

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062118\  
 Data File : BF106675.D  
 Acq On : 21 Jun 2018 21:49  
 Operator : JU/SJ  
 Sample : J3247-05  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 22 03:24:09 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 19 14:32:09 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 61594    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 228911   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.00 | 164  | 101610   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 173559   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 173073   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.68 | 264  | 130927   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 320386   | 88.08 | ng    | 0.00     |
| 7) Phenol-d6                | 6.60  | 99   | 405135   | 89.19 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 255606   | 62.05 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 99250    | 84.28 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 438052   | 70.45 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.08 | 244  | 457785   | 64.07 | ng    | 0.00     |

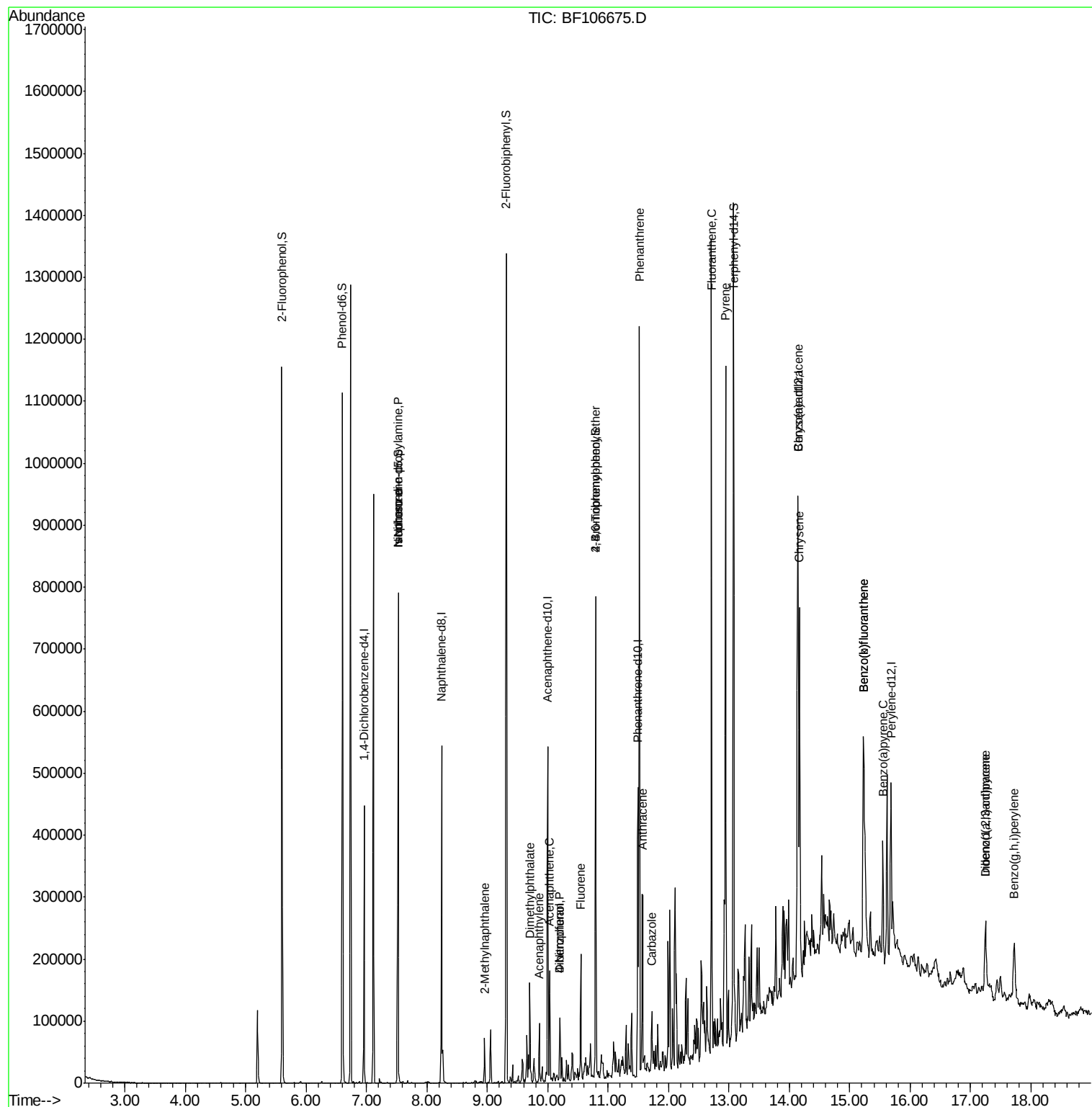
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 33535    | 11.200 | ng    | # 71   |
| 25) Isophorone                 | 7.52  | 82   | 255603   | 35.215 | ng    | # 64   |
| 37) 2-Methylnaphthalene        | 8.95  | 142  | 19651    | 2.770  | ng    | 92     |
| 48) Acenaphthylene             | 9.86  | 152  | 34401    | 3.418  | ng    | 96     |
| 49) Dimethylphthalate          | 9.71  | 163  | 54653    | 7.171  | ng    | 99     |
| 51) Acenaphthene               | 10.03 | 154  | 34970    | 5.518  | ng    | 95     |
| 54) Dibenzofuran               | 10.21 | 168  | 36677    | 4.227  | ng    | 95     |
| 55) 4-Nitrophenol              | 10.21 | 139  | 12520    | 9.659  | ng    | # 9    |
| 57) Fluorene                   | 10.55 | 166  | 55422    | 8.049  | ng    | 99     |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 6535     | 3.155  | ng    | # 1    |
| 70) Phenanthrene               | 11.52 | 178  | 430962   | 51.482 | ng    | 99     |
| 71) Anthracene                 | 11.57 | 178  | 128133   | 14.996 | ng    | 98     |
| 72) Carbazole                  | 11.72 | 167  | 31712    | 3.964  | ng    | 97     |
| 74) Fluoranthene               | 12.71 | 202  | 546887   | 59.273 | ng    | 97     |
| 77) Pyrene                     | 12.95 | 202  | 499574   | 43.773 | ng    | 100    |
| 80) Benzo(a)anthracene         | 14.14 | 228  | 274187   | 25.993 | ng    | 97     |
| 82) Chrysene                   | 14.17 | 228  | 233003   | 24.010 | ng    | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.25 | 276  | 75895    | 9.216  | ng    | # 87   |
| 87) Benzo(b)fluoranthene       | 15.23 | 252  | 304902   | 37.489 | ng    | 96     |
| 88) Benzo(k)fluoranthene       | 15.23 | 252  | 304902   | 39.367 | ng    | # 96   |
| 89) Benzo(a)pyrene             | 15.55 | 252  | 101576   | 14.049 | ng    | 97     |
| 90) Dibenzo(a,h)anthracene     | 17.25 | 278  | 20120    | 3.284  | ng    | 96     |
| 91) Benzo(g,h,i)perylene       | 17.72 | 276  | 72532    | 12.111 | ng    | # 90   |

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

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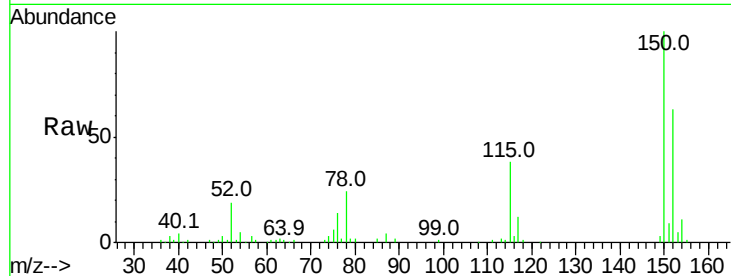


#1

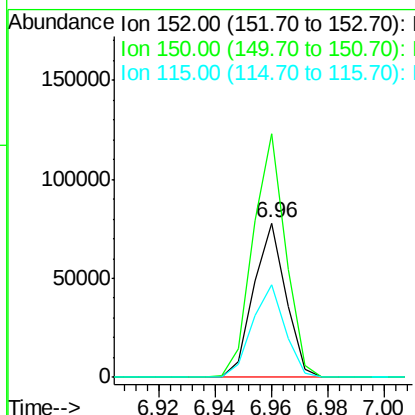
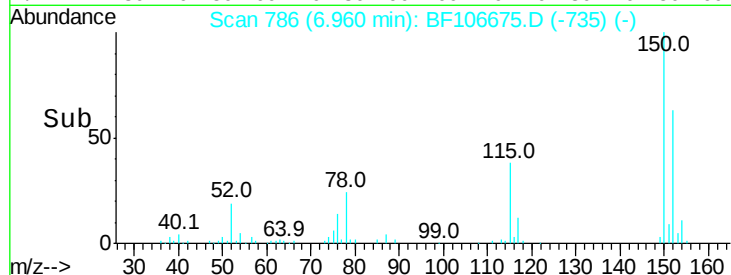
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 786  
Delta R.T. 0.00 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 61594  
Ion Ratio Lower Upper  
152 100  
150 158.0 124.6 186.8  
115 59.8 50.1 75.1



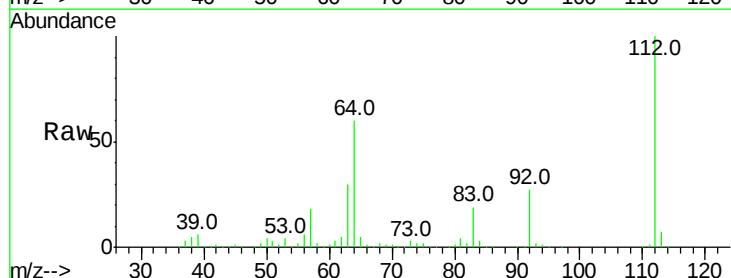
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



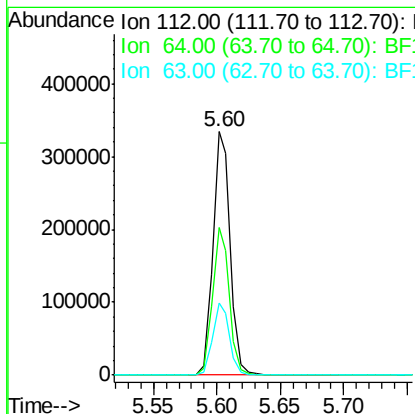
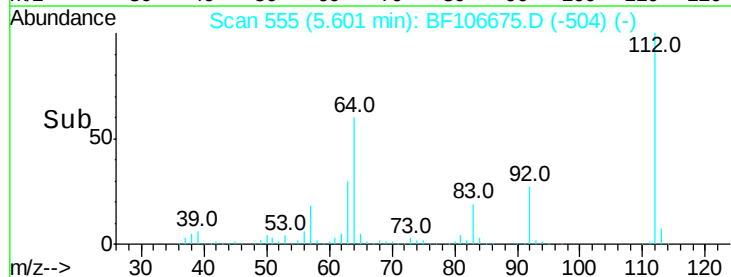
#5

2-Fluorophenol  
Concen: 88.079 ng  
RT: 5.60 min Scan# 555  
Delta R.T. 0.00 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

Tgt Ion:112 Resp: 320386  
Ion Ratio Lower Upper  
112 100  
64 60.4 47.9 71.9  
63 29.9 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 89.188 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Instrument :

BNA\_F

ClientSampleId :

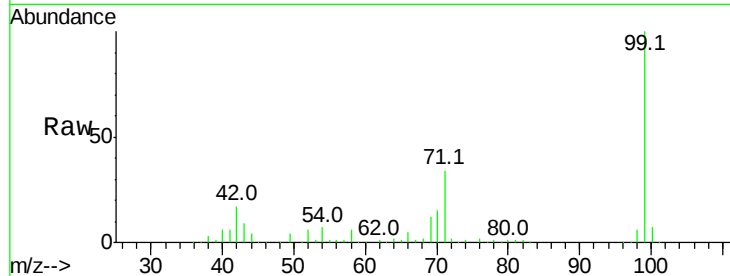
Tot Ion: 99 Resp: 405135

Ion Ratio Lower Upper

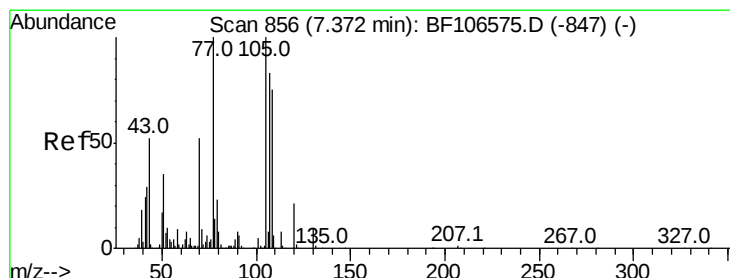
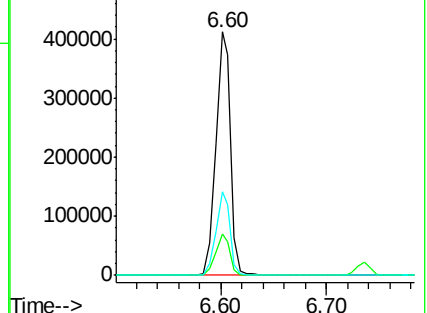
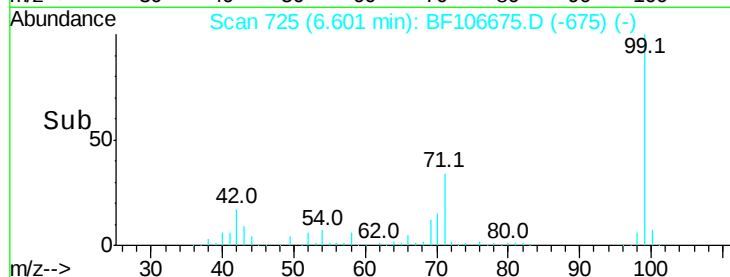
99 100

42 16.8 14.5 21.7

71 34.1 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.200 ng

RT: 7.52 min Scan# 882

Delta R.T. 0.15 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Tgt Ion: 70 Resp: 33535

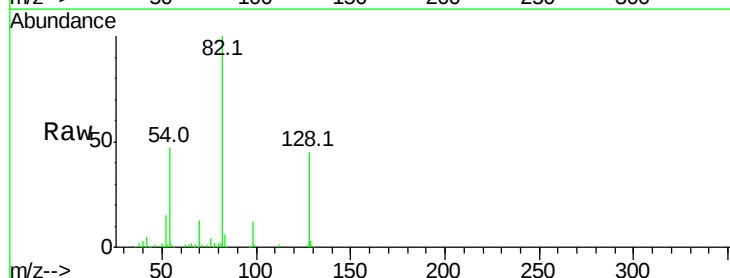
Ion Ratio Lower Upper

70 100

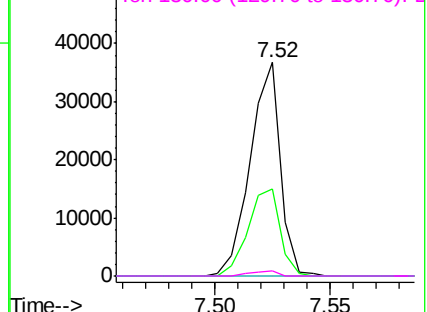
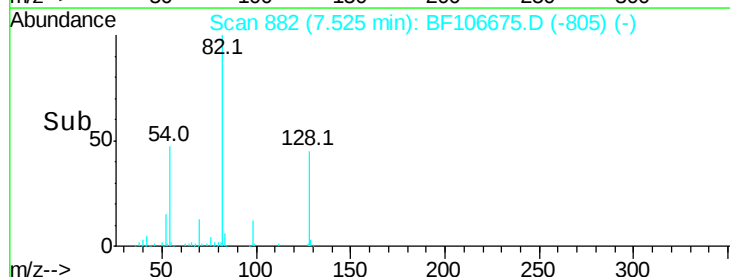
42 40.5 47.5 71.3#

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 228911

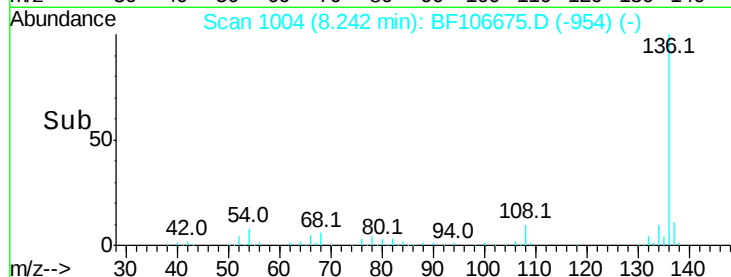
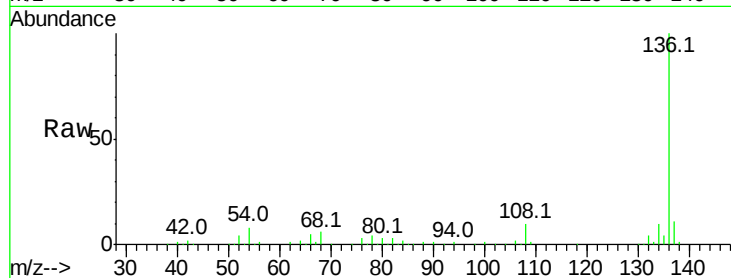
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 8.2 6.6 9.8

68 6.4 5.0 7.4

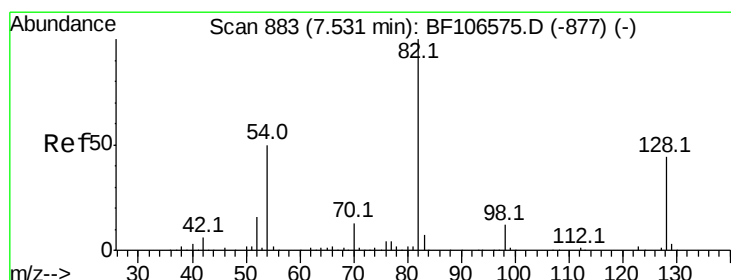
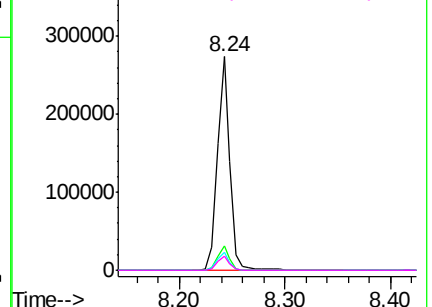


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 62.054 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

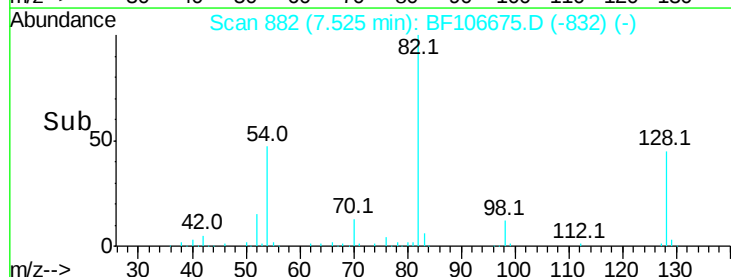
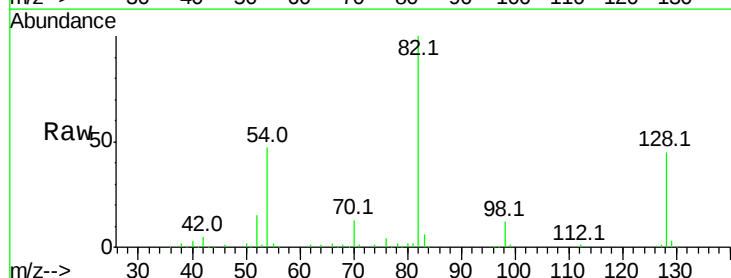
Tgt Ion: 82 Resp: 255606

Ion Ratio Lower Upper

82 100

128 45.0 36.1 54.1

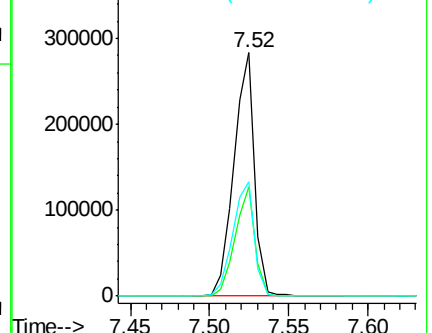
54 47.2 41.4 62.2

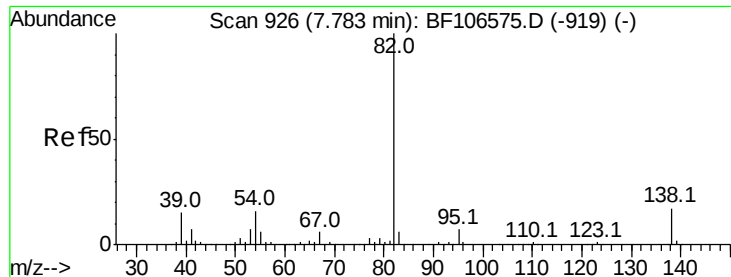


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 35.215 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.26 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Instrument :  
BNA\_F  
ClientSampleId :

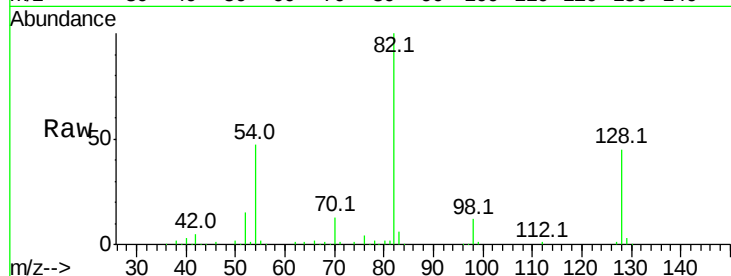
Tot Ion: 82 Resp: 255603

Ion Ratio Lower Upper

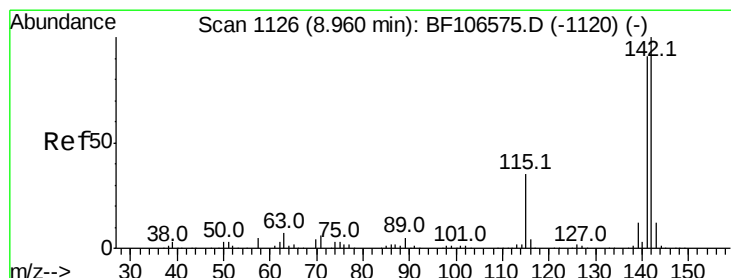
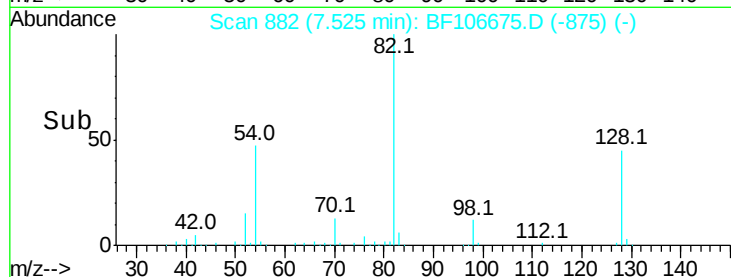
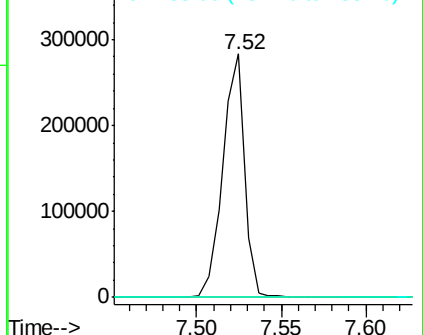
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#37

2-Methylnaphthalene

Concen: 2.770 ng

RT: 8.95 min Scan# 1125

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

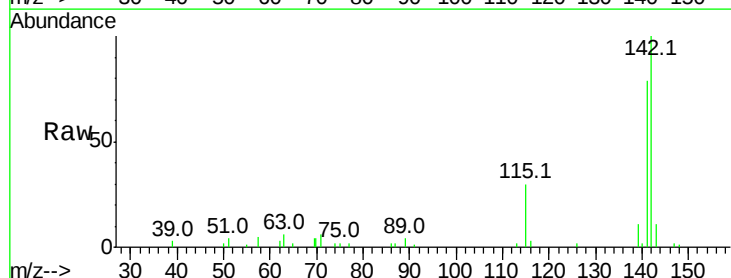
Tgt Ion: 142 Resp: 19651

Ion Ratio Lower Upper

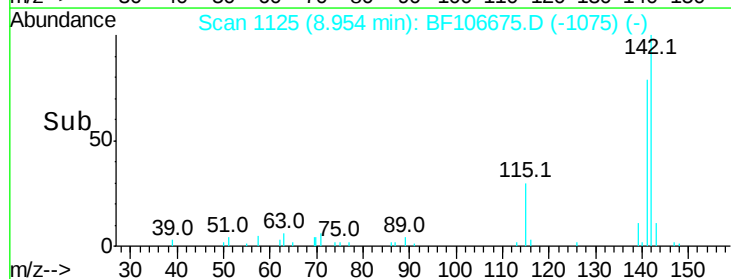
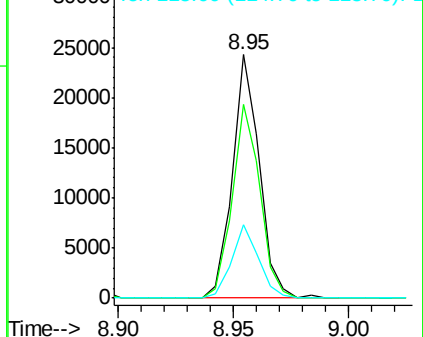
142 100

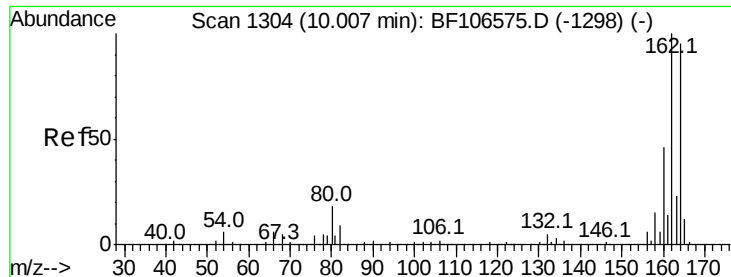
141 79.3 70.8 106.2

115 30.2 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): BF1  
Ion 141.00 (140.70 to 141.70): BF1  
Ion 115.00 (114.70 to 115.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.00 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Instrument :

BNA\_F

ClientSampleId :

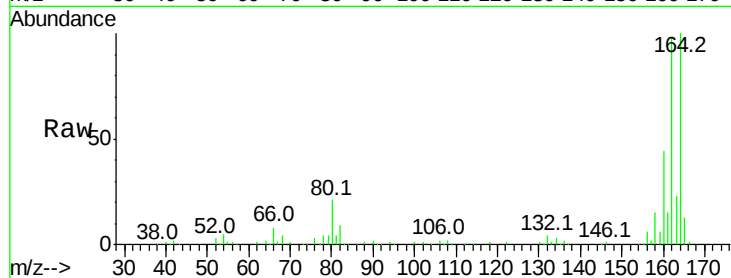
Tot Ion:164 Resp: 101610

Ion Ratio Lower Upper

164 100

162 97.8 86.1 129.1

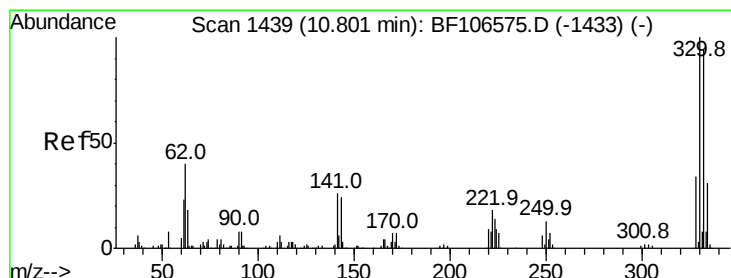
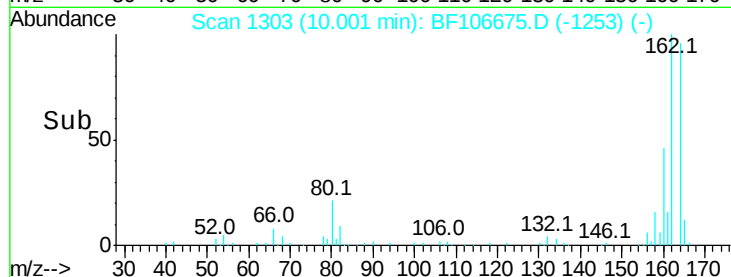
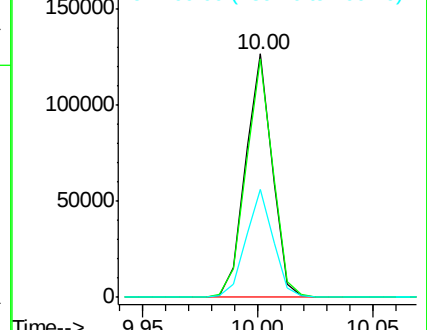
160 44.3 38.3 57.5



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: 84.275 ng

RT: 10.80 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

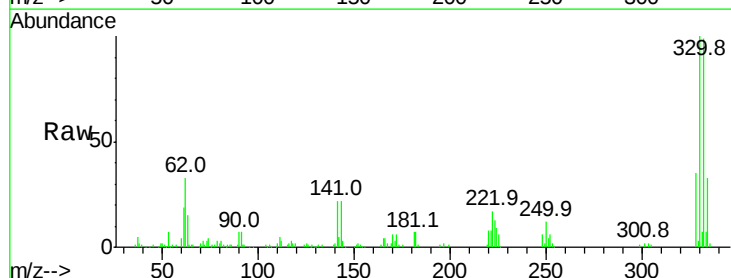
Tgt Ion:330 Resp: 99250

Ion Ratio Lower Upper

330 100

332 97.1 77.0 115.6

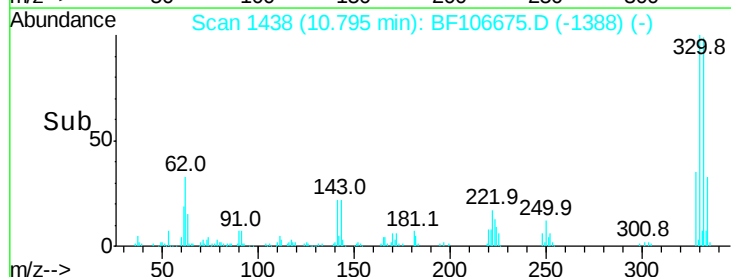
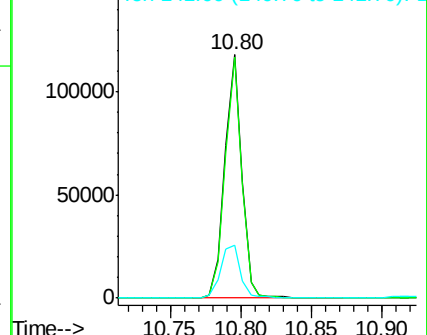
141 25.1 29.9 44.9#



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

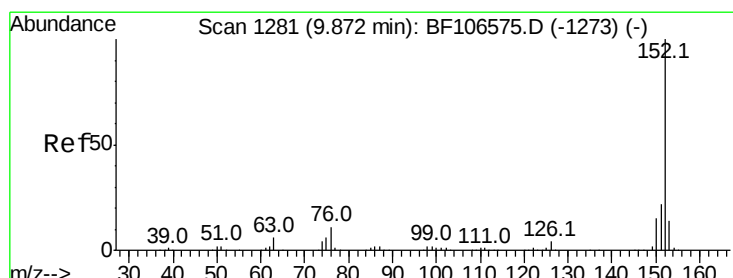
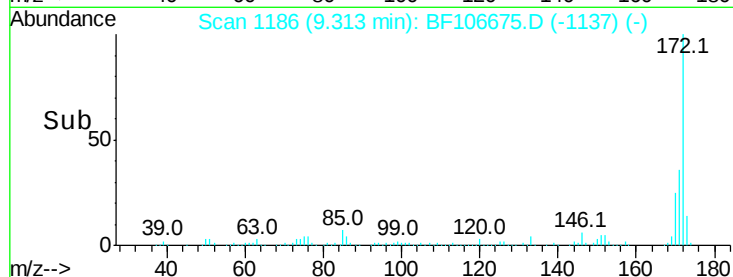
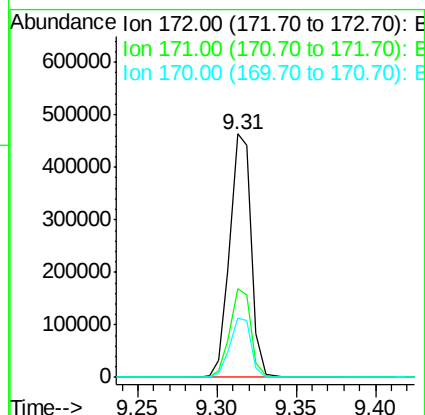
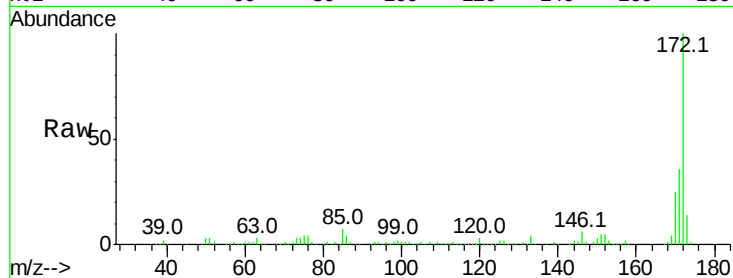




#44  
 2-Fluorobiphenyl  
 Concen: 70.445 ng  
 RT: 9.31 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF106675.D  
 Acq: 21 Jun 2018 21:49

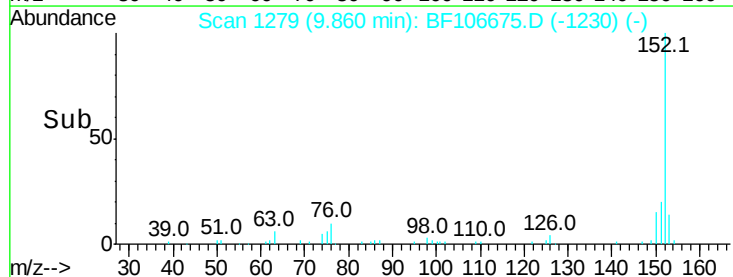
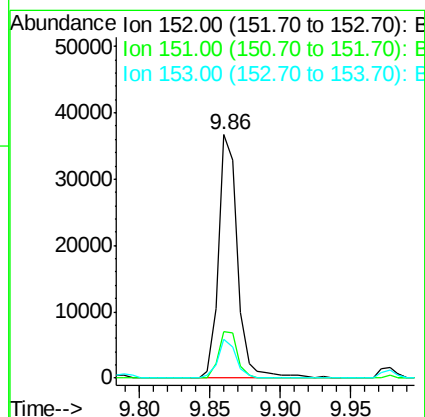
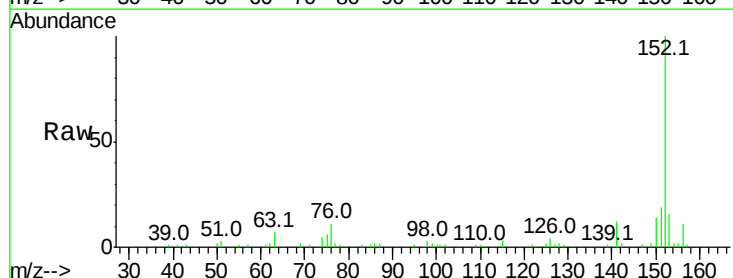
Instrument :  
 BNA\_F  
 ClientSampleId :

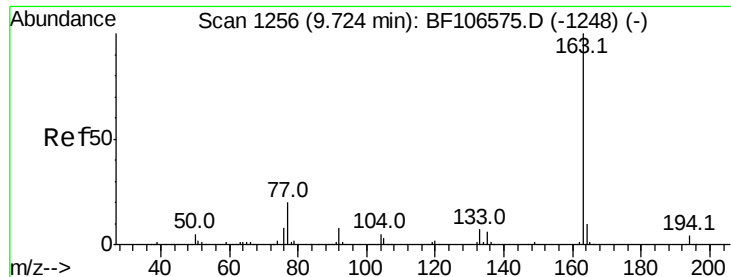
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 24.6  | 19.6  | 29.4  |



#48  
 Acenaphthylene  
 Concen: 3.418 ng  
 RT: 9.86 min Scan# 1279  
 Delta R.T. -0.01 min  
 Lab File: BF106675.D  
 Acq: 21 Jun 2018 21:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.3  | 16.3  | 24.5  |
| 153     | 15.7  | 10.7  | 16.1  |

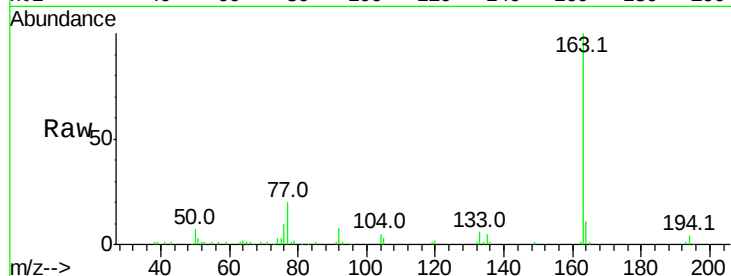




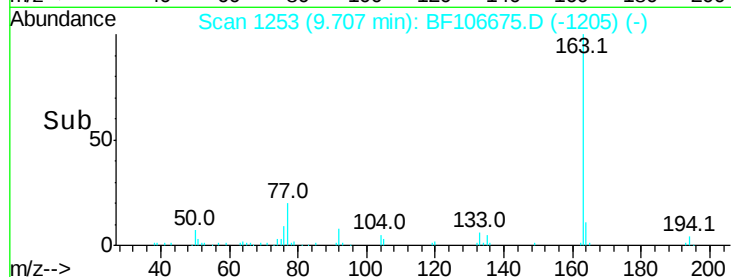
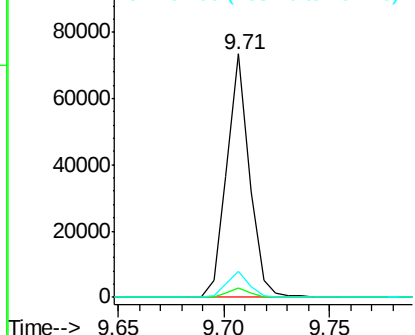
#49  
Dimethylphthalate  
Concen: 7.171 ng  
RT: 9.71 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 54653  
Ion Ratio Lower Upper  
163 100  
194 3.7 2.7 4.1  
164 10.6 8.2 12.2

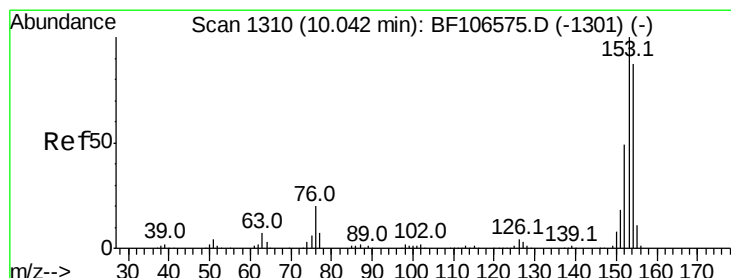


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

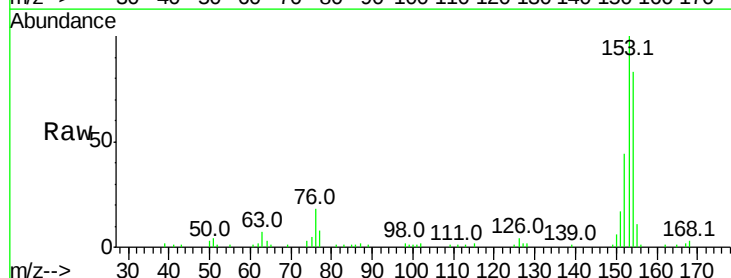
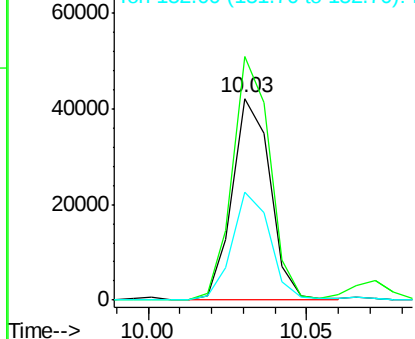


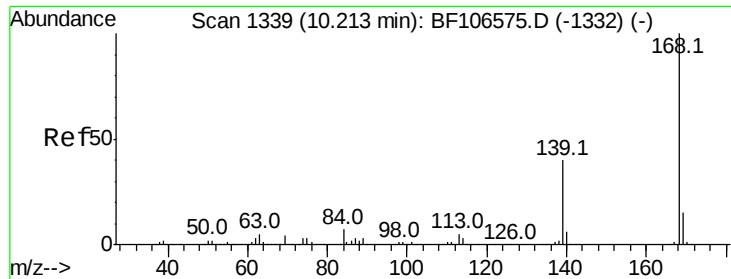
#51  
Acenaphthene  
Concen: 5.518 ng  
RT: 10.03 min Scan# 1308  
Delta R.T. -0.01 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

Tgt Ion:154 Resp: 34970  
Ion Ratio Lower Upper  
154 100  
153 120.9 91.2 136.8  
152 53.4 43.8 65.8



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

Dibenzenofuran

Concen: 4.227 ng

RT: 10.21 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

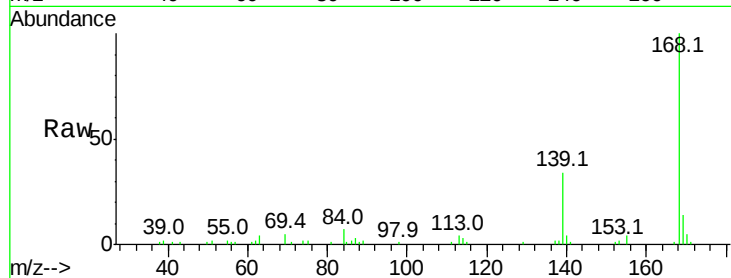
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:168 Resp: 36677

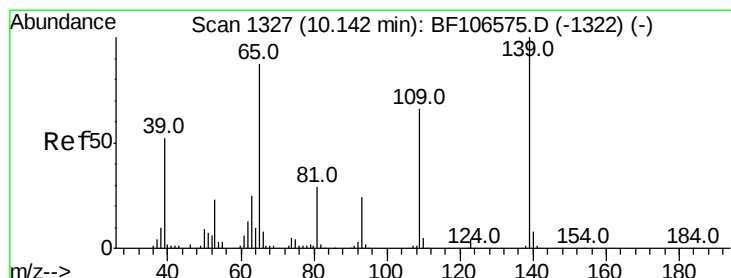
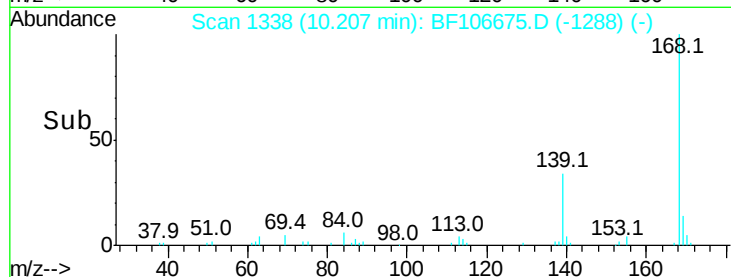
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100   |       |       |
| 139 | 33.9  | 30.1  | 45.1  |
| 169 | 13.9  | 10.9  | 16.3  |



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: 9.659 ng

RT: 10.21 min Scan# 1338

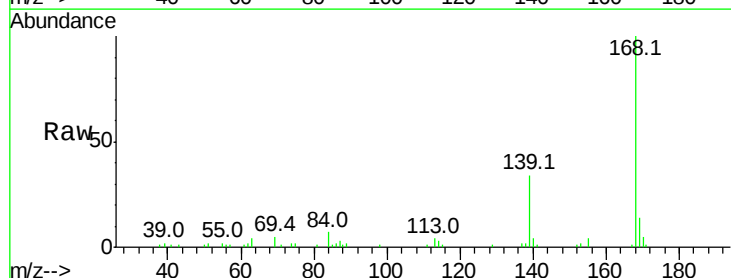
Delta R.T. 0.06 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Tgt Ion:139 Resp: 12520

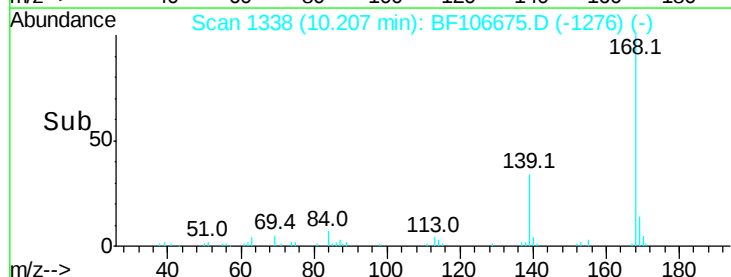
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 139 | 100   |       |        |
| 109 | 0.0   | 48.4  | 88.4#  |
| 65  | 0.0   | 72.6  | 112.6# |

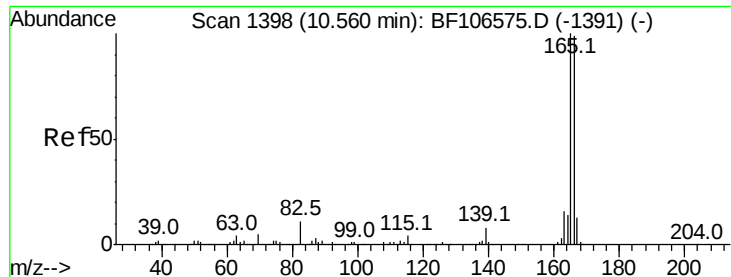


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

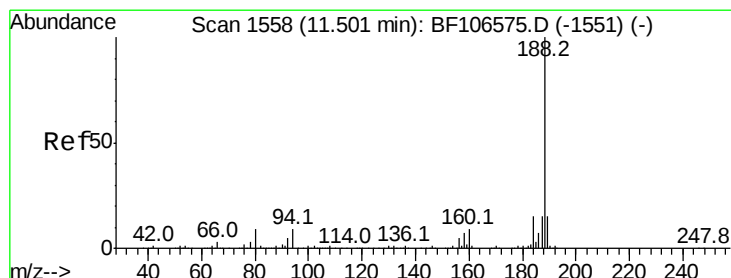
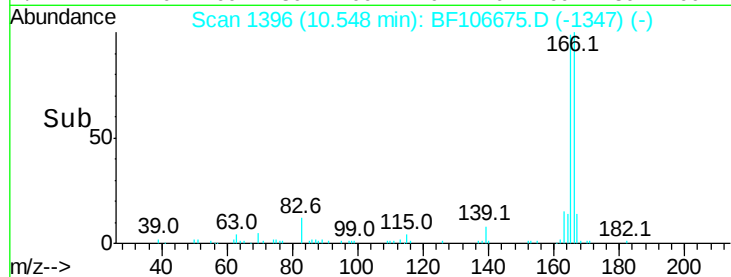
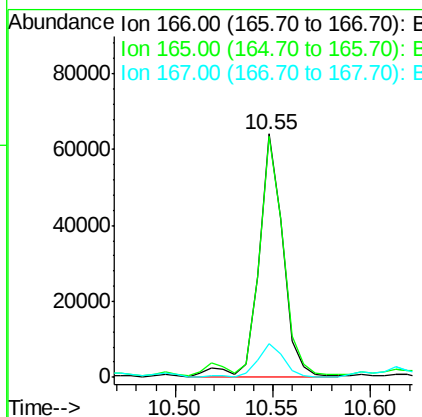
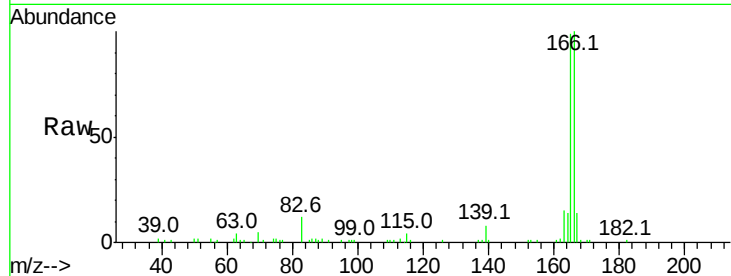




#57  
 Fluorene  
 Concen: 8.049 ng  
 RT: 10.55 min Scan# 1396  
 Delta R.T. -0.01 min  
 Lab File: BF106675.D  
 Acq: 21 Jun 2018 21:49

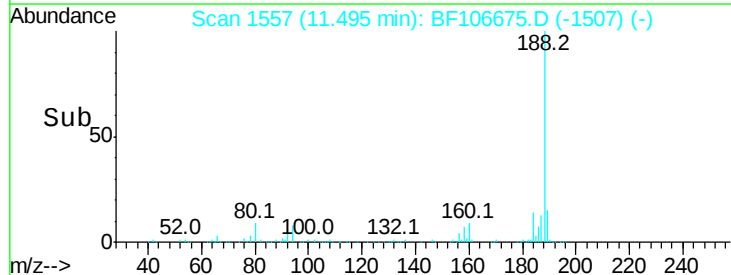
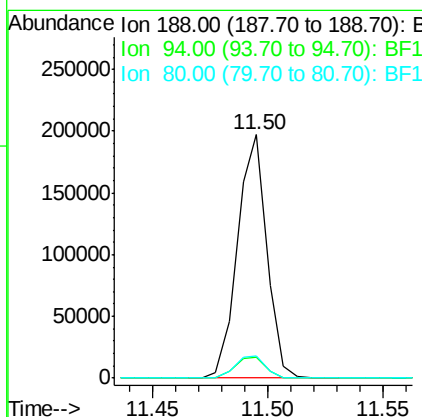
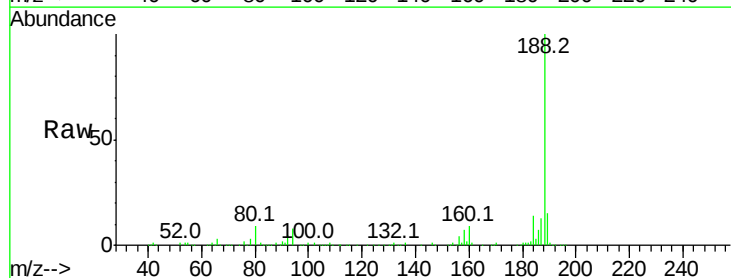
Instrument :  
 BNA\_F  
 ClientSampleId :

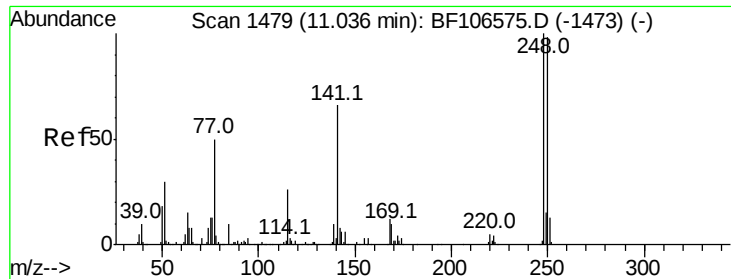
Tot Ion:166 Resp: 55422  
 Ion Ratio Lower Upper  
 166 100  
 165 98.9 79.8 119.8  
 167 13.9 10.6 16.0



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.50 min Scan# 1557  
 Delta R.T. -0.01 min  
 Lab File: BF106675.D  
 Acq: 21 Jun 2018 21:49

Tgt Ion:188 Resp: 173559  
 Ion Ratio Lower Upper  
 188 100  
 94 8.4 8.5 12.7#  
 80 8.9 9.2 13.8#

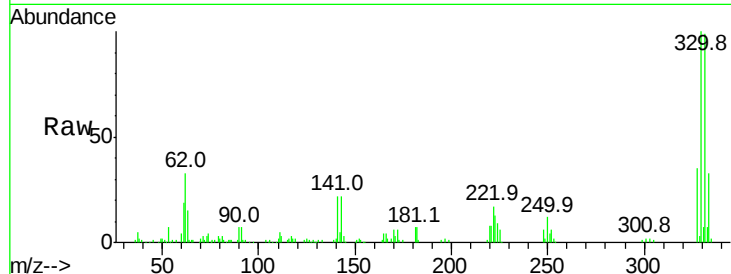




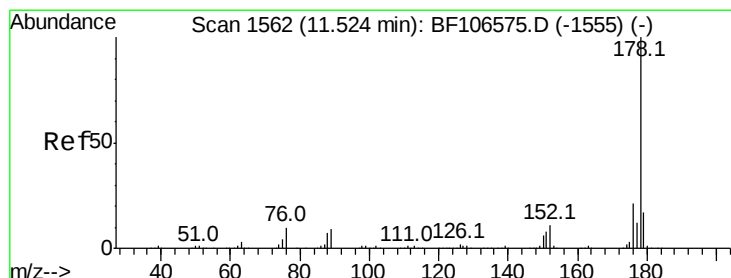
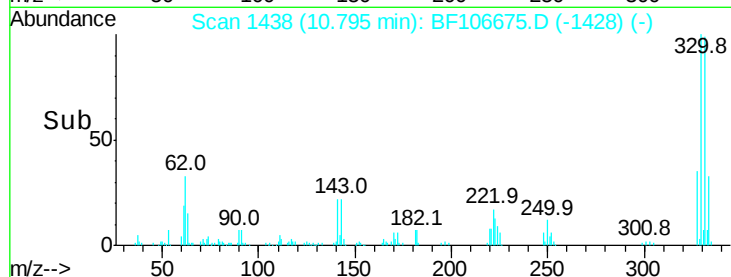
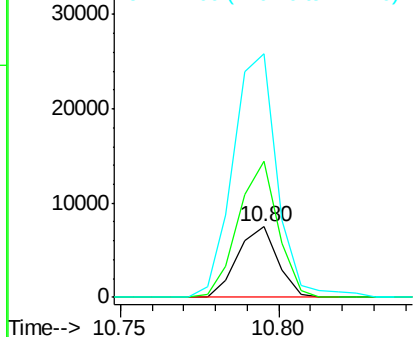
#66  
4-Bromophenyl-phenylether  
Concen: 3.155 ng  
RT: 10.80 min Scan# 1438  
Delta R.T. -0.24 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 6535  
Ion Ratio Lower Upper  
248 100  
250 194.6 76.9 115.3#  
141 346.7 74.4 111.6#

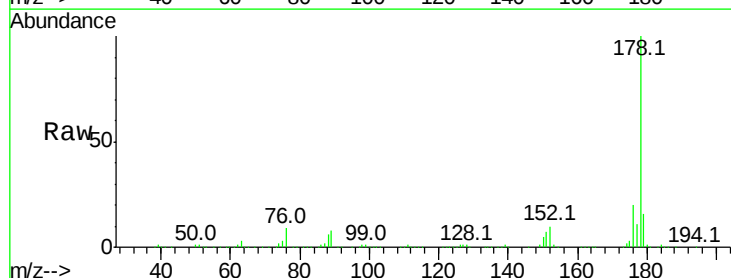


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

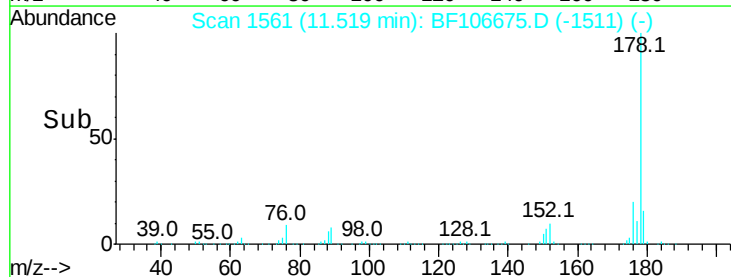
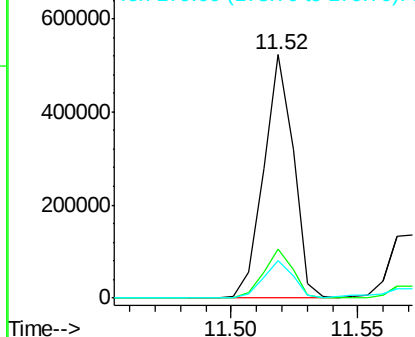


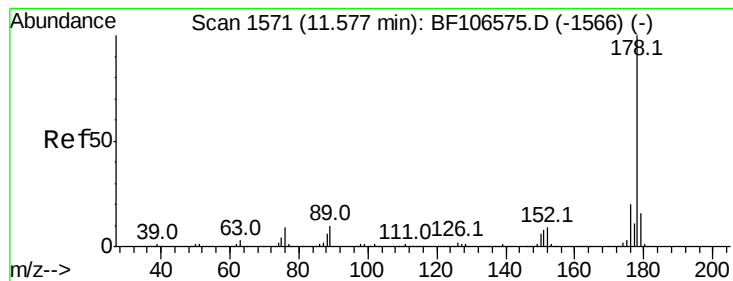
#70  
Phenanthrene  
Concen: 51.482 ng  
RT: 11.52 min Scan# 1561  
Delta R.T. -0.01 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

Tgt Ion:178 Resp: 430962  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.8 23.8  
179 15.6 13.0 19.6



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: 14.996 ng

RT: 11.57 min Scan# 1570

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Instrument :

BNA\_F

ClientSampleId :

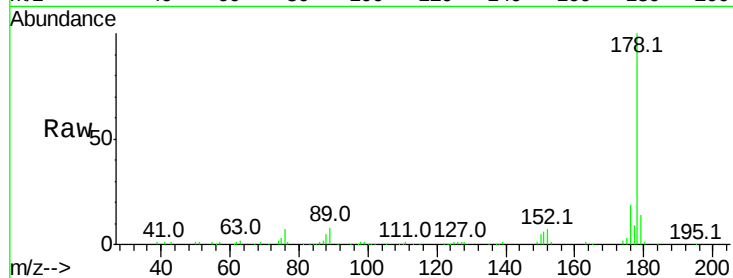
Tot Ion:178 Resp: 128133

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

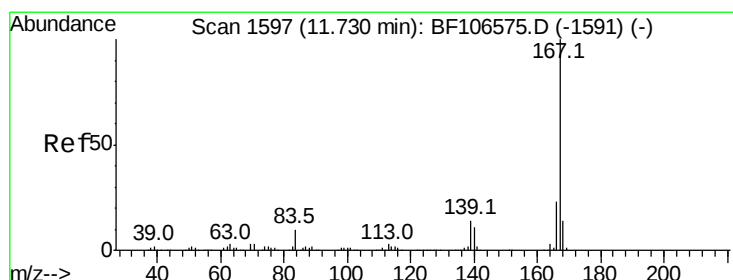
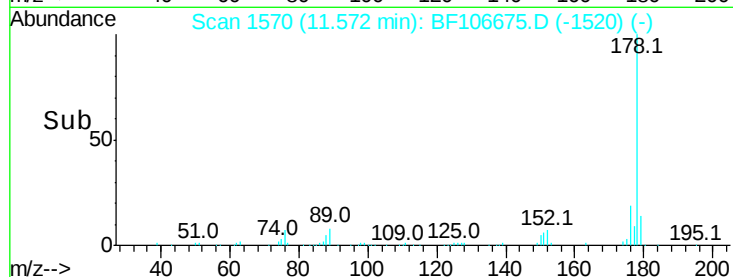
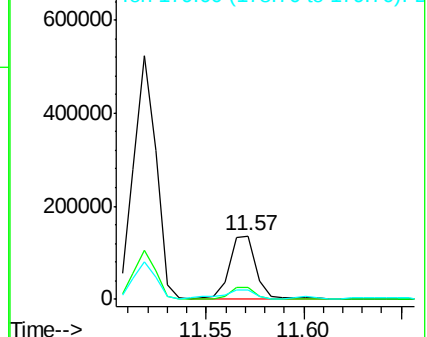
179 14.4 12.6 19.0



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



#72

Carbazole

Concen: 3.964 ng

RT: 11.72 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

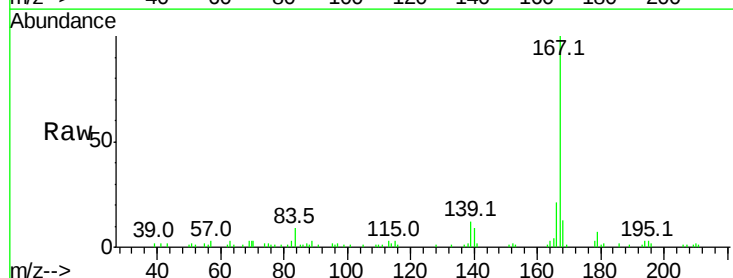
Tgt Ion:167 Resp: 31712

Ion Ratio Lower Upper

167 100

166 21.4 17.6 26.4

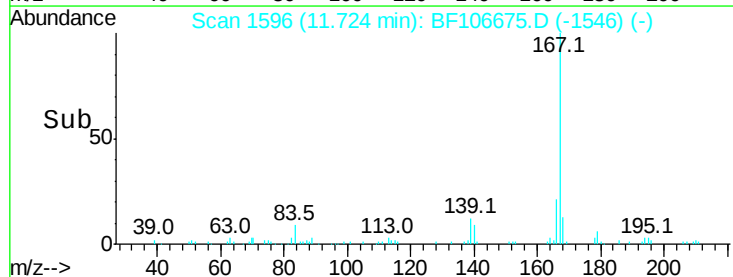
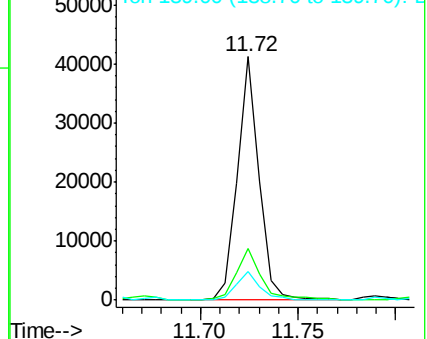
139 11.7 10.9 16.3

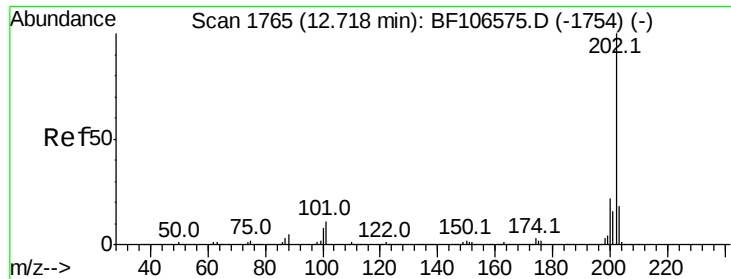


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 59.273 ng

RT: 12.71 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF106675.D

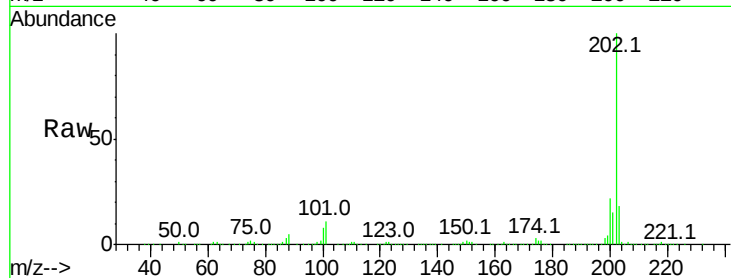
Acq: 21 Jun 2018 21:49

Instrument :

BNA\_F

ClientSampleId :

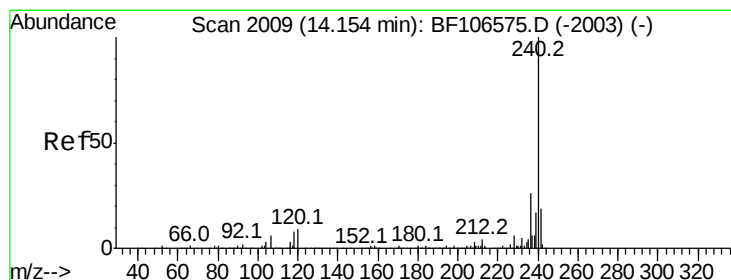
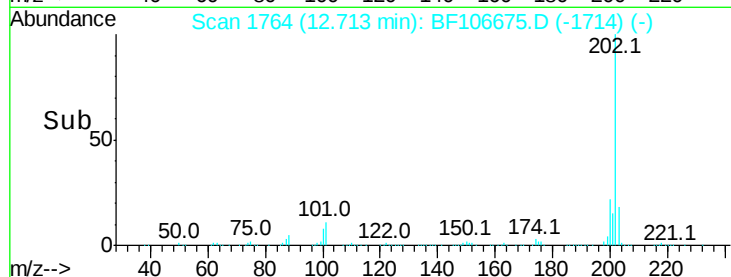
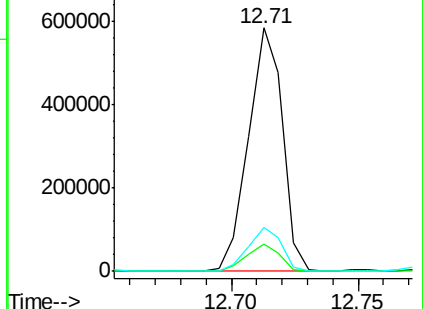
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 546887 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 11.4  | 0.0   | 34.1   |
| 203      | 18.3  | 0.0   | 38.1   |



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: 20.000 ng

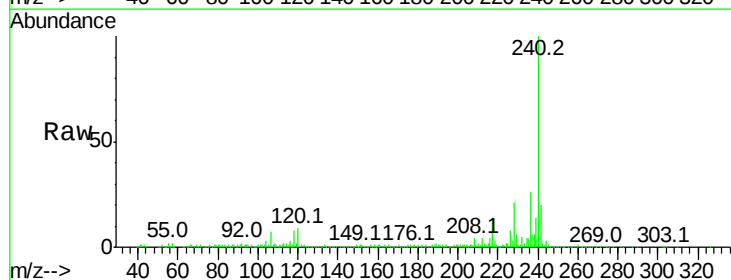
RT: 14.15 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

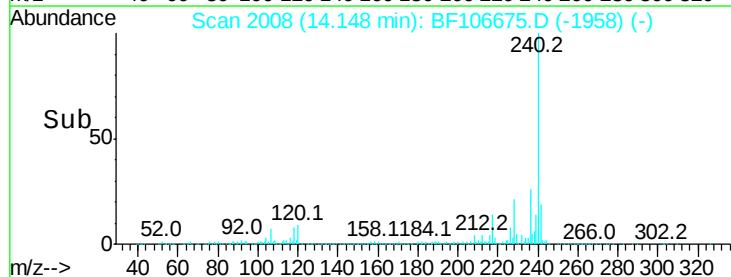
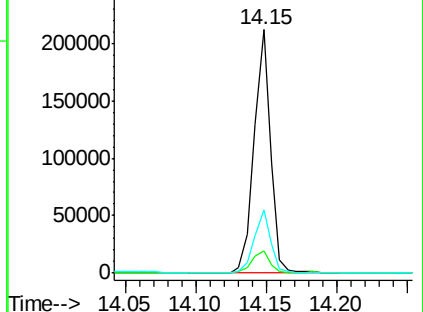
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 173073 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 9.1   | 9.5   | 14.3#  |
| 236      | 26.1  | 20.7  | 31.1   |

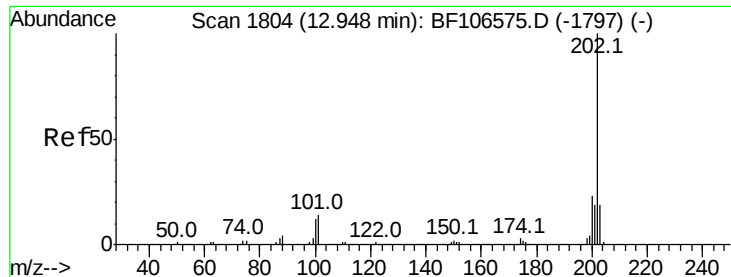


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 43.773 ng

RT: 12.95 min Scan# 1804

Delta R.T. 0.00 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Instrument :

BNA\_F

ClientSampleId :

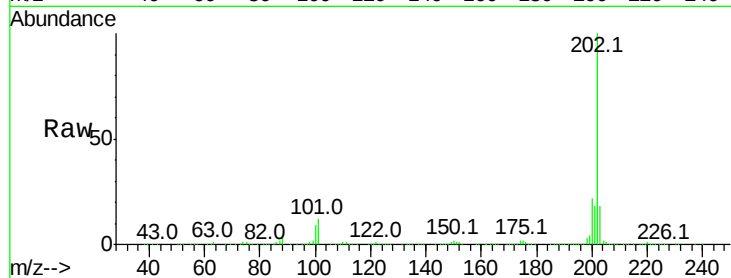
Tot Ion:202 Resp: 499574

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

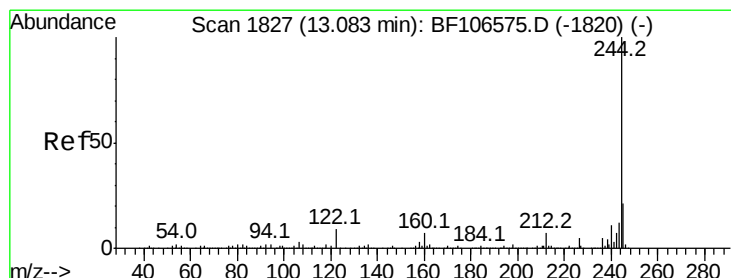
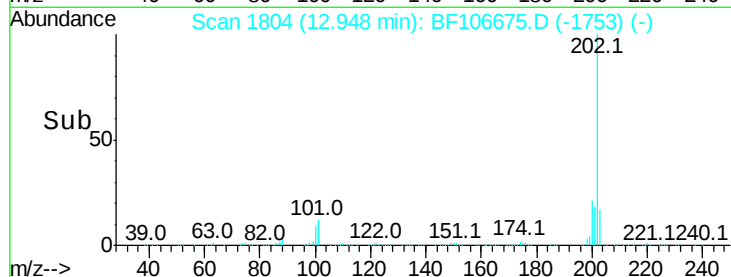
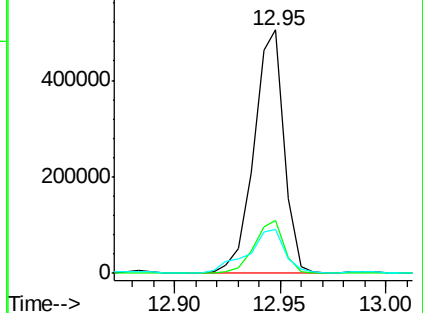
203 17.9 14.3 21.5



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: 64.071 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

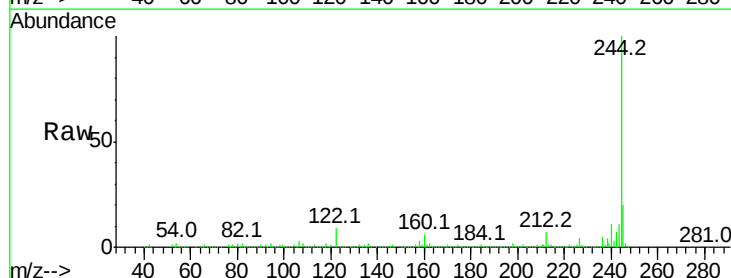
Tgt Ion:244 Resp: 457785

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

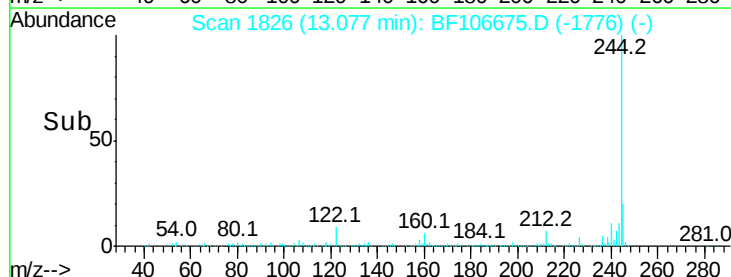
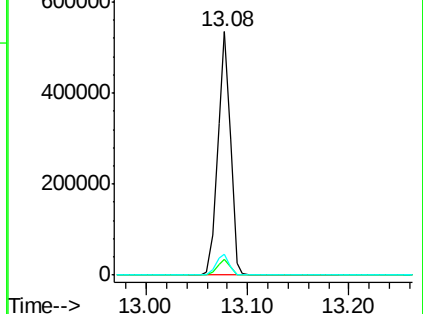
122 8.8 11.0 16.4#

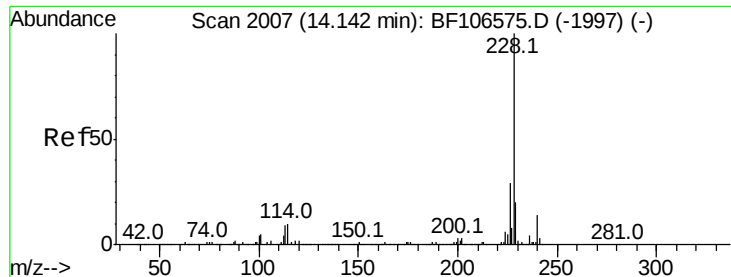


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

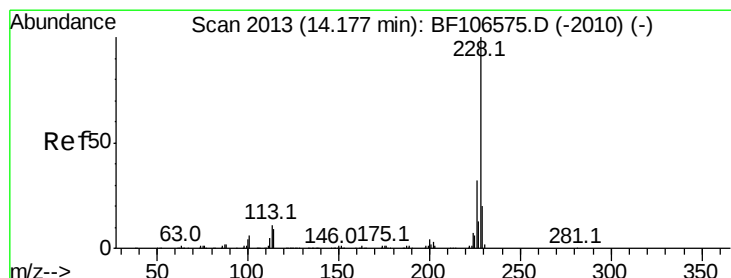
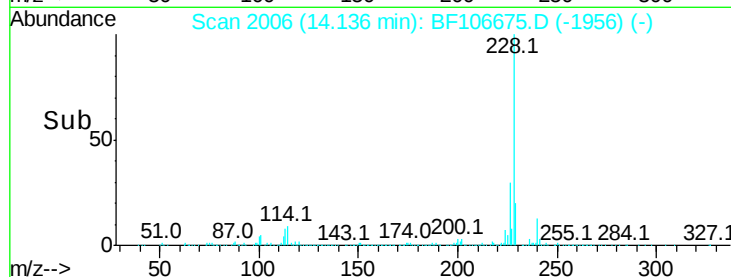
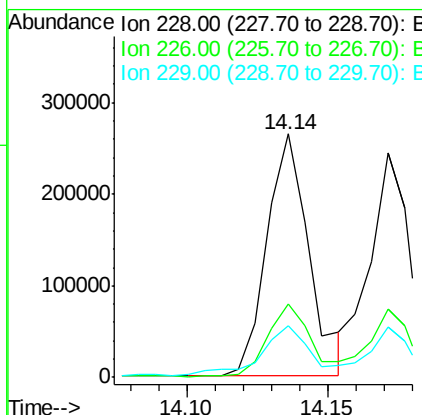
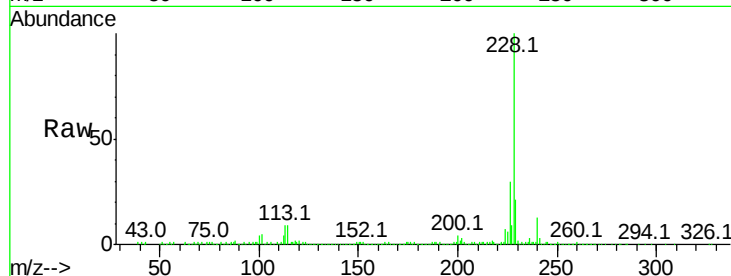




#80  
Benzo(a)anthracene  
Concen: 25.993 ng  
RT: 14.14 min Scan# 2006  
Delta R.T. -0.01 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

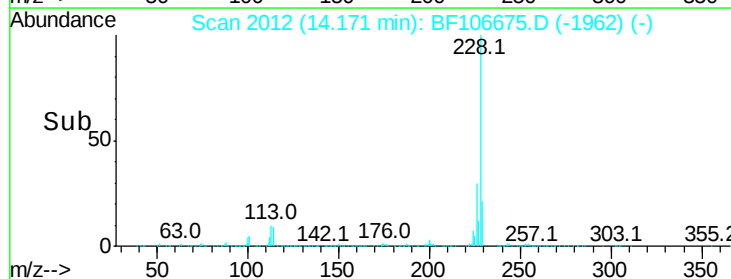
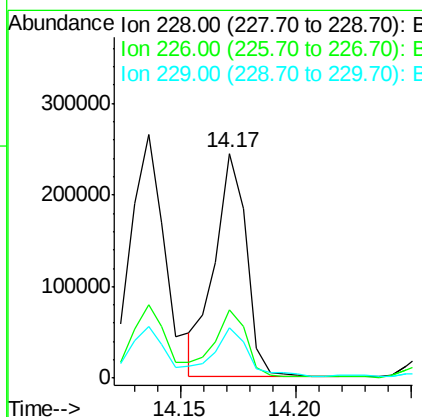
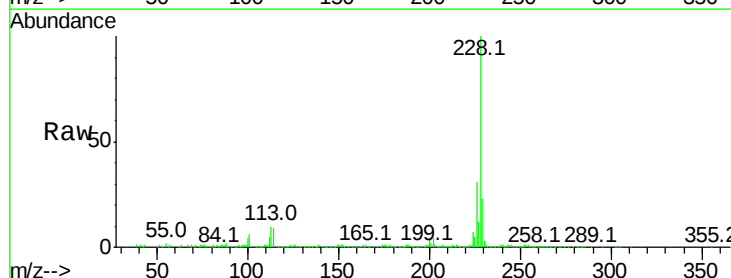
Instrument :  
BNA\_F  
ClientSampleId :

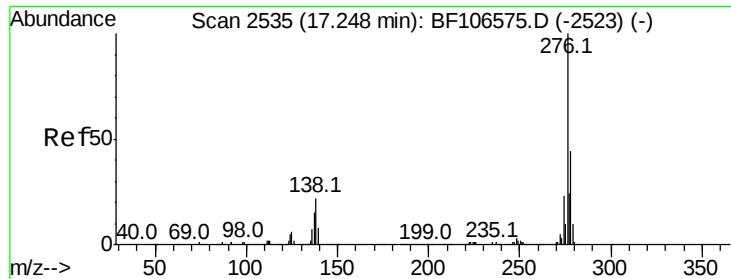
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 22.6  | 33.8  |
| 229     | 21.0  | 15.8  | 23.6  |



#82  
Chrysene  
Concen: 24.010 ng  
RT: 14.17 min Scan# 2012  
Delta R.T. -0.01 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 25.0  | 37.6  |
| 229     | 22.6  | 16.2  | 24.4  |

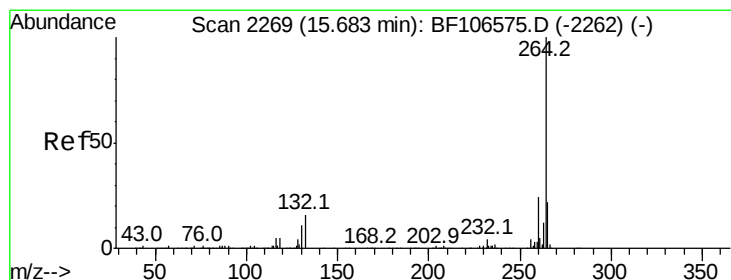
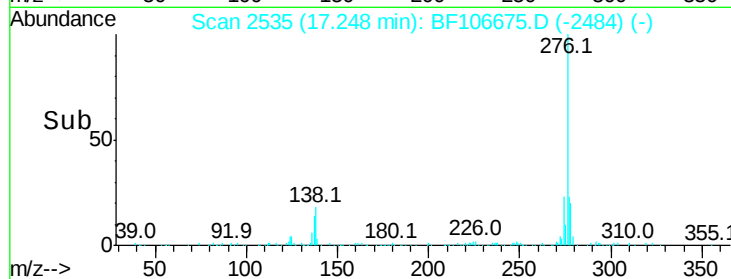
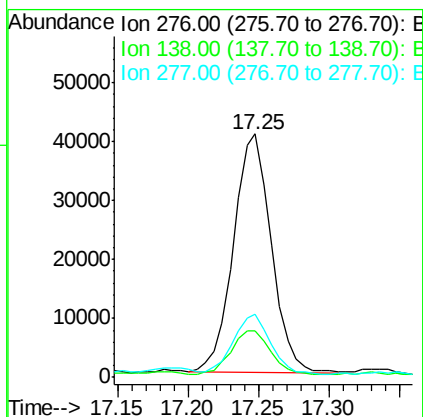
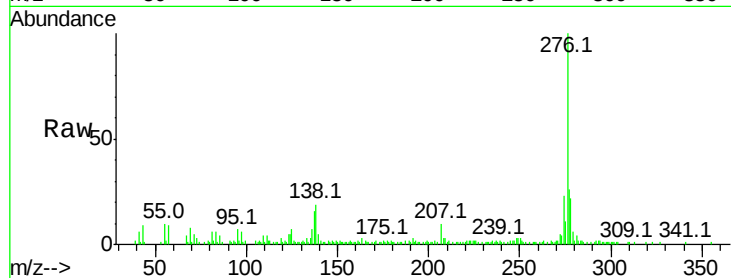




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 9.216 ng  
 RT: 17.25 min Scan# 2535  
 Delta R.T. 0.00 min  
 Lab File: BF106675.D  
 Acq: 21 Jun 2018 21:49

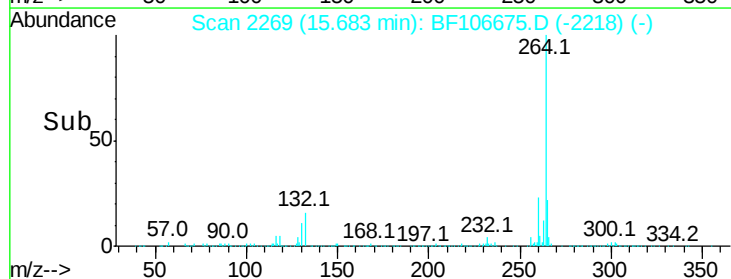
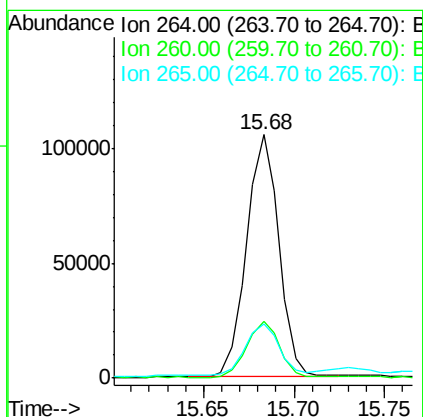
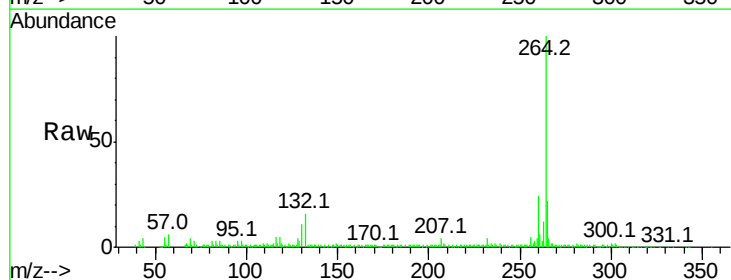
Instrument :  
 BNA\_F  
 ClientSampleId :

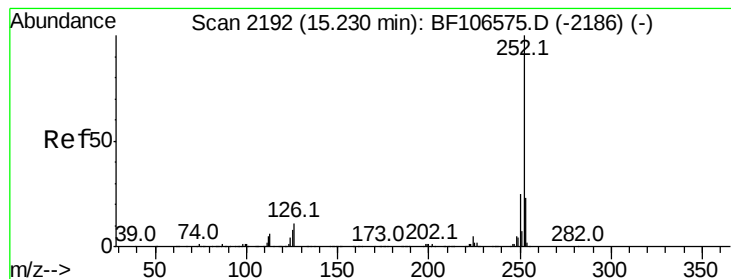
Tot Ion:276 Resp: 75895  
 Ion Ratio Lower Upper  
 276 100  
 138 19.0 25.0 37.6#  
 277 25.5 20.1 30.1



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.68 min Scan# 2269  
 Delta R.T. 0.00 min  
 Lab File: BF106675.D  
 Acq: 21 Jun 2018 21:49

Tgt Ion:264 Resp: 130927  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.2 28.8  
 265 22.4 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 37.489 ng

RT: 15.23 min Scan# 2192

Delta R.T. 0.00 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Instrument :

BNA\_F

ClientSampleId :

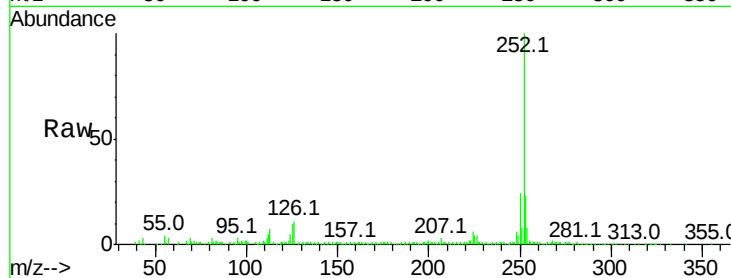
Tot Ion:252 Resp: 304902

Ion Ratio Lower Upper

252 100

253 23.2 17.0 25.6

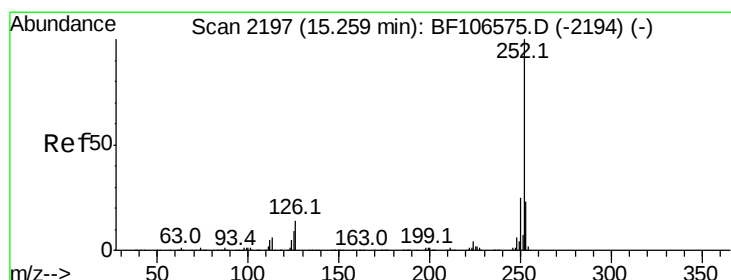
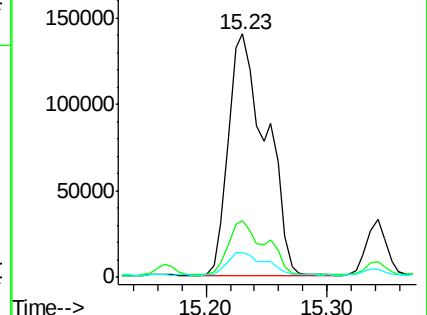
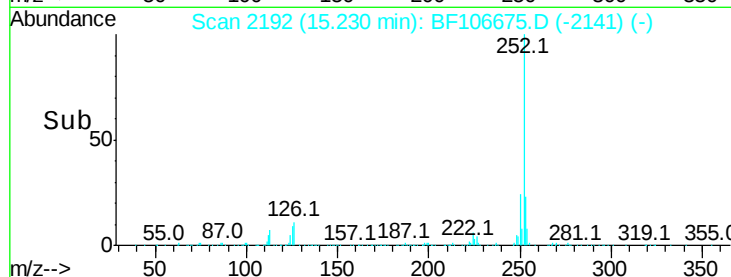
125 10.1 9.0 13.6



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



#88

Benzo(k)fluoranthene

Concen: 39.367 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.03 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

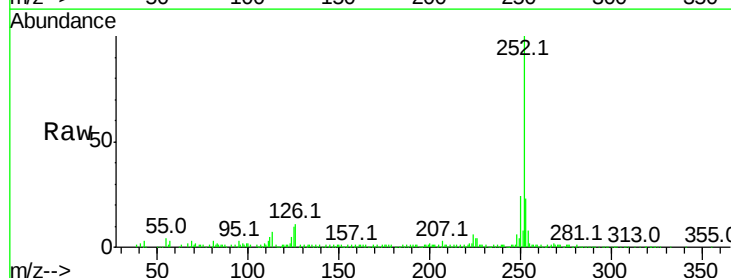
Tgt Ion:252 Resp: 304902

Ion Ratio Lower Upper

252 100

253 23.2 17.9 26.9

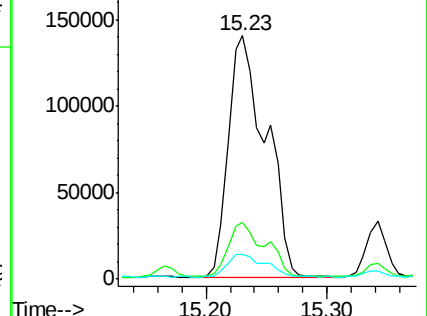
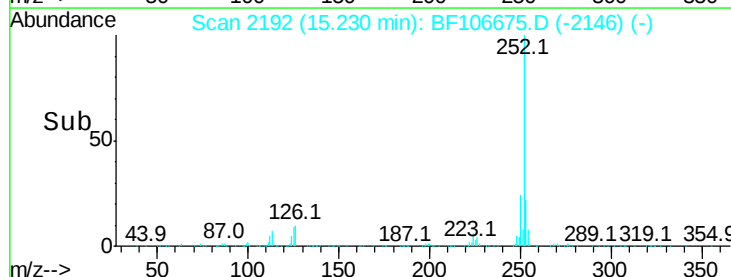
125 10.1 10.2 15.2#

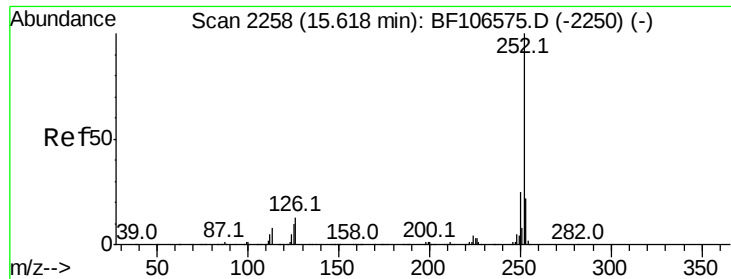


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

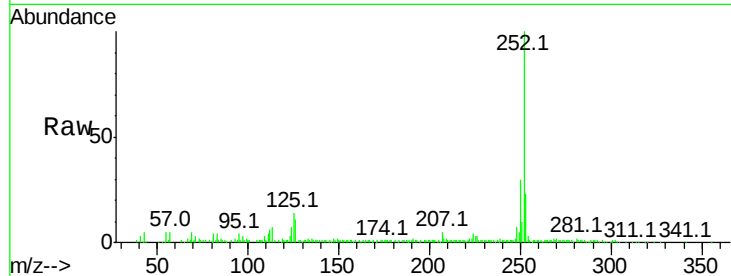




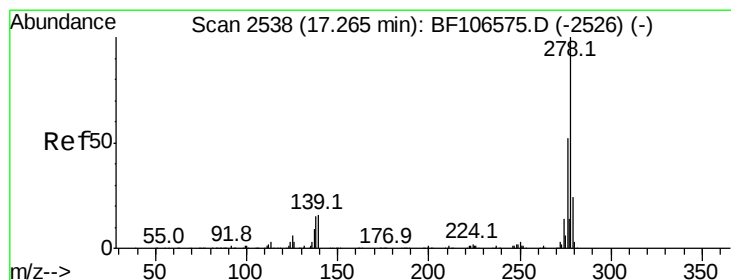
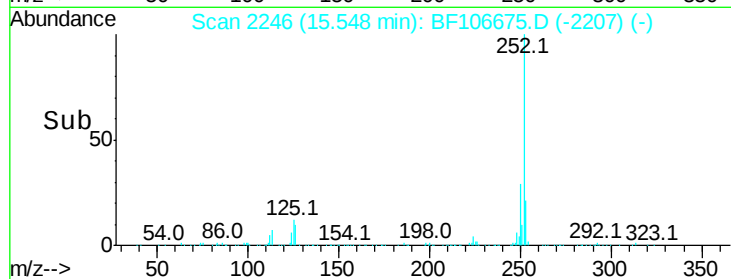
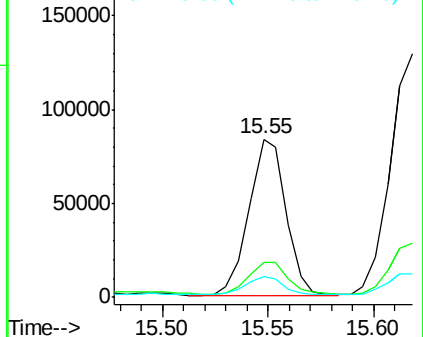
#89  
Benzo(a)pyrene  
Concen: 14.049 ng  
RT: 15.55 min Scan# 2246  
Delta R.T. -0.07 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 101576  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.1 25.7  
125 13.5 9.8 14.6

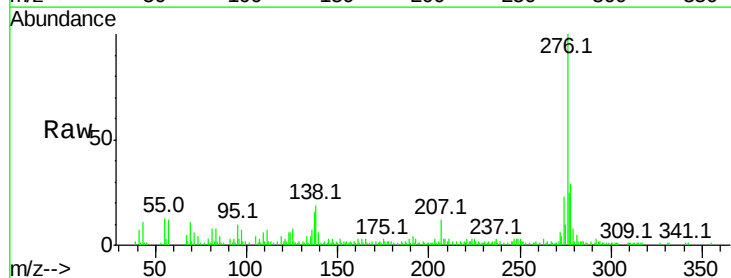


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

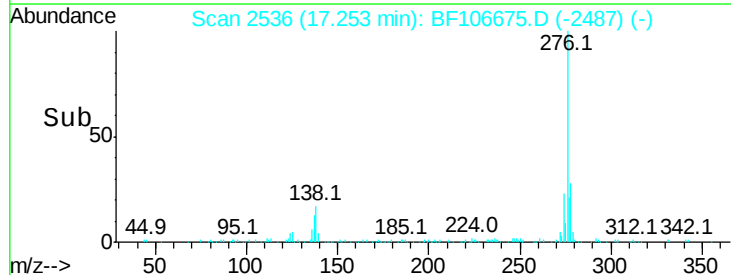
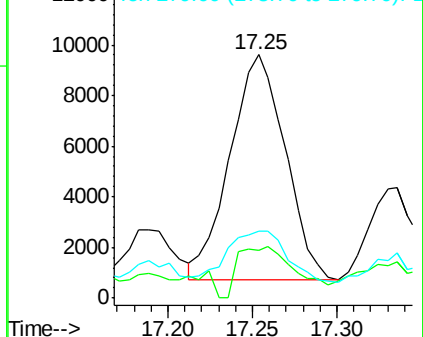


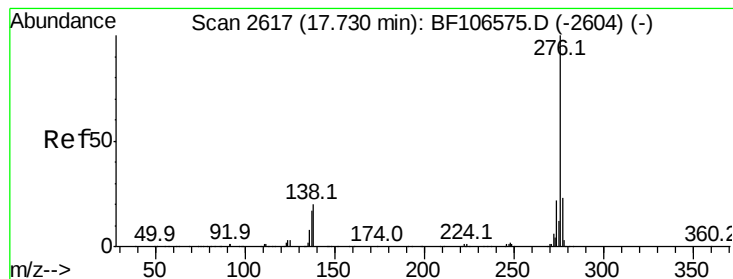
#90  
Dibenzo(a,h)anthracene  
Concen: 3.284 ng  
RT: 17.25 min Scan# 2536  
Delta R.T. -0.01 min  
Lab File: BF106675.D  
Acq: 21 Jun 2018 21:49

Tgt Ion:278 Resp: 20120  
Ion Ratio Lower Upper  
278 100  
139 19.8 15.9 23.9  
279 27.3 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 12.111 ng

RT: 17.72 min Scan# 2616

Delta R.T. -0.01 min

Lab File: BF106675.D

Acq: 21 Jun 2018 21:49

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:276 Resp: 72532

Ion Ratio Lower Upper

276 100

277 24.9 17.9 26.9

138 19.6 21.8 32.8#

