

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092216\  
 Data File : BF090193.D  
 Acq On : 22 Sep 2016 18:09  
 Operator : UM/SJ  
 Sample : H4856-14RE 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-2

Quant Time: Sep 23 00:55:45 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 20 17:58:29 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.65  | 152  | 76507    | 20.00 | ng    | 0.13     |
| 21) Naphthalene-d8        | 0.00  | 136  | 0        | 0.00  | ng    | -7.82    |
| 38) Acenaphthene-d10      | 9.53  | 164  | 224056   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 10.99 | 188  | 269700   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 13.61 | 240  | 268530   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 14.94 | 264  | 274570   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.05  | 112  | 147745   | 31.48 | ng    | -0.02    |
| 7) Phenol-d6                | 6.15  | 99   | 208444   | 35.96 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.06  | 82   | 115450   | 0.00  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.31 | 330  | 31856    | 16.57 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 8.87  | 172  | 206669   | 18.11 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.58 | 244  | 113799   | 10.76 | ng    | -0.02    |

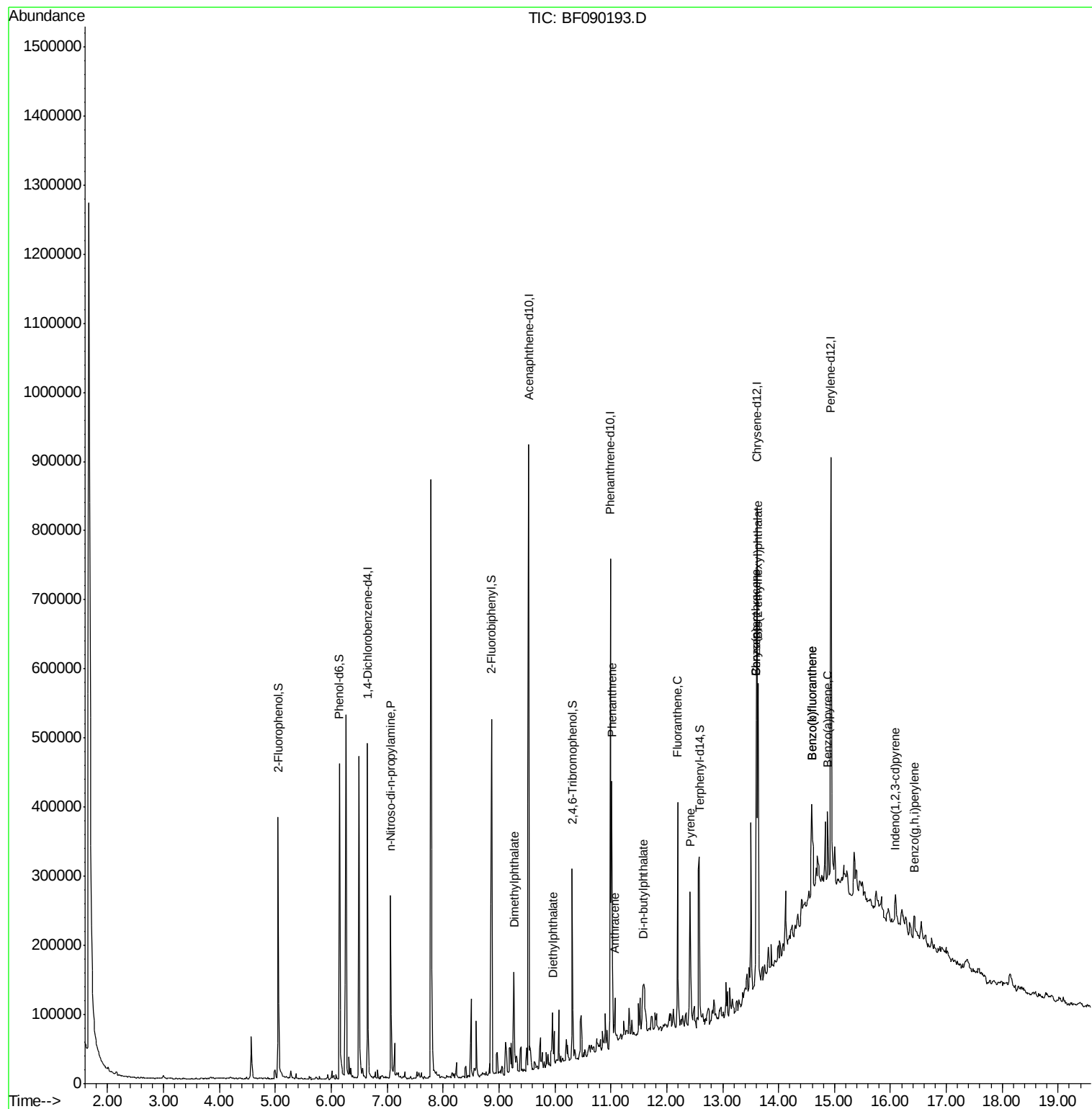
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.06  | 70   | 13472    | 3.96  | ng    | # 83   |
| 49) Dimethylphthalate          | 9.27  | 163  | 67302    | 4.72  | ng    | 100    |
| 59) Diethylphthalate           | 9.96  | 149  | 53361    | 3.87  | ng    | 97     |
| 70) Phenanthrene               | 11.02 | 178  | 141433   | 11.21 | ng    | 99     |
| 71) Anthracene                 | 11.07 | 178  | 34472    | 2.61  | ng    | 99     |
| 73) Di-n-butylphthalate        | 11.59 | 149  | 53028    | 3.26  | ng    | # 99   |
| 74) Fluoranthene               | 12.19 | 202  | 128500   | 9.49  | ng    | 97     |
| 77) Pyrene                     | 12.42 | 202  | 107139   | 5.83  | ng    | 98     |
| 80) Benzo(a)anthracene         | 13.60 | 228  | 60892    | 4.21  | ng    | 92     |
| 82) Chrysene                   | 13.60 | 228  | 60892    | 4.33  | ng    | 96     |
| 83) Bis(2-ethylhexyl)phthalate | 13.63 | 149  | 98169    | 8.53  | ng    | # 98   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.09 | 276  | 27330    | 2.40  | ng    | 95     |
| 87) Benzo(b)fluoranthene       | 14.59 | 252  | 87618    | 5.76  | ng    | 99     |
| 88) Benzo(k)fluoranthene       | 14.59 | 252  | 87618    | 6.14  | ng    | # 94   |
| 89) Benzo(a)pyrene             | 14.88 | 252  | 45998    | 3.22  | ng    | # 84   |
| 91) Benzo(g,h,i)perylene       | 16.43 | 276  | 24205    | 2.22  | ng    | 96     |

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

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092016.M  
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QLast Update : Tue Sep 20 17:58:29 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.65 min Scan# 443

Delta R.T. 0.13 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SS-2

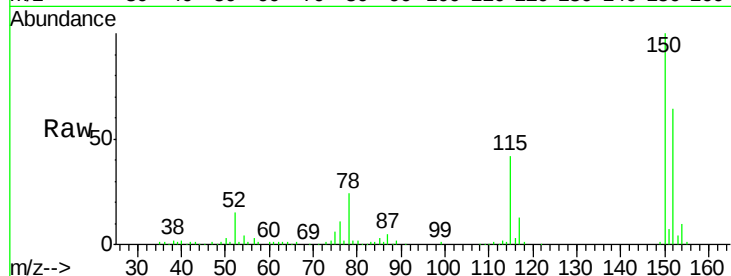
Tgt Ion:152 Resp: 76507

Ion Ratio Lower Upper

152 100

150 156.4 128.9 193.3

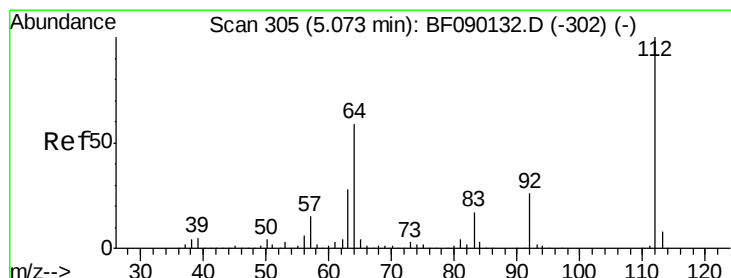
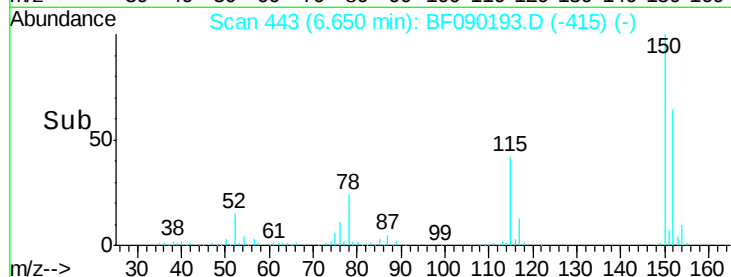
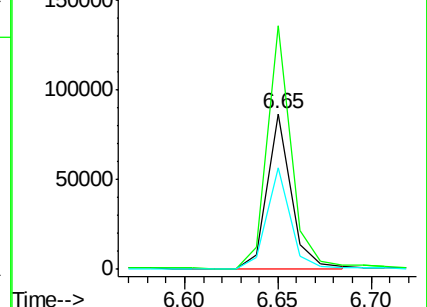
115 65.6 55.5 83.3



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: 31.48 ng

RT: 5.05 min Scan# 303

Delta R.T. -0.02 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

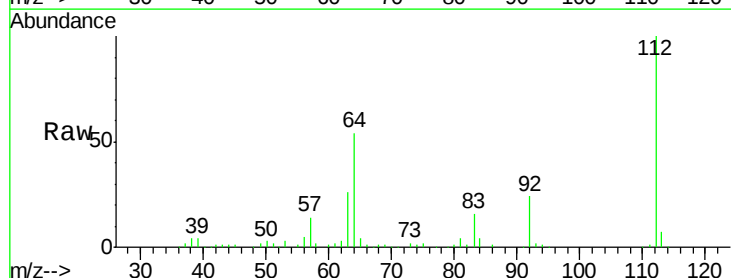
Tgt Ion:112 Resp: 147745

Ion Ratio Lower Upper

112 100

64 53.9 39.8 59.6

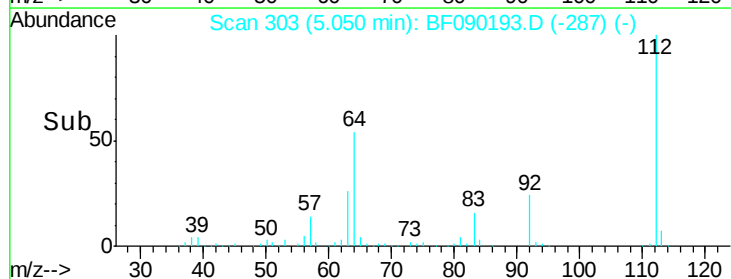
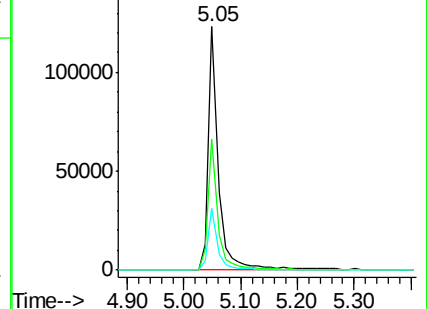
63 25.5 18.9 28.3



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: 35.96 ng

RT: 6.15 min Scan# 399

Delta R.T. -0.02 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SS-2

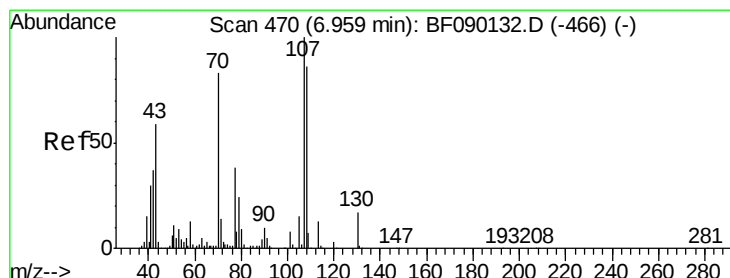
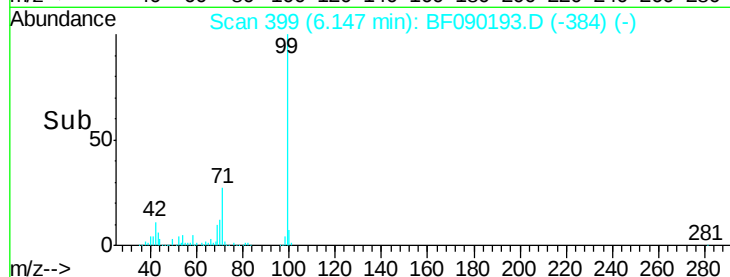
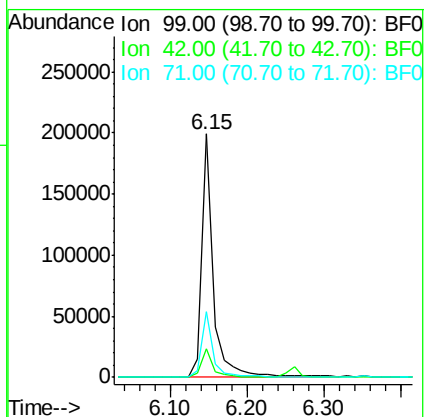
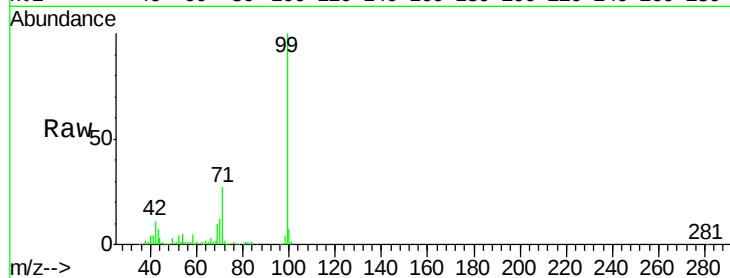
Tgt Ion: 99 Resp: 208444

Ion Ratio Lower Upper

99 100

42 11.5 10.6 15.8

71 26.7 23.0 34.6



#19

n-Nitroso-di-n-propylamine

Concen: 3.96 ng

RT: 7.06 min Scan# 479

Delta R.T. 0.10 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

Tgt Ion: 70 Resp: 13472

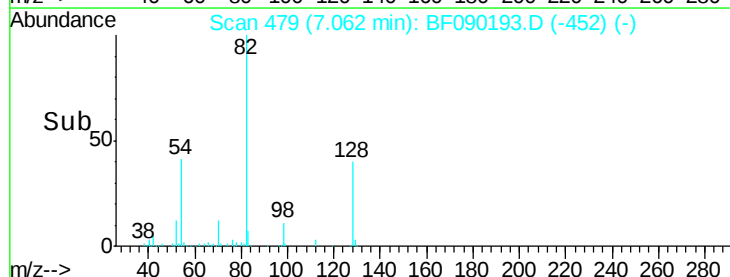
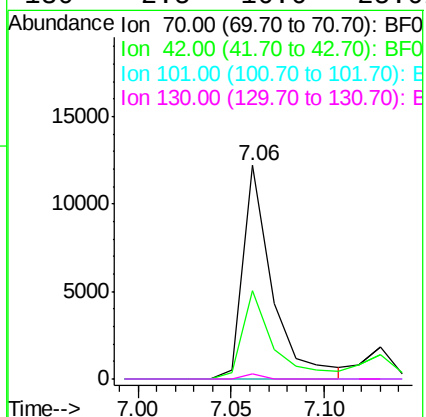
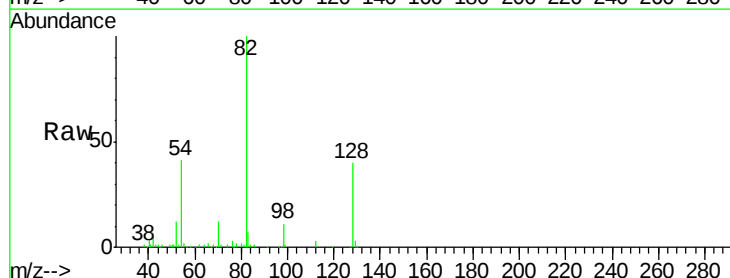
Ion Ratio Lower Upper

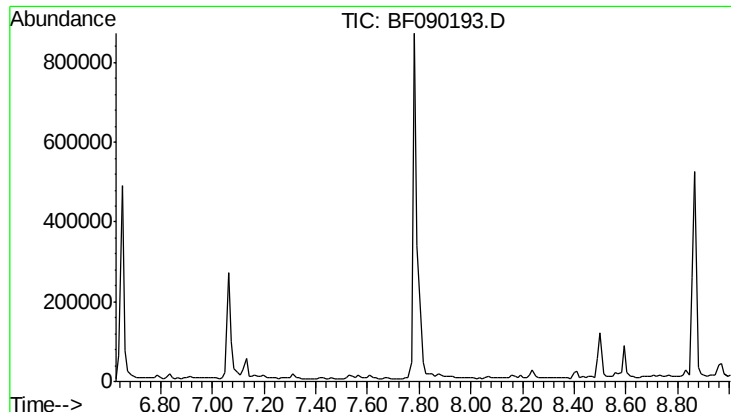
70 100

42 41.2 35.1 52.7

101 0.0 7.5 11.3#

130 2.5 16.6 25.0#

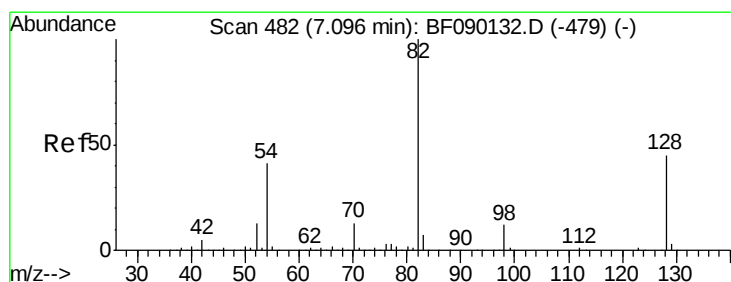
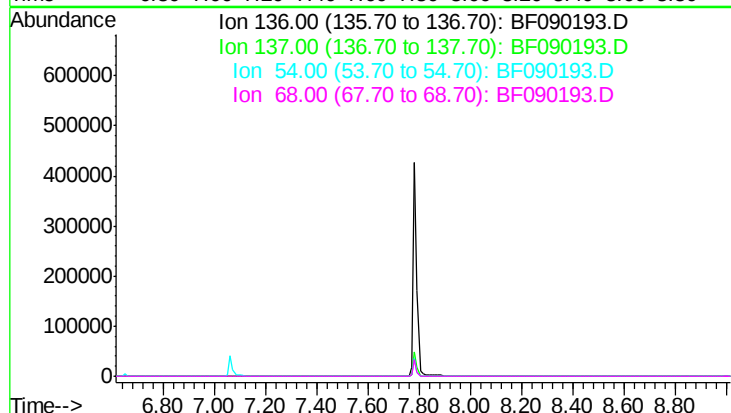




#21  
Naphthalene-d8  
Concen: 0.00 ng  
Expected RT: 7.82 min  
Lab File: BF090193.D  
Acq: 22 Sep 2016 18:09

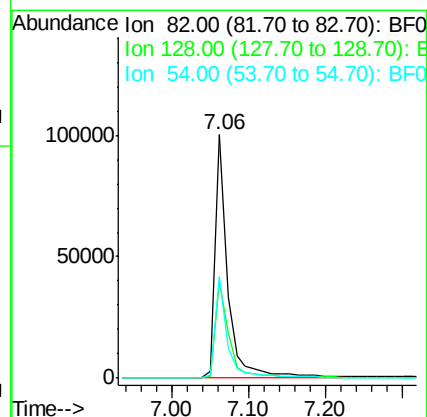
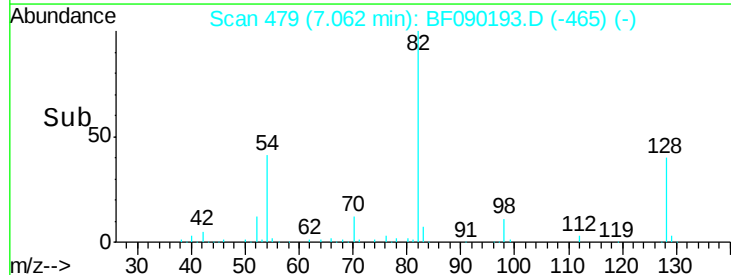
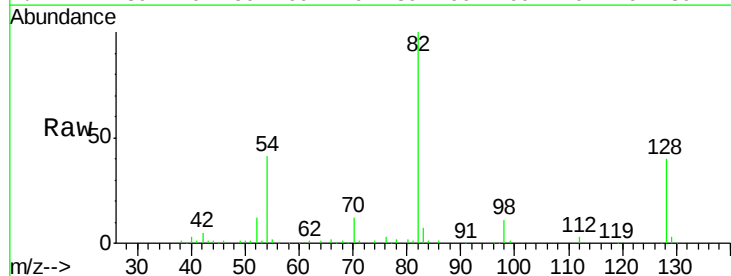
Instrument :  
BNA\_F  
ClientSampleId :  
SS-2

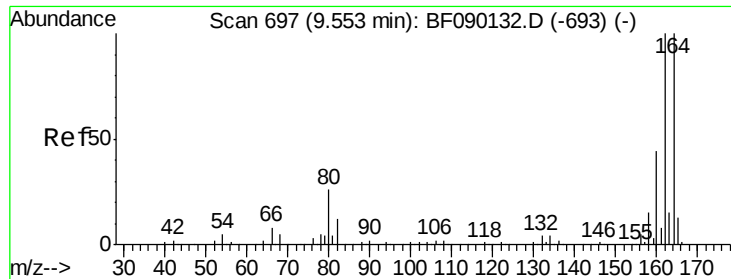
Tgt Ion: 136  
Sig Exp Ratio  
136 100  
137 11.2  
54 8.0  
68 7.9



#23  
Nitrobenzene-d5  
Concen: 0.00 ng  
RT: 7.06 min Scan# 479  
Delta R.T. -0.03 min  
Lab File: BF090193.D  
Acq: 22 Sep 2016 18:09

Tgt Ion: 82 Resp: 115450  
Ion Ratio Lower Upper  
82 100  
128 39.8 37.5 56.3  
54 41.5 31.9 47.9

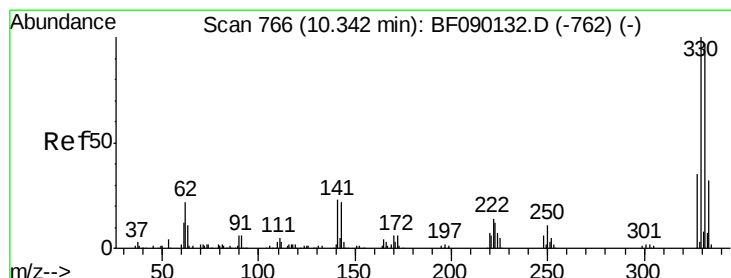
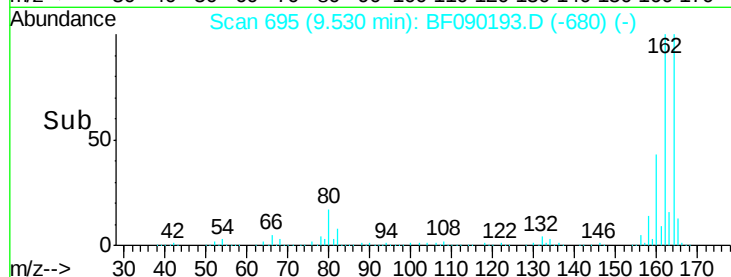
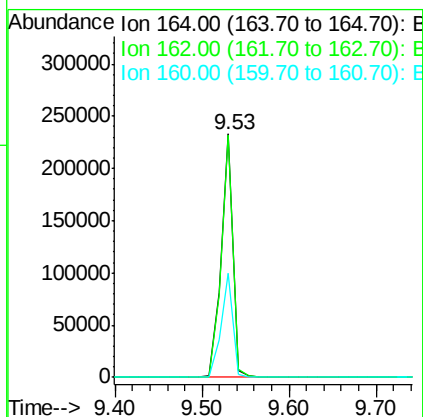
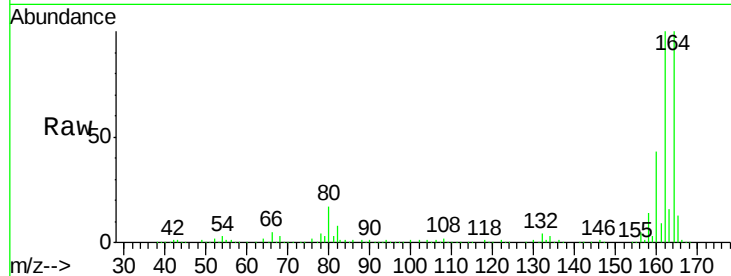




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.53 min Scan# 695  
 Delta R.T. -0.02 min  
 Lab File: BF090193.D  
 Acq: 22 Sep 2016 18:09

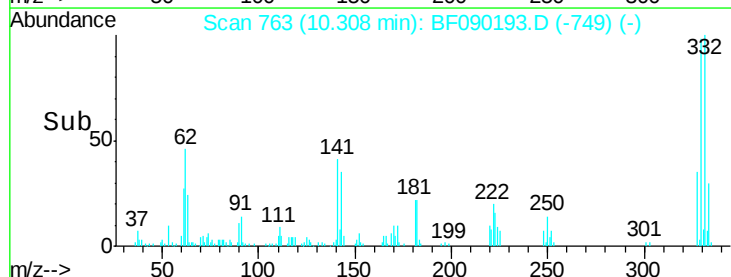
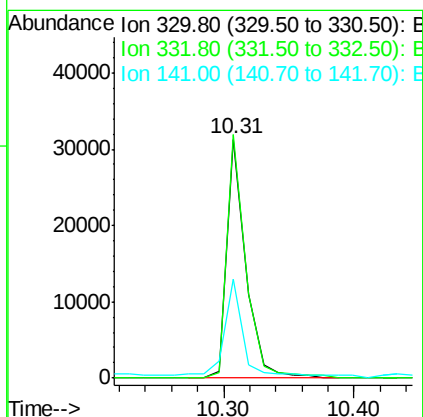
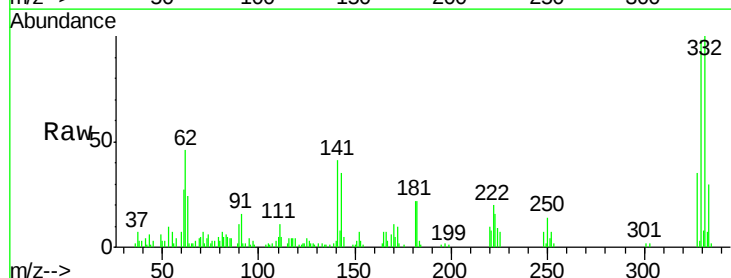
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-2

Tgt Ion:164 Resp: 224056  
 Ion Ratio Lower Upper  
 164 100  
 162 99.7 81.4 122.2  
 160 42.7 36.6 54.8



#41  
 2,4,6-Tribromophenol  
 Concen: 16.57 ng  
 RT: 10.31 min Scan# 763  
 Delta R.T. -0.03 min  
 Lab File: BF090193.D  
 Acq: 22 Sep 2016 18:09

Tgt Ion:330 Resp: 31856  
 Ion Ratio Lower Upper  
 330 100  
 332 101.3 78.1 117.1  
 141 46.1 23.9 35.9#

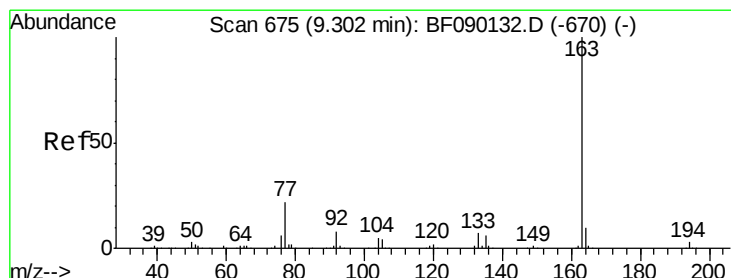
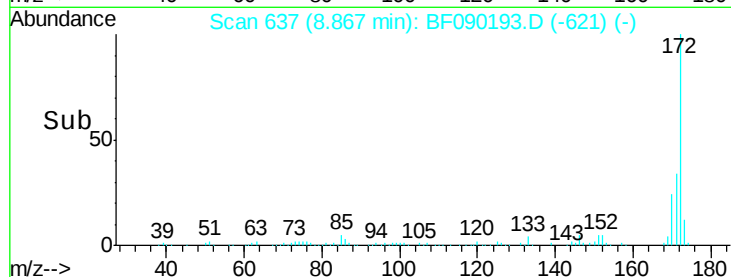
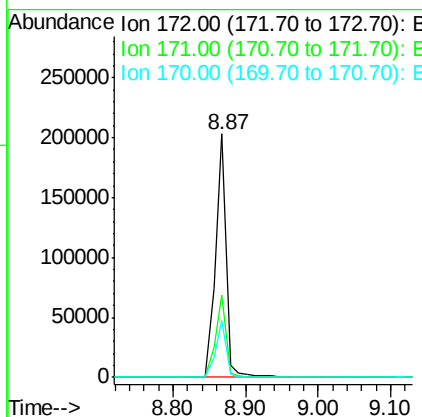
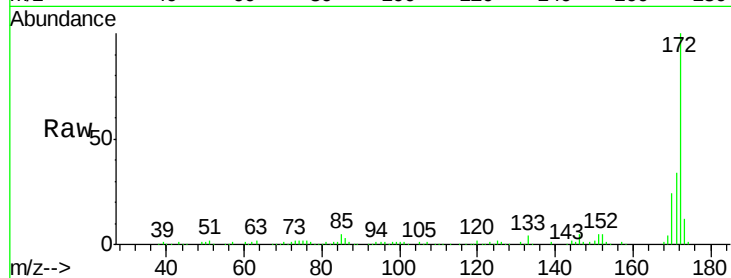




#44  
 2-Fluorobiphenyl  
 Concen: 18.11 ng  
 RT: 8.87 min Scan# 637  
 Delta R.T. -0.02 min  
 Lab File: BF090193.D  
 Acq: 22 Sep 2016 18:09

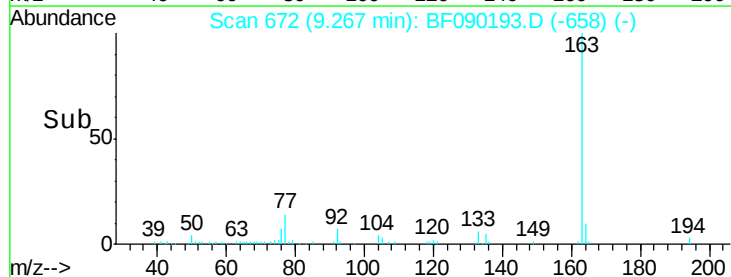
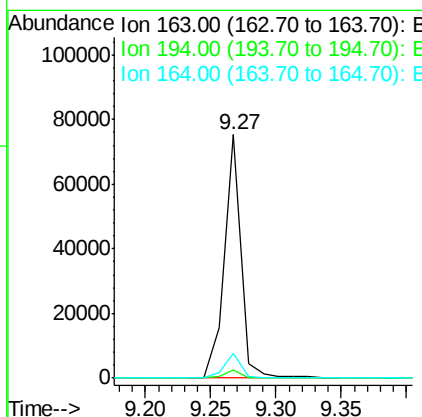
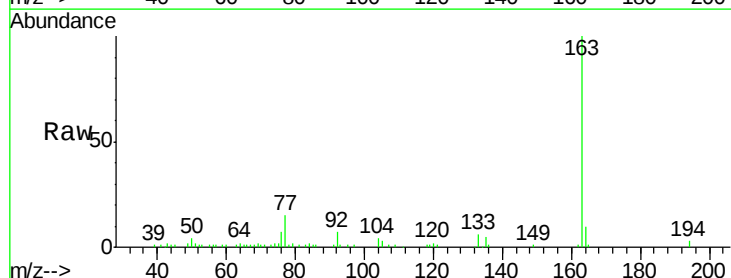
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-2

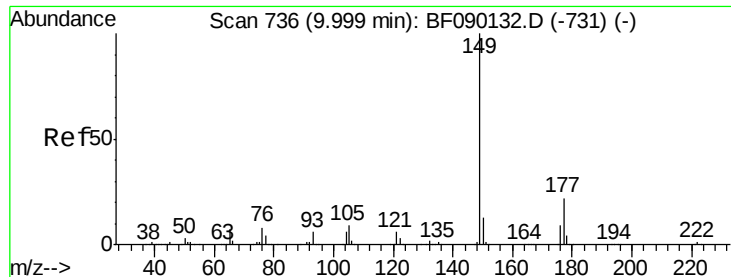
Tgt Ion:172 Resp: 206669  
 Ion Ratio Lower Upper  
 172 100  
 171 34.0 29.2 43.8  
 170 23.5 19.8 29.8



#49  
 Dimethylphthalate  
 Concen: 4.72 ng  
 RT: 9.27 min Scan# 672  
 Delta R.T. -0.03 min  
 Lab File: BF090193.D  
 Acq: 22 Sep 2016 18:09

Tgt Ion:163 Resp: 67302  
 Ion Ratio Lower Upper  
 163 100  
 194 3.4 2.8 4.2  
 164 10.0 8.1 12.1

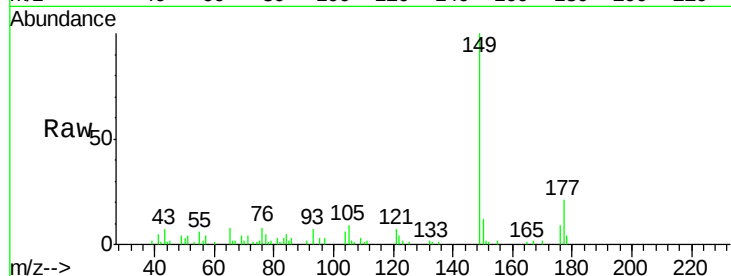




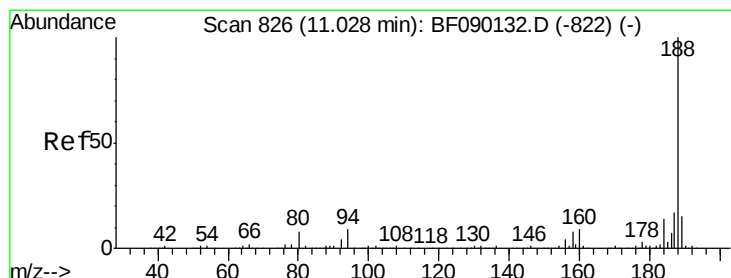
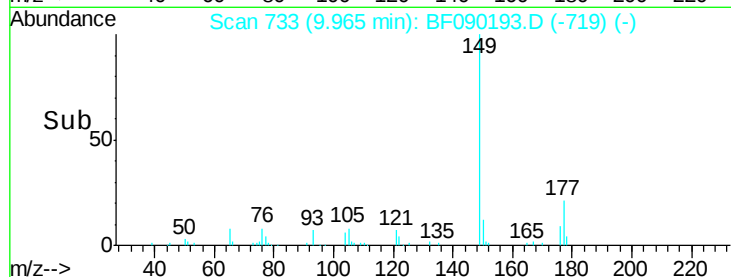
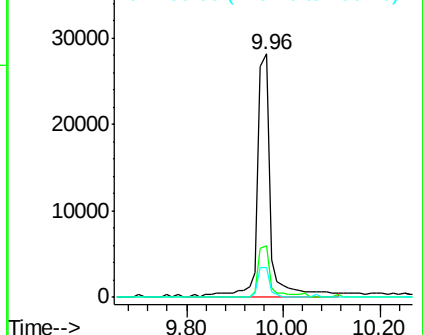
#59  
Diethylphthalate  
Concen: 3.87 ng  
RT: 9.96 min Scan# 733  
Delta R.T. -0.03 min  
Lab File: BF090193.D  
Acq: 22 Sep 2016 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
SS-2

Tgt Ion:149 Resp: 53361  
Ion Ratio Lower Upper  
149 100  
177 21.4 15.8 23.6  
150 12.1 10.4 15.6

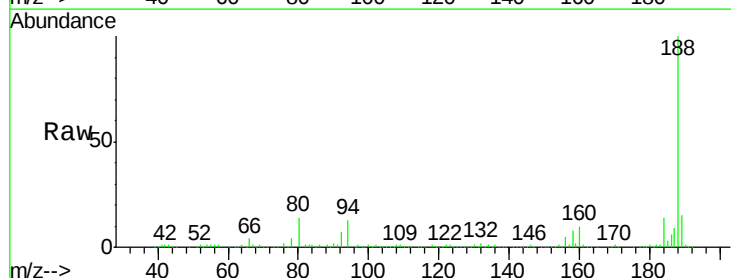


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

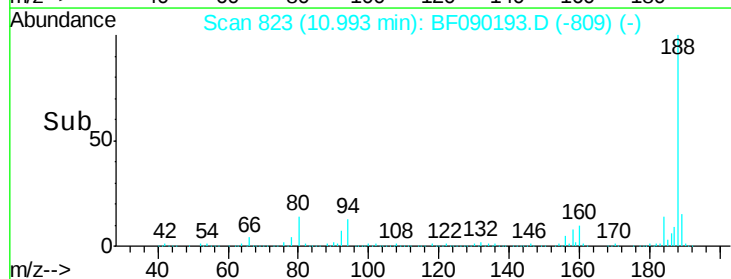
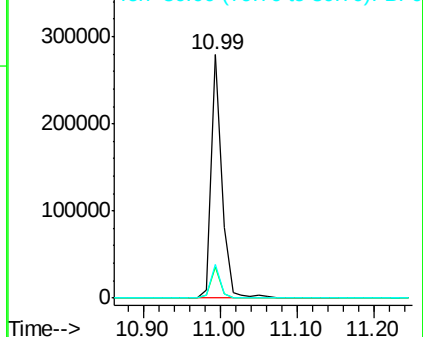


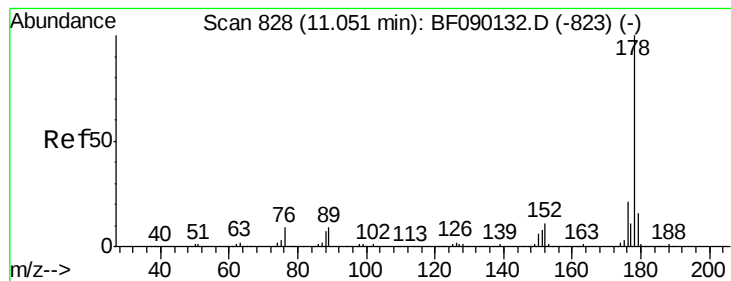
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.99 min Scan# 823  
Delta R.T. -0.03 min  
Lab File: BF090193.D  
Acq: 22 Sep 2016 18:09

Tgt Ion:188 Resp: 269700  
Ion Ratio Lower Upper  
188 100  
94 12.9 10.5 15.7  
80 13.8 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





#70

Phenanthrene

Concen: 11.21 ng

RT: 11.02 min Scan# 825

Delta R.T. -0.03 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SS-2

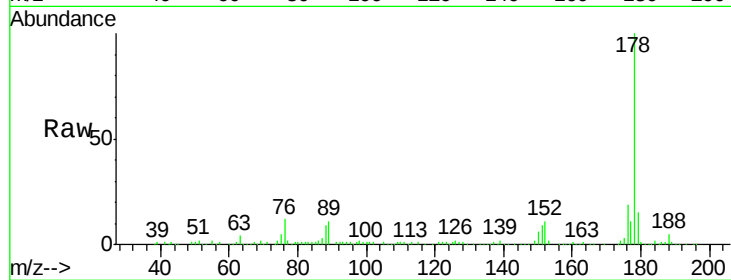
Tgt Ion:178 Resp: 141433

Ion Ratio Lower Upper

178 100

176 19.3 15.9 23.9

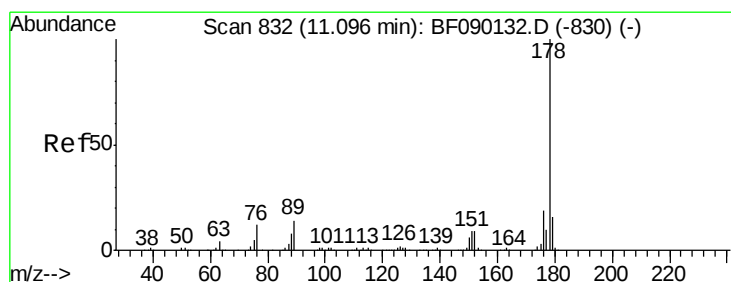
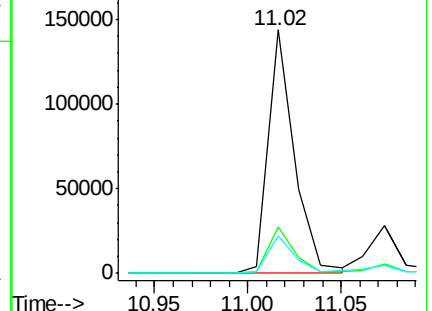
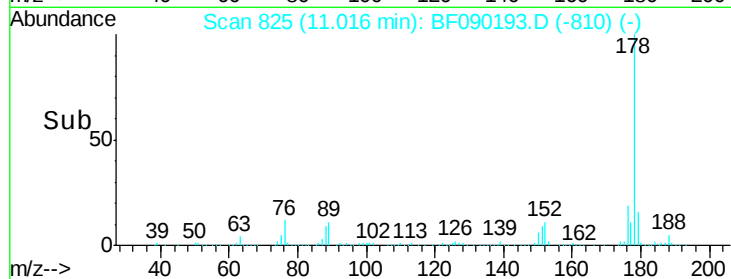
179 15.5 12.9 19.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.61 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.02 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

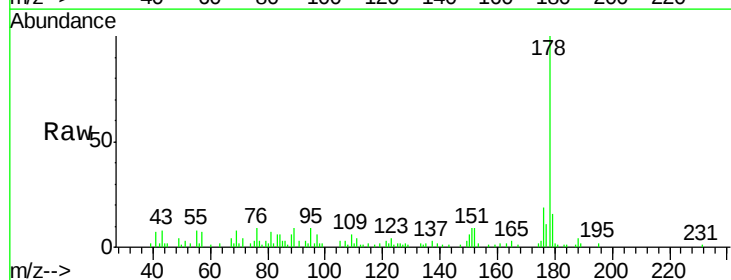
Tgt Ion:178 Resp: 34472

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.6

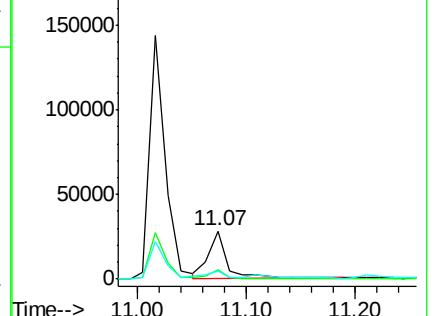
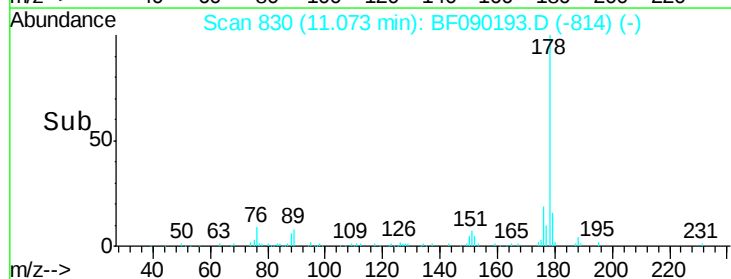
179 16.0 12.6 19.0

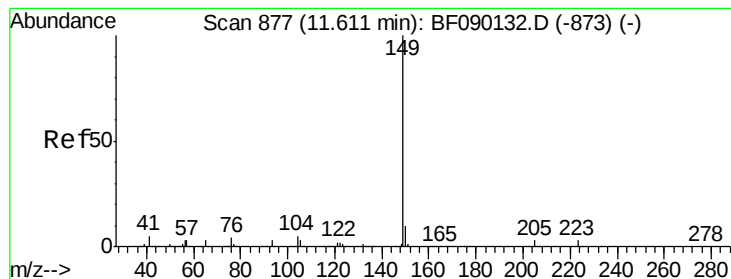


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: 3.26 ng

RT: 11.59 min Scan# 875

Delta R.T. -0.02 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SS-2

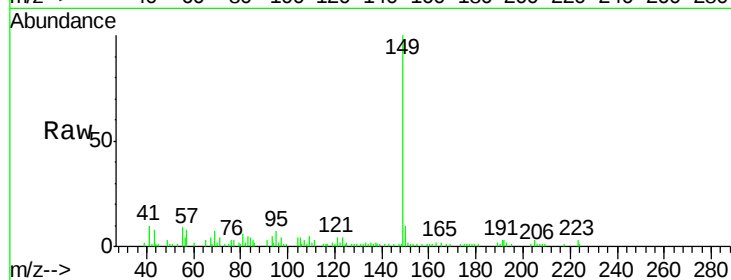
Tgt Ion:149 Resp: 53028

Ion Ratio Lower Upper

149 100

150 10.0 7.8 11.8

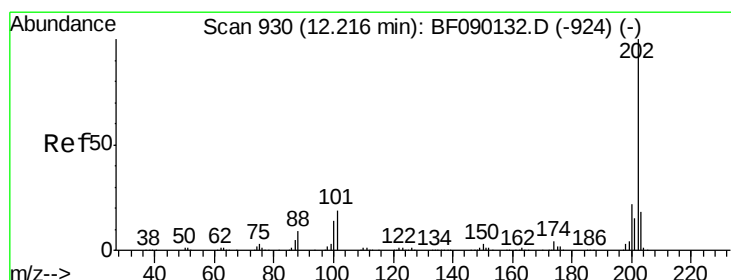
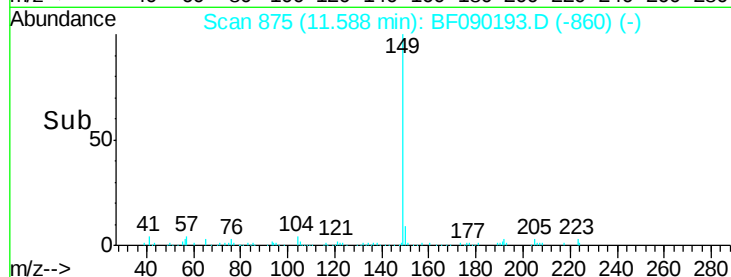
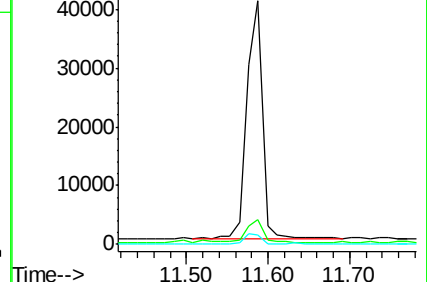
104 3.8 3.9 5.9#



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



#74

Fluoranthene

Concen: 9.49 ng

RT: 12.19 min Scan# 928

Delta R.T. -0.02 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

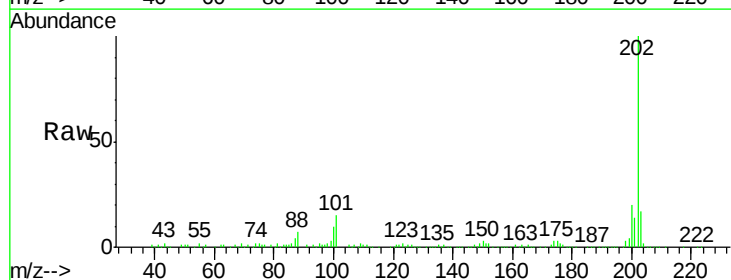
Tgt Ion:202 Resp: 128500

Ion Ratio Lower Upper

202 100

101 14.7 0.0 36.1

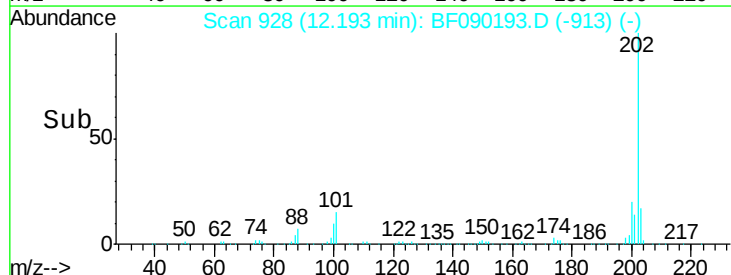
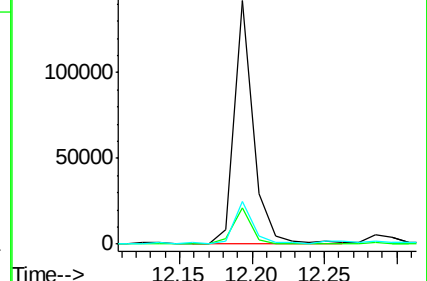
203 17.4 0.0 38.2

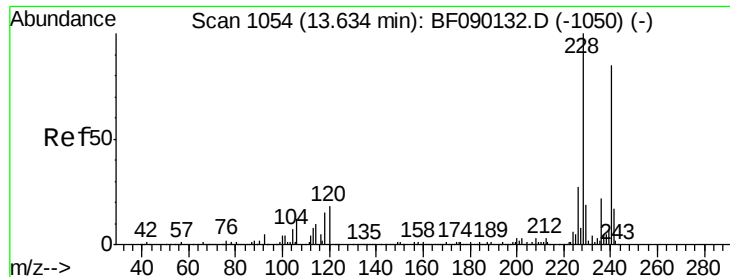


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.61 min Scan# 1052

Delta R.T. -0.02 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SS-2

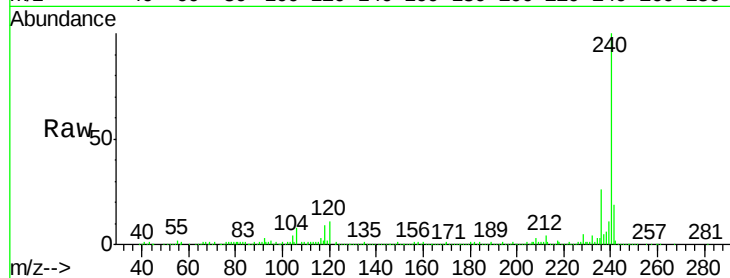
Tgt Ion:240 Resp: 268530

Ion Ratio Lower Upper

240 100

120 11.3 10.6 16.0

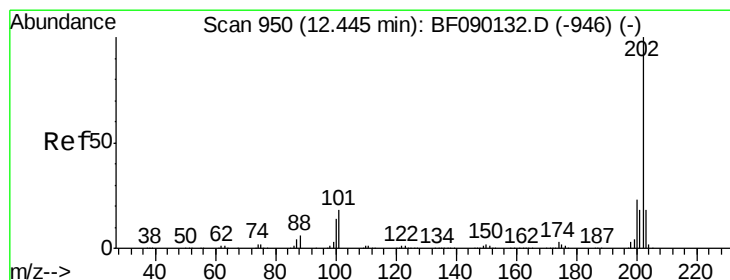
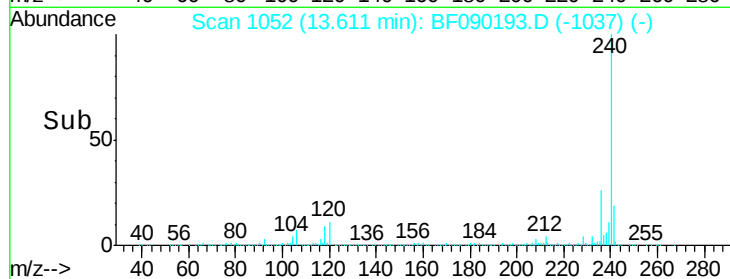
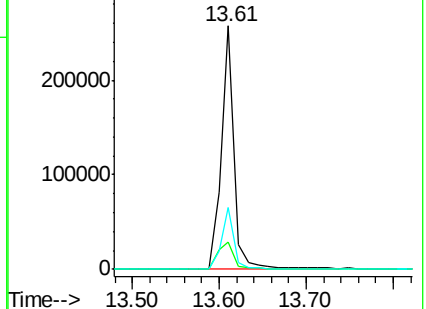
236 25.6 21.6 32.4



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: 5.83 ng

RT: 12.42 min Scan# 948

Delta R.T. -0.02 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

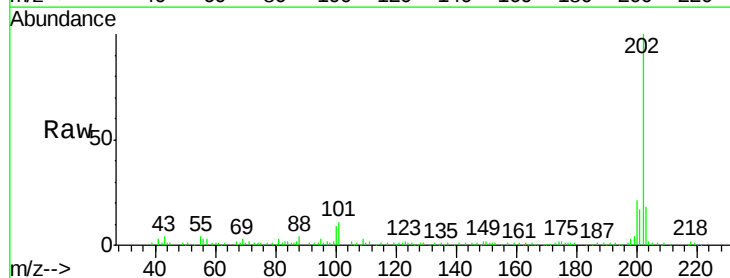
Tgt Ion:202 Resp: 107139

Ion Ratio Lower Upper

202 100

200 20.7 17.9 26.9

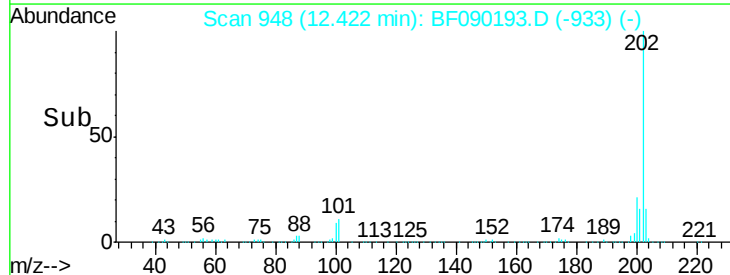
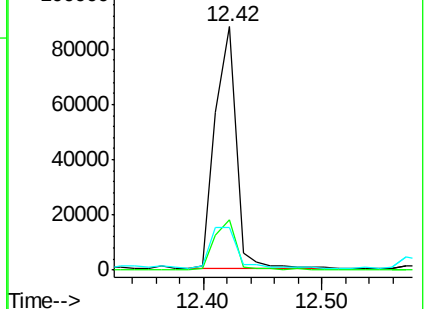
203 17.5 14.2 21.4

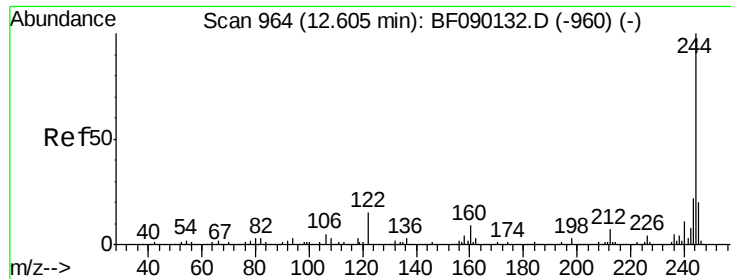


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

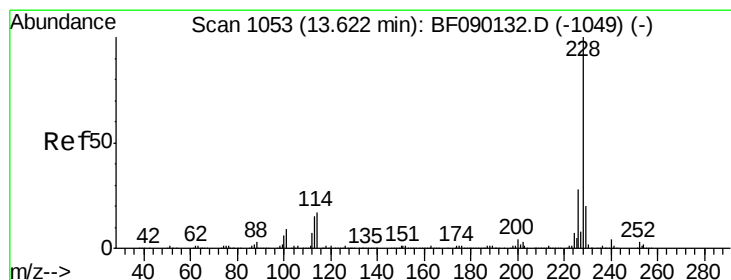
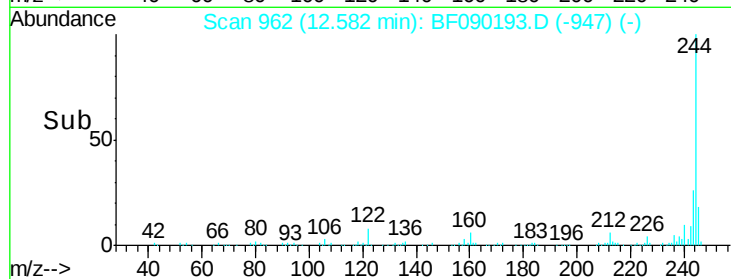
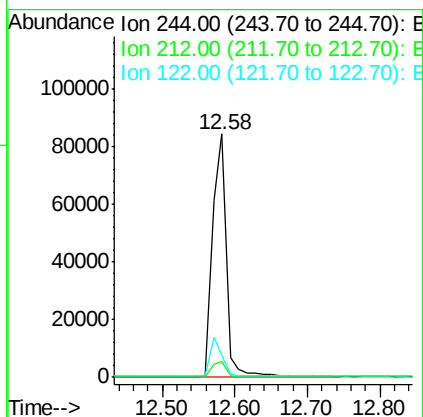
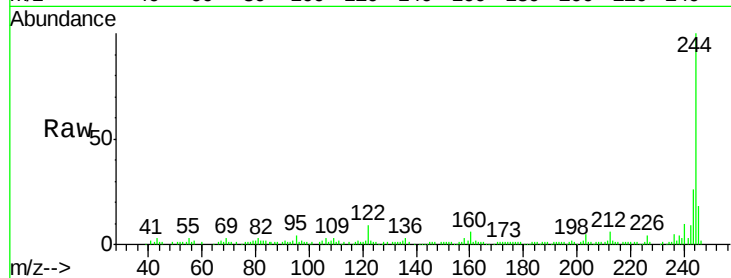




#78  
 Terphenyl-d14  
 Concen: 10.76 ng  
 RT: 12.58 min Scan# 962  
 Delta R.T. -0.02 min  
 Lab File: BF090193.D  
 Acq: 22 Sep 2016 18:09

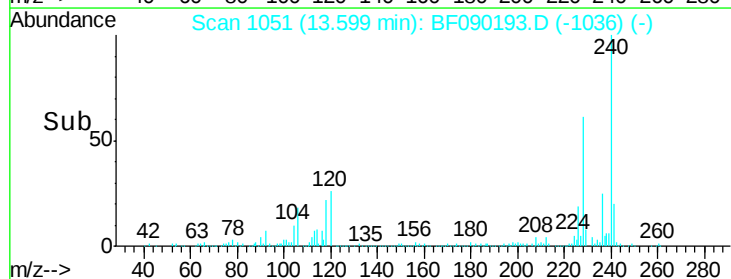
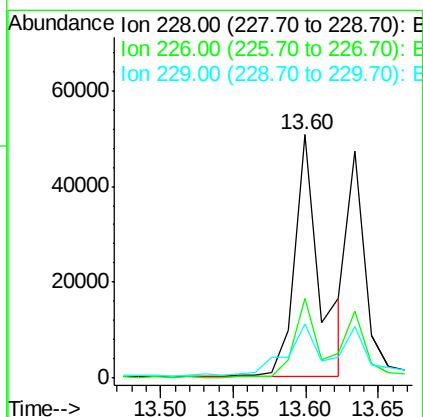
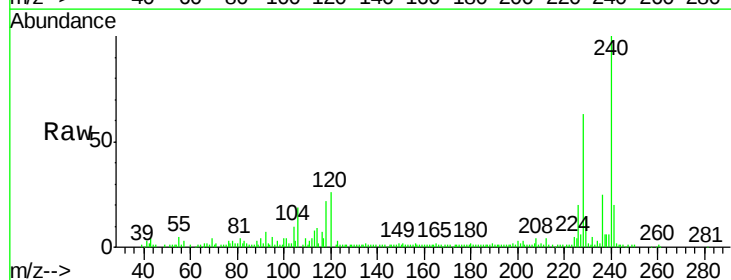
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-2

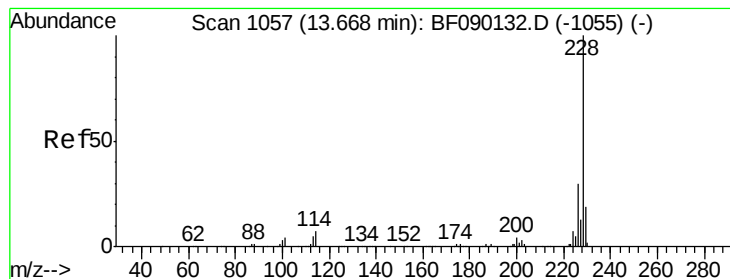
Tgt Ion:244 Resp: 113799  
 Ion Ratio Lower Upper  
 244 100  
 212 6.3 5.8 8.8  
 122 9.3 9.4 14.0#



#80  
 Benzo(a)anthracene  
 Concen: 4.21 ng  
 RT: 13.60 min Scan# 1051  
 Delta R.T. -0.02 min  
 Lab File: BF090193.D  
 Acq: 22 Sep 2016 18:09

Tgt Ion:228 Resp: 60892  
 Ion Ratio Lower Upper  
 228 100  
 226 32.6 22.0 33.0  
 229 22.2 16.2 24.2





#82

Chrysene

Concen: 4.33 ng

RT: 13.60 min Scan# 1051

Delta R.T. -0.07 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

Instrument :

BNA\_F

ClientSampleId :

SS-2

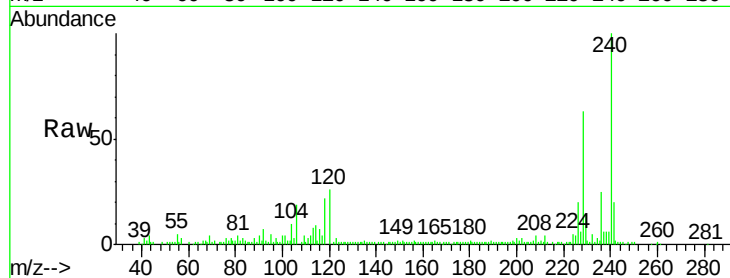
Tgt Ion:228 Resp: 60892

Ion Ratio Lower Upper

228 100

226 32.6 24.6 37.0

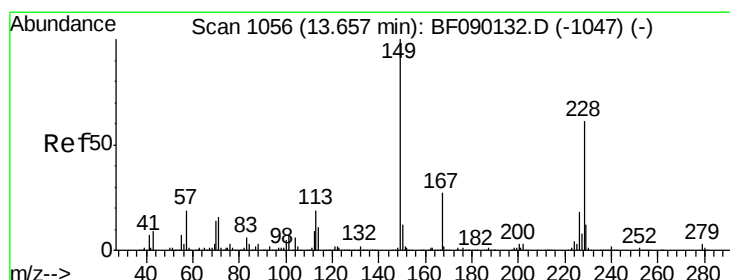
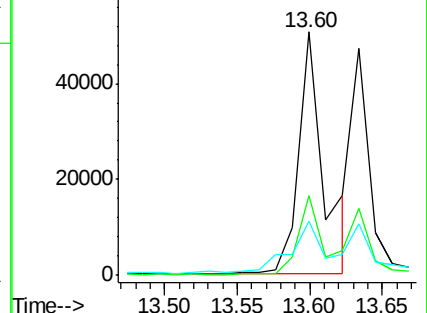
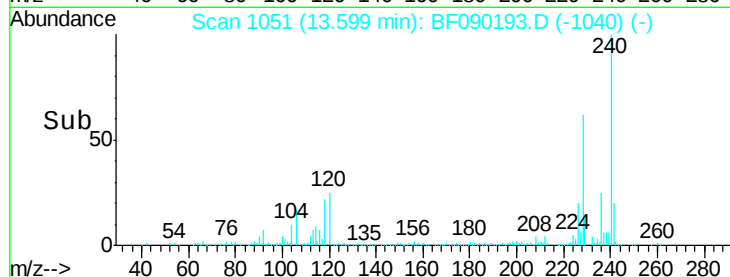
229 22.2 16.2 24.4



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 8.53 ng

RT: 13.63 min Scan# 1054

Delta R.T. -0.02 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

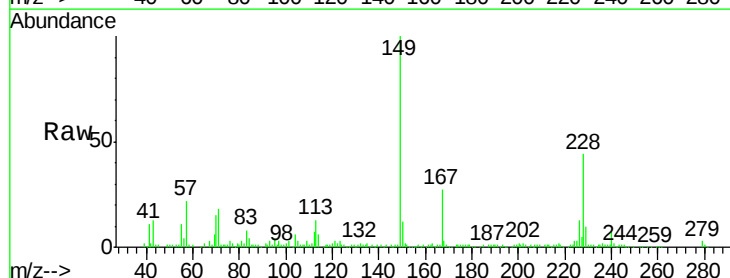
Tgt Ion:149 Resp: 98169

Ion Ratio Lower Upper

149 100

167 27.3 21.2 31.8

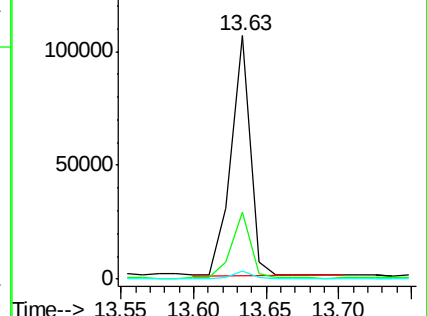
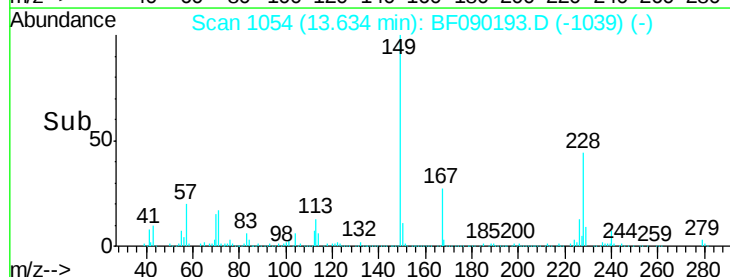
279 3.4 2.2 3.2#

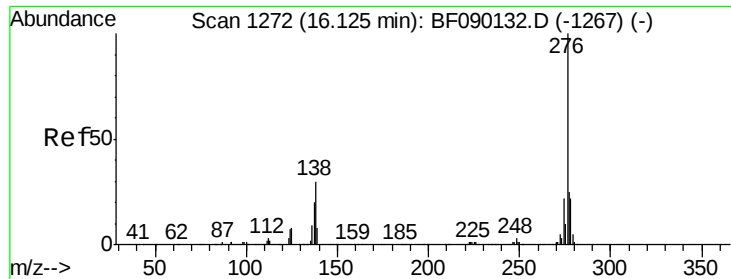


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

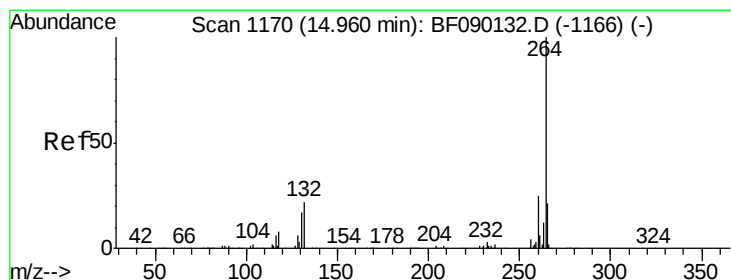
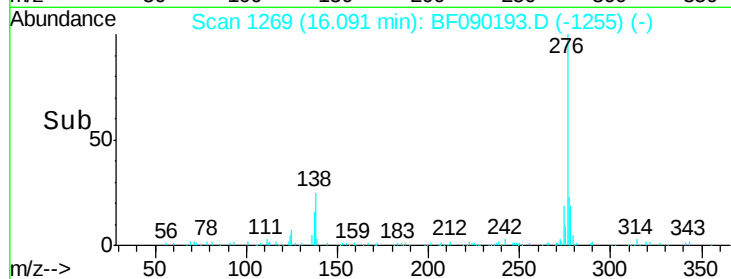
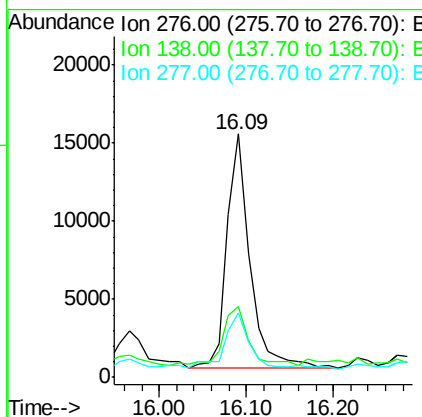
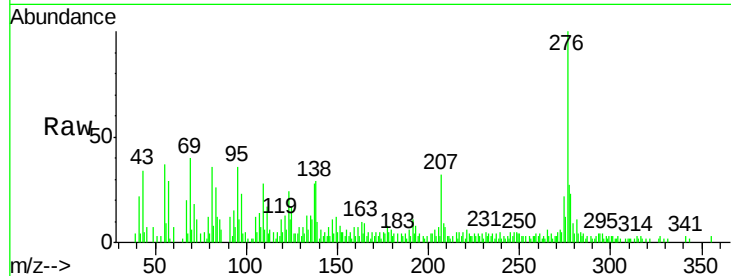




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.40 ng  
 RT: 16.09 min Scan# 1269  
 Delta R.T. -0.03 min  
 Lab File: BF090193.D  
 Acq: 22 Sep 2016 18:09

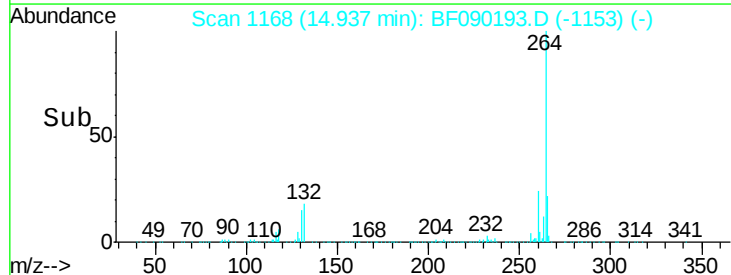
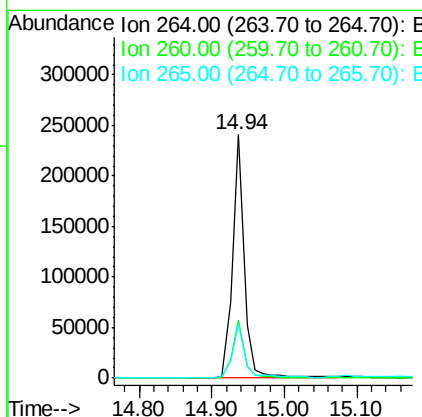
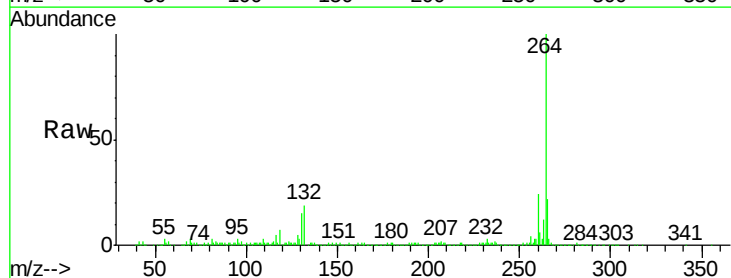
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-2

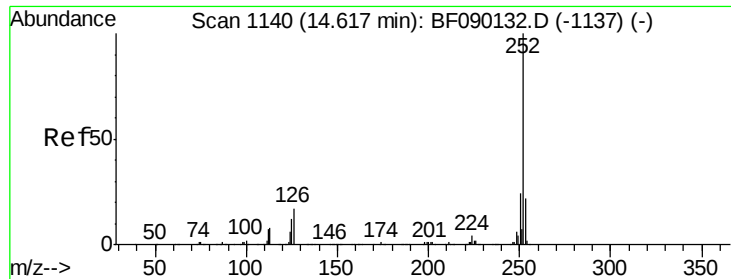
Tgt Ion: 276 Resp: 27330  
 Ion Ratio Lower Upper  
 276 100  
 138 27.5 25.9 38.9  
 277 24.7 19.9 29.9



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 14.94 min Scan# 1168  
 Delta R.T. -0.02 min  
 Lab File: BF090193.D  
 Acq: 22 Sep 2016 18:09

Tgt Ion: 264 Resp: 274570  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 19.5 29.3  
 265 22.1 17.0 25.4

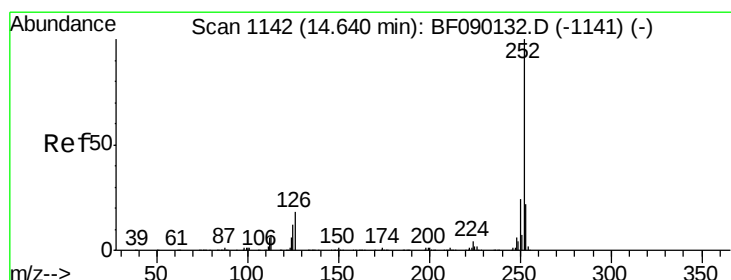
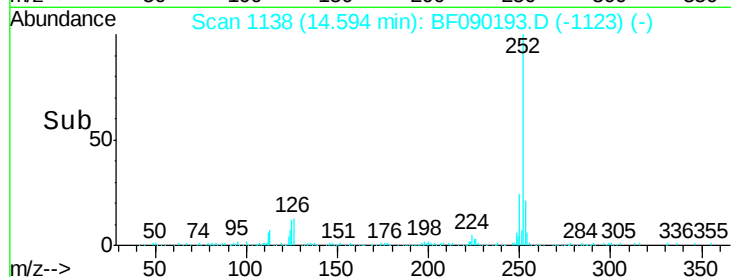
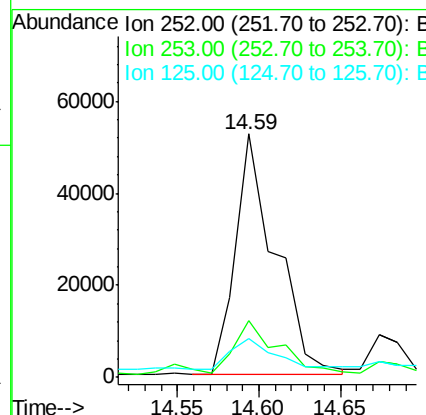
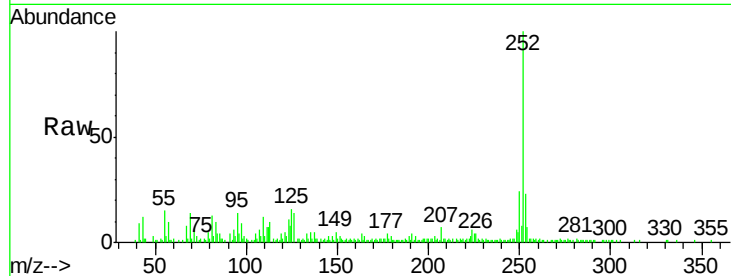




#87  
Benzo(b)fluoranthene  
Concen: 5.76 ng  
RT: 14.59 min Scan# 1138  
Delta R.T. -0.02 min  
Lab File: BF090193.D  
Acq: 22 Sep 2016 18:09

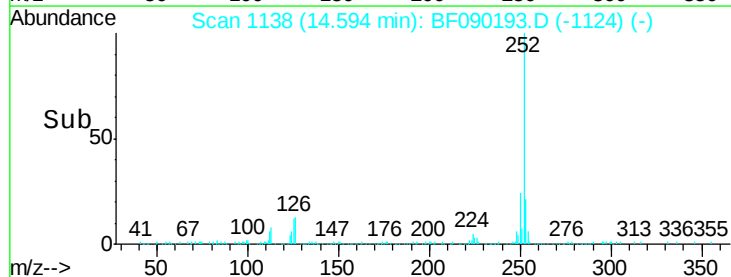
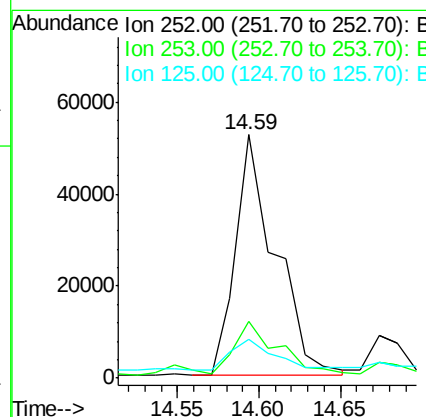
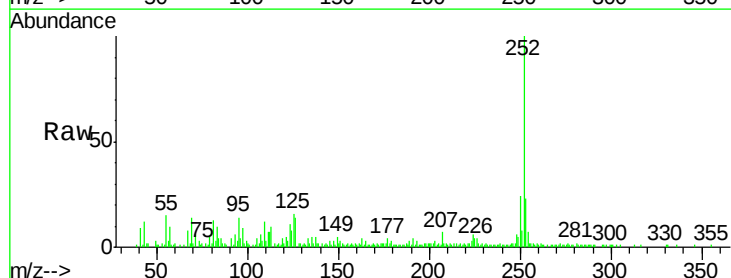
Instrument :  
BNA\_F  
ClientSampleId :  
SS-2

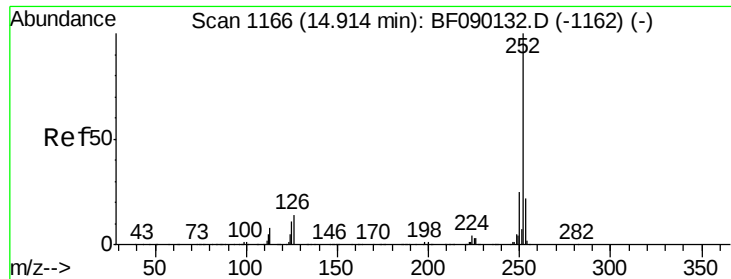
Tgt Ion:252 Resp: 87618  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.9 26.9  
125 15.8 12.7 19.1



#88  
Benzo(k)fluoranthene  
Concen: 6.14 ng  
RT: 14.59 min Scan# 1138  
Delta R.T. -0.05 min  
Lab File: BF090193.D  
Acq: 22 Sep 2016 18:09

Tgt Ion:252 Resp: 87618  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.8 26.8  
125 15.8 7.8 11.6#





#89

Benzo(a)pyrene

Concen: 3.22 ng

RT: 14.88 min Scan# 1163

Delta R.T. -0.03 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

Instrument :

BNA\_F

ClientSampled :

SS-2

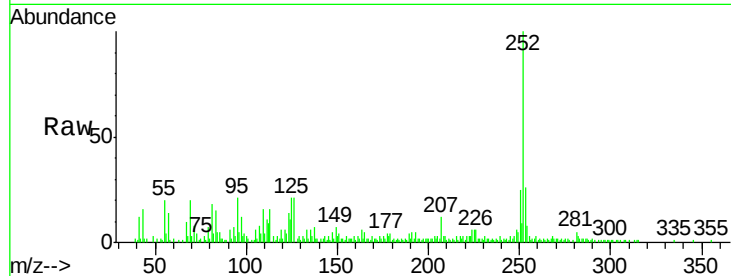
Tgt Ion:252 Resp: 45998

Ion Ratio Lower Upper

252 100

253 25.8 17.4 26.0

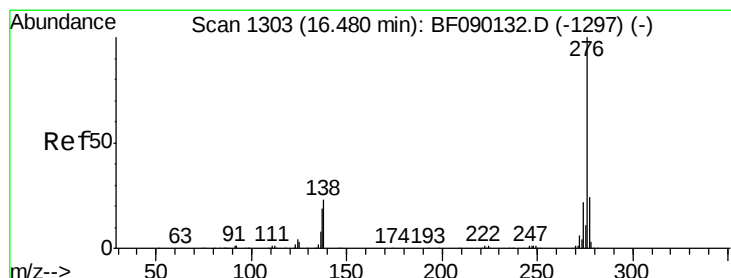
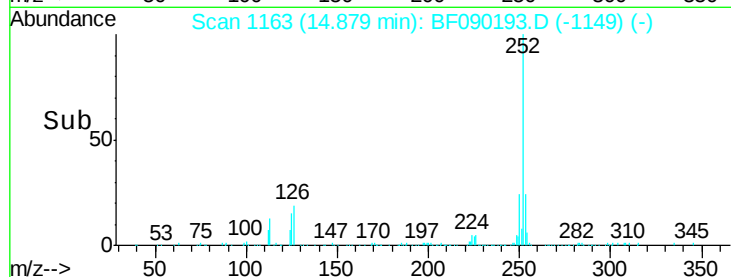
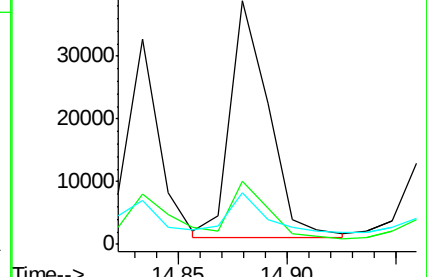
125 21.0 7.7 11.5#



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



#91

Benzo(g,h,i)perylene

Concen: 2.22 ng

RT: 16.43 min Scan# 1299

Delta R.T. -0.05 min

Lab File: BF090193.D

Acq: 22 Sep 2016 18:09

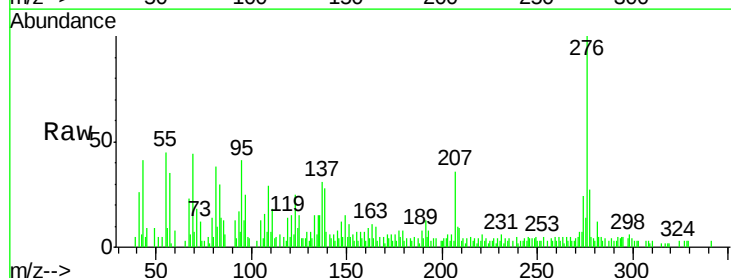
Tgt Ion:276 Resp: 24205

Ion Ratio Lower Upper

276 100

277 26.9 18.9 28.3

138 27.8 23.3 34.9



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

