

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
 Data File : BF094820.D  
 Acq On : 3 May 2017 6:44  
 Operator : SJ/MA  
 Sample : PB98658BL  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB98658BL

Quant Time: May 03 07:54:36 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 02 17:18:57 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 98622    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 9.75  | 136  | 376947   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 12.58 | 164  | 166342   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 14.98 | 188  | 274246   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 18.64 | 240  | 190877   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 20.31 | 264  | 160377   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.69  | 112 | 777610  | 131.46 | ng | 0.01  |
| 7) Phenol-d6                | 7.28  | 99  | 907300  | 127.83 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 8.63  | 82  | 538251  | 90.04  | ng | 0.00  |
| 41) 2,4,6-Tribromophenol    | 13.87 | 330 | 165802  | 121.71 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 11.52 | 172 | 1056531 | 91.42  | ng | 0.00  |
| 78) Terphenyl-d14           | 17.31 | 244 | 742022  | 85.62  | ng | 0.00  |

|                                |       |     |      |        |    |      |
|--------------------------------|-------|-----|------|--------|----|------|
| Target Compounds               |       |     |      | Qvalue |    |      |
| 6) Aniline                     | 7.25  | 93  | 1256 | 0.140  | ng | # 1  |
| 8) 2-Chlorophenol              | 7.42  | 128 | 653  | 0.097  | ng | # 1  |
| 9) Benzaldehyde                | 7.27  | 77  | 897  | 0.207  | ng | # 1  |
| 10) Phenol                     | 7.28  | 94  | 115  | 0.015  | ng | # 1  |
| 11) bis(2-Chloroethyl)ether    | 7.39  | 93  | 792  | 0.128  | ng | # 1  |
| 15) Benzyl Alcohol             | 7.97  | 79  | 8649 | 1.895  | ng | # 40 |
| 24) Nitrobenzene               | 8.62  | 77  | 1304 | 0.208  | ng | # 40 |
| 25) Isophorone                 | 9.08  | 82  | 121  | 0.011  | ng | # 67 |
| 31) Naphthalene                | 9.78  | 128 | 114  | 0.006  | ng | # 68 |
| 37) 2-Methylnaphthalene        | 10.92 | 142 | 134  | 0.011  | ng | # 15 |
| 45) 1,1'-Biphenyl              | 11.52 | 154 | 1717 | 0.123  | ng | # 1  |
| 48) Acenaphthylene             | 12.36 | 152 | 648  | 0.037  | ng | # 60 |
| 51) Acenaphthene               | 11.52 | 154 | 1717 | 0.123  | ng | # 1  |
| 57) Fluorene                   | 13.48 | 166 | 175  | 0.014  | ng | # 65 |
| 59) Diethylphthalate           | 13.37 | 149 | 400  | 0.031  | ng | # 60 |
| 62) Azobenzene                 | 13.76 | 77  | 118  | 0.011  | ng | # 50 |
| 65) n-Nitrosodiphenylamine     | 13.87 | 169 | 5651 | 0.568  | ng | # 47 |
| 70) Phenanthrene               | 15.02 | 178 | 434  | 0.028  | ng | # 59 |
| 71) Anthracene                 | 15.11 | 178 | 109  | 0.007  | ng | # 59 |
| 72) Carbazole                  | 15.42 | 167 | 135  | 0.009  | ng | # 58 |
| 73) Di-n-butylphthalate        | 15.95 | 149 | 1508 | 0.083  | ng | # 78 |
| 74) Fluoranthene               | 16.76 | 202 | 421  | 0.026  | ng | # 62 |
| 77) Pyrene                     | 17.07 | 202 | 459  | 0.032  | ng | # 56 |
| 80) Benzo(a)anthracene         | 18.64 | 228 | 681  | 0.061  | ng | # 45 |
| 82) Chrysene                   | 18.68 | 228 | 285  | 0.027  | ng | # 49 |
| 83) Bis(2-ethylhexyl)phthalate | 18.71 | 149 | 728  | 0.077  | ng | # 38 |
| 84) Di-n-octyl phthalate       | 19.48 | 149 | 859  | 0.055  | ng | # 1  |
| 85) Indeno(1,2,3-cd)pyrene     | 21.62 | 276 | 365  | 0.042  | ng | # 44 |
| 87) Benzo(b)fluoranthene       | 19.91 | 252 | 1039 | 0.105  | ng | # 59 |
| 88) Benzo(k)fluoranthene       | 19.94 | 252 | 549  | 0.057  | ng | # 56 |
| 89) Benzo(a)pyrene             | 20.25 | 252 | 242  | 0.026  | ng | # 59 |
| 91) Benzo(g,h,i)perylene       | 22.00 | 276 | 126  | 0.017  | ng | # 47 |

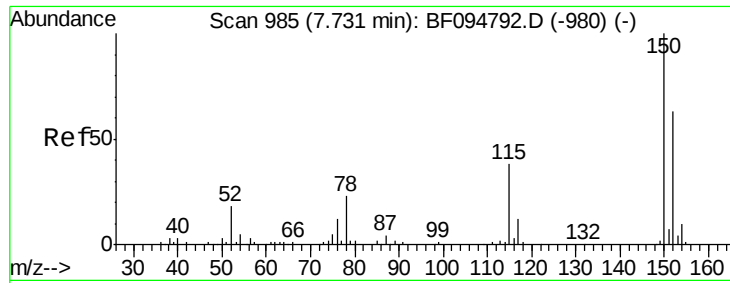
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050217\  
Data File : BF094820.D  
Acq On : 3 May 2017 6:44  
Operator : SJ/MA  
Sample : PB98658BL  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB98658BL

Quant Time: May 03 07:54:36 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 02 17:18:57 2017  
Response via : Initial Calibration

| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |



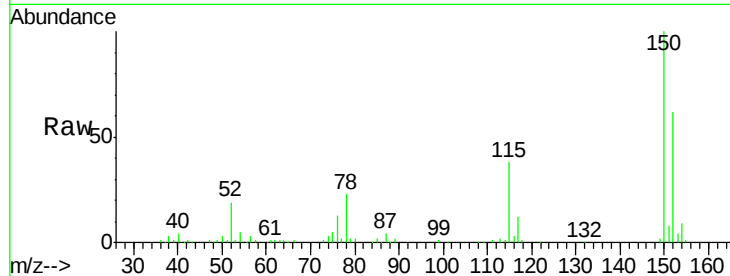


#1

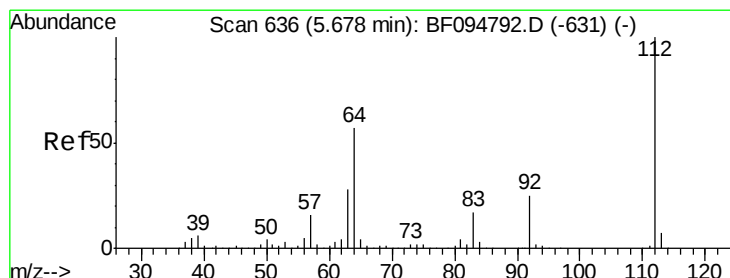
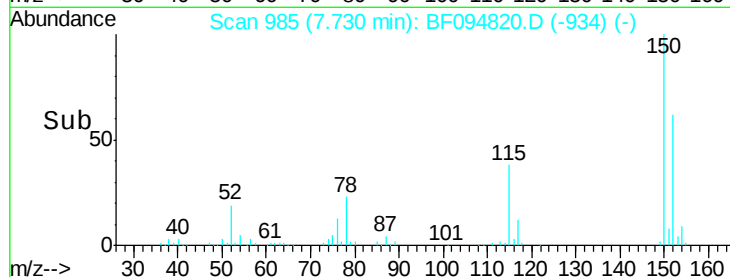
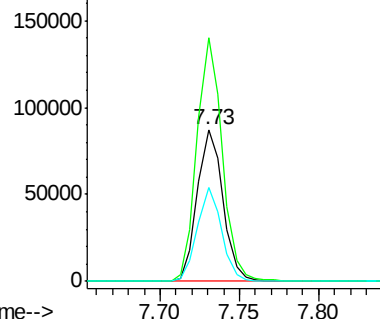
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.73 min Scan# 985  
Delta R.T. -0.00 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Instrument :  
BNA\_F  
ClientSampleId :  
PB98658BL

Tgt Ion:152 Resp: 98622  
Ion Ratio Lower Upper  
152 100  
150 160.6 126.2 189.2  
115 61.7 52.2 78.2



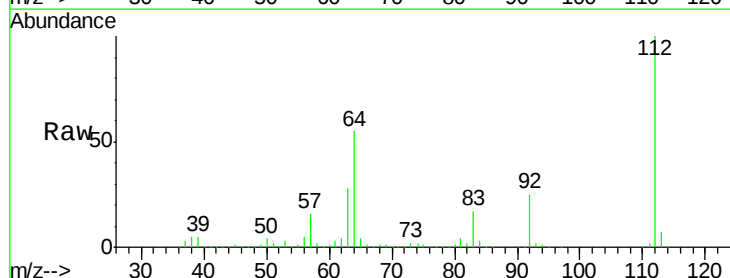
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



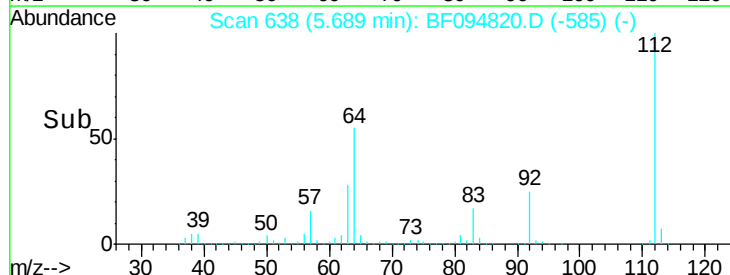
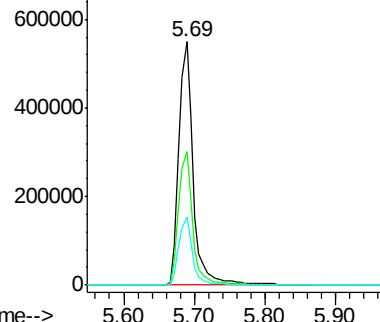
#5

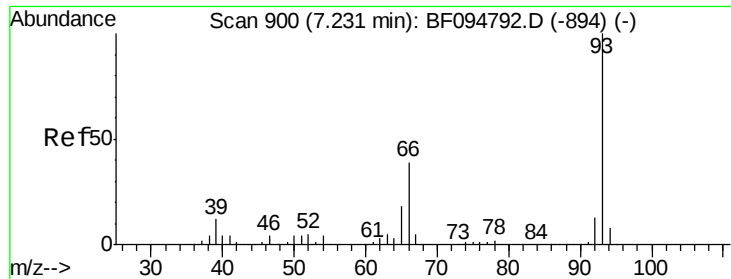
2-Fluorophenol  
Concen: 131.455 ng  
RT: 5.69 min Scan# 638  
Delta R.T. 0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Tgt Ion:112 Resp: 777610  
Ion Ratio Lower Upper  
112 100  
64 55.0 46.0 69.0  
63 27.8 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





#6

Aniline

Concen: 0.140 ng

RT: 7.25 min Scan# 904

Delta R.T. 0.02 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

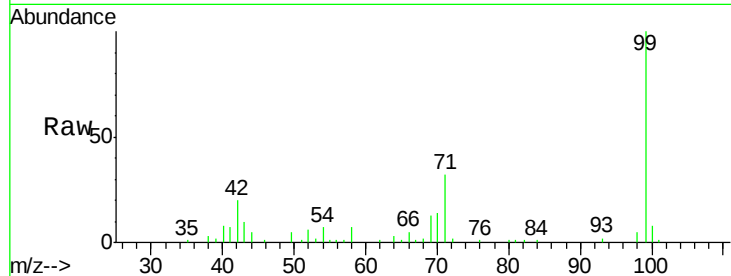
Tgt Ion: 93 Resp: 1256

Ion Ratio Lower Upper

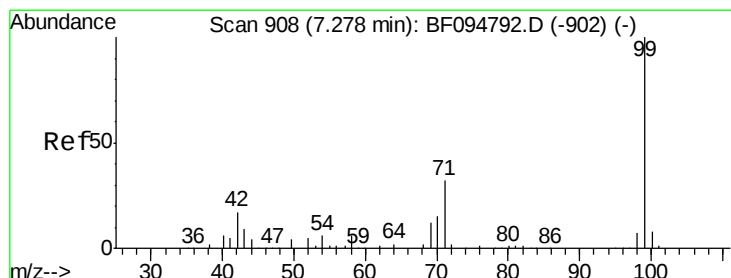
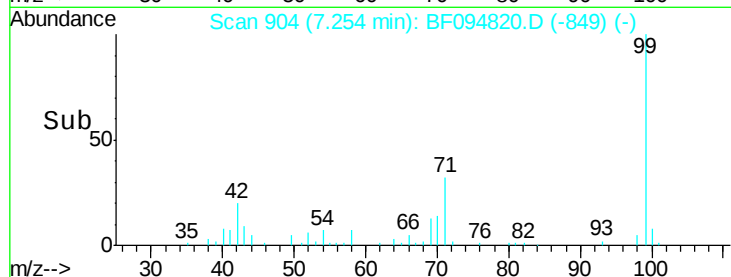
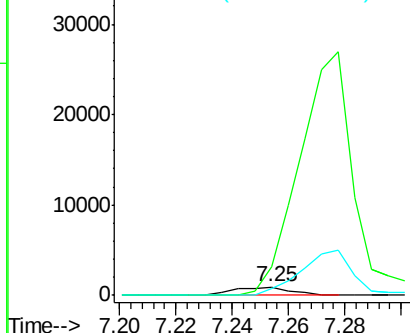
93 100

66 337.9 32.9 49.3#

65 75.2 16.0 24.0#



Abundance Ion 93.00 (92.70 to 93.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 127.833 ng

RT: 7.28 min Scan# 908

Delta R.T. -0.00 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

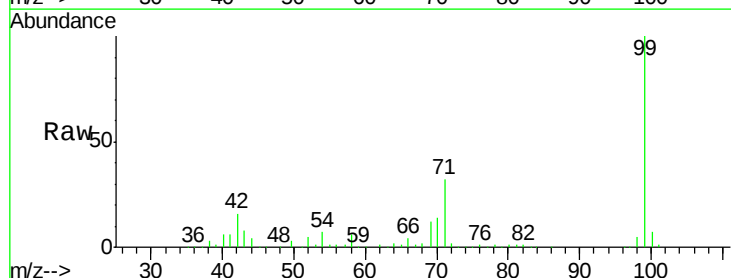
Tgt Ion: 99 Resp: 907300

Ion Ratio Lower Upper

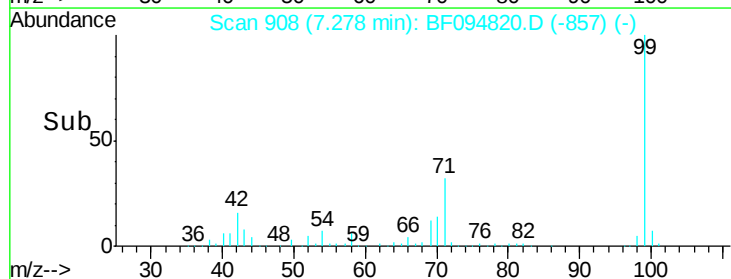
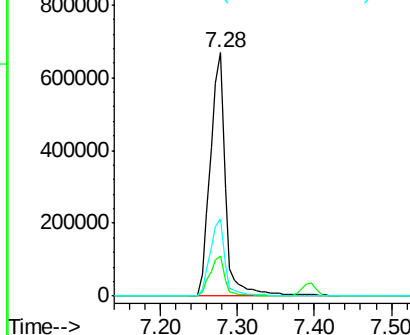
99 100

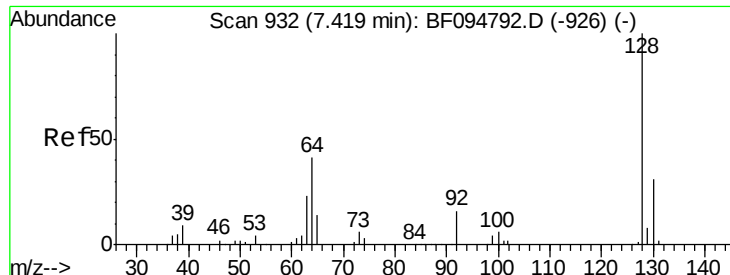
42 16.3 13.5 20.3

71 31.6 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0

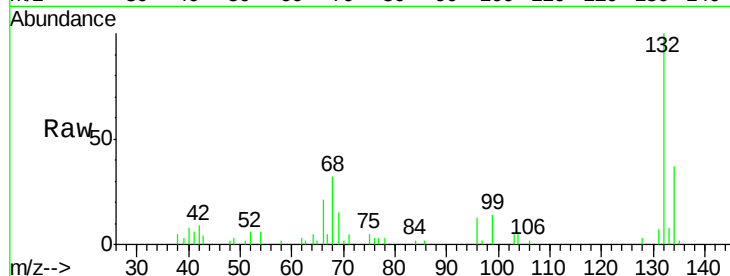




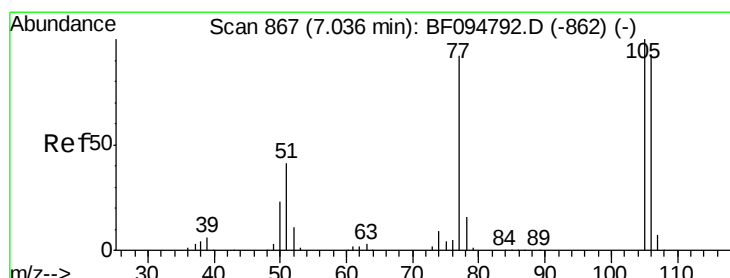
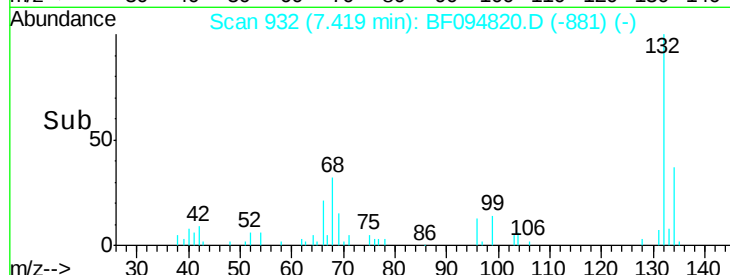
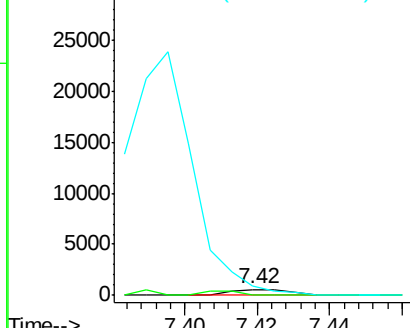
#8  
2-Chlorophenol  
Concen: 0.097 ng  
RT: 7.42 min Scan# 932  
Delta R.T. -0.00 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Instrument :  
BNA\_F  
ClientSampleId :  
PB98658BL

Tgt Ion: 128 Resp: 653  
Ion Ratio Lower Upper  
128 100  
130 0.0 12.9 52.9#  
64 157.8 28.4 68.4#

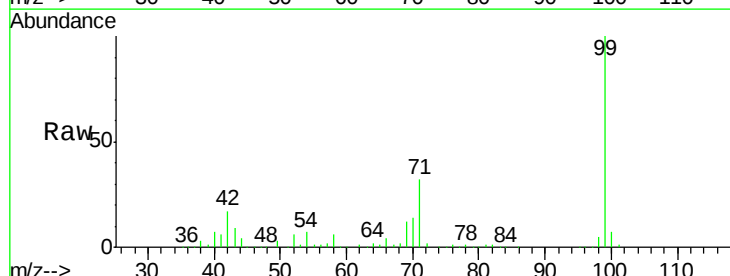


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 64.00 (63.70 to 64.70): BF0

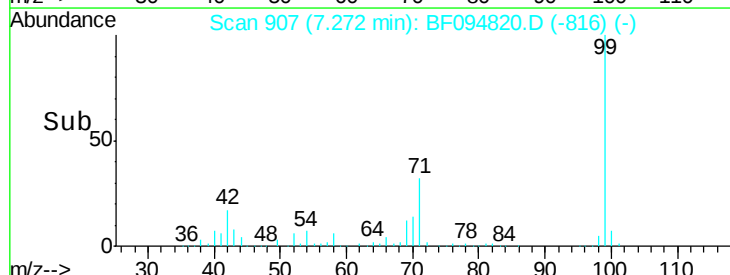
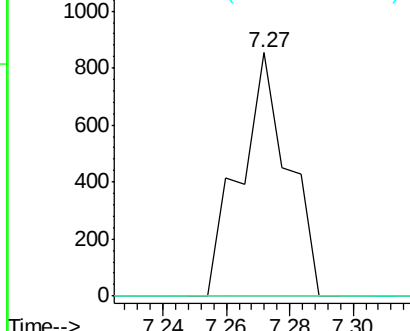


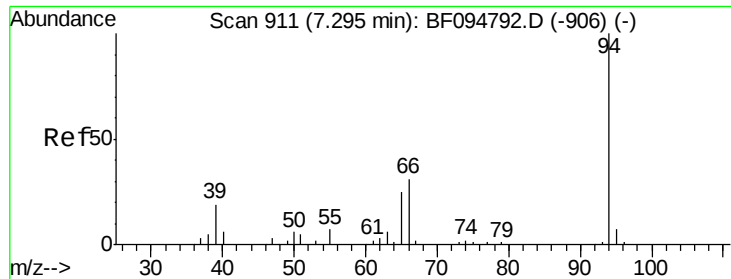
#9  
Benzaldehyde  
Concen: 0.207 ng  
RT: 7.27 min Scan# 907  
Delta R.T. 0.24 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Tgt Ion: 77 Resp: 897  
Ion Ratio Lower Upper  
77 100  
105 0.0 83.8 123.8#  
106 0.0 79.1 119.1#



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E

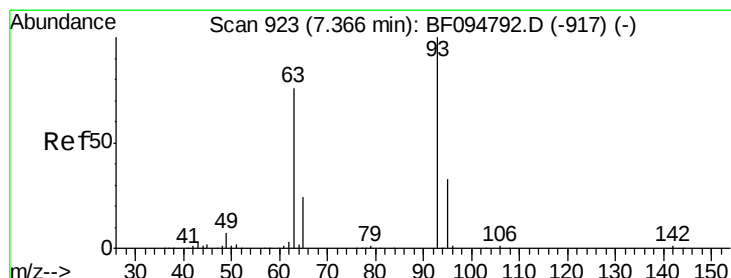
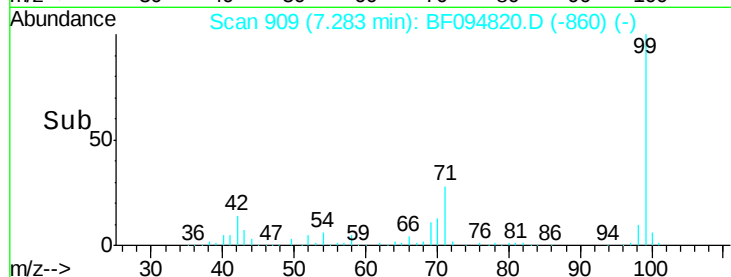
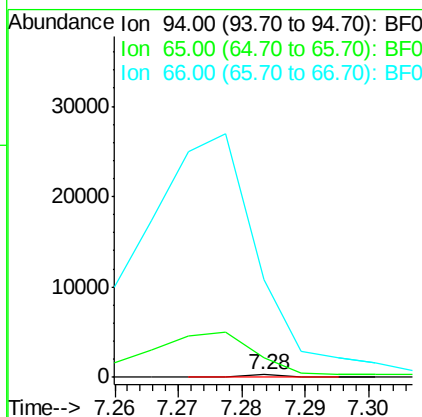
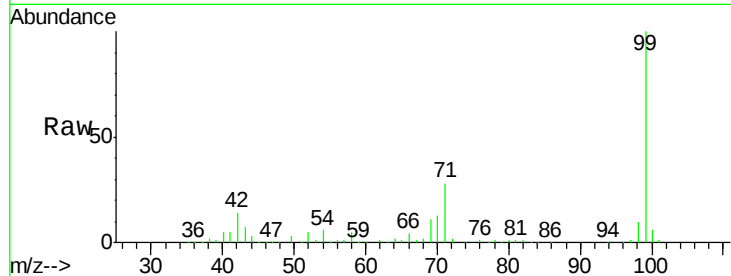




#10  
Phenol  
Concen: 0.015 ng  
RT: 7.28 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

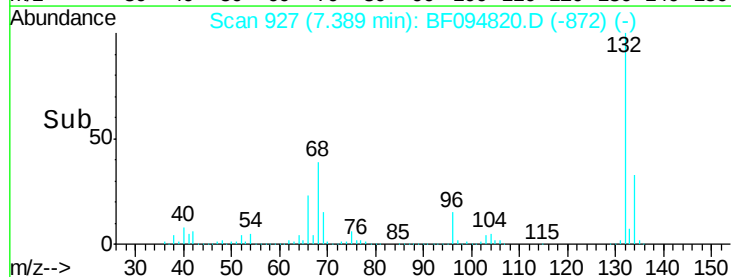
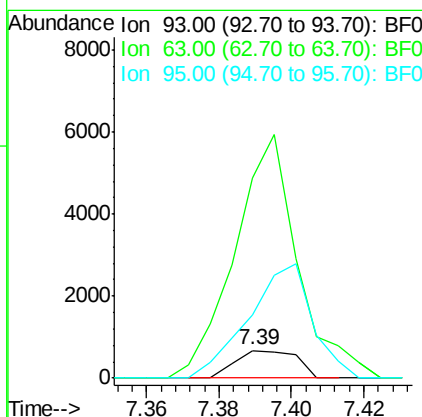
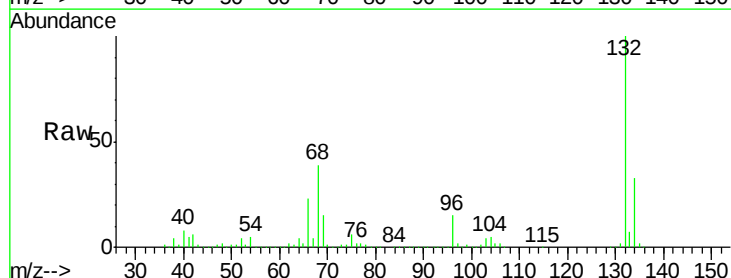
Instrument :  
BNA\_F  
ClientSampleId :  
PB98658BL

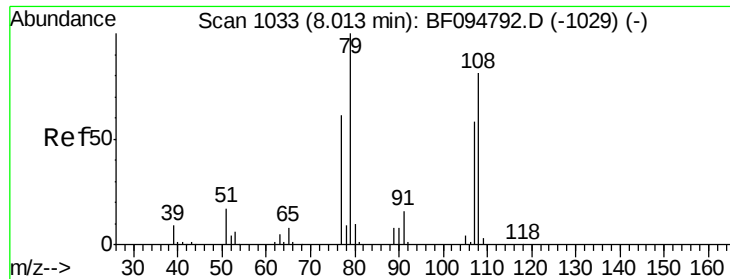
Tgt Ion: 94 Resp: 115  
Ion Ratio Lower Upper  
94 100  
65 658.8 9.9 49.9#  
66 3325.8 23.1 63.1#



#11  
bis(2-Chloroethyl)ether  
Concen: 0.128 ng  
RT: 7.39 min Scan# 927  
Delta R.T. 0.02 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Tgt Ion: 93 Resp: 792  
Ion Ratio Lower Upper  
93 100  
63 724.3 59.2 99.2#  
95 229.2 12.8 52.8#

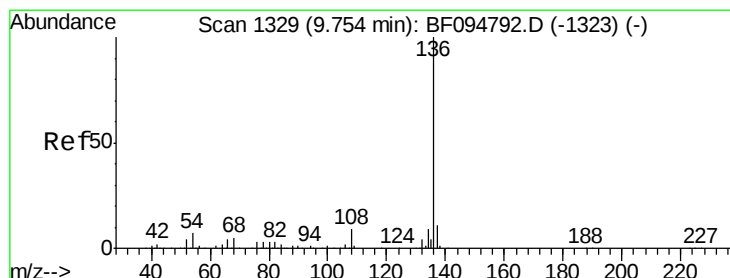
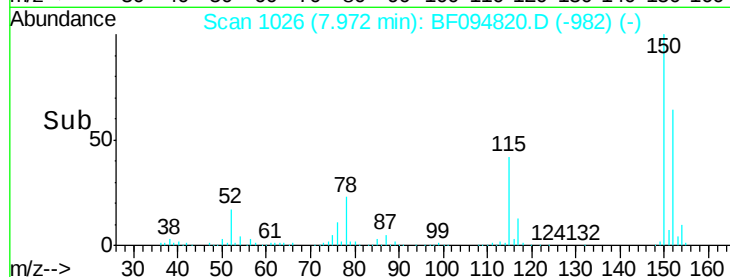
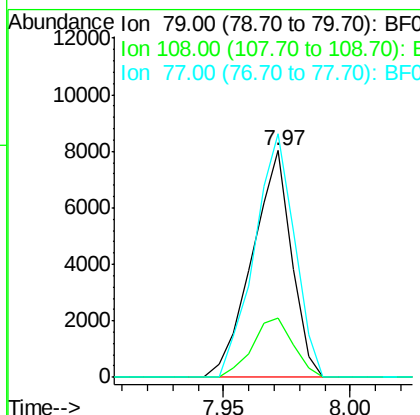
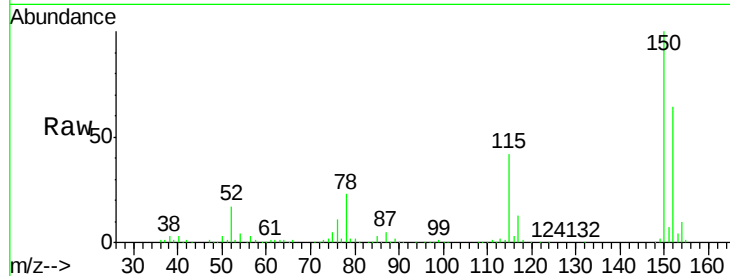




#15  
Benzyl Alcohol  
Concen: 1.895 ng  
RT: 7.97 min Scan# 1026  
Delta R.T. -0.04 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

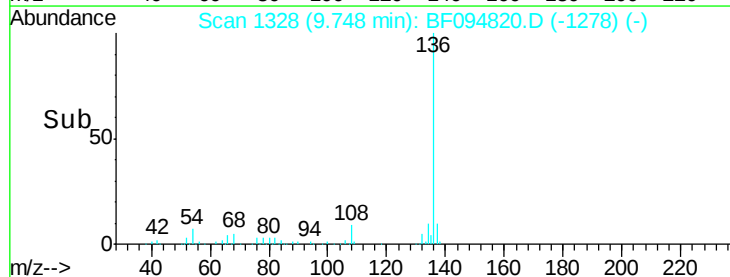
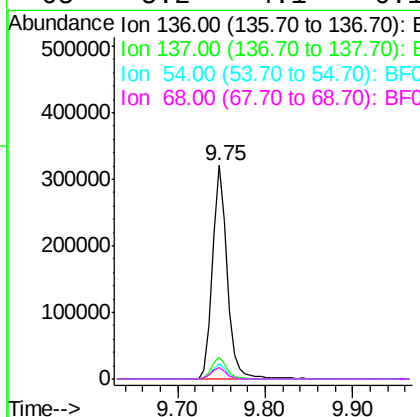
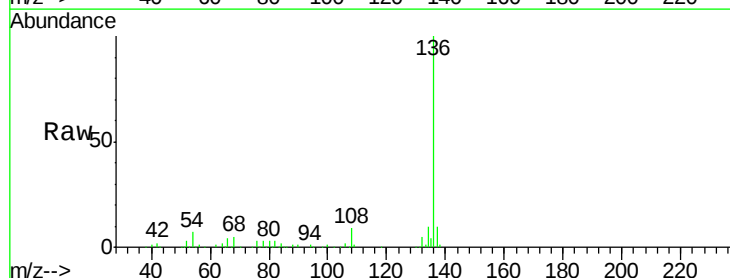
Instrument :  
BNA\_F  
ClientSampleId :  
PB98658BL

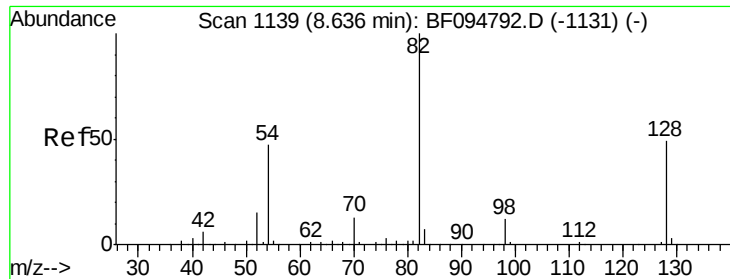
Tgt Ion: 79 Resp: 8649  
Ion Ratio Lower Upper  
79 100  
108 26.2 63.4 95.0#  
77 107.4 49.2 73.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 9.75 min Scan# 1328  
Delta R.T. -0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Tgt Ion: 136 Resp: 376947  
Ion Ratio Lower Upper  
136 100  
137 10.4 8.5 12.7  
54 7.1 4.9 7.3  
68 5.2 4.1 6.1

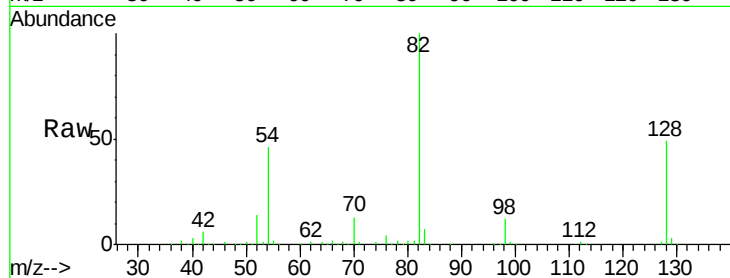




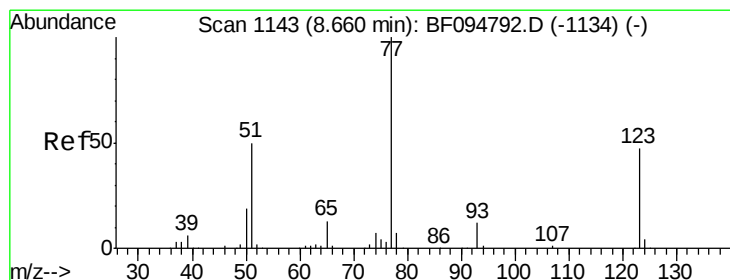
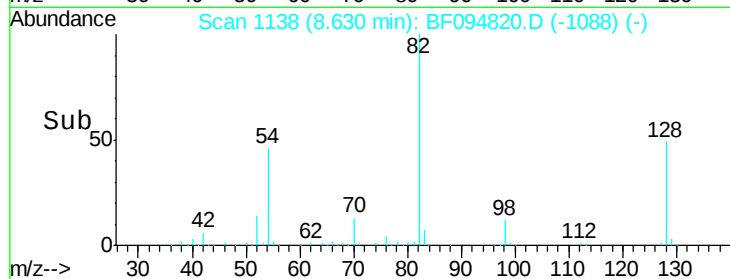
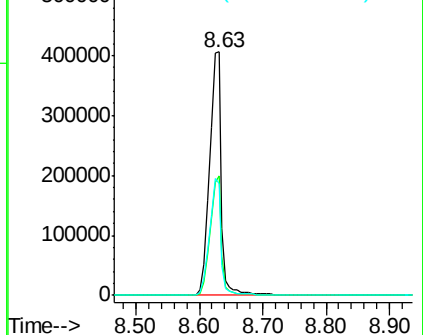
#23  
Nitrobenzene-d5  
Concen: 90.043 ng  
RT: 8.63 min Scan# 1138  
Delta R.T. -0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Instrument :  
BNA\_F  
ClientSampleId :  
PB98658BL

Tgt Ion: 82 Resp: 538251  
Ion Ratio Lower Upper  
82 100  
128 48.8 34.0 51.0  
54 45.9 42.2 63.2

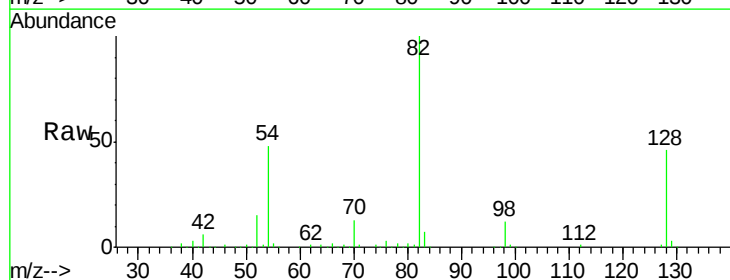


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0

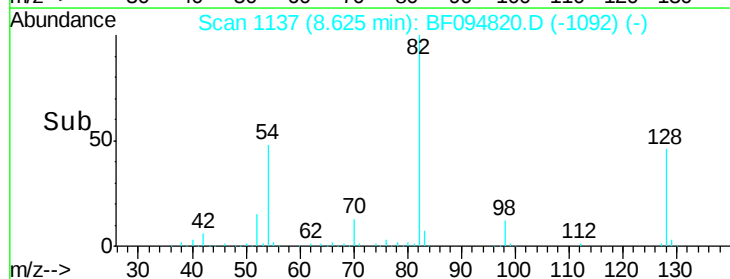
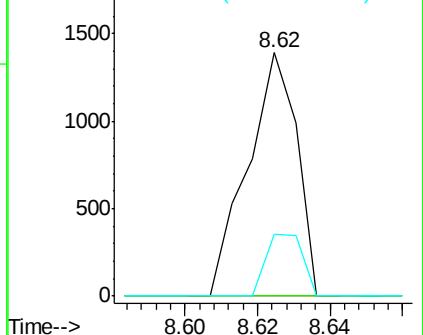


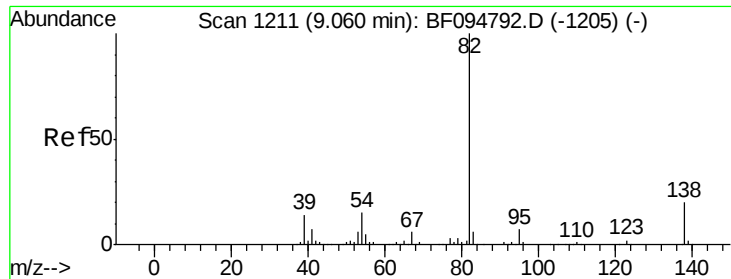
#24  
Nitrobenzene  
Concen: 0.208 ng  
RT: 8.62 min Scan# 1137  
Delta R.T. -0.04 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Tgt Ion: 77 Resp: 1304  
Ion Ratio Lower Upper  
77 100  
123 0.0 35.8 53.8#  
65 25.2 10.6 15.8#



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 123.00 (122.70 to 123.70): B  
Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 0.011 ng

RT: 9.08 min Scan# 1214

Delta R.T. 0.02 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

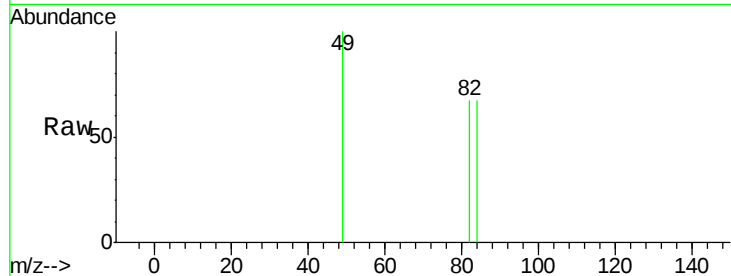
Tgt Ion: 82 Resp: 121

Ion Ratio Lower Upper

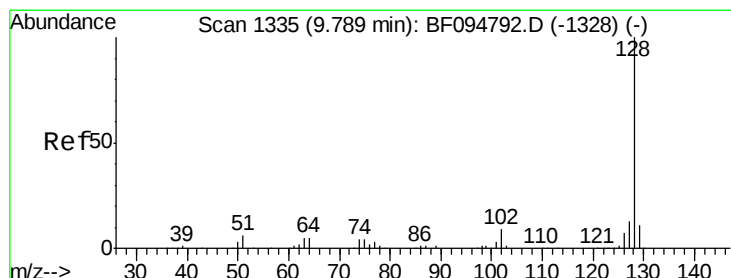
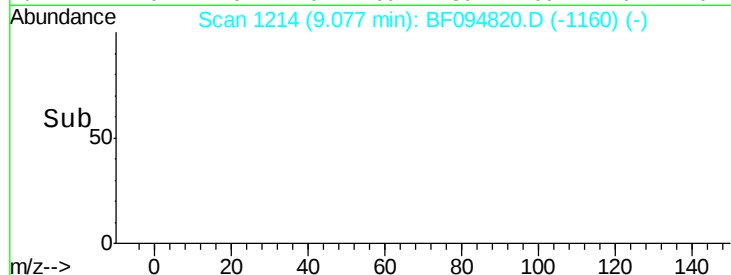
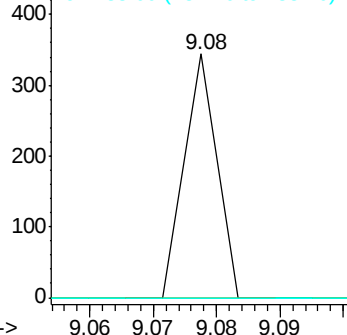
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E



#31

Naphthalene

Concen: 0.006 ng

RT: 9.78 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

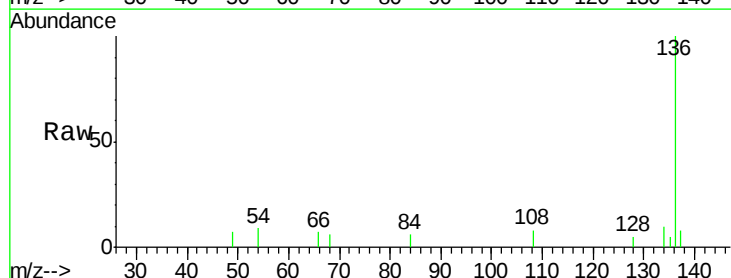
Tgt Ion: 128 Resp: 114

Ion Ratio Lower Upper

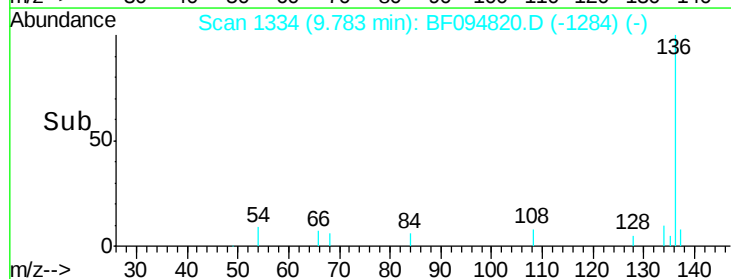
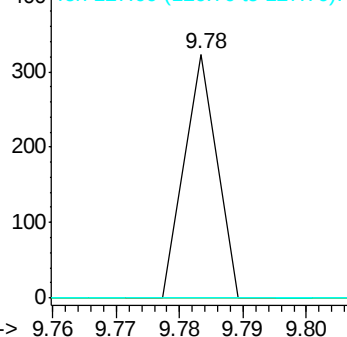
128 100

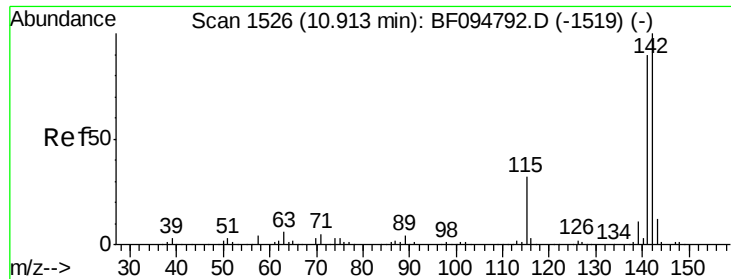
129 0.0 9.0 13.6#

127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

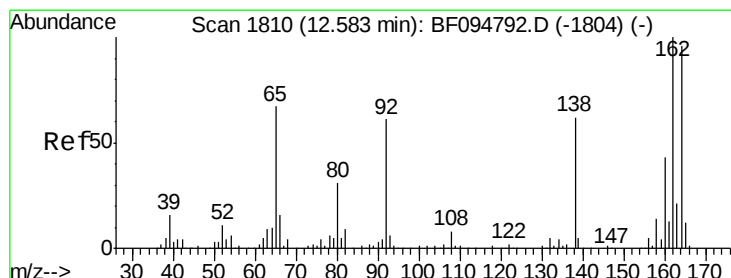
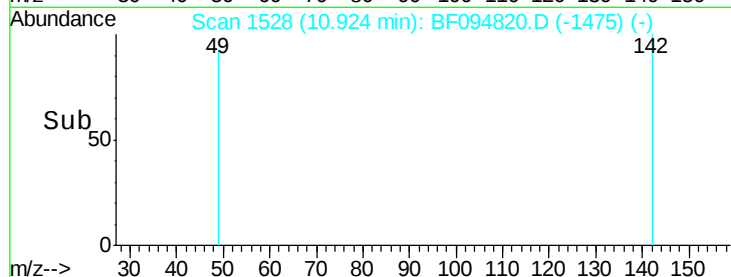
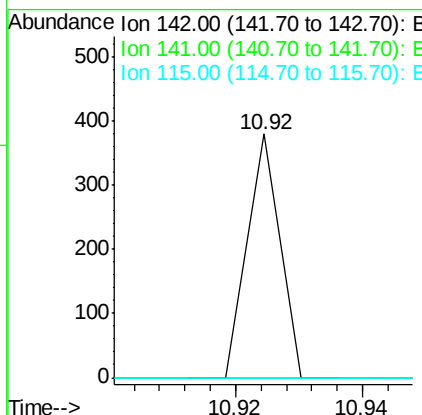
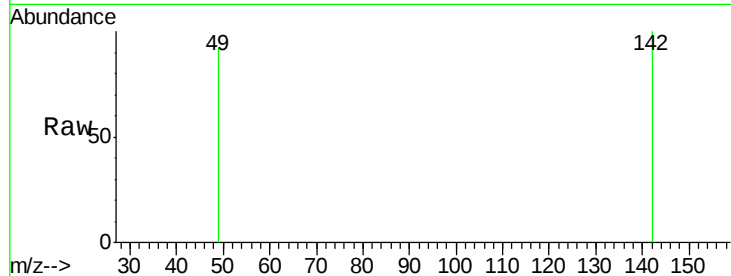




#37  
2-Methylnaphthalene  
Concen: 0.011 ng  
RT: 10.92 min Scan# 1528  
Delta R.T. 0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

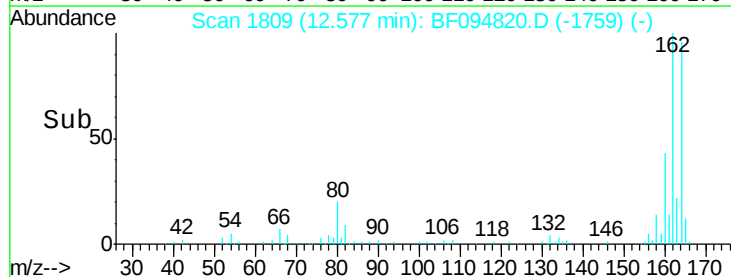
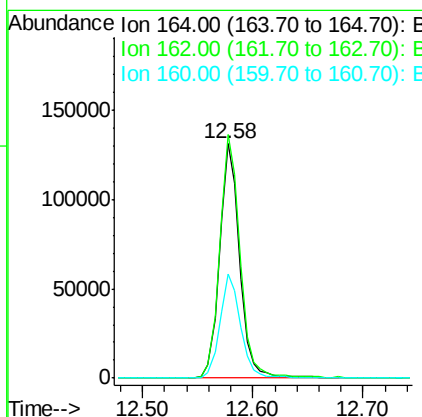
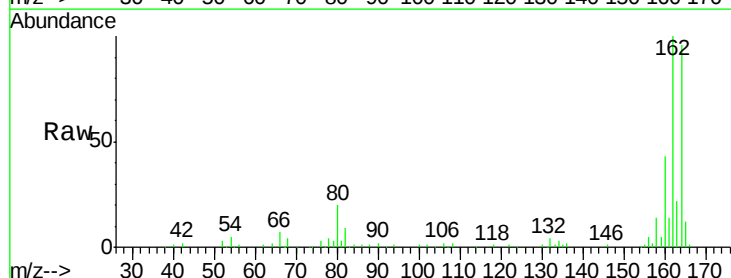
Instrument :  
BNA\_F  
ClientSampleId :  
PB98658BL

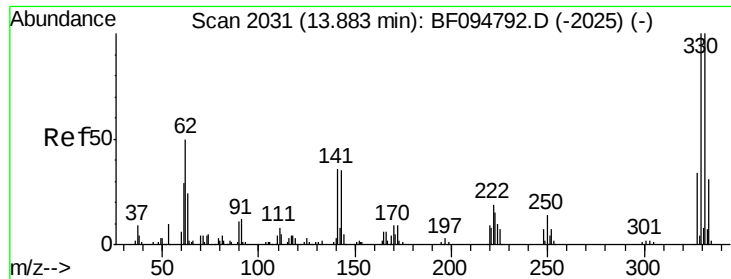
Tgt Ion:142 Resp: 134  
Ion Ratio Lower Upper  
142 100  
141 0.0 71.3 106.9#  
115 0.0 27.1 40.7#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 12.58 min Scan# 1809  
Delta R.T. -0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Tgt Ion:164 Resp: 166342  
Ion Ratio Lower Upper  
164 100  
162 103.9 82.6 123.8  
160 44.3 36.2 54.2

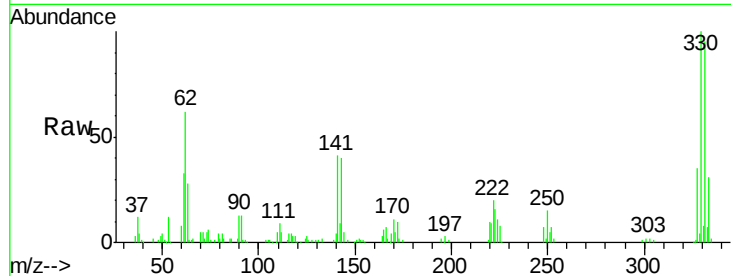




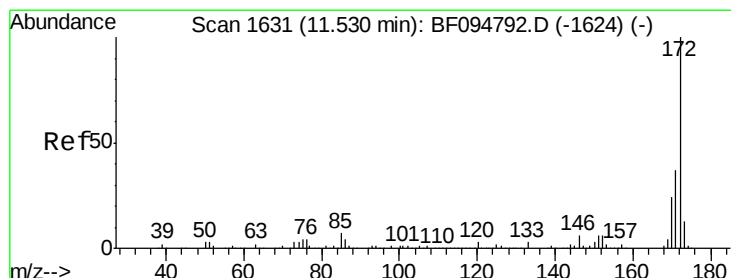
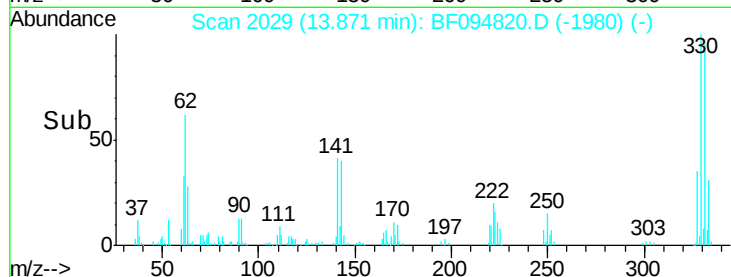
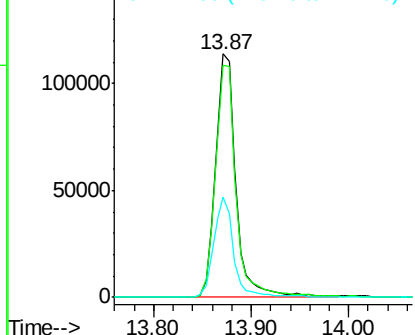
#41  
 2,4,6-Tribromophenol  
 Concen: 121.708 ng  
 RT: 13.87 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB98658BL

Tgt Ion:330 Resp: 165802  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 76.6 115.0  
 141 40.2 31.4 47.2

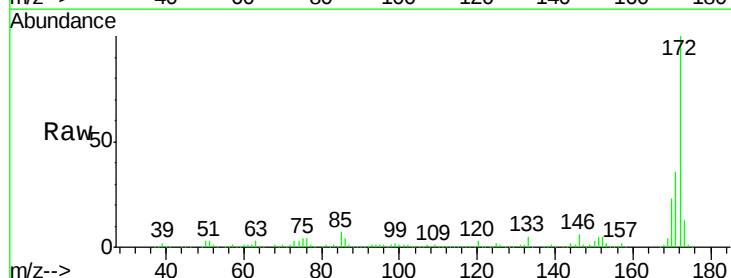


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

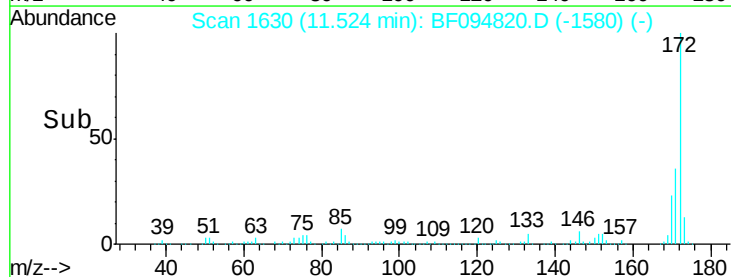
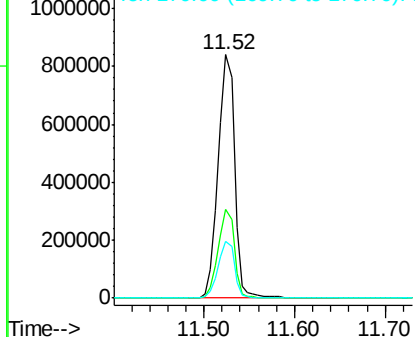


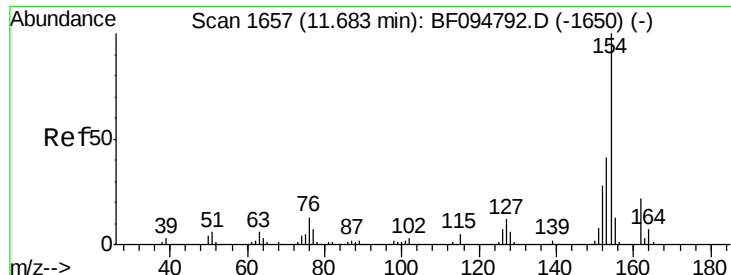
#44  
 2-Fluorobiphenyl  
 Concen: 91.421 ng  
 RT: 11.52 min Scan# 1630  
 Delta R.T. -0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

Tgt Ion:172 Resp: 1056531  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.6 44.4  
 170 23.5 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 0.123 ng

RT: 11.52 min Scan# 1630

Delta R.T. -0.16 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

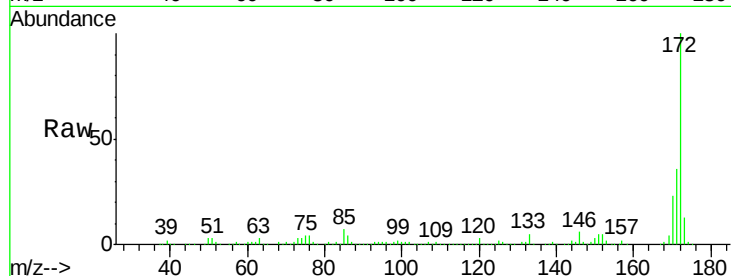
Tgt Ion:154 Resp: 1717

Ion Ratio Lower Upper

154 100

153 1078.3 21.2 61.2#

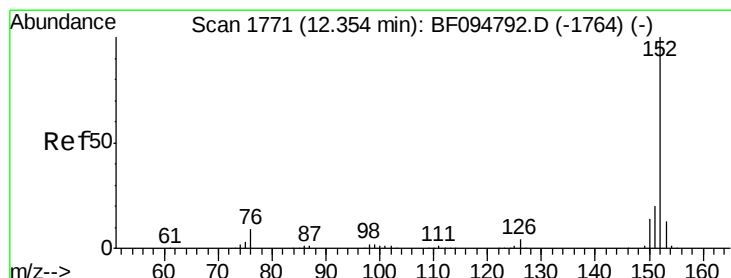
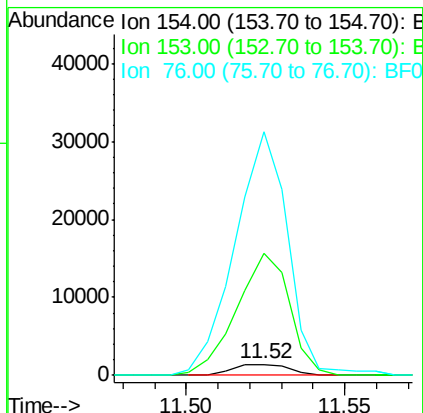
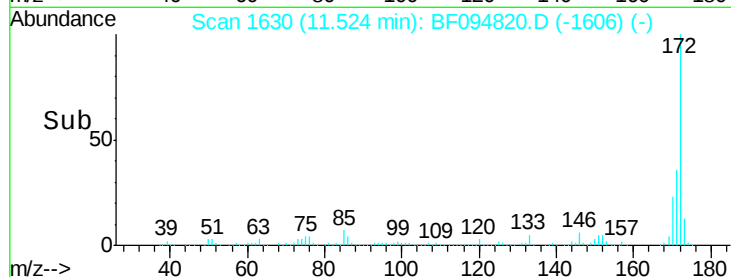
76 2162.9 0.0 29.9#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 0.037 ng

RT: 12.36 min Scan# 1772

Delta R.T. 0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

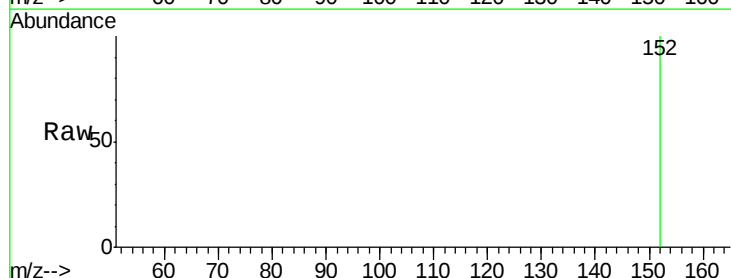
Tgt Ion:152 Resp: 648

Ion Ratio Lower Upper

152 100

151 0.0 16.8 25.2#

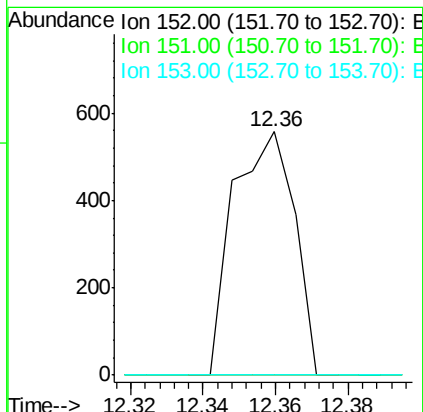
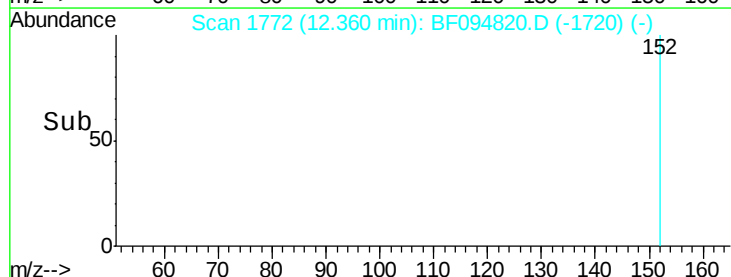
153 0.0 10.8 16.2#

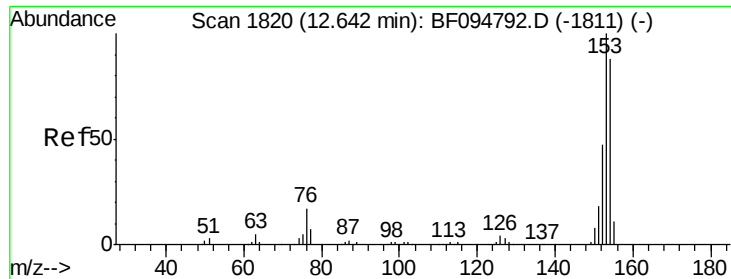


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 0.123 ng

RT: 11.52 min Scan# 1630

Delta R.T. -0.16 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

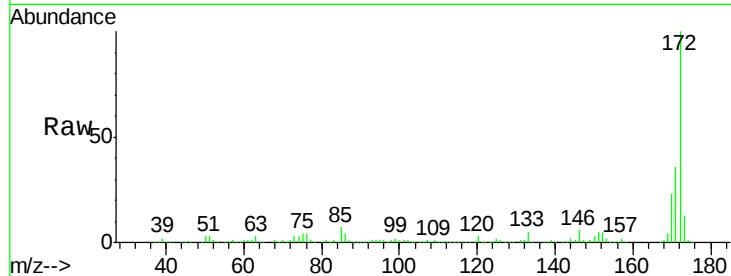
Tgt Ion:154 Resp: 1717

Ion Ratio Lower Upper

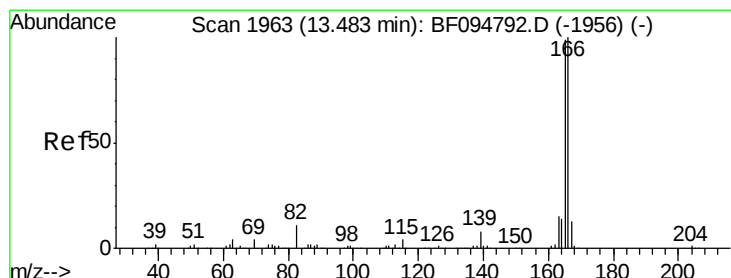
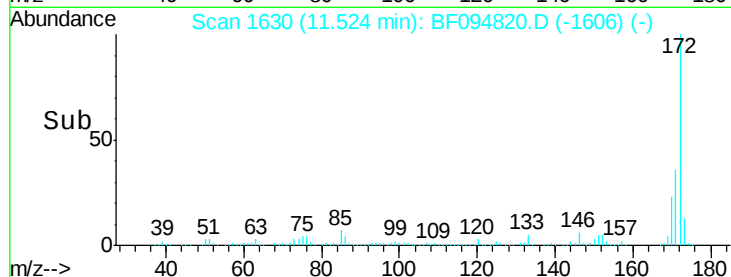
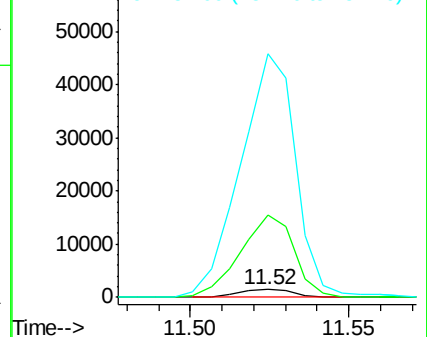
154 100

153 1078.3 90.5 135.7#

152 3170.6 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: 0.014 ng

RT: 13.48 min Scan# 1963

Delta R.T. -0.00 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

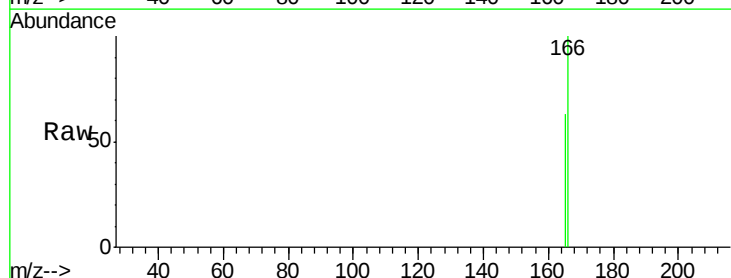
Tgt Ion:166 Resp: 175

Ion Ratio Lower Upper

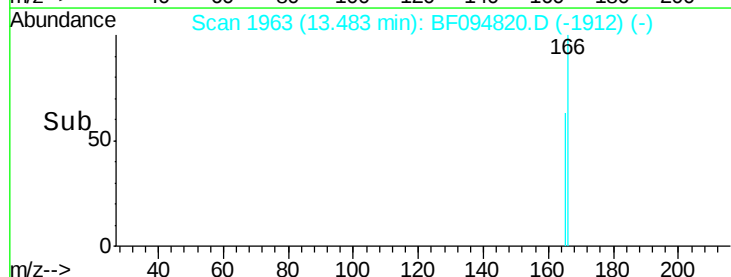
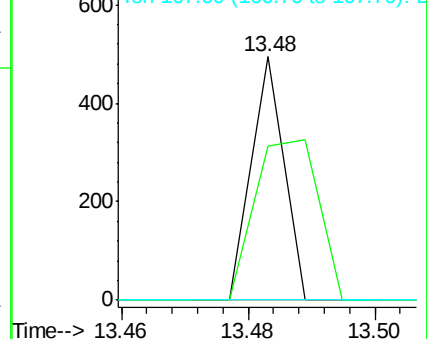
166 100

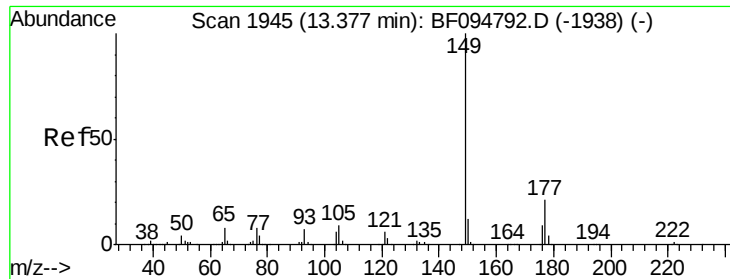
165 63.2 78.8 118.2#

167 0.0 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





#59

Diethylphthalate

Concen: 0.031 ng

RT: 13.37 min Scan# 1943

Delta R.T. -0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

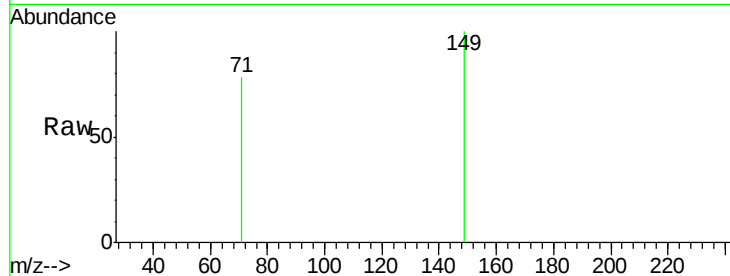
Tgt Ion:149 Resp: 400

Ion Ratio Lower Upper

149 100

177 0.0 16.7 25.1#

150 0.0 10.2 15.2#

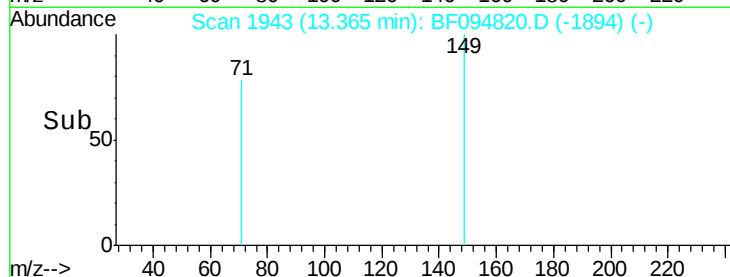


Abundance Ion 149.00 (148.70 to 149.70): E

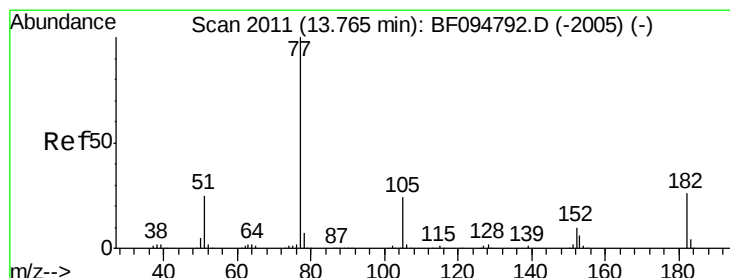
Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

Time-->



Time-->



#62

Azobenzene

Concen: 0.011 ng

RT: 13.76 min Scan# 2010

Delta R.T. -0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Tgt Ion: 77 Resp: 118

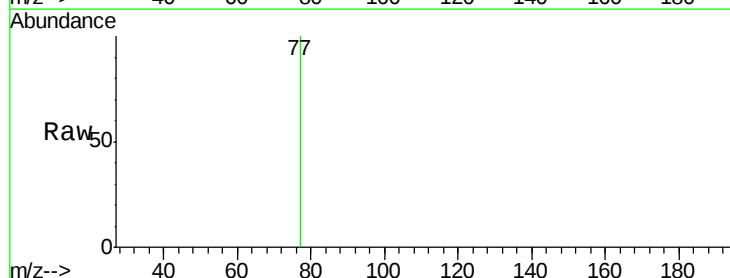
Ion Ratio Lower Upper

77 100

182 0.0 0.1 40.1#

105 0.0 3.6 43.6#

51 0.0 9.4 49.4#



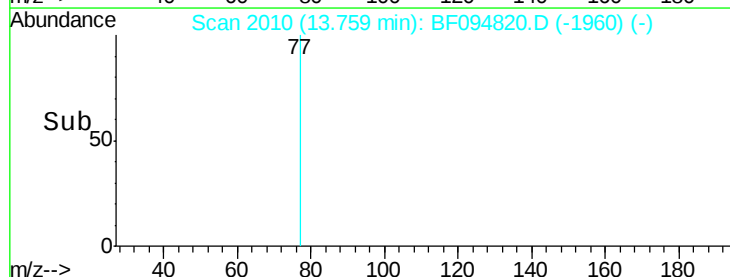
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

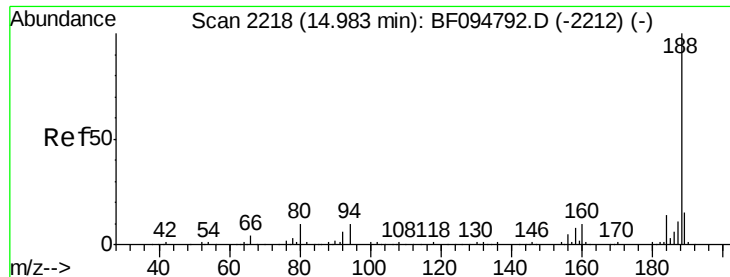
Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0

Time-->



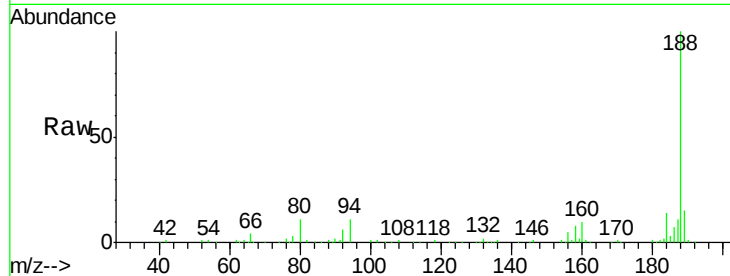
Time-->



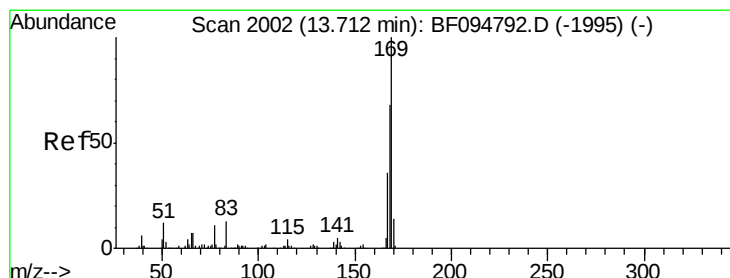
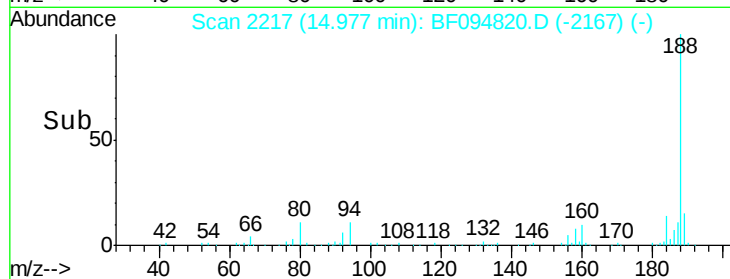
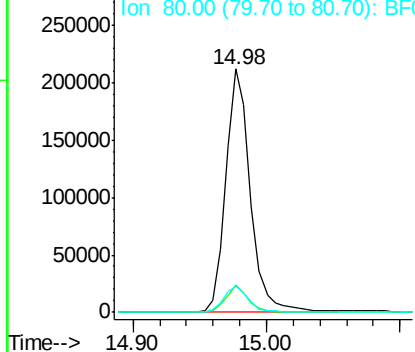
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 14.98 min Scan# 2217  
Delta R.T. -0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Instrument :  
BNA\_F  
ClientSampled :  
PB98658BL

Tgt Ion:188 Resp: 274246  
Ion Ratio Lower Upper  
188 100  
94 11.0 9.4 14.2  
80 10.9 10.2 15.2

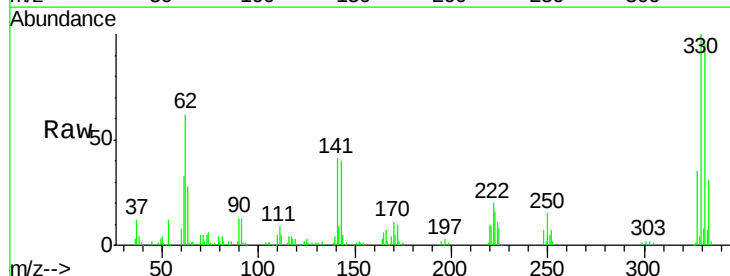


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

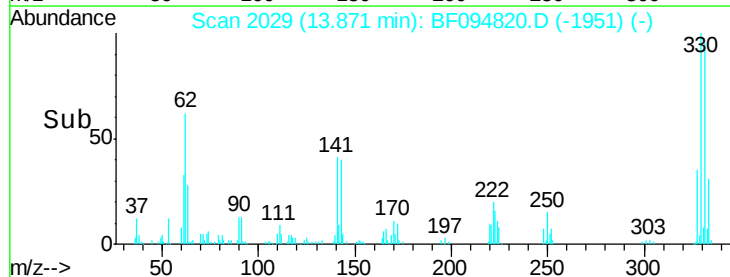
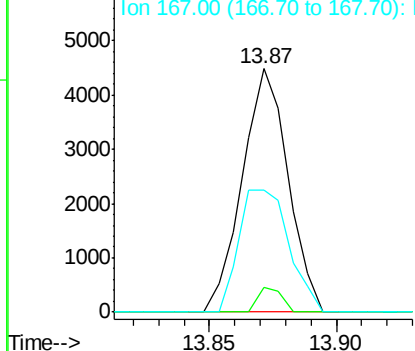


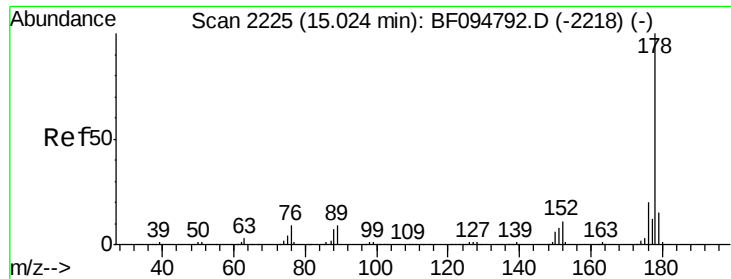
#65  
n-Nitrosodiphenylamine  
Concen: 0.568 ng  
RT: 13.87 min Scan# 2029  
Delta R.T. 0.16 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Tgt Ion:169 Resp: 5651  
Ion Ratio Lower Upper  
169 100  
168 9.9 53.2 79.8#  
167 50.0 29.5 44.3#



Abundance Ion 169.00 (168.70 to 169.70): E  
Ion 168.00 (167.70 to 168.70): E  
Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 0.028 ng

RT: 15.02 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

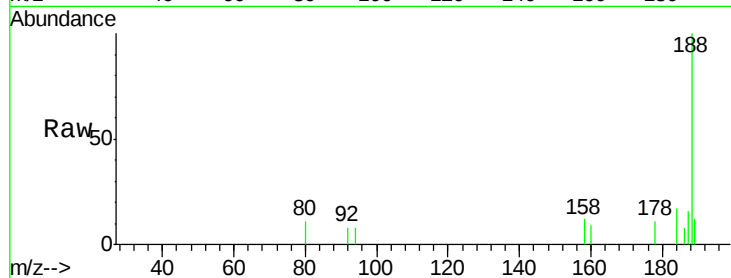
Tgt Ion:178 Resp: 434

Ion Ratio Lower Upper

178 100

176 0.0 16.2 24.4#

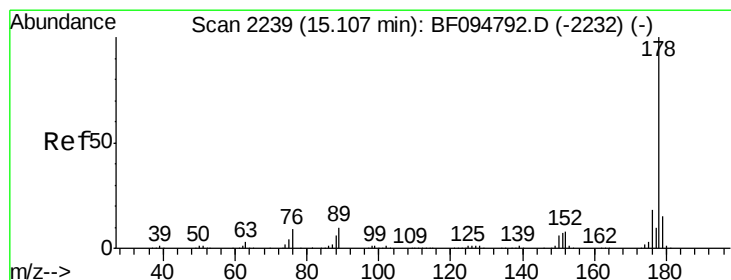
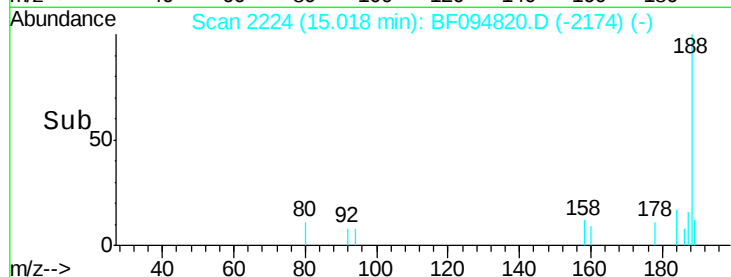
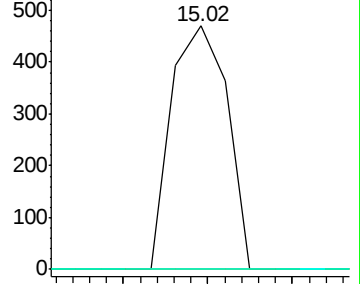
179 0.0 12.6 19.0#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 0.007 ng

RT: 15.11 min Scan# 2239

Delta R.T. -0.00 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

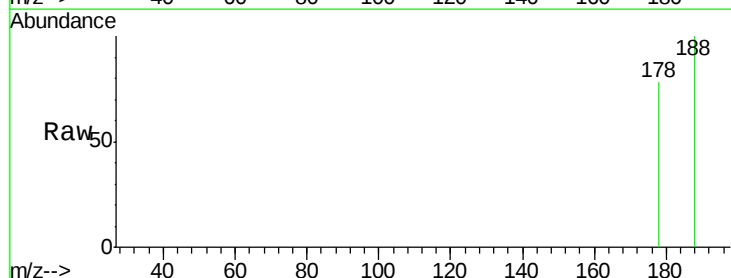
Tgt Ion:178 Resp: 109

Ion Ratio Lower Upper

178 100

176 0.0 15.8 23.8#

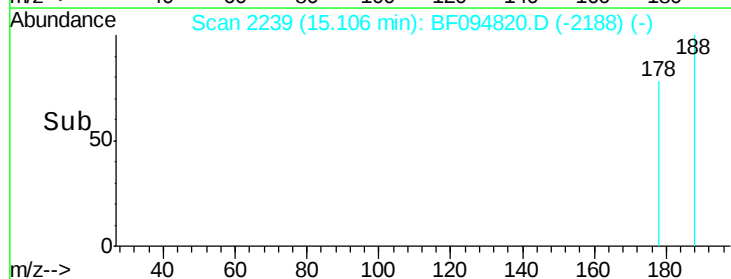
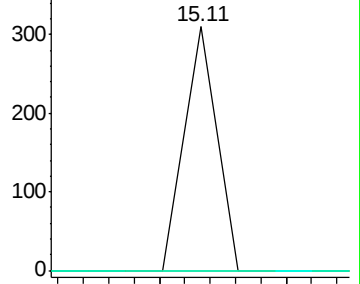
179 0.0 12.7 19.1#

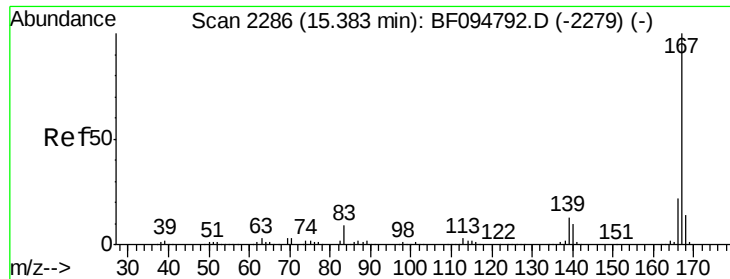


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

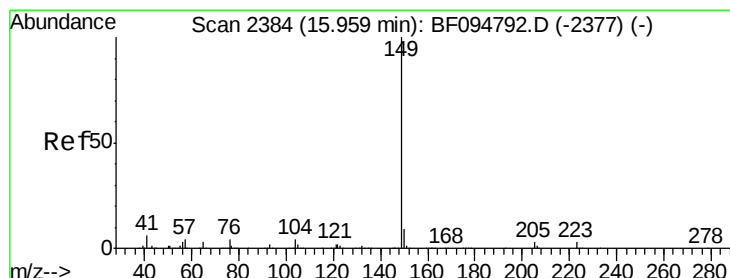
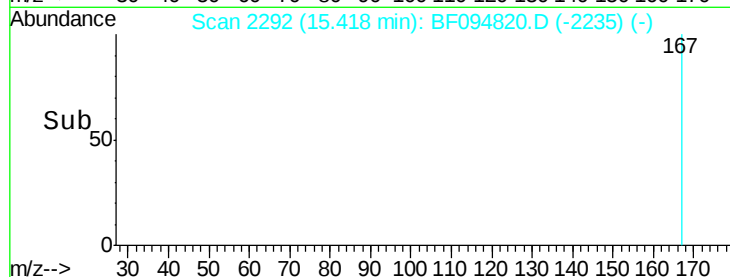
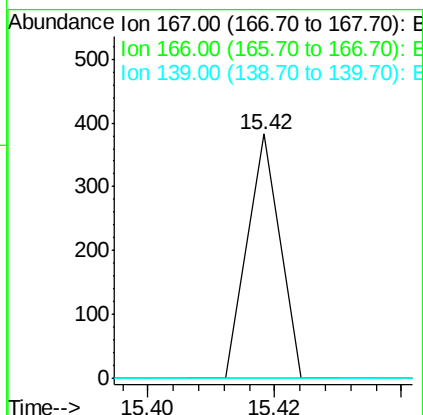
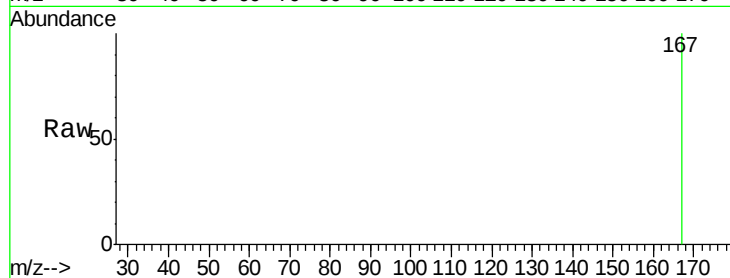




#72  
 Carbazole  
 Concen: 0.009 ng  
 RT: 15.42 min Scan# 2292  
 Delta R.T. 0.04 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

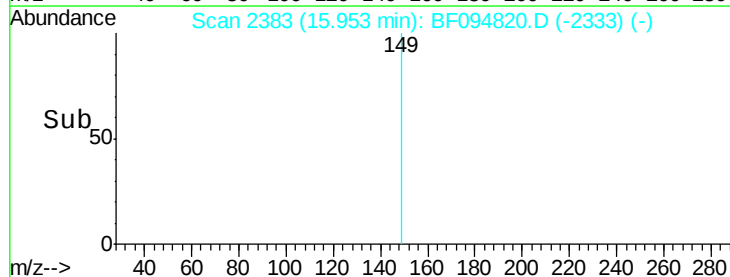
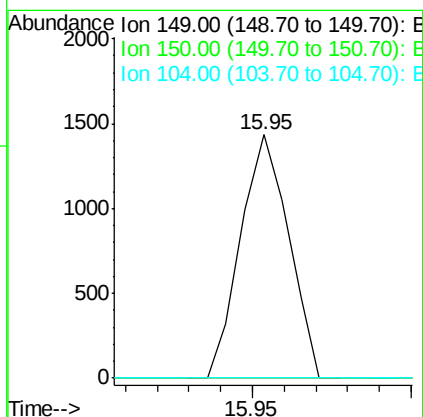
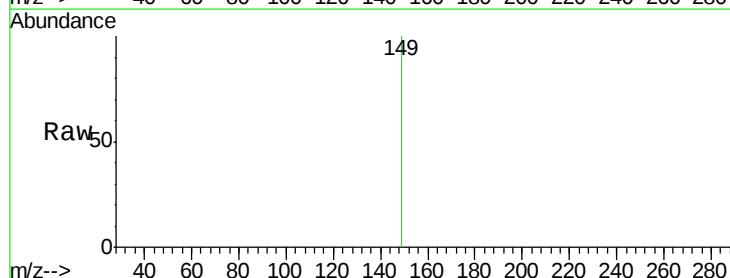
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB98658BL

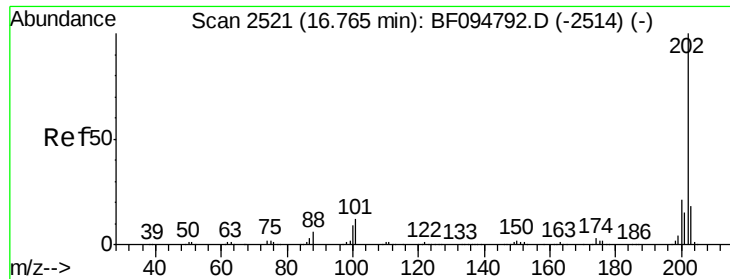
Tgt Ion:167 Resp: 135  
 Ion Ratio Lower Upper  
 167 100  
 166 0.0 18.1 27.1#  
 139 0.0 11.7 17.5#



#73  
 Di-n-butylphthalate  
 Concen: 0.083 ng  
 RT: 15.95 min Scan# 2383  
 Delta R.T. -0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

Tgt Ion:149 Resp: 1508  
 Ion Ratio Lower Upper  
 149 100  
 150 0.0 7.7 11.5#  
 104 0.0 4.0 6.0#

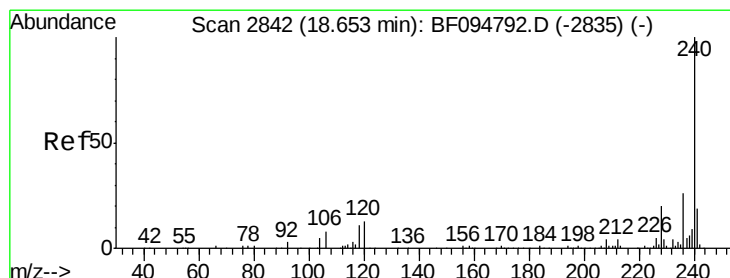
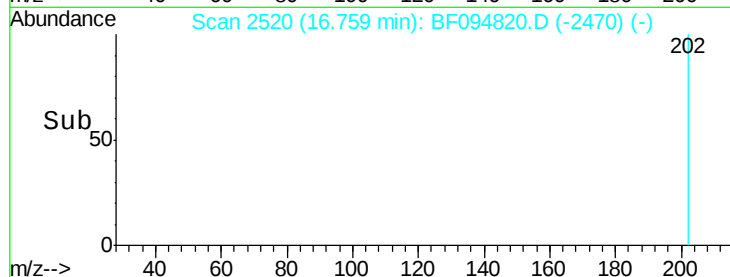
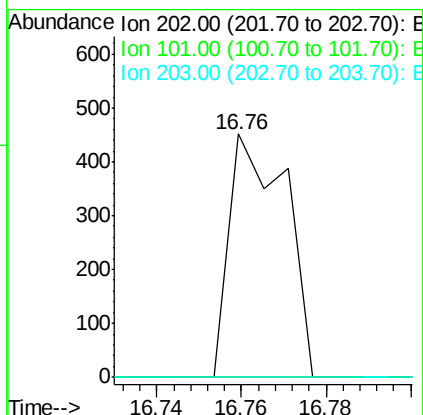
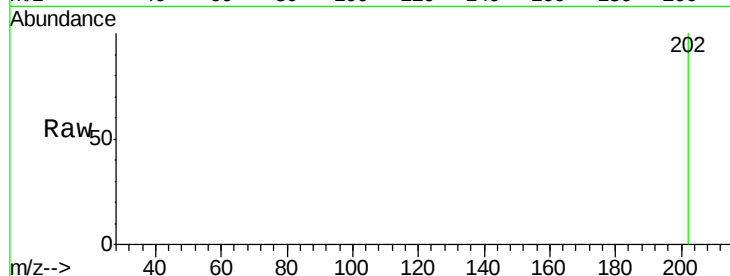




#74  
**Fluoranthene**  
 Concen: 0.026 ng  
 RT: 16.76 min Scan# 2520  
 Delta R.T. -0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

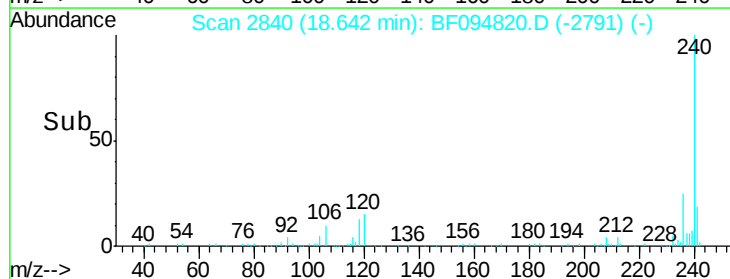
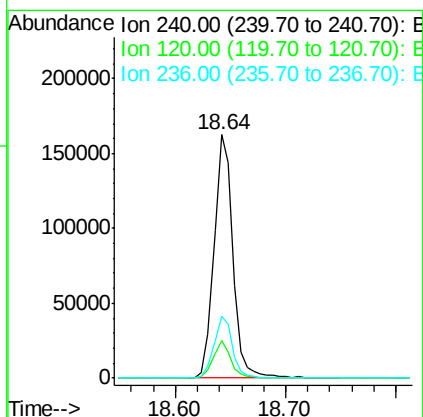
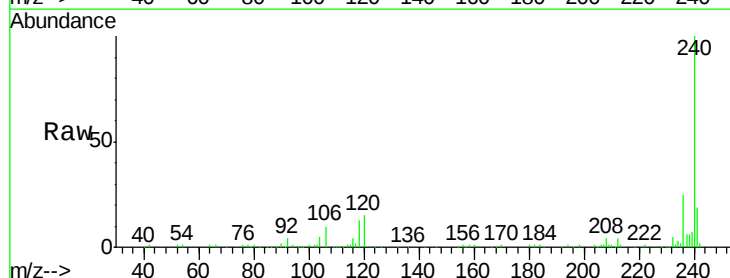
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB98658BL

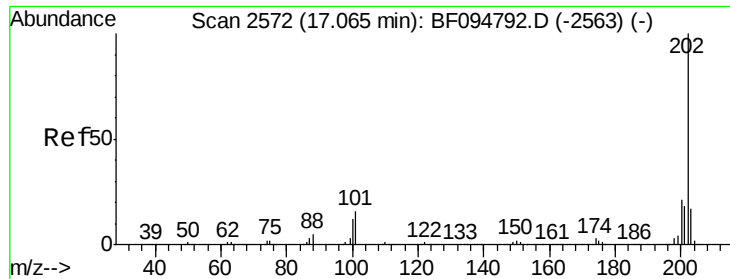
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 0.0   | 0.0   | 33.2  |
| 203     | 0.0   | 0.0   | 38.1  |



#75  
**Chrysene-d12**  
 Concen: 20.000 ng  
 RT: 18.64 min Scan# 2840  
 Delta R.T. -0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.2  | 5.8   | 8.8#  |
| 236     | 25.4  | 20.5  | 30.7  |

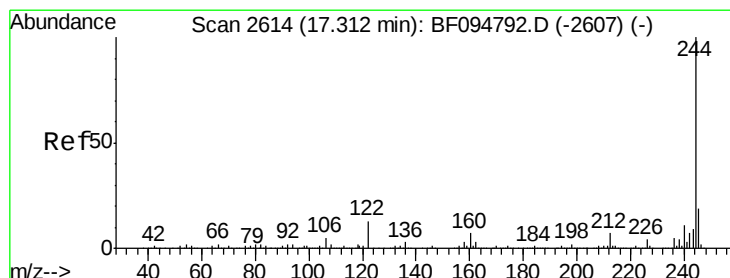
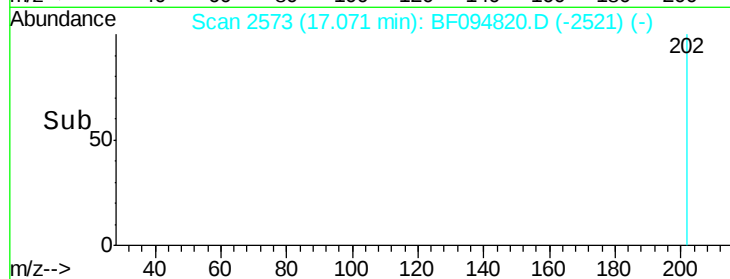
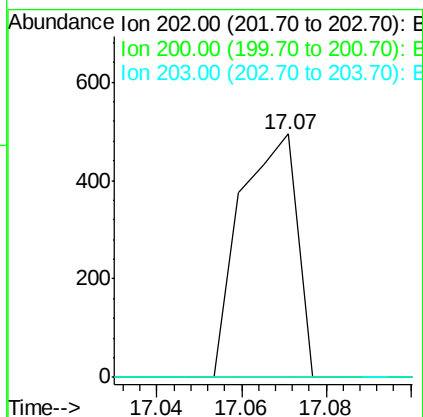
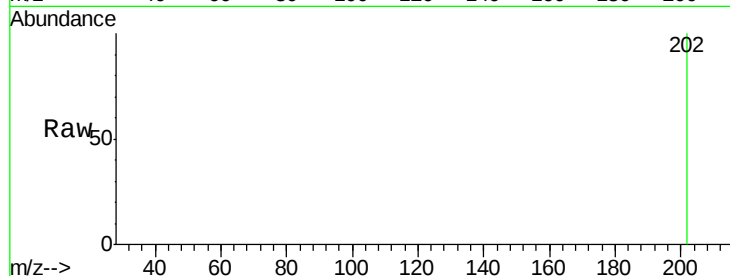




#77  
 Pyrene  
 Concen: 0.032 ng  
 RT: 17.07 min Scan# 2573  
 Delta R.T. 0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

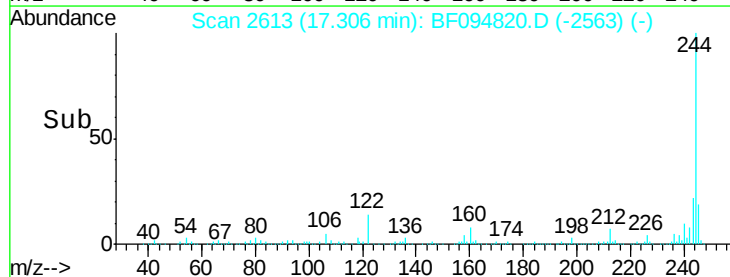
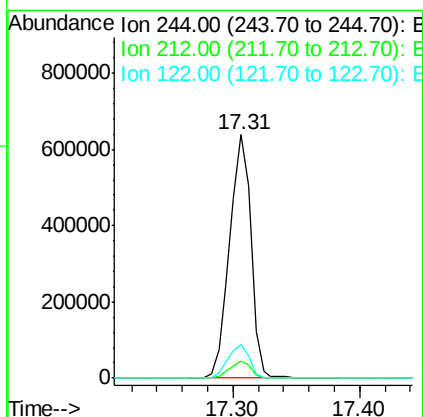
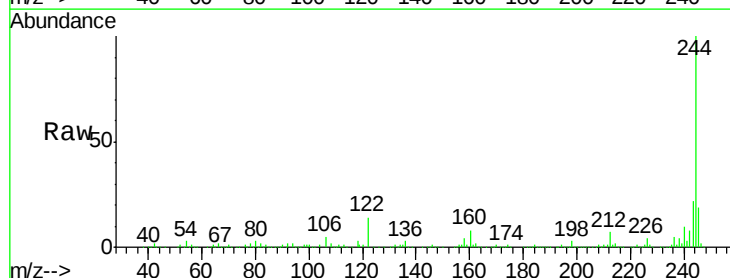
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB98658BL

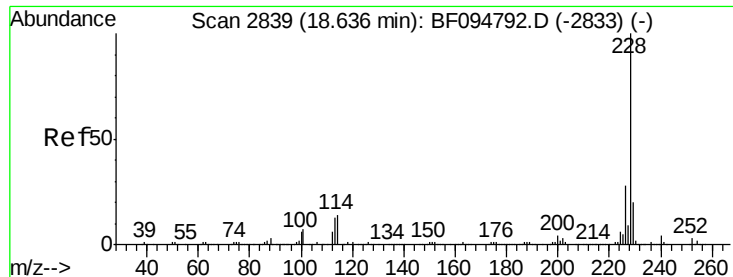
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 0.0   | 17.6  | 26.4# |
| 203     | 0.0   | 14.4  | 21.6# |



#78  
 Terphenyl-d14  
 Concen: 85.623 ng  
 RT: 17.31 min Scan# 2613  
 Delta R.T. -0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.3   | 6.0   | 9.0   |
| 122     | 13.9  | 10.3  | 15.5  |





#80

Benzo(a)anthracene

Concen: 0.061 ng

RT: 18.64 min Scan# 2839

Delta R.T. -0.00 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

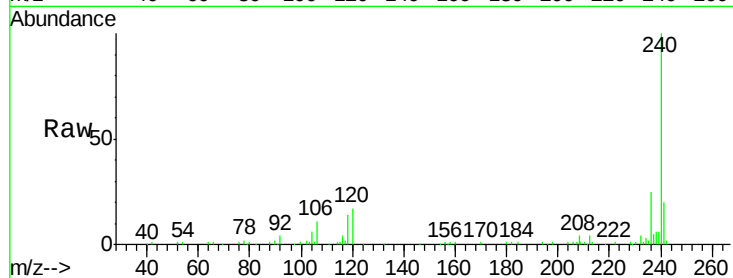
Tgt Ion:228 Resp: 681

Ion Ratio Lower Upper

228 100

226 0.0 22.6 33.8#

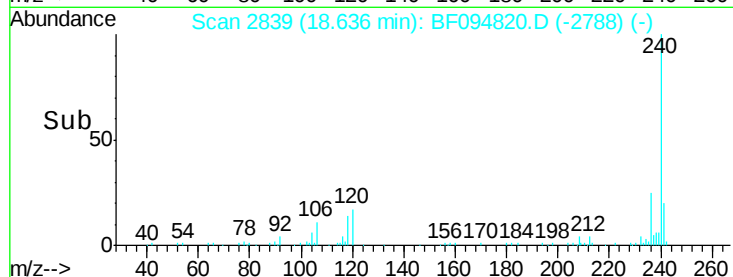
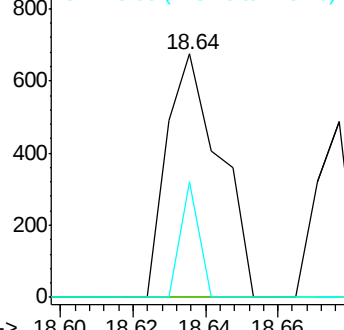
229 47.3 16.3 24.5#



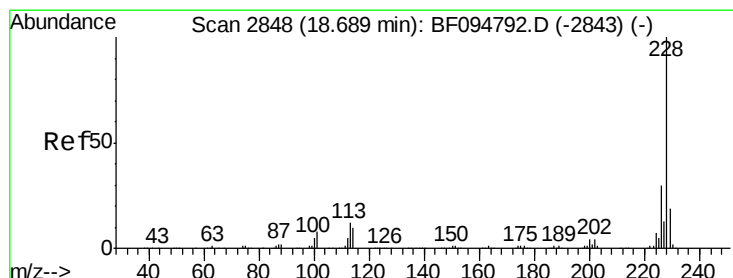
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time--> 18.60 18.62 18.64 18.66



#82

Chrysene

Concen: 0.027 ng

RT: 18.68 min Scan# 2846

Delta R.T. -0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

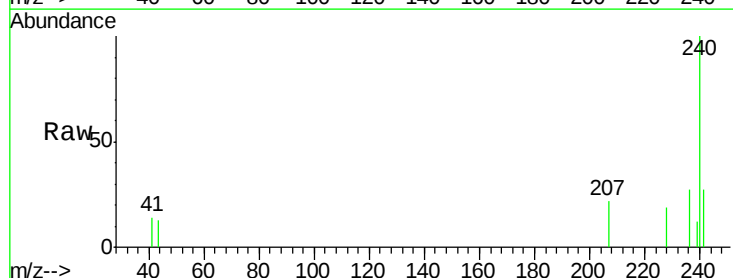
Tgt Ion:228 Resp: 285

Ion Ratio Lower Upper

228 100

226 0.0 24.9 37.3#

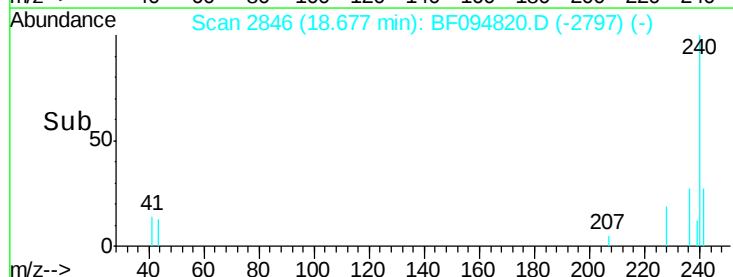
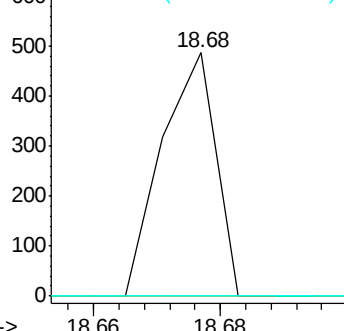
229 0.0 15.8 23.6#



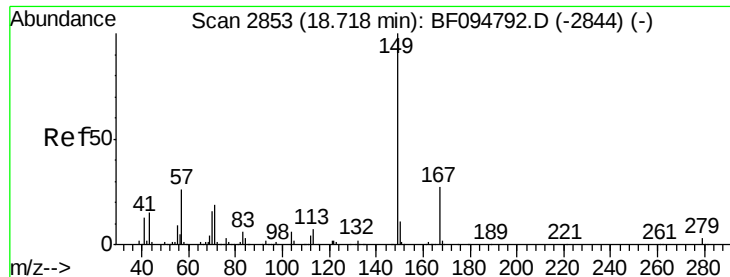
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time--> 18.66 18.68



#83

Bis(2-ethylhexyl)phthalate

Concen: 0.077 ng

RT: 18.71 min Scan# 2852

Delta R.T. -0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

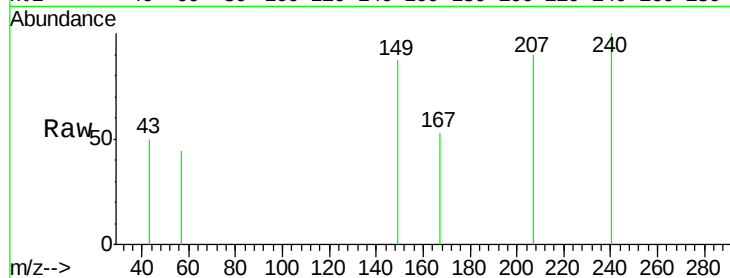
Tgt Ion:149 Resp: 728

Ion Ratio Lower Upper

149 100

167 60.7 21.0 31.4#

279 0.0 1.9 2.9#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

18.71

600

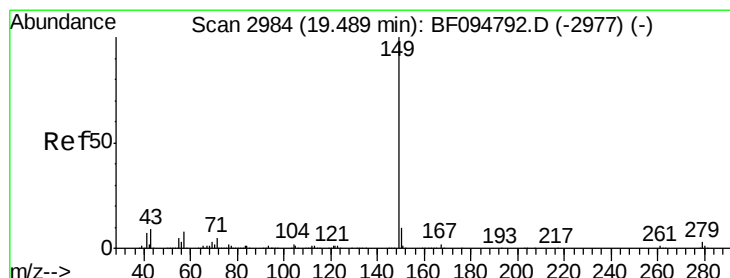
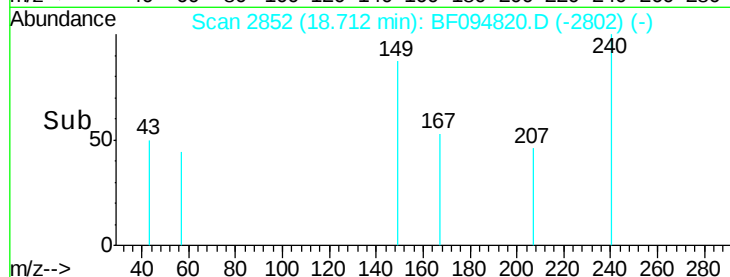
400

200

0

18.68 18.70 18.72 18.74

Time-->



#84

Di-n-octyl phthalate

Concen: 0.055 ng

RT: 19.48 min Scan# 2983

Delta R.T. -0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

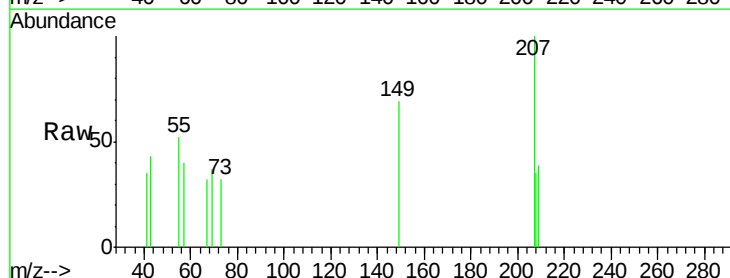
Tgt Ion:149 Resp: 859

Ion Ratio Lower Upper

149 100

167 0.0 1.2 1.8#

43 176.1 8.5 12.7#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

19.48

600

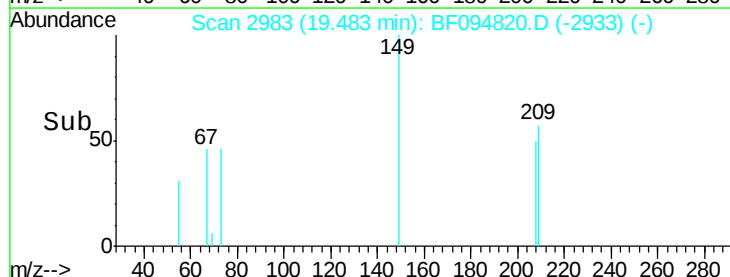
400

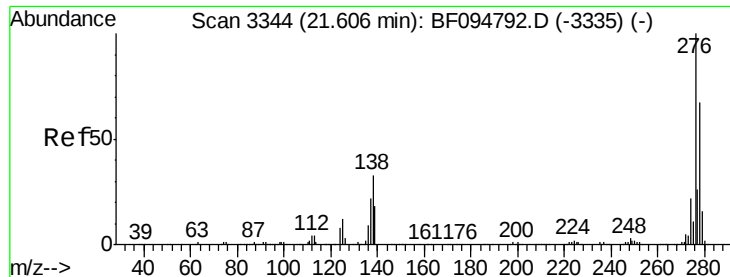
200

0

19.44 19.46 19.48 19.50

Time-->

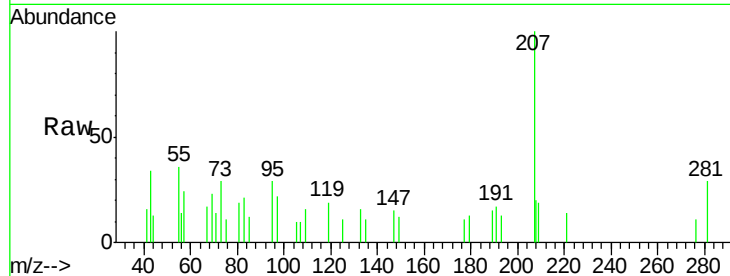




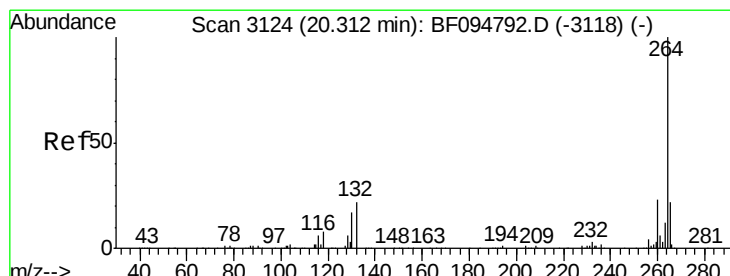
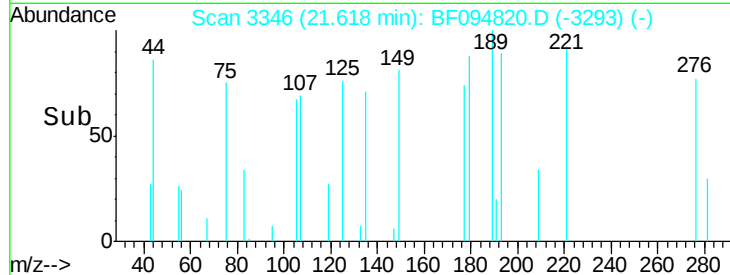
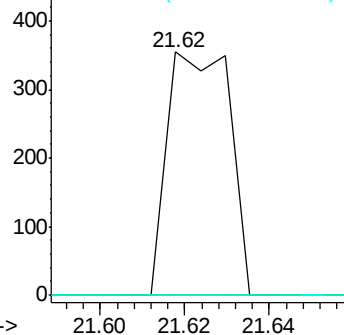
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.042 ng  
 RT: 21.62 min Scan# 3346  
 Delta R.T. 0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB98658BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.0   | 27.8  | 41.6# |
| 277     | 0.0   | 20.2  | 30.4# |

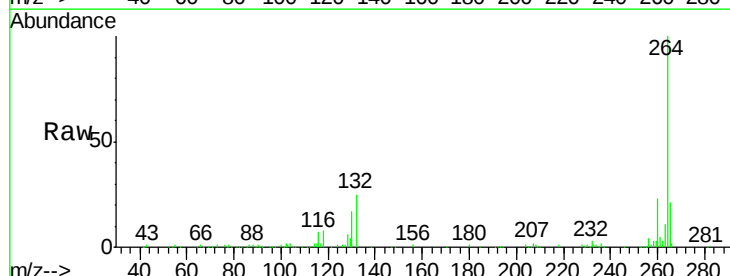


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

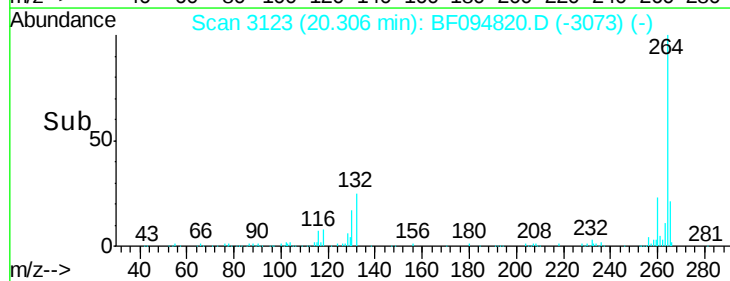
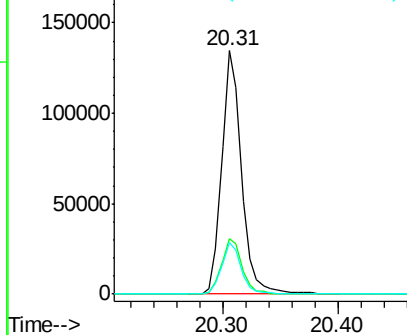


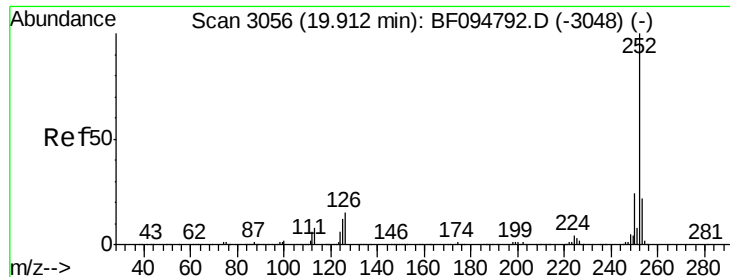
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 20.31 min Scan# 3123  
 Delta R.T. -0.01 min  
 Lab File: BF094820.D  
 Acq: 3 May 2017 6:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 19.5  | 29.3  |
| 265     | 21.1  | 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

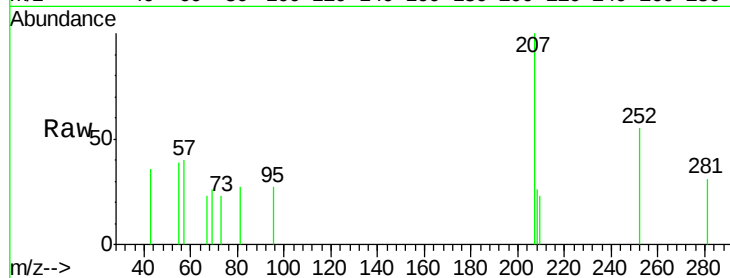




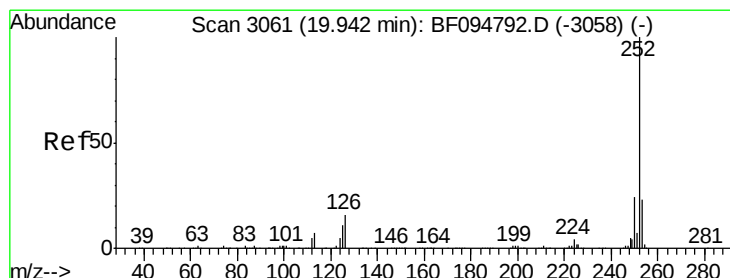
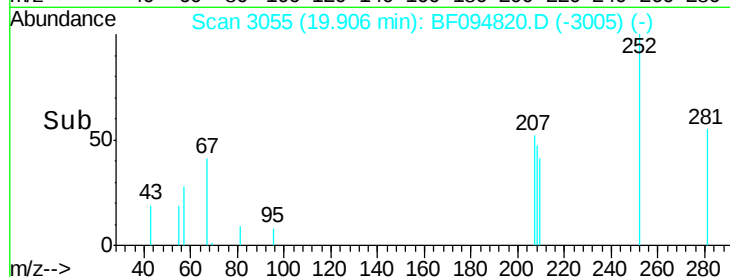
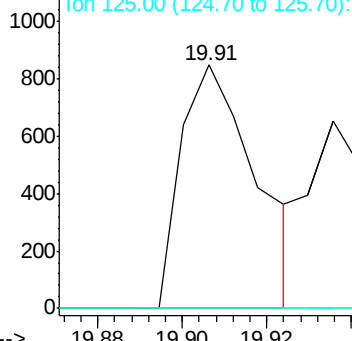
#87  
Benzo(b)fluoranthene  
Concen: 0.105 ng  
RT: 19.91 min Scan# 3055  
Delta R.T. -0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Instrument :  
BNA\_F  
ClientSampleId :  
PB98658BL

Tgt Ion:252 Resp: 1039  
Ion Ratio Lower Upper  
252 100  
253 0.0 18.1 27.1#  
125 0.0 9.8 14.8#

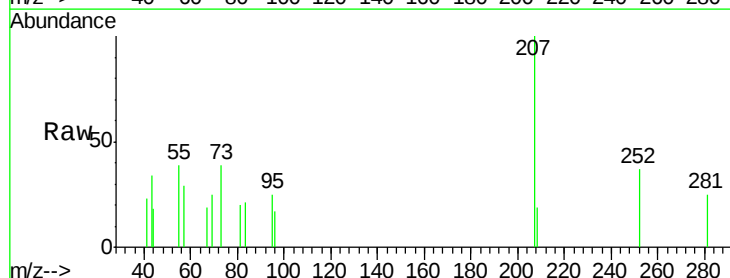


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

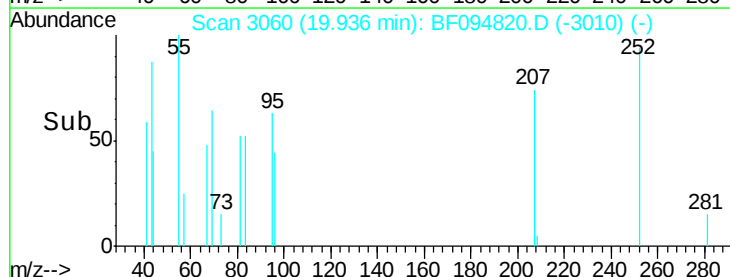
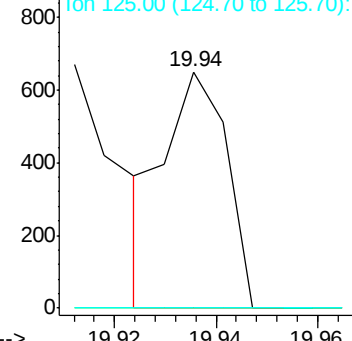


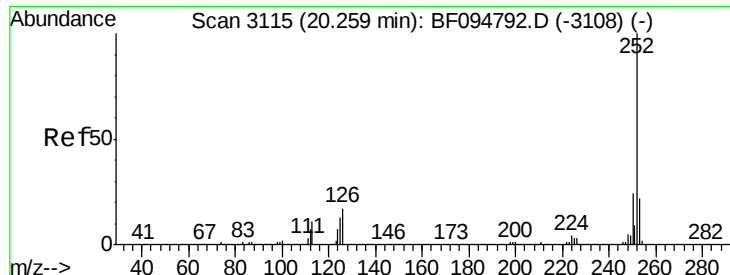
#88  
Benzo(k)fluoranthene  
Concen: 0.057 ng  
RT: 19.94 min Scan# 3060  
Delta R.T. -0.01 min  
Lab File: BF094820.D  
Acq: 3 May 2017 6:44

Tgt Ion:252 Resp: 549  
Ion Ratio Lower Upper  
252 100  
253 0.0 18.4 27.6#  
125 0.0 13.1 19.7#



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





#89

Benzo(a)pyrene

Concen: 0.026 ng

RT: 20.25 min Scan# 3114

Delta R.T. -0.01 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

Instrument :

BNA\_F

ClientSampleId :

PB98658BL

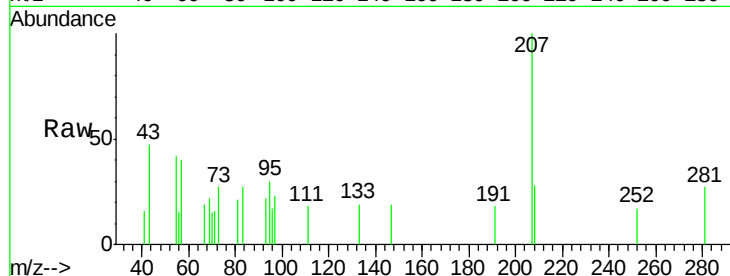
Tgt Ion: 252 Resp: 242

Ion Ratio Lower Upper

252 100

253 0.0 17.5 26.3#

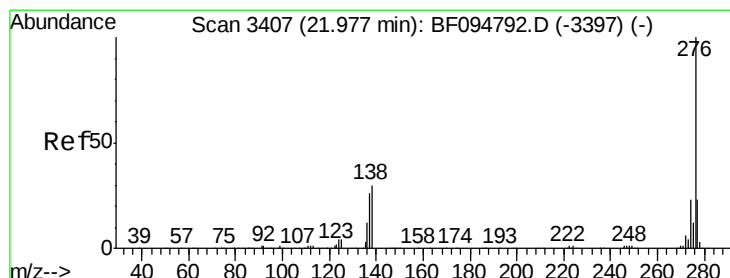
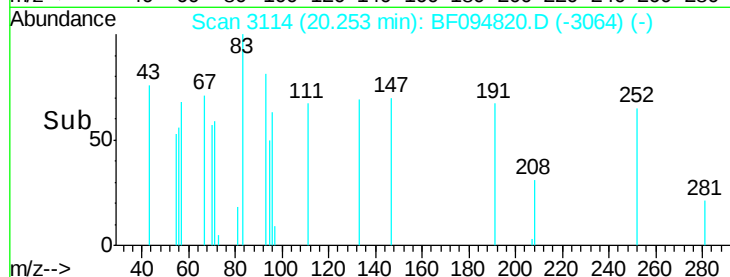
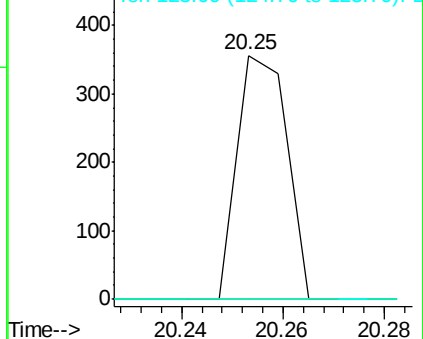
125 0.0 11.0 16.4#



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



#91

Benzo(g,h,i)perylene

Concen: 0.017 ng

RT: 22.00 min Scan# 3411

Delta R.T. 0.02 min

Lab File: BF094820.D

Acq: 3 May 2017 6:44

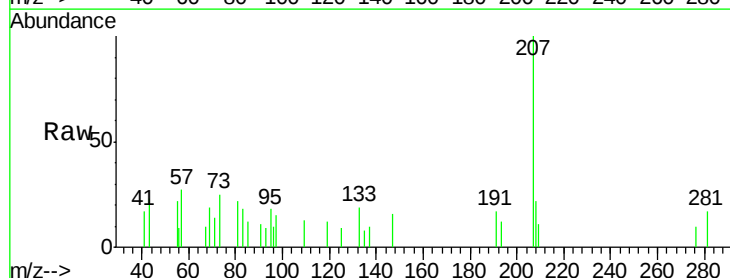
Tgt Ion: 276 Resp: 126

Ion Ratio Lower Upper

276 100

277 0.0 18.6 28.0#

138 0.0 25.4 38.0#



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

