

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081117\  
 Data File : BF097618.D  
 Acq On : 12 Aug 2017 3:53  
 Operator : SJ/JU  
 Sample : I4727-01 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-PS-01-012

Quant Time: Aug 12 04:22:49 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 11 15:55:57 2017  
 Response via : Initial Calibration

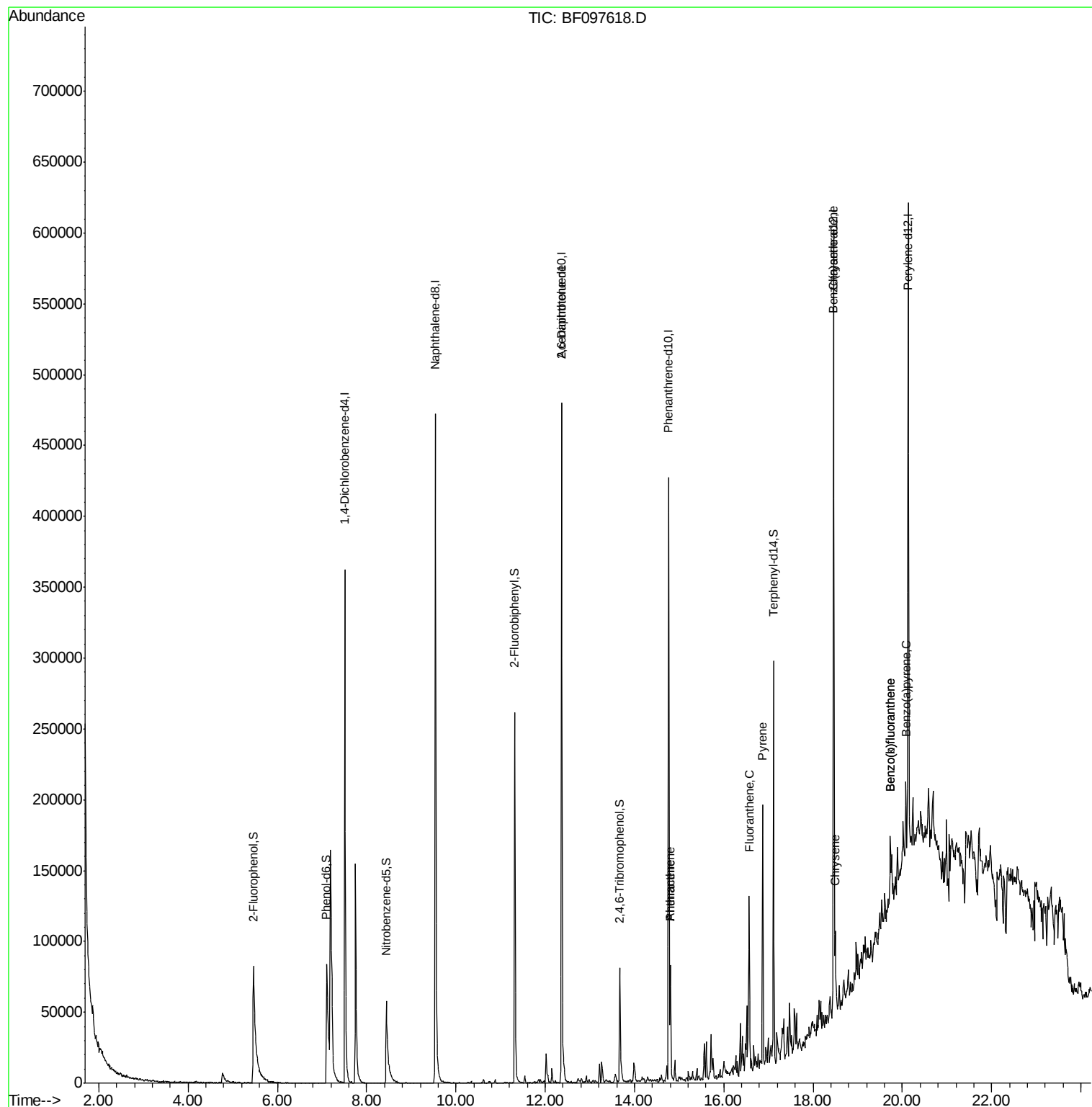
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|-------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.51  | 152  | 82992    | 20.00 | ng    | 0.00           |
| 21) Naphthalene-d8          | 9.54  | 136  | 347200   | 20.00 | ng    | 0.00           |
| 38) Acenaphthene-d10        | 12.36 | 164  | 142618   | 20.00 | ng    | 0.00           |
| 63) Phenanthrene-d10        | 14.76 | 188  | 219933   | 20.00 | ng    | 0.00           |
| 75) Chrysene-d12            | 18.46 | 240  | 206606   | 20.00 | ng    | 0.00           |
| 86) Perylene-d12            | 20.13 | 264  | 191270   | 20.00 | ng    | 0.00           |
| System Monitoring Compounds |       |      |          |       |       |                |
| 5) 2-Fluorophenol           | 5.46  | 112  | 92814    | 17.78 | ng    | 0.06           |
| 7) Phenol-d6                | 7.10  | 99   | 109371   | 16.89 | ng    | 0.05           |
| 23) Nitrobenzene-d5         | 8.43  | 82   | 55790    | 10.08 | ng    | 0.01           |
| 41) 2,4,6-Tribromophenol    | 13.67 | 330  | 16080    | 14.83 | ng    | 0.01           |
| 44) 2-Fluorobiphenyl        | 11.32 | 172  | 127346   | 13.48 | ng    | 0.00           |
| 78) Terphenyl-d14           | 17.12 | 244  | 93078    | 9.32  | ng    | 0.00           |
| Target Compounds            |       |      |          |       |       |                |
| 50) 2,6-Dinitrotoluene      | 12.36 | 165  | 16978    | 7.48  | ng    | Qvalue<br># 31 |
| 70) Phenanthrene            | 14.80 | 178  | 49061    | 3.87  | ng    | 100            |
| 71) Anthracene              | 14.80 | 178  | 49061    | 3.79  | ng    | 99             |
| 74) Fluoranthene            | 16.57 | 202  | 62067    | 5.42  | ng    | 98             |
| 77) Pyrene                  | 16.87 | 202  | 88308    | 5.17  | ng    | 97             |
| 80) Benzo(a)anthracene      | 18.45 | 228  | 26185    | 2.17  | ng    | 95             |
| 82) Chrysene                | 18.50 | 228  | 28274    | 2.36  | ng    | 96             |
| 87) Benzo(b)fluoranthene    | 19.73 | 252  | 34797    | 3.03  | ng    | # 88           |
| 88) Benzo(k)fluoranthene    | 19.73 | 252  | 34797    | 3.01  | ng    | # 92           |
| 89) Benzo(a)pyrene          | 20.08 | 252  | 22491    | 2.13  | ng    | # 95           |

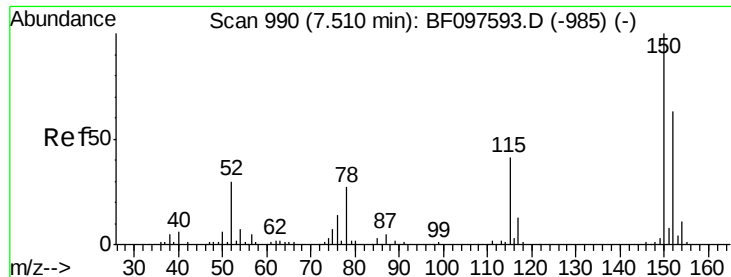
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.51 min Scan# 990

Delta R.T. -0.00 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

Instrument :

BNA\_F

ClientSampleId :

FK-PS-01-012

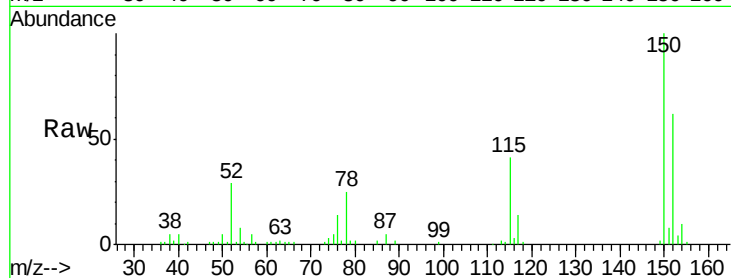
Tot Ion:152 Resp: 82992

Ion Ratio Lower Upper

152 100

150 161.2 126.2 189.2

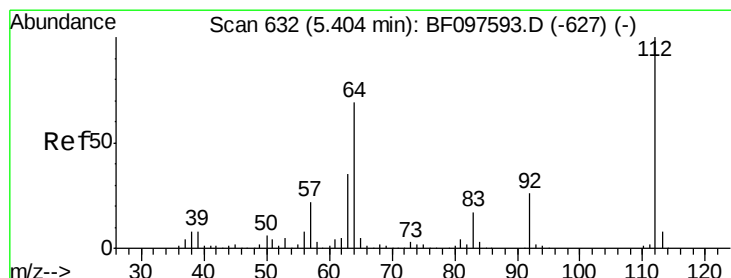
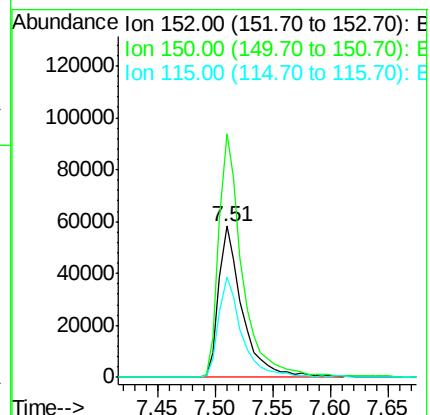
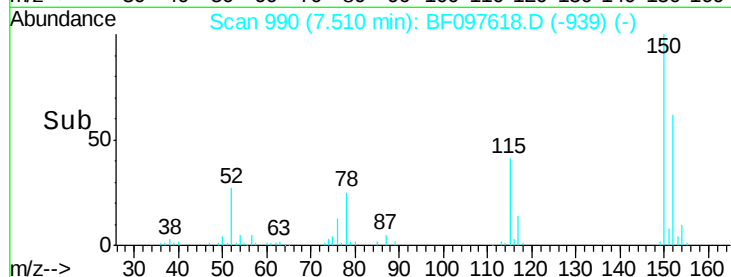
115 66.7 52.2 78.2



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: 17.78 ng

RT: 5.46 min Scan# 642

Delta R.T. 0.06 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

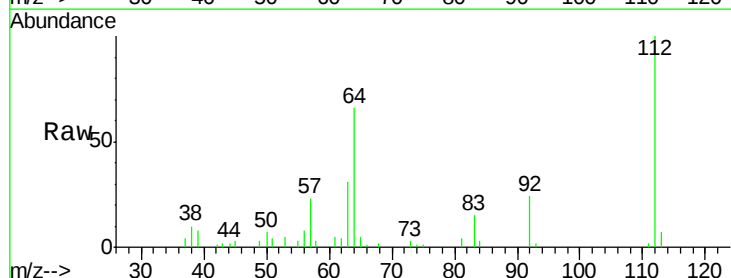
Tgt Ion:112 Resp: 92814

Ion Ratio Lower Upper

112 100

64 65.8 46.0 69.0

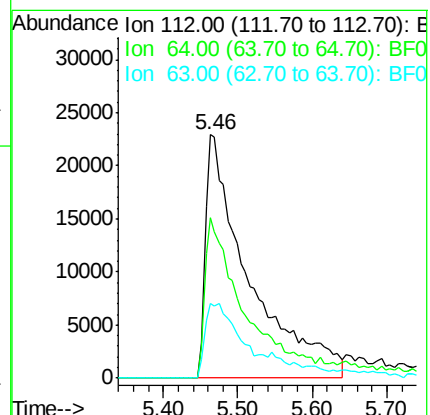
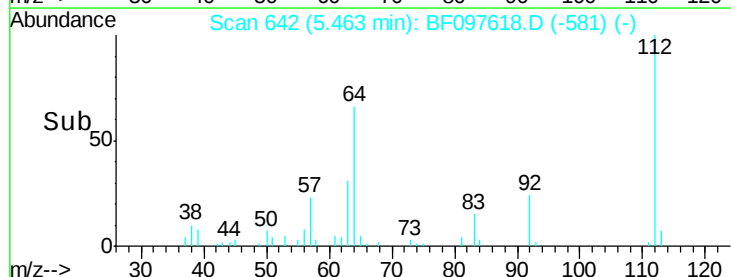
63 30.5 23.4 35.0

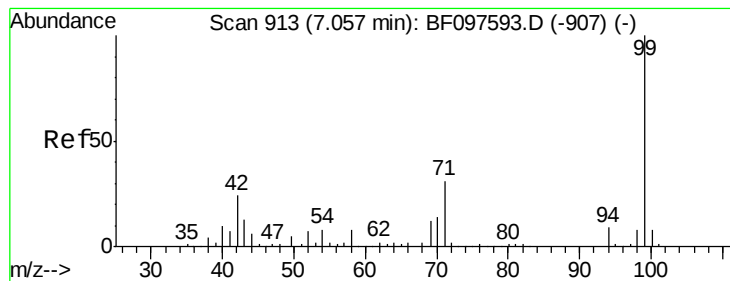


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 16.89 ng

RT: 7.10 min Scan# 921

Delta R.T. 0.05 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

Instrument :

BNA\_F

ClientSampleId :

FK-PS-01-012

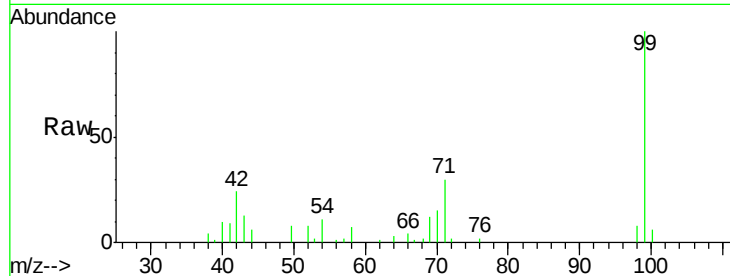
Tot Ion: 99 Resp: 109371

Ion Ratio Lower Upper

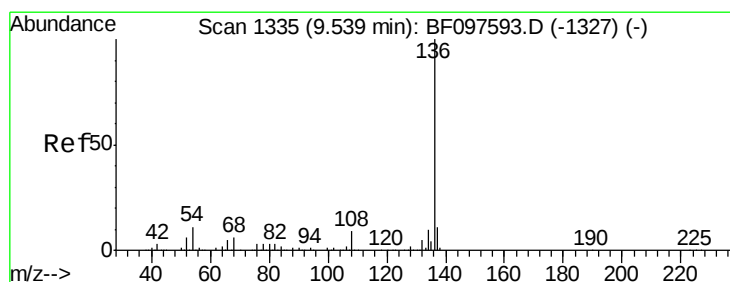
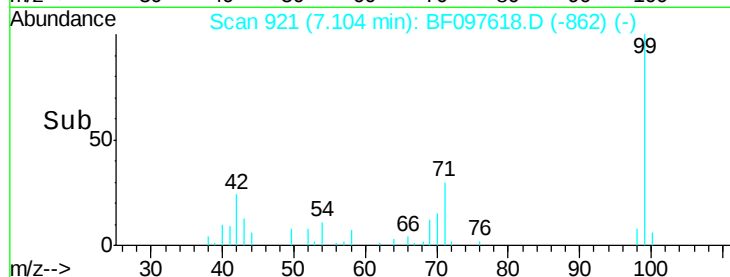
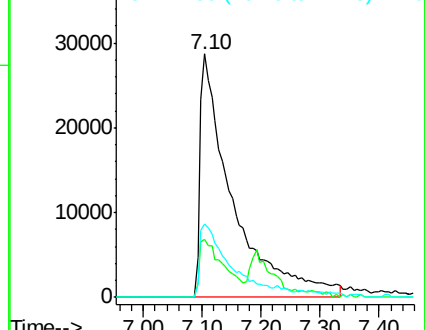
99 100

42 23.9 13.5 20.3#

71 30.0 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.54 min Scan# 1335

Delta R.T. -0.00 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

Tgt Ion: 136 Resp: 347200

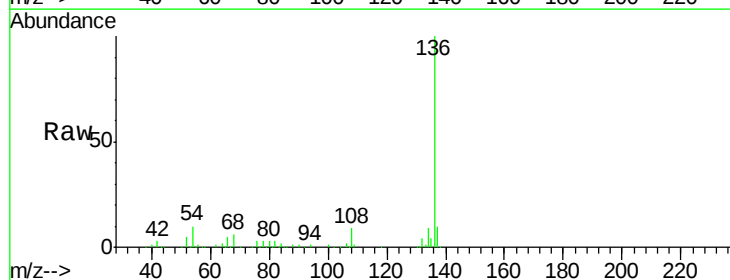
Ion Ratio Lower Upper

136 100

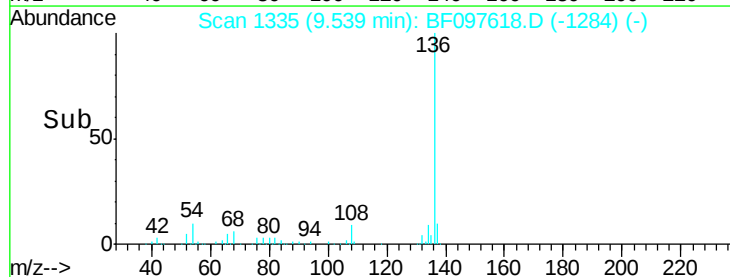
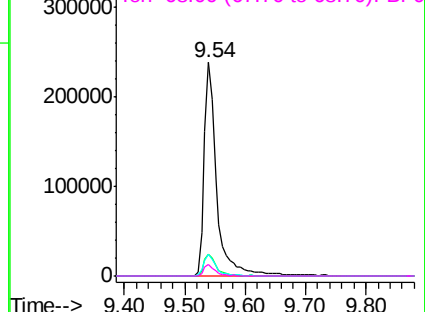
137 10.2 8.5 12.7

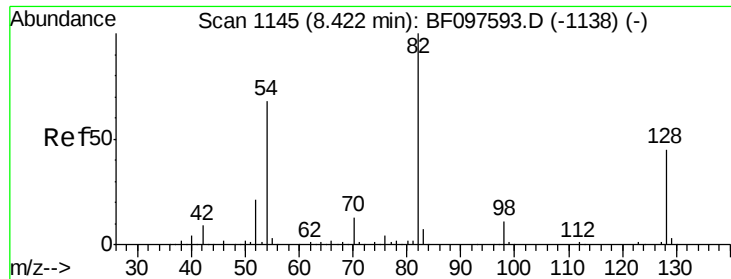
54 10.4 4.9 7.3#

68 5.5 4.1 6.1



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

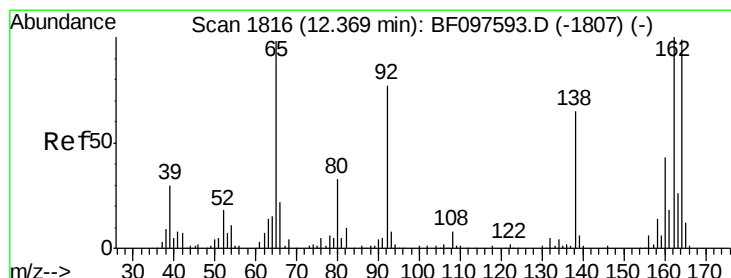
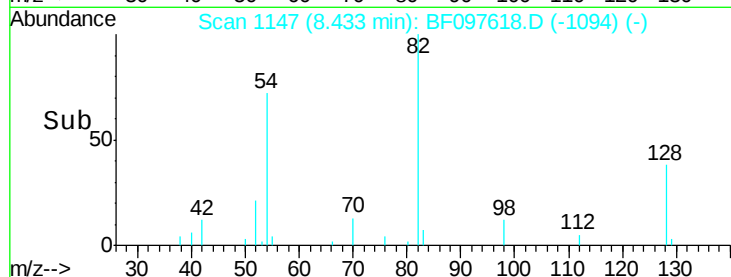
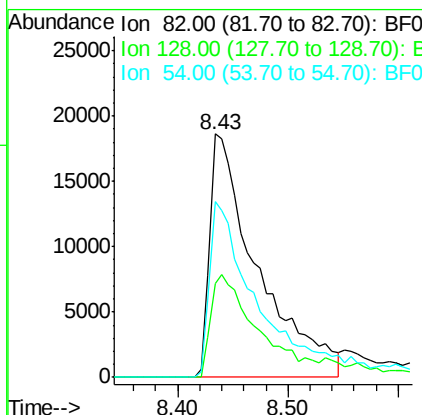
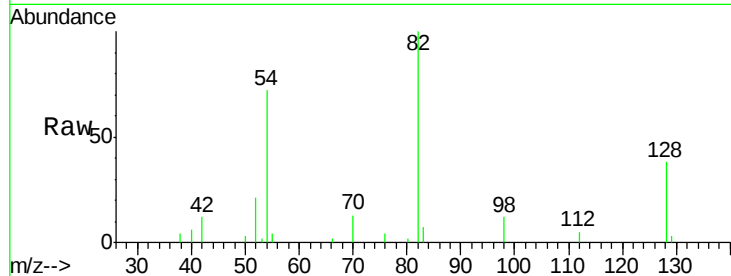




#23  
 Nitrobenzene-d5  
 Concen: 10.08 ng  
 RT: 8.43 min Scan# 1147  
 Delta R.T. 0.01 min  
 Lab File: BF097618.D  
 Acq: 12 Aug 2017 3:53

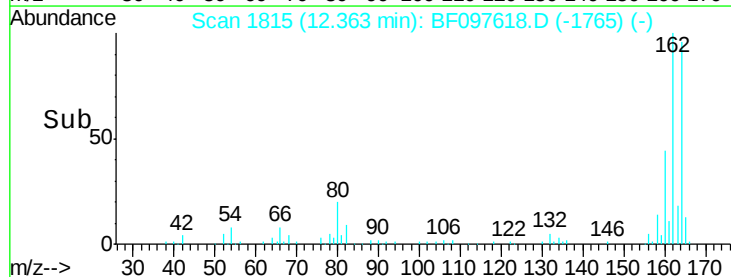
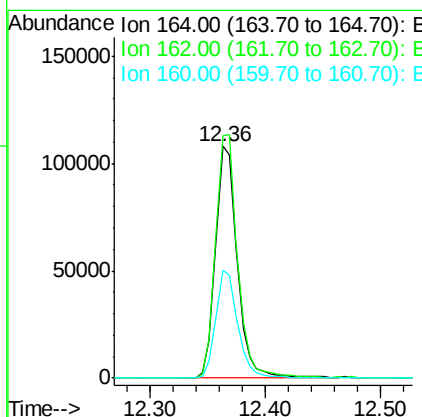
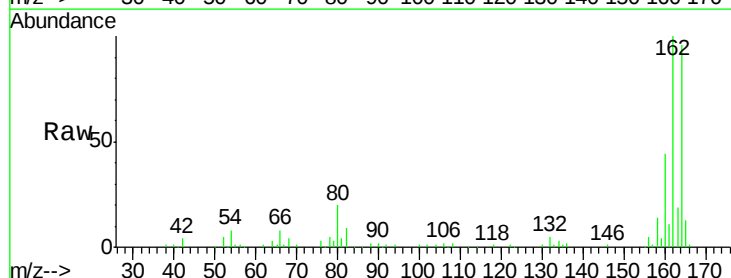
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-PS-01-012

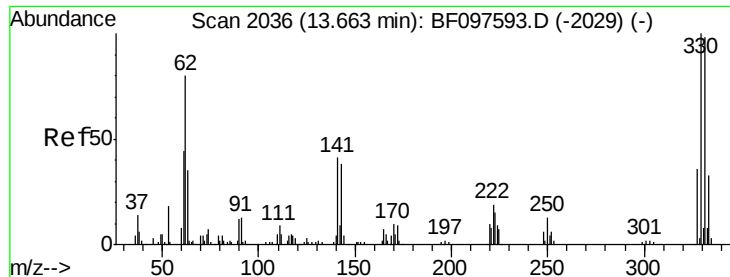
Tot Ion: 82 Resp: 55790  
 Ion Ratio Lower Upper  
 82 100  
 128 38.4 34.0 51.0  
 54 72.4 42.2 63.2#



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.36 min Scan# 1815  
 Delta R.T. -0.01 min  
 Lab File: BF097618.D  
 Acq: 12 Aug 2017 3:53

Tgt Ion:164 Resp: 142618  
 Ion Ratio Lower Upper  
 164 100  
 162 104.4 82.6 123.8  
 160 46.4 36.2 54.2

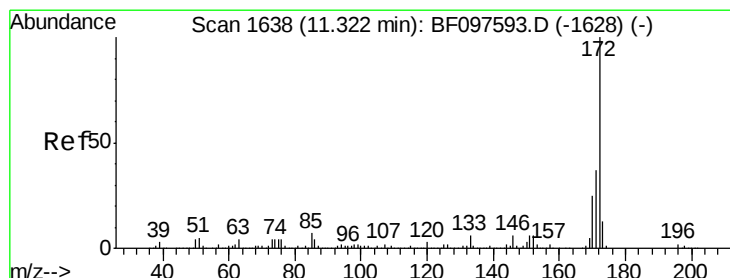
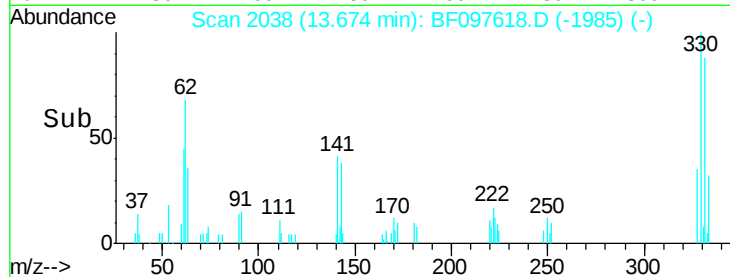
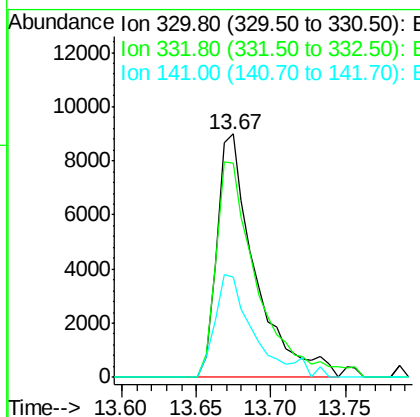
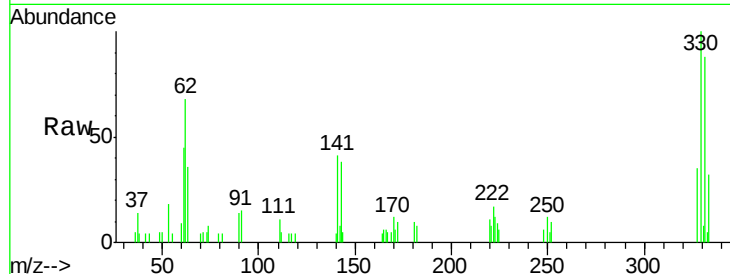




#41  
 2,4,6-Tribromophenol  
 Concen: 14.83 ng  
 RT: 13.67 min Scan# 2038  
 Delta R.T. 0.01 min  
 Lab File: BF097618.D  
 Acq: 12 Aug 2017 3:53

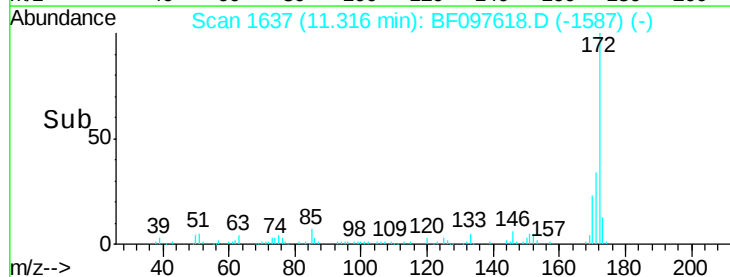
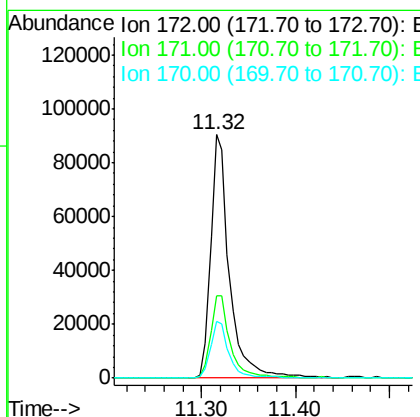
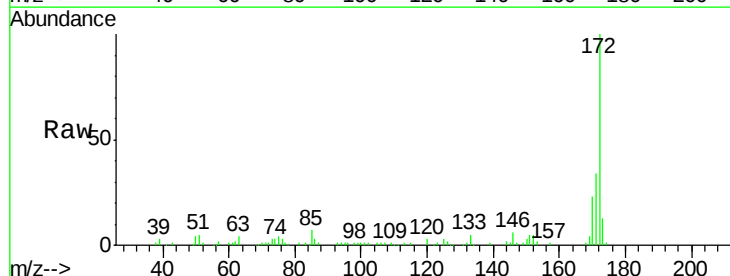
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-PS-01-012

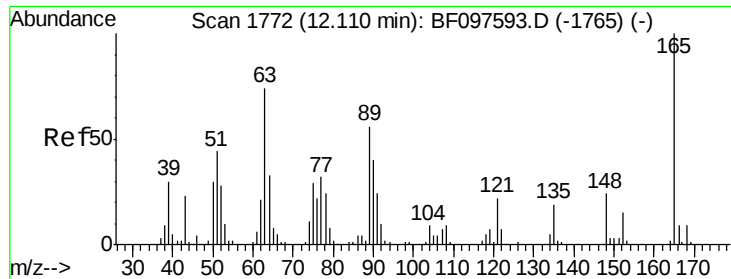
Tot Ion:330 Resp: 16080  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 76.6 115.0  
 141 43.3 31.4 47.2



#44  
 2-Fluorobiphenyl  
 Concen: 13.48 ng  
 RT: 11.32 min Scan# 1637  
 Delta R.T. -0.01 min  
 Lab File: BF097618.D  
 Acq: 12 Aug 2017 3:53

Tgt Ion:172 Resp: 127346  
 Ion Ratio Lower Upper  
 172 100  
 171 34.0 29.6 44.4  
 170 23.1 19.8 29.8

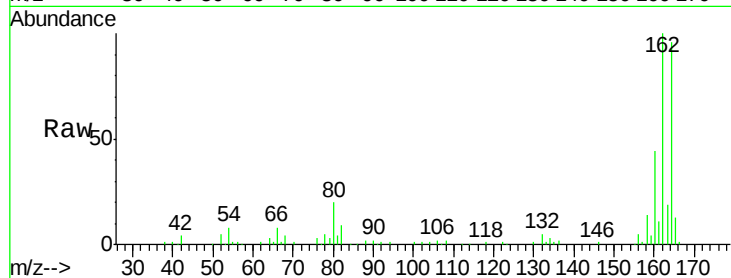




#50  
 2,6-Dinitrotoluene  
 Concen: 7.48 ng  
 RT: 12.36 min Scan# 1815  
 Delta R.T. 0.25 min  
 Lab File: BF097618.D  
 Acq: 12 Aug 2017 3:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-PS-01-012

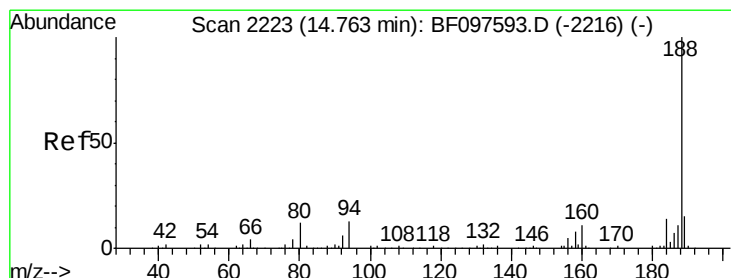
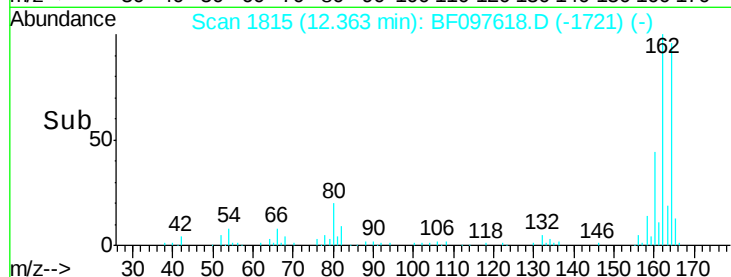
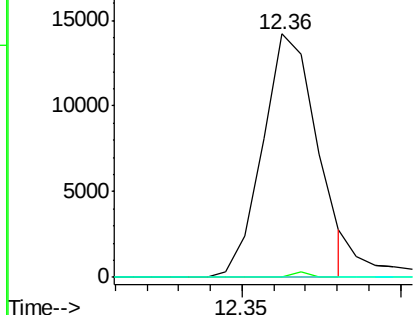
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

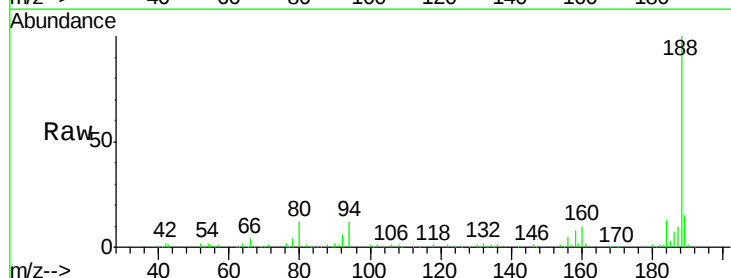
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.76 min Scan# 2223  
 Delta R.T. -0.00 min  
 Lab File: BF097618.D  
 Acq: 12 Aug 2017 3:53

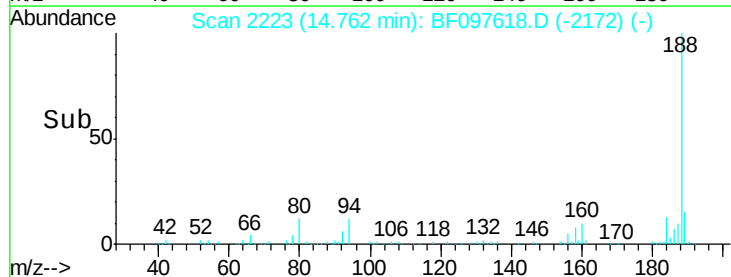
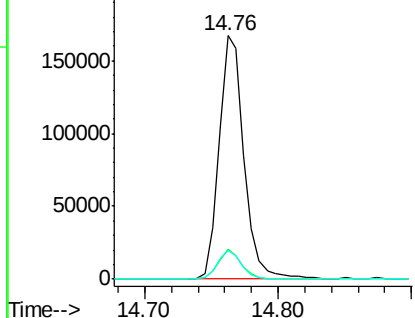
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 12.1  | 9.4   | 14.2  |
| 80      | 11.6  | 10.2  | 15.2  |

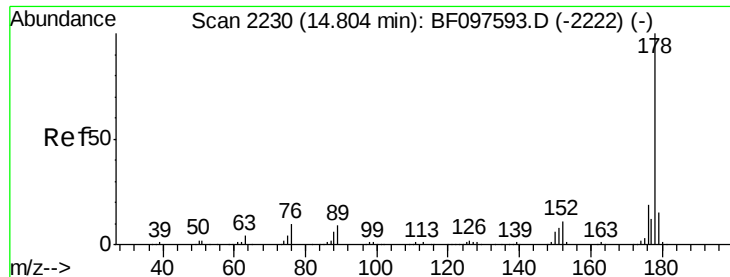


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 3.87 ng

RT: 14.80 min Scan# 2230

Delta R.T. -0.00 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

Instrument :

BNA\_F

ClientSampleId :

FK-PS-01-012

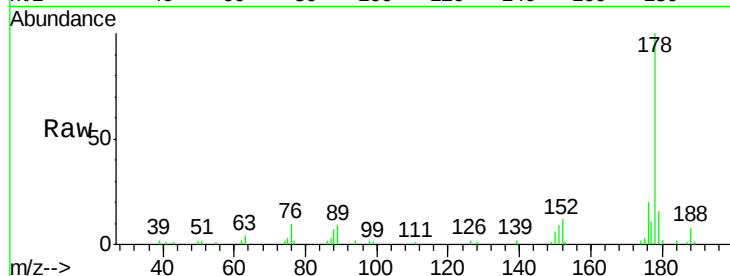
Tot Ion:178 Resp: 49061

Ion Ratio Lower Upper

178 100

176 20.3 16.2 24.4

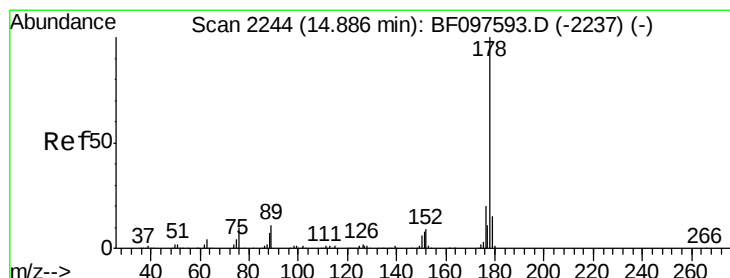
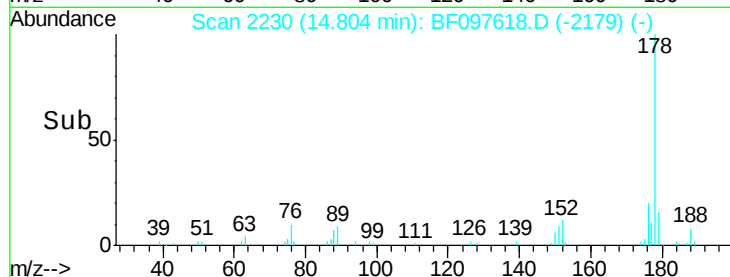
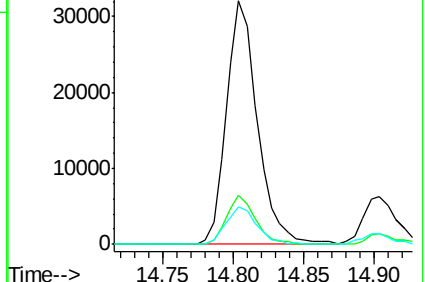
179 15.6 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 3.79 ng

RT: 14.80 min Scan# 2230

Delta R.T. -0.08 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

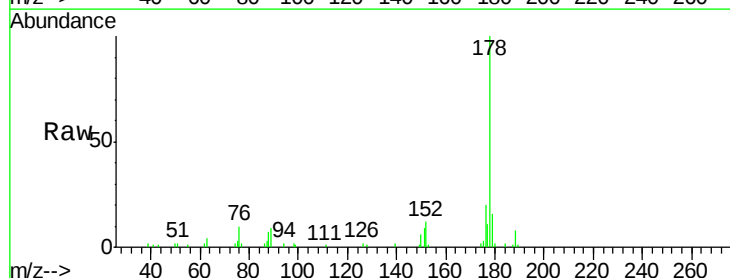
Tgt Ion:178 Resp: 49061

Ion Ratio Lower Upper

178 100

176 20.3 15.8 23.8

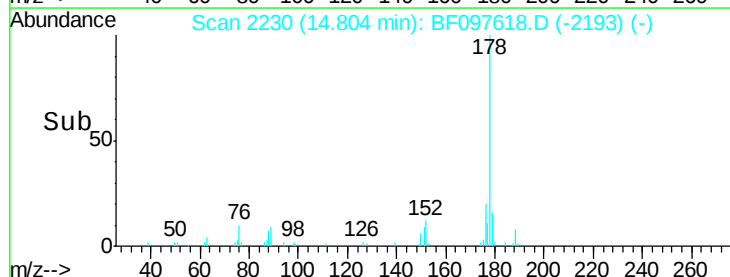
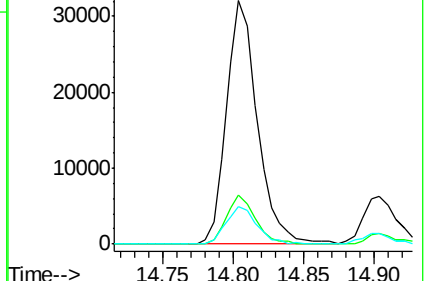
179 15.6 12.7 19.1

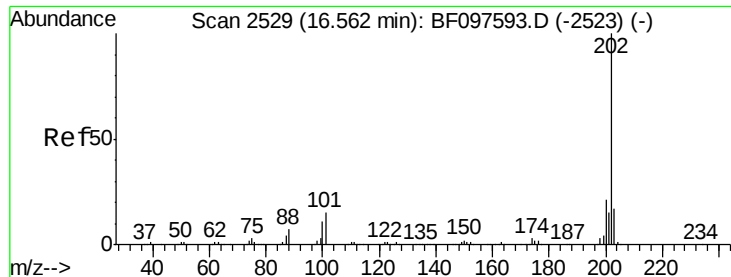


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 5.42 ng

RT: 16.57 min Scan# 2530

Delta R.T. 0.01 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

Instrument :

BNA\_F

ClientSampleId :

FK-PS-01-012

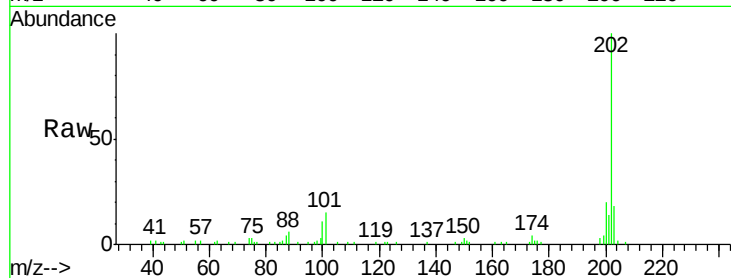
Tot Ion:202 Resp: 62067

Ion Ratio Lower Upper

202 100

101 15.0 0.0 33.2

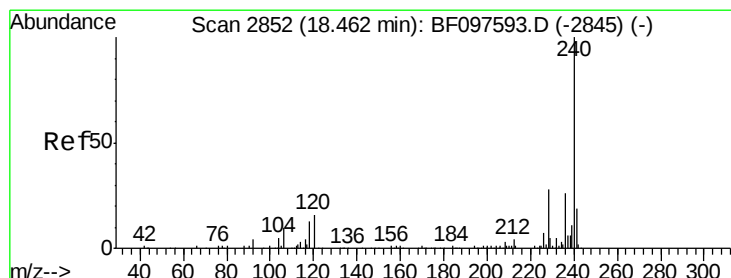
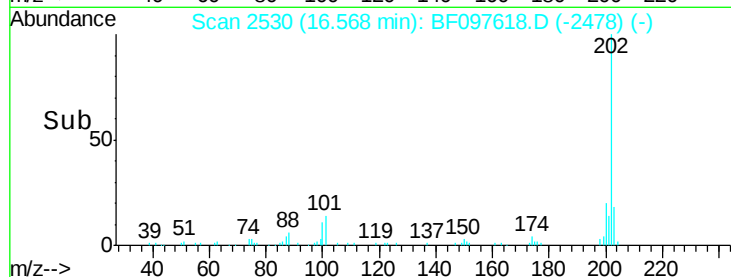
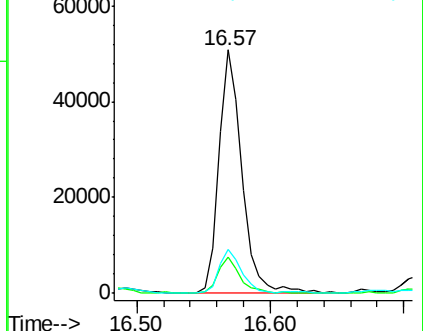
203 18.1 0.0 38.1



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: 18.46 min Scan# 2852

Delta R.T. -0.00 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

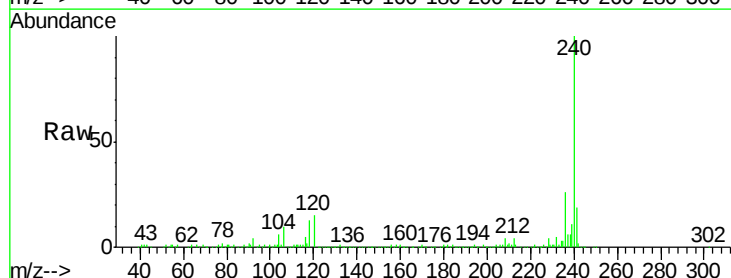
Tgt Ion:240 Resp: 206606

Ion Ratio Lower Upper

240 100

120 15.3 5.8 8.8#

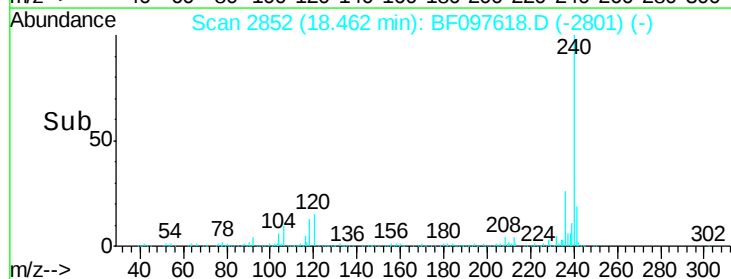
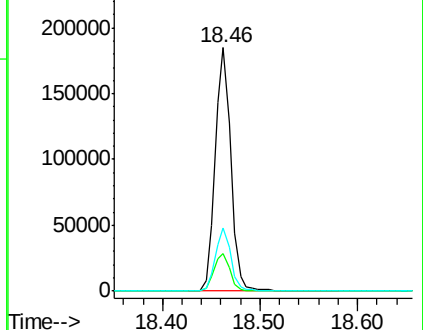
236 26.1 20.5 30.7

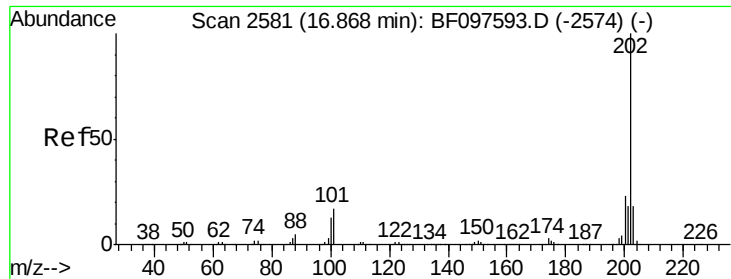


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

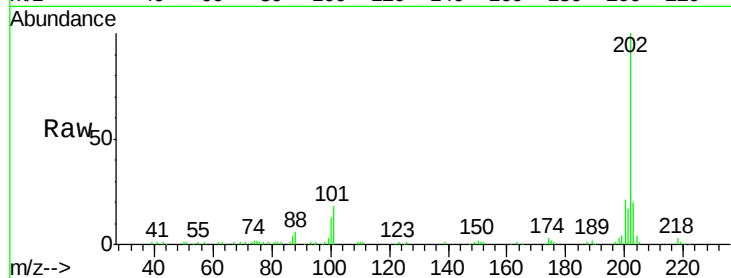




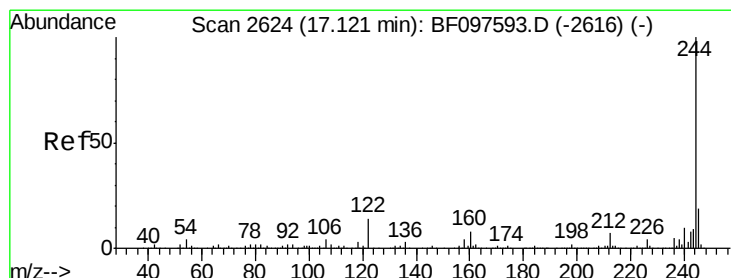
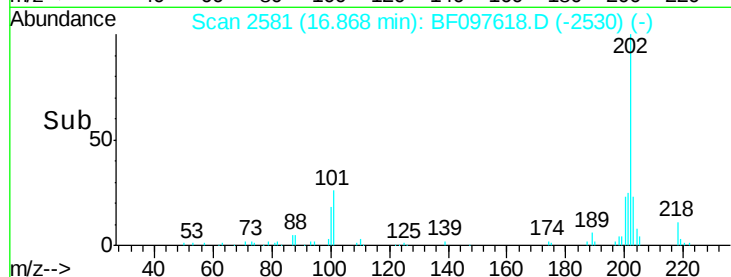
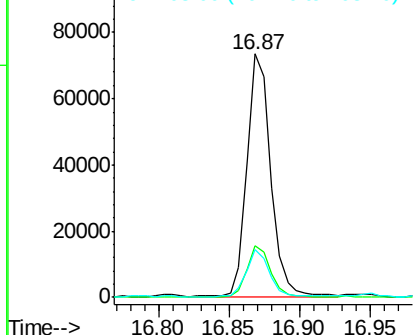
#77  
Pvrene  
Concen: 5.17 ng  
RT: 16.87 min Scan# 2581  
Delta R.T. -0.00 min  
Lab File: BF097618.D  
Acq: 12 Aug 2017 3:53

Instrument :  
BNA\_F  
ClientSampleId :  
FK-PS-01-012

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.2  | 17.6  | 26.4  |
| 203     | 19.6  | 14.4  | 21.6  |

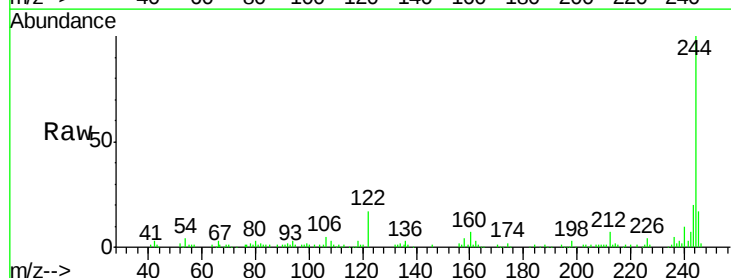


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

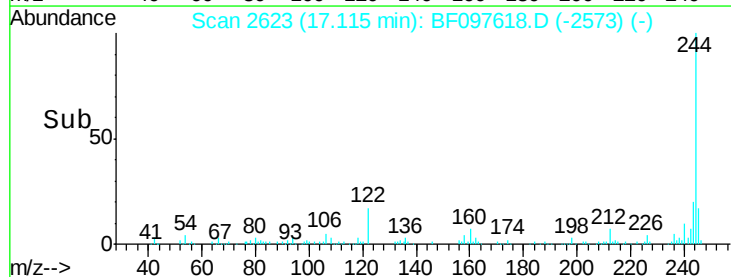
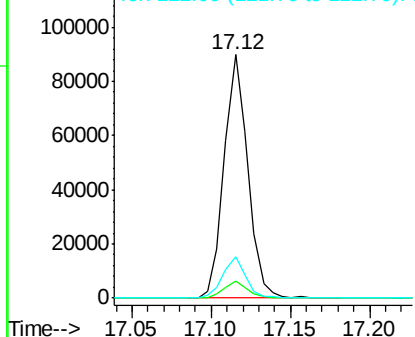


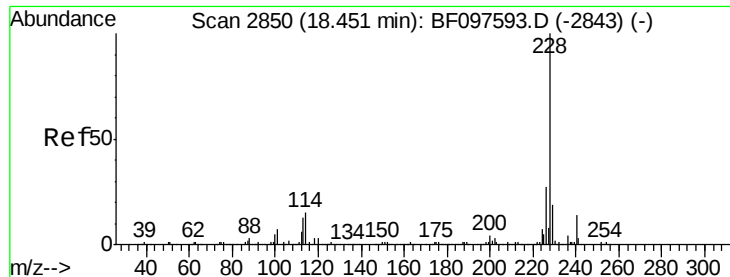
#78  
Terphenyl-d14  
Concen: 9.32 ng  
RT: 17.12 min Scan# 2623  
Delta R.T. -0.01 min  
Lab File: BF097618.D  
Acq: 12 Aug 2017 3:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 6.0   | 9.0   |
| 122     | 17.0  | 10.3  | 15.5  |



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





#80

Benzo(a)anthracene

Concen: 2.17 ng

RT: 18.45 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

Instrument :

BNA\_F

ClientSampleId :

FK-PS-01-012

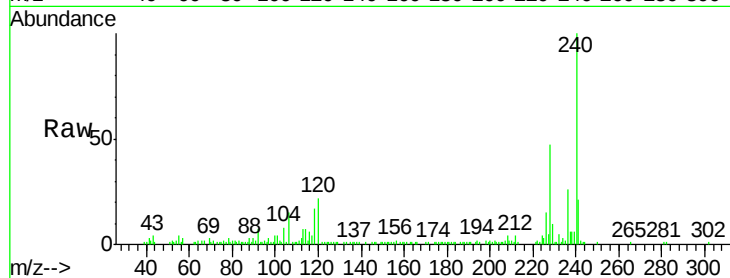
Tot Ion:228 Resp: 26185

Ion Ratio Lower Upper

228 100

226 31.9 22.6 33.8

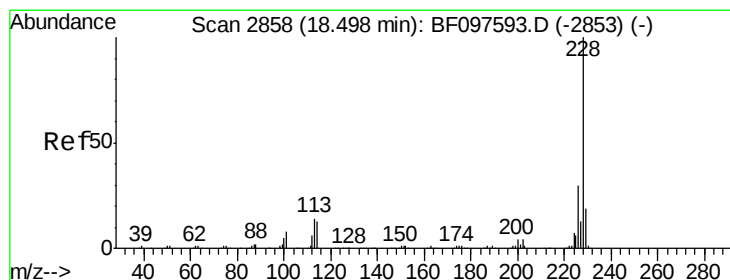
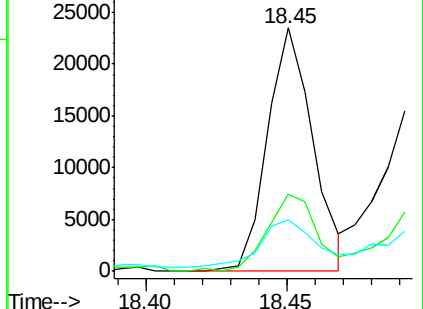
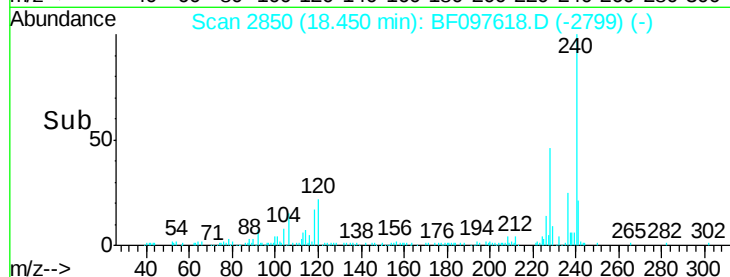
229 21.4 16.3 24.5



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: 2.36 ng

RT: 18.50 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BF097618.D

Acq: 12 Aug 2017 3:53

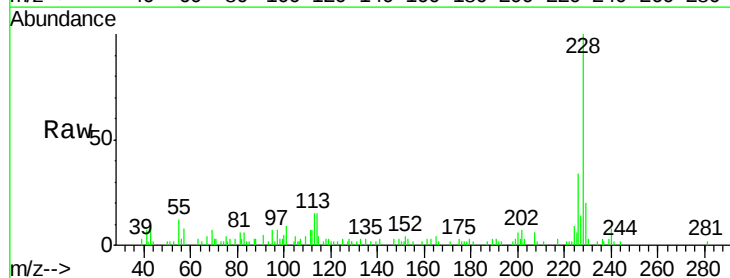
Tgt Ion:228 Resp: 28274

Ion Ratio Lower Upper

228 100

226 34.1 24.9 37.3

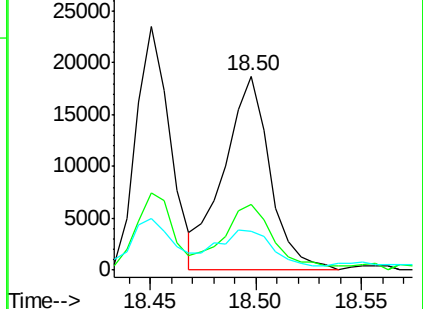
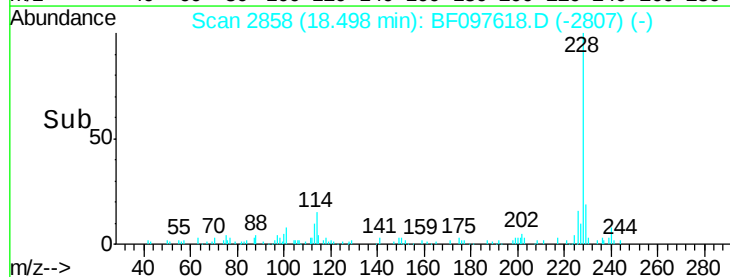
229 20.3 15.8 23.6

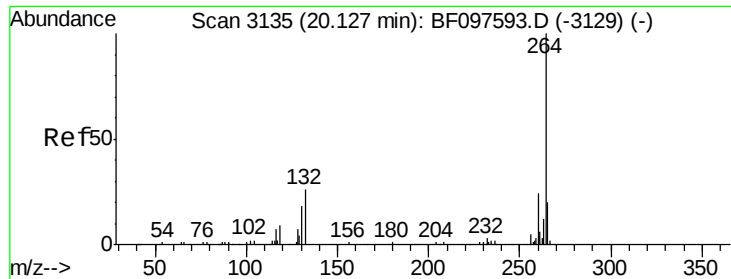


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

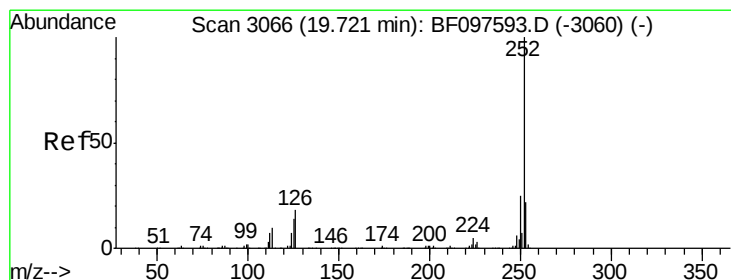
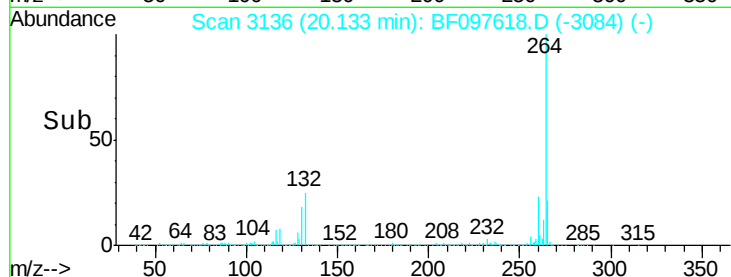
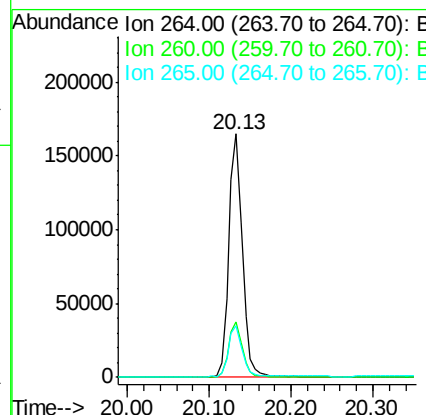
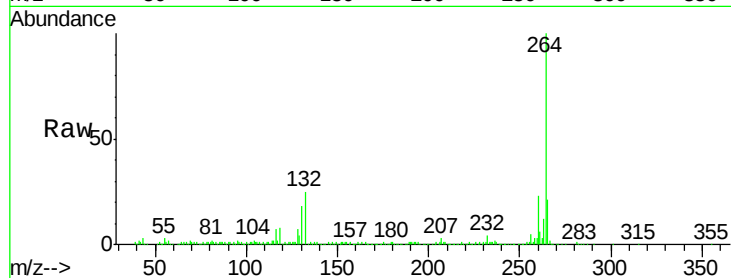




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.13 min Scan# 3136  
Delta R.T. 0.01 min  
Lab File: BF097618.D  
Acq: 12 Aug 2017 3:53

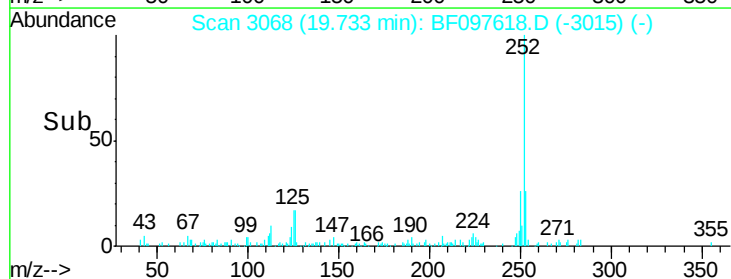
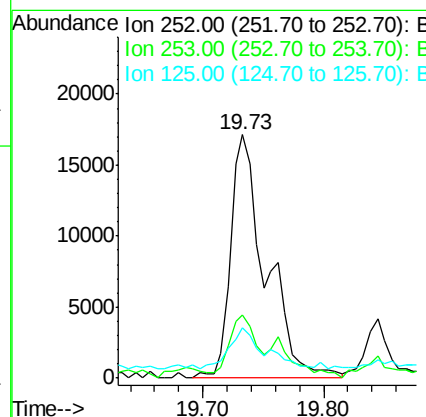
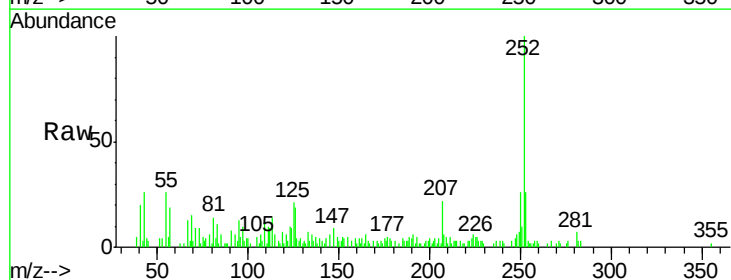
Instrument :  
BNA\_F  
ClientSampleId :  
FK-PS-01-012

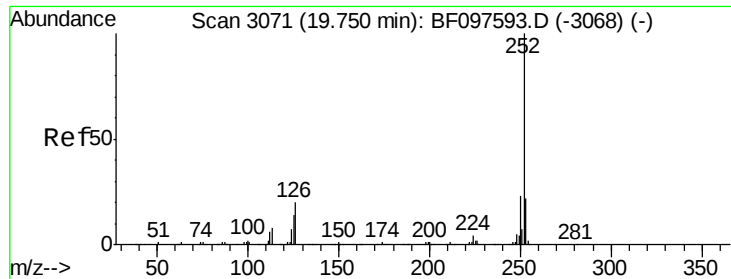
Tot Ion:264 Resp: 191270  
Ion Ratio Lower Upper  
264 100  
260 22.6 19.5 29.3  
265 21.4 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 3.03 ng  
RT: 19.73 min Scan# 3068  
Delta R.T. 0.01 min  
Lab File: BF097618.D  
Acq: 12 Aug 2017 3:53

Tgt Ion:252 Resp: 34797  
Ion Ratio Lower Upper  
252 100  
253 26.0 18.1 27.1  
125 20.7 9.8 14.8#

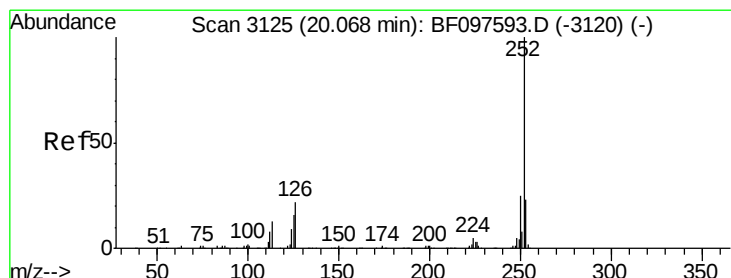
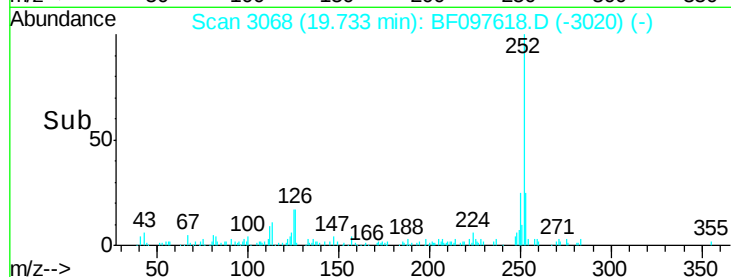
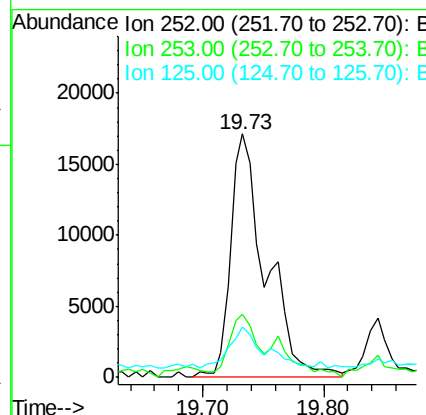
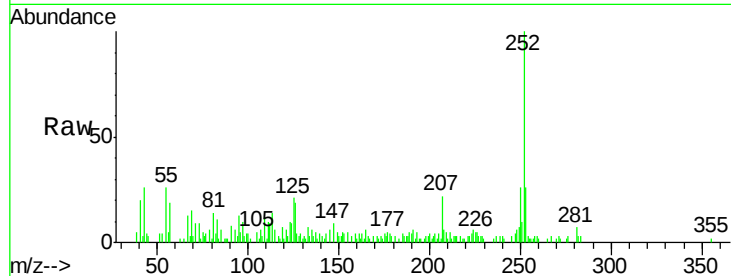




#88  
Benzo(k)fluoranthene  
Concen: 3.01 ng  
RT: 19.73 min Scan# 3068  
Delta R.T. -0.02 min  
Lab File: BF097618.D  
Acq: 12 Aug 2017 3:53

Instrument :  
BNA\_F  
ClientSampleId :  
FK-PS-01-012

Tot Ion:252 Resp: 34797  
Ion Ratio Lower Upper  
252 100  
253 26.0 18.4 27.6  
125 20.7 13.1 19.7#



#89  
Benzo(a)pyrene  
Concen: 2.13 ng  
RT: 20.08 min Scan# 3127  
Delta R.T. 0.01 min  
Lab File: BF097618.D  
Acq: 12 Aug 2017 3:53

Tgt Ion:252 Resp: 22491  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.5 26.3  
125 17.8 11.0 16.4#

