

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091117\  
 Data File : BF098440.D  
 Acq On : 12 Sep 2017 9:19  
 Operator : SJ/JU  
 Sample : I5151-05DL 250X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 12 11:39:09 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 02:14:50 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.67  | 152  | 224187   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.95  | 136  | 899206   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.70  | 164  | 356112   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.18 | 188  | 517952   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.82 | 240  | 372218   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.22 | 264  | 371238   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |       |      |    |      |
|--------------------------|-------|-----|-------|------|----|------|
| 5) 2-Fluorophenol        | 5.30  | 112 | 6738  | 0.44 | ng | 0.02 |
| 7) Phenol-d6             | 6.33  | 99  | 10016 | 0.52 | ng | 0.01 |
| 23) Nitrobenzene-d5      | 7.24  | 82  | 5336  | 0.33 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.50 | 330 | 570   | 0.24 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.03  | 172 | 11006 | 0.52 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.76 | 244 | 6025  | 0.35 | ng | 0.00 |

## Target Compounds

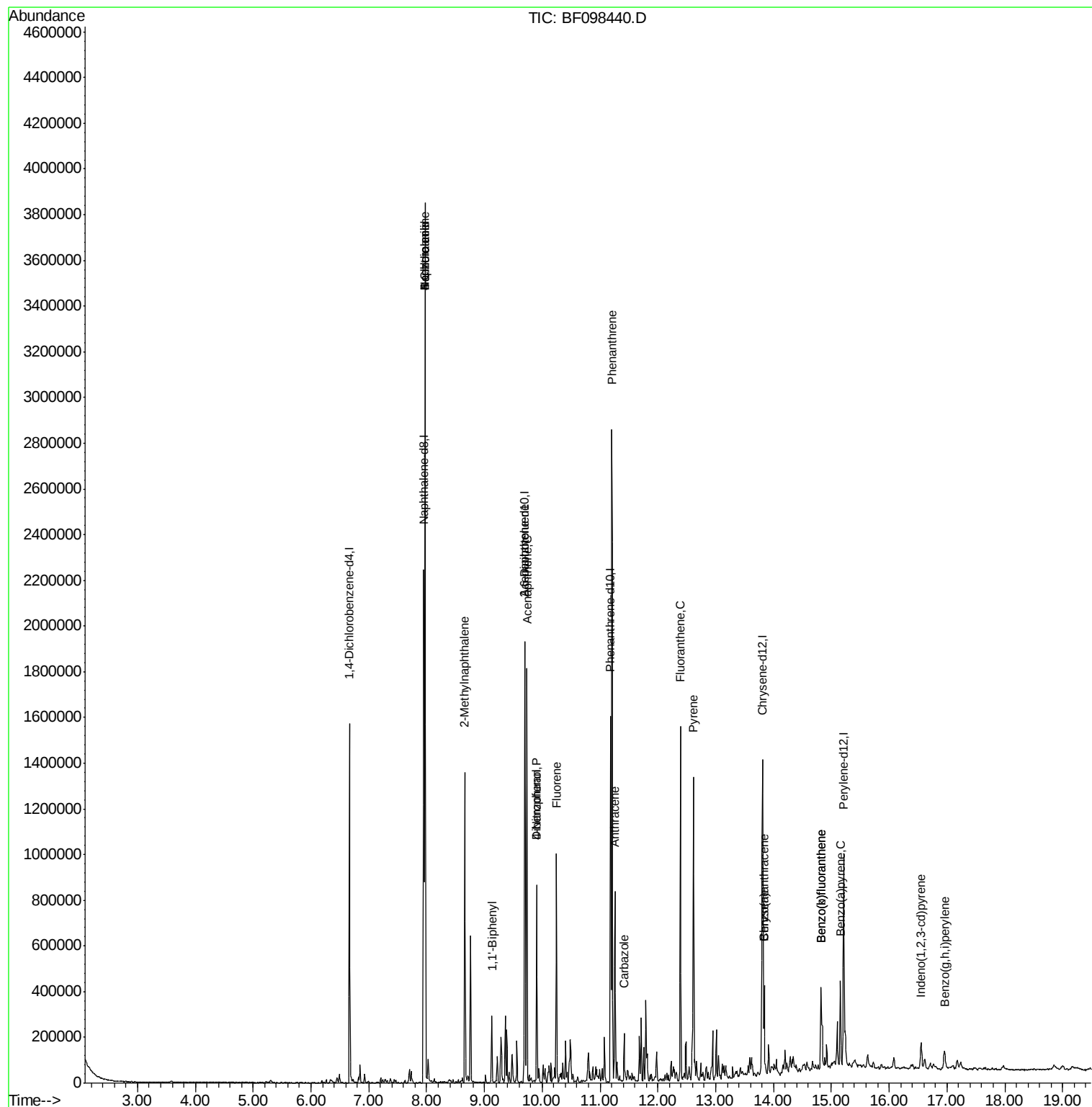
|                            |       |     |         |        |    | Qvalue |
|----------------------------|-------|-----|---------|--------|----|--------|
| 31) Naphthalene            | 7.97  | 128 | 1491861 | 33.561 | ng | 100    |
| 32) Benzoic acid           | 7.97  | 122 | 3586    | 8.285  | ng | # 1    |
| 33) 4-Chloroaniline        | 7.97  | 127 | 199287  | 11.031 | ng | # 33   |
| 37) 2-Methylnaphthalene    | 8.66  | 142 | 306591  | 11.386 | ng | 99     |
| 45) 1,1'-Biphenyl          | 9.13  | 154 | 90173   | 2.829  | ng | 97     |
| 50) 2,6-Dinitrotoluene     | 9.70  | 165 | 51603   | 9.113  | ng | # 34   |
| 51) Acenaphthene           | 9.73  | 154 | 345196  | 16.045 | ng | 98     |
| 54) Dibenzofuran           | 9.90  | 168 | 272076  | 9.599  | ng | 98     |
| 55) 4-Nitrophenol          | 9.90  | 139 | 105437  | 26.849 | ng | # 27   |
| 57) Fluorene               | 10.25 | 166 | 234124  | 9.980  | ng | 98     |
| 70) Phenanthrene           | 11.20 | 178 | 980886  | 35.723 | ng | 99     |
| 71) Anthracene             | 11.26 | 178 | 276418  | 9.805  | ng | 98     |
| 72) Carbazole              | 11.42 | 167 | 70988   | 2.702  | ng | 99     |
| 74) Fluoranthene           | 12.39 | 202 | 579612  | 21.086 | ng | 99     |
| 77) Pyrene                 | 12.62 | 202 | 476707  | 16.235 | ng | 99     |
| 80) Benzo(a)anthracene     | 13.84 | 228 | 132091  | 6.053  | ng | 96     |
| 82) Chrysene               | 13.84 | 228 | 132091  | 5.988  | ng | 97     |
| 85) Indeno(1,2,3-cd)pyrene | 16.55 | 276 | 61098   | 3.948  | ng | 94     |
| 87) Benzo(b)fluoranthene   | 14.82 | 252 | 238188  | 10.204 | ng | 96     |
| 88) Benzo(k)fluoranthene   | 14.82 | 252 | 238188  | 10.930 | ng | 96     |
| 89) Benzo(a)pyrene         | 15.16 | 252 | 147871  | 7.111  | ng | 97     |
| 91) Benzo(g,h,i)perylene   | 16.96 | 276 | 56605   | 3.720  | ng | 91     |

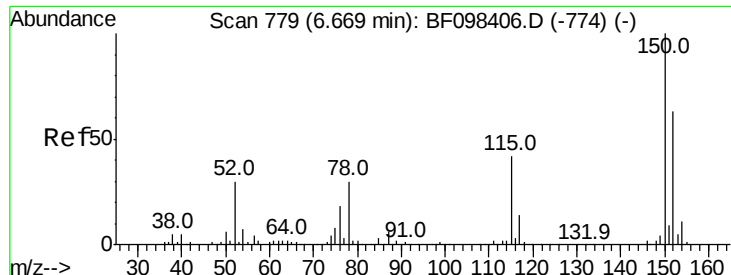
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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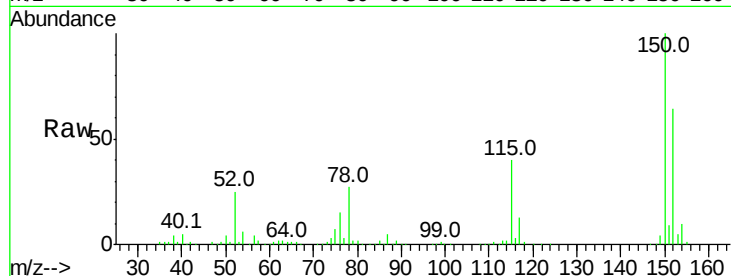


#1

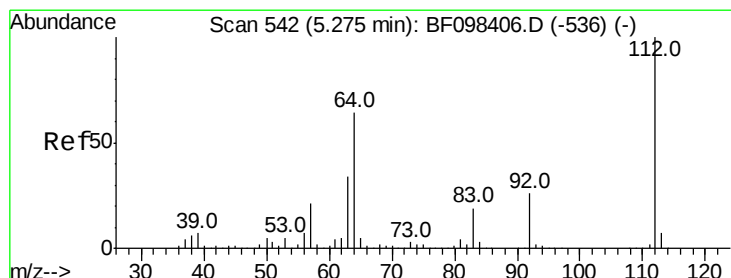
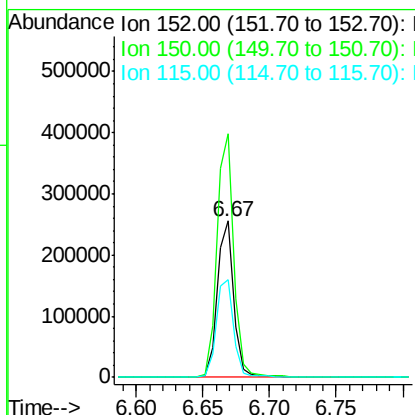
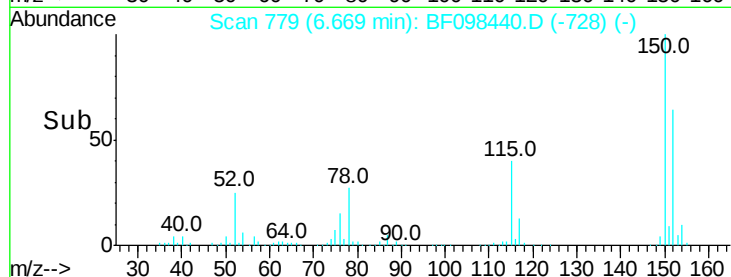
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.67 min Scan# 779  
 Delta R.T. 0.00 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.9 | 126.2 | 189.2 |
| 115     | 62.3  | 52.2  | 78.2  |



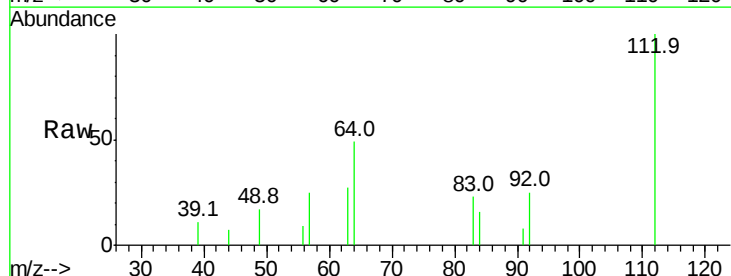
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



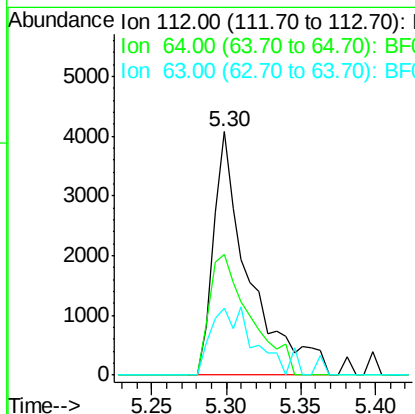
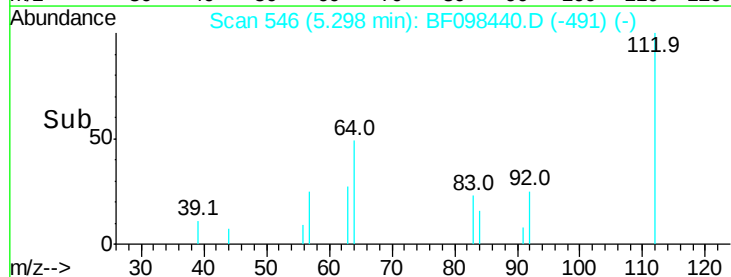
#5

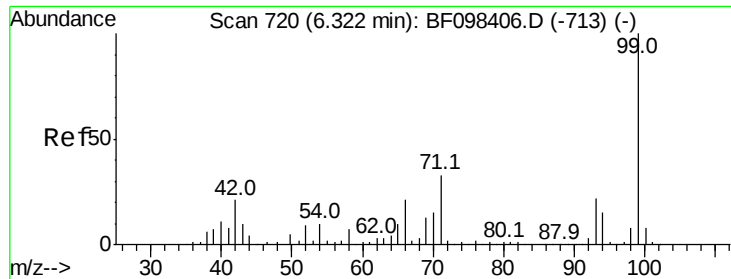
2-Fluorophenol  
 Concen: 0.444 ng  
 RT: 5.30 min Scan# 546  
 Delta R.T. 0.02 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 49.4  | 46.0  | 69.0  |
| 63      | 27.3  | 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: 0.520 ng

RT: 6.33 min Scan# 722

Delta R.T. 0.01 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

Instrument :

BNA\_F

ClientSampled :

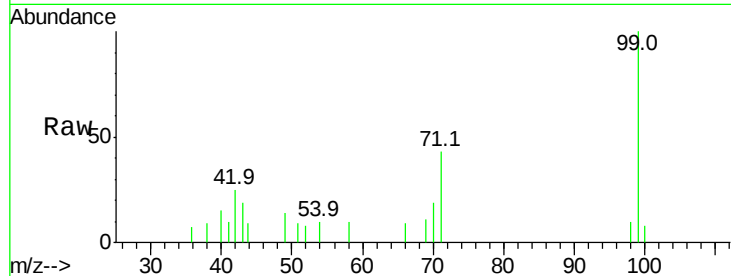
Tot Ion: 99 Resp: 10016

Ion Ratio Lower Upper

99 100

42 25.0 13.5 20.3#

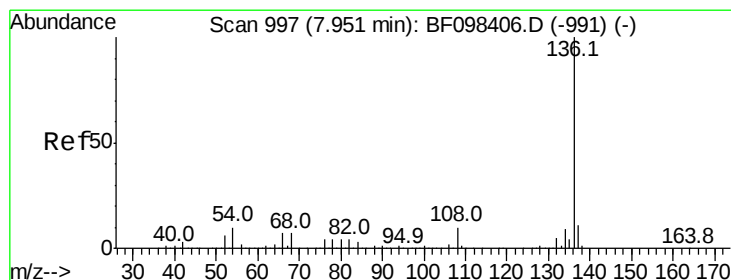
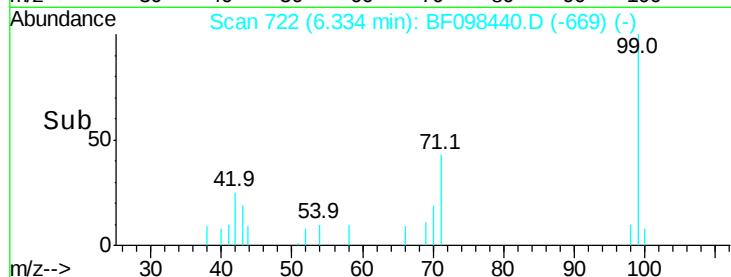
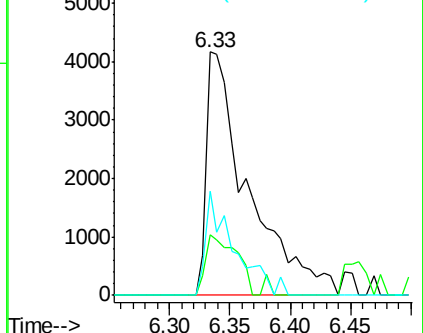
71 42.7 24.5 36.7#



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.95 min Scan# 997

Delta R.T. 0.00 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

Tgt Ion: 136 Resp: 899206

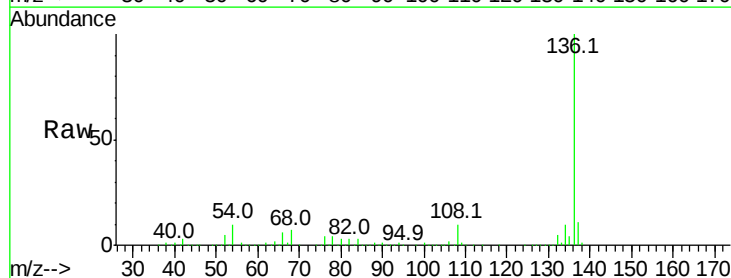
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 10.3 4.9 7.3#

68 7.5 4.1 6.1#

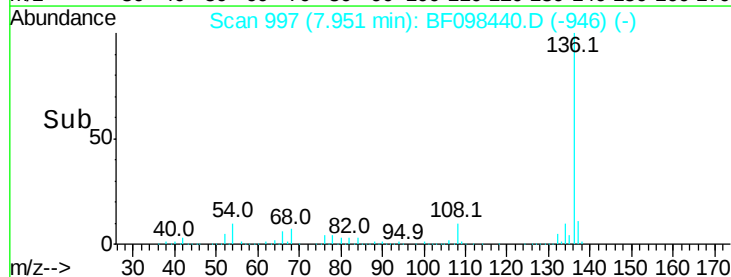
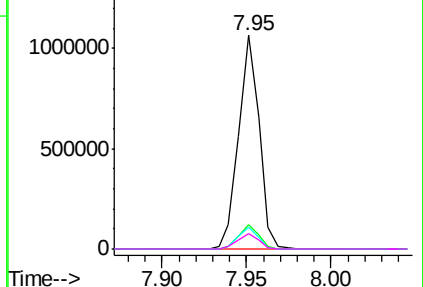


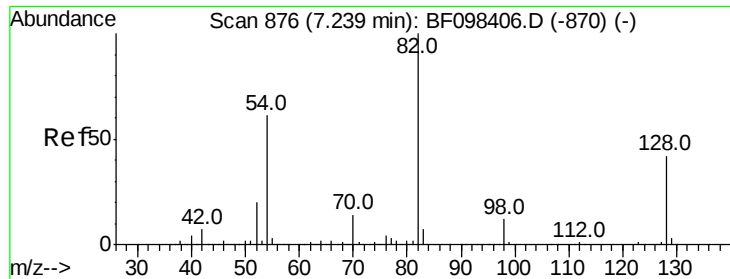
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

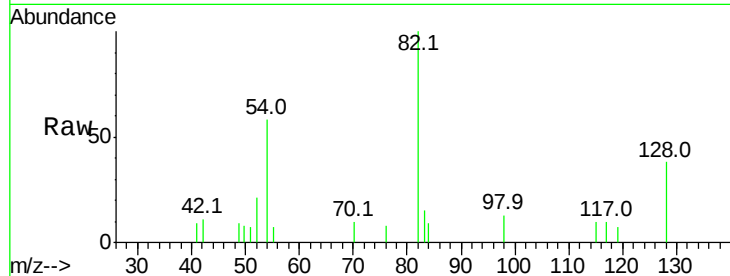




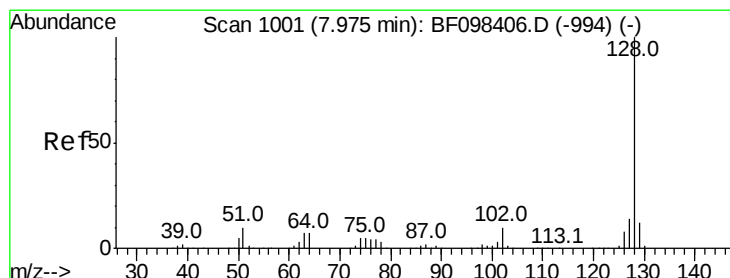
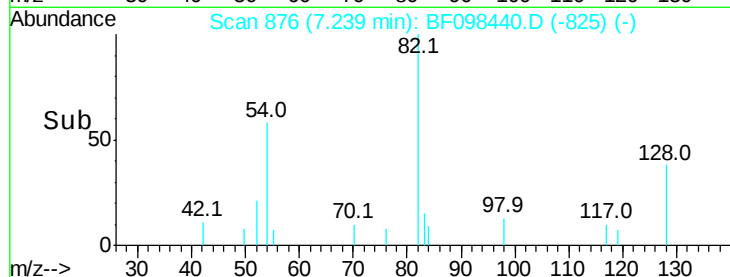
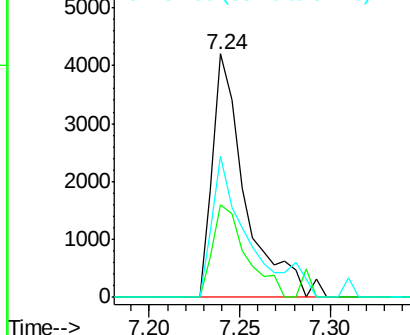
#23  
Nitrobenzene-d5  
Concen: 0.331 ng  
RT: 7.24 min Scan# 876  
Delta R.T. 0.00 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 5336  
Ion Ratio Lower Upper  
82 100  
128 38.0 34.0 51.0  
54 57.8 42.2 63.2

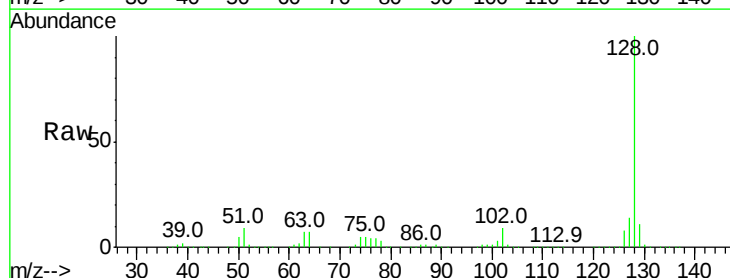


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

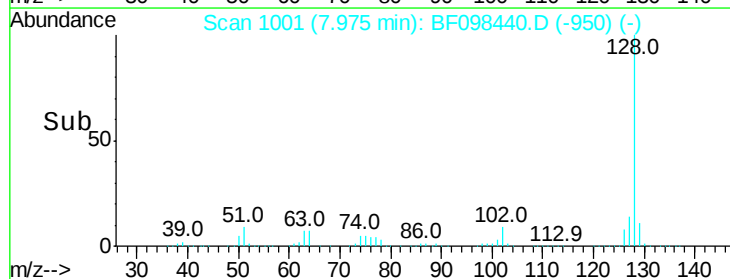
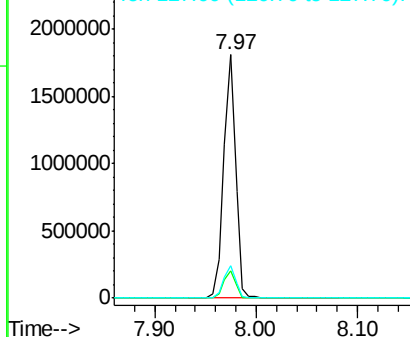


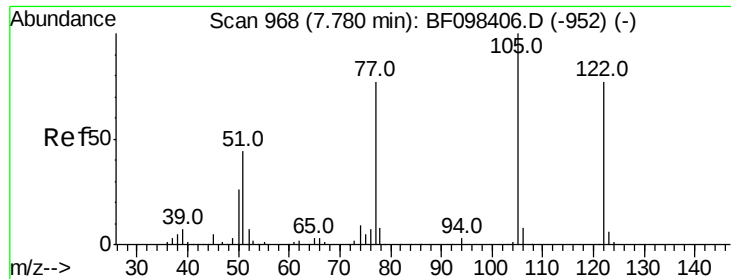
#31  
Naphthalene  
Concen: 33.561 ng  
RT: 7.97 min Scan# 1001  
Delta R.T. 0.00 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

Tgt Ion:128 Resp: 1491861  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.0 13.6  
127 13.6 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

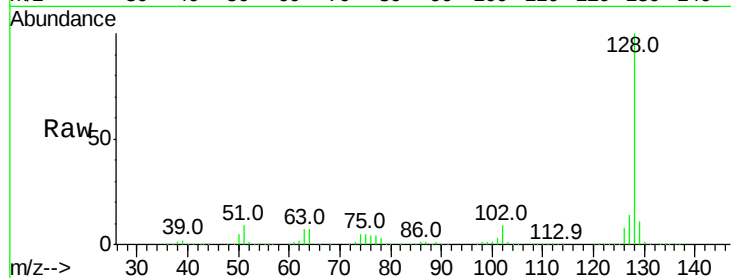




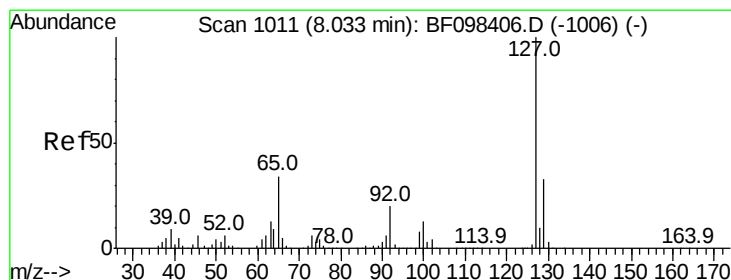
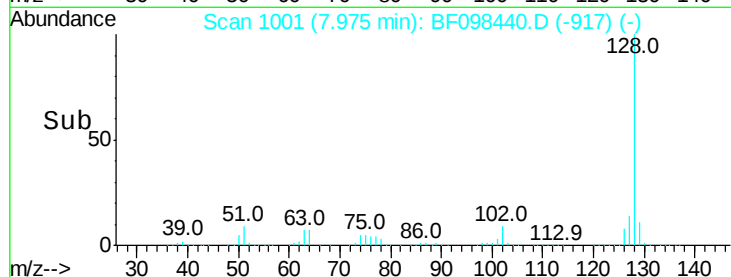
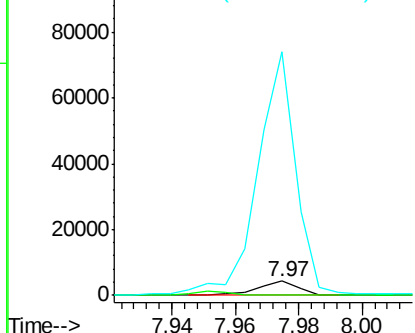
#32  
Benzoic acid  
Concen: 8.285 ng  
RT: 7.97 min Scan# 1001  
Delta R.T. 0.19 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:122 Resp: 3586  
Ion Ratio Lower Upper  
122 100  
105 7.4 103.3 143.3#  
77 1721.1 73.7 113.7#

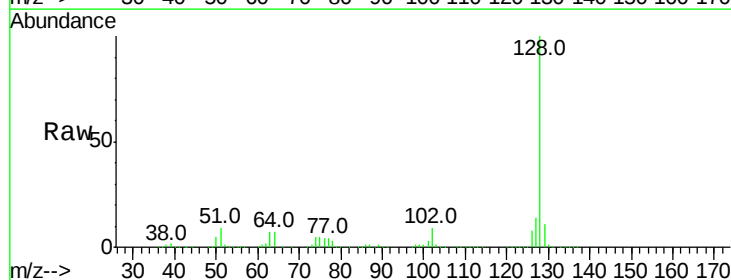


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

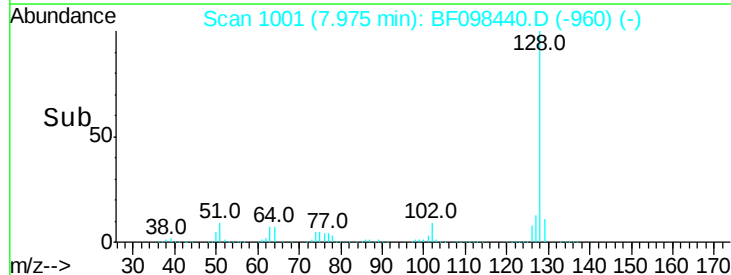
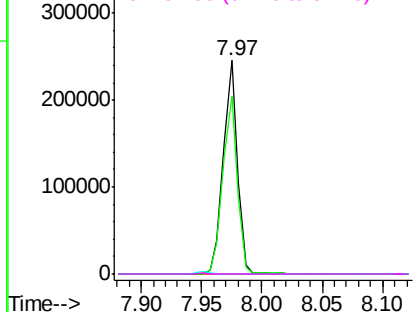


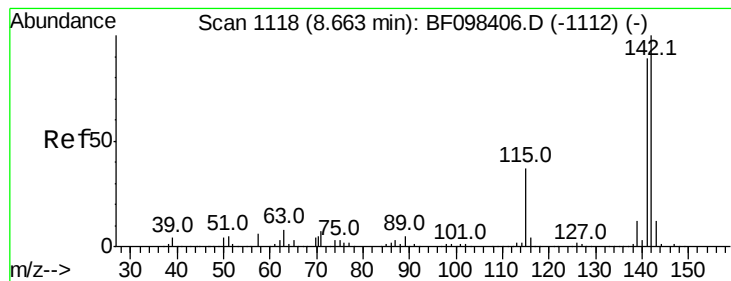
#33  
4-Chloroaniline  
Concen: 11.031 ng  
RT: 7.97 min Scan# 1001  
Delta R.T. -0.06 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

Tgt Ion:127 Resp: 199287  
Ion Ratio Lower Upper  
127 100  
129 83.2 26.2 39.2#  
65 0.0 27.8 41.8#  
92 0.0 16.8 25.2#



Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0

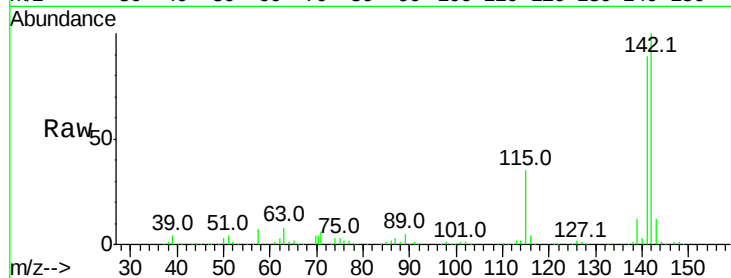




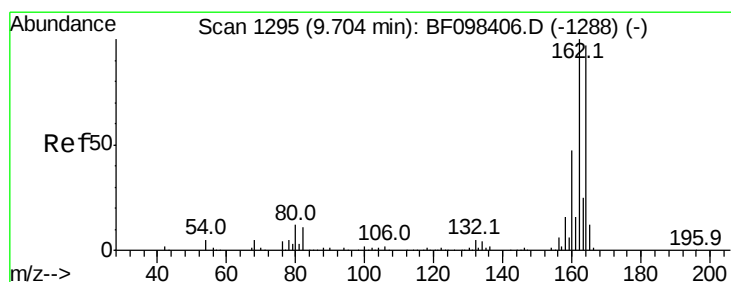
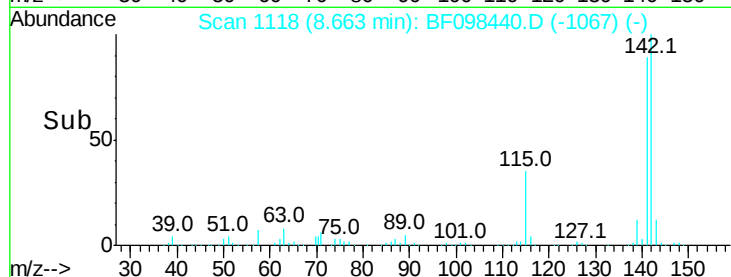
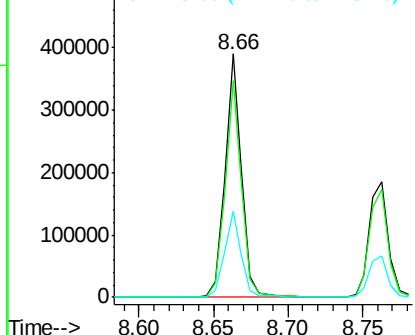
#37  
 2-Methylnaphthalene  
 Concen: 11.386 ng  
 RT: 8.66 min Scan# 1118  
 Delta R.T. 0.00 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.3  | 71.3  | 106.9 |
| 115     | 35.4  | 27.1  | 40.7  |

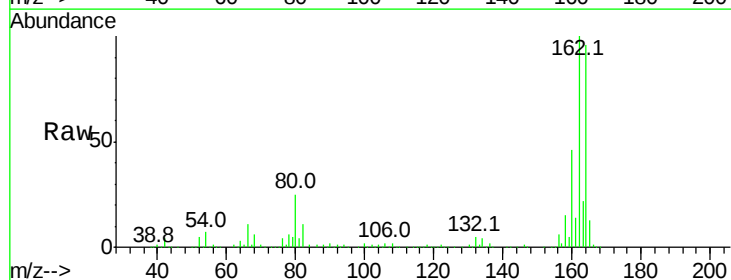


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

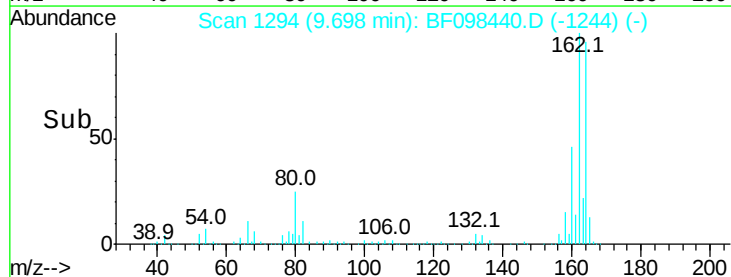
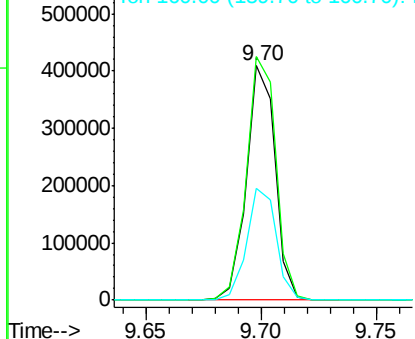


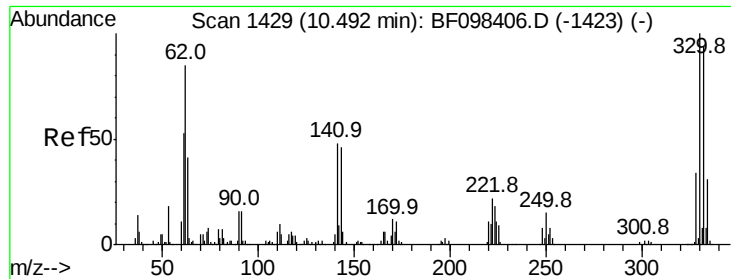
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.70 min Scan# 1294  
 Delta R.T. -0.01 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.8 | 82.6  | 123.8 |
| 160     | 47.4  | 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

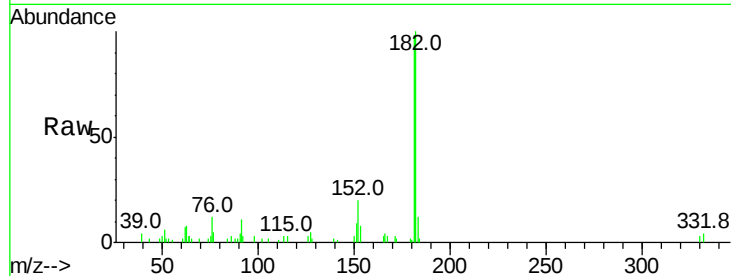




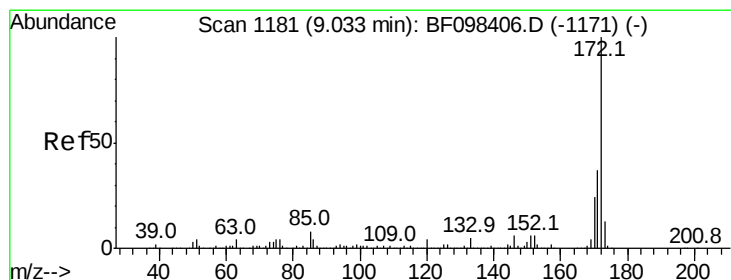
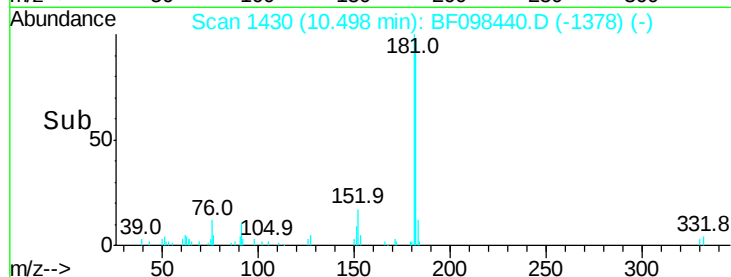
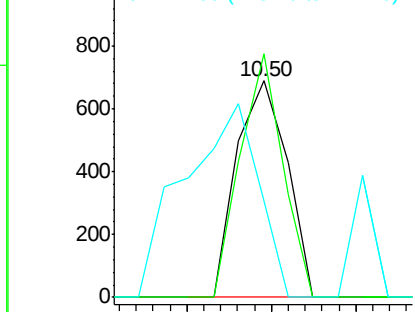
#41  
 2,4,6-Tribromophenol  
 Concen: 0.240 ng  
 RT: 10.50 min Scan# 1430  
 Delta R.T. 0.01 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 570  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 76.6 115.0  
 141 132.1 31.4 47.2#

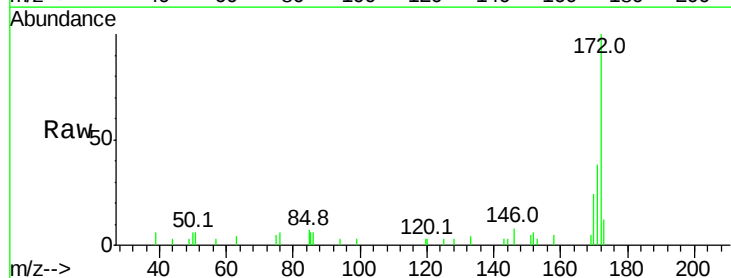


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

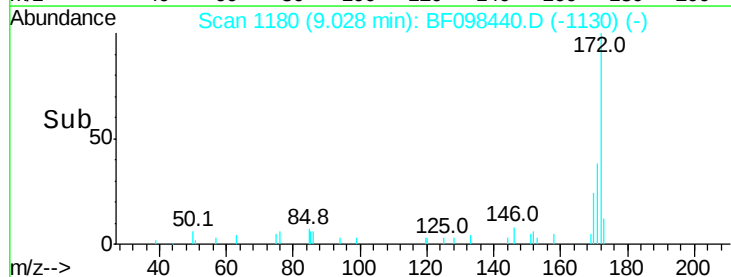
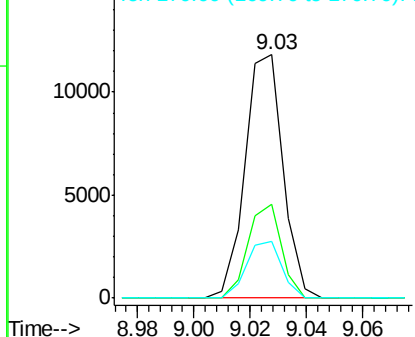


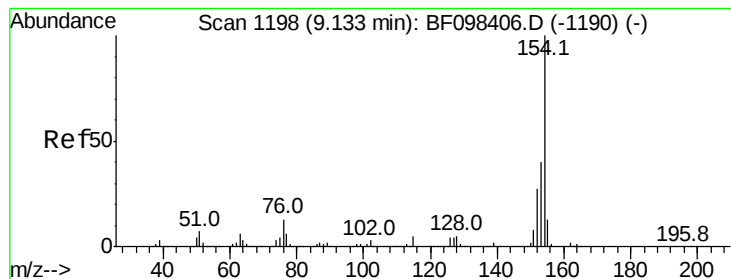
#44  
 2-Fluorobiphenyl  
 Concen: 0.524 ng  
 RT: 9.03 min Scan# 1180  
 Delta R.T. -0.01 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

Tgt Ion:172 Resp: 11006  
 Ion Ratio Lower Upper  
 172 100  
 171 38.3 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: 2.829 ng

RT: 9.13 min Scan# 1197

Delta R.T. -0.01 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

Instrument :

BNA\_F

ClientSampled :

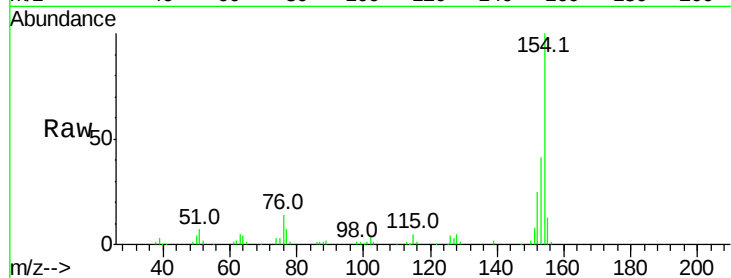
Tot Ion:154 Resp: 90173

Ion Ratio Lower Upper

154 100

153 40.5 21.2 61.2

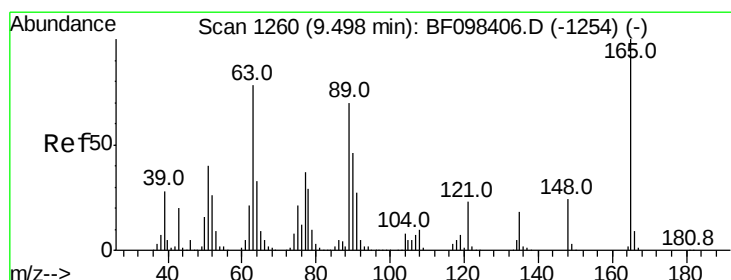
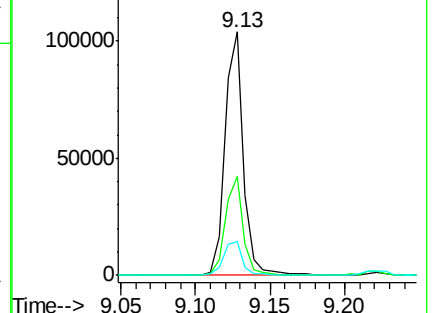
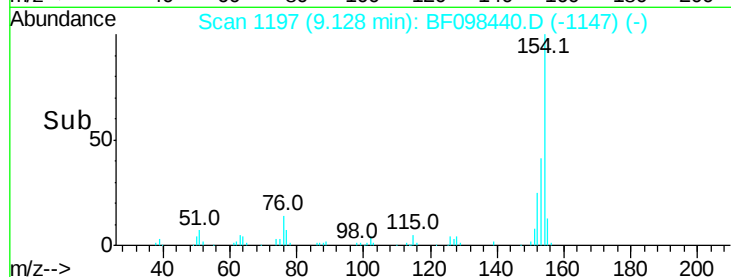
76 14.0 0.0 29.9



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



#50

2,6-Dinitrotoluene

Concen: 9.113 ng

RT: 9.70 min Scan# 1294

Delta R.T. 0.20 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

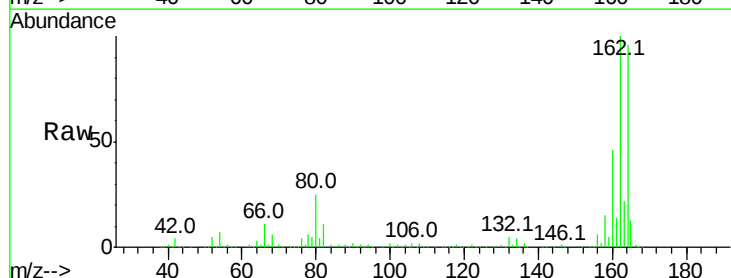
Tgt Ion:165 Resp: 51603

Ion Ratio Lower Upper

165 100

63 1.5 34.3 51.5#

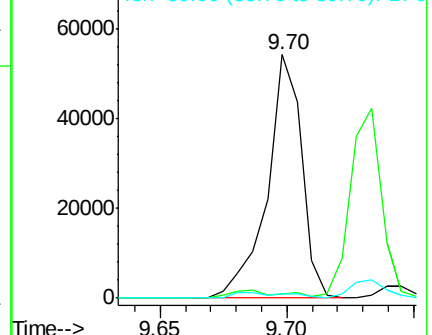
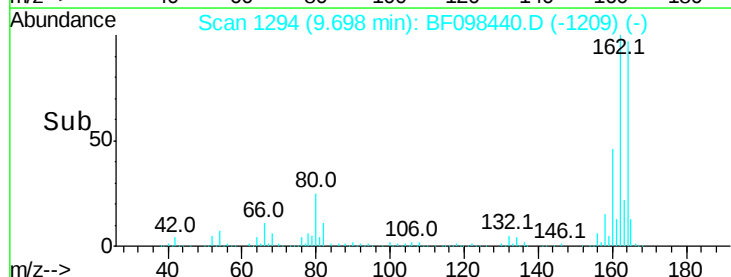
89 1.5 37.1 55.7#

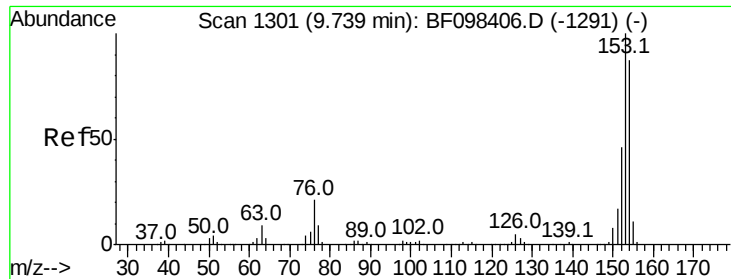


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 16.045 ng

RT: 9.73 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

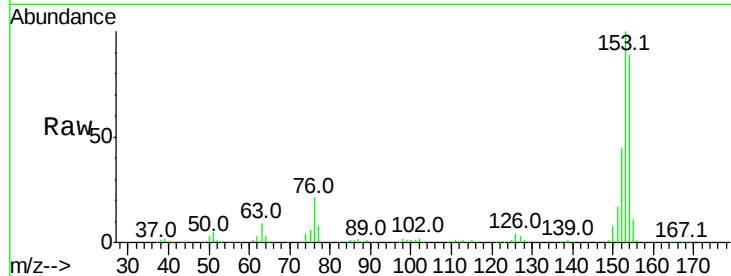
Tot Ion:154 Resp: 345196

Ion Ratio Lower Upper

154 100

153 112.6 90.5 135.7

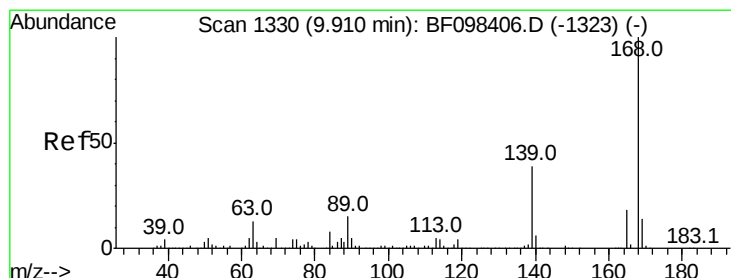
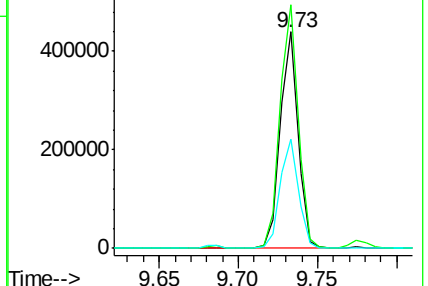
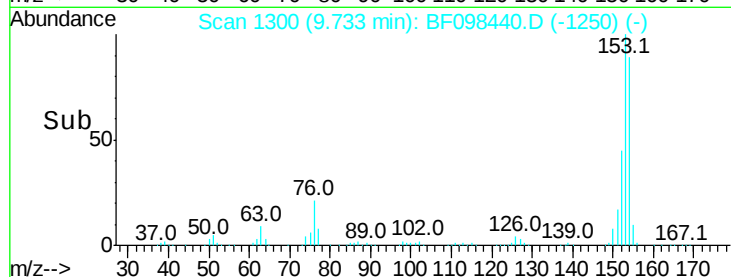
152 50.6 43.6 65.4



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



#54

Dibenzofuran

Concen: 9.599 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

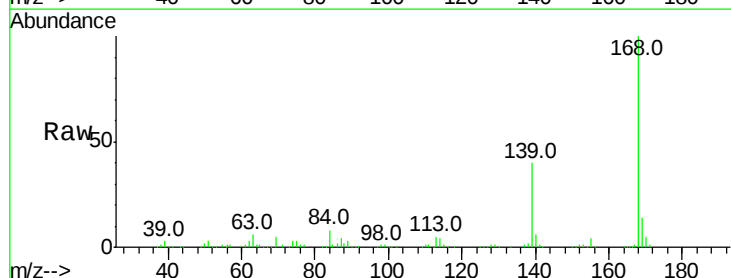
Tgt Ion:168 Resp: 272076

Ion Ratio Lower Upper

168 100

139 39.6 30.6 45.8

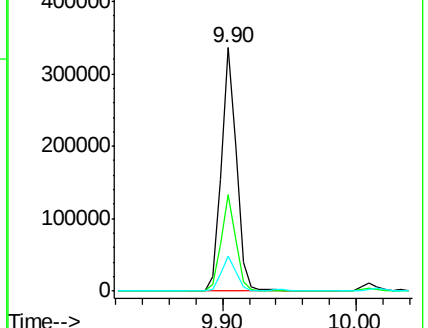
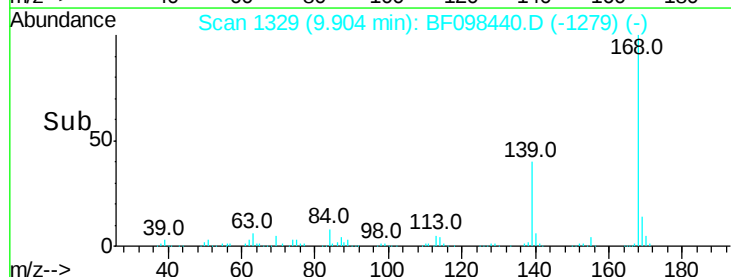
169 14.2 10.8 16.2

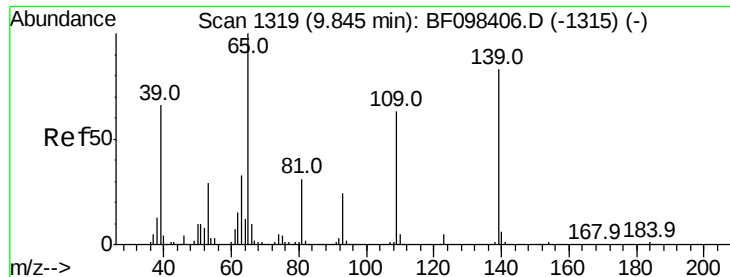


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

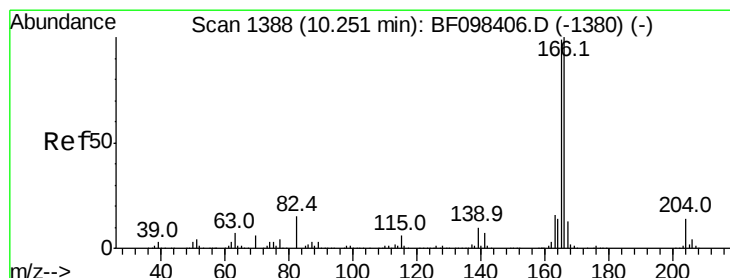
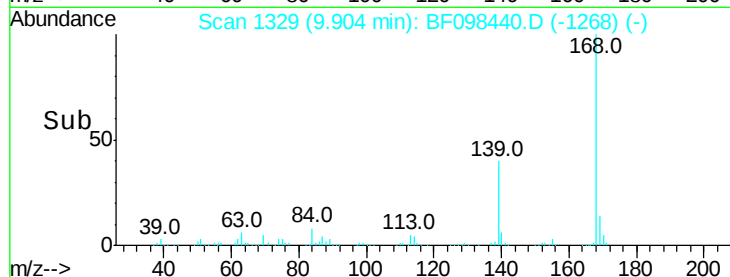
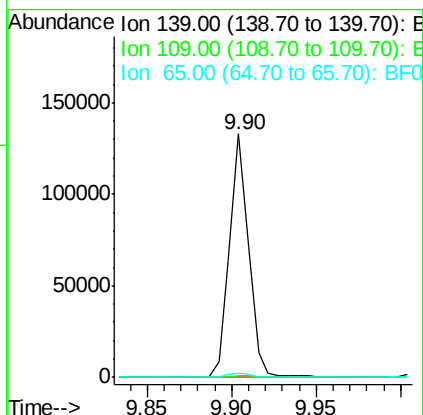
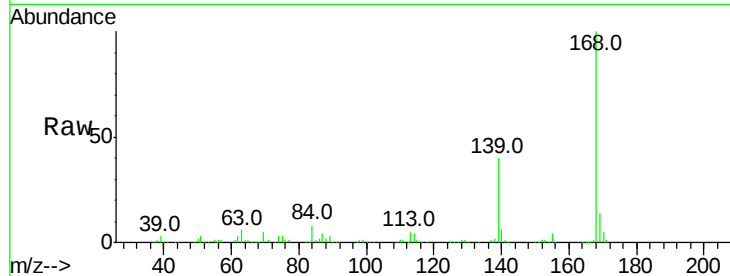




#55  
4-Nitrophenol  
Concen: 26.849 ng  
RT: 9.90 min Scan# 1329  
Delta R.T. 0.06 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

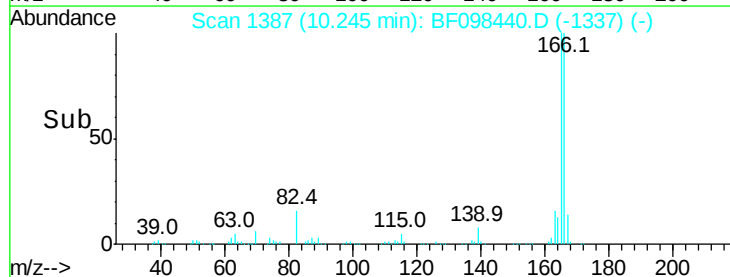
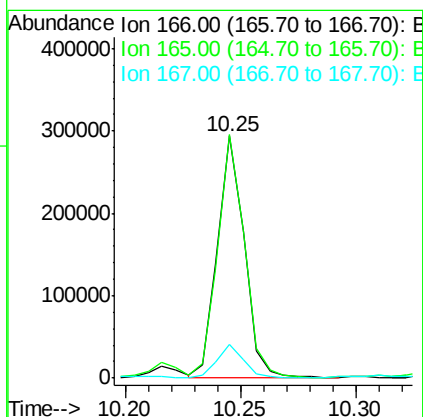
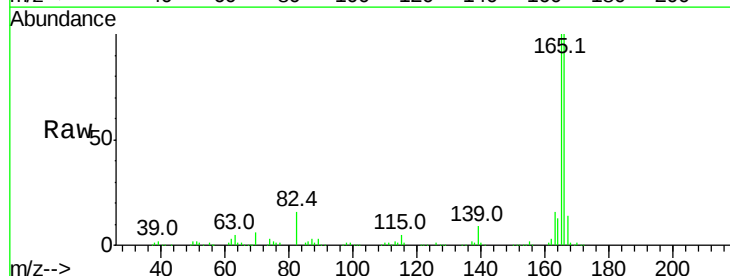
Instrument :  
BNA\_F  
ClientSampleId :

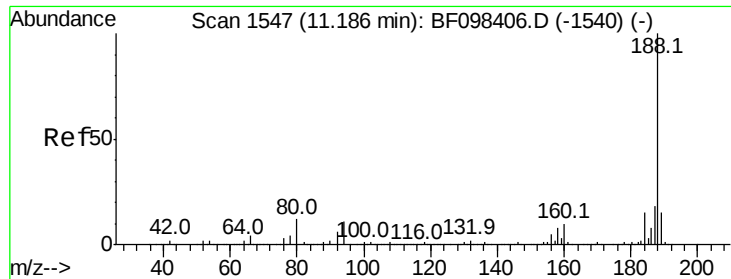
Tot Ion:139 Resp: 105437  
Ion Ratio Lower Upper  
139 100  
109 0.9 34.1 74.1#  
65 1.8 31.4 71.4#



#57  
Fluorene  
Concen: 9.980 ng  
RT: 10.25 min Scan# 1387  
Delta R.T. -0.01 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

Tgt Ion:166 Resp: 234124  
Ion Ratio Lower Upper  
166 100  
165 100.5 78.8 118.2  
167 14.1 10.6 16.0

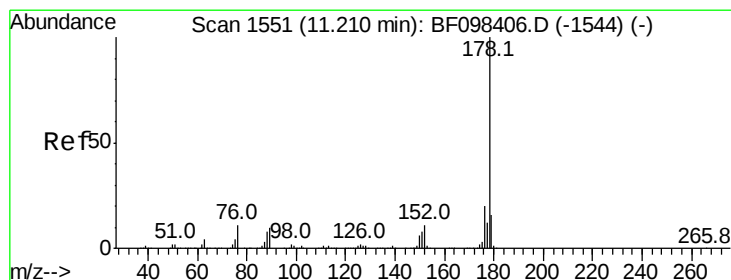
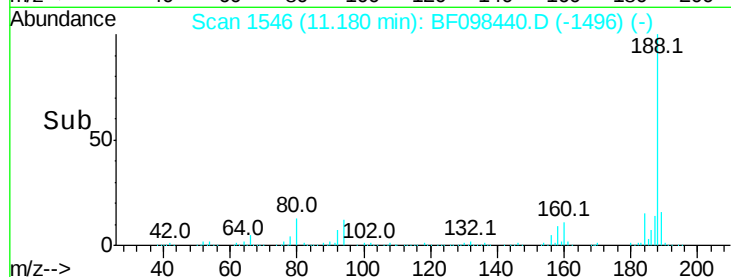
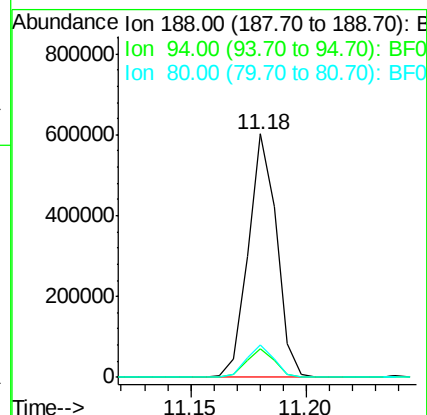
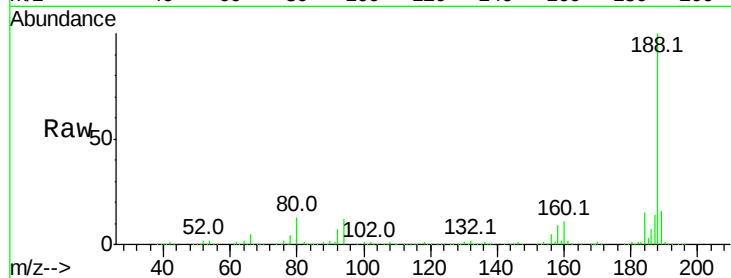




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.18 min Scan# 1546  
 Delta R.T. -0.01 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

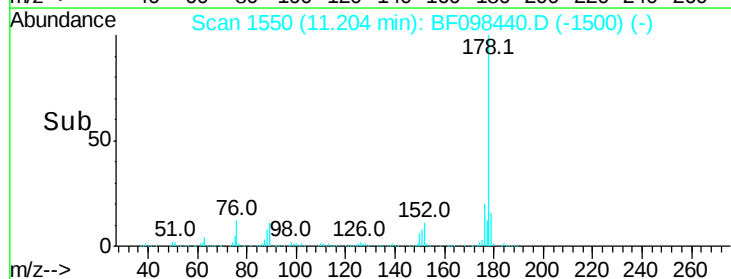
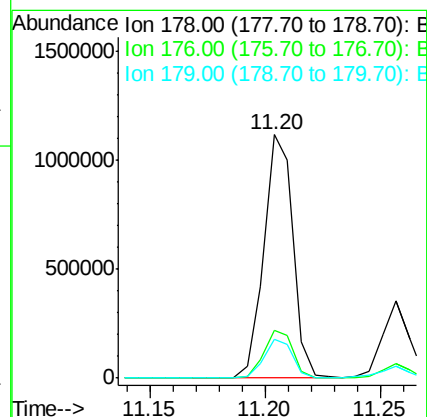
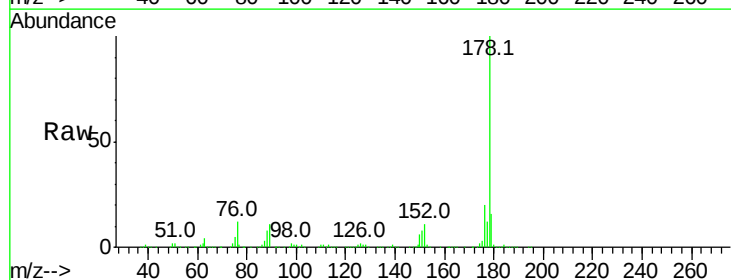
Instrument :  
 BNA\_F  
 ClientSampleId :

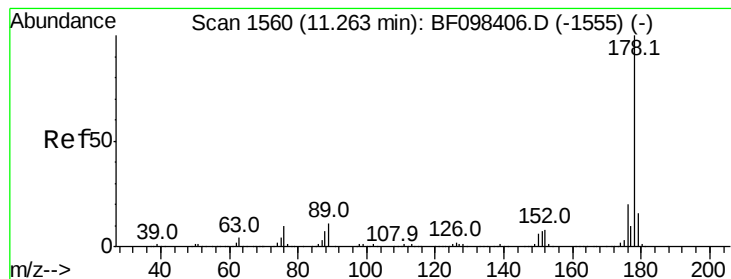
Tot Ion:188 Resp: 517952  
 Ion Ratio Lower Upper  
 188 100  
 94 12.0 9.4 14.2  
 80 13.4 10.2 15.2



#70  
 Phenanthrene  
 Concen: 35.723 ng  
 RT: 11.20 min Scan# 1550  
 Delta R.T. -0.01 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

Tgt Ion:178 Resp: 980886  
 Ion Ratio Lower Upper  
 178 100  
 176 19.7 16.2 24.4  
 179 15.8 12.6 19.0





#71

Anthracene

Concen: 9.805 ng

RT: 11.26 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

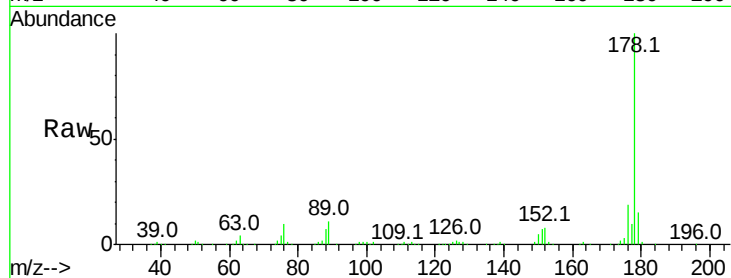
Tot Ion:178 Resp: 276418

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

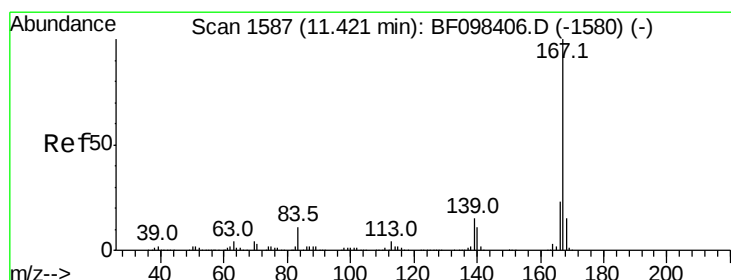
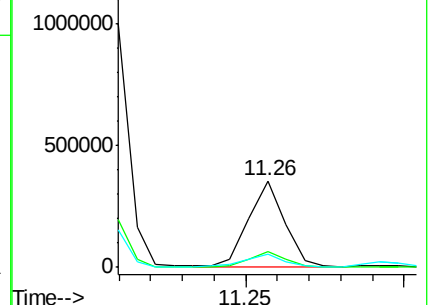
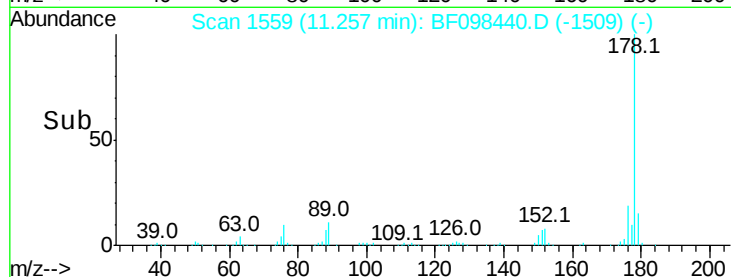
179 15.1 12.7 19.1



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: 2.702 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.01 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

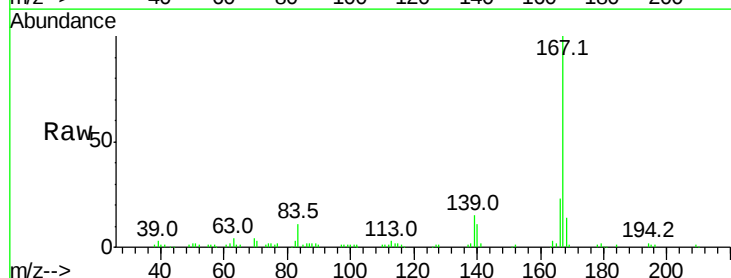
Tgt Ion:167 Resp: 70988

Ion Ratio Lower Upper

167 100

166 22.6 18.1 27.1

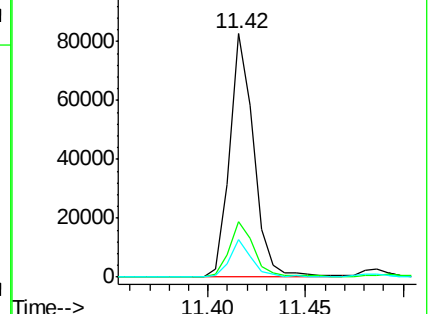
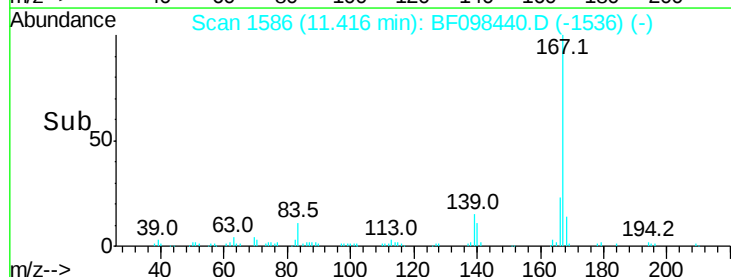
139 15.2 11.7 17.5

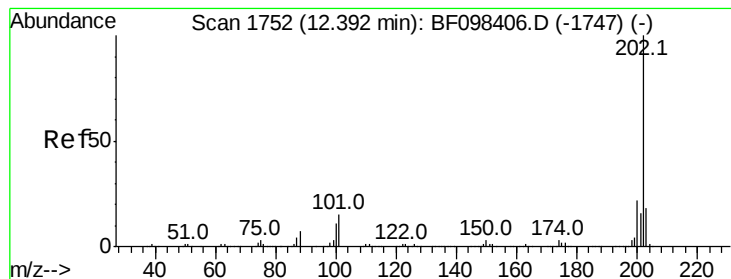


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 21.086 ng

RT: 12.39 min Scan# 1752

Delta R.T. 0.00 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

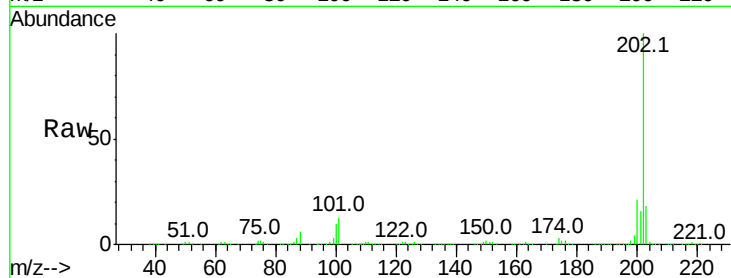
Tot Ion:202 Resp: 579612

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.2

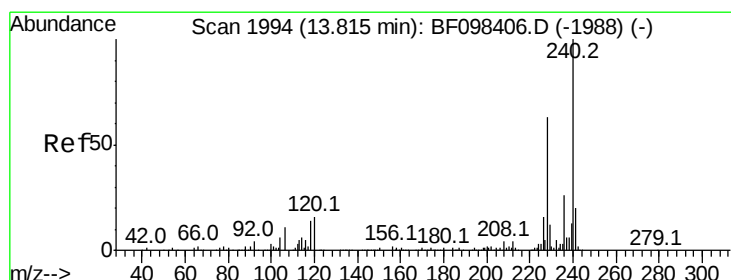
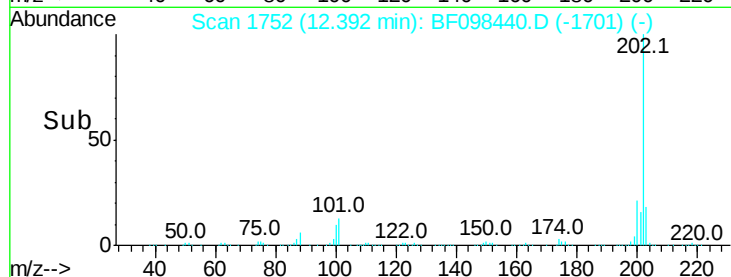
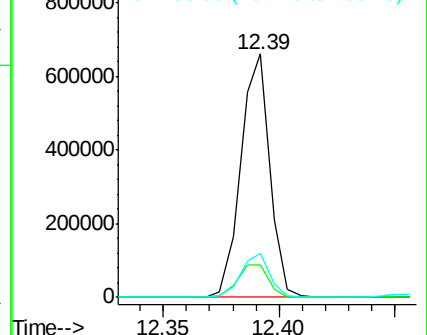
203 17.9 0.0 38.1



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: 20.000 ng

RT: 13.82 min Scan# 1994

Delta R.T. 0.00 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

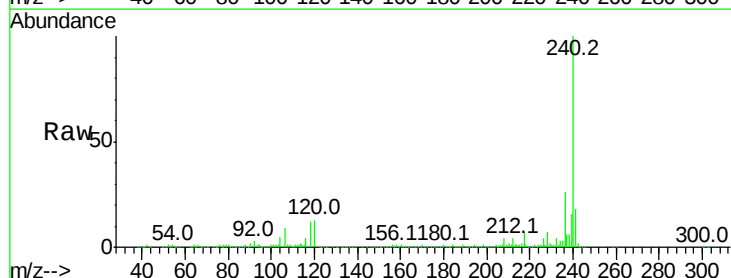
Tgt Ion:240 Resp: 372218

Ion Ratio Lower Upper

240 100

120 12.8 5.8 8.8#

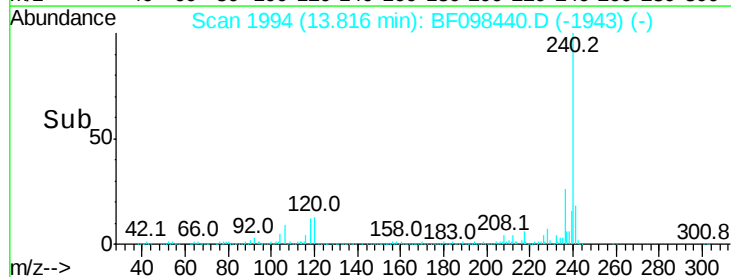
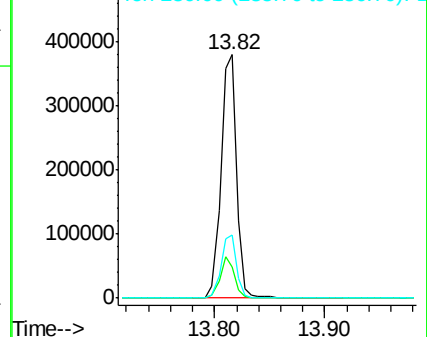
236 26.0 20.5 30.7

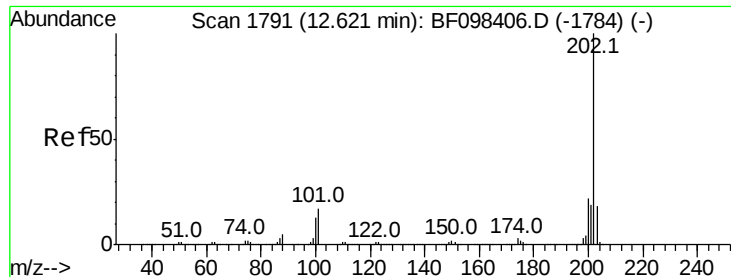


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

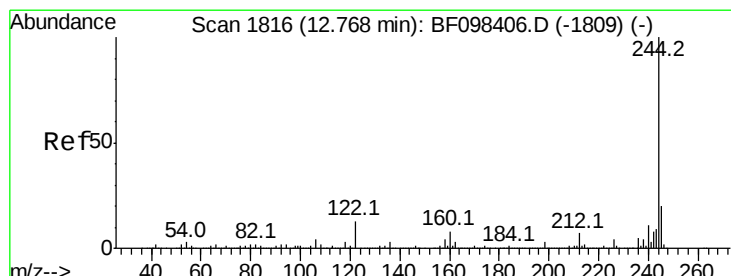
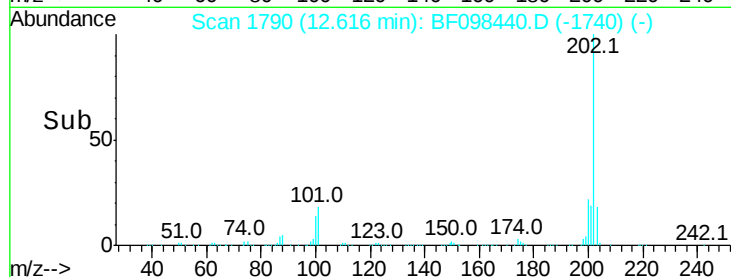
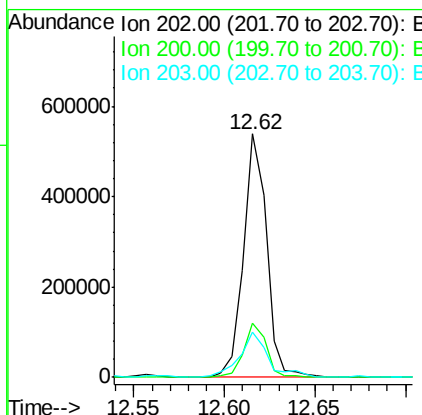
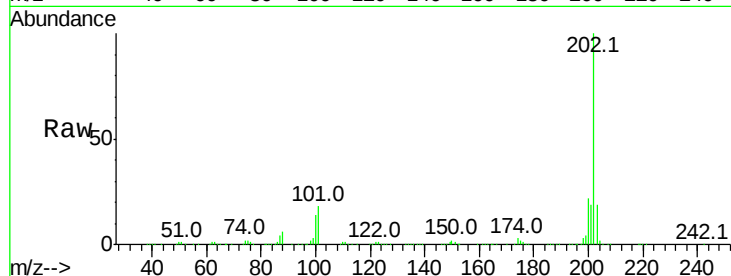




#77  
Pvrene  
Concen: 16.235 ng  
RT: 12.62 min Scan# 1790  
Delta R.T. -0.01 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

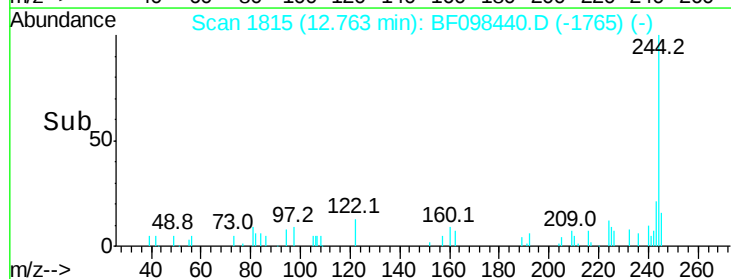
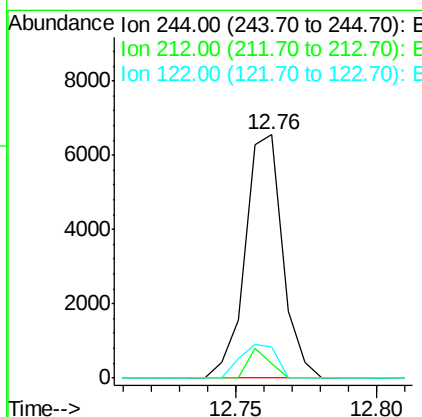
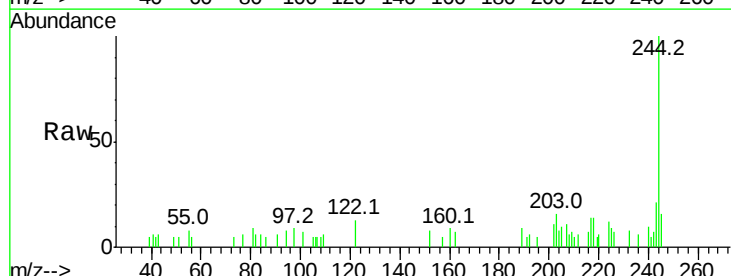
Instrument :  
BNA\_F  
ClientSampleId :

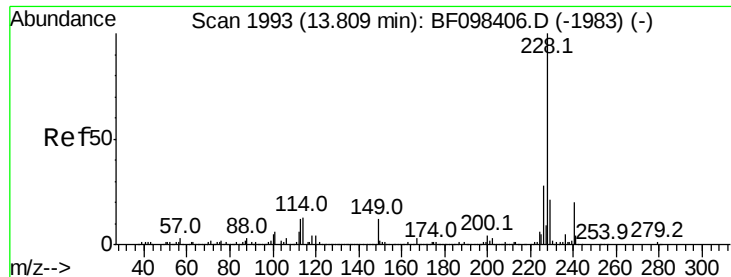
Tot Ion:202 Resp: 476707  
Ion Ratio Lower Upper  
202 100  
200 22.0 17.6 26.4  
203 18.5 14.4 21.6



#78  
Terphenyl-d14  
Concen: 0.349 ng  
RT: 12.76 min Scan# 1815  
Delta R.T. -0.01 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

Tgt Ion:244 Resp: 6025  
Ion Ratio Lower Upper  
244 100  
212 5.8 6.0 9.0#  
122 12.6 10.3 15.5





#80

Benzo(a)anthracene

Concen: 6.053 ng

RT: 13.84 min Scan# 1998

Delta R.T. 0.03 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

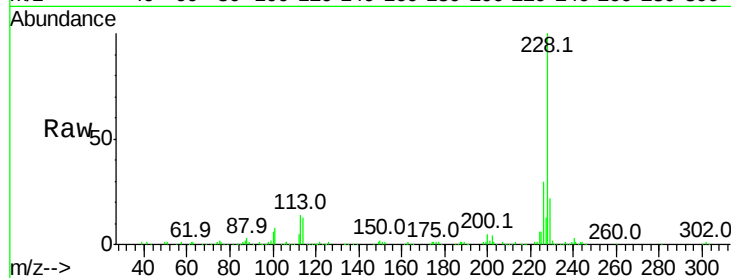
Tot Ion:228 Resp: 132091

Ion Ratio Lower Upper

228 100

226 30.3 22.6 33.8

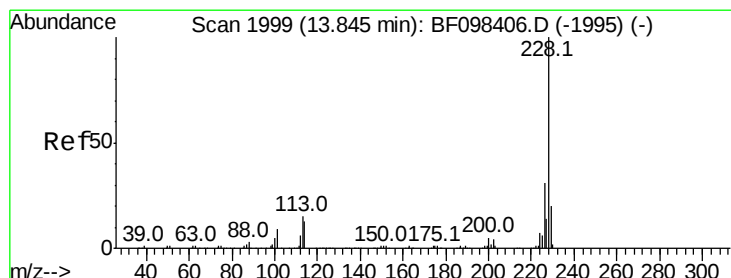
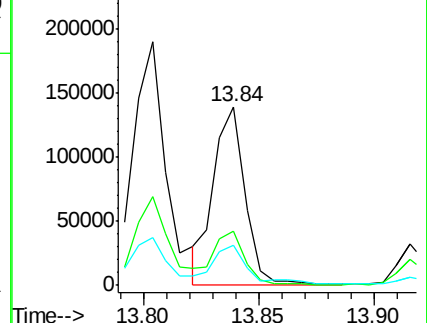
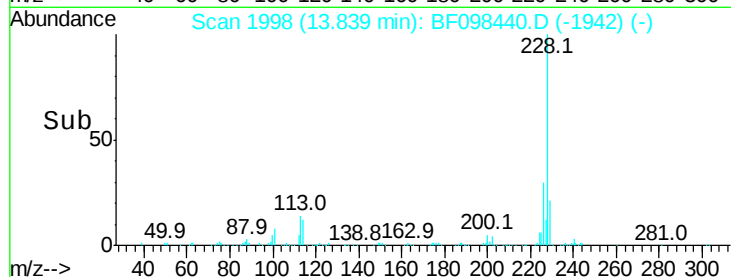
229 22.1 16.3 24.5



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



#82

Chrysene

Concen: 5.988 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

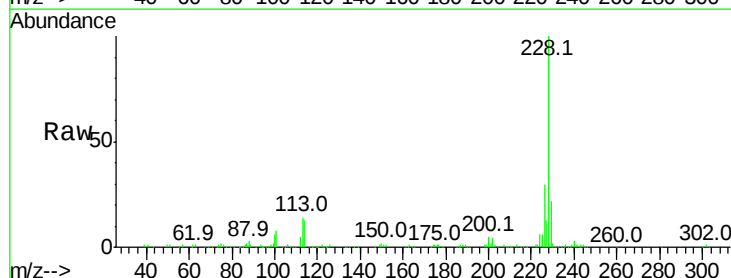
Tgt Ion:228 Resp: 132091

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

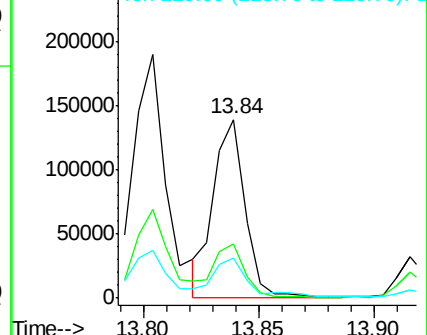
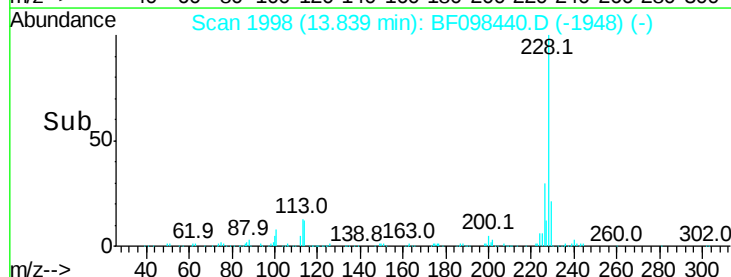
229 22.1 15.8 23.6

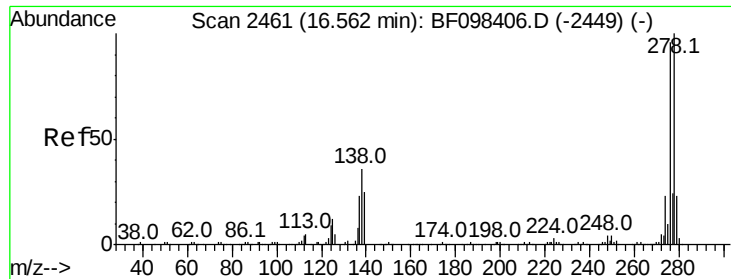


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

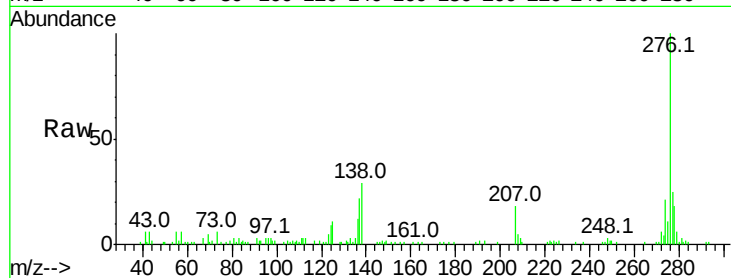




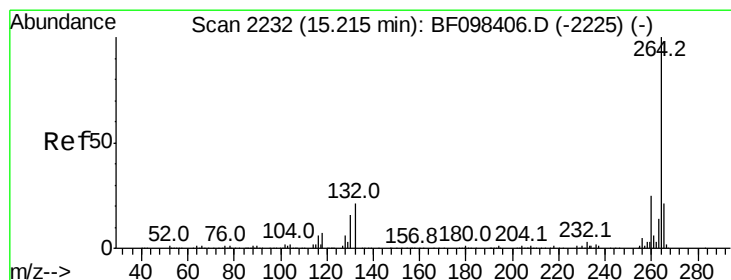
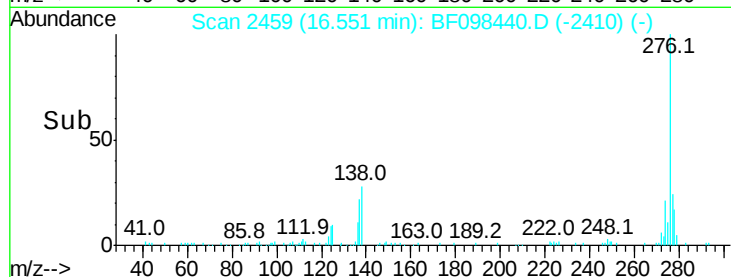
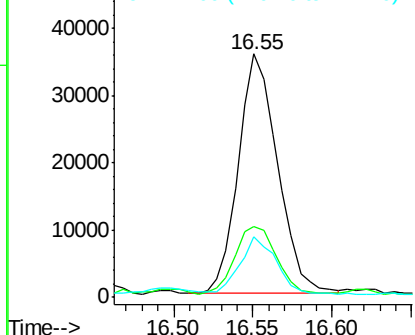
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.948 ng  
 RT: 16.55 min Scan# 2459  
 Delta R.T. -0.01 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.5  | 27.8  | 41.6  |
| 277     | 22.3  | 20.2  | 30.4  |

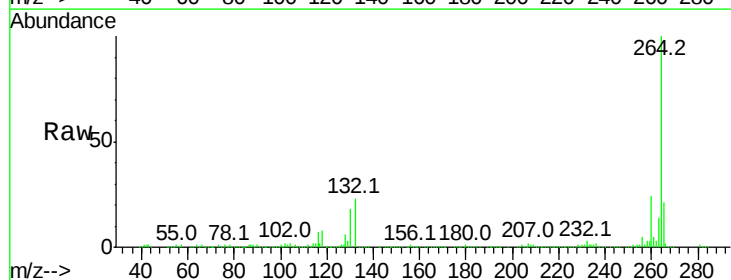


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

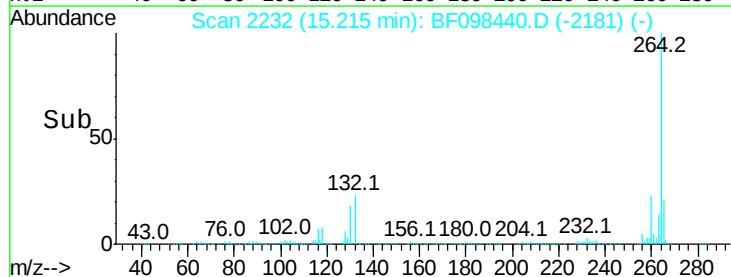
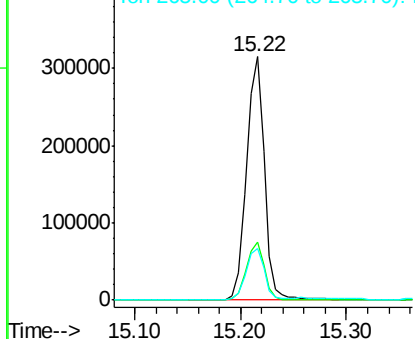


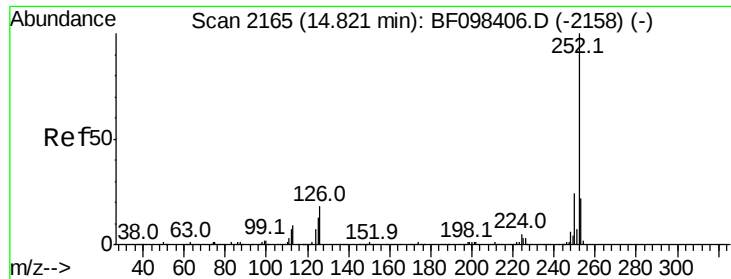
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.22 min Scan# 2232  
 Delta R.T. 0.00 min  
 Lab File: BF098440.D  
 Acq: 12 Sep 2017 9:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.5  | 29.3  |
| 265     | 21.4  | 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: 10.204 ng

RT: 14.82 min Scan# 2165

Delta R.T. 0.00 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

Instrument :

BNA\_F

ClientSampleId :

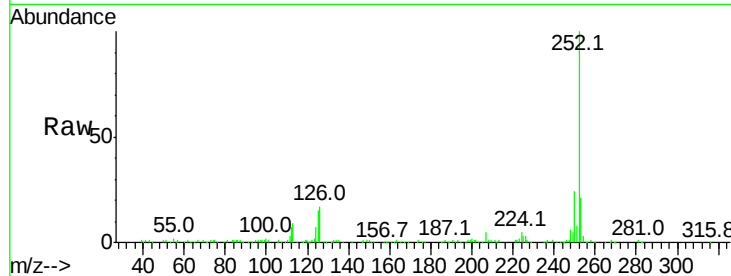
Tot Ion:252 Resp: 238188

Ion Ratio Lower Upper

252 100

253 21.3 18.1 27.1

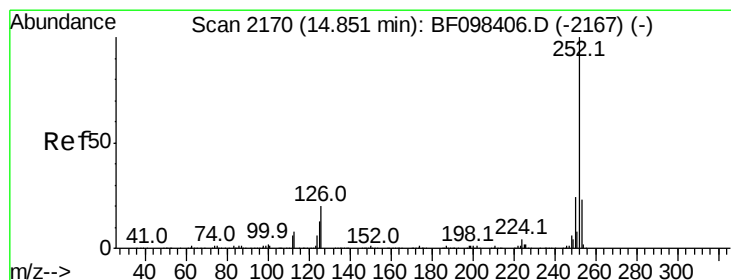
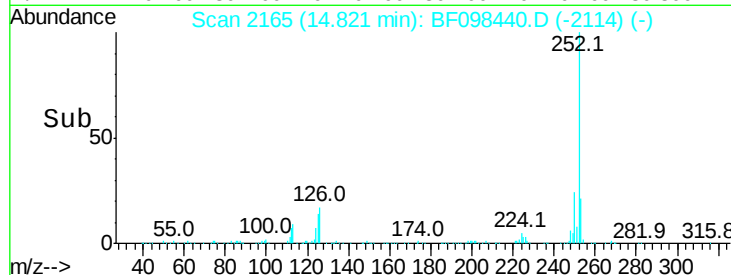
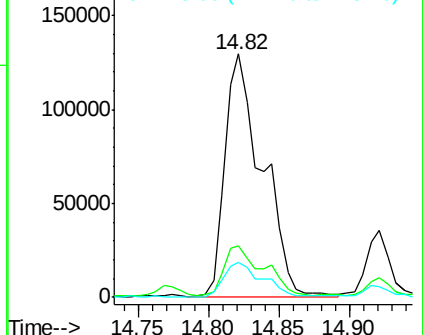
125 14.5 9.8 14.8



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: 10.930 ng

RT: 14.82 min Scan# 2165

Delta R.T. -0.03 min

Lab File: BF098440.D

Acq: 12 Sep 2017 9:19

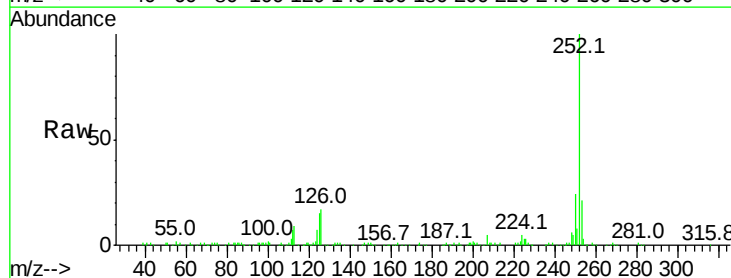
Tgt Ion:252 Resp: 238188

Ion Ratio Lower Upper

252 100

253 21.3 18.4 27.6

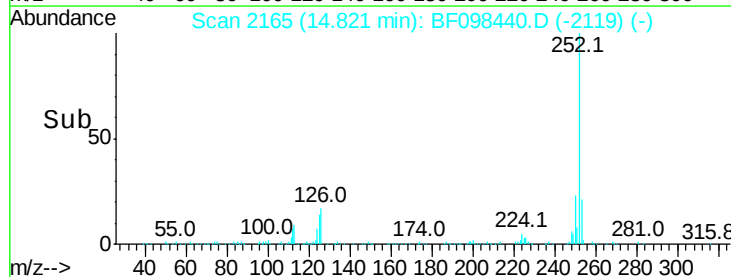
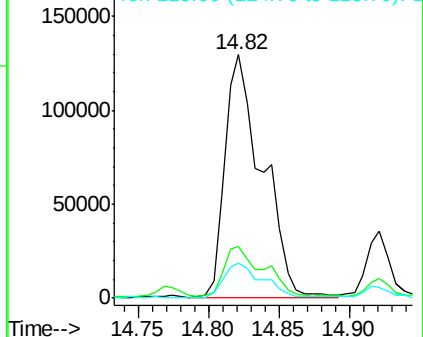
125 14.5 13.1 19.7

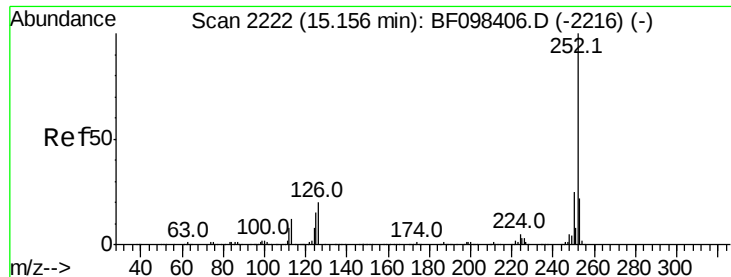


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

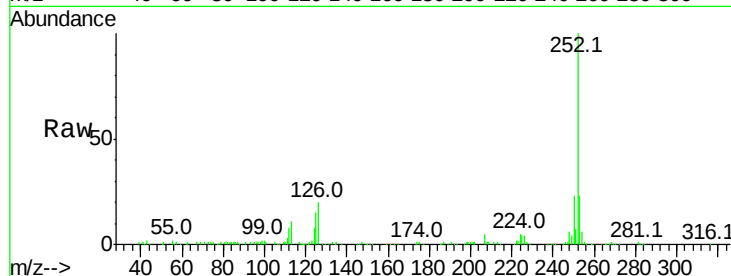




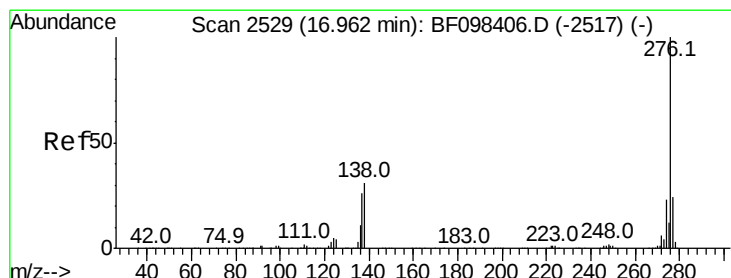
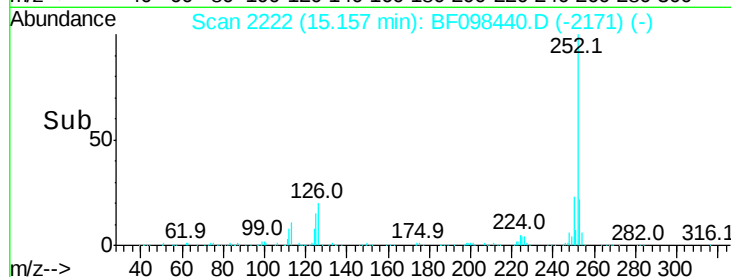
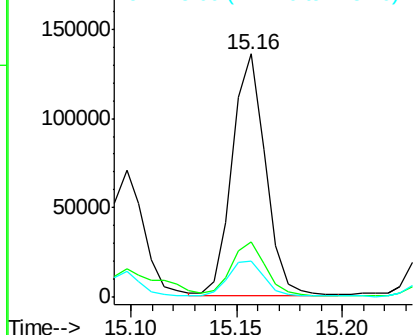
#89  
Benzo(a)pyrene  
Concen: 7.111 ng  
RT: 15.16 min Scan# 2222  
Delta R.T. 0.00 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 147871  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.5 26.3  
125 15.1 11.0 16.4

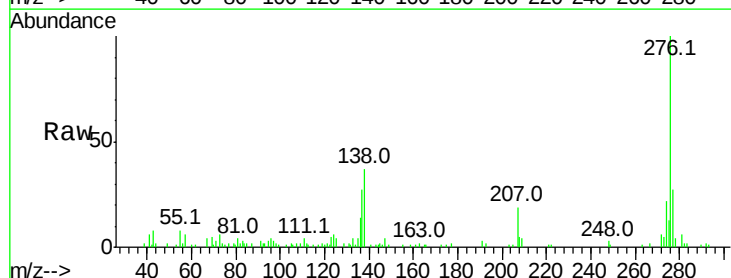


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#91  
Benzo(g,h,i)perylene  
Concen: 3.720 ng  
RT: 16.96 min Scan# 2528  
Delta R.T. -0.01 min  
Lab File: BF098440.D  
Acq: 12 Sep 2017 9:19

Tgt Ion:276 Resp: 56605  
Ion Ratio Lower Upper  
276 100  
277 27.2 18.6 28.0  
138 37.4 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

