

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
 Data File : BF103407.D  
 Acq On : 5 Mar 2018 14:10  
 Operator : SJ/JU  
 Sample : J1751-03 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 05 15:13:07 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 05 13:40:47 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 138143   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 571680   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 243629   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.41 | 188  | 365997   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.07 | 240  | 228833   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.59 | 264  | 196131   | 20.00 | ng    | 0.01     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.50  | 112 | 535398 | 58.62 | ng | 0.00 |
| 7) Phenol-d6                | 6.52  | 99  | 641082 | 57.36 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.43  | 82  | 367525 | 36.71 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.71 | 330 | 86264  | 41.83 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.23  | 172 | 544934 | 32.55 | ng | 0.00 |
| 78) Terphenyl-d14           | 12.99 | 244 | 359275 | 37.74 | ng | 0.00 |

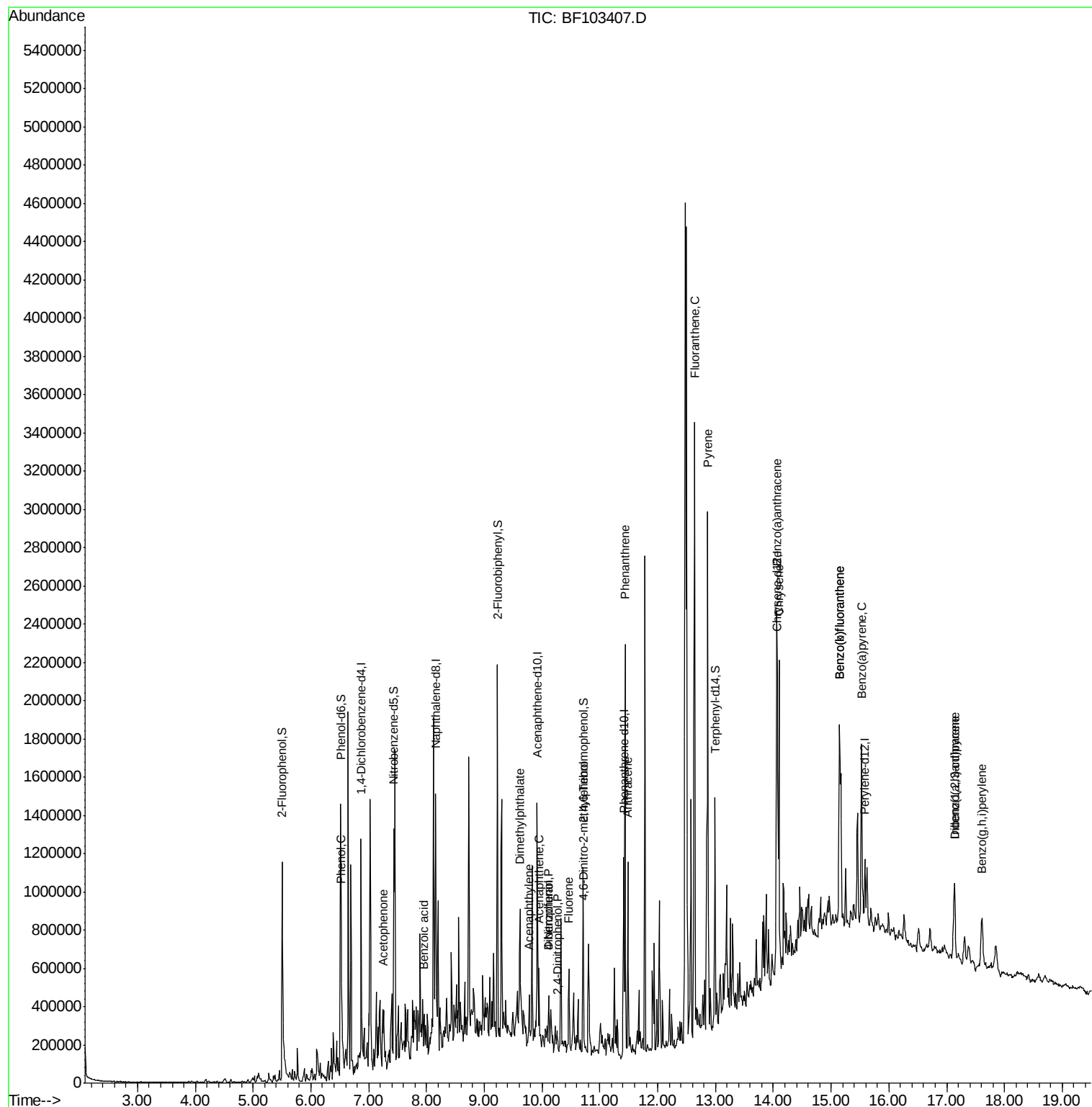
|                                |       |     |         |           |   |    |
|--------------------------------|-------|-----|---------|-----------|---|----|
| Target Compounds               |       |     |         | Qvalue    |   |    |
| 9) Benzaldehyde                | 6.42  | 77  | 2084    | Below Cal | # | 1  |
| 10) Phenol                     | 6.53  | 94  | 27049   | 2.085 ng  | # | 54 |
| 22) Acetophenone               | 7.26  | 105 | 42403   | 3.178 ng  | # | 61 |
| 32) Benzoic acid               | 7.96  | 122 | 907     | 7.046 ng  | # | 1  |
| 48) Acenaphthylene             | 9.77  | 152 | 80924   | 3.257 ng  |   | 98 |
| 49) Dimethylphthalate          | 9.62  | 163 | 127523  | 6.525 ng  |   | 98 |
| 51) Acenaphthene               | 9.95  | 154 | 75463   | 5.208 ng  |   | 99 |
| 53) 2,4-Dinitrophenol          | 10.27 | 184 | 256     | 9.773 ng  | # | 78 |
| 54) Dibenzofuran               | 10.12 | 168 | 61884   | 3.111 ng  |   | 98 |
| 55) 4-Nitrophenol              | 10.12 | 139 | 25636   | 7.949 ng  | # | 19 |
| 57) Fluorene                   | 10.46 | 166 | 110959  | 6.548 ng  |   | 98 |
| 64) 4,6-Dinitro-2-methylphenol | 10.72 | 198 | 811     | 5.272 ng  | # | 1  |
| 70) Phenanthrene               | 11.44 | 178 | 853049  | 42.352 ng |   | 99 |
| 71) Anthracene                 | 11.49 | 178 | 343625  | 16.637 ng |   | 99 |
| 74) Fluoranthene               | 12.64 | 202 | 1489562 | 73.593 ng |   | 99 |
| 77) Pyrene                     | 12.87 | 202 | 1371474 | 76.871 ng |   | 99 |
| 80) Benzo(a)anthracene         | 14.06 | 228 | 743925  | 50.104 ng |   | 97 |
| 82) Chrysene                   | 14.10 | 228 | 602128  | 41.766 ng |   | 98 |
| 85) Indeno(1,2,3-cd)pyrene     | 17.14 | 276 | 257442  | 22.556 ng |   | 95 |
| 87) Benzo(b)fluoranthene       | 15.14 | 252 | 1007915 | 78.161 ng | # | 94 |
| 88) Benzo(k)fluoranthene       | 15.14 | 252 | 1007915 | 83.003 ng |   | 97 |
| 89) Benzo(a)pyrene             | 15.53 | 252 | 522581  | 45.380 ng |   | 95 |
| 90) Dibenz(a,h)anthracene      | 17.13 | 278 | 71079   | 7.988 ng  | # | 82 |
| 91) Benzo(g,h,i)perylene       | 17.61 | 276 | 228550  | 26.280 ng |   | 93 |

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

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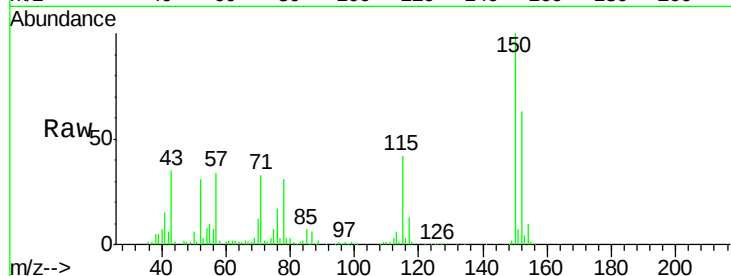


#1

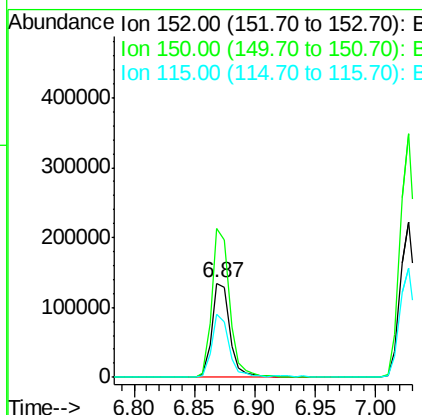
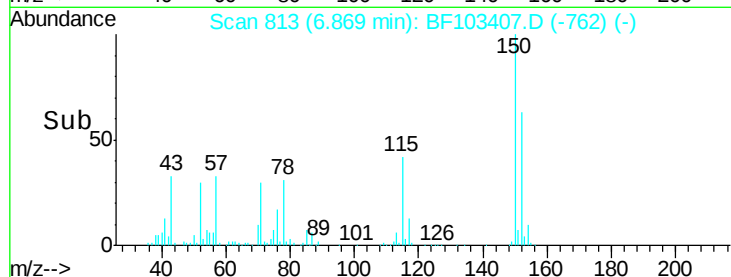
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.00 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 138143  
Ion Ratio Lower Upper  
152 100  
150 159.1 124.6 186.8  
115 67.3 50.1 75.1



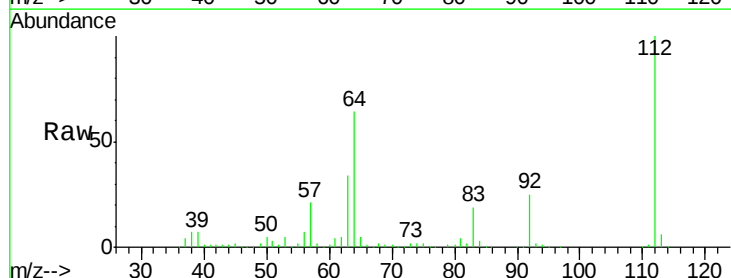
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



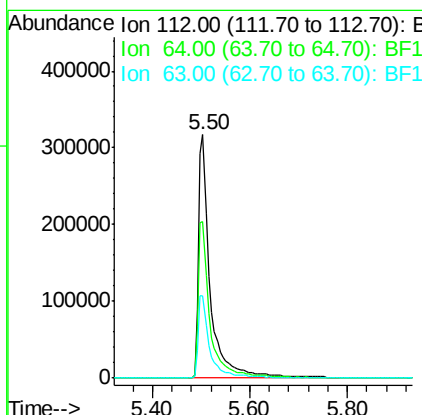
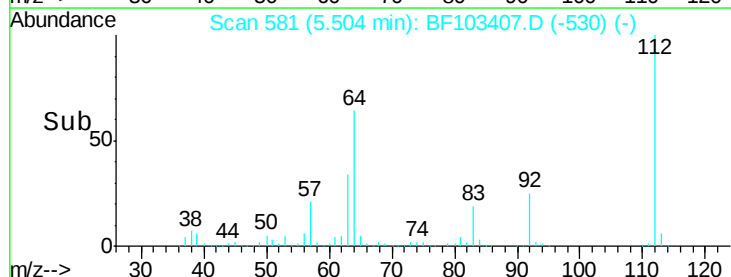
#5

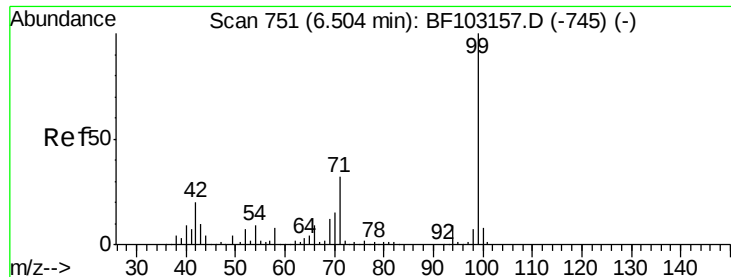
2-Fluorophenol  
Concen: 58.617 ng  
RT: 5.50 min Scan# 581  
Delta R.T. -0.00 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

Tgt Ion:112 Resp: 535398  
Ion Ratio Lower Upper  
112 100  
64 64.4 47.9 71.9  
63 33.6 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: 57.359 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampleId :

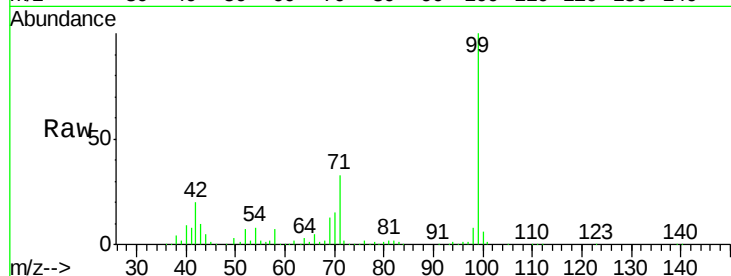
Tot Ion: 99 Resp: 641082

Ion Ratio Lower Upper

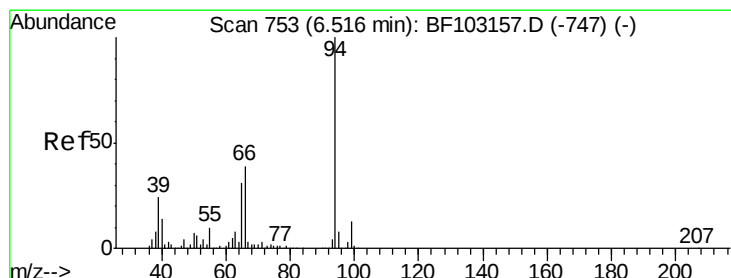
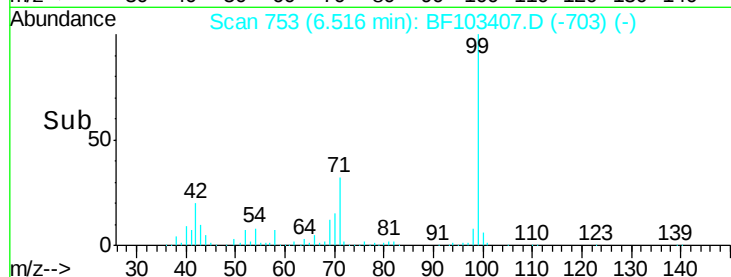
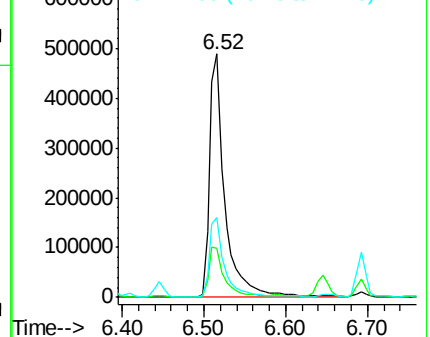
99 100

42 20.4 14.5 21.7

71 32.5 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



#10

Phenol

Concen: 2.085 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

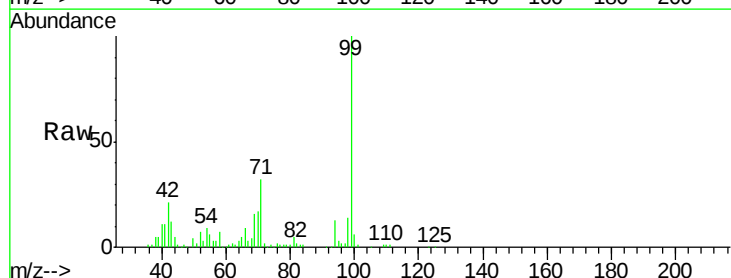
Tgt Ion: 94 Resp: 27049

Ion Ratio Lower Upper

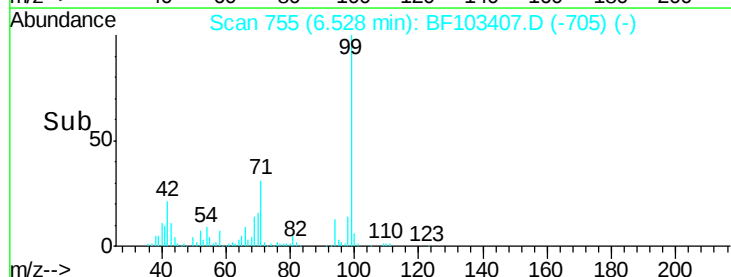
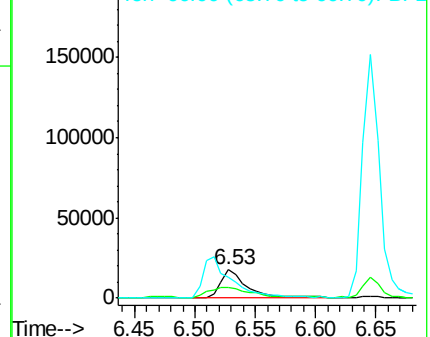
94 100

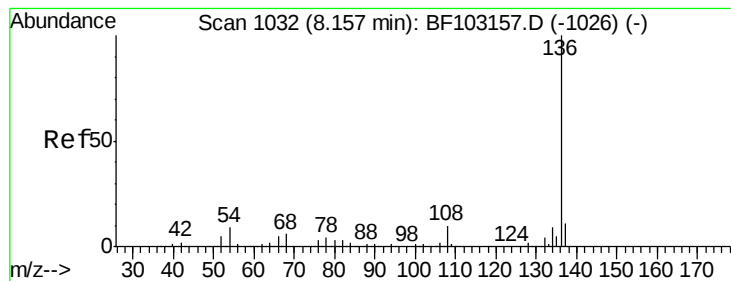
65 39.5 7.9 47.9

66 74.2 16.2 56.2#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 571680

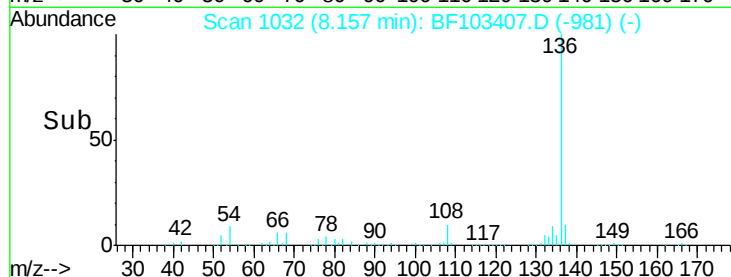
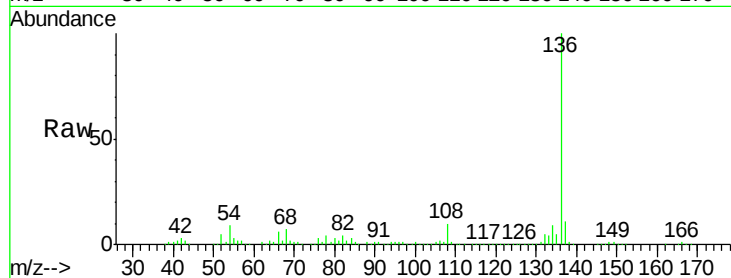
Ion Ratio Lower Upper

136 100

137 10.6 8.9 13.3

54 9.2 6.6 9.8

68 6.7 5.0 7.4

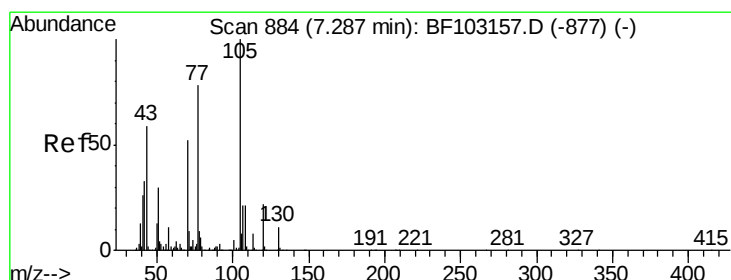
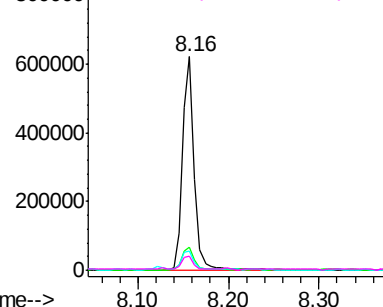


Abundance Ion 136.00 (135.70 to 136.70): E

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



#22

Acetophenone

Concen: 3.178 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.03 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Tgt Ion:105 Resp: 42403

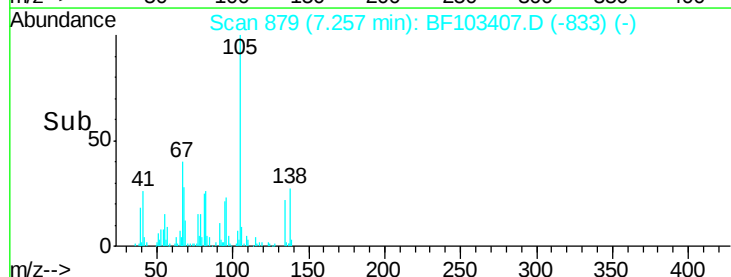
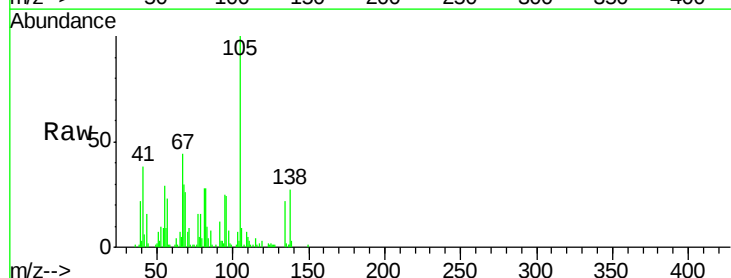
Ion Ratio Lower Upper

105 100

71 9.2 4.4 6.6#

51 7.0 22.3 33.5#

120 0.0 16.9 25.3#

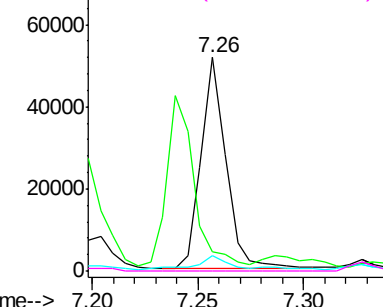


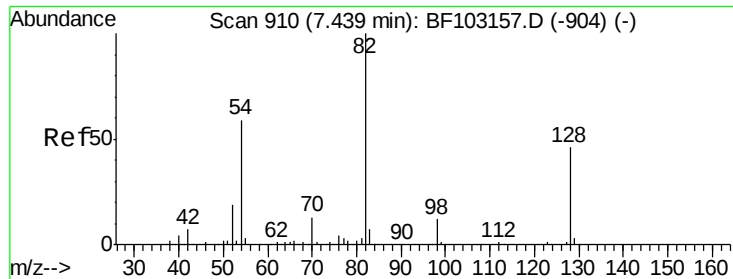
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E

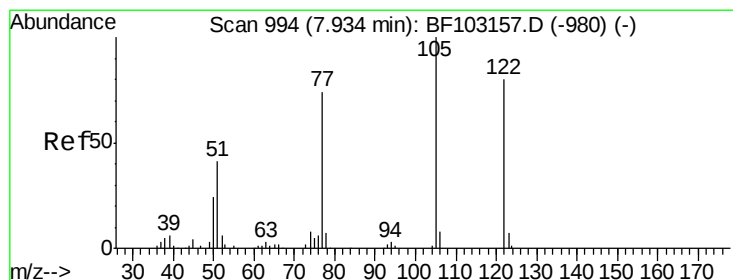
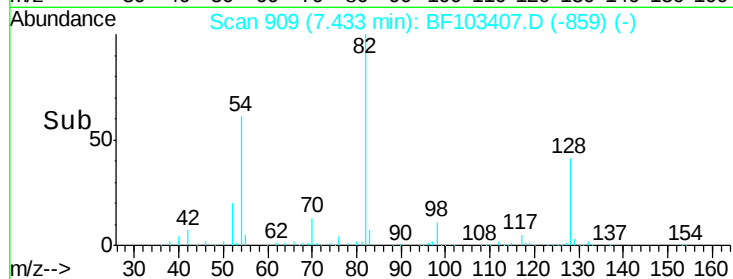
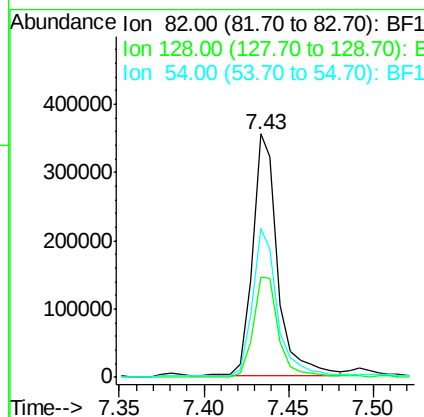
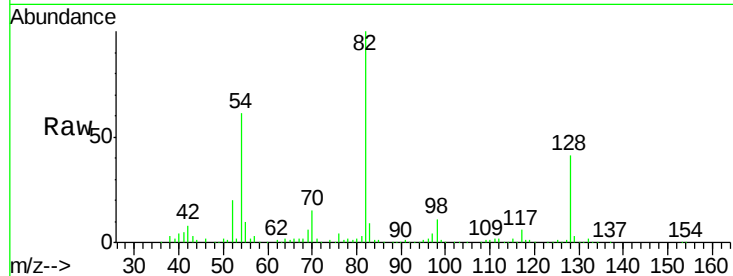




#23  
 Nitrobenzene-d5  
 Concen: 36.714 ng  
 RT: 7.43 min Scan# 909  
 Delta R.T. -0.01 min  
 Lab File: BF103407.D  
 Acq: 5 Mar 2018 14:10

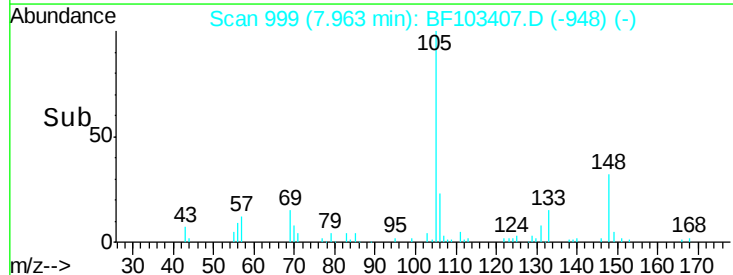
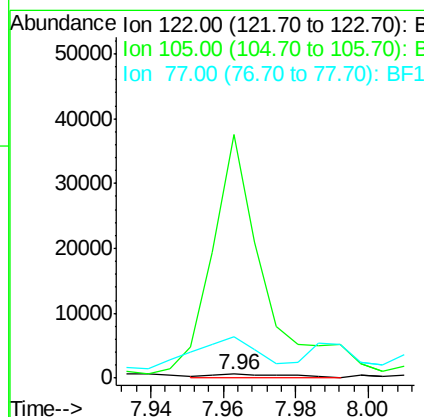
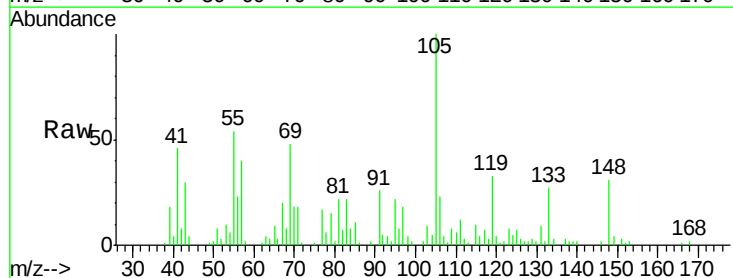
Instrument :  
 BNA\_F  
 ClientSampled :

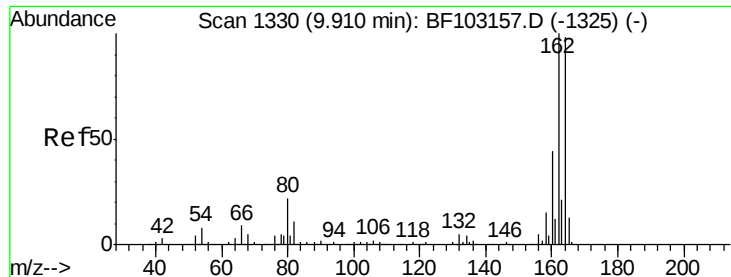
Tot Ion: 82 Resp: 367525  
 Ion Ratio Lower Upper  
 82 100  
 128 41.2 36.1 54.1  
 54 61.1 41.4 62.2



#32  
 Benzoic acid  
 Concen: 7.046 ng  
 RT: 7.96 min Scan# 999  
 Delta R.T. -0.00 min  
 Lab File: BF103407.D  
 Acq: 5 Mar 2018 14:10

Tgt Ion:122 Resp: 907  
 Ion Ratio Lower Upper  
 122 100  
 105 6374.2 101.1 141.1#  
 77 1091.0 70.7 110.7#

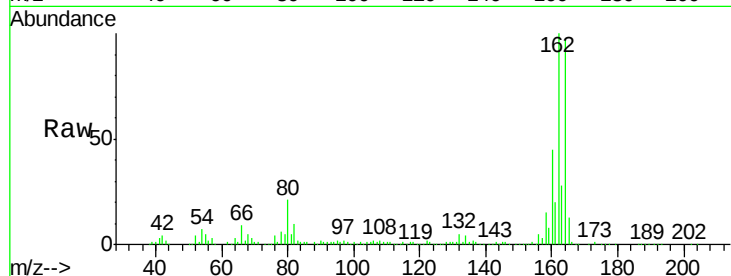




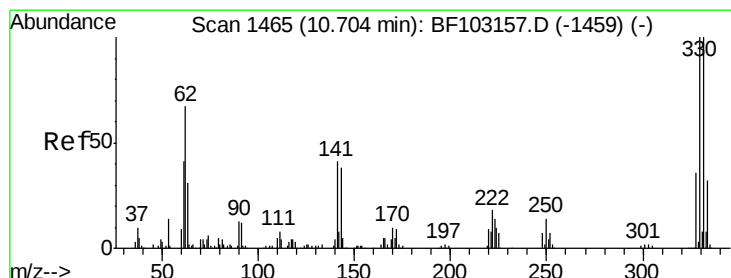
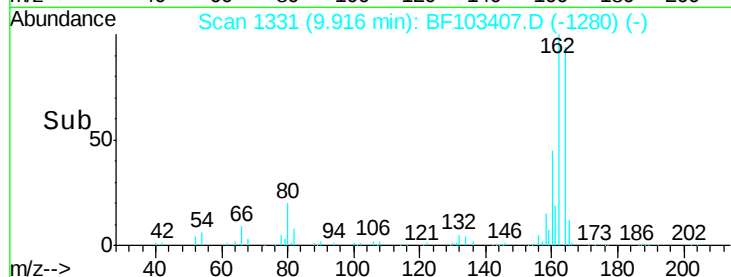
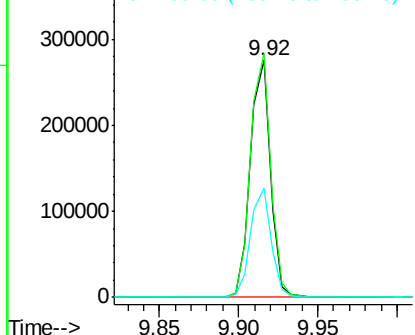
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. -0.00 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 243629  
Ion Ratio Lower Upper  
164 100  
162 102.8 86.1 129.1  
160 46.0 38.3 57.5

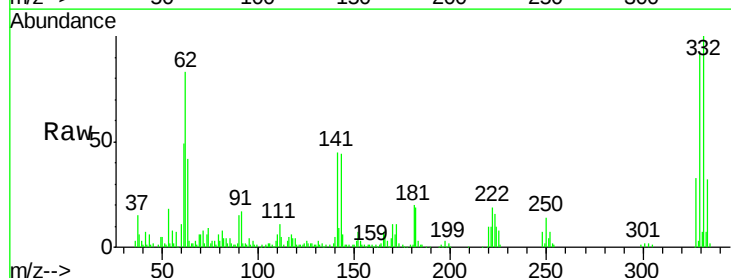


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

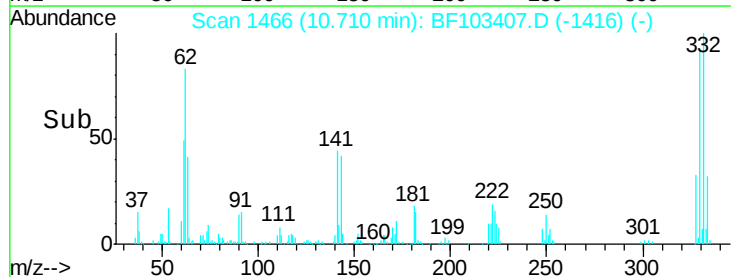
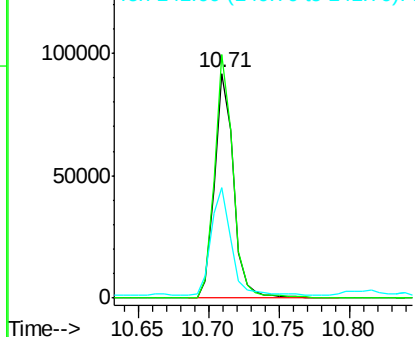


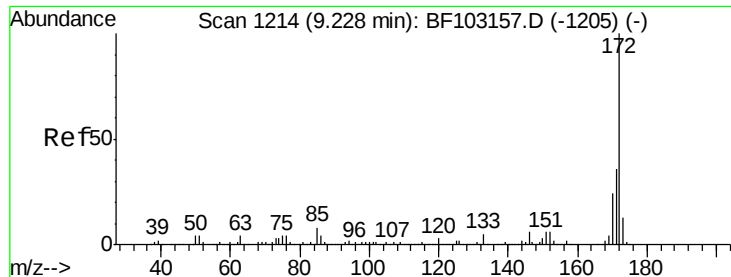
#41  
2,4,6-Tribromophenol  
Concen: 41.831 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.01 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

Tgt Ion:330 Resp: 86264  
Ion Ratio Lower Upper  
330 100  
332 105.0 77.0 115.6  
141 49.9 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

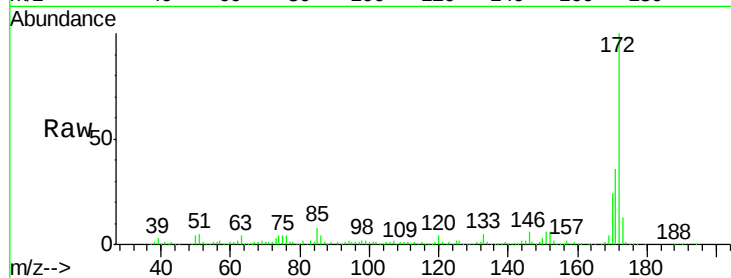




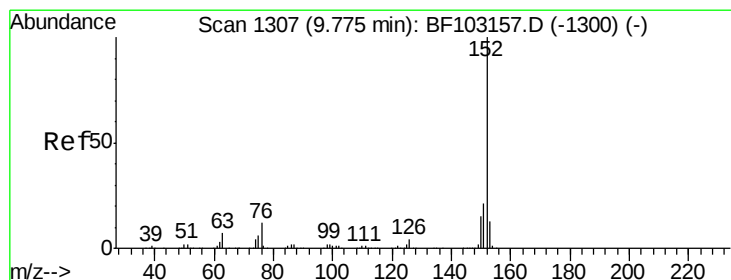
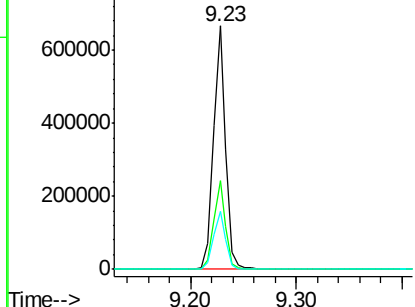
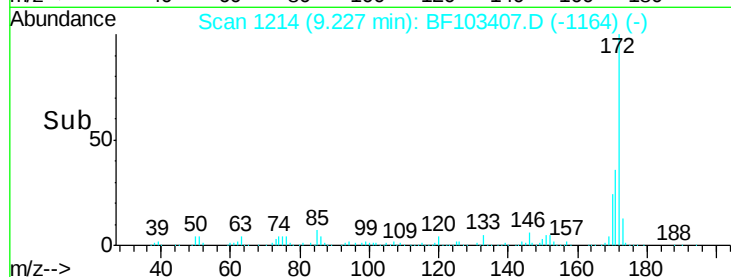
#44  
2-Fluorobiphenyl  
Concen: 32.552 ng  
RT: 9.23 min Scan# 1214  
Delta R.T. -0.01 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 544934  
Ion Ratio Lower Upper  
172 100  
171 36.3 29.7 44.5  
170 24.0 19.6 29.4

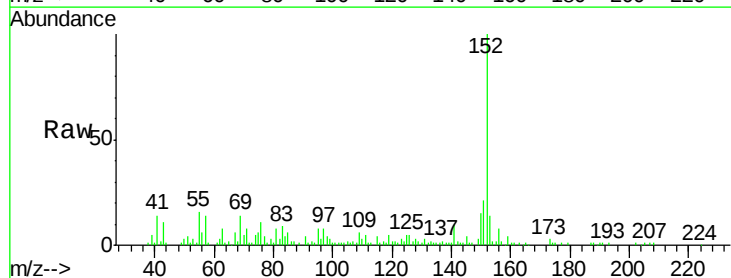


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

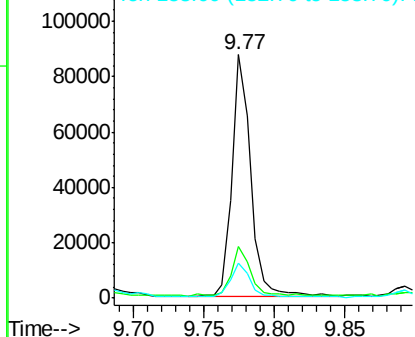
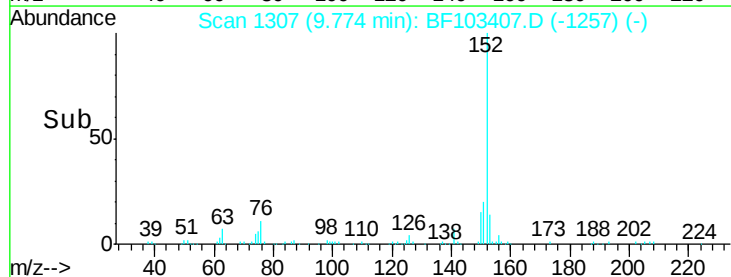


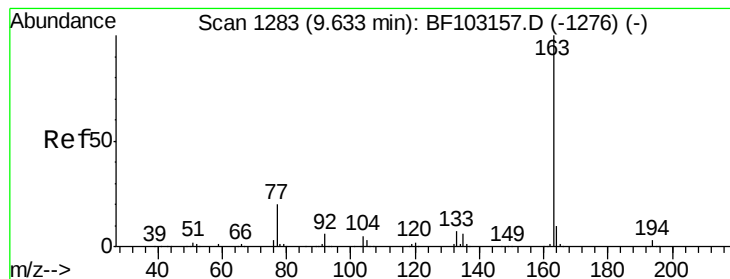
#48  
Acenaphthylene  
Concen: 3.257 ng  
RT: 9.77 min Scan# 1307  
Delta R.T. -0.01 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

Tgt Ion:152 Resp: 80924  
Ion Ratio Lower Upper  
152 100  
151 21.1 16.3 24.5  
153 14.5 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





#49

Dimethylphthalate

Concen: 6.525 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampleId :

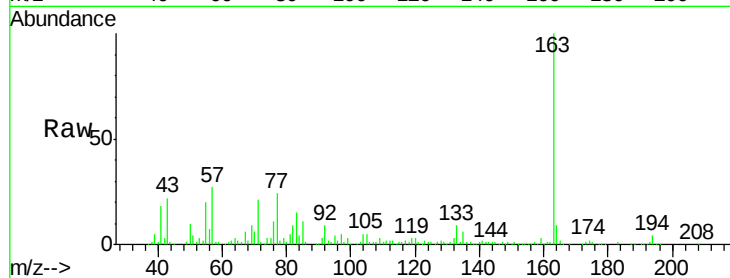
Tot Ion:163 Resp: 127523

Ion Ratio Lower Upper

163 100

194 3.7 2.7 4.1

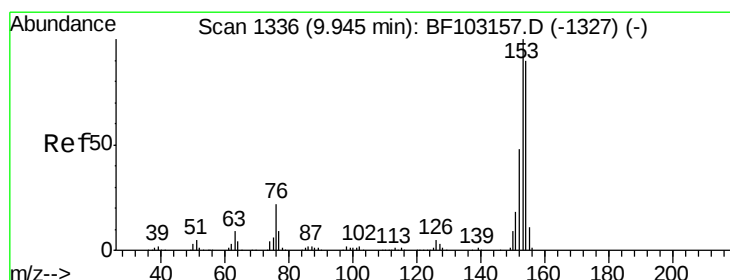
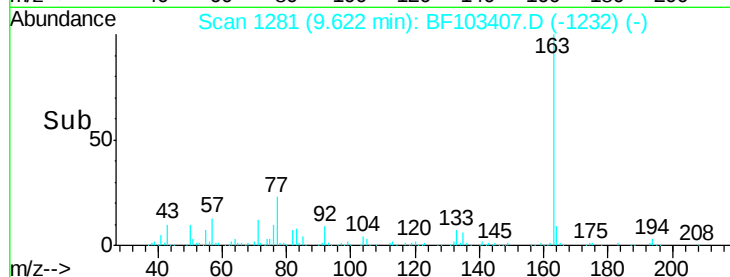
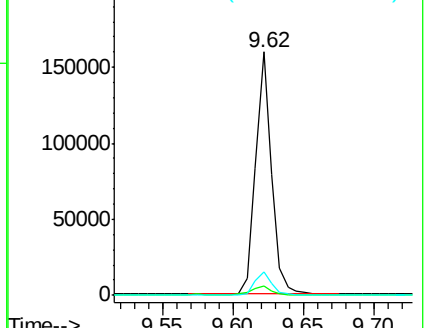
164 9.5 8.2 12.2



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: 5.208 ng

RT: 9.95 min Scan# 1336

Delta R.T. -0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

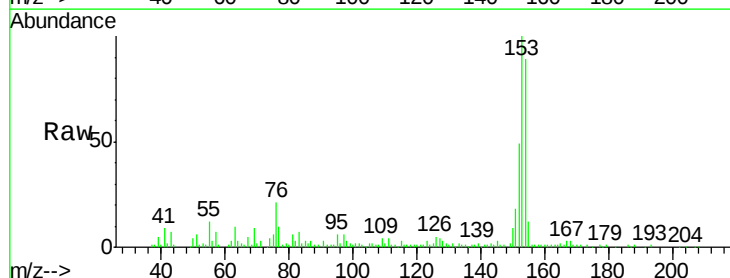
Tgt Ion:154 Resp: 75463

Ion Ratio Lower Upper

154 100

153 112.7 91.2 136.8

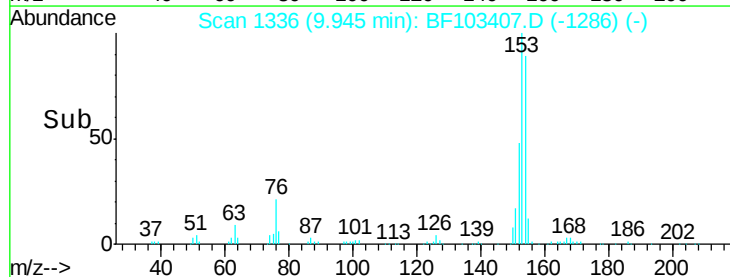
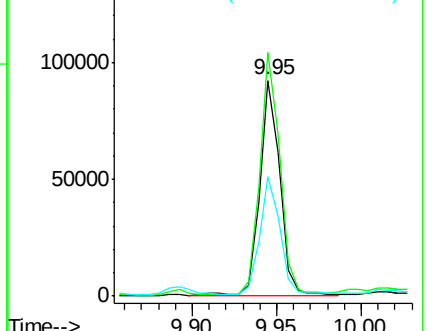
152 55.2 43.8 65.8

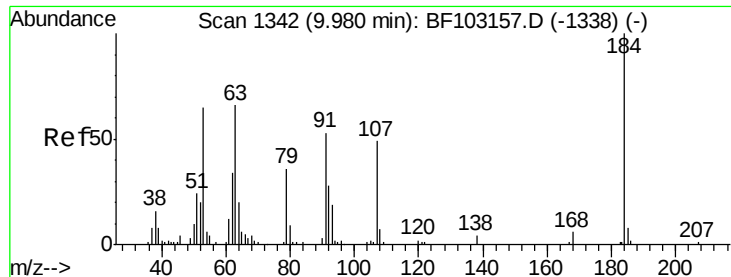


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

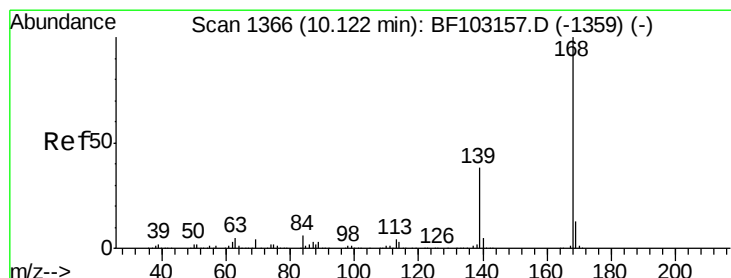
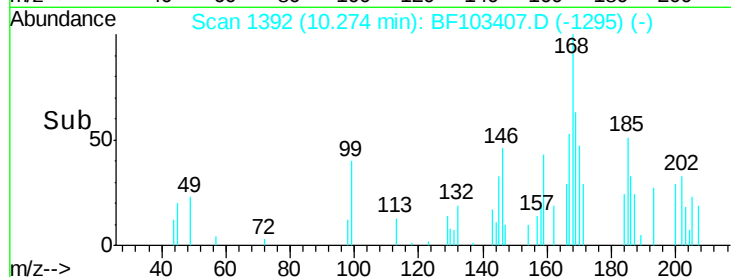
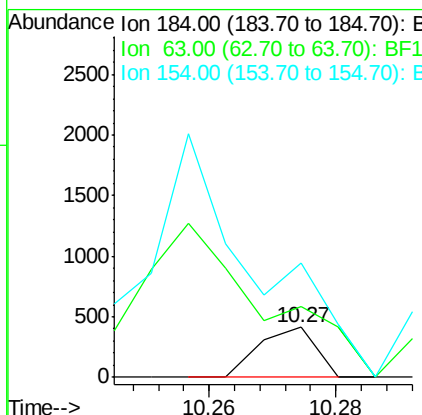
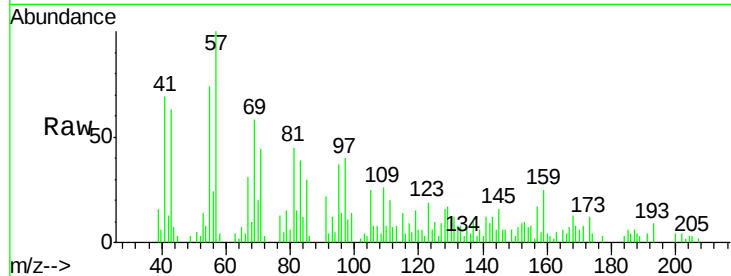




#53  
2,4-Dinitrophenol  
Concen: 9.773 ng  
RT: 10.27 min Scan# 1392  
Delta R.T. 0.27 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

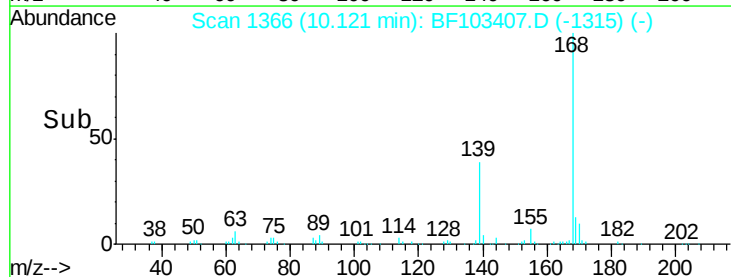
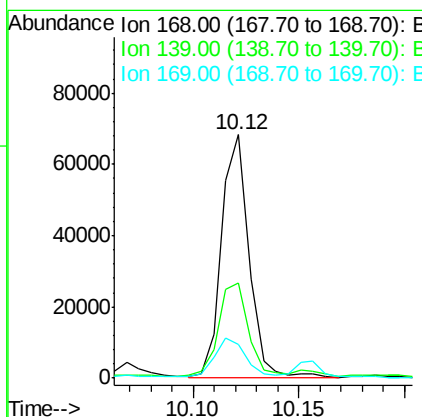
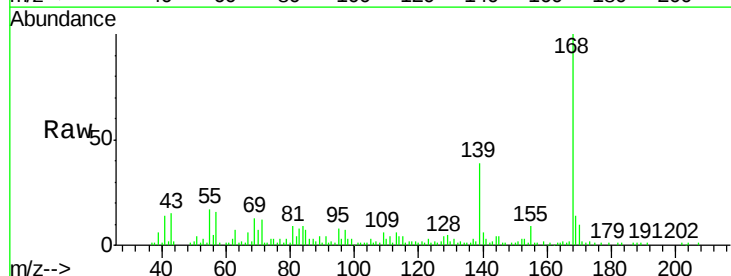
Instrument :  
BNA\_F  
ClientSampleId :

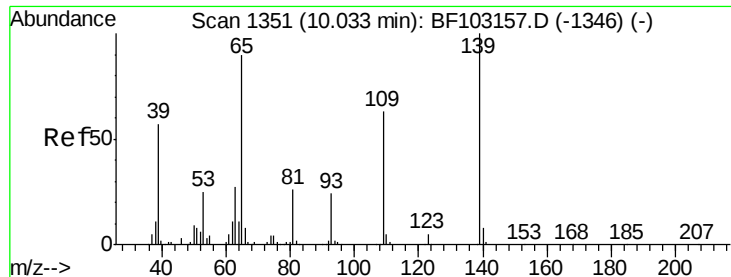
Tot Ion:184 Resp: 256  
Ion Ratio Lower Upper  
184 100  
63 141.9 54.2 81.2#  
154 228.0 184.0 276.0



#54  
Dibenzofuran  
Concen: 3.111 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. -0.00 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

Tgt Ion:168 Resp: 61884  
Ion Ratio Lower Upper  
168 100  
139 39.2 30.1 45.1  
169 13.8 10.9 16.3





#55

4-Nitrophenol

Concen: 7.949 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.05 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampleId :

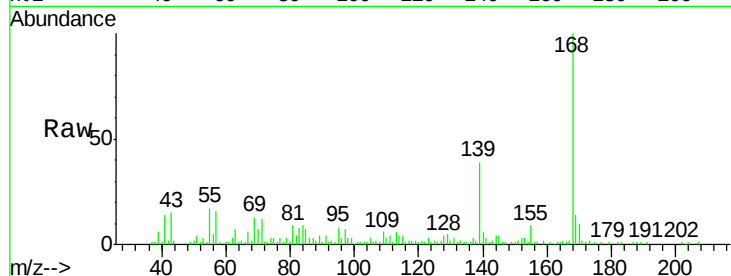
Tot Ion:139 Resp: 25636

Ion Ratio Lower Upper

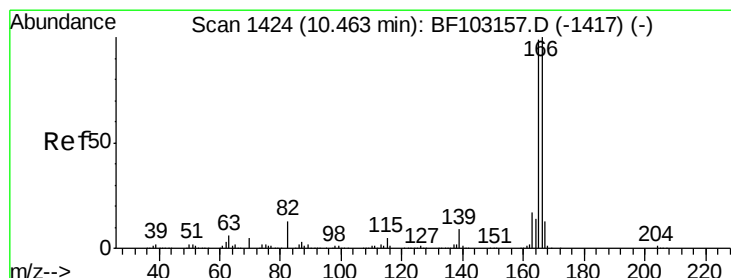
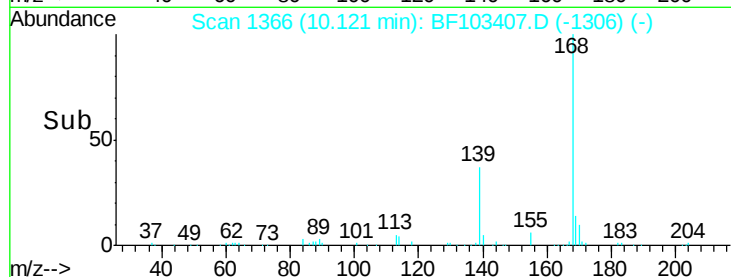
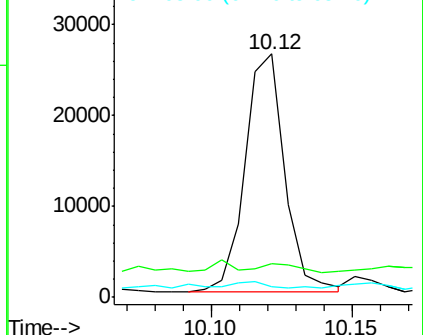
139 100

109 14.1 48.4 88.4#

65 4.4 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: 6.548 ng

RT: 10.46 min Scan# 1424

Delta R.T. -0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

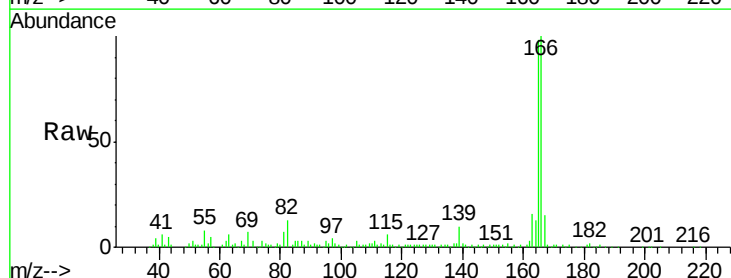
Tgt Ion:166 Resp: 110959

Ion Ratio Lower Upper

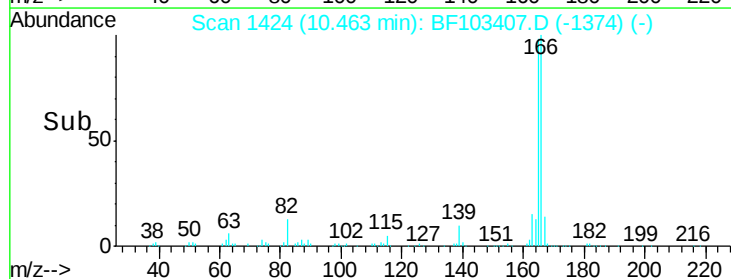
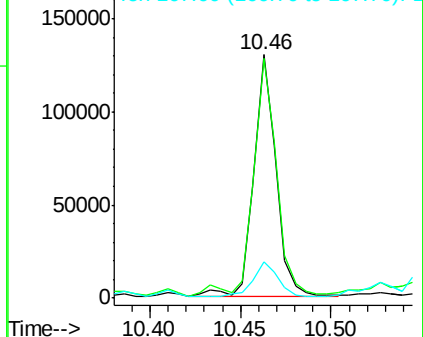
166 100

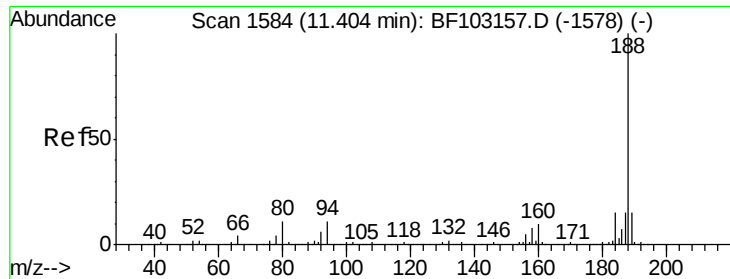
165 98.4 79.8 119.8

167 14.8 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: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampleId :

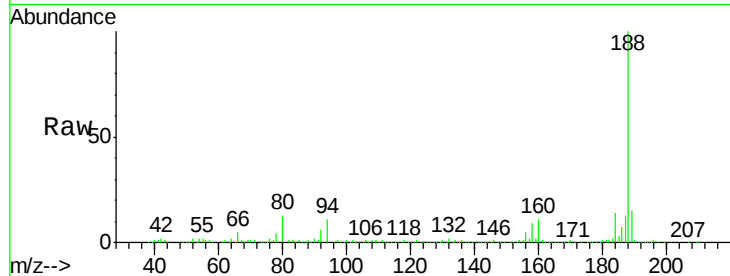
Tot Ion:188 Resp: 365997

Ion Ratio Lower Upper

188 100

94 11.1 8.5 12.7

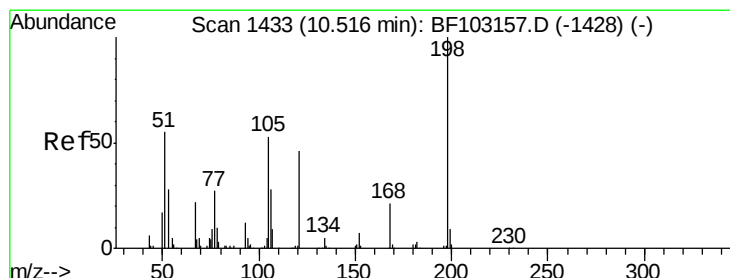
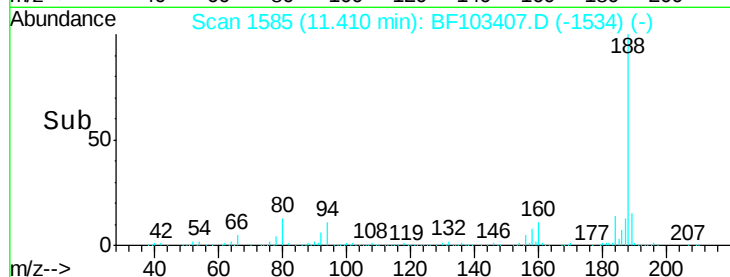
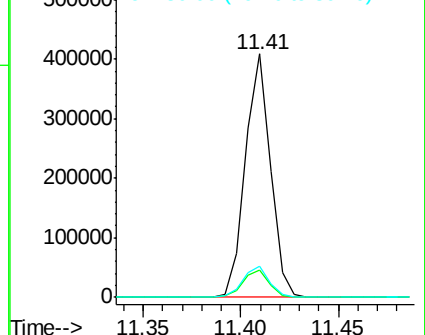
80 12.9 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#64

4,6-Dinitro-2-methylphenol

Concen: 5.272 ng

RT: 10.72 min Scan# 1468

Delta R.T. 0.19 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

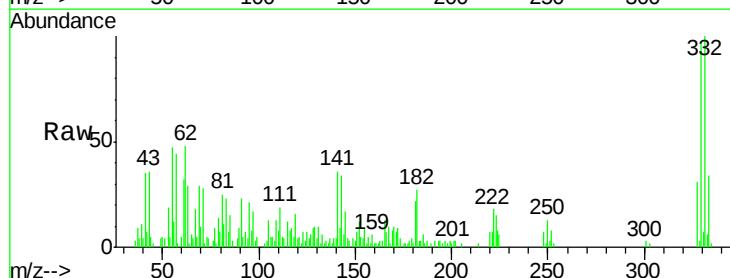
Tgt Ion:198 Resp: 811

Ion Ratio Lower Upper

198 100

51 169.4 37.7 77.7#

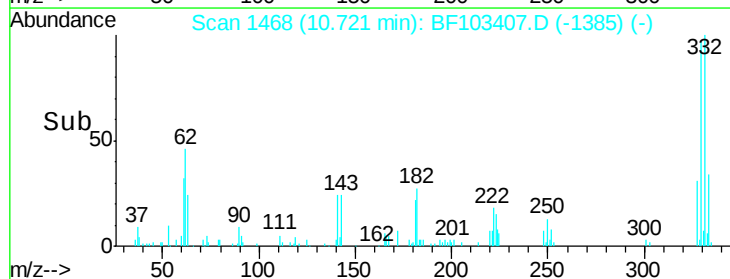
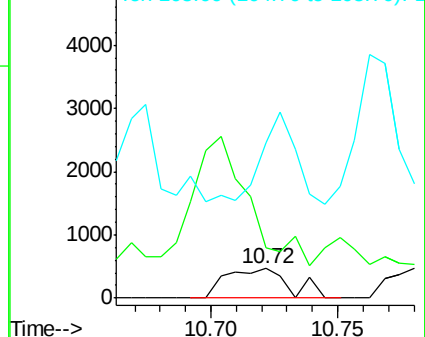
105 526.5 36.3 76.3#

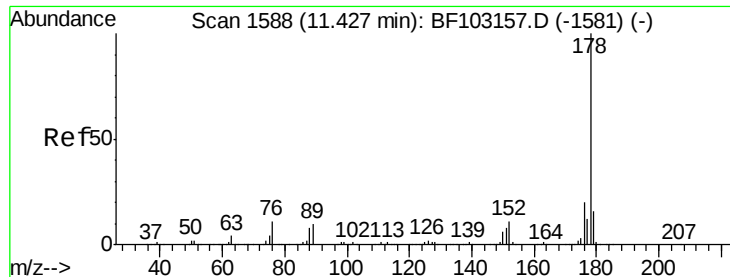


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 42.352 ng

RT: 11.44 min Scan# 1590

Delta R.T. 0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampled :

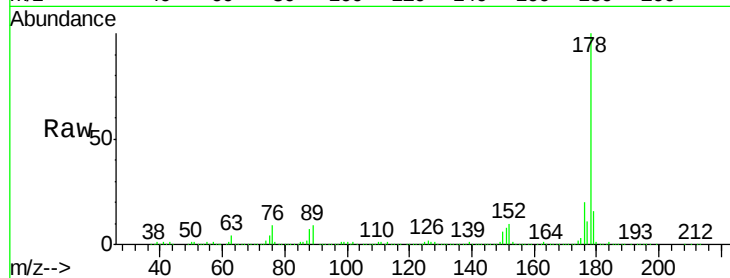
Tot Ion:178 Resp: 853049

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.8

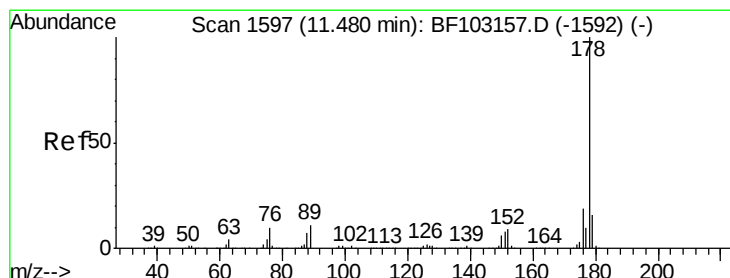
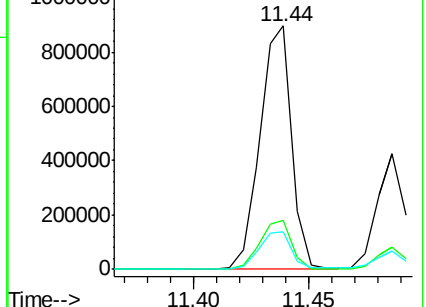
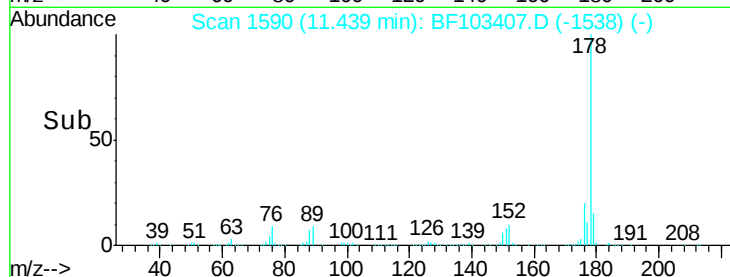
179 15.6 13.0 19.6



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: 16.637 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.00 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

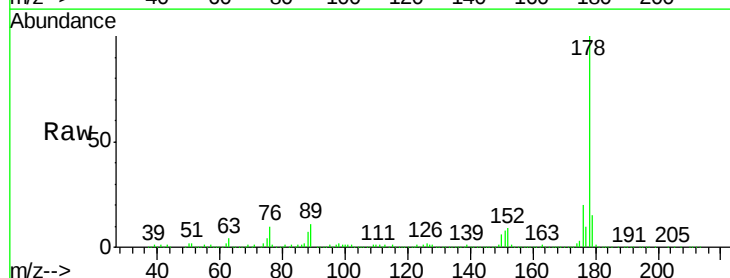
Tgt Ion:178 Resp: 343625

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

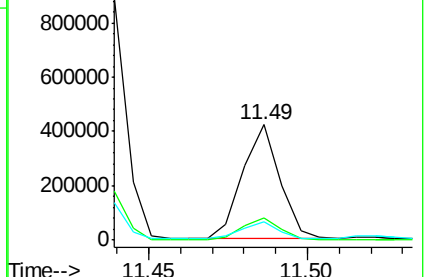
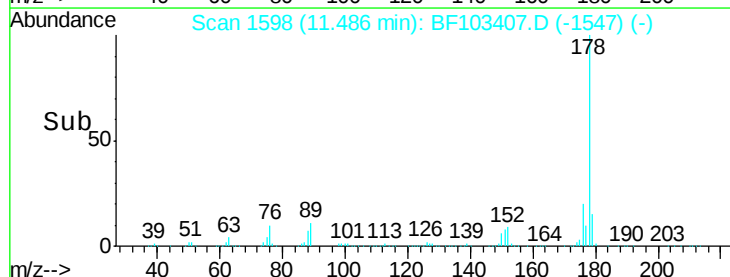
179 15.4 12.6 19.0

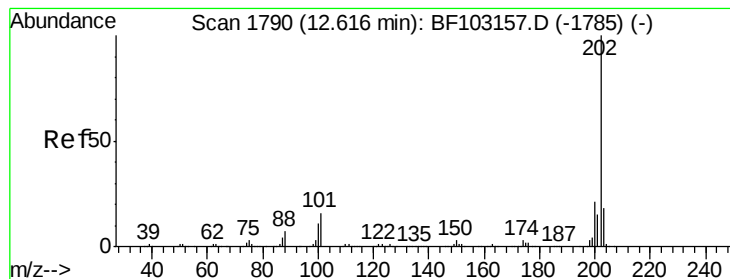


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 73.593 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

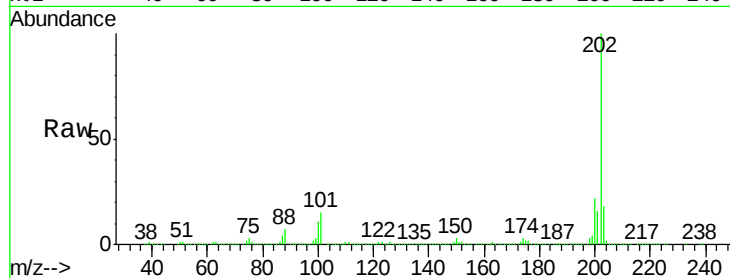
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:202 Resp: 1489562

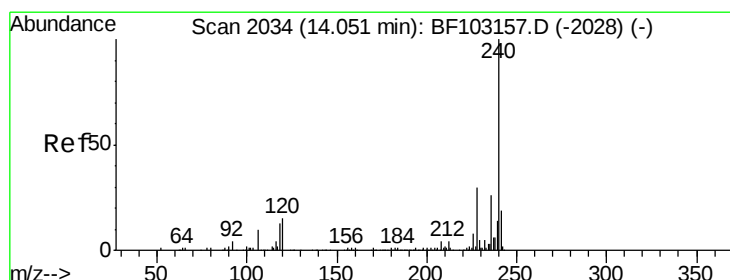
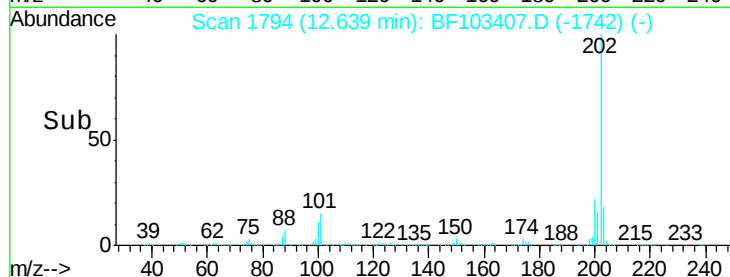
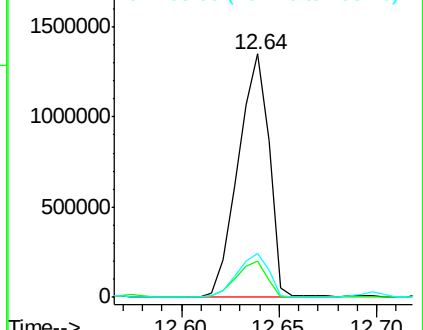
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 15.1  | 0.0   | 34.1  |
| 203 | 17.9  | 0.0   | 38.1  |



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: 14.07 min Scan# 2038

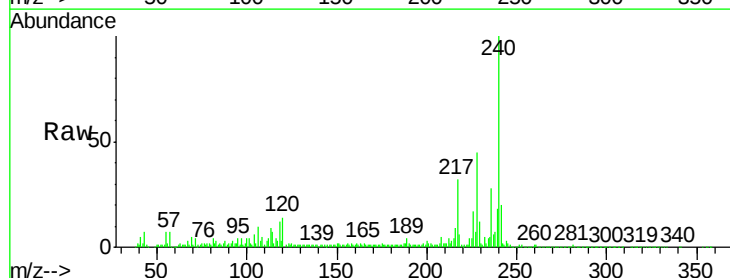
Delta R.T. 0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Tgt Ion:240 Resp: 228833

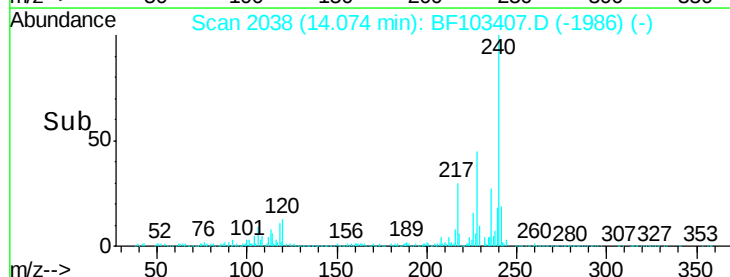
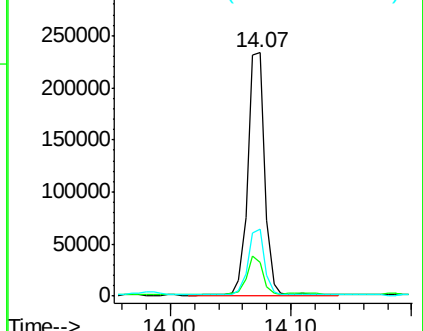
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 13.7  | 9.5   | 14.3  |
| 236 | 27.7  | 20.7  | 31.1  |

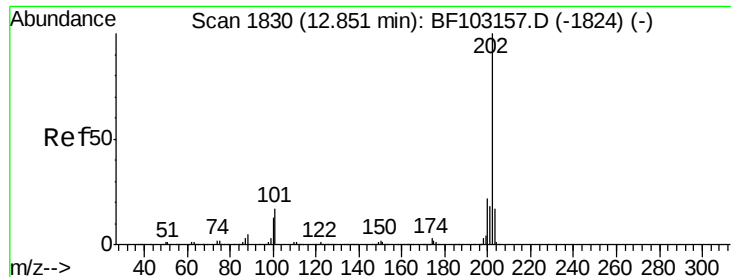


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 76.871 ng

RT: 12.87 min Scan# 1833

Delta R.T. 0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampleId :

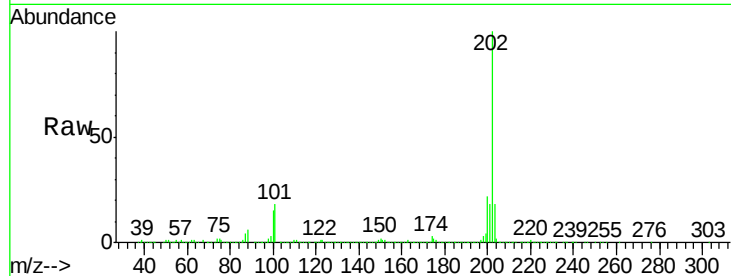
Tot Ion:202 Resp: 1371474

Ion Ratio Lower Upper

202 100

200 22.3 17.4 26.2

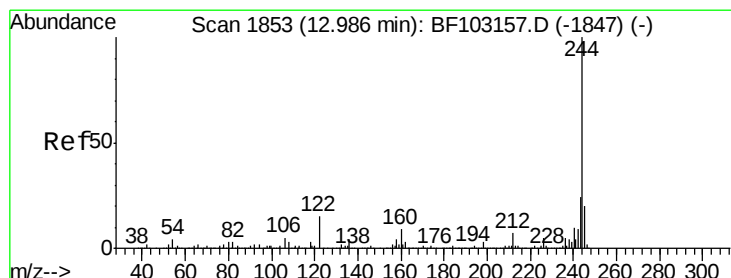
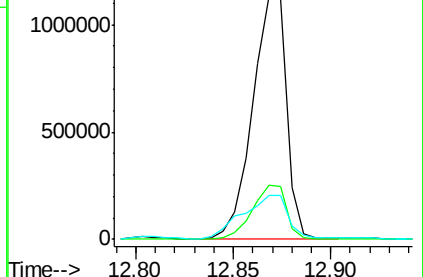
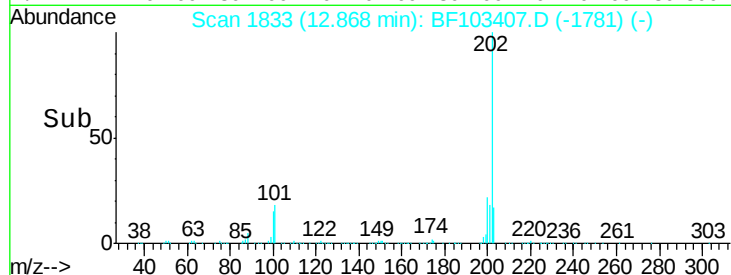
203 18.2 14.3 21.5



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: 37.741 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.00 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

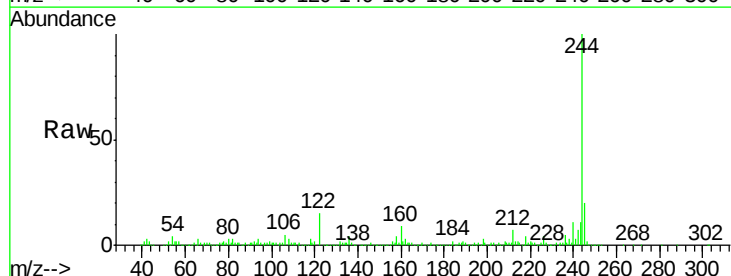
Tgt Ion:244 Resp: 359275

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

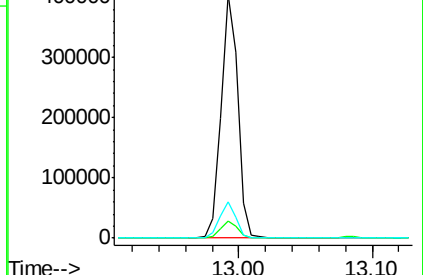
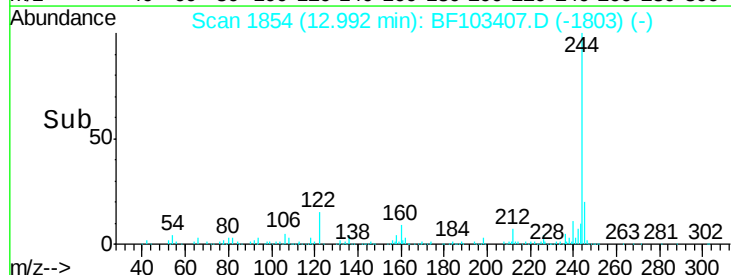
122 15.1 11.0 16.4

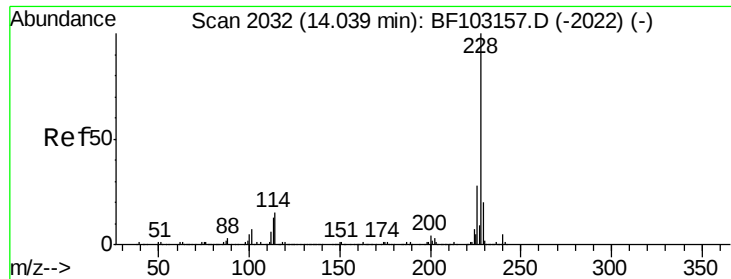


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

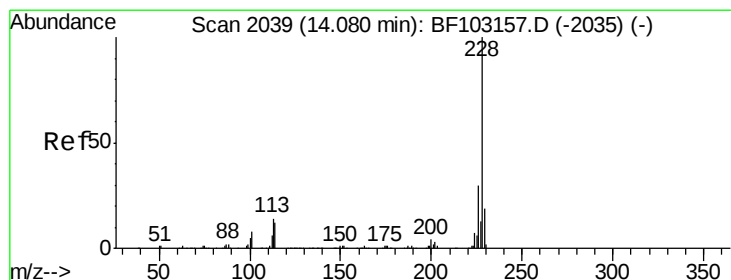
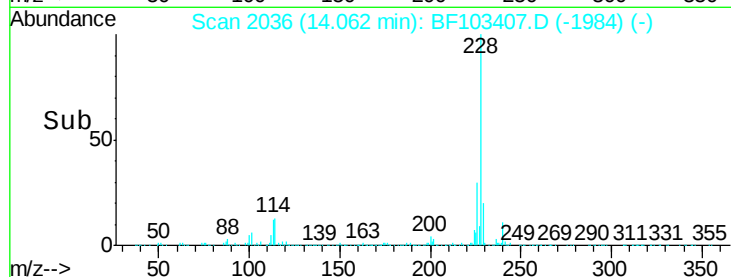
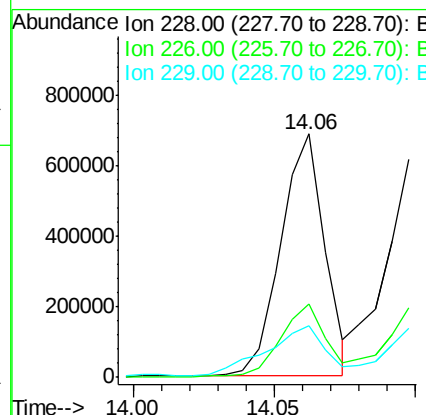
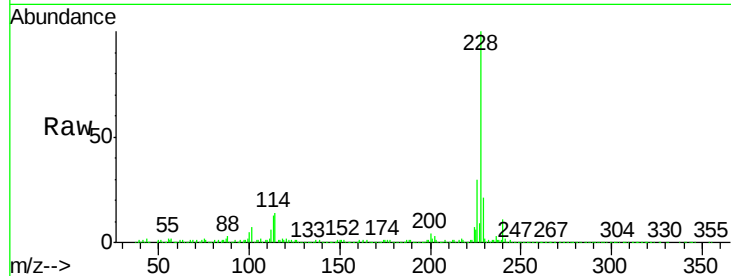




#80  
Benzo(a)anthracene  
Concen: 50.104 ng  
RT: 14.06 min Scan# 2036  
Delta R.T. 0.01 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

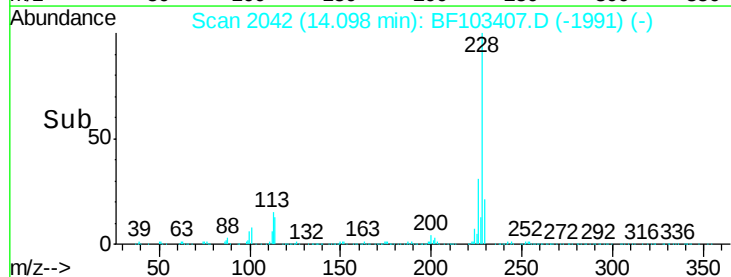
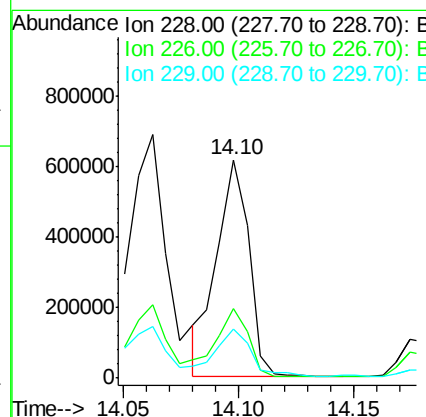
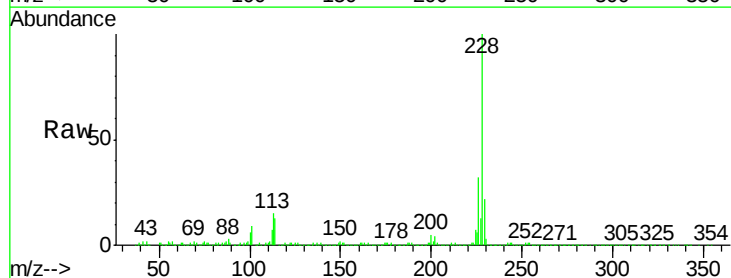
Instrument :  
BNA\_F  
ClientSampleId :

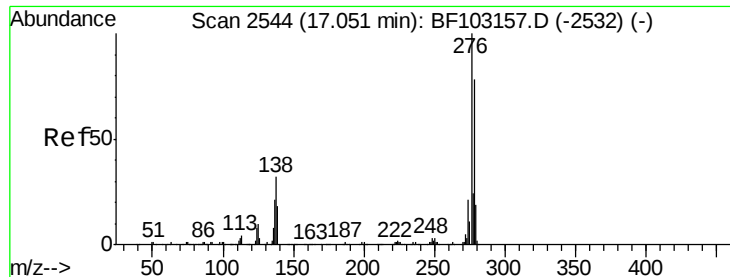
Tot Ion:228 Resp: 743925  
Ion Ratio Lower Upper  
228 100  
226 29.9 22.6 33.8  
229 21.0 15.8 23.6



#82  
Chrysene  
Concen: 41.766 ng  
RT: 14.10 min Scan# 2042  
Delta R.T. -0.00 min  
Lab File: BF103407.D  
Acq: 5 Mar 2018 14:10

Tgt Ion:228 Resp: 602128  
Ion Ratio Lower Upper  
228 100  
226 31.5 25.0 37.6  
229 22.5 16.2 24.4

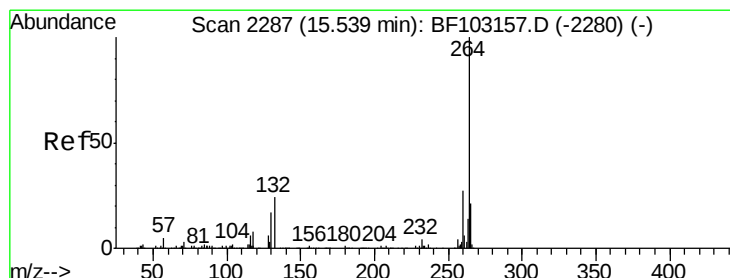
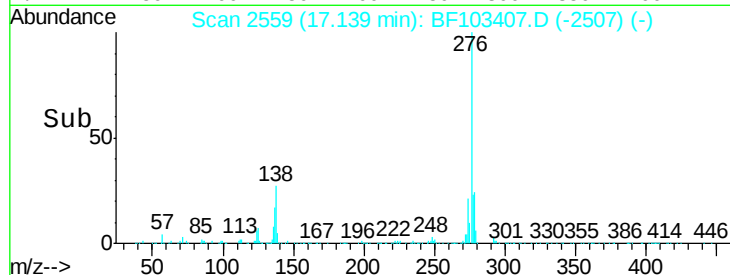
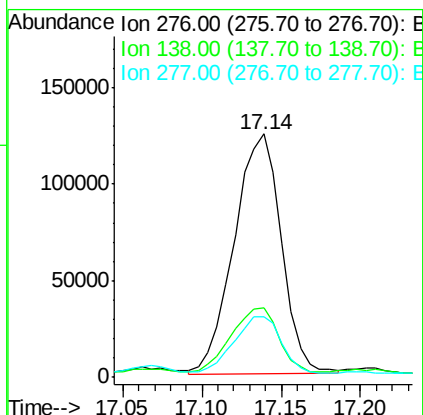
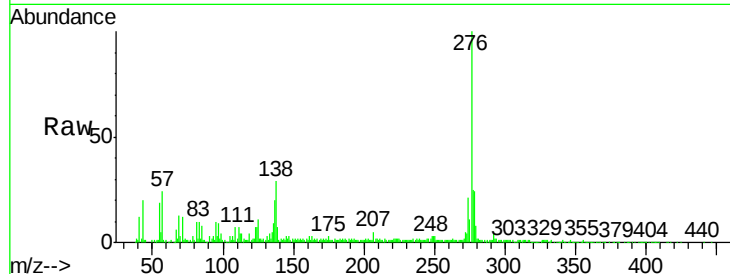




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 22.556 ng  
 RT: 17.14 min Scan# 2559  
 Delta R.T. 0.01 min  
 Lab File: BF103407.D  
 Acq: 5 Mar 2018 14:10

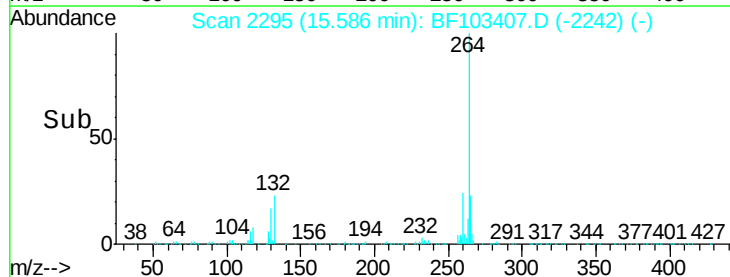
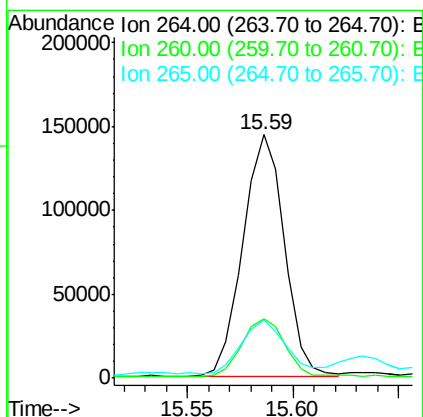
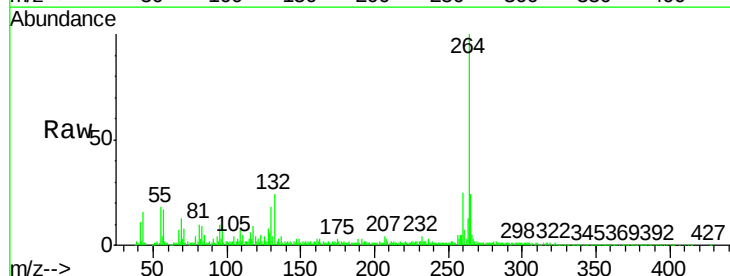
Instrument :  
 BNA\_F  
 ClientSampleId :

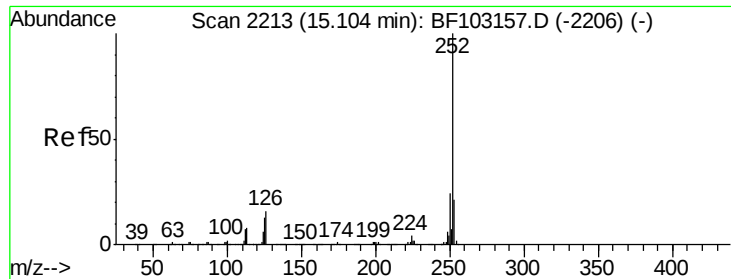
Tot Ion:276 Resp: 257442  
 Ion Ratio Lower Upper  
 276 100  
 138 27.6 25.0 37.6  
 277 24.1 20.1 30.1



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.59 min Scan# 2295  
 Delta R.T. 0.01 min  
 Lab File: BF103407.D  
 Acq: 5 Mar 2018 14:10

Tgt Ion:264 Resp: 196131  
 Ion Ratio Lower Upper  
 264 100  
 260 24.6 19.2 28.8  
 265 23.6 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 78.161 ng

RT: 15.14 min Scan# 2220

Delta R.T. 0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampleId :

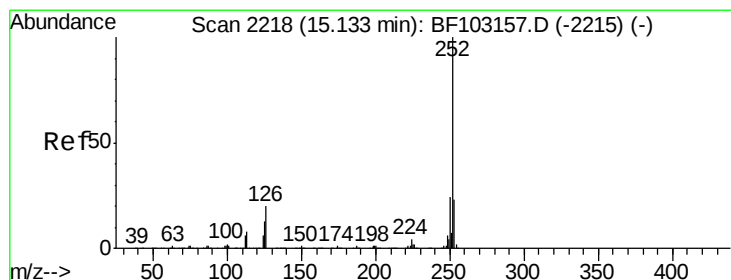
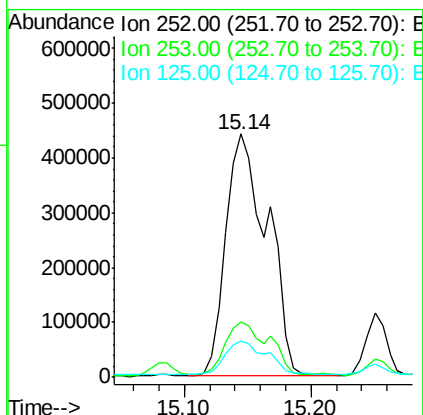
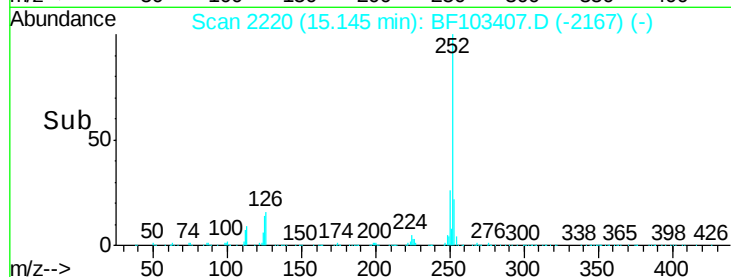
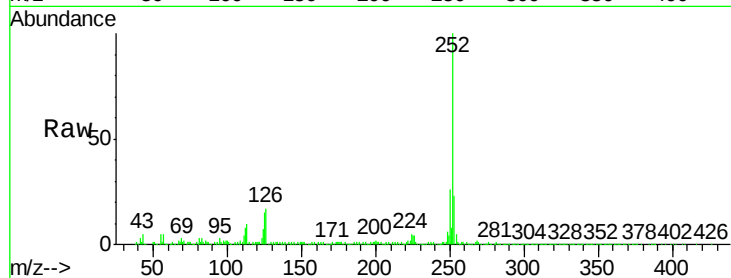
Tot Ion:252 Resp: 1007915

Ion Ratio Lower Upper

252 100

253 22.9 17.0 25.6

125 14.9 9.0 13.6#



#88

Benzo(k)fluoranthene

Concen: 83.003 ng

RT: 15.14 min Scan# 2220

Delta R.T. -0.02 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

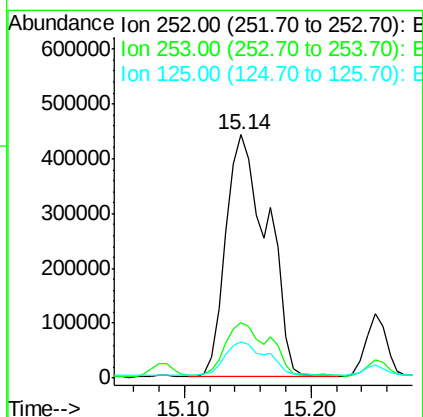
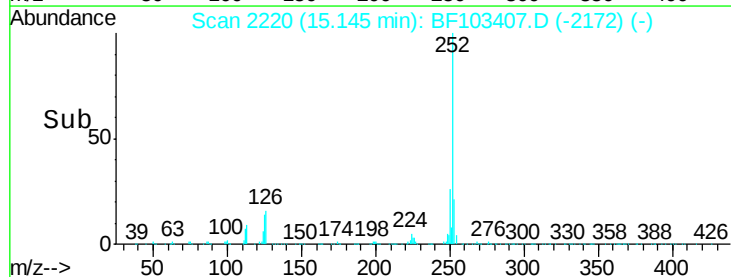
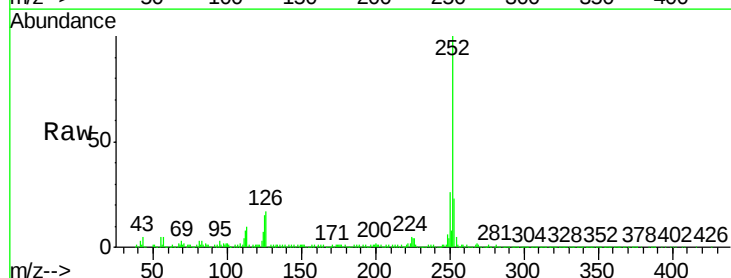
Tgt Ion:252 Resp: 1007915

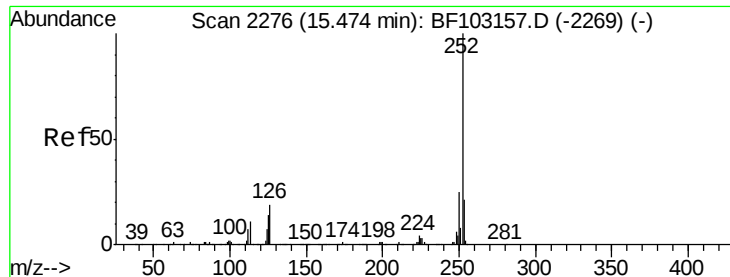
Ion Ratio Lower Upper

252 100

253 22.9 17.9 26.9

125 14.9 10.2 15.2





#89

Benzo(a)pyrene

Concen: 45.380 ng

RT: 15.53 min Scan# 2285

Delta R.T. 0.01 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

Instrument :

BNA\_F

ClientSampled :

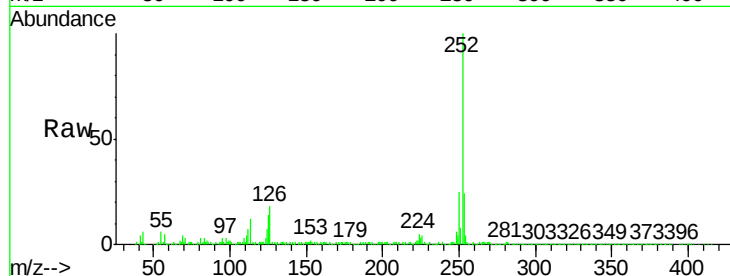
Tot Ion:252 Resp: 522581

Ion Ratio Lower Upper

252 100

253 23.8 17.1 25.7

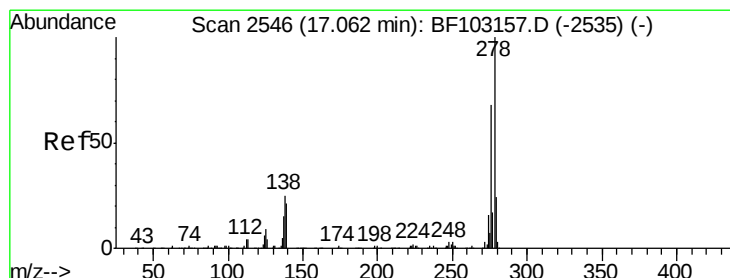
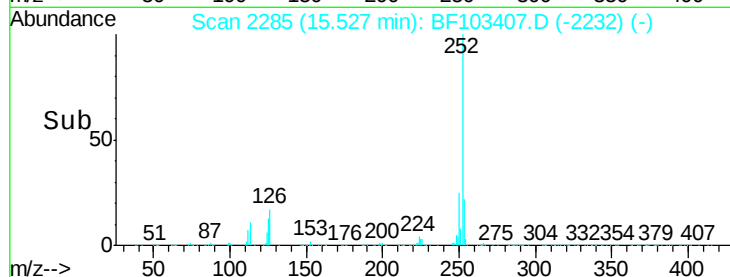
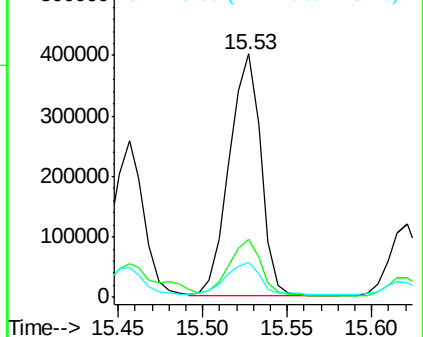
125 14.2 9.8 14.6



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: 7.988 ng

RT: 17.13 min Scan# 2558

Delta R.T. -0.00 min

Lab File: BF103407.D

Acq: 5 Mar 2018 14:10

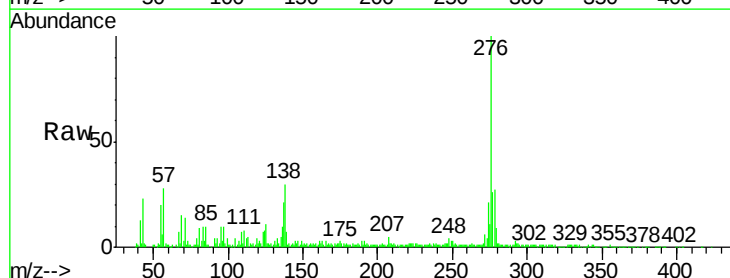
Tgt Ion:278 Resp: 71079

Ion Ratio Lower Upper

278 100

139 27.9 15.9 23.9#

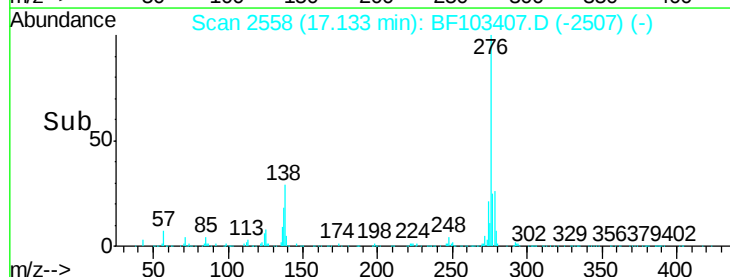
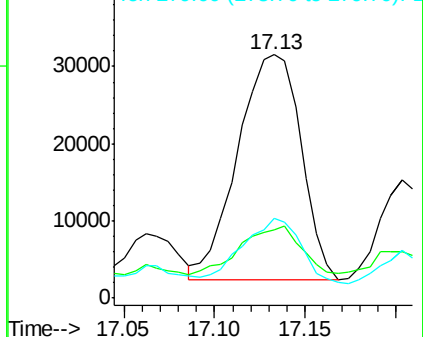
279 32.9 19.0 28.4#

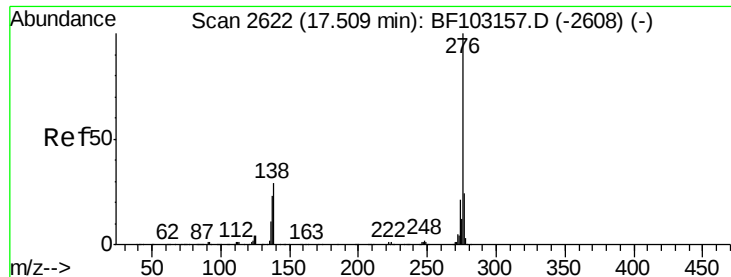


Abundance Ion 278.00 (277.70 to 278.70): E

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: 26.280 ng  
 RT: 17.61 min Scan# 2639  
 Delta R.T. 0.02 min  
 Lab File: BF103407.D  
 Acq: 5 Mar 2018 14:10

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.6  | 17.9  | 26.9  |
| 138     | 30.7  | 21.8  | 32.8  |

