

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071017\  
 Data File : BF096621.D  
 Acq On : 11 Jul 2017 00:33  
 Operator : SJ/JU  
 Sample : I4108-01  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 11 01:22:51 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 07 13:02:33 2017  
 Response via : Initial Calibration

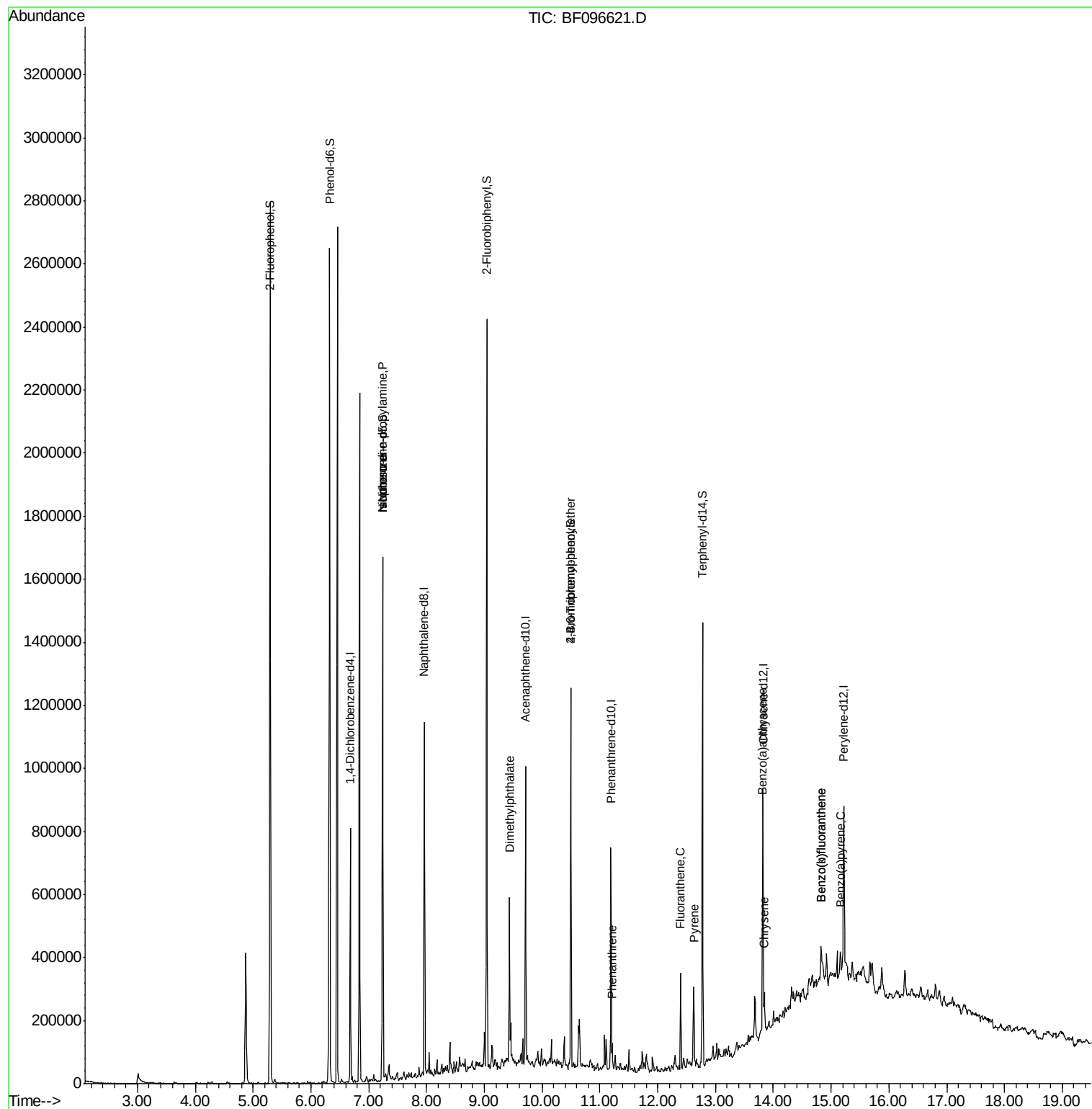
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 122739   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.96  | 136  | 465506   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.72  | 164  | 169144   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.19 | 188  | 232526   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12               | 13.82 | 240  | 243464   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12               | 15.22 | 264  | 235140   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.30  | 112  | 795744   | 95.69 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.33  | 99   | 932322   | 91.20 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.25  | 82   | 504997   | 65.19 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.50 | 330  | 122350   | 92.60 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.05  | 172  | 796260   | 80.49 | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.77 | 244  | 442425   | 38.83 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.25  | 70   | 68401    | 11.23 | ng    | # 85     |
| 25) Isophorone                 | 7.25  | 82   | 501989   | 33.42 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.43  | 163  | 182027   | 14.42 | ng    | 100      |
| 66) 4-Bromophenyl-phenylether  | 10.50 | 248  | 7918     | 3.50  | ng    | # 1      |
| 70) Phenanthrene               | 11.22 | 178  | 25560    | 2.03  | ng    | 96       |
| 74) Fluoranthene               | 12.40 | 202  | 105339   | 8.55  | ng    | 98       |
| 77) Pyrene                     | 12.63 | 202  | 103859   | 5.31  | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.81 | 228  | 48629    | 3.45  | ng    | 95       |
| 82) Chrysene                   | 13.84 | 228  | 43138    | 2.92  | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 14.83 | 252  | 64922    | 4.41  | ng    | # 89     |
| 88) Benzo(k)fluoranthene       | 14.83 | 252  | 64922    | 4.93  | ng    | # 93     |
| 89) Benzo(a)pyrene             | 15.16 | 252  | 34992    | 2.66  | ng    | # 89     |

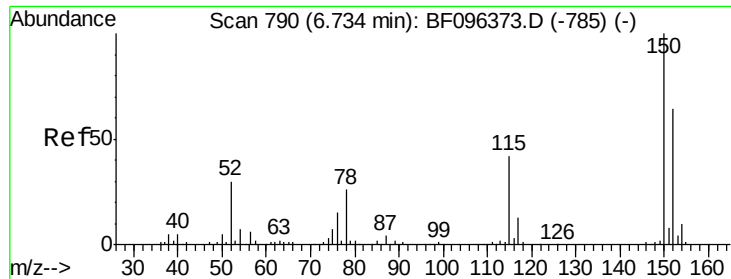
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071017\  
Data File : BF096621.D  
Acq On : 11 Jul 2017 00:33  
Operator : SJ/JU  
Sample : I4108-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jul 11 01:22:51 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 07 13:02:33 2017  
Response via : Initial Calibration



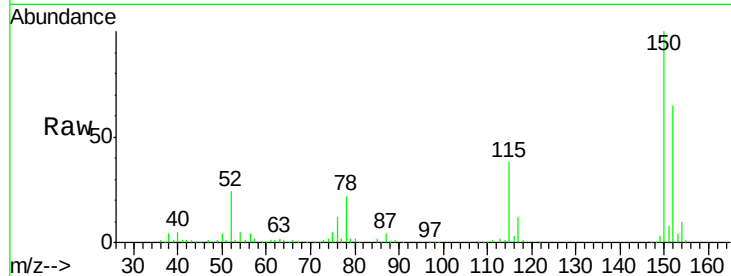


#1

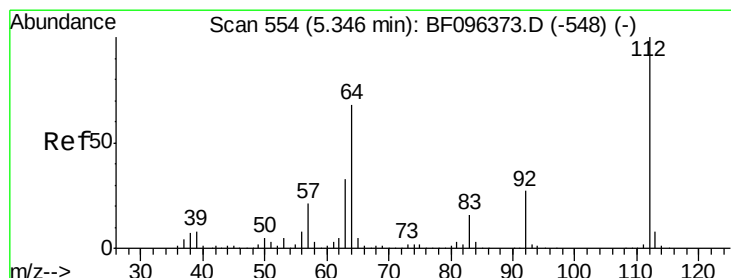
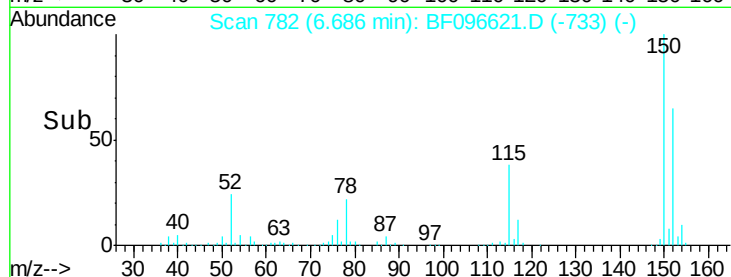
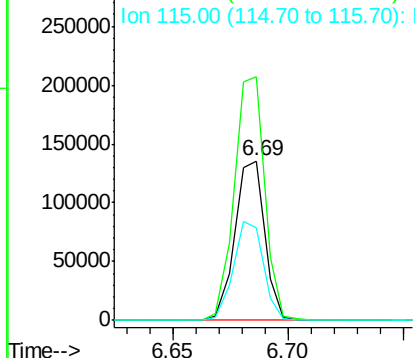
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.69 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF096621.D  
Acq: 11 Jul 2017 00:33

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 122739  
Ion Ratio Lower Upper  
152 100  
150 152.8 126.2 189.2  
115 58.0 52.2 78.2



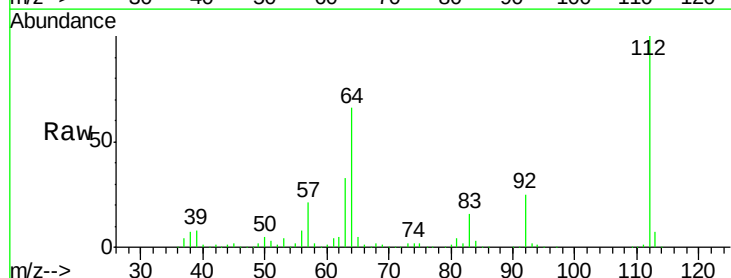
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



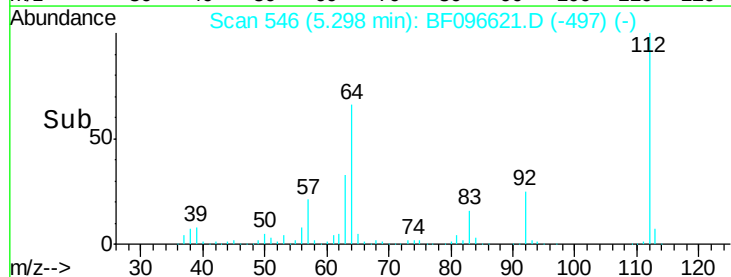
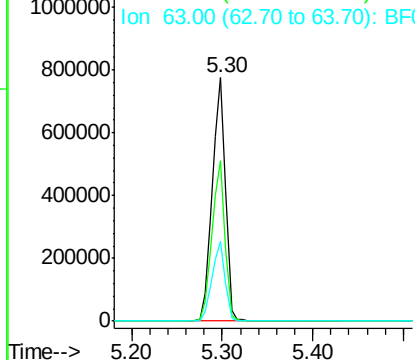
#5

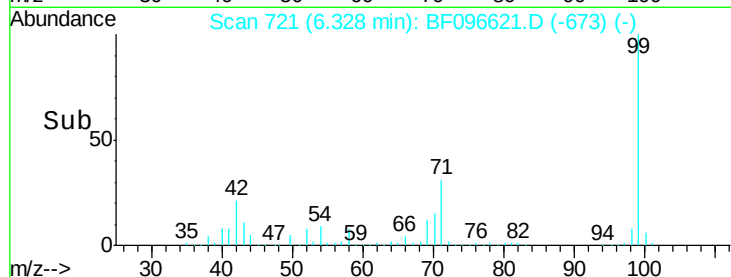
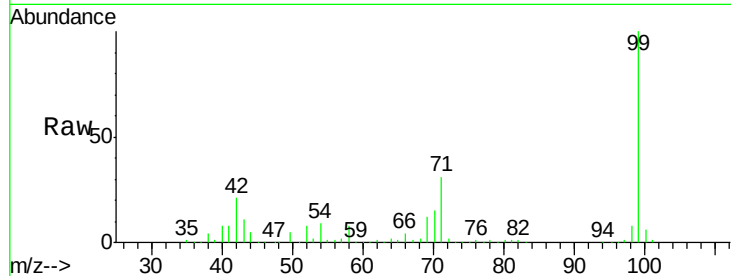
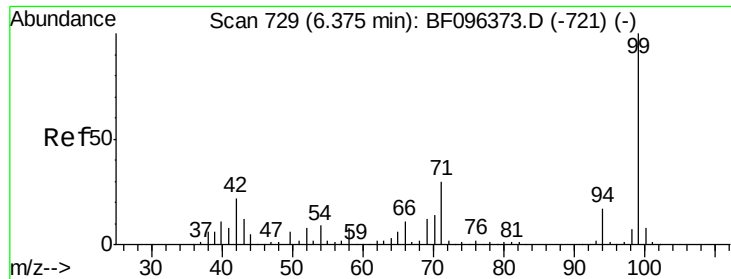
2-Fluorophenol  
Concen: 95.69 ng  
RT: 5.30 min Scan# 546  
Delta R.T. -0.01 min  
Lab File: BF096621.D  
Acq: 11 Jul 2017 00:33

Tgt Ion:112 Resp: 795744  
Ion Ratio Lower Upper  
112 100  
64 65.7 46.0 69.0  
63 32.8 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: 91.20 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.02 min

Lab File: BF096621.D

Acq: 11 Jul 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

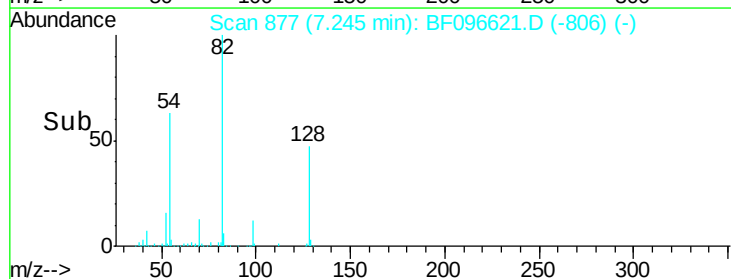
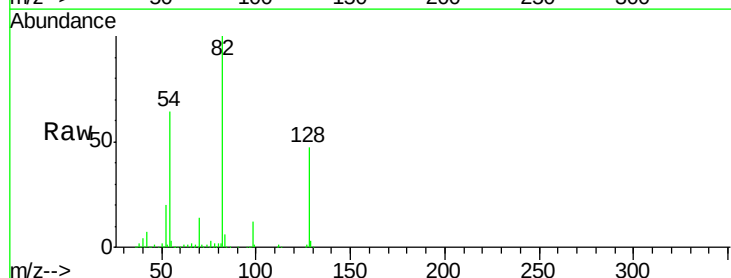
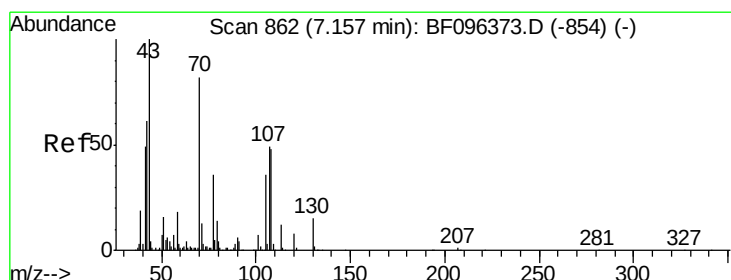
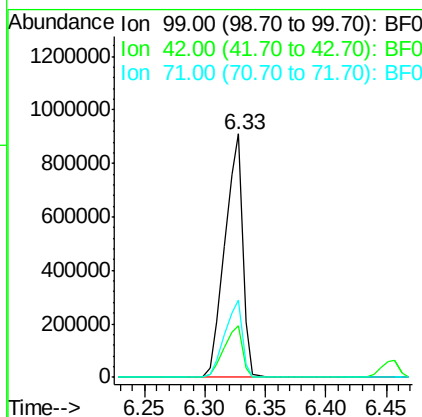
Tot Ion: 99 Resp: 932322

Ion Ratio Lower Upper

99 100

42 21.4 13.5 20.3#

71 31.5 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 11.23 ng

RT: 7.25 min Scan# 877

Delta R.T. 0.12 min

Lab File: BF096621.D

Acq: 11 Jul 2017 00:33

Tgt Ion: 70 Resp: 68401

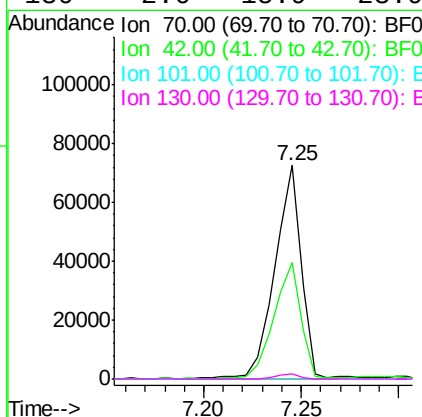
Ion Ratio Lower Upper

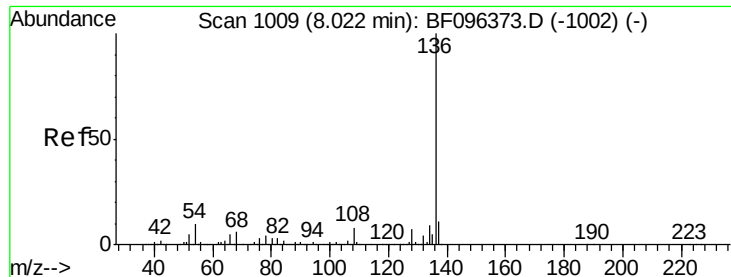
70 100

42 54.7 47.2 70.8

101 0.0 7.2 10.8#

130 2.6 15.9 23.9#

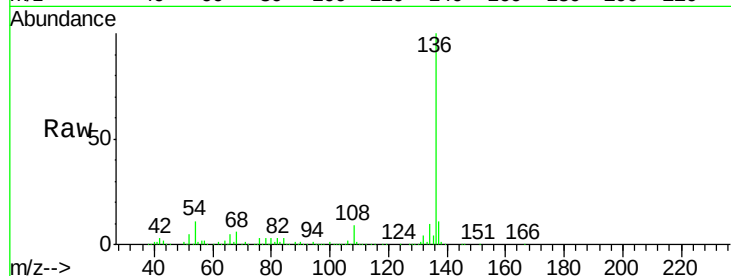




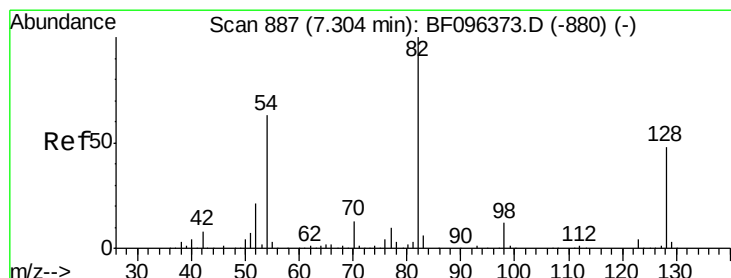
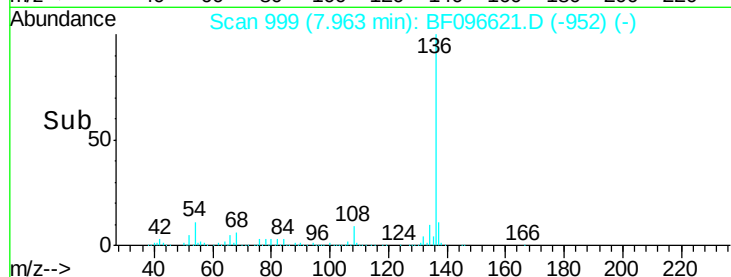
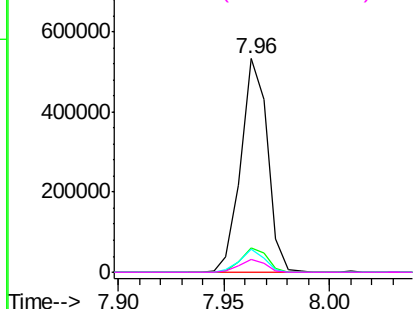
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.96 min Scan# 999  
Delta R.T. -0.02 min  
Lab File: BF096621.D  
Acq: 11 Jul 2017 00:33

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 465506   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.5  | 8.5 12.7 |
| 54          | 11.0  | 4.9 7.3# |
| 68          | 6.1   | 4.1 6.1  |

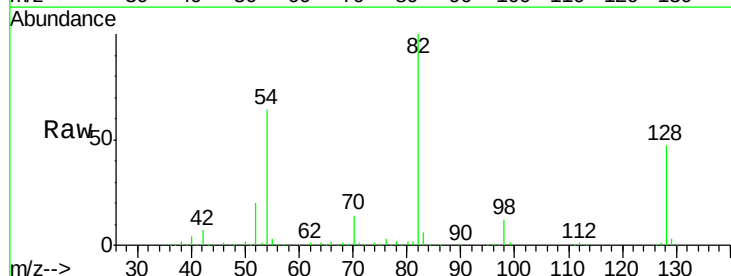


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

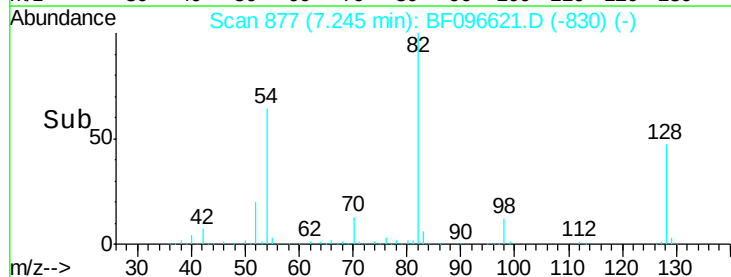
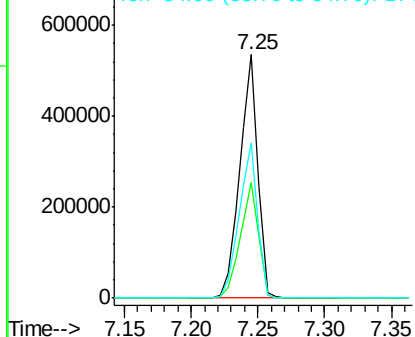


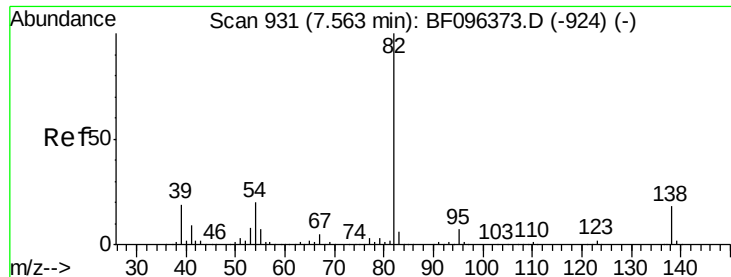
#23  
Nitrobenzene-d5  
Concen: 65.19 ng  
RT: 7.25 min Scan# 877  
Delta R.T. -0.02 min  
Lab File: BF096621.D  
Acq: 11 Jul 2017 00:33

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 504997     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 47.3  | 34.0 51.0  |
| 54          | 64.0  | 42.2 63.2# |



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





#25

Isophorone

Concen: 33.42 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.28 min

Lab File: BF096621.D

Acq: 11 Jul 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

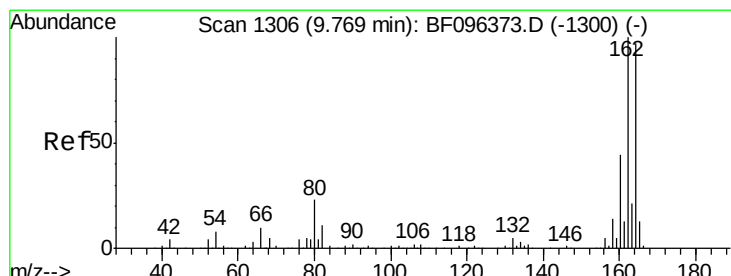
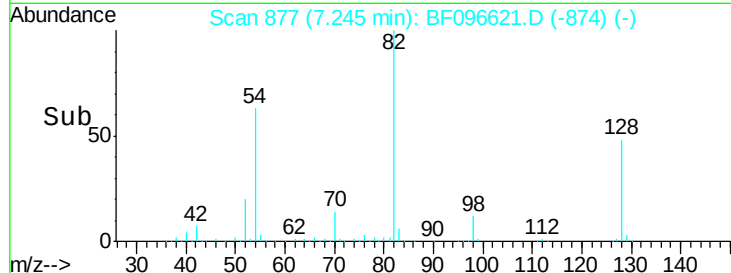
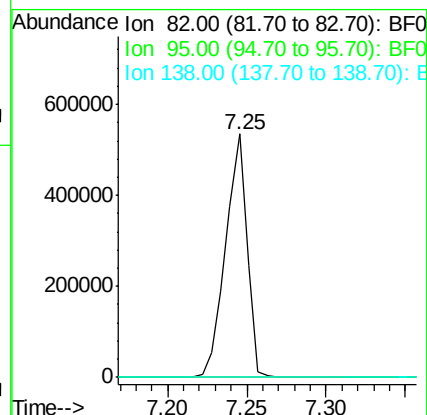
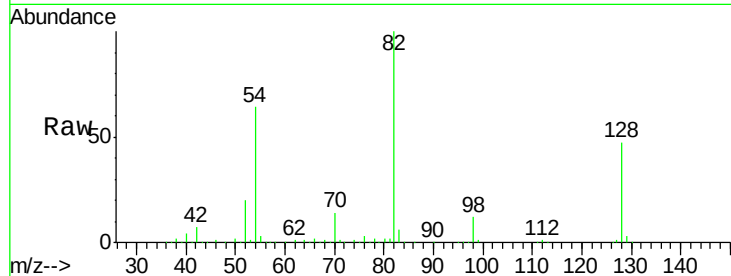
Tot Ion: 82 Resp: 501989

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF096621.D

Acq: 11 Jul 2017 00:33

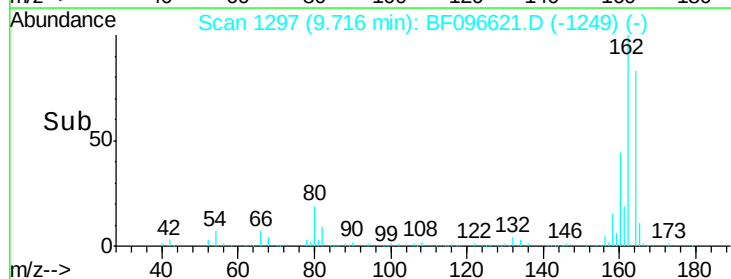
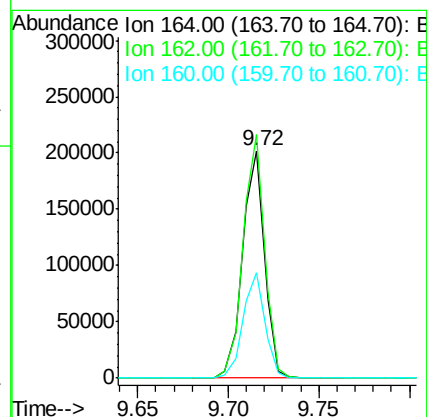
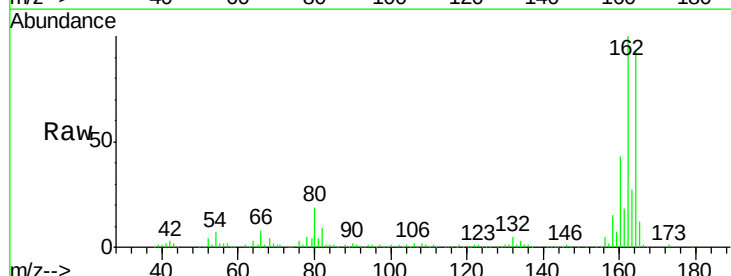
Tgt Ion:164 Resp: 169144

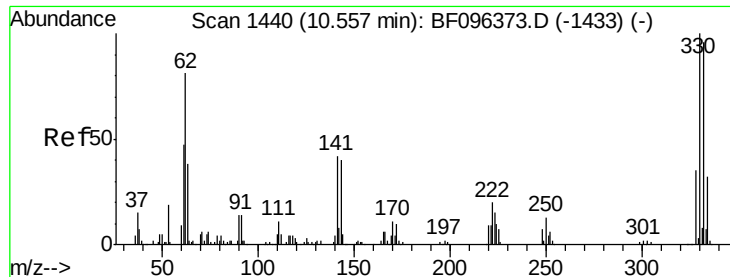
Ion Ratio Lower Upper

164 100

162 107.2 82.6 123.8

160 46.3 36.2 54.2

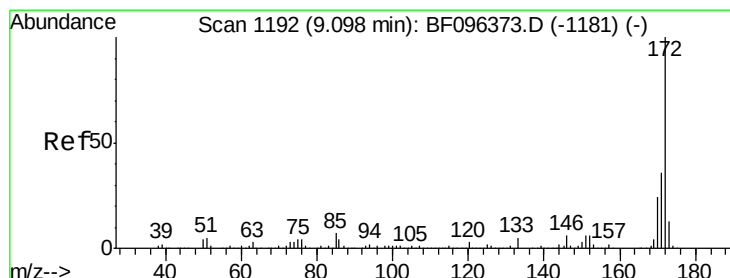
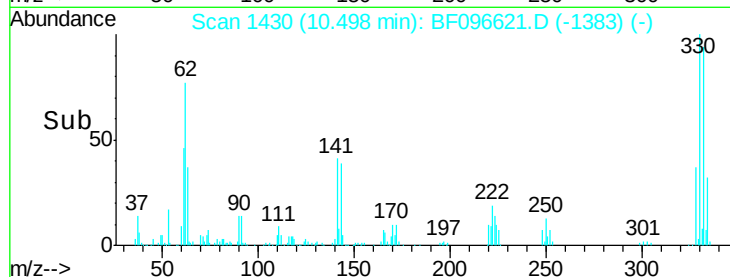
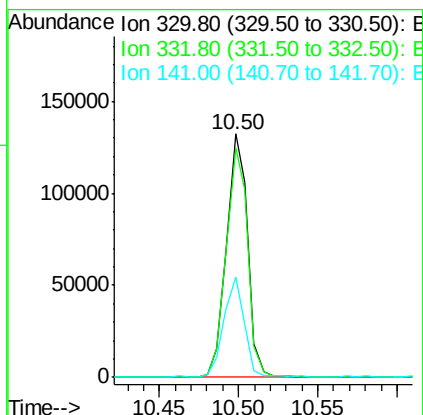
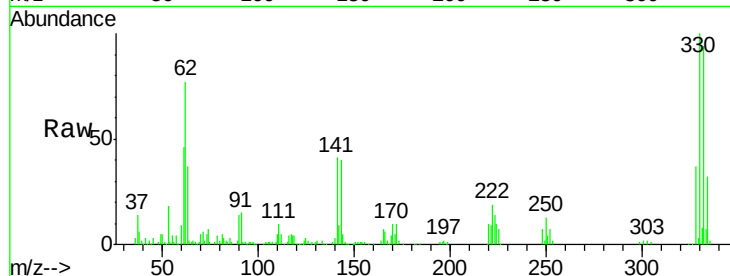




#41  
 2,4,6-Tribromophenol  
 Concen: 92.60 ng  
 RT: 10.50 min Scan# 1430  
 Delta R.T. -0.02 min  
 Lab File: BF096621.D  
 Acq: 11 Jul 2017 00:33

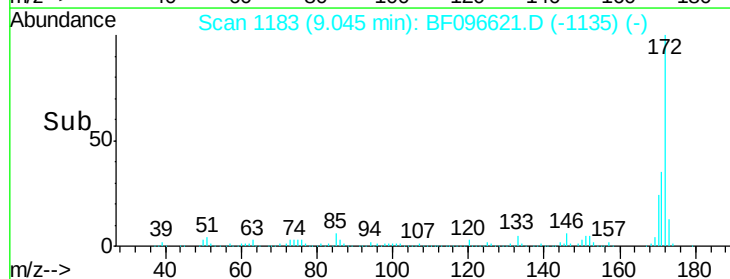
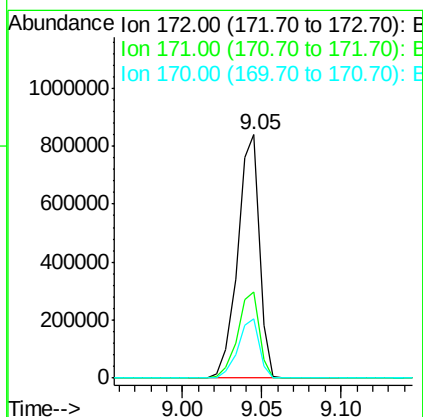
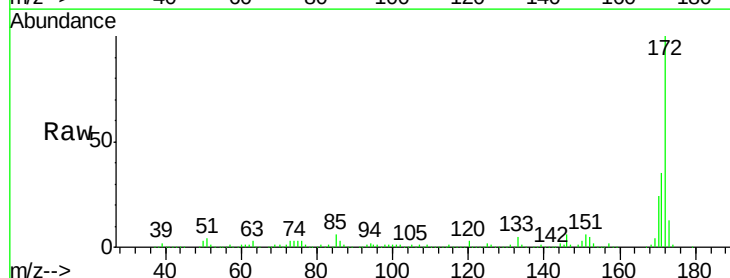
Instrument :  
 BNA\_F  
 ClientSampleId :

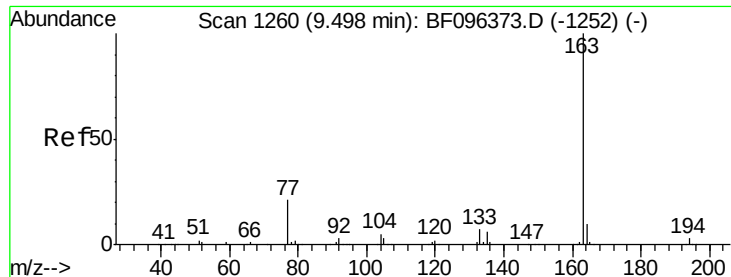
Tot Ion:330 Resp: 122350  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 76.6 115.0  
 141 39.5 31.4 47.2



#44  
 2-Fluorobiphenyl  
 Concen: 80.49 ng  
 RT: 9.05 min Scan# 1183  
 Delta R.T. -0.02 min  
 Lab File: BF096621.D  
 Acq: 11 Jul 2017 00:33

Tgt Ion:172 Resp: 796260  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 29.6 44.4  
 170 24.4 19.8 29.8

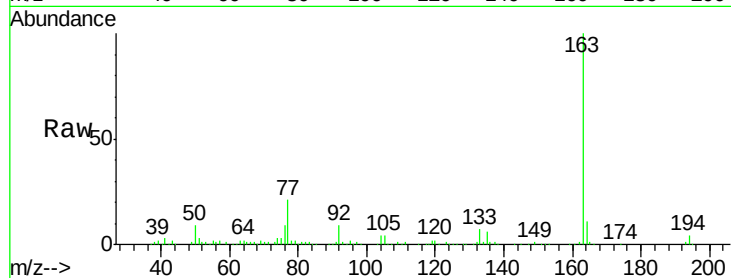




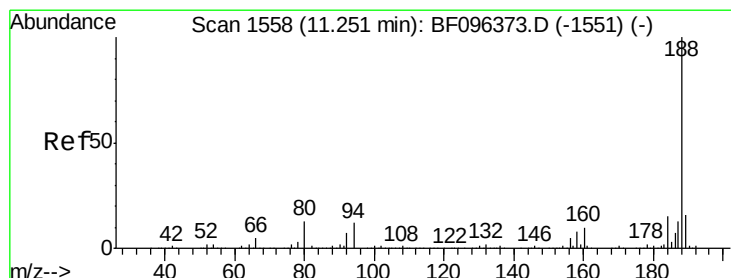
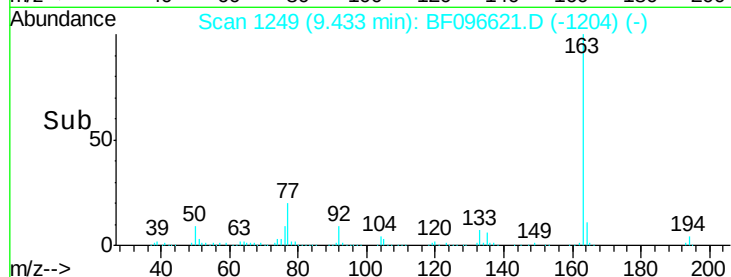
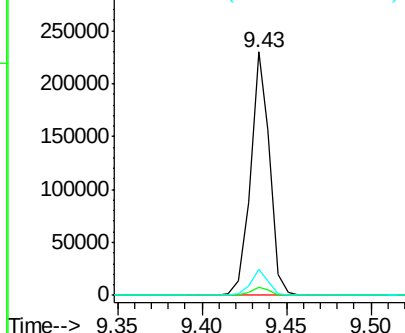
#49  
Dimethylphthalate  
Concen: 14.42 ng  
RT: 9.43 min Scan# 1249  
Delta R.T. -0.04 min  
Lab File: BF096621.D  
Acq: 11 Jul 2017 00:33

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 182027  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.6 4.0  
164 10.5 8.4 12.6

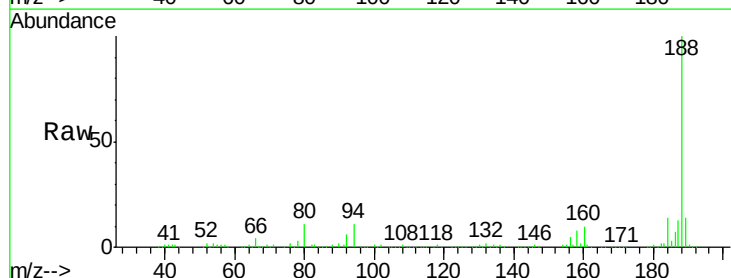


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

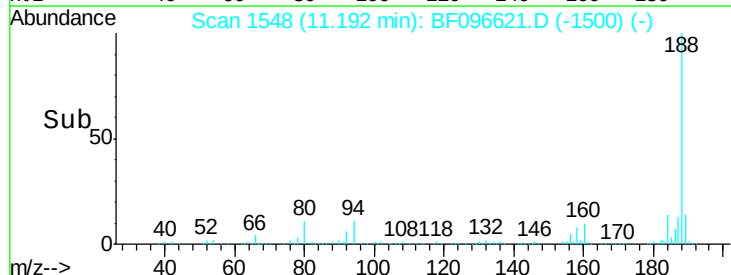
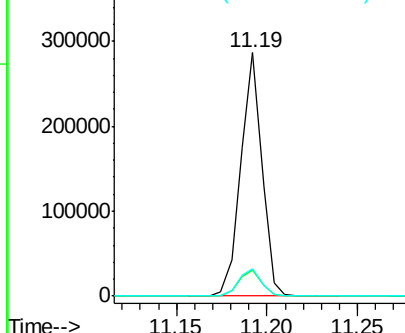


#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.19 min Scan# 1548  
Delta R.T. -0.02 min  
Lab File: BF096621.D  
Acq: 11 Jul 2017 00:33

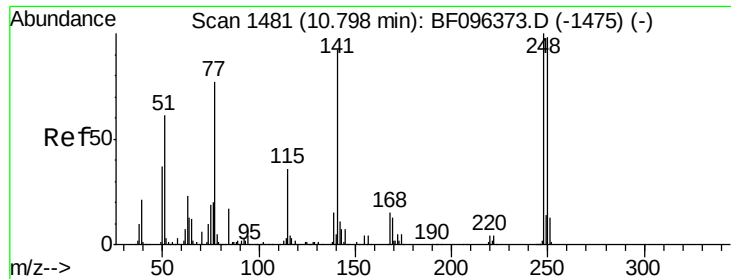
Tgt Ion:188 Resp: 232526  
Ion Ratio Lower Upper  
188 100  
94 10.9 9.4 14.2  
80 11.1 10.2 15.2



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



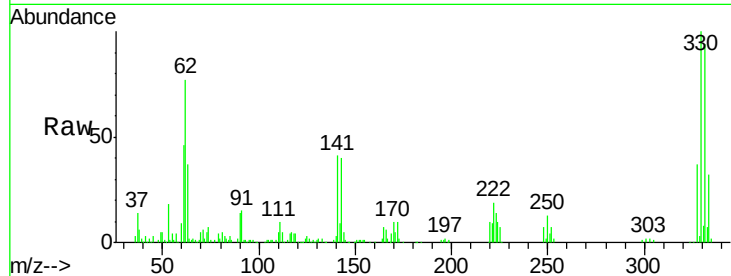




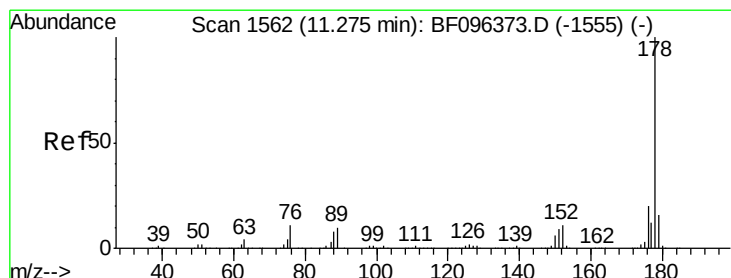
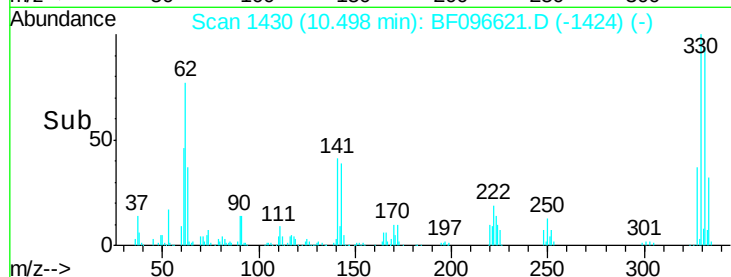
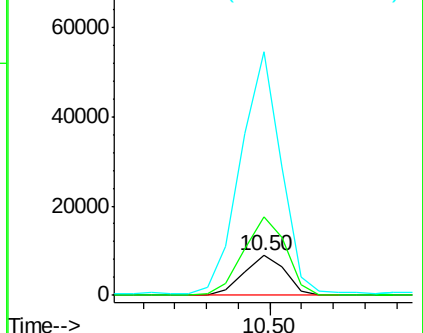
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.50 ng  
 RT: 10.50 min Scan# 1430  
 Delta R.T. -0.26 min  
 Lab File: BF096621.D  
 Acq: 11 Jul 2017 00:33

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 7918  
 Ion Ratio Lower Upper  
 248 100  
 250 197.0 76.8 115.2#  
 141 611.7 68.6 103.0#

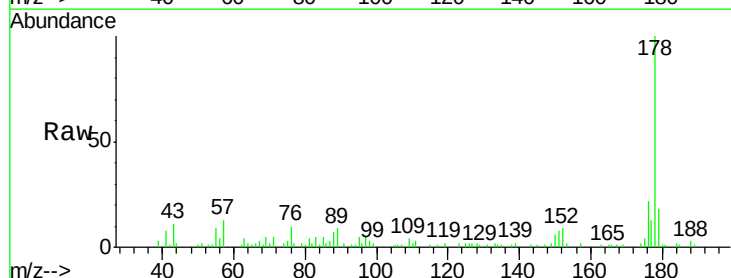


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

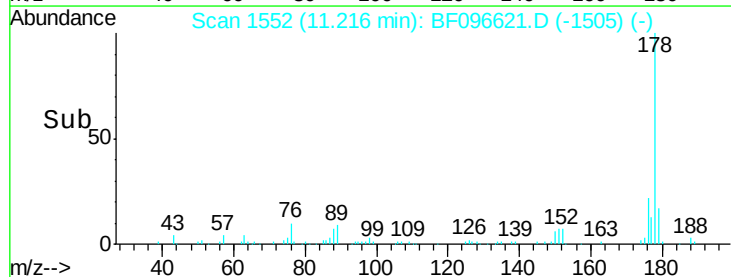
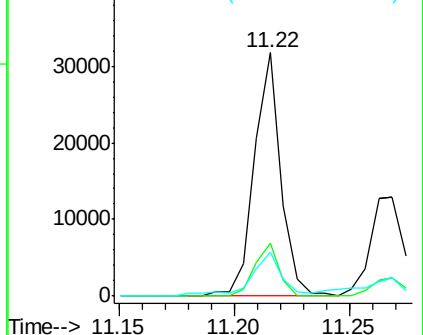


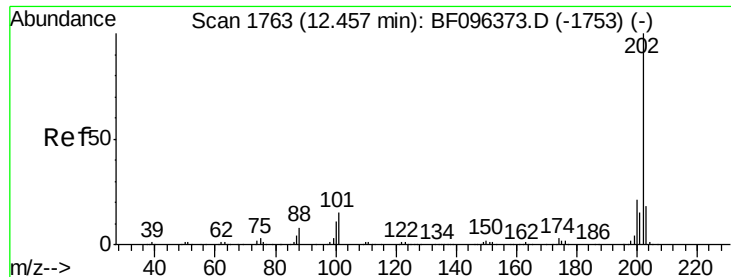
#70  
 Phenanthrene  
 Concen: 2.03 ng  
 RT: 11.22 min Scan# 1552  
 Delta R.T. -0.02 min  
 Lab File: BF096621.D  
 Acq: 11 Jul 2017 00:33

Tgt Ion:178 Resp: 25560  
 Ion Ratio Lower Upper  
 178 100  
 176 21.9 16.2 24.4  
 179 17.8 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: 8.55 ng

RT: 12.40 min Scan# 1753

Delta R.T. -0.02 min

Lab File: BF096621.D

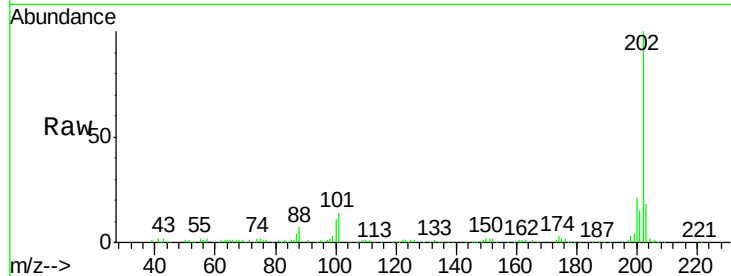
Acq: 11 Jul 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

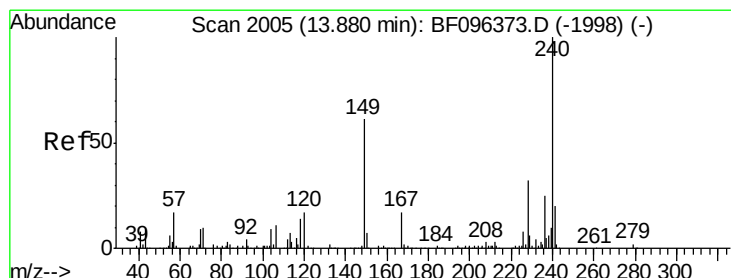
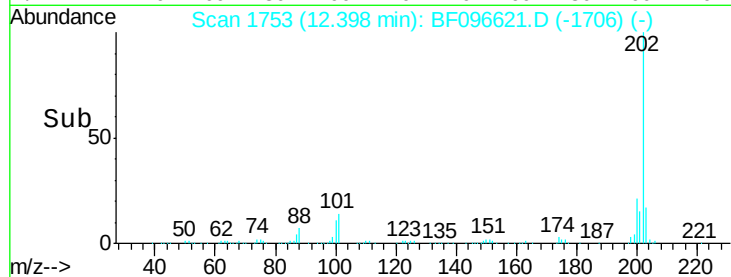
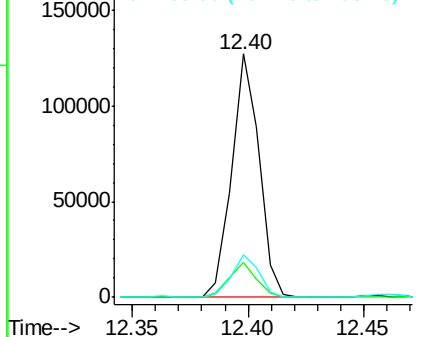
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 105339 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 14.3  | 0.0   | 33.2   |
| 203      | 17.6  | 0.0   | 38.1   |



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

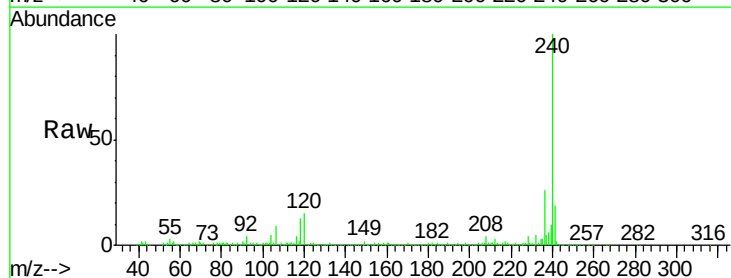
RT: 13.82 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF096621.D

Acq: 11 Jul 2017 00:33

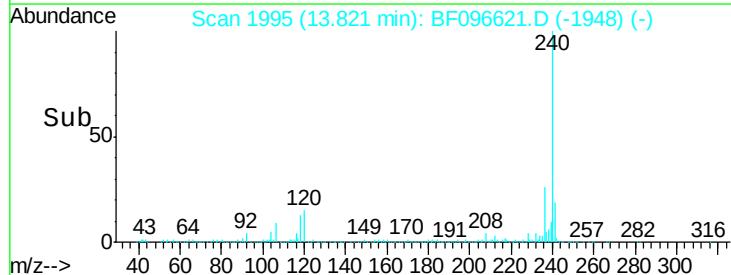
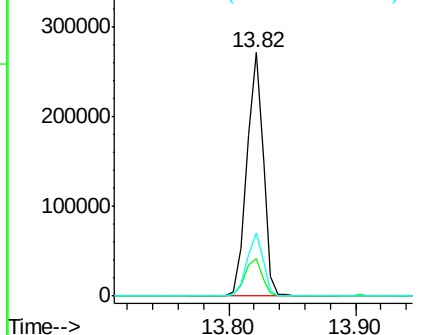
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 243464 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 15.2  | 5.8   | 8.8#   |
| 236      | 26.2  | 20.5  | 30.7   |

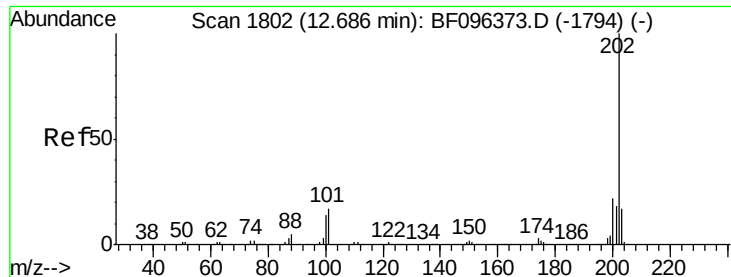


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 5.31 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.02 min

Lab File: BF096621.D

Acq: 11 Jul 2017 00:33

Instrument :

BNA\_F

ClientSampled :

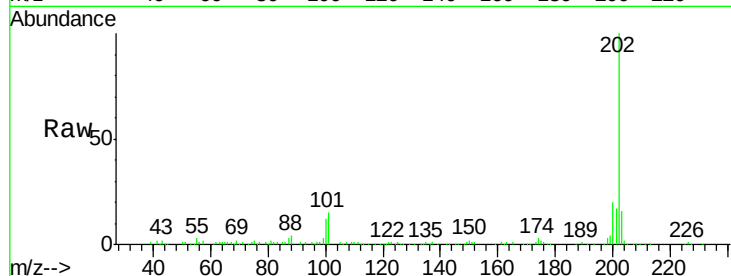
Tot Ion:202 Resp: 103859

Ion Ratio Lower Upper

202 100

200 20.4 17.6 26.4

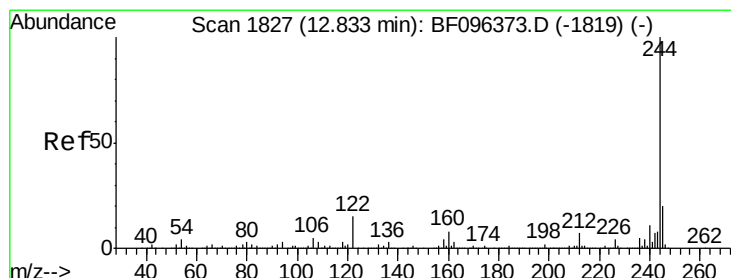
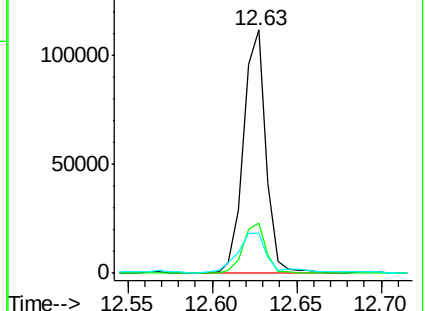
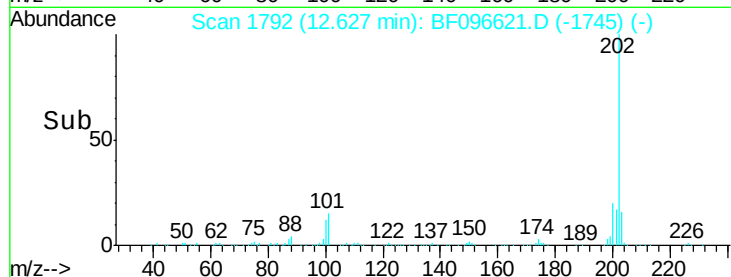
203 16.4 14.4 21.6



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: 38.83 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.02 min

Lab File: BF096621.D

Acq: 11 Jul 2017 00:33

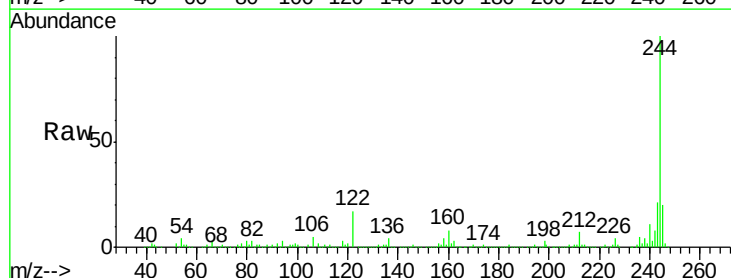
Tgt Ion:244 Resp: 442425

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

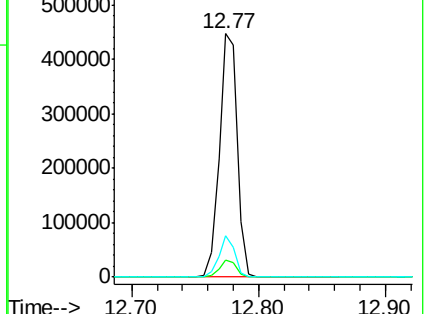
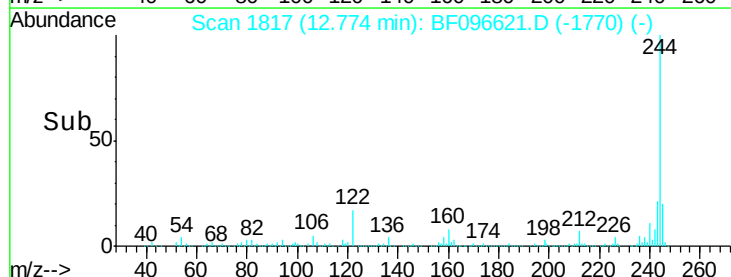
122 16.8 10.3 15.5#

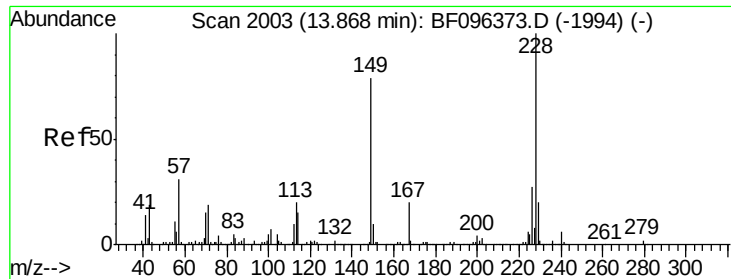


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

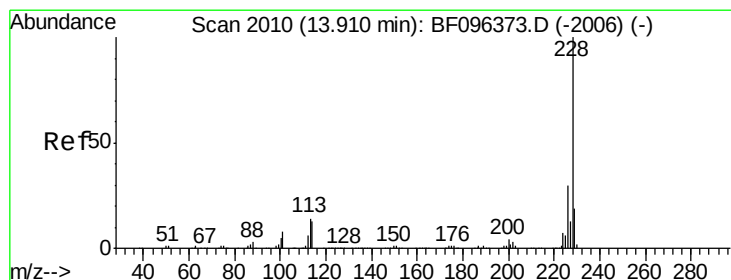
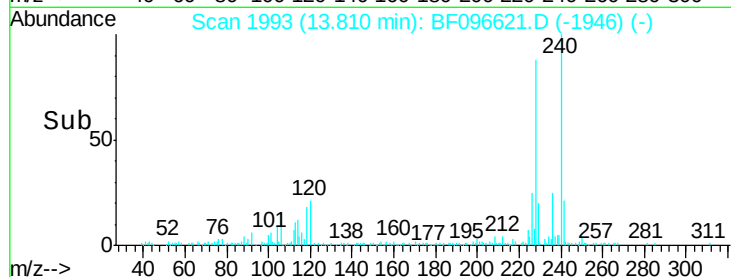
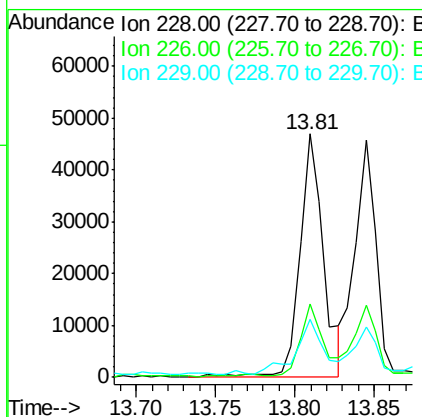
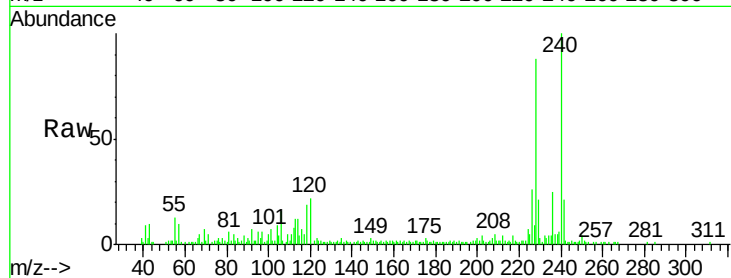




#80  
 Benzo(a)anthracene  
 Concen: 3.45 ng  
 RT: 13.81 min Scan# 1993  
 Delta R.T. -0.02 min  
 Lab File: BF096621.D  
 Acq: 11 Jul 2017 00:33

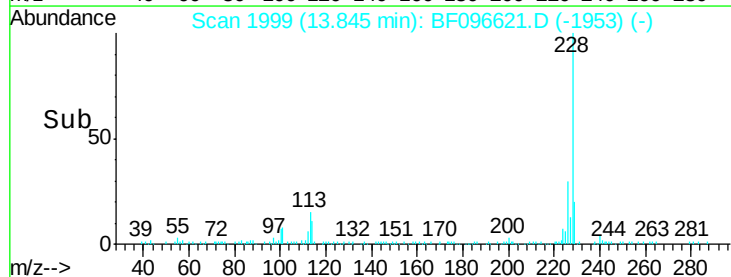
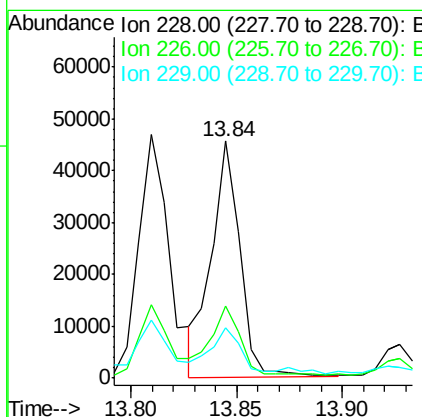
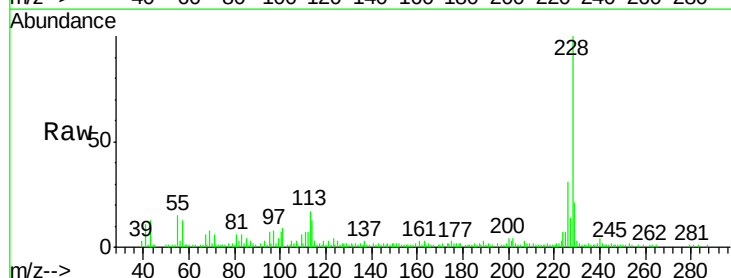
Instrument :  
 BNA\_F  
 ClientSampleId :

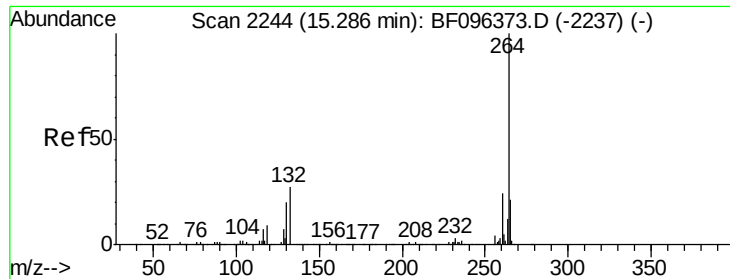
|             |       |       |      |
|-------------|-------|-------|------|
| Tot Ion:228 | Resp: | 48629 |      |
| Ion Ratio   | Lower | Upper |      |
| 228         | 100   |       |      |
| 226         | 29.9  | 22.6  | 33.8 |
| 229         | 24.0  | 16.3  | 24.5 |



#82  
 Chrysene  
 Concen: 2.92 ng  
 RT: 13.84 min Scan# 1999  
 Delta R.T. -0.03 min  
 Lab File: BF096621.D  
 Acq: 11 Jul 2017 00:33

|         |       |             |             |
|---------|-------|-------------|-------------|
| Tgt Ion | 228   | Resp: Lower | 43138 Upper |
|         | Ratio |             |             |
| 228     | 100   |             |             |
| 226     | 30.6  | 24.9        | 37.3        |
| 229     | 21.3  | 15.8        | 23.6        |

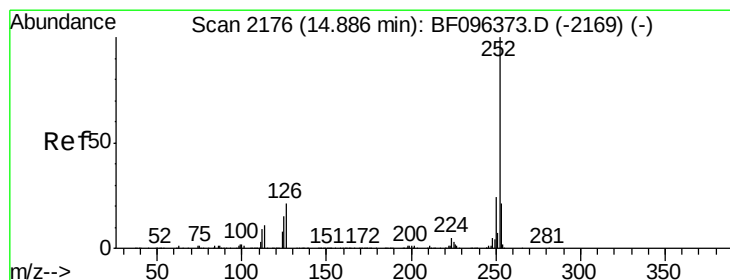
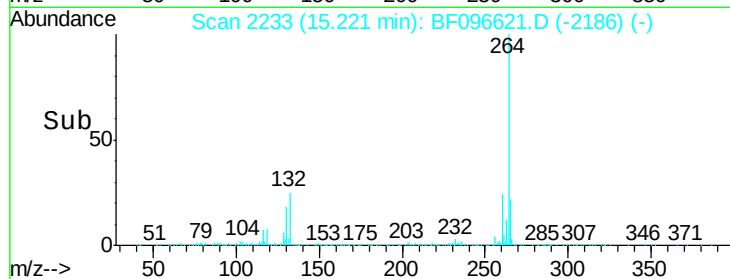
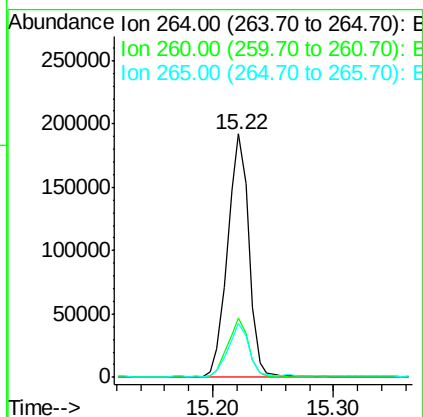
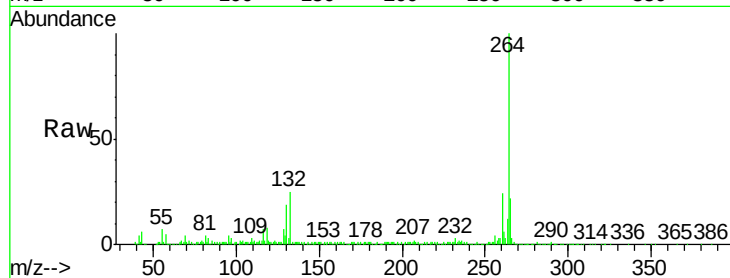




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.22 min Scan# 2233  
Delta R.T. -0.02 min  
Lab File: BF096621.D  
Acq: 11 Jul 2017 00:33

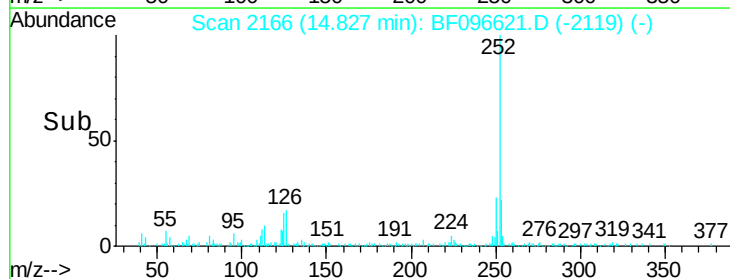
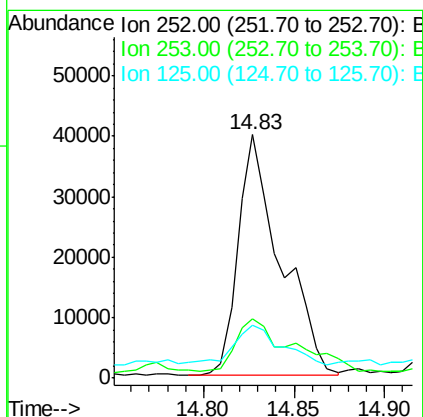
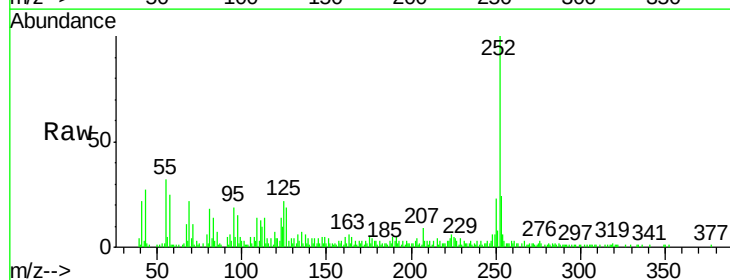
Instrument :  
BNA\_F  
ClientSampled :

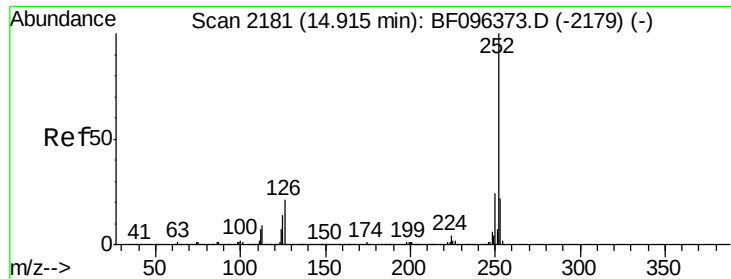
Tot Ion:264 Resp: 235140  
Ion Ratio Lower Upper  
264 100  
260 24.4 19.5 29.3  
265 22.1 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 4.41 ng  
RT: 14.83 min Scan# 2166  
Delta R.T. -0.02 min  
Lab File: BF096621.D  
Acq: 11 Jul 2017 00:33

Tgt Ion:252 Resp: 64922  
Ion Ratio Lower Upper  
252 100  
253 24.2 18.1 27.1  
125 21.8 9.8 14.8#





#88

Benzo(k)fluoranthene

Concen: 4.93 ng

RT: 14.83 min Scan# 2166

Delta R.T. -0.05 min

Lab File: BF096621.D

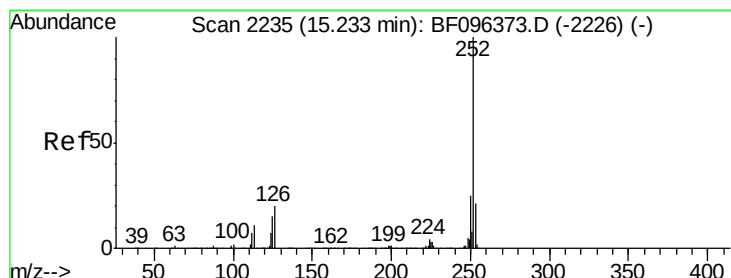
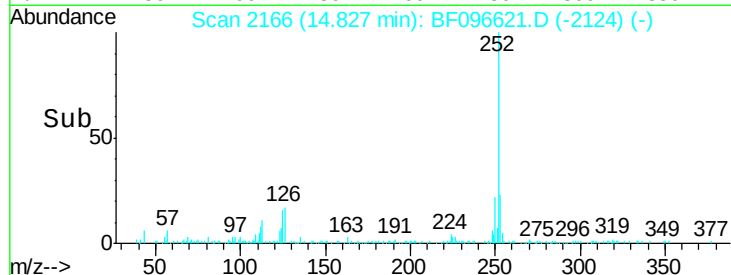
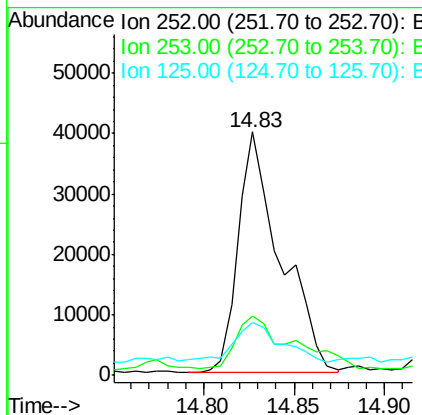
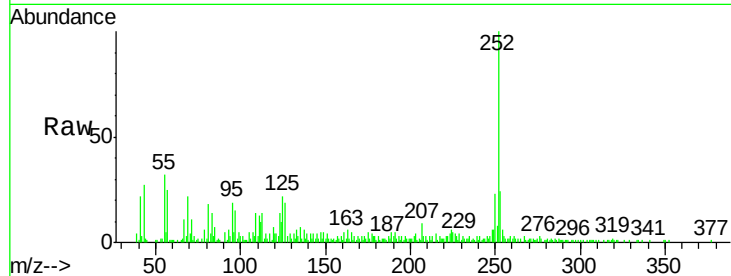
Acq: 11 Jul 2017 00:33

Instrument :

BNA\_F

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:252 | Resp: | 64922      |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 24.2  | 18.4 27.6  |
| 125         | 21.8  | 13.1 19.7# |



#89

Benzo(a)pyrene

Concen: 2.66 ng

RT: 15.16 min Scan# 2223

Delta R.T. -0.03 min

Lab File: BF096621.D

Acq: 11 Jul 2017 00:33

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:252 | Resp: | 34992      |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 24.2  | 17.5 26.3  |
| 125         | 22.1  | 11.0 16.4# |

