

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\  
 Data File : BF096006.D  
 Acq On : 19 Jun 2017 15:07  
 Operator : SJ/MA  
 Sample : I3683-01 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 19 16:40:17 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 16 17:12:03 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.30  | 152  | 93519    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 9.33  | 136  | 384748   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 12.16 | 164  | 164920   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 14.54 | 188  | 261194   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 18.27 | 240  | 162323   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 19.94 | 264  | 163594   | 20.00 | ng    | -0.02    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 5) 2-Fluorophenol           | 5.28  | 112 | 30765 | 5.24 | ng | 0.06  |
| 7) Phenol-d6                | 6.95  | 99  | 54057 | 7.69 | ng | 0.04  |
| 23) Nitrobenzene-d5         | 8.27  | 82  | 30945 | 5.00 | ng | 0.02  |
| 41) 2,4,6-Tribromophenol    | 13.47 | 330 | 8393  | 5.75 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 11.12 | 172 | 83347 | 7.03 | ng | -0.02 |
| 78) Terphenyl-d14           | 16.93 | 244 | 51516 | 7.88 | ng | -0.02 |

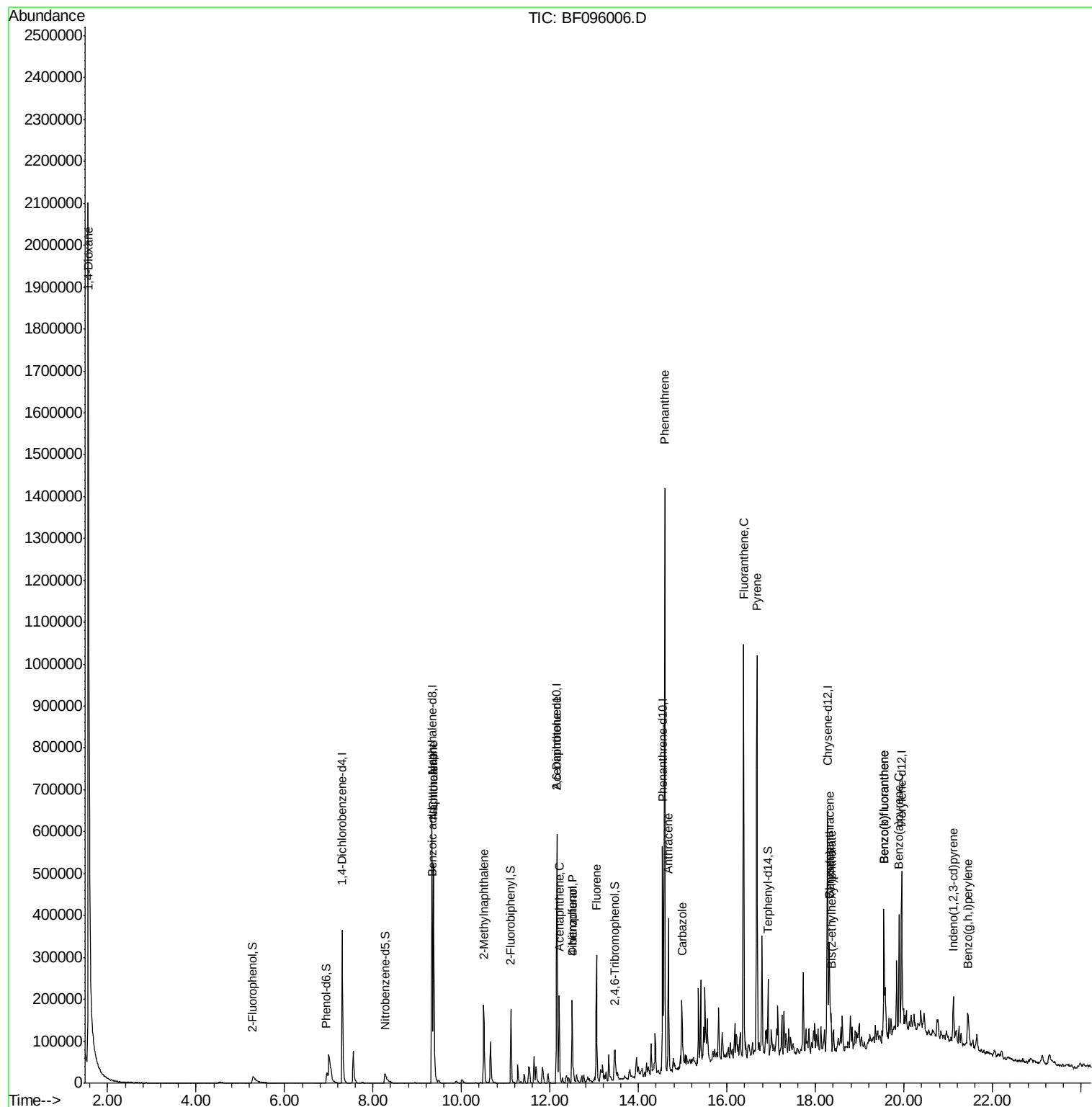
|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 2) 1,4-Dioxane                 | 1.56  | 88  | 112075 | 40.14 | ng | # 23   |
| 31) Naphthalene                | 9.37  | 128 | 389032 | 20.15 | ng | 99     |
| 32) Benzoic acid               | 9.32  | 122 | 375    | 5.22  | ng | # 1    |
| 33) 4-Chloroaniline            | 9.37  | 127 | 49258  | 6.53  | ng | # 28   |
| 37) 2-Methylnaphthalene        | 10.50 | 142 | 84469  | 6.47  | ng | 98     |
| 50) 2,6-Dinitrotoluene         | 12.15 | 165 | 20788  | 7.61  | ng | # 31   |
| 51) Acenaphthene               | 12.20 | 154 | 69633  | 6.64  | ng | 99     |
| 54) Dibenzofuran               | 12.50 | 168 | 132792 | 9.00  | ng | 96     |
| 55) 4-Nitrophenol              | 12.50 | 139 | 46633  | 28.27 | ng | # 27   |
| 57) Fluorene                   | 13.05 | 166 | 124618 | 9.70  | ng | 99     |
| 70) Phenanthrene               | 14.59 | 178 | 781718 | 51.87 | ng | 98     |
| 71) Anthracene                 | 14.67 | 178 | 214486 | 13.63 | ng | 95     |
| 72) Carbazole                  | 14.98 | 167 | 114275 | 7.45  | ng | 97     |
| 74) Fluoranthene               | 16.37 | 202 | 509452 | 34.15 | ng | 99     |
| 77) Pyrene                     | 16.67 | 202 | 417328 | 34.46 | ng | # 95   |
| 80) Benzo(a)anthracene         | 18.31 | 228 | 135627 | 14.37 | ng | 99     |
| 82) Chrysene                   | 18.31 | 228 | 135627 | 14.38 | ng | 96     |
| 83) Bis(2-ethylhexyl)phthalate | 18.35 | 149 | 26926  | 3.61  | ng | # 96   |
| 85) Indeno(1,2,3-cd)pyrene     | 21.12 | 276 | 66418  | 8.23  | ng | 94     |
| 87) Benzo(b)fluoranthene       | 19.54 | 252 | 202833 | 19.80 | ng | # 96   |
| 88) Benzo(k)fluoranthene       | 19.54 | 252 | 202833 | 20.72 | ng | 98     |
| 89) Benzo(a)pyrene             | 19.89 | 252 | 120032 | 12.75 | ng | 97     |
| 91) Benzo(g,h,i)perylene       | 21.44 | 276 | 59511  | 7.31  | ng | 98     |

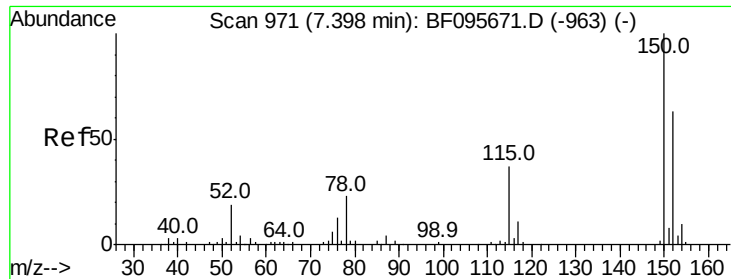
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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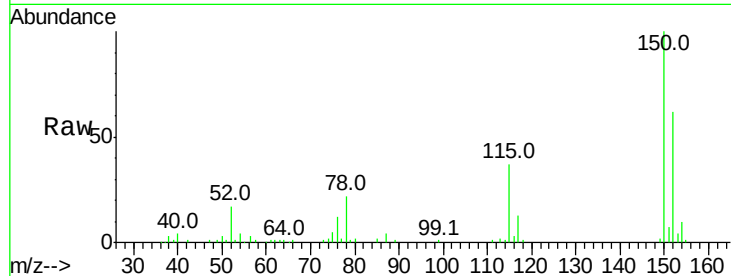


#1

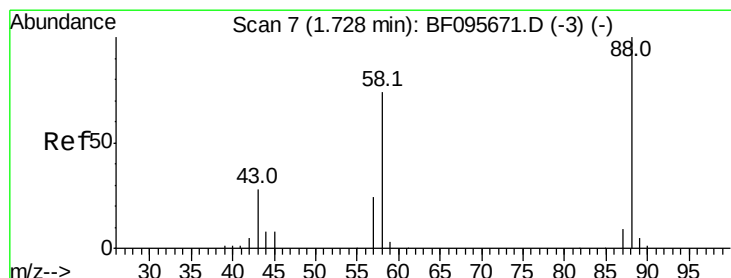
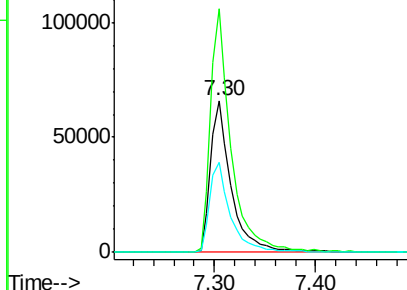
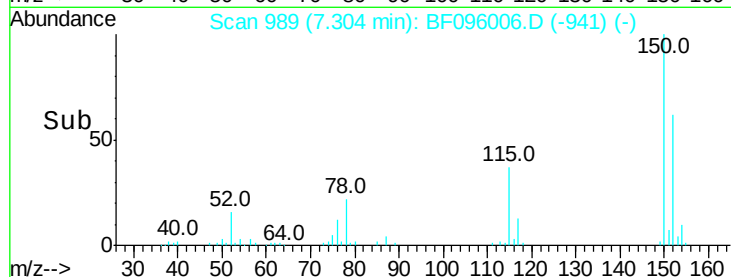
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.30 min Scan# 989  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 93519  
Ion Ratio Lower Upper  
152 100  
150 160.6 126.2 189.2  
115 59.7 52.2 78.2



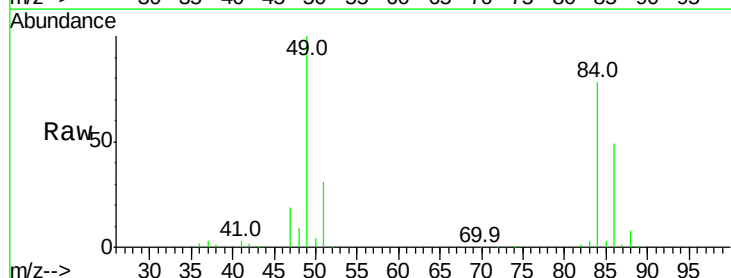
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



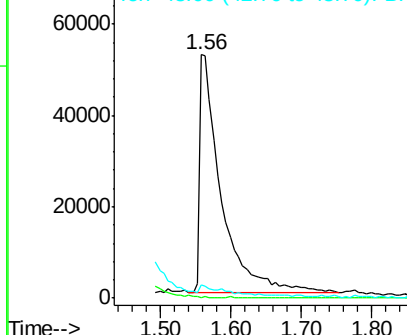
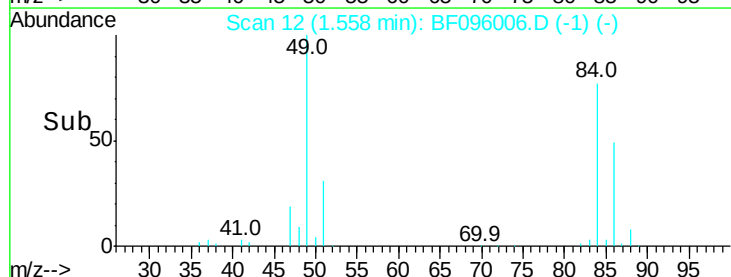
#2

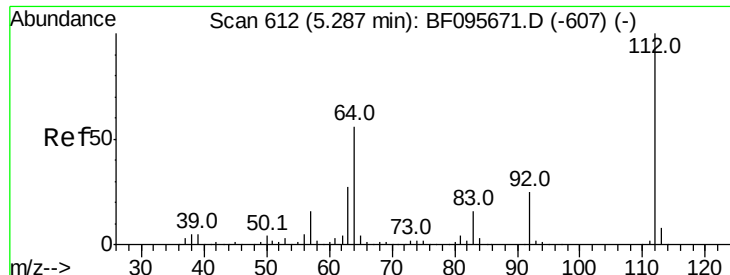
1,4-Dioxane  
Concen: 40.14 ng  
RT: 1.56 min Scan# 12  
Delta R.T. -0.08 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

Tgt Ion: 88 Resp: 112075  
Ion Ratio Lower Upper  
88 100  
58 0.0 61.4 92.0#  
43 4.5 23.4 35.0#



Abundance Ion 88.00 (87.70 to 88.70): BF0  
Ion 58.00 (57.70 to 58.70): BF0  
Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 5.24 ng

RT: 5.28 min Scan# 645

Delta R.T. 0.06 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

Instrument :

BNA\_F

ClientSampleId :

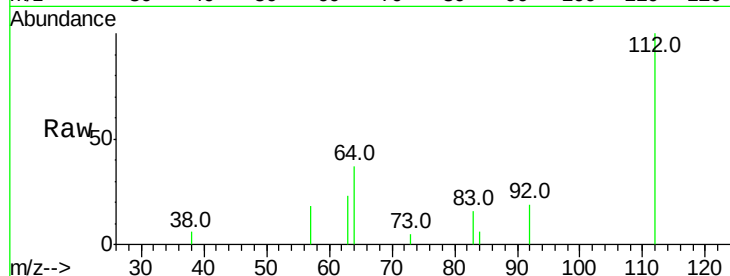
Tot Ion:112 Resp: 30765

Ion Ratio Lower Upper

112 100

64 37.1 46.0 69.0#

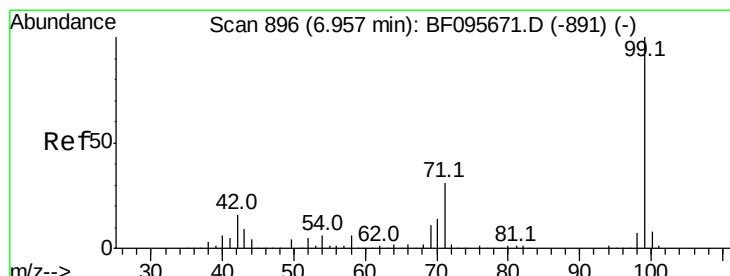
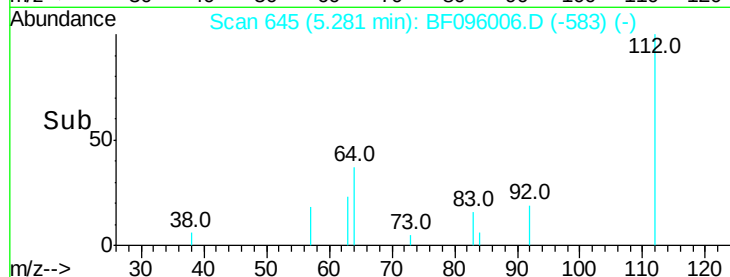
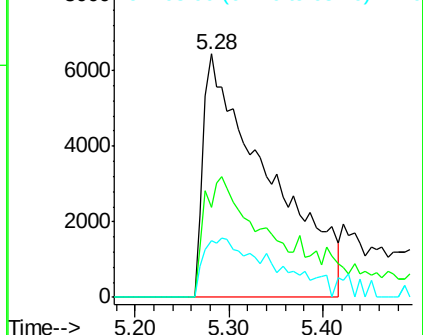
63 23.5 23.4 35.0



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: 7.69 ng

RT: 6.95 min Scan# 929

Delta R.T. 0.04 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

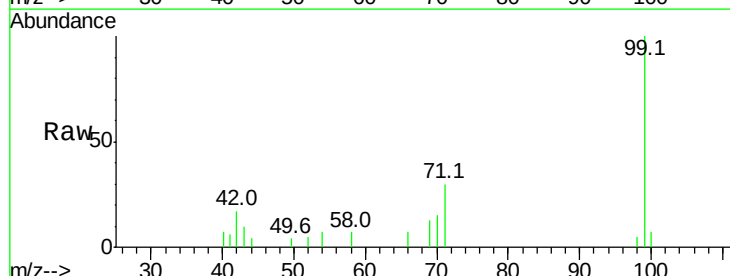
Tgt Ion: 99 Resp: 54057

Ion Ratio Lower Upper

99 100

42 17.1 13.5 20.3

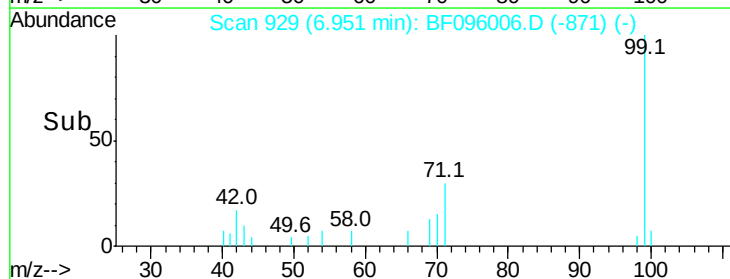
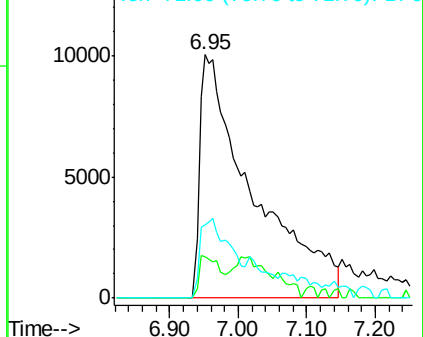
71 30.1 24.5 36.7

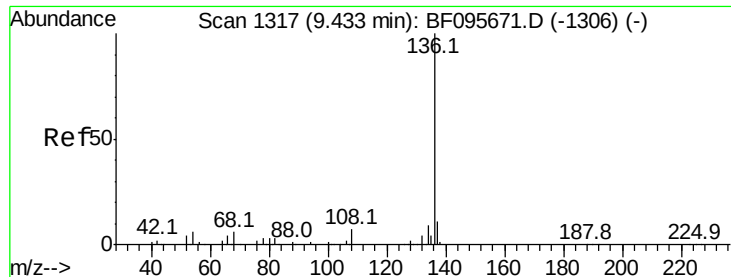


Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 9.33 min Scan# 1334

Delta R.T. -0.02 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 384748

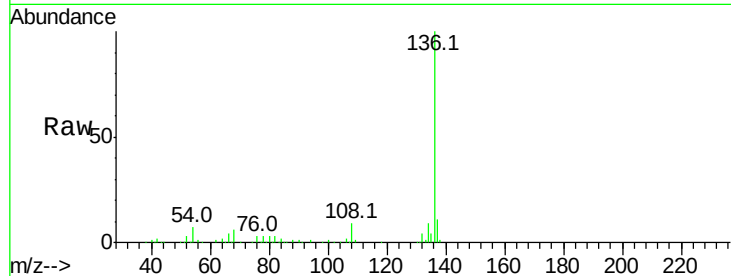
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 6.9 4.9 7.3

68 5.5 4.1 6.1

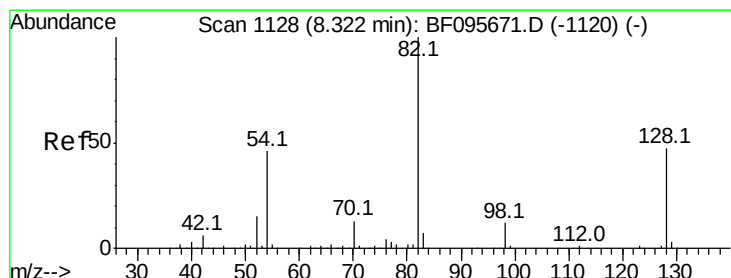
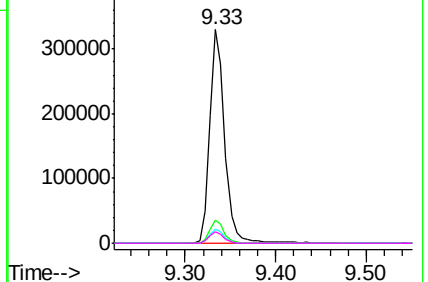
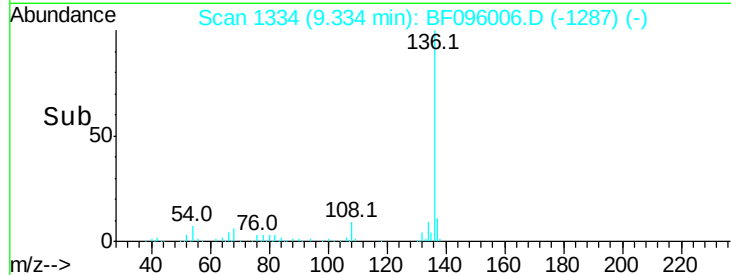


Abundance Ion 136.00 (135.70 to 136.70): E

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: 5.00 ng

RT: 8.27 min Scan# 1153

Delta R.T. 0.02 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

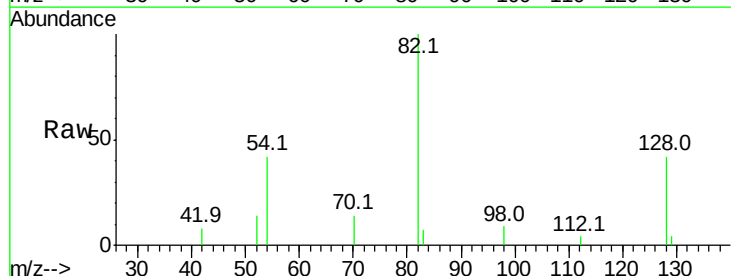
Tgt Ion: 82 Resp: 30945

Ion Ratio Lower Upper

82 100

128 41.8 34.0 51.0

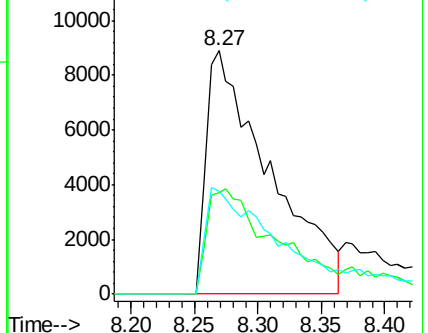
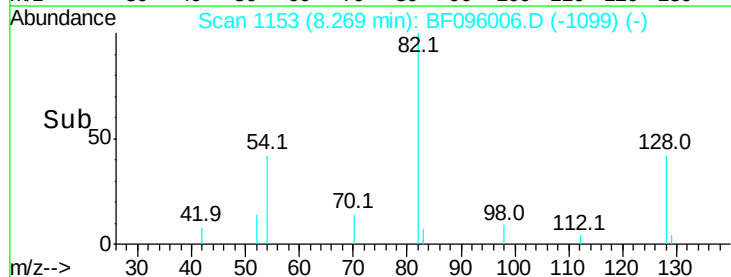
54 42.3 42.2 63.2

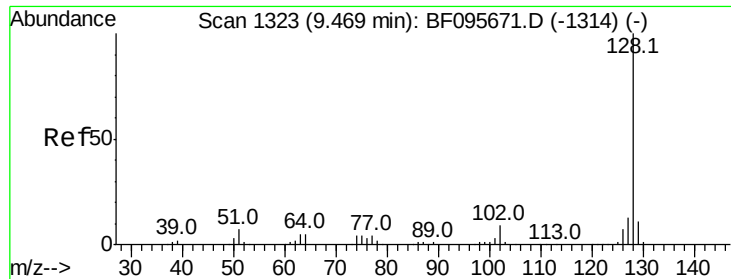


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 20.15 ng

RT: 9.37 min Scan# 1340

Delta R.T. -0.02 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

Instrument :

BNA\_F

ClientSampleId :

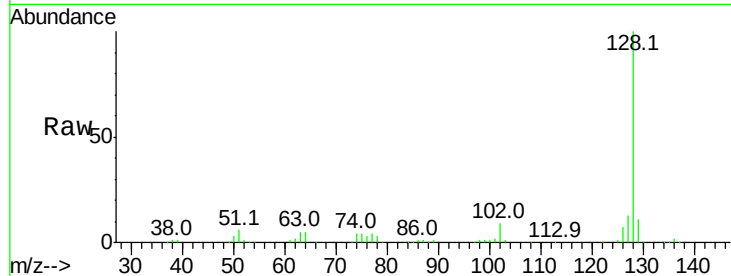
Tot Ion:128 Resp: 389032

Ion Ratio Lower Upper

128 100

129 11.5 9.0 13.6

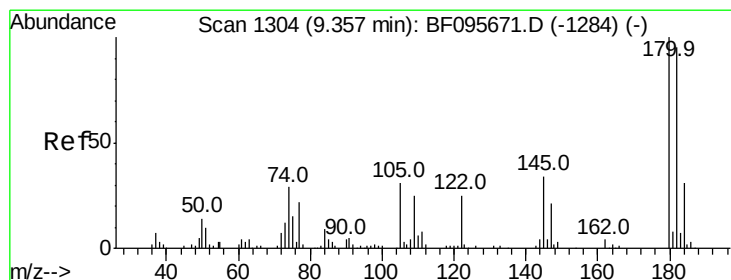
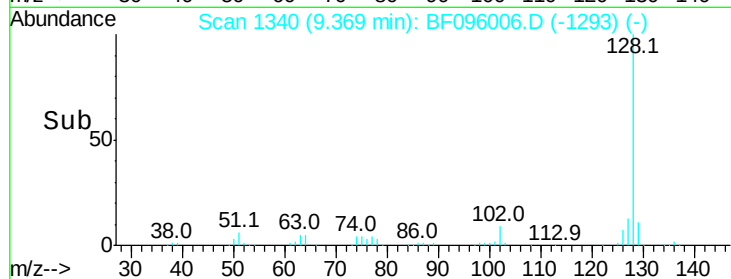
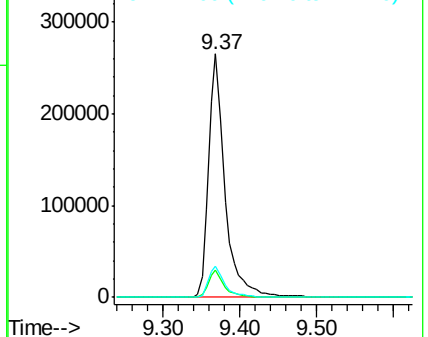
127 12.7 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 5.22 ng

RT: 9.32 min Scan# 1332

Delta R.T. -0.02 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

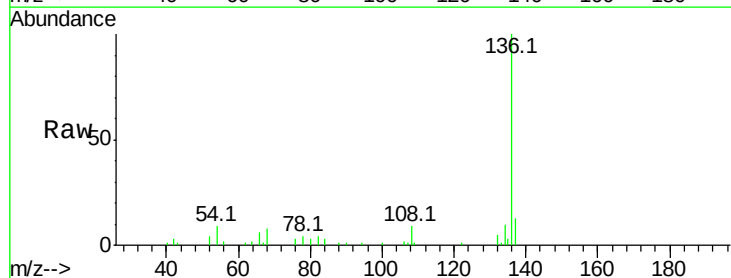
Tgt Ion:122 Resp: 375

Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

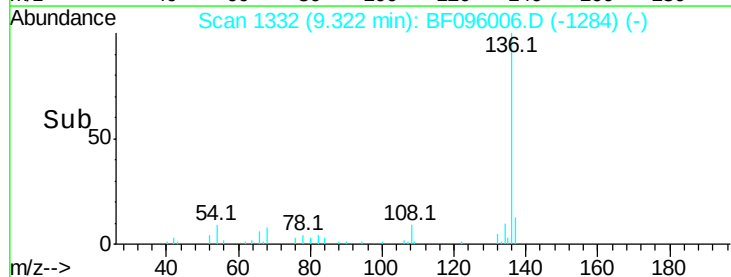
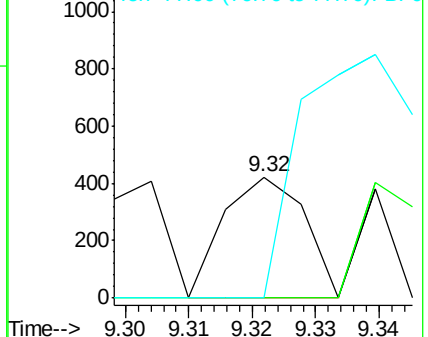
77 0.0 73.7 113.7#

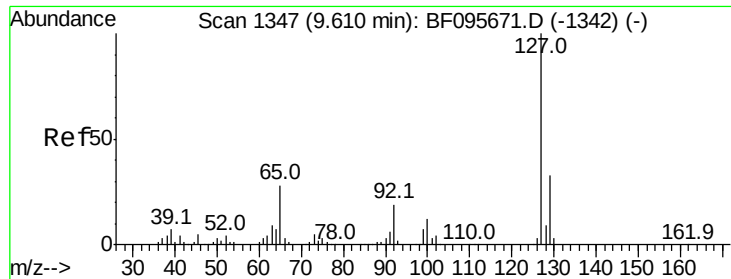


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

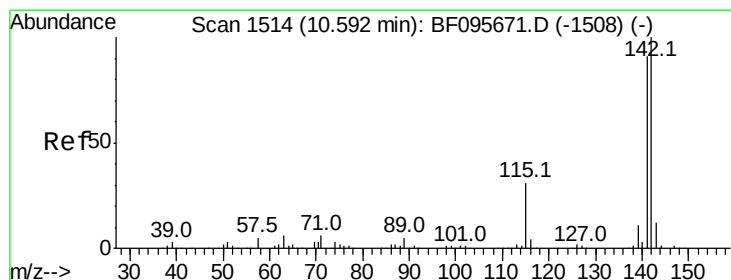
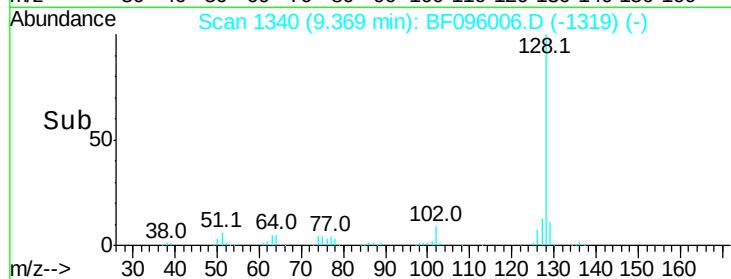
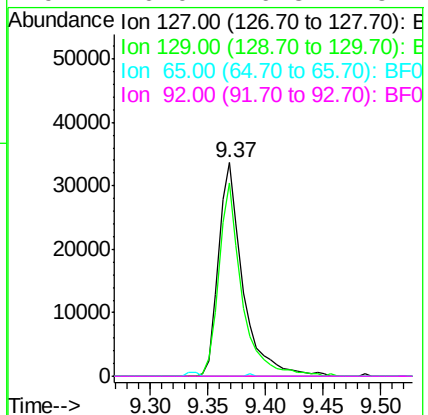
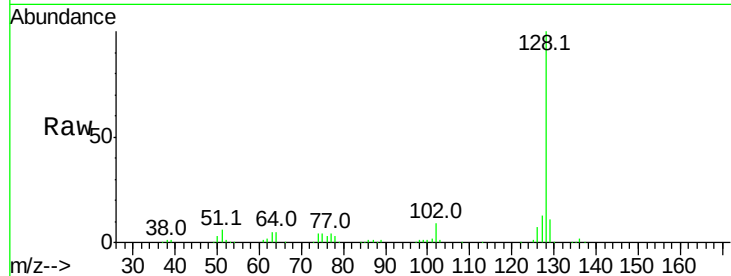




#33  
4-Chloroaniline  
Concen: 6.53 ng  
RT: 9.37 min Scan# 1340  
Delta R.T. -0.18 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

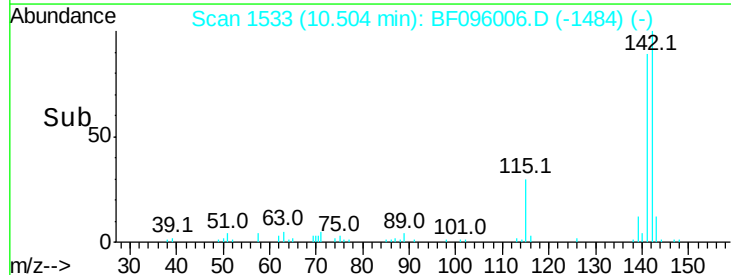
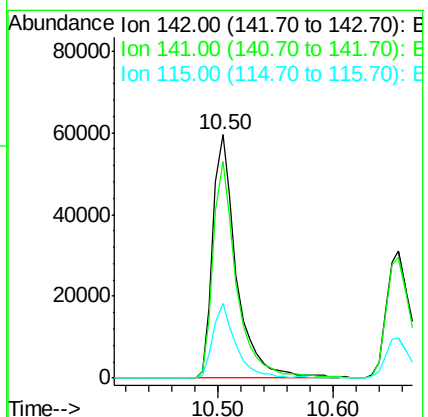
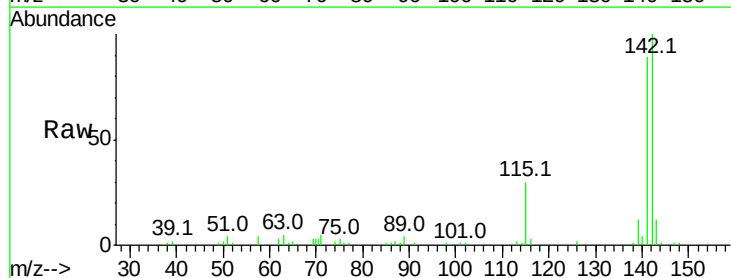
Instrument :  
BNA\_F  
ClientSampleId :

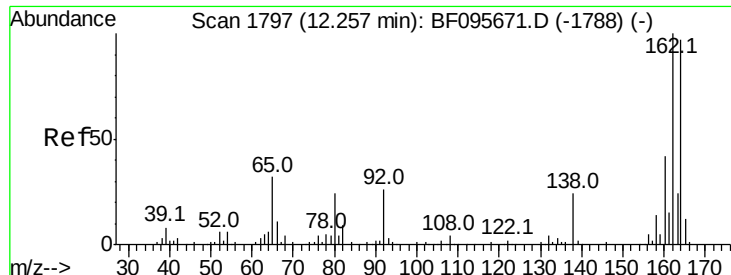
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 127   | Resp: | 49258 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 90.4  | 26.2  | 39.2# |
| 65       | 0.0   | 27.8  | 41.8# |
| 92       | 0.0   | 16.8  | 25.2# |



#37  
2-Methylnaphthalene  
Concen: 6.47 ng  
RT: 10.50 min Scan# 1533  
Delta R.T. -0.01 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 84469 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 88.8  | 71.3  | 106.9 |
| 115      | 30.4  | 27.1  | 40.7  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.16 min Scan# 1814

Delta R.T. -0.02 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

Instrument :

BNA\_F

ClientSampleId :

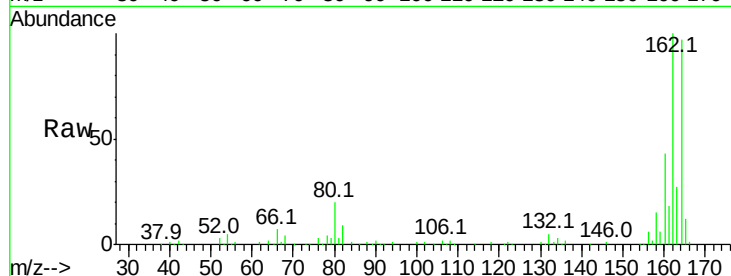
Tot Ion:164 Resp: 164920

Ion Ratio Lower Upper

164 100

162 102.7 82.6 123.8

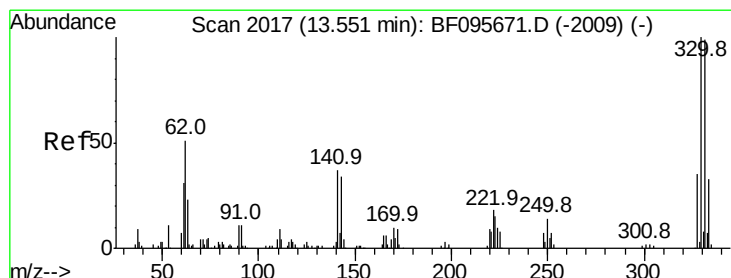
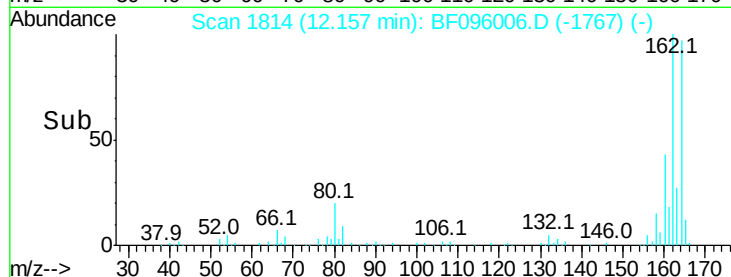
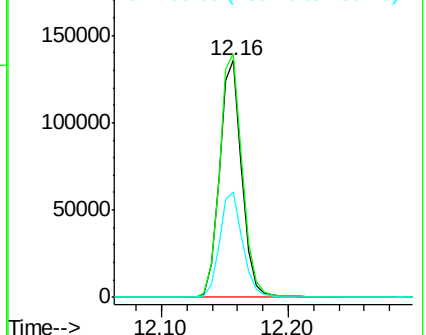
160 44.5 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 5.75 ng

RT: 13.47 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

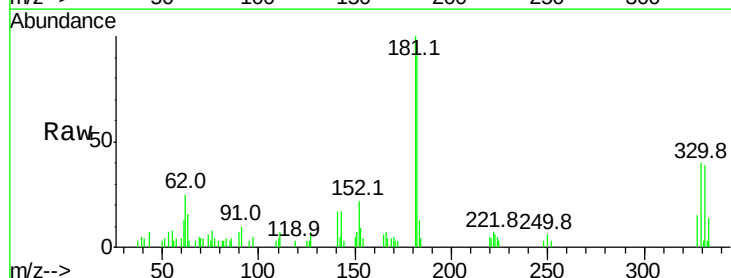
Tgt Ion:330 Resp: 8393

Ion Ratio Lower Upper

330 100

332 100.1 76.6 115.0

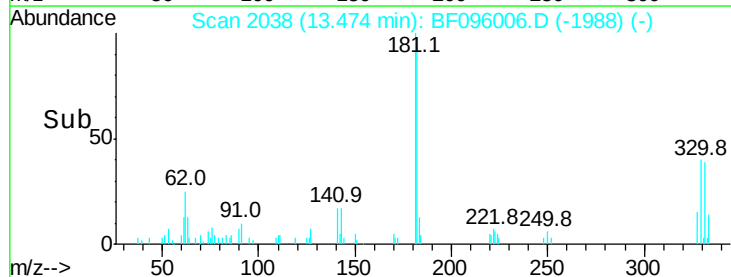
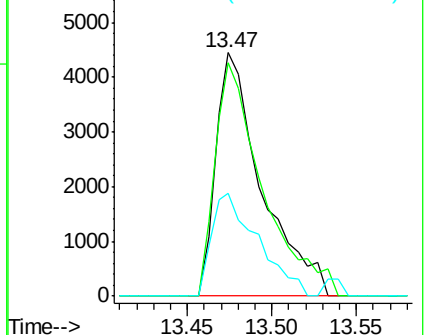
141 42.8 31.4 47.2



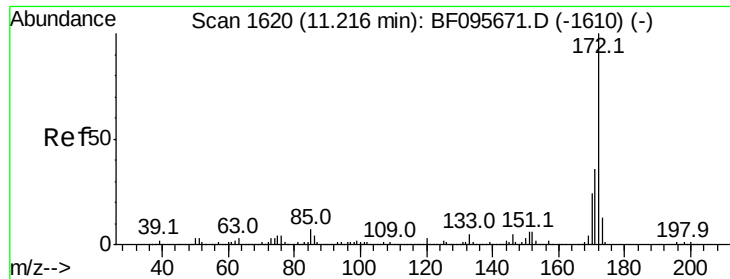
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



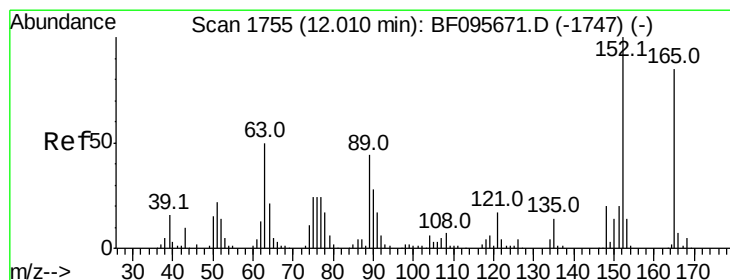
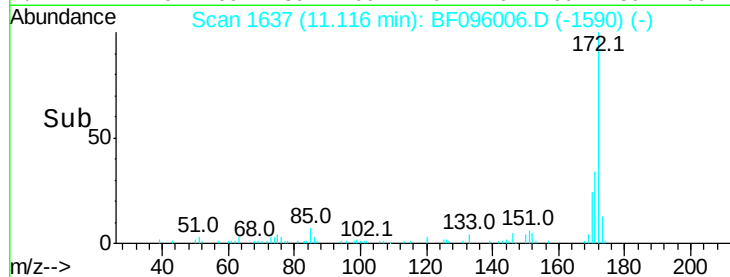
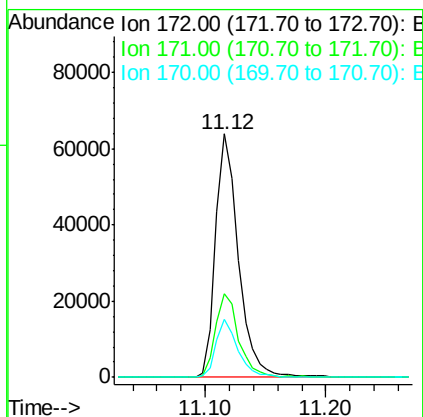
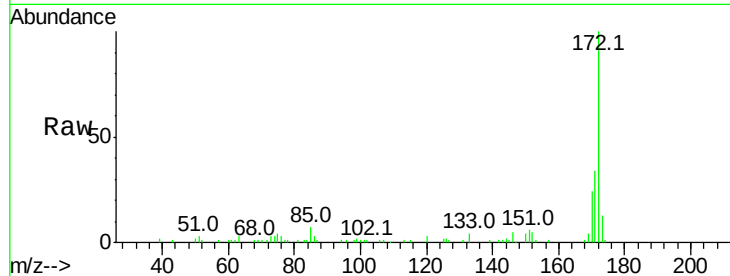




#44  
2-Fluorobiphenyl  
Concen: 7.03 ng  
RT: 11.12 min Scan# 1637  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

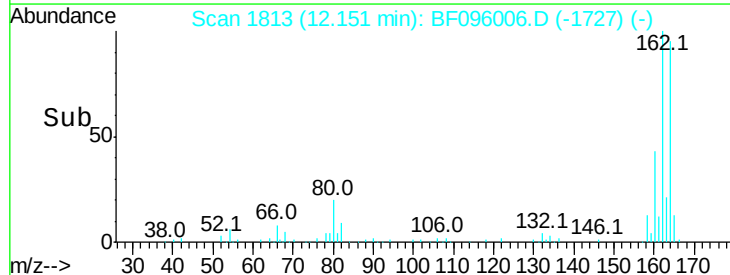
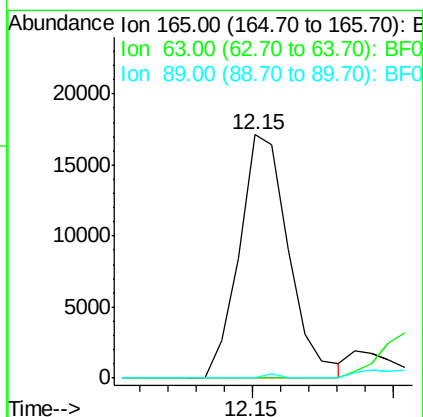
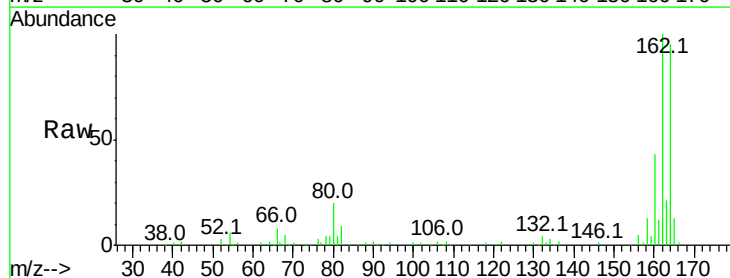
Instrument :  
BNA\_F  
ClientSampleId :

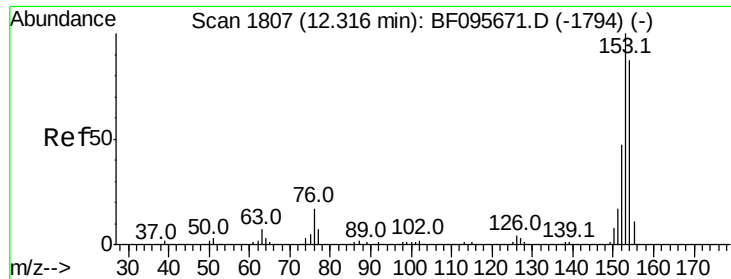
Tot Ion:172 Resp: 83347  
Ion Ratio Lower Upper  
172 100  
171 34.1 29.6 44.4  
170 23.7 19.8 29.8



#50  
2,6-Dinitrotoluene  
Concen: 7.61 ng  
RT: 12.15 min Scan# 1813  
Delta R.T. 0.21 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

Tgt Ion:165 Resp: 20788  
Ion Ratio Lower Upper  
165 100  
63 0.0 34.3 51.5#  
89 0.0 37.1 55.7#

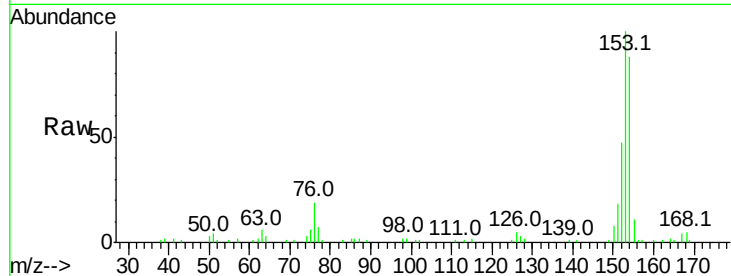




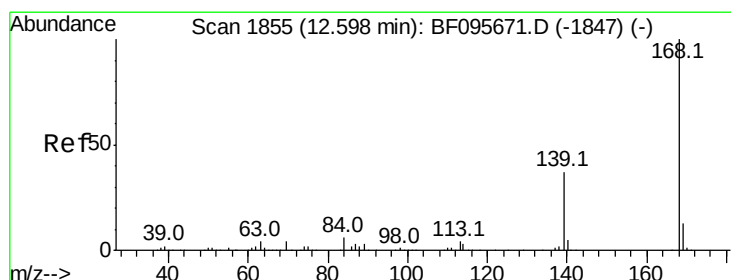
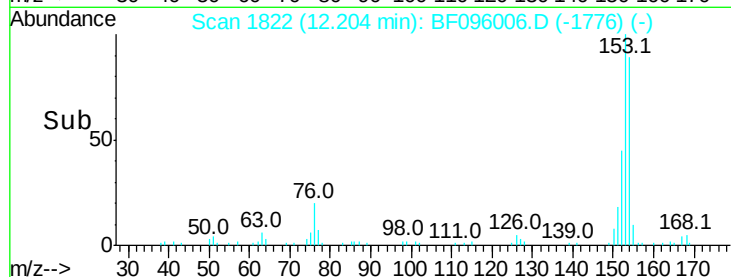
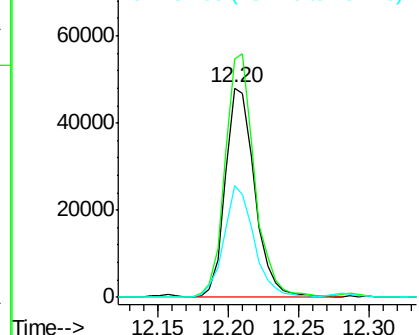
#51  
Acenaphthene  
Concen: 6.64 ng  
RT: 12.20 min Scan# 1822  
Delta R.T. -0.03 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:154 Resp: 69633  
Ion Ratio Lower Upper  
154 100  
153 113.8 90.5 135.7  
152 53.3 43.6 65.4

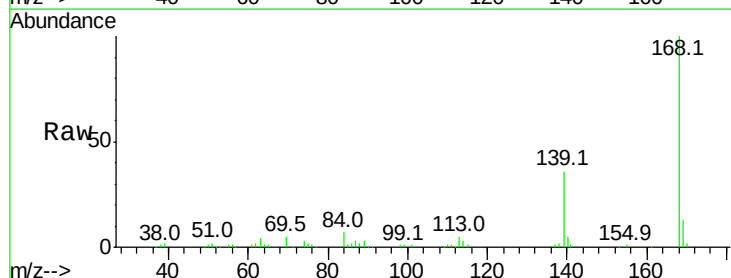


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

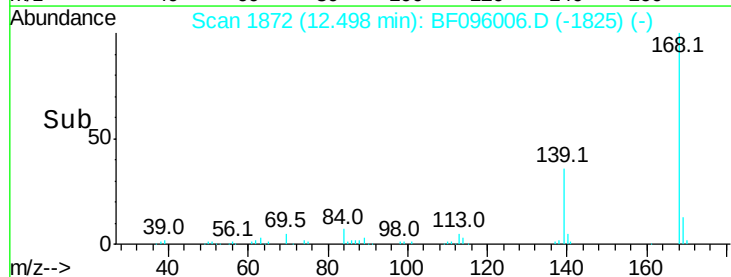
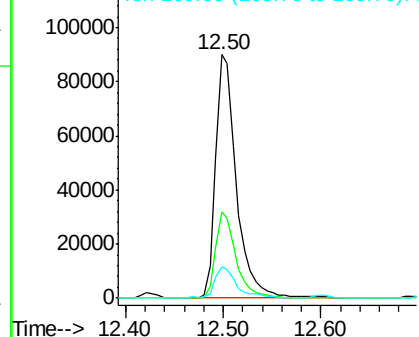


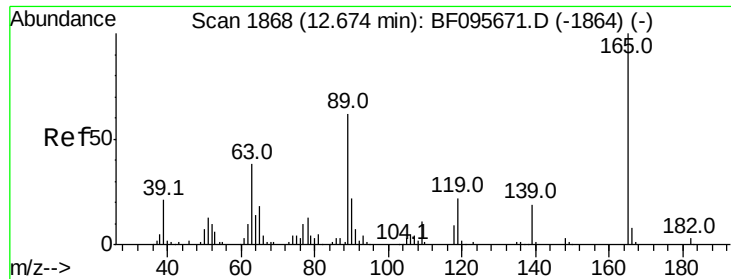
#54  
Dibenzofuran  
Concen: 9.00 ng  
RT: 12.50 min Scan# 1872  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

Tgt Ion:168 Resp: 132792  
Ion Ratio Lower Upper  
168 100  
139 35.5 30.6 45.8  
169 12.6 10.8 16.2



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 28.27 ng

RT: 12.50 min Scan# 1872

Delta R.T. -0.15 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

Instrument :

BNA\_F

ClientSampleId :

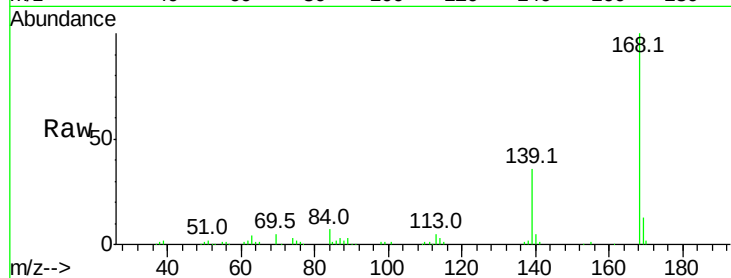
Tot Ion:139 Resp: 46633

Ion Ratio Lower Upper

139 100

109 1.2 34.1 74.1#

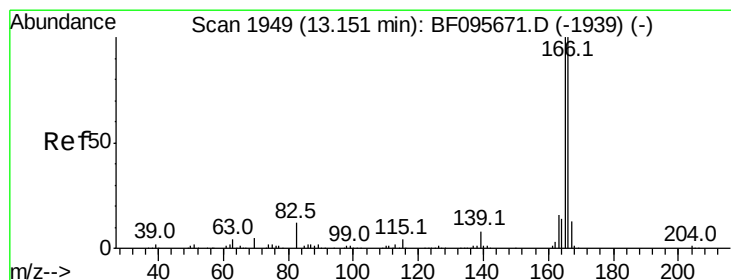
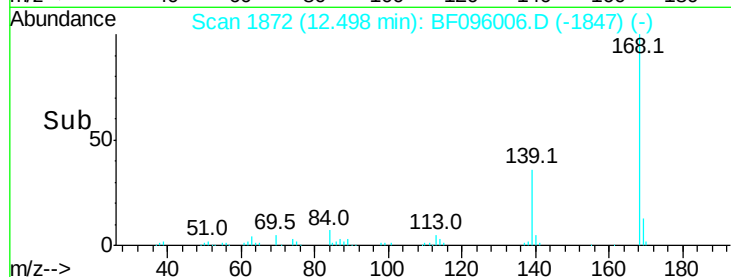
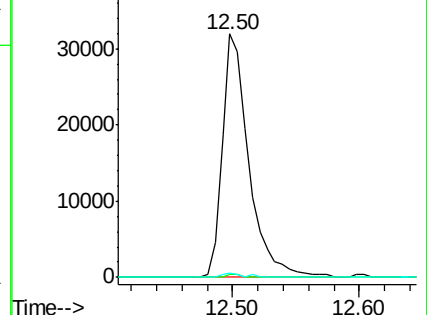
65 1.5 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): E



#57

Fluorene

Concen: 9.70 ng

RT: 13.05 min Scan# 1965

Delta R.T. -0.03 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

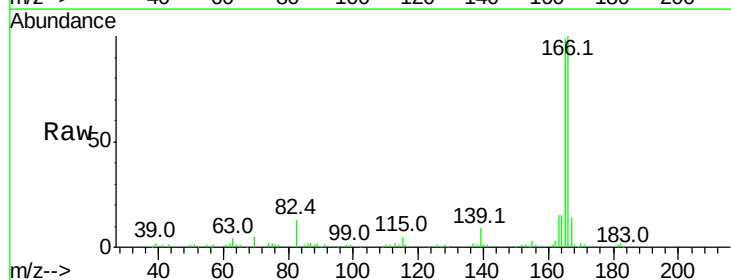
Tgt Ion:166 Resp: 124618

Ion Ratio Lower Upper

166 100

165 99.0 78.8 118.2

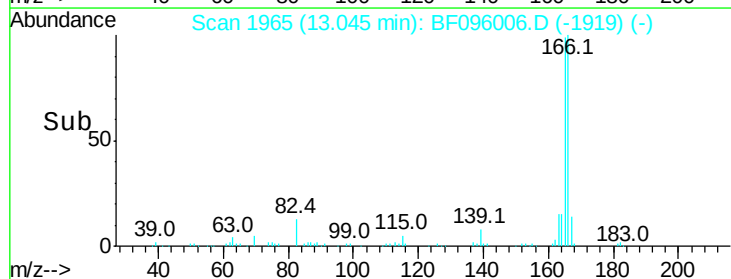
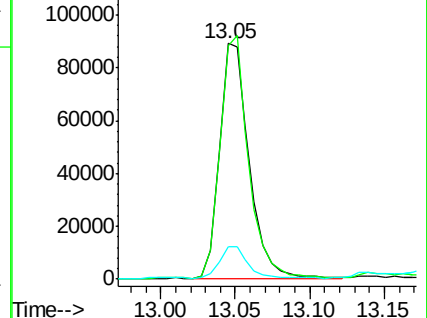
167 13.8 10.6 16.0

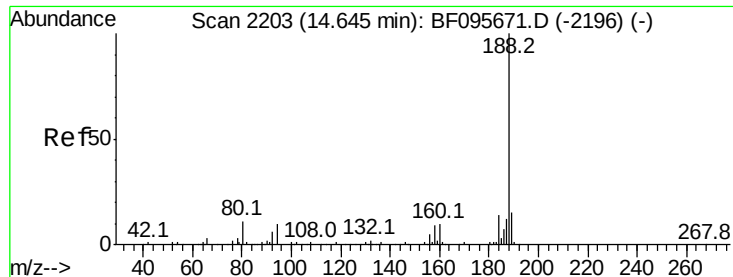


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

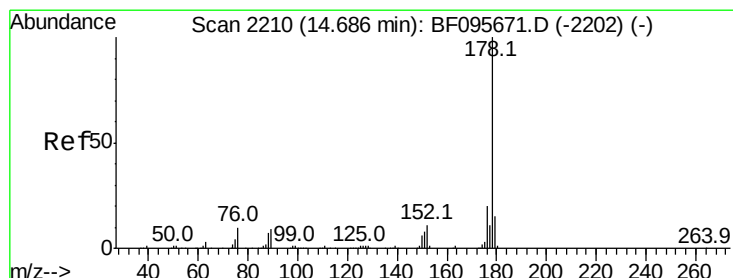
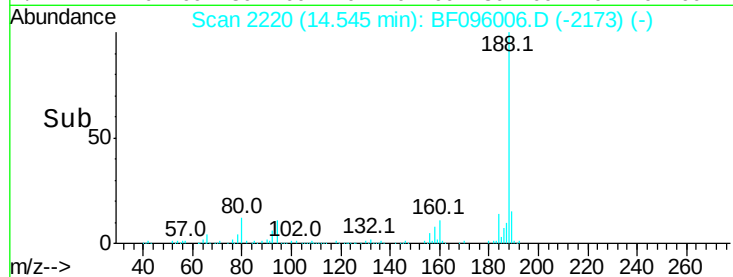
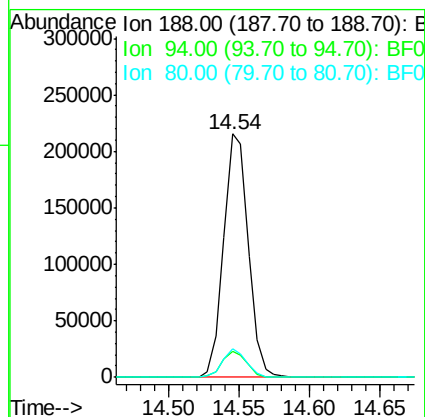
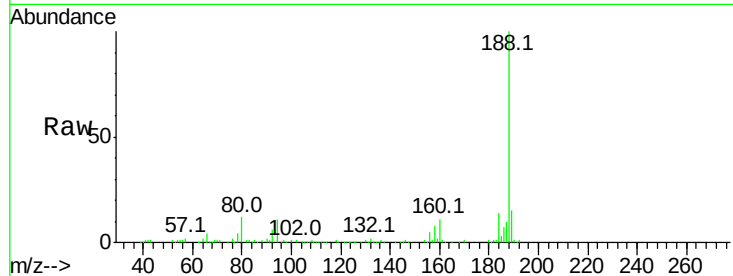




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 14.54 min Scan# 2220  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

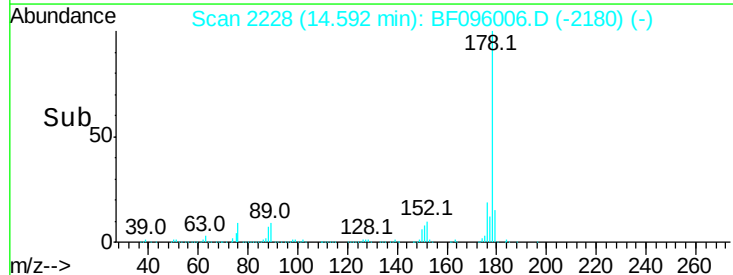
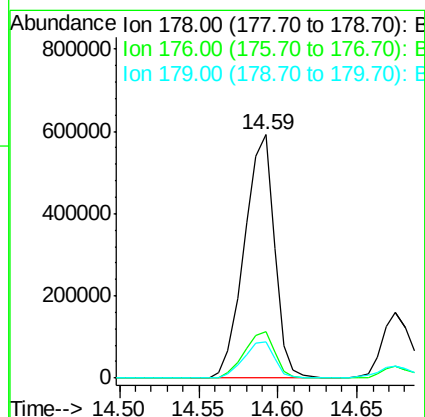
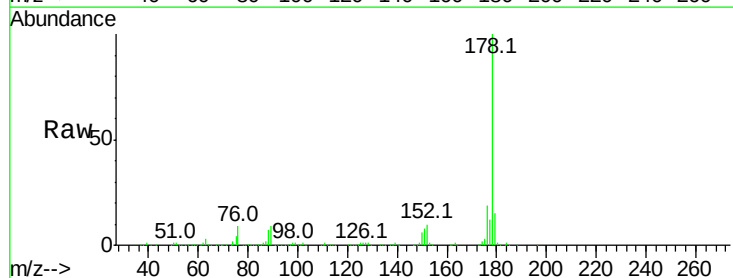
Instrument :  
BNA\_F  
ClientSampled :

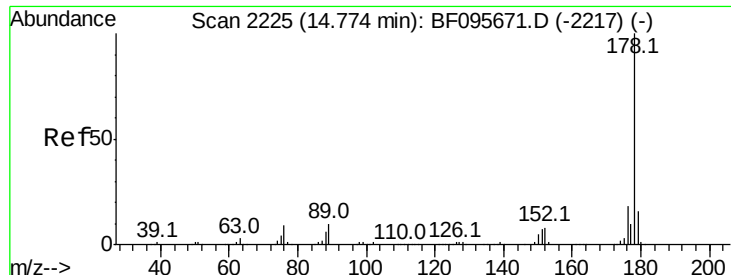
Tot Ion:188 Resp: 261194  
Ion Ratio Lower Upper  
188 100  
94 10.8 9.4 14.2  
80 11.9 10.2 15.2



#70  
Phenanthrene  
Concen: 51.87 ng  
RT: 14.59 min Scan# 2228  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

Tgt Ion:178 Resp: 781718  
Ion Ratio Lower Upper  
178 100  
176 19.1 16.2 24.4  
179 15.0 12.6 19.0

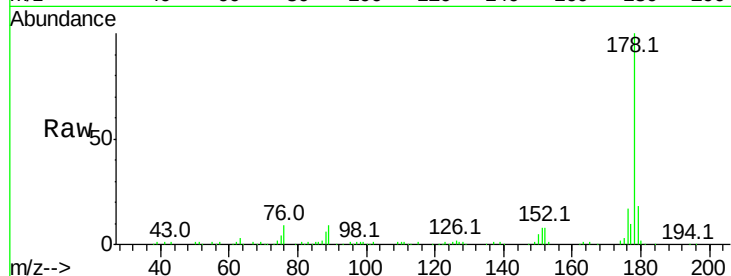




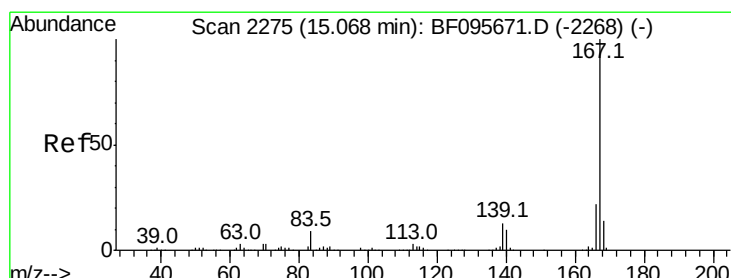
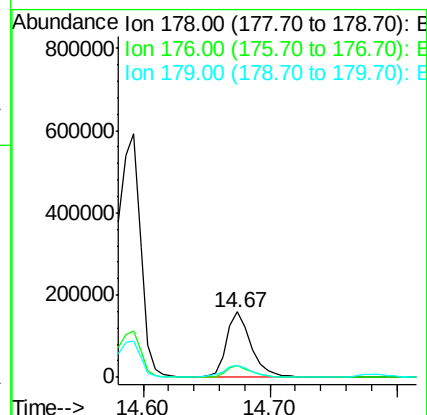
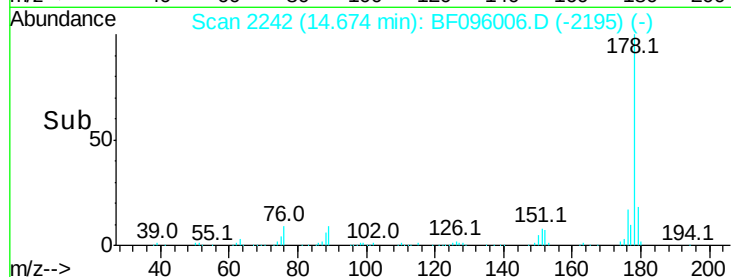
#71  
 Anthracene  
 Concen: 13.63 ng  
 RT: 14.67 min Scan# 2242  
 Delta R.T. -0.02 min  
 Lab File: BF096006.D  
 Acq: 19 Jun 2017 15:07

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:178 Resp: 214486  
 Ion Ratio Lower Upper  
 178 100  
 176 17.3 15.8 23.8  
 179 18.2 12.7 19.1

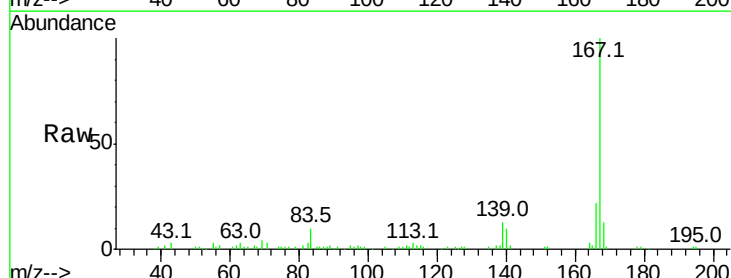


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

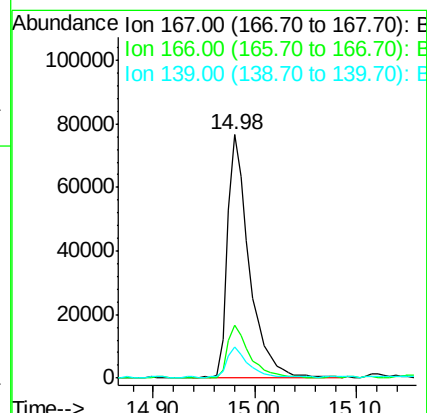
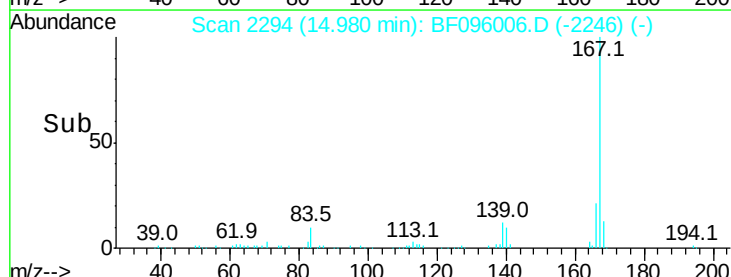


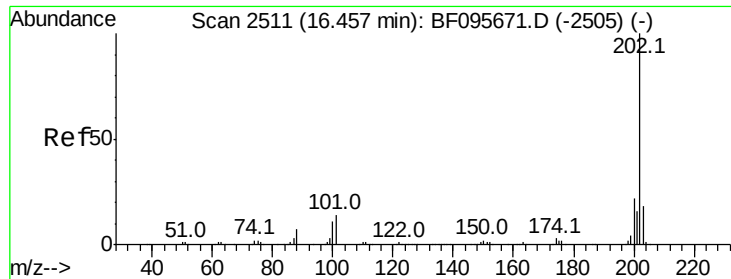
#72  
 Carbazole  
 Concen: 7.45 ng  
 RT: 14.98 min Scan# 2294  
 Delta R.T. -0.02 min  
 Lab File: BF096006.D  
 Acq: 19 Jun 2017 15:07

Tgt Ion:167 Resp: 114275  
 Ion Ratio Lower Upper  
 167 100  
 166 21.9 18.1 27.1  
 139 12.9 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

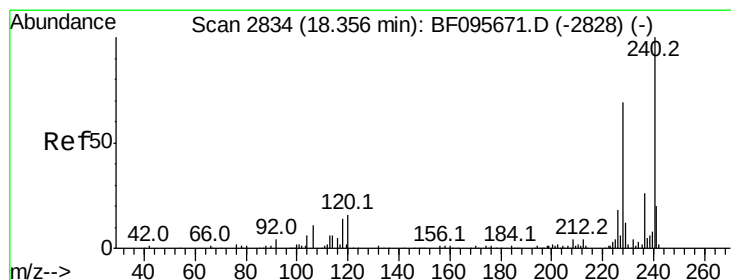
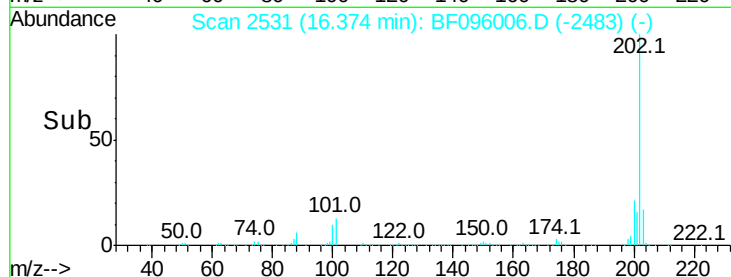
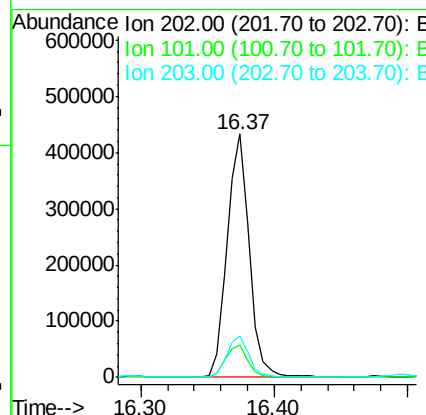
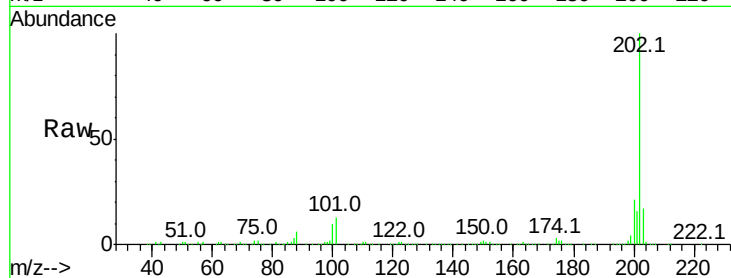




#74  
Fluoranthene  
Concen: 34.15 ng  
RT: 16.37 min Scan# 2531  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

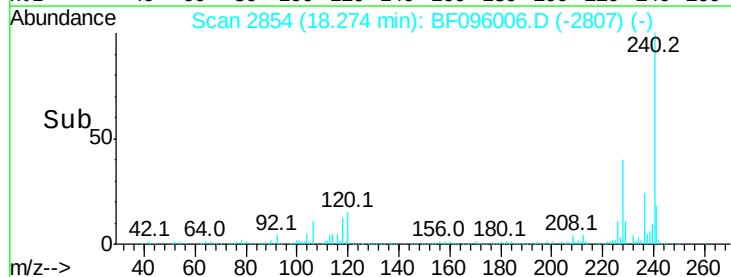
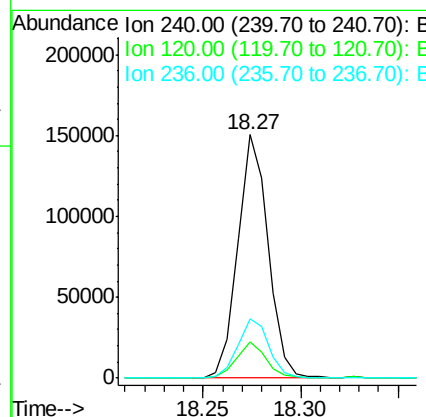
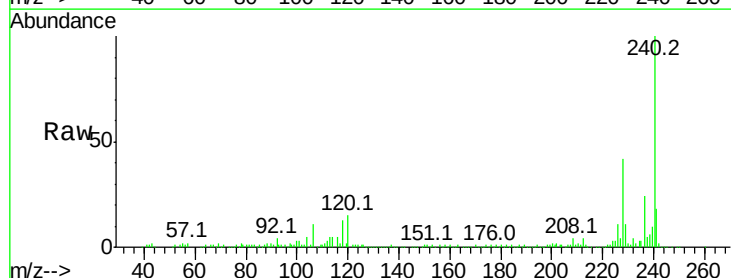
Instrument :  
BNA\_F  
ClientSampled :

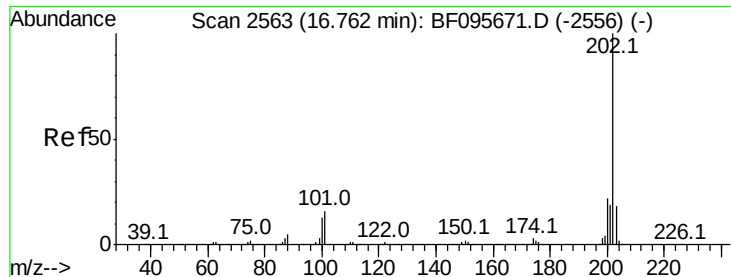
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.4  | 0.0   | 33.2  |
| 203     | 17.2  | 0.0   | 38.1  |



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 18.27 min Scan# 2854  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 14.8  | 5.8   | 8.8#  |
| 236     | 24.5  | 20.5  | 30.7  |





#77

Pvrene

Concen: 34.46 ng

RT: 16.67 min Scan# 2582

Delta R.T. -0.02 min

Lab File: BF096006.D

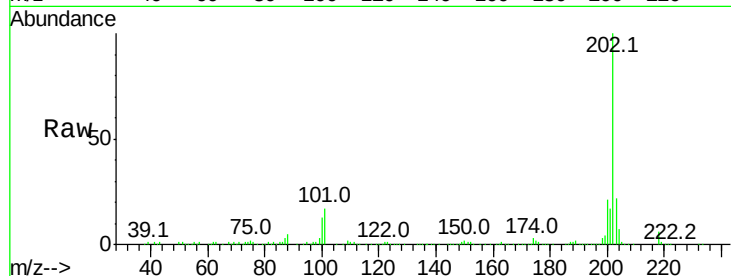
Acq: 19 Jun 2017 15:07

Instrument :

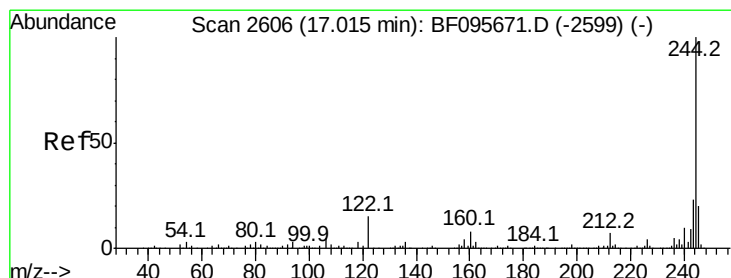
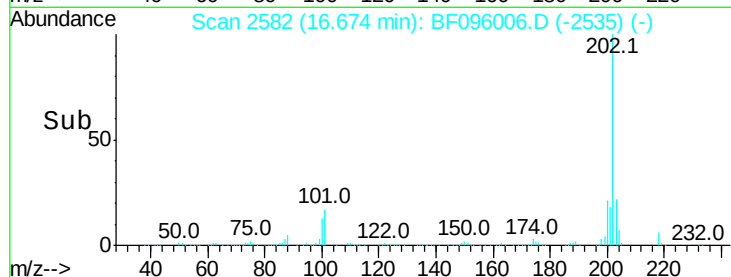
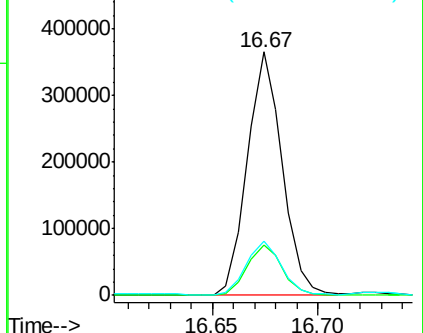
BNA\_F

ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 417328 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 200      | 20.9  | 17.6  | 26.4   |
| 203      | 22.0  | 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: 7.88 ng

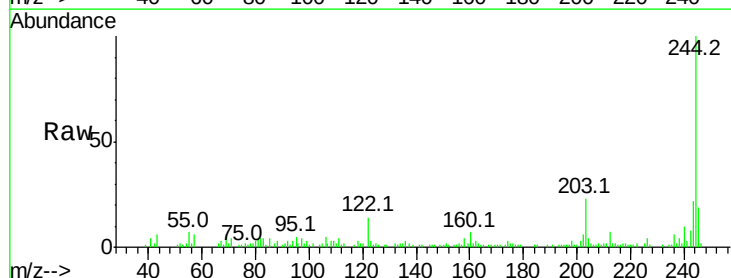
RT: 16.93 min Scan# 2625

Delta R.T. -0.02 min

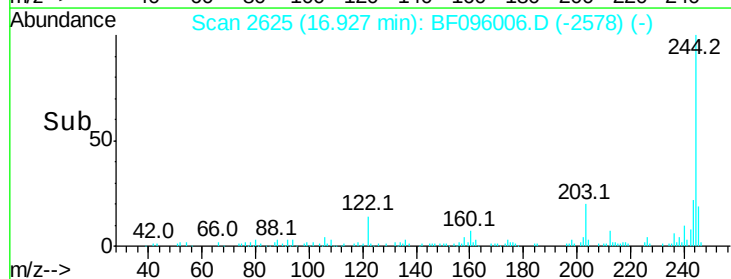
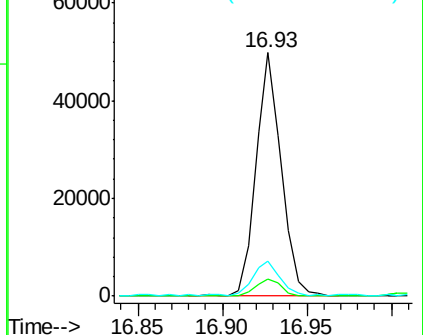
Lab File: BF096006.D

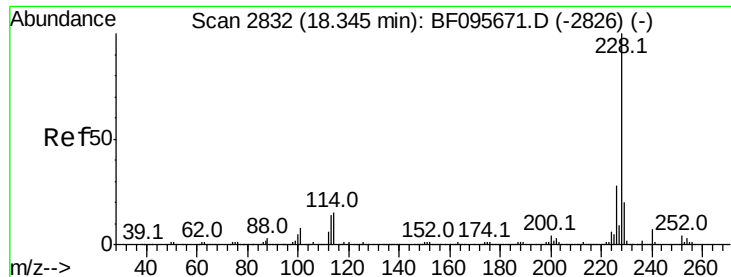
Acq: 19 Jun 2017 15:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 244   | Resp: | 51516 |
| Ion      | Ratio | Lower | Upper |
| 244      | 100   |       |       |
| 212      | 7.1   | 6.0   | 9.0   |
| 122      | 14.3  | 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: 14.37 ng

RT: 18.31 min Scan# 2860

Delta R.T. 0.02 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

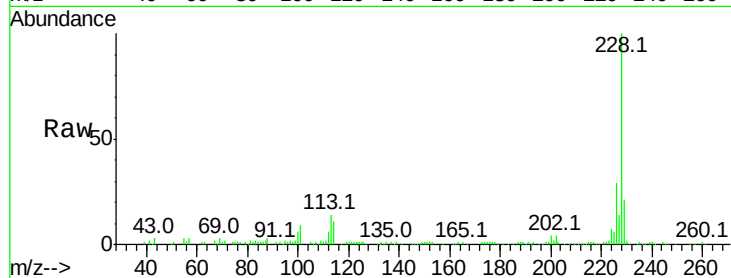
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:228 Resp: 135627

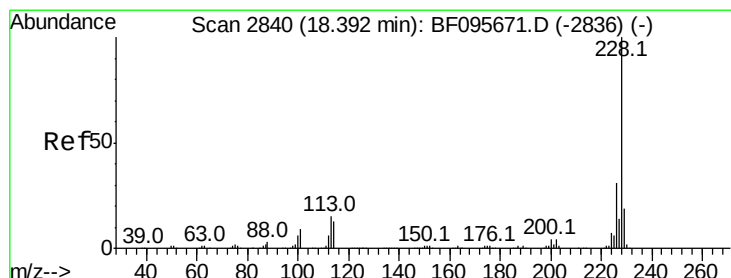
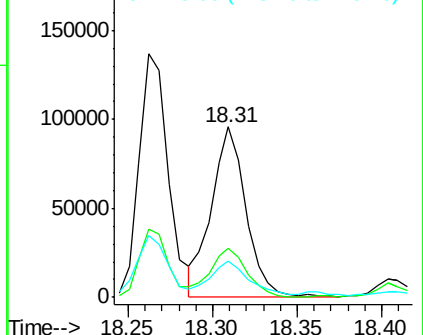
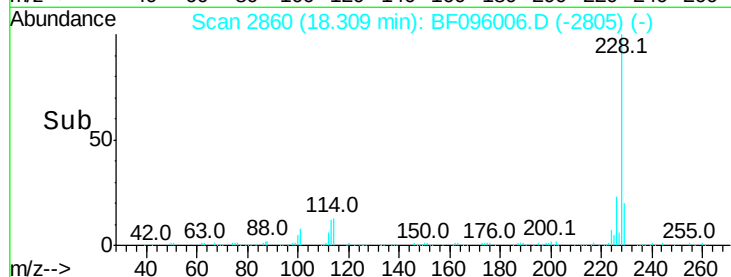
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.8  | 22.6  | 33.8  |
| 229 | 21.1  | 16.3  | 24.5  |



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: 14.38 ng

RT: 18.31 min Scan# 2860

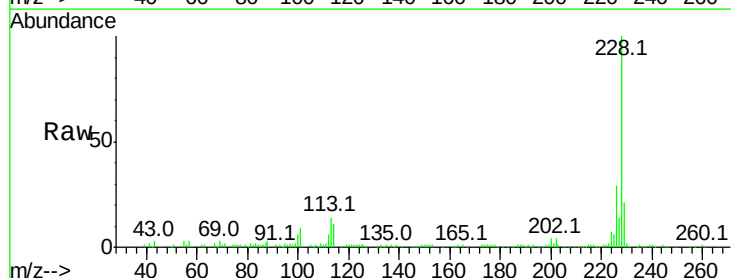
Delta R.T. -0.02 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

Tgt Ion:228 Resp: 135627

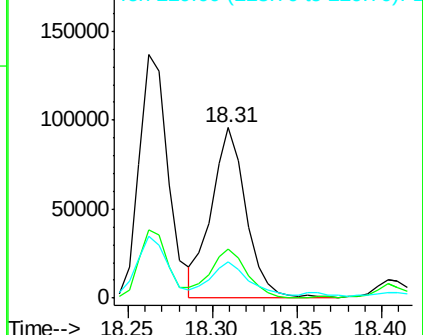
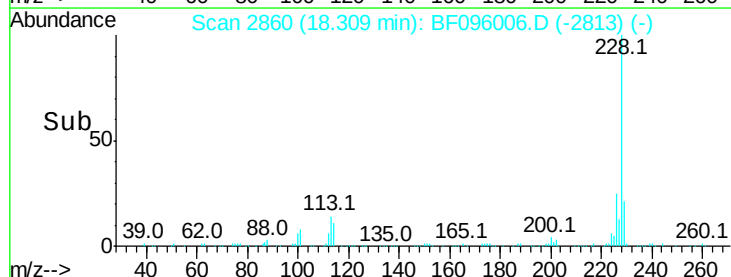
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.8  | 24.9  | 37.3  |
| 229 | 21.1  | 15.8  | 23.6  |



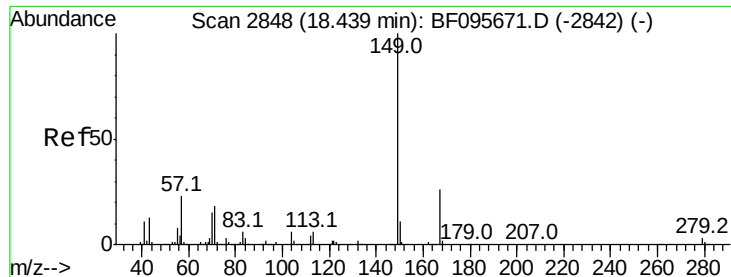
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



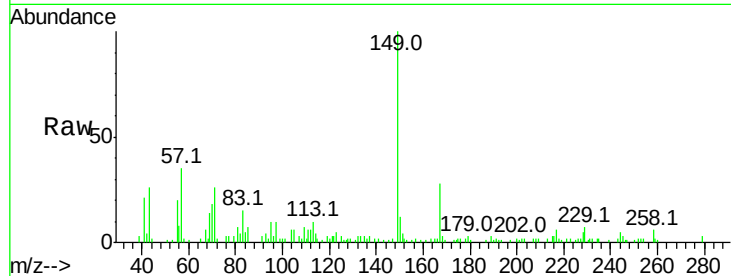




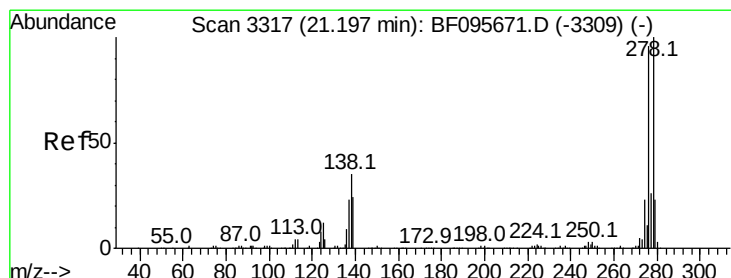
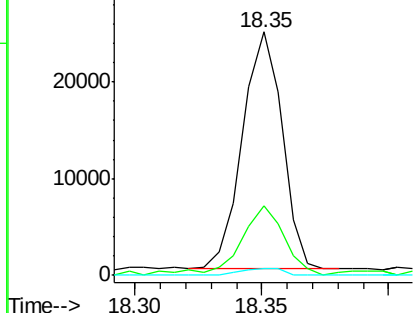
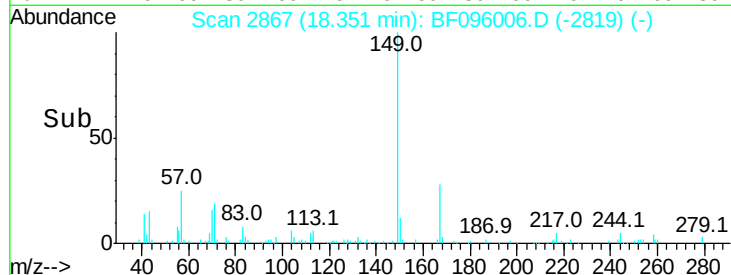
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.61 ng  
 RT: 18.35 min Scan# 2867  
 Delta R.T. -0.02 min  
 Lab File: BF096006.D  
 Acq: 19 Jun 2017 15:07

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:149 Resp: 26926  
 Ion Ratio Lower Upper  
 149 100  
 167 28.4 21.0 31.4  
 279 3.0 1.9 2.9#

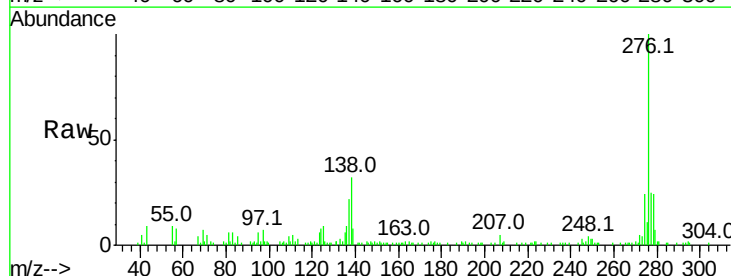


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

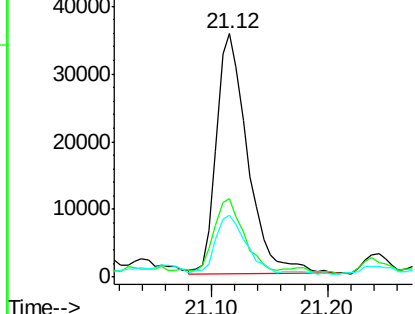
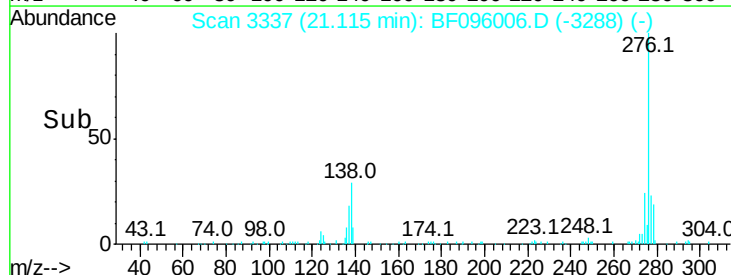


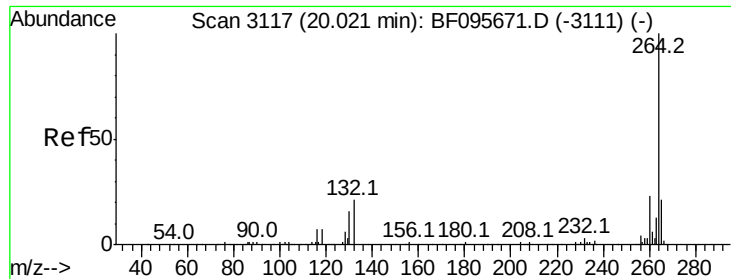
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 8.23 ng  
 RT: 21.12 min Scan# 3337  
 Delta R.T. -0.01 min  
 Lab File: BF096006.D  
 Acq: 19 Jun 2017 15:07

Tgt Ion:276 Resp: 66418  
 Ion Ratio Lower Upper  
 276 100  
 138 30.6 27.8 41.6  
 277 22.8 20.2 30.4



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

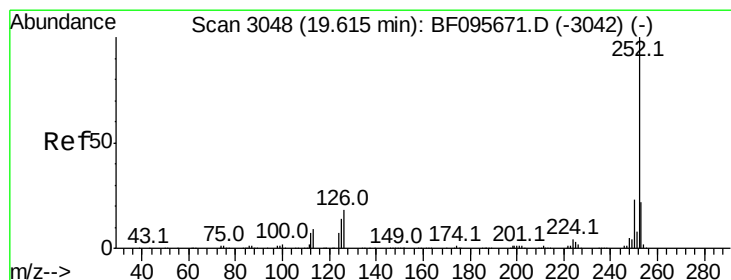
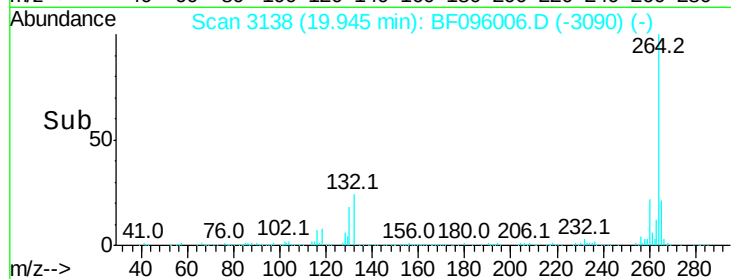
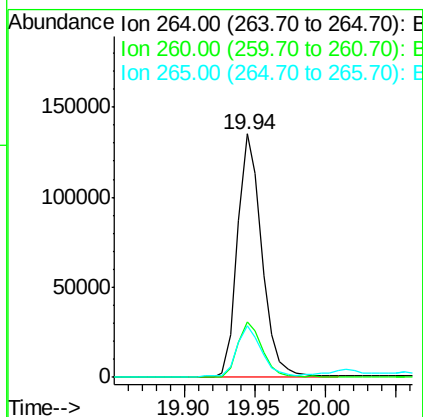
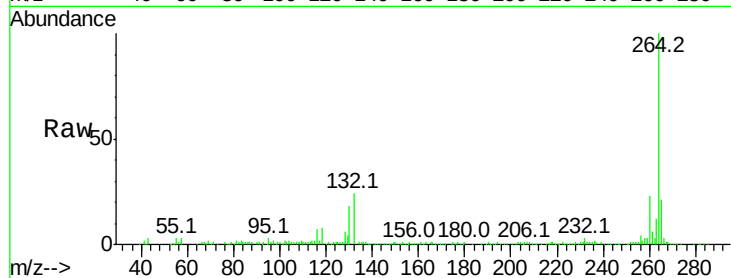




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 19.94 min Scan# 3138  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

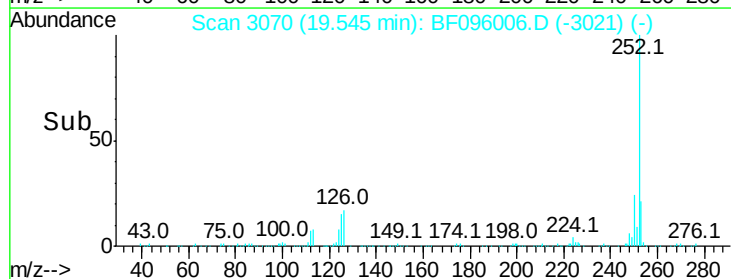
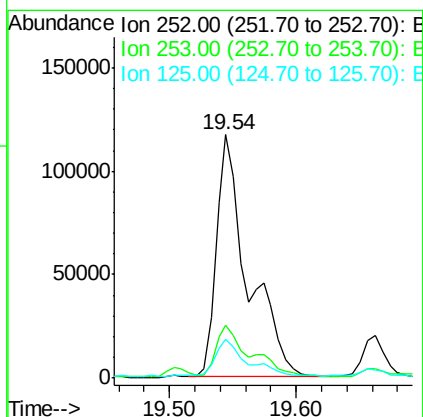
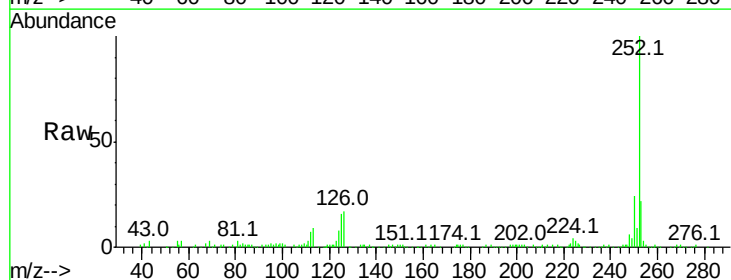
Instrument :  
BNA\_F  
ClientSampleId :

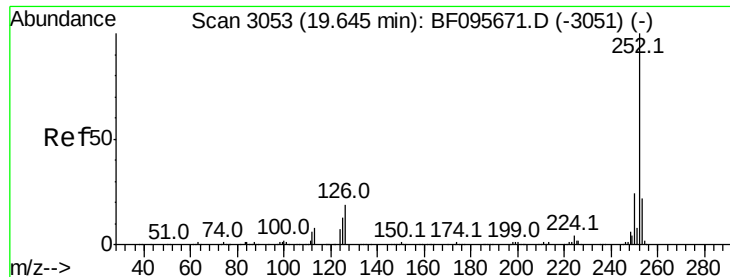
Tot Ion:264 Resp: 163594  
Ion Ratio Lower Upper  
264 100  
260 22.5 19.5 29.3  
265 21.3 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 19.80 ng  
RT: 19.54 min Scan# 3070  
Delta R.T. -0.01 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

Tgt Ion:252 Resp: 202833  
Ion Ratio Lower Upper  
252 100  
253 21.9 18.1 27.1  
125 15.8 9.8 14.8#

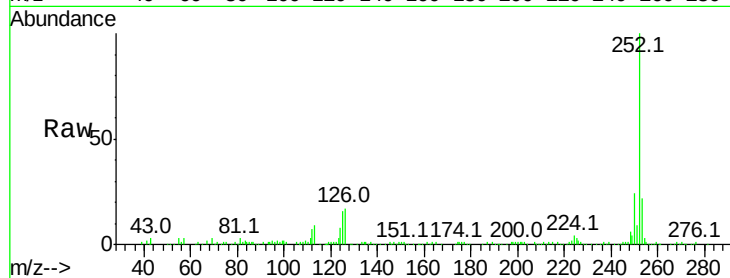




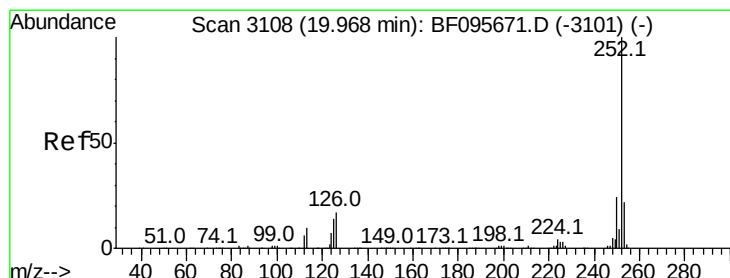
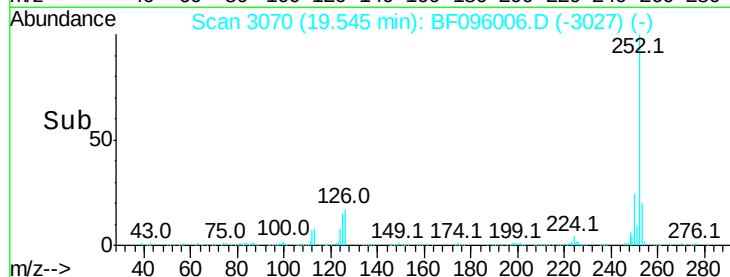
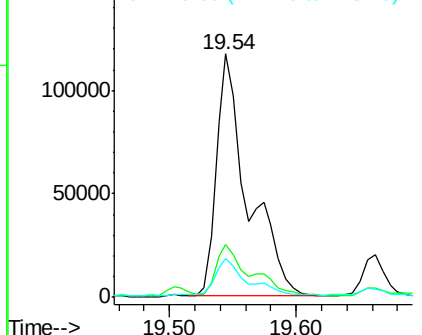
#88  
Benzo(k)fluoranthene  
Concen: 20.72 ng  
RT: 19.54 min Scan# 3070  
Delta R.T. -0.05 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 18.4  | 27.6  |
| 125     | 15.8  | 13.1  | 19.7  |

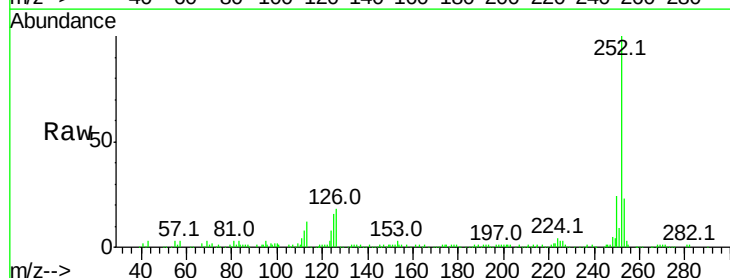


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

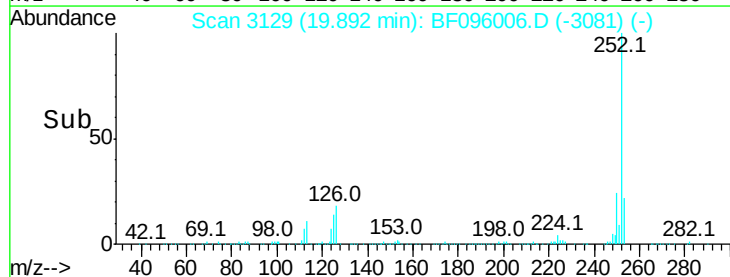
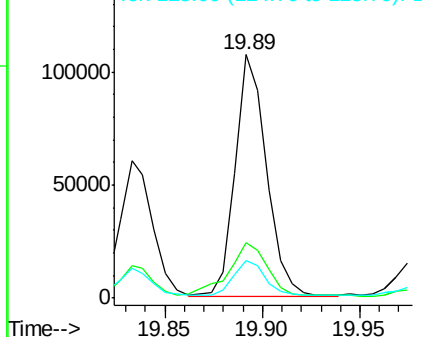


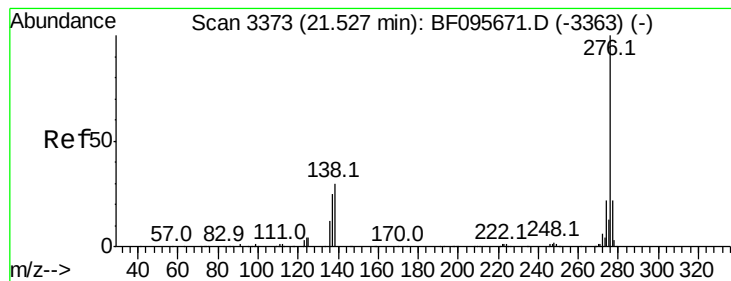
#89  
Benzo(a)pyrene  
Concen: 12.75 ng  
RT: 19.89 min Scan# 3129  
Delta R.T. -0.02 min  
Lab File: BF096006.D  
Acq: 19 Jun 2017 15:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.5  | 26.3  |
| 125     | 15.6  | 11.0  | 16.4  |



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(a,h,i)perylene

Concen: 7.31 ng

RT: 21.44 min Scan# 3392

Delta R.T. -0.01 min

Lab File: BF096006.D

Acq: 19 Jun 2017 15:07

Instrument :

BNA\_F

ClientSampleId :

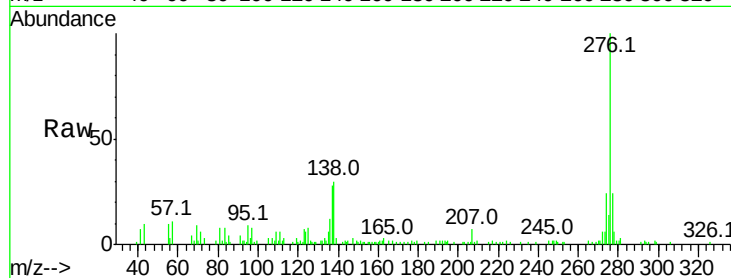
Tot Ion: 276 Resp: 59511

Ion Ratio Lower Upper

276 100

277 24.1 18.6 28.0

138 30.2 25.4 38.0



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

