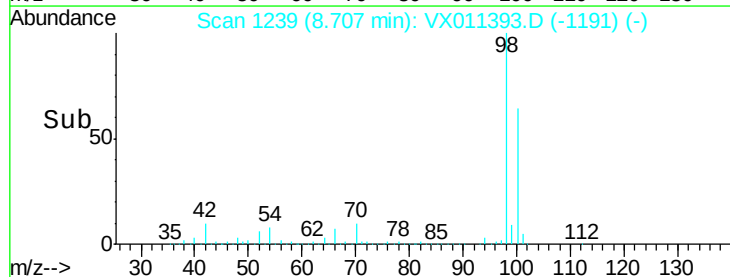
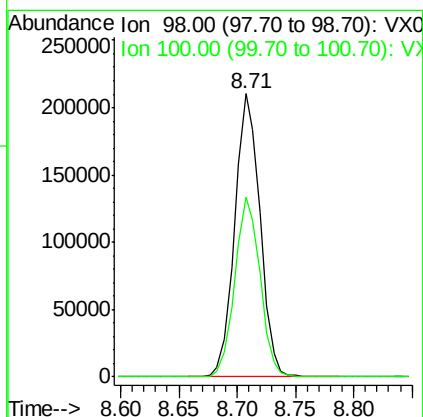
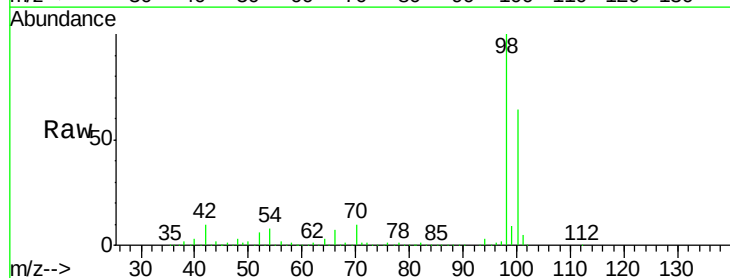
Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-J-0819

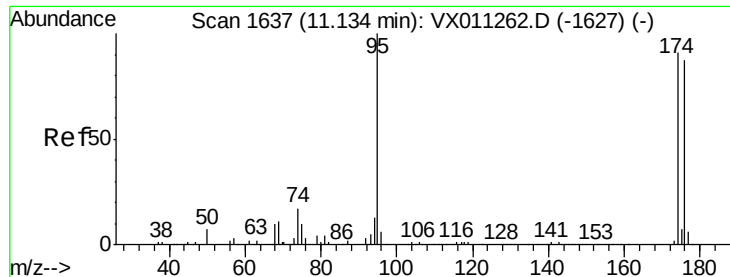
Tot Ion: 83 Resp: 1116  
Ion Ratio Lower Upper  
83 100  
55 88.3 56.1 84.1#  
98 75.6 39.0 58.4#



#50  
Toluene-d8  
Concen: 50.460 ug/l  
RT: 8.71 min Scan# 1239  
Delta R.T. -0.01 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

Tgt Ion: 98 Resp: 319147  
Ion Ratio Lower Upper  
98 100  
100 63.2 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 50.989 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011393.D

Acq: 08 Aug 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

EP1-MW-J-0819

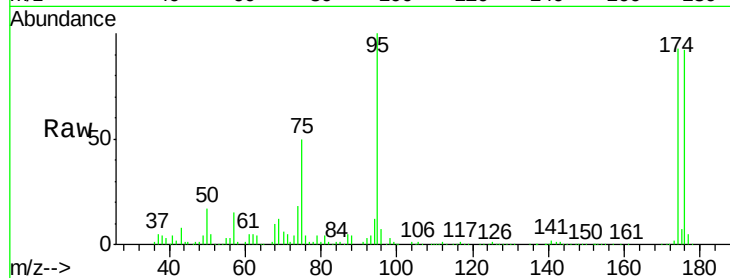
Tot Ion: 95 Resp: 115139

Ion Ratio Lower Upper

95 100

174 91.8 0.0 191.2

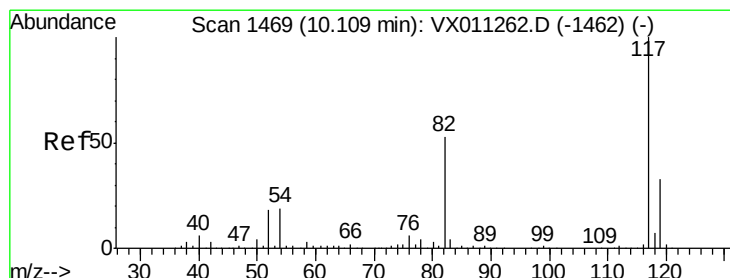
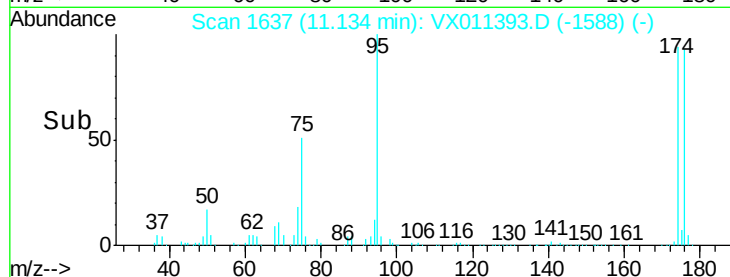
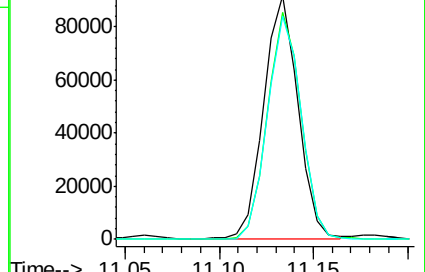
176 91.3 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VX011262.D (-1627) (-)

Ion 173.80 (173.50 to 174.50): VX011262.D (-1627) (-)

Ion 175.80 (175.50 to 176.50): VX011262.D (-1627) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011393.D

Acq: 08 Aug 2019 17:07

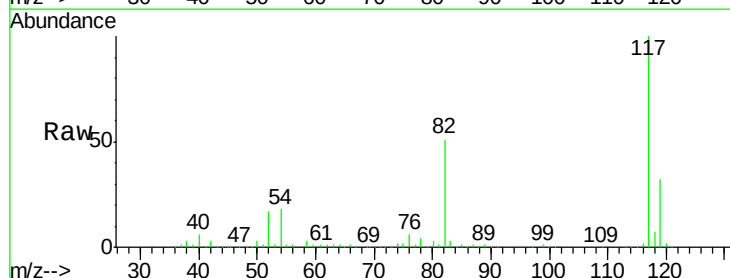
Tgt Ion: 117 Resp: 246727

Ion Ratio Lower Upper

117 100

82 50.9 42.2 63.2

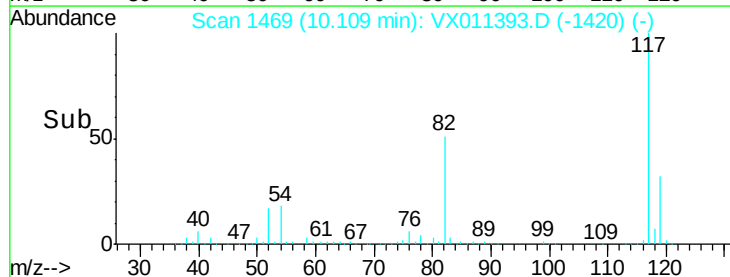
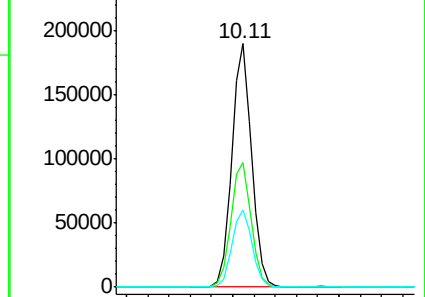
119 31.9 26.6 39.8

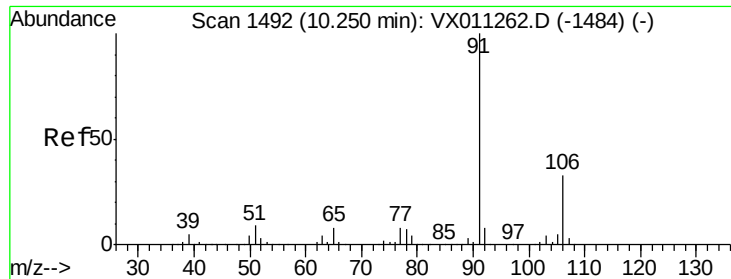


Abundance Ion 116.90 (116.60 to 117.60): VX011262.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011262.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011262.D (-1462) (-)

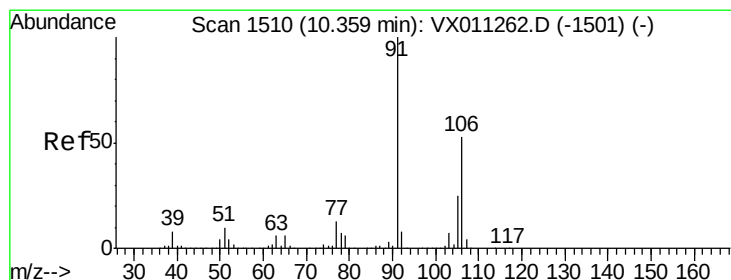
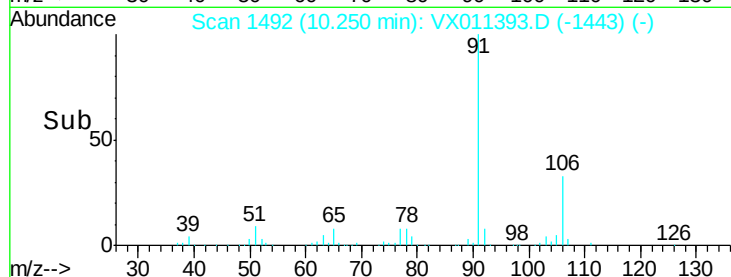
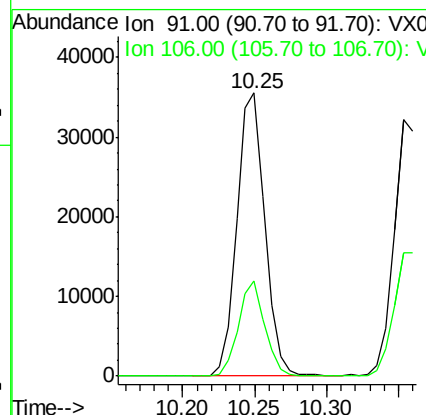
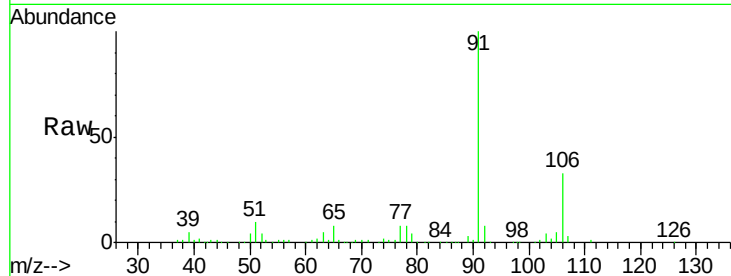




#67  
Ethyl Benzene  
Concen: 5.458 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. -0.00 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

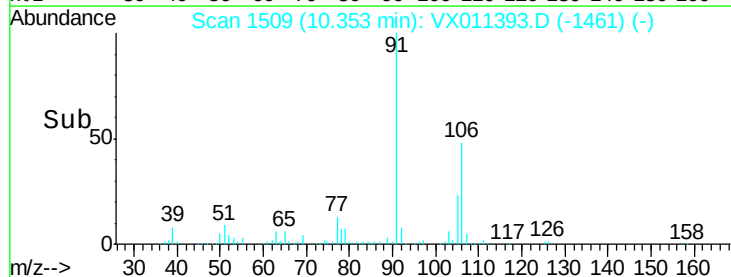
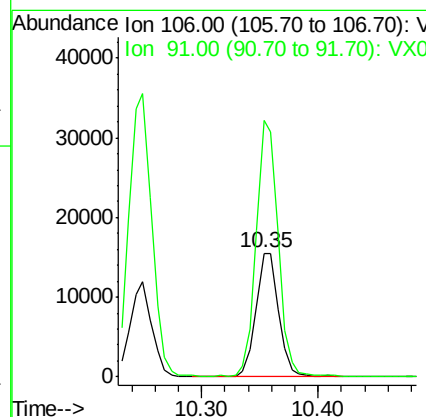
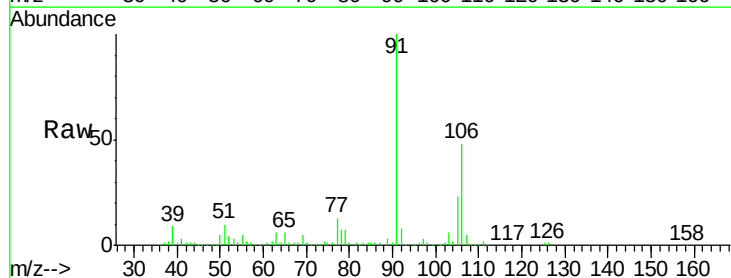
Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-J-0819

Tot Ion: 91 Resp: 48352  
Ion Ratio Lower Upper  
91 100  
106 33.4 26.2 39.4

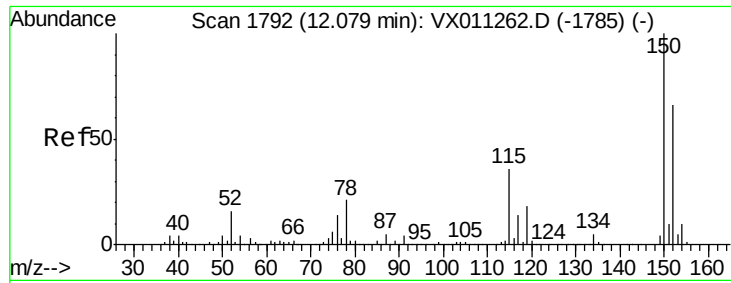


#68  
m/p-Xylenes  
Concen: 6.235 ug/l  
RT: 10.35 min Scan# 1509  
Delta R.T. -0.01 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

Tgt Ion: 106 Resp: 21366  
Ion Ratio Lower Upper  
106 100  
91 198.7 155.9 233.9





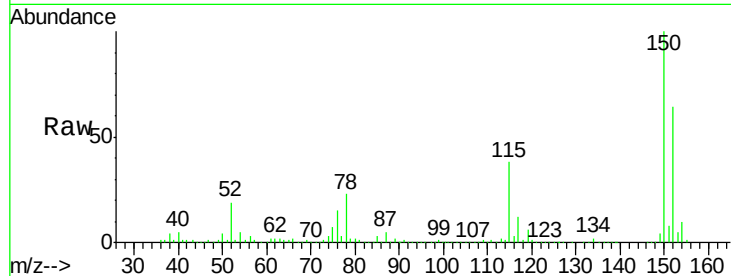


#72

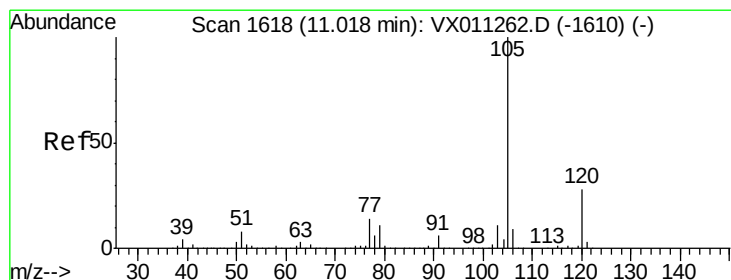
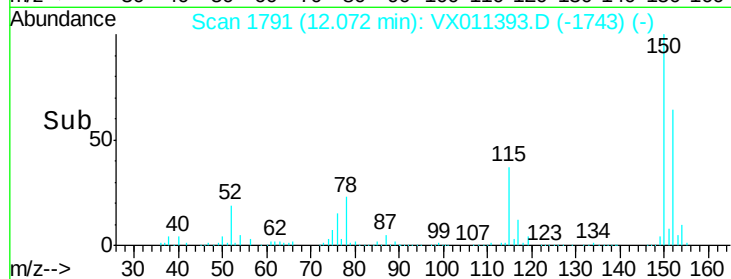
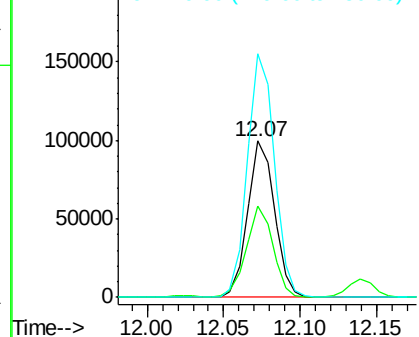
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.01 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-J-0819

Tot Ion:152 Resp: 121869  
Ion Ratio Lower Upper  
152 100  
115 57.4 40.0 119.9  
150 156.1 0.0 350.4



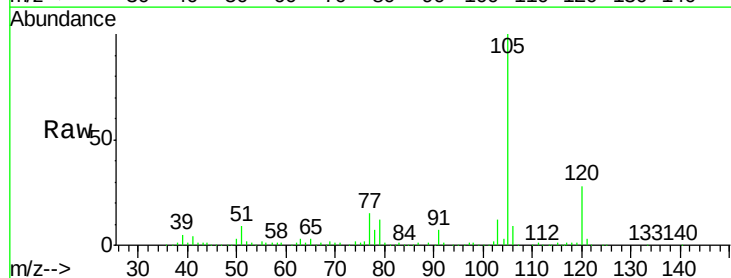
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



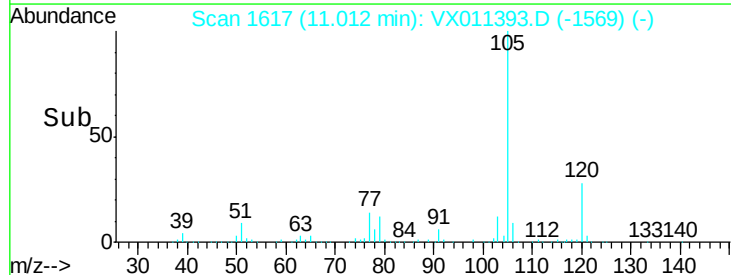
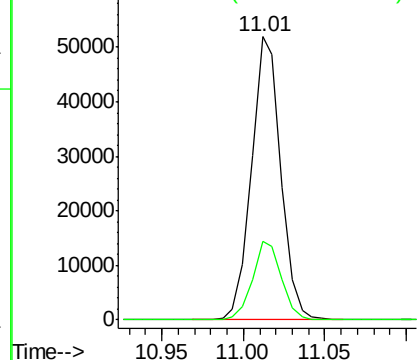
#73

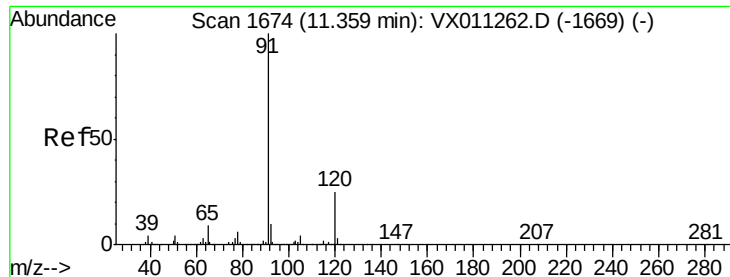
Isopropylbenzene  
Concen: 7.792 ug/l  
RT: 11.01 min Scan# 1617  
Delta R.T. -0.01 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

Tgt Ion:105 Resp: 64949  
Ion Ratio Lower Upper  
105 100  
120 27.4 13.7 41.1



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 14.543 ug/l

RT: 11.35 min Scan# 1673

Delta R.T. -0.01 min

Lab File: VX011393.D

Acq: 08 Aug 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

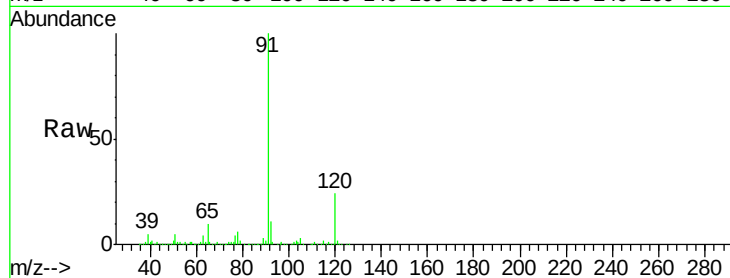
EP1-MW-J-0819

Tot Ion: 91 Resp: 134804

Ion Ratio Lower Upper

91 100

120 24.1 12.4 37.0



Abundance Ion 91.00 (90.70 to 91.70): VX011393.D (-1625) (-)

Ion 120.00 (119.70 to 120.70): VX011393.D (-1625) (-)

11.35

120000

100000

80000

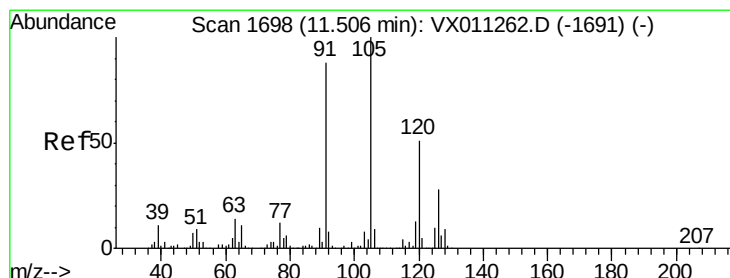
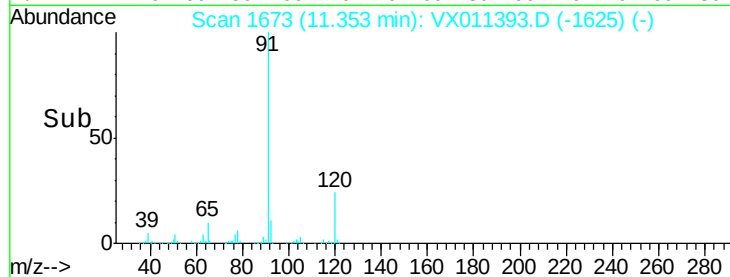
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.454 ug/l

RT: 11.50 min Scan# 1697

Delta R.T. -0.01 min

Lab File: VX011393.D

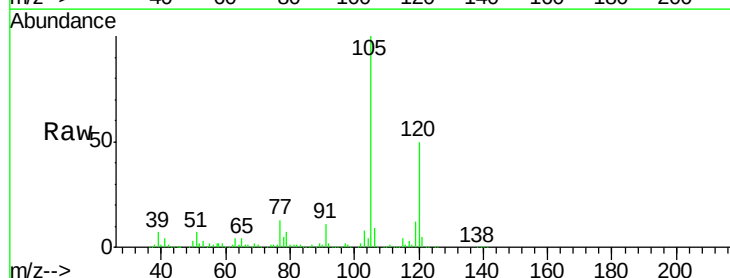
Acq: 08 Aug 2019 17:07

Tgt Ion: 105 Resp: 135737

Ion Ratio Lower Upper

105 100

120 50.5 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VX011393.D (-1649) (-)

Ion 120.00 (119.70 to 120.70): VX011393.D (-1649) (-)

11.50

120000

100000

80000

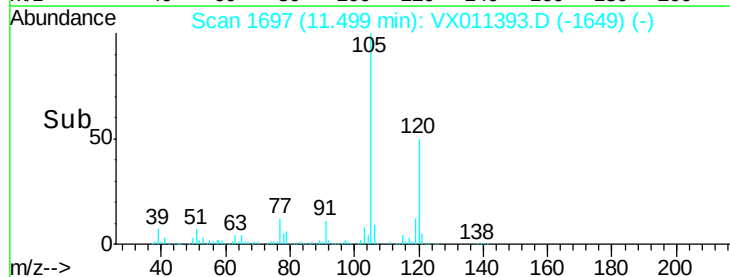
60000

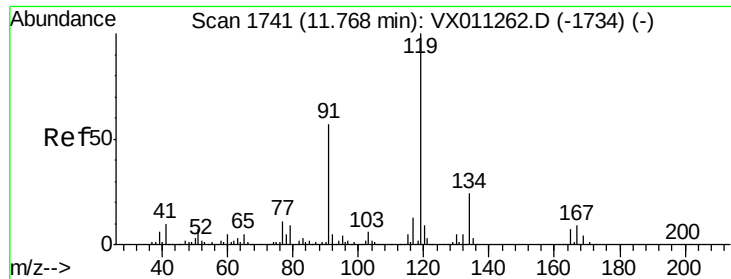
40000

20000

0

Time-->

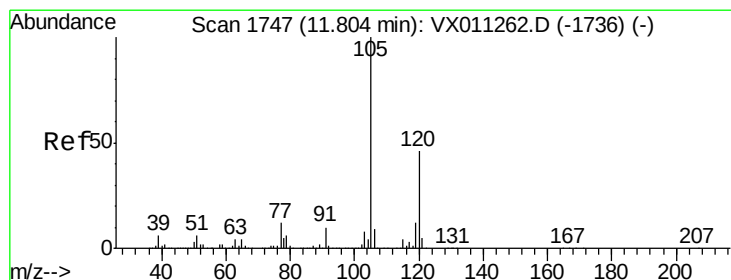
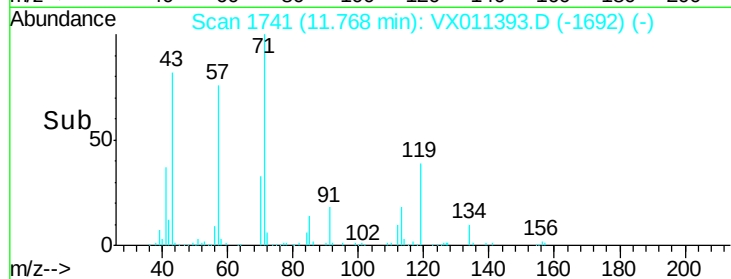
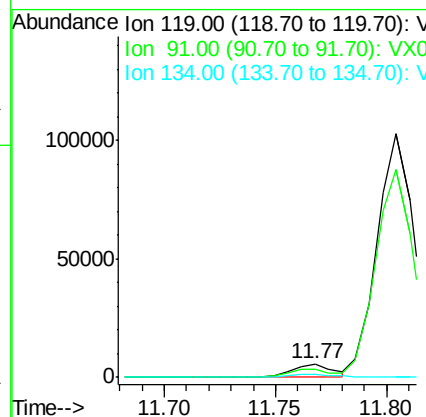
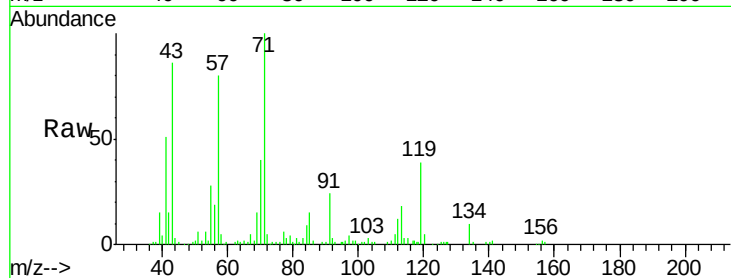




#83  
 tert-Butylbenzene  
 Concen: 1.042 ug/l  
 RT: 11.77 min Scan# 1741  
 Delta R.T. -0.00 min  
 Lab File: VX011393.D  
 Acq: 08 Aug 2019 17:07

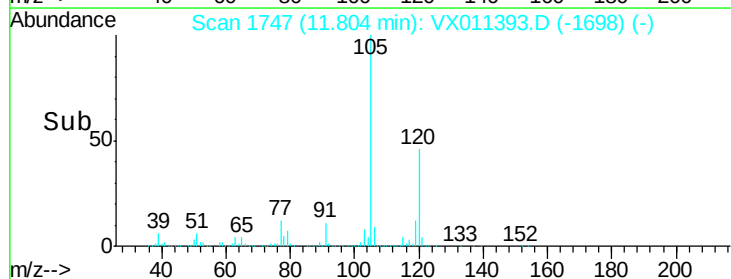
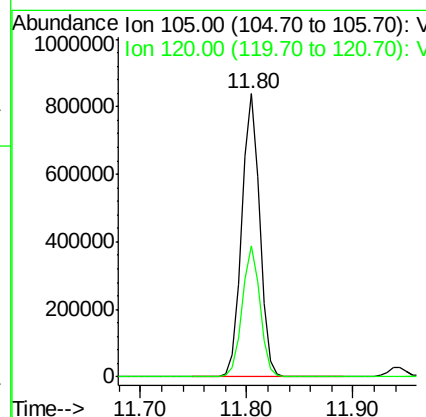
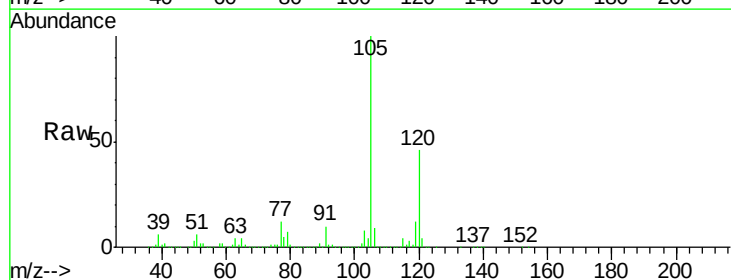
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 EP1-MW-J-0819

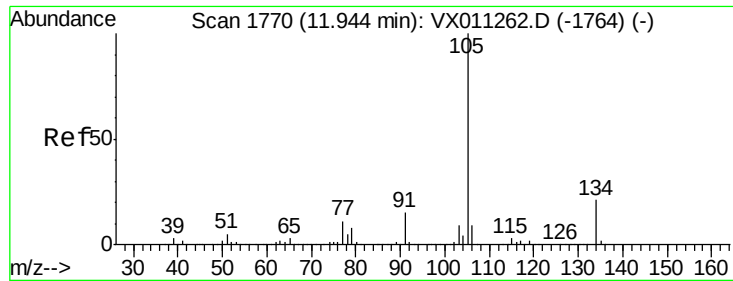
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 67.0  | 28.0  | 84.0  |
| 134     | 23.6  | 11.9  | 35.5  |



#84  
 1,2,4-Trimethylbenzene  
 Concen: 142.661 ug/l  
 RT: 11.80 min Scan# 1747  
 Delta R.T. -0.00 min  
 Lab File: VX011393.D  
 Acq: 08 Aug 2019 17:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 46.1  | 23.0  | 69.0  |





#85

sec-Butylbenzene

Concen: 4.441 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX011393.D

Acq: 08 Aug 2019 17:07

Instrument :

MSVOA\_X

ClientSampleId :

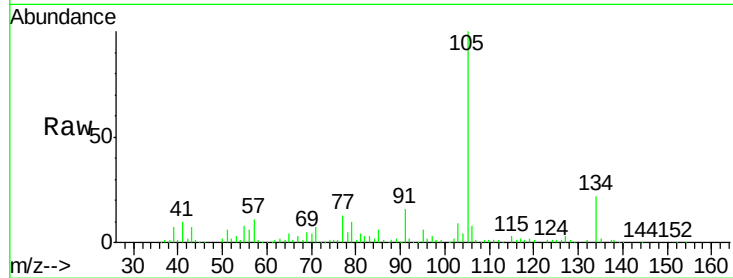
EP1-MW-J-0819

Tot Ion:105 Resp: 36509

Ion Ratio Lower Upper

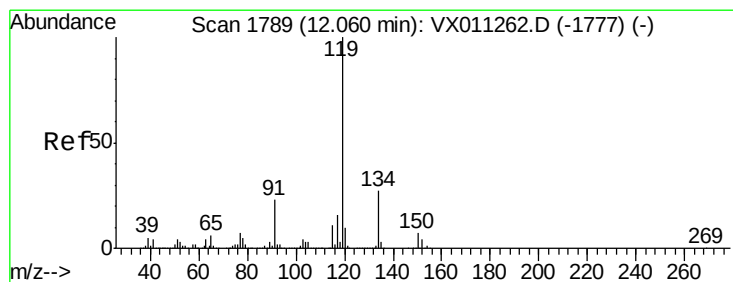
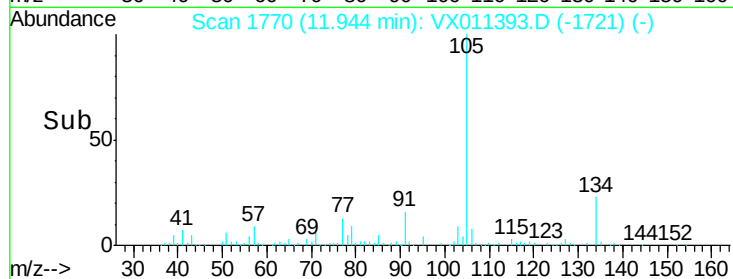
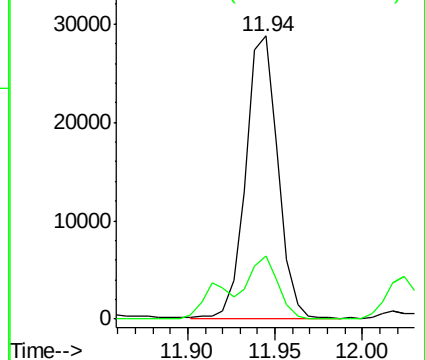
105 100

134 21.0 10.4 31.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.557 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX011393.D

Acq: 08 Aug 2019 17:07

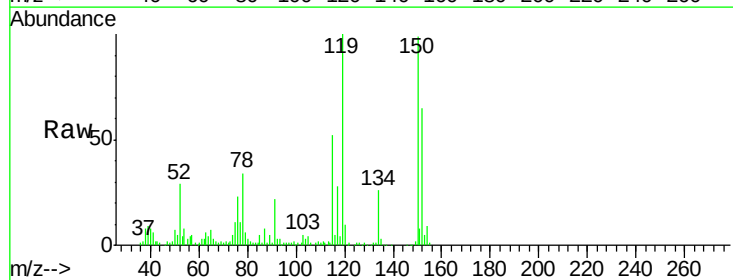
Tgt Ion:119 Resp: 34465

Ion Ratio Lower Upper

119 100

134 27.5 13.7 41.0

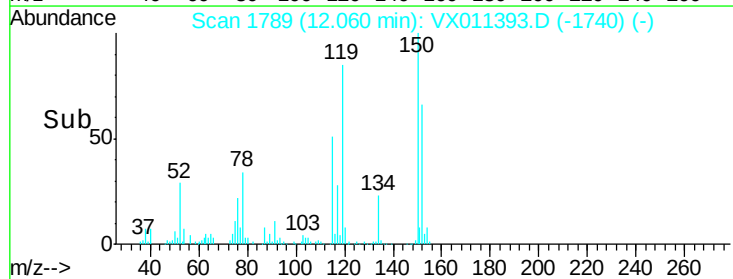
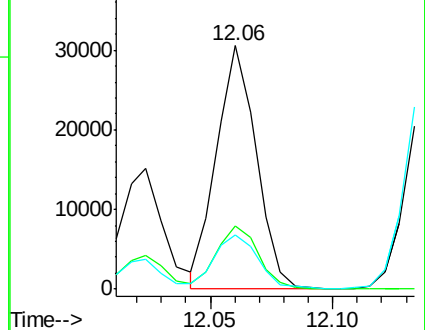
91 24.9 11.4 34.2

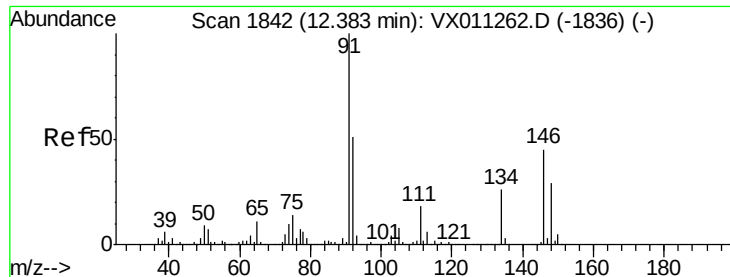


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

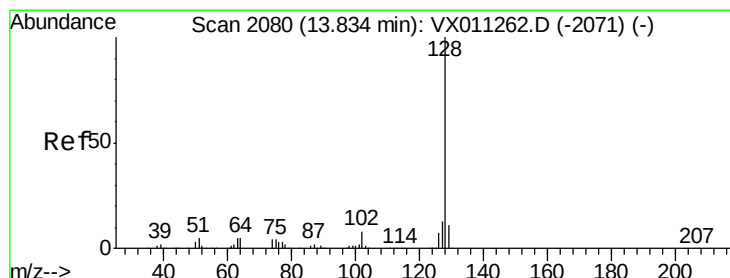
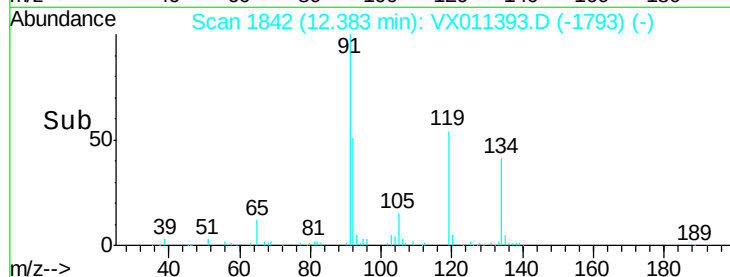
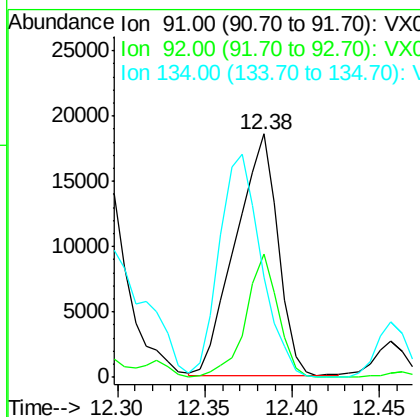
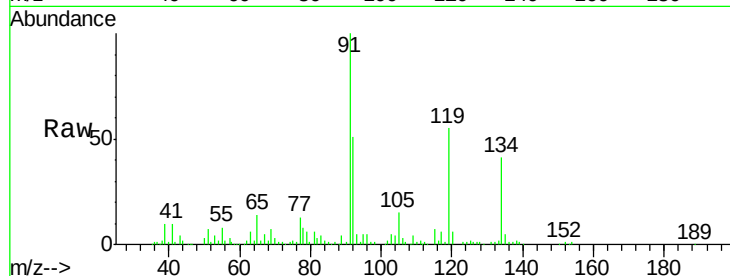




#89  
n-Butylbenzene  
Concen: 4.815 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. -0.00 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-J-0819

Tot Ion: 91 Resp: 31375  
Ion Ratio Lower Upper  
91 100  
92 38.8 25.8 77.3  
134 90.8 13.7 41.0#



#95  
Naphthalene  
Concen: 1.466 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX011393.D  
Acq: 08 Aug 2019 17:07

Tgt Ion: 128 Resp: 11665  
Ion Ratio Lower Upper  
128 100  
127 11.4 10.4 15.6  
129 13.2 8.9 13.3

