

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050117\  
 Data File : BF094748.D  
 Acq On : 1 May 2017 13:47  
 Operator : SJ/MA  
 Sample : I2902-04 2X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-6B

Quant Time: May 02 02:14:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 17 14:59:23 2017  
 Response via : Initial Calibration

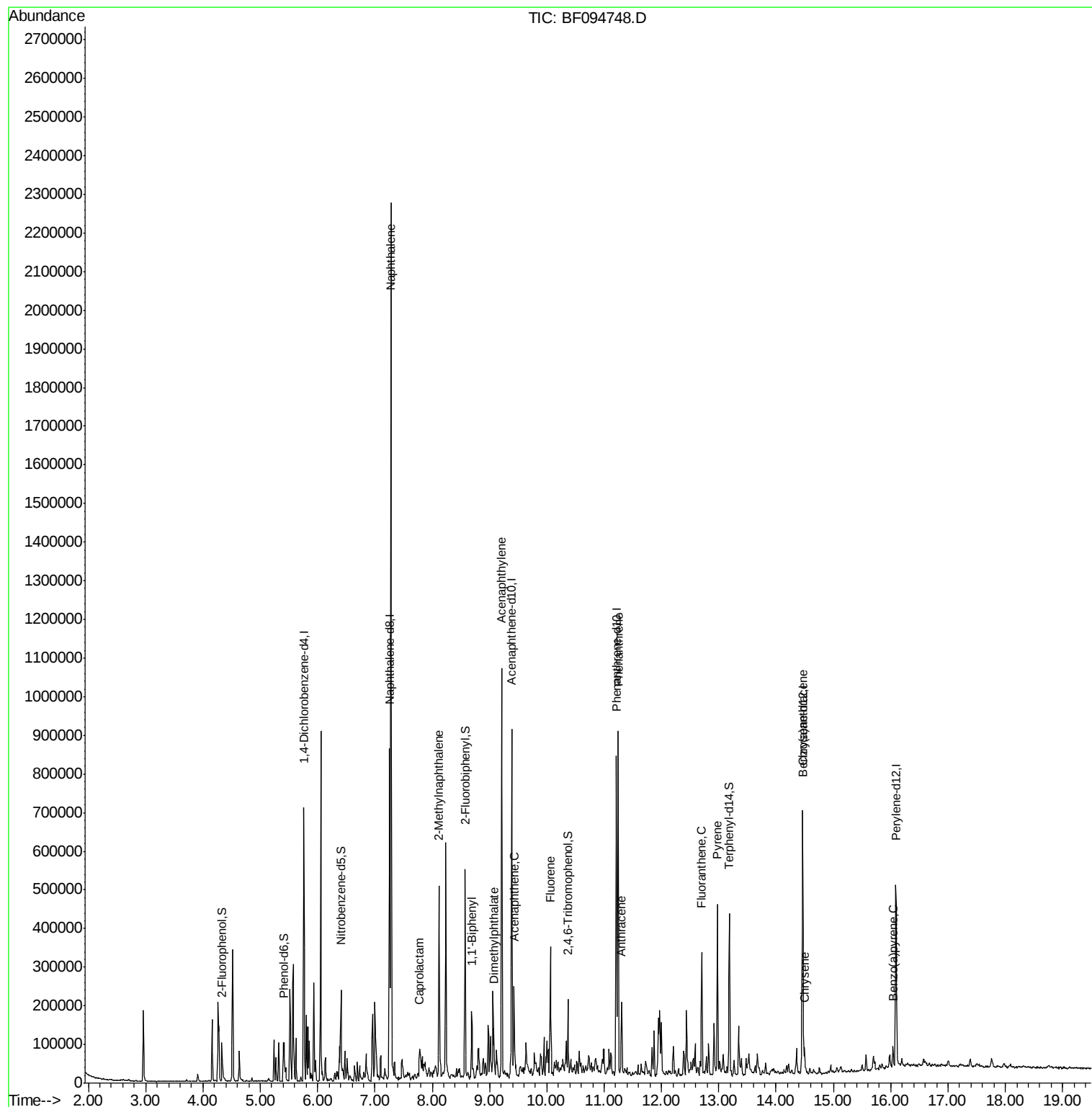
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.76  | 152  | 107429   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.25  | 136  | 400182   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.39  | 164  | 186292   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.21 | 188  | 322961   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.47 | 240  | 262112   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 16.09 | 264  | 191050   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.33  | 112  | 37573    | 5.80  | ng    | 0.03     |
| 7) Phenol-d6                | 5.40  | 99   | 31223    | 4.09  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 6.41  | 82   | 74850    | 11.55 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.37 | 330  | 20336    | 13.96 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 8.57  | 172  | 159585   | 12.60 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.18 | 244  | 129506   | 13.21 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 7.28  | 128  | 1047552  | 54.45 | ng    | 100      |
| 35) Caprolactam             | 7.78  | 113  | 9649     | 5.54  | ng    | # 91     |
| 37) 2-Methylnaphthalene     | 8.12  | 142  | 145343   | 11.04 | ng    | 98       |
| 45) 1,1'-Biphenyl           | 8.69  | 154  | 57102    | 3.75  | ng    | 95       |
| 48) Acenaphthylene          | 9.21  | 152  | 467128   | 24.76 | ng    | 100      |
| 49) Dimethylphthalate       | 9.08  | 163  | 50138    | 3.61  | ng    | 96       |
| 51) Acenaphthene            | 9.42  | 154  | 48500    | 4.29  | ng    | 95       |
| 57) Fluorene                | 10.07 | 166  | 101162   | 7.91  | ng    | 99       |
| 70) Phenanthrene            | 11.24 | 178  | 355468   | 19.55 | ng    | 97       |
| 71) Anthracene              | 11.31 | 178  | 83471    | 4.44  | ng    | 98       |
| 74) Fluoranthene            | 12.70 | 202  | 143683   | 7.62  | ng    | 99       |
| 77) Pyrene                  | 12.98 | 202  | 183576   | 10.02 | ng    | 97       |
| 80) Benzo(a)anthracene      | 14.45 | 228  | 33811m   | 2.22  | ng    |          |
| 82) Chrysene                | 14.49 | 228  | 29073    | 2.09  | ng    | 98       |
| 89) Benzo(a)pyrene          | 16.04 | 252  | 23029    | 2.12  | ng    | # 96     |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.76 min Scan# 650

Delta R.T. -0.00 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA\_F

ClientSampled :

MW-6B

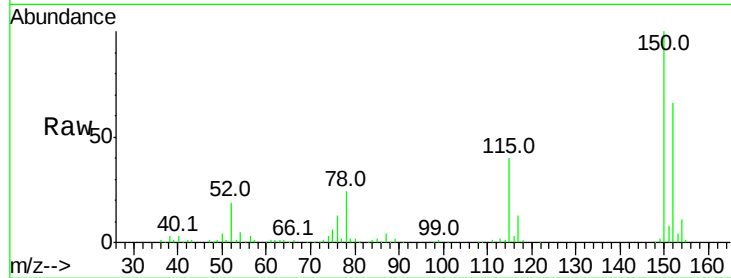
Tot Ion:152 Resp: 107429

Ion Ratio Lower Upper

152 100

150 152.2 126.2 189.2

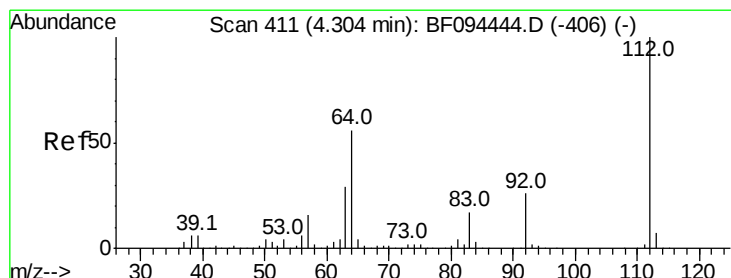
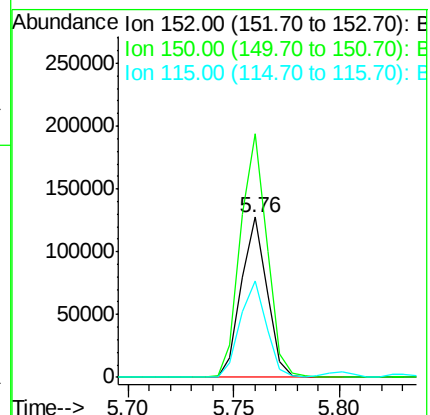
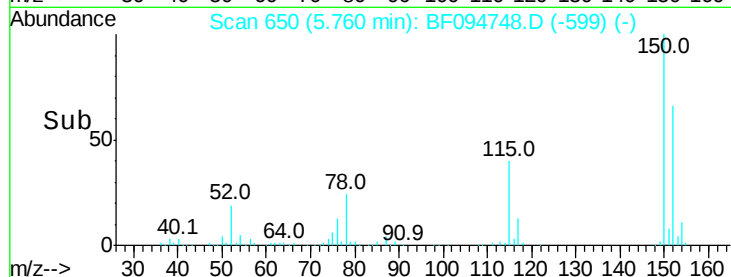
115 60.3 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 5.80 ng

RT: 4.33 min Scan# 407

Delta R.T. 0.03 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

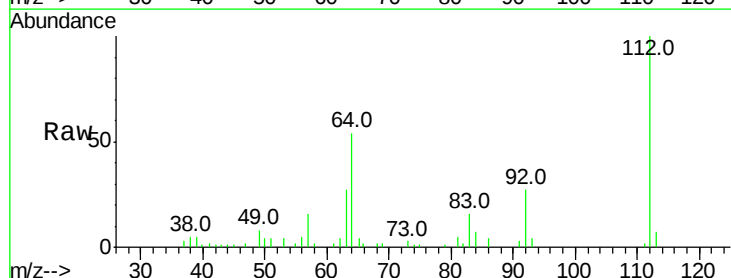
Tgt Ion:112 Resp: 37573

Ion Ratio Lower Upper

112 100

64 54.1 46.0 69.0

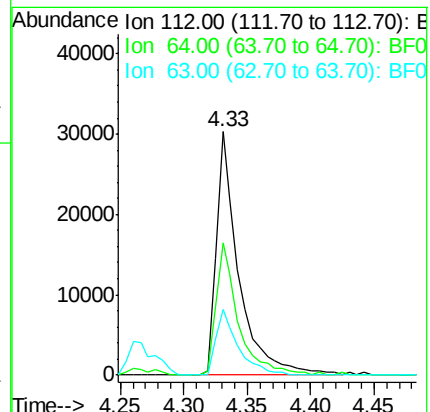
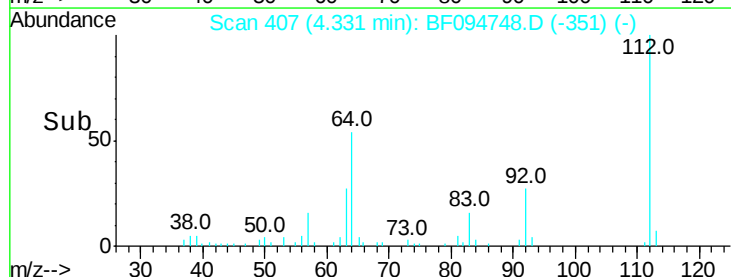
63 27.2 23.4 35.0

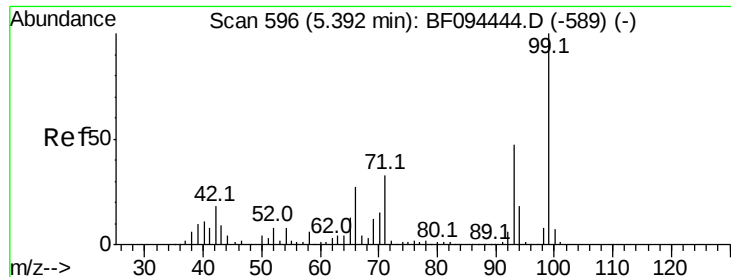


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 4.09 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

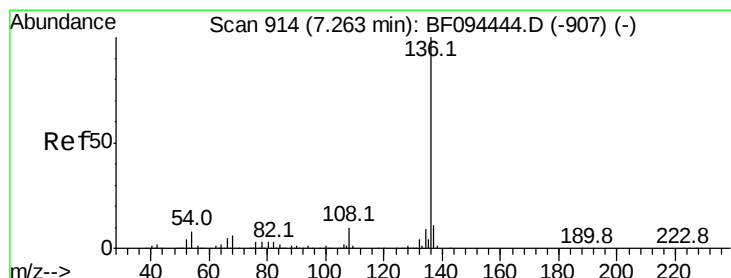
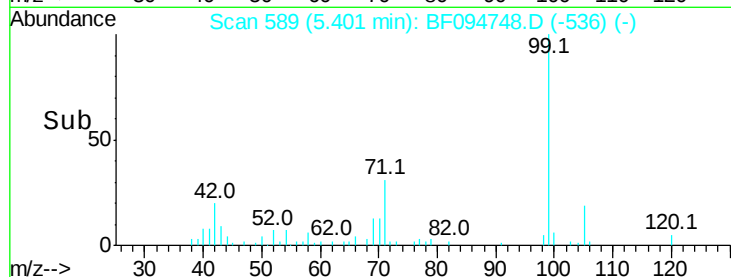
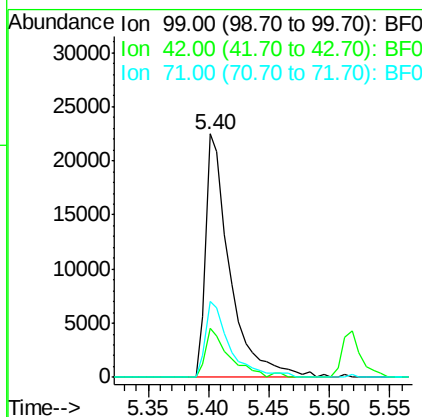
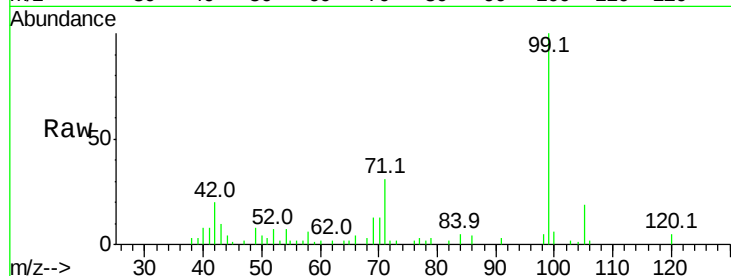
BNA\_F

ClientSampleId :

MW-6B

Tot Ion: 99 Resp: 31223

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.3  | 13.5  | 20.3# |
| 71  | 31.0  | 24.5  | 36.7  |



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.25 min Scan# 904

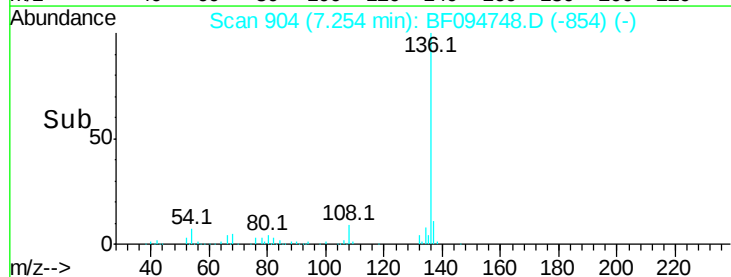
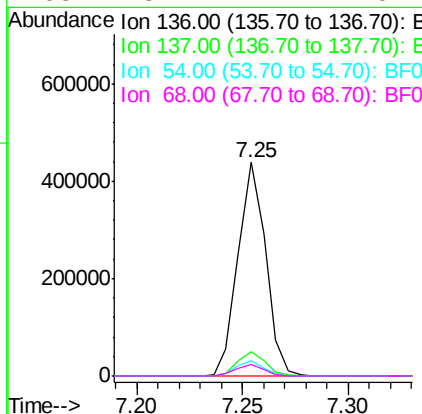
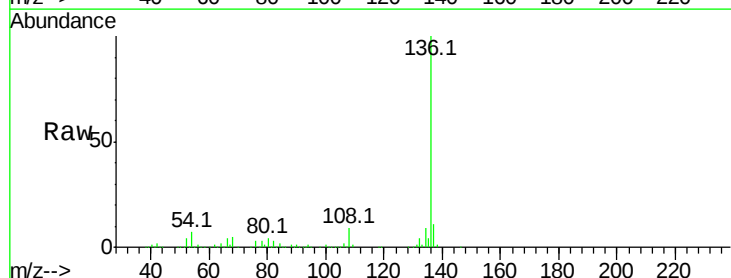
Delta R.T. -0.01 min

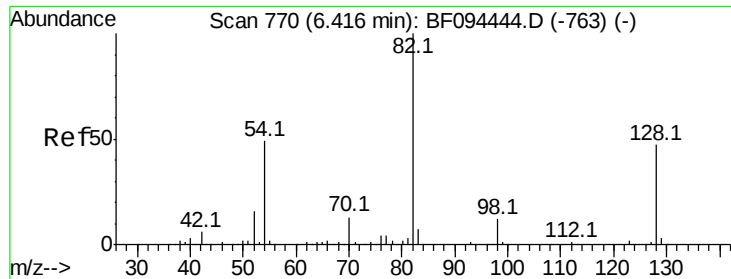
Lab File: BF094748.D

Acq: 1 May 2017 13:47

Tgt Ion: 136 Resp: 400182

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 8.5   | 12.7  |
| 54  | 7.1   | 4.9   | 7.3   |
| 68  | 5.4   | 4.1   | 6.1   |

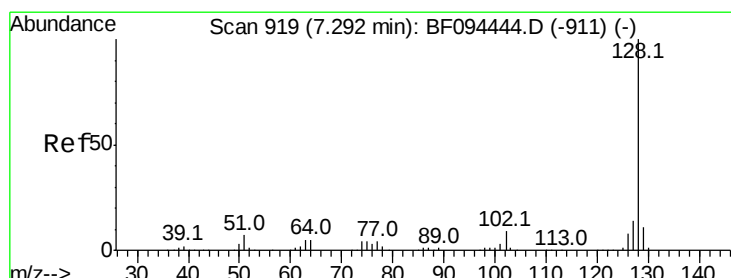
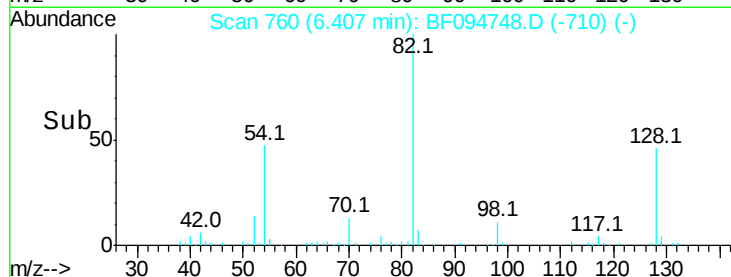
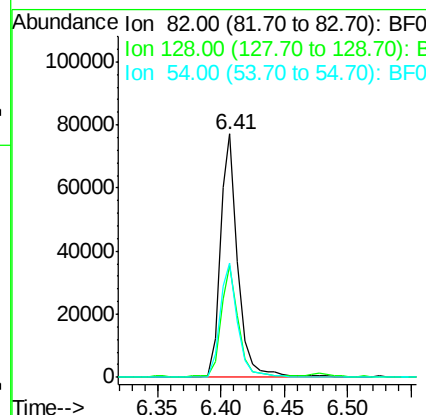
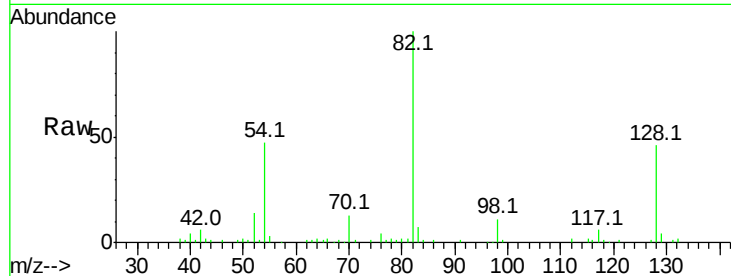




#23  
 Nitrobenzene-d5  
 Concen: 11.55 ng  
 RT: 6.41 min Scan# 760  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

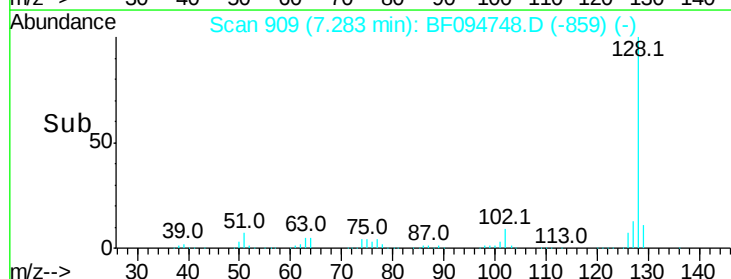
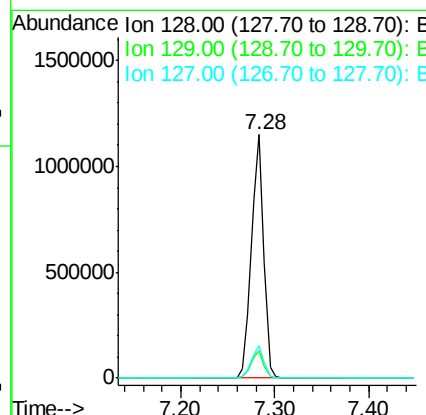
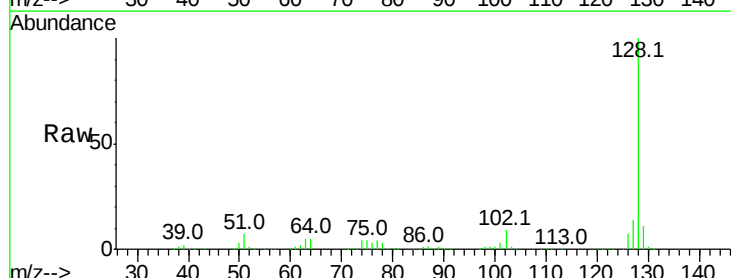
Instrument :  
 BNA\_F  
 ClientSampled :  
 MW-6B

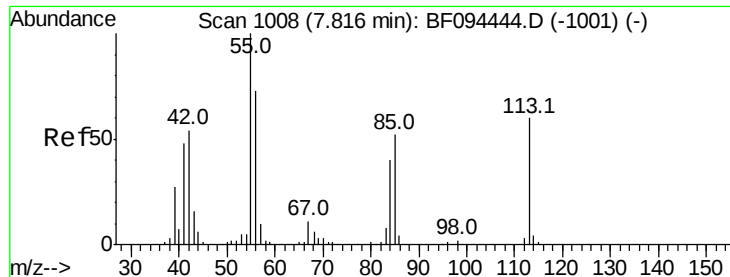
Tot Ion: 82 Resp: 74850  
 Ion Ratio Lower Upper  
 82 100  
 128 46.1 34.0 51.0  
 54 47.2 42.2 63.2



#31  
 Naphthalene  
 Concen: 54.45 ng  
 RT: 7.28 min Scan# 909  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

Tgt Ion:128 Resp: 1047552  
 Ion Ratio Lower Upper  
 128 100  
 129 11.1 9.0 13.6  
 127 13.5 10.8 16.2

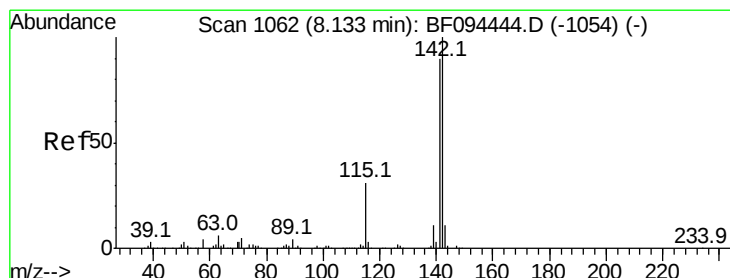
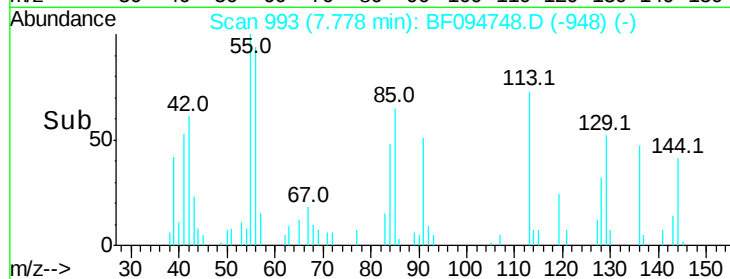
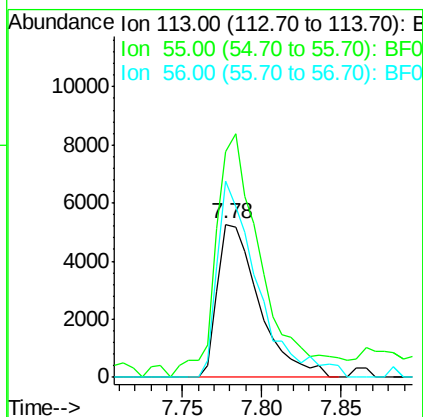
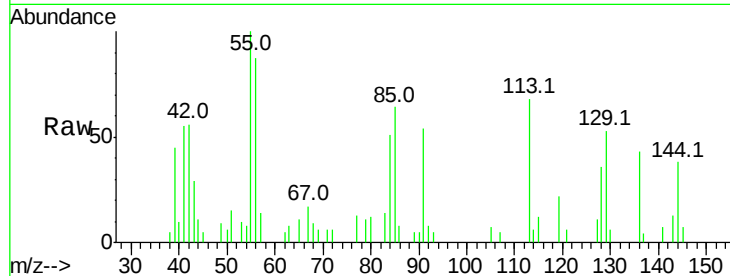




#35  
 Caprolactam  
 Concen: 5.54 ng  
 RT: 7.78 min Scan# 993  
 Delta R.T. -0.04 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

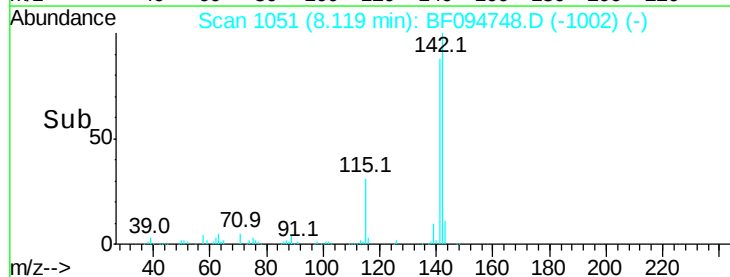
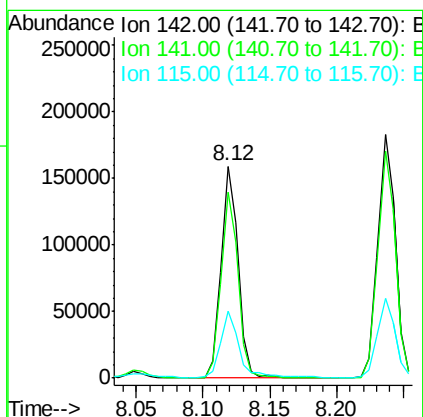
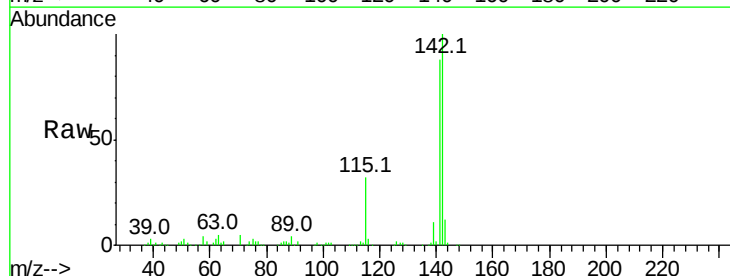
Instrument :  
 BNA\_F  
 ClientSampled :  
 MW-6B

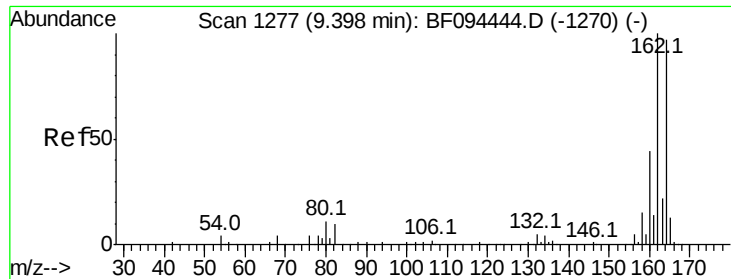
Tot Ion:113 Resp: 9649  
 Ion Ratio Lower Upper  
 113 100  
 55 147.8 150.2 190.2#  
 56 128.0 107.8 147.8



#37  
 2-Methylnaphthalene  
 Concen: 11.04 ng  
 RT: 8.12 min Scan# 1051  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

Tgt Ion:142 Resp: 145343  
 Ion Ratio Lower Upper  
 142 100  
 141 87.9 71.3 106.9  
 115 31.7 27.1 40.7





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.39 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA\_F

ClientSampleId :

MW-6B

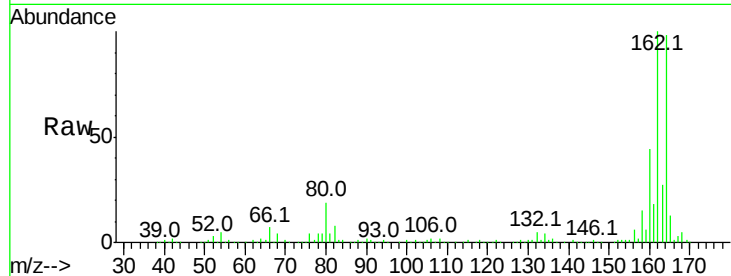
Tot Ion:164 Resp: 186292

Ion Ratio Lower Upper

164 100

162 101.8 82.6 123.8

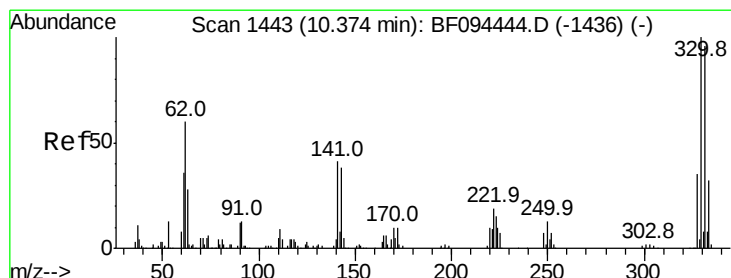
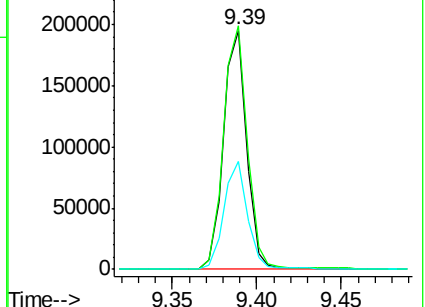
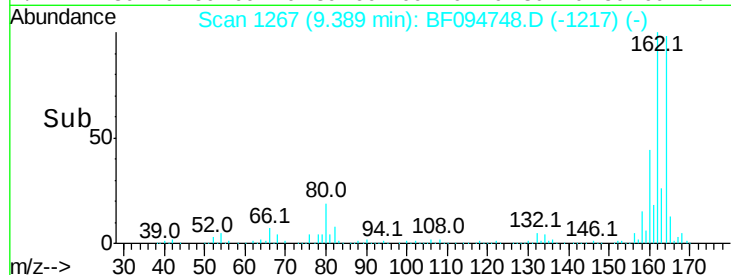
160 45.1 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 13.96 ng

RT: 10.37 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

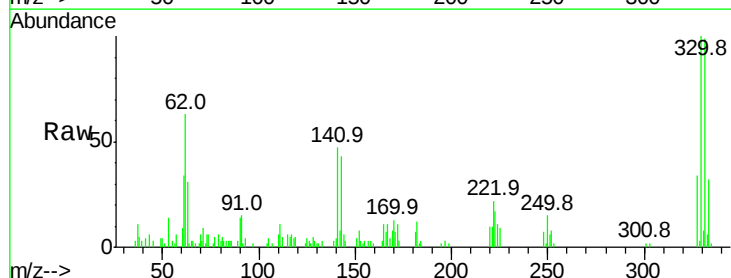
Tgt Ion:330 Resp: 20336

Ion Ratio Lower Upper

330 100

332 96.1 76.6 115.0

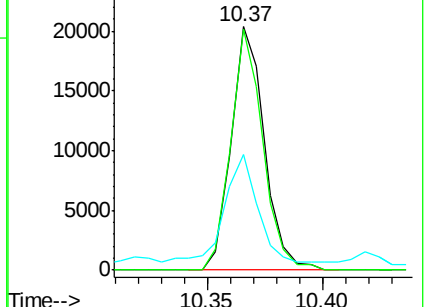
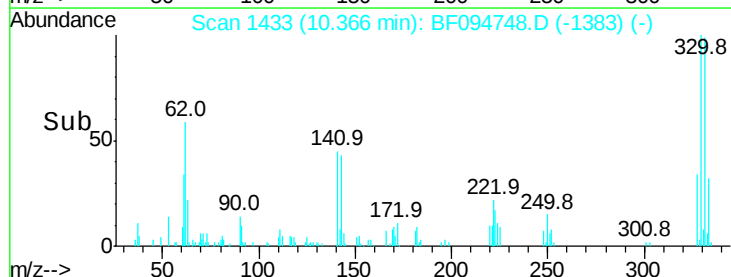
141 46.5 31.4 47.2

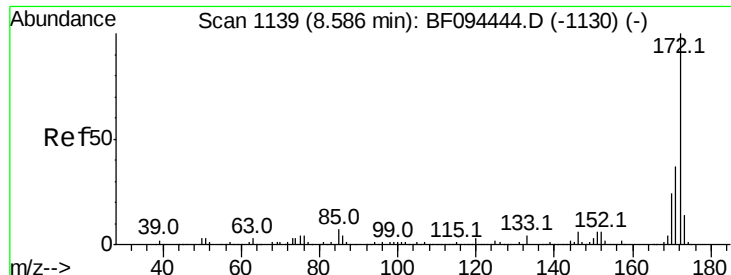


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

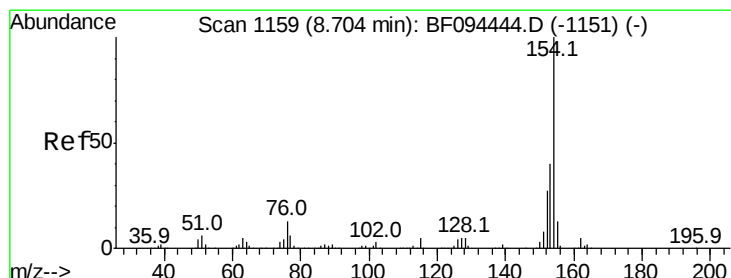
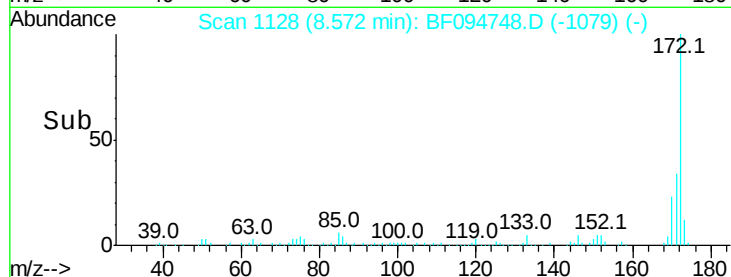
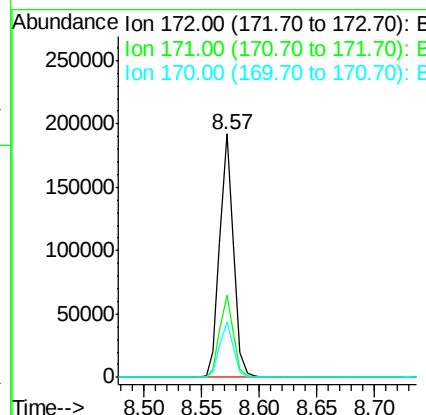
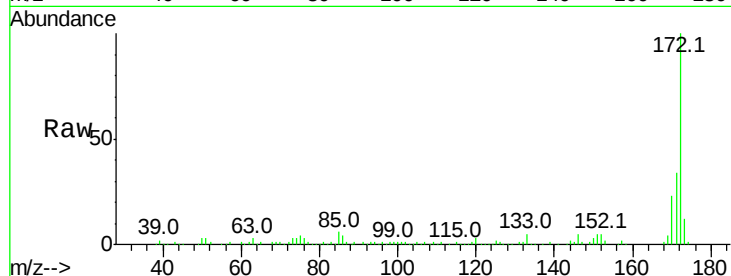




#44  
 2-Fluorobiphenyl  
 Concen: 12.60 ng  
 RT: 8.57 min Scan# 1128  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

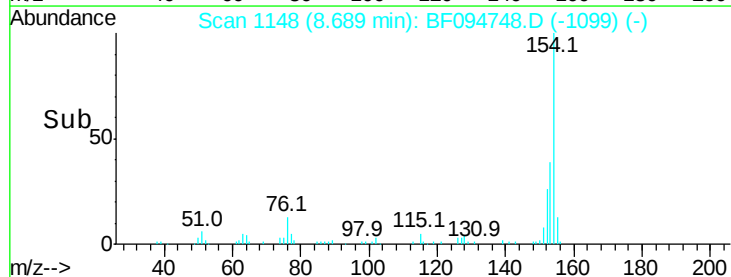
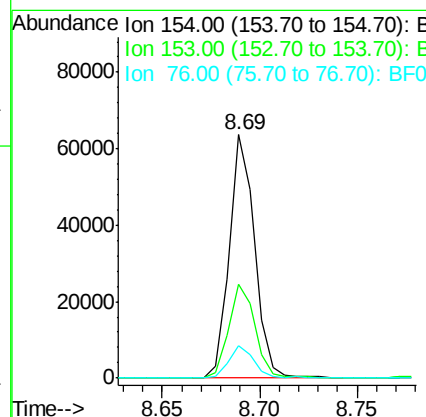
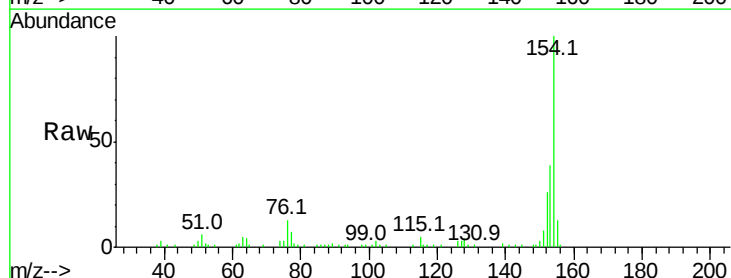
Instrument :  
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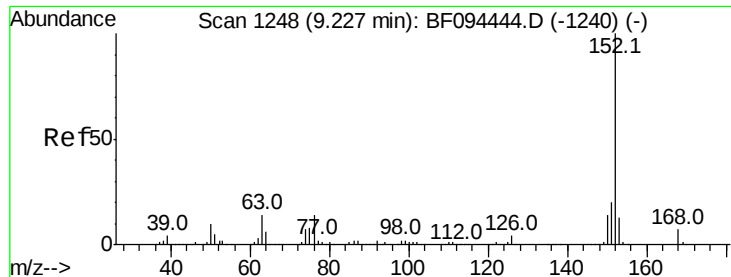
Tot Ion:172 Resp: 159585  
 Ion Ratio Lower Upper  
 172 100  
 171 33.9 29.6 44.4  
 170 22.7 19.8 29.8



#45  
 1,1'-Biphenyl  
 Concen: 3.75 ng  
 RT: 8.69 min Scan# 1148  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

Tgt Ion:154 Resp: 57102  
 Ion Ratio Lower Upper  
 154 100  
 153 38.8 21.2 61.2  
 76 13.3 0.0 29.9

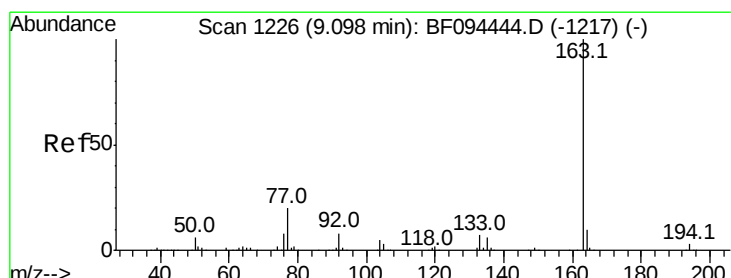
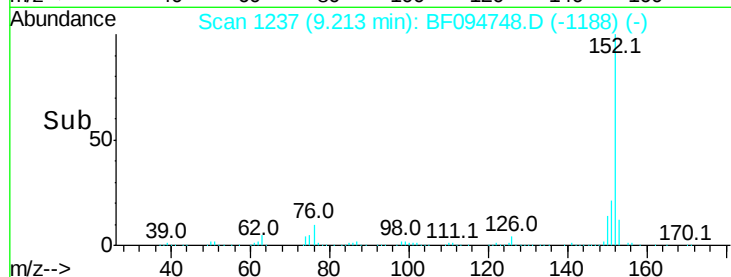
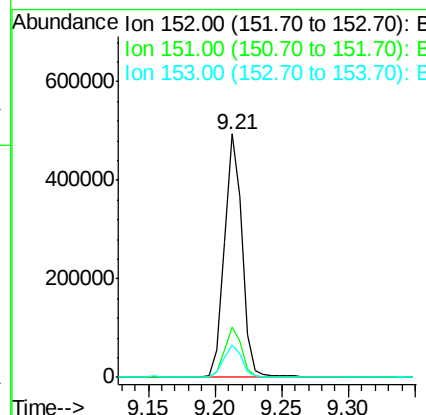
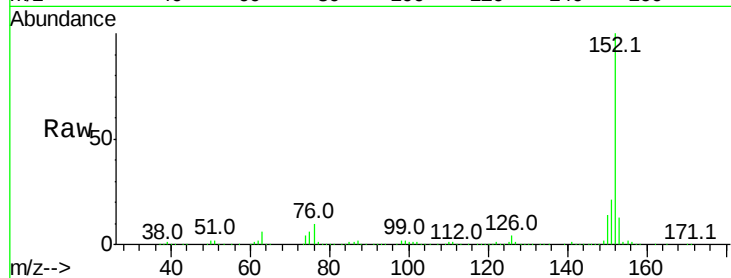




#48  
Acenaphthylene  
Concen: 24.76 ng  
RT: 9.21 min Scan# 1237  
Delta R.T. -0.01 min  
Lab File: BF094748.D  
Acq: 1 May 2017 13:47

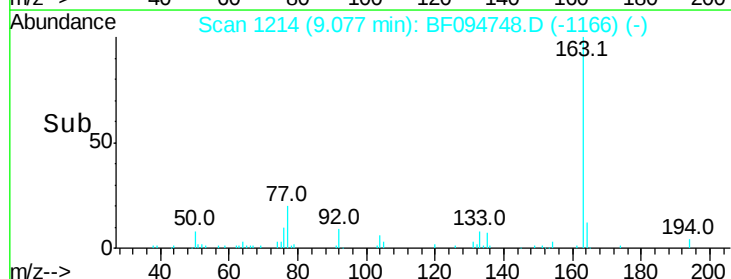
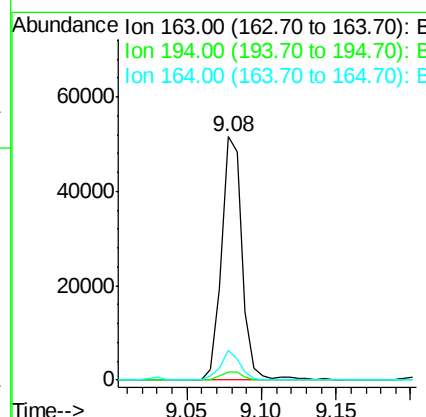
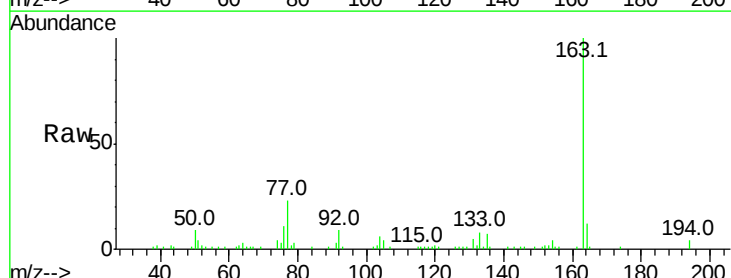
Instrument :  
BNA\_F  
ClientSampleId :  
MW-6B

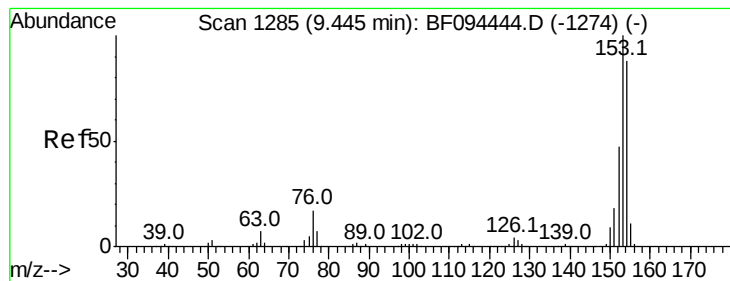
Tot Ion:152 Resp: 467128  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.8 25.2  
153 13.5 10.8 16.2



#49  
Dimethylphthalate  
Concen: 3.61 ng  
RT: 9.08 min Scan# 1214  
Delta R.T. -0.02 min  
Lab File: BF094748.D  
Acq: 1 May 2017 13:47

Tgt Ion:163 Resp: 50138  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.6 4.0  
164 12.5 8.4 12.6





#51

Acenaphthene

Concen: 4.29 ng

RT: 9.42 min Scan# 1273

Delta R.T. -0.02 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA\_F

ClientSampleId :

MW-6B

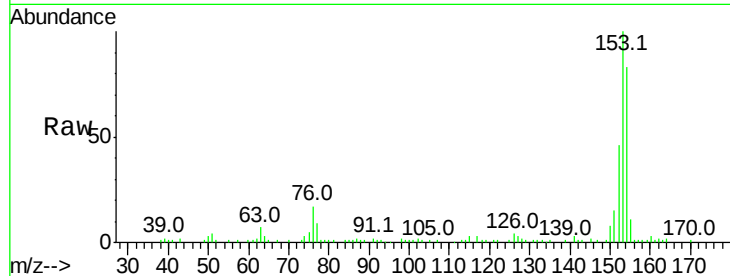
Tot Ion:154 Resp: 48500

Ion Ratio Lower Upper

154 100

153 120.3 90.5 135.7

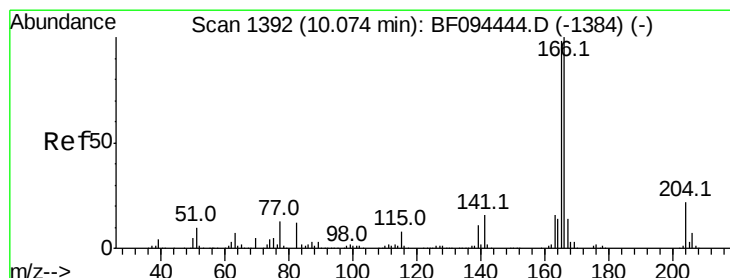
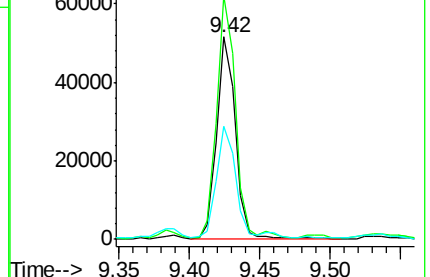
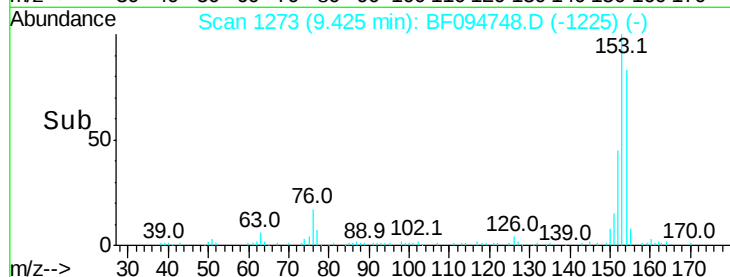
152 55.6 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 7.91 ng

RT: 10.07 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

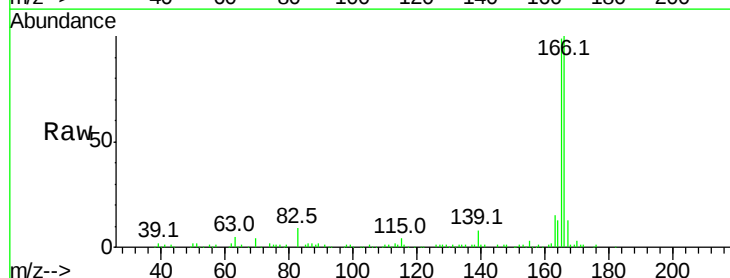
Tgt Ion:166 Resp: 101162

Ion Ratio Lower Upper

166 100

165 99.5 78.8 118.2

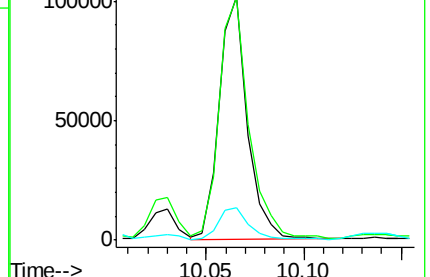
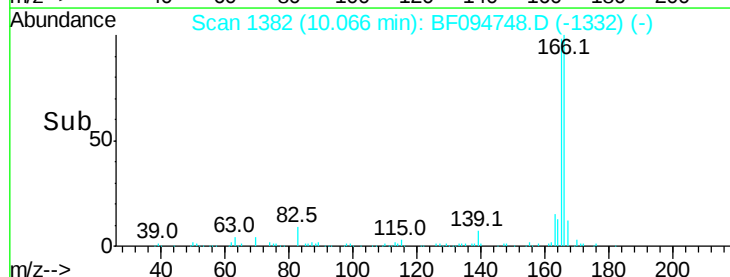
167 13.4 10.6 16.0

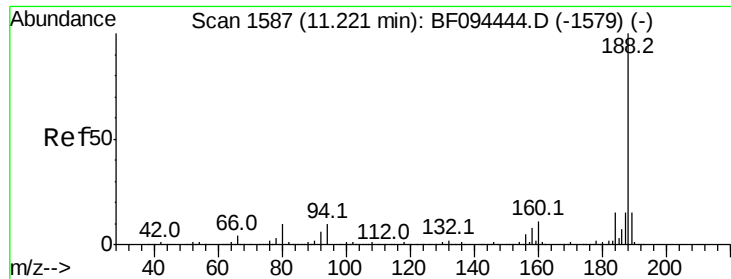


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

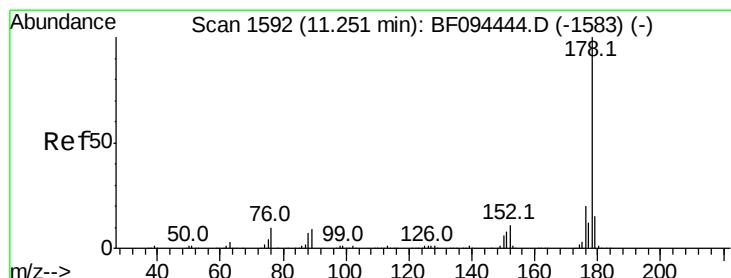
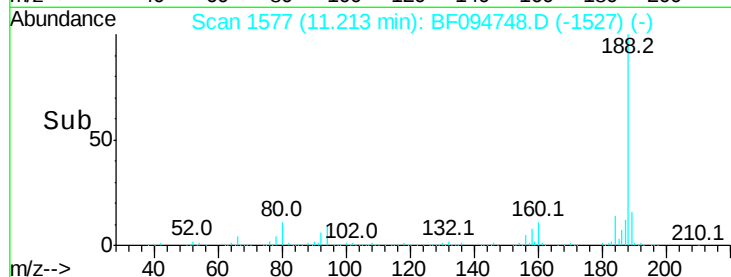
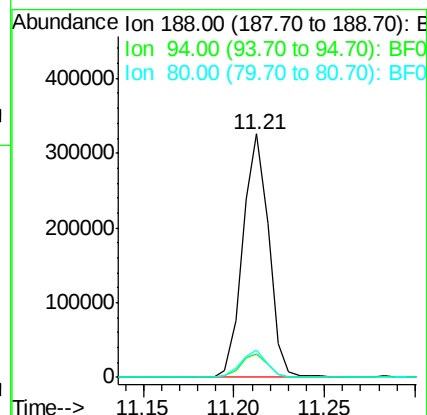
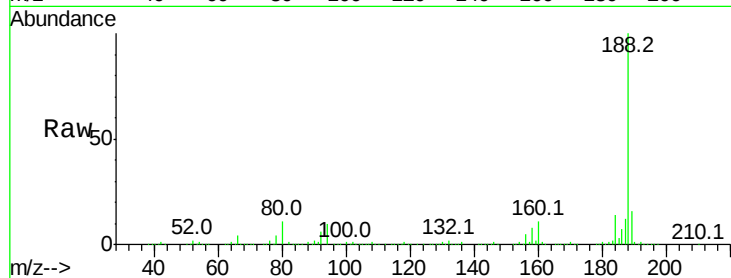




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.21 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF094748.D  
Acq: 1 May 2017 13:47

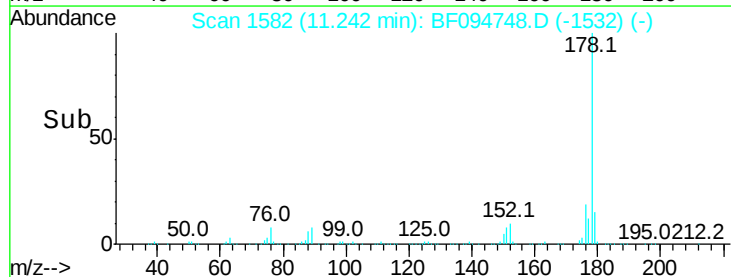
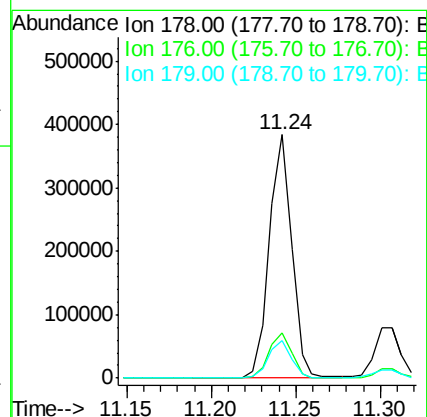
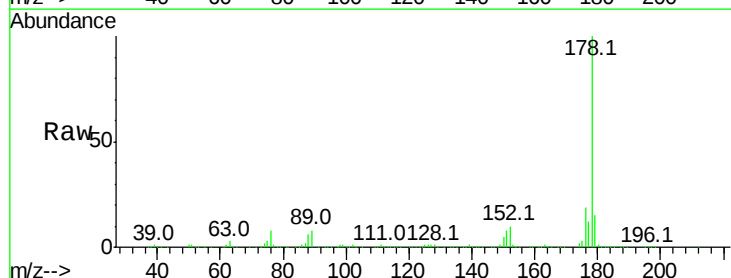
Instrument :  
BNA\_F  
ClientSampleId :  
MW-6B

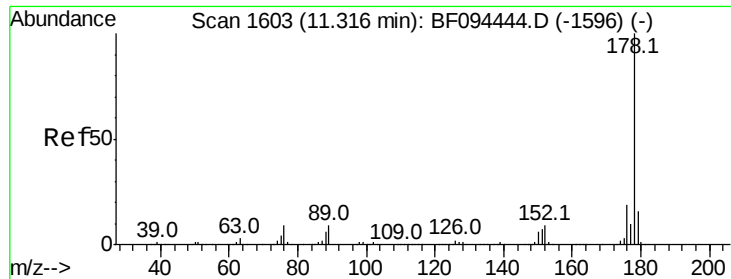
Tot Ion:188 Resp: 322961  
Ion Ratio Lower Upper  
188 100  
94 9.8 9.4 14.2  
80 11.0 10.2 15.2



#70  
Phenanthrene  
Concen: 19.55 ng  
RT: 11.24 min Scan# 1582  
Delta R.T. -0.01 min  
Lab File: BF094748.D  
Acq: 1 May 2017 13:47

Tgt Ion:178 Resp: 355468  
Ion Ratio Lower Upper  
178 100  
176 18.6 16.2 24.4  
179 15.2 12.6 19.0

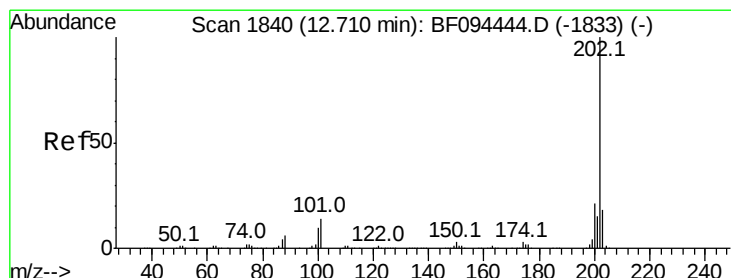
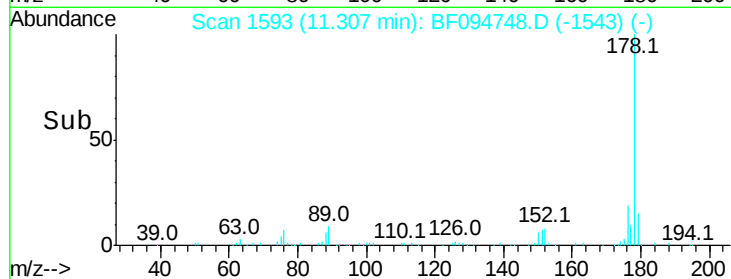
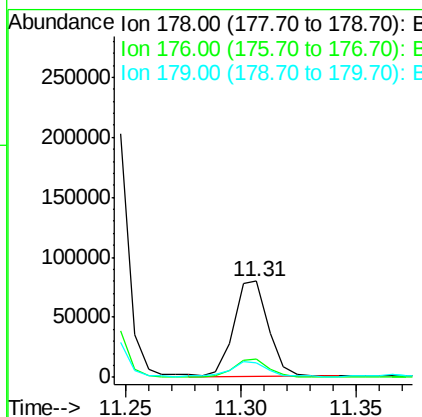
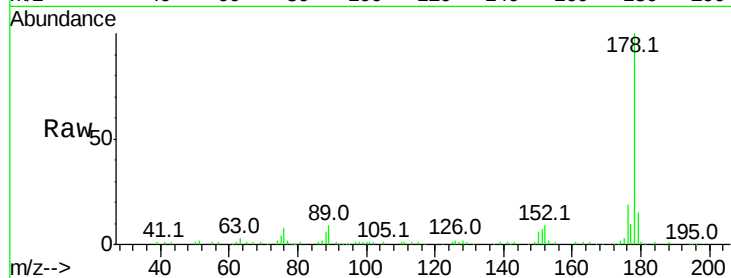




#71  
 Anthracene  
 Concen: 4.44 ng  
 RT: 11.31 min Scan# 1593  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

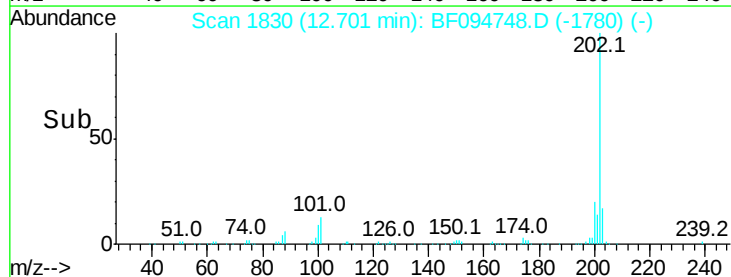
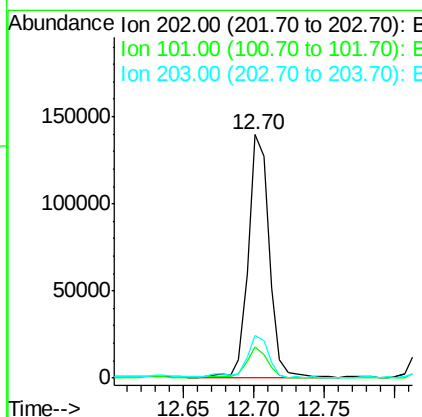
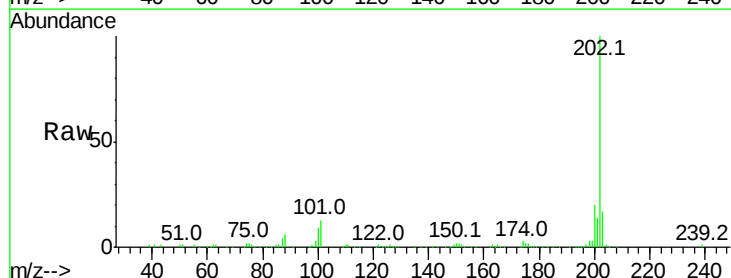
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-6B

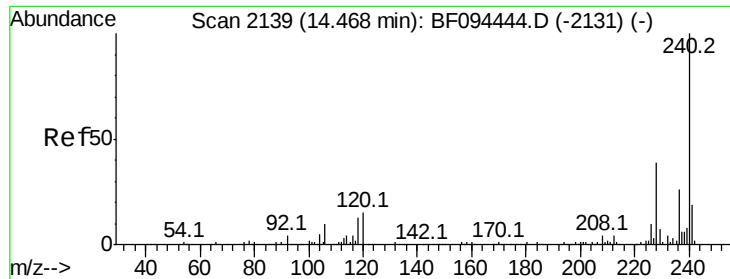
Tot Ion:178 Resp: 83471  
 Ion Ratio Lower Upper  
 178 100  
 176 18.6 15.8 23.8  
 179 15.3 12.7 19.1



#74  
 Fluoranthene  
 Concen: 7.62 ng  
 RT: 12.70 min Scan# 1830  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

Tgt Ion:202 Resp: 143683  
 Ion Ratio Lower Upper  
 202 100  
 101 13.0 0.0 33.2  
 203 17.3 0.0 38.1

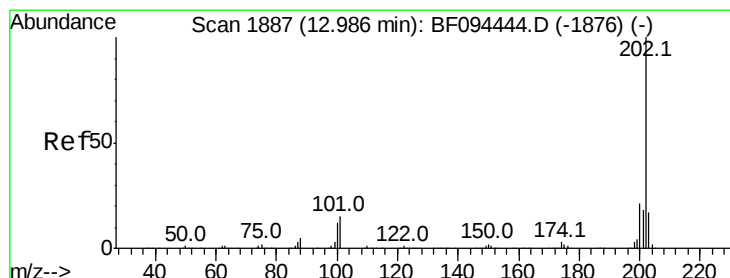
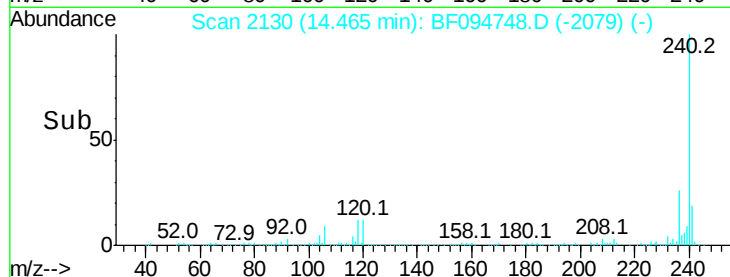
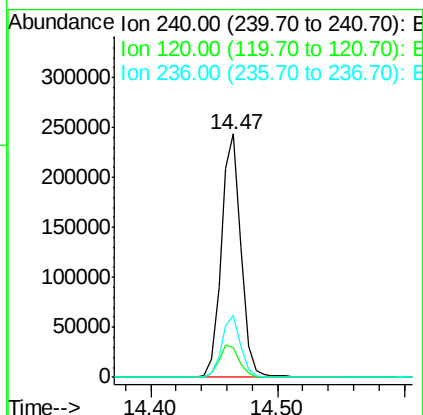
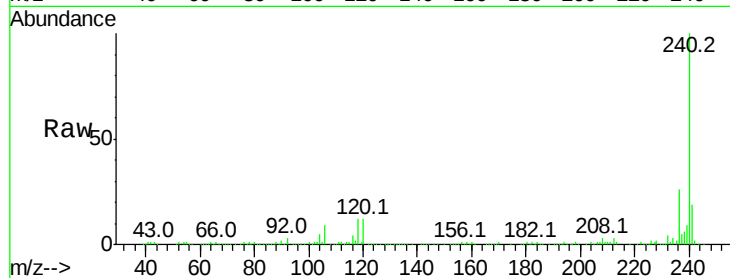




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.47 min Scan# 2130  
 Delta R.T. -0.00 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

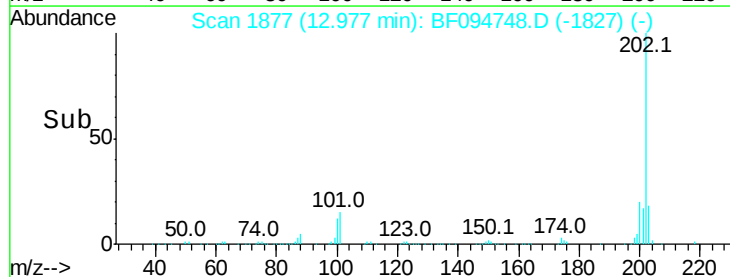
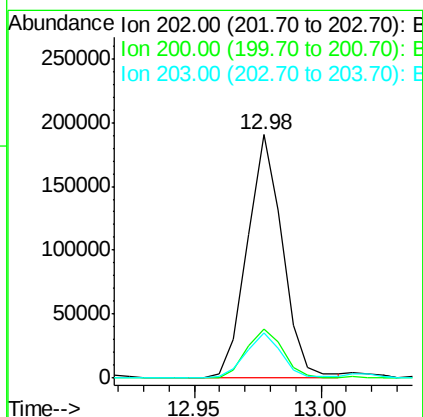
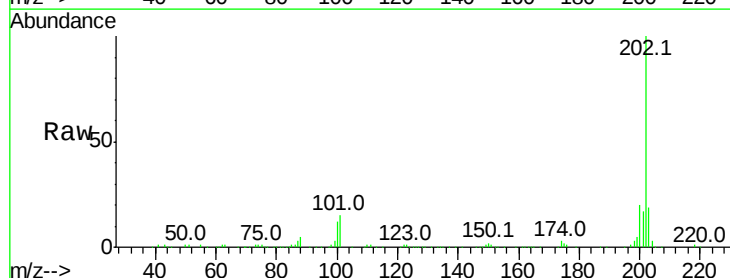
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-6B

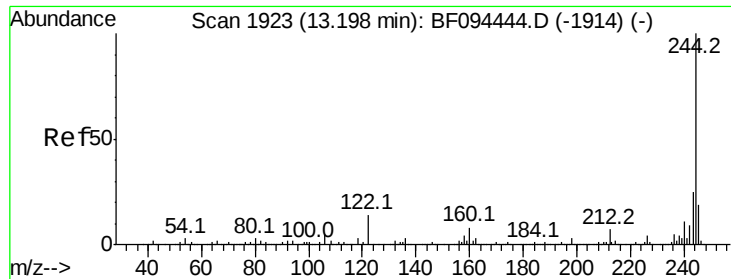
Tot Ion:240 Resp: 262112  
 Ion Ratio Lower Upper  
 240 100  
 120 12.4 5.8 8.8#  
 236 25.6 20.5 30.7



#77  
 Pyrene  
 Concen: 10.02 ng  
 RT: 12.98 min Scan# 1877  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

Tgt Ion:202 Resp: 183576  
 Ion Ratio Lower Upper  
 202 100  
 200 20.2 17.6 26.4  
 203 18.6 14.4 21.6

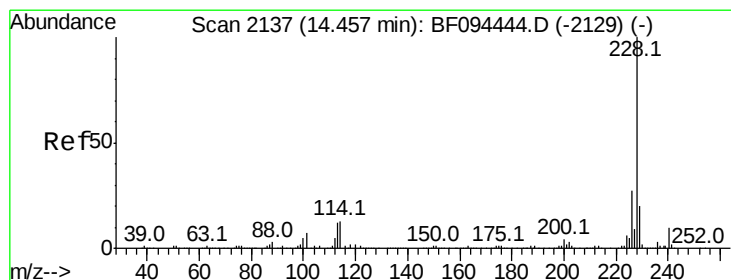
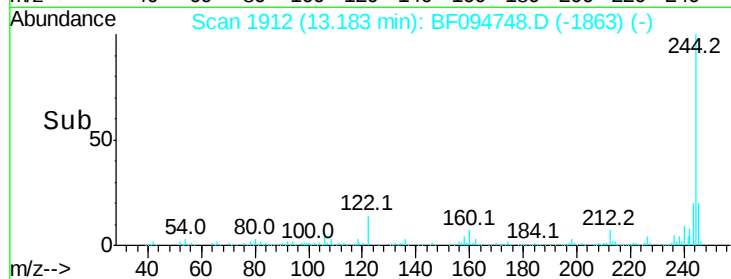
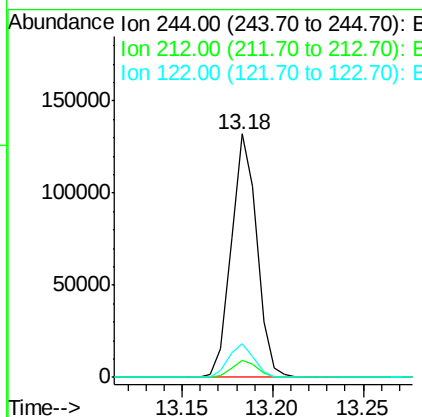
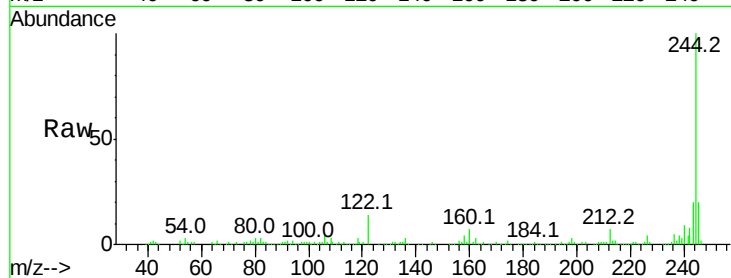




#78  
 Terphenyl-d14  
 Concen: 13.21 ng  
 RT: 13.18 min Scan# 1912  
 Delta R.T. -0.01 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

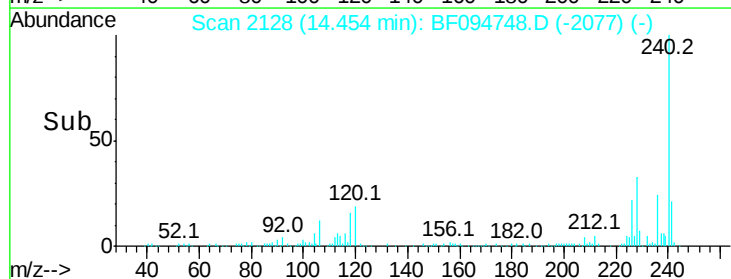
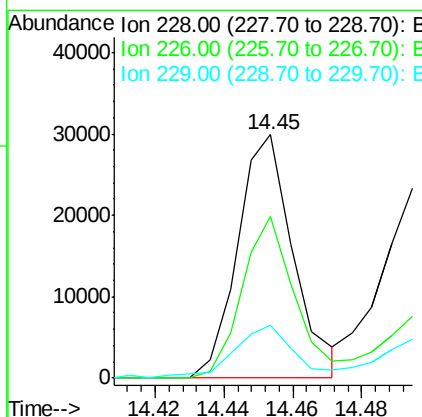
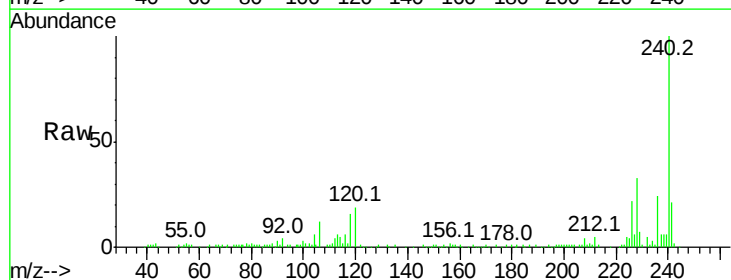
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-6B

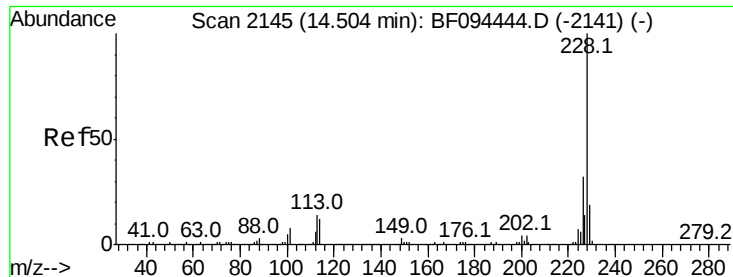
Tot Ion:244 Resp: 129506  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.0 9.0  
 122 13.8 10.3 15.5



#80  
 Benzo(a)anthracene  
 Concen: 2.22 ng m  
 RT: 14.45 min Scan# 2128  
 Delta R.T. -0.00 min  
 Lab File: BF094748.D  
 Acq: 1 May 2017 13:47

Tgt Ion:228 Resp: 33811  
 Ion Ratio Lower Upper  
 228 100  
 226 66.2 22.6 33.8#  
 229 21.5 16.3 24.5





#82

Chrysene

Concen: 2.09 ng

RT: 14.49 min Scan# 2135

Delta R.T. -0.01 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA\_F

ClientSampleId :

MW-6B

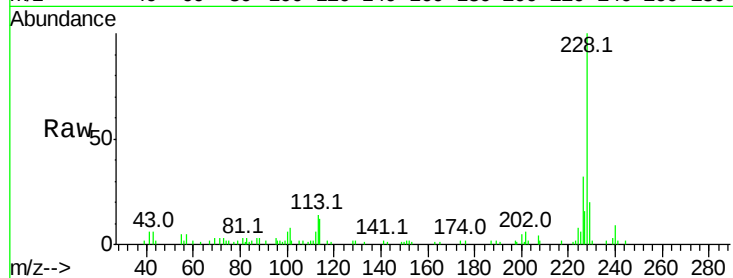
Tot Ion:228 Resp: 29073

Ion Ratio Lower Upper

228 100

226 32.4 24.9 37.3

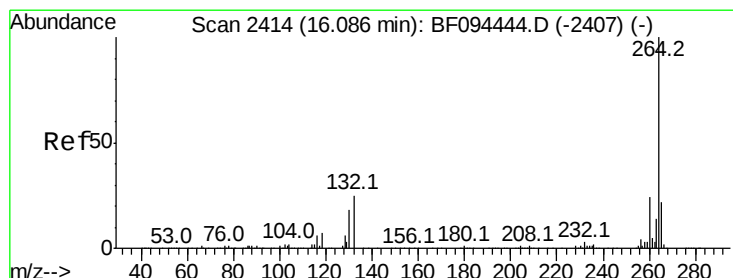
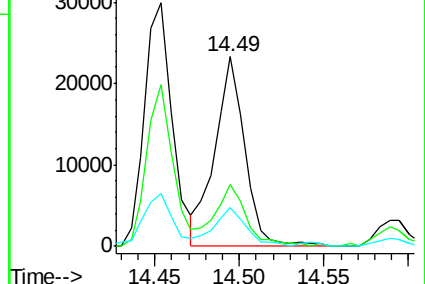
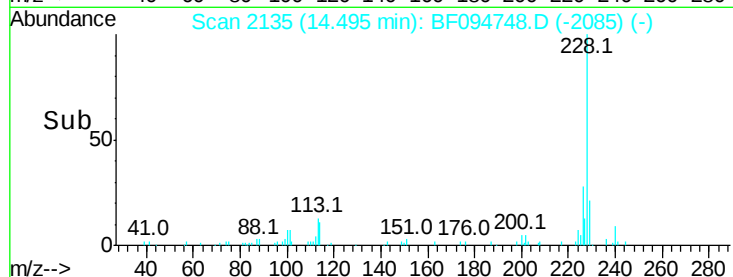
229 20.1 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.09 min Scan# 2406

Delta R.T. 0.00 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

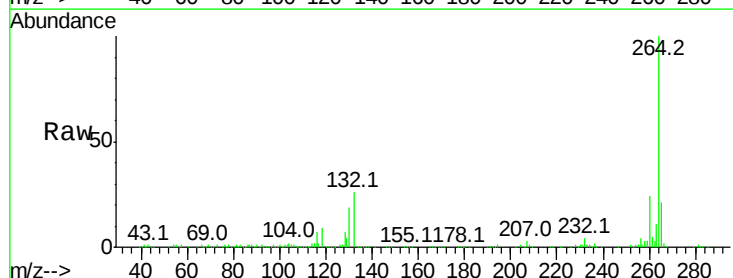
Tgt Ion:264 Resp: 191050

Ion Ratio Lower Upper

264 100

260 23.5 19.5 29.3

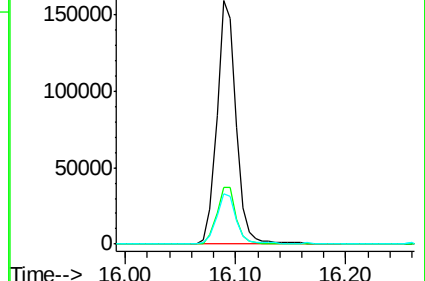
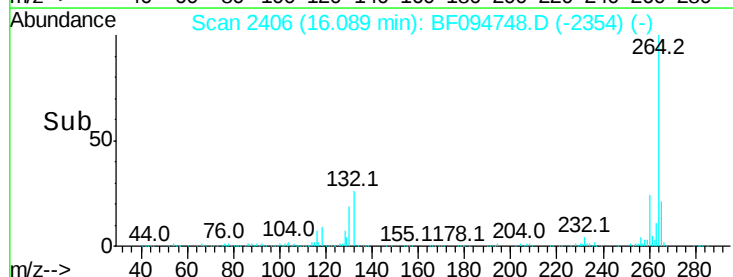
265 20.7 17.2 25.8

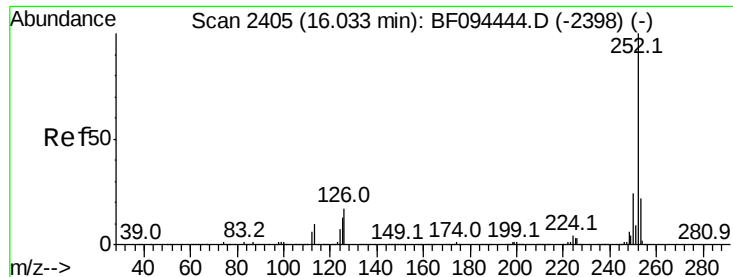


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#89

Benzo(a)pyrene

Concen: 2.12 ng

RT: 16.04 min Scan# 2397

Delta R.T. 0.00 min

Lab File: BF094748.D

Acq: 1 May 2017 13:47

Instrument :

BNA\_F

ClientSampleId :

MW-6B

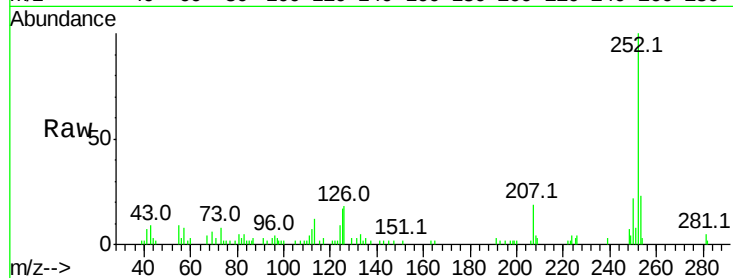
Tot Ion:252 Resp: 23029

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

125 17.0 11.0 16.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

