

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\  
 Data File : BF083187.D  
 Acq On : 23 Nov 2015 5:01  
 Operator : UM/IZ  
 Sample : G4475-05  
 Misc :  
 ALS Vial : 73 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 H5

Quant Time: Nov 23 06:29:59 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 09:22:46 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.65  | 152  | 193842   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 7.94  | 136  | 693949   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.68  | 164  | 307726   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.16 | 188  | 508492   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.78 | 240  | 436110   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.15 | 264  | 349315   | 20.00 | ng    | -0.01    |

|                             |       |     |         |       |    |       |
|-----------------------------|-------|-----|---------|-------|----|-------|
| System Monitoring Compounds |       |     |         |       |    |       |
| 5) 2-Fluorophenol           | 5.24  | 112 | 1086164 | 84.71 | ng | -0.03 |
| 7) Phenol-d6                | 6.32  | 99  | 1650751 | 99.51 | ng | -0.02 |
| 23) Nitrobenzene-d5         | 7.22  | 82  | 1001553 | 65.95 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 10.47 | 330 | 246231  | 78.21 | ng | -0.02 |
| 44) 2-Fluorobiphenyl        | 9.02  | 172 | 1352273 | 61.28 | ng | -0.01 |
| 78) Terphenyl-d14           | 12.74 | 244 | 933584  | 50.41 | ng | -0.02 |

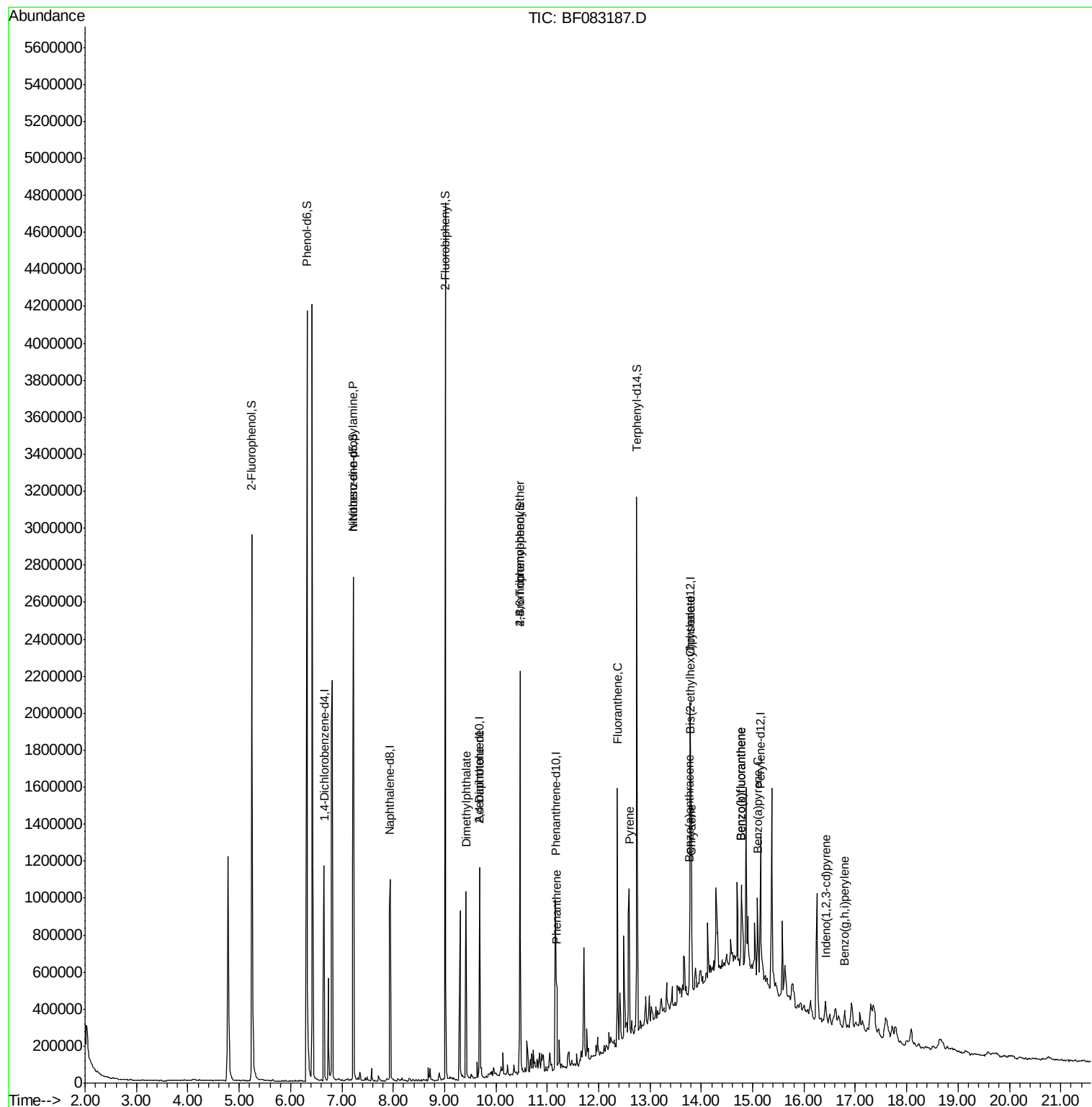
|                                |       |     |        |           |    |      |
|--------------------------------|-------|-----|--------|-----------|----|------|
| Target Compounds               |       |     |        | Qvalue    |    |      |
| 9) Benzaldehyde                | 6.32  | 77  | 2985   | Below Cal | #  | 4    |
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70  | 134342 | 11.64     | ng | 74   |
| 49) Dimethylphthalate          | 9.42  | 163 | 378980 | 16.00     | ng | 100  |
| 56) 2,4-Dinitrotoluene         | 9.68  | 165 | 41483  | 6.16      | ng | 11   |
| 66) 4-Bromophenyl-phenylether  | 10.47 | 248 | 16409  | 2.91      | ng | 1    |
| 70) Phenanthrene               | 11.19 | 178 | 264922 | 9.04      | ng | 96   |
| 74) Fluoranthene               | 12.37 | 202 | 534728 | 17.83     | ng | 100  |
| 77) Pyrene                     | 12.59 | 202 | 416157 | 13.97     | ng | 96   |
| 80) Benzo(a)anthracene         | 13.77 | 228 | 223178 | 8.27      | ng | 100  |
| 82) Chrysene                   | 13.81 | 228 | 199021 | 7.96      | ng | 99   |
| 83) Bis(2-ethylhexyl)phthalate | 13.79 | 149 | 146620 | 7.96      | ng | # 96 |
| 85) Indeno(1,2,3-cd)pyrene     | 16.42 | 276 | 86194  | 3.79      | ng | 99   |
| 87) Benzo(b)fluoranthene       | 14.78 | 252 | 310040 | 12.99     | ng | # 93 |
| 88) Benzo(k)fluoranthene       | 14.78 | 252 | 310040 | 17.43     | ng | # 94 |
| 89) Benzo(a)pyrene             | 15.10 | 252 | 136471 | 6.93      | ng | # 93 |
| 91) Benzo(g,h,i)perylene       | 16.79 | 276 | 79383  | 4.54      | ng | # 94 |

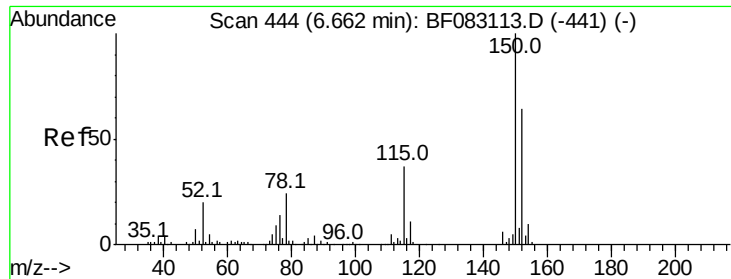
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\  
Data File : BF083187.D  
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Sample : G4475-05  
Misc :  
ALS Vial : 73 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
H5

Quant Time: Nov 23 06:29:59 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 09:22:46 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampled :

H5

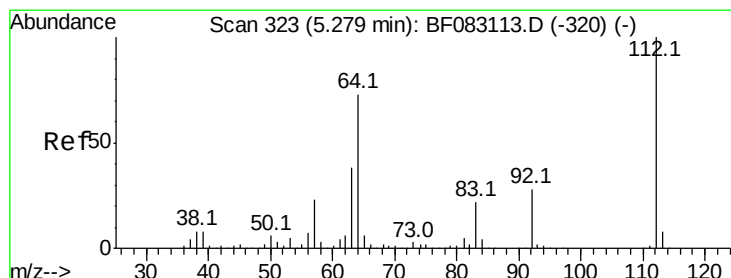
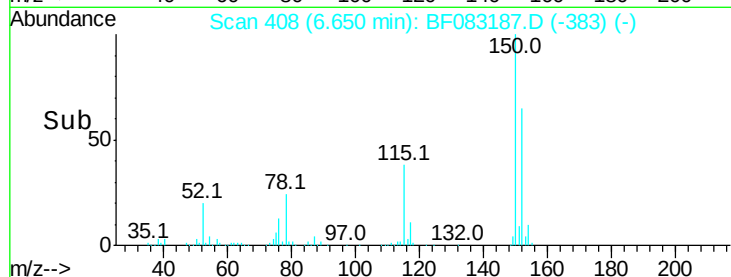
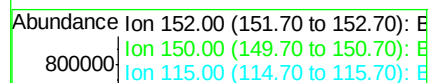
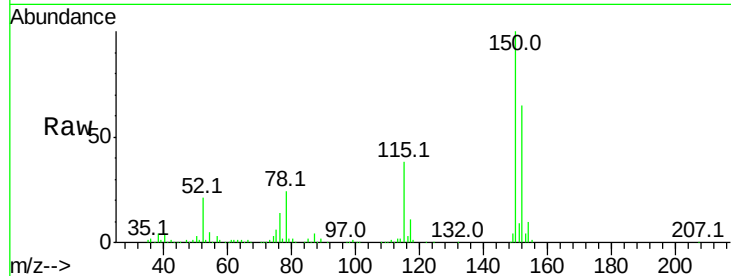
Tot Ion:152 Resp: 193842

Ion Ratio Lower Upper

152 100

150 153.0 125.8 188.8

115 57.9 46.9 70.3



#5

2-Fluorophenol

Concen: 84.71 ng

RT: 5.24 min Scan# 285

Delta R.T. -0.03 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

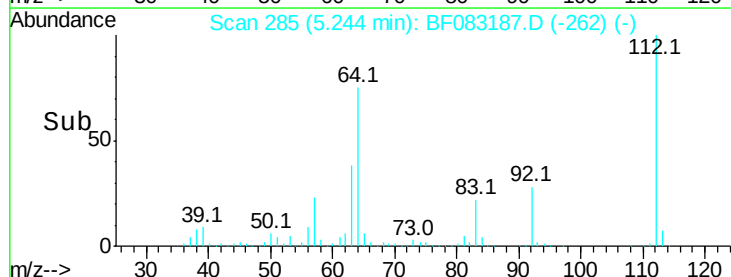
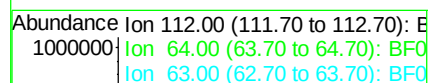
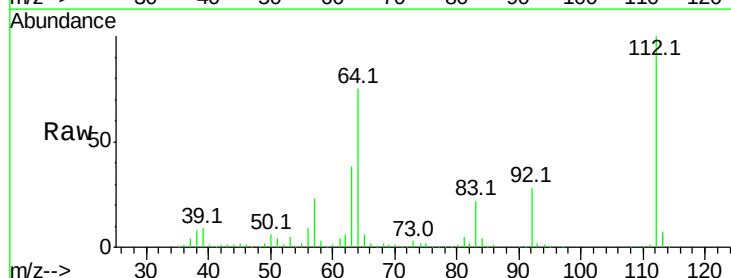
Tgt Ion:112 Resp: 1086164

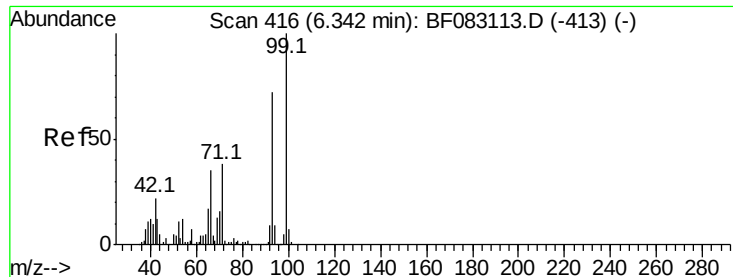
Ion Ratio Lower Upper

112 100

64 75.1 58.4 87.6

63 38.1 30.0 45.0





#7

Phenol-d6

Concen: 99.51 ng

RT: 6.32 min Scan# 379

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

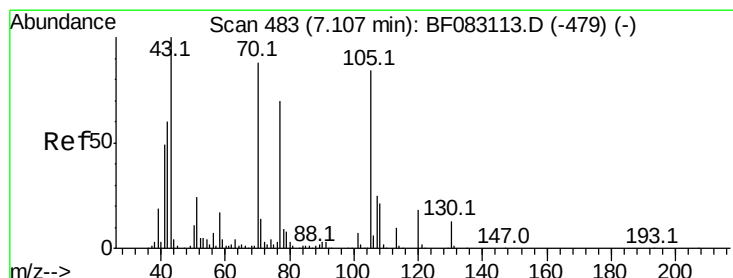
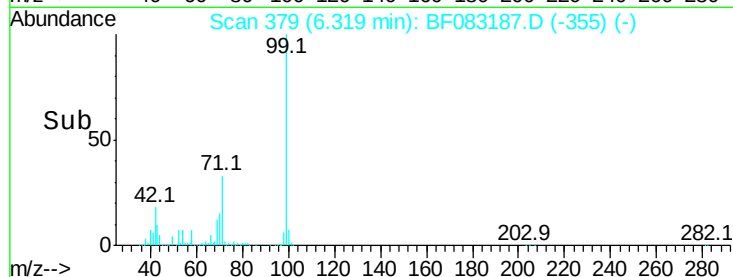
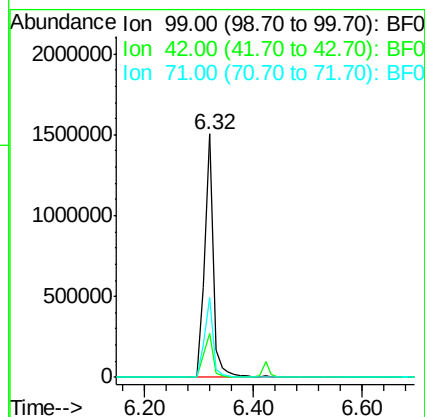
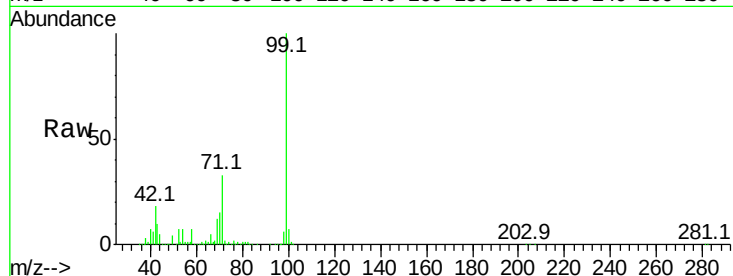
Tot Ion: 99 Resp: 1650751

Ion Ratio Lower Upper

99 100

42 18.3 17.7 26.5

71 32.7 30.2 45.4



#19

n-Nitroso-di-n-propylamine

Concen: 11.64 ng

RT: 7.22 min Scan# 458

Delta R.T. 0.11 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Tgt Ion: 70 Resp: 134342

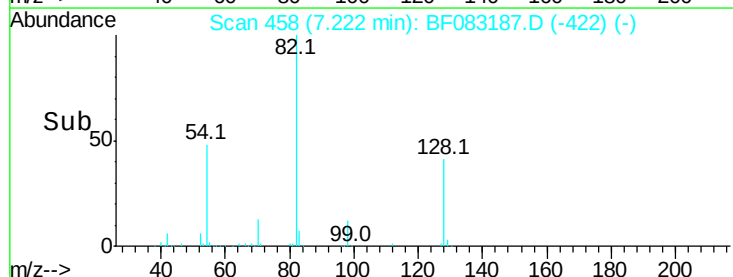
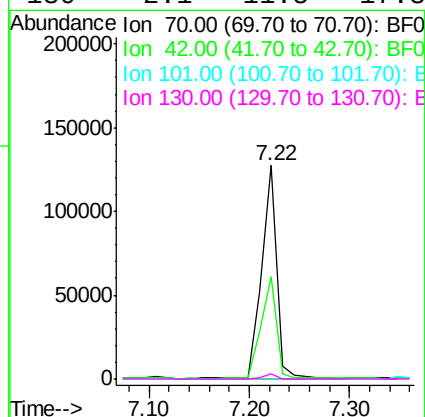
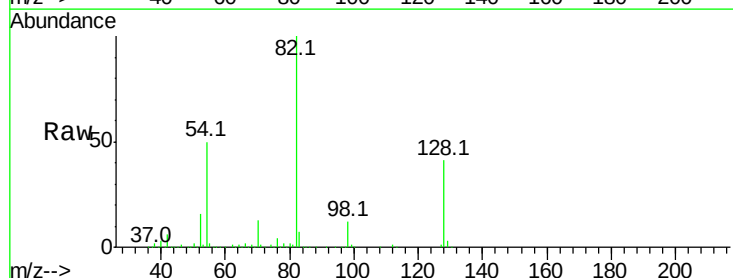
Ion Ratio Lower Upper

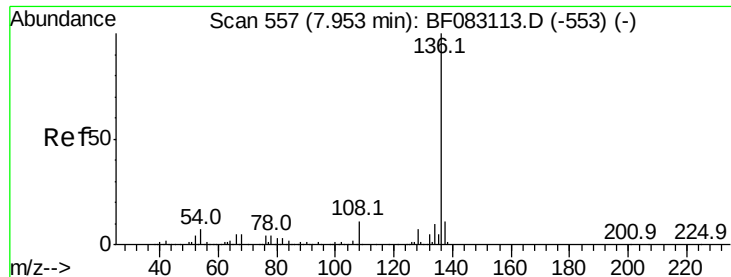
70 100

42 47.9 54.5 81.7#

101 0.0 6.6 9.8#

130 2.1 11.5 17.3#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.94 min Scan# 521

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

Tot Ion:136 Resp: 693949

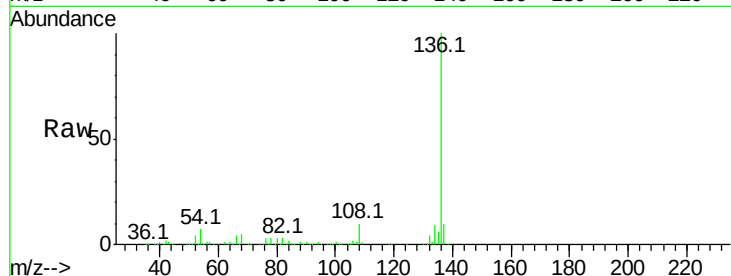
Ion Ratio Lower Upper

136 100

137 10.3 8.7 13.1

54 7.0 5.8 8.6

68 5.2 3.8 5.8

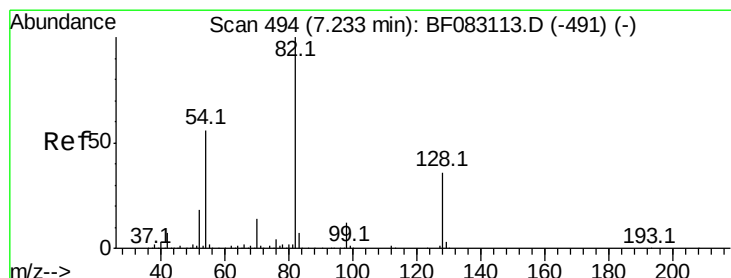
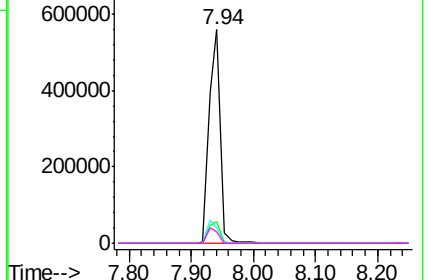
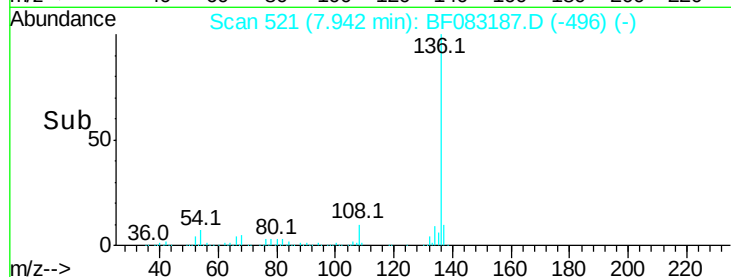


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 65.95 ng

RT: 7.22 min Scan# 458

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

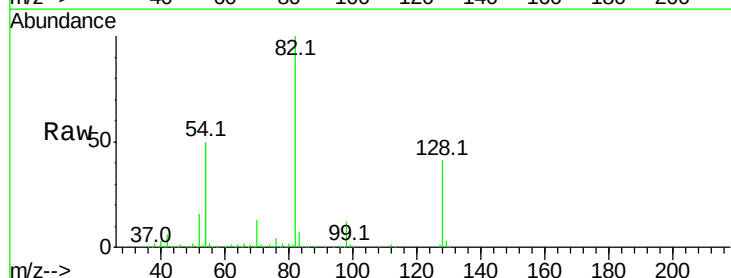
Tgt Ion: 82 Resp: 1001553

Ion Ratio Lower Upper

82 100

128 41.5 28.5 42.7

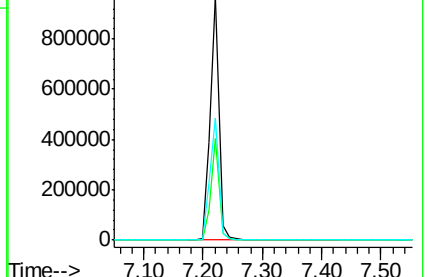
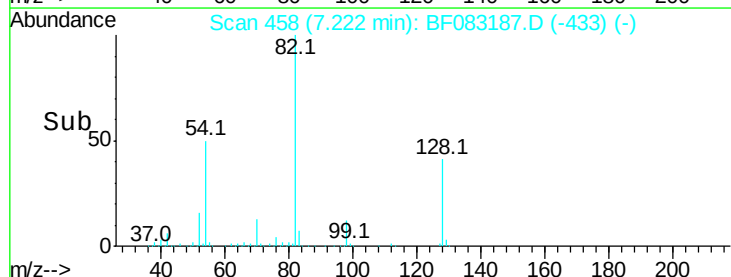
54 50.3 44.6 67.0

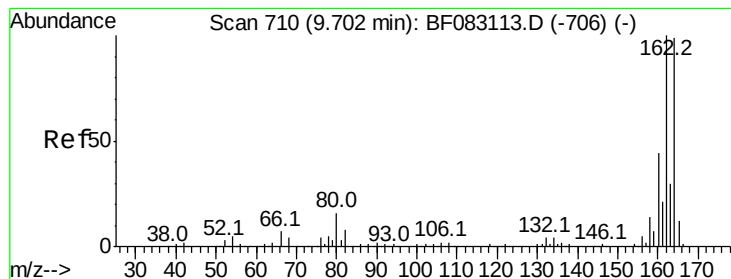


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

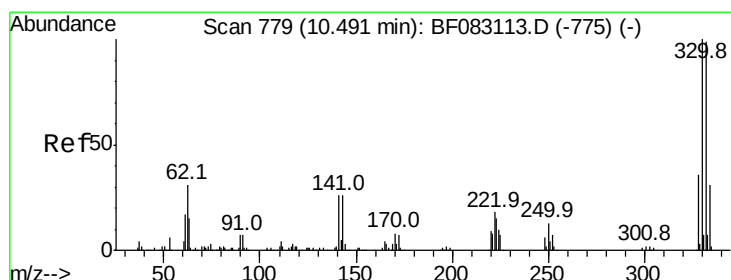
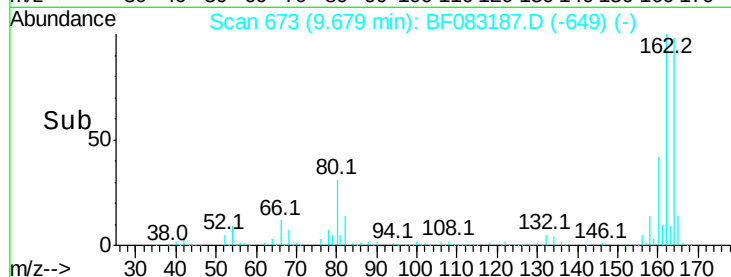
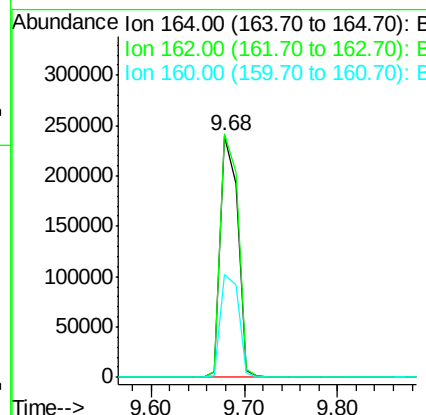
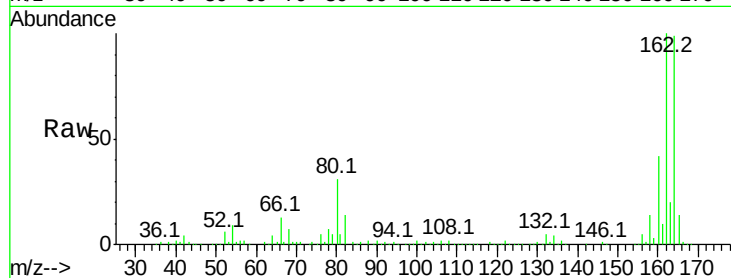




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.68 min Scan# 673  
 Delta R.T. -0.02 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

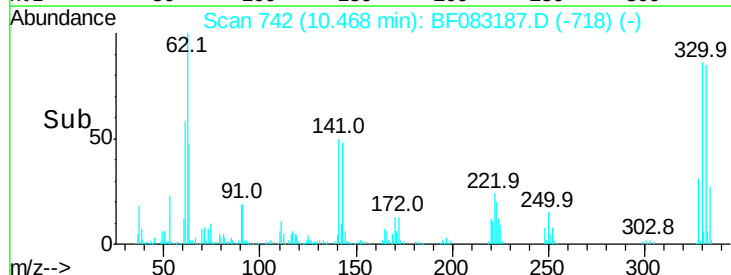
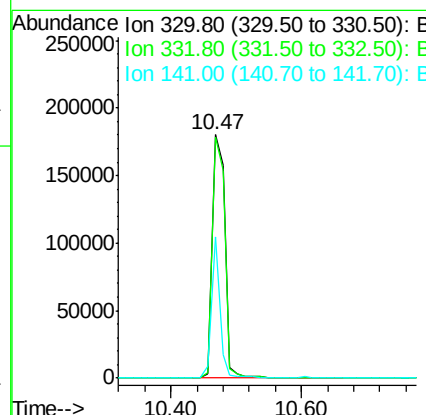
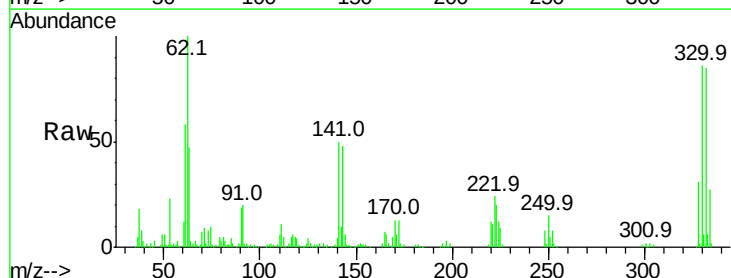
Instrument :  
 BNA\_F  
 ClientSampleId :  
 H5

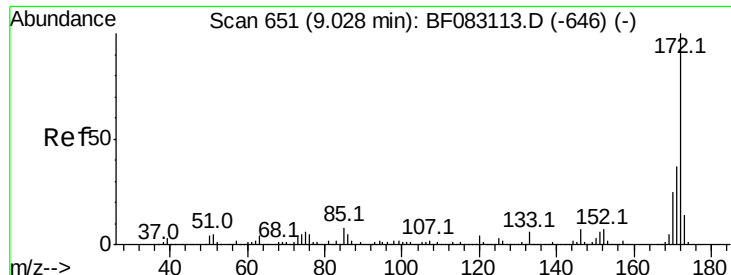
Tot Ion:164 Resp: 307726  
 Ion Ratio Lower Upper  
 164 100  
 162 100.7 81.2 121.8  
 160 42.7 35.6 53.4



#41  
 2,4,6-Tribromophenol  
 Concen: 78.21 ng  
 RT: 10.47 min Scan# 742  
 Delta R.T. -0.02 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

Tgt Ion:330 Resp: 246231  
 Ion Ratio Lower Upper  
 330 100  
 332 98.2 77.7 116.5  
 141 38.6 29.7 44.5

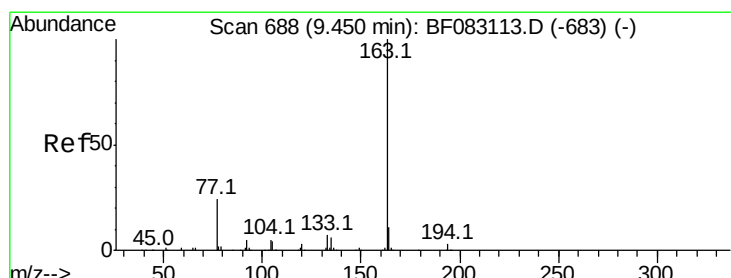
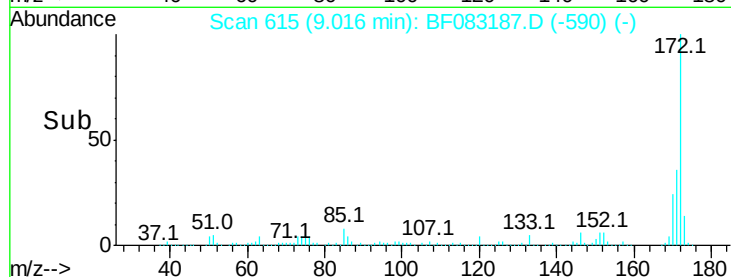
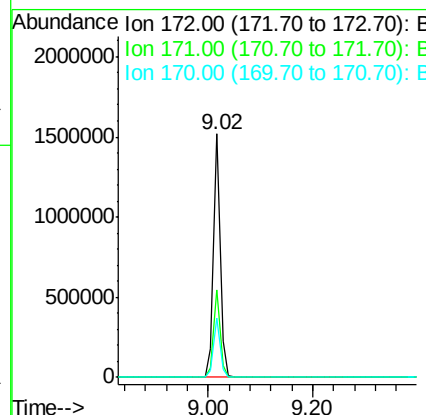
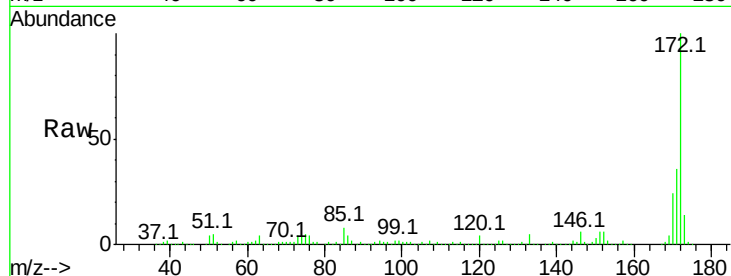




#44  
2-Fluorobiphenyl  
Concen: 61.28 ng  
RT: 9.02 min Scan# 615  
Delta R.T. -0.01 min  
Lab File: BF083187.D  
Acq: 23 Nov 2015 5:01

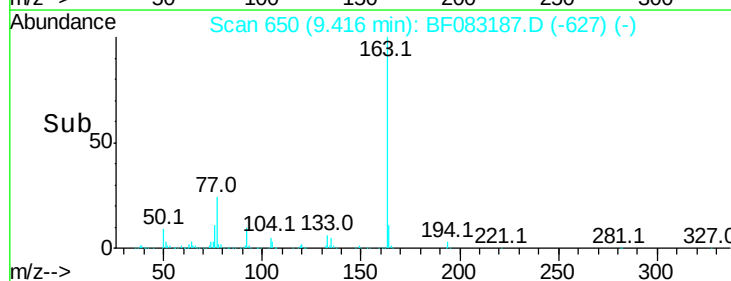
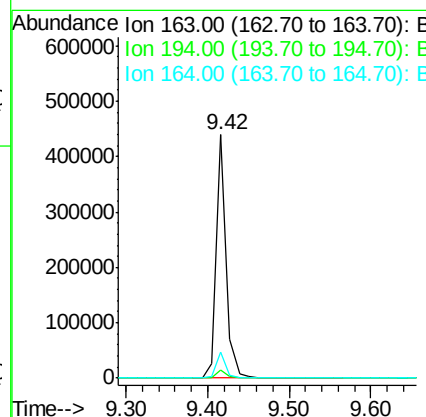
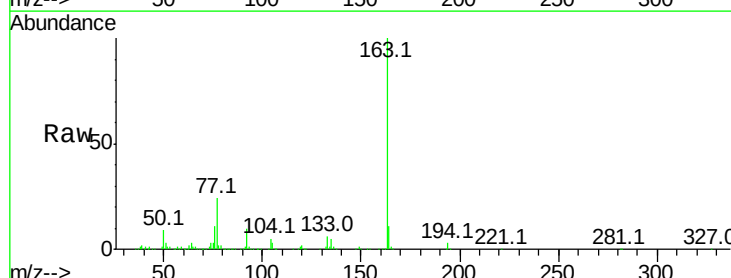
Instrument :  
BNA\_F  
ClientSampleId :  
H5

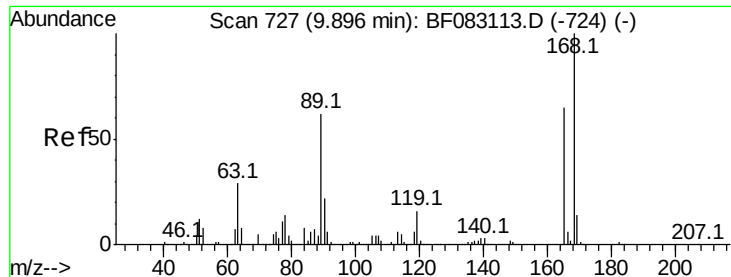
Tot Ion:172 Resp: 1352273  
Ion Ratio Lower Upper  
172 100  
171 35.9 29.5 44.3  
170 24.2 19.9 29.9



#49  
Dimethylphthalate  
Concen: 16.00 ng  
RT: 9.42 min Scan# 650  
Delta R.T. -0.03 min  
Lab File: BF083187.D  
Acq: 23 Nov 2015 5:01

Tgt Ion:163 Resp: 378980  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.6 4.0  
164 10.6 8.6 12.8





#56

2,4-Dinitrotoluene

Concen: 6.16 ng

RT: 9.68 min Scan# 673

Delta R.T. -0.22 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

Tot Ion:165 Resp: 41483

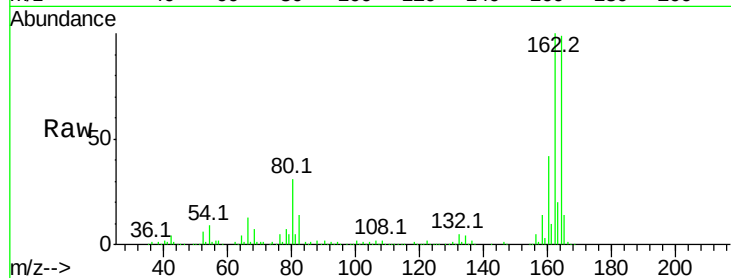
Ion Ratio Lower Upper

165 100

63 1.8 54.5 81.7#

89 2.0 77.3 115.9#

182 0.0 1.8 2.6#

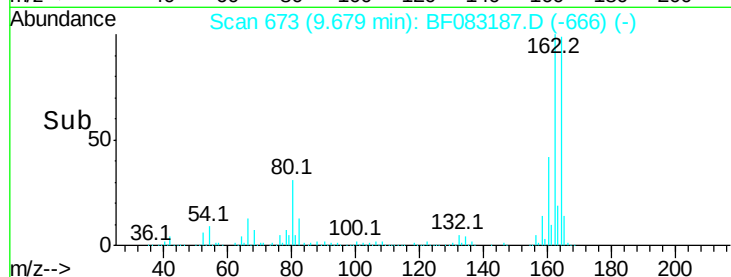


Abundance Ion 165.00 (164.70 to 165.70): E

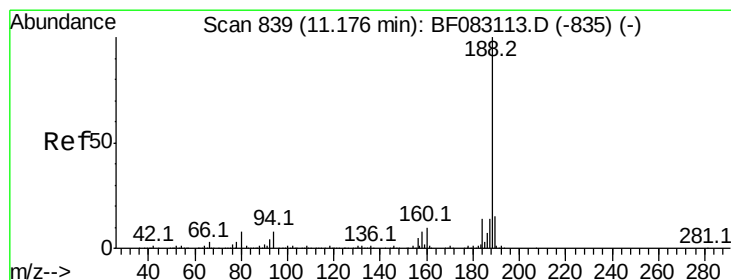
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



Time-->



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.16 min Scan# 803

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

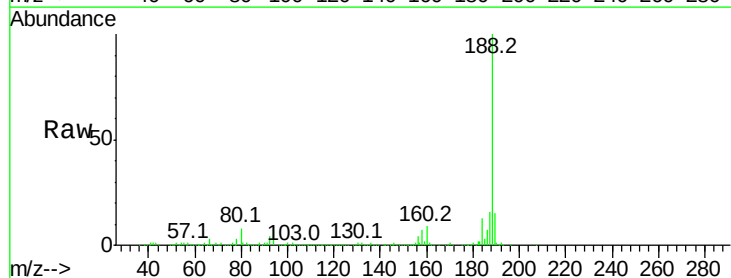
Tgt Ion:188 Resp: 508492

Ion Ratio Lower Upper

188 100

94 7.3 6.0 9.0

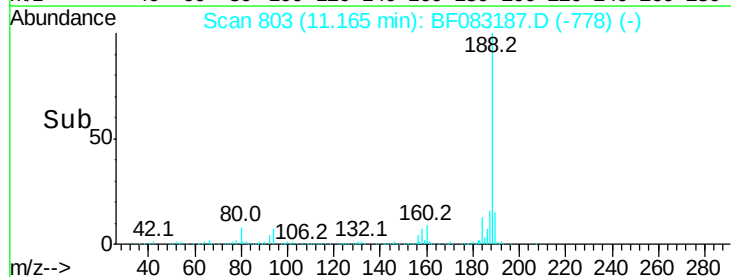
80 8.2 6.7 10.1



Abundance Ion 188.00 (187.70 to 188.70): E

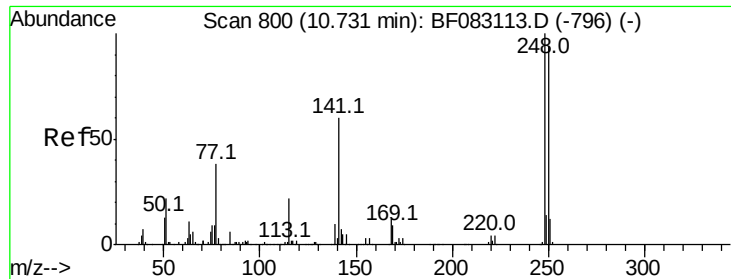
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time-->

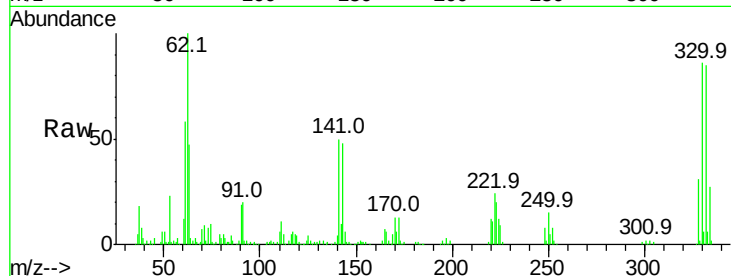




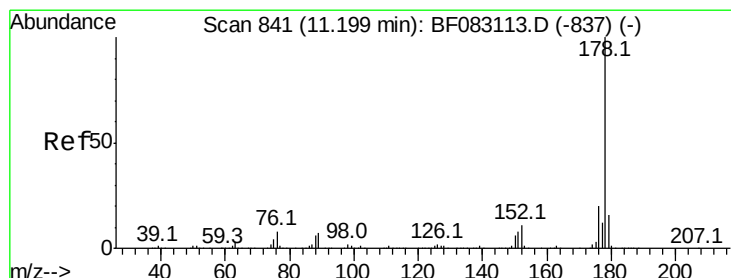
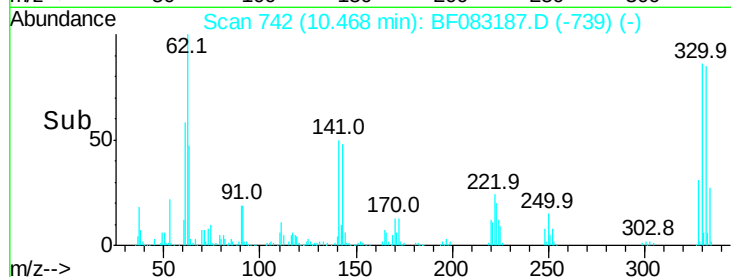
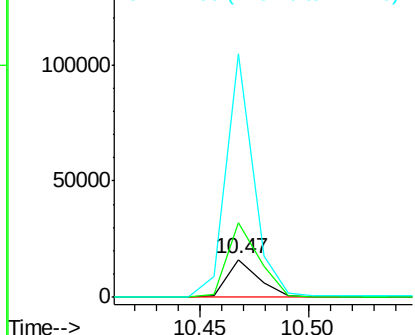
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.91 ng  
 RT: 10.47 min Scan# 742  
 Delta R.T. -0.26 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

Instrument :  
 BNA\_F  
 ClientSampled :  
 H5

Tot Ion:248 Resp: 16409  
 Ion Ratio Lower Upper  
 248 100  
 250 197.8 75.4 113.2#  
 141 645.9 48.1 72.1#

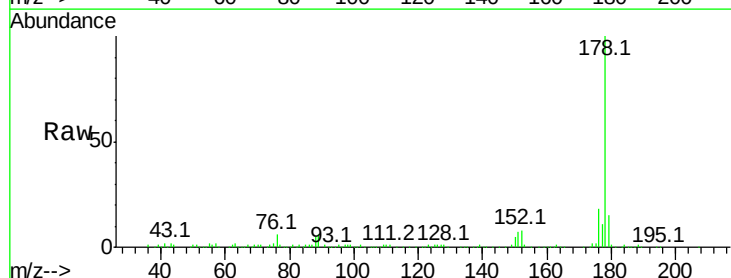


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

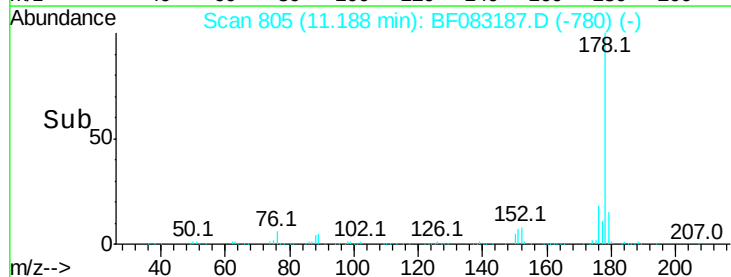
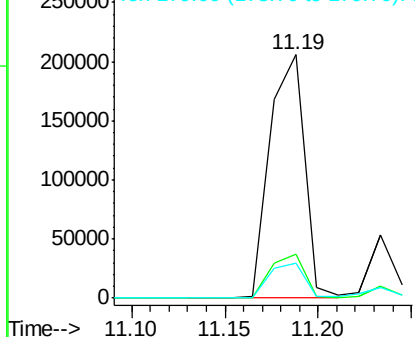


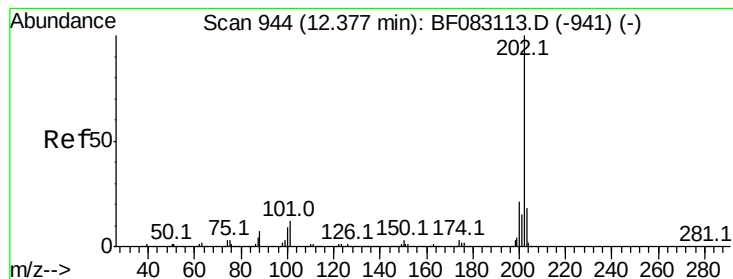
#70  
 Phenanthrene  
 Concen: 9.04 ng  
 RT: 11.19 min Scan# 805  
 Delta R.T. -0.01 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

Tgt Ion:178 Resp: 264922  
 Ion Ratio Lower Upper  
 178 100  
 176 18.3 16.2 24.2  
 179 14.5 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





#74

Fluoranthene

Concen: 17.83 ng

RT: 12.37 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

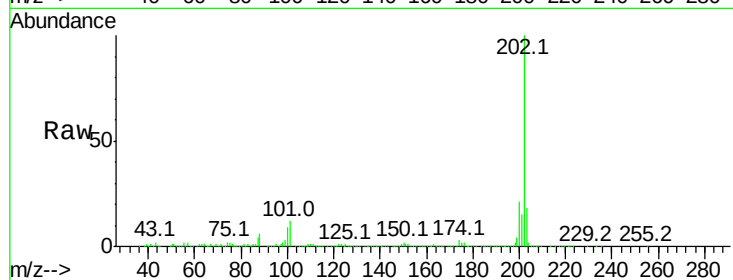
Tot Ion:202 Resp: 534728

Ion Ratio Lower Upper

202 100

101 12.1 0.0 32.3

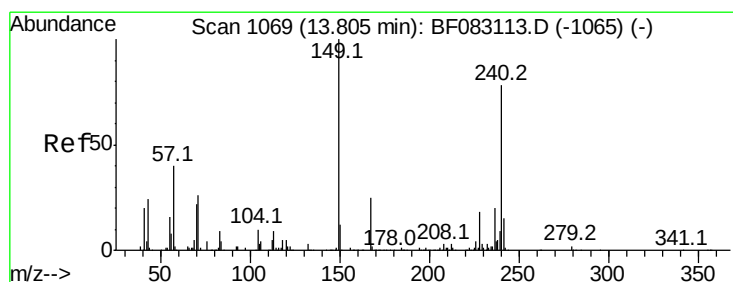
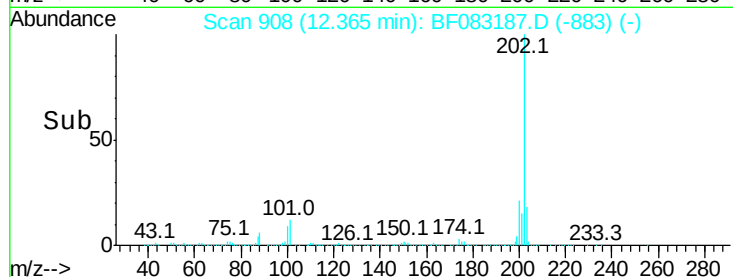
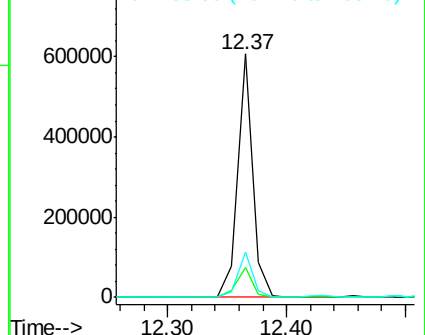
203 18.4 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.78 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

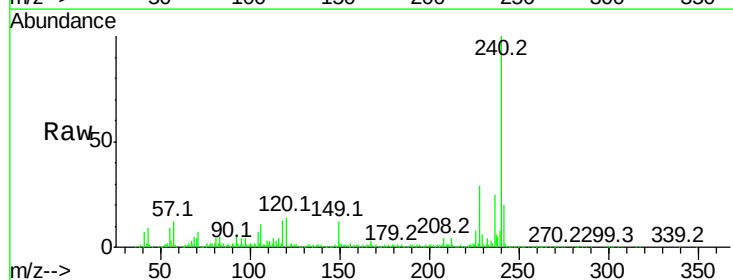
Tgt Ion:240 Resp: 436110

Ion Ratio Lower Upper

240 100

120 14.1 5.4 8.2#

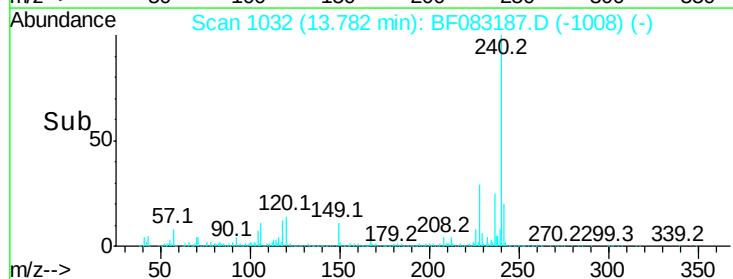
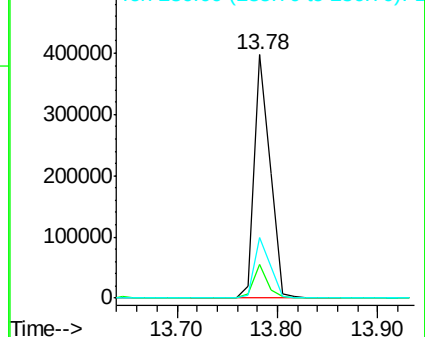
236 25.0 20.6 31.0

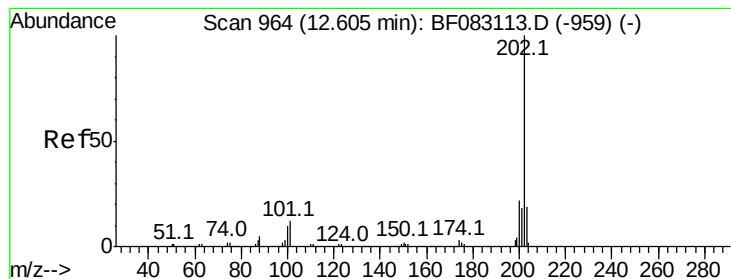


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 13.97 ng

RT: 12.59 min Scan# 928

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

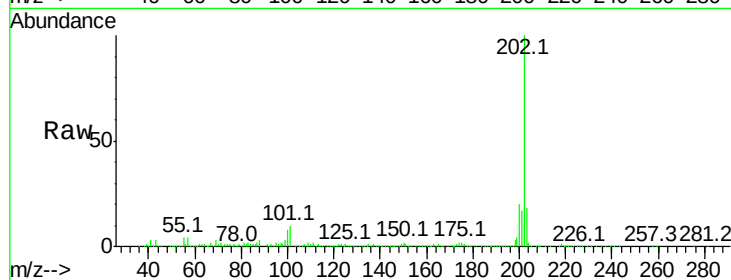
Tot Ion:202 Resp: 416157

Ion Ratio Lower Upper

202 100

200 19.9 17.8 26.6

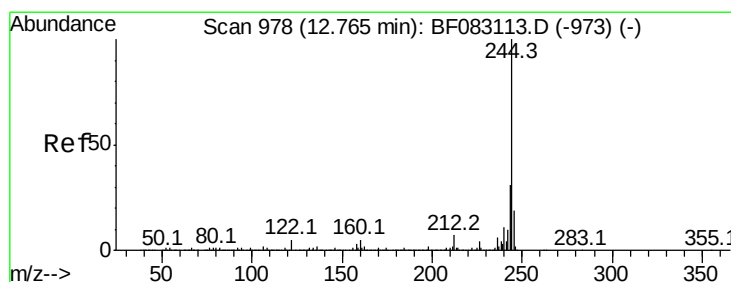
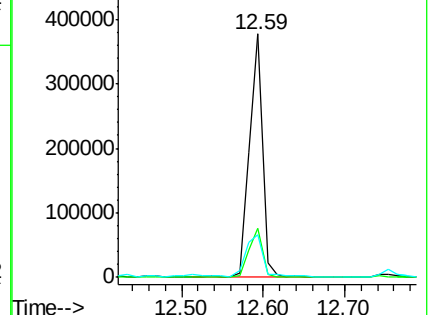
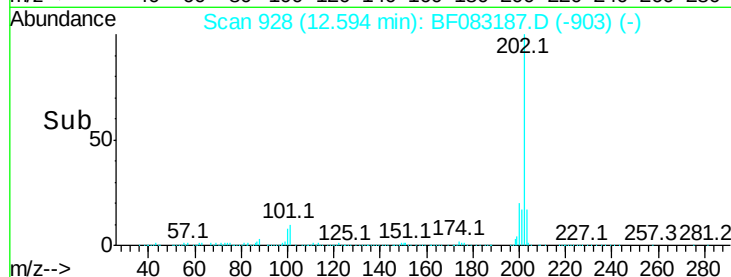
203 17.7 15.0 22.4



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: 50.41 ng

RT: 12.74 min Scan# 941

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

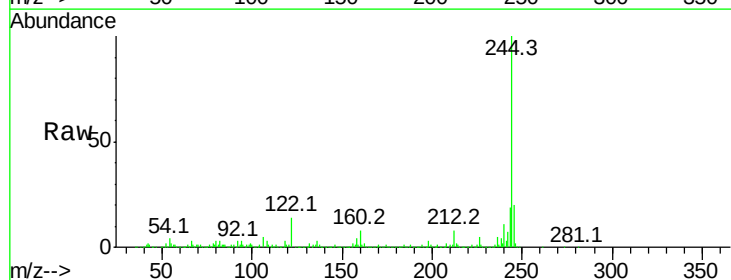
Tgt Ion:244 Resp: 933584

Ion Ratio Lower Upper

244 100

212 7.7 5.4 8.2

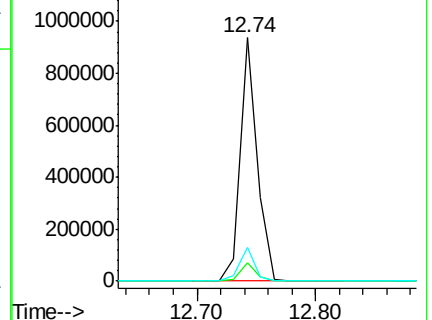
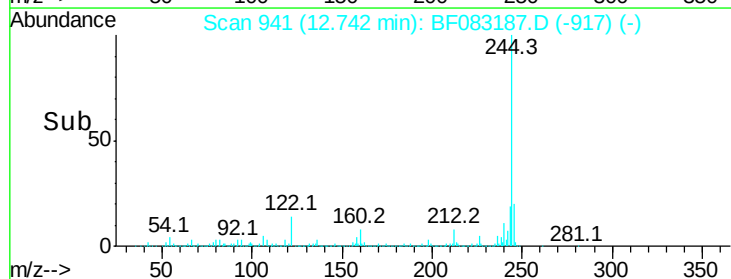
122 13.6 4.3 6.5#

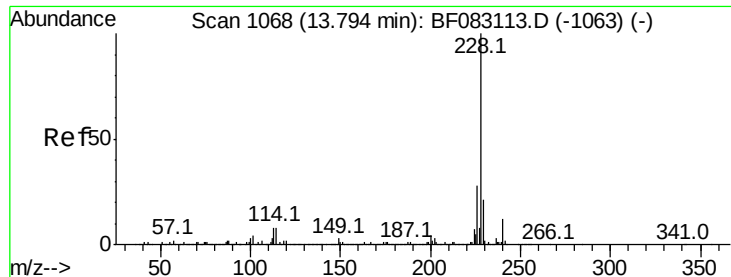


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

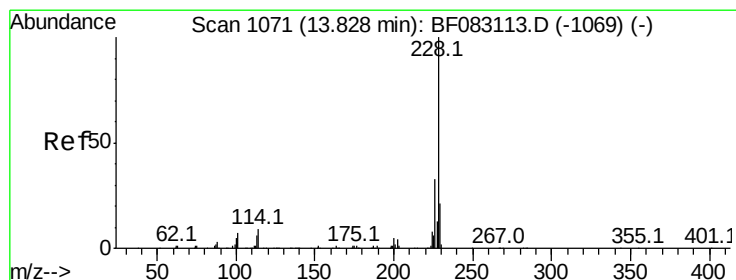
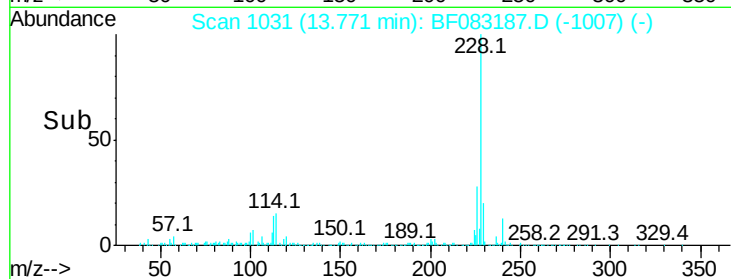
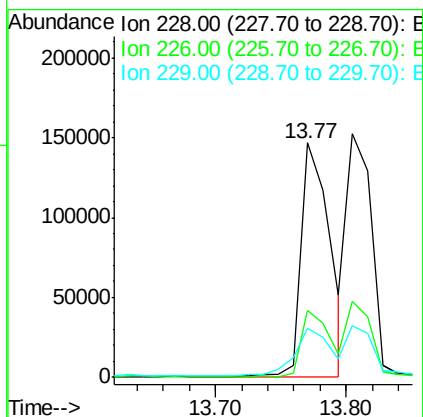
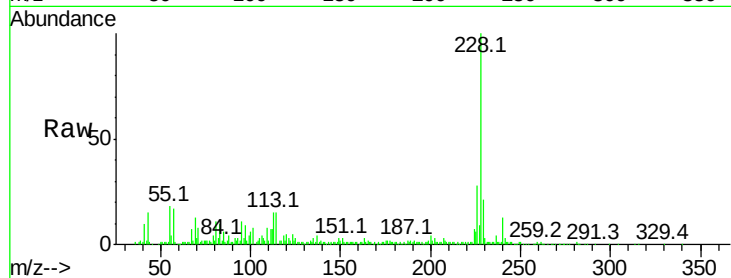




#80  
Benzo(a)anthracene  
Concen: 8.27 ng  
RT: 13.77 min Scan# 1031  
Delta R.T. -0.02 min  
Lab File: BF083187.D  
Acq: 23 Nov 2015 5:01

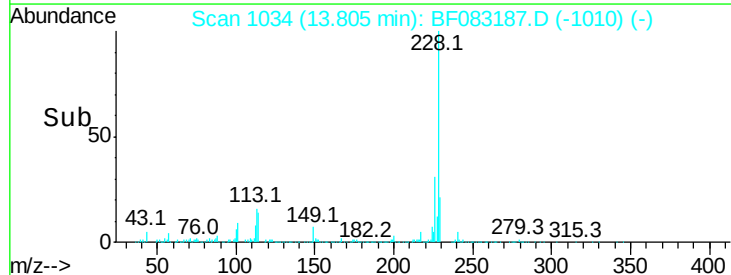
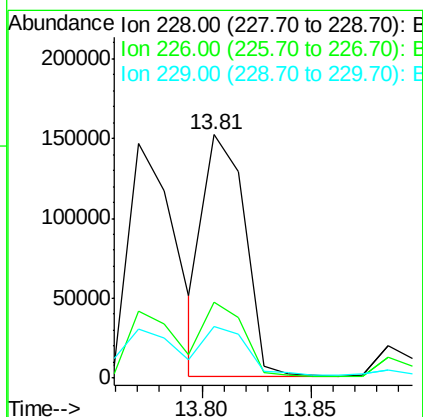
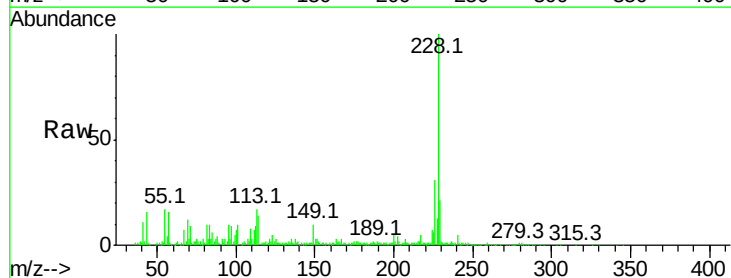
Instrument :  
BNA\_F  
ClientSampleId :  
H5

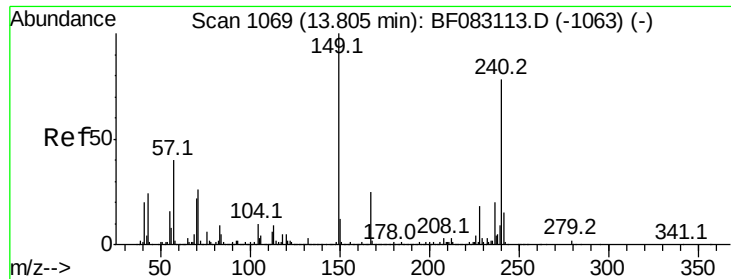
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 22.6  | 33.8  |
| 229     | 20.9  | 16.6  | 24.8  |



#82  
Chrysene  
Concen: 7.96 ng  
RT: 13.81 min Scan# 1034  
Delta R.T. -0.02 min  
Lab File: BF083187.D  
Acq: 23 Nov 2015 5:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.4  | 25.5  | 38.3  |
| 229     | 21.3  | 16.6  | 25.0  |

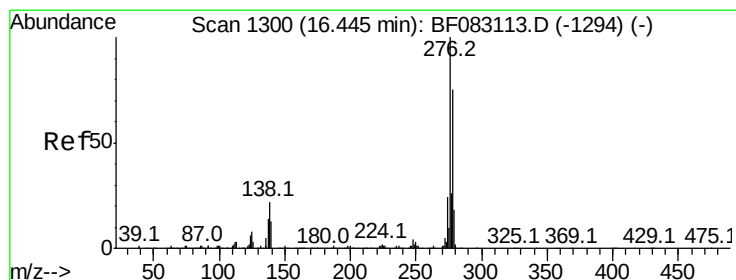
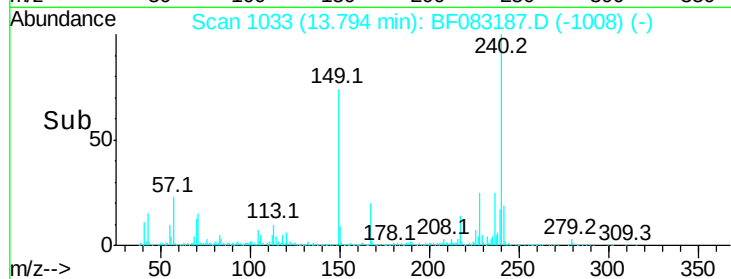
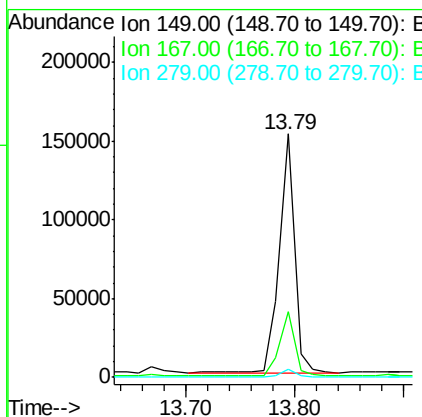
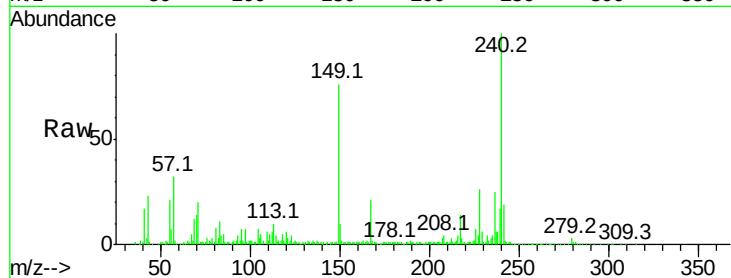




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 7.96 ng  
 RT: 13.79 min Scan# 1033  
 Delta R.T. -0.01 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

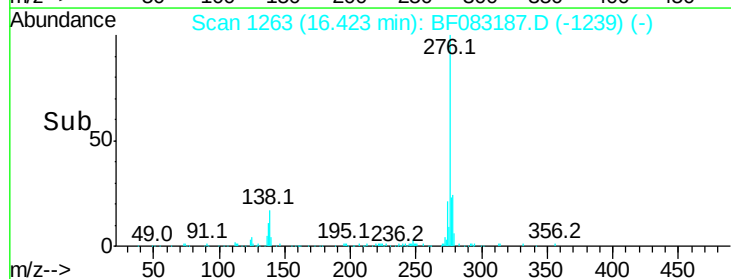
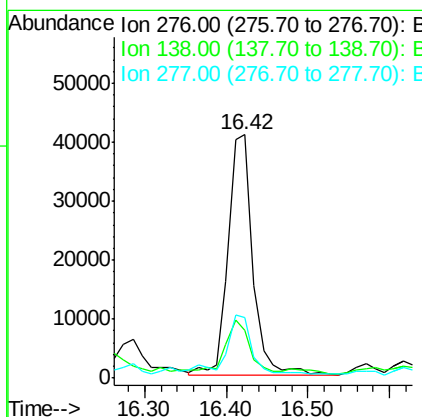
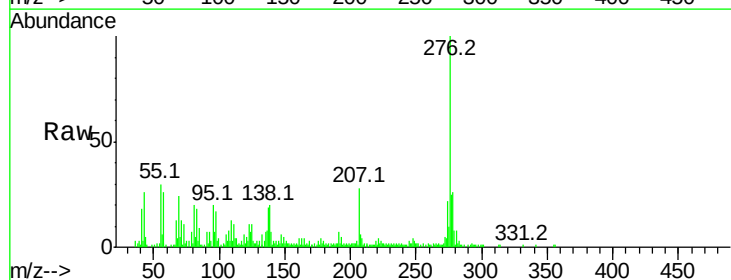
Instrument :  
 BNA\_F  
 ClientSampleId :  
 H5

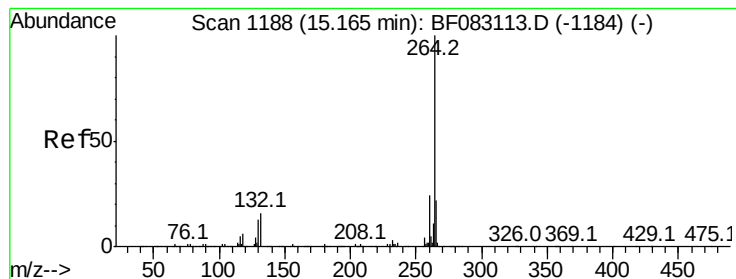
Tot Ion:149 Resp: 146620  
 Ion Ratio Lower Upper  
 149 100  
 167 27.0 20.1 30.1  
 279 3.6 1.7 2.5#



#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.79 ng  
 RT: 16.42 min Scan# 1263  
 Delta R.T. -0.02 min  
 Lab File: BF083187.D  
 Acq: 23 Nov 2015 5:01

Tgt Ion:276 Resp: 86194  
 Ion Ratio Lower Upper  
 276 100  
 138 22.0 18.0 27.0  
 277 26.0 20.2 30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.15 min Scan# 1152

Delta R.T. -0.01 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

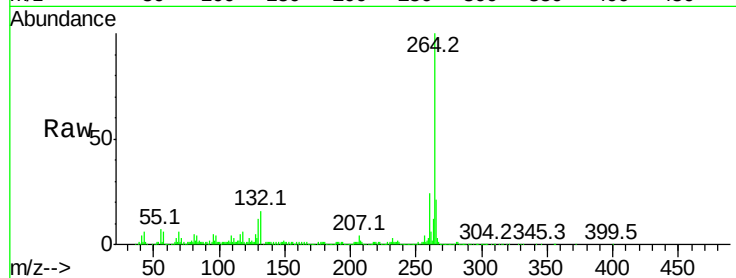
Tot Ion:264 Resp: 349315

Ion Ratio Lower Upper

264 100

260 24.3 19.1 28.7

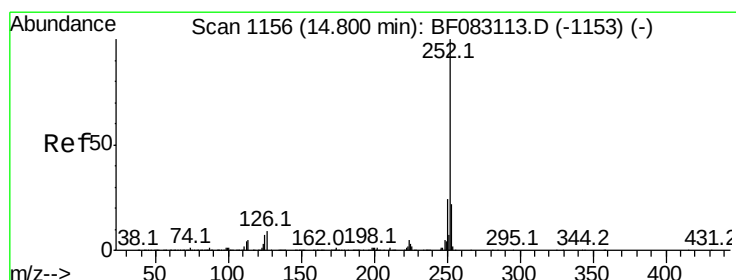
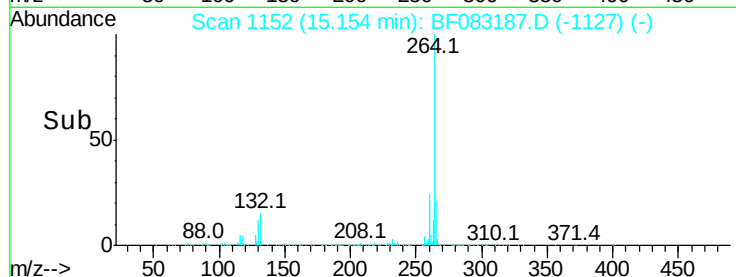
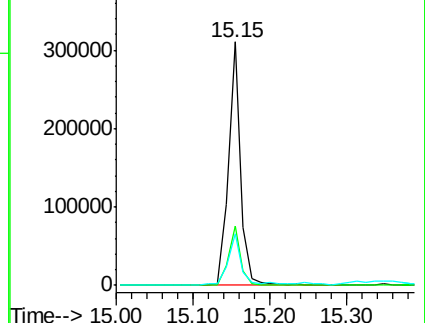
265 21.2 18.2 27.4



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 12.99 ng

RT: 14.78 min Scan# 1119

Delta R.T. -0.02 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

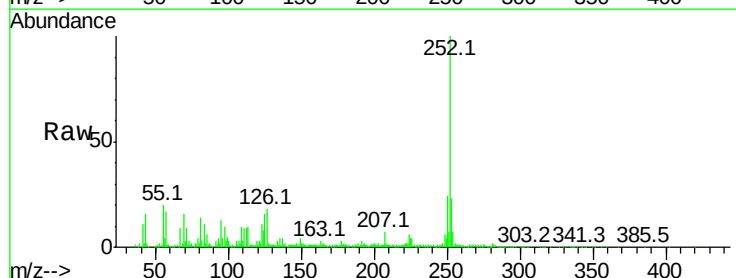
Tgt Ion:252 Resp: 310040

Ion Ratio Lower Upper

252 100

253 22.8 17.7 26.5

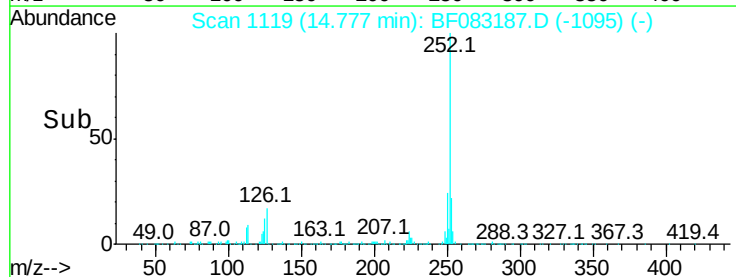
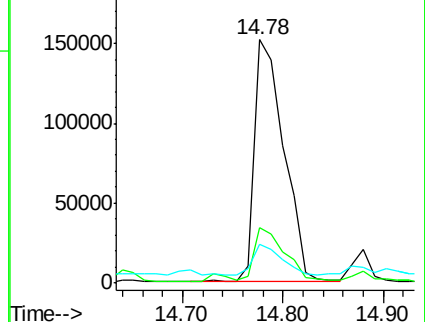
125 15.8 5.6 8.4#

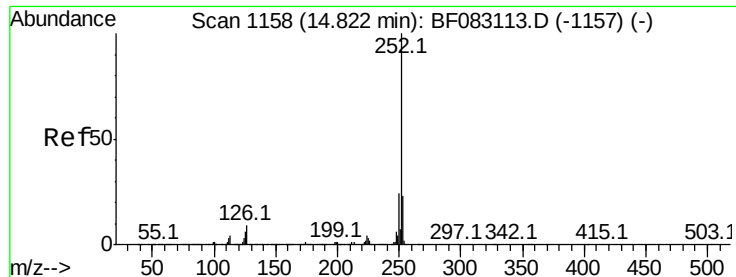


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

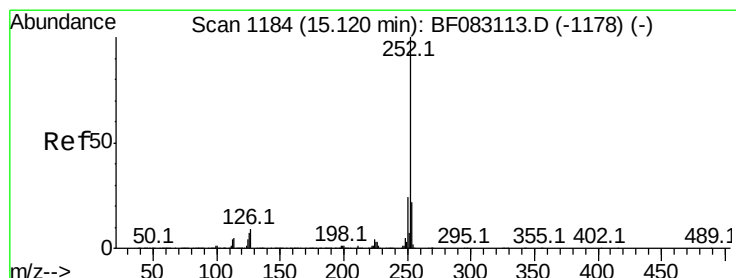
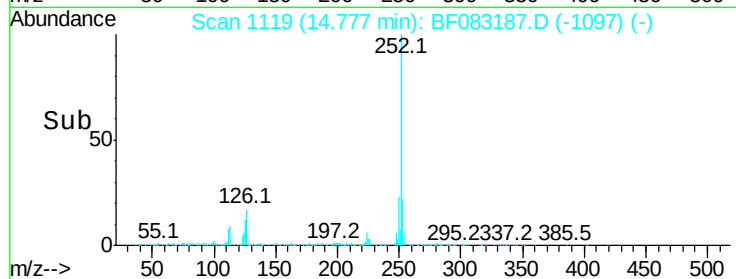
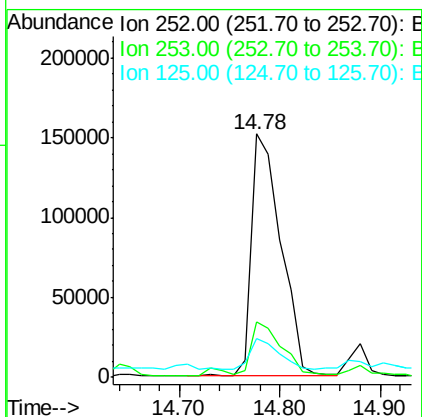
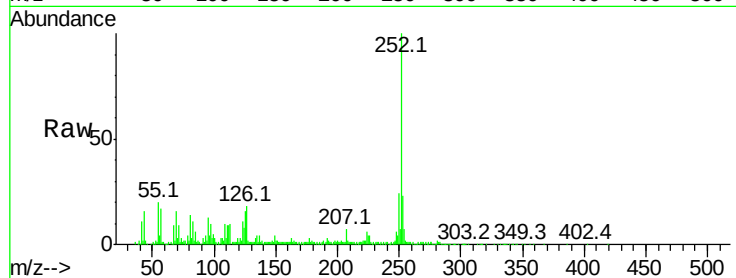




#88  
Benzo(k)fluoranthene  
Concen: 17.43 ng  
RT: 14.78 min Scan# 1119  
Delta R.T. -0.05 min  
Lab File: BF083187.D  
Acq: 23 Nov 2015 5:01

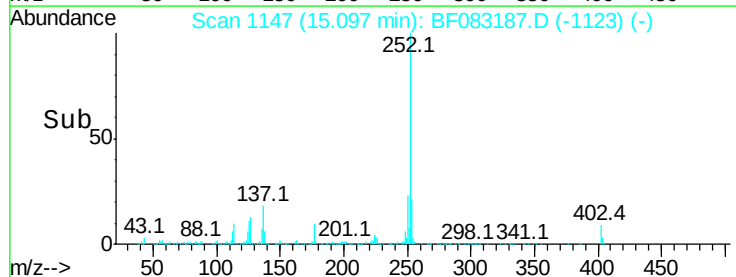
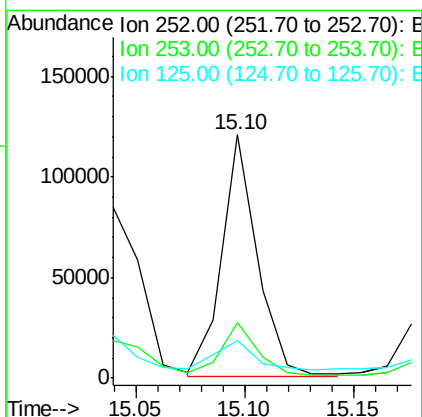
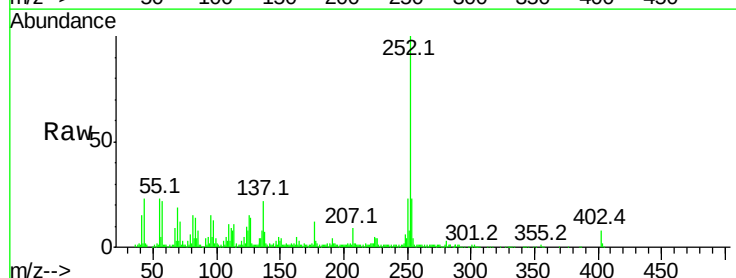
Instrument :  
BNA\_F  
ClientSampleId :  
H5

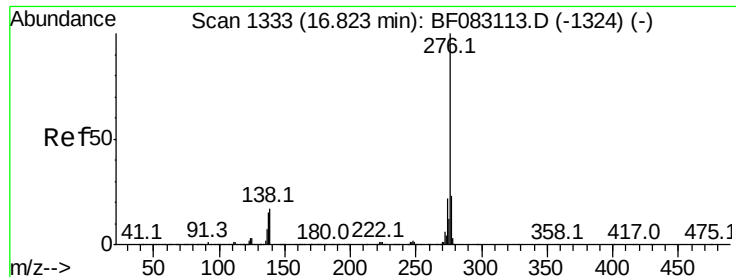
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.2  | 27.2  |
| 125     | 15.8  | 6.8   | 10.2  |



#89  
Benzo(a)pyrene  
Concen: 6.93 ng  
RT: 15.10 min Scan# 1147  
Delta R.T. -0.02 min  
Lab File: BF083187.D  
Acq: 23 Nov 2015 5:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.5  | 26.3  |
| 125     | 15.2  | 5.4   | 8.0   |





#91

Benzo(a,h,i)perylene

Concen: 4.54 ng

RT: 16.79 min Scan# 1295

Delta R.T. -0.03 min

Lab File: BF083187.D

Acq: 23 Nov 2015 5:01

Instrument :

BNA\_F

ClientSampleId :

H5

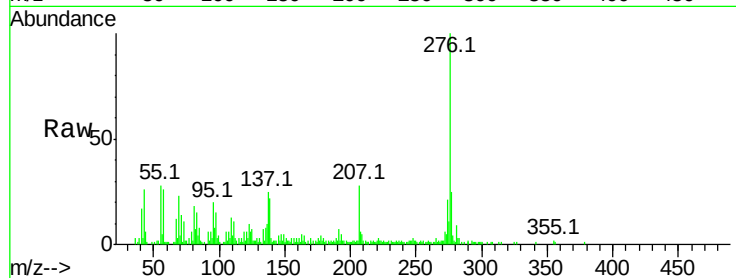
Tot Ion:276 Resp: 79383

Ion Ratio Lower Upper

276 100

277 24.7 18.7 28.1

138 22.0 13.9 20.9#



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

