

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042216\  
 Data File : BF086393.D  
 Acq On : 23 Apr 2016 16:31  
 Operator : UM/SJ  
 Sample : H2640-05  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B13(0-5)-C

Quant Time: Apr 25 00:53:21 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF042216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Apr 23 00:24:02 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 184967   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.12  | 136  | 719368   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.88  | 164  | 300138   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.36 | 188  | 482924   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.00 | 240  | 372727   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.41 | 264  | 275147   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.45  | 112  | 1205347  | 112.54 | ng    | 0.02     |
| 7) Phenol-d6                | 6.48  | 99   | 1466616  | 100.72 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 962657   | 79.27  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 228152   | 83.97  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.21  | 172  | 1608205  | 91.44  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.94 | 244  | 1018222  | 67.87  | ng    | 0.00     |

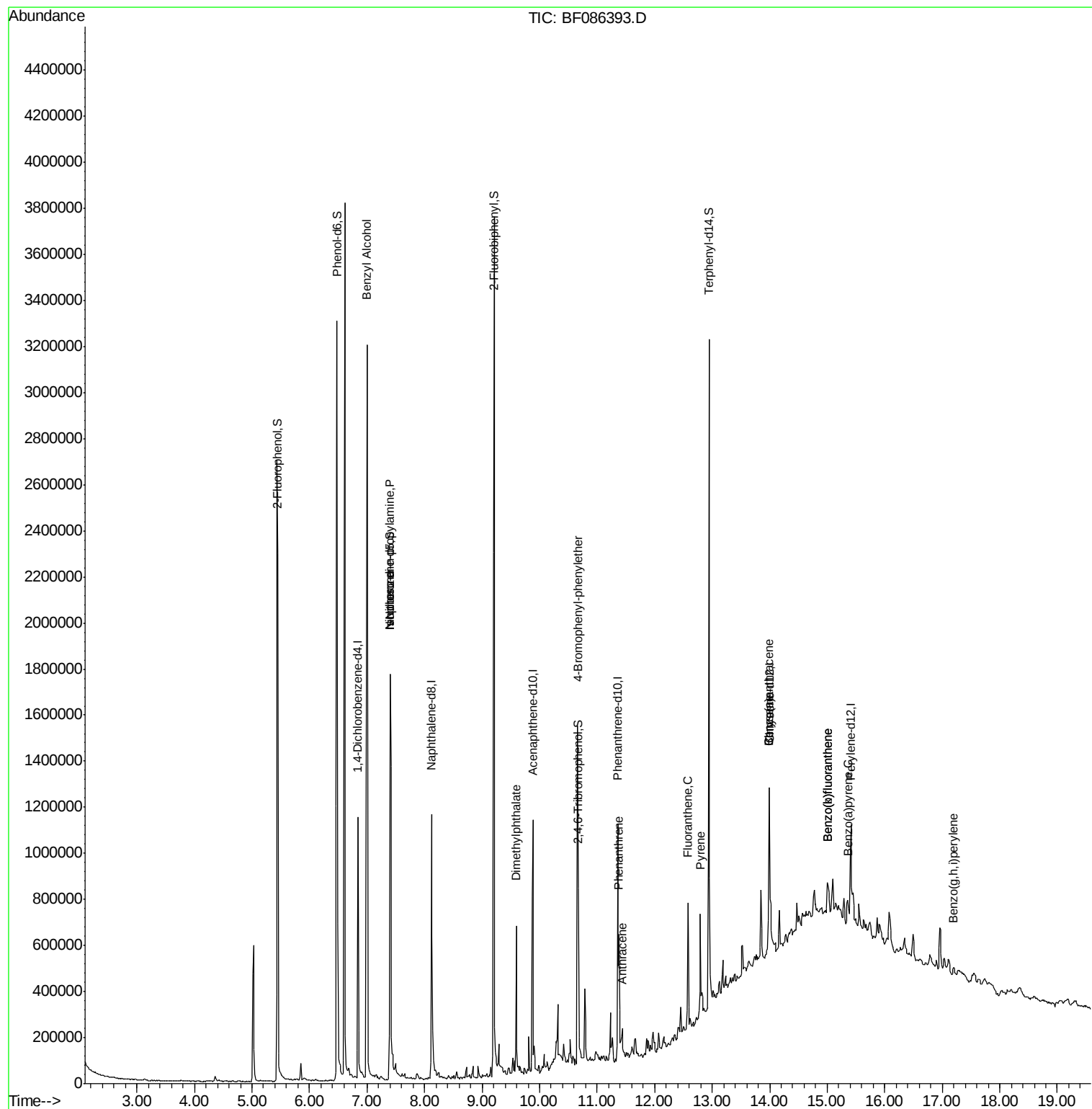
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 15) Benzyl Alcohol             | 7.00  | 79   | 18551    | 2.15  | ng    | # 38   |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 126191   | 14.50 | ng    | # 83   |
| 25) Isophorone                 | 7.40  | 82   | 968466   | 40.69 | ng    | # 68   |
| 49) Dimethylphthalate          | 9.60  | 163  | 257057   | 11.86 | ng    | 99     |
| 66) 4-Bromophenyl-phenylether  | 10.66 | 248  | 13873    | 2.93  | ng    | # 1    |
| 70) Phenanthrene               | 11.38 | 178  | 207758   | 8.56  | ng    | 99     |
| 71) Anthracene                 | 11.44 | 178  | 89961    | 3.24  | ng    | 99     |
| 74) Fluoranthene               | 12.58 | 202  | 224603   | 8.58  | ng    | 97     |
| 77) Pyrene                     | 12.80 | 202  | 208557   | 8.02  | ng    | 99     |
| 80) Benzo(a)anthracene         | 13.99 | 228  | 119587   | 6.18  | ng    | 98     |
| 82) Chrysene                   | 13.99 | 228  | 119587   | 5.49  | ng    | 94     |
| 87) Benzo(b)fluoranthene       | 15.01 | 252  | 120917   | 8.01  | ng    | # 86   |
| 88) Benzo(k)fluoranthene       | 15.01 | 252  | 120917   | 8.16  | ng    | # 84   |
| 89) Benzo(a)pyrene             | 15.36 | 252  | 65100    | 4.37  | ng    | # 81   |
| 91) Benzo(g,h,i)perylene       | 17.20 | 276  | 34289    | 2.70  | ng    | 93     |

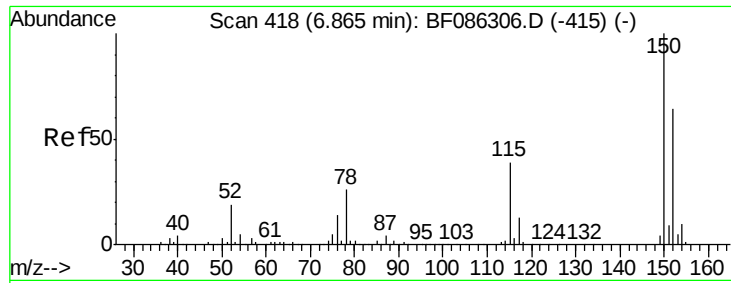
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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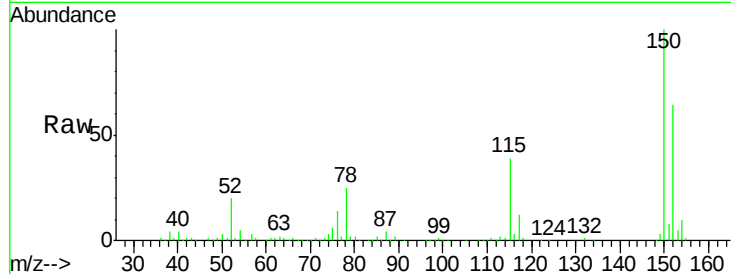


#1

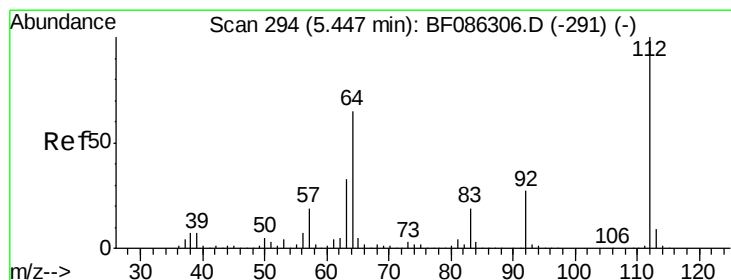
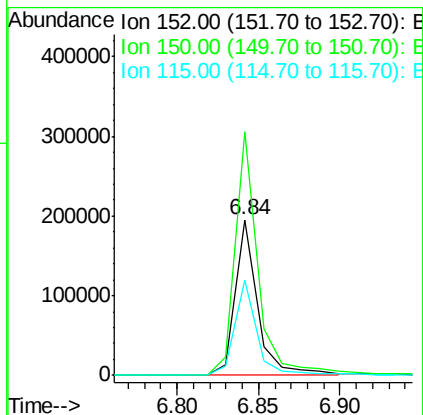
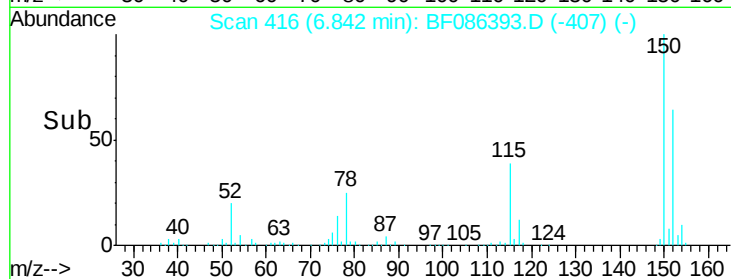
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.84 min Scan# 416  
Delta R.T. -0.00 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

Instrument :  
BNA\_F  
ClientSampleId :  
WPG-B13(0-5)-C

Tgt Ion:152 Resp: 184967  
Ion Ratio Lower Upper  
152 100  
150 156.2 125.8 188.6  
115 61.2 51.5 77.3



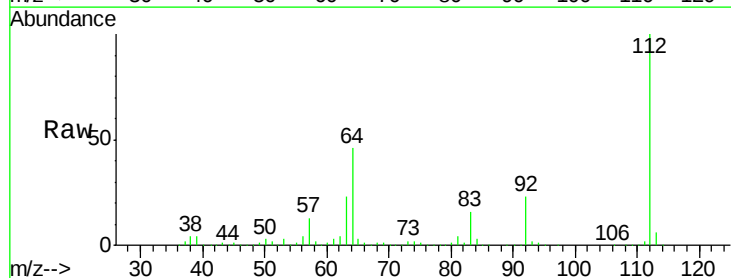
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



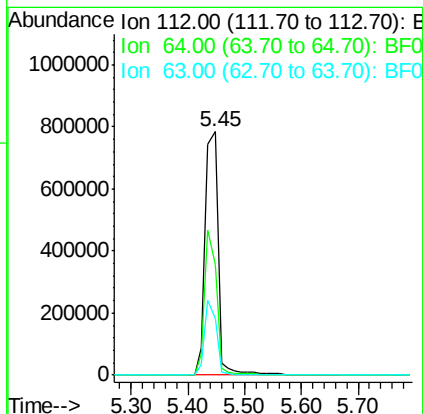
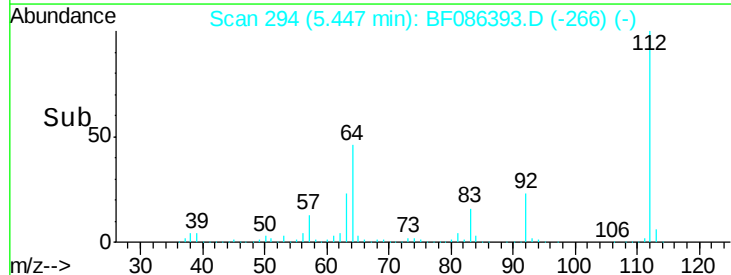
#5

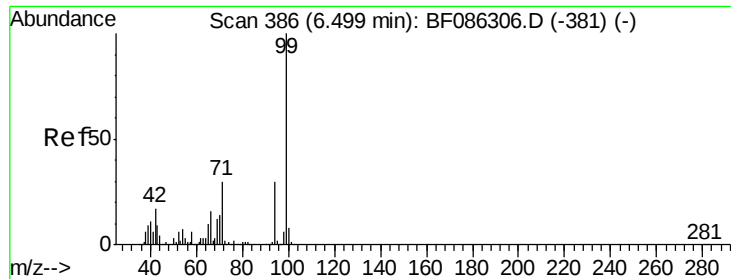
2-Fluorophenol  
Concen: 112.54 ng  
RT: 5.45 min Scan# 294  
Delta R.T. 0.02 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

Tgt Ion:112 Resp: 1205347  
Ion Ratio Lower Upper  
112 100  
64 45.5 52.1 78.1#  
63 23.1 25.7 38.5#



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: 100.72 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.00 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

Instrument :

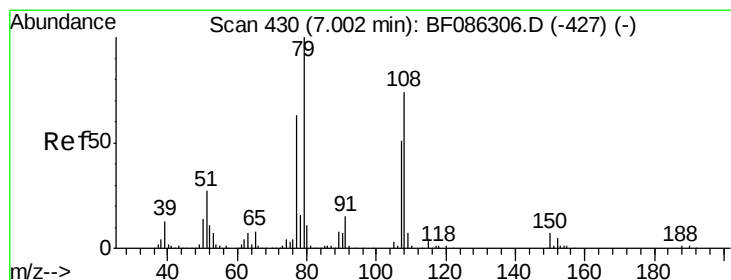
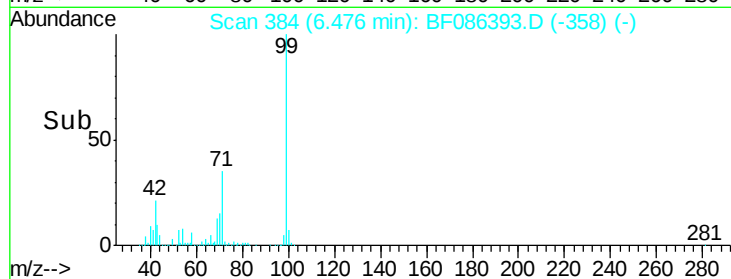
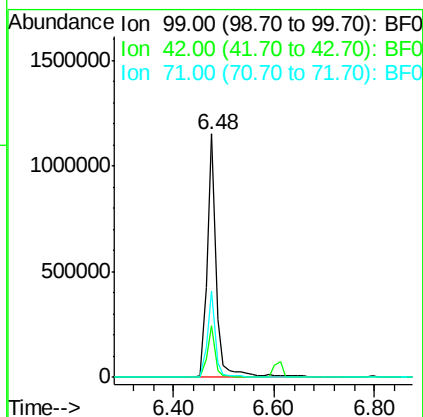
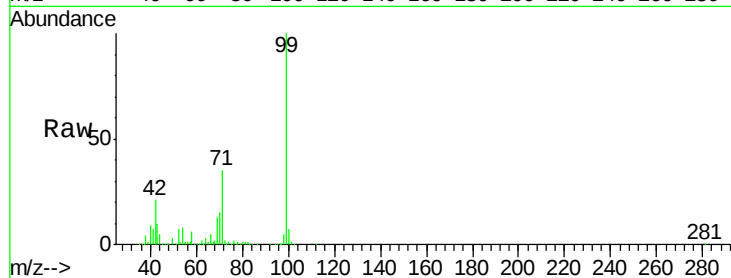
BNA\_F

ClientSampleId :

WPG-B13(0-5)-C

Tgt Ion: 99 Resp: 1466616

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.0  | 13.6  | 20.4# |
| 71  | 35.1  | 24.6  | 36.8  |



#15

Benzyl Alcohol

Concen: 2.15 ng

RT: 7.00 min Scan# 430

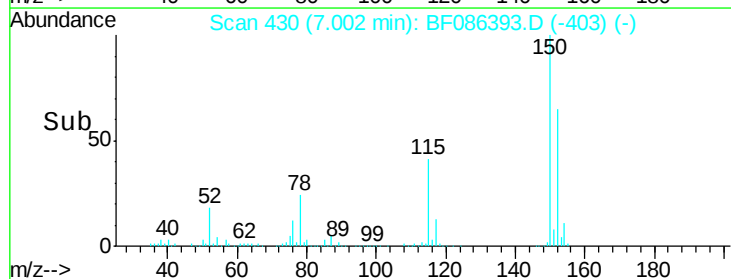
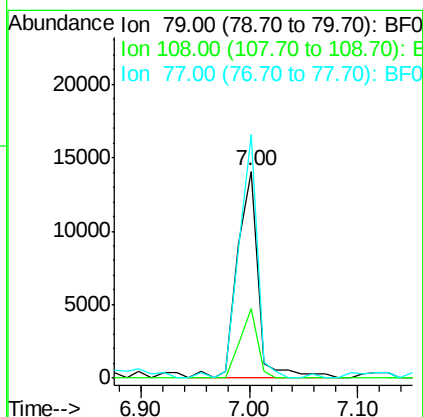
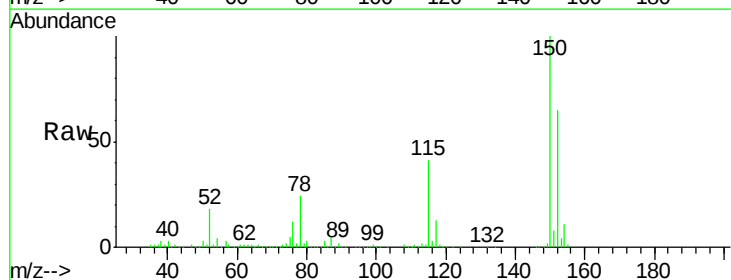
Delta R.T. 0.01 min

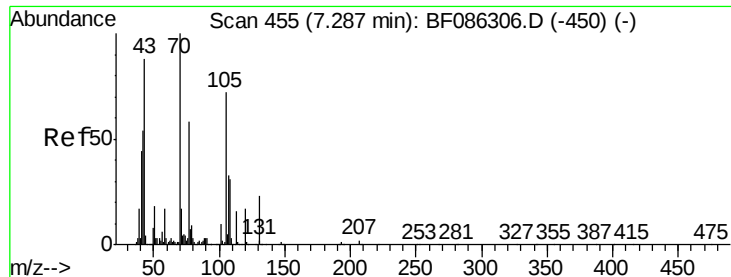
Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

Tgt Ion: 79 Resp: 18551

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 79  | 100   |       |        |
| 108 | 33.6  | 68.4  | 102.6# |
| 77  | 117.7 | 50.6  | 76.0#  |

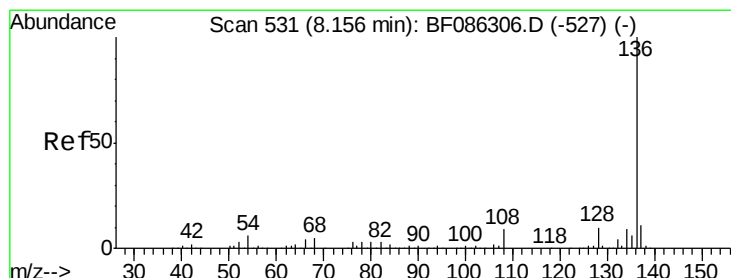
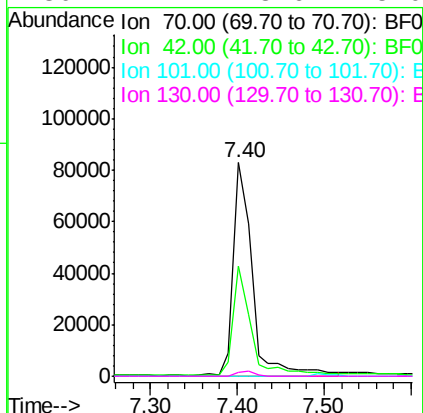
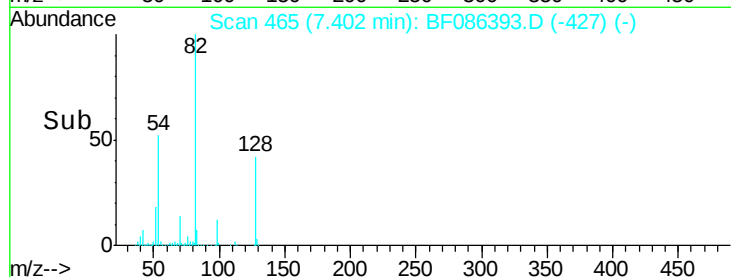
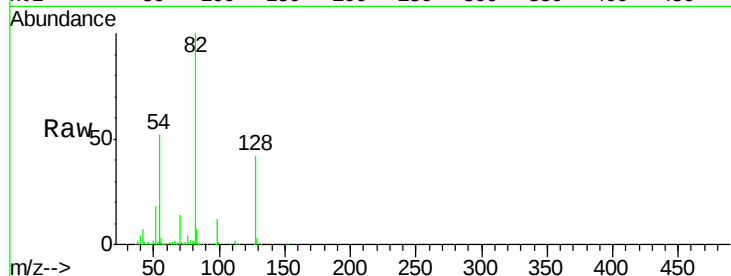




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.50 ng  
RT: 7.40 min Scan# 465  
Delta R.T. 0.14 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

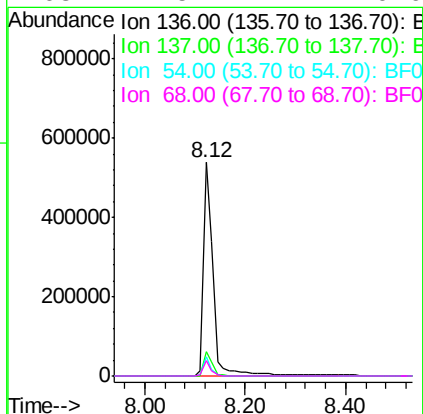
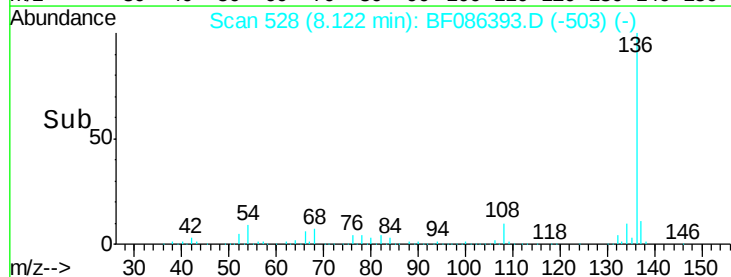
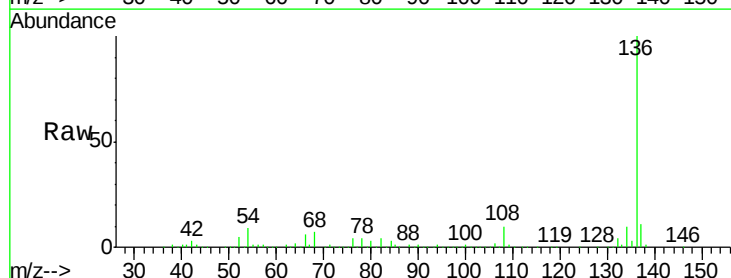
Instrument :  
BNA\_F  
ClientSampleId :  
WPG-B13(0-5)-C

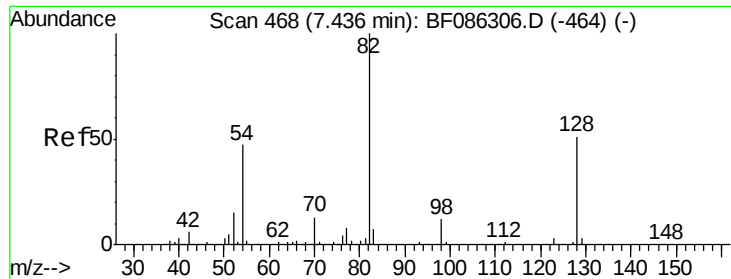
Tgt Ion: 70 Resp: 126191  
Ion Ratio Lower Upper  
70 100  
42 51.3 43.1 64.7  
101 0.0 8.1 12.1#  
130 2.1 18.6 28.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.12 min Scan# 528  
Delta R.T. -0.01 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

Tgt Ion: 136 Resp: 719368  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.8 13.2  
54 9.2 5.0 7.4#  
68 7.5 4.4 6.6#

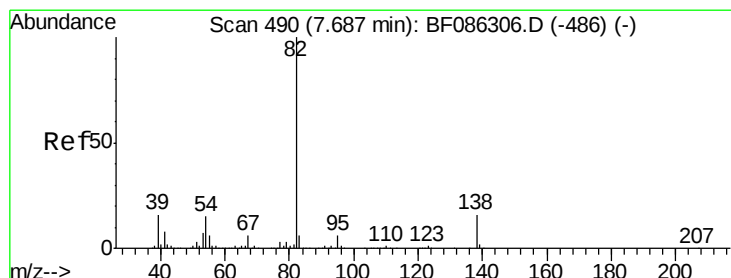
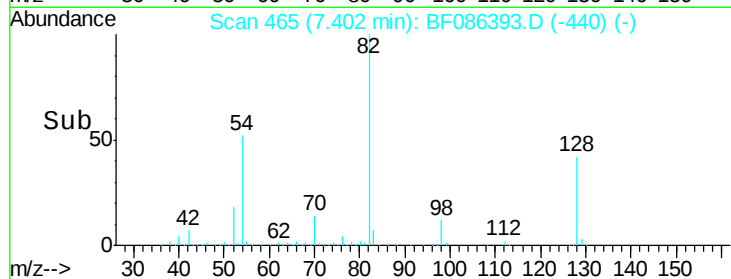
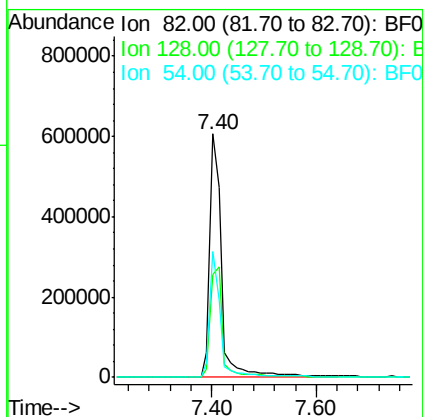
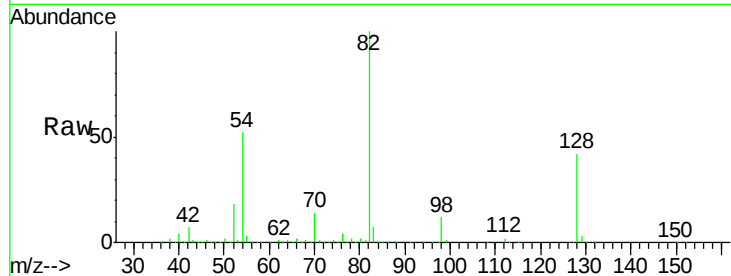




#23  
Nitrobenzene-d5  
Concen: 79.27 ng  
RT: 7.40 min Scan# 465  
Delta R.T. -0.01 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

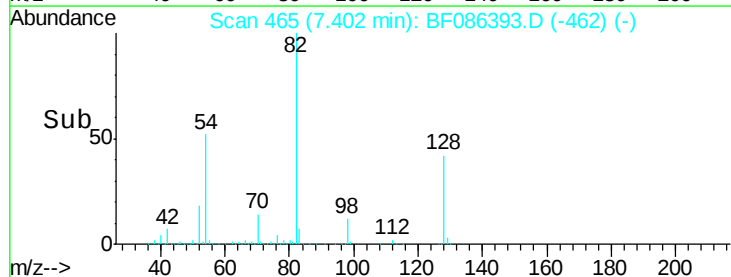
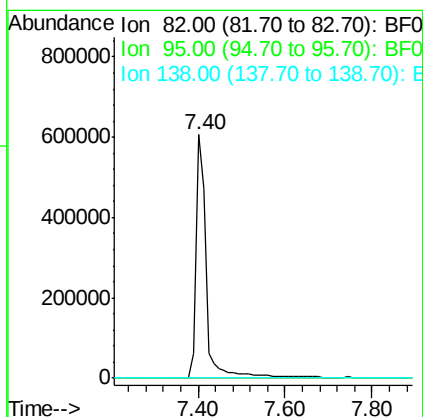
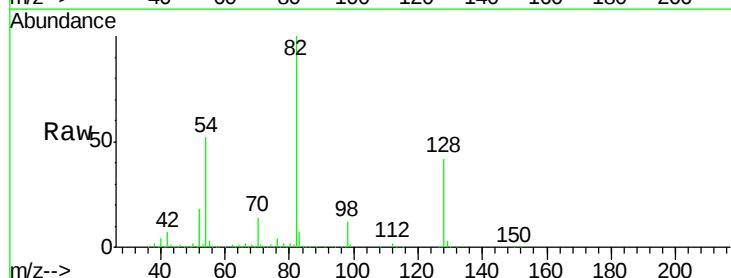
Instrument :  
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WPG-B13(0-5)-C

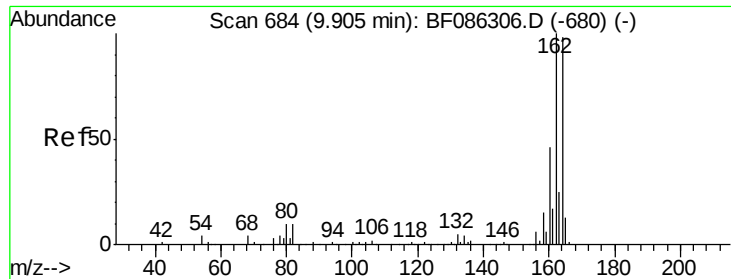
Tgt Ion: 82 Resp: 962657  
Ion Ratio Lower Upper  
82 100  
128 42.1 40.6 61.0  
54 51.6 38.1 57.1



#25  
Isophorone  
Concen: 40.69 ng  
RT: 7.40 min Scan# 465  
Delta R.T. -0.26 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

Tgt Ion: 82 Resp: 968466  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.1 7.7#  
138 0.0 12.4 18.6#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.00 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

Instrument :

BNA\_F

ClientSampleId :

WPG-B13(0-5)-C

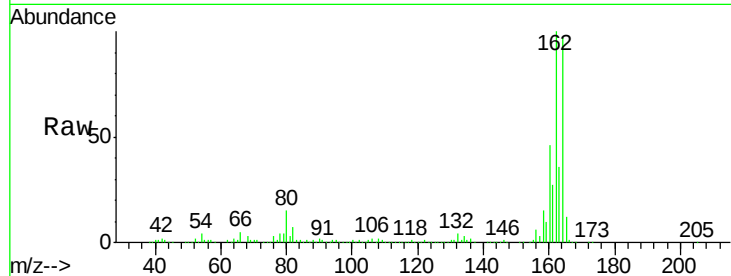
Tgt Ion:164 Resp: 300138

Ion Ratio Lower Upper

164 100

162 103.2 82.8 124.2

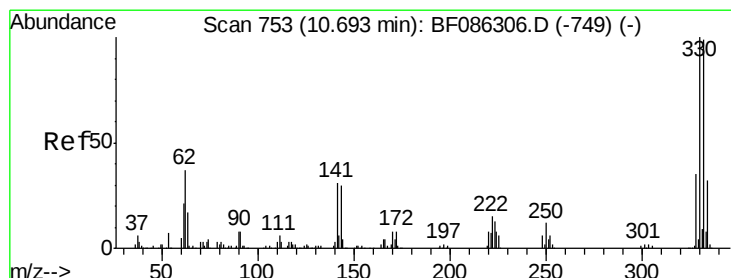
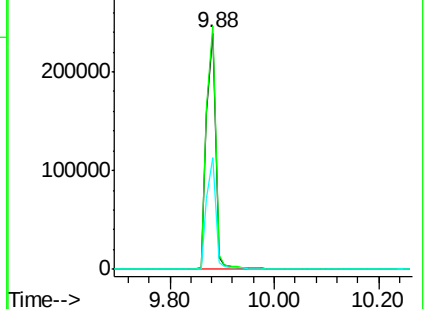
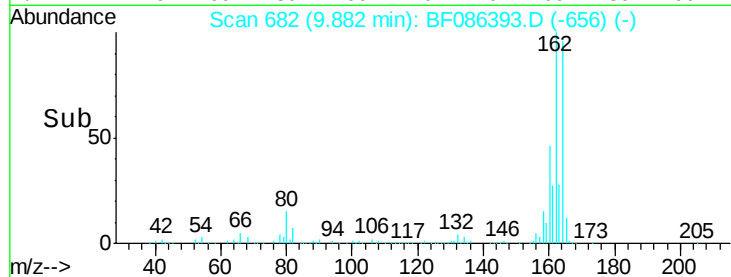
160 47.4 36.9 55.3



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: 83.97 ng

RT: 10.67 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

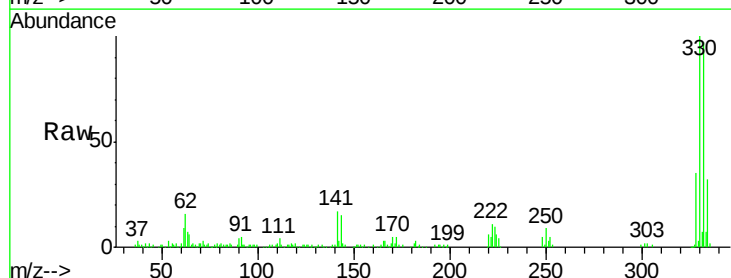
Tgt Ion:330 Resp: 228152

Ion Ratio Lower Upper

330 100

332 95.6 79.0 118.4

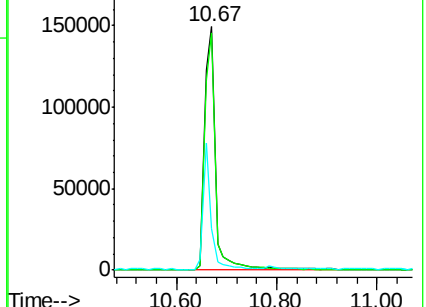
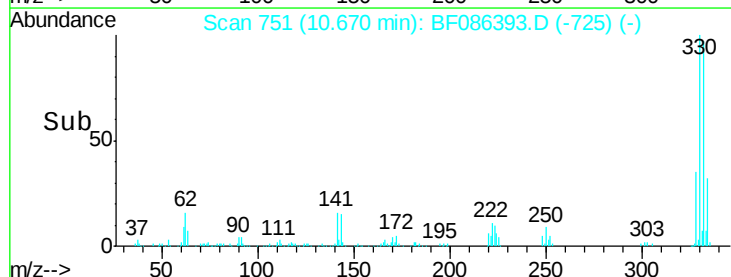
141 36.4 31.2 46.8

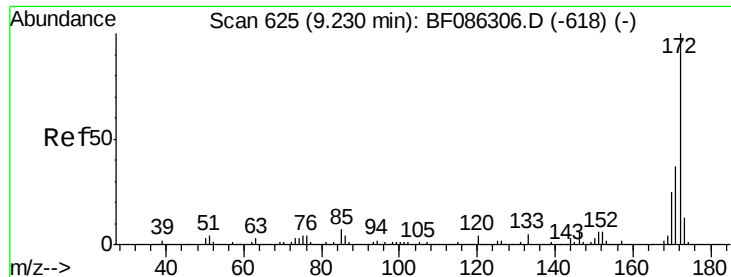


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

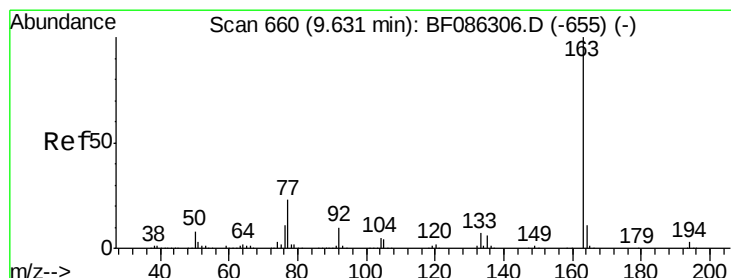
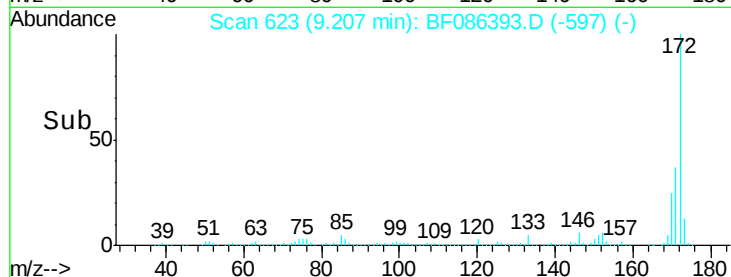
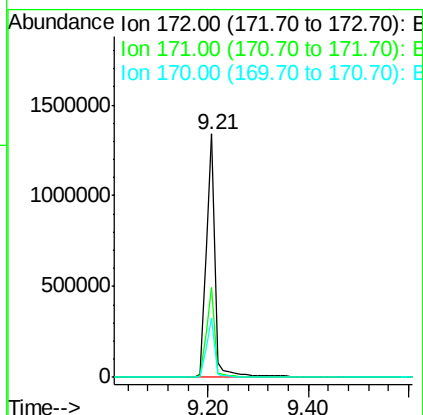
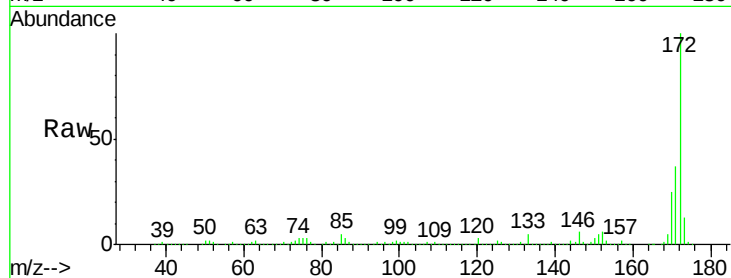




#44  
 2-Fluorobiphenyl  
 Concen: 91.44 ng  
 RT: 9.21 min Scan# 623  
 Delta R.T. -0.00 min  
 Lab File: BF086393.D  
 Acq: 23 Apr 2016 16:31

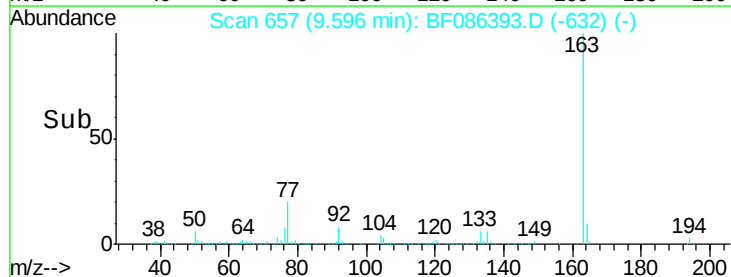
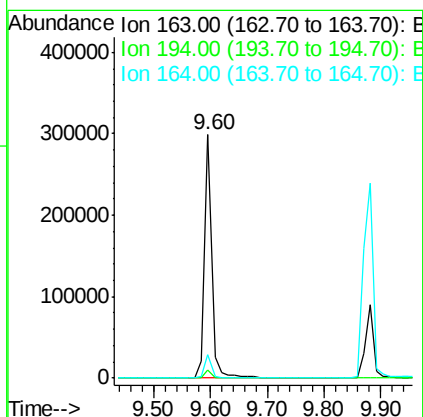
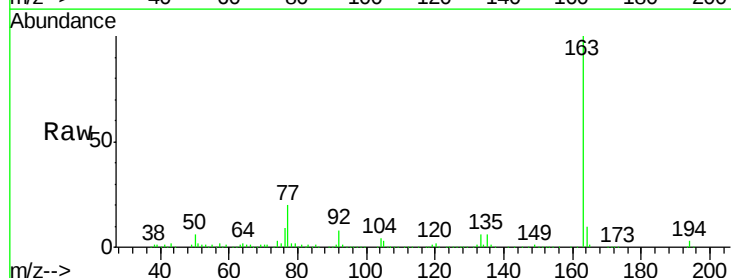
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B13(0-5)-C

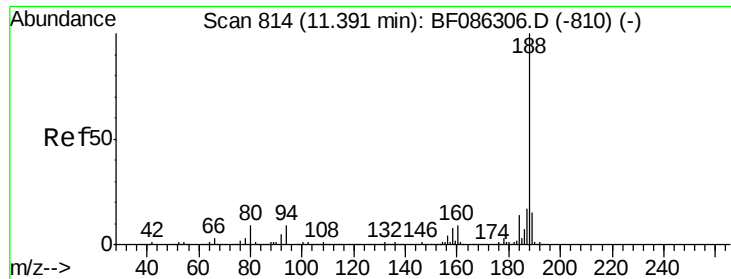
Tgt Ion:172 Resp: 1608205  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.0 43.6  
 170 24.5 19.8 29.8



#49  
 Dimethylphthalate  
 Concen: 11.86 ng  
 RT: 9.60 min Scan# 657  
 Delta R.T. -0.01 min  
 Lab File: BF086393.D  
 Acq: 23 Apr 2016 16:31

Tgt Ion:163 Resp: 257057  
 Ion Ratio Lower Upper  
 163 100  
 194 3.3 2.6 4.0  
 164 9.6 8.2 12.4

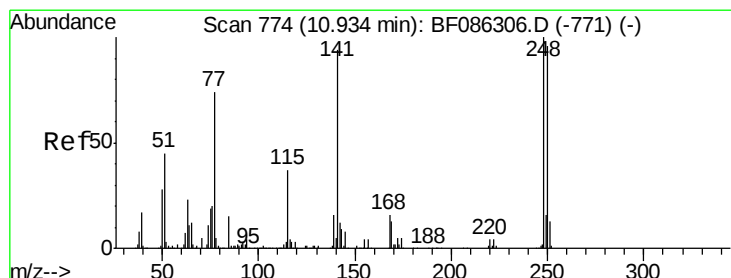
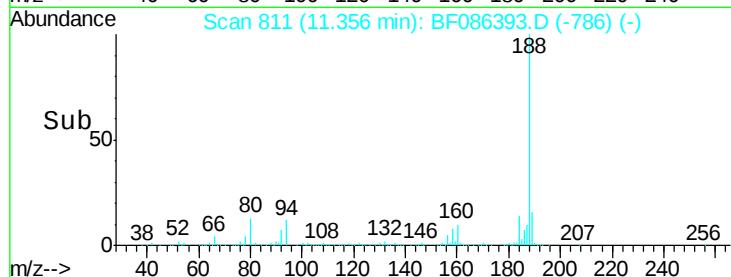
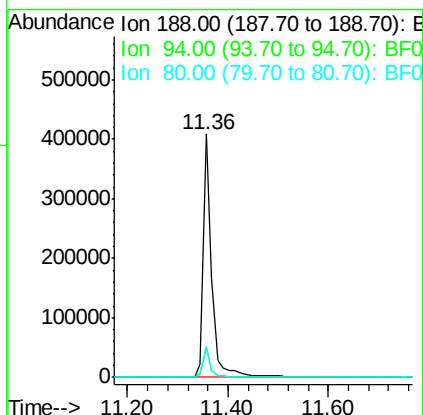
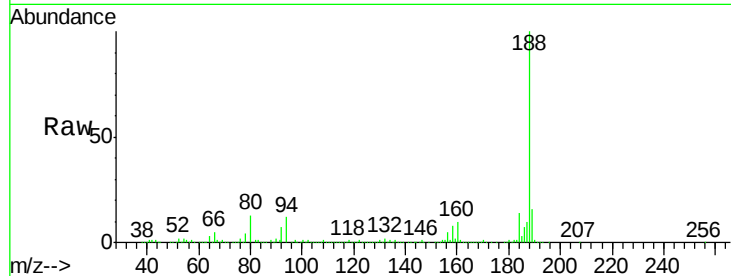




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.36 min Scan# 811  
 Delta R.T. -0.01 min  
 Lab File: BF086393.D  
 Acq: 23 Apr 2016 16:31

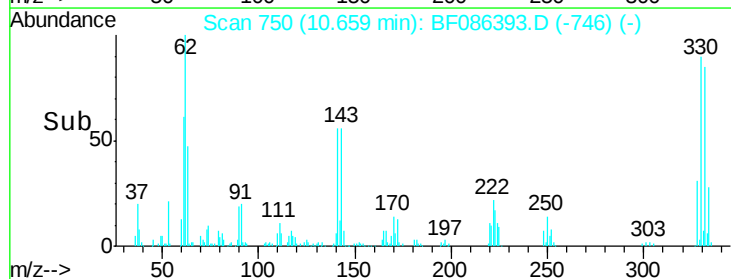
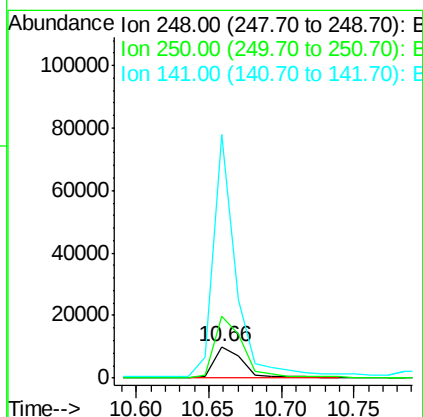
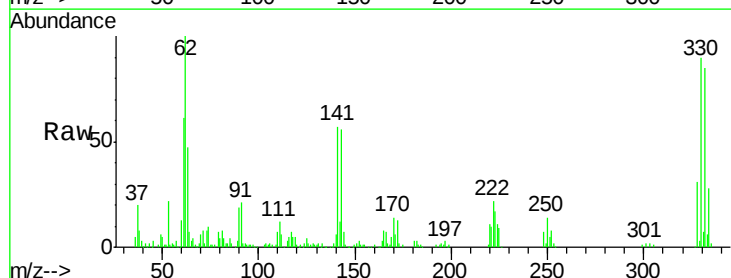
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WPG-B13(0-5)-C

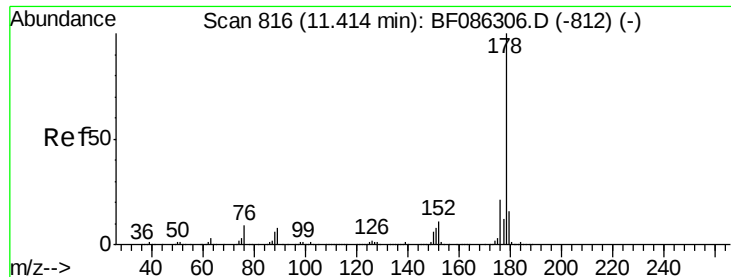
Tgt Ion:188 Resp: 482924  
 Ion Ratio Lower Upper  
 188 100  
 94 12.1 6.8 10.2#  
 80 13.0 7.1 10.7#



#66  
 4-Bromophenyl-phenylether  
 Concen: 2.93 ng  
 RT: 10.66 min Scan# 750  
 Delta R.T. -0.25 min  
 Lab File: BF086393.D  
 Acq: 23 Apr 2016 16:31

Tgt Ion:248 Resp: 13873  
 Ion Ratio Lower Upper  
 248 100  
 250 196.5 78.6 117.8#  
 141 769.6 76.0 114.0#

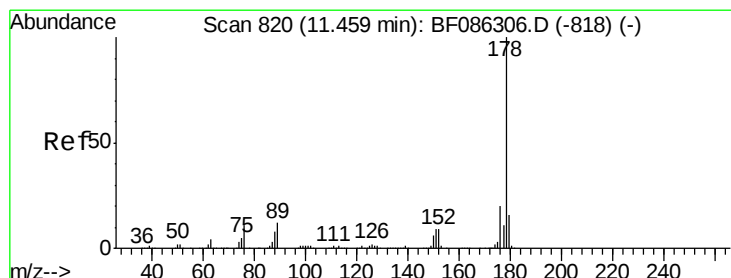
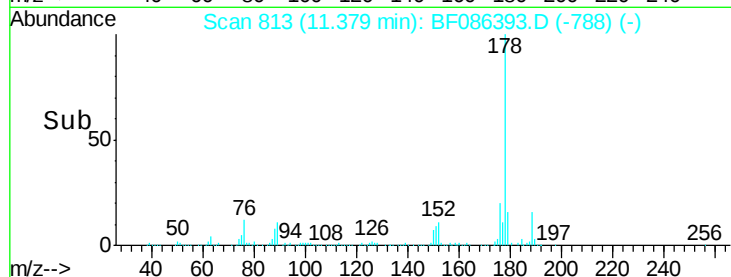
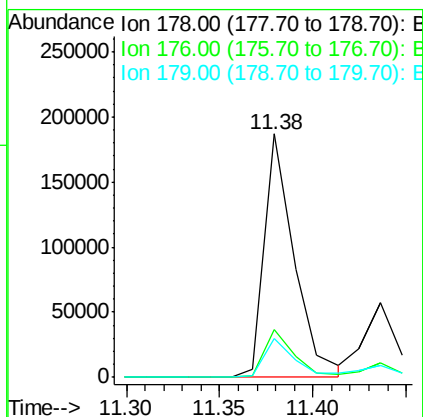
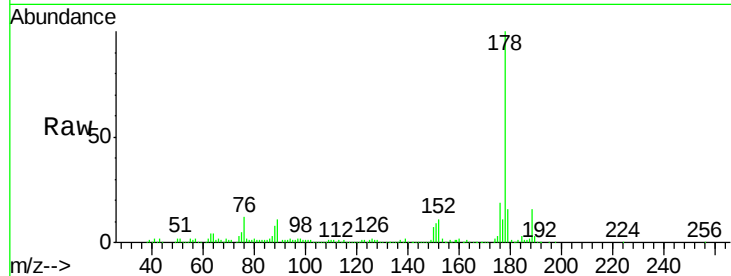




#70  
Phenanthrene  
Concen: 8.56 ng  
RT: 11.38 min Scan# 813  
Delta R.T. -0.01 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

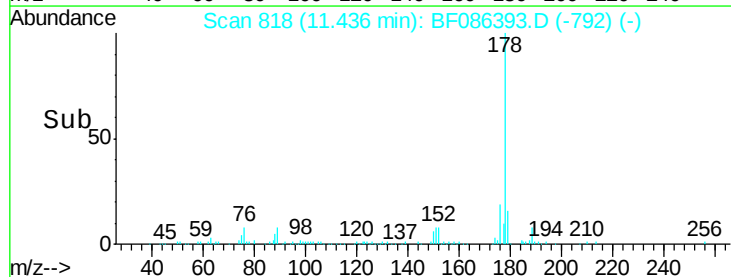
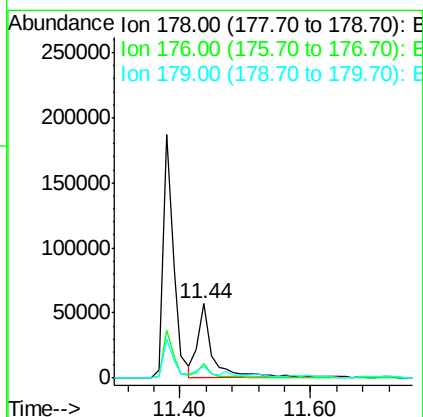
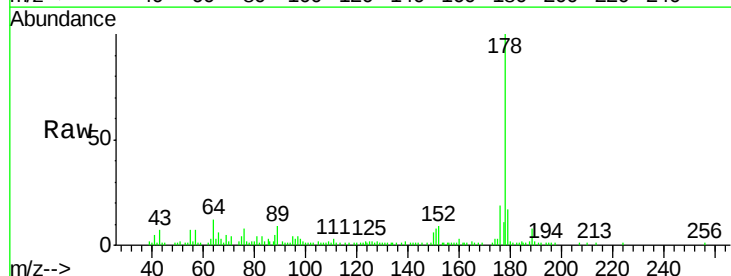
Instrument :  
BNA\_F  
ClientSampleId :  
WPG-B13(0-5)-C

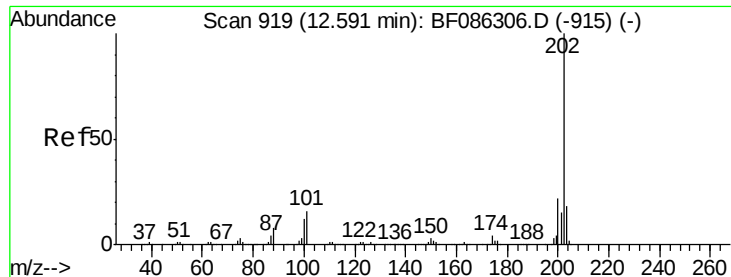
Tgt Ion:178 Resp: 207758  
Ion Ratio Lower Upper  
178 100  
176 19.5 16.0 24.0  
179 16.2 12.6 18.8



#71  
Anthracene  
Concen: 3.24 ng  
RT: 11.44 min Scan# 818  
Delta R.T. -0.00 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

Tgt Ion:178 Resp: 89961  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.6 23.4  
179 16.8 12.7 19.1





#74

Fluoranthene

Concen: 8.58 ng

RT: 12.58 min Scan# 918

Delta R.T. 0.01 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

Instrument :

BNA\_F

ClientSampleId :

WPG-B13(0-5)-C

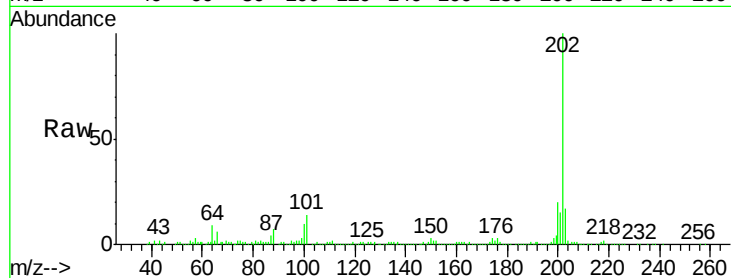
Tgt Ion:202 Resp: 224603

Ion Ratio Lower Upper

202 100

101 13.7 0.0 35.4

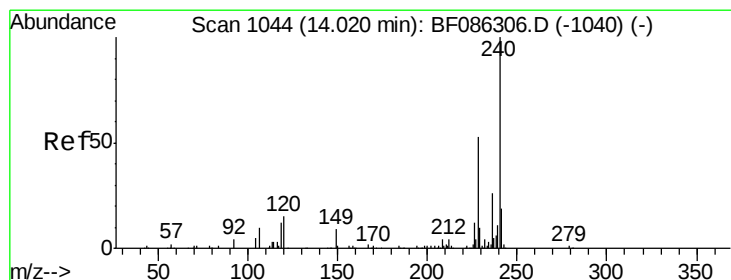
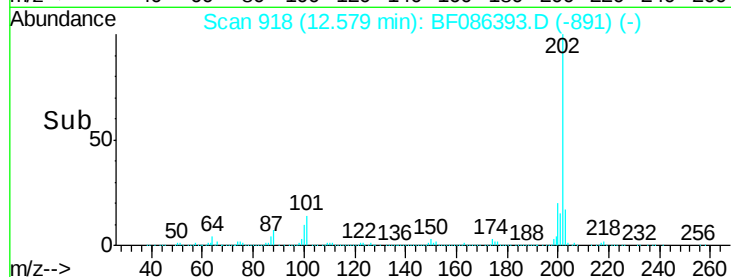
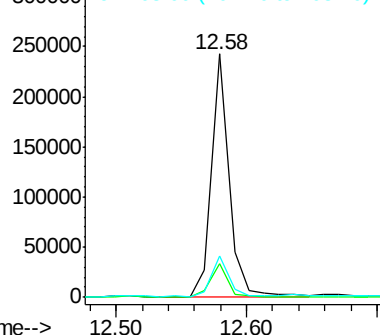
203 16.8 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

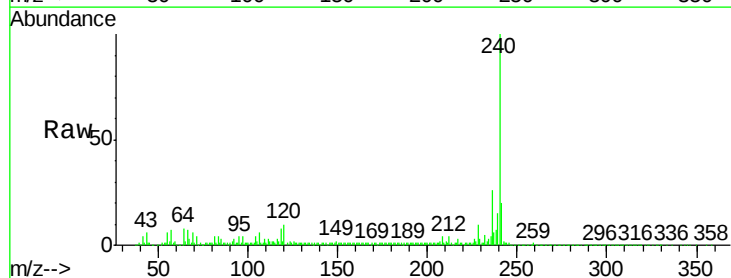
Tgt Ion:240 Resp: 372727

Ion Ratio Lower Upper

240 100

120 10.1 11.2 16.8#

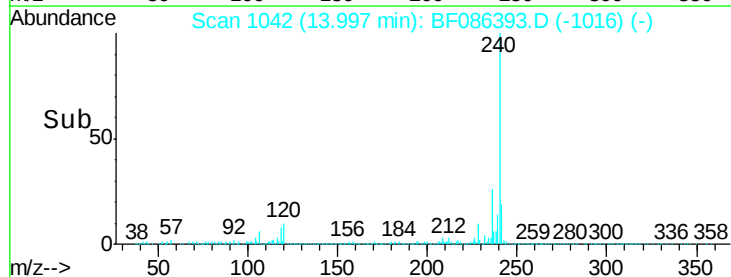
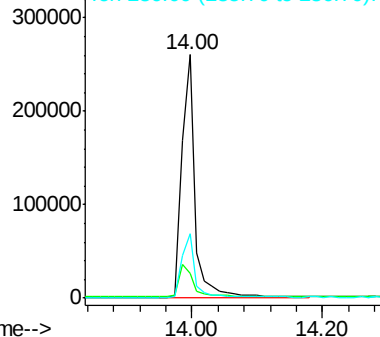
236 26.5 21.2 31.8

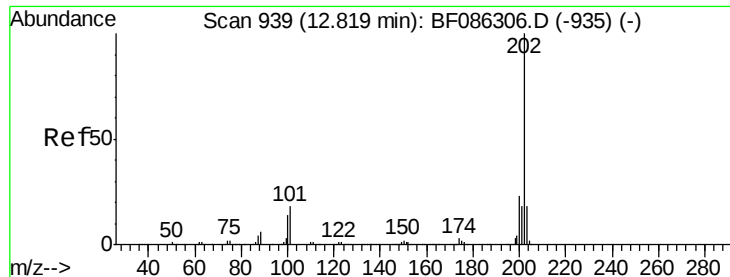


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 8.02 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.00 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

Instrument :

BNA\_F

ClientSampleId :

WPG-B13(0-5)-C

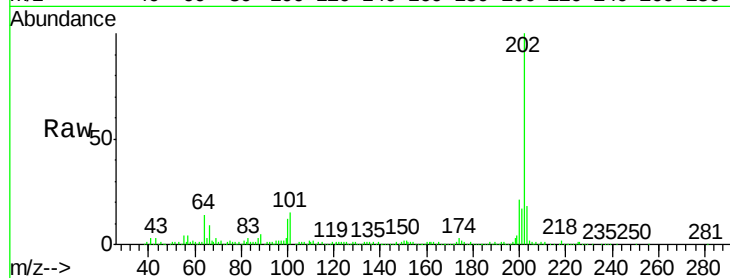
Tgt Ion:202 Resp: 208557

Ion Ratio Lower Upper

202 100

200 21.4 17.7 26.5

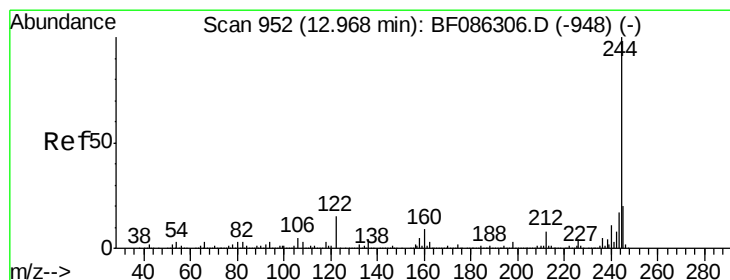
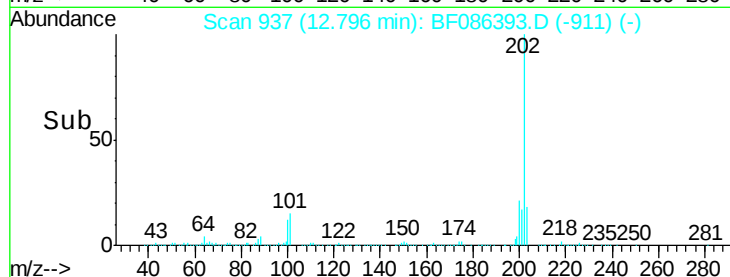
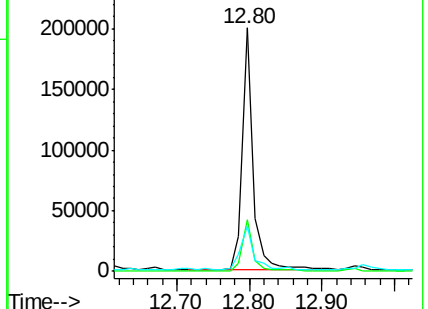
203 18.4 14.2 21.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 67.87 ng

RT: 12.94 min Scan# 950

Delta R.T. -0.00 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

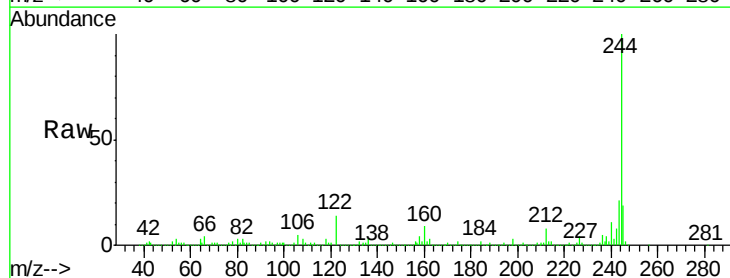
Tgt Ion:244 Resp: 1018222

Ion Ratio Lower Upper

244 100

212 7.8 6.2 9.2

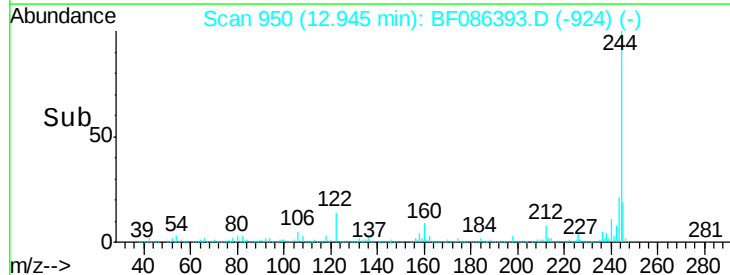
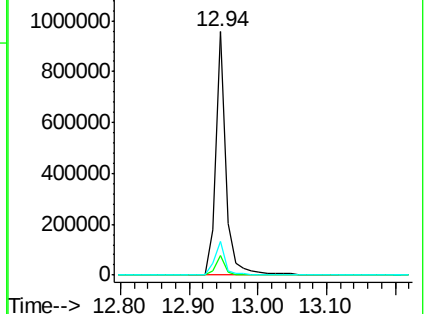
122 14.1 12.0 18.0

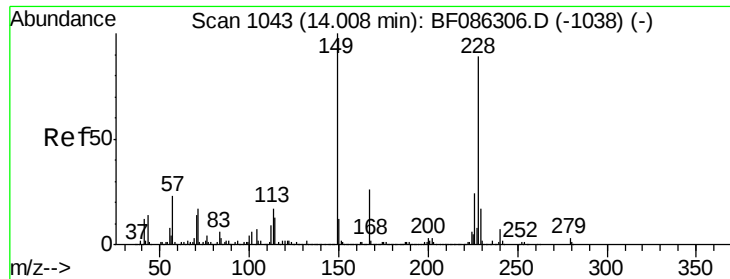


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 6.18 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

Instrument :

BNA\_F

ClientSampleId :

WPG-B13(0-5)-C

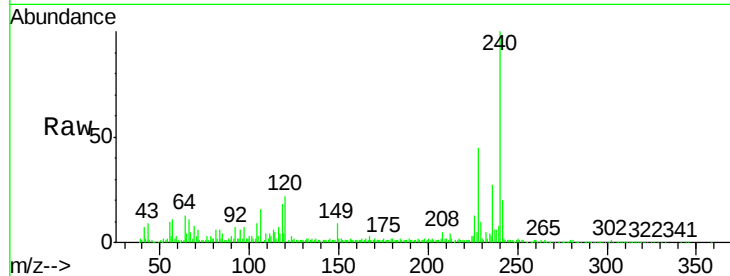
Tgt Ion:228 Resp: 119587

Ion Ratio Lower Upper

228 100

226 27.9 22.5 33.7

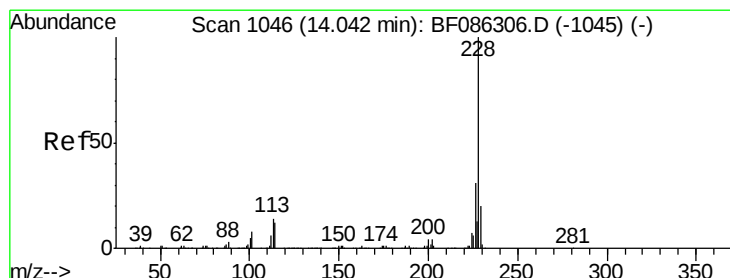
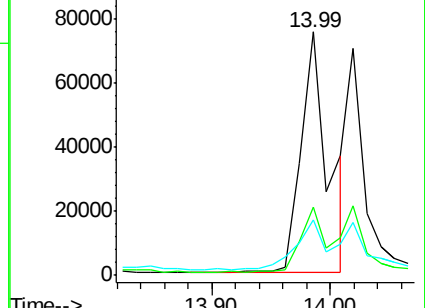
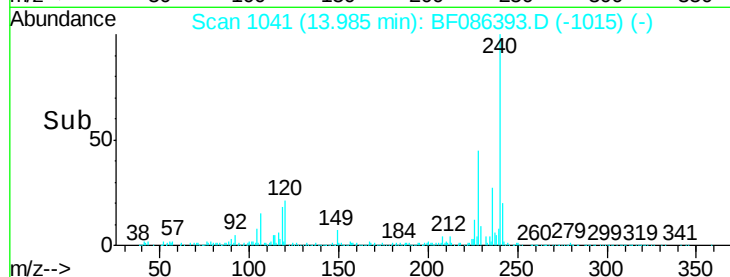
229 22.9 16.6 25.0



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



#82

Chrysene

Concen: 5.49 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.03 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

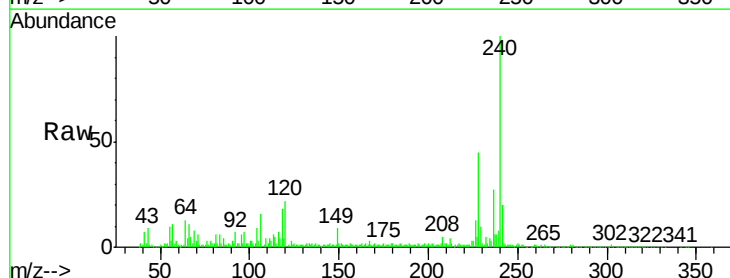
Tgt Ion:228 Resp: 119587

Ion Ratio Lower Upper

228 100

226 27.9 24.4 36.6

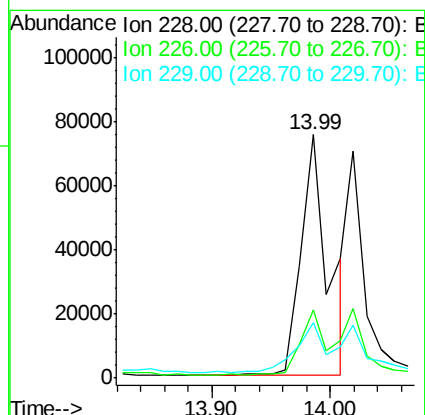
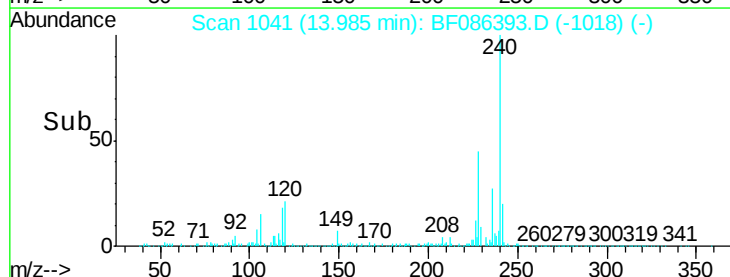
229 22.9 15.8 23.8

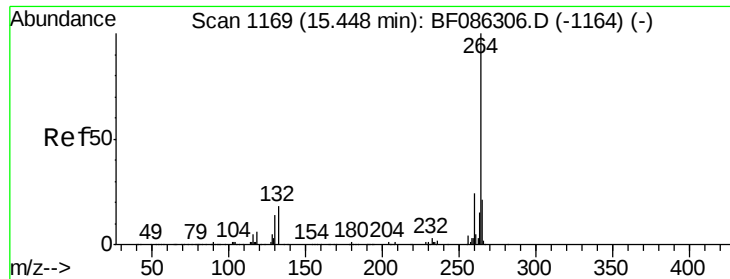


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

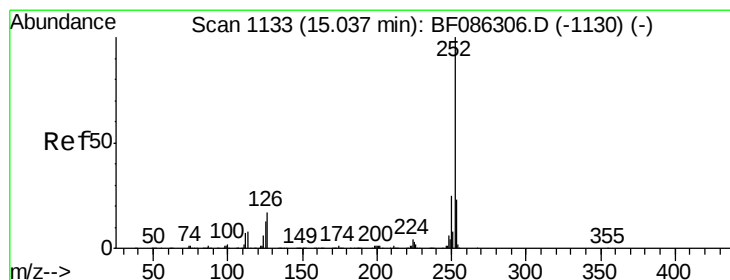
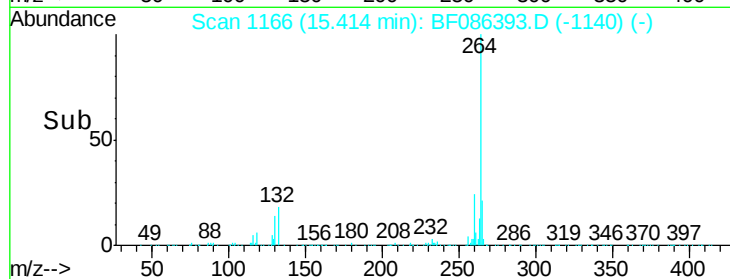
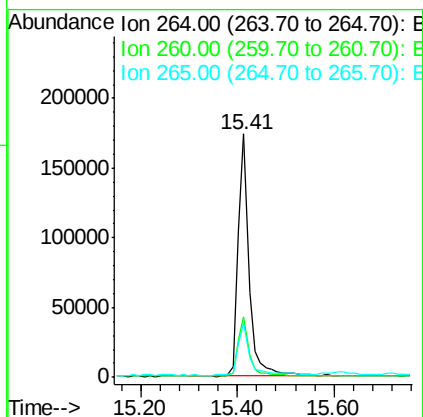
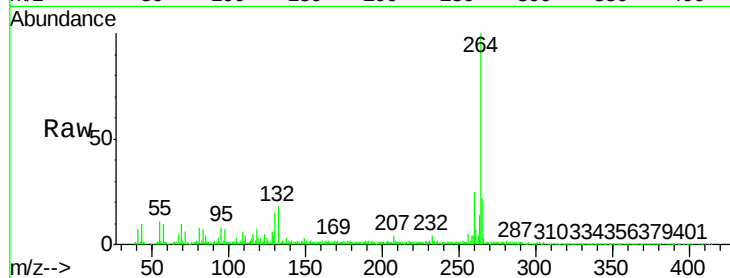




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.41 min Scan# 1166  
Delta R.T. -0.00 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

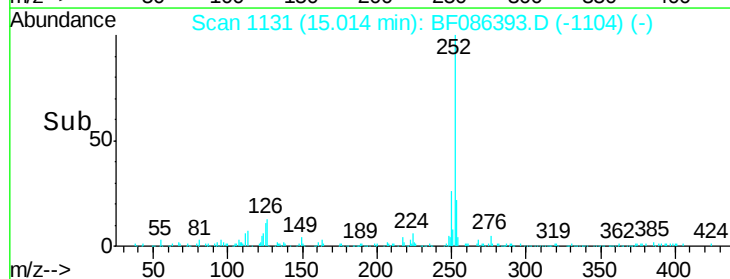
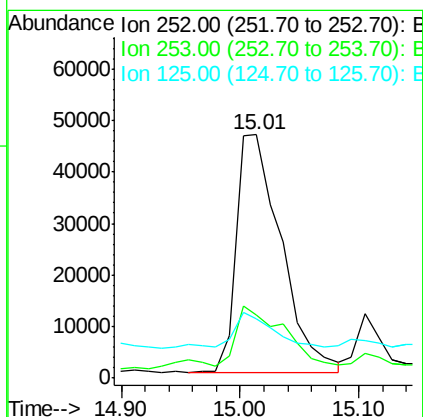
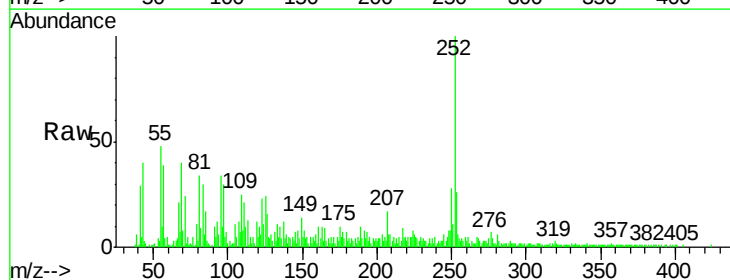
Instrument :  
BNA\_F  
ClientSampleId :  
WPG-B13(0-5)-C

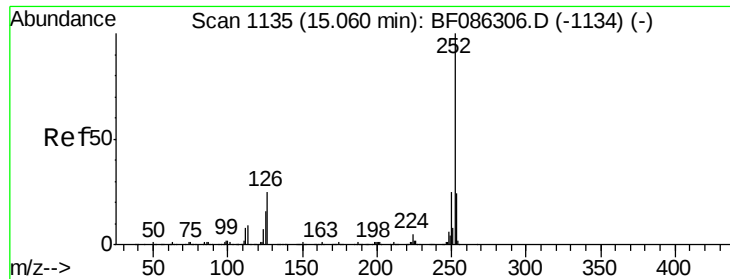
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.5  | 29.3  |
| 265     | 22.0  | 17.3  | 25.9  |



#87  
Benzo(b)fluoranthene  
Concen: 8.01 ng  
RT: 15.01 min Scan# 1131  
Delta R.T. 0.01 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.9  | 17.8  | 26.6  |
| 125     | 24.2  | 11.4  | 17.0  |

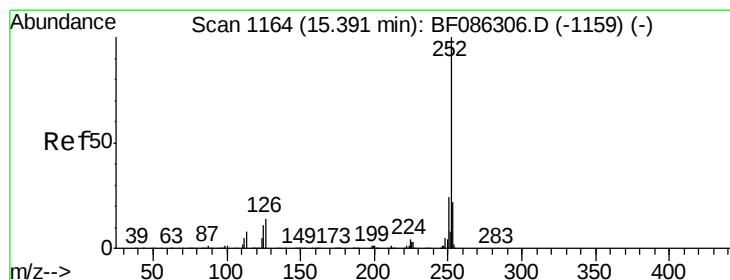
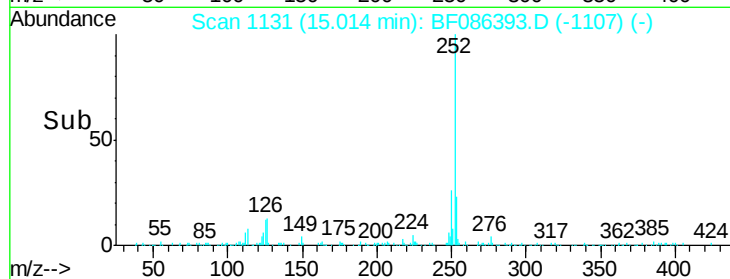
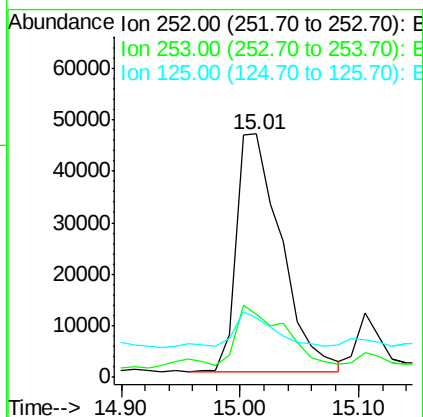
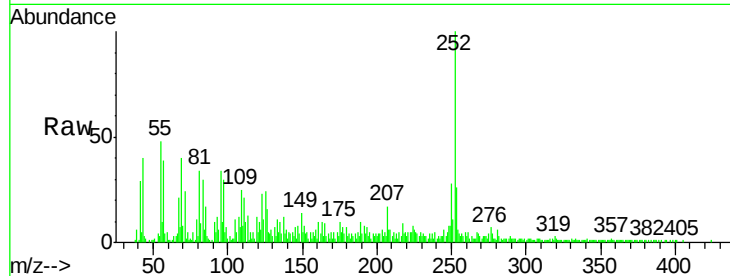




#88  
Benzo(k)fluoranthene  
Concen: 8.16 ng  
RT: 15.01 min Scan# 1131  
Delta R.T. -0.02 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

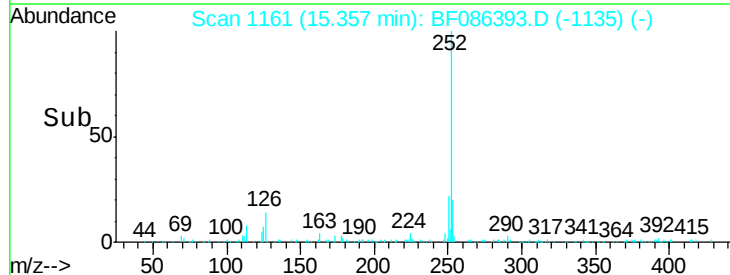
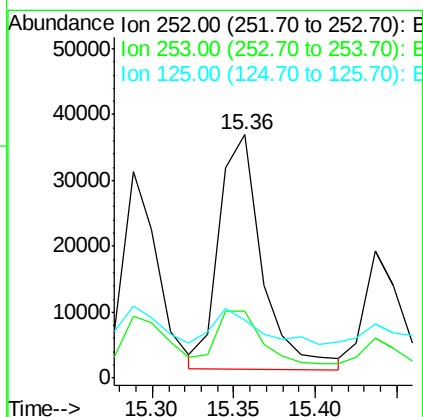
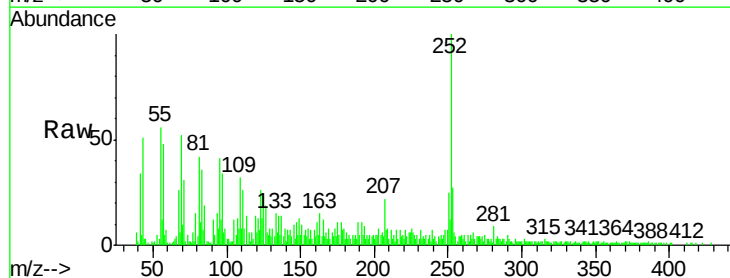
Instrument :  
BNA\_F  
ClientSampleId :  
WPG-B13(0-5)-C

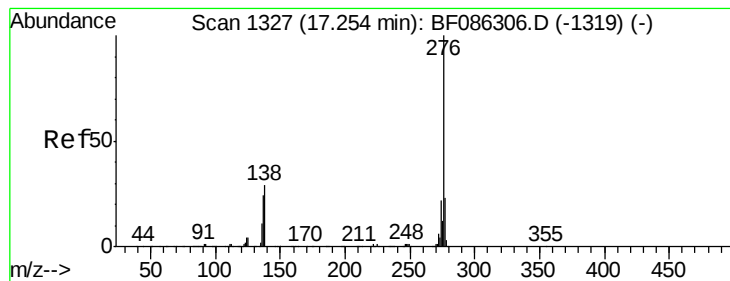
Tgt Ion: 252 Resp: 120917  
Ion Ratio Lower Upper  
252 100  
253 25.9 17.8 26.6  
125 24.2 9.1 13.7#



#89  
Benzo(a)pyrene  
Concen: 4.37 ng  
RT: 15.36 min Scan# 1161  
Delta R.T. -0.00 min  
Lab File: BF086393.D  
Acq: 23 Apr 2016 16:31

Tgt Ion: 252 Resp: 65100  
Ion Ratio Lower Upper  
252 100  
253 27.3 17.2 25.8#  
125 23.8 9.0 13.6#





#91

Benzo(g,h,i)perylene

Concen: 2.70 ng

RT: 17.20 min Scan# 1322

Delta R.T. -0.00 min

Lab File: BF086393.D

Acq: 23 Apr 2016 16:31

Instrument :

BNA\_F

ClientSampleId :

WPG-B13(0-5)-C

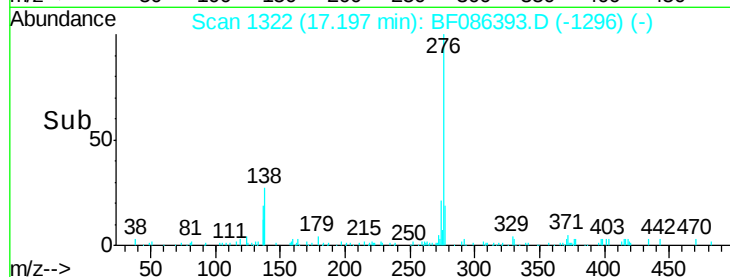
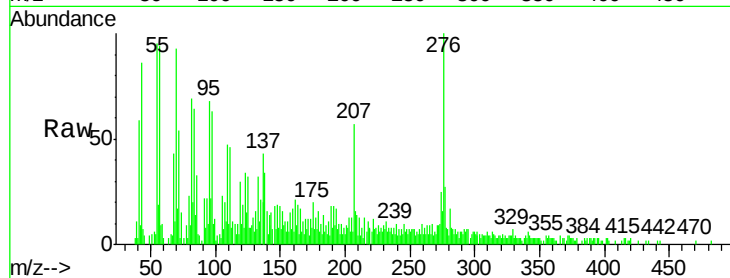
Tgt Ion: 276 Resp: 34289

Ion Ratio Lower Upper

276 100

277 27.3 19.6 29.4

138 33.5 23.6 35.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

