

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031116\  
 Data File : BF085374.D  
 Acq On : 11 Mar 2016 16:10  
 Operator : UM/SJ  
 Sample : H1731-08  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-21-COMP

Quant Time: Mar 11 21:58:12 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

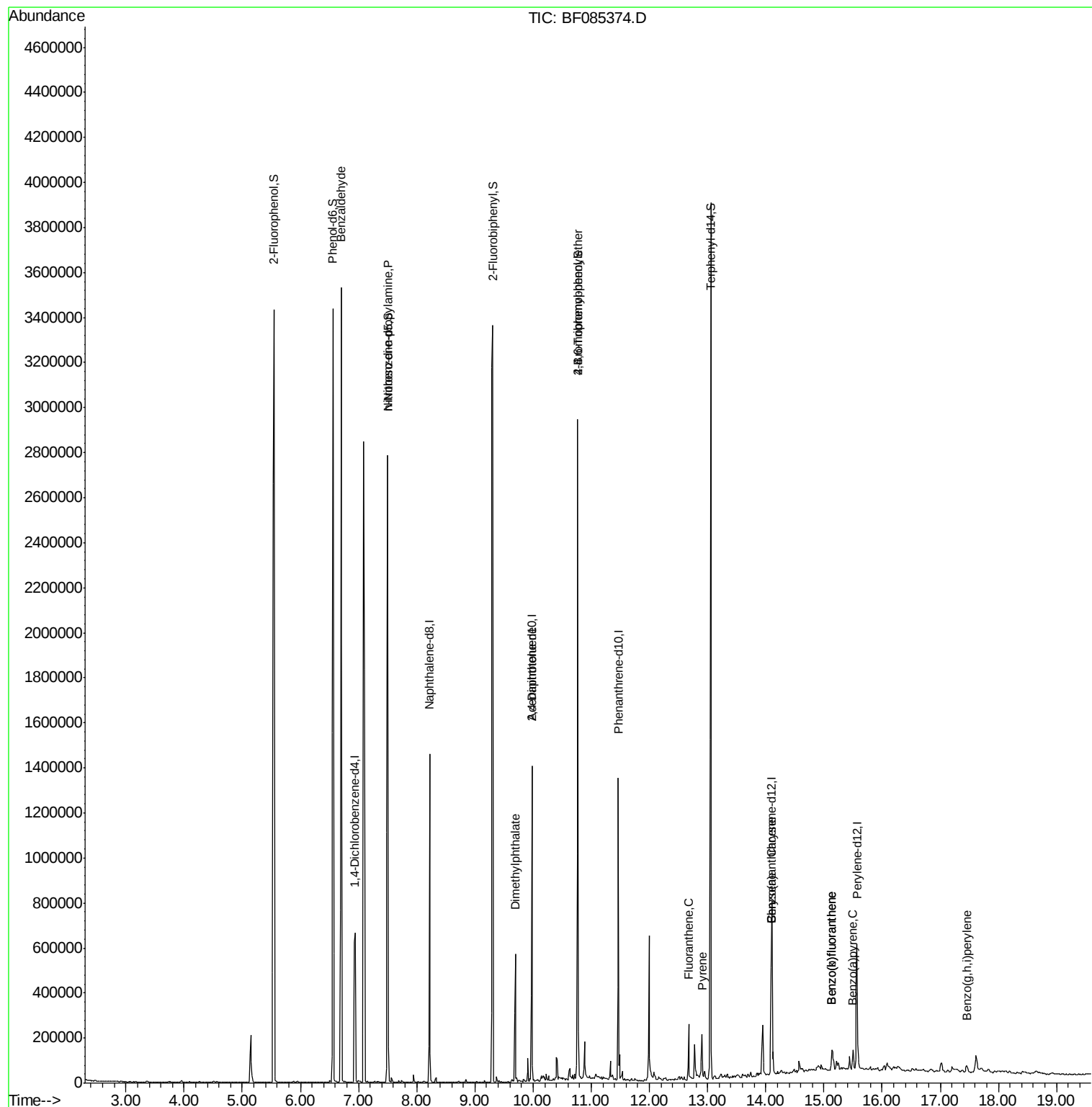
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.94  | 152  | 149395   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 8.22  | 136  | 595550   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.98  | 164  | 272430   | 20.00  | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.46 | 188  | 490998   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12               | 14.11 | 240  | 281957   | 20.00  | ng    | -0.05    |
| 86) Perylene-d12               | 15.57 | 264  | 256018   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.54  | 112  | 1381084  | 155.07 | ng    | -0.03    |
| 7) Phenol-d6                   | 6.56  | 99   | 1474520  | 126.37 | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.50  | 82   | 994981   | 89.40  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.77 | 330  | 340804   | 146.20 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 9.30  | 172  | 1598643  | 89.24  | ng    | -0.05    |
| 78) Terphenyl-d14              | 13.05 | 244  | 1215208  | 100.05 | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Benzaldehyde                | 6.70  | 77   | 28470    | 2.33   | ng    | 80       |
| 19) n-Nitroso-di-n-propylamine | 7.50  | 70   | 135973   | 17.88  | ng    | # 78     |
| 49) Dimethylphthalate          | 9.69  | 163  | 273202   | 13.07  | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.98  | 165  | 34501    | 6.03   | ng    | # 22     |
| 66) 4-Bromophenyl-phenylether  | 10.77 | 248  | 24644    | 5.17   | ng    | # 1      |
| 74) Fluoranthene               | 12.68 | 202  | 87468    | 3.39   | ng    | 97       |
| 77) Pyrene                     | 12.90 | 202  | 81526    | 3.84   | ng    | 96       |
| 80) Benzo(a)anthracene         | 14.09 | 228  | 48069    | 2.85   | ng    | 94       |
| 82) Chrysene                   | 14.09 | 228  | 48069    | 3.08   | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 15.13 | 252  | 67256    | 3.94   | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 15.13 | 252  | 67256    | 4.89   | ng    | 97       |
| 89) Benzo(a)pyrene             | 15.50 | 252  | 36370    | 2.57   | ng    | # 94     |
| 91) Benzo(g,h,i)perylene       | 17.45 | 276  | 29013    | 2.39   | ng    | 97       |

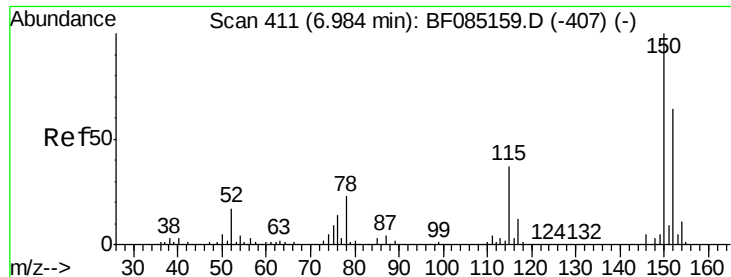
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration

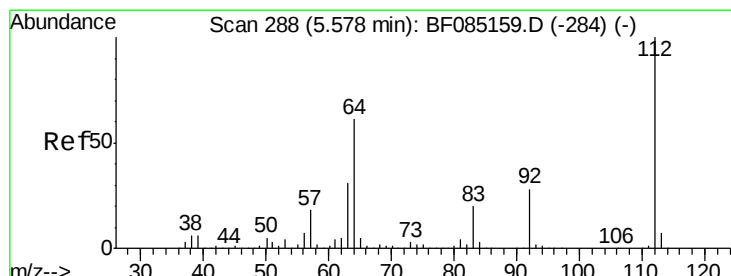
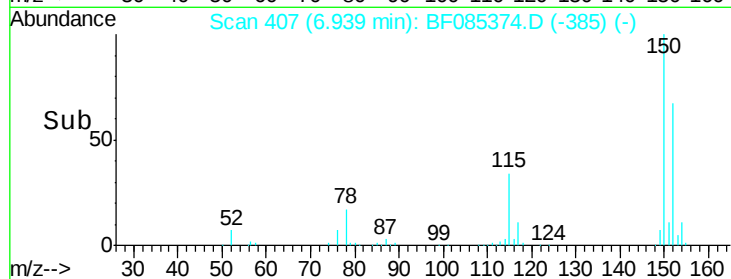
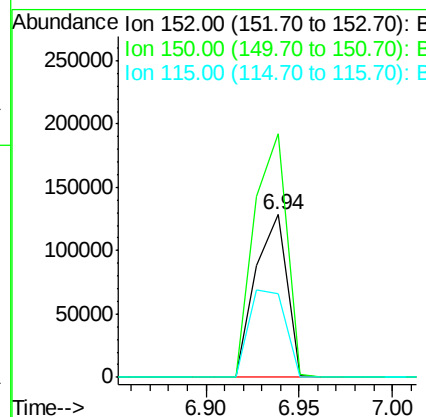
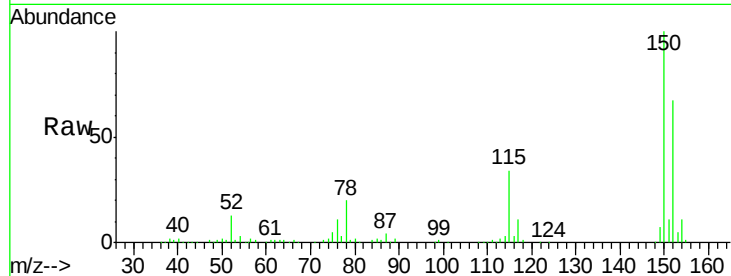




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.94 min Scan# 407  
 Delta R.T. -0.05 min  
 Lab File: BF085374.D  
 Acq: 11 Mar 2016 16:10

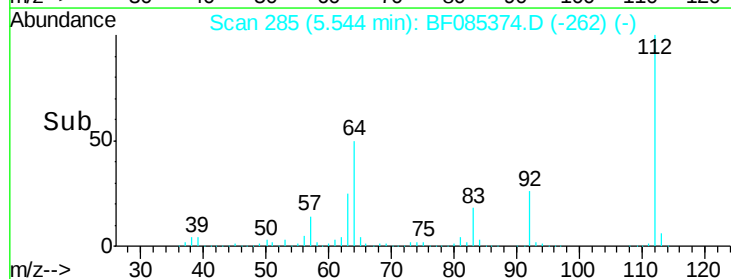
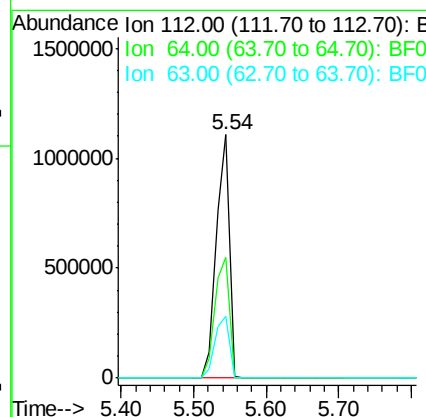
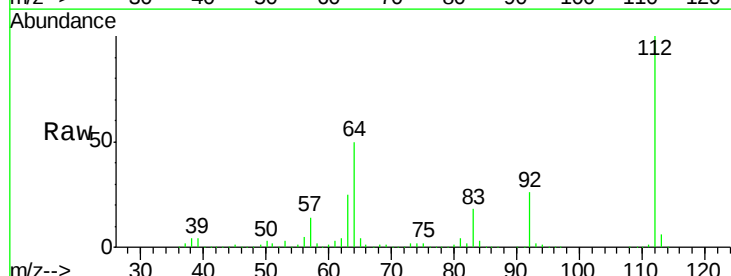
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-21-COMP

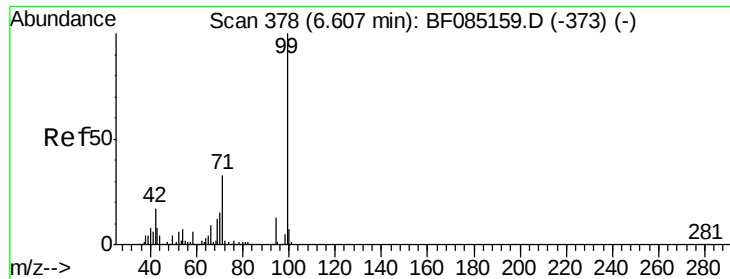
Tgt Ion:152 Resp: 149395  
 Ion Ratio Lower Upper  
 152 100  
 150 149.9 124.6 186.8  
 115 51.5 46.6 70.0



#5  
 2-Fluorophenol  
 Concen: 155.07 ng  
 RT: 5.54 min Scan# 285  
 Delta R.T. -0.03 min  
 Lab File: BF085374.D  
 Acq: 11 Mar 2016 16:10

Tgt Ion:112 Resp: 1381084  
 Ion Ratio Lower Upper  
 112 100  
 64 49.6 49.0 73.4  
 63 25.2 24.8 37.2





#7

Phenol-d6

Concen: 126.37 ng

RT: 6.56 min Scan# 374

Delta R.T. -0.05 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

Instrument :

BNA\_F

ClientSampleId :

SB-21-COMP

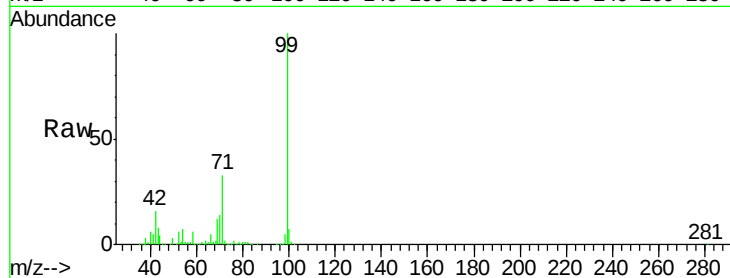
Tgt Ion: 99 Resp: 1474520

Ion Ratio Lower Upper

99 100

42 15.9 13.6 20.4

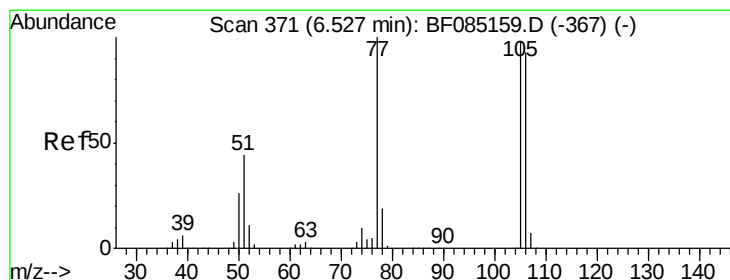
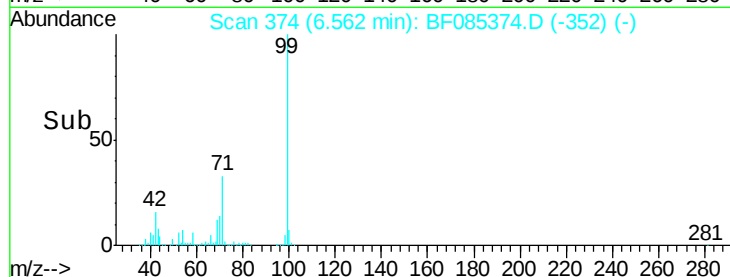
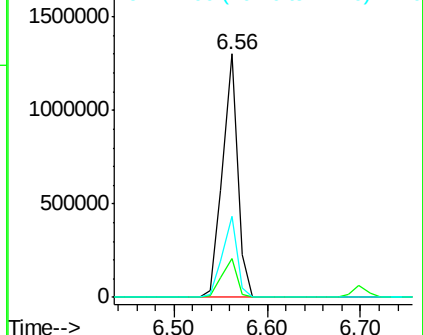
71 33.1 26.7 40.1



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: 2.33 ng

RT: 6.70 min Scan# 386

Delta R.T. 0.17 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

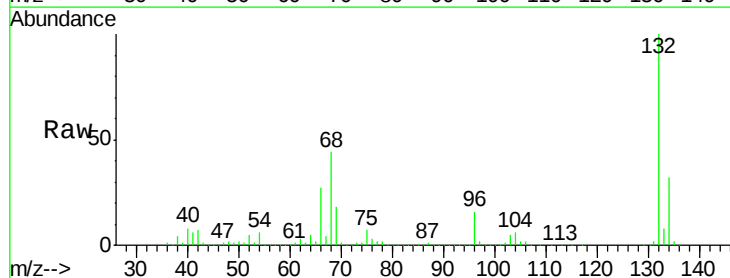
Tgt Ion: 77 Resp: 28470

Ion Ratio Lower Upper

77 100

105 79.1 78.2 118.2

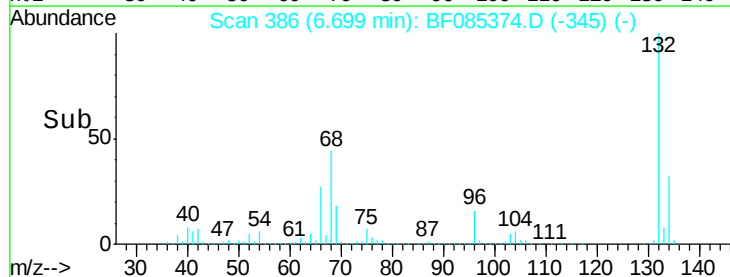
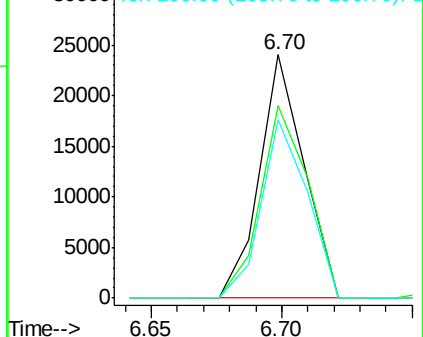
106 73.4 72.9 112.9

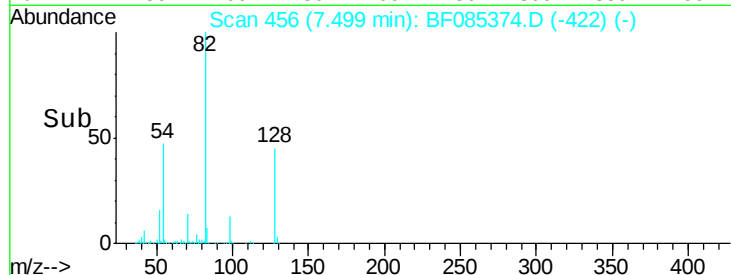
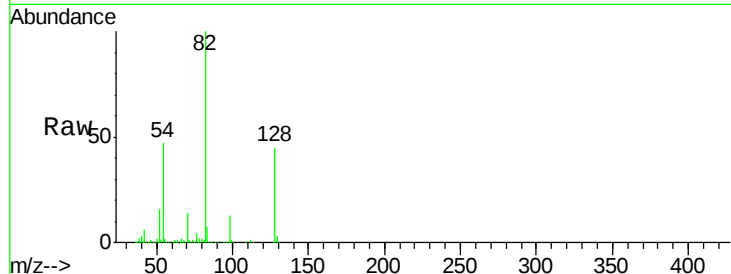


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

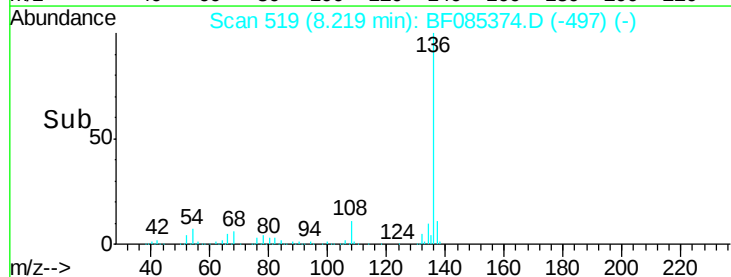
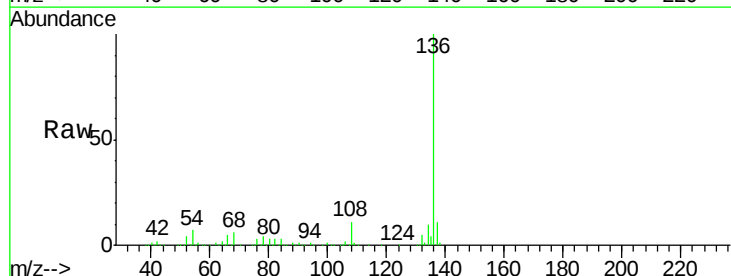
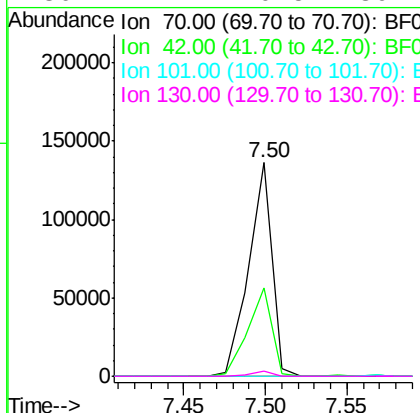




#19  
n-Nitroso-di-n-propylamine  
Concen: 17.88 ng  
RT: 7.50 min Scan# 456  
Delta R.T. 0.09 min  
Lab File: BF085374.D  
Acq: 11 Mar 2016 16:10

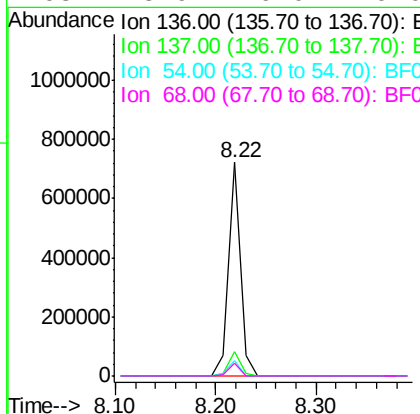
Instrument :  
BNA\_F  
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SB-21-COMP

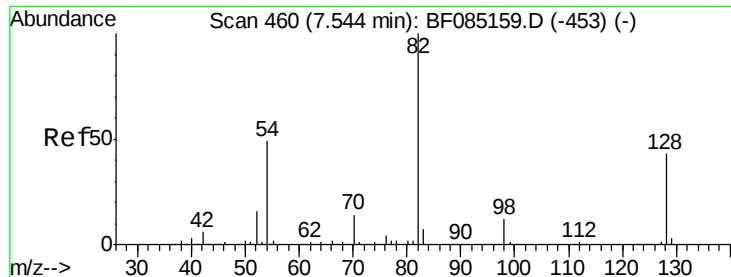
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 135973 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 41.5  | 37.7  | 56.5   |
| 101      | 0.0   | 8.2   | 12.4#  |
| 130      | 2.2   | 20.5  | 30.7#  |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.22 min Scan# 519  
Delta R.T. -0.05 min  
Lab File: BF085374.D  
Acq: 11 Mar 2016 16:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 595550 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.3   | 13.9   |
| 54       | 7.3   | 7.4   | 11.2#  |
| 68       | 5.9   | 6.0   | 9.0#   |

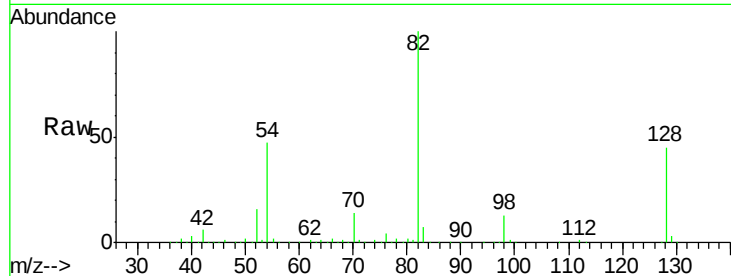




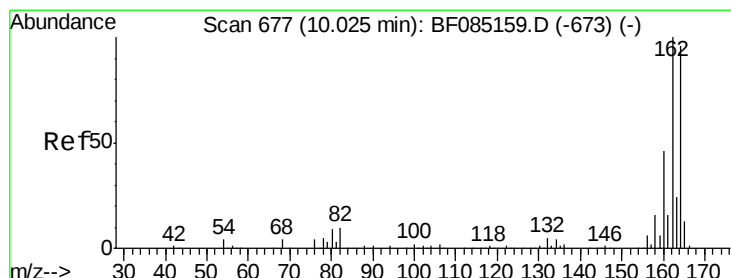
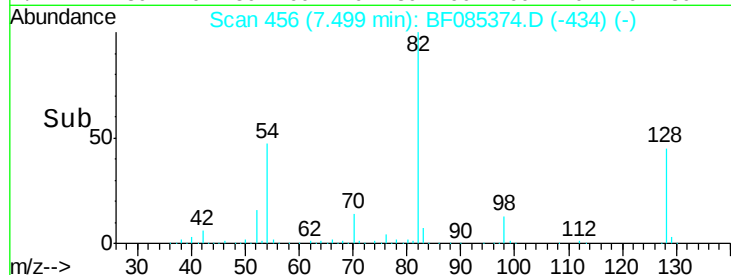
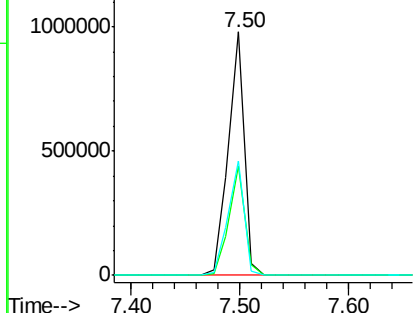
#23  
 Nitrobenzene-d5  
 Concen: 89.40 ng  
 RT: 7.50 min Scan# 456  
 Delta R.T. -0.05 min  
 Lab File: BF085374.D  
 Acq: 11 Mar 2016 16:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-21-COMP

Tgt Ion: 82 Resp: 994981  
 Ion Ratio Lower Upper  
 82 100  
 128 45.0 34.5 51.7  
 54 46.9 39.3 58.9

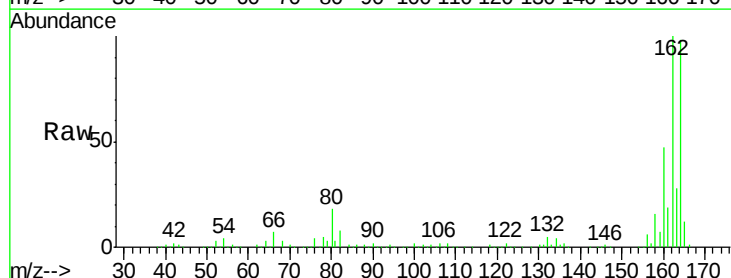


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

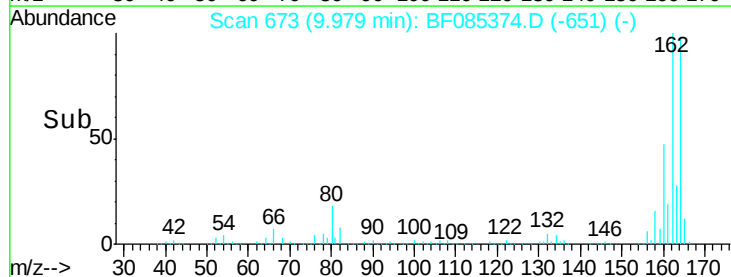
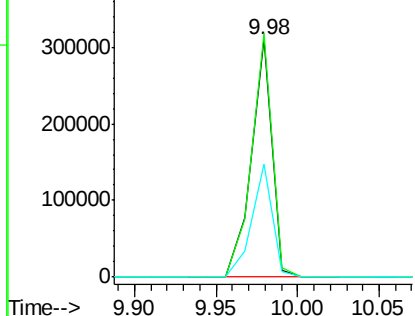


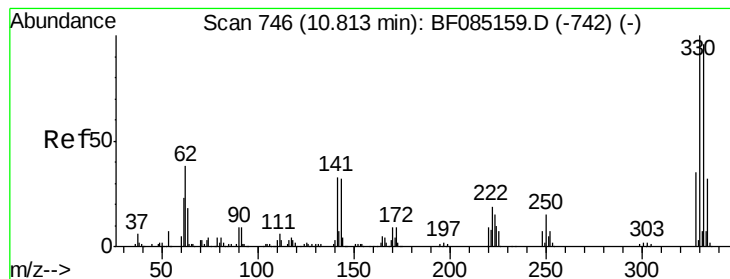
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.98 min Scan# 673  
 Delta R.T. -0.05 min  
 Lab File: BF085374.D  
 Acq: 11 Mar 2016 16:10

Tgt Ion: 164 Resp: 272430  
 Ion Ratio Lower Upper  
 164 100  
 162 102.2 83.3 124.9  
 160 47.6 37.9 56.9



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

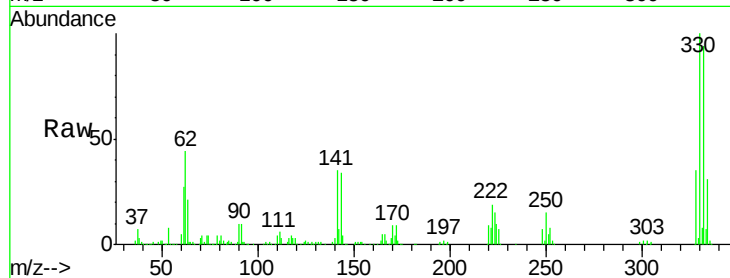




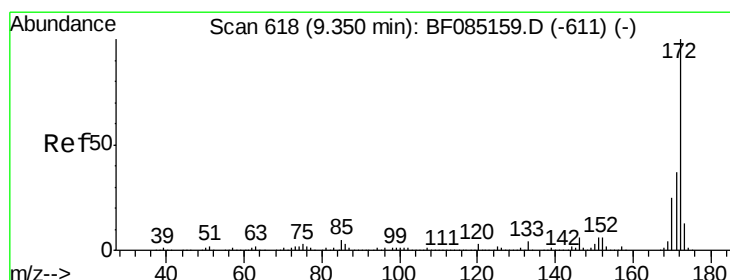
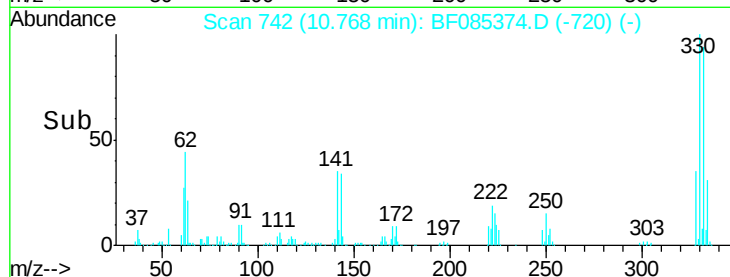
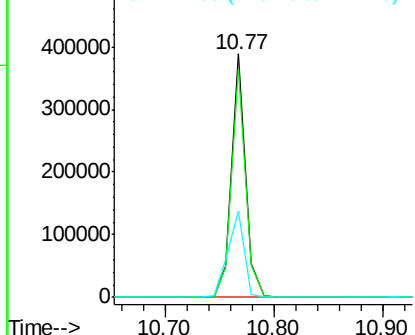
#41  
 2,4,6-Tribromophenol  
 Concen: 146.20 ng  
 RT: 10.77 min Scan# 742  
 Delta R.T. -0.05 min  
 Lab File: BF085374.D  
 Acq: 11 Mar 2016 16:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-21-COMP

Tgt Ion:330 Resp: 340804  
 Ion Ratio Lower Upper  
 330 100  
 332 94.4 77.1 115.7  
 141 41.6 35.0 52.6

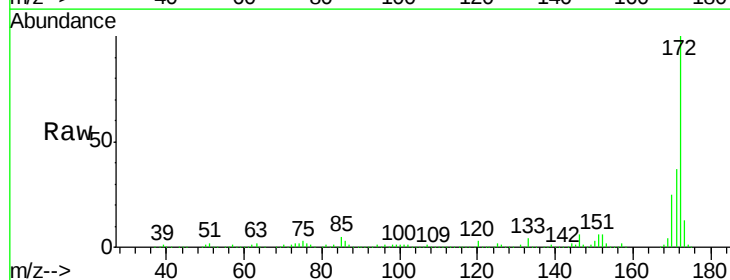


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

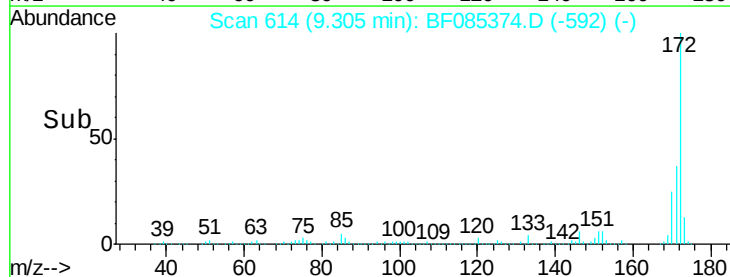
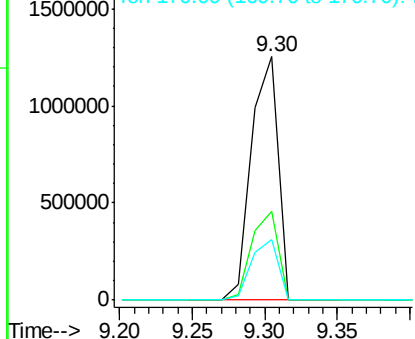


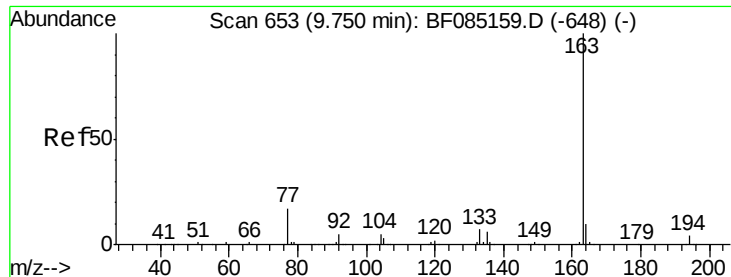
#44  
 2-Fluorobiphenyl  
 Concen: 89.24 ng  
 RT: 9.30 min Scan# 614  
 Delta R.T. -0.05 min  
 Lab File: BF085374.D  
 Acq: 11 Mar 2016 16:10

Tgt Ion:172 Resp: 1598643  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.3 43.9  
 170 24.8 20.0 30.0



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: 13.07 ng

RT: 9.69 min Scan# 648

Delta R.T. -0.06 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

Instrument :

BNA\_F

ClientSampleId :

SB-21-COMP

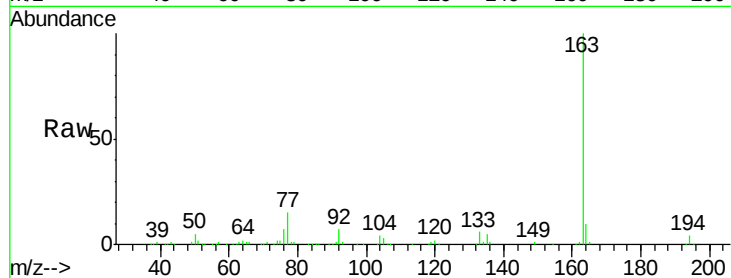
Tgt Ion:163 Resp: 273202

Ion Ratio Lower Upper

163 100

194 3.7 3.1 4.7

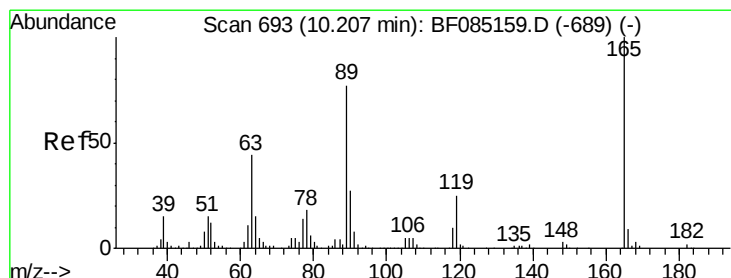
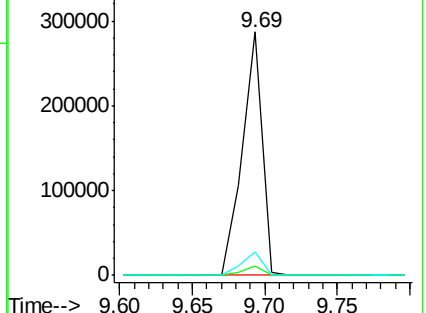
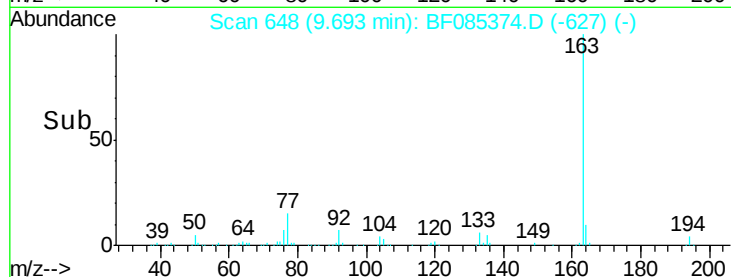
164 9.6 8.2 12.4



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



#56

2,4-Dinitrotoluene

Concen: 6.03 ng

RT: 9.98 min Scan# 673

Delta R.T. -0.23 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

Tgt Ion:165 Resp: 34501

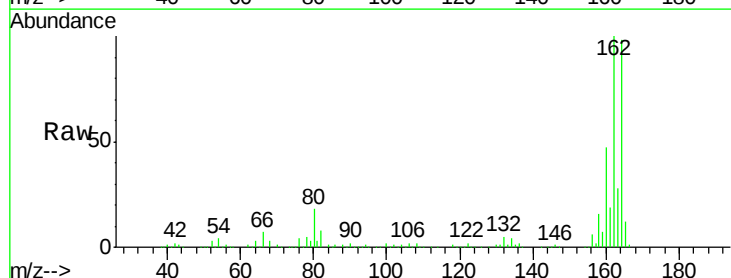
Ion Ratio Lower Upper

165 100

63 1.0 35.4 53.0#

89 1.6 61.9 92.9#

182 0.0 1.9 2.9#

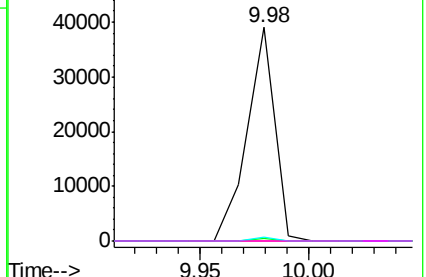
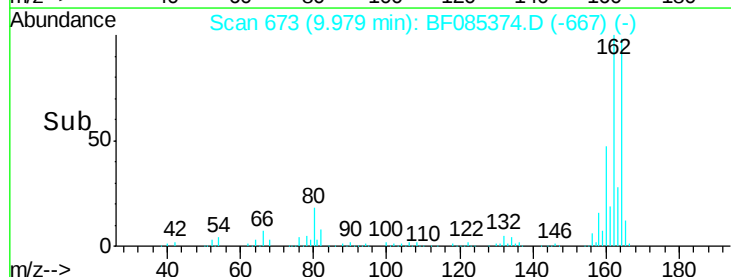


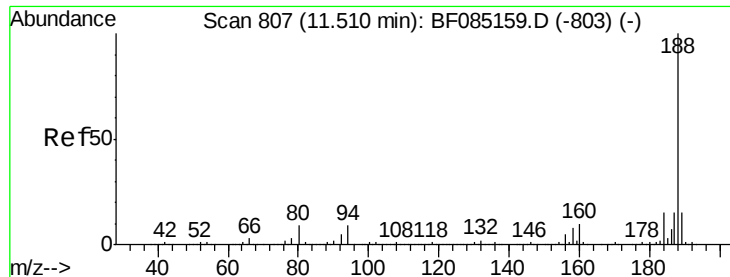
Abundance Ion 165.00 (164.70 to 165.70): E

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

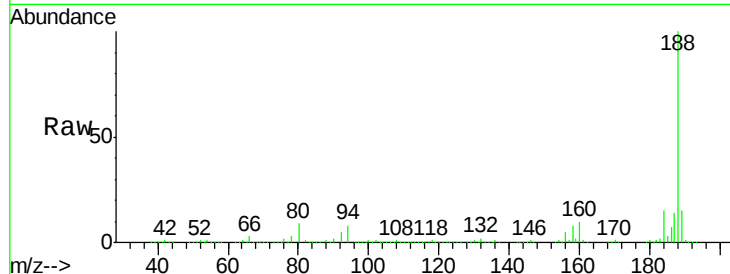




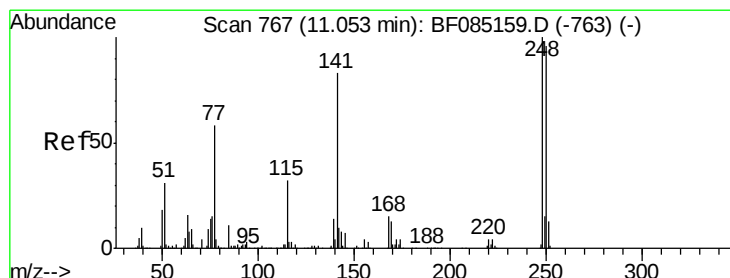
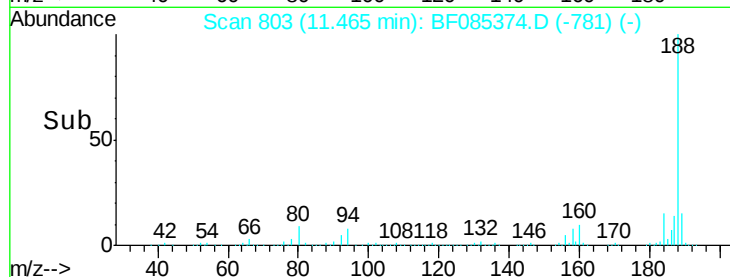
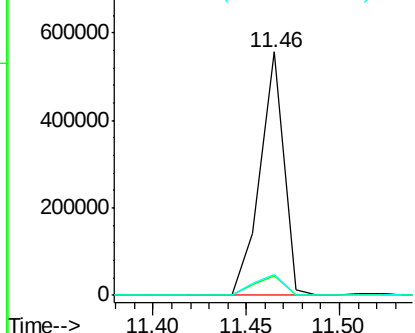
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.46 min Scan# 803  
Delta R.T. -0.05 min  
Lab File: BF085374.D  
Acq: 11 Mar 2016 16:10

Instrument :  
BNA\_F  
ClientSampleId :  
SB-21-COMP

Tgt Ion:188 Resp: 490998  
Ion Ratio Lower Upper  
188 100  
94 8.2 7.0 10.6  
80 8.6 7.4 11.0

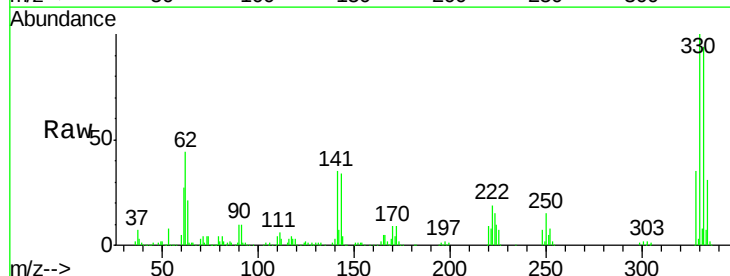


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

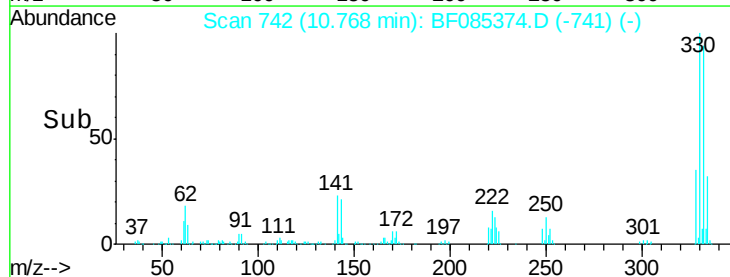
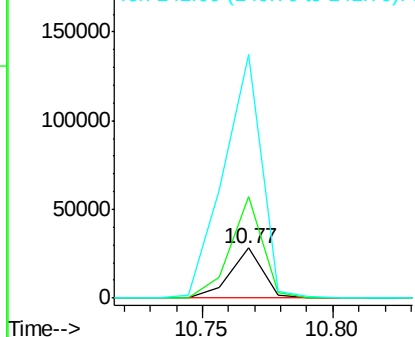


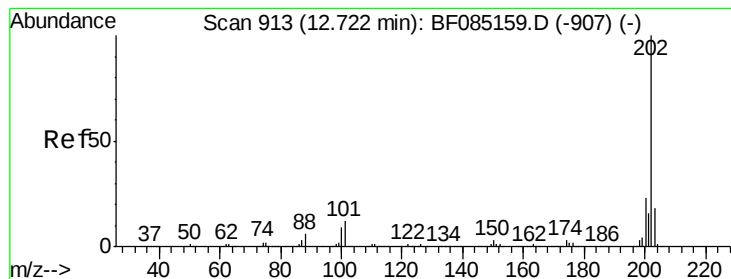
#66  
4-Bromophenyl-phenylether  
Concen: 5.17 ng  
RT: 10.77 min Scan# 742  
Delta R.T. -0.29 min  
Lab File: BF085374.D  
Acq: 11 Mar 2016 16:10

Tgt Ion:248 Resp: 24644  
Ion Ratio Lower Upper  
248 100  
250 202.2 77.1 115.7#  
141 486.9 66.2 99.2#



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





#74

Fluoranthene

Concen: 3.39 ng

RT: 12.68 min Scan# 909

Delta R.T. -0.05 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

Instrument :

BNA\_F

ClientSampleId :

SB-21-COMP

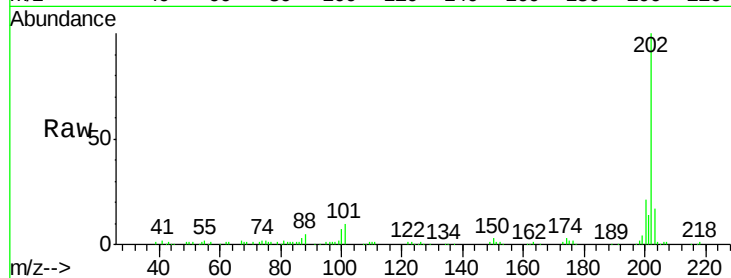
Tgt Ion:202 Resp: 87468

Ion Ratio Lower Upper

202 100

101 9.7 0.0 31.8

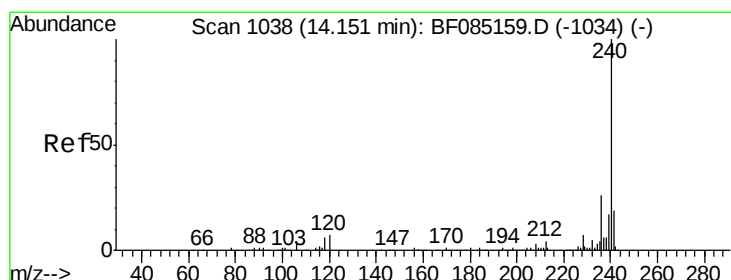
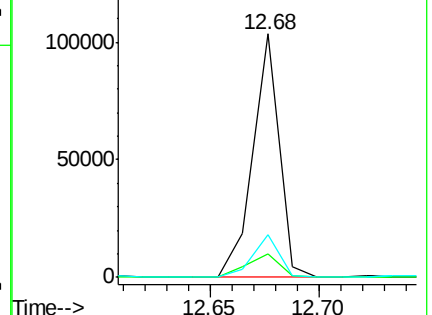
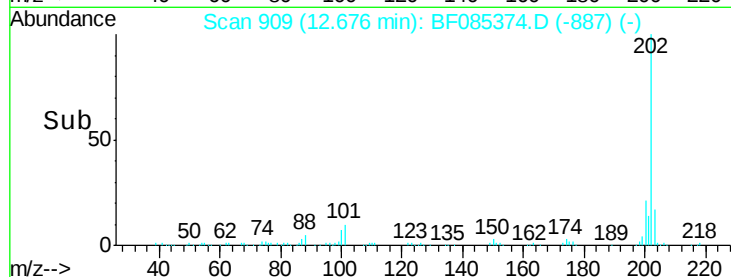
203 17.5 0.0 38.4



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: 14.11 min Scan# 1034

Delta R.T. -0.05 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

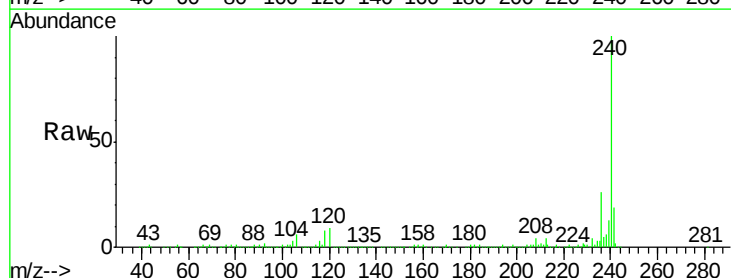
Tgt Ion:240 Resp: 281957

Ion Ratio Lower Upper

240 100

120 9.3 5.3 7.9#

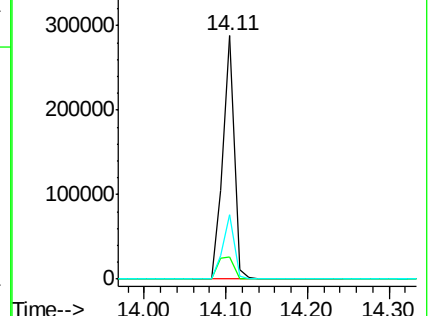
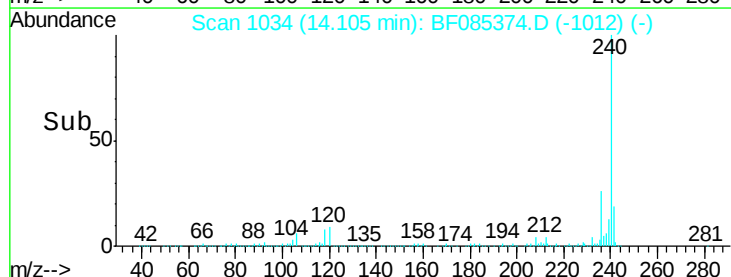
236 26.3 20.7 31.1

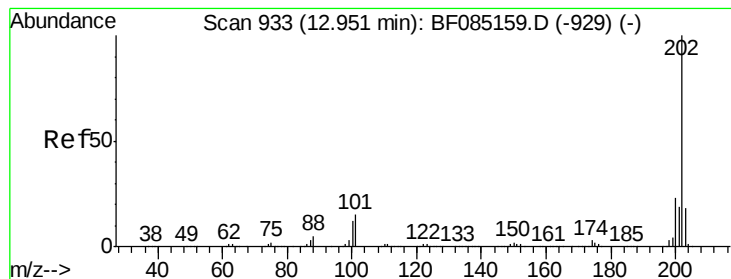


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 3.84 ng

RT: 12.90 min Scan# 929

Delta R.T. -0.05 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

Instrument :

BNA\_F

ClientSampleId :

SB-21-COMP

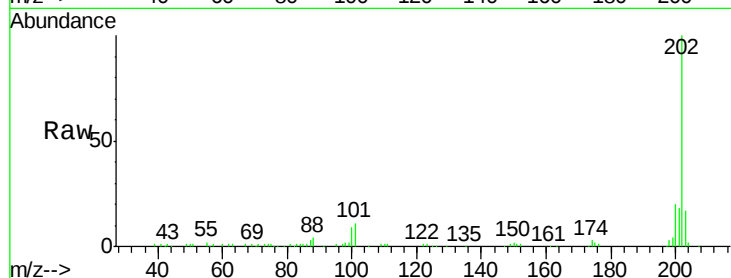
Tgt Ion: 202 Resp: 81526

Ion Ratio Lower Upper

202 100

200 20.3 18.2 27.4

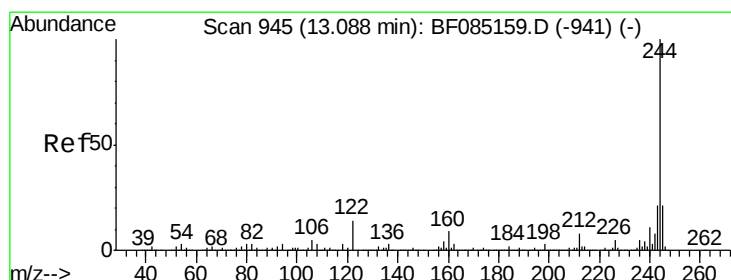
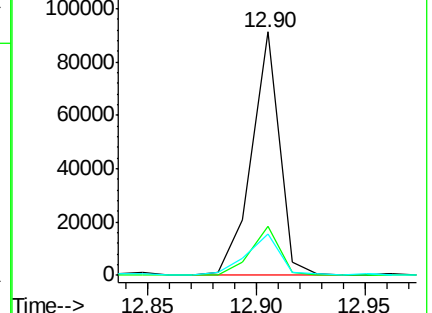
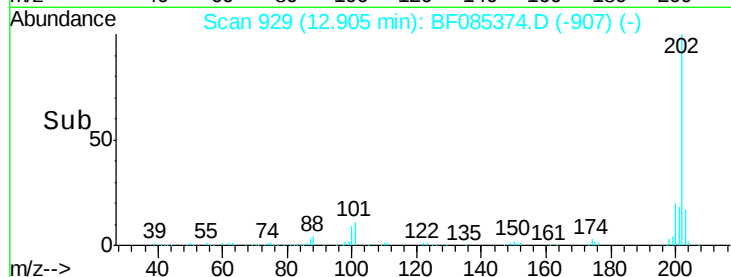
203 16.8 14.7 22.1



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: 100.05 ng

RT: 13.05 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

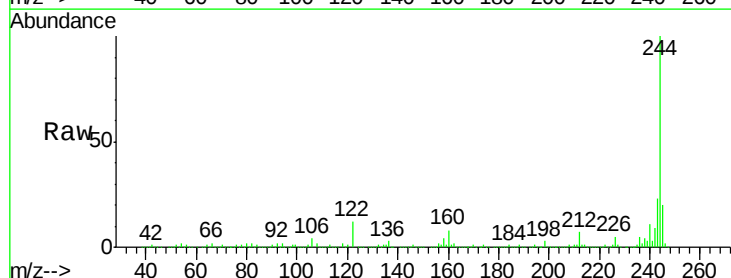
Tgt Ion: 244 Resp: 1215208

Ion Ratio Lower Upper

244 100

212 7.4 6.4 9.6

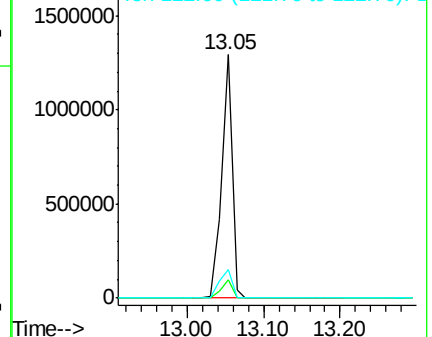
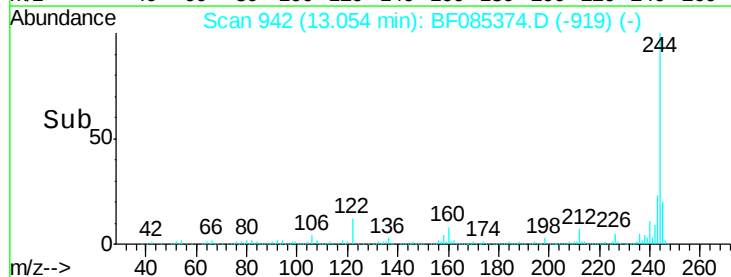
122 11.9 11.4 17.2

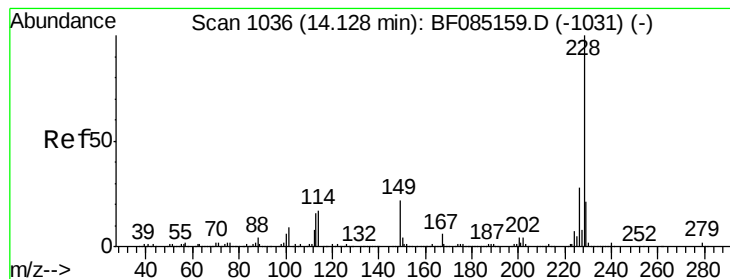


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 2.85 ng

RT: 14.09 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

Instrument :

BNA\_F

ClientSampleId :

SB-21-COMP

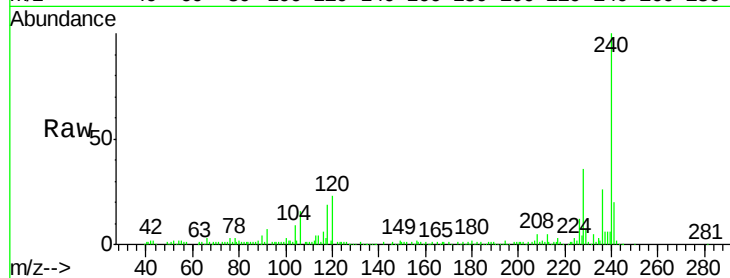
Tgt Ion:228 Resp: 48069

Ion Ratio Lower Upper

228 100

226 34.1 22.8 34.2

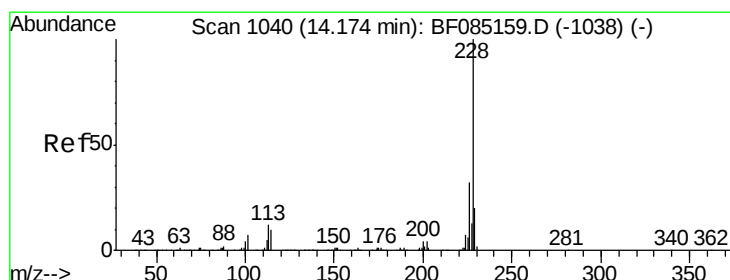
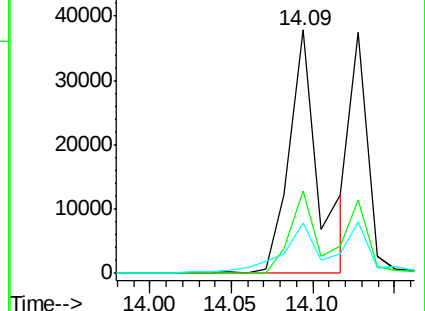
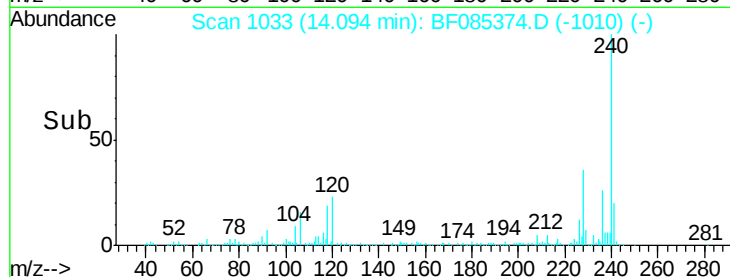
229 20.5 16.6 24.8



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



#82

Chrysene

Concen: 3.08 ng

RT: 14.09 min Scan# 1033

Delta R.T. -0.08 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

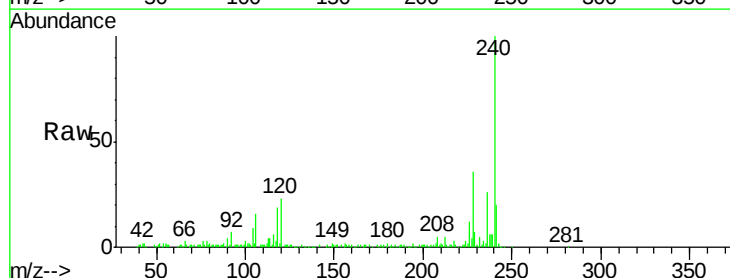
Tgt Ion:228 Resp: 48069

Ion Ratio Lower Upper

228 100

226 34.1 25.2 37.8

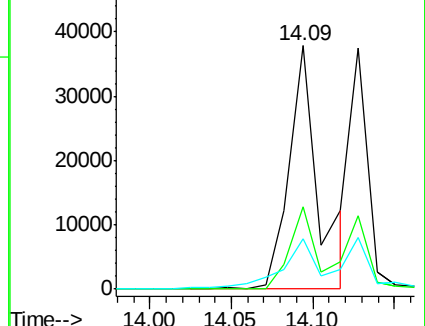
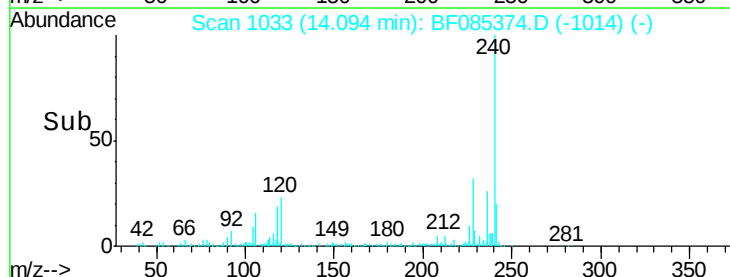
229 20.5 16.0 24.0

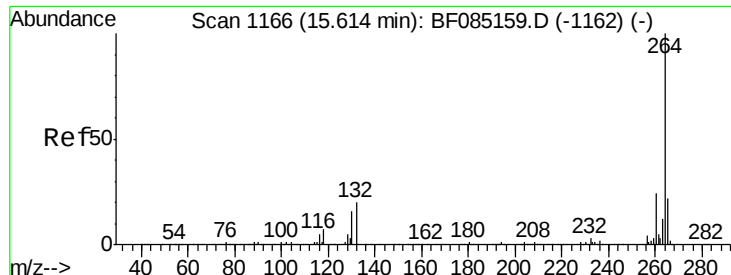


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

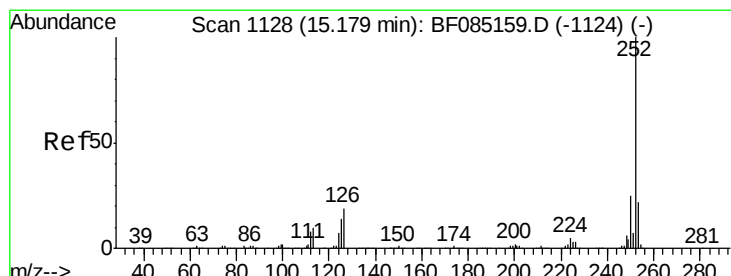
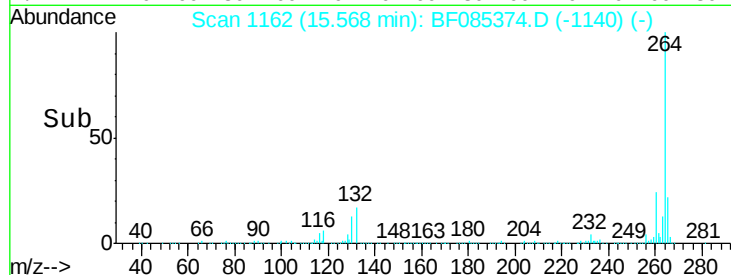
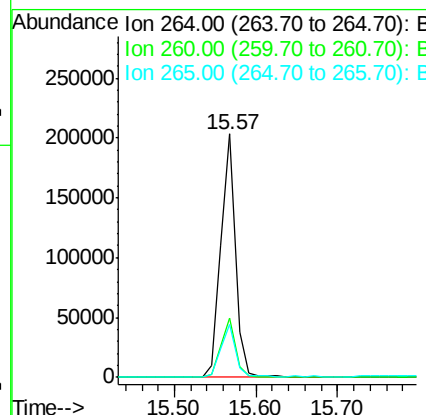
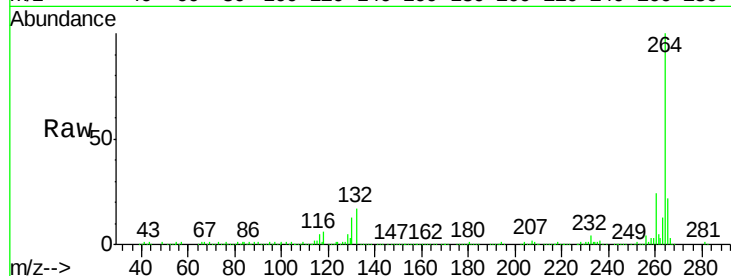




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.57 min Scan# 1162  
Delta R.T. -0.05 min  
Lab File: BF085374.D  
Acq: 11 Mar 2016 16:10

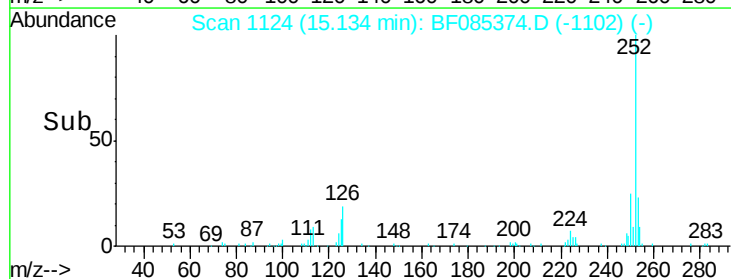
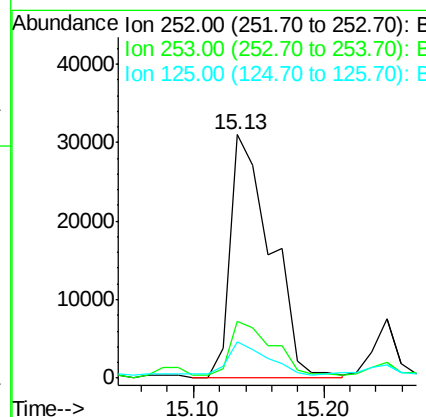
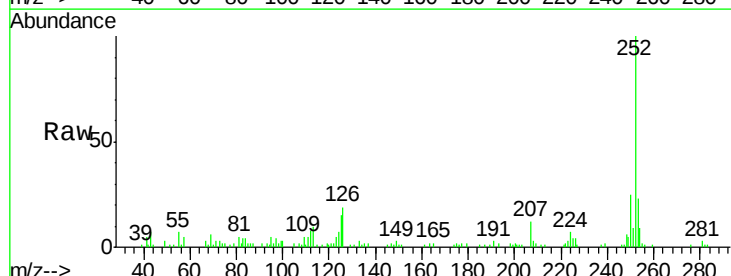
Instrument :  
BNA\_F  
ClientSampleId :  
SB-21-COMP

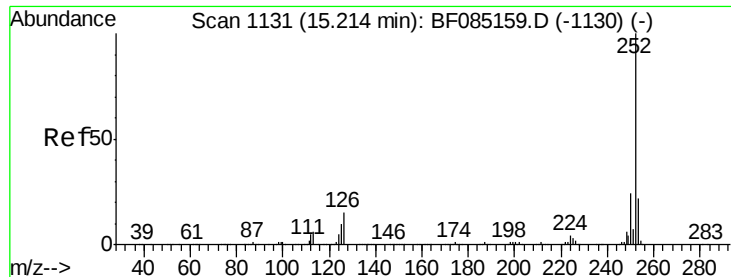
Tgt Ion: 264 Resp: 256018  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.2 28.8  
265 21.9 17.3 25.9



#87  
Benzo(b)fluoranthene  
Concen: 3.94 ng  
RT: 15.13 min Scan# 1124  
Delta R.T. -0.05 min  
Lab File: BF085374.D  
Acq: 11 Mar 2016 16:10

Tgt Ion: 252 Resp: 67256  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.8 26.6  
125 15.0 11.3 16.9

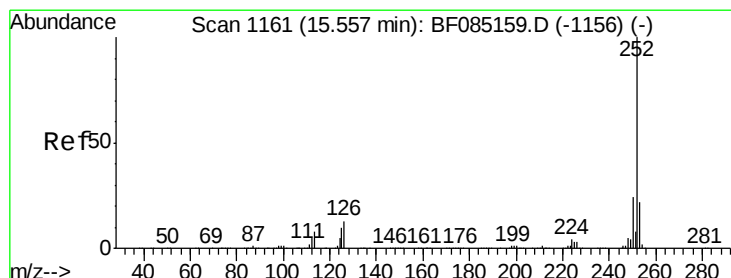
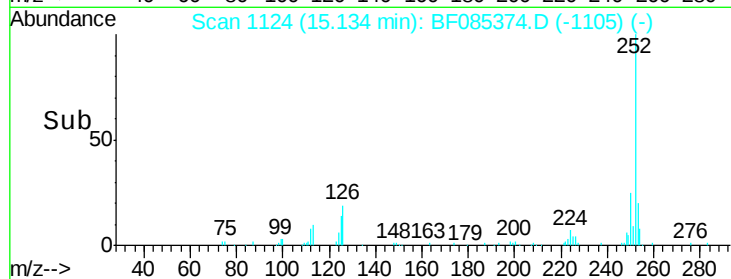
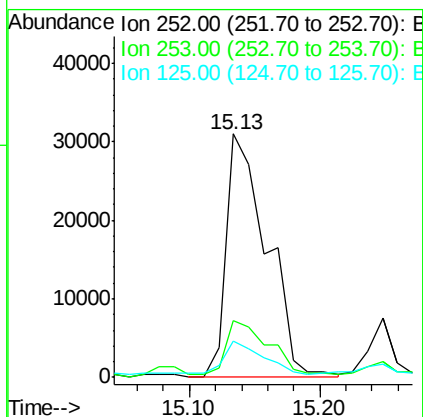
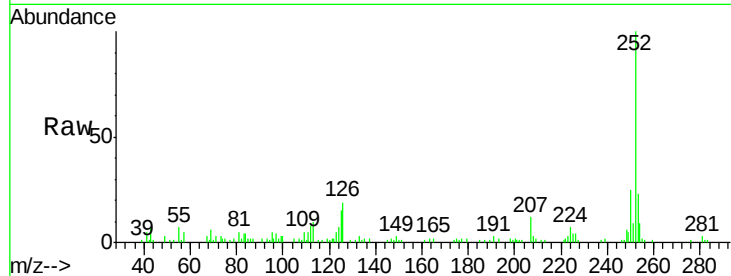




#88  
Benzo(k)fluoranthene  
Concen: 4.89 ng  
RT: 15.13 min Scan# 1124  
Delta R.T. -0.08 min  
Lab File: BF085374.D  
Acq: 11 Mar 2016 16:10

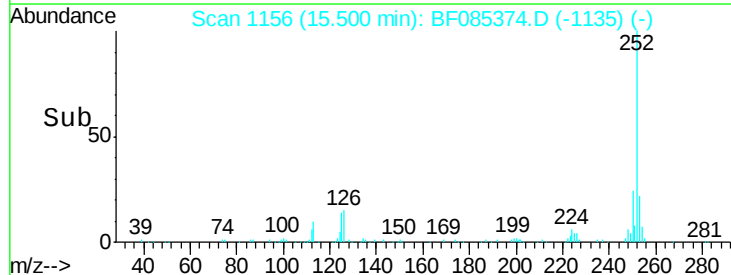
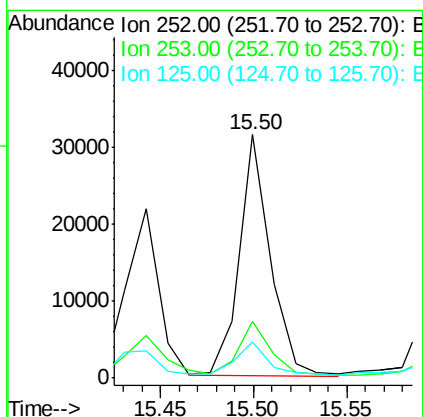
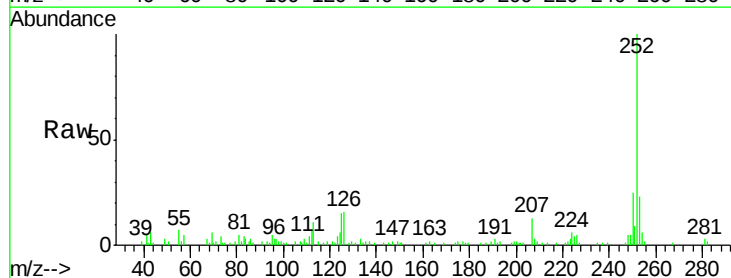
Instrument :  
BNA\_F  
ClientSampleId :  
SB-21-COMP

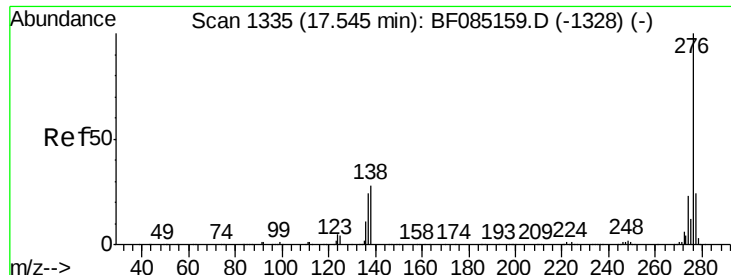
Tgt Ion:252 Resp: 67256  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.8 26.6  
125 15.0 10.4 15.6



#89  
Benzo(a)pyrene  
Concen: 2.57 ng  
RT: 15.50 min Scan# 1156  
Delta R.T. -0.06 min  
Lab File: BF085374.D  
Acq: 11 Mar 2016 16:10

Tgt Ion:252 Resp: 36370  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.4 26.0  
125 15.0 8.2 12.4#





#91

Benzo(g,h,i)perylene

Concen: 2.39 ng

RT: 17.45 min Scan# 1327

Delta R.T. -0.09 min

Lab File: BF085374.D

Acq: 11 Mar 2016 16:10

Instrument :

BNA\_F

ClientSampleId :

SB-21-COMP

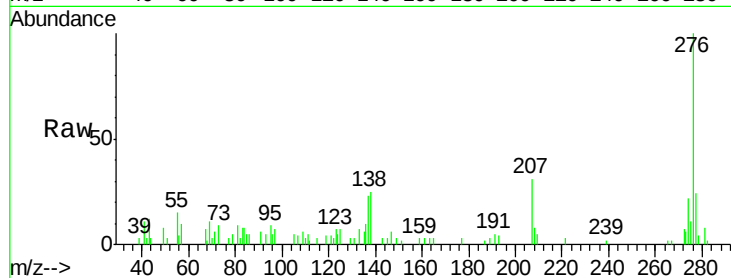
Tgt Ion: 276 Resp: 29013

Ion Ratio Lower Upper

276 100

277 24.2 19.0 28.4

138 25.5 22.5 33.7



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

