

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071516\  
 Data File : BF089044.D  
 Acq On : 16 Jul 2016 6:32  
 Operator : UM/SJ  
 Sample : H3972-11DL 2X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 18 00:57:25 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.67  | 152  | 63992    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 7.96  | 136  | 244869   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 9.71  | 164  | 86202    | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.19 | 188  | 134331   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 13.82 | 240  | 110432   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.18 | 264  | 82051    | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.27  | 112  | 158001   | 37.00 | ng    | -0.02    |
| 7) Phenol-d6                | 6.32  | 99   | 192424   | 34.88 | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 7.23  | 82   | 113497   | 24.29 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.49 | 330  | 21762    | 27.19 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 9.04  | 172  | 212646   | 38.97 | ng    | -0.03    |
| 78) Terphenyl-d14           | 12.77 | 244  | 110764   | 22.34 | ng    | -0.03    |

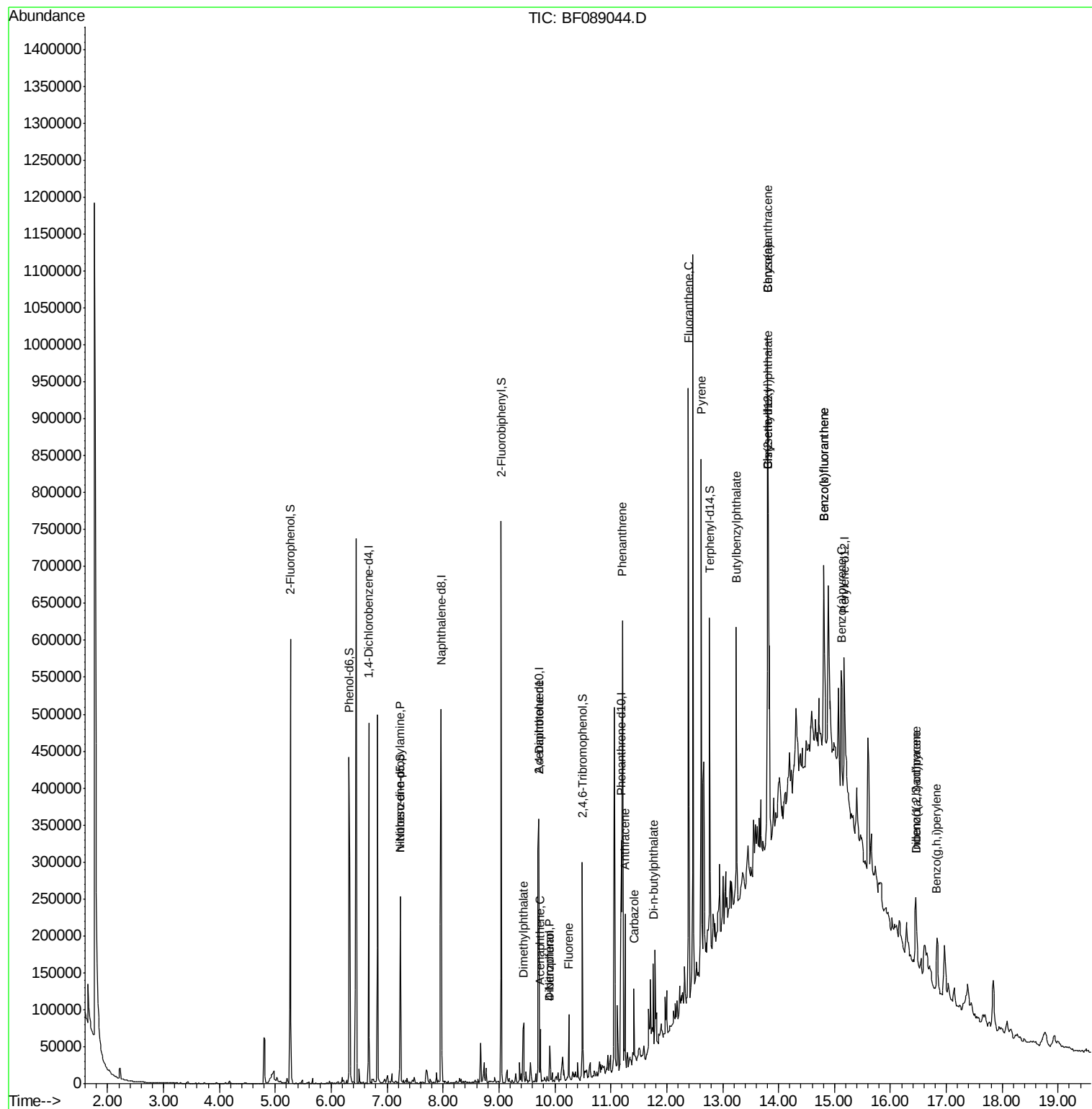
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.23  | 70   | 14874    | 4.01  | ng    | # 78   |
| 49) Dimethylphthalate          | 9.44  | 163  | 42441    | 6.91  | ng    | 99     |
| 51) Acenaphthene               | 9.74  | 154  | 15003    | 2.75  | ng    | 98     |
| 54) Dibenzofuran               | 9.91  | 168  | 16207    | 2.27  | ng    | # 83   |
| 55) 4-Nitrophenol              | 9.91  | 139  | 6764     | 5.14  | ng    | # 7    |
| 56) 2,4-Dinitrotoluene         | 9.71  | 165  | 11536    | 6.48  | ng    | # 36   |
| 57) Fluorene                   | 10.25 | 166  | 21874    | 3.97  | ng    | 97     |
| 70) Phenanthrene               | 11.21 | 178  | 231170   | 31.48 | ng    | 98     |
| 71) Anthracene                 | 11.26 | 178  | 67344    | 9.22  | ng    | 97     |
| 72) Carbazole                  | 11.42 | 167  | 28970    | 4.22  | ng    | 99     |
| 73) Di-n-butylphthalate        | 11.76 | 149  | 32916    | 4.12  | ng    | 98     |
| 74) Fluoranthene               | 12.39 | 202  | 287615   | 38.64 | ng    | 98     |
| 77) Pvrene                     | 12.62 | 202  | 266798   | 28.49 | ng    | 99     |
| 79) Butylbenzylphthalate       | 13.25 | 149  | 78470    | 18.79 | ng    | # 76   |
| 80) Benzo(a)anthracene         | 13.81 | 228  | 142995   | 20.11 | ng    | 98     |
| 82) Chrysene                   | 13.81 | 228  | 142995   | 20.33 | ng    | 97     |
| 83) Bis(2-ethylhexyl)phthalate | 13.82 | 149  | 76371    | 16.02 | ng    | # 99   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.46 | 276  | 52202    | 9.64  | ng    | # 100  |
| 87) Benzo(b)fluoranthene       | 14.81 | 252  | 173340   | 33.68 | ng    | # 94   |
| 88) Benzo(k)fluoranthene       | 14.81 | 252  | 173340   | 38.68 | ng    | 98     |
| 89) Benzo(a)pyrene             | 15.13 | 252  | 80465    | 18.46 | ng    | 96     |
| 90) Dibenzo(a,h)anthracene     | 16.46 | 278  | 18127    | 4.98  | ng    | # 81   |
| 91) Benzo(g,h,i)perylene       | 16.83 | 276  | 52304    | 13.89 | ng    | 97     |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

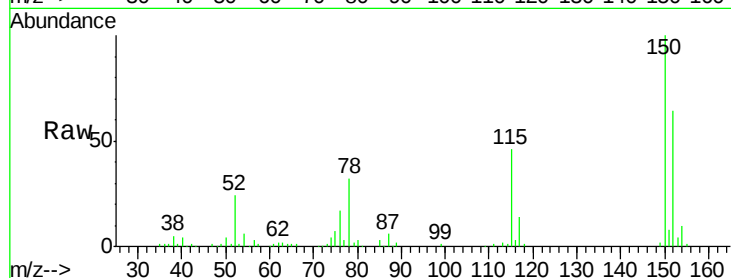
Tot Ion:152 Resp: 63992

Ion Ratio Lower Upper

152 100

150 157.2 123.8 185.6

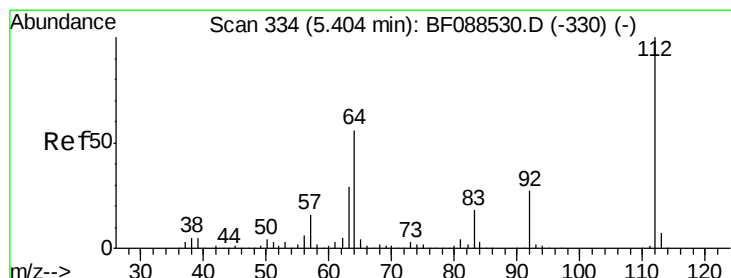
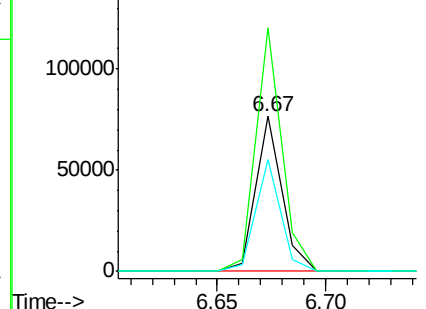
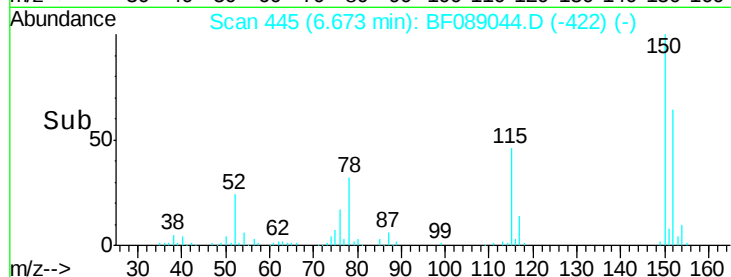
115 72.5 39.6 59.4#



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: 37.00 ng

RT: 5.27 min Scan# 322

Delta R.T. -0.02 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

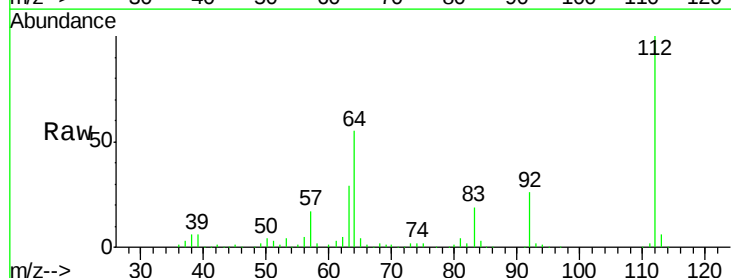
Tgt Ion:112 Resp: 158001

Ion Ratio Lower Upper

112 100

64 55.0 42.2 63.2

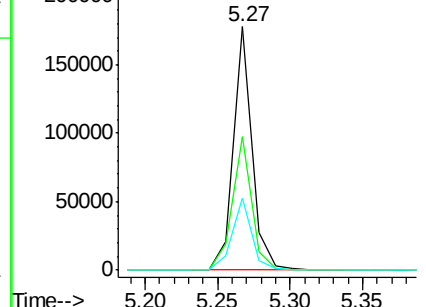
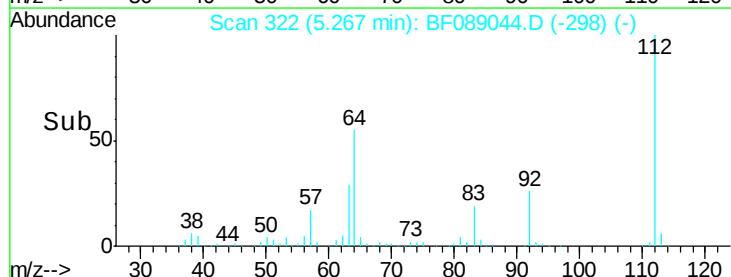
63 29.4 21.8 32.8



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: 34.88 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

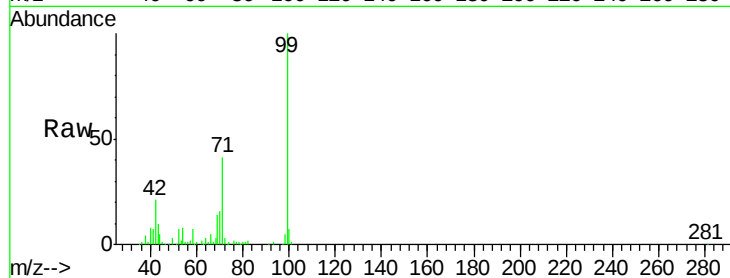
Tot Ion: 99 Resp: 192424

Ion Ratio Lower Upper

99 100

42 20.7 12.2 18.2#

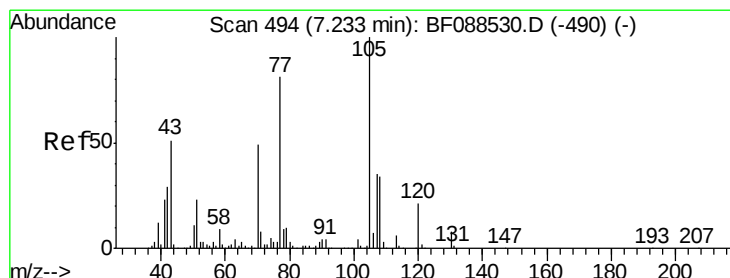
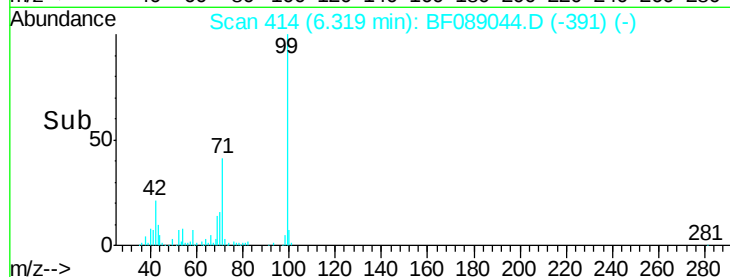
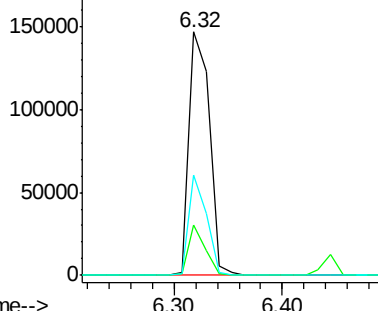
71 41.0 23.4 35.0#



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



#19

n-Nitroso-di-n-propylamine

Concen: 4.01 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.09 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Tgt Ion: 70 Resp: 14874

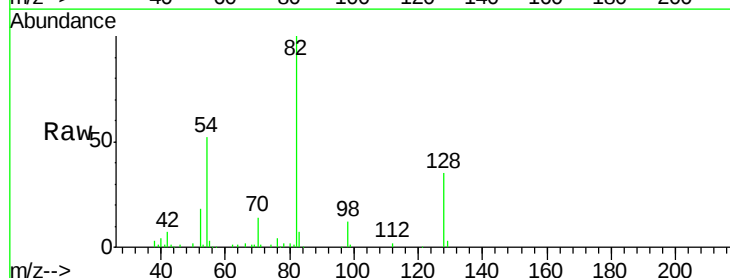
Ion Ratio Lower Upper

70 100

42 49.9 49.6 74.4

101 0.0 7.1 10.7#

130 0.0 15.4 23.2#

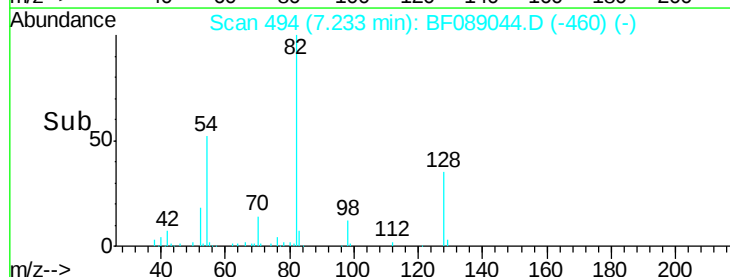
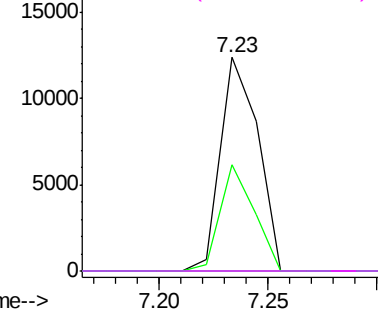


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 244869

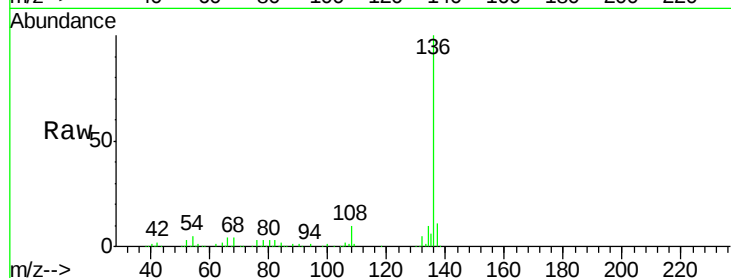
Ion Ratio Lower Upper

136 100

137 10.8 9.1 13.7

54 5.5 6.6 10.0#

68 4.5 5.1 7.7#

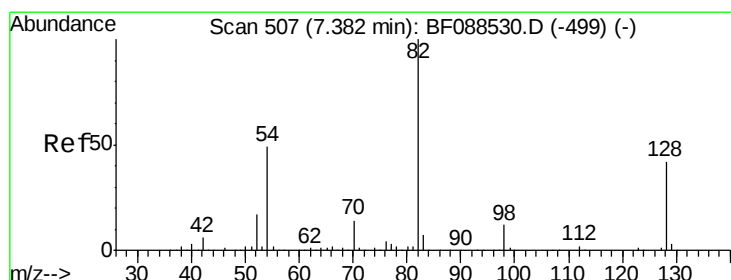
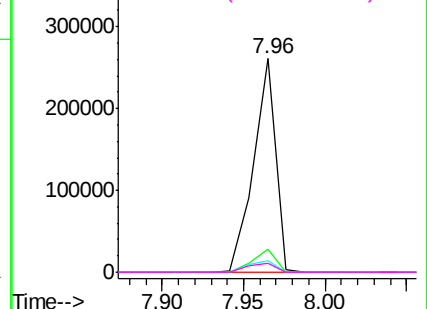
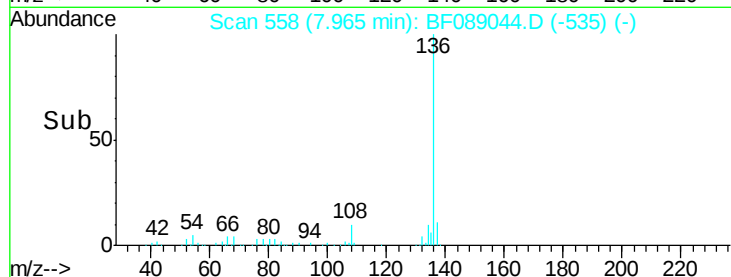


Abundance Ion 136.00 (135.70 to 136.70): E

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: 24.29 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.05 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

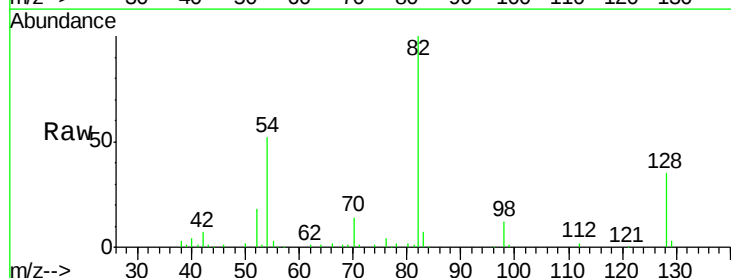
Tgt Ion: 82 Resp: 113497

Ion Ratio Lower Upper

82 100

128 34.6 35.9 53.9#

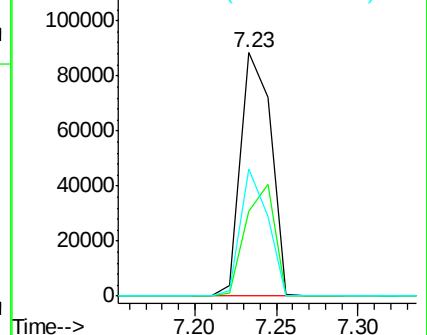
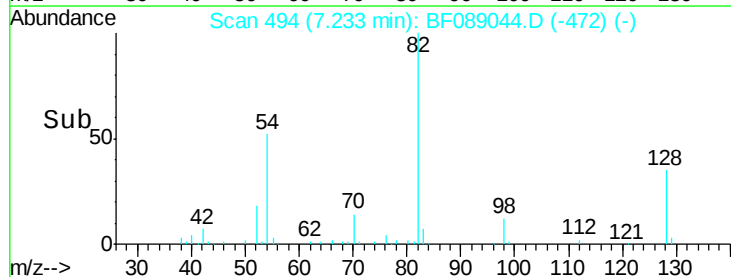
54 52.4 40.9 61.3

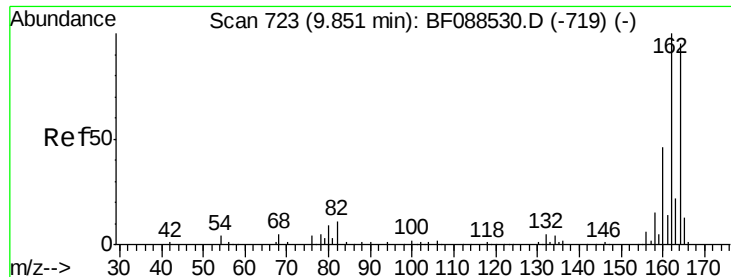


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

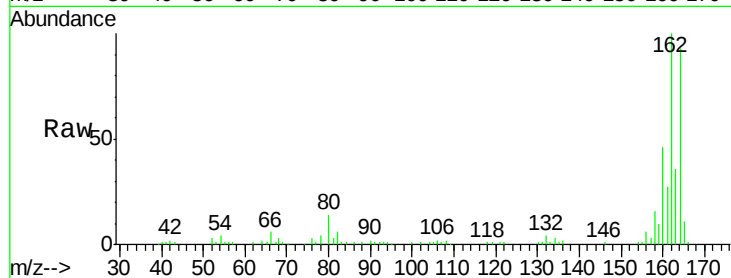
Tot Ion:164 Resp: 86202

Ion Ratio Lower Upper

164 100

162 107.8 85.4 128.2

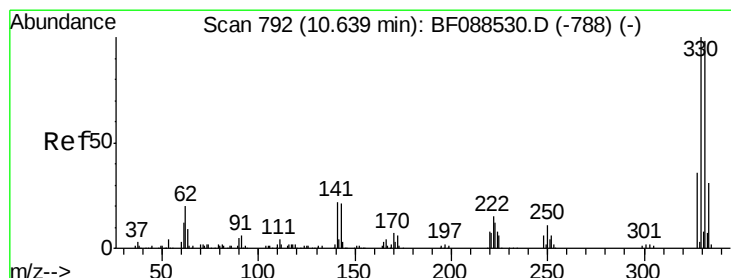
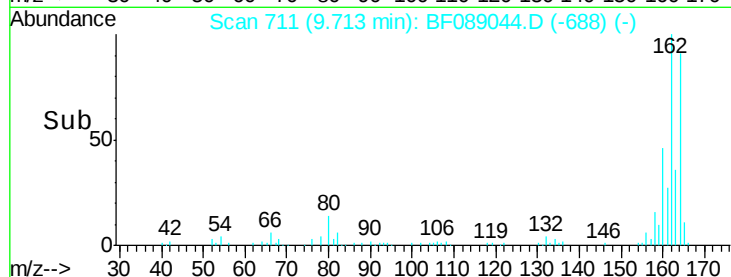
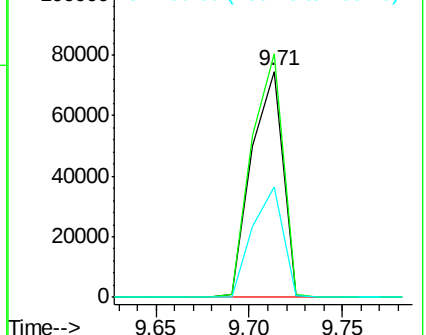
160 49.2 39.5 59.3



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: 27.19 ng

RT: 10.49 min Scan# 779

Delta R.T. -0.05 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

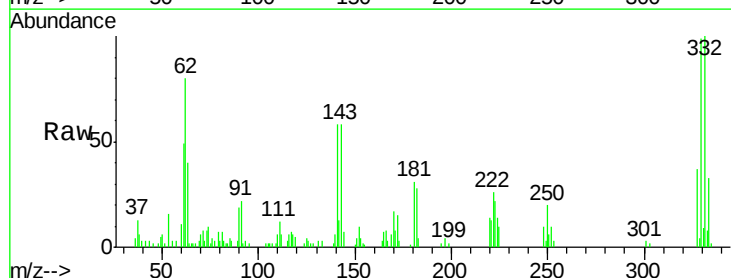
Tgt Ion:330 Resp: 21762

Ion Ratio Lower Upper

330 100

332 100.8 0.0 0.0#

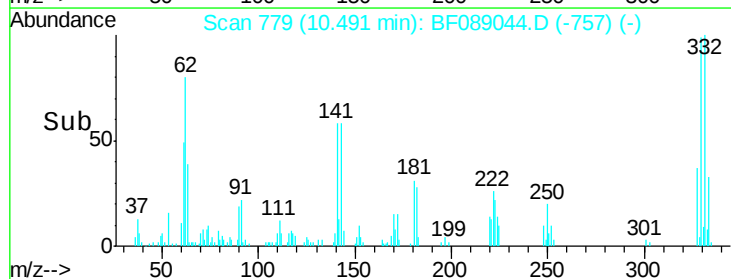
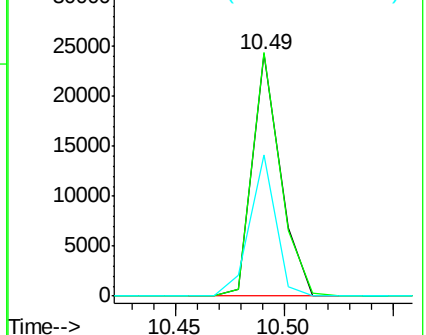
141 54.3 0.0 0.0#

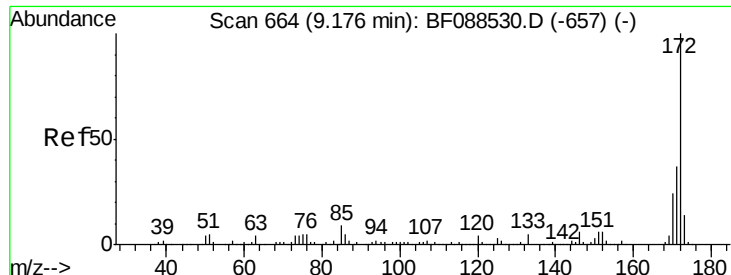


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

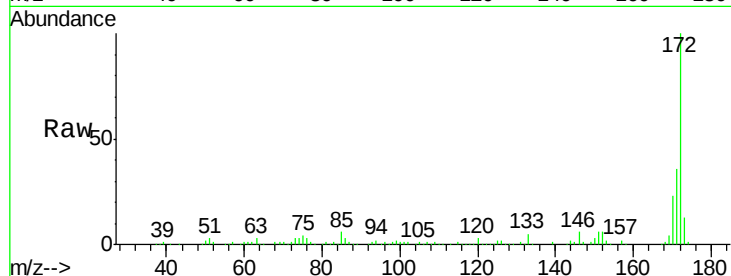




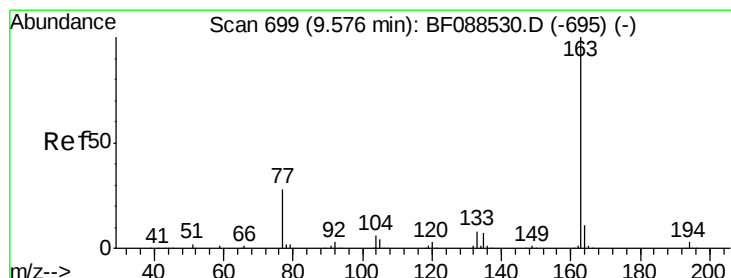
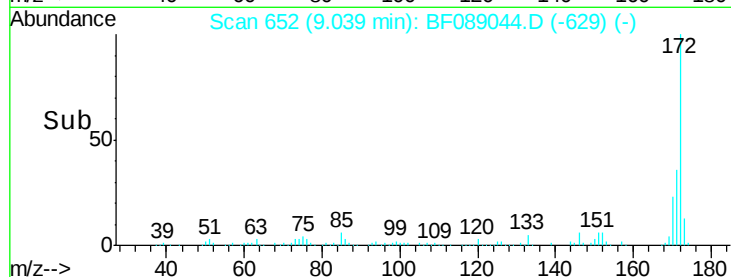
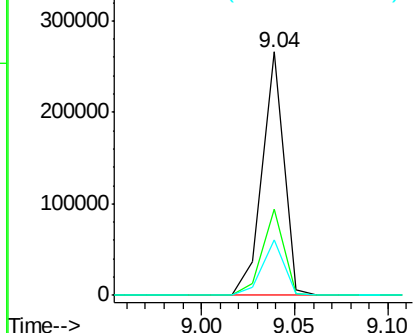
#44  
2-Fluorobiphenyl  
Concen: 38.97 ng  
RT: 9.04 min Scan# 652  
Delta R.T. -0.03 min  
Lab File: BF089044.D  
Acq: 16 Jul 2016 6:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 212646  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.6 43.0  
170 23.0 19.2 28.8

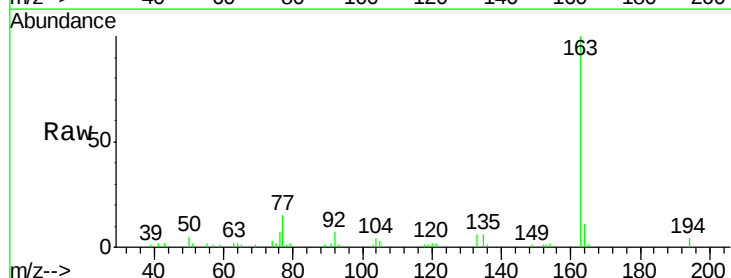


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

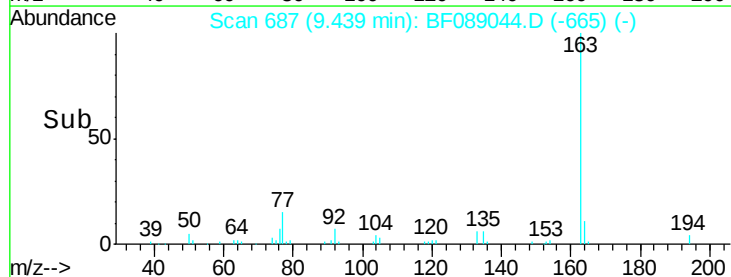
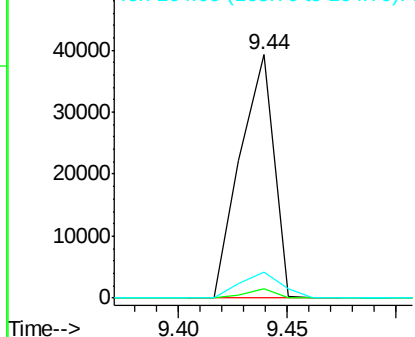


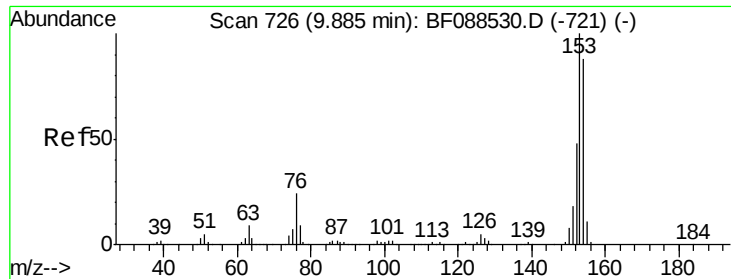
#49  
Dimethylphthalate  
Concen: 6.91 ng  
RT: 9.44 min Scan# 687  
Delta R.T. -0.05 min  
Lab File: BF089044.D  
Acq: 16 Jul 2016 6:32

Tgt Ion:163 Resp: 42441  
Ion Ratio Lower Upper  
163 100  
194 4.0 2.8 4.2  
164 10.6 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.75 ng

RT: 9.74 min Scan# 713

Delta R.T. -0.05 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

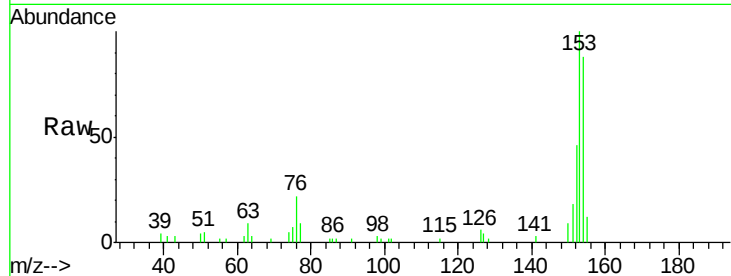
Tot Ion:154 Resp: 15003

Ion Ratio Lower Upper

154 100

153 113.7 89.5 134.3

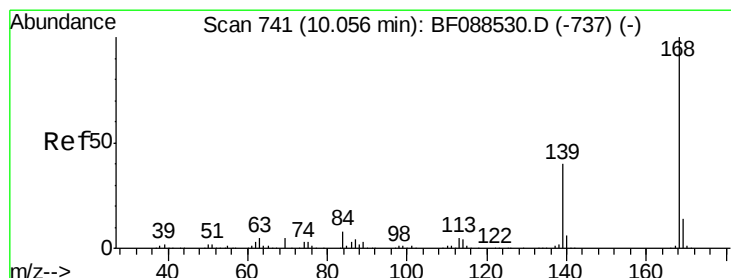
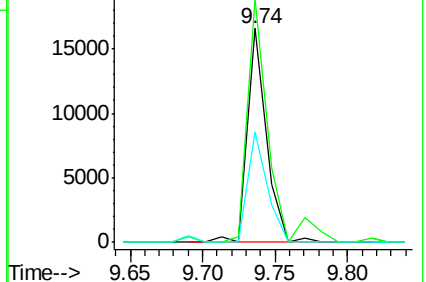
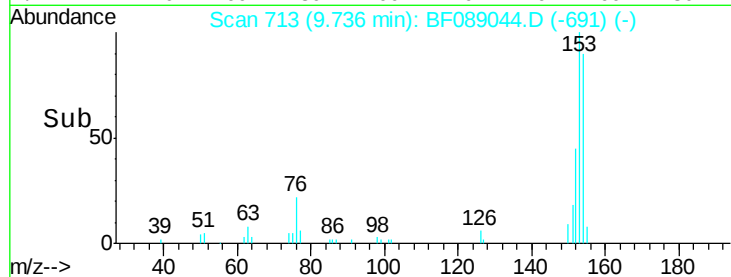
152 51.8 42.7 64.1



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: 2.27 ng

RT: 9.91 min Scan# 728

Delta R.T. -0.05 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

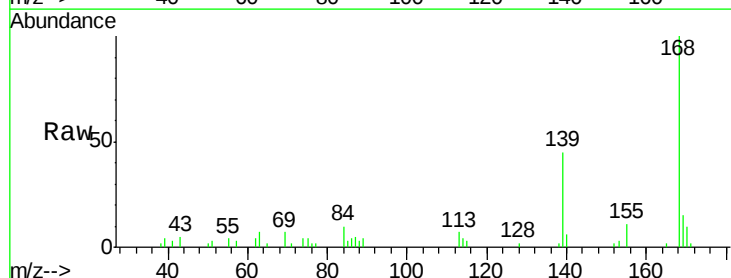
Tgt Ion:168 Resp: 16207

Ion Ratio Lower Upper

168 100

139 45.1 26.4 39.6#

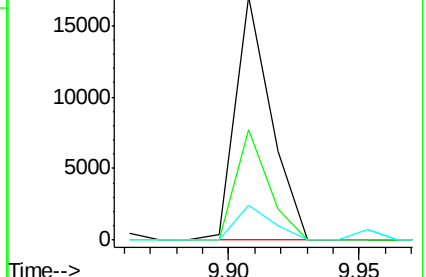
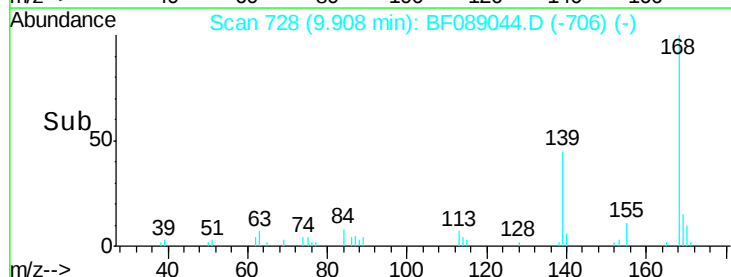
169 14.6 10.4 15.6

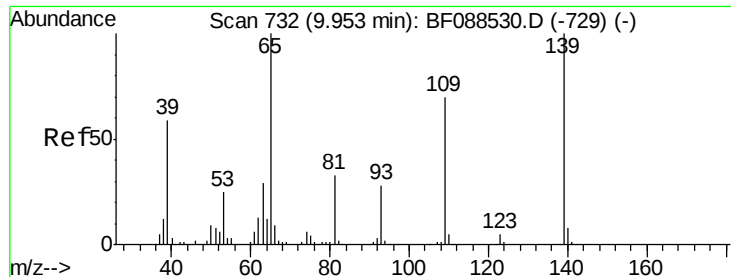


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 5.14 ng

RT: 9.91 min Scan# 728

Delta R.T. 0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampled :

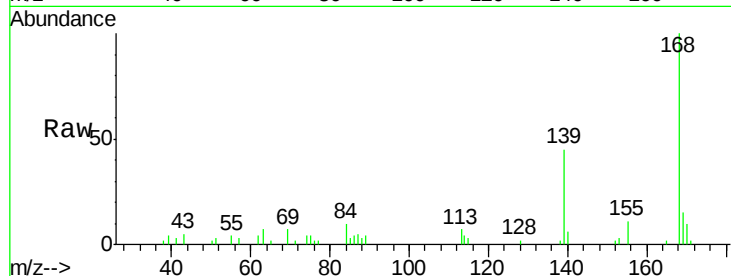
Tot Ion:139 Resp: 6764

Ion Ratio Lower Upper

139 100

109 0.0 48.9 88.9#

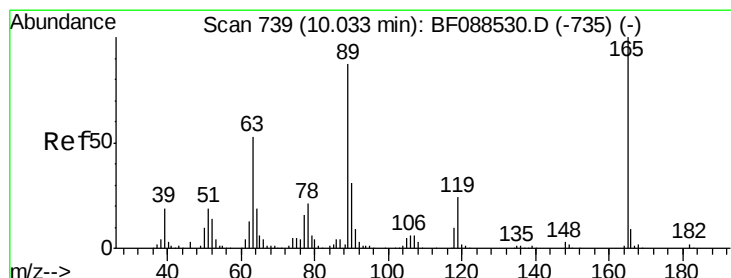
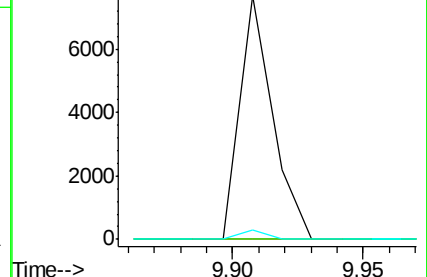
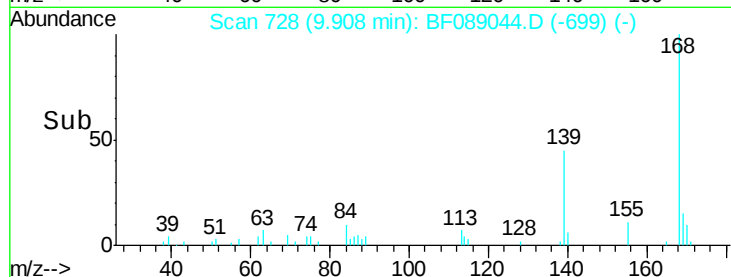
65 4.0 84.9 124.9#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 6.48 ng

RT: 9.71 min Scan# 711

Delta R.T. -0.23 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Tgt Ion:165 Resp: 11536

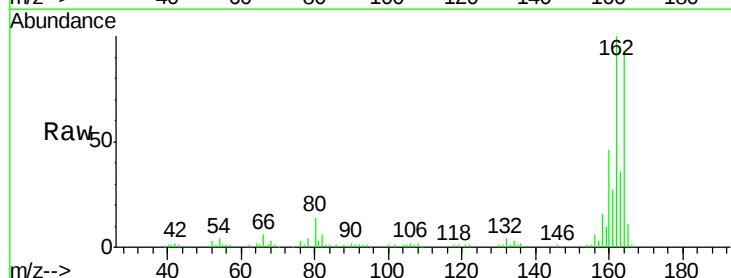
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

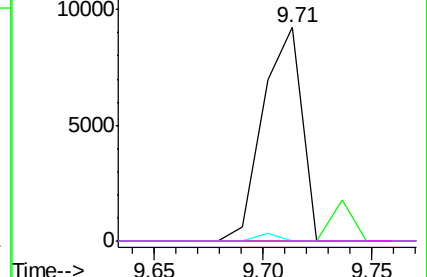
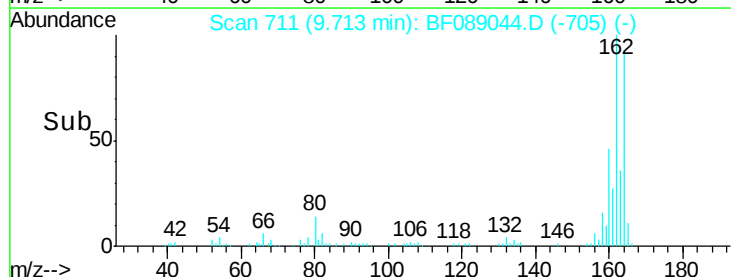


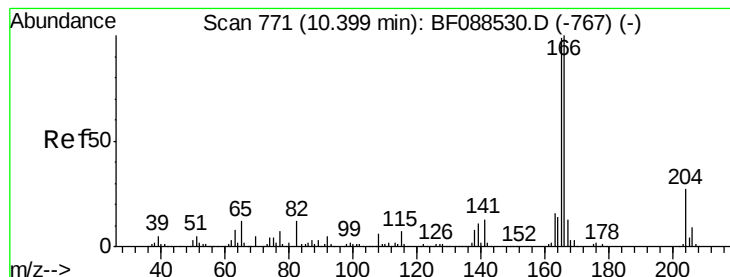
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: 3.97 ng

RT: 10.25 min Scan# 758

Delta R.T. -0.05 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

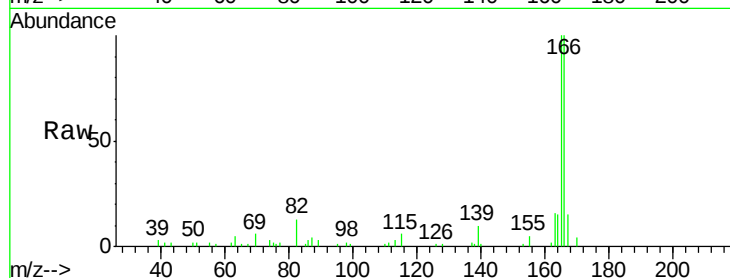
Tot Ion:166 Resp: 21874

Ion Ratio Lower Upper

166 100

165 100.5 77.8 116.8

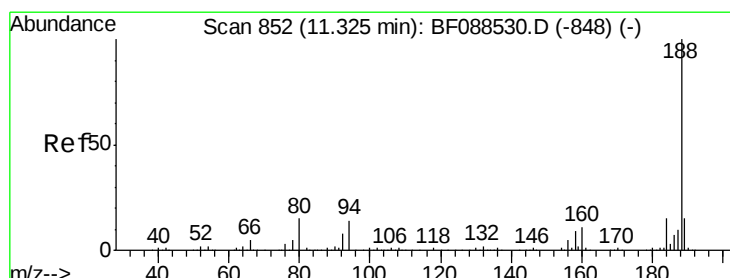
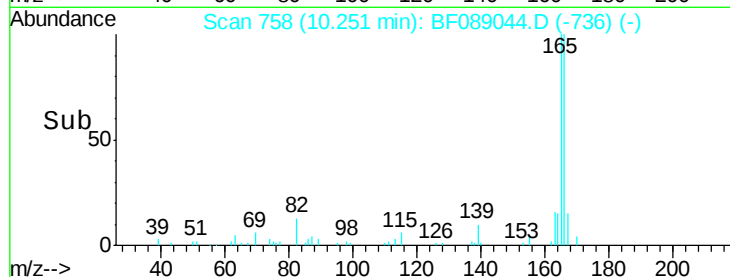
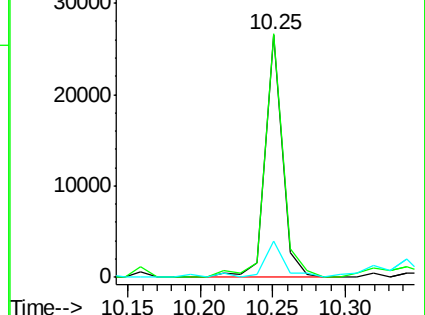
167 15.2 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.19 min Scan# 840

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

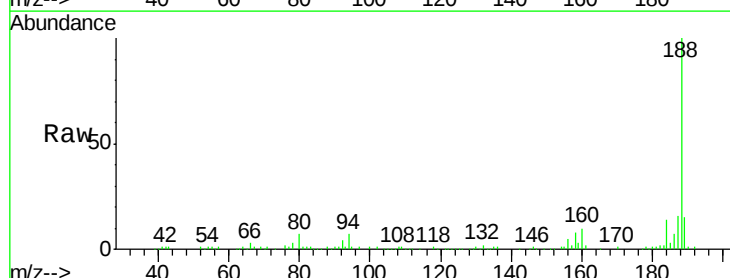
Tgt Ion:188 Resp: 134331

Ion Ratio Lower Upper

188 100

94 7.1 9.0 13.6#

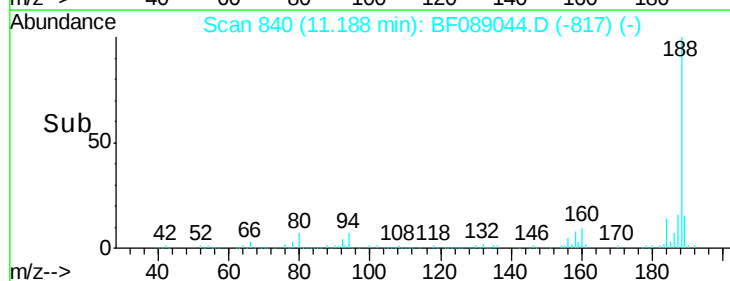
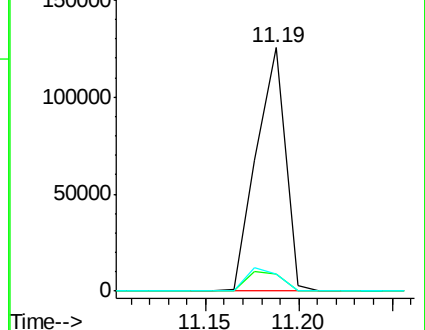
80 7.1 10.0 15.0#

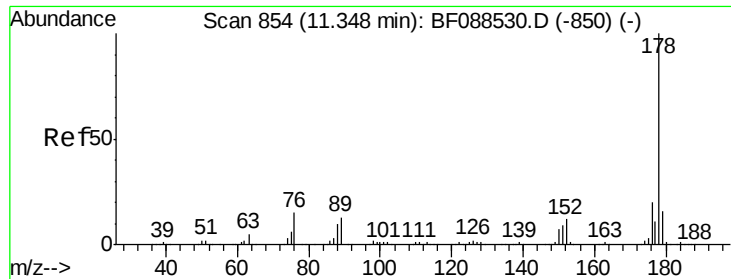


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

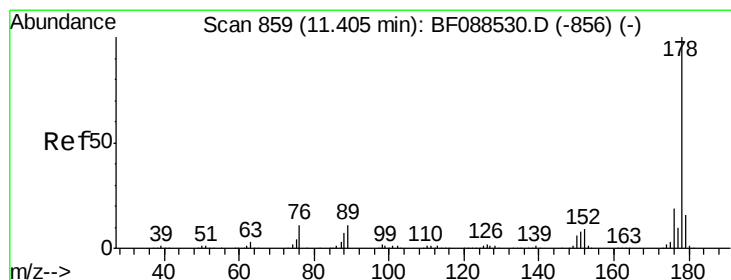
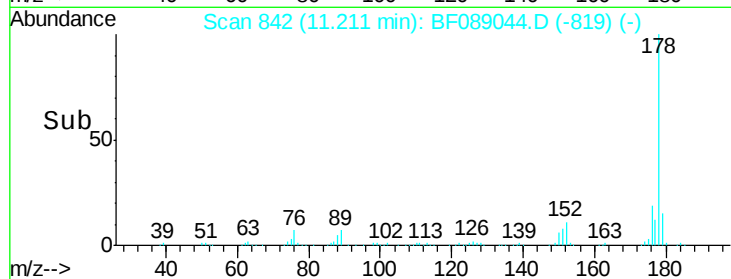
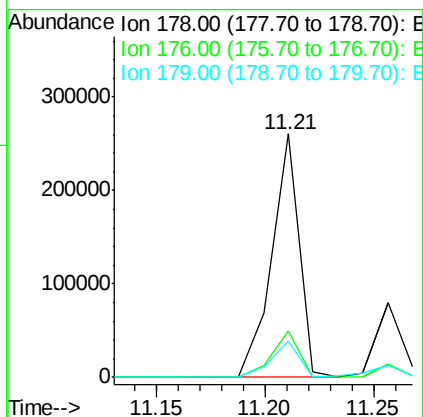
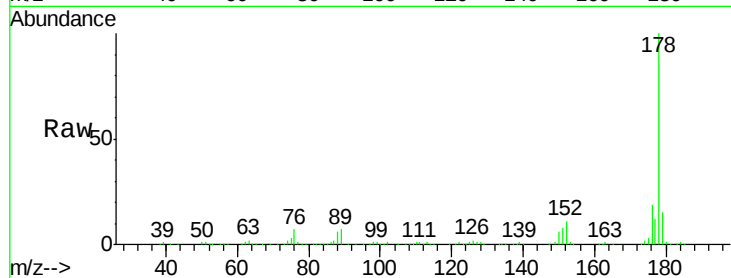




#70  
Phenanthrene  
Concen: 31.48 ng  
RT: 11.21 min Scan# 842  
Delta R.T. -0.03 min  
Lab File: BF089044.D  
Acq: 16 Jul 2016 6:32

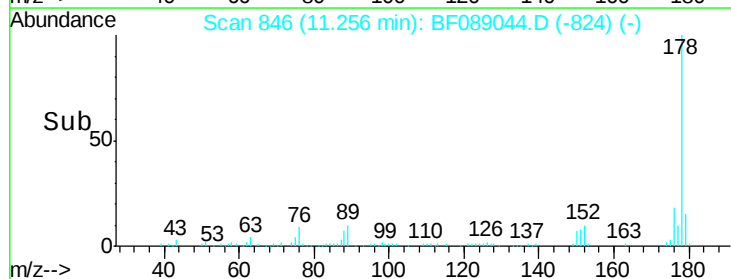
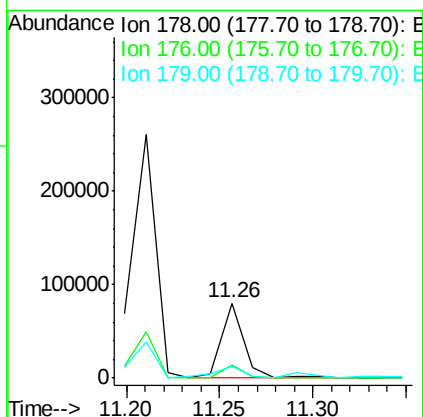
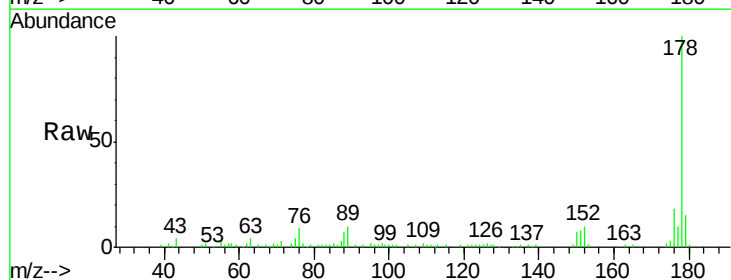
Instrument :  
BNA\_F  
ClientSampleId :

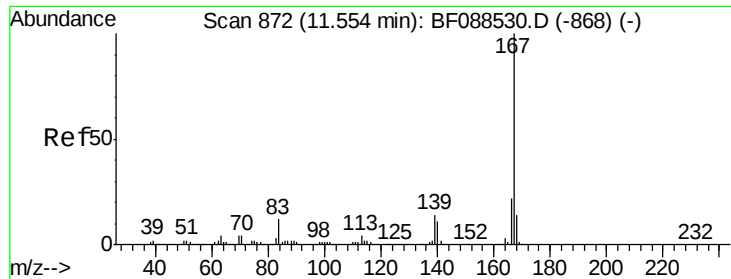
Tot Ion:178 Resp: 231170  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.8 23.6  
179 15.2 13.0 19.4



#71  
Anthracene  
Concen: 9.22 ng  
RT: 11.26 min Scan# 846  
Delta R.T. -0.05 min  
Lab File: BF089044.D  
Acq: 16 Jul 2016 6:32

Tgt Ion:178 Resp: 67344  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.6 23.4  
179 15.4 12.8 19.2

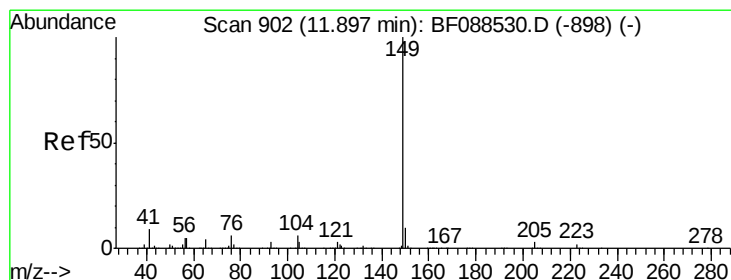
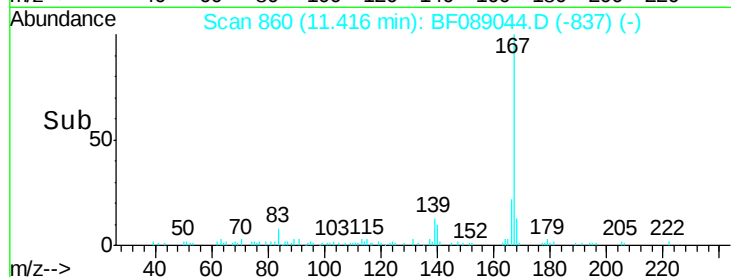
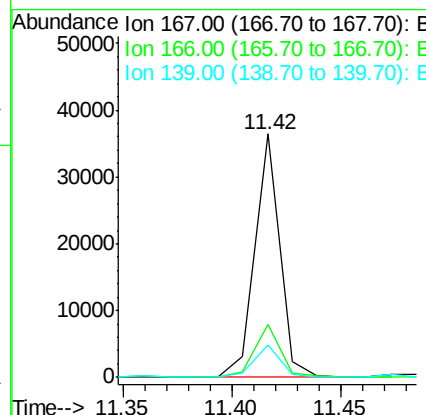
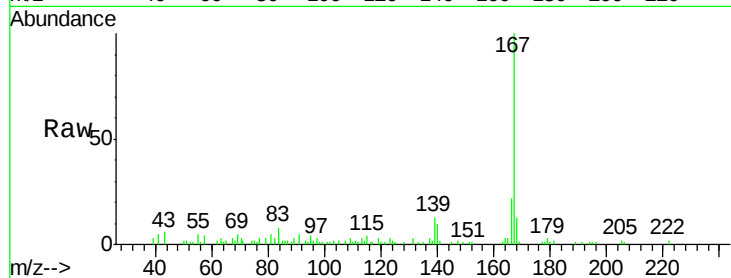




#72  
 Carbazole  
 Concen: 4.22 ng  
 RT: 11.42 min Scan# 860  
 Delta R.T. -0.03 min  
 Lab File: BF089044.D  
 Acq: 16 Jul 2016 6:32

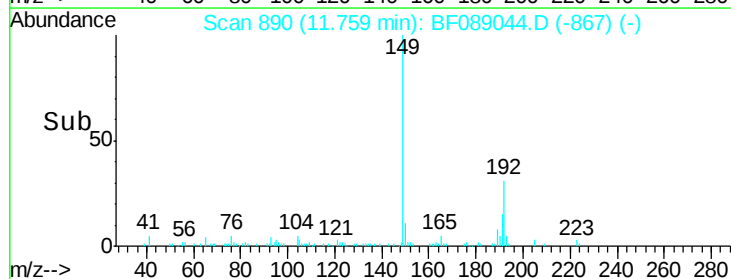
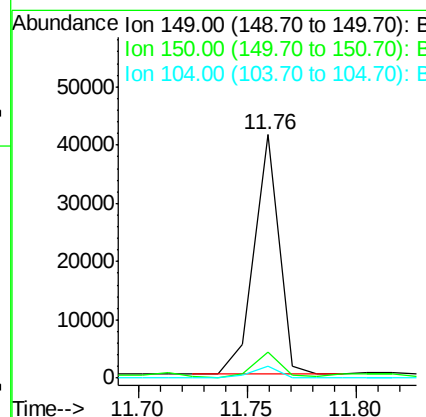
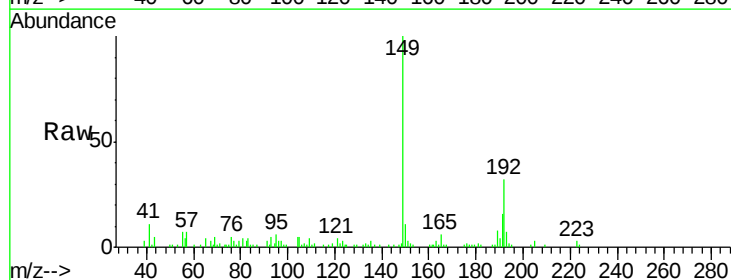
Instrument :  
 BNA\_F  
 ClientSampleId :

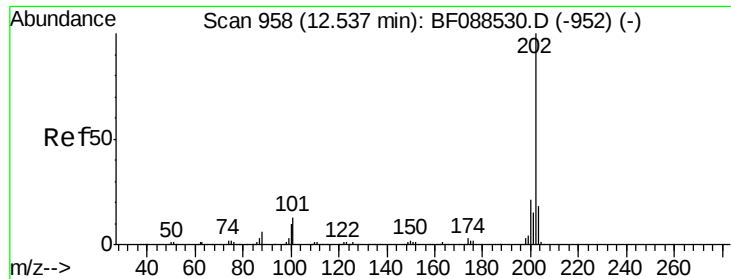
Tot Ion:167 Resp: 28970  
 Ion Ratio Lower Upper  
 167 100  
 166 21.6 17.8 26.6  
 139 13.5 11.2 16.8



#73  
 Di-n-butylphthalate  
 Concen: 4.12 ng  
 RT: 11.76 min Scan# 890  
 Delta R.T. -0.03 min  
 Lab File: BF089044.D  
 Acq: 16 Jul 2016 6:32

Tgt Ion:149 Resp: 32916  
 Ion Ratio Lower Upper  
 149 100  
 150 10.5 7.8 11.6  
 104 5.1 4.0 6.0





#74

Fluoranthene

Concen: 38.64 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

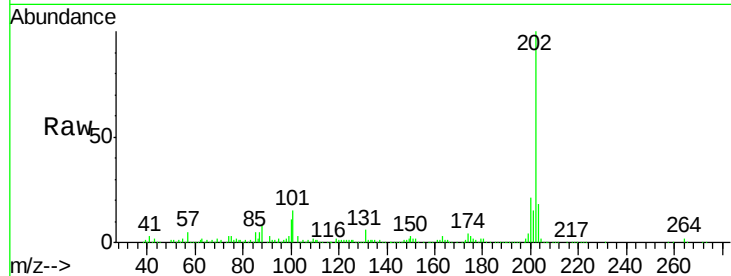
Tot Ion:202 Resp: 287615

Ion Ratio Lower Upper

202 100

101 14.8 0.0 33.1

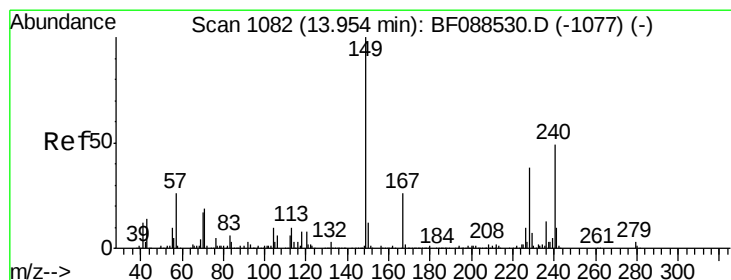
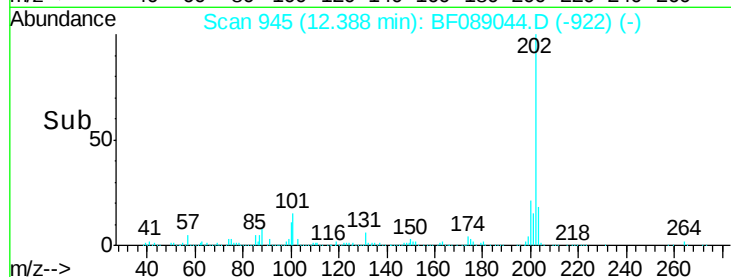
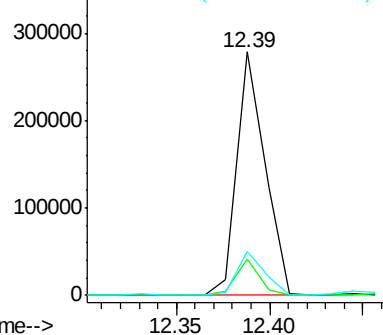
203 17.9 0.0 38.1



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: 20.00 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

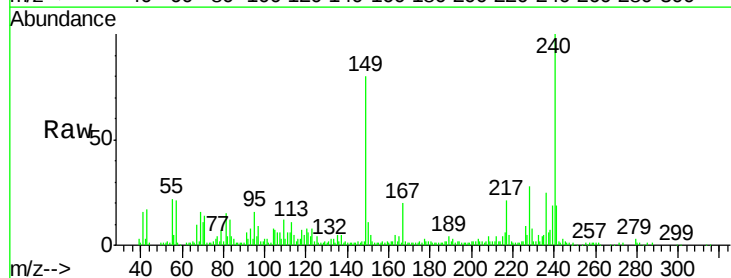
Tgt Ion:240 Resp: 110432

Ion Ratio Lower Upper

240 100

120 8.0 6.8 10.2

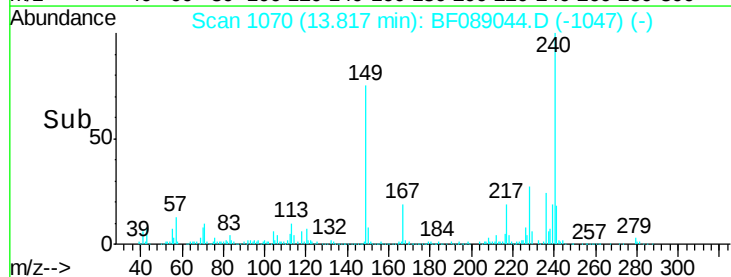
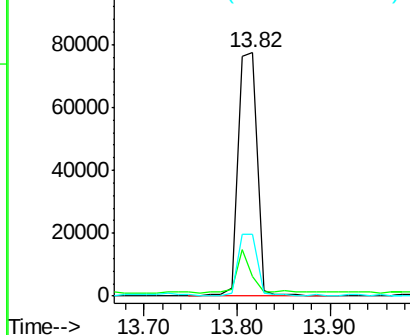
236 25.2 20.2 30.2

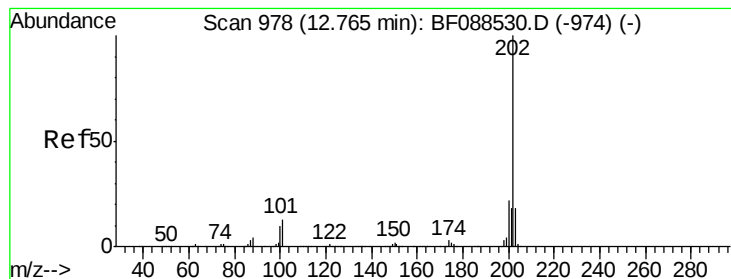


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 28.49 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

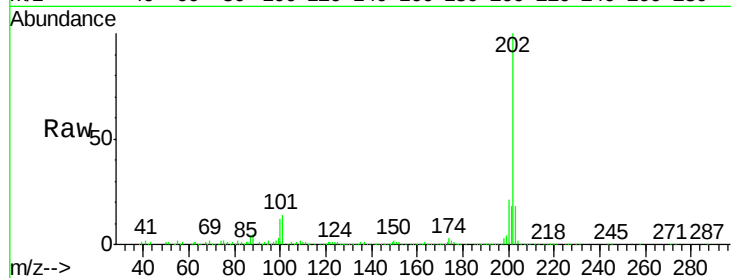
Tot Ion:202 Resp: 266798

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

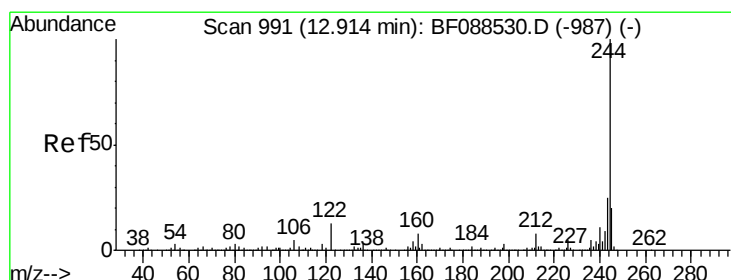
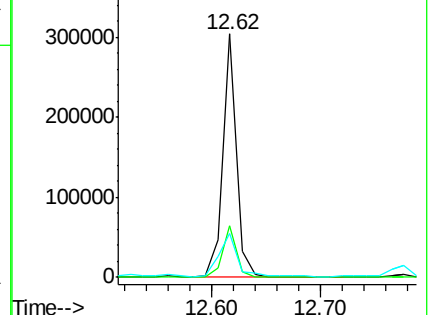
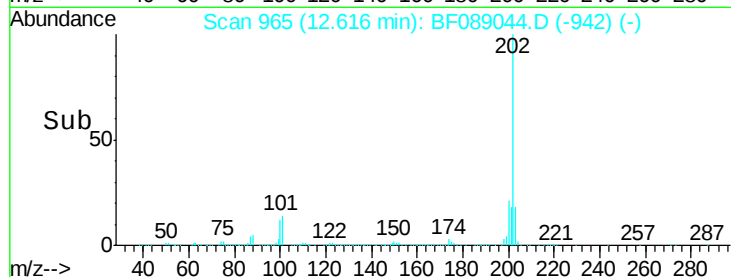
203 18.1 14.5 21.7



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: 22.34 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

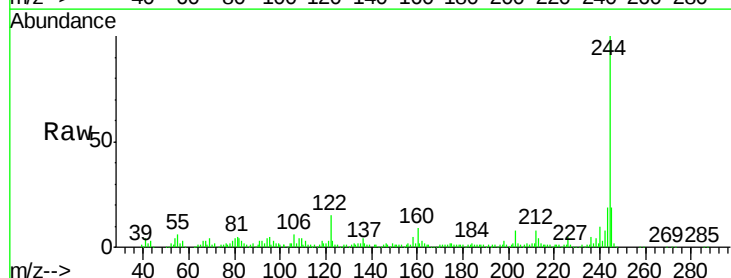
Tgt Ion:244 Resp: 110764

Ion Ratio Lower Upper

244 100

212 8.1 6.0 9.0

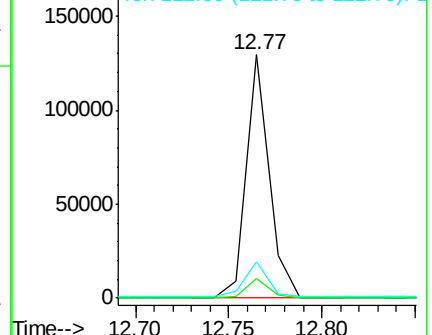
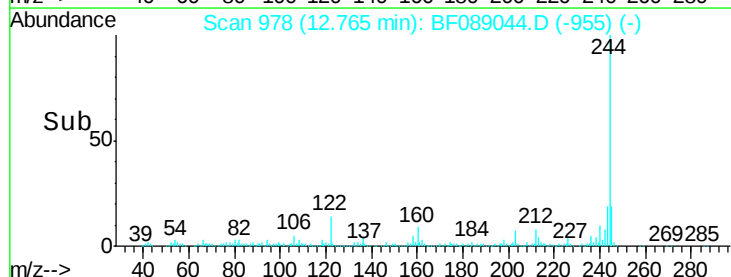
122 14.9 11.2 16.8

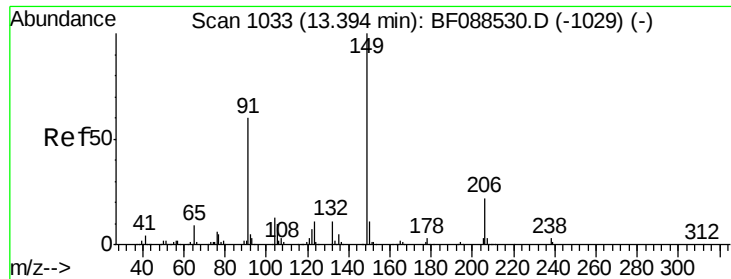


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

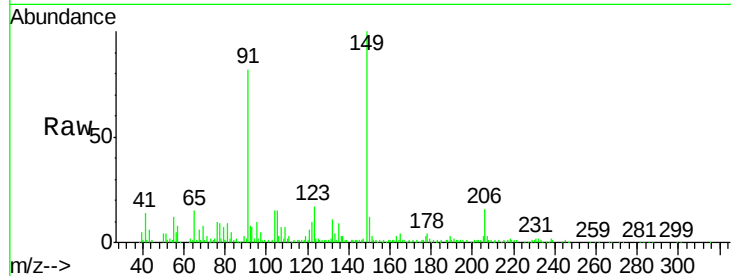




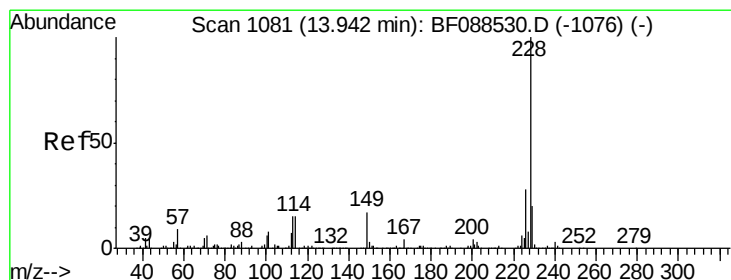
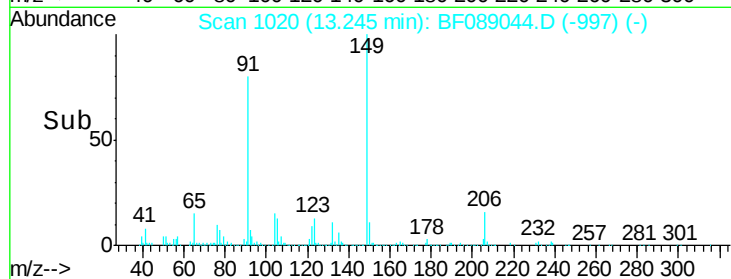
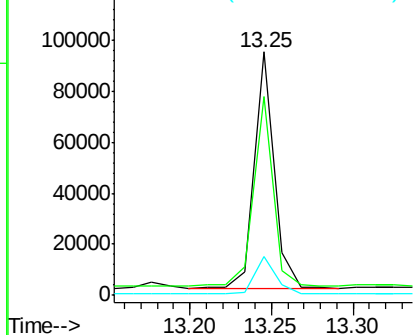
#79  
Butylbenzylphthalate  
Concen: 18.79 ng  
RT: 13.25 min Scan# 1020  
Delta R.T. -0.03 min  
Lab File: BF089044.D  
Acq: 16 Jul 2016 6:32

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 81.6  | 48.0  | 72.0  |
| 206     | 15.8  | 16.0  | 24.0  |

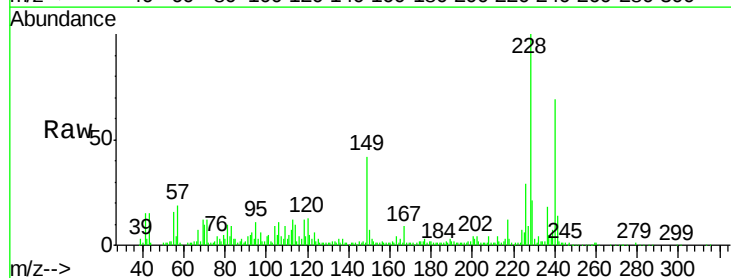


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): BF0  
Ion 206.00 (205.70 to 206.70): E

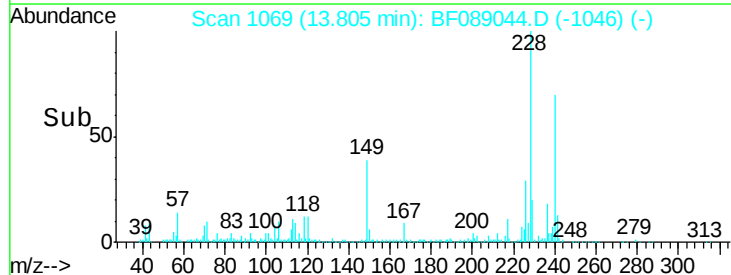
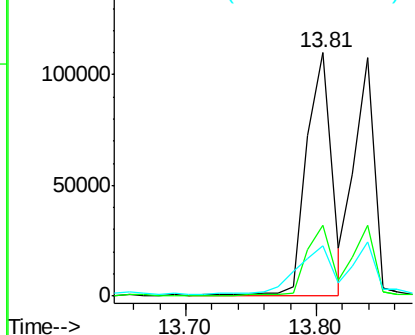


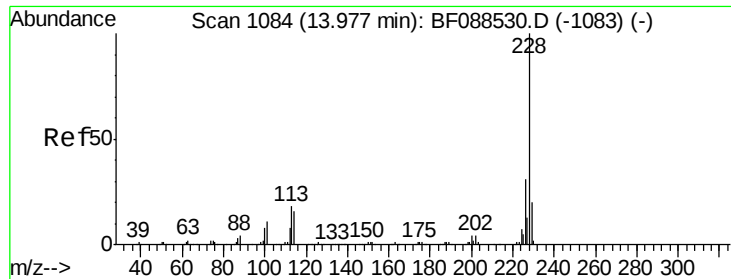
#80  
Benzo(a)anthracene  
Concen: 20.11 ng  
RT: 13.81 min Scan# 1069  
Delta R.T. -0.03 min  
Lab File: BF089044.D  
Acq: 16 Jul 2016 6:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 22.3  | 33.5  |
| 229     | 20.6  | 16.0  | 24.0  |



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

Chrvsene

Concen: 20.33 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.07 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampled :

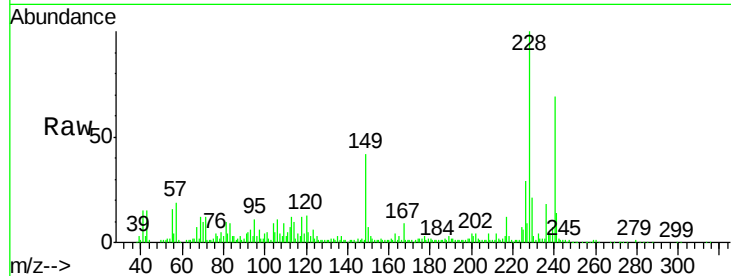
Tot Ion:228 Resp: 142995

Ion Ratio Lower Upper

228 100

226 29.3 25.4 38.2

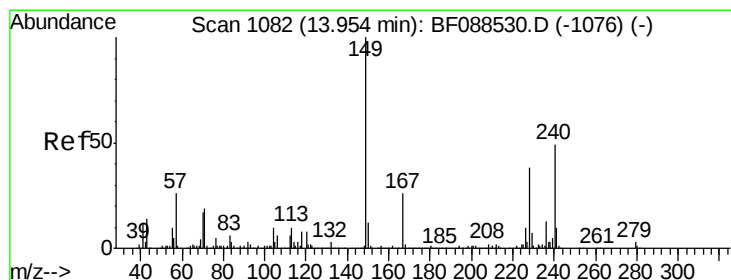
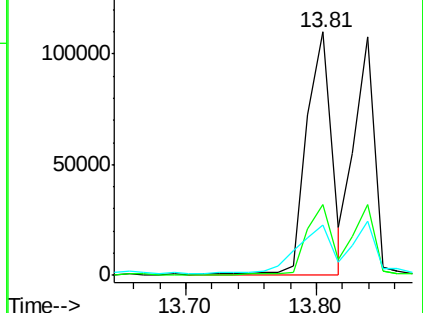
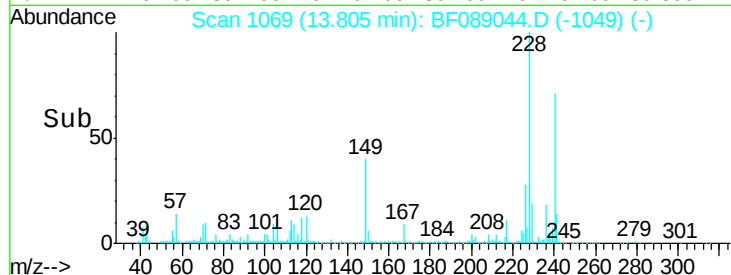
229 20.6 16.3 24.5



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 16.02 ng

RT: 13.82 min Scan# 1070

Delta R.T. -0.02 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

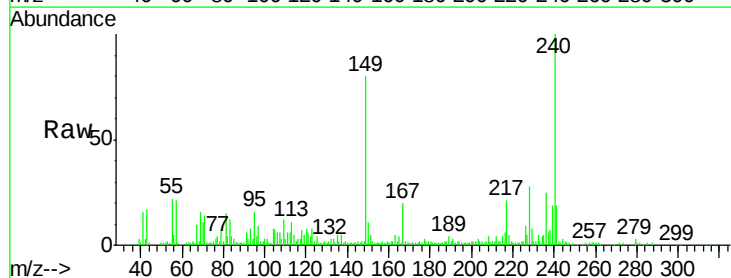
Tgt Ion:149 Resp: 76371

Ion Ratio Lower Upper

149 100

167 25.0 20.5 30.7

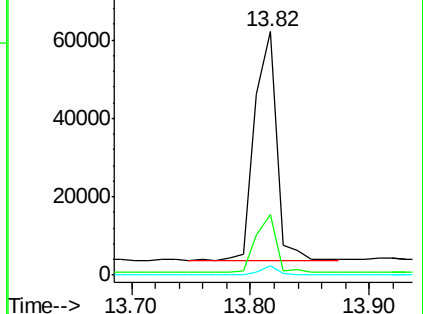
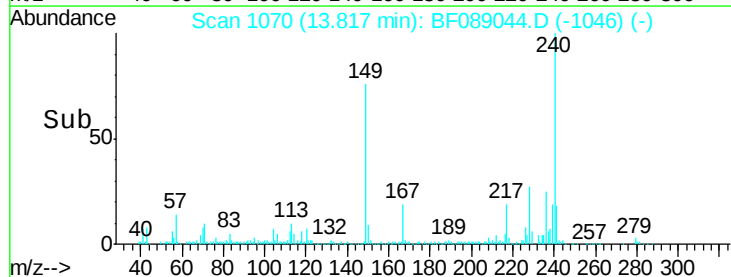
279 3.6 2.0 3.0#

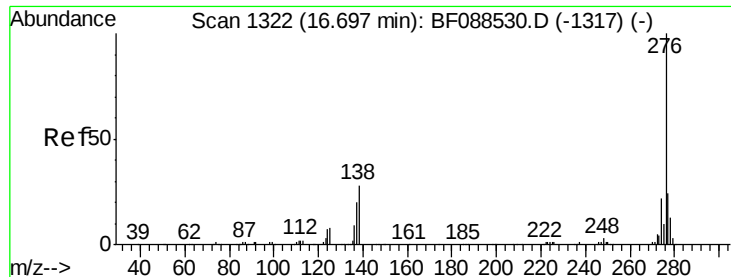


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

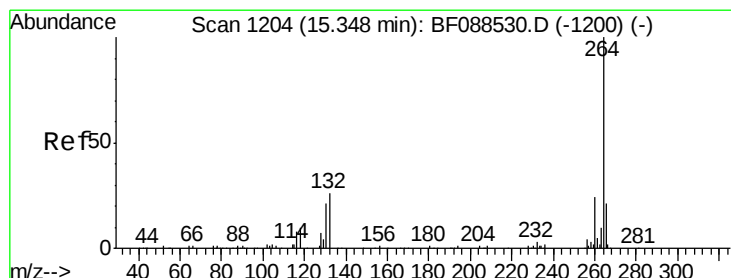
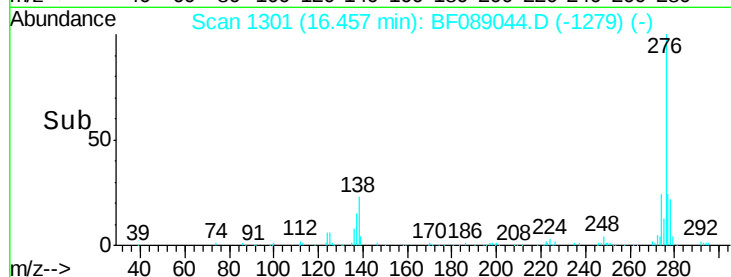
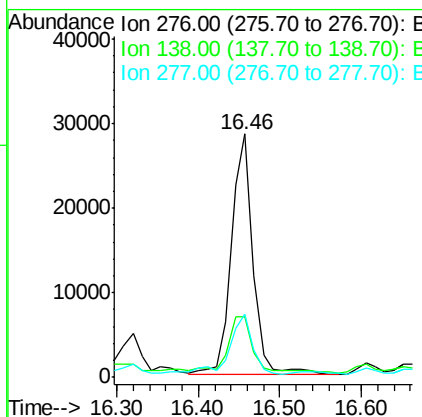
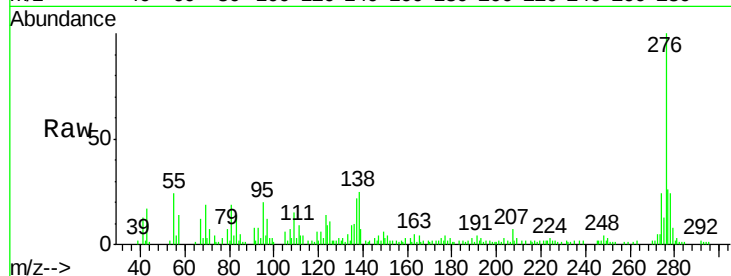




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 9.64 ng  
 RT: 16.46 min Scan# 1301  
 Delta R.T. -0.05 min  
 Lab File: BF089044.D  
 Acq: 16 Jul 2016 6:32

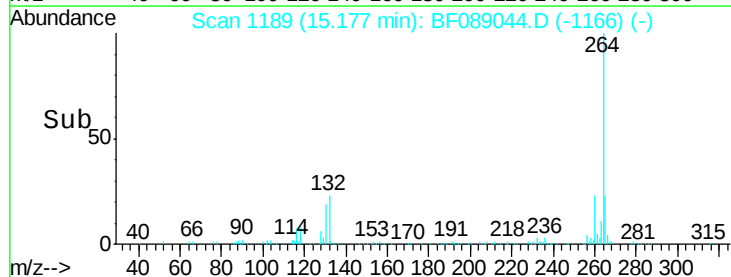
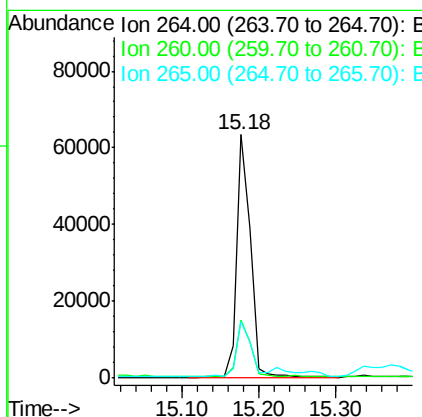
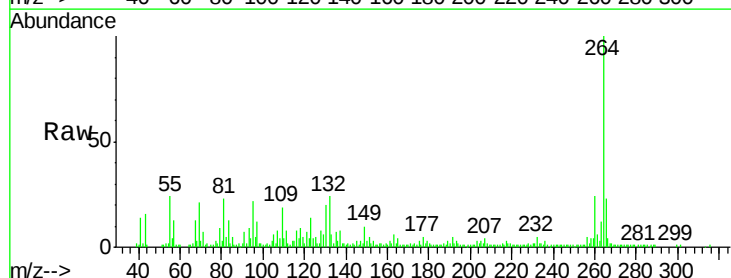
Instrument :  
 BNA\_F  
 ClientSampleId :

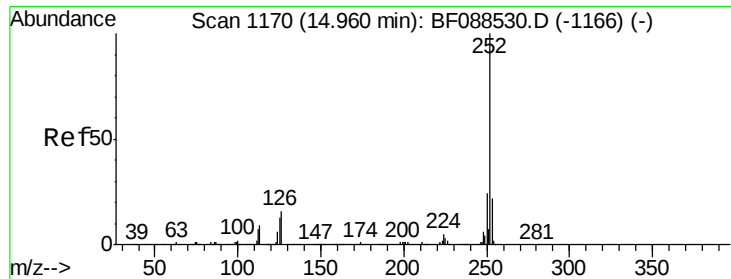
Tot Ion:276 Resp: 52202  
 Ion Ratio Lower Upper  
 276 100  
 138 25.7 0.0 0.0#  
 277 27.2 0.0 0.0#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.18 min Scan# 1189  
 Delta R.T. -0.03 min  
 Lab File: BF089044.D  
 Acq: 16 Jul 2016 6:32

Tgt Ion:264 Resp: 82051  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.2 28.8  
 265 23.1 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 33.68 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.02 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

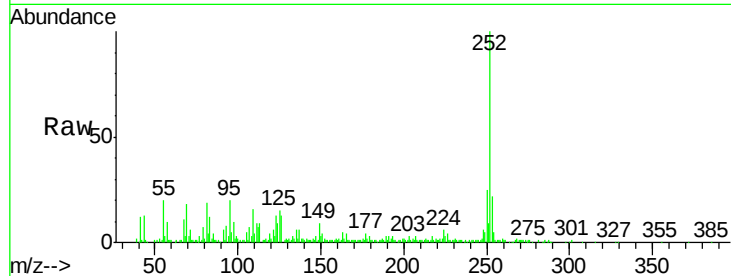
Tot Ion:252 Resp: 173340

Ion Ratio Lower Upper

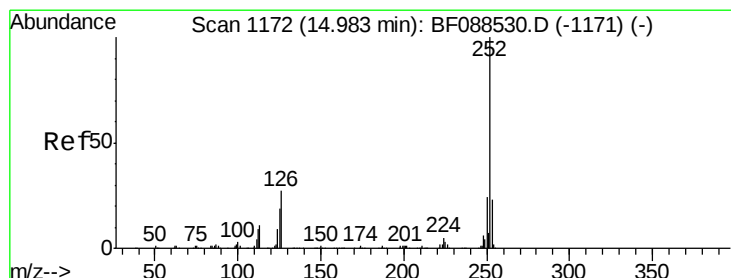
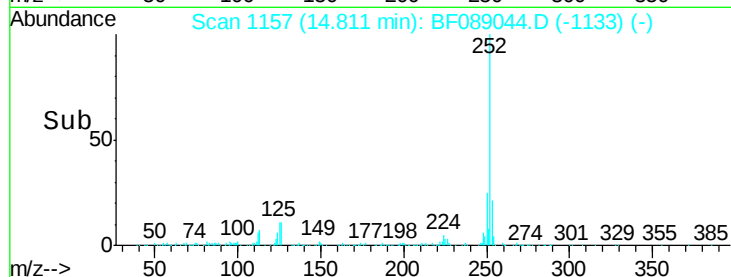
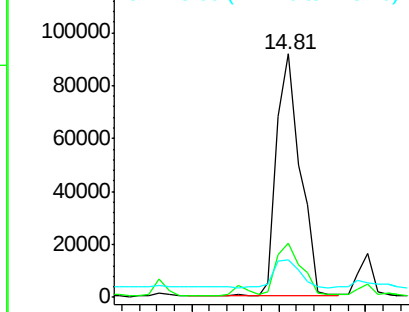
252 100

253 22.2 17.4 26.2

125 15.4 7.1 10.7#



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



#88

Benzo(k)fluoranthene

Concen: 38.68 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.06 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

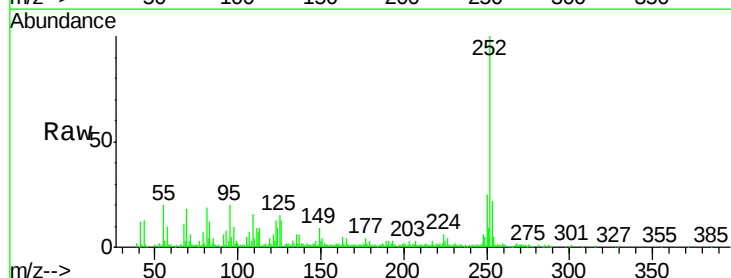
Tgt Ion:252 Resp: 173340

Ion Ratio Lower Upper

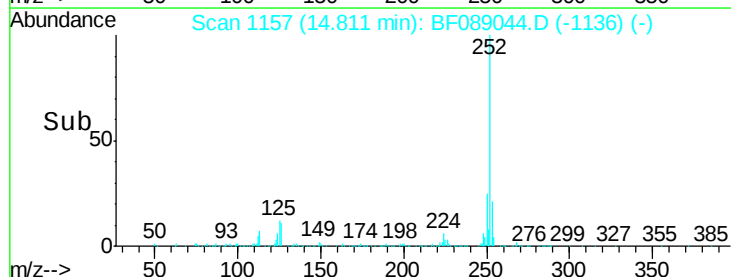
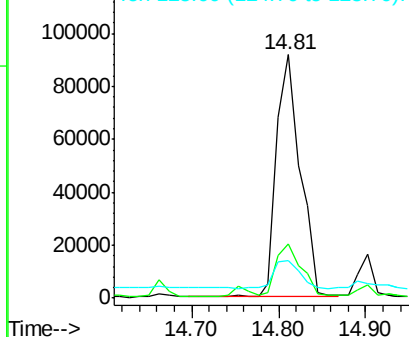
252 100

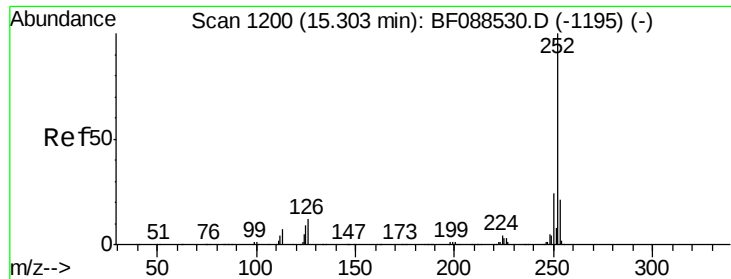
253 22.2 18.0 27.0

125 15.4 11.2 16.8



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





#89

Benzo(a)pyrene

Concen: 18.46 ng

RT: 15.13 min Scan# 1185

Delta R.T. -0.03 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

Instrument :

BNA\_F

ClientSampleId :

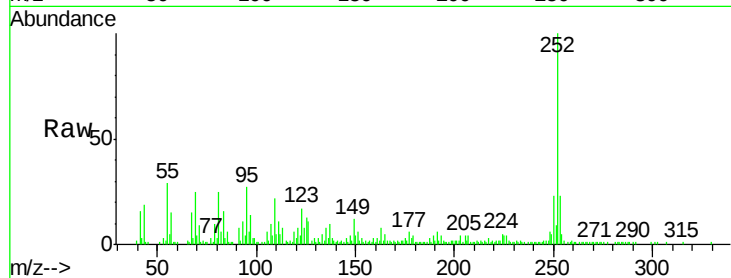
Tot Ion:252 Resp: 80465

Ion Ratio Lower Upper

252 100

253 23.3 17.9 26.9

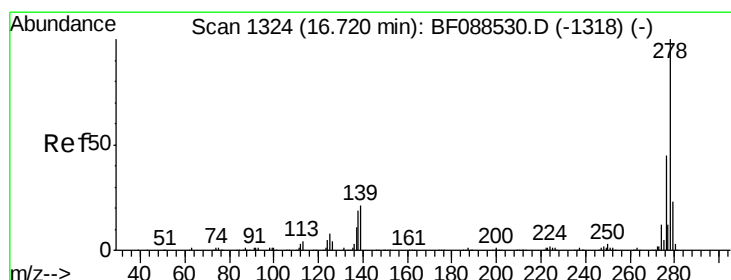
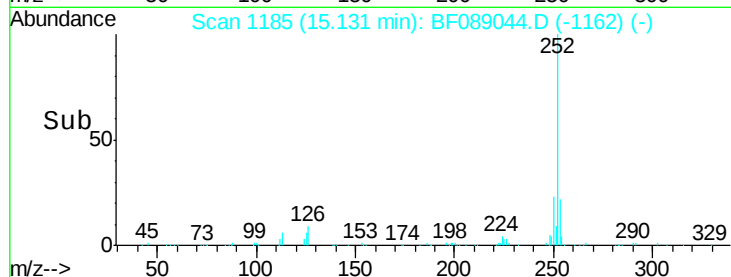
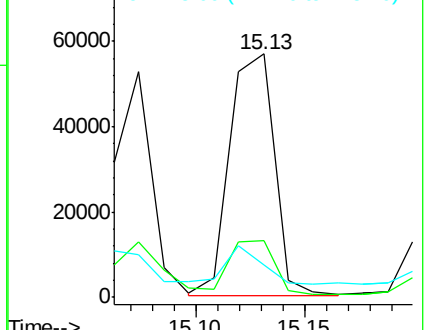
125 13.1 12.5 18.7



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



#90

Dibenzo(a,h)anthracene

Concen: 4.98 ng

RT: 16.46 min Scan# 1301

Delta R.T. -0.06 min

Lab File: BF089044.D

Acq: 16 Jul 2016 6:32

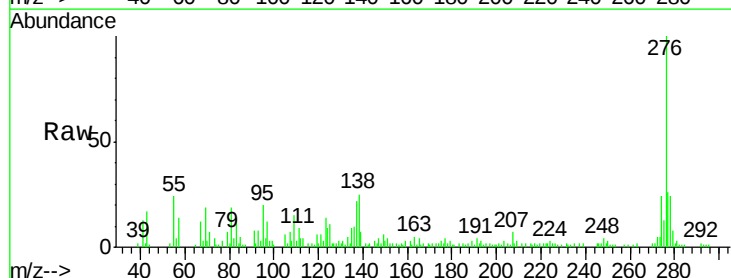
Tgt Ion:278 Resp: 18127

Ion Ratio Lower Upper

278 100

139 29.1 15.7 23.5#

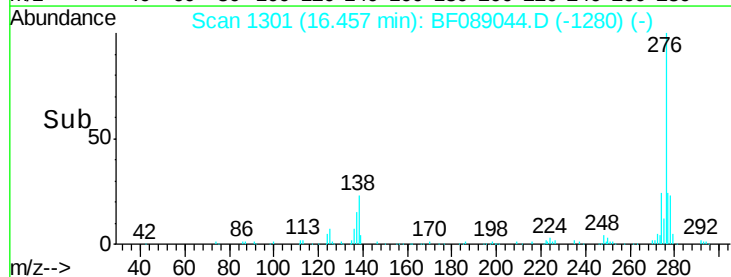
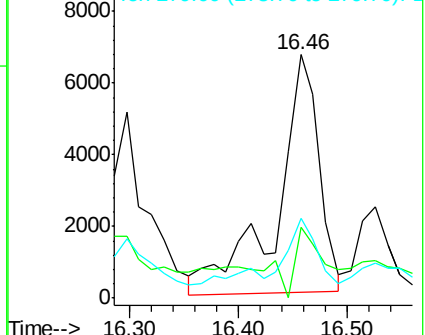
279 32.8 19.4 29.2#

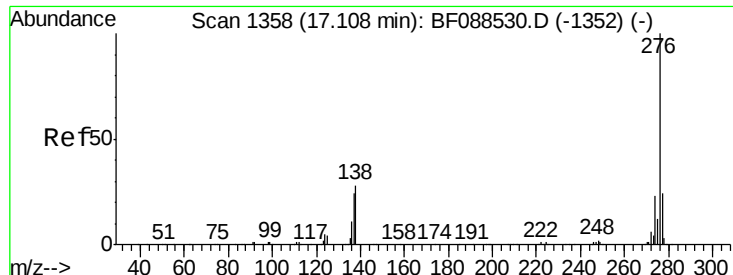


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

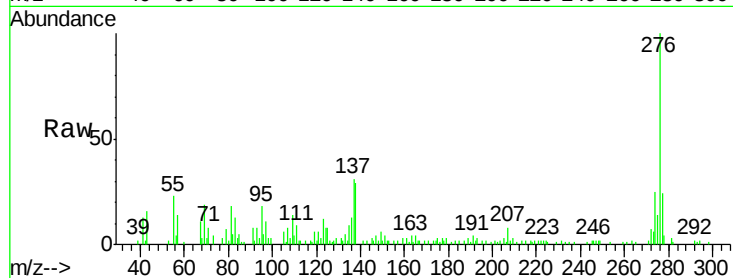




#91  
 Benzo(a,h,i)perylene  
 Concen: 13.89 ng  
 RT: 16.83 min Scan# 1334  
 Delta R.T. -0.06 min  
 Lab File: BF089044.D  
 Acq: 16 Jul 2016 6:32

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 18.9  | 28.3  |
| 138     | 29.4  | 21.4  | 32.2  |



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

