

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120115\  
 Data File : BF083384.D  
 Acq On : 1 Dec 2015 20:57  
 Operator : UM/IZ  
 Sample : G4593-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S2-14.5

Quant Time: Dec 02 03:15:59 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 01 01:17:16 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.54  | 152  | 150935   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.84  | 136  | 610173   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.58  | 164  | 304123   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.13 | 188  | 553738   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.75 | 240  | 417773   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 16.82 | 264  | 336260   | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |       |
|-----------------------------|-------|-----|---------|-------|----|-------|
| System Monitoring Compounds |       |     |         |       |    |       |
| 5) 2-Fluorophenol           | 5.14  | 112 | 944035  | 93.85 | ng | 0.01  |
| 7) Phenol-d6                | 6.21  | 99  | 1253870 | 91.07 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.12  | 82  | 816873  | 58.85 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 10.37 | 330 | 267484  | 87.62 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 8.92  | 172 | 1313309 | 61.54 | ng | 0.00  |
| 78) Terphenyl-d14           | 13.22 | 244 | 1179678 | 67.34 | ng | 0.00  |

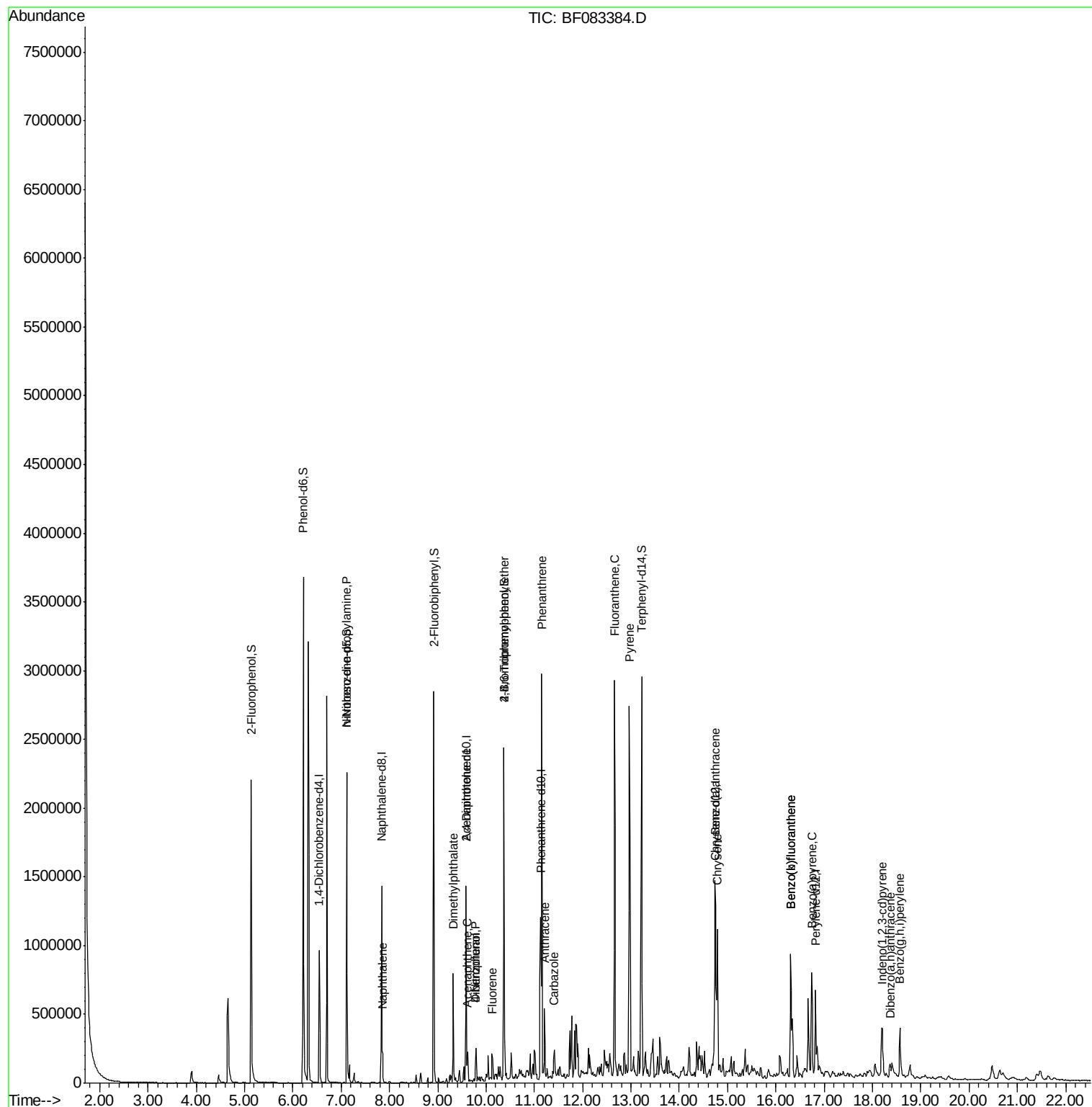
|                                |       |     |         |           |    |      |
|--------------------------------|-------|-----|---------|-----------|----|------|
| Target Compounds               |       |     |         | Qvalue    |    |      |
| 9) Benzaldehyde                | 6.21  | 77  | 1721    | Below Cal | #  | 6    |
| 19) n-Nitroso-di-n-propylamine | 7.12  | 70  | 105844  | 10.76     | ng | 84   |
| 31) Naphthalene                | 7.86  | 128 | 95754   | 2.89      | ng | 97   |
| 49) Dimethylphthalate          | 9.32  | 163 | 317377  | 12.84     | ng | 98   |
| 51) Acenaphthene               | 9.62  | 154 | 68304   | 3.58      | ng | 97   |
| 54) Dibenzofuran               | 9.79  | 168 | 91552   | 3.28      | ng | 93   |
| 55) 4-Nitrophenol              | 9.79  | 139 | 32600   | 8.42      | ng | # 1  |
| 56) 2,4-Dinitrotoluene         | 9.58  | 165 | 38587   | 5.76      | ng | # 6  |
| 57) Fluorene                   | 10.13 | 166 | 70680   | 3.20      | ng | 98   |
| 66) 4-Bromophenyl-phenylether  | 10.37 | 248 | 16168   | 2.67      | ng | # 1  |
| 70) Phenanthrene               | 11.15 | 178 | 1271317 | 38.80     | ng | 98   |
| 71) Anthracene                 | 11.21 | 178 | 248755  | 7.54      | ng | 97   |
| 72) Carbazole                  | 11.41 | 167 | 112103  | 3.78      | ng | 97   |
| 74) Fluoranthene               | 12.66 | 202 | 1697325 | 49.97     | ng | 99   |
| 77) Pyrene                     | 12.97 | 202 | 1502730 | 51.51     | ng | # 95 |
| 80) Benzo(a)anthracene         | 14.74 | 228 | 698188  | 27.28     | ng | 100  |
| 82) Chrysene                   | 14.79 | 228 | 597496  | 24.16     | ng | 98   |
| 85) Indeno(1,2,3-cd)pyrene     | 18.20 | 276 | 275417  | 15.29     | ng | 95   |
| 87) Benzo(b)fluoranthene       | 16.31 | 252 | 794501  | 36.82     | ng | 99   |
| 88) Benzo(k)fluoranthene       | 16.31 | 252 | 794501  | 39.00     | ng | # 97 |
| 89) Benzo(a)pyrene             | 16.74 | 252 | 428344  | 23.11     | ng | # 96 |
| 90) Dibenz(a,h)anthracene      | 18.36 | 278 | 53000   | 3.28      | ng | 97   |
| 91) Benzo(g,h,i)perylene       | 18.57 | 276 | 267787  | 16.90     | ng | 99   |

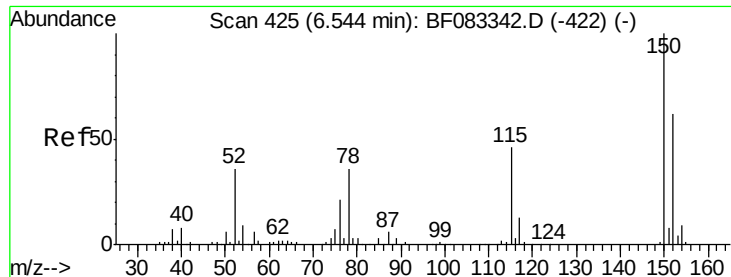
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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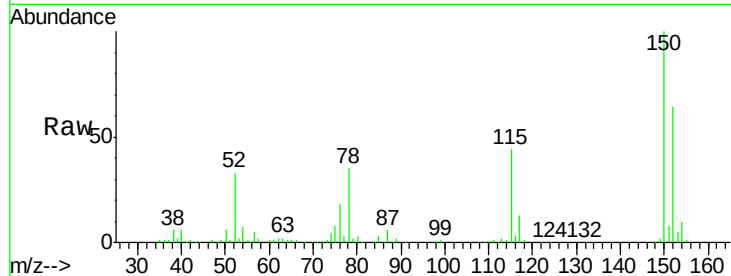


#1

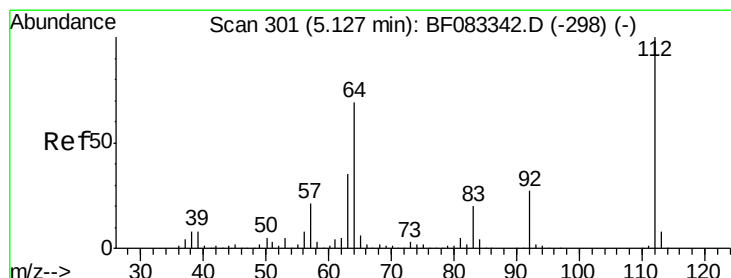
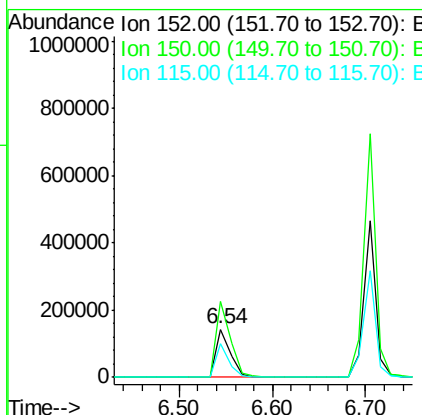
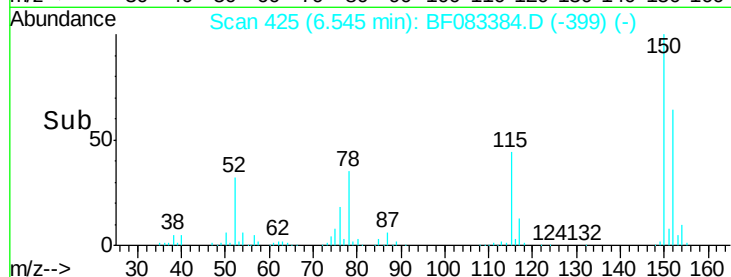
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.54 min Scan# 425  
Delta R.T. 0.00 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
S2-14.5

Tgt Ion:152 Resp: 150935  
Ion Ratio Lower Upper  
152 100  
150 157.2 129.8 194.8  
115 69.4 59.2 88.8



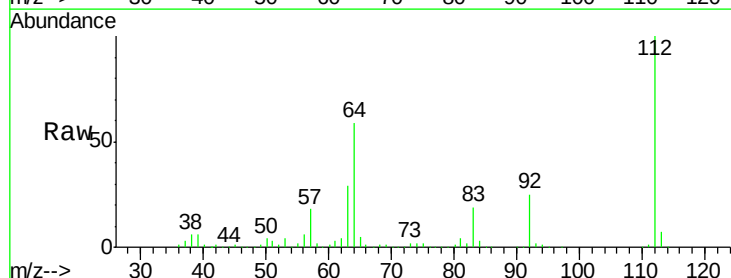
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



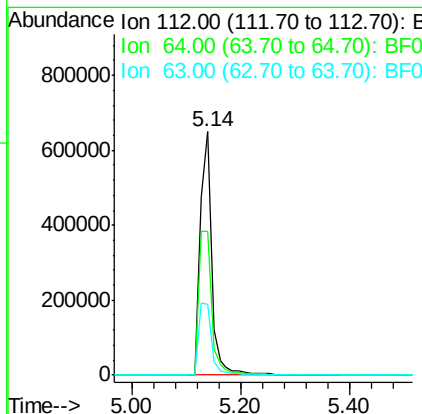
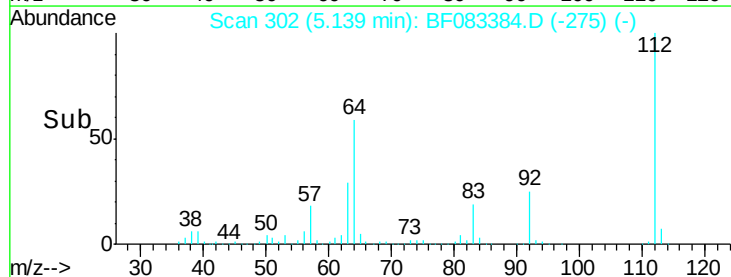
#5

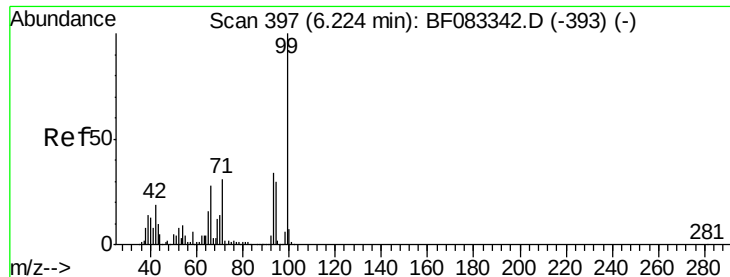
2-Fluorophenol  
Concen: 93.85 ng  
RT: 5.14 min Scan# 302  
Delta R.T. 0.01 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

Tgt Ion:112 Resp: 944035  
Ion Ratio Lower Upper  
112 100  
64 59.1 55.6 83.4  
63 29.2 28.2 42.2



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 91.07 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Instrument :

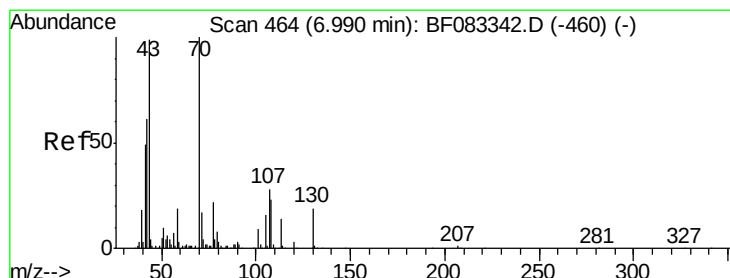
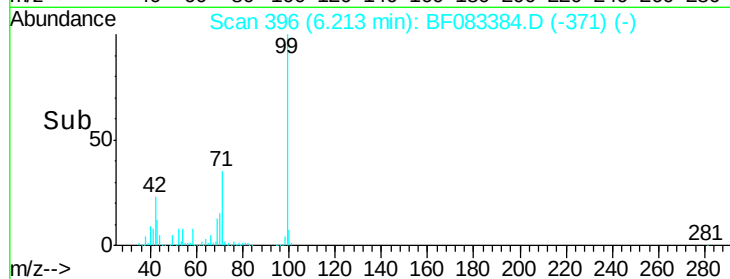
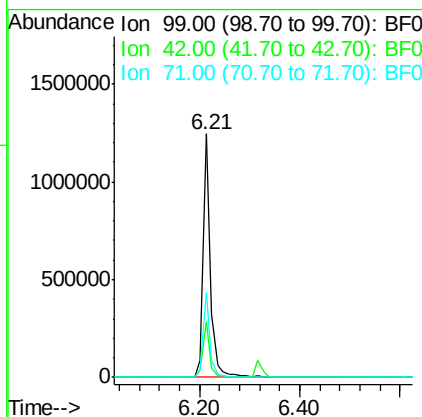
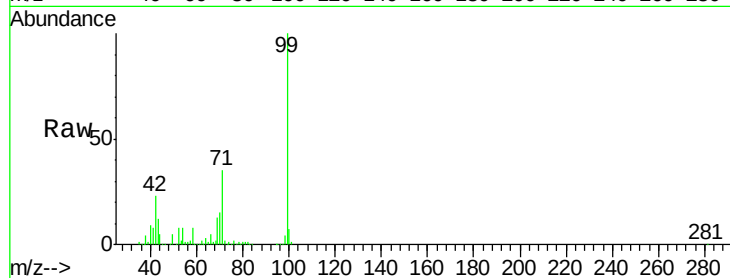
BNA\_F

ClientSampleId :

S2-14.5

Tgt Ion: 99 Resp: 1253870

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.6  | 14.9  | 22.3# |
| 71  | 34.6  | 24.7  | 37.1  |



#19

n-Nitroso-di-n-propylamine

Concen: 10.76 ng

RT: 7.12 min Scan# 475

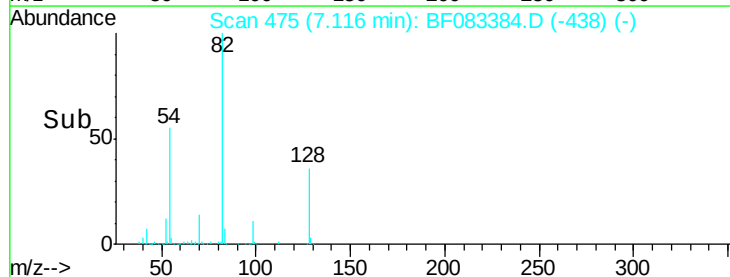
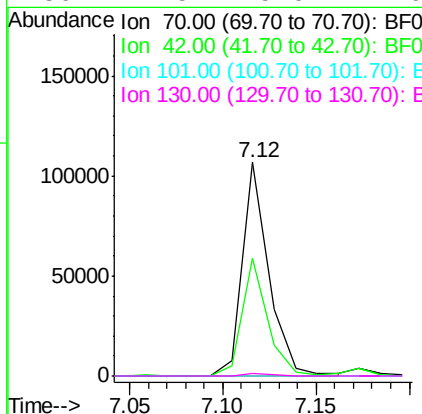
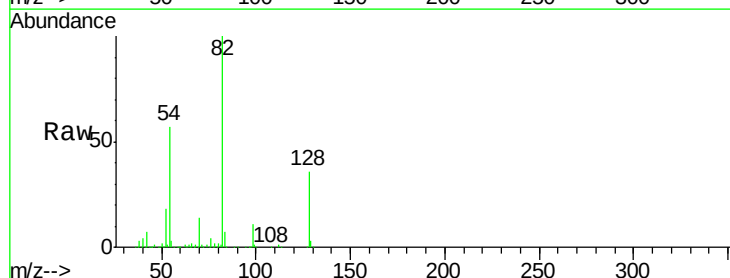
Delta R.T. 0.13 min

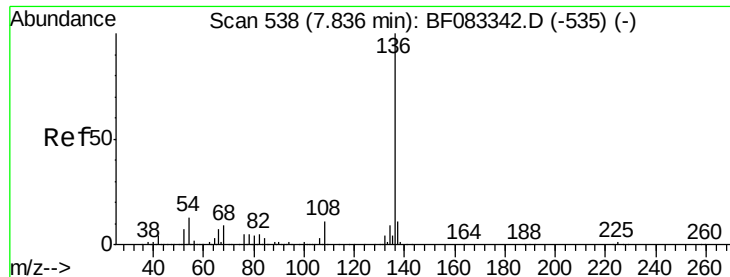
Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Tgt Ion: 70 Resp: 105844

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 55.1  | 48.8  | 73.2  |
| 101 | 0.0   | 7.1   | 10.7# |
| 130 | 1.5   | 15.0  | 22.6# |

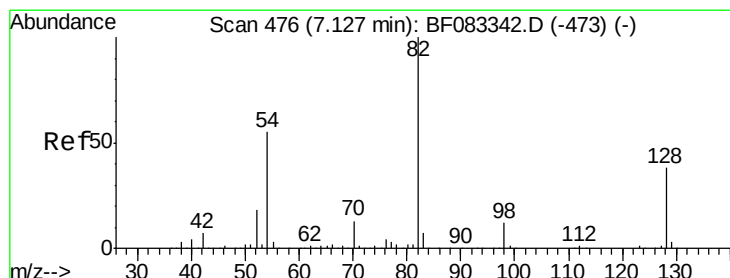
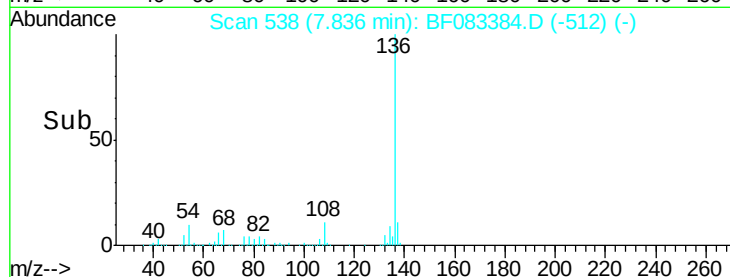
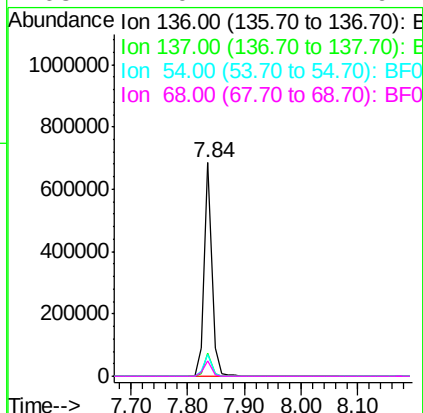
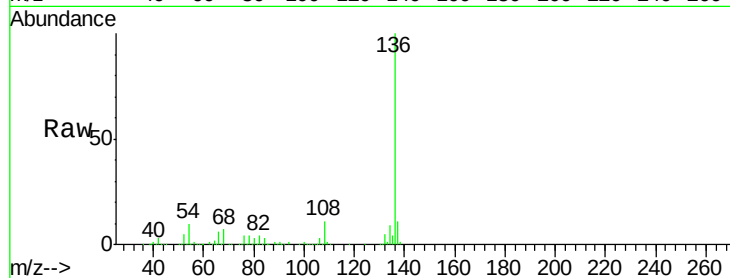




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.84 min Scan# 538  
Delta R.T. 0.00 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

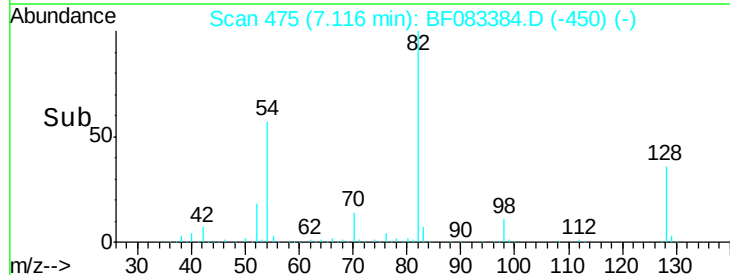
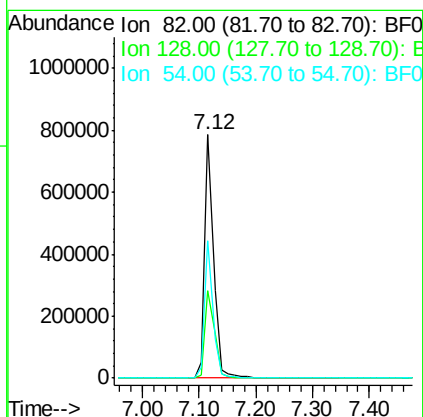
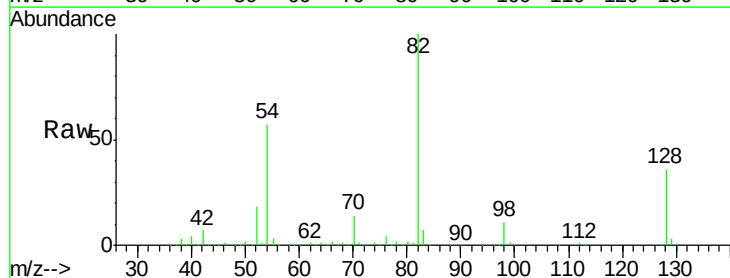
Instrument :  
BNA\_F  
ClientSampleId :  
S2-14.5

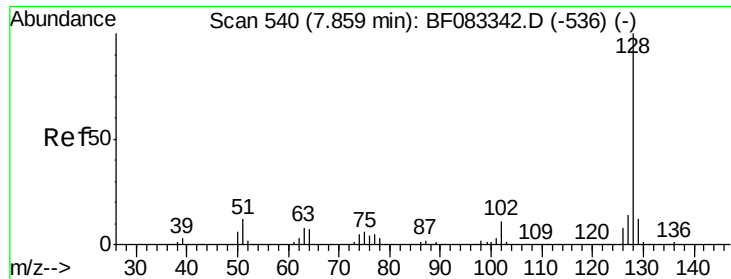
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 610173 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.0   | 13.4   |
| 54       | 9.9   | 10.1  | 15.1#  |
| 68       | 7.0   | 7.1   | 10.7#  |



#23  
Nitrobenzene-d5  
Concen: 58.85 ng  
RT: 7.12 min Scan# 475  
Delta R.T. -0.01 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 816873 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 35.7  | 30.6  | 46.0   |
| 54       | 56.5  | 43.8  | 65.6   |

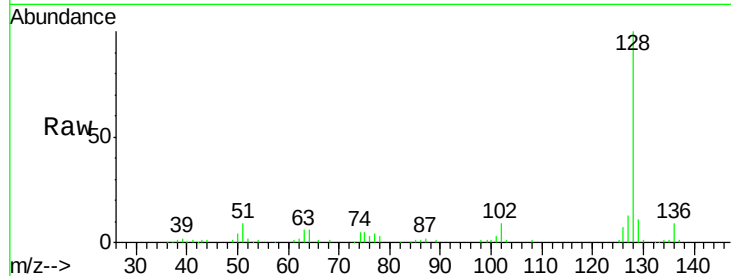




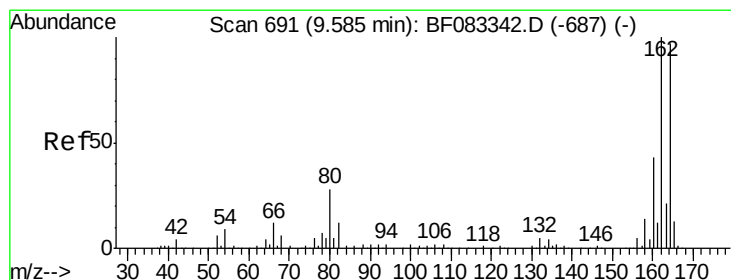
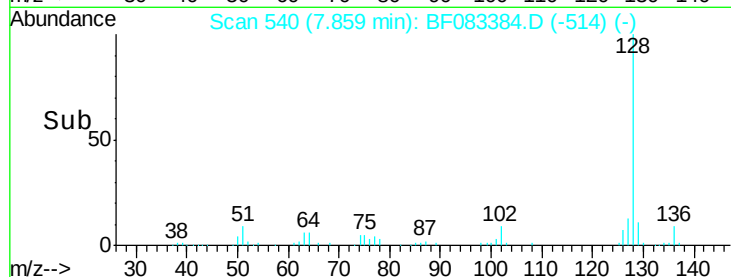
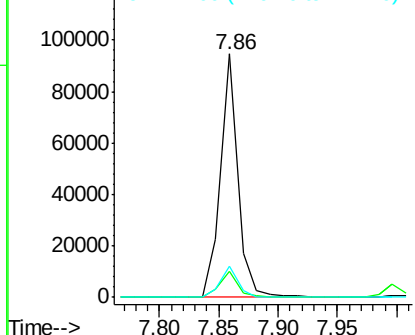
#31  
Naphthalene  
Concen: 2.89 ng  
RT: 7.86 min Scan# 540  
Delta R.T. 0.00 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
S2-14.5

Tgt Ion:128 Resp: 95754  
Ion Ratio Lower Upper  
128 100  
129 10.8 9.7 14.5  
127 12.5 11.0 16.4

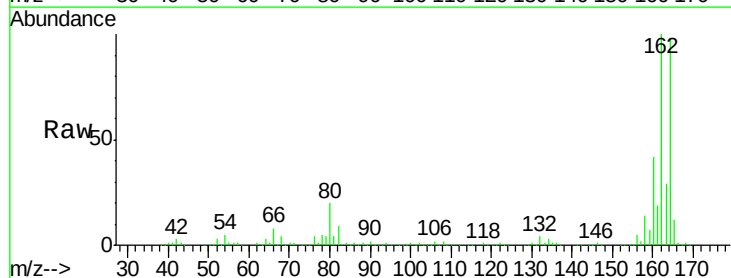


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

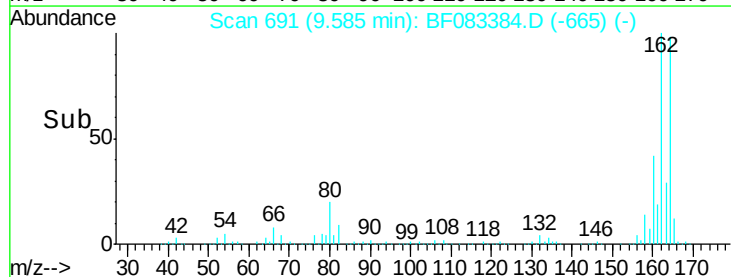
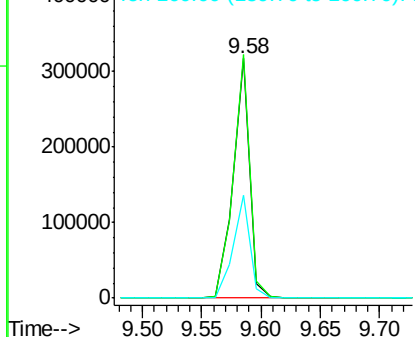


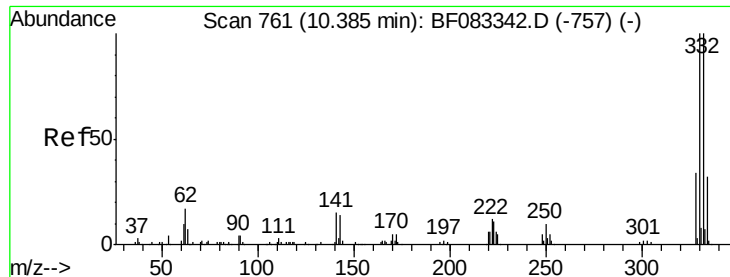
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.58 min Scan# 691  
Delta R.T. 0.00 min  
Lab File: BF083384.D  
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Tgt Ion:164 Resp: 304123  
Ion Ratio Lower Upper  
164 100  
162 101.7 82.6 123.8  
160 42.9 35.3 52.9



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

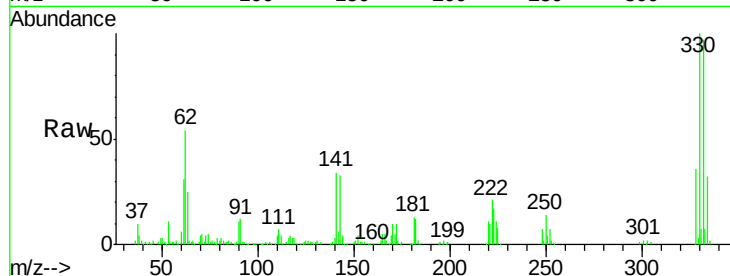




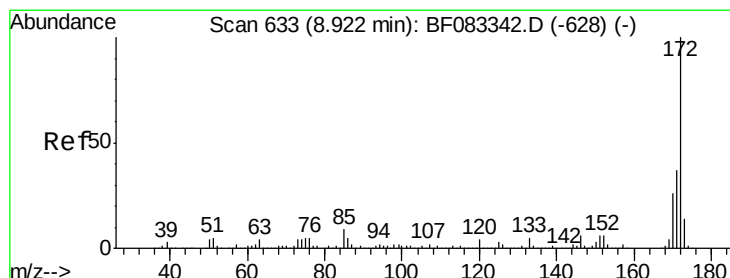
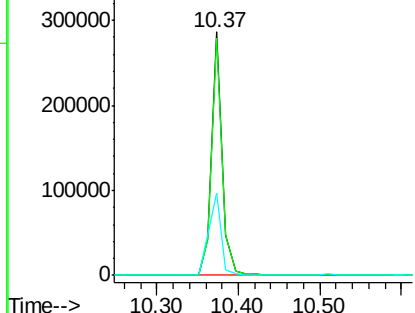
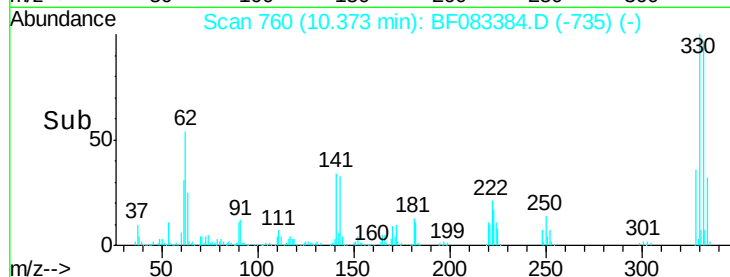
#41  
 2,4,6-Tribromophenol  
 Concen: 87.62 ng  
 RT: 10.37 min Scan# 760  
 Delta R.T. -0.01 min  
 Lab File: BF083384.D  
 Acq: 1 Dec 2015 20:57

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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 77.8  | 116.6 |
| 141     | 39.4  | 29.4  | 44.0  |

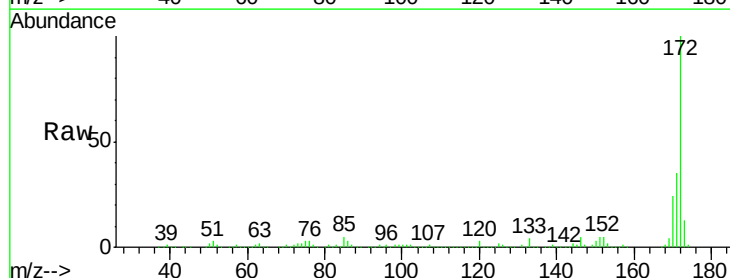


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

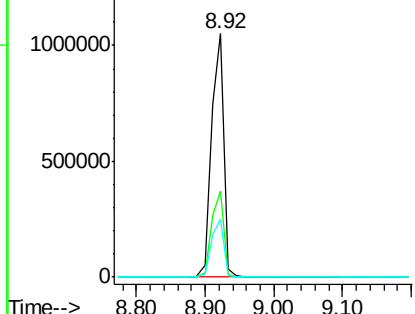
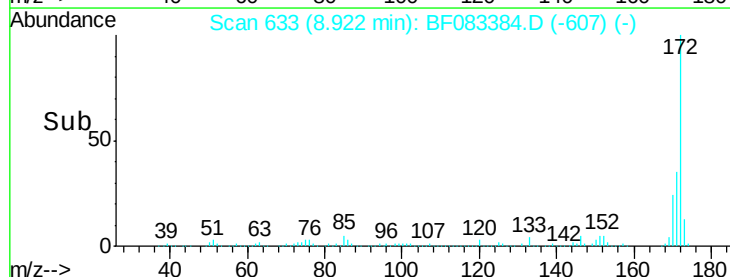


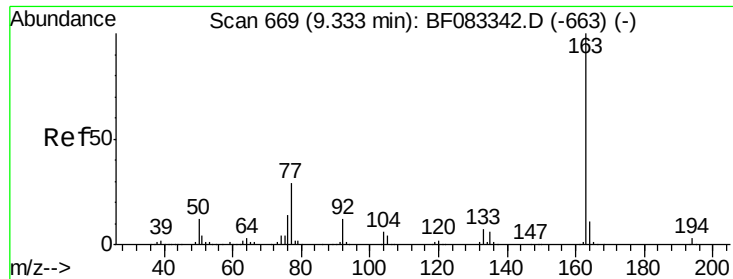
#44  
 2-Fluorobiphenyl  
 Concen: 61.54 ng  
 RT: 8.92 min Scan# 633  
 Delta R.T. 0.00 min  
 Lab File: BF083384.D  
 Acq: 1 Dec 2015 20:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 29.4  | 44.0  |
| 170     | 24.0  | 20.4  | 30.6  |



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





#49

Dimethylphthalate

Concen: 12.84 ng

RT: 9.32 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Instrument :

BNA\_F

ClientSampleId :

S2-14.5

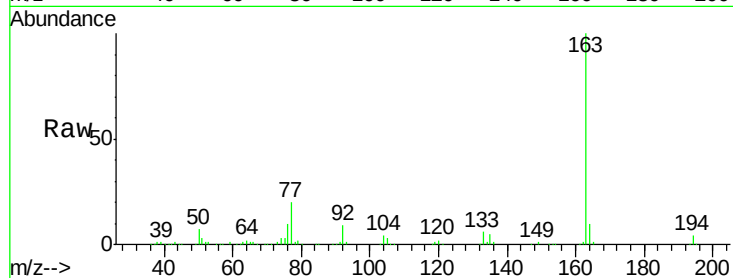
Tgt Ion:163 Resp: 317377

Ion Ratio Lower Upper

163 100

194 3.6 2.7 4.1

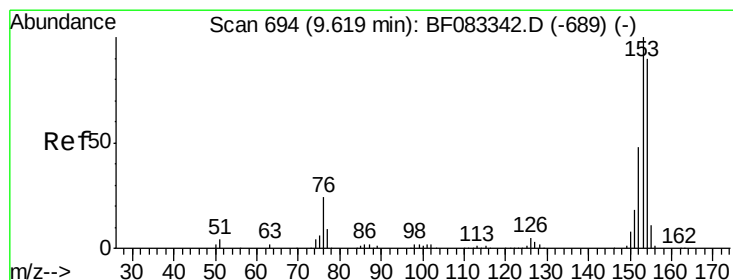
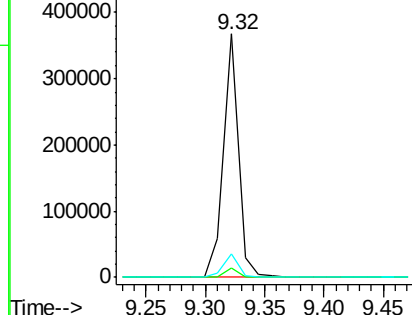
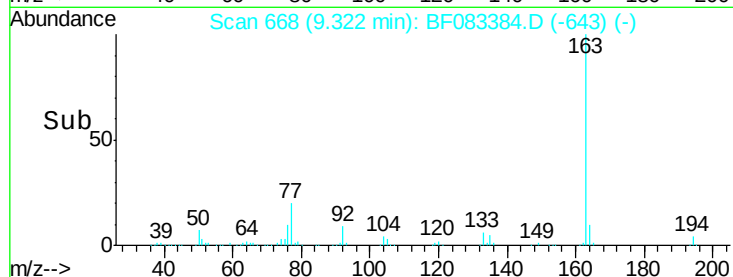
164 9.9 8.8 13.2



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: 3.58 ng

RT: 9.62 min Scan# 694

Delta R.T. 0.00 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

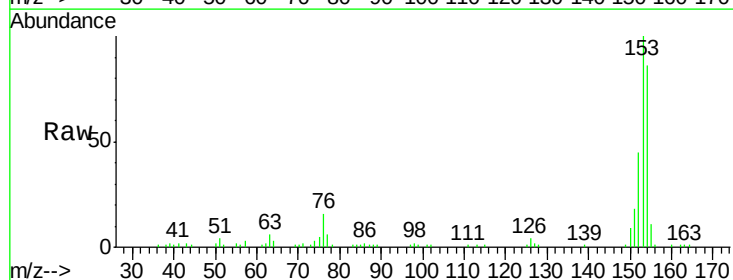
Tgt Ion:154 Resp: 68304

Ion Ratio Lower Upper

154 100

153 115.7 89.3 133.9

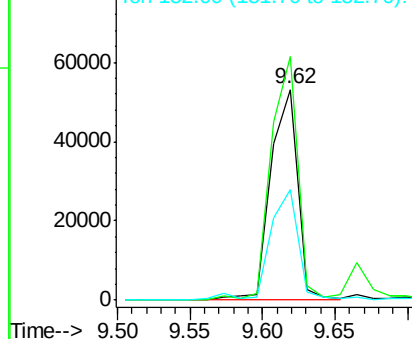
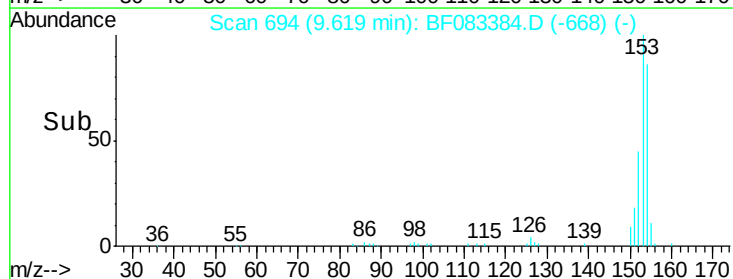
152 52.5 42.5 63.7



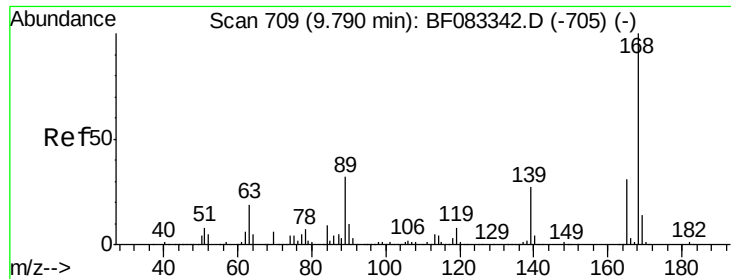
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



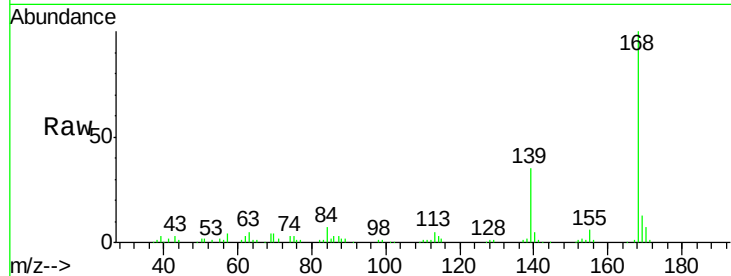




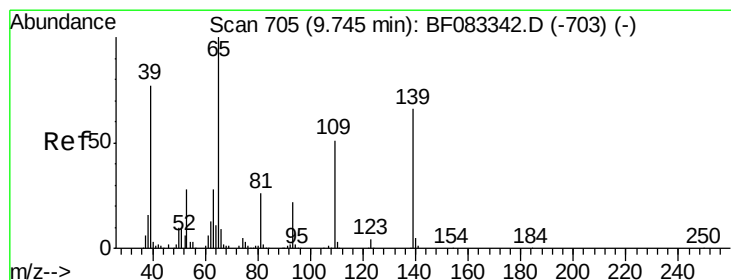
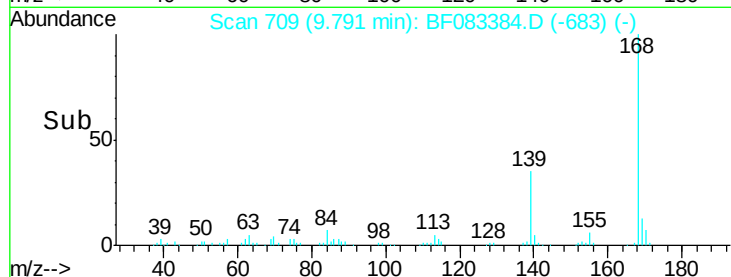
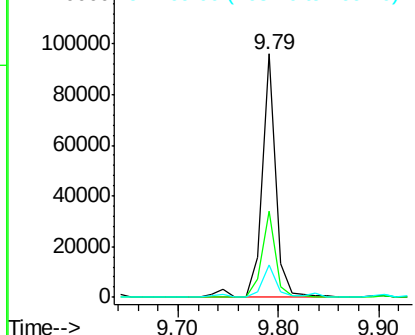
#54  
Dibenzofuran  
Concen: 3.28 ng  
RT: 9.79 min Scan# 709  
Delta R.T. 0.00 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
S2-14.5

Tgt Ion:168 Resp: 91552  
Ion Ratio Lower Upper  
168 100  
139 35.2 32.7 49.1  
169 13.4 11.1 16.7

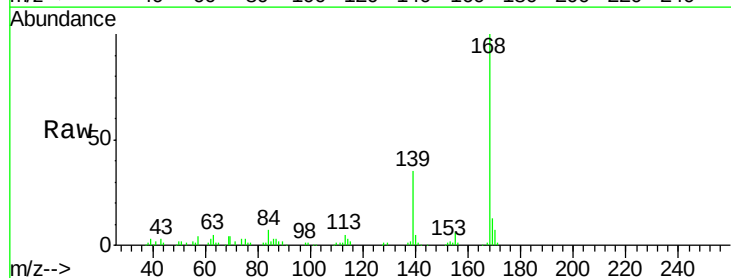


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

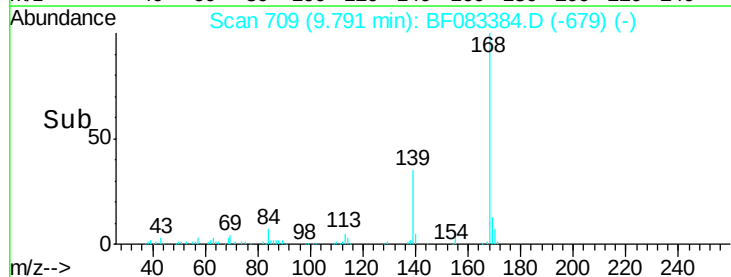
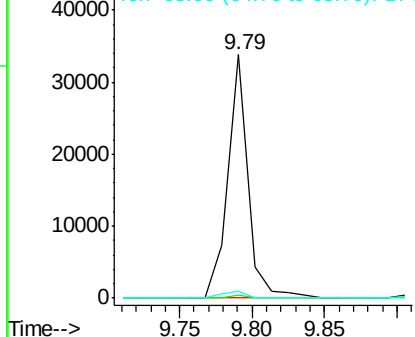


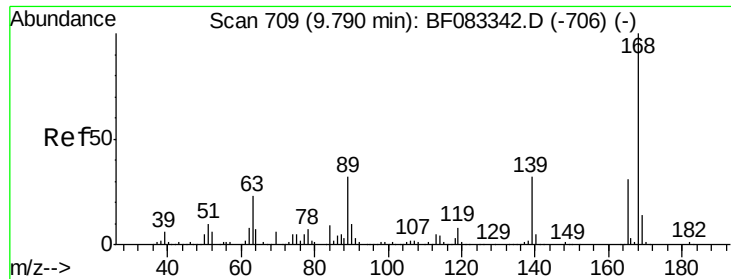
#55  
4-Nitrophenol  
Concen: 8.42 ng  
RT: 9.79 min Scan# 709  
Delta R.T. 0.05 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

Tgt Ion:139 Resp: 32600  
Ion Ratio Lower Upper  
139 100  
109 1.1 57.4 97.4#  
65 2.7 131.6 171.6#



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): BF0

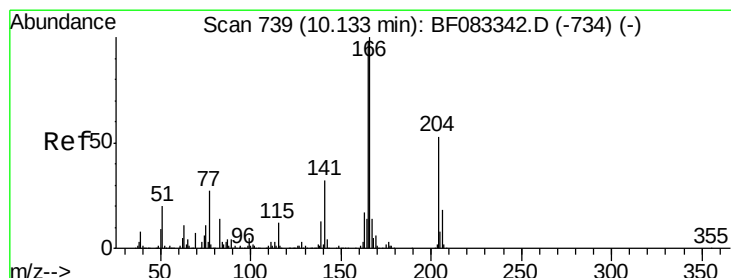
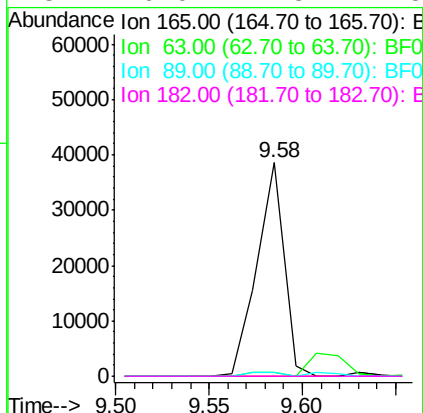
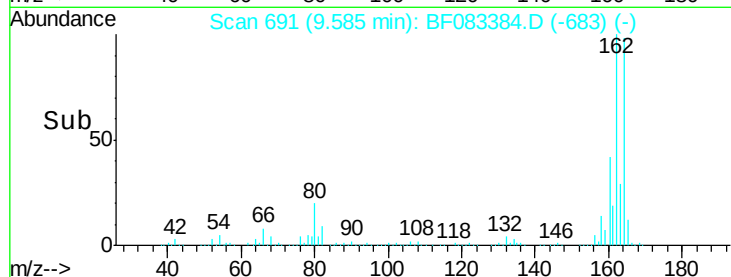
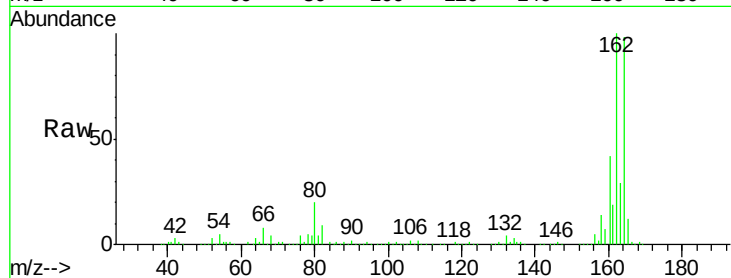




#56  
 2,4-Dinitrotoluene  
 Concen: 5.76 ng  
 RT: 9.58 min Scan# 691  
 Delta R.T. -0.21 min  
 Lab File: BF083384.D  
 Acq: 1 Dec 2015 20:57

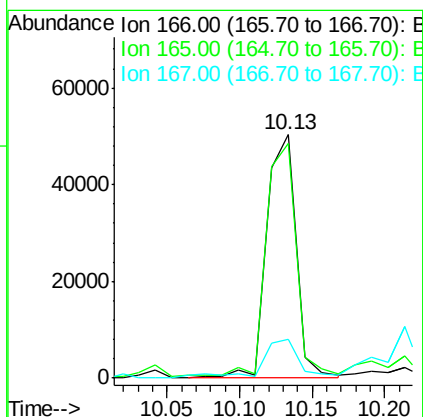
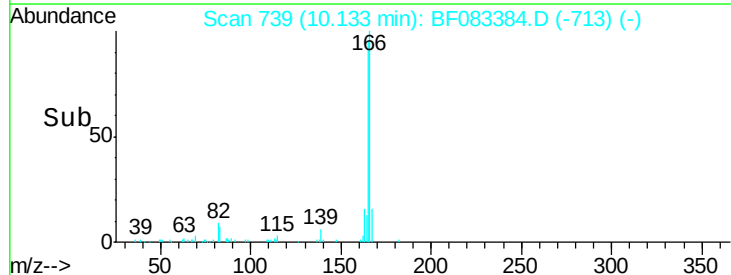
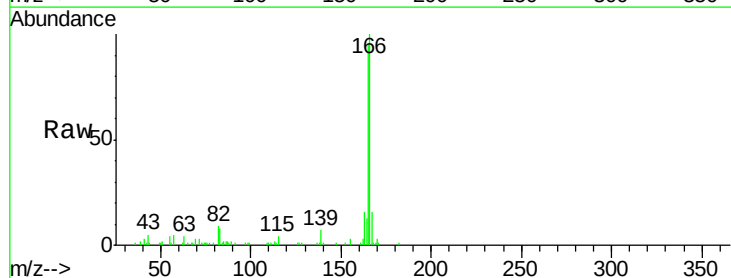
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S2-14.5

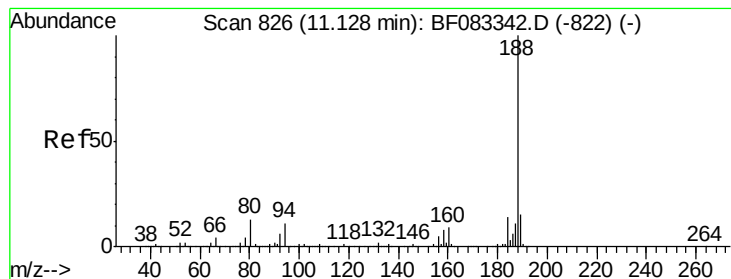
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 38587  |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 63        | 1.6   | 65.4  | 98.0#  |
| 89        | 2.1   | 81.2  | 121.8# |
| 182       | 0.0   | 1.8   | 2.8#   |



#57  
 Fluorene  
 Concen: 3.20 ng  
 RT: 10.13 min Scan# 739  
 Delta R.T. 0.00 min  
 Lab File: BF083384.D  
 Acq: 1 Dec 2015 20:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 70680 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 96.3  | 78.3  | 117.5 |
| 167       | 15.9  | 11.1  | 16.7  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.13 min Scan# 826

Delta R.T. 0.00 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Instrument :

BNA\_F

ClientSampleId :

S2-14.5

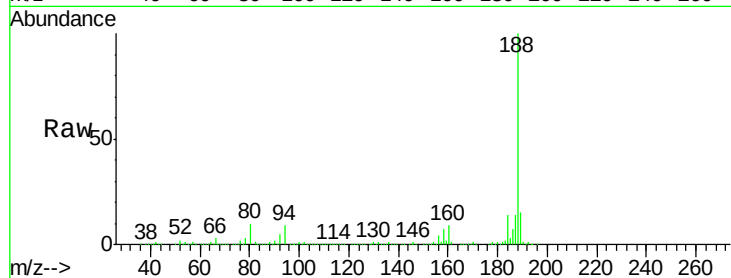
Tgt Ion:188 Resp: 553738

Ion Ratio Lower Upper

188 100

94 9.0 8.7 13.1

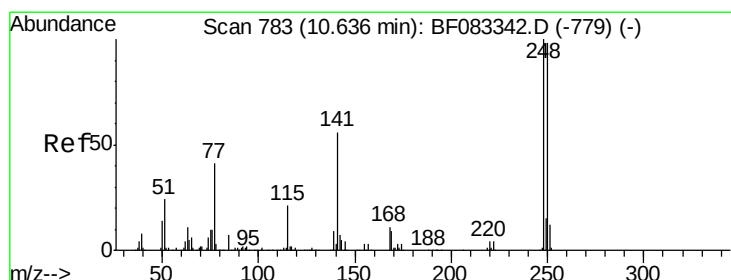
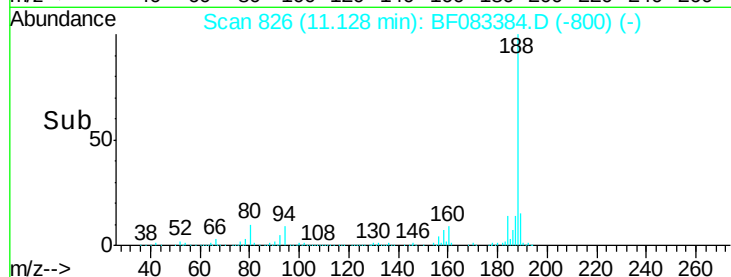
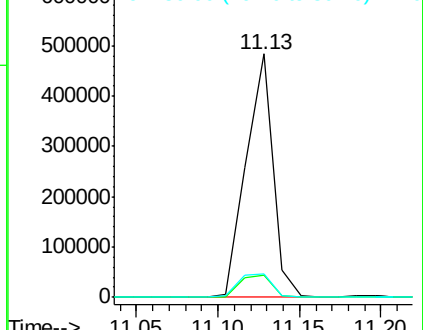
80 9.6 10.3 15.5#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#66

4-Bromophenyl-phenylether

Concen: 2.67 ng

RT: 10.37 min Scan# 760

Delta R.T. -0.26 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

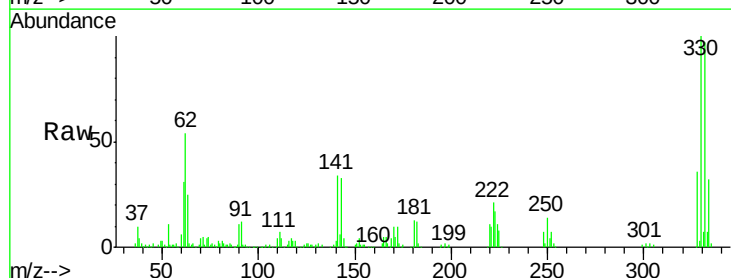
Tgt Ion:248 Resp: 16168

Ion Ratio Lower Upper

248 100

250 190.1 78.6 118.0#

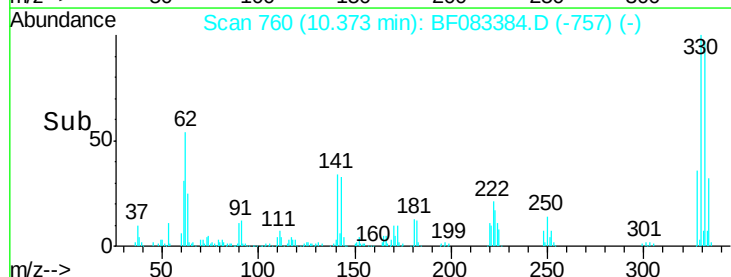
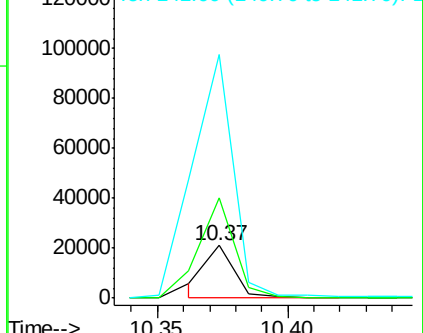
141 460.6 44.4 66.6#

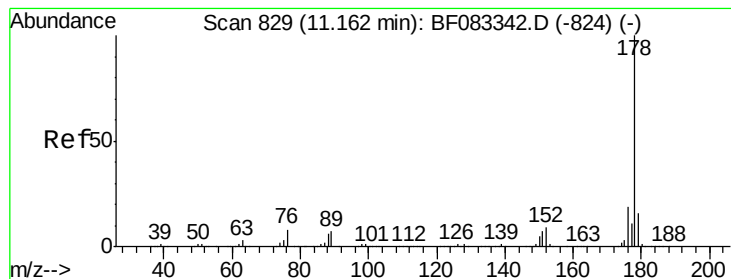


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 38.80 ng

RT: 11.15 min Scan# 828

Delta R.T. -0.01 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Instrument :

BNA\_F

ClientSampleId :

S2-14.5

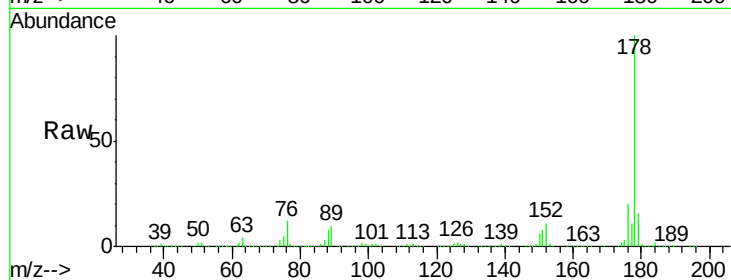
Tgt Ion:178 Resp: 1271317

Ion Ratio Lower Upper

178 100

176 20.1 15.3 22.9

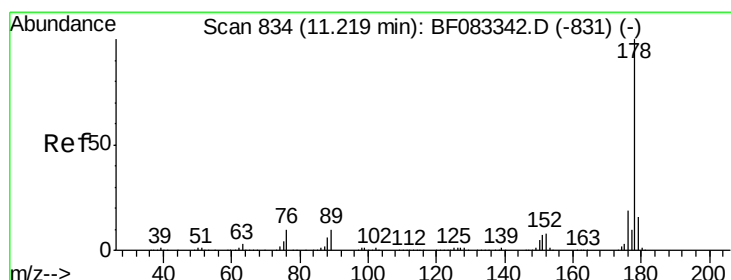
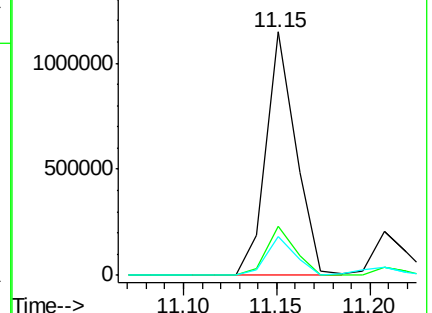
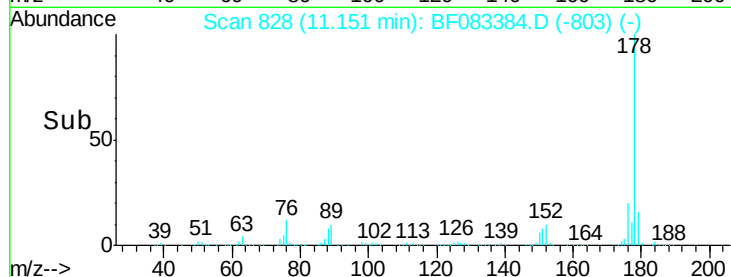
179 16.0 12.4 18.6



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: 7.54 ng

RT: 11.21 min Scan# 833

Delta R.T. -0.01 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

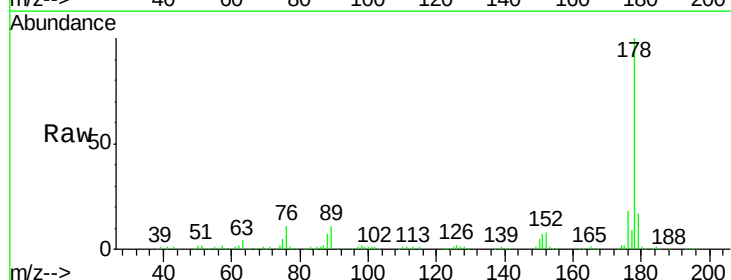
Tgt Ion:178 Resp: 248755

Ion Ratio Lower Upper

178 100

176 18.1 15.6 23.4

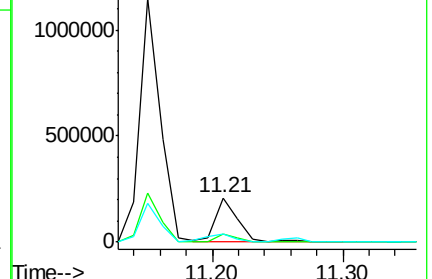
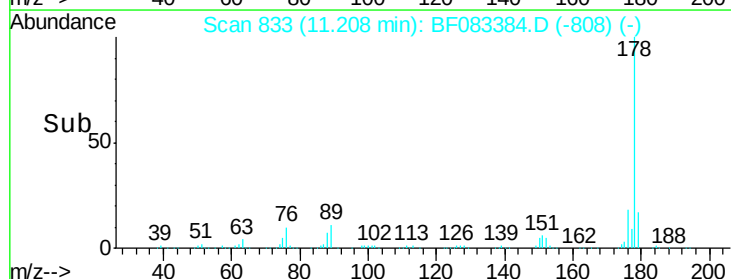
179 17.0 12.8 19.2

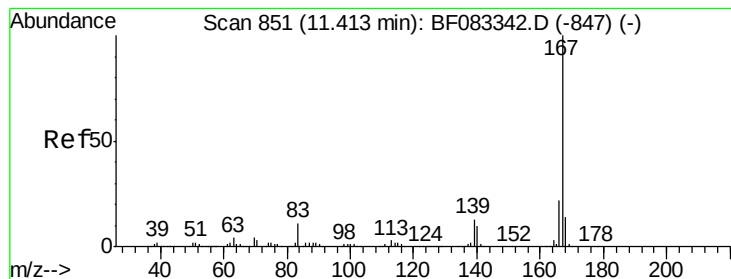


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.78 ng

RT: 11.41 min Scan# 851

Delta R.T. 0.00 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Instrument :

BNA\_F

ClientSampleId :

S2-14.5

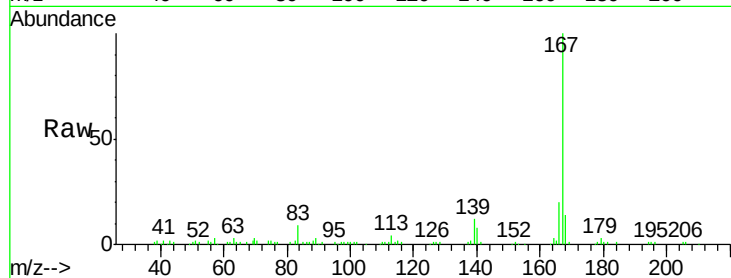
Tgt Ion:167 Resp: 112103

Ion Ratio Lower Upper

167 100

166 20.4 17.4 26.0

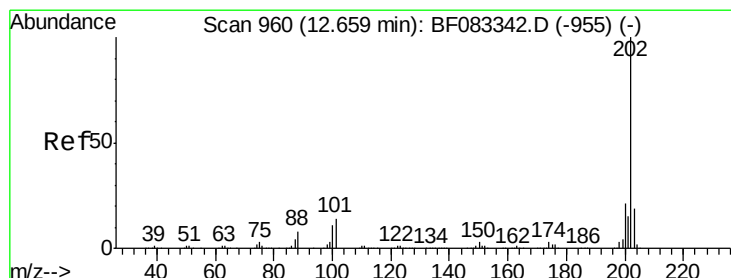
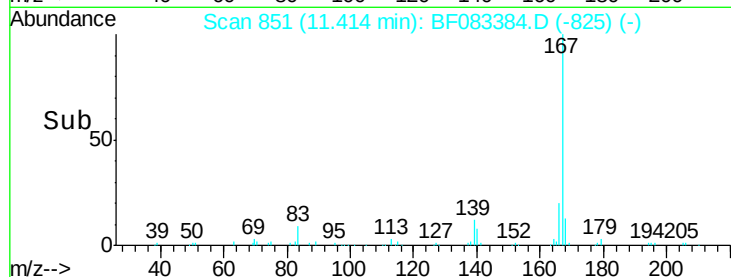
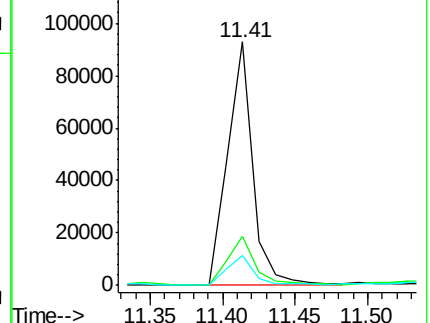
139 12.3 10.5 15.7



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: 49.97 ng

RT: 12.66 min Scan# 960

Delta R.T. 0.00 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

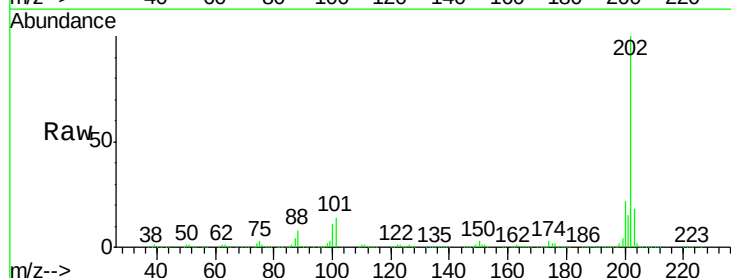
Tgt Ion:202 Resp: 1697325

Ion Ratio Lower Upper

202 100

101 14.2 0.0 34.5

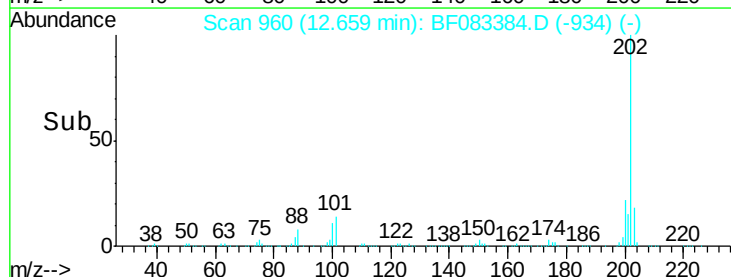
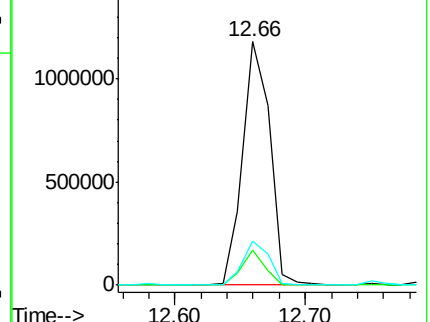
203 18.2 0.0 38.7

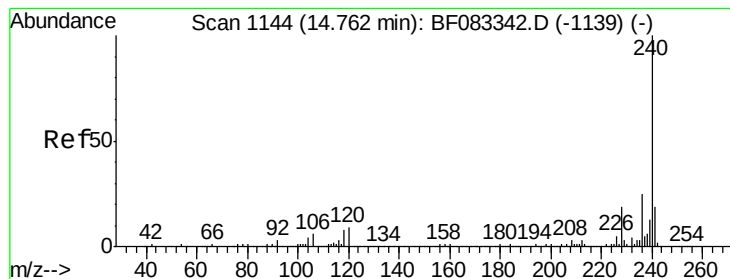


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.75 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Instrument :

BNA\_F

ClientSampleId :

S2-14.5

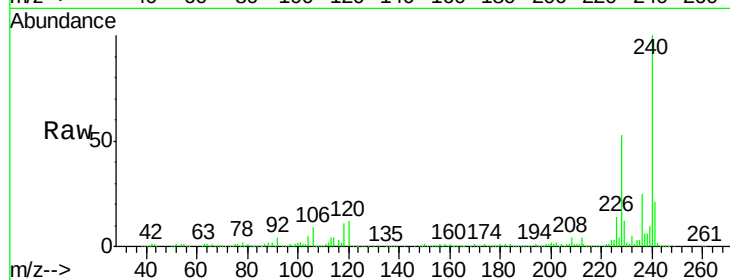
Tgt Ion:240 Resp: 417773

Ion Ratio Lower Upper

240 100

120 12.1 6.9 10.3#

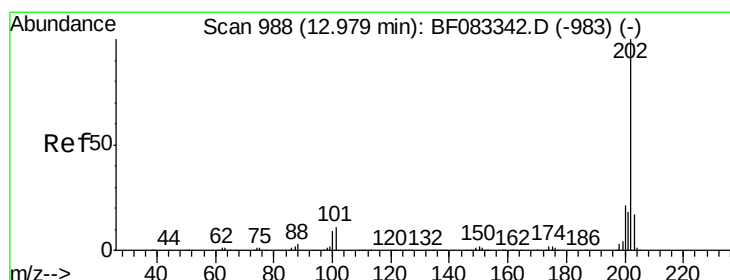
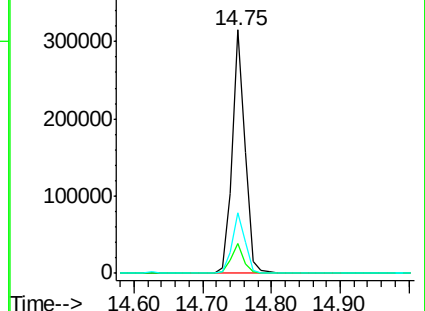
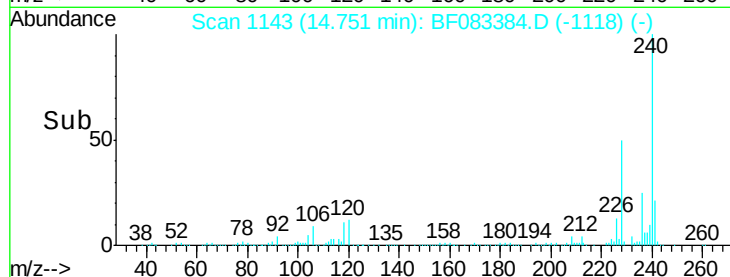
236 25.1 19.8 29.6



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

Pyrene

Concen: 51.51 ng

RT: 12.97 min Scan# 987

Delta R.T. -0.01 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

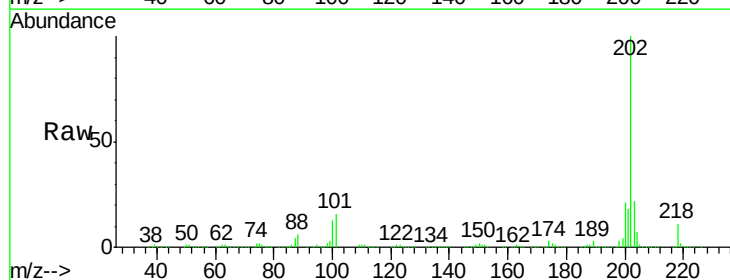
Tgt Ion:202 Resp: 1502730

Ion Ratio Lower Upper

202 100

200 21.3 16.9 25.3

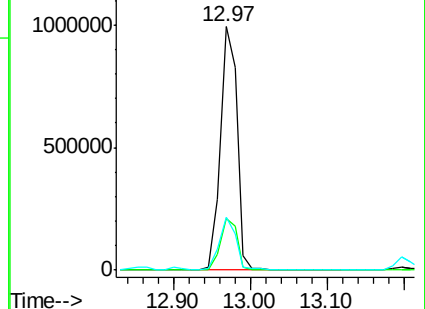
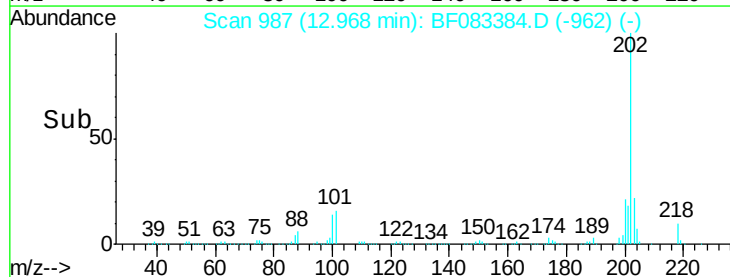
203 21.9 13.9 20.9#

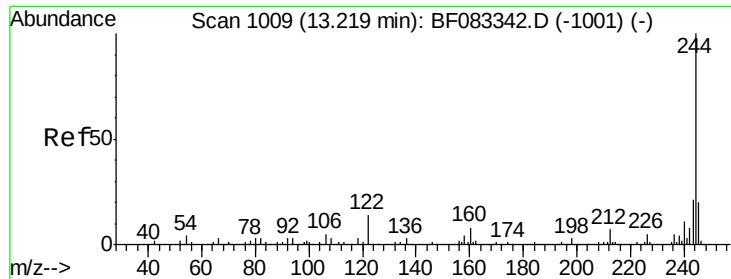


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

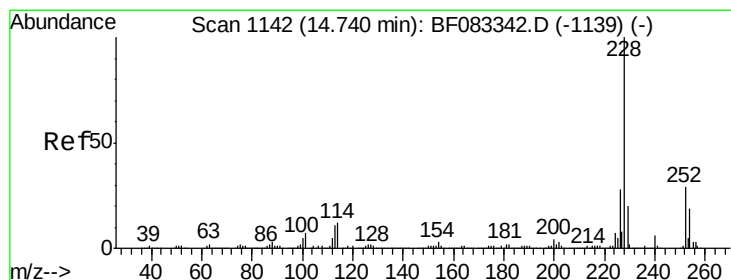
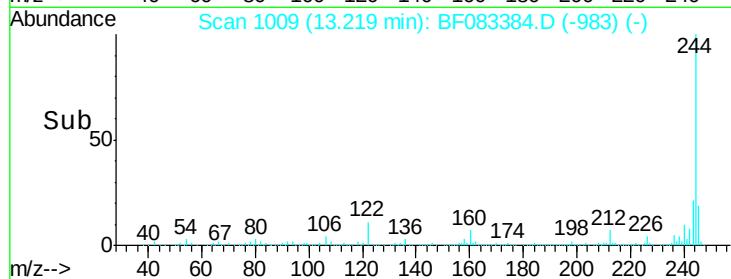
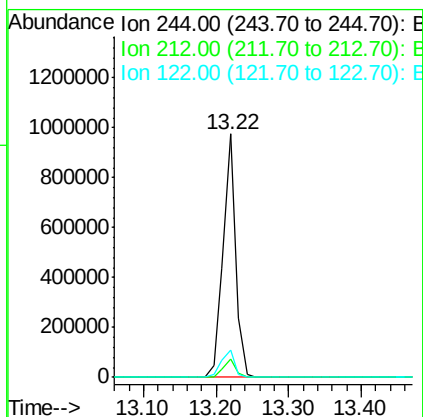
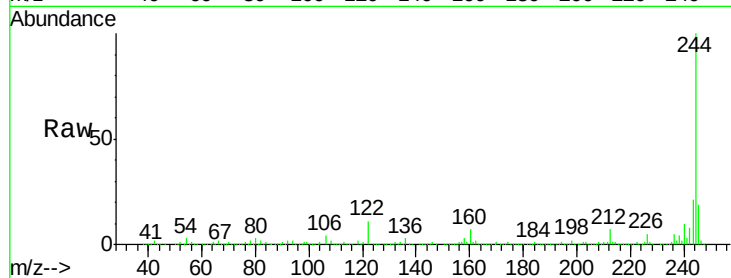




#78  
 Terphenyl-d14  
 Concen: 67.34 ng  
 RT: 13.22 min Scan# 1009  
 Delta R.T. 0.00 min  
 Lab File: BF083384.D  
 Acq: 1 Dec 2015 20:57

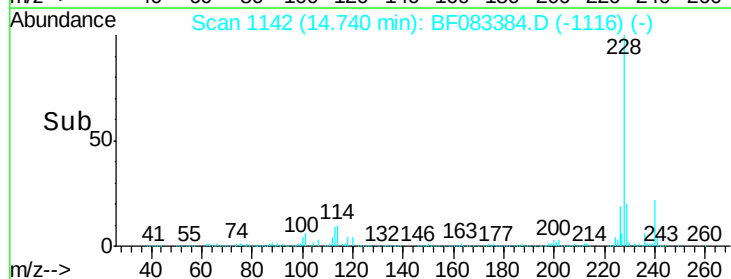
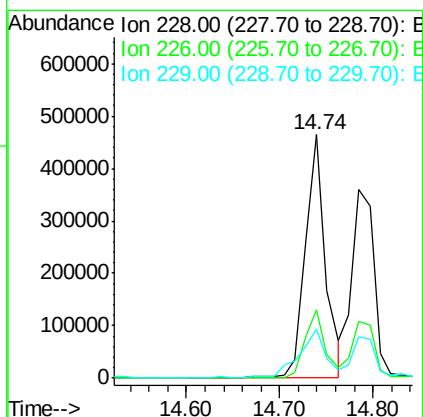
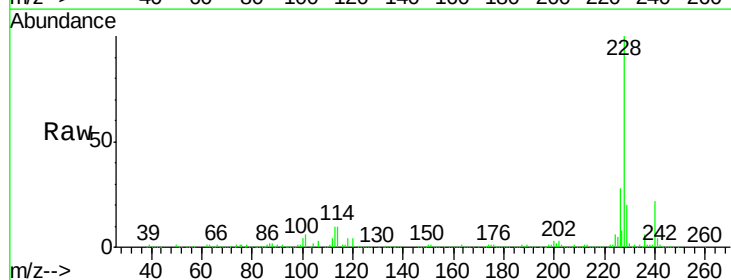
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S2-14.5

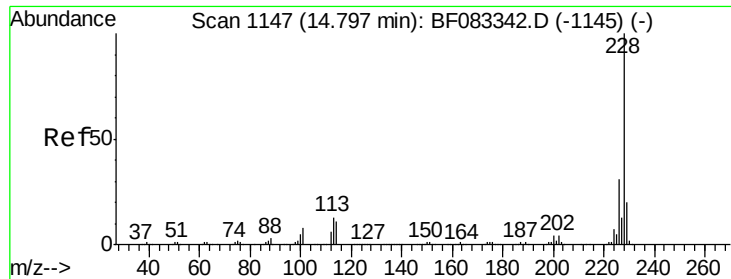
Tgt Ion:244 Resp: 1179678  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.8 8.8  
 122 11.4 11.0 16.4



#80  
 Benzo(a)anthracene  
 Concen: 27.28 ng  
 RT: 14.74 min Scan# 1142  
 Delta R.T. 0.00 min  
 Lab File: BF083384.D  
 Acq: 1 Dec 2015 20:57

Tgt Ion:228 Resp: 698188  
 Ion Ratio Lower Upper  
 228 100  
 226 27.9 22.2 33.4  
 229 19.9 16.1 24.1





#82

Chrysene

Concen: 24.16 ng

RT: 14.79 min Scan# 1146

Delta R.T. -0.01 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Instrument :

BNA\_F

ClientSampleId :

S2-14.5

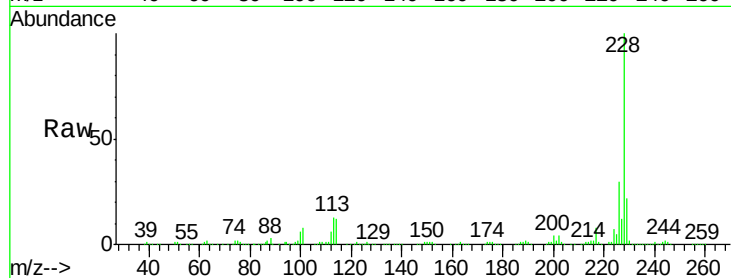
Tgt Ion: 228 Resp: 597496

Ion Ratio Lower Upper

228 100

226 30.2 24.6 37.0

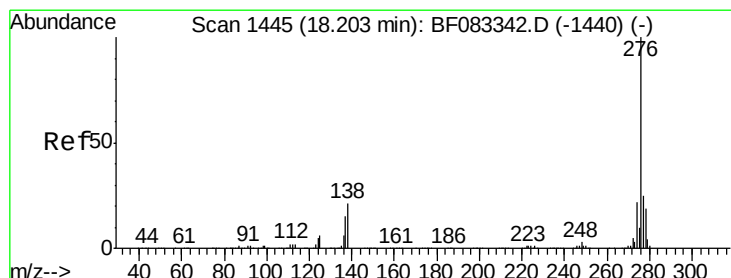
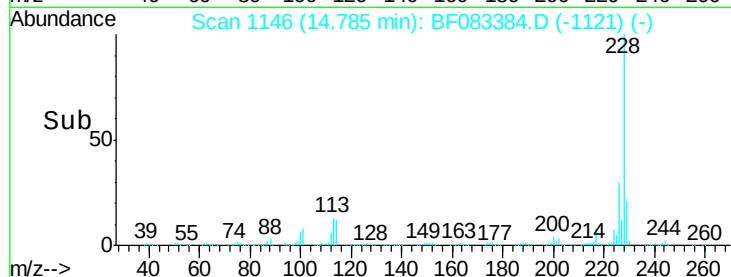
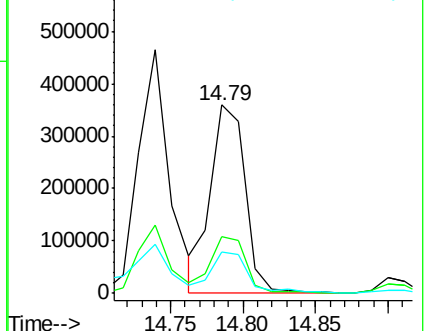
229 21.9 16.2 24.2



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 15.29 ng

RT: 18.20 min Scan# 1445

Delta R.T. 0.00 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

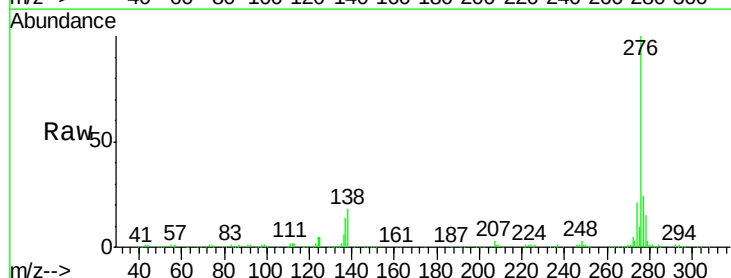
Tgt Ion: 276 Resp: 275417

Ion Ratio Lower Upper

276 100

138 22.1 21.2 31.8

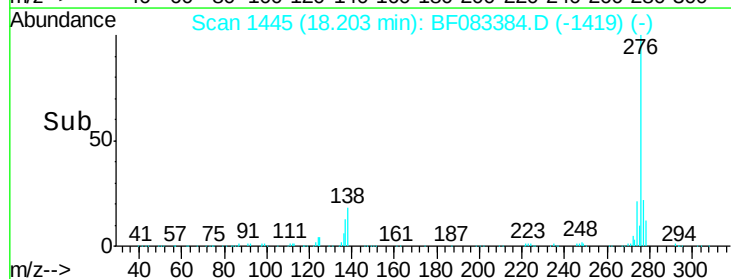
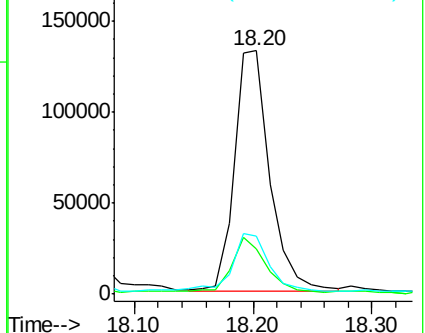
277 26.0 20.0 30.0



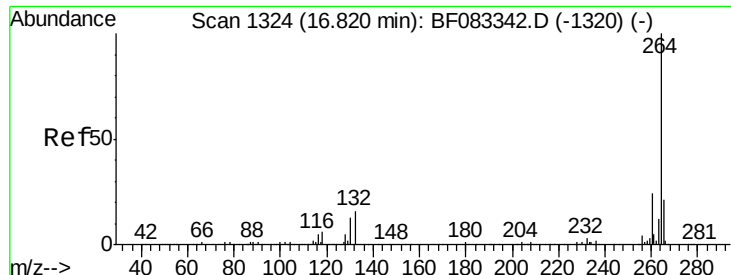
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





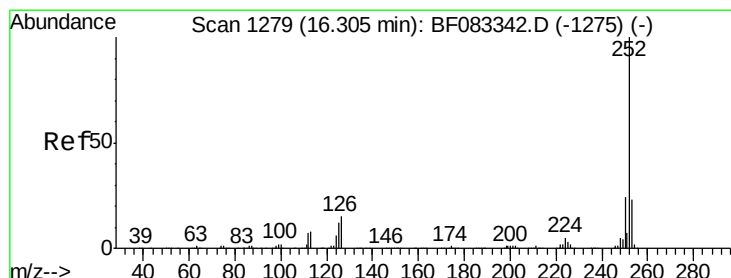
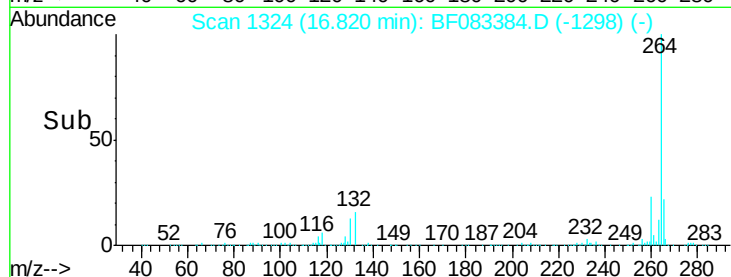
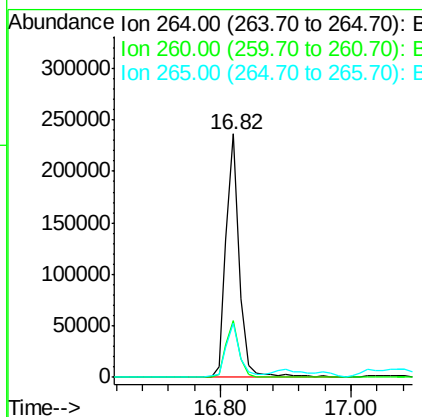
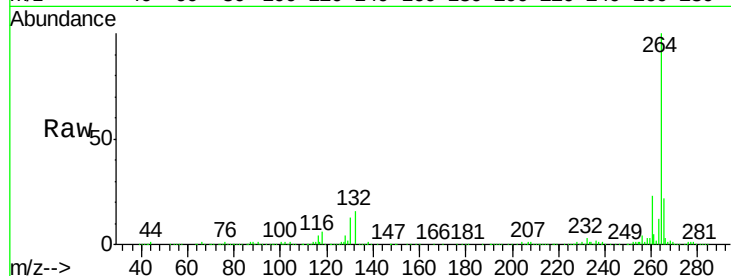


#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 16.82 min Scan# 1324  
Delta R.T. 0.00 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
S2-14.5

Tgt Ion: 264 Resp: 336260  

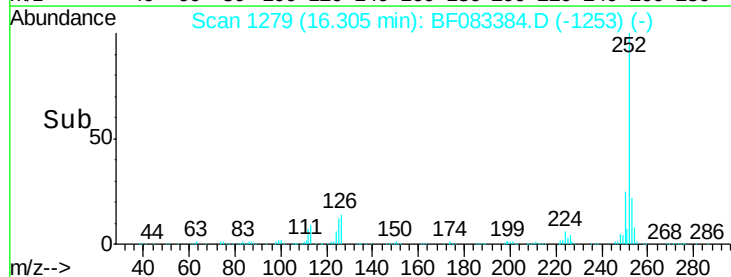
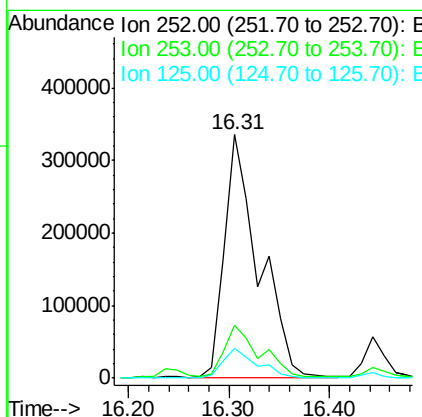
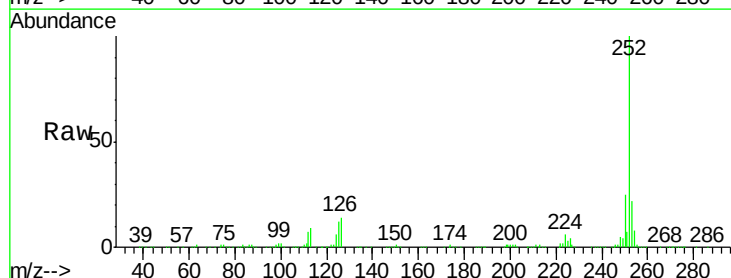
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.5  | 19.0  | 28.4  |
| 265 | 22.5  | 16.8  | 25.2  |

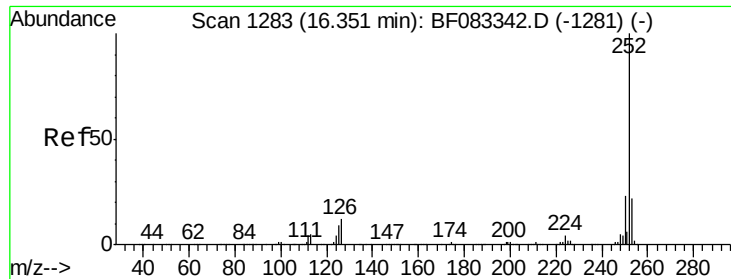


#87  
Benzo(b)fluoranthene  
Concen: 36.82 ng  
RT: 16.31 min Scan# 1279  
Delta R.T. 0.00 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

Tgt Ion: 252 Resp: 794501  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.0  | 18.4  | 27.6  |
| 125 | 12.1  | 9.6   | 14.4  |

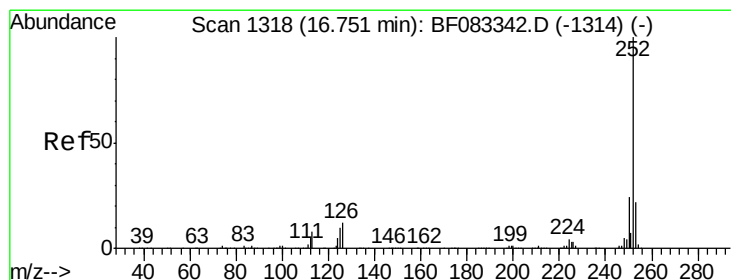
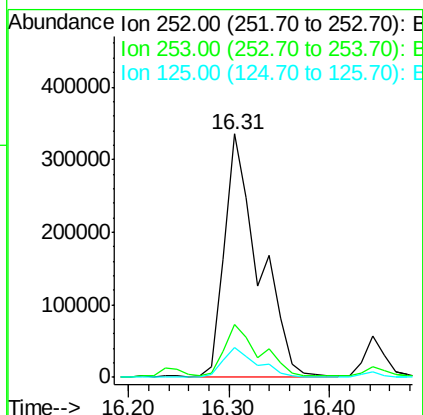
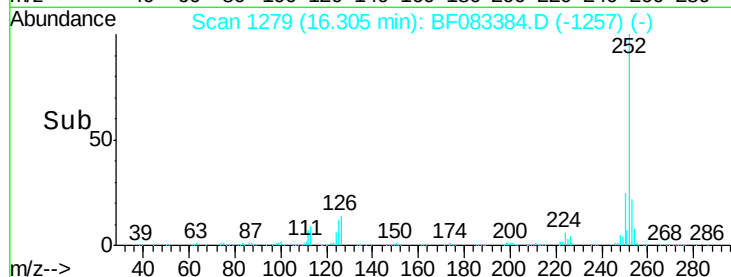
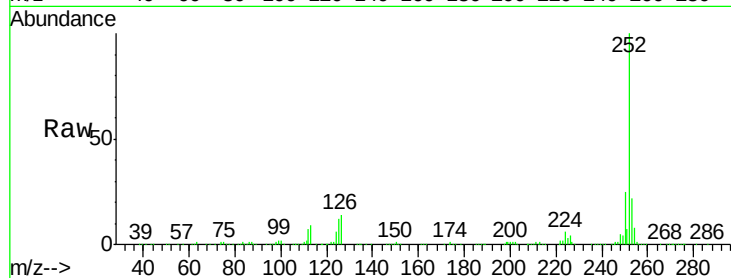




#88  
Benzo(k)fluoranthene  
Concen: 39.00 ng  
RT: 16.31 min Scan# 1279  
Delta R.T. -0.05 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

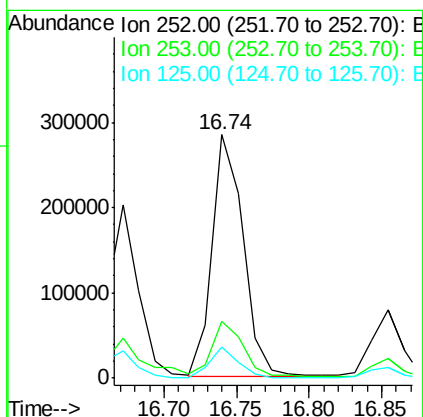
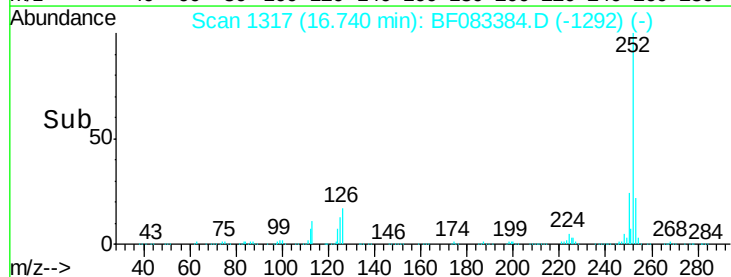
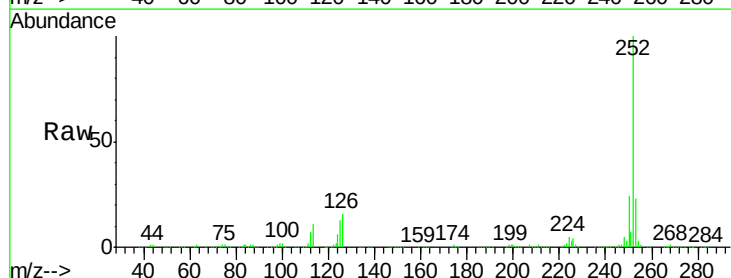
Instrument :  
BNA\_F  
ClientSampleId :  
S2-14.5

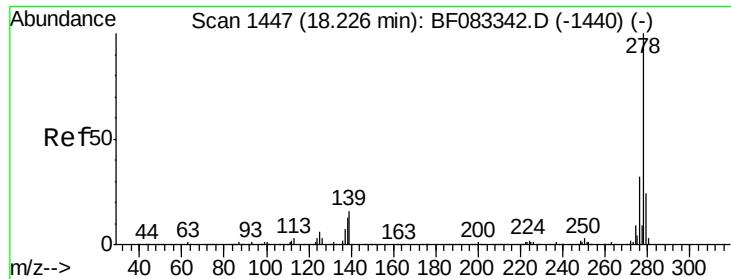
Tgt Ion:252 Resp: 794501  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.4 26.0  
125 12.1 7.5 11.3#



#89  
Benzo(a)pyrene  
Concen: 23.11 ng  
RT: 16.74 min Scan# 1317  
Delta R.T. -0.01 min  
Lab File: BF083384.D  
Acq: 1 Dec 2015 20:57

Tgt Ion:252 Resp: 428344  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.5 26.3  
125 12.8 7.8 11.8#





#90

Dibenzo(a,h)anthracene

Concen: 3.28 ng

RT: 18.36 min Scan# 1459

Delta R.T. 0.14 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

Instrument :

BNA\_F

ClientSampleId :

S2-14.5

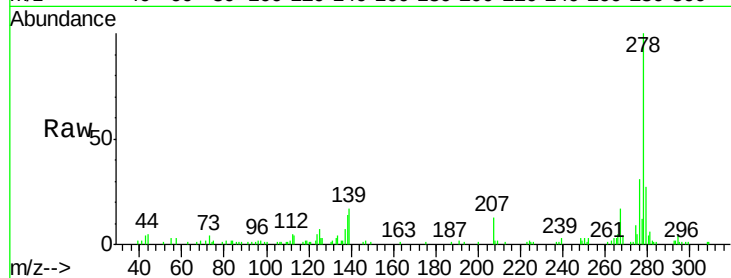
Tgt Ion: 278 Resp: 53000

Ion Ratio Lower Upper

278 100

139 16.7 13.1 19.7

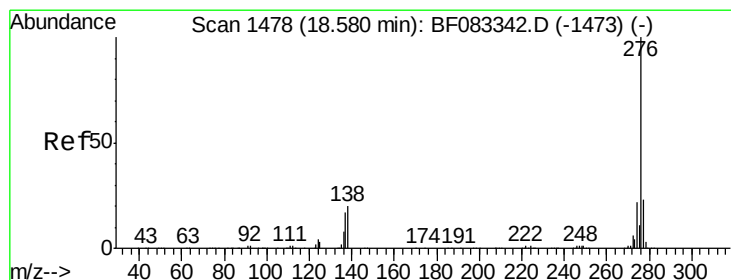
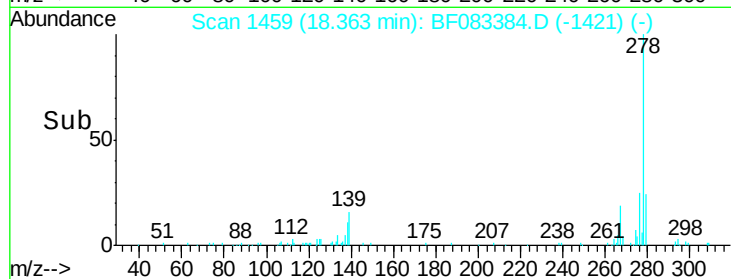
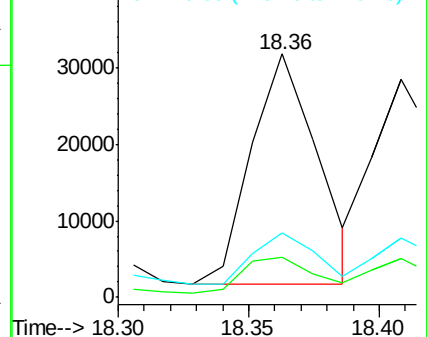
279 26.6 19.2 28.8



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(g,h,i)perylene

Concen: 16.90 ng

RT: 18.57 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF083384.D

Acq: 1 Dec 2015 20:57

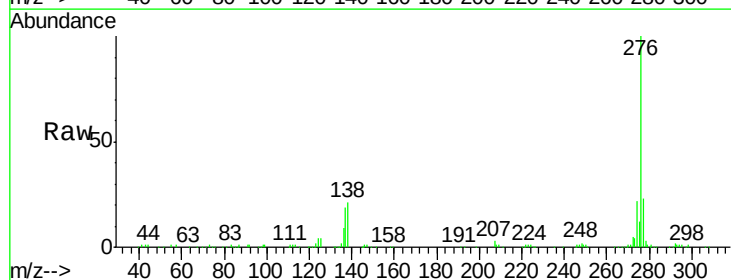
Tgt Ion: 276 Resp: 267787

Ion Ratio Lower Upper

276 100

277 23.3 18.6 28.0

138 21.0 16.1 24.1



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

