

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF010317\  
 Data File : BF092069.D  
 Acq On : 3 Jan 2017 19:14  
 Operator : UM/SJ  
 Sample : H6322-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP9-COMP9

Quant Time: Jan 04 00:11:05 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 28 17:32:10 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.66  | 152  | 200032   | 20.00 | ng    | -0.04    |
| 21) Naphthalene-d8        | 7.96  | 136  | 697004   | 20.00 | ng    | -0.04    |
| 38) Acenaphthene-d10      | 9.70  | 164  | 376129   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.19 | 188  | 585419   | 20.00 | ng    | -0.04    |
| 75) Chrysene-d12          | 13.82 | 240  | 389149   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 15.19 | 264  | 363541   | 20.00 | ng    | -0.06    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.28  | 112  | 1302165  | 108.70 | ng    | -0.04    |
| 7) Phenol-d6                | 6.33  | 99   | 1659802  | 113.48 | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.24  | 82   | 1022767  | 81.59  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.49 | 330  | 333765   | 107.23 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 9.03  | 172  | 1354400  | 71.77  | ng    | -0.05    |
| 78) Terphenyl-d14           | 12.78 | 244  | 1055331  | 65.77  | ng    | -0.04    |

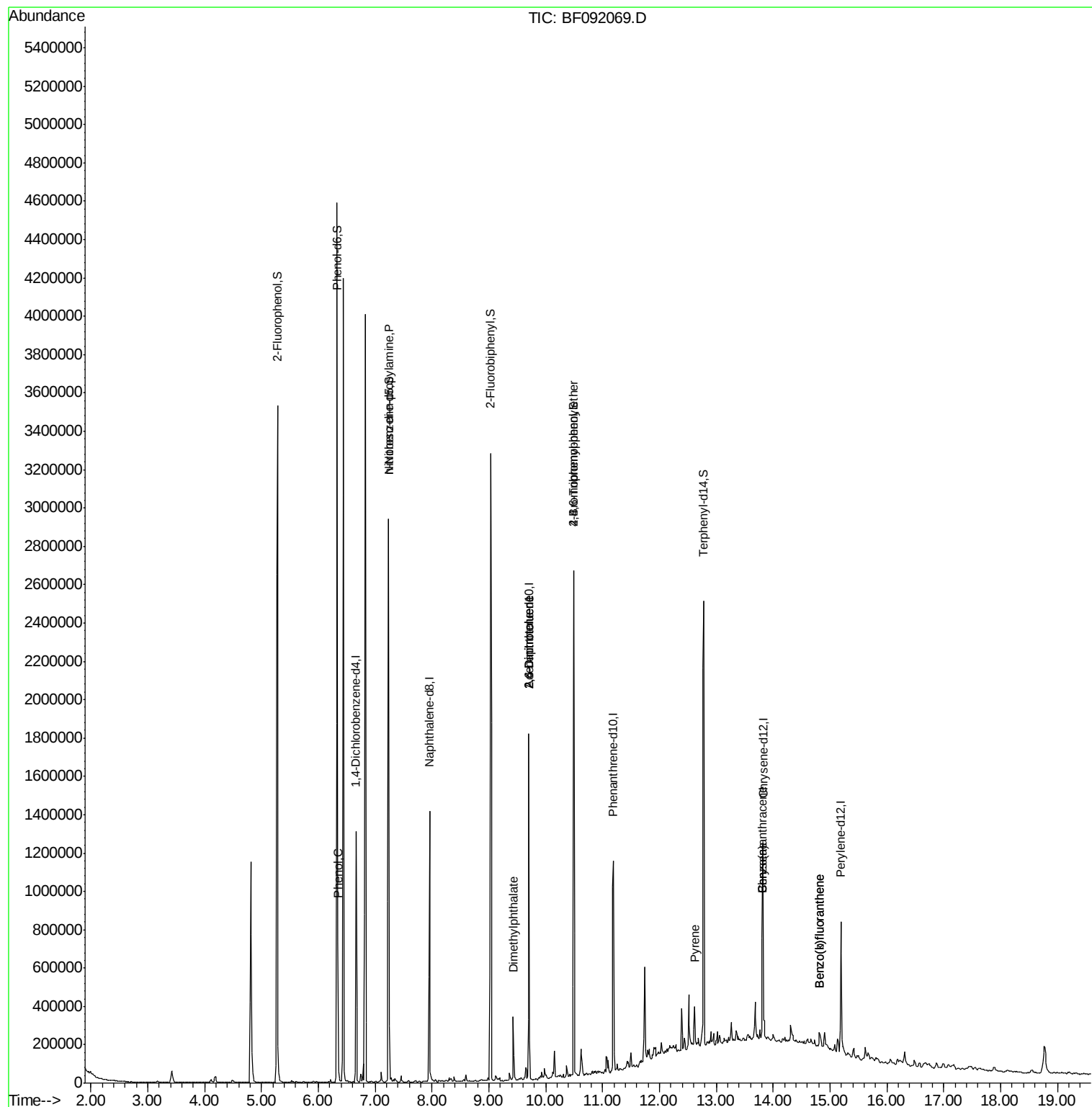
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.34  | 94   | 126475   | 7.59      | ng    | # 69   |
| 19) n-Nitroso-di-n-propylamine | 7.24  | 70   | 137573   | 14.14     | ng    | # 77   |
| 37) 2-Methylnaphthalene        | 8.66  | 142  | 975      | Below Cal |       | # 86   |
| 49) Dimethylphthalate          | 9.43  | 163  | 136659   | 5.68      | ng    | # 99   |
| 50) 2,6-Dinitrotoluene         | 9.70  | 165  | 48597    | 9.23      | ng    | # 31   |
| 56) 2,4-Dinitrotoluene         | 9.70  | 165  | 48597    | 7.35      | ng    | # 20   |
| 66) 4-Bromophenyl-phenylether  | 10.49 | 248  | 19924    | 3.27      | ng    | # 1    |
| 71) Anthracene                 | 11.26 | 178  | 11805    | Below Cal |       | # 97   |
| 73) Di-n-butylphthalate        | 11.76 | 149  | 7536     | Below Cal |       | # 89   |
| 74) Fluoranthene               | 12.39 | 202  | 90744    | Below Cal |       | # 97   |
| 76) Benzidine                  | 12.56 | 184  | 492      | Below Cal |       | # 1    |
| 77) Pyrene                     | 12.62 | 202  | 84958    | 2.98      | ng    | # 97   |
| 80) Benzo(a)anthracene         | 13.81 | 228  | 46994    | 2.14      | ng    | # 92   |
| 82) Chrysene                   | 13.81 | 228  | 46994    | 2.13      | ng    | # 96   |
| 87) Benzo(b)fluoranthene       | 14.81 | 252  | 55521    | 2.45      | ng    | # 95   |
| 88) Benzo(k)fluoranthene       | 14.81 | 252  | 55521    | 2.88      | ng    | # 94   |

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

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Data File : BF092069.D  
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Operator : UM/SJ  
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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP9-COMP9

Quant Time: Jan 04 00:11:05 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 28 17:32:10 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 418

Delta R.T. -0.04 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

Instrument :

BNA\_F

ClientSampleId :

TP9-COMP9

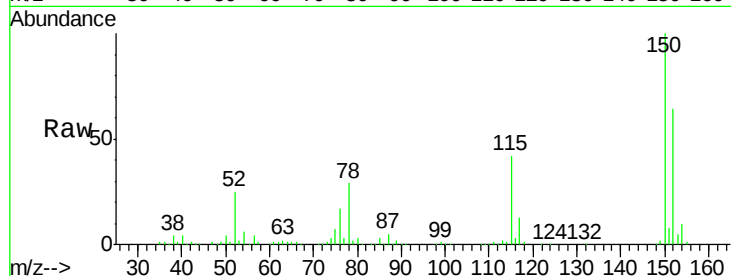
Tgt Ion:152 Resp: 200032

Ion Ratio Lower Upper

152 100

150 156.9 124.9 187.3

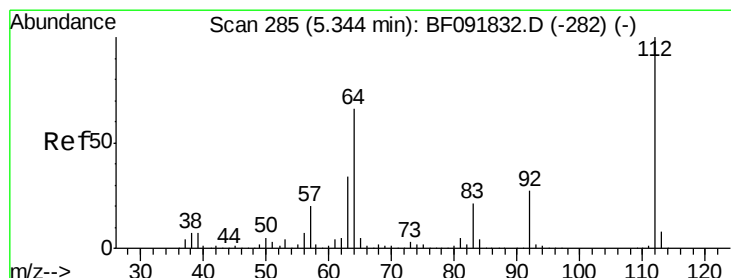
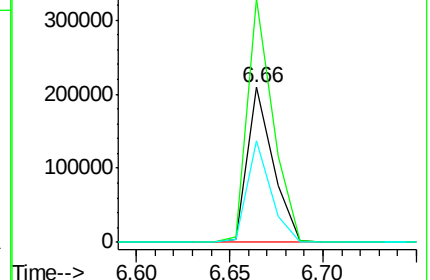
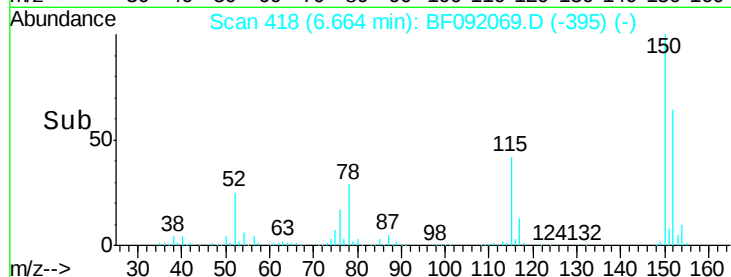
115 65.7 46.0 69.0



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: 108.70 ng

RT: 5.28 min Scan# 297

Delta R.T. -0.04 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

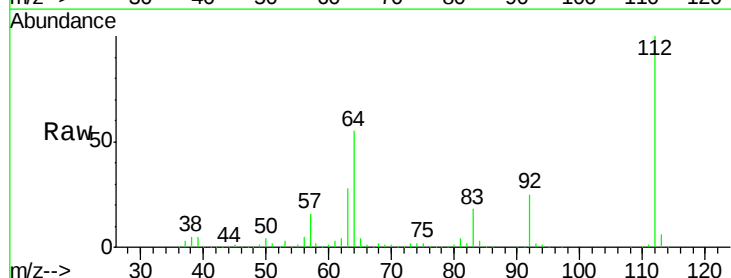
Tgt Ion:112 Resp: 1302165

Ion Ratio Lower Upper

112 100

64 55.0 46.1 69.1

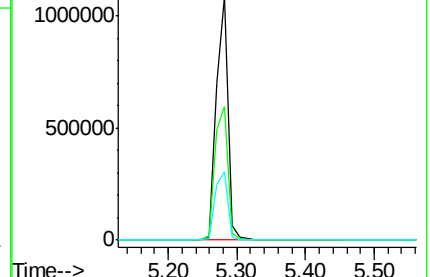
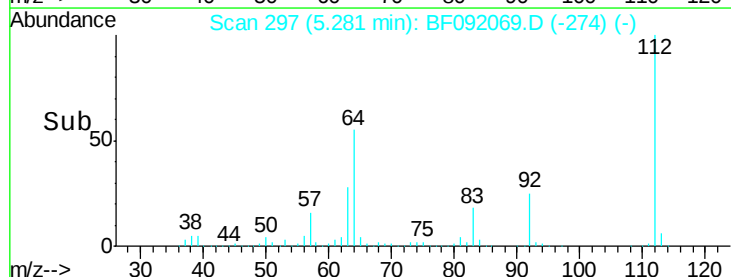
63 28.2 23.8 35.6



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: 113.48 ng

RT: 6.33 min Scan# 389

Delta R.T. -0.05 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

Instrument :

BNA\_F

ClientSampleId :

TP9-COMP9

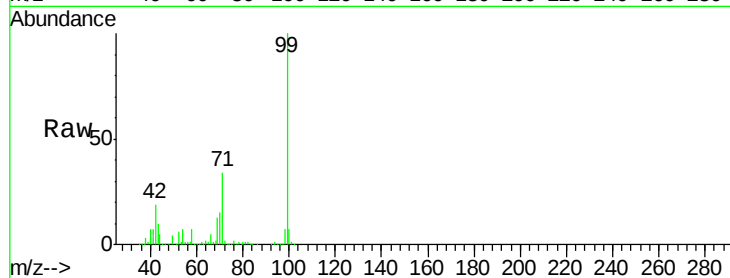
Tgt Ion: 99 Resp: 1659802

Ion Ratio Lower Upper

99 100

42 19.2 15.6 23.4

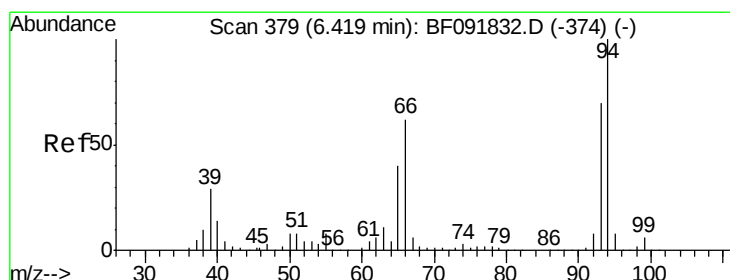
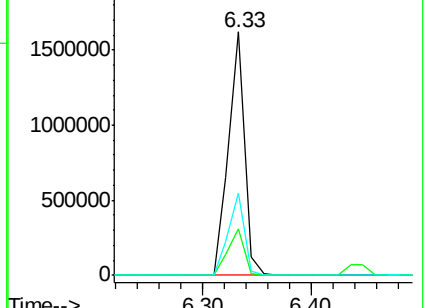
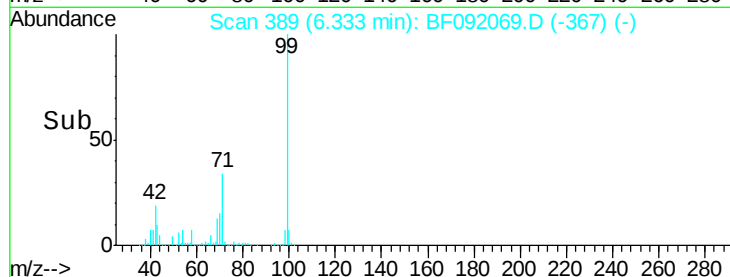
71 33.9 27.5 41.3



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



#10

Phenol

Concen: 7.59 ng

RT: 6.34 min Scan# 390

Delta R.T. -0.05 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

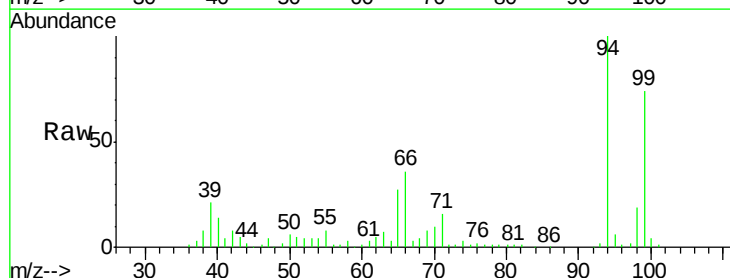
Tgt Ion: 94 Resp: 126475

Ion Ratio Lower Upper

94 100

65 26.6 21.4 61.4

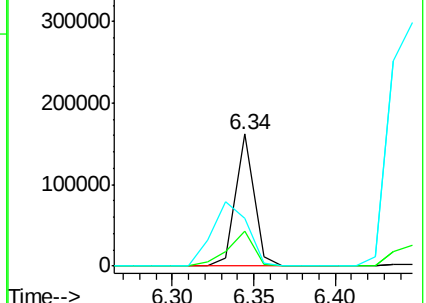
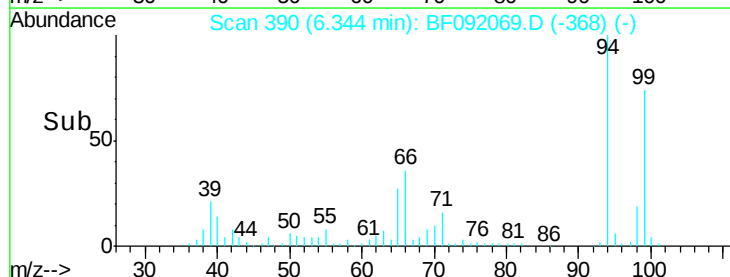
66 36.4 44.0 84.0#

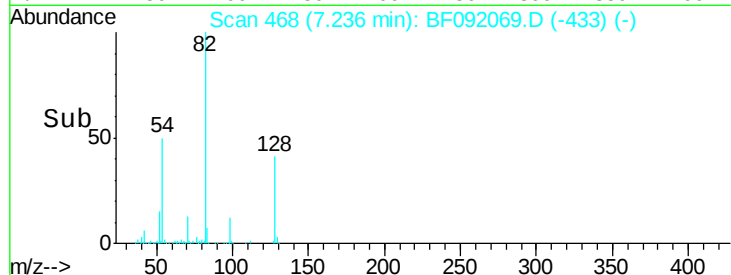
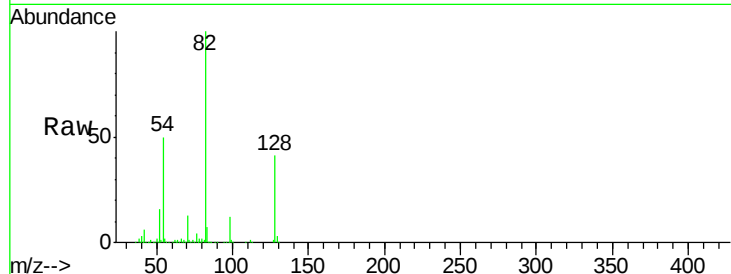


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

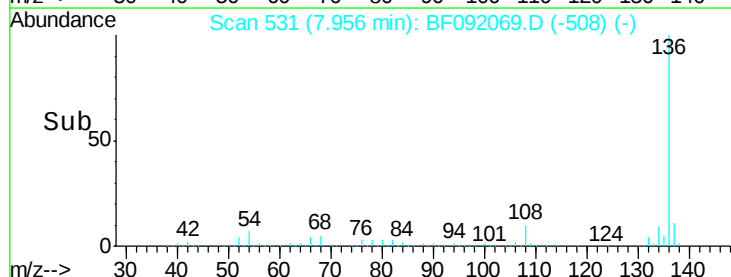
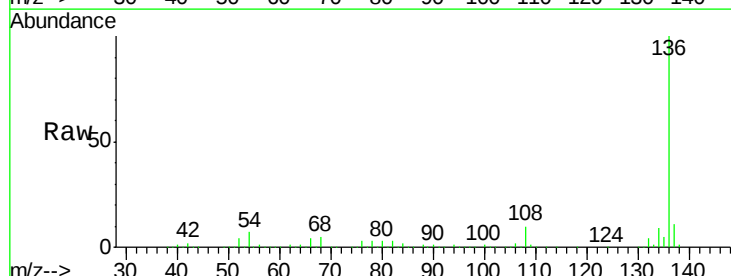
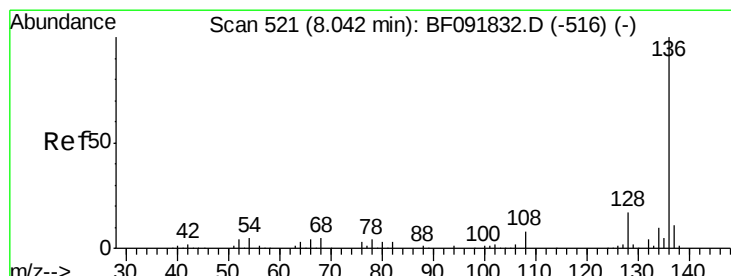
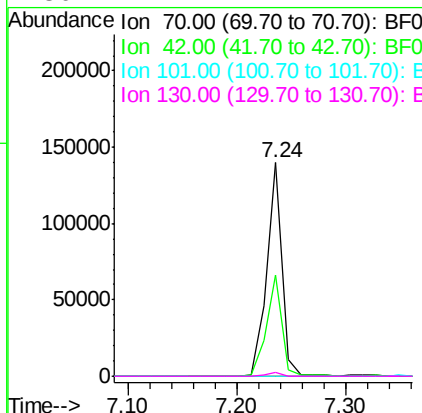




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.14 ng  
RT: 7.24 min Scan# 468  
Delta R.T. 0.10 min  
Lab File: BF092069.D  
Acq: 3 Jan 2017 19:14

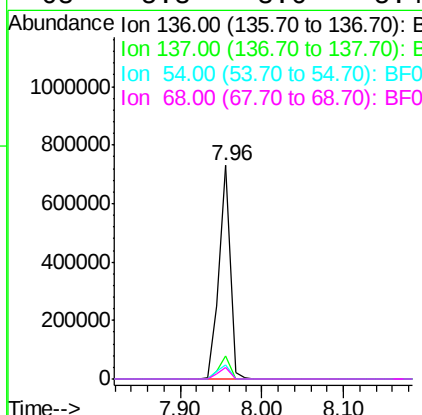
Instrument :  
BNA\_F  
ClientSampleId :  
TP9-COMP9

Tgt Ion: 70 Resp: 137573  
Ion Ratio Lower Upper  
70 100  
42 47.2 49.4 74.0#  
101 0.0 7.4 11.2#  
130 2.1 14.2 21.4#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.96 min Scan# 531  
Delta R.T. -0.04 min  
Lab File: BF092069.D  
Acq: 3 Jan 2017 19:14

Tgt Ion: 136 Resp: 697004  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.4 12.6  
54 6.7 4.5 6.7  
68 5.3 3.6 5.4

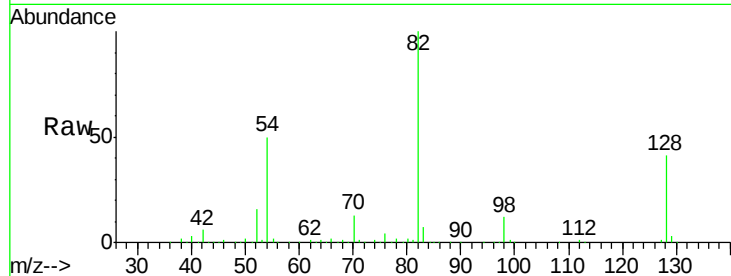




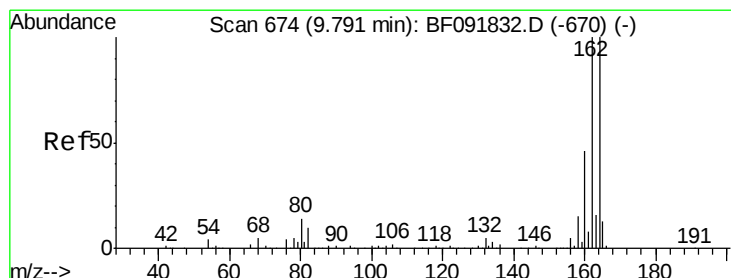
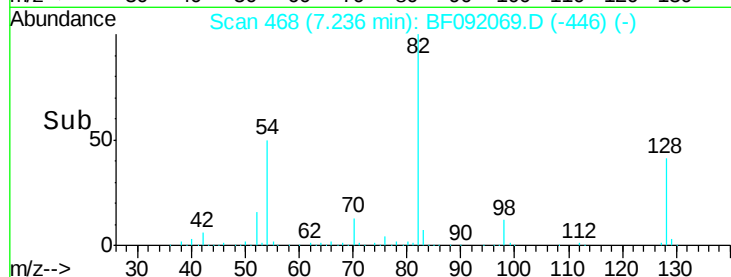
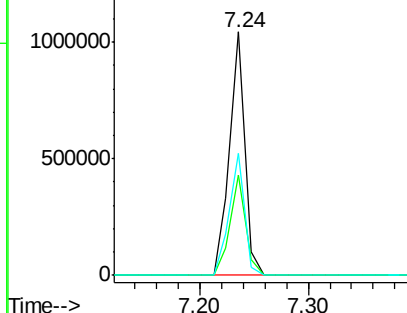
#23  
 Nitrobenzene-d5  
 Concen: 81.59 ng  
 RT: 7.24 min Scan# 468  
 Delta R.T. -0.05 min  
 Lab File: BF092069.D  
 Acq: 3 Jan 2017 19:14

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP9-COMP9

Tgt Ion: 82 Resp: 1022767  
 Ion Ratio Lower Upper  
 82 100  
 128 41.3 34.6 52.0  
 54 50.0 39.5 59.3

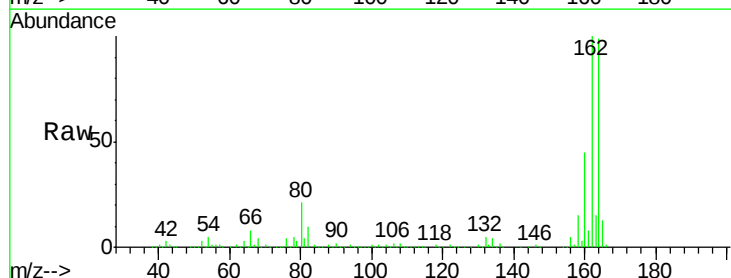


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

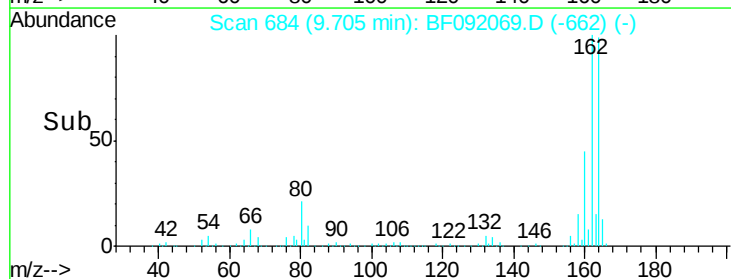
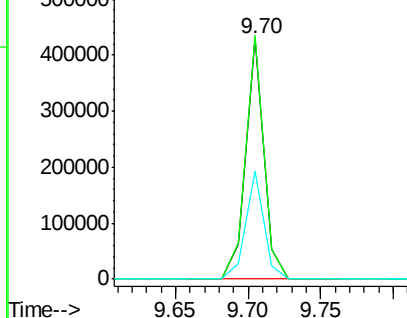


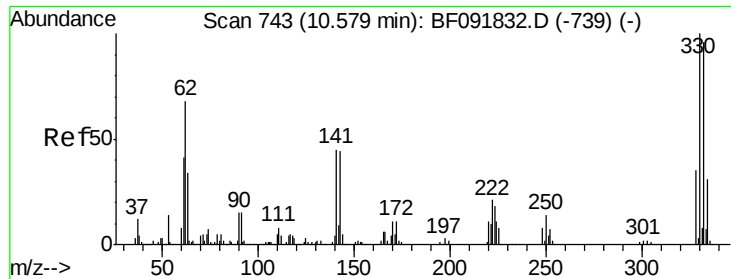
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.70 min Scan# 684  
 Delta R.T. -0.05 min  
 Lab File: BF092069.D  
 Acq: 3 Jan 2017 19:14

Tgt Ion: 164 Resp: 376129  
 Ion Ratio Lower Upper  
 164 100  
 162 101.2 80.2 120.2  
 160 45.1 36.9 55.3



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

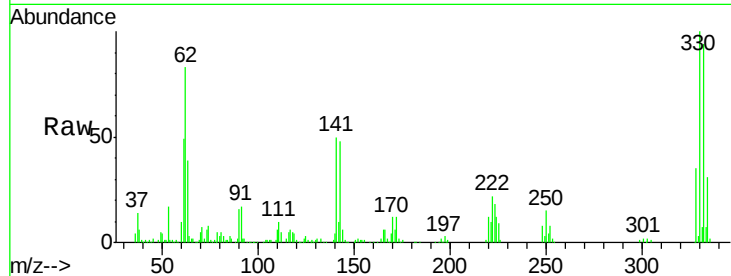




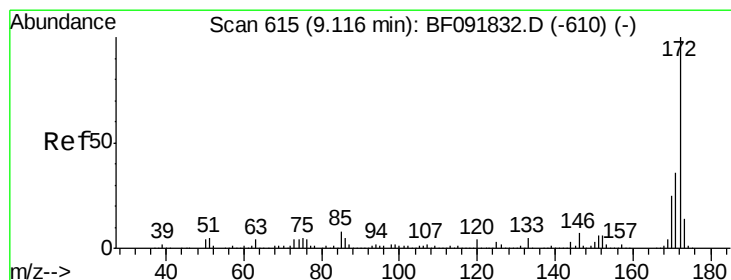
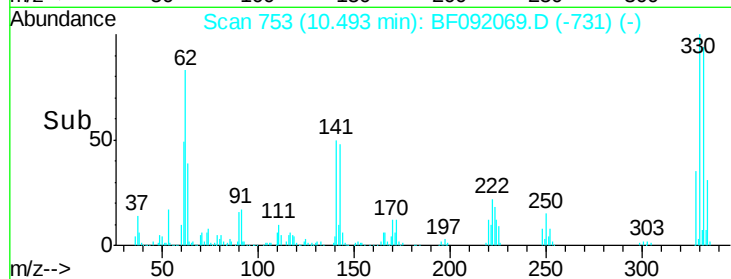
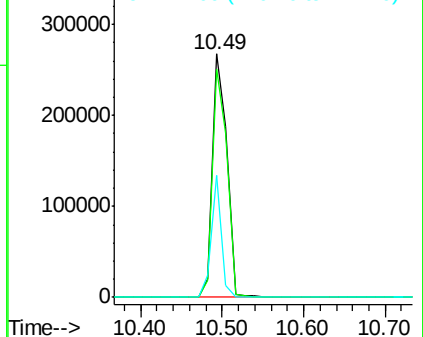
#41  
 2,4,6-Tribromophenol  
 Concen: 107.23 ng  
 RT: 10.49 min Scan# 753  
 Delta R.T. -0.05 min  
 Lab File: BF092069.D  
 Acq: 3 Jan 2017 19:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP9-COMP9

Tgt Ion:330 Resp: 333765  
 Ion Ratio Lower Upper  
 330 100  
 332 94.2 77.4 116.2  
 141 36.1 34.1 51.1

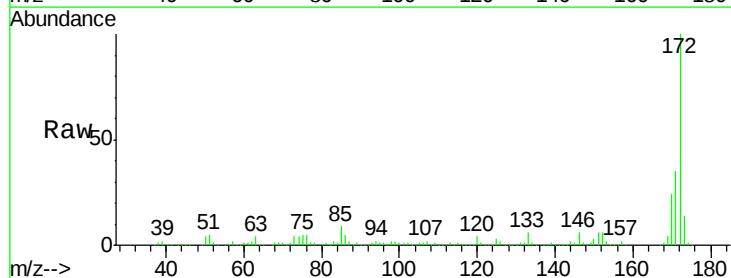


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

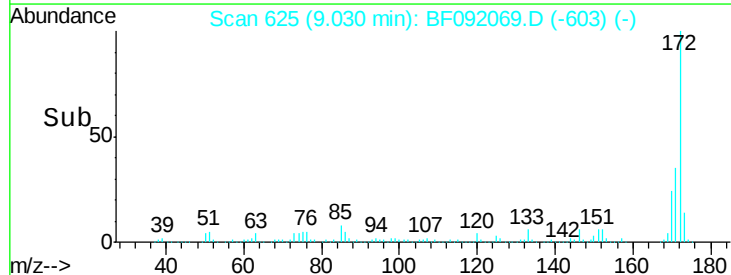
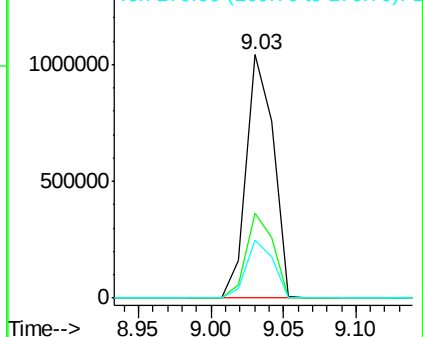


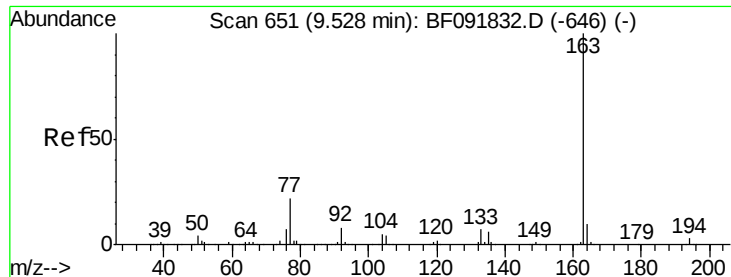
#44  
 2-Fluorobiphenyl  
 Concen: 71.77 ng  
 RT: 9.03 min Scan# 625  
 Delta R.T. -0.05 min  
 Lab File: BF092069.D  
 Acq: 3 Jan 2017 19:14

Tgt Ion:172 Resp: 1354400  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 29.4 44.0  
 170 23.8 20.2 30.4



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





#49

Dimethylphthalate

Concen: 5.68 ng

RT: 9.43 min Scan# 660

Delta R.T. -0.06 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

Instrument :

BNA\_F

ClientSampleId :

TP9-COMP9

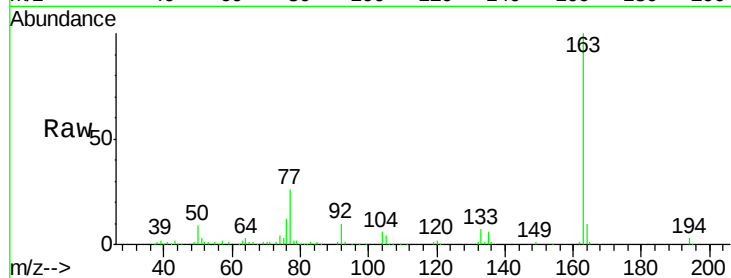
Tgt Ion:163 Resp: 136659

Ion Ratio Lower Upper

163 100

194 2.8 3.0 4.4#

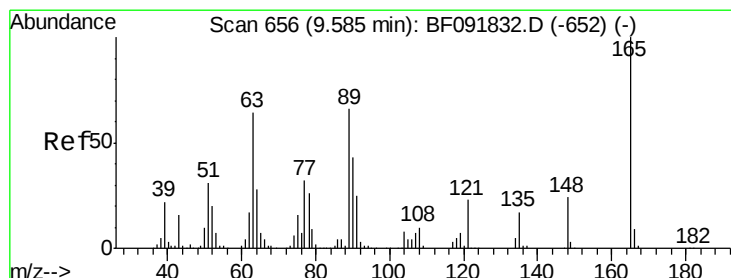
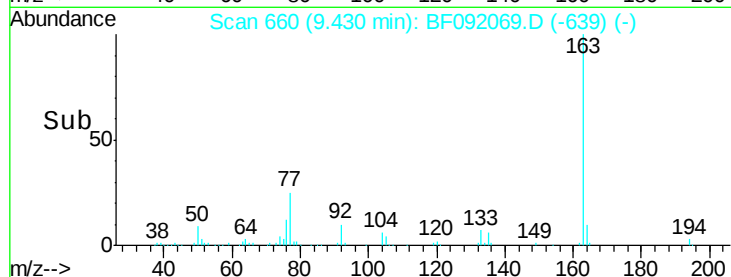
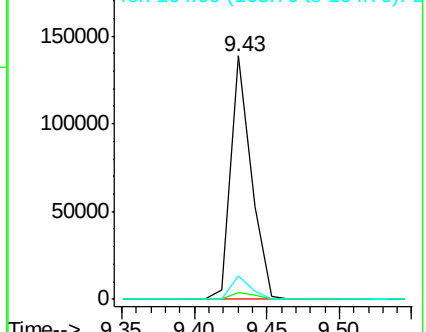
164 9.8 8.0 12.0



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



#50

2,6-Dinitrotoluene

Concen: 9.23 ng

RT: 9.70 min Scan# 684

Delta R.T. 0.15 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

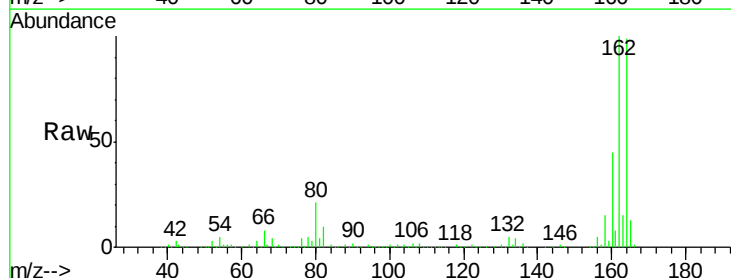
Tgt Ion:165 Resp: 48597

Ion Ratio Lower Upper

165 100

63 1.0 36.2 54.4#

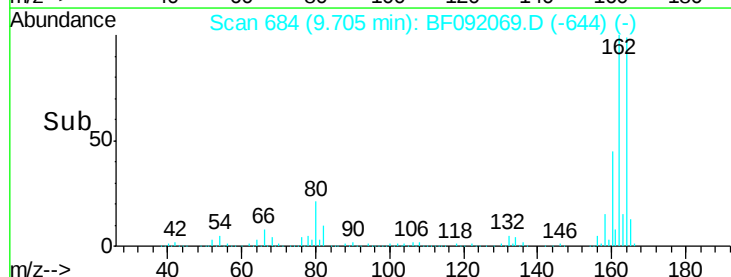
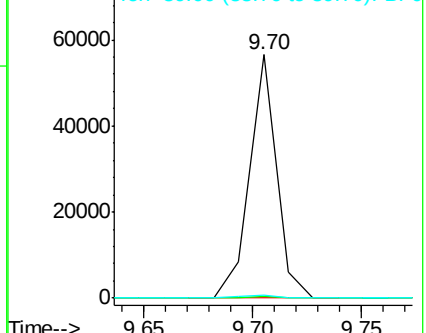
89 1.1 40.2 60.4#



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

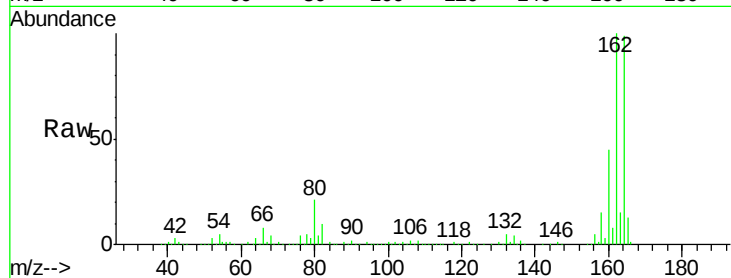




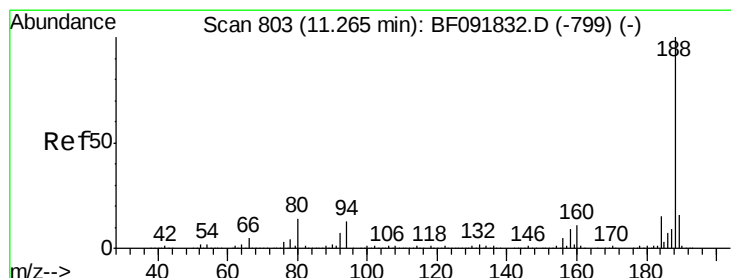
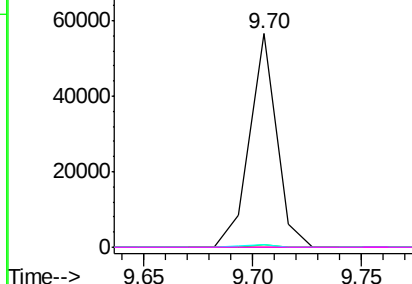
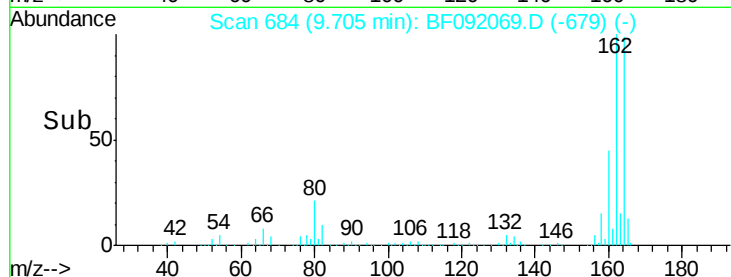
#56  
 2,4-Dinitrotoluene  
 Concen: 7.35 ng  
 RT: 9.70 min Scan# 684  
 Delta R.T. -0.25 min  
 Lab File: BF092069.D  
 Acq: 3 Jan 2017 19:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP9-COMP9

Tgt Ion:165 Resp: 48597  
 Ion Ratio Lower Upper  
 165 100  
 63 1.0 40.2 60.4#  
 89 1.1 62.5 93.7#  
 182 0.0 1.8 2.8#

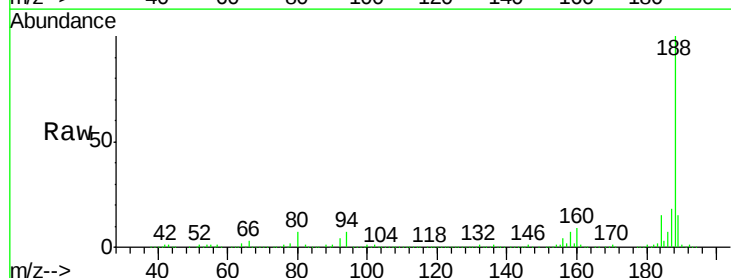


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

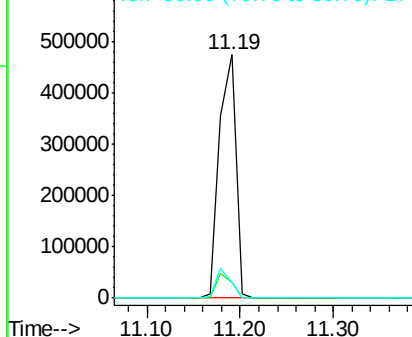
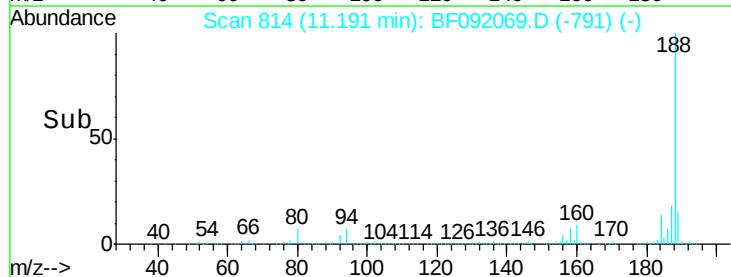


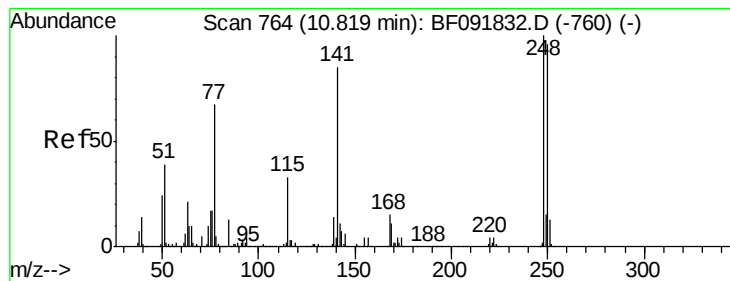
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.19 min Scan# 814  
 Delta R.T. -0.04 min  
 Lab File: BF092069.D  
 Acq: 3 Jan 2017 19:14

Tgt Ion:188 Resp: 585419  
 Ion Ratio Lower Upper  
 188 100  
 94 6.5 10.0 15.0#  
 80 6.7 11.2 16.8#



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: 3.27 ng

RT: 10.49 min Scan# 753

Delta R.T. -0.29 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

Instrument :

BNA\_F

ClientSampleId :

TP9-COMP9

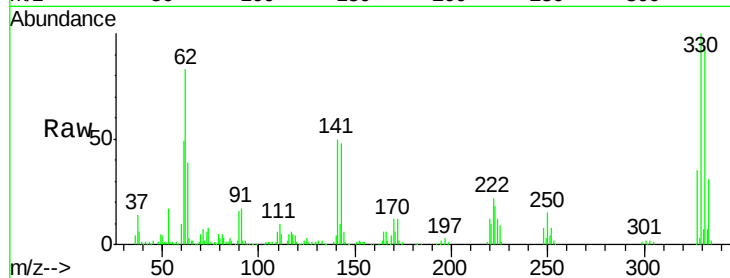
Tgt Ion:248 Resp: 19924

Ion Ratio Lower Upper

248 100

250 195.6 76.9 115.3#

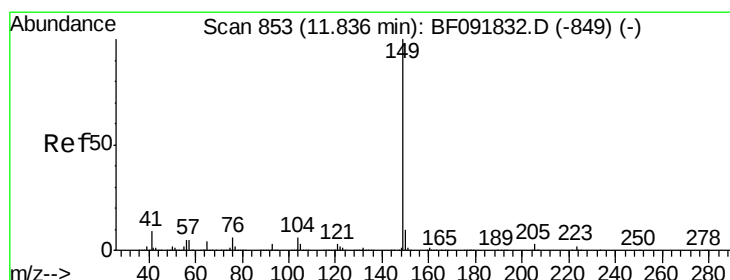
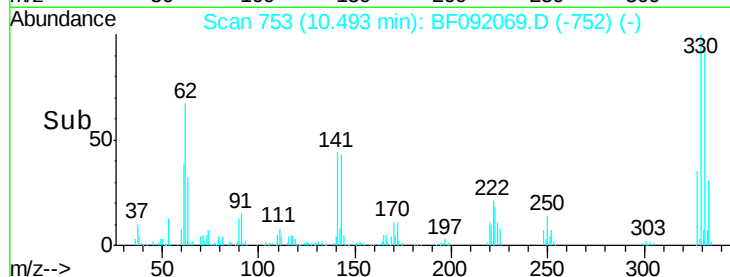
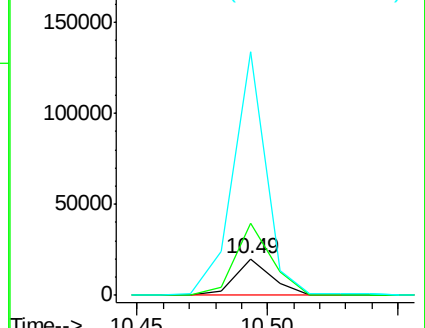
141 663.5 68.2 102.4#



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



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.76 min Scan# 864

Delta R.T. -0.04 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

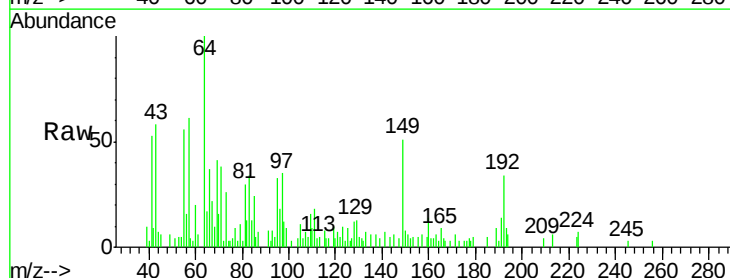
Tgt Ion:149 Resp: 7536

Ion Ratio Lower Upper

149 100

150 15.7 8.1 12.1#

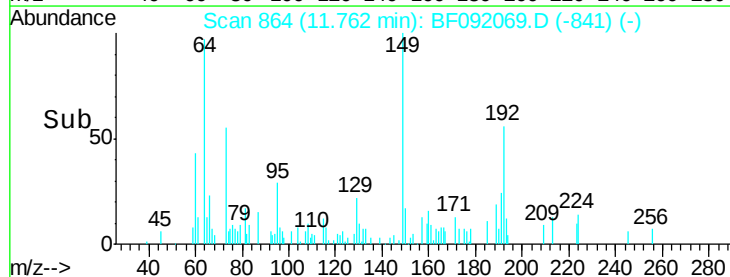
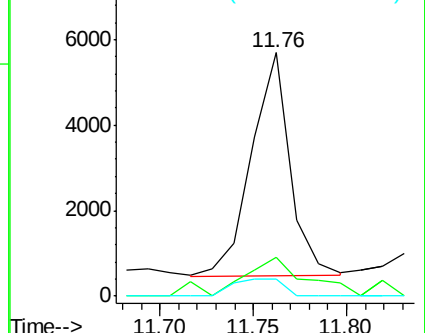
104 7.2 4.6 7.0#

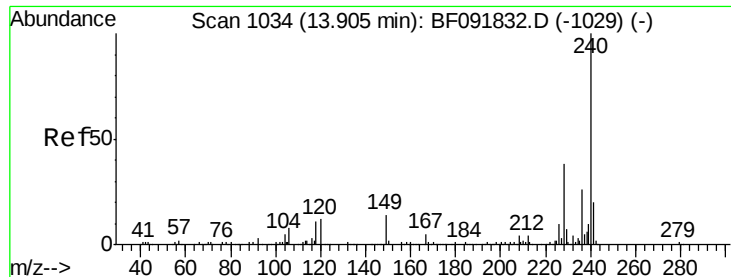


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.82 min Scan# 1044

Delta R.T. -0.05 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

Instrument :

BNA\_F

ClientSampleId :

TP9-COMP9

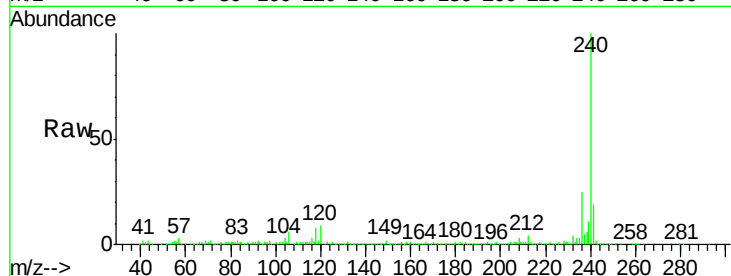
Tgt Ion:240 Resp: 389149

Ion Ratio Lower Upper

240 100

120 8.8 12.9 19.3#

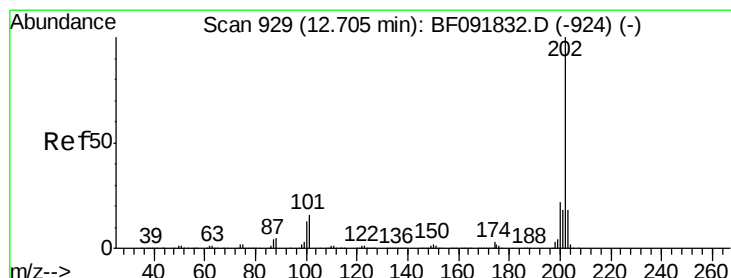
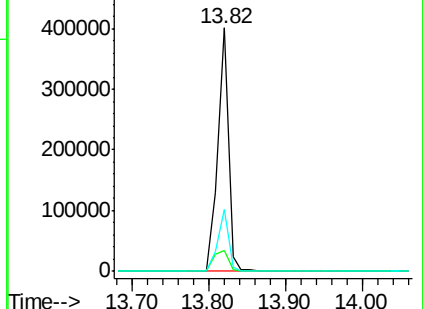
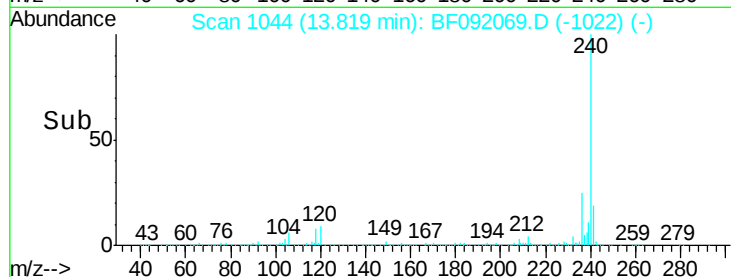
236 25.4 20.9 31.3



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: 2.98 ng

RT: 12.62 min Scan# 939

Delta R.T. -0.05 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

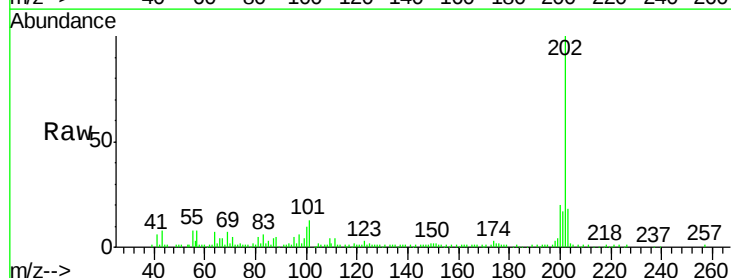
Tgt Ion:202 Resp: 84958

Ion Ratio Lower Upper

202 100

200 20.3 17.7 26.5

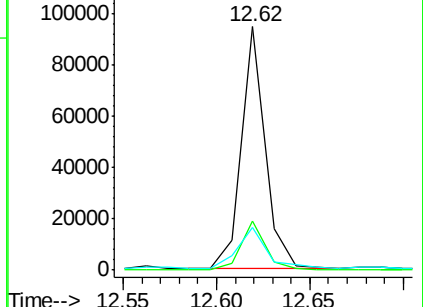
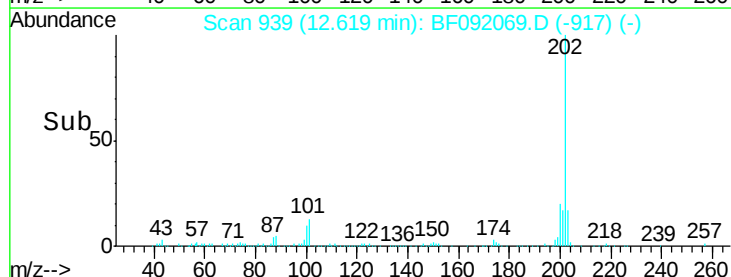
203 17.7 14.7 22.1

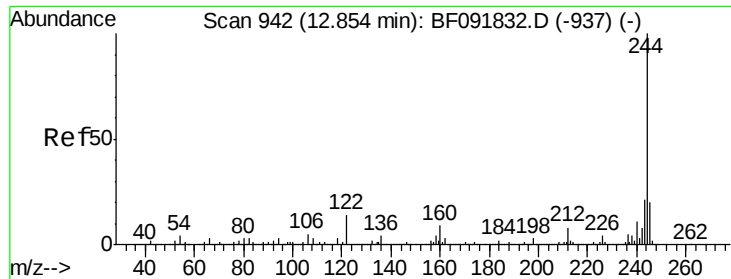


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

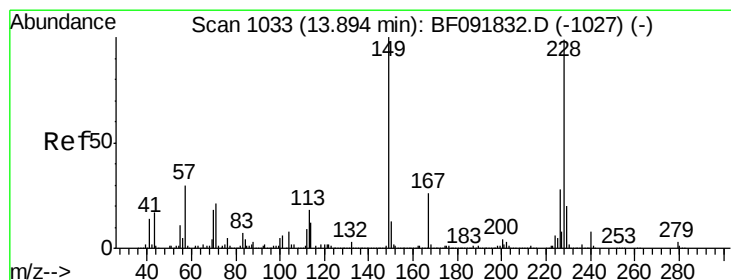
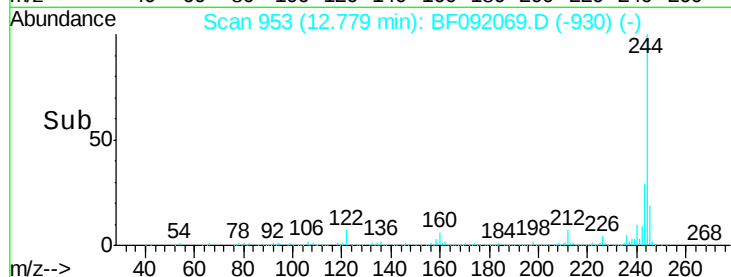
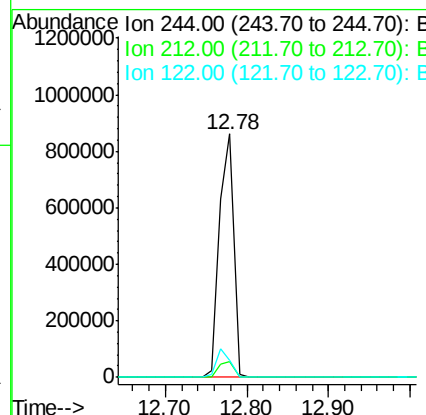
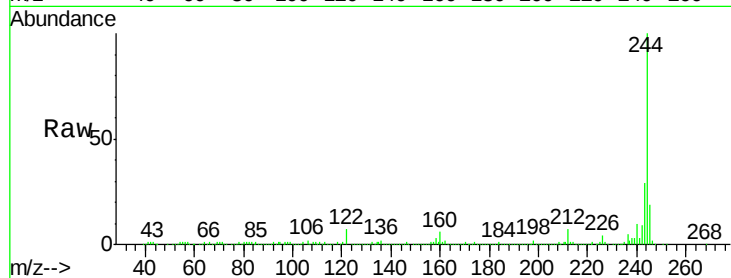




#78  
 Terphenyl-d14  
 Concen: 65.77 ng  
 RT: 12.78 min Scan# 953  
 Delta R.T. -0.04 min  
 Lab File: BF092069.D  
 Acq: 3 Jan 2017 19:14

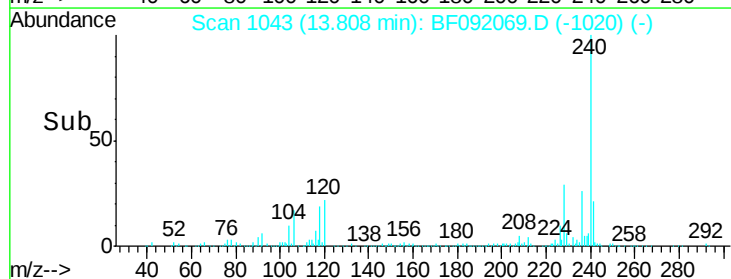
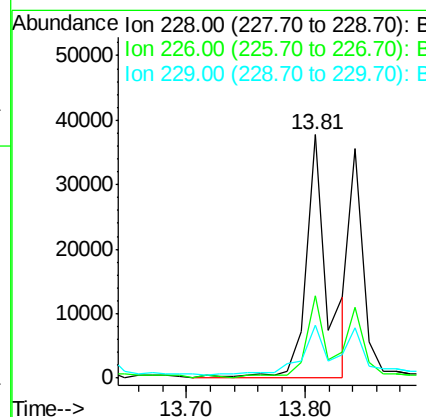
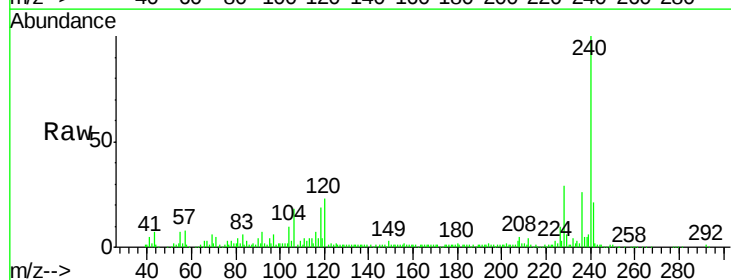
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP9-COMP9

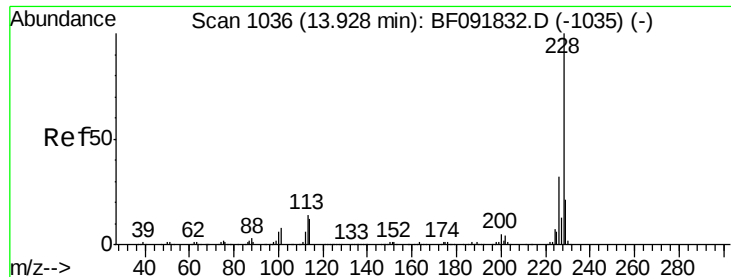
Tgt Ion:244 Resp: 1055331  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 6.2 9.2  
 122 6.9 11.4 17.2#



#80  
 Benzo(a)anthracene  
 Concen: 2.14 ng  
 RT: 13.81 min Scan# 1043  
 Delta R.T. -0.04 min  
 Lab File: BF092069.D  
 Acq: 3 Jan 2017 19:14

Tgt Ion:228 Resp: 46994  
 Ion Ratio Lower Upper  
 228 100  
 226 33.9 22.4 33.6#  
 229 21.6 16.2 24.4





#82

Chrysene

Concen: 2.13 ng

RT: 13.81 min Scan# 1043

Delta R.T. -0.09 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

Instrument :

BNA\_F

ClientSampleId :

TP9-COMP9

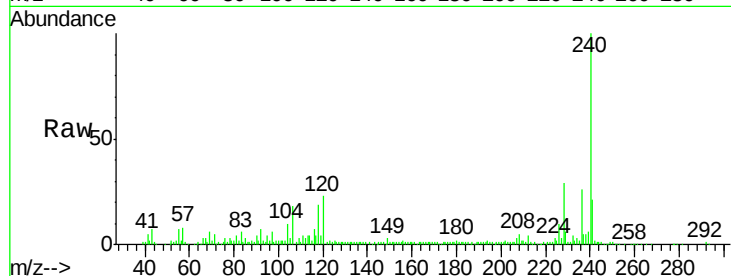
Tgt Ion:228 Resp: 46994

Ion Ratio Lower Upper

228 100

226 33.9 25.4 38.0

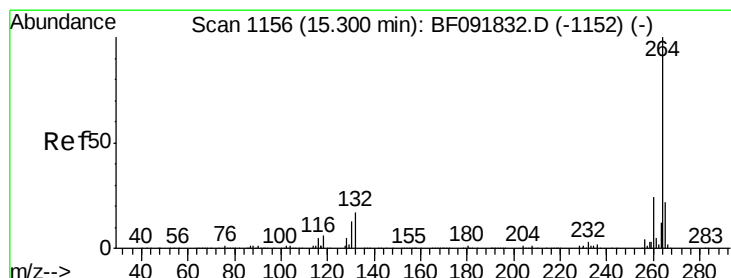
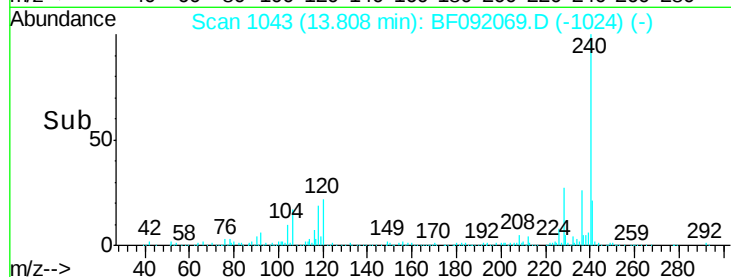
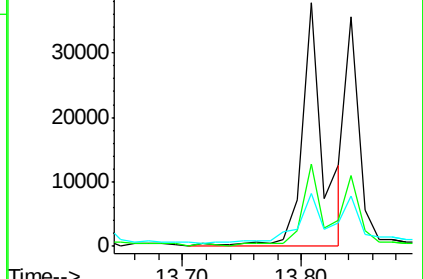
229 21.6 16.2 24.2



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.19 min Scan# 1164

Delta R.T. -0.06 min

Lab File: BF092069.D

Acq: 3 Jan 2017 19:14

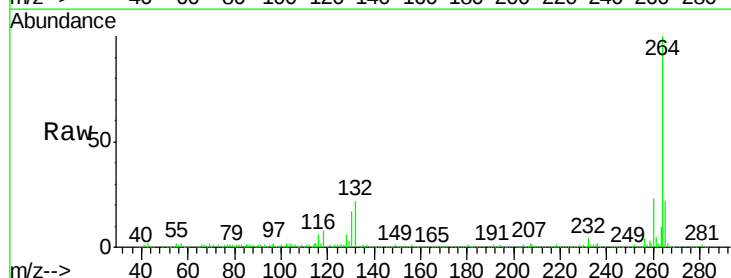
Tgt Ion:264 Resp: 363541

Ion Ratio Lower Upper

264 100

260 22.7 19.2 28.8

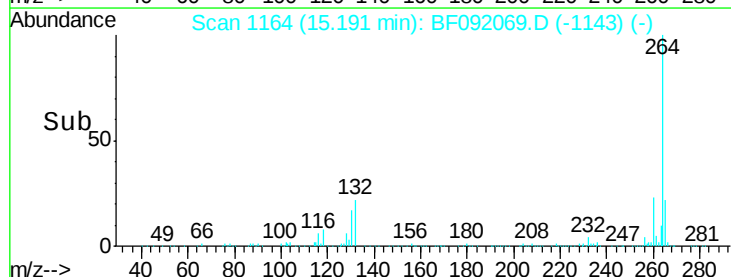
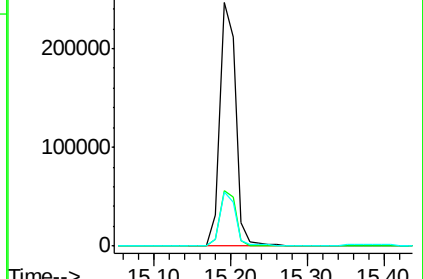
265 22.1 17.4 26.0

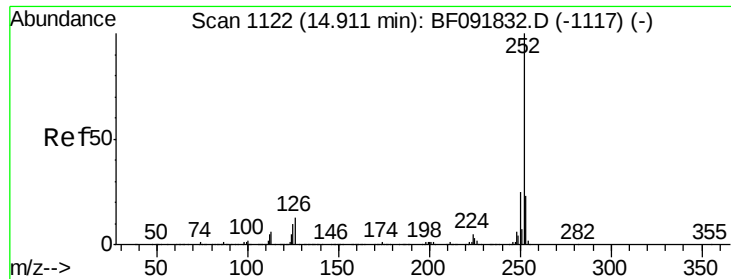


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

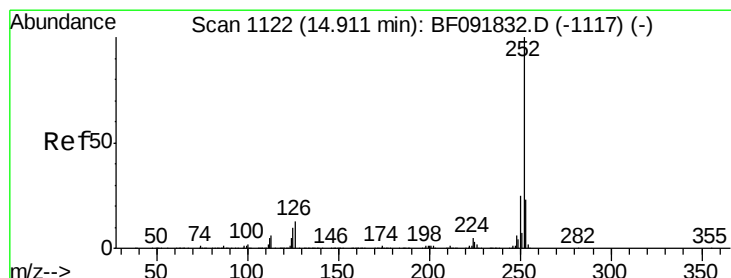
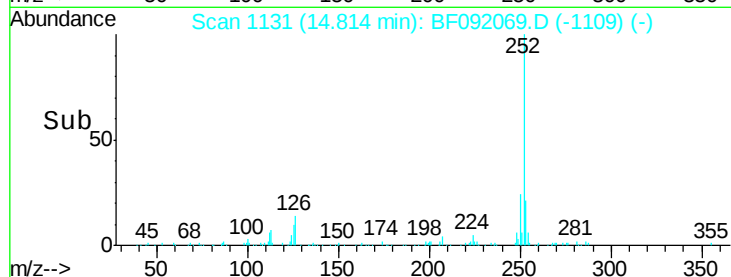
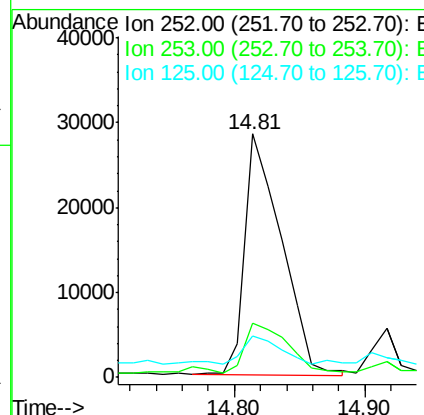
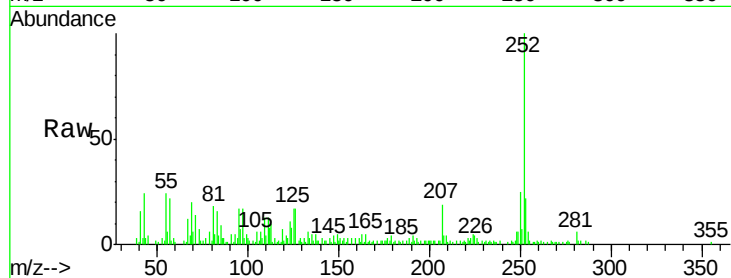




#87  
Benzo(b)fluoranthene  
Concen: 2.45 ng  
RT: 14.81 min Scan# 1131  
Delta R.T. -0.05 min  
Lab File: BF092069.D  
Acq: 3 Jan 2017 19:14

Instrument :  
BNA\_F  
ClientSampleId :  
TP9-COMP9

Tgt Ion:252 Resp: 55521  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.2 27.4  
125 17.1 9.8 14.6#



#88  
Benzo(k)fluoranthene  
Concen: 2.88 ng  
RT: 14.81 min Scan# 1131  
Delta R.T. -0.07 min  
Lab File: BF092069.D  
Acq: 3 Jan 2017 19:14

Tgt Ion:252 Resp: 55521  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.5 27.7  
125 17.1 8.9 13.3#

