

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102115\  
 Data File : BF082427.D  
 Acq On : 22 Oct 2015 3:10  
 Operator : UM/IZ  
 Sample : G4116-05  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB3-03(0-2)

Quant Time: Oct 22 12:46:21 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 21 13:20:24 2015  
 Response via : Initial Calibration

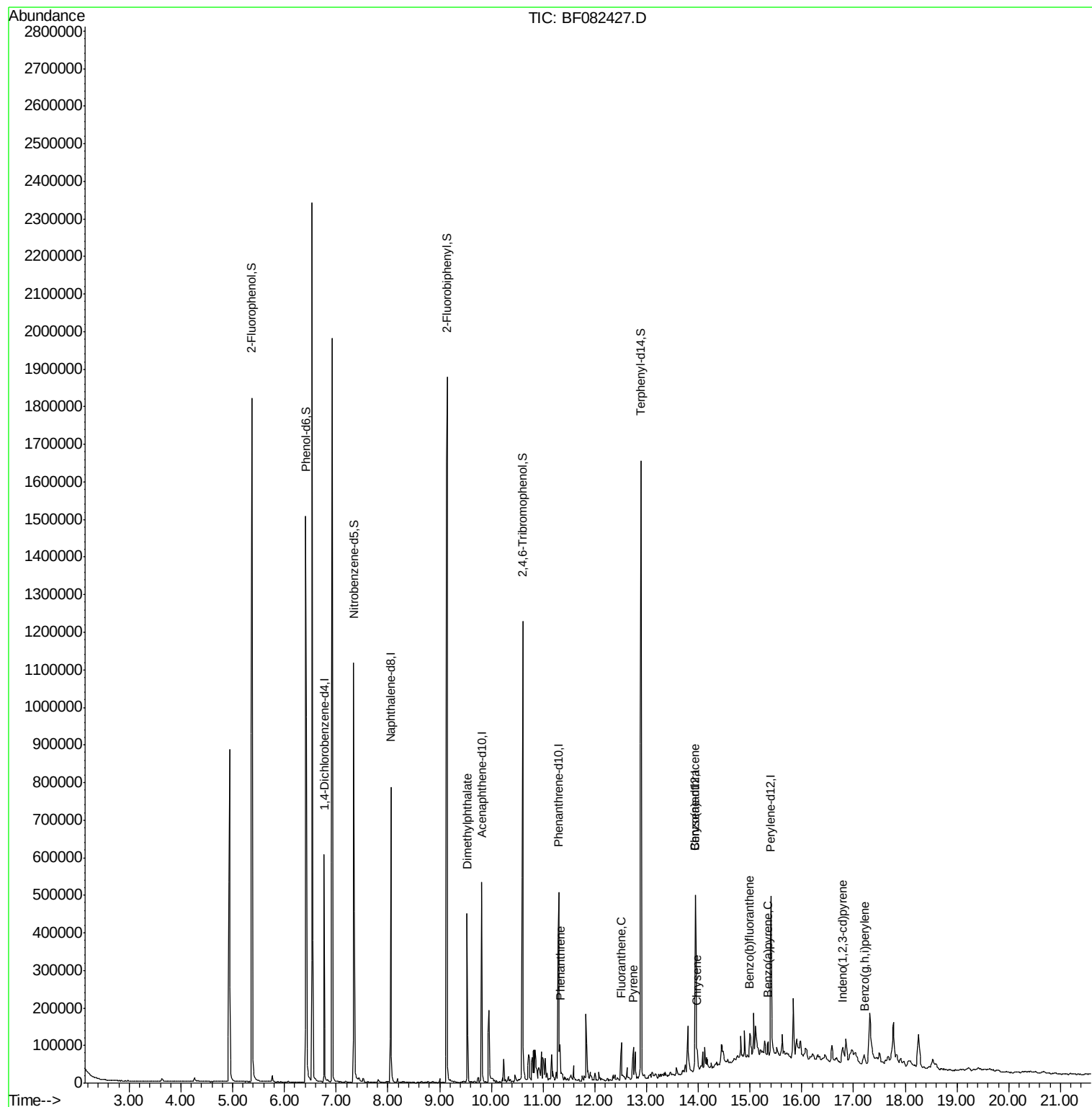
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 97004    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.06  | 136  | 356201   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.82  | 164  | 156367   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.30 | 188  | 269368   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.94 | 240  | 197304   | 20.00  | ng    | -0.07    |
| 86) Perylene-d12            | 15.41 | 264  | 203501   | 20.00  | ng    | -0.13    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.37  | 112  | 620182   | 129.03 | ng    | 0.01     |
| 7) Phenol-d6                | 6.41  | 99   | 721296   | 115.32 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.34  | 82   | 440033   | 82.96  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.61 | 330  | 151362   | 103.22 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.14  | 172  | 922902   | 97.88  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.89 | 244  | 635543   | 85.36  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.53  | 163  | 193339   | 17.56  | ng    | 99       |
| 70) Phenanthrene            | 11.33 | 178  | 36051    | 2.73   | ng    | 96       |
| 74) Fluoranthene            | 12.51 | 202  | 55241    | 3.90   | ng    | 97       |
| 77) Pyrene                  | 12.74 | 202  | 49107    | 4.19   | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.94 | 228  | 25069    | 2.44   | ng    | # 91     |
| 82) Chrysene                | 13.98 | 228  | 23739m   | 2.19   | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.79 | 276  | 18402    | 2.14   | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 15.00 | 252  | 37273m   | 3.01   | ng    |          |
| 89) Benzo(a)pyrene          | 15.35 | 252  | 21940    | 2.06   | ng    | # 95     |
| 91) Benzo(g,h,i)perylene    | 17.21 | 276  | 18680    | 2.21   | ng    | 99       |

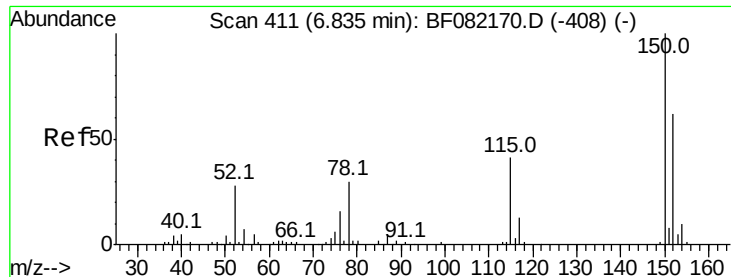
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102115\  
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Misc :  
ALS Vial : 26 Sample Multiplier: 1

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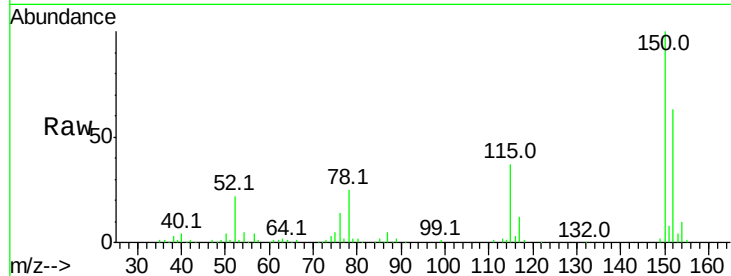


#1

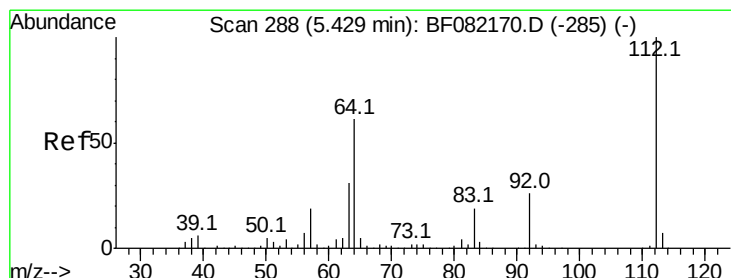
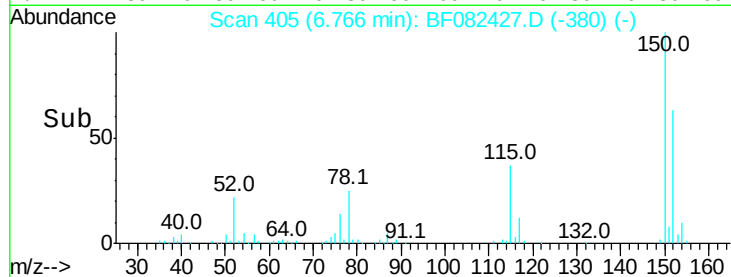
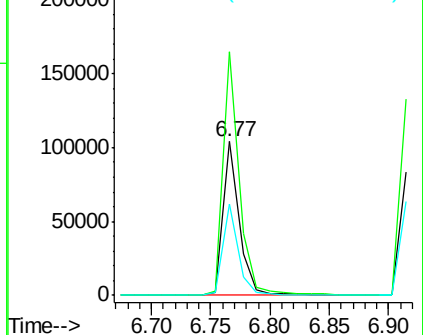
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.77 min Scan# 405  
Delta R.T. -0.01 min  
Lab File: BF082427.D  
Acq: 22 Oct 2015 3:10

Instrument :  
BNA\_F  
ClientSampleId :  
NB3-03(0-2)

Tot Ion:152 Resp: 97004  
Ion Ratio Lower Upper  
152 100  
150 158.7 129.0 193.4  
115 59.2 52.1 78.1



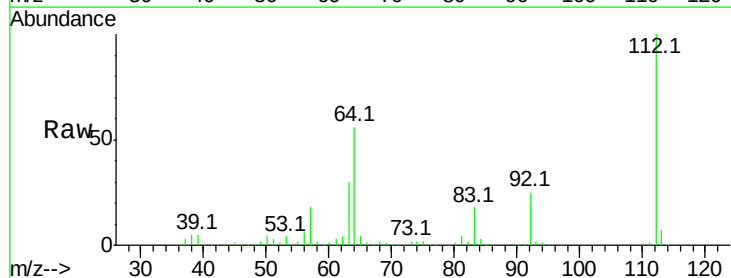
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



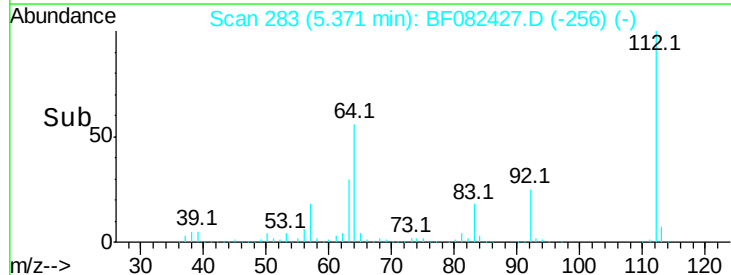
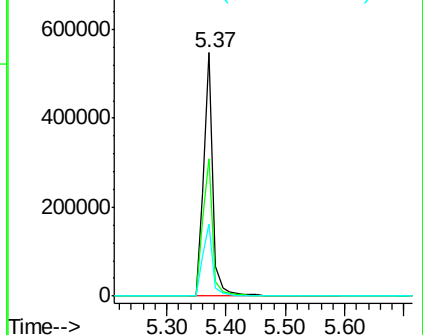
#5

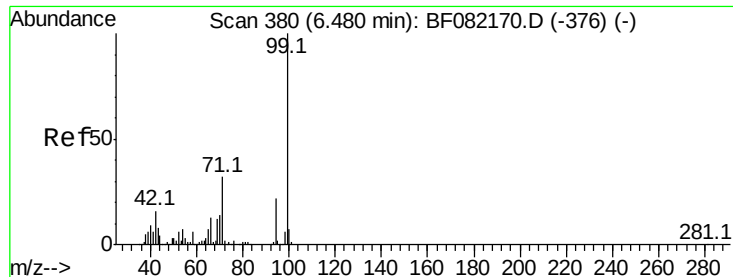
2-Fluorophenol  
Concen: 129.03 ng  
RT: 5.37 min Scan# 283  
Delta R.T. 0.01 min  
Lab File: BF082427.D  
Acq: 22 Oct 2015 3:10

Tgt Ion:112 Resp: 620182  
Ion Ratio Lower Upper  
112 100  
64 56.3 48.6 73.0  
63 29.8 25.1 37.7



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: 115.32 ng

RT: 6.41 min Scan# 374

Delta R.T. -0.01 min

Lab File: BF082427.D

Acq: 22 Oct 2015 3:10

Instrument :

BNA\_F

ClientSampleId :

NB3-03(0-2)

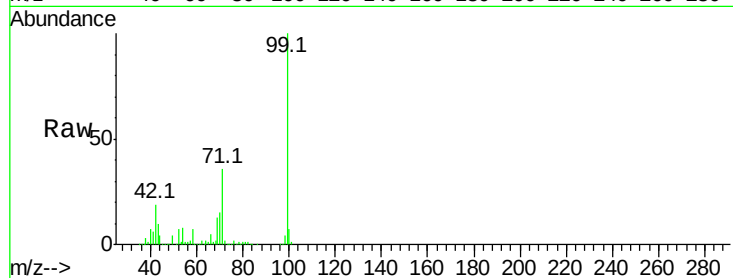
Tot Ion: 99 Resp: 721296

Ion Ratio Lower Upper

99 100

42 19.0 13.2 19.8

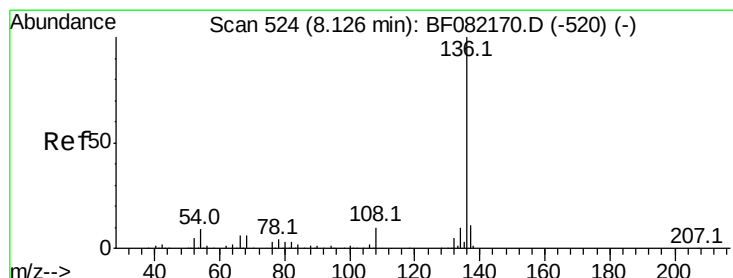
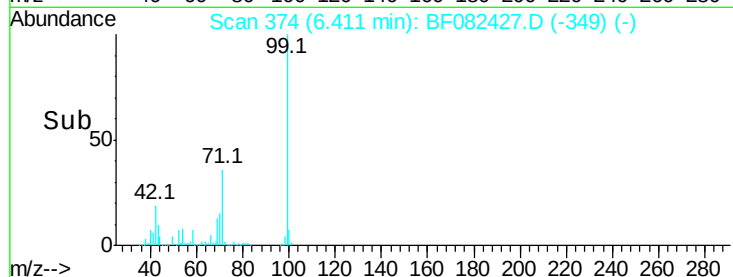
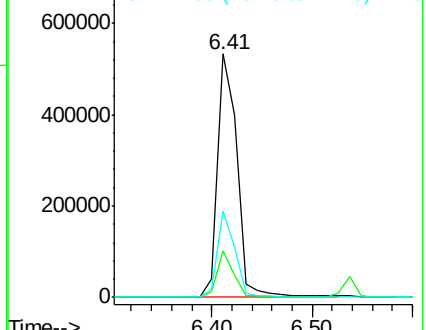
71 35.5 25.6 38.4



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: 20.00 ng

RT: 8.06 min Scan# 518

Delta R.T. -0.01 min

Lab File: BF082427.D

Acq: 22 Oct 2015 3:10

Tgt Ion: 136 Resp: 356201

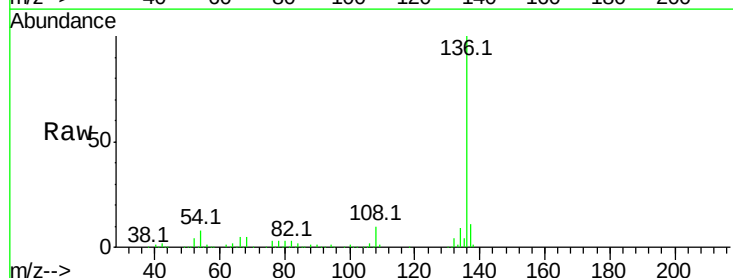
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.6

54 7.5 7.5 11.3#

68 4.8 4.6 7.0

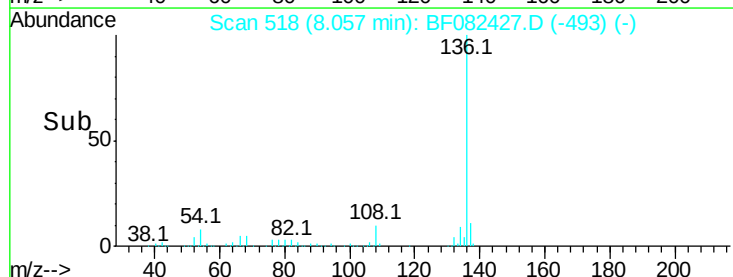
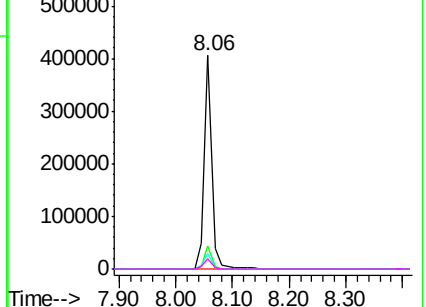


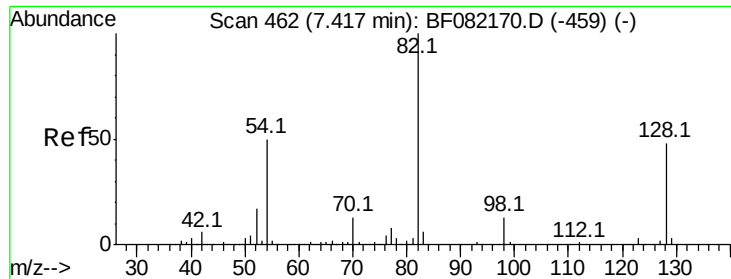
Abundance Ion 136.00 (135.70 to 136.70): E

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

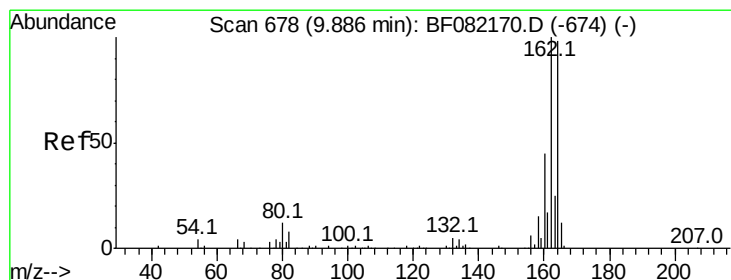
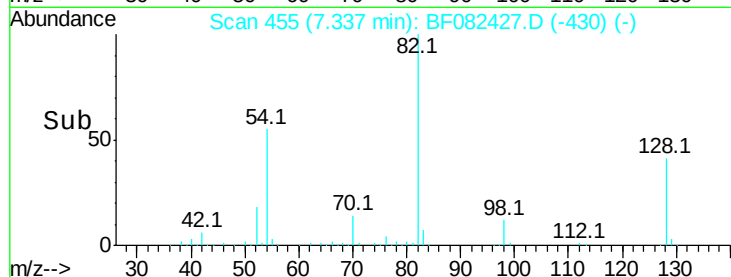
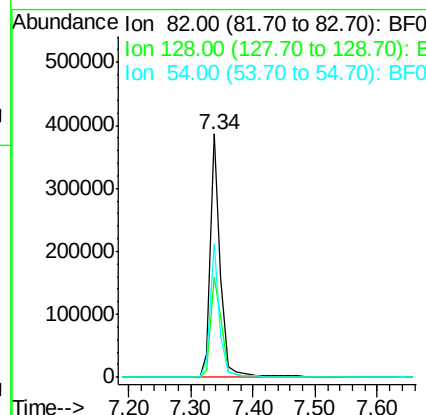
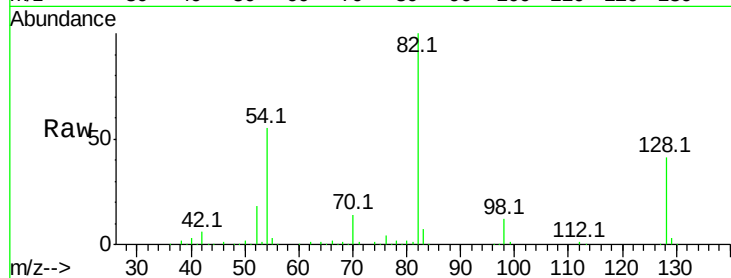




#23  
 Nitrobenzene-d5  
 Concen: 82.96 ng  
 RT: 7.34 min Scan# 455  
 Delta R.T. -0.01 min  
 Lab File: BF082427.D  
 Acq: 22 Oct 2015 3:10

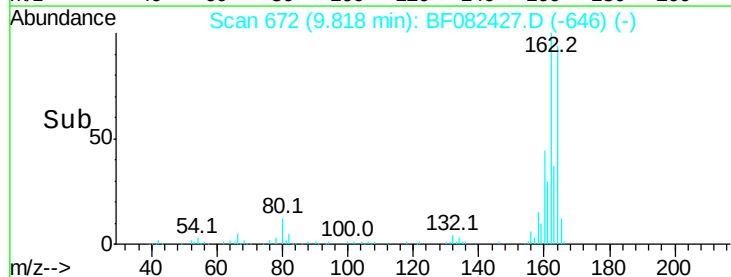
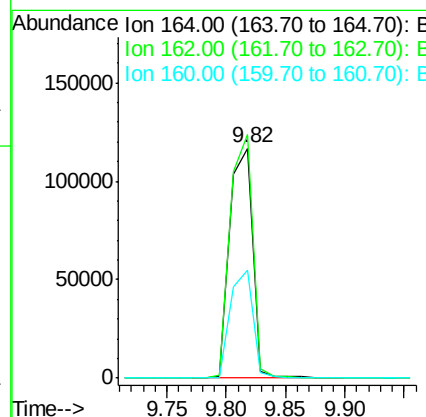
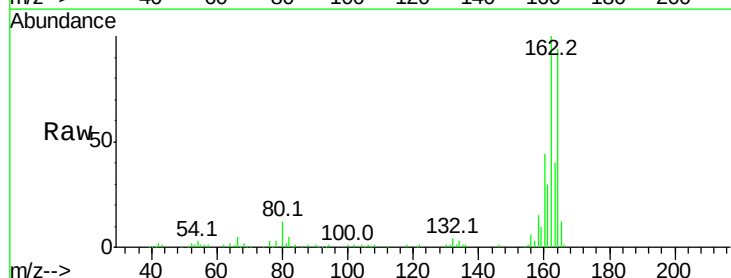
Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB3-03(0-2)

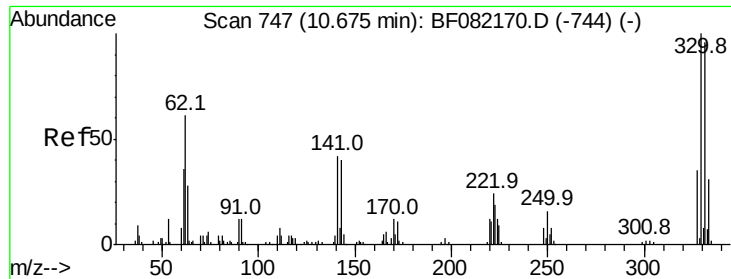
| Tot Ion | 82    | Resp  | 440033 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 40.9  | 38.7  | 58.1   |
| 54      | 55.1  | 40.1  | 60.1   |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.82 min Scan# 672  
 Delta R.T. -0.00 min  
 Lab File: BF082427.D  
 Acq: 22 Oct 2015 3:10

| Tgt Ion | 164   | Resp  | 156367 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 162     | 105.8 | 81.6  | 122.4  |
| 160     | 46.7  | 36.4  | 54.6   |

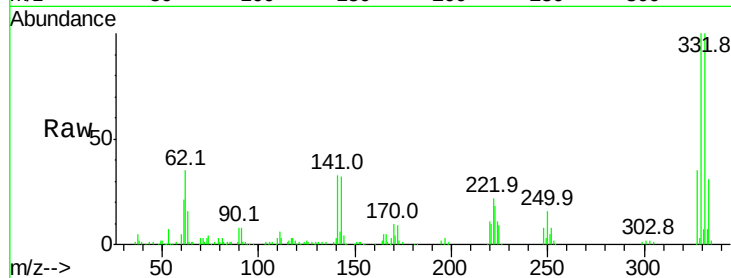




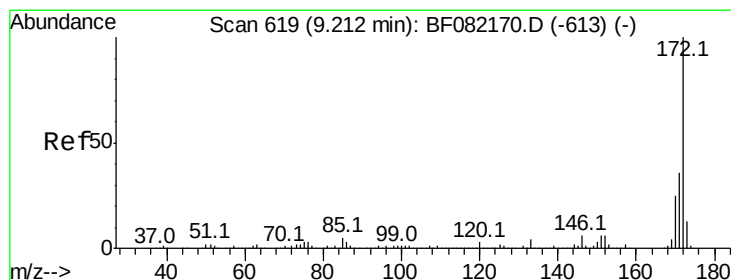
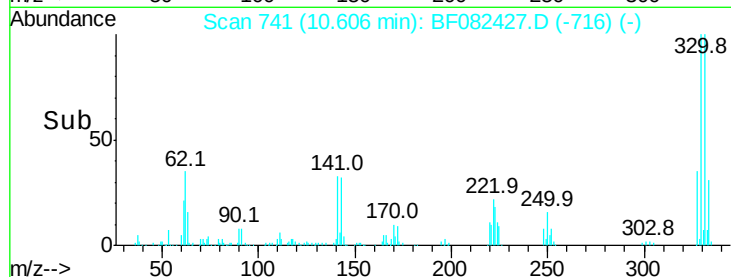
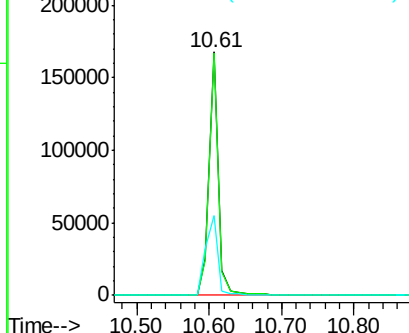
#41  
 2,4,6-Tribromophenol  
 Concen: 103.22 ng  
 RT: 10.61 min Scan# 741  
 Delta R.T. -0.01 min  
 Lab File: BF082427.D  
 Acq: 22 Oct 2015 3:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB3-03(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.6  | 77.1  | 115.7 |
| 141     | 42.7  | 29.8  | 44.8  |

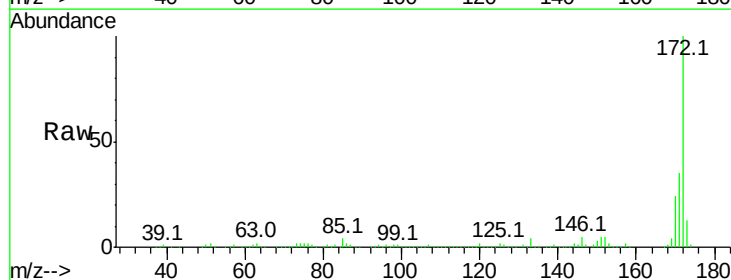


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

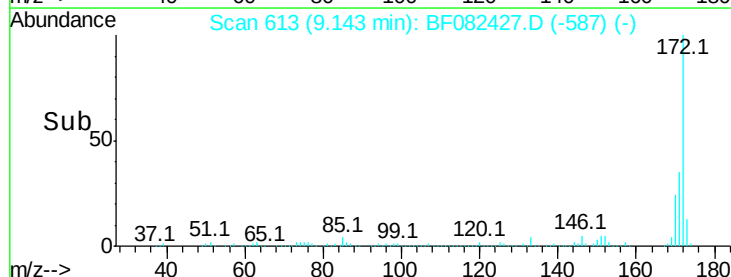
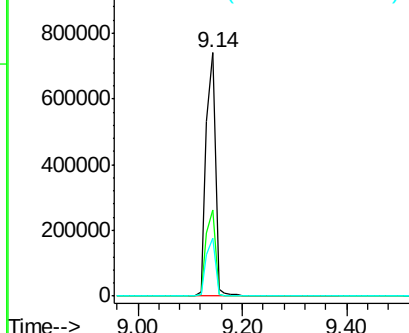


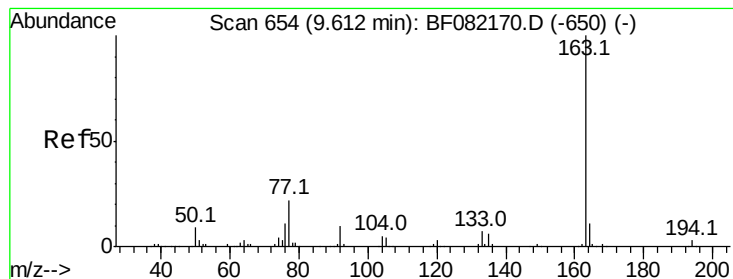
#44  
 2-Fluorobiphenyl  
 Concen: 97.88 ng  
 RT: 9.14 min Scan# 613  
 Delta R.T. -0.00 min  
 Lab File: BF082427.D  
 Acq: 22 Oct 2015 3:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 28.6  | 42.8  |
| 170     | 23.7  | 19.7  | 29.5  |



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: 17.56 ng

RT: 9.53 min Scan# 647

Delta R.T. -0.02 min

Lab File: BF082427.D

Acq: 22 Oct 2015 3:10

Instrument :

BNA\_F

ClientSampleId :

NB3-03(0-2)

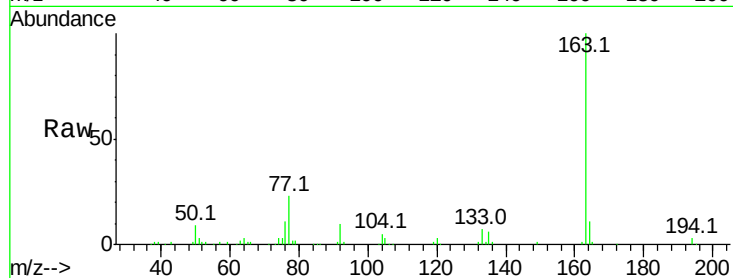
Tot Ion:163 Resp: 193339

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

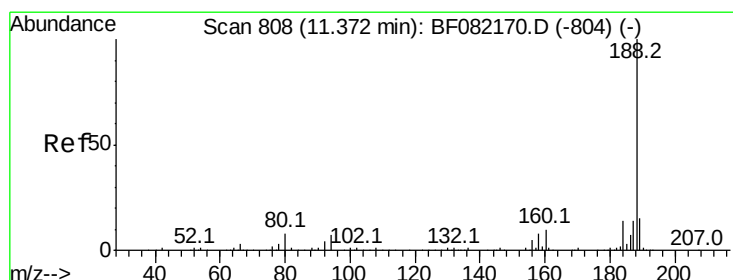
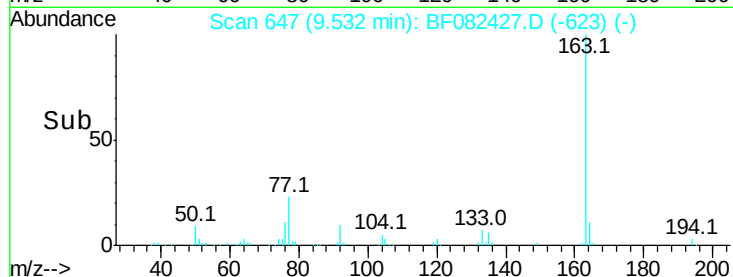
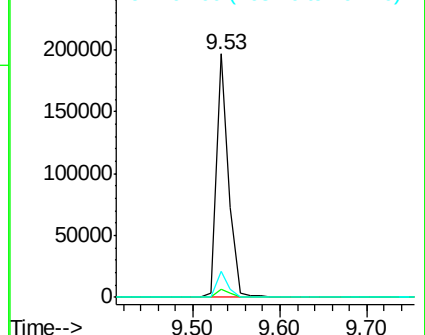
164 10.9 8.5 12.7



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.30 min Scan# 802

Delta R.T. -0.00 min

Lab File: BF082427.D

Acq: 22 Oct 2015 3:10

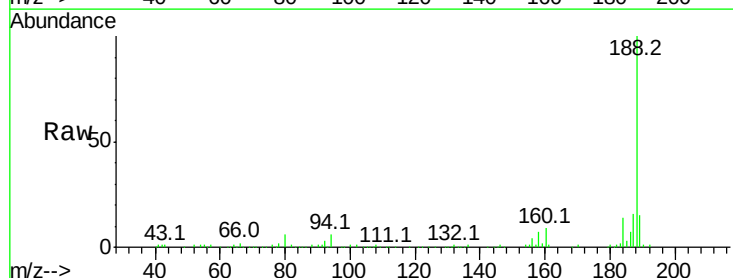
Tgt Ion:188 Resp: 269368

Ion Ratio Lower Upper

188 100

94 6.1 5.8 8.6

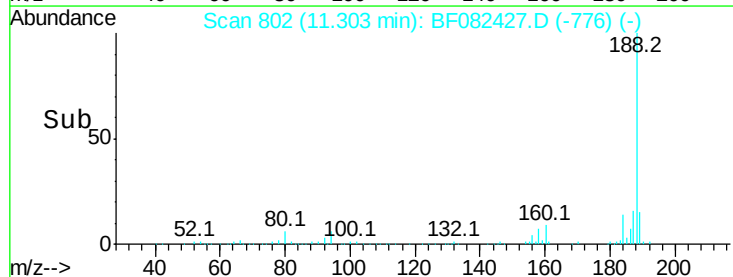
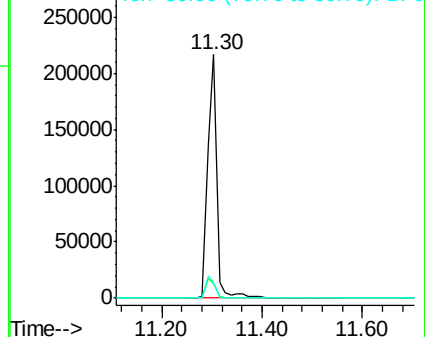
80 6.3 6.4 9.6#

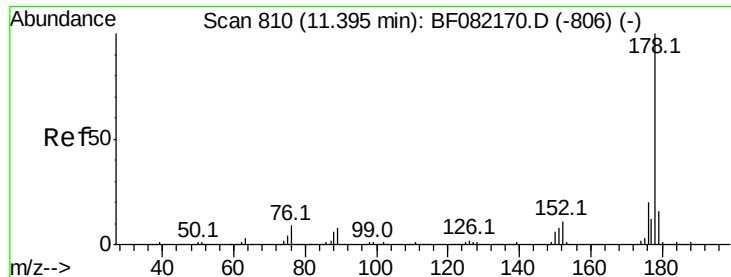


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

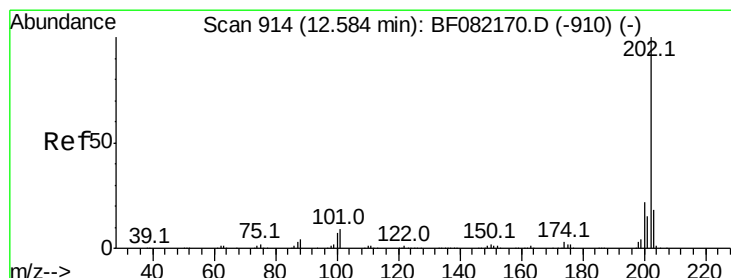
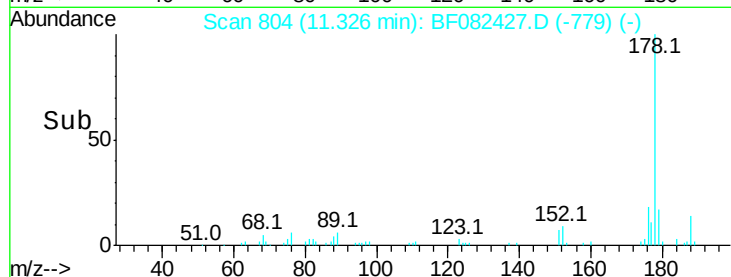
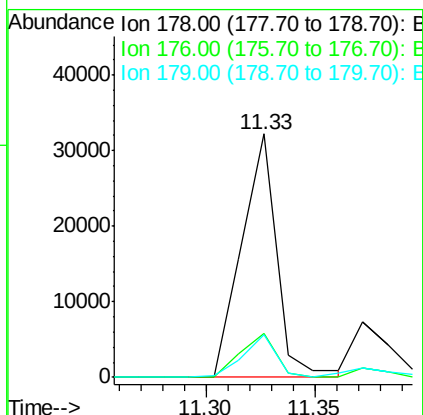
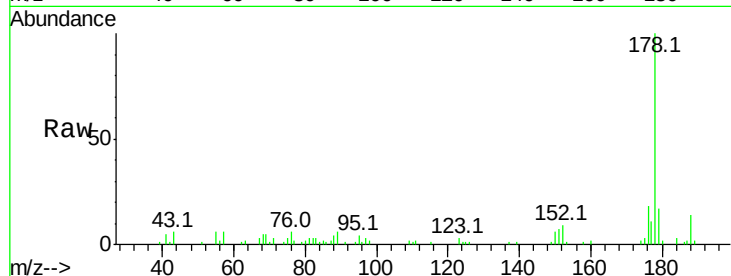




#70  
Phenanthrene  
Concen: 2.73 ng  
RT: 11.33 min Scan# 804  
Delta R.T. -0.01 min  
Lab File: BF082427.D  
Acq: 22 Oct 2015 3:10

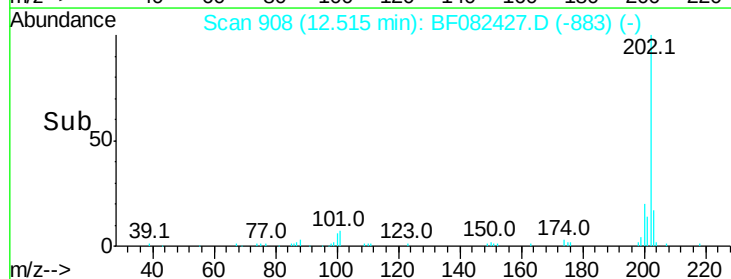
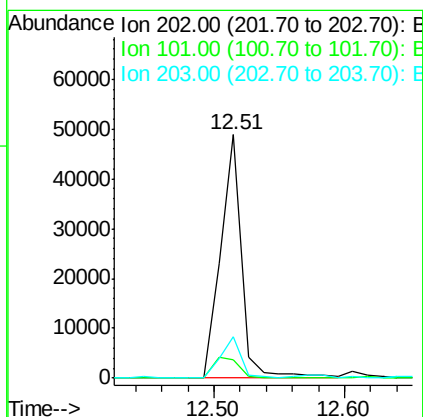
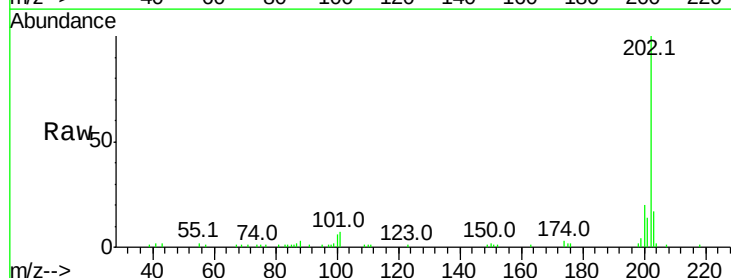
Instrument :  
BNA\_F  
ClientSampleId :  
NB3-03(0-2)

Tot Ion:178 Resp: 36051  
Ion Ratio Lower Upper  
178 100  
176 18.0 16.0 24.0  
179 17.3 12.6 19.0

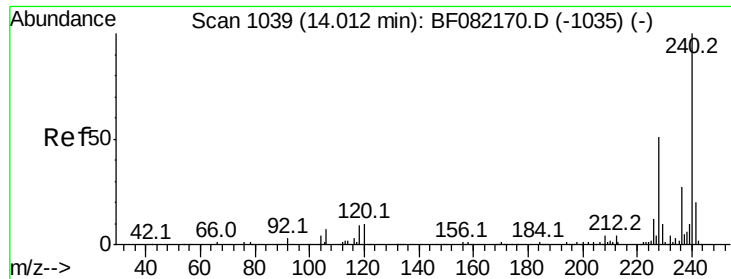


#74  
Fluoranthene  
Concen: 3.90 ng  
RT: 12.51 min Scan# 908  
Delta R.T. -0.01 min  
Lab File: BF082427.D  
Acq: 22 Oct 2015 3:10

Tgt Ion:202 Resp: 55241  
Ion Ratio Lower Upper  
202 100  
101 7.3 0.0 29.3  
203 17.0 0.0 37.8



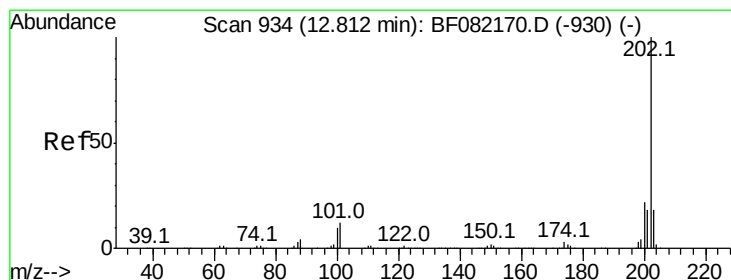
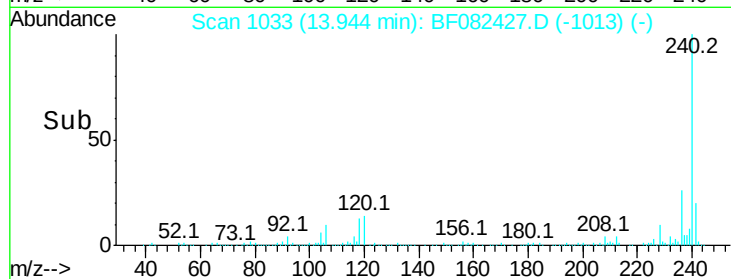
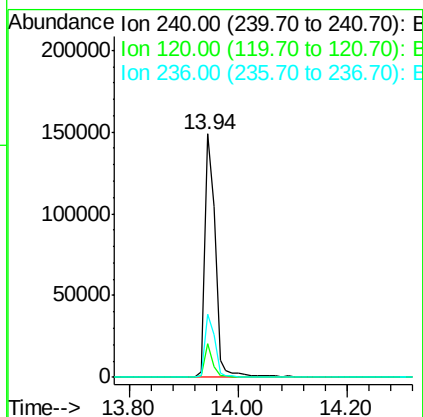
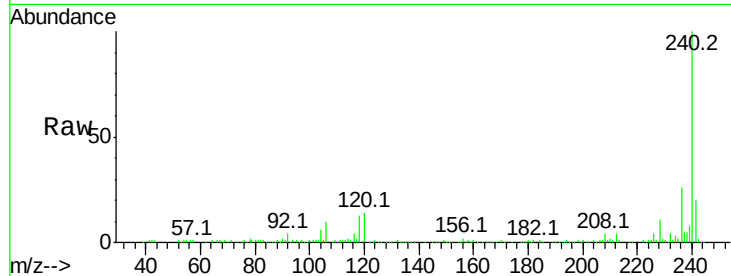




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.94 min Scan# 1033  
 Delta R.T. -0.07 min  
 Lab File: BF082427.D  
 Acq: 22 Oct 2015 3:10

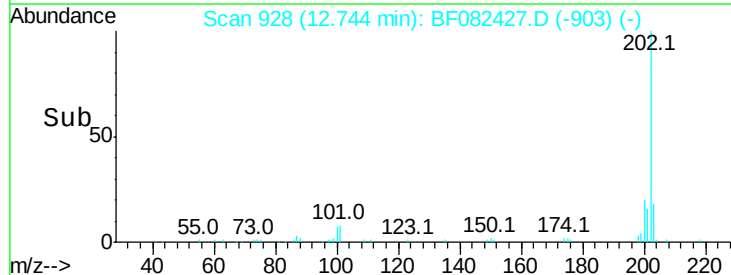
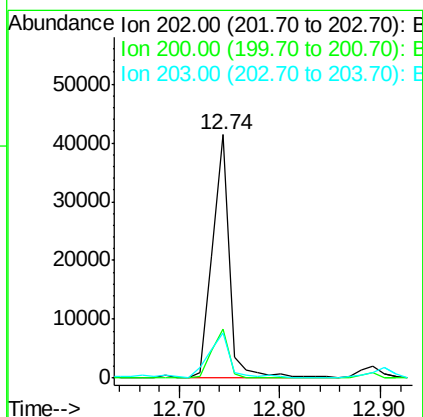
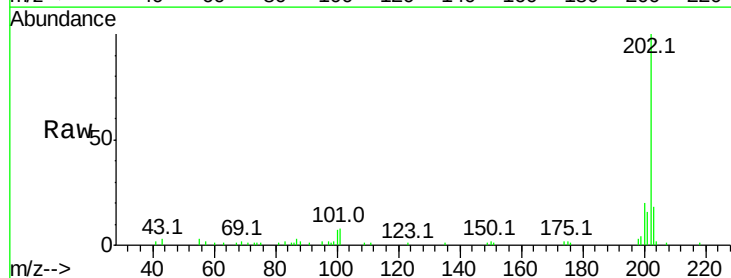
Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB3-03(0-2)

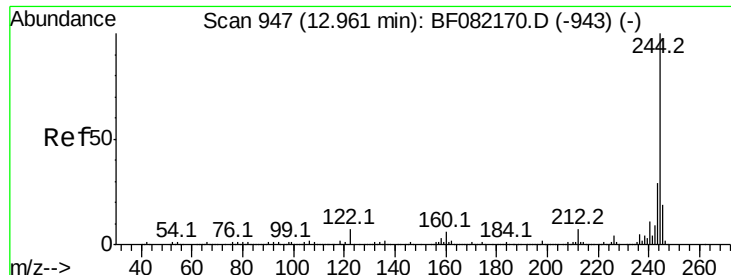
Tot Ion:240 Resp: 197304  
 Ion Ratio Lower Upper  
 240 100  
 120 13.9 8.1 12.1#  
 236 25.7 21.3 31.9



#77  
 Pyrene  
 Concen: 4.19 ng  
 RT: 12.74 min Scan# 928  
 Delta R.T. -0.01 min  
 Lab File: BF082427.D  
 Acq: 22 Oct 2015 3:10

Tgt Ion:202 Resp: 49107  
 Ion Ratio Lower Upper  
 202 100  
 200 20.4 17.9 26.9  
 203 18.3 14.5 21.7

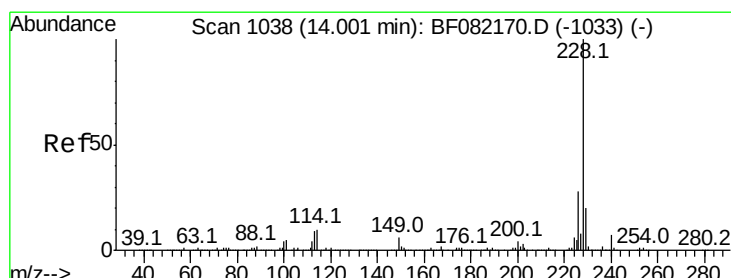
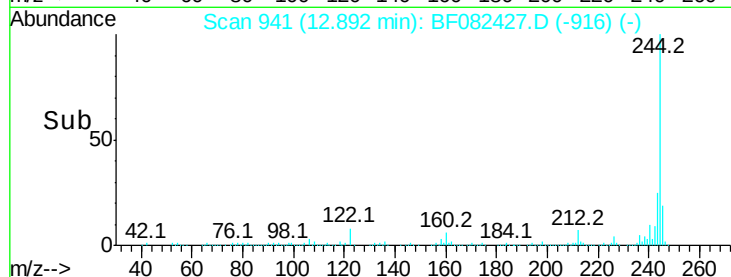
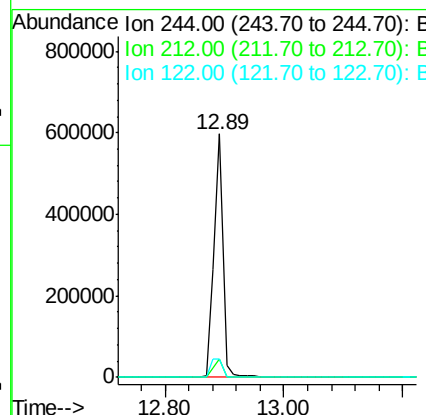
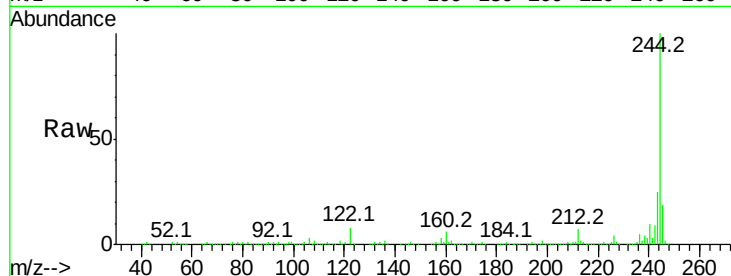




#78  
 Terphenyl-d14  
 Concen: 85.36 ng  
 RT: 12.89 min Scan# 941  
 Delta R.T. -0.01 min  
 Lab File: BF082427.D  
 Acq: 22 Oct 2015 3:10

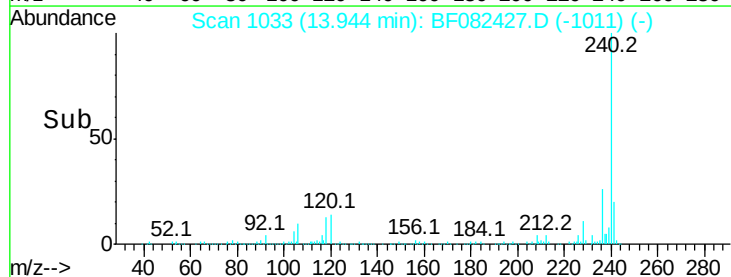
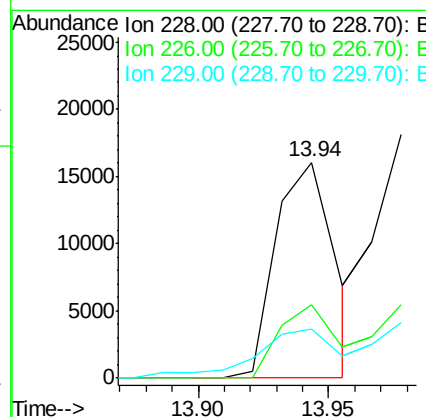
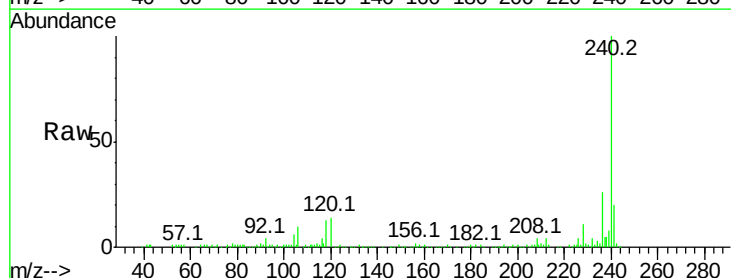
Instrument :  
 BNA\_F  
 ClientSampleId :  
 NB3-03(0-2)

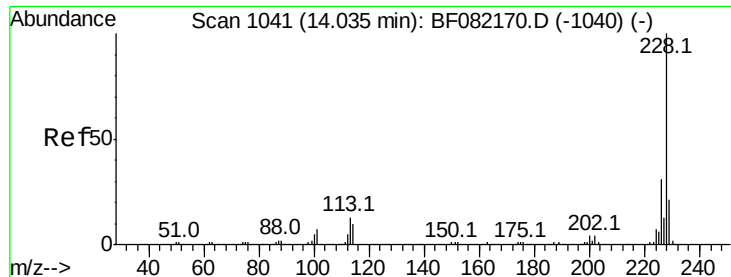
Tot Ion:244 Resp: 635543  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 5.8 8.6  
 122 7.7 5.9 8.9



#80  
 Benzo(a)anthracene  
 Concen: 2.44 ng  
 RT: 13.94 min Scan# 1033  
 Delta R.T. -0.05 min  
 Lab File: BF082427.D  
 Acq: 22 Oct 2015 3:10

Tgt Ion:228 Resp: 25069  
 Ion Ratio Lower Upper  
 228 100  
 226 33.7 22.3 33.5#  
 229 23.0 16.2 24.2





#82

Chrysene

Concen: 2.19 ng/mL

RT: 13.98 min Scan# 1036

Delta R.T. -0.06 min

Lab File: BF082427.D

Acq: 22 Oct 2015 3:10

Instrument:

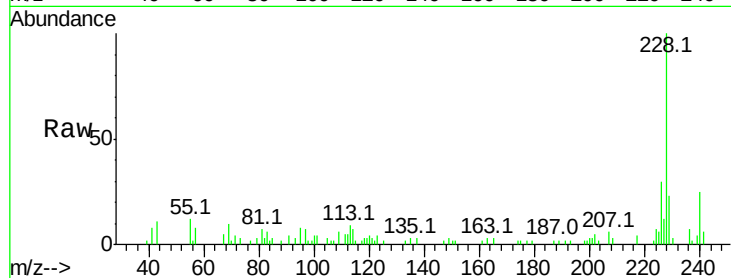
BNA\_F

ClientSampleID:

NB3-03(0-2)

Tot Ion: 228 Resp: 23739

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.1  | 24.4  | 36.6  |
| 229 | 23.0  | 16.3  | 24.5  |

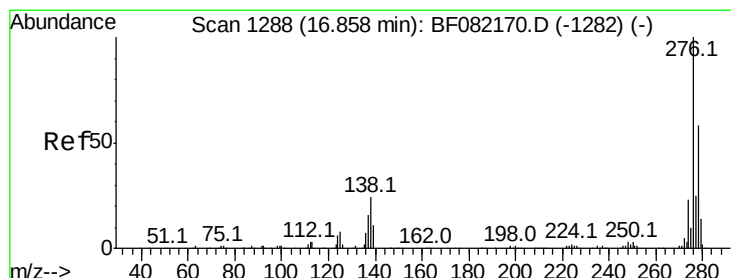
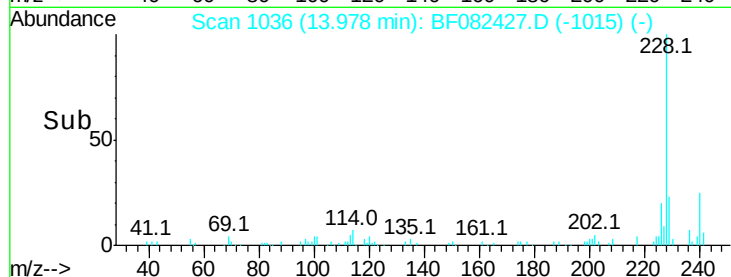
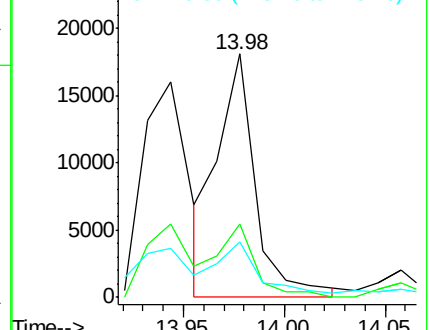


Abundance

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



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.14 ng/mL

RT: 16.79 min Scan# 1282

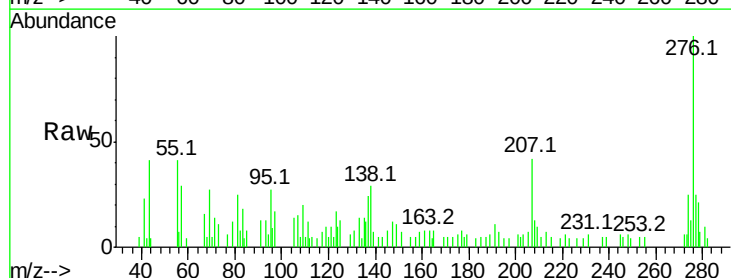
Delta R.T. -0.16 min

Lab File: BF082427.D

Acq: 22 Oct 2015 3:10

Tgt Ion: 276 Resp: 18402

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 22.5  | 19.7  | 29.5  |
| 277 | 26.2  | 20.1  | 30.1  |

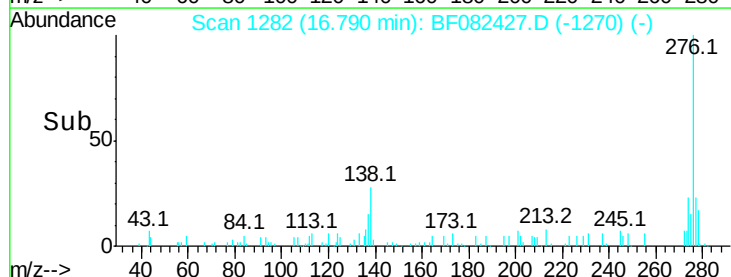
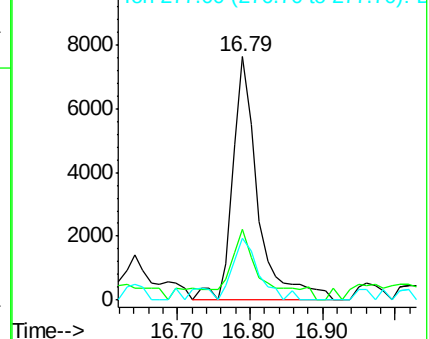


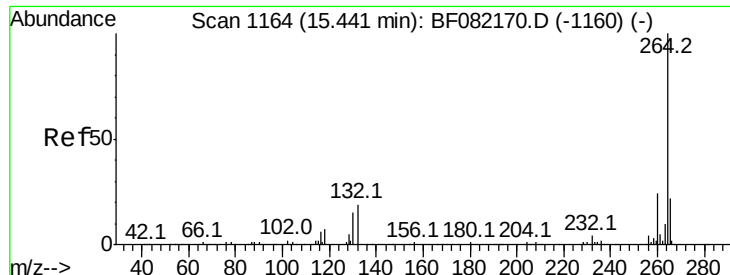
Abundance

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

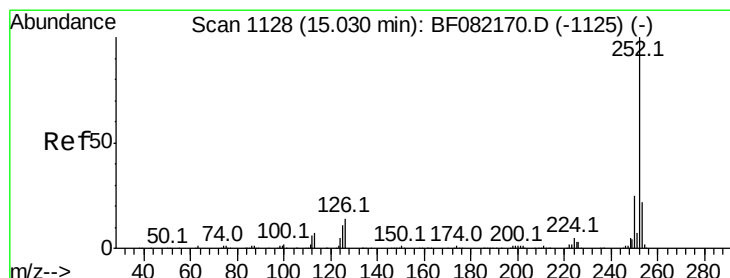
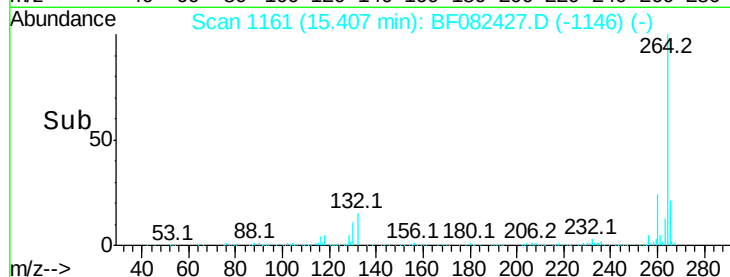
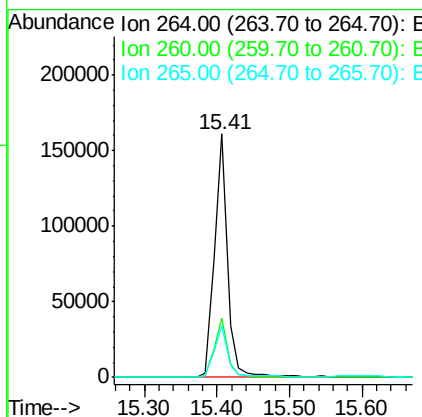
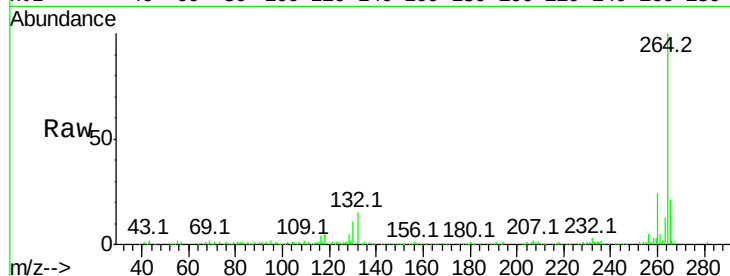




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.41 min Scan# 1161  
Delta R.T. -0.13 min  
Lab File: BF082427.D  
Acq: 22 Oct 2015 3:10

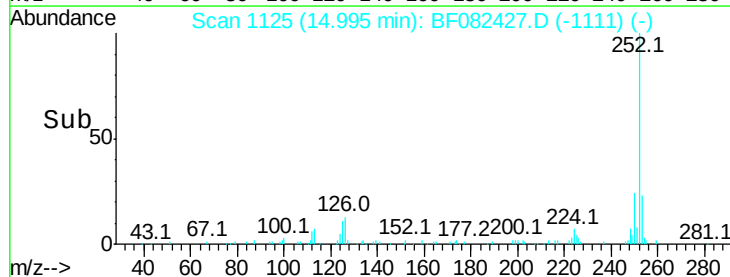
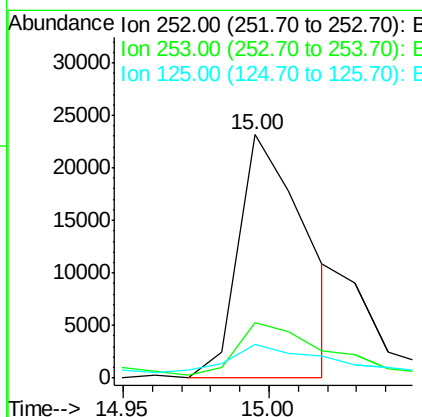
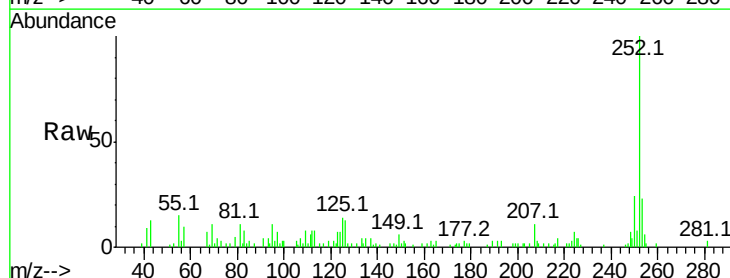
Instrument :  
BNA\_F  
ClientSampleId :  
NB3-03(0-2)

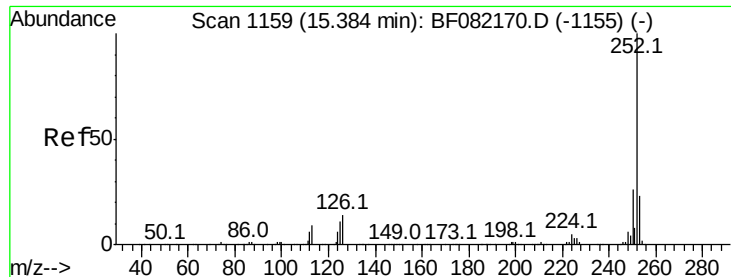
Tot Ion:264 Resp: 203501  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.0 28.6  
265 21.5 17.3 25.9



#87  
Benzo(b)fluoranthene  
Concen: 3.01 ng m  
RT: 15.00 min Scan# 1125  
Delta R.T. -0.14 min  
Lab File: BF082427.D  
Acq: 22 Oct 2015 3:10

Tgt Ion:252 Resp: 37273  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.0 27.0  
125 13.9 8.6 12.8#





#89

Benzo(a)pyrene

Concen: 2.06 ng

RT: 15.35 min Scan# 1156

Delta R.T. -0.13 min

Lab File: BF082427.D

Acq: 22 Oct 2015 3:10

Instrument :

BNA\_F

ClientSampleId :

NB3-03(0-2)

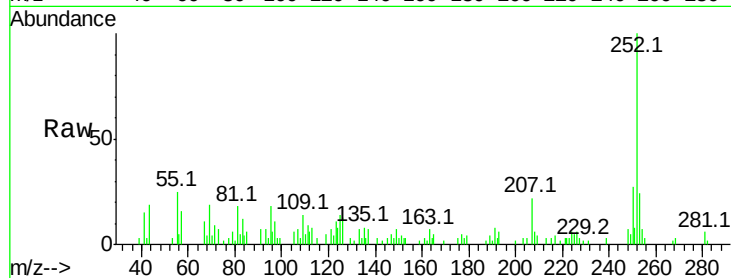
Tot Ion:252 Resp: 21940

Ion Ratio Lower Upper

252 100

253 24.3 18.2 27.2

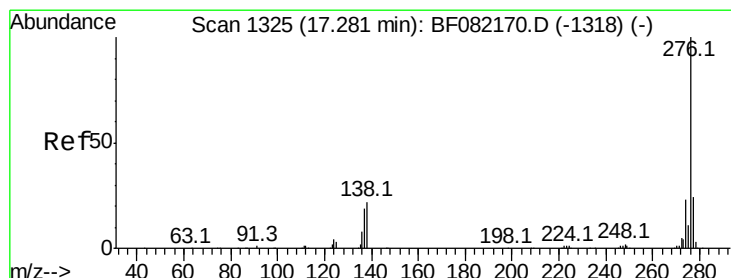
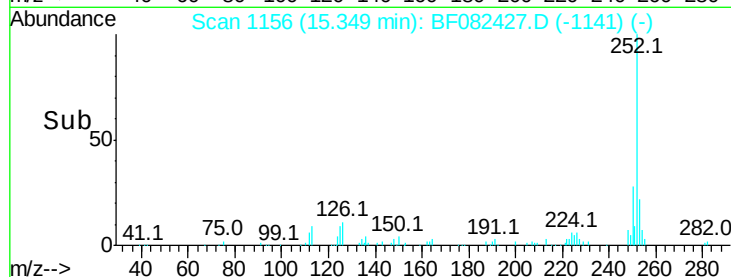
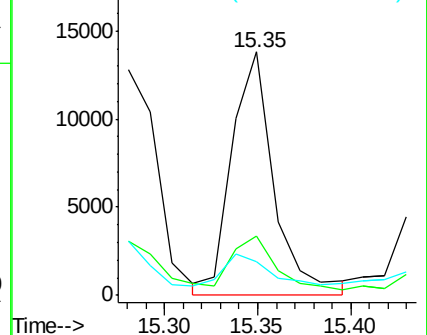
125 13.9 8.9 13.3#



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: 2.21 ng

RT: 17.21 min Scan# 1319

Delta R.T. -0.15 min

Lab File: BF082427.D

Acq: 22 Oct 2015 3:10

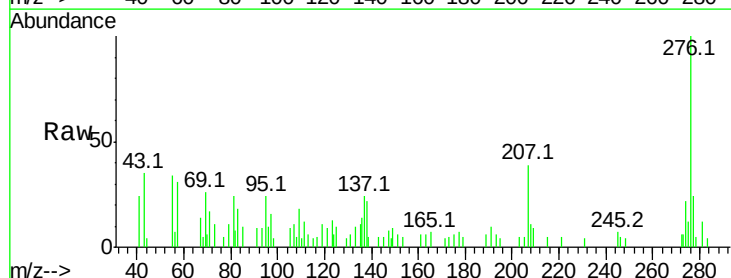
Tgt Ion:276 Resp: 18680

Ion Ratio Lower Upper

276 100

277 24.4 18.8 28.2

138 21.8 17.4 26.2



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

