

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042117\  
 Data File : BF094565.D  
 Acq On : 21 Apr 2017 16:27  
 Operator : SJ/MA  
 Sample : I2783-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 21 23:34:06 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 17 14:59:23 2017  
 Response via : Initial Calibration

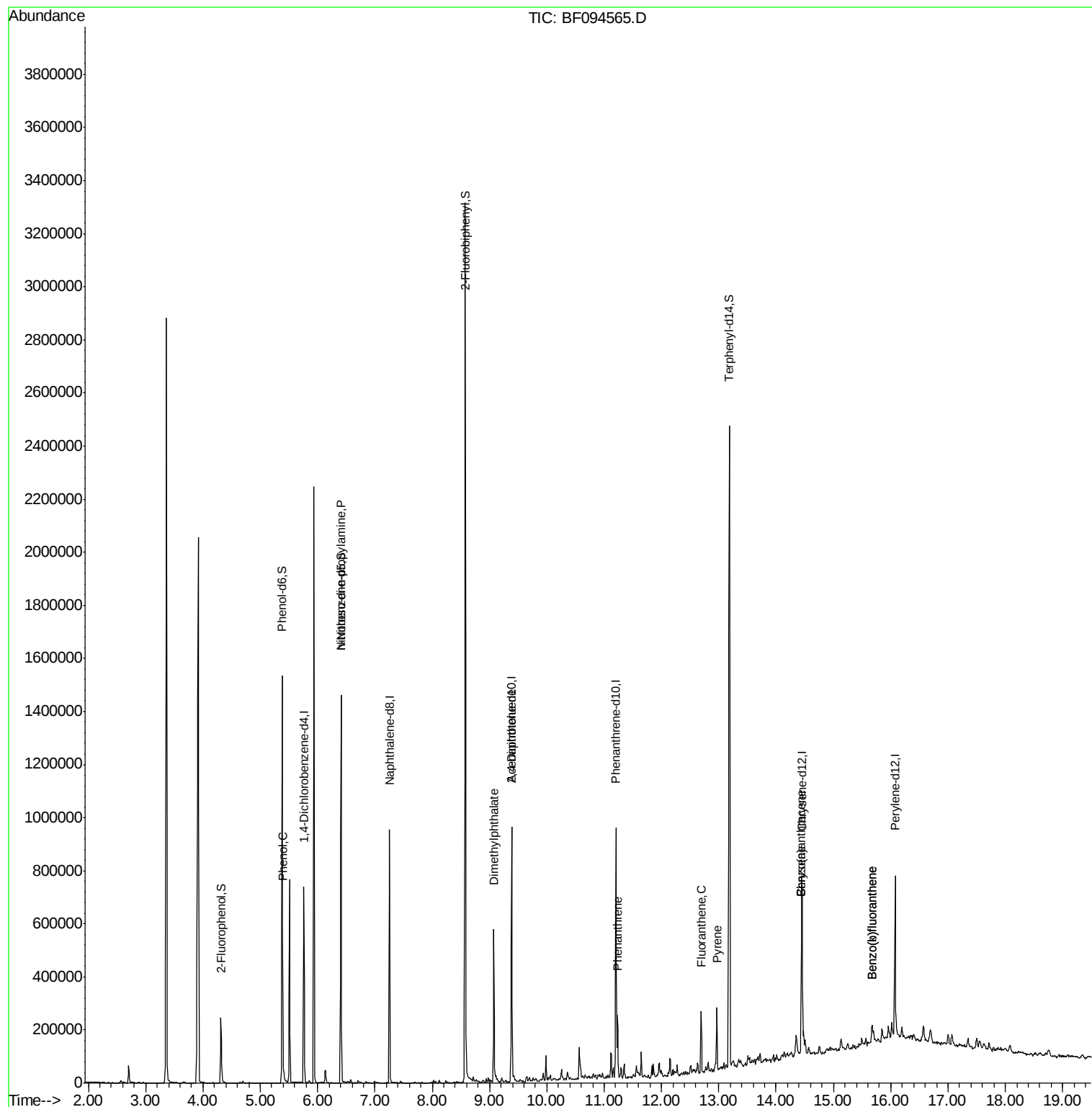
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 5.76  | 152  | 113120   | 20.00 | ng    | 0.00      |
| 21) Naphthalene-d8             | 7.25  | 136  | 439664   | 20.00 | ng    | 0.00      |
| 38) Acenaphthene-d10           | 9.38  | 164  | 217395   | 20.00 | ng    | -0.01     |
| 63) Phenanthrene-d10           | 11.21 | 188  | 390035   | 20.00 | ng    | -0.01     |
| 75) Chrysene-d12               | 14.45 | 240  | 265017   | 20.00 | ng    | -0.02     |
| 86) Perylene-d12               | 16.08 | 264  | 248160   | 20.00 | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 5) 2-Fluorophenol              | 4.31  | 112  | 75611    | 11.09 | ng    | 0.00      |
| 7) Phenol-d6                   | 5.38  | 99   | 548466   | 68.23 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 6.41  | 82   | 560561   | 78.73 | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol       | 10.36 | 330  | 2426     | 1.43  | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 8.58  | 172  | 1165487  | 78.88 | ng    | 0.00      |
| 78) Terphenyl-d14              | 13.18 | 244  | 923990   | 93.19 | ng    | -0.01     |
| Target Compounds               |       |      |          |       |       |           |
| 10) Phenol                     | 5.40  | 94   | 34647    | 3.51  | ng    | Qvalue 90 |
| 19) n-Nitroso-di-n-propylamine | 6.41  | 70   | 73245    | 13.75 | ng    | # 78      |
| 49) Dimethylphthalate          | 9.08  | 163  | 274457   | 16.94 | ng    | 100       |
| 56) 2,4-Dinitrotoluene         | 9.38  | 165  | 27144    | 6.08  | ng    | # 34      |
| 70) Phenanthrene               | 11.23 | 178  | 89957    | 4.10  | ng    | 96        |
| 74) Fluoranthene               | 12.69 | 202  | 105675   | 4.64  | ng    | 97        |
| 77) Pyrene                     | 12.97 | 202  | 93515    | 5.05  | ng    | 97        |
| 80) Benzo(a)anthracene         | 14.44 | 228  | 31574    | 2.05  | ng    | 99        |
| 82) Chrysene                   | 14.44 | 228  | 31574    | 2.24  | ng    | 96        |
| 87) Benzo(b)fluoranthene       | 15.68 | 252  | 50824    | 3.35  | ng    | # 92      |
| 88) Benzo(k)fluoranthene       | 15.68 | 252  | 50824    | 3.54  | ng    | # 95      |

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

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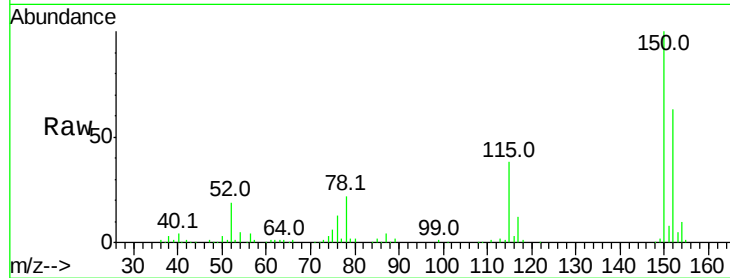


#1

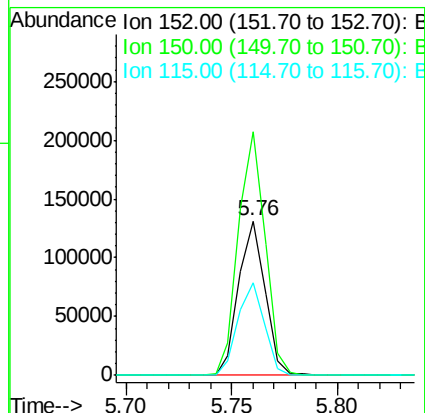
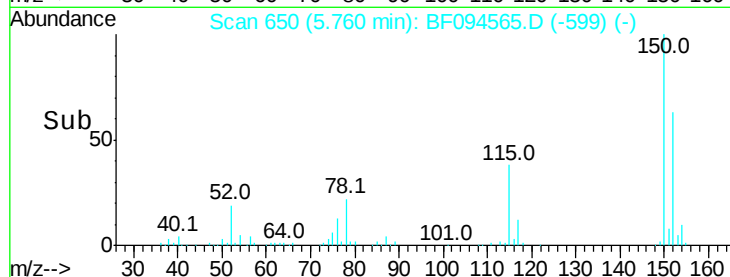
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.76 min Scan# 650  
Delta R.T. -0.00 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 113120  
Ion Ratio Lower Upper  
152 100  
150 158.1 126.2 189.2  
115 59.7 52.2 78.2



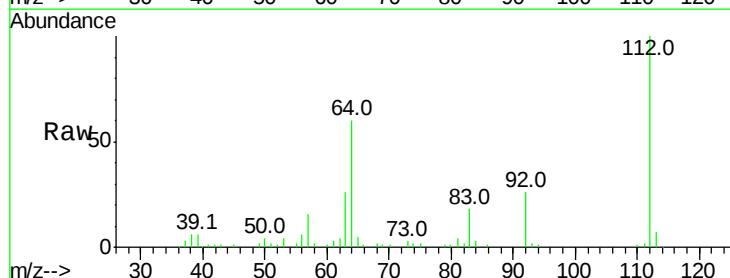
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



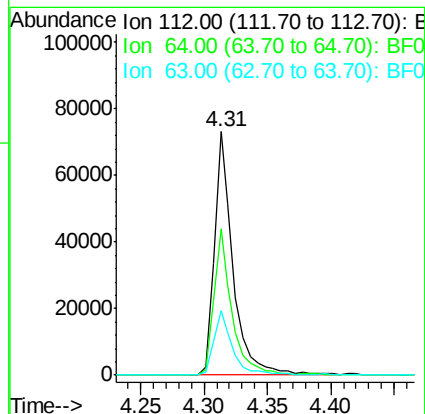
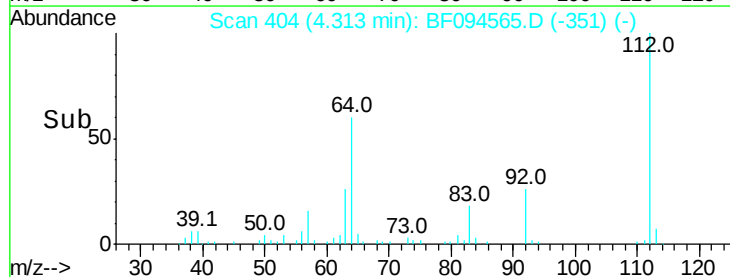
#5

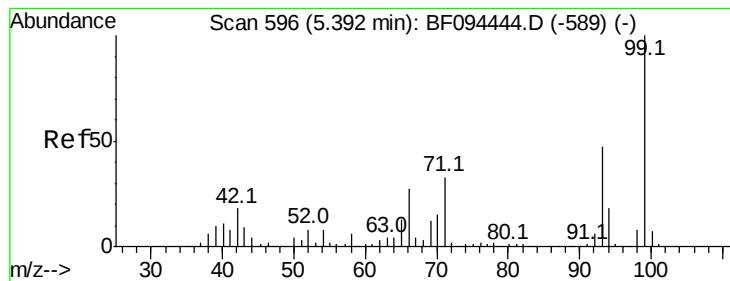
2-Fluorophenol  
Concen: 11.09 ng  
RT: 4.31 min Scan# 404  
Delta R.T. 0.01 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

Tgt Ion:112 Resp: 75611  
Ion Ratio Lower Upper  
112 100  
64 60.3 46.0 69.0  
63 26.5 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: 68.23 ng

RT: 5.38 min Scan# 586

Delta R.T. -0.01 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

Instrument :

BNA\_F

ClientSampleId :

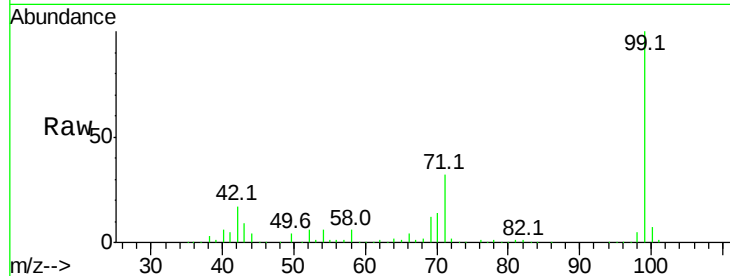
Tot Ion: 99 Resp: 548466

Ion Ratio Lower Upper

99 100

42 16.8 13.5 20.3

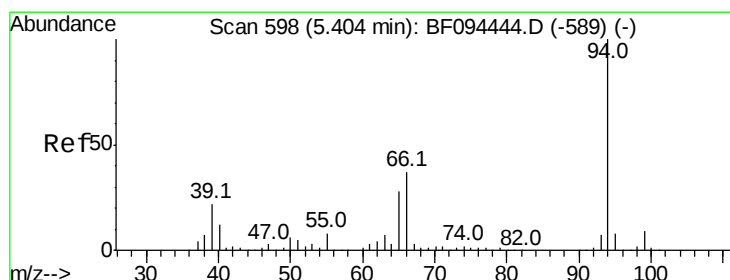
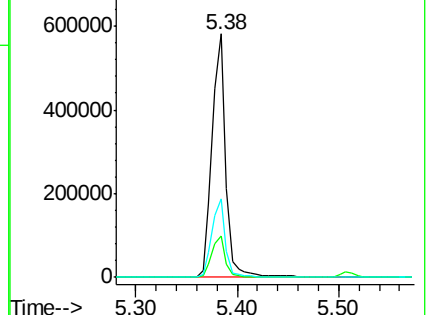
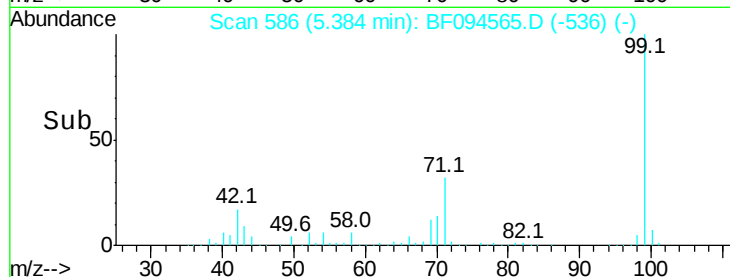
71 32.4 24.5 36.7



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



#10

Phenol

Concen: 3.51 ng

RT: 5.40 min Scan# 588

Delta R.T. -0.01 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

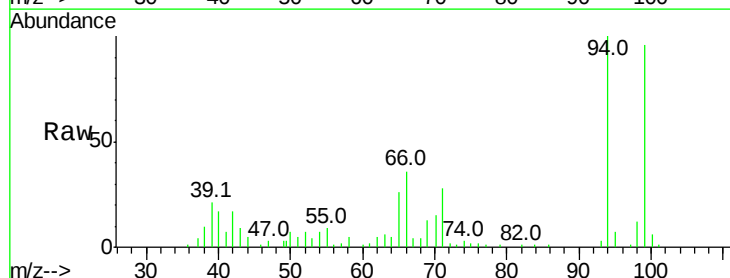
Tgt Ion: 94 Resp: 34647

Ion Ratio Lower Upper

94 100

65 25.8 9.9 49.9

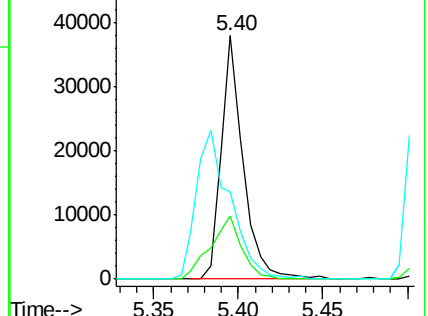
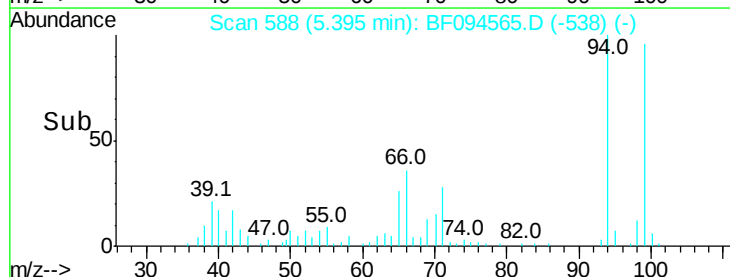
66 35.7 23.1 63.1

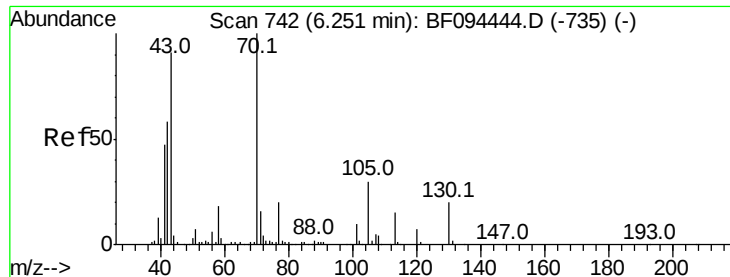


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

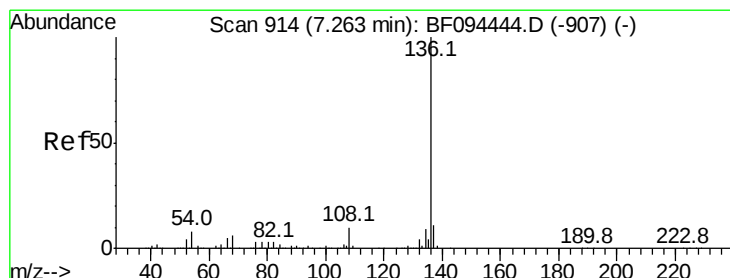
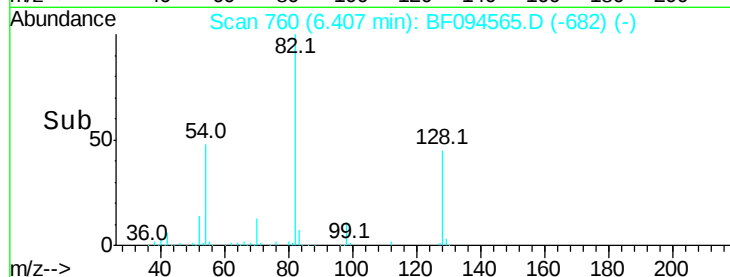
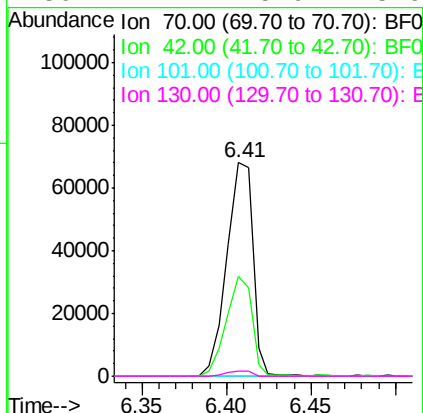
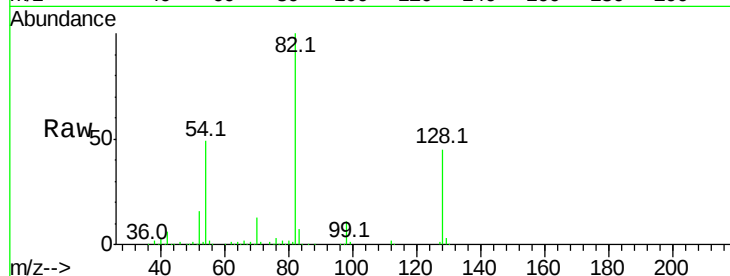




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.75 ng  
RT: 6.41 min Scan# 760  
Delta R.T. 0.16 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

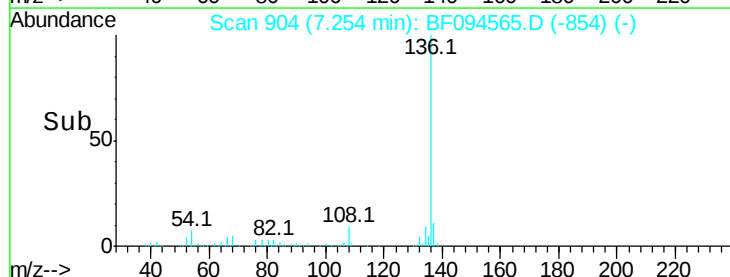
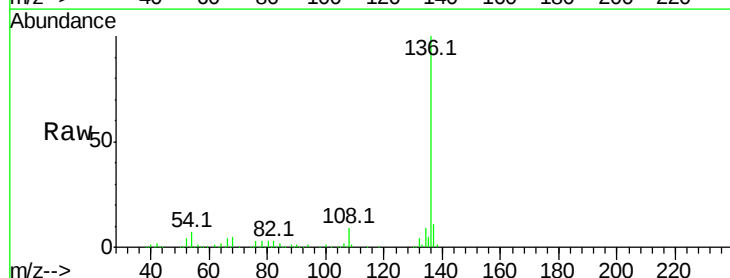
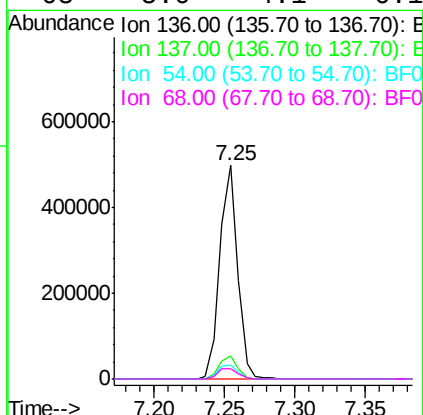
Instrument :  
BNA\_F  
ClientSampled :

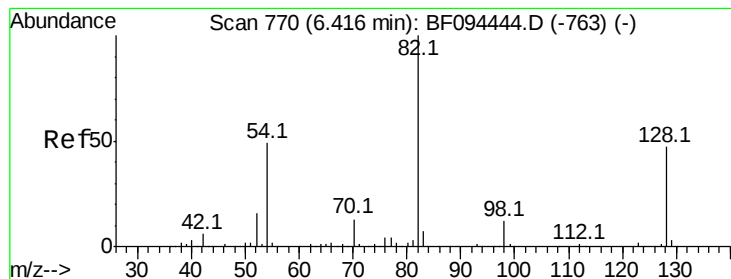
Tot Ion: 70 Resp: 73245  
Ion Ratio Lower Upper  
70 100  
42 46.8 47.2 70.8#  
101 0.0 7.2 10.8#  
130 2.2 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.25 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

Tgt Ion:136 Resp: 439664  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.5 12.7  
54 6.8 4.9 7.3  
68 5.0 4.1 6.1





#23

Nitrobenzene-d5

Concen: 78.73 ng

RT: 6.41 min Scan# 760

Delta R.T. -0.01 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

Instrument :

BNA\_F

ClientSampleId :

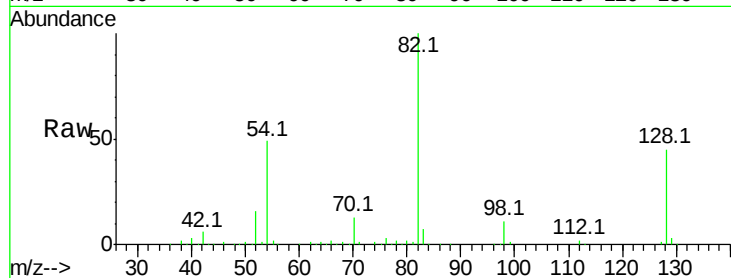
Tot Ion: 82 Resp: 560561

Ion Ratio Lower Upper

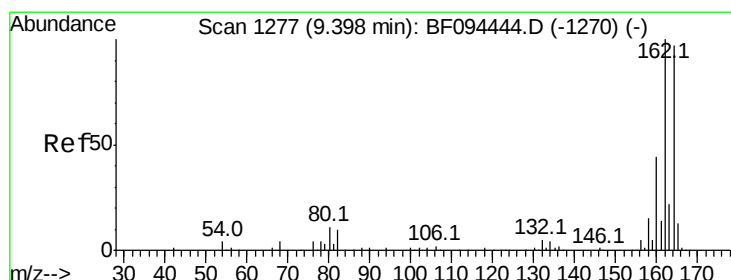
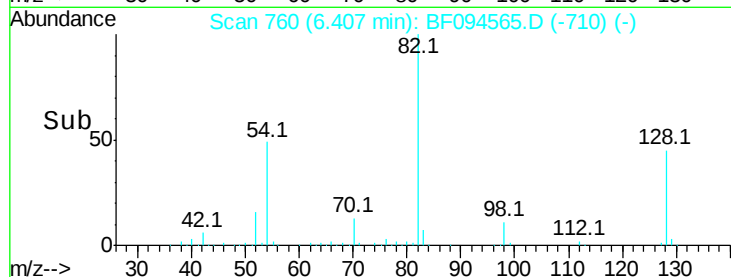
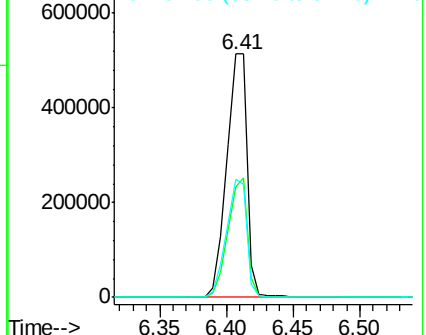
82 100

128 45.4 34.0 51.0

54 48.8 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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.38 min Scan# 1266

Delta R.T. -0.01 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

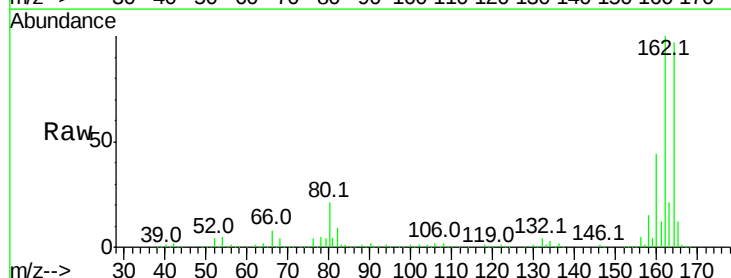
Tgt Ion:164 Resp: 217395

Ion Ratio Lower Upper

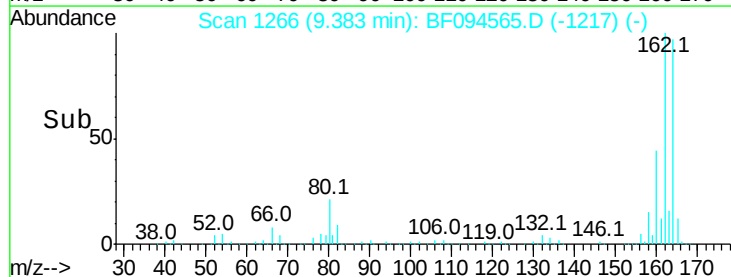
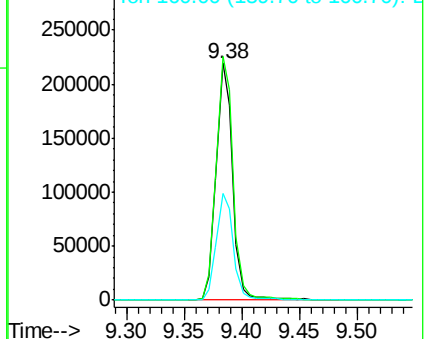
164 100

162 102.9 82.6 123.8

160 44.9 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): B  
Ion 162.00 (161.70 to 162.70): B  
Ion 160.00 (159.70 to 160.70): B

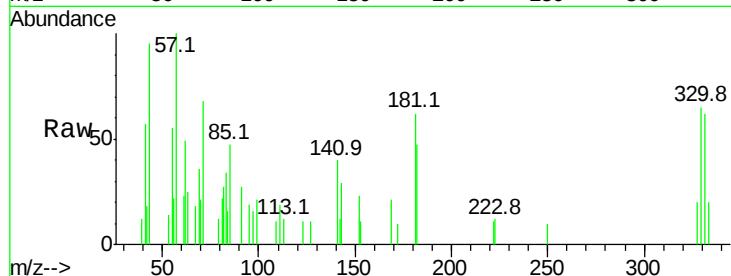




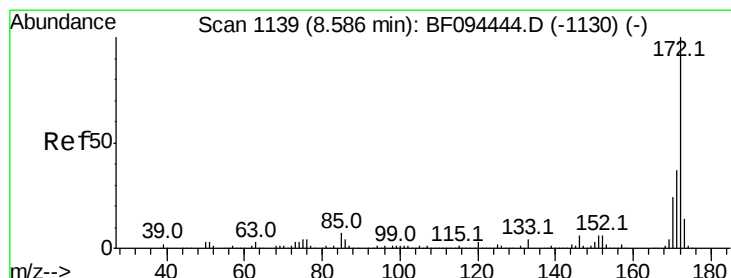
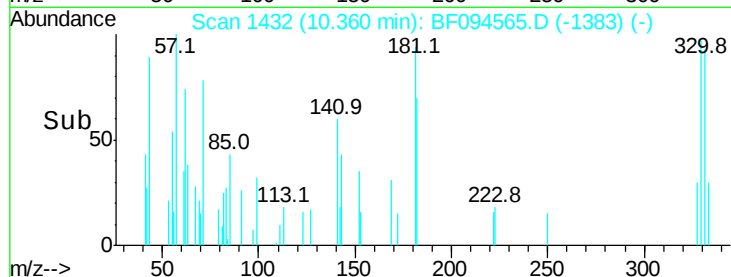
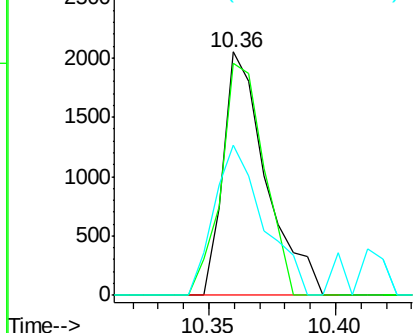
#41  
 2,4,6-Tribromophenol  
 Concen: 1.43 ng  
 RT: 10.36 min Scan# 1432  
 Delta R.T. -0.01 min  
 Lab File: BF094565.D  
 Acq: 21 Apr 2017 16:27

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 2426  
 Ion Ratio Lower Upper  
 330 100  
 332 94.7 76.6 115.0  
 141 71.2 31.4 47.2#

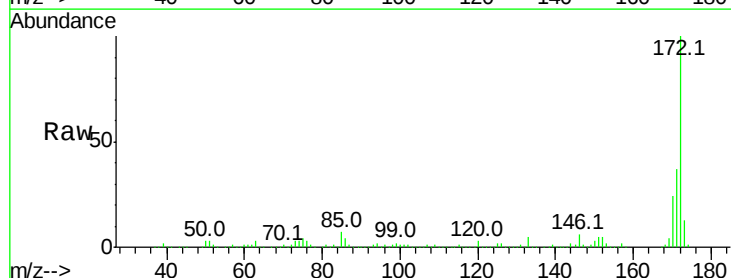


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

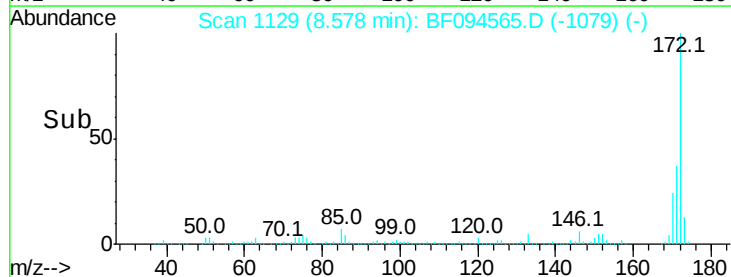
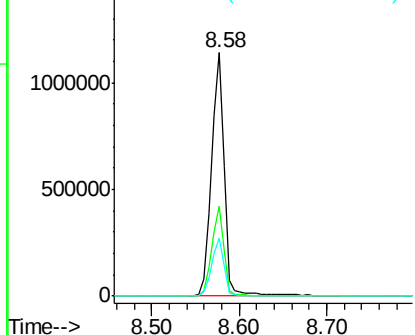


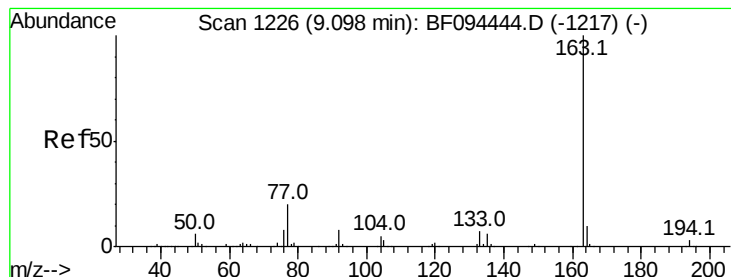
#44  
 2-Fluorobiphenyl  
 Concen: 78.88 ng  
 RT: 8.58 min Scan# 1129  
 Delta R.T. -0.01 min  
 Lab File: BF094565.D  
 Acq: 21 Apr 2017 16:27

Tgt Ion:172 Resp: 1165487  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 29.6 44.4  
 170 23.9 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





#49

Dimethylphthalate

Concen: 16.94 ng

RT: 9.08 min Scan# 1214

Delta R.T. -0.02 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

Instrument :

BNA\_F

ClientSampleId :

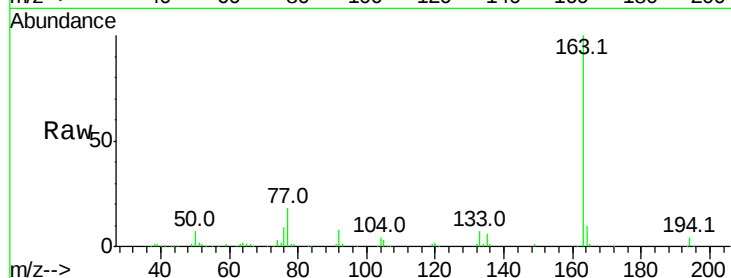
Tot Ion:163 Resp: 274457

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

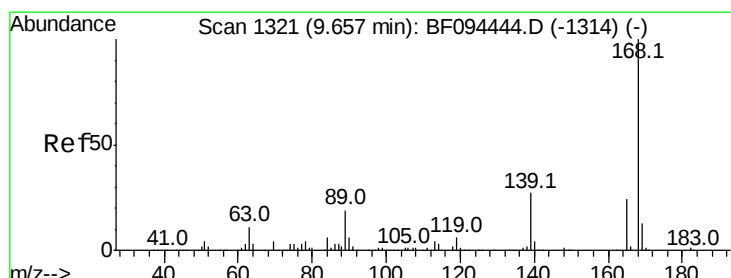
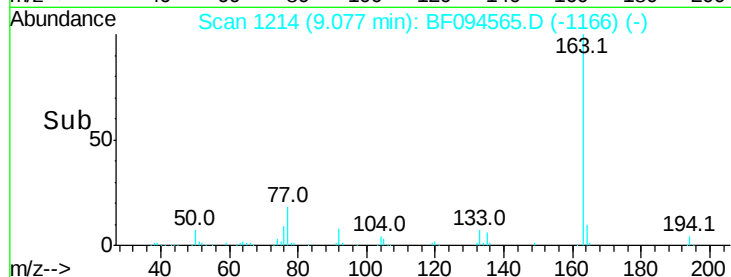
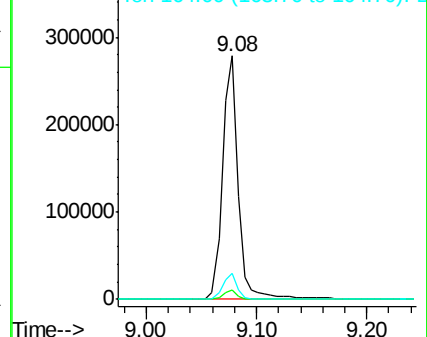
164 10.4 8.4 12.6



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



#56

2,4-Dinitrotoluene

Concen: 6.08 ng

RT: 9.38 min Scan# 1266

Delta R.T. -0.27 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

Tgt Ion:165 Resp: 27144

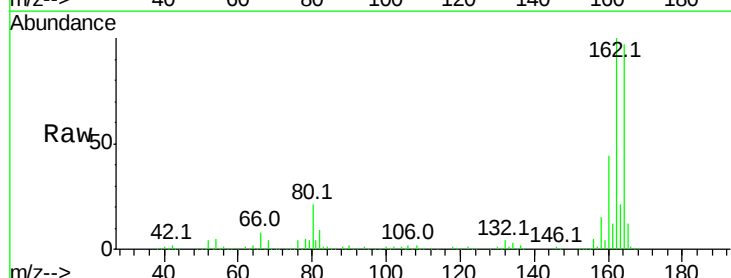
Ion Ratio Lower Upper

165 100

63 1.8 25.4 38.0#

89 2.0 46.4 69.6#

182 0.0 1.8 2.6#

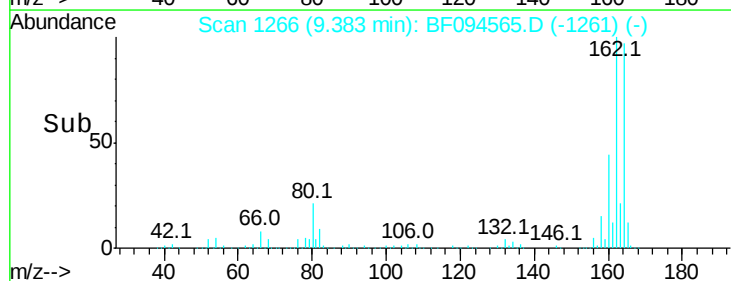
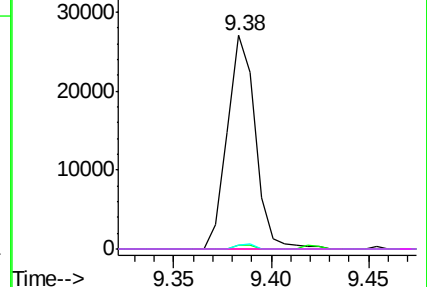


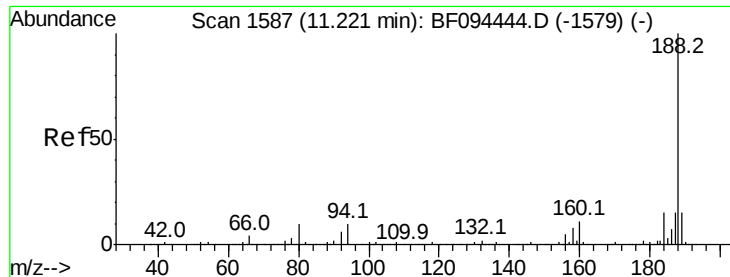
Abundance Ion 165.00 (164.70 to 165.70): E

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

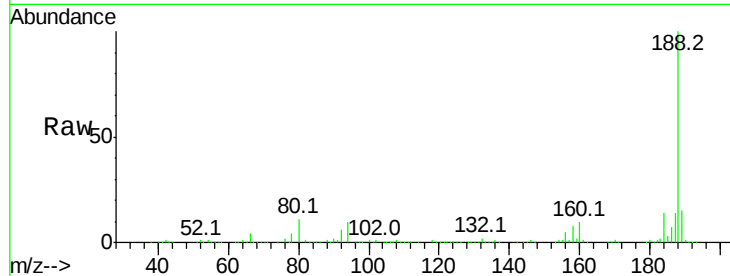




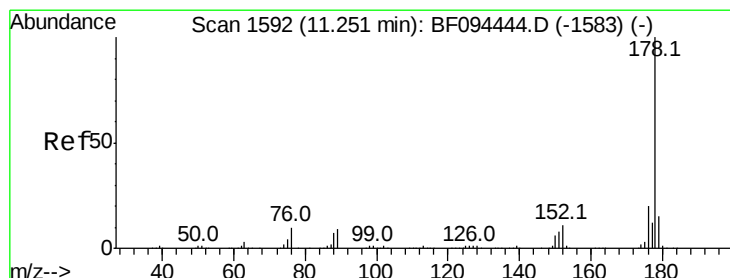
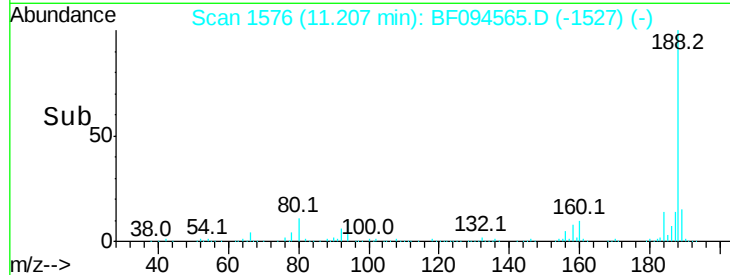
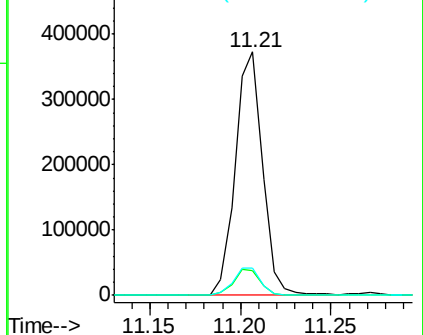
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.21 min Scan# 1576  
Delta R.T. -0.01 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 390035  
Ion Ratio Lower Upper  
188 100  
94 10.2 9.4 14.2  
80 11.2 10.2 15.2

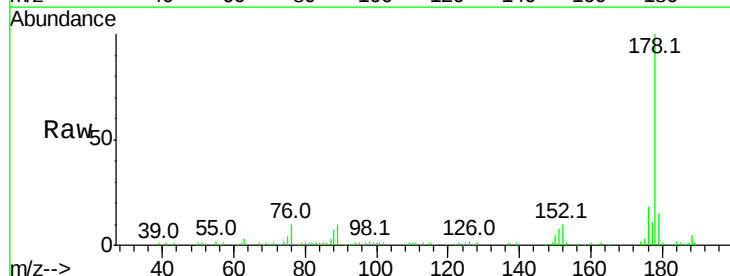


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

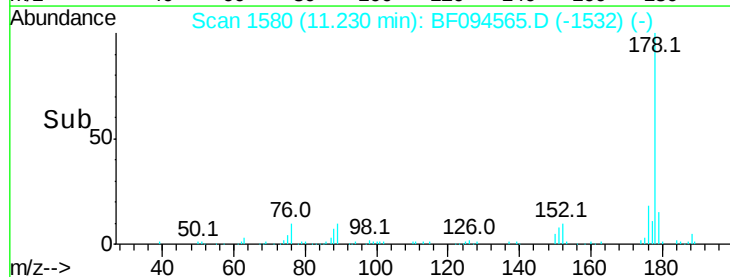
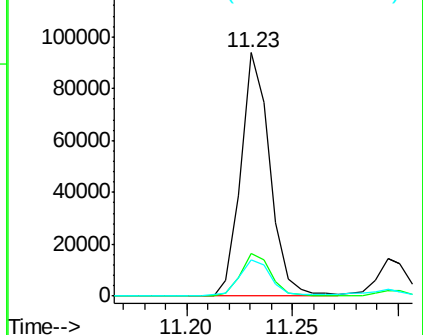


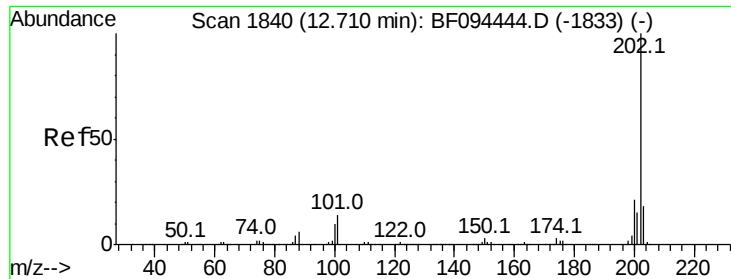
#70  
Phenanthrene  
Concen: 4.10 ng  
RT: 11.23 min Scan# 1580  
Delta R.T. -0.02 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

Tgt Ion:178 Resp: 89957  
Ion Ratio Lower Upper  
178 100  
176 17.7 16.2 24.4  
179 15.1 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





#74

Fluoranthene

Concen: 4.64 ng

RT: 12.69 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

Instrument :

BNA\_F

ClientSampleId :

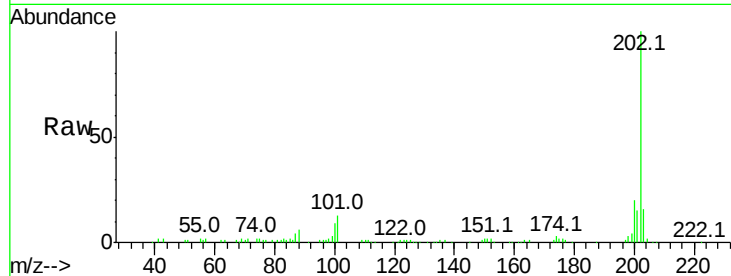
Tot Ion:202 Resp: 105675

Ion Ratio Lower Upper

202 100

101 12.5 0.0 33.2

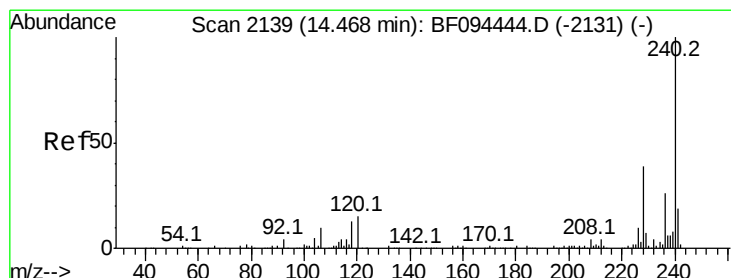
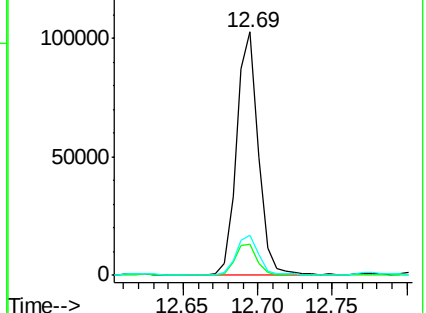
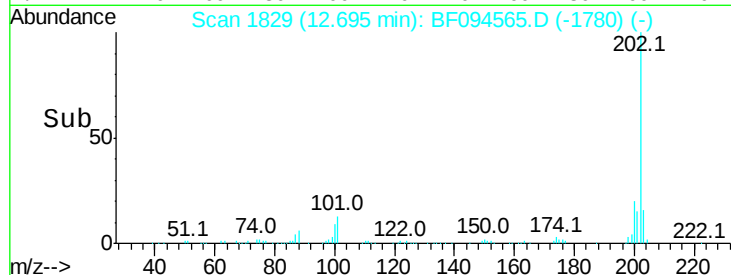
203 16.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.45 min Scan# 2127

Delta R.T. -0.02 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

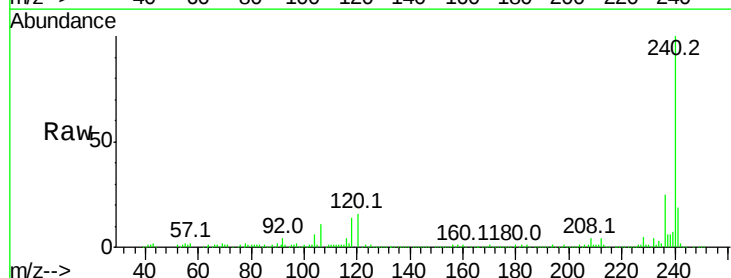
Tgt Ion:240 Resp: 265017

Ion Ratio Lower Upper

240 100

120 15.7 5.8 8.8#

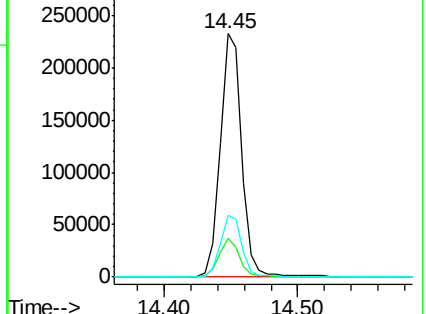
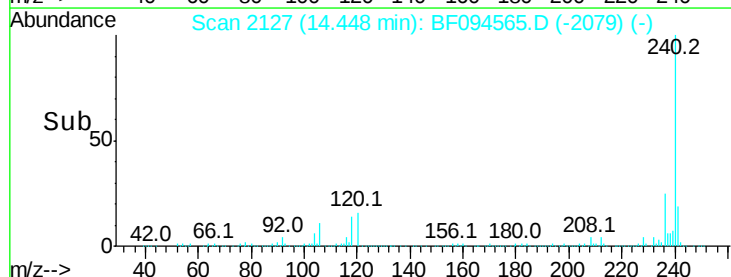
236 25.1 20.5 30.7

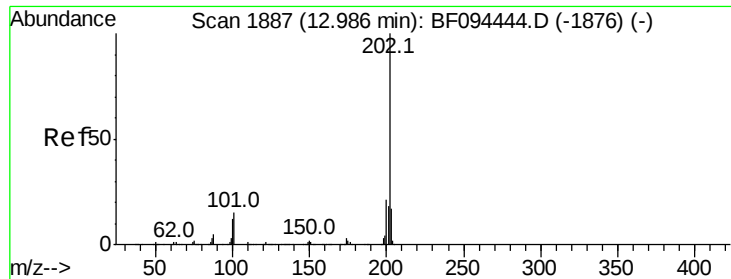


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

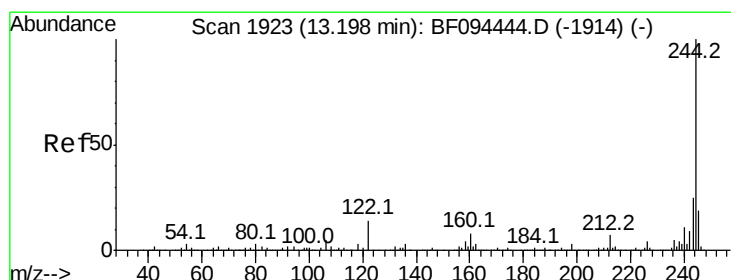
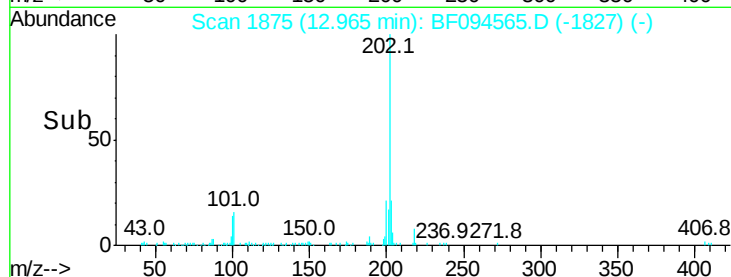
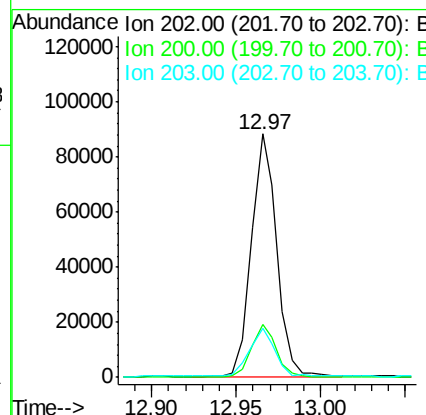
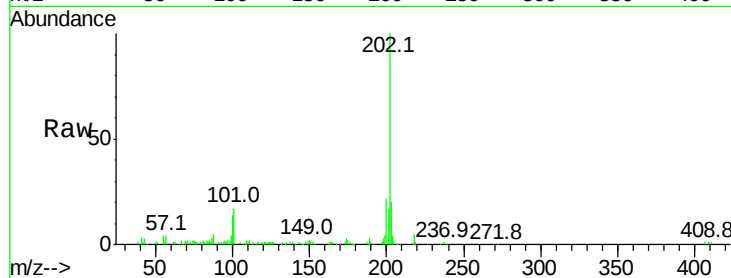




#77  
Pvrene  
Concen: 5.05 ng  
RT: 12.97 min Scan# 1875  
Delta R.T. -0.02 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

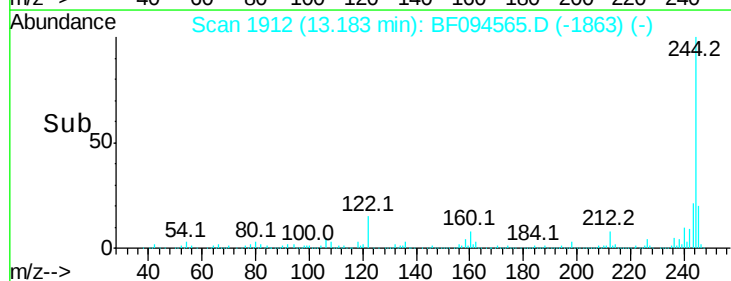
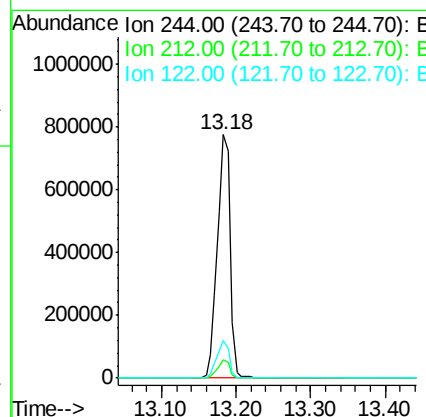
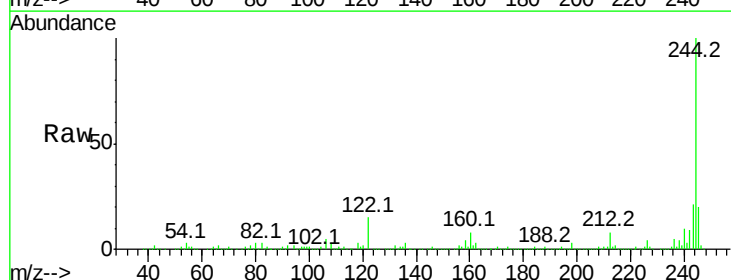
Instrument :  
BNA\_F  
ClientSampleId :

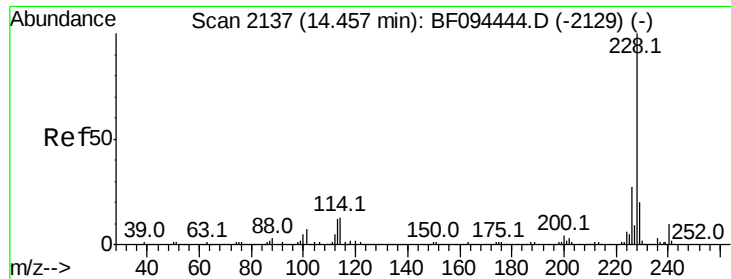
Tot Ion:202 Resp: 93515  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.6 26.4  
203 20.1 14.4 21.6



#78  
Terphenyl-d14  
Concen: 93.19 ng  
RT: 13.18 min Scan# 1912  
Delta R.T. -0.01 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

Tgt Ion:244 Resp: 923990  
Ion Ratio Lower Upper  
244 100  
212 7.6 6.0 9.0  
122 15.3 10.3 15.5





#80

Benzo(a)anthracene

Concen: 2.05 ng

RT: 14.44 min Scan# 2125

Delta R.T. -0.02 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

Instrument :

BNA\_F

ClientSampleId :

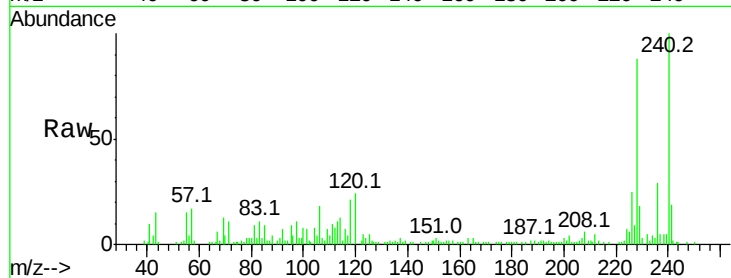
Tot Ion:228 Resp: 31574

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

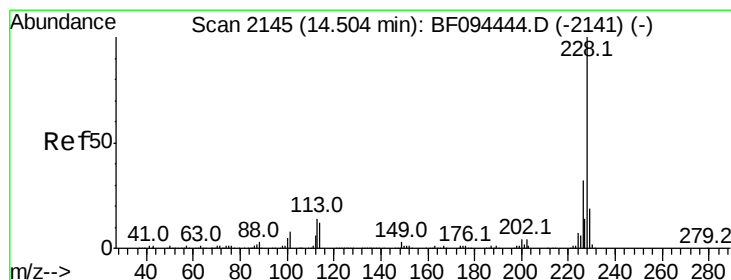
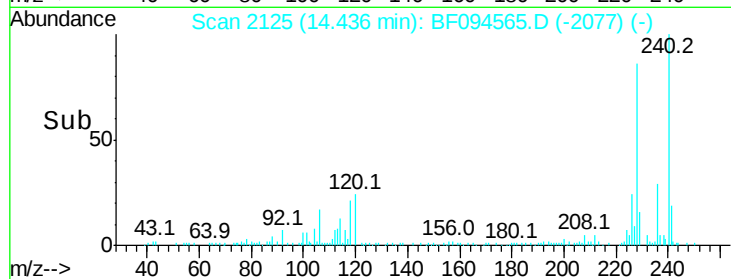
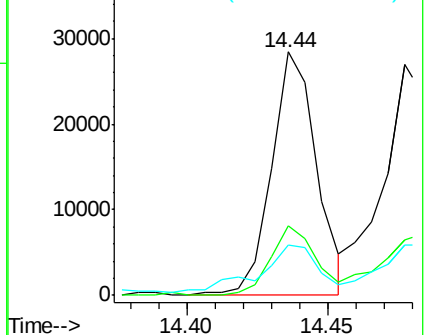
229 20.8 16.3 24.5



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: 2.24 ng

RT: 14.44 min Scan# 2125

Delta R.T. -0.07 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

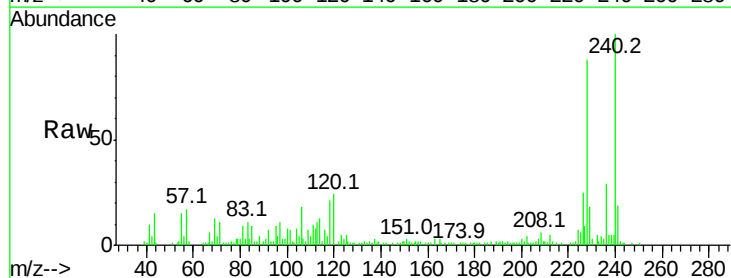
Tgt Ion:228 Resp: 31574

Ion Ratio Lower Upper

228 100

226 28.5 24.9 37.3

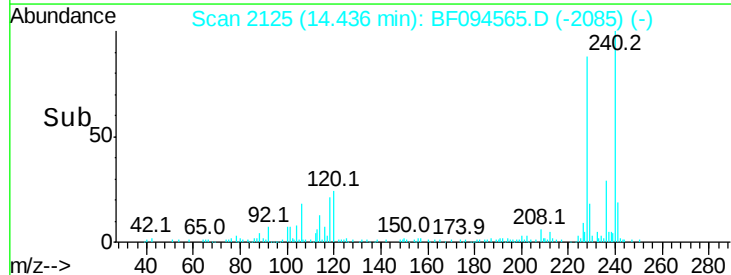
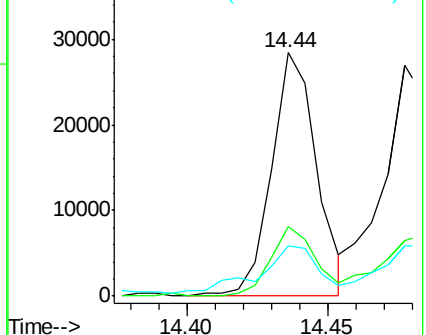
229 20.8 15.8 23.6

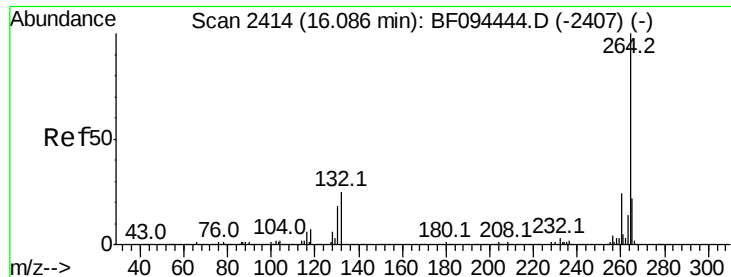


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

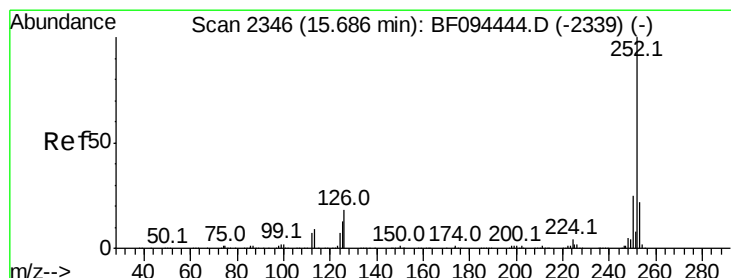
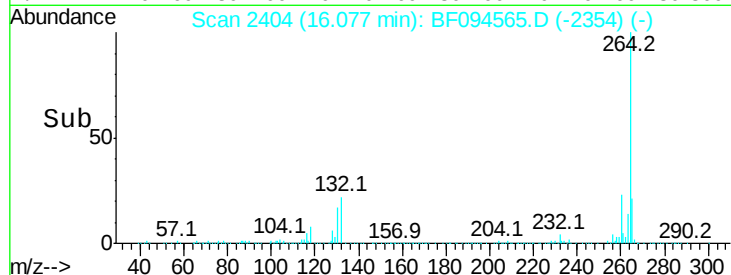
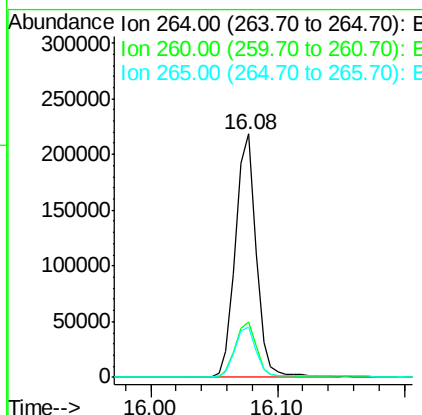
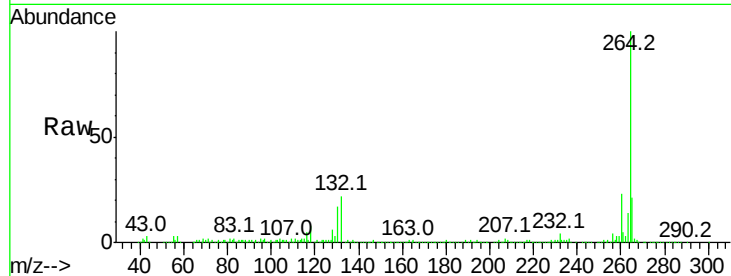




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 16.08 min Scan# 2404  
Delta R.T. -0.01 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

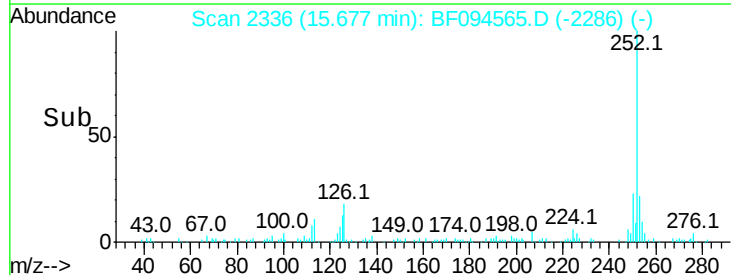
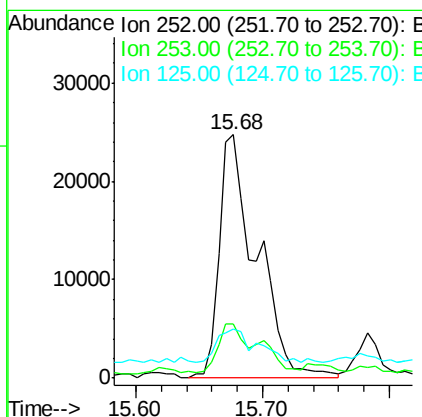
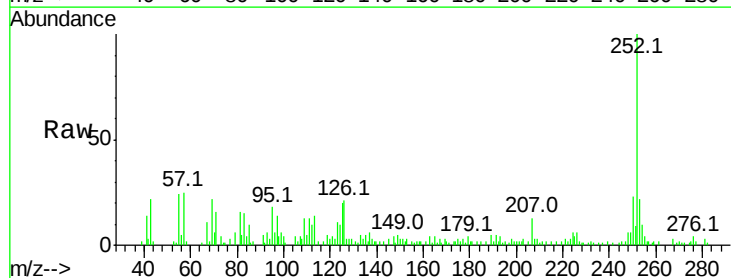
Instrument :  
BNA\_F  
ClientSampled :

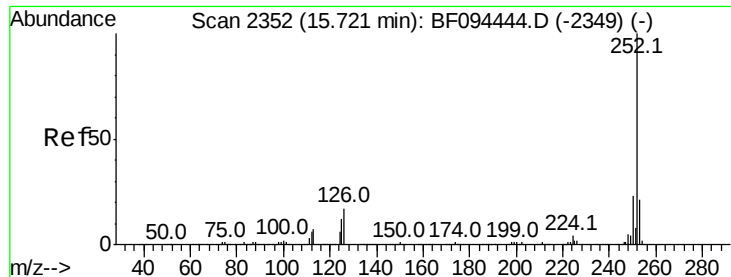
Tot Ion:264 Resp: 248160  
Ion Ratio Lower Upper  
264 100  
260 22.6 19.5 29.3  
265 20.9 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 3.35 ng  
RT: 15.68 min Scan# 2336  
Delta R.T. -0.01 min  
Lab File: BF094565.D  
Acq: 21 Apr 2017 16:27

Tgt Ion:252 Resp: 50824  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.1 27.1  
125 20.2 9.8 14.8#





#88

Benzo(k)fluoranthene

Concen: 3.54 ng

RT: 15.68 min Scan# 2336

Delta R.T. -0.04 min

Lab File: BF094565.D

Acq: 21 Apr 2017 16:27

Instrument :

BNA\_F

ClientSampleId :

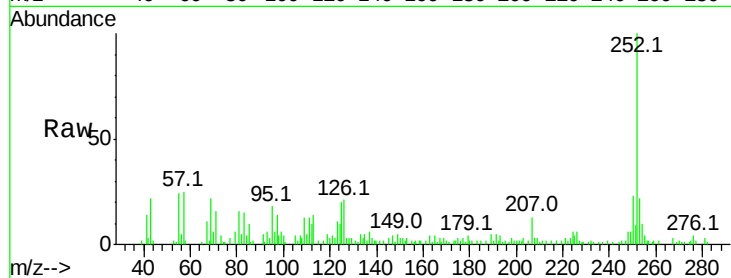
Tot Ion:252 Resp: 50824

Ion Ratio Lower Upper

252 100

253 22.3 18.4 27.6

125 20.2 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

