

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\  
 Data File : BF082307.D  
 Acq On : 15 Oct 2015 14:13  
 Operator : UM/IZ  
 Sample : G4016-01  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-1

Quant Time: Oct 16 01:09:43 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 16 01:04:42 2015  
 Response via : Initial Calibration

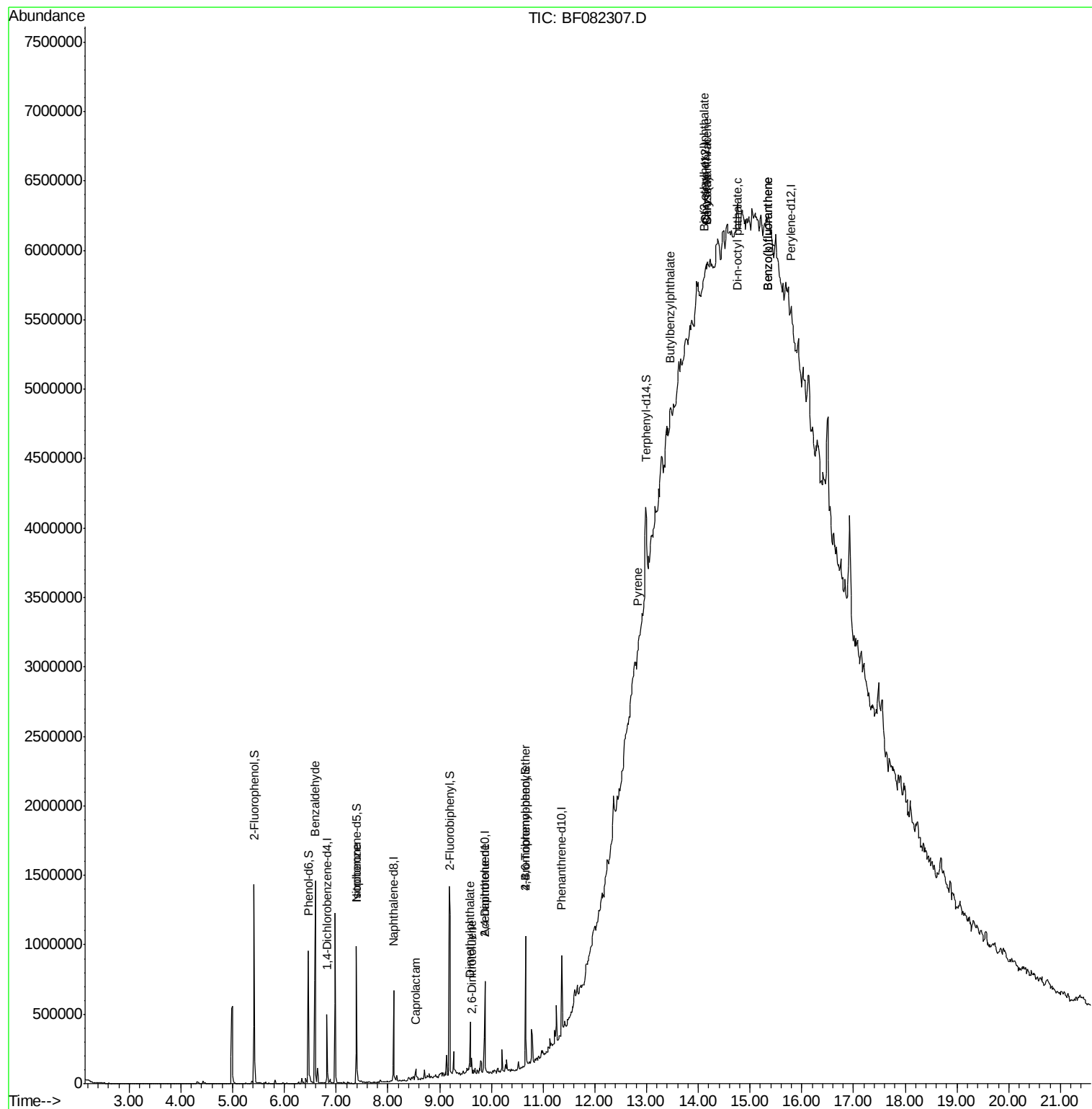
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 77746    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.11  | 136  | 303722   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.87  | 164  | 137863   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.36 | 188  | 223252   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.14 | 240  | 128938   | 20.00     | ng    | 0.05     |
| 86) Perylene-d12               | 15.80 | 264  | 120905   | 20.00     | ng    | 0.14     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 410507   | 106.56    | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 535710   | 106.86    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 340027   | 75.18     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.66 | 330  | 113693   | 87.94     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 666864   | 80.22     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.98 | 244  | 435183   | 89.44     | ng    | 0.01     |
| Target Compounds               |       |      |          |           |       | Qvalue   |
| 9) Benzaldehyde                | 6.59  | 77   | 10356    | 4.05      | ng    | 84       |
| 25) Isophorone                 | 7.39  | 82   | 276074   | 30.24     | ng    | # 66     |
| 35) Caprolactam                | 8.54  | 113  | 3509     | 3.07      | ng    | # 27     |
| 49) Dimethylphthalate          | 9.59  | 163  | 76499    | 7.88      | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.62  | 165  | 15796    | 7.71      | ng    | # 32     |
| 55) 4-Nitrophenol              | 9.99  | 139  | 567      | Below Cal |       | # 1      |
| 56) 2,4-Dinitrotoluene         | 9.87  | 165  | 20911    | 8.17      | ng    | # 24     |
| 66) 4-Bromophenyl-phenylether  | 10.66 | 248  | 7599     | 3.40      | ng    | # 1      |
| 77) Pyrene                     | 12.84 | 202  | 23607    | 3.09      | ng    | # 48     |
| 79) Butylbenzylphthalate       | 13.46 | 149  | 10258    | 2.94      | ng    | # 71     |
| 80) Benzo(a)anthracene         | 14.16 | 228  | 17997    | 2.68      | ng    | # 8      |
| 82) Chrysene                   | 14.16 | 228  | 17997    | 2.55      | ng    | # 14     |
| 83) Bis(2-ethylhexyl)phthalate | 14.12 | 149  | 47236    | 9.48      | ng    | # 64     |
| 84) Di-n-octyl phthalate       | 14.76 | 149  | 38238    | 4.47      | ng    | # 78     |
| 87) Benzo(b)fluoranthene       | 15.35 | 252  | 21574    | 2.93      | ng    | # 1      |
| 88) Benzo(k)fluoranthene       | 15.35 | 252  | 21574    | 3.49      | ng    | # 1      |

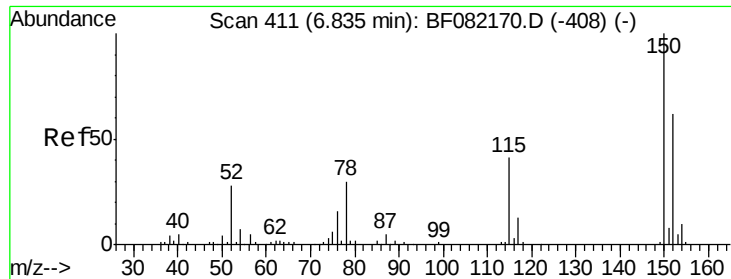
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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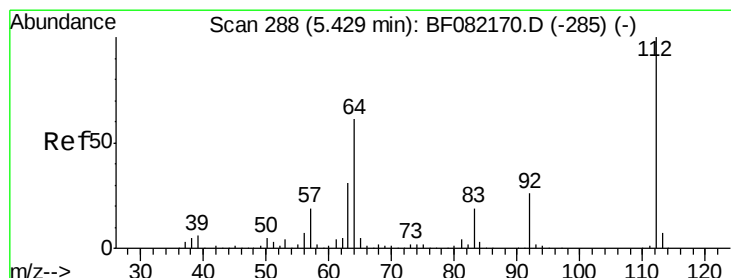
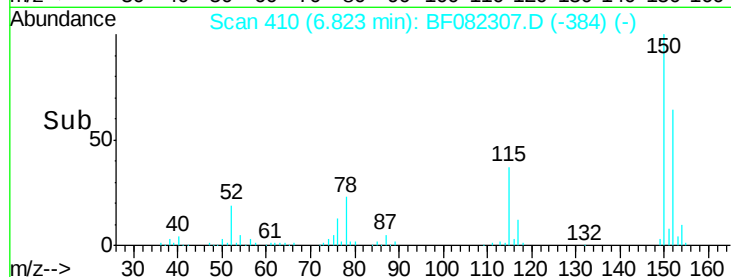
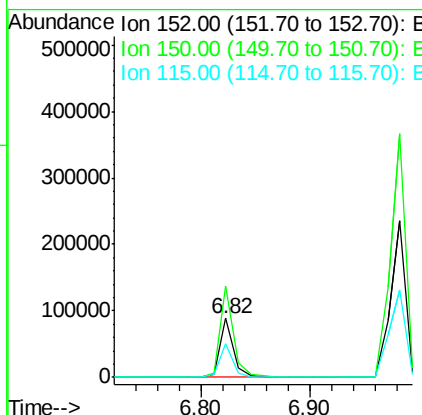
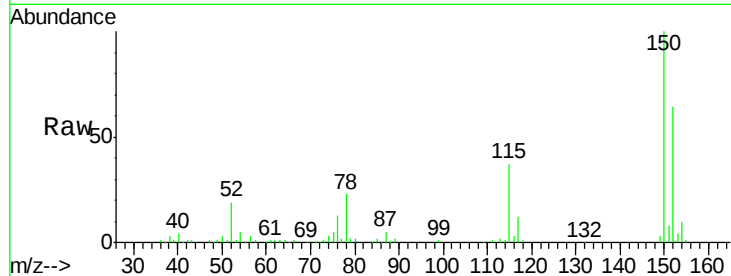




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.82 min Scan# 410  
 Delta R.T. 0.00 min  
 Lab File: BF082307.D  
 Acq: 15 Oct 2015 14:13

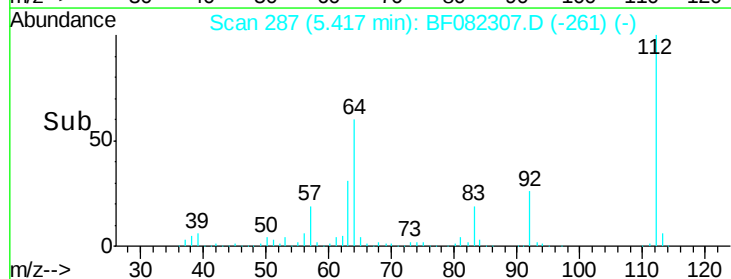
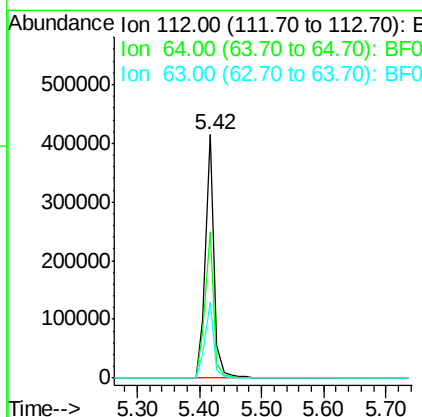
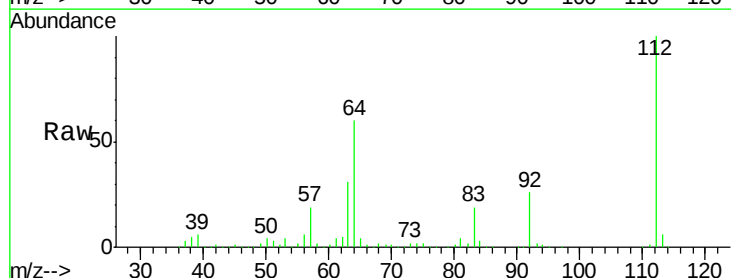
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-1

Tot Ion:152 Resp: 77746  
 Ion Ratio Lower Upper  
 152 100  
 150 156.4 129.0 193.4  
 115 58.1 52.1 78.1



#5  
 2-Fluorophenol  
 Concen: 106.56 ng  
 RT: 5.42 min Scan# 287  
 Delta R.T. 0.00 min  
 Lab File: BF082307.D  
 Acq: 15 Oct 2015 14:13

Tgt Ion:112 Resp: 410507  
 Ion Ratio Lower Upper  
 112 100  
 64 59.9 48.6 73.0  
 63 31.3 25.1 37.7





#7

Phenol-d6

Concen: 106.86 ng

RT: 6.47 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

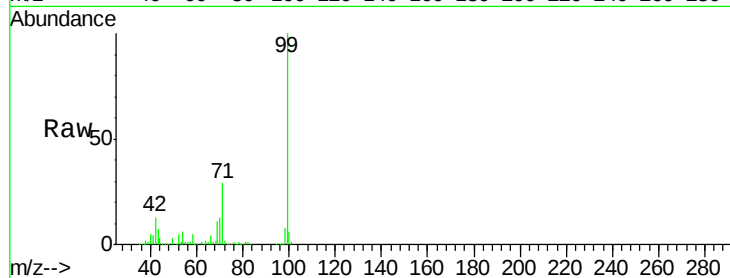
Tot Ion: 99 Resp: 535710

Ion Ratio Lower Upper

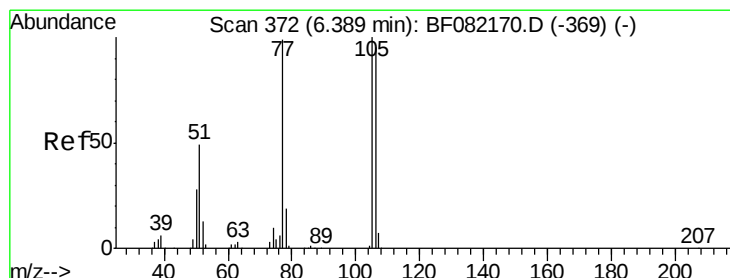
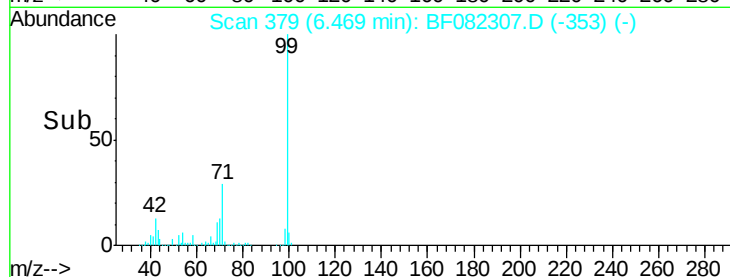
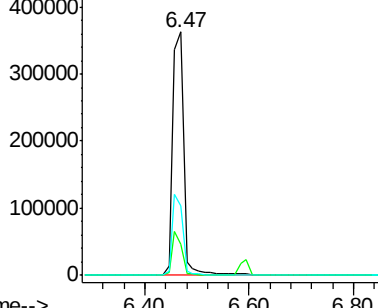
99 100

42 12.7 13.2 19.8#

71 28.7 25.6 38.4



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 4.05 ng

RT: 6.59 min Scan# 390

Delta R.T. 0.22 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

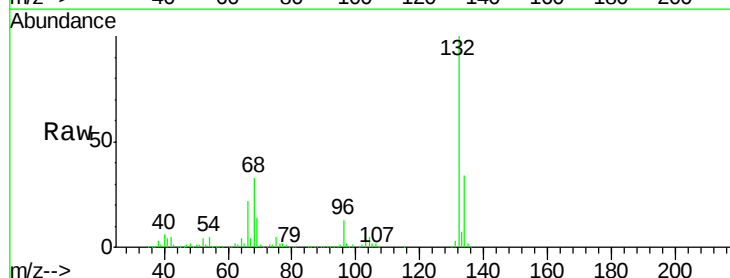
Tgt Ion: 77 Resp: 10356

Ion Ratio Lower Upper

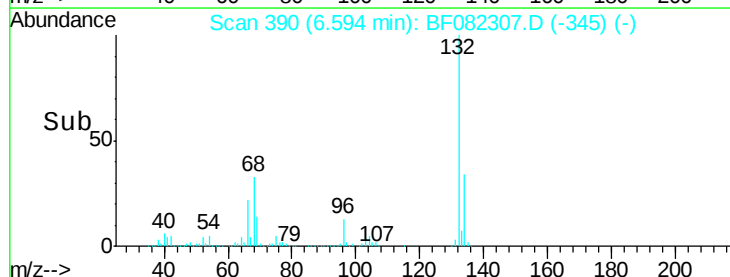
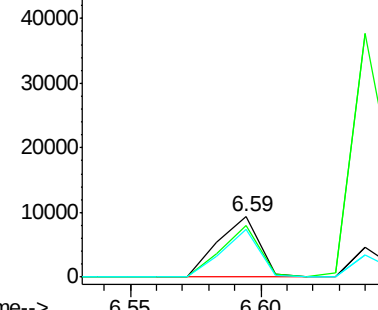
77 100

105 85.5 80.6 120.6

106 78.6 75.5 115.5



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): BF0  
Ion 106.00 (105.70 to 106.70): BF0

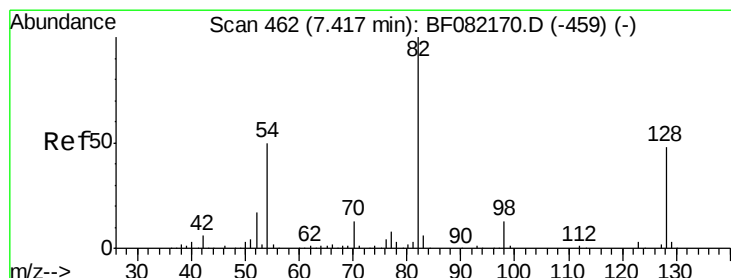
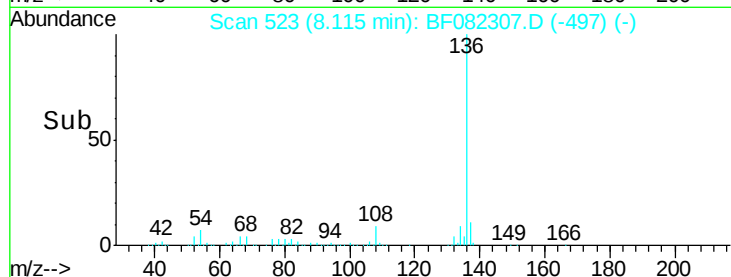
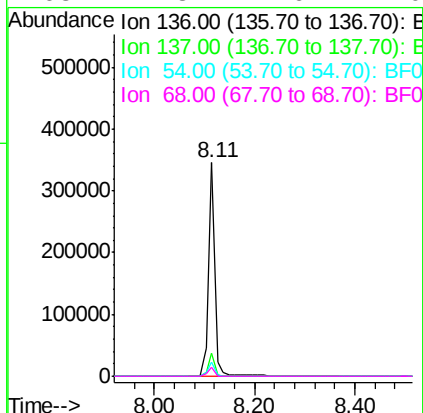
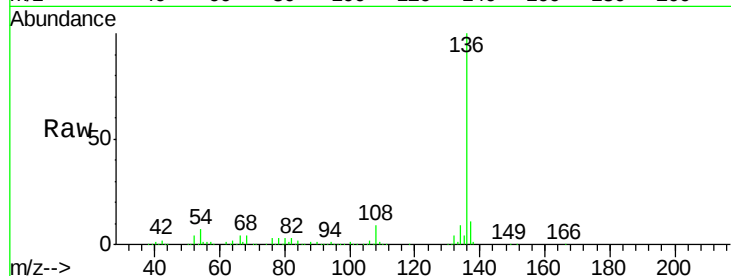




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.11 min Scan# 523  
Delta R.T. 0.00 min  
Lab File: BF082307.D  
Acq: 15 Oct 2015 14:13

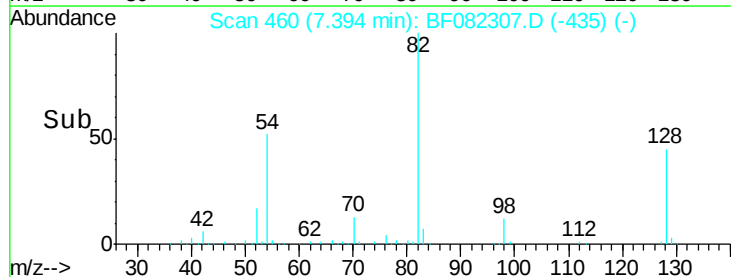
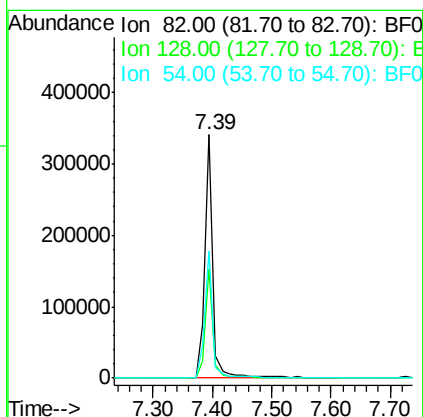
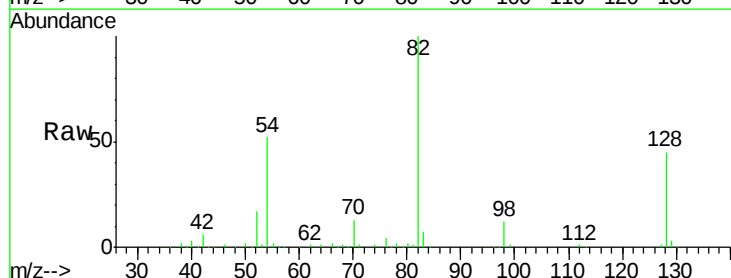
Instrument :  
BNA\_F  
ClientSampleId :  
CS-1

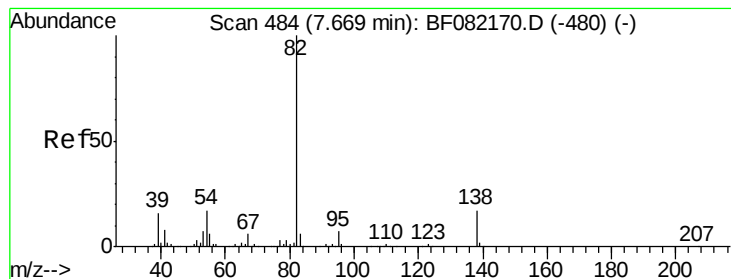
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 303722      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.9  | 9.0 13.6    |
| 54          | 6.7   | 7.5 11.3#   |
| 68          | 4.3   | 4.6 7.0#    |



#23  
Nitrobenzene-d5  
Concen: 75.18 ng  
RT: 7.39 min Scan# 460  
Delta R.T. -0.01 min  
Lab File: BF082307.D  
Acq: 15 Oct 2015 14:13

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 340027      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 44.9  | 38.7 58.1   |
| 54          | 52.1  | 40.1 60.1   |





#25

Isophorone

Concen: 30.24 ng

RT: 7.39 min Scan# 460

Delta R.T. -0.26 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

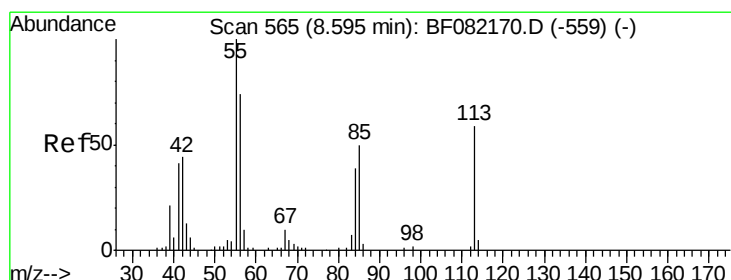
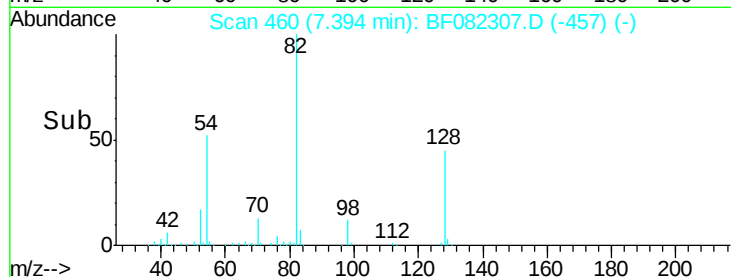
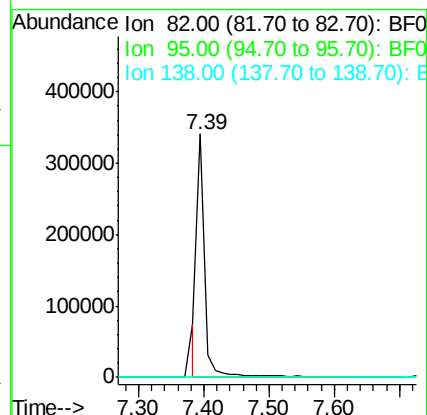
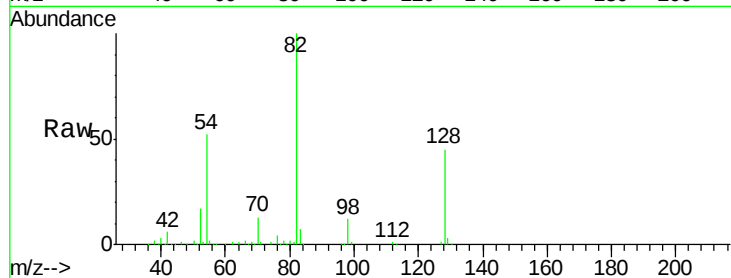
Tot Ion: 82 Resp: 276074

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

138 0.0 13.6 20.4#



#35

Caprolactam

Concen: 3.07 ng

RT: 8.54 min Scan# 560

Delta R.T. -0.05 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

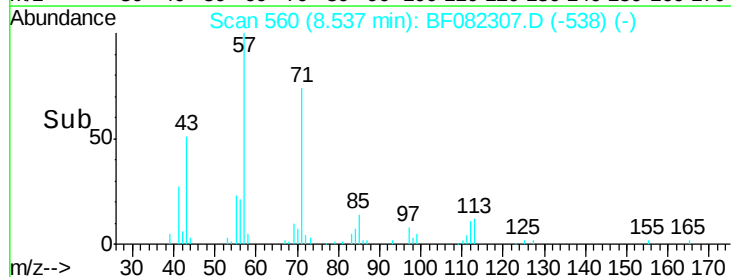
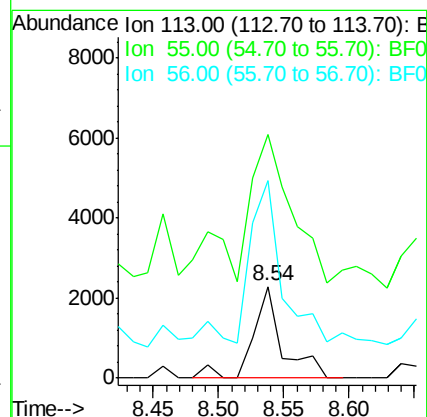
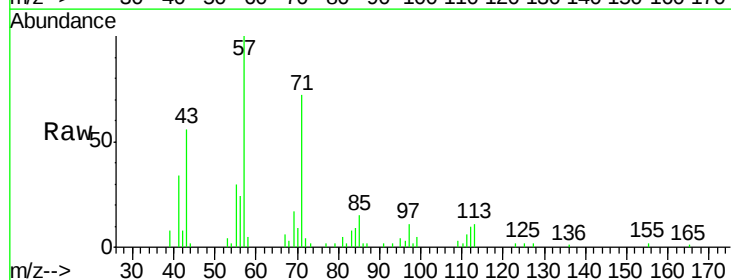
Tgt Ion: 113 Resp: 3509

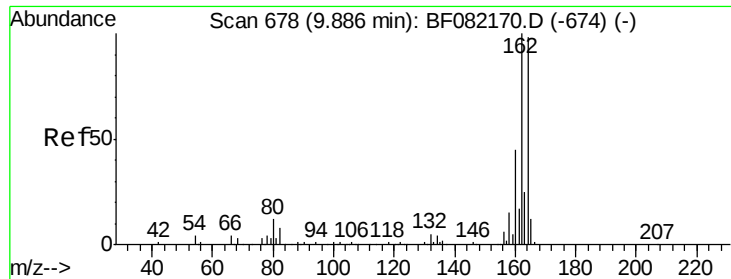
Ion Ratio Lower Upper

113 100

55 264.9 149.7 189.7#

56 214.9 105.4 145.4#

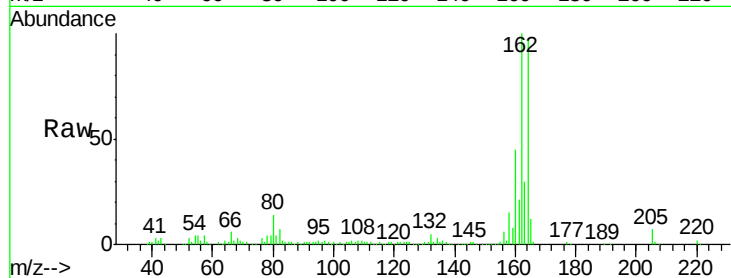




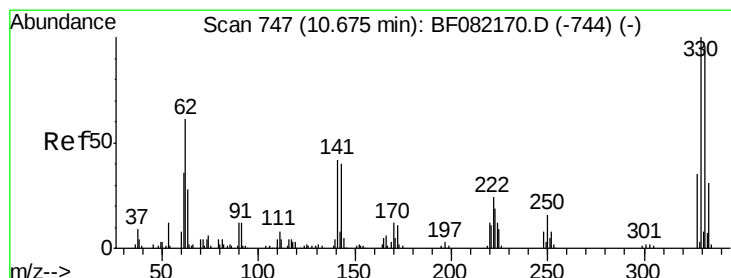
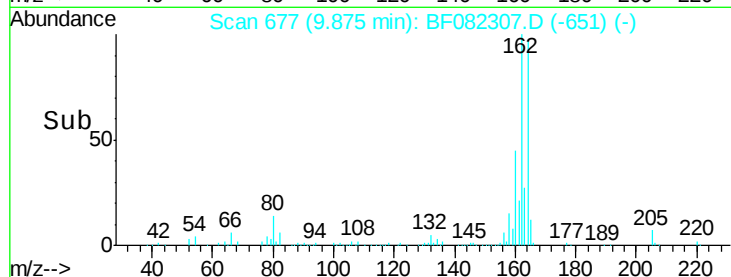
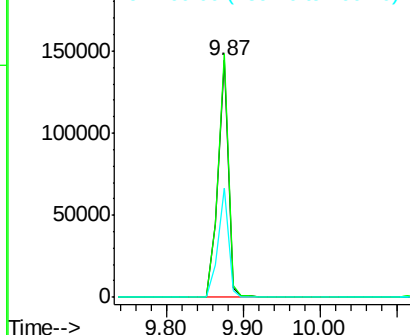
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.87 min Scan# 677  
 Delta R.T. 0.00 min  
 Lab File: BF082307.D  
 Acq: 15 Oct 2015 14:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.7 | 81.6  | 122.4 |
| 160     | 46.1  | 36.4  | 54.6  |

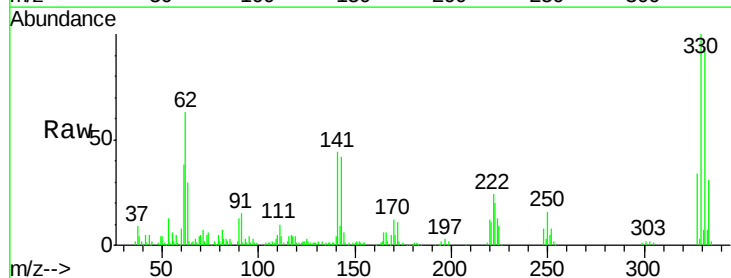


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

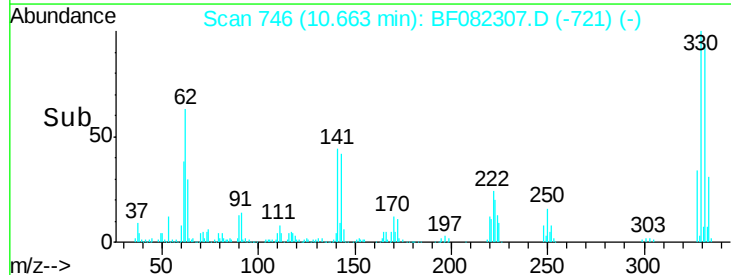
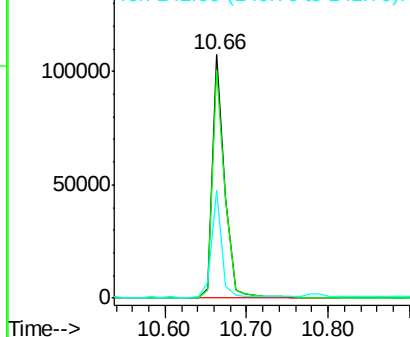


#41  
 2,4,6-Tribromophenol  
 Concen: 87.94 ng  
 RT: 10.66 min Scan# 746  
 Delta R.T. -0.01 min  
 Lab File: BF082307.D  
 Acq: 15 Oct 2015 14:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 77.1  | 115.7 |
| 141     | 37.5  | 29.8  | 44.8  |



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

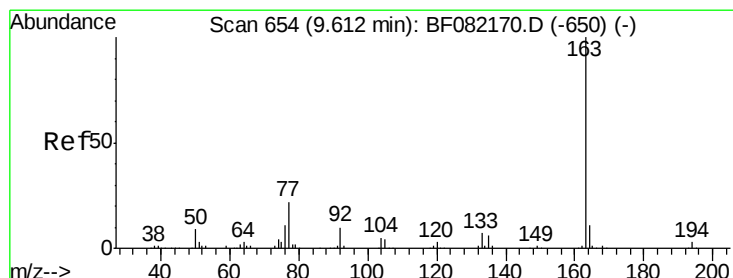
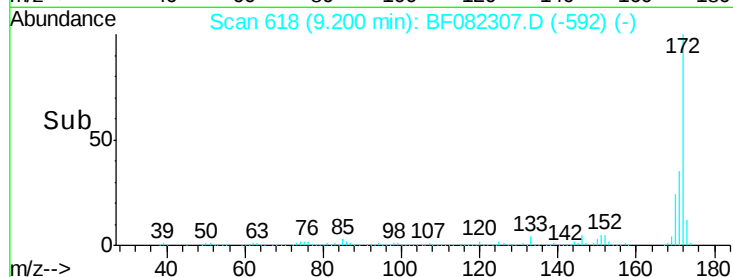
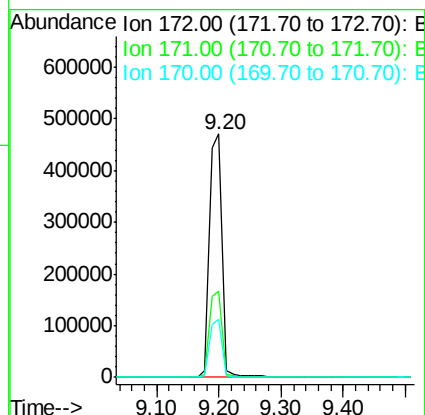
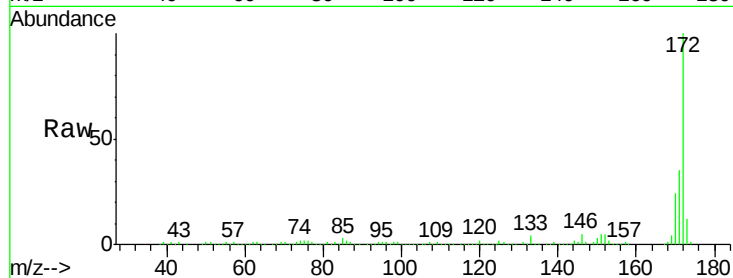




#44  
2-Fluorobiphenyl  
Concen: 80.22 ng  
RT: 9.20 min Scan# 618  
Delta R.T. 0.00 min  
Lab File: BF082307.D  
Acq: 15 Oct 2015 14:13

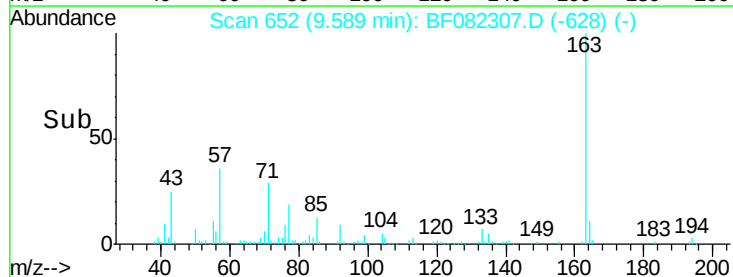
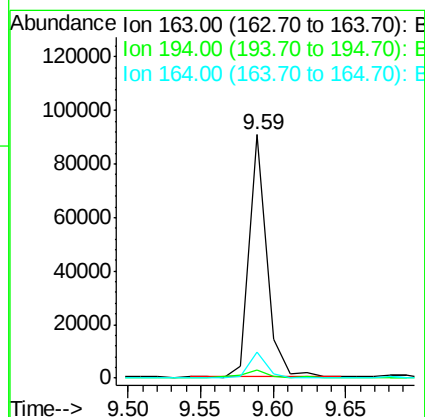
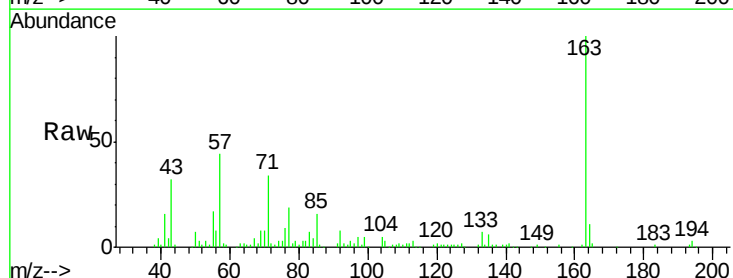
Instrument :  
BNA\_F  
ClientSampleId :  
CS-1

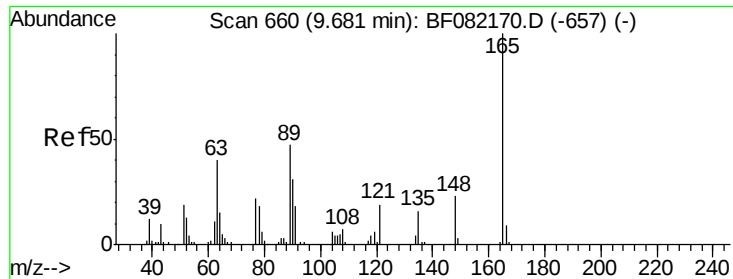
Tot Ion:172 Resp: 666864  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.6 42.8  
170 24.0 19.7 29.5



#49  
Dimethylphthalate  
Concen: 7.88 ng  
RT: 9.59 min Scan# 652  
Delta R.T. -0.02 min  
Lab File: BF082307.D  
Acq: 15 Oct 2015 14:13

Tgt Ion:163 Resp: 76499  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.6 4.0  
164 10.7 8.5 12.7

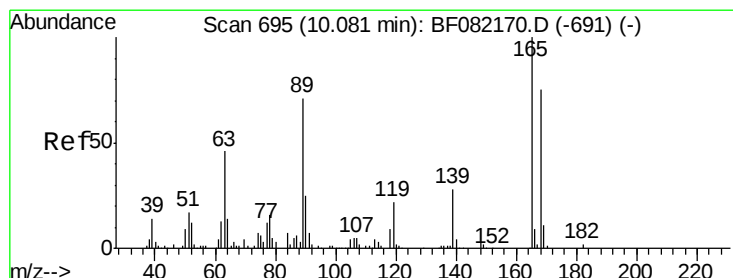
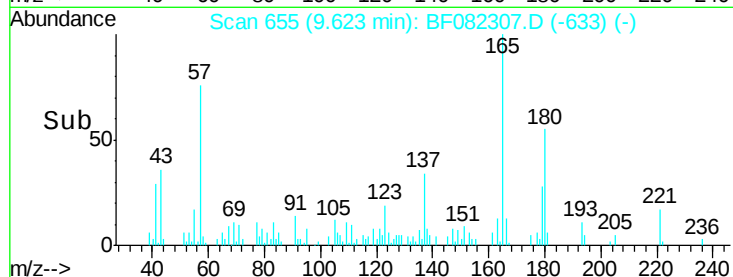
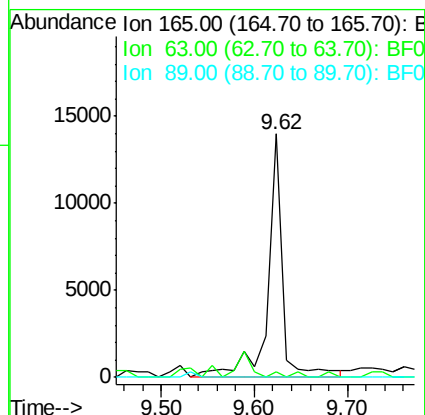
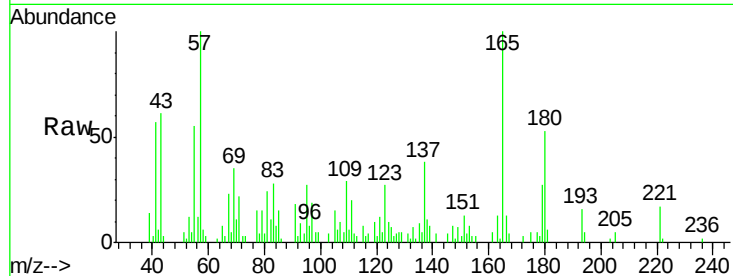




#50  
 2,6-Dinitrotoluene  
 Concen: 7.71 ng  
 RT: 9.62 min Scan# 655  
 Delta R.T. -0.05 min  
 Lab File: BF082307.D  
 Acq: 15 Oct 2015 14:13

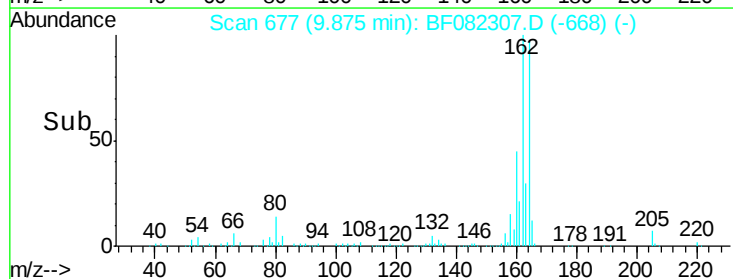
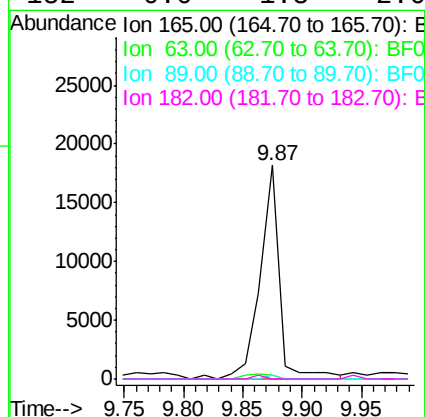
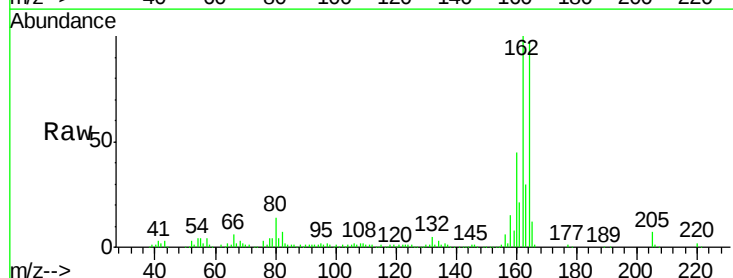
Instrument :  
 BNA\_F  
 ClientSampled :  
 CS-1

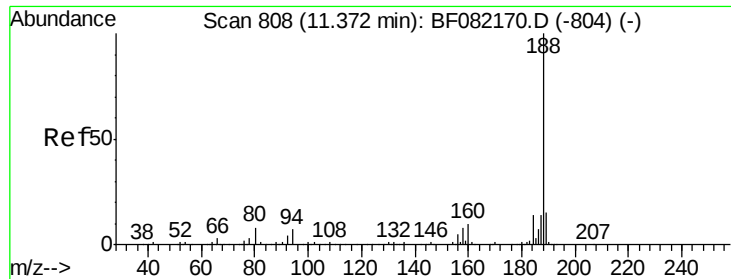
Tot Ion:165 Resp: 15796  
 Ion Ratio Lower Upper  
 165 100  
 63 2.5 36.7 55.1#  
 89 0.0 37.8 56.6#



#56  
 2,4-Dinitrotoluene  
 Concen: 8.17 ng  
 RT: 9.87 min Scan# 677  
 Delta R.T. -0.19 min  
 Lab File: BF082307.D  
 Acq: 15 Oct 2015 14:13

Tgt Ion:165 Resp: 20911  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 38.6 58.0#  
 89 2.0 57.0 85.6#  
 182 0.0 1.8 2.6#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 807

Delta R.T. 0.00 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

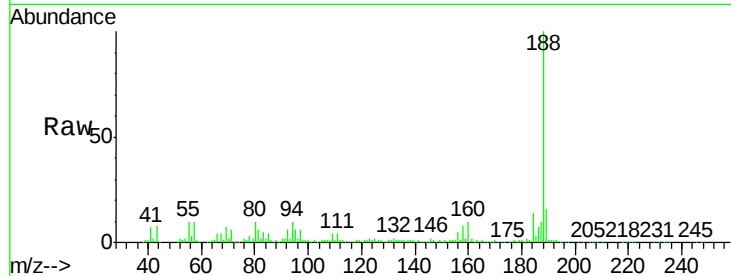
Tot Ion:188 Resp: 223252

Ion Ratio Lower Upper

188 100

94 9.7 5.8 8.6#

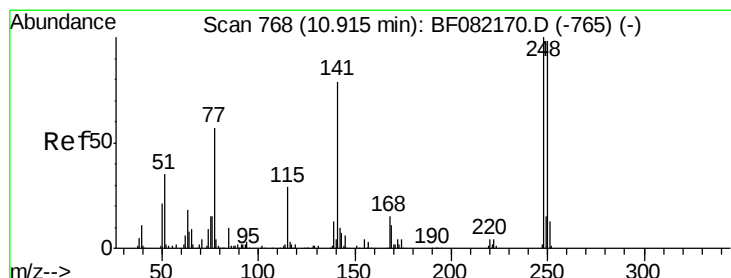
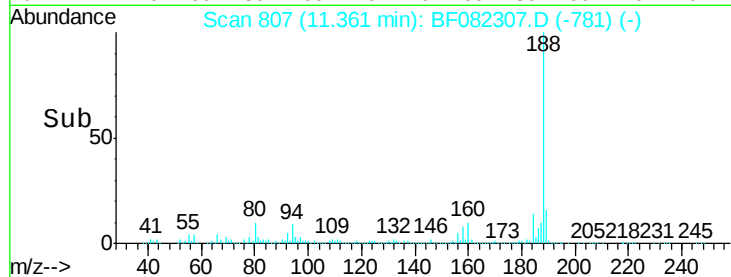
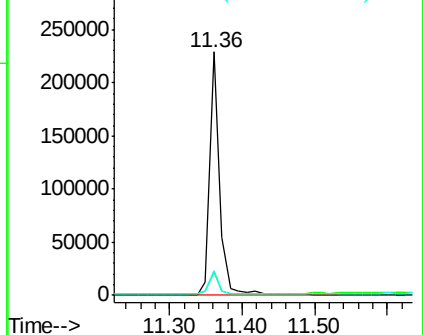
80 10.3 6.4 9.6#



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: 3.40 ng

RT: 10.66 min Scan# 746

Delta R.T. -0.25 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

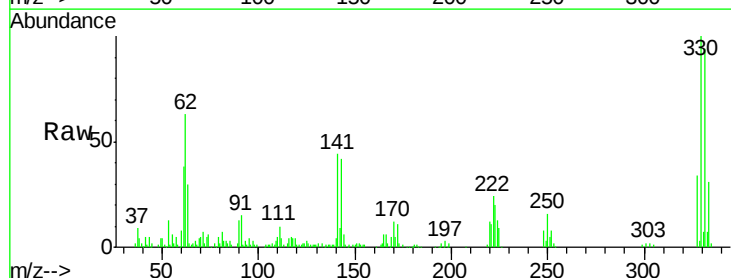
Tgt Ion:248 Resp: 7599

Ion Ratio Lower Upper

248 100

250 199.6 78.6 117.8#

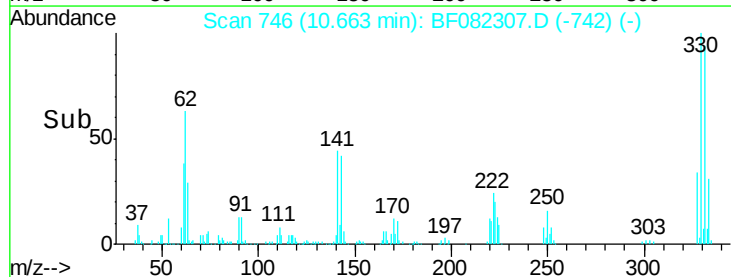
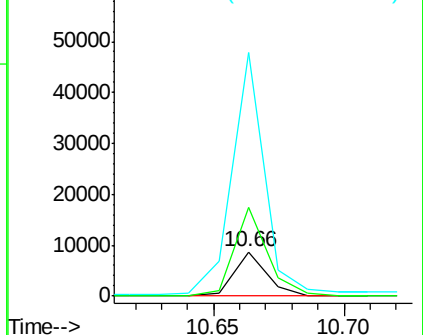
141 548.8 63.3 94.9#

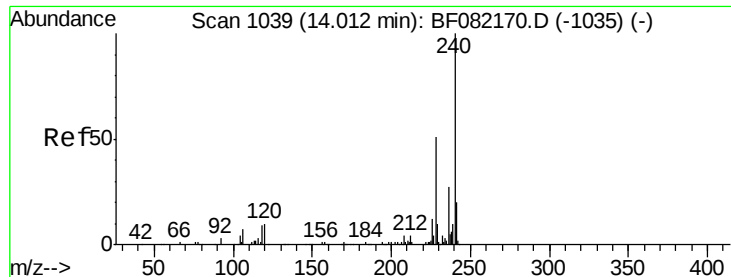


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.14 min Scan# 1050

Delta R.T. 0.05 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

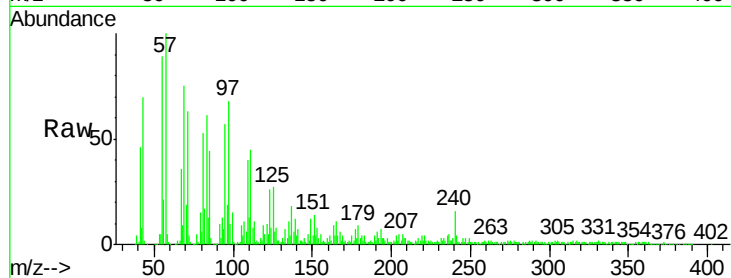
Tot Ion:240 Resp: 128938

Ion Ratio Lower Upper

240 100

120 29.2 8.1 12.1#

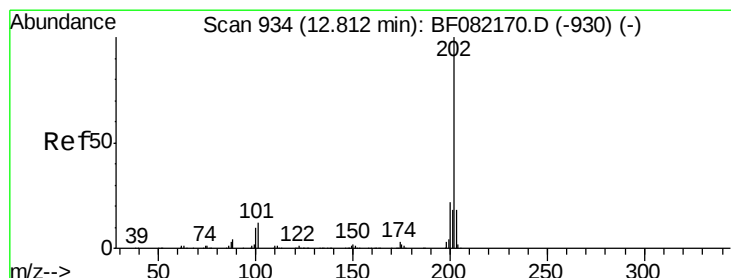
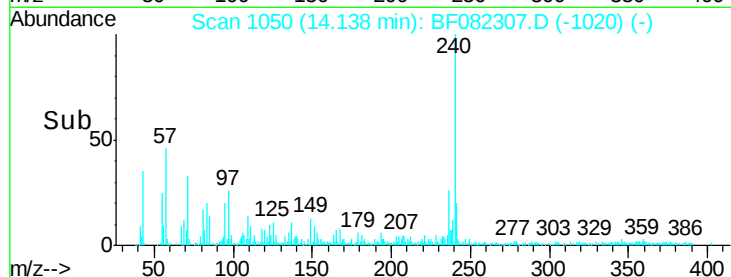
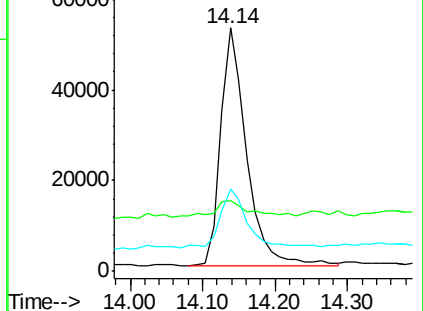
236 34.0 21.3 31.9#



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: 3.09 ng

RT: 12.84 min Scan# 936

Delta R.T. 0.02 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

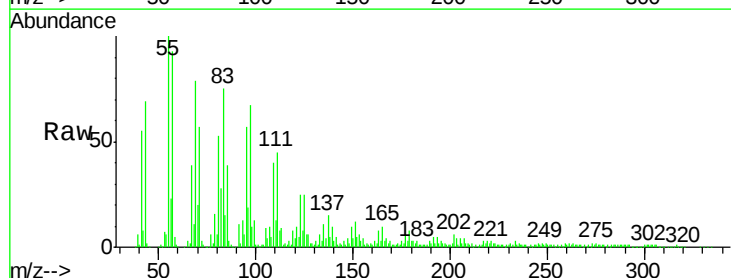
Tgt Ion:202 Resp: 23607

Ion Ratio Lower Upper

202 100

200 24.3 17.9 26.9

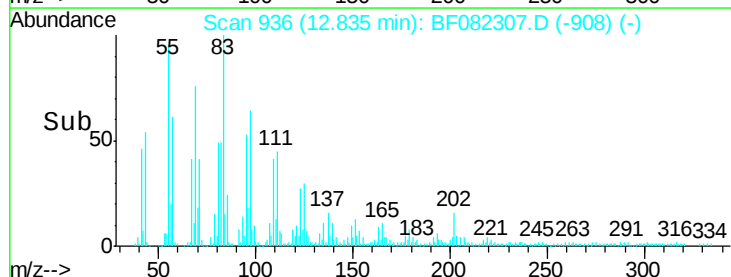
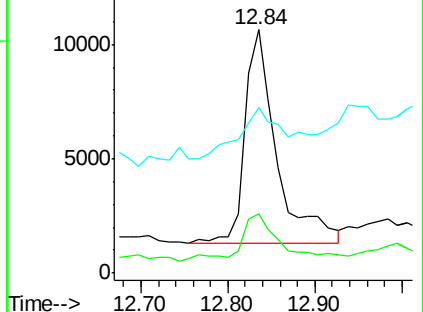
203 67.9 14.5 21.7#

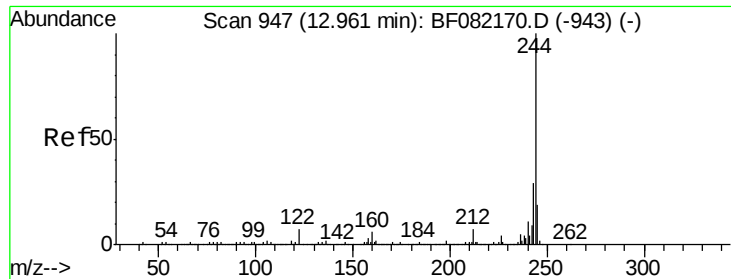


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 89.44 ng

RT: 12.98 min Scan# 949

Delta R.T. 0.01 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

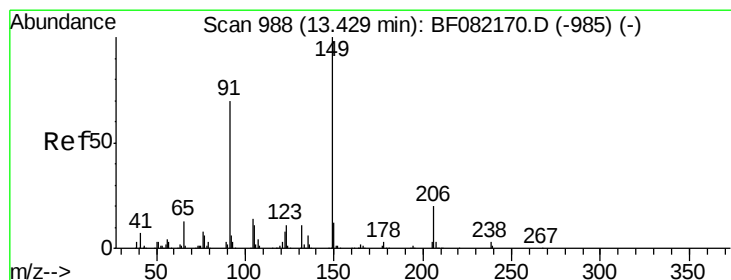
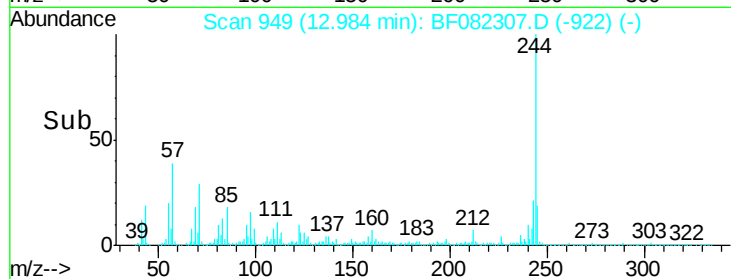
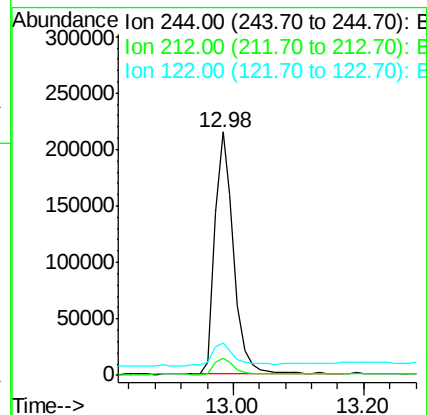
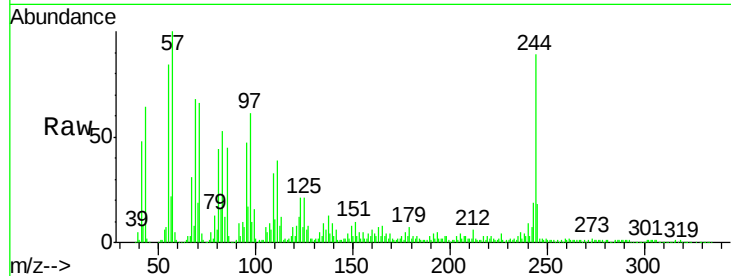
Tot Ion:244 Resp: 435183

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.6

122 13.1 5.9 8.9#



#79

Butylbenzylphthalate

Concen: 2.94 ng

RT: 13.46 min Scan# 991

Delta R.T. 0.00 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

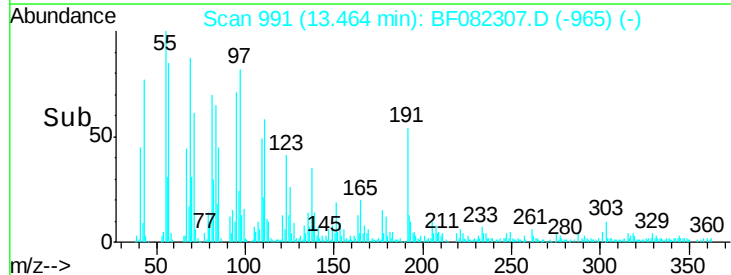
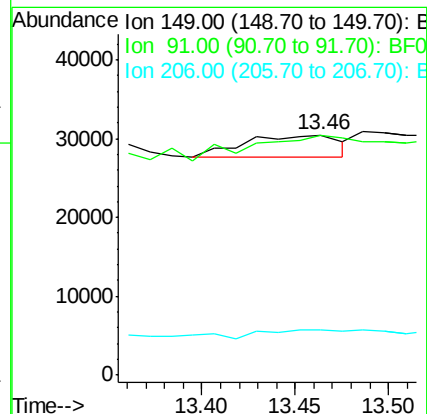
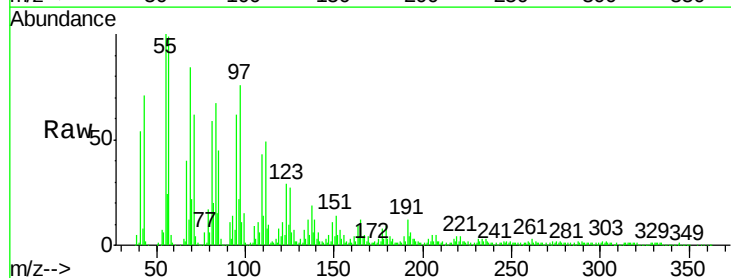
Tgt Ion:149 Resp: 10258

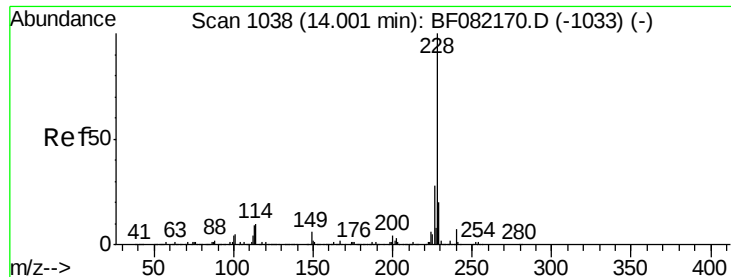
Ion Ratio Lower Upper

149 100

91 99.6 55.7 83.5#

206 18.7 15.6 23.4





#80

Benzo(a)anthracene

Concen: 2.68 ng

RT: 14.16 min Scan# 1052

Delta R.T. 0.09 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

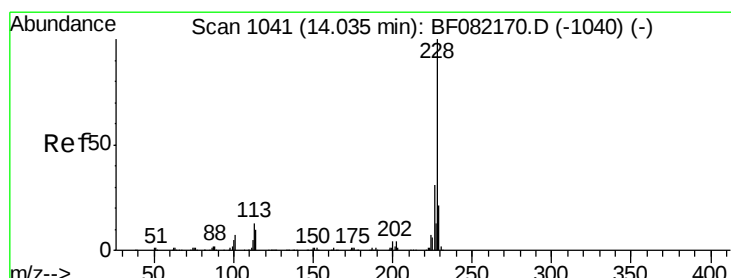
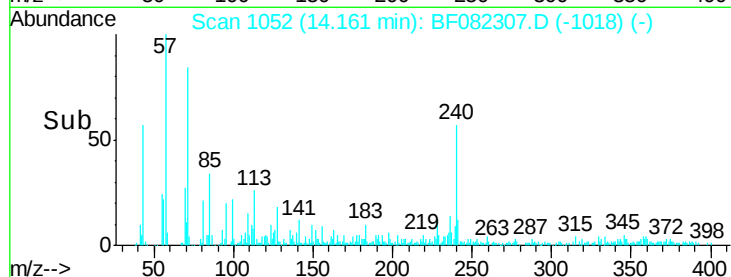
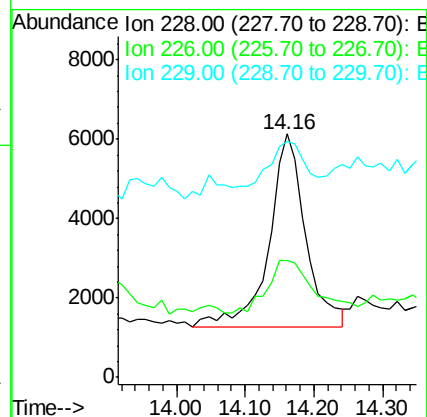
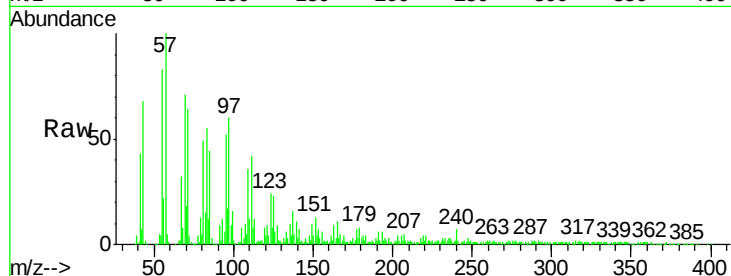
Tot Ion:228 Resp: 17997

Ion Ratio Lower Upper

228 100

226 48.2 22.3 33.5#

229 96.8 16.2 24.2#



#82

Chrysene

Concen: 2.55 ng

RT: 14.16 min Scan# 1052

Delta R.T. 0.05 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

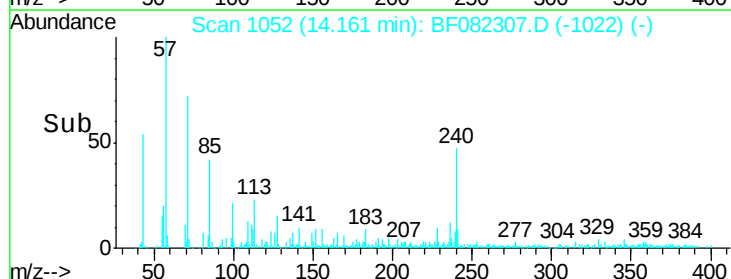
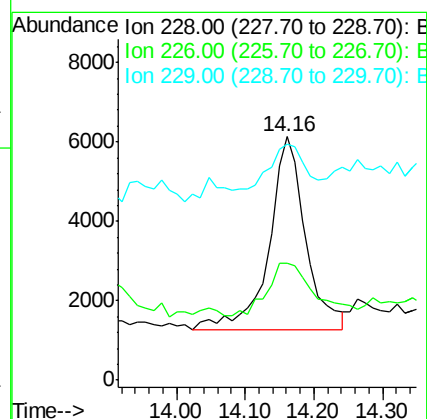
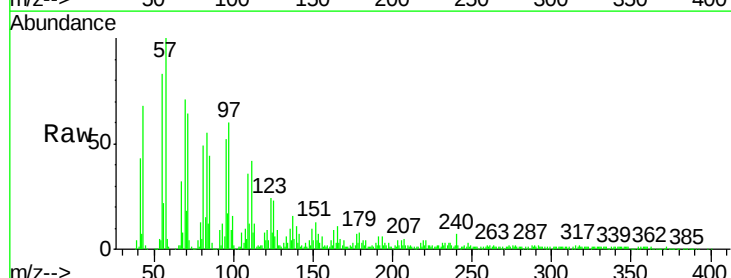
Tgt Ion:228 Resp: 17997

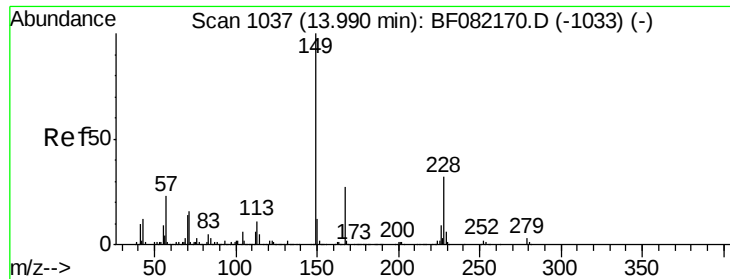
Ion Ratio Lower Upper

228 100

226 48.2 24.4 36.6#

229 96.8 16.3 24.5#





#83

Bis(2-ethylhexyl)phthalate

Concen: 9.48 ng

RT: 14.12 min Scan# 1048

Delta R.T. 0.05 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

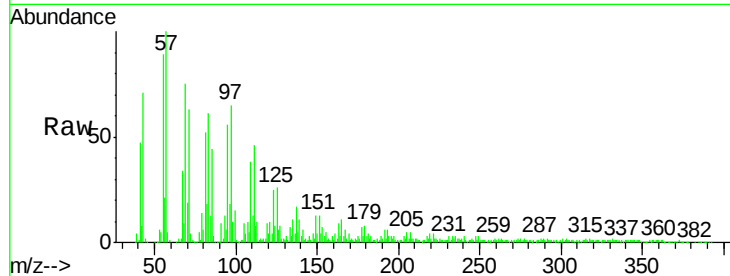
Tot Ion:149 Resp: 47236

Ion Ratio Lower Upper

149 100

167 47.0 21.3 31.9#

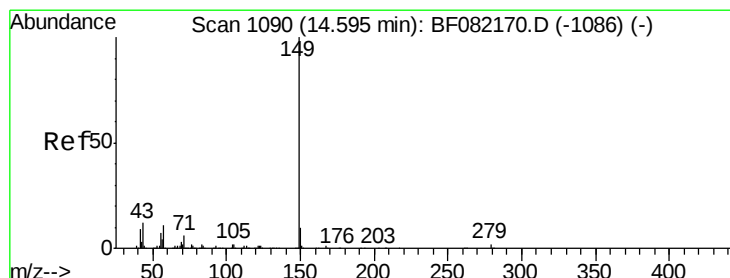
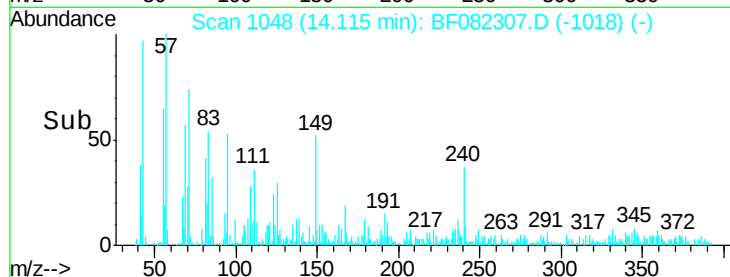
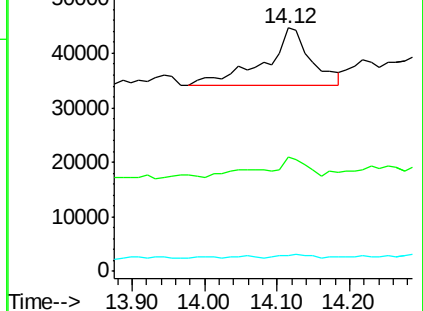
279 6.7 2.6 4.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 4.47 ng

RT: 14.76 min Scan# 1104

Delta R.T. -0.01 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

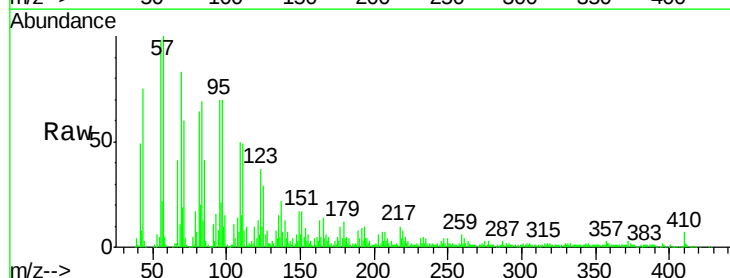
Tgt Ion:149 Resp: 38238

Ion Ratio Lower Upper

149 100

167 0.0 1.3 1.9#

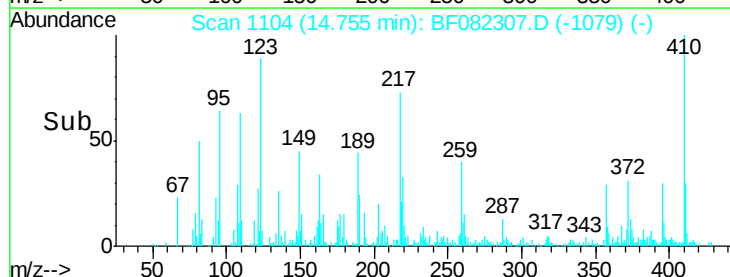
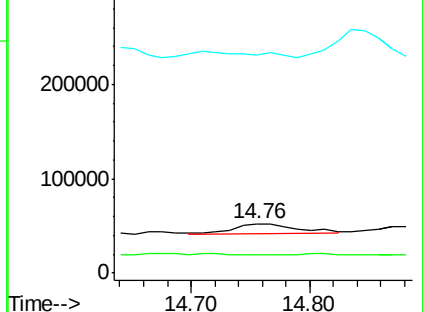
43 0.0 7.4 11.2#

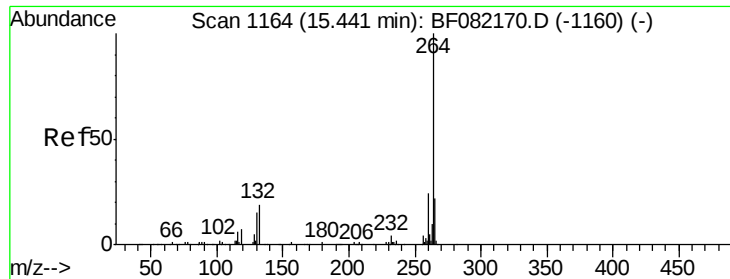


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.80 min Scan# 1195

Delta R.T. 0.14 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

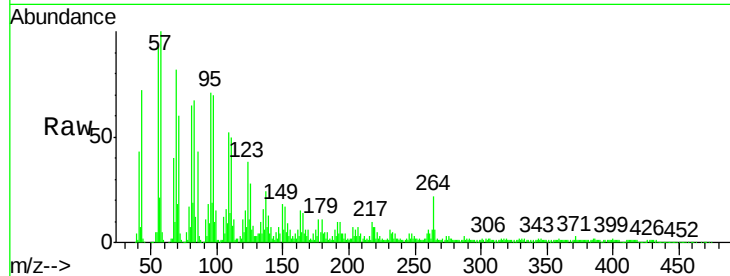
Tot Ion:264 Resp: 120905

Ion Ratio Lower Upper

264 100

260 28.3 19.0 28.6

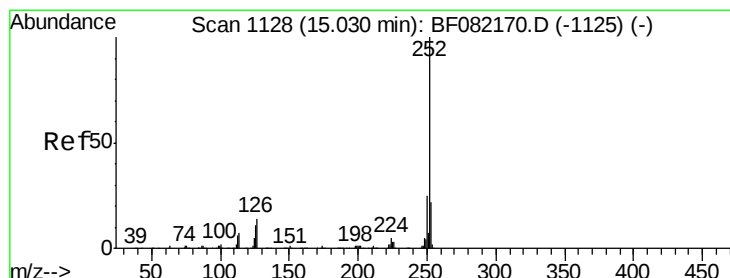
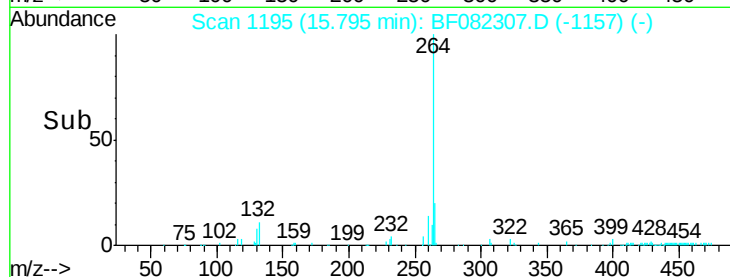
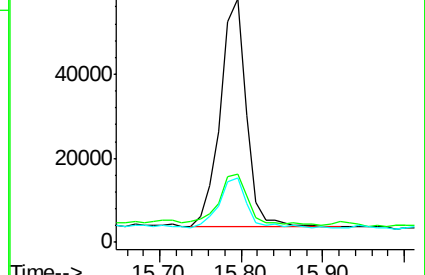
265 26.3 17.3 25.9#



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: 2.93 ng

RT: 15.35 min Scan# 1156

Delta R.T. 0.11 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

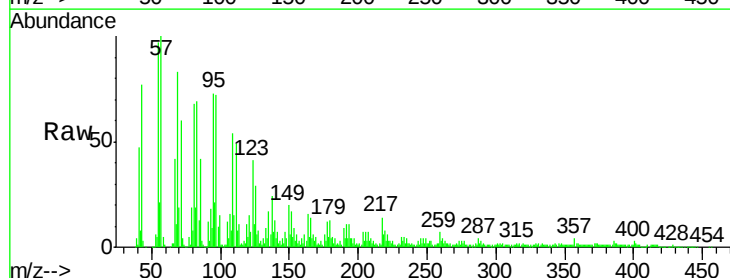
Tgt Ion:252 Resp: 21574

Ion Ratio Lower Upper

252 100

253 83.5 18.0 27.0#

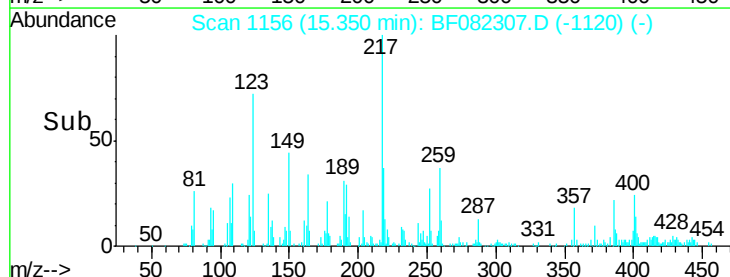
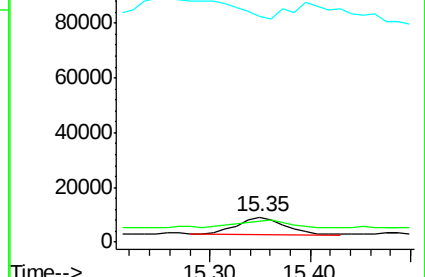
125 892.4 8.6 12.8#

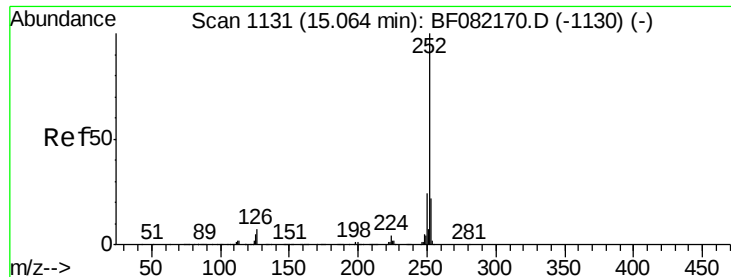


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 3.49 ng

RT: 15.35 min Scan# 1156

Delta R.T. 0.09 min

Lab File: BF082307.D

Acq: 15 Oct 2015 14:13

Instrument :

BNA\_F

ClientSampleId :

CS-1

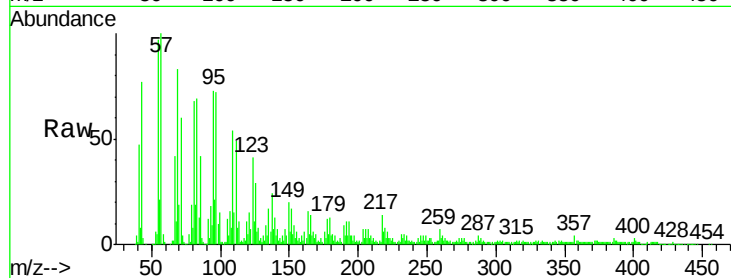
Tot Ion:252 Resp: 21574

Ion Ratio Lower Upper

252 100

253 83.5 17.8 26.6#

125 892.4 6.7 10.1#



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

