

Data File : BF093258.D  
Acq On : 28 Feb 2017 19:43  
Operator : SJ/MA  
Sample : I2017-11  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-8-20170227

Quant Time: Mar 01 02:17:56 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 17 17:31:55 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 138338   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 8.10  | 136  | 557304   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.85  | 164  | 229322   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.33 | 188  | 368796   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12          | 13.99 | 240  | 293656   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.41 | 264  | 214109   | 20.00 | ng    | -0.03    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.41  | 112 | 984674  | 122.12 | ng | -0.03 |
| 7) Phenol-d6                | 6.46  | 99  | 1320662 | 127.29 | ng | -0.02 |
| 23) Nitrobenzene-d5         | 7.38  | 82  | 707618  | 70.71  | ng | -0.05 |
| 41) 2,4,6-Tribromophenol    | 10.65 | 330 | 202785  | 122.26 | ng | -0.03 |
| 44) 2-Fluorobiphenyl        | 9.17  | 172 | 1168971 | 92.35  | ng | -0.05 |
| 78) Terphenyl-d14           | 12.92 | 244 | 847611  | 67.82  | ng | -0.05 |

|                                |       |     |         |        |    |        |
|--------------------------------|-------|-----|---------|--------|----|--------|
| Target Compounds               |       |     |         |        |    | Qvalue |
| 10) Phenol                     | 6.49  | 94  | 85759   | 7.07   | ng | # 67   |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70  | 97023   | 14.69  | ng | # 82   |
| 25) Isophorone                 | 7.38  | 82  | 626387  | 33.59  | ng | # 65   |
| 31) Naphthalene                | 8.12  | 128 | 69754   | 2.47   | ng | 99     |
| 32) Benzoic acid               | 7.90  | 122 | 6066    | 8.23   | ng | # 34   |
| 37) 2-Methylnaphthalene        | 8.81  | 142 | 54156   | 2.99   | ng | 98     |
| 48) Acenaphthylene             | 9.71  | 152 | 425481  | 18.96  | ng | 98     |
| 49) Dimethylphthalate          | 9.57  | 163 | 87408   | 5.66   | ng | 98     |
| 51) Acenaphthene               | 9.88  | 154 | 30356   | 2.26   | ng | 90     |
| 54) Dibenzofuran               | 10.05 | 168 | 129453  | 7.21   | ng | 95     |
| 55) 4-Nitrophenol              | 10.05 | 139 | 50322   | 18.30  | ng | # 6    |
| 57) Fluorene                   | 10.40 | 166 | 132663  | 9.61   | ng | 97     |
| 64) 4,6-Dinitro-2-methylphenol | 10.64 | 198 | 769     | 2.99   | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.65 | 248 | 14651   | 3.80   | ng | # 1    |
| 70) Phenanthrene               | 11.37 | 178 | 1789370 | 84.69  | ng | 99     |
| 71) Anthracene                 | 11.41 | 178 | 357132  | 16.83  | ng | 98     |
| 72) Carbazole                  | 11.57 | 167 | 131246  | 6.47   | ng | 97     |
| 74) Fluoranthene               | 12.56 | 202 | 2326502 | 106.75 | ng | 100    |
| 77) Pyrene                     | 12.79 | 202 | 2145922 | 97.65  | ng | 100    |
| 80) Benzo(a)anthracene         | 14.01 | 228 | 759120  | 42.27  | ng | 95     |
| 82) Chrysene                   | 14.01 | 228 | 755278  | 44.91  | ng | 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.81 | 276 | 421466  | 32.36  | ng | 97     |
| 87) Benzo(b)fluoranthene       | 15.01 | 252 | 1354970 | 96.15  | ng | 98     |
| 88) Benzo(k)fluoranthene       | 15.01 | 252 | 1354970 | 111.36 | ng | # 97   |
| 89) Benzo(a)pyrene             | 15.36 | 252 | 624420  | 51.22  | ng | 99     |
| 90) Dibenzo(a,h)anthracene     | 16.81 | 278 | 108967  | 11.06  | ng | # 75   |
| 91) Benzo(g,h,i)perylene       | 17.23 | 276 | 373056  | 37.48  | ng | # 90   |

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

Data File : BF093258.D

Acq On : 28 Feb 2017 19:43

Operator : SJ/MA

Sample : I2017-11

Misc :

ALS Vial : 21 Sample Multiplier: 1

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

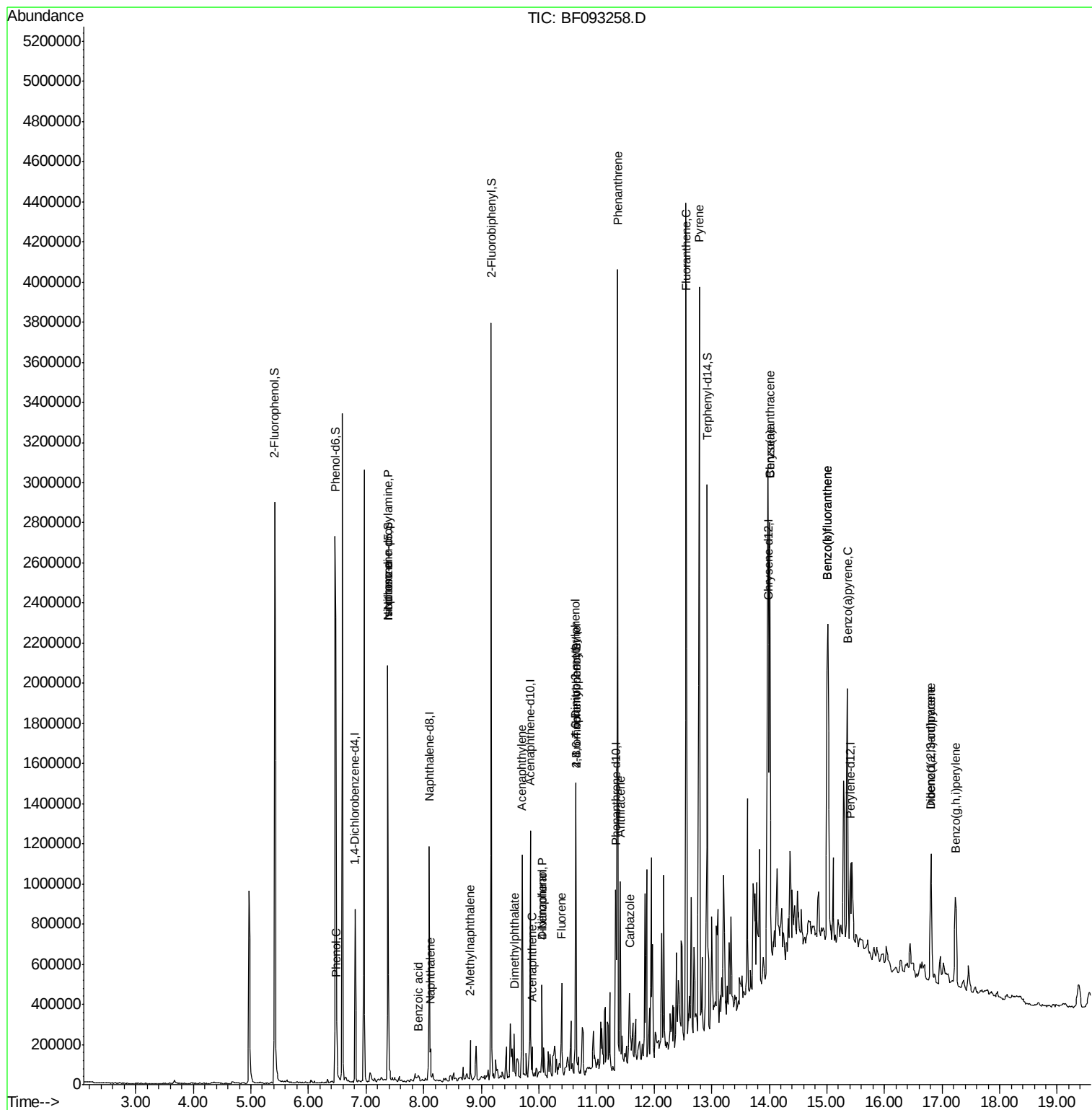
Quant Time: Mar 01 02:17:56 2017

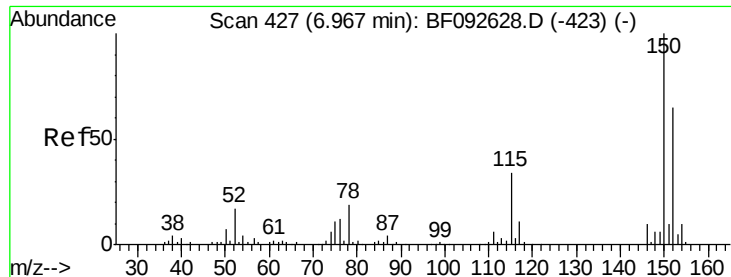
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Feb 17 17:31:55 2017

Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.81 min Scan# 413

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

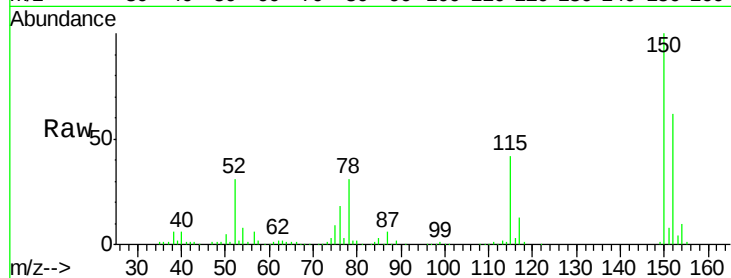
Tgt Ion:152 Resp: 138338

Ion Ratio Lower Upper

152 100

150 162.0 124.9 187.3

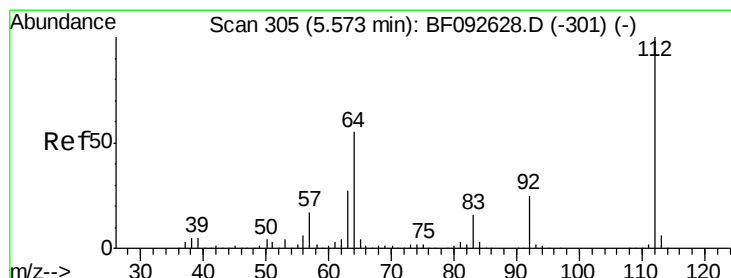
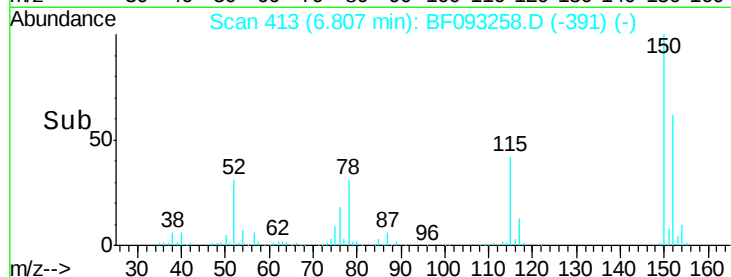
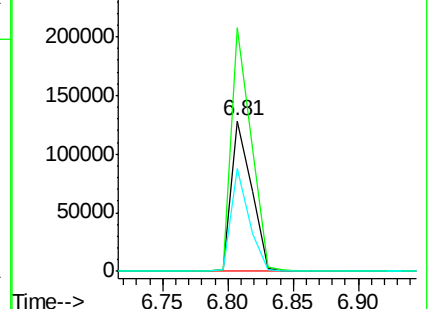
115 68.1 46.0 69.0



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: 122.12 ng

RT: 5.41 min Scan# 291

Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

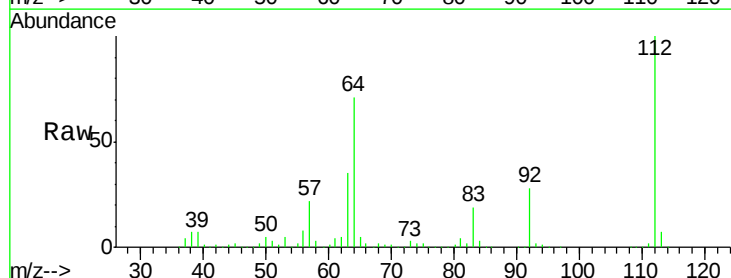
Tgt Ion:112 Resp: 984674

Ion Ratio Lower Upper

112 100

64 70.6 46.1 69.1#

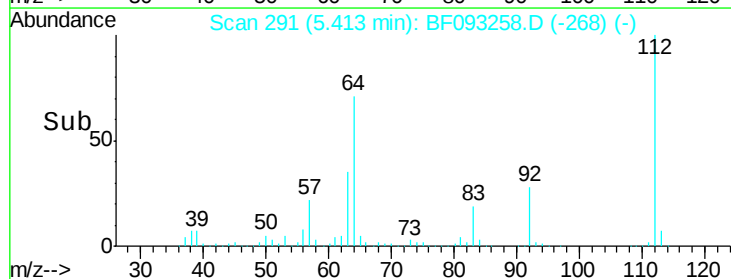
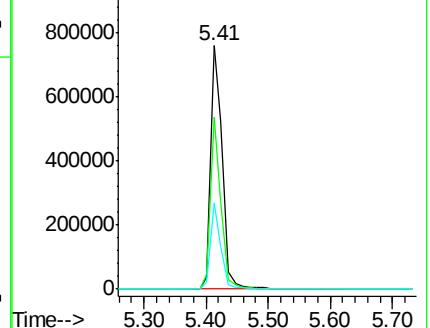
63 35.2 23.8 35.6

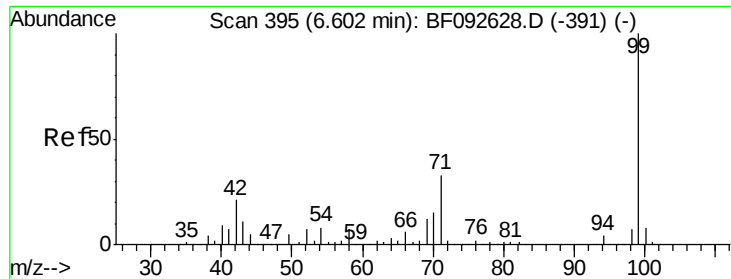


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 127.29 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.02 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

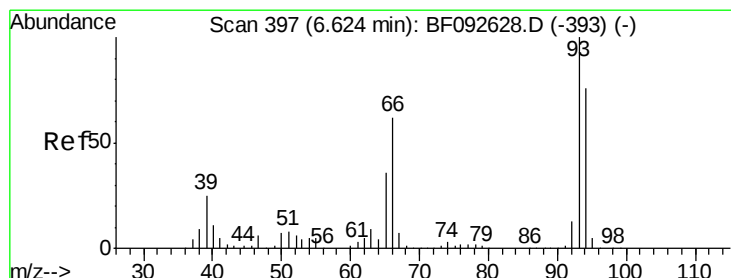
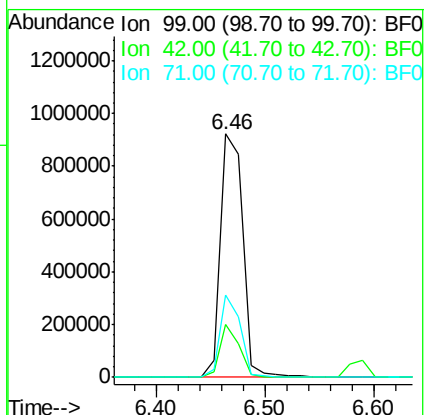
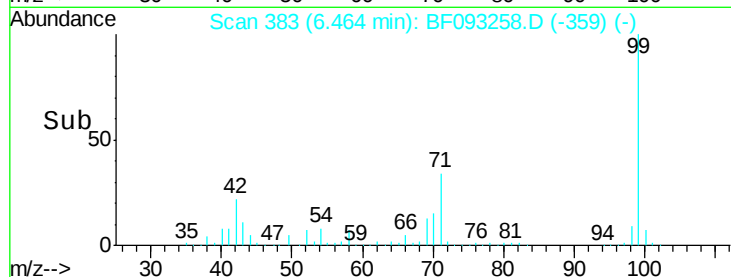
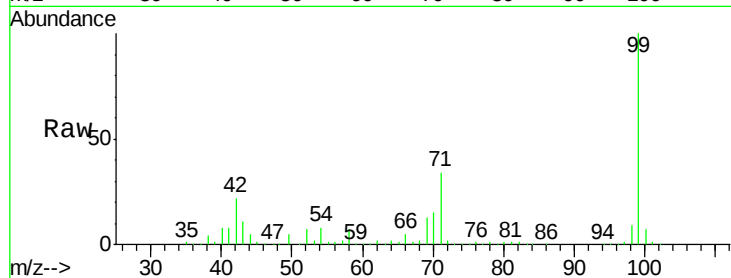
Tgt Ion: 99 Resp: 1320662

Ion Ratio Lower Upper

99 100

42 21.6 15.6 23.4

71 33.6 27.5 41.3



#10

Phenol

Concen: 7.07 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

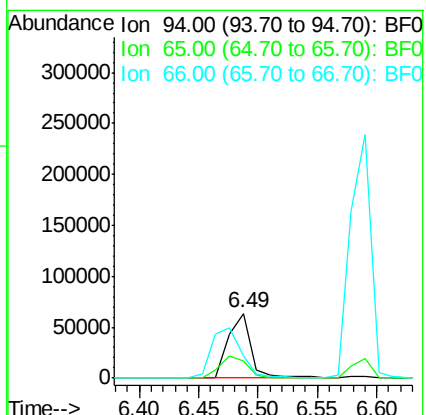
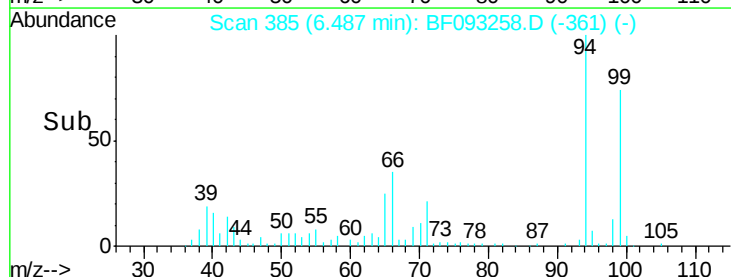
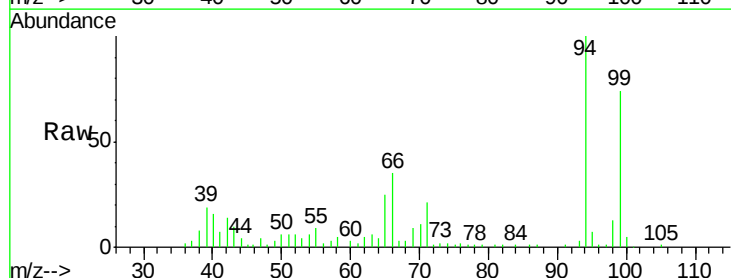
Tgt Ion: 94 Resp: 85759

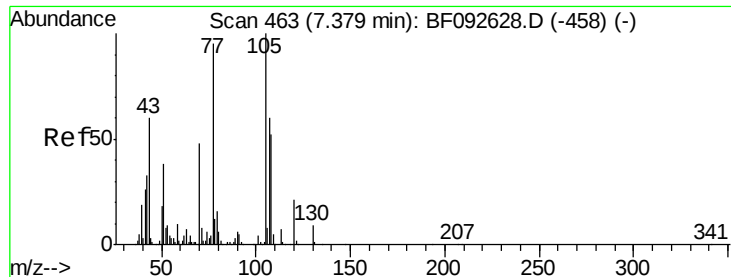
Ion Ratio Lower Upper

94 100

65 25.3 21.4 61.4

66 34.7 44.0 84.0#

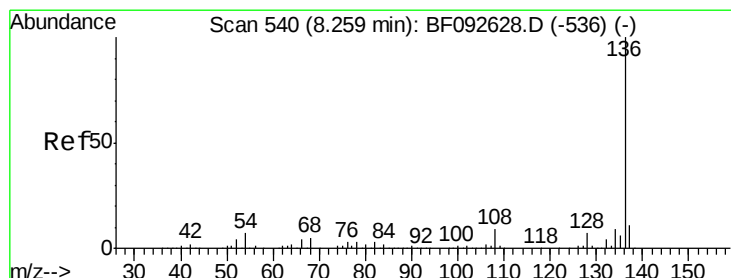
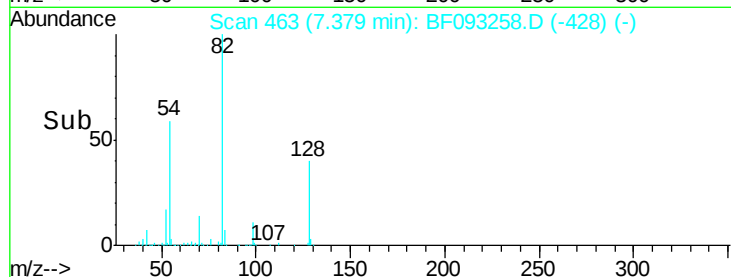
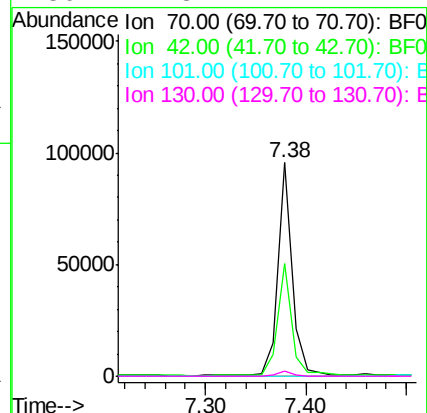
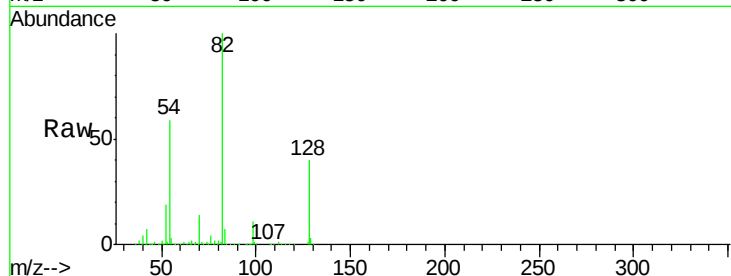




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.69 ng  
RT: 7.38 min Scan# 463  
Delta R.T. 0.10 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

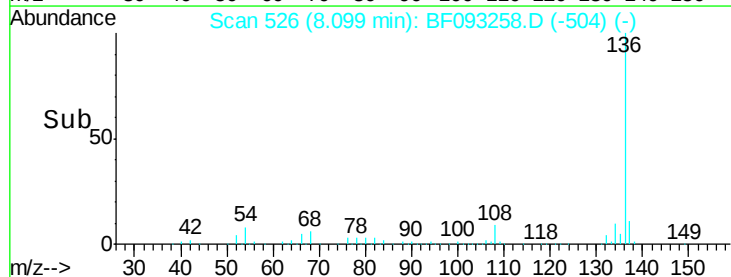
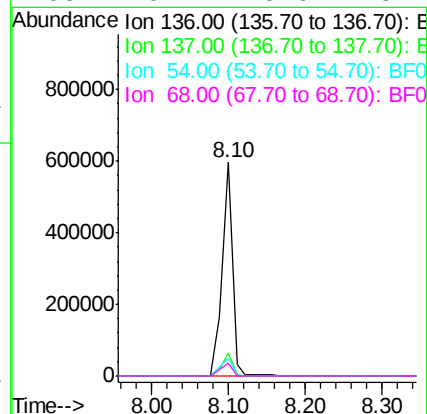
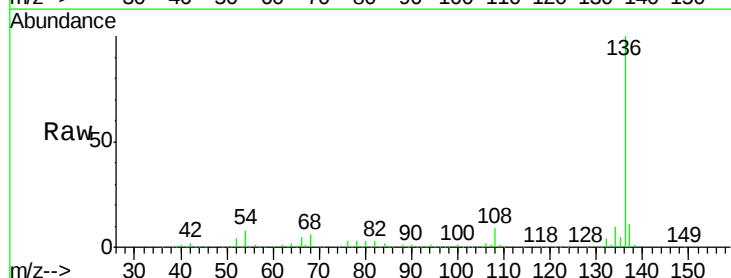
Instrument :  
BNA\_F  
ClientSampleId :  
TK3-8-20170227

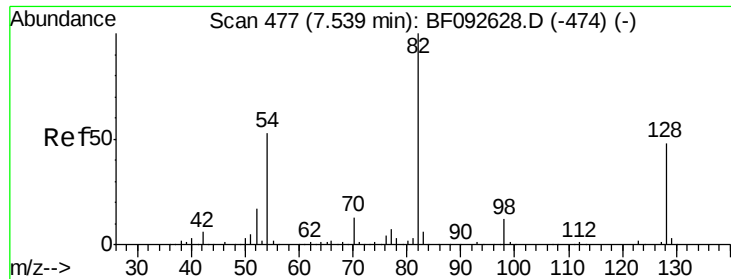
Tgt Ion: 70 Resp: 97023  
Ion Ratio Lower Upper  
70 100  
42 52.7 49.4 74.0  
101 0.0 7.4 11.2#  
130 2.3 14.2 21.4#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.10 min Scan# 526  
Delta R.T. -0.05 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Tgt Ion: 136 Resp: 557304  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.4 12.6  
54 8.1 4.5 6.7#  
68 6.2 3.6 5.4#

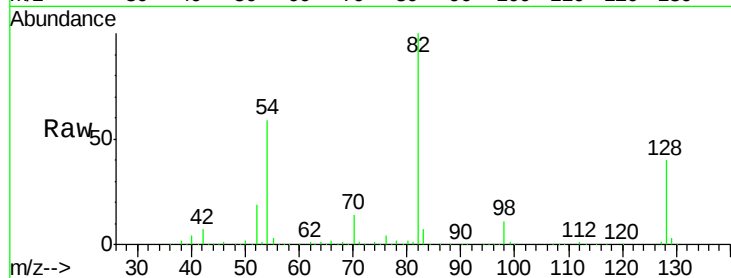




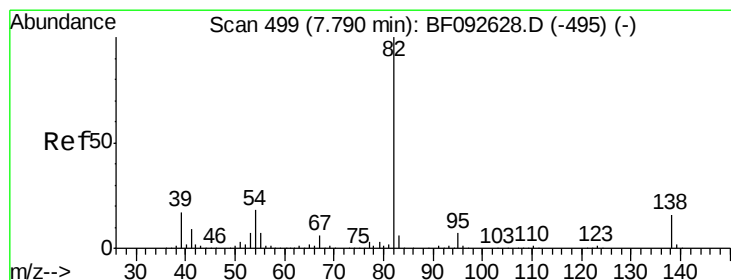
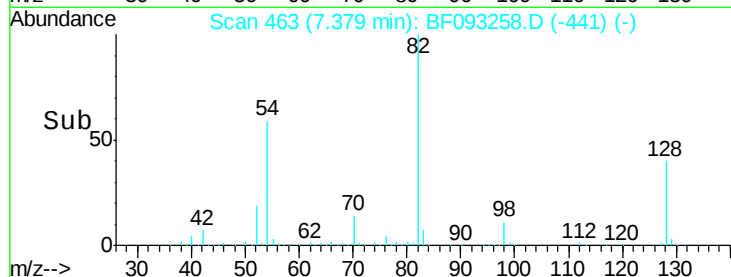
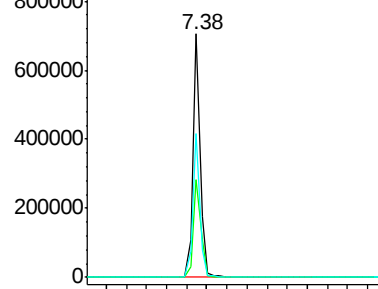
#23  
Nitrobenzene-d5  
Concen: 70.71 ng  
RT: 7.38 min Scan# 463  
Delta R.T. -0.05 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-8-20170227

Tgt Ion: 82 Resp: 707618  
Ion Ratio Lower Upper  
82 100  
128 40.1 34.6 52.0  
54 59.2 39.5 59.3

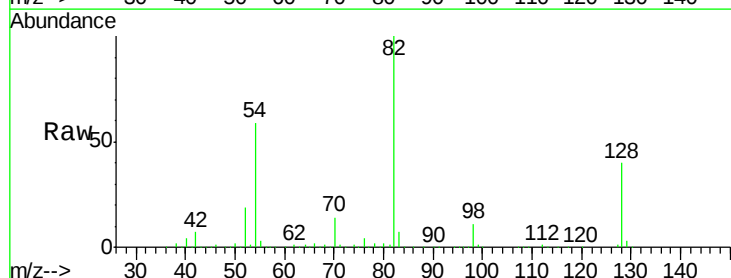


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): BF0  
Ion 54.00 (53.70 to 54.70): BF0

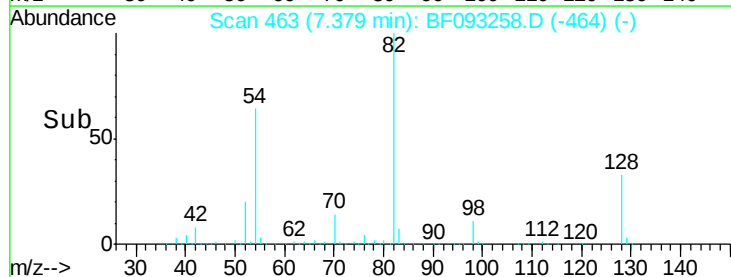
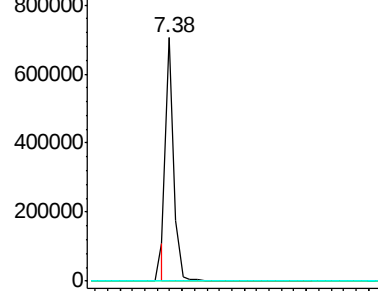


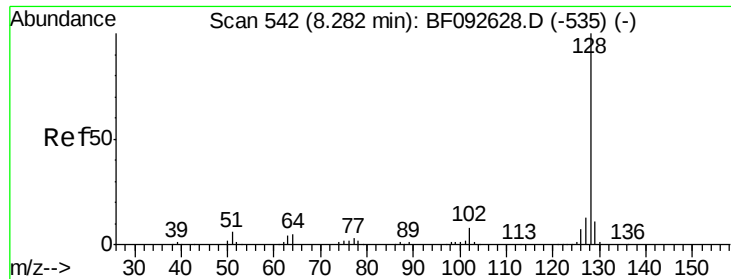
#25  
Isophorone  
Concen: 33.59 ng  
RT: 7.38 min Scan# 463  
Delta R.T. -0.31 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Tgt Ion: 82 Resp: 626387  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.6 8.4#  
138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0

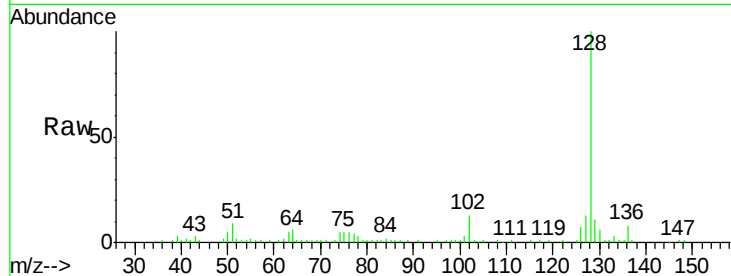




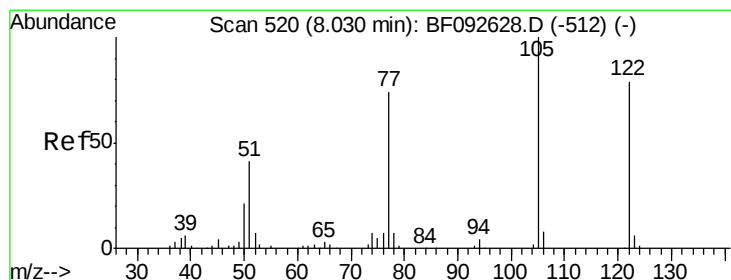
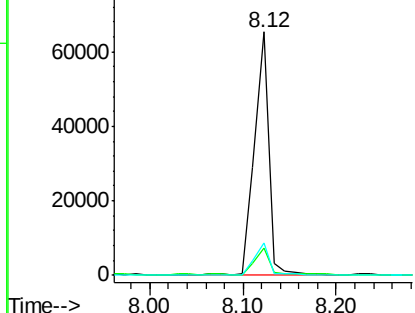
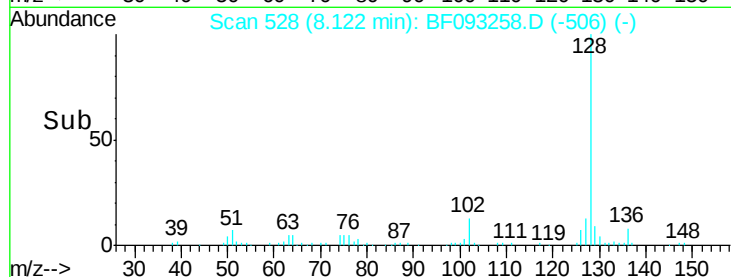
#31  
Naphthalene  
Concen: 2.47 ng  
RT: 8.12 min Scan# 528  
Delta R.T. -0.05 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-8-20170227

Tgt Ion:128 Resp: 69754  
Ion Ratio Lower Upper  
128 100  
129 11.2 9.5 14.3  
127 13.3 10.8 16.2

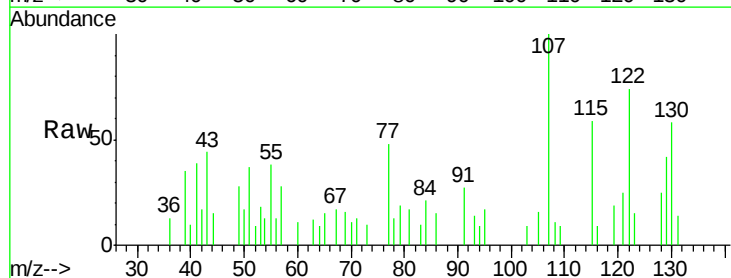


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

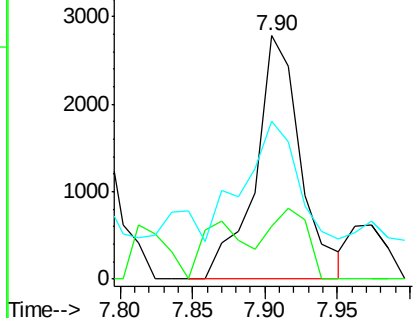
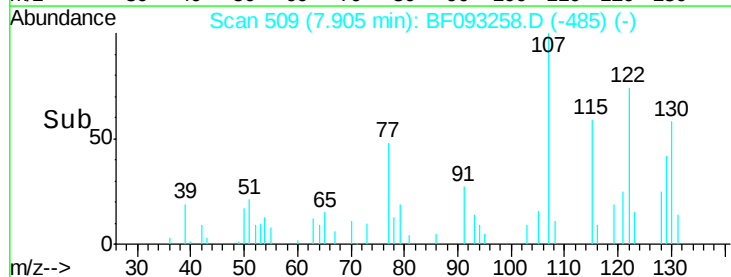


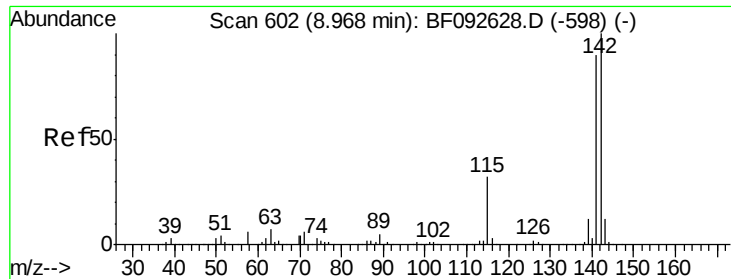
#32  
Benzoic acid  
Concen: 8.23 ng  
RT: 7.90 min Scan# 509  
Delta R.T. -0.02 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Tgt Ion:122 Resp: 6066  
Ion Ratio Lower Upper  
122 100  
105 21.9 107.2 147.2#  
77 64.7 74.5 114.5#



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

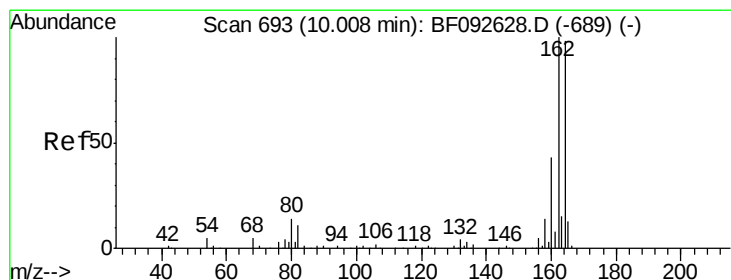
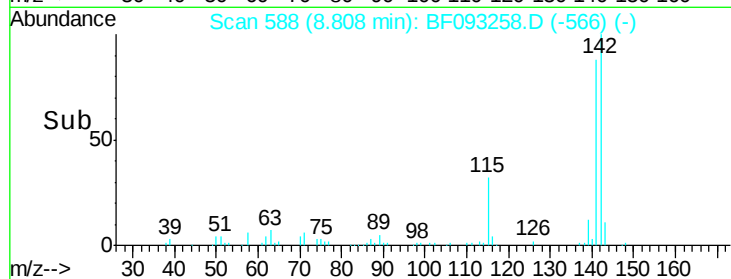
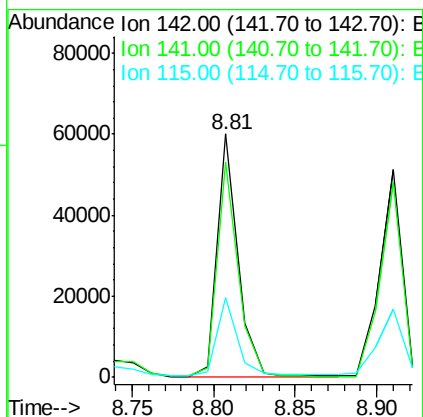
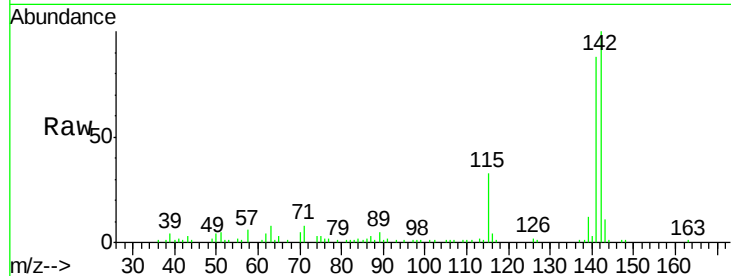




#37  
 2-Methylnaphthalene  
 Concen: 2.99 ng  
 RT: 8.81 min Scan# 588  
 Delta R.T. -0.05 min  
 Lab File: BF093258.D  
 Acq: 28 Feb 2017 19:43

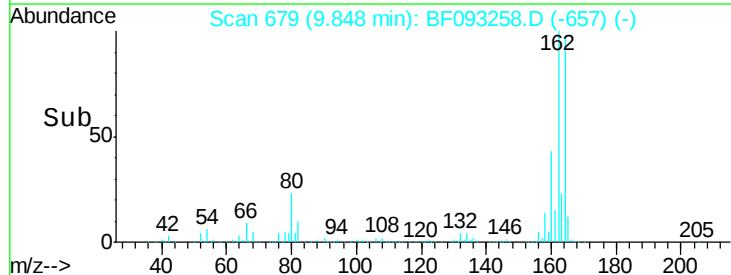
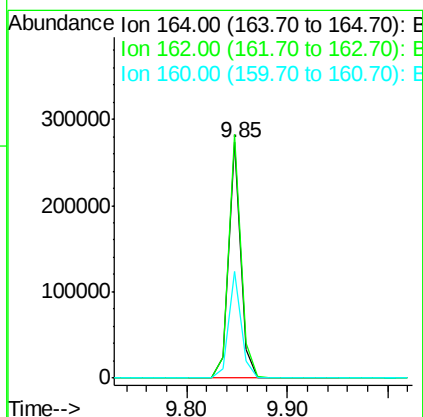
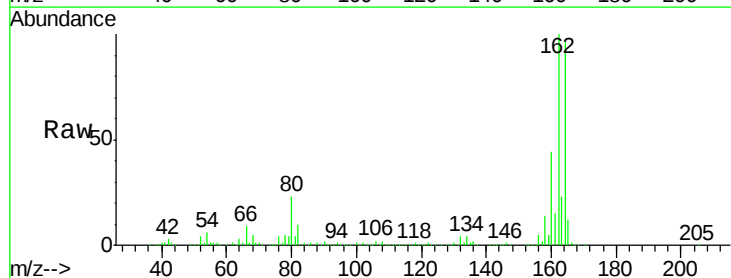
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TK3-8-20170227

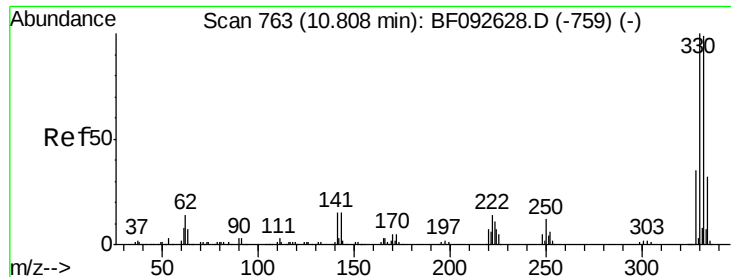
Tgt Ion:142 Resp: 54156  
 Ion Ratio Lower Upper  
 142 100  
 141 88.3 71.0 106.6  
 115 32.9 28.3 42.5



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.85 min Scan# 679  
 Delta R.T. -0.05 min  
 Lab File: BF093258.D  
 Acq: 28 Feb 2017 19:43

Tgt Ion:164 Resp: 229322  
 Ion Ratio Lower Upper  
 164 100  
 162 103.4 80.2 120.2  
 160 45.1 36.9 55.3

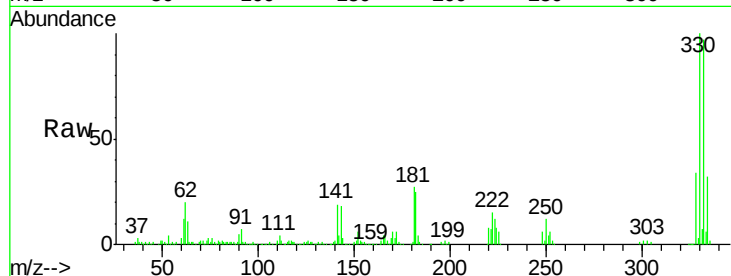




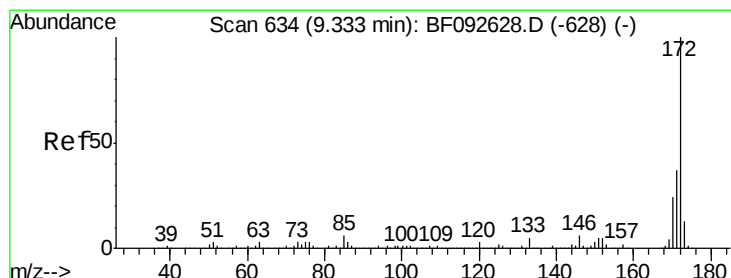
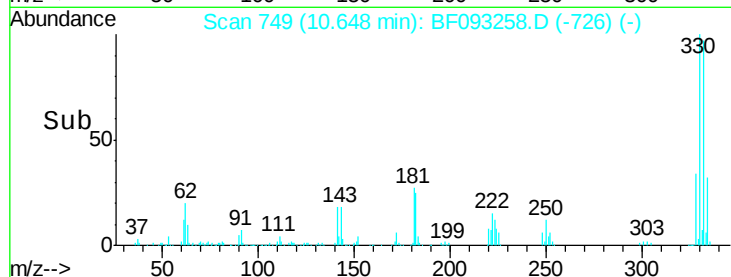
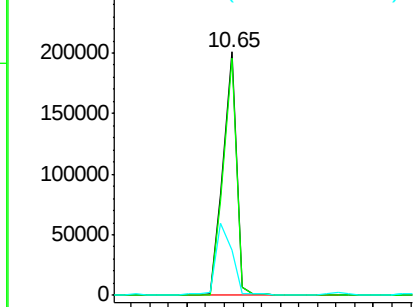
#41  
 2,4,6-Tribromophenol  
 Concen: 122.26 ng  
 RT: 10.65 min Scan# 749  
 Delta R.T. -0.03 min  
 Lab File: BF093258.D  
 Acq: 28 Feb 2017 19:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TK3-8-20170227

Tgt Ion:330 Resp: 202785  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.4 116.2  
 141 35.0 34.1 51.1

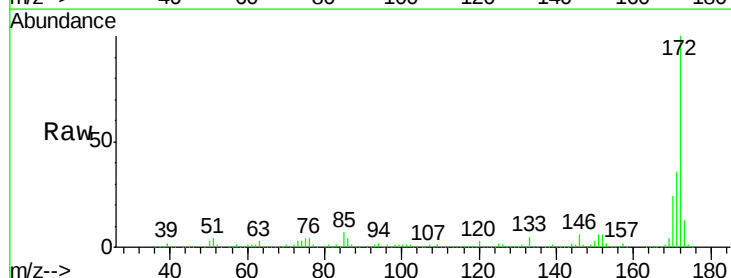


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

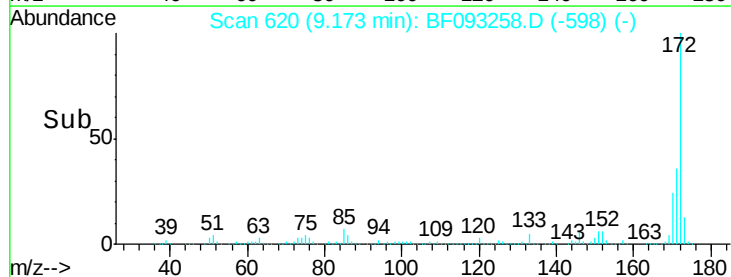
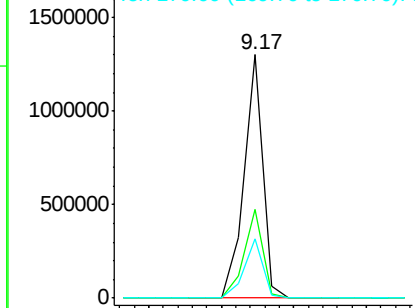


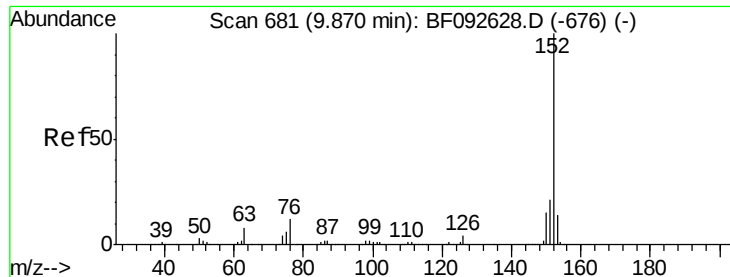
#44  
 2-Fluorobiphenyl  
 Concen: 92.35 ng  
 RT: 9.17 min Scan# 620  
 Delta R.T. -0.05 min  
 Lab File: BF093258.D  
 Acq: 28 Feb 2017 19:43

Tgt Ion:172 Resp: 1168971  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.4 44.0  
 170 24.2 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





#48

Acenaphthylene

Concen: 18.96 ng

RT: 9.71 min Scan# 667

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

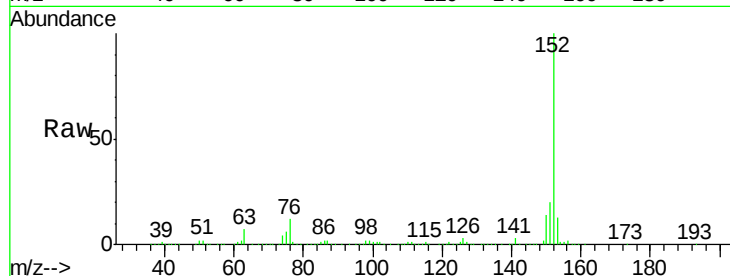
Tgt Ion:152 Resp: 425481

Ion Ratio Lower Upper

152 100

151 20.1 16.9 25.3

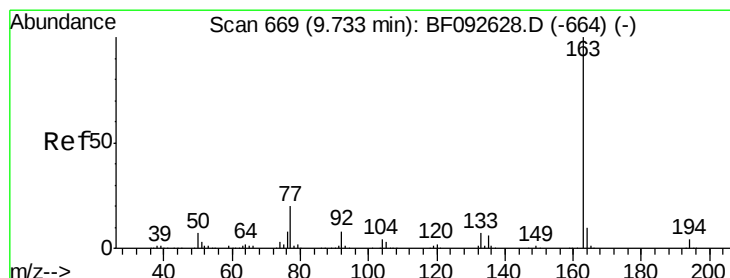
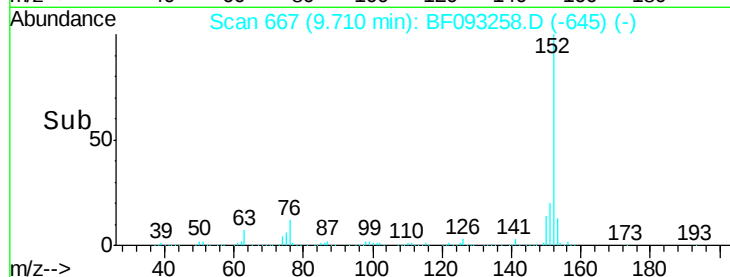
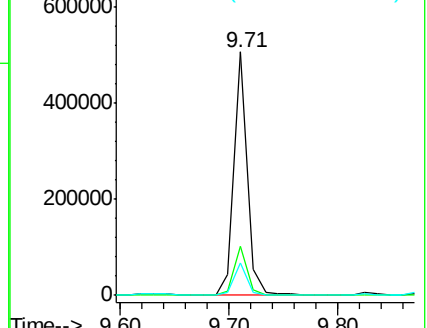
153 13.3 11.4 17.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 5.66 ng

RT: 9.57 min Scan# 655

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

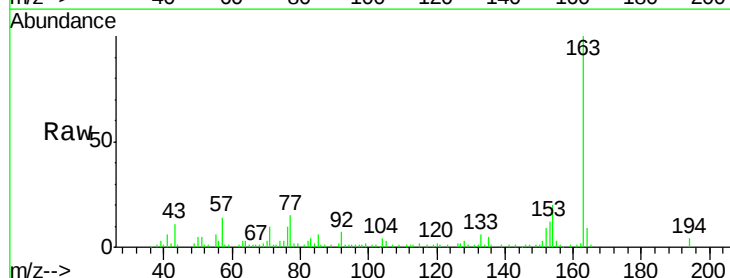
Tgt Ion:163 Resp: 87408

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.4

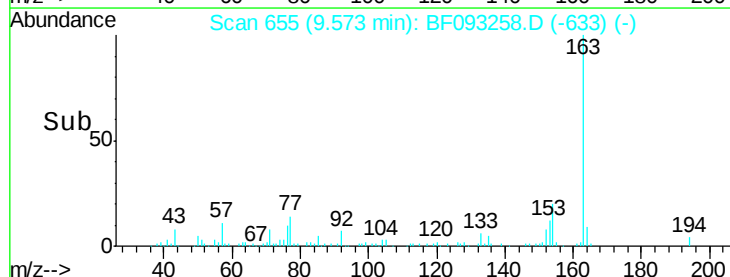
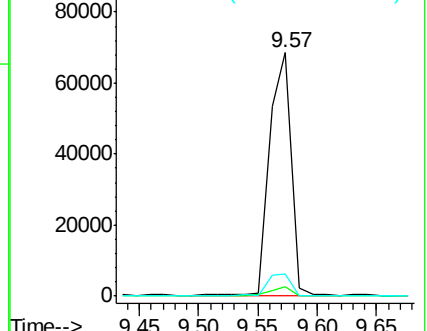
164 8.9 8.0 12.0

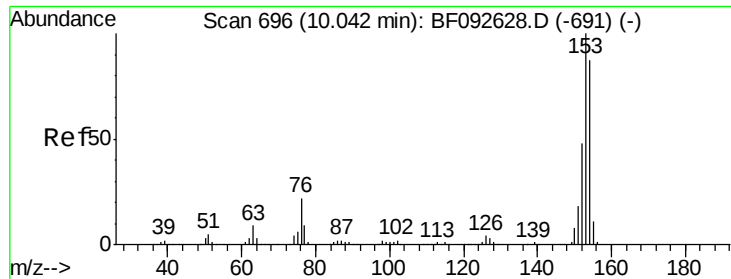


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.26 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

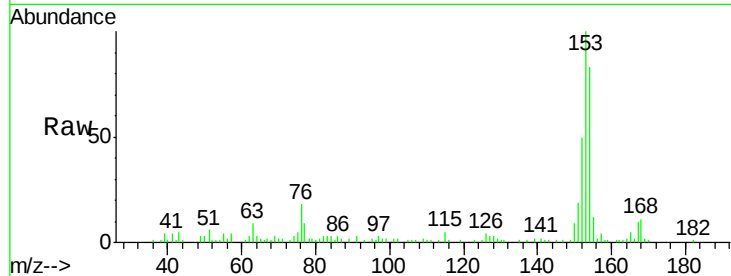
Tgt Ion:154 Resp: 30356

Ion Ratio Lower Upper

154 100

153 120.1 88.6 133.0

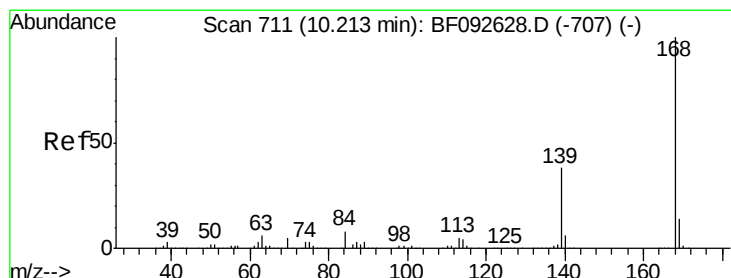
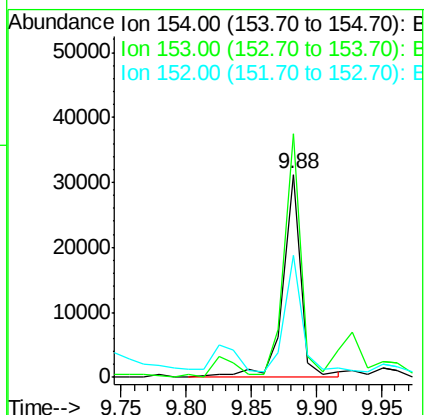
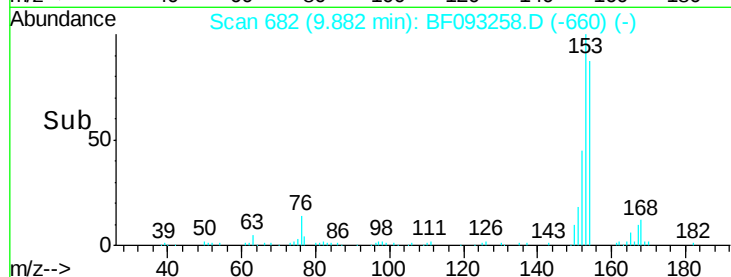
152 60.2 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 7.21 ng

RT: 10.05 min Scan# 697

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

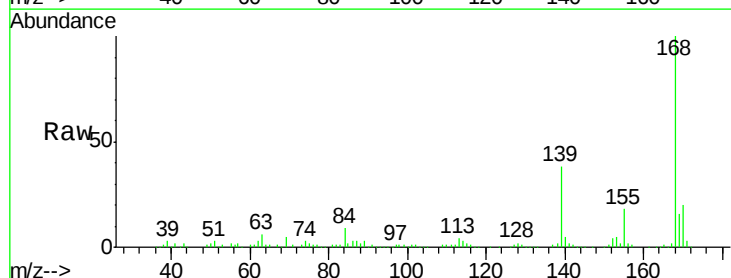
Tgt Ion:168 Resp: 129453

Ion Ratio Lower Upper

168 100

139 38.0 32.6 49.0

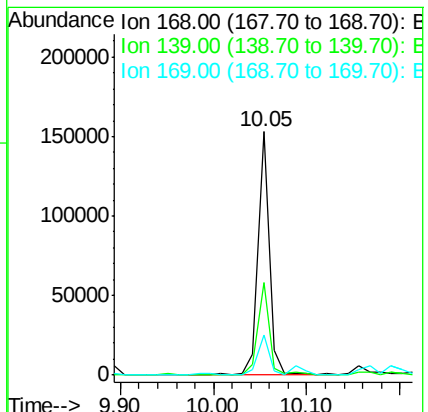
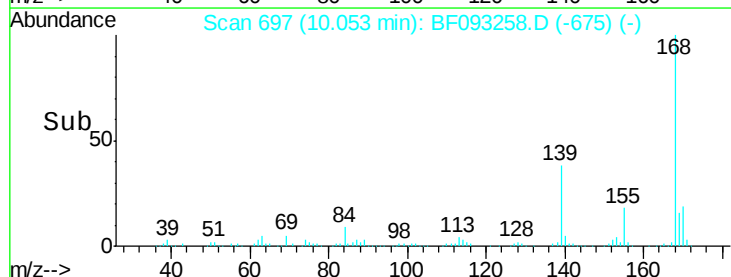
169 16.4 11.3 16.9

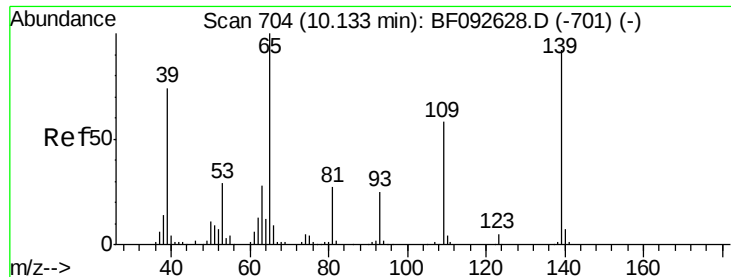


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 18.30 ng

RT: 10.05 min Scan# 697

Delta R.T. 0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

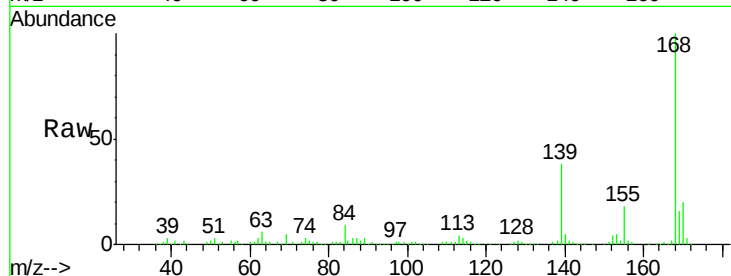
Tgt Ion:139 Resp: 50322

Ion Ratio Lower Upper

139 100

109 1.6 52.2 92.2#

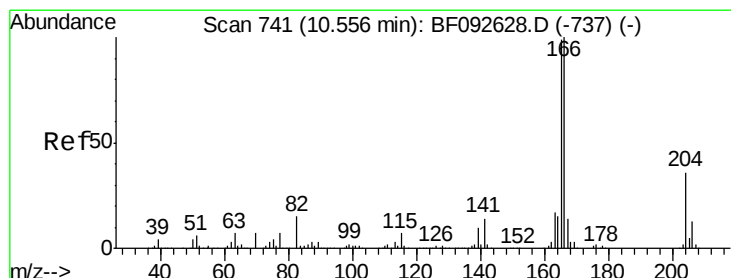
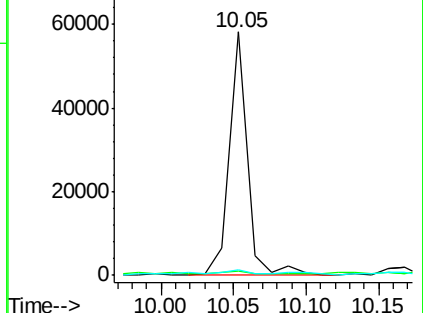
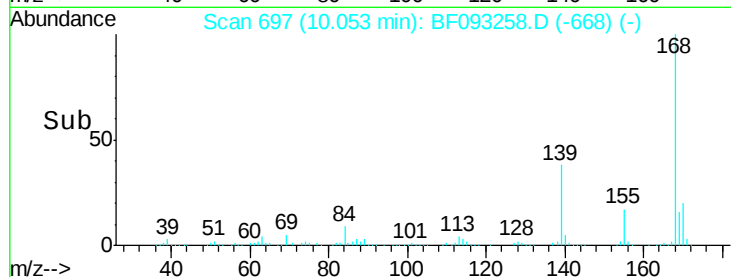
65 2.2 85.8 125.8#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#57

Fluorene

Concen: 9.61 ng

RT: 10.40 min Scan# 727

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

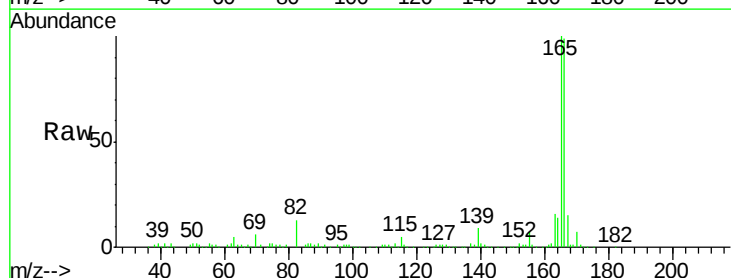
Tgt Ion:166 Resp: 132663

Ion Ratio Lower Upper

166 100

165 100.7 77.8 116.8

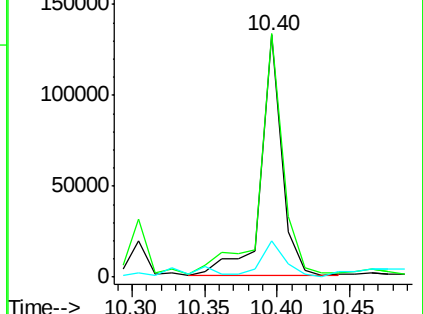
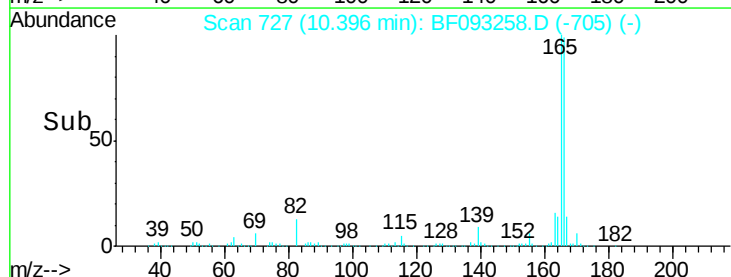
167 14.8 10.8 16.2

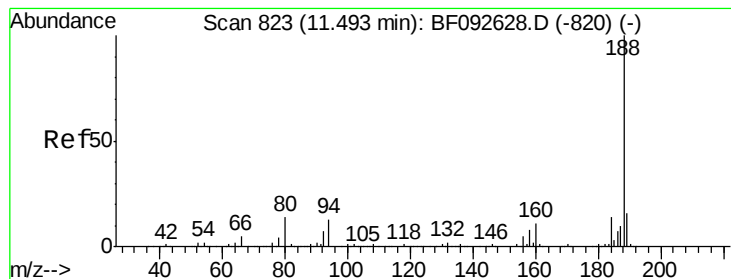


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 809

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

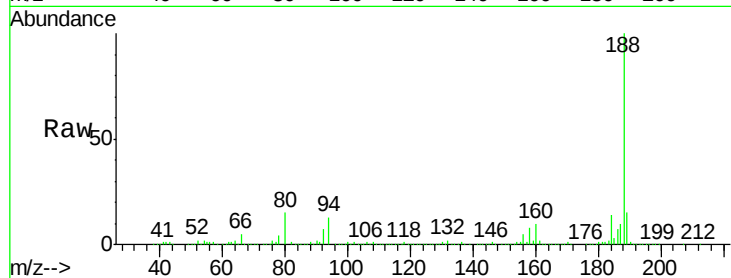
Tgt Ion:188 Resp: 368796

Ion Ratio Lower Upper

188 100

94 13.3 10.0 15.0

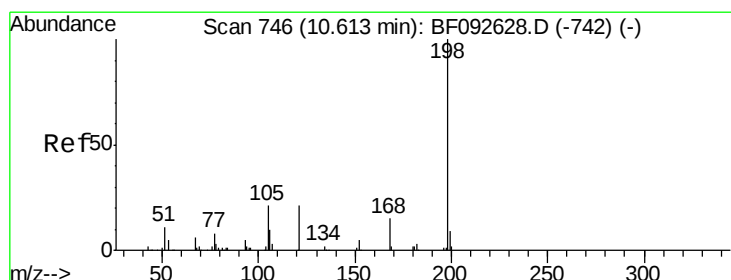
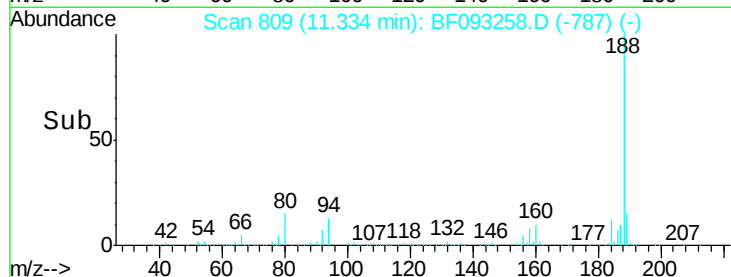
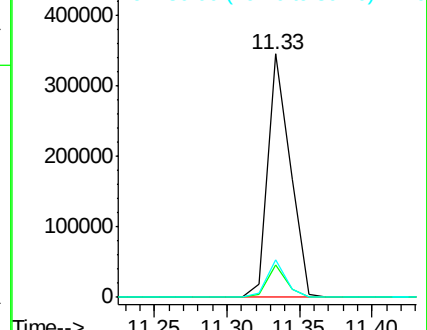
80 15.4 11.2 16.8



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



#64

4,6-Dinitro-2-methylphenol

Concen: 2.99 ng

RT: 10.64 min Scan# 748

Delta R.T. 0.14 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

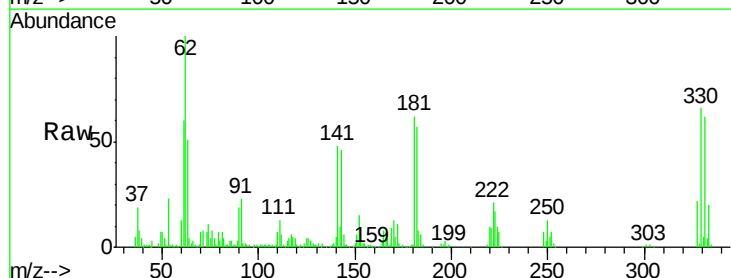
Tgt Ion:198 Resp: 769

Ion Ratio Lower Upper

198 100

51 1261.8 6.7 46.7#

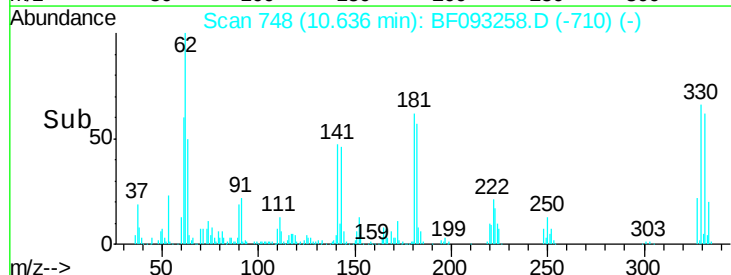
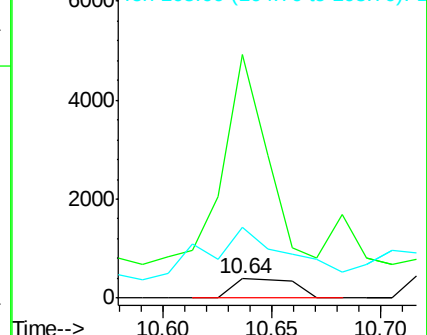
105 365.6 16.6 56.6#

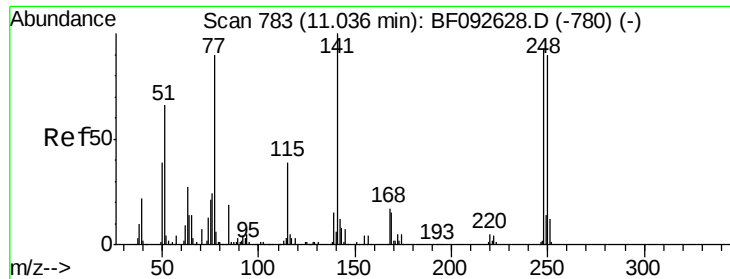


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

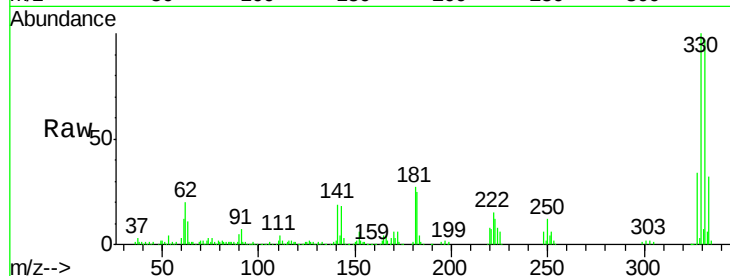




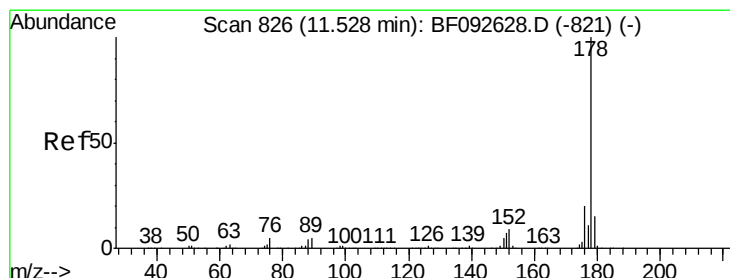
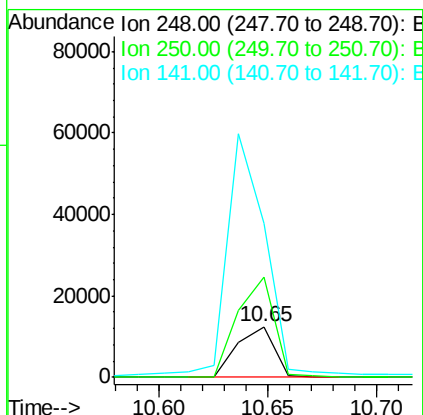
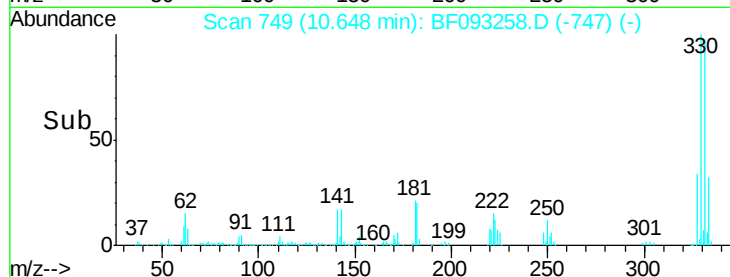
#66  
4-Bromophenyl-phenylether  
Concen: 3.80 ng  
RT: 10.65 min Scan# 749  
Delta R.T. -0.27 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-8-20170227

Tgt Ion:248 Resp: 14651  
Ion Ratio Lower Upper  
248 100  
250 197.9 76.9 115.3#  
141 303.8 68.2 102.4#

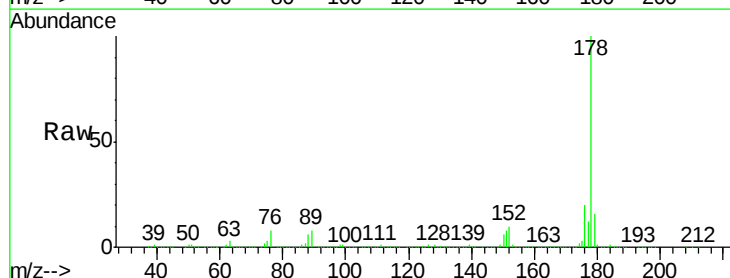


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

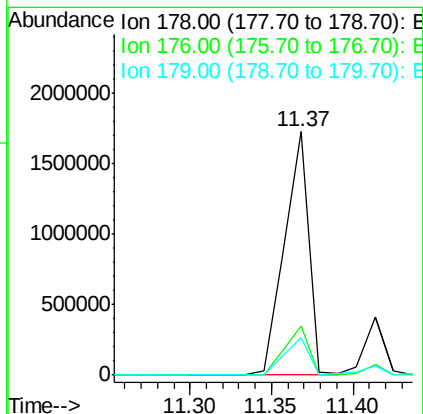
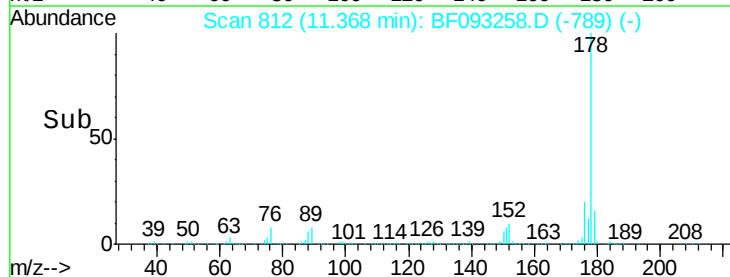


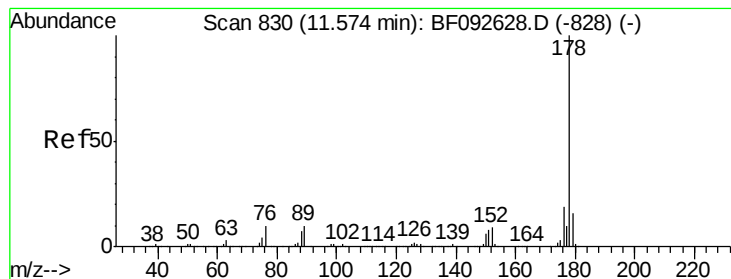
#70  
Phenanthrene  
Concen: 84.69 ng  
RT: 11.37 min Scan# 812  
Delta R.T. -0.03 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Tgt Ion:178 Resp: 1789370  
Ion Ratio Lower Upper  
178 100  
176 20.2 16.6 25.0  
179 15.6 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 16.83 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

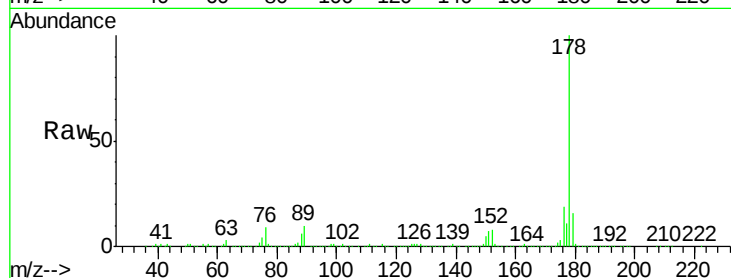
Tgt Ion:178 Resp: 357132

Ion Ratio Lower Upper

178 100

176 18.9 15.9 23.9

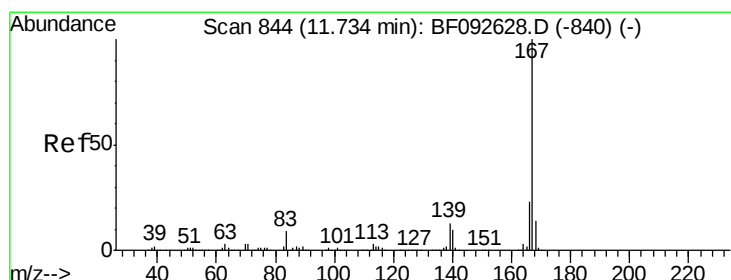
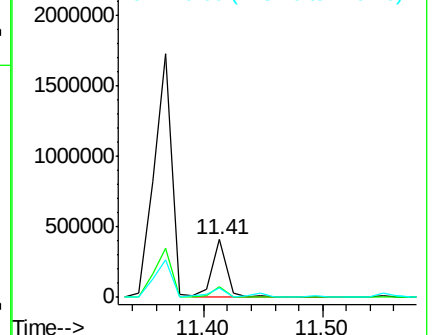
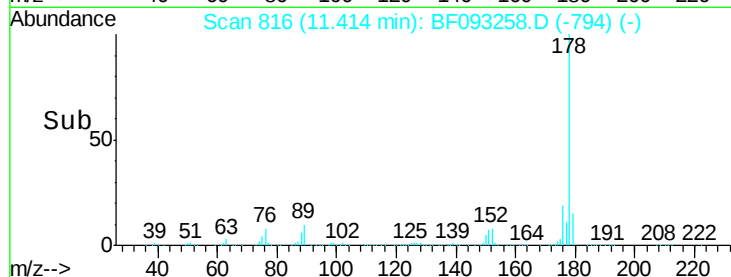
179 15.6 13.2 19.8



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



#72

Carbazole

Concen: 6.47 ng

RT: 11.57 min Scan# 830

Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

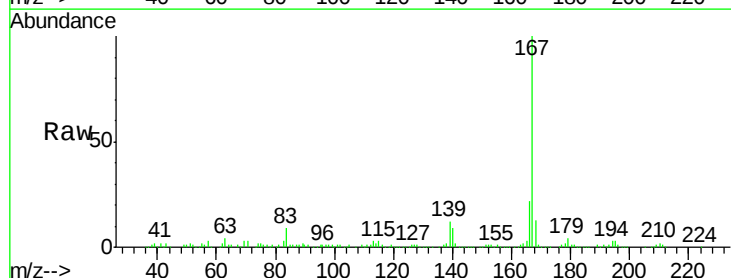
Tgt Ion:167 Resp: 131246

Ion Ratio Lower Upper

167 100

166 22.0 18.2 27.2

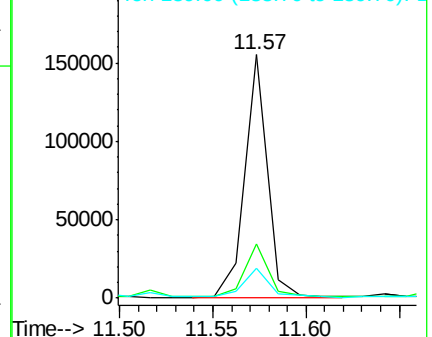
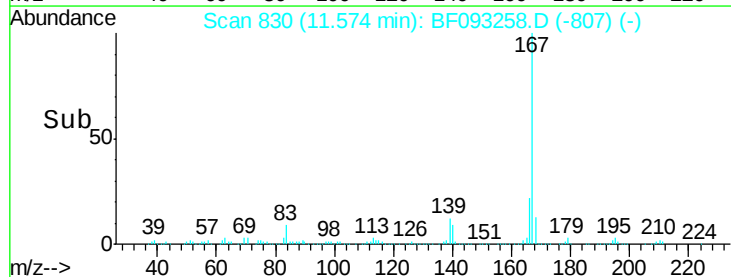
139 12.4 11.4 17.2

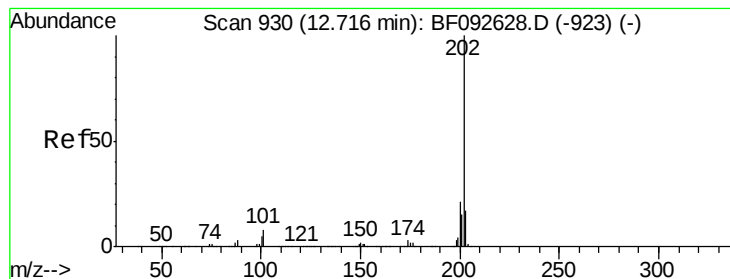


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 106.75 ng

RT: 12.56 min Scan# 916

Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

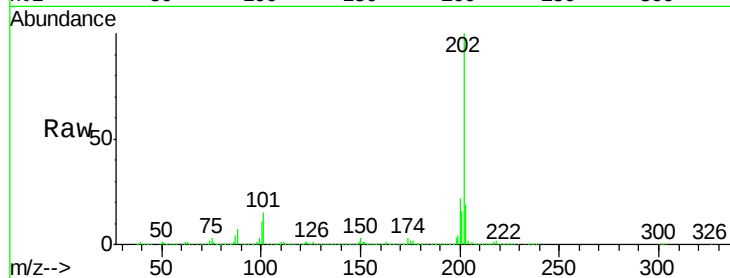
Tgt Ion:202 Resp: 2326502

Ion Ratio Lower Upper

202 100

101 14.6 0.0 34.6

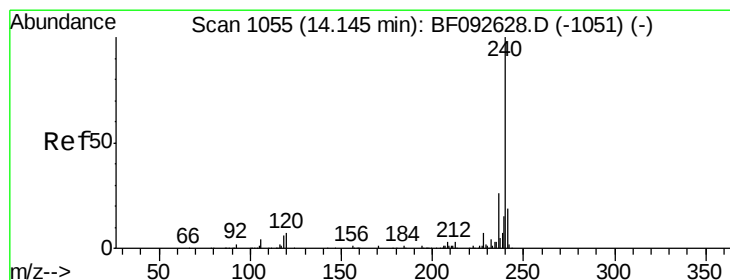
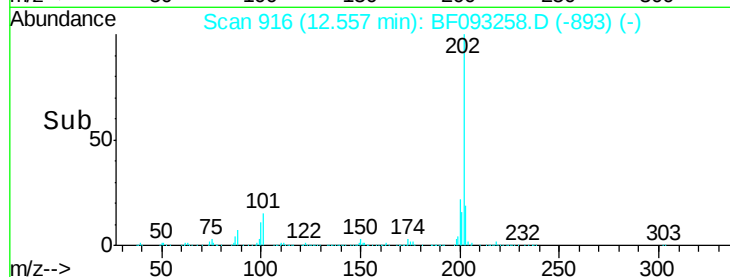
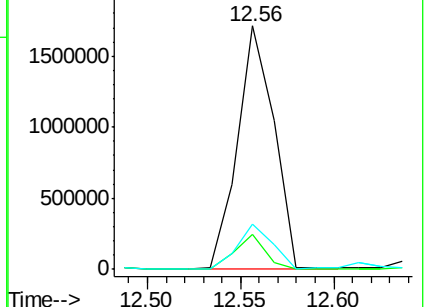
203 18.6 0.0 38.7



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: 13.99 min Scan# 1041

Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

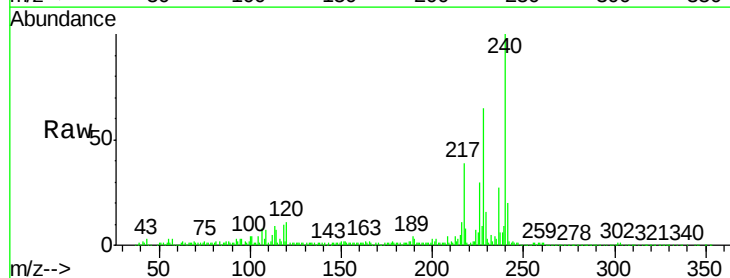
Tgt Ion:240 Resp: 293656

Ion Ratio Lower Upper

240 100

120 10.9 12.9 19.3#

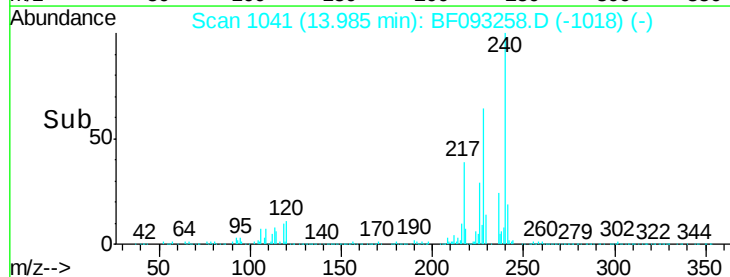
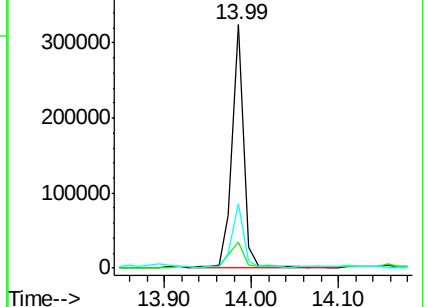
236 26.5 20.9 31.3

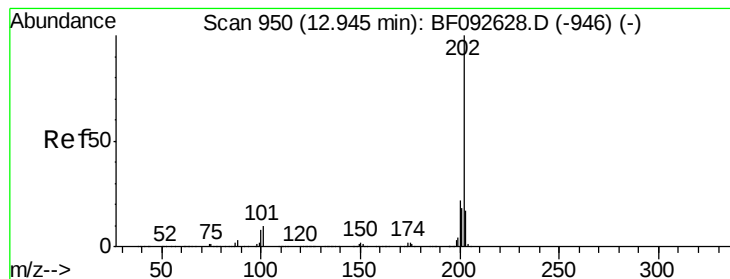


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 97.65 ng

RT: 12.79 min Scan# 936

Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

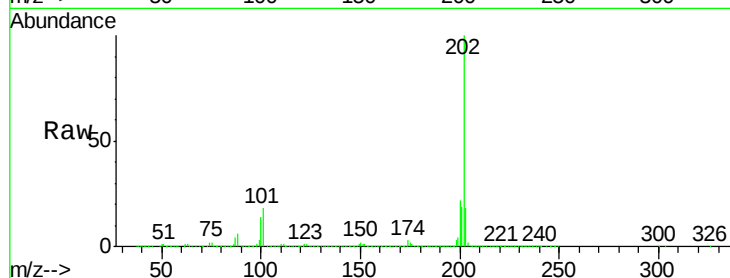
Tgt Ion:202 Resp: 2145922

Ion Ratio Lower Upper

202 100

200 22.5 17.7 26.5

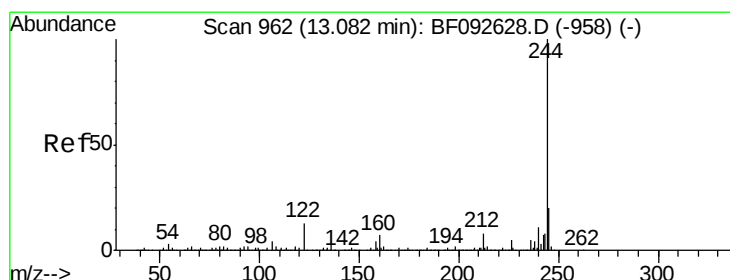
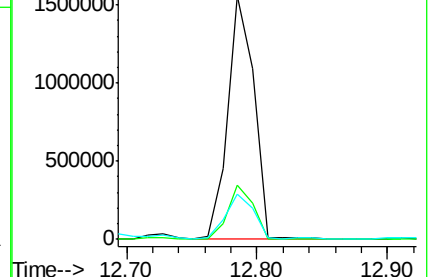
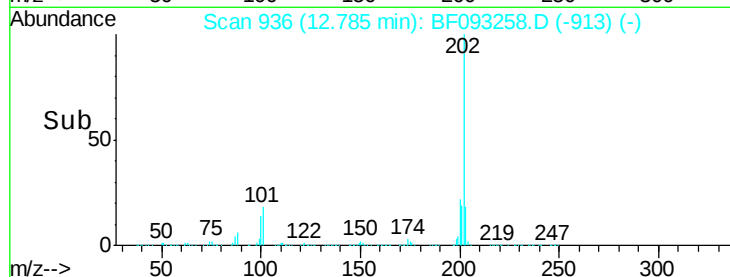
203 18.4 14.7 22.1



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: 67.82 ng

RT: 12.92 min Scan# 948

Delta R.T. -0.05 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

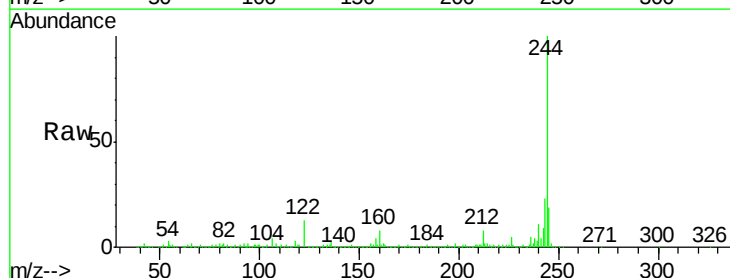
Tgt Ion:244 Resp: 847611

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

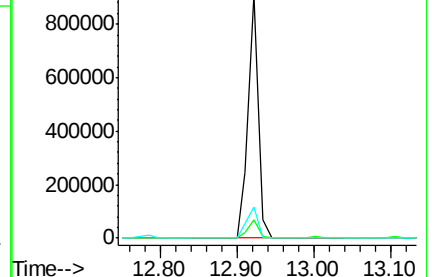
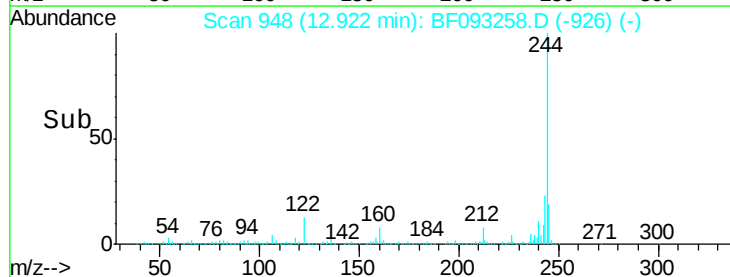
122 13.0 11.4 17.2

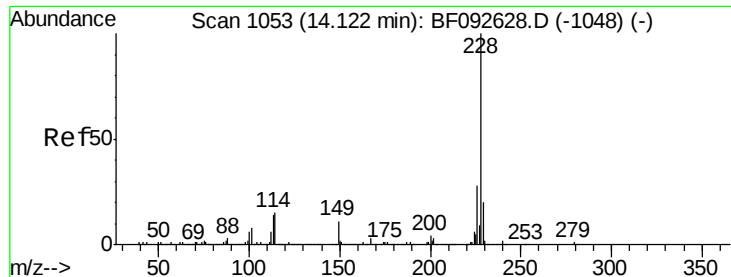


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

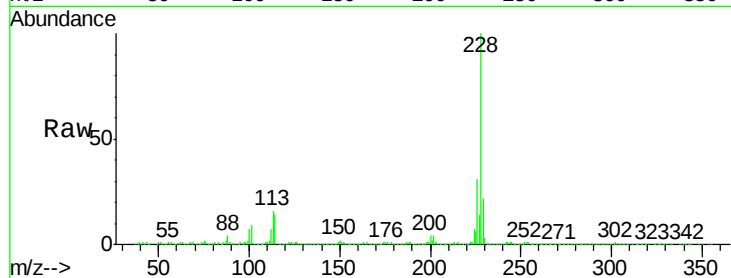




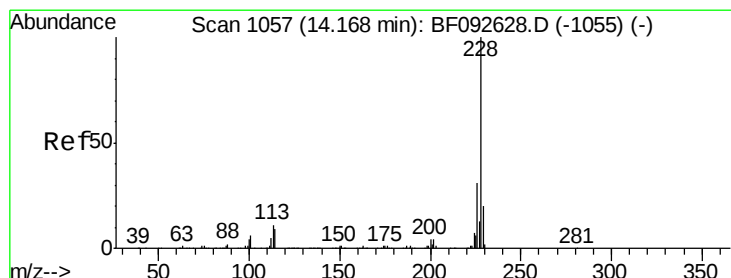
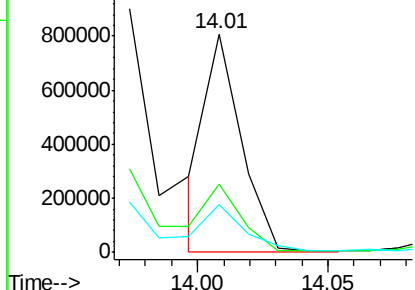
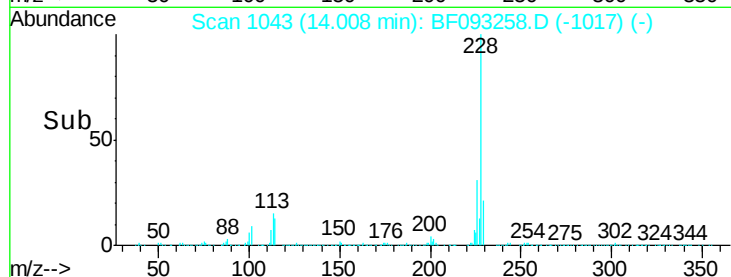
#80  
Benzo(a)anthracene  
Concen: 42.27 ng  
RT: 14.01 min Scan# 1043  
Delta R.T. -0.00 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
TK3-8-20170227

Tgt Ion: 228 Resp: 759120  
Ion Ratio Lower Upper  
228 100  
226 31.4 22.4 33.6  
229 22.1 16.2 24.4

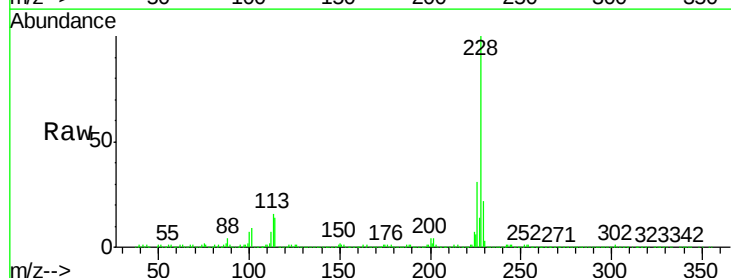


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

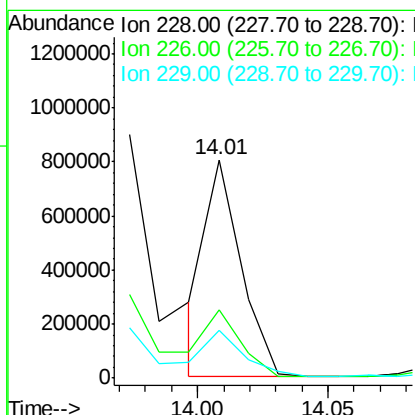
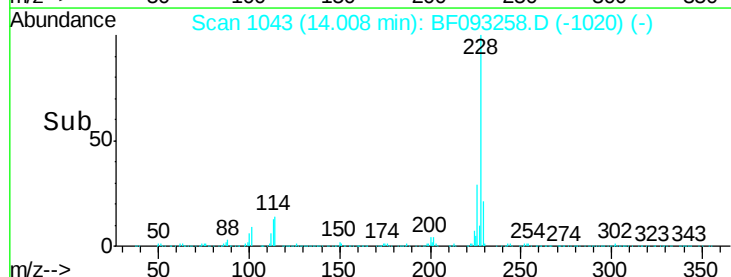


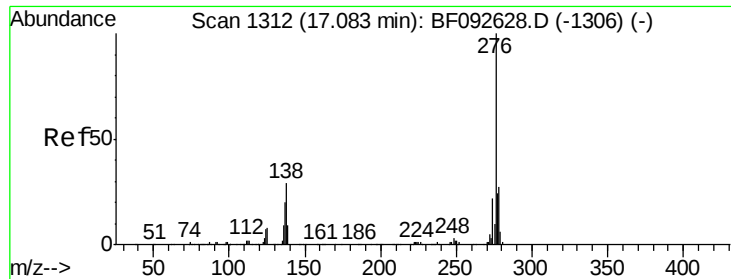
#82  
Chrysene  
Concen: 44.91 ng  
RT: 14.01 min Scan# 1043  
Delta R.T. -0.03 min  
Lab File: BF093258.D  
Acq: 28 Feb 2017 19:43

Tgt Ion: 228 Resp: 755278  
Ion Ratio Lower Upper  
228 100  
226 31.4 25.4 38.0  
229 22.1 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

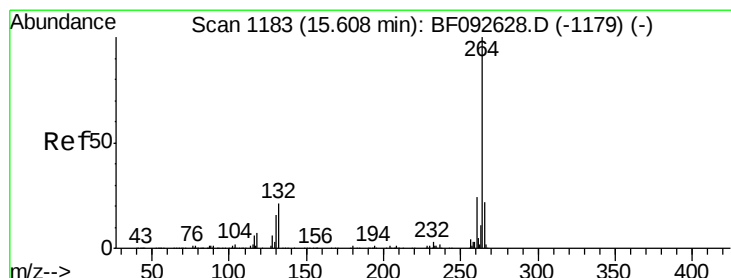
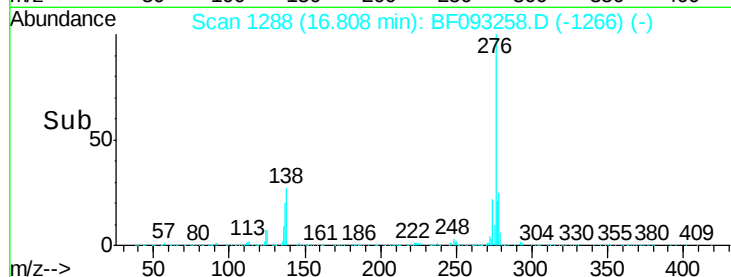
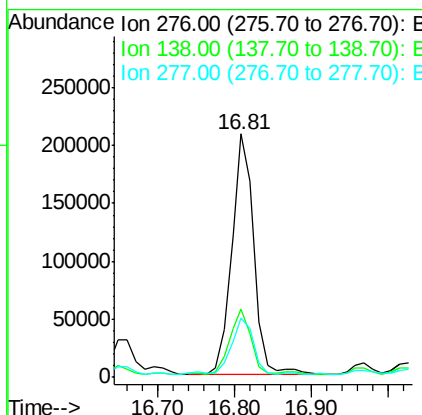
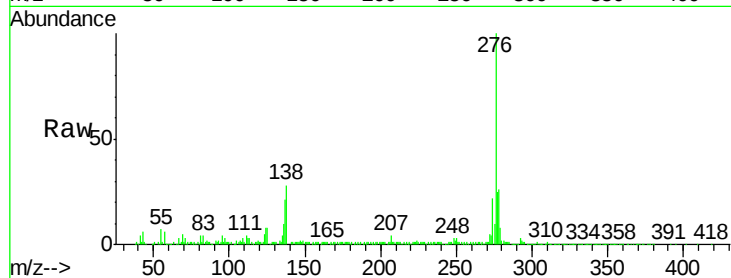




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 32.36 ng  
 RT: 16.81 min Scan# 1288  
 Delta R.T. -0.05 min  
 Lab File: BF093258.D  
 Acq: 28 Feb 2017 19:43

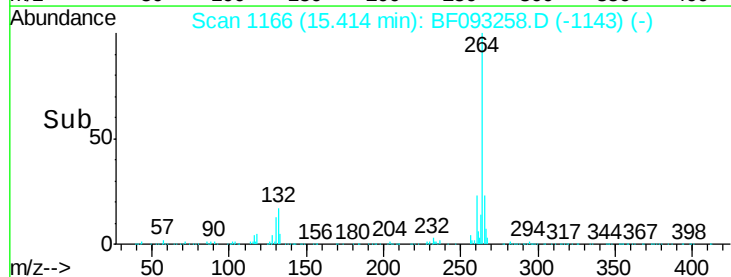
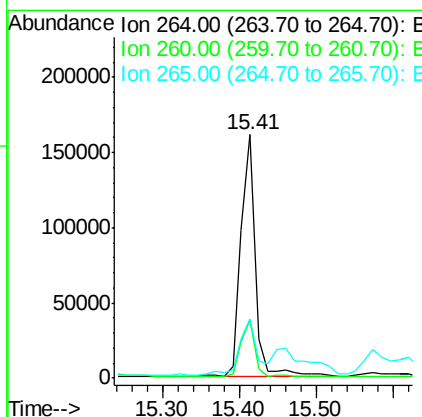
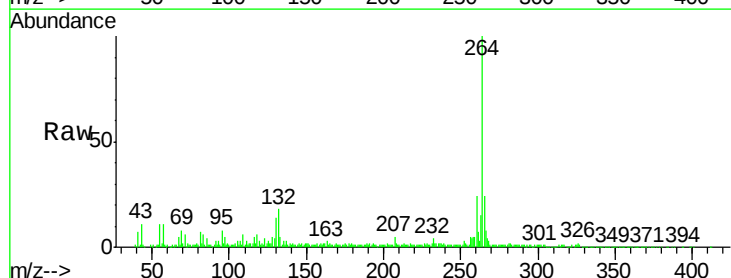
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TK3-8-20170227

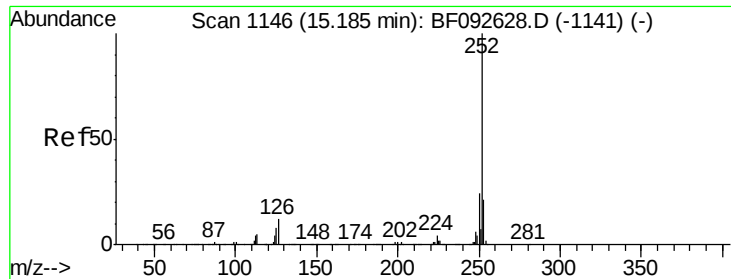
Tgt Ion: 276 Resp: 421466  
 Ion Ratio Lower Upper  
 276 100  
 138 26.3 21.8 32.6  
 277 23.5 20.2 30.4



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.41 min Scan# 1166  
 Delta R.T. -0.03 min  
 Lab File: BF093258.D  
 Acq: 28 Feb 2017 19:43

Tgt Ion: 264 Resp: 214109  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 19.2 28.8  
 265 24.3 17.4 26.0





#87

Benzo(b)fluoranthene

Concen: 96.15 ng

RT: 15.01 min Scan# 1131

Delta R.T. -0.02 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

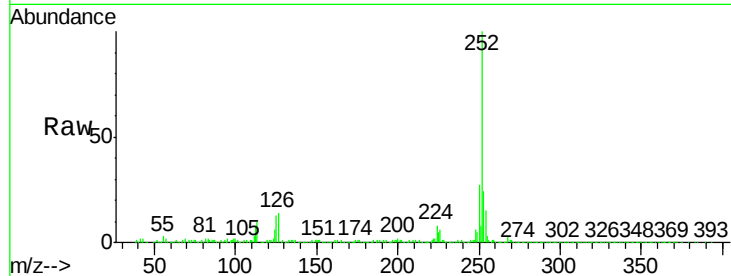
Tgt Ion:252 Resp: 1354970

Ion Ratio Lower Upper

252 100

253 23.5 18.2 27.4

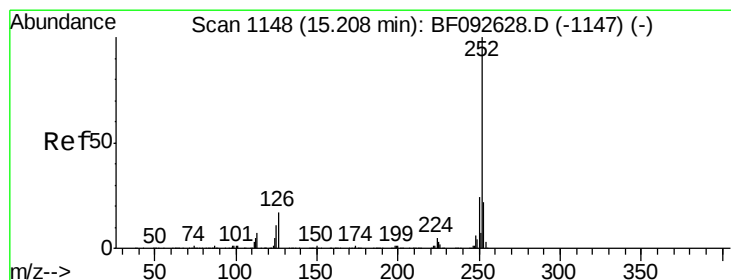
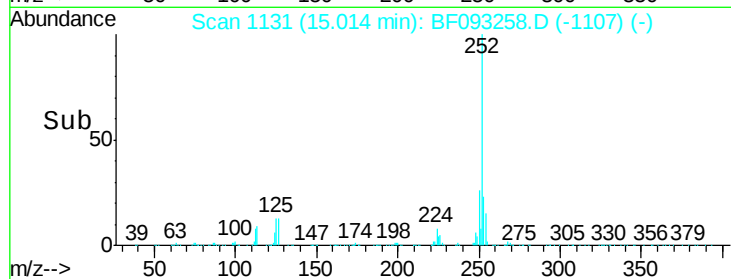
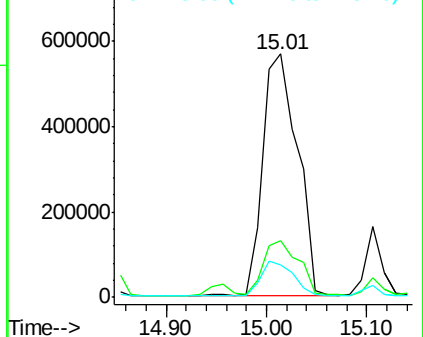
125 13.4 9.8 14.6



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: 111.36 ng

RT: 15.01 min Scan# 1131

Delta R.T. -0.06 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

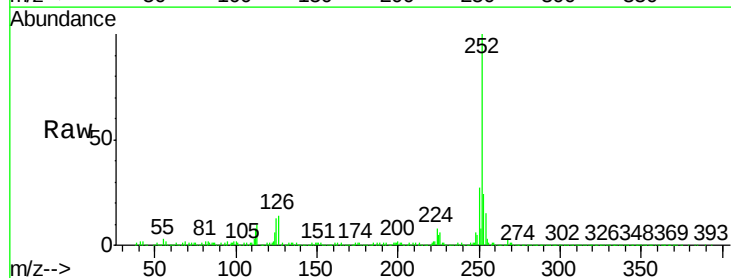
Tgt Ion:252 Resp: 1354970

Ion Ratio Lower Upper

252 100

253 23.5 18.5 27.7

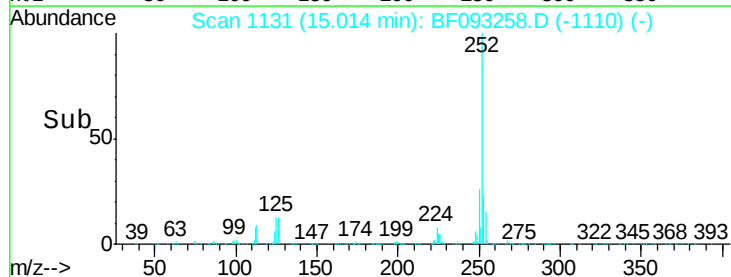
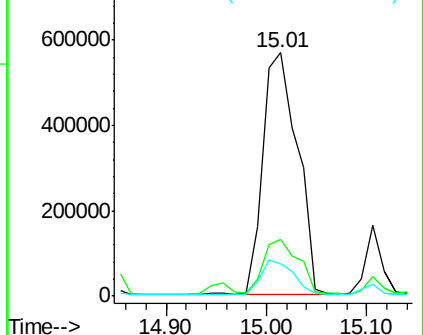
125 13.4 8.9 13.3#

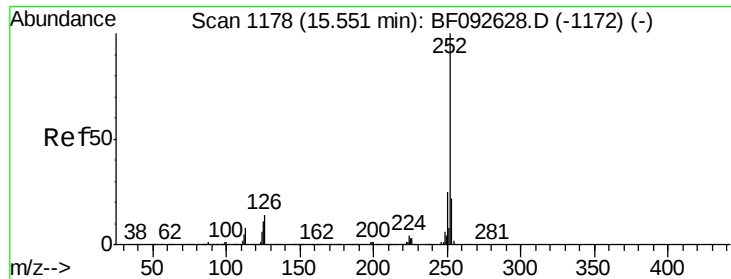


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 51.22 ng

RT: 15.36 min Scan# 1161

Delta R.T. -0.03 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227

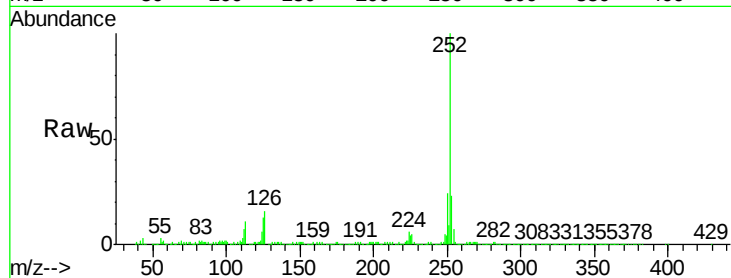
Tgt Ion: 252 Resp: 624420

Ion Ratio Lower Upper

252 100

253 23.1 18.2 27.2

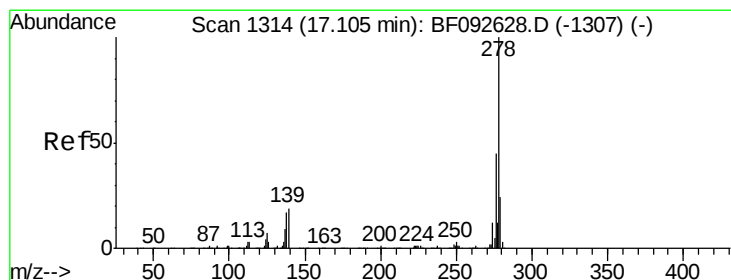
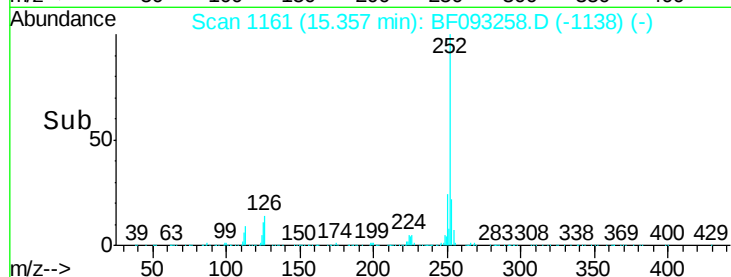
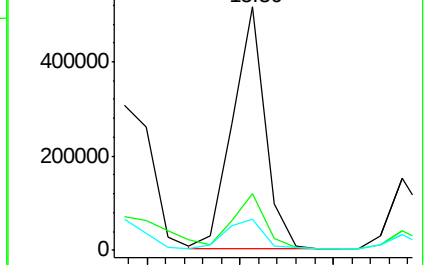
125 12.8 10.0 15.0



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



#90

Dibenzo(a,h)anthracene

Concen: 11.06 ng

RT: 16.81 min Scan# 1288

Delta R.T. -0.06 min

Lab File: BF093258.D

Acq: 28 Feb 2017 19:43

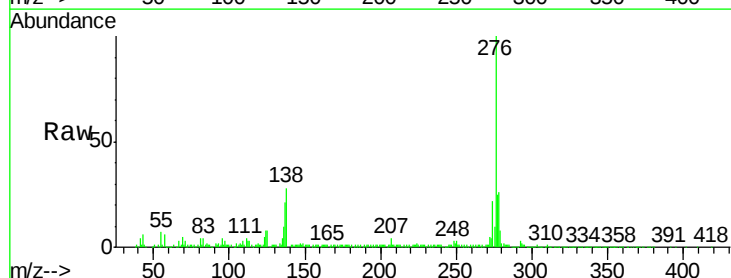
Tgt Ion: 278 Resp: 108967

Ion Ratio Lower Upper

278 100

139 0.0 14.8 22.2#

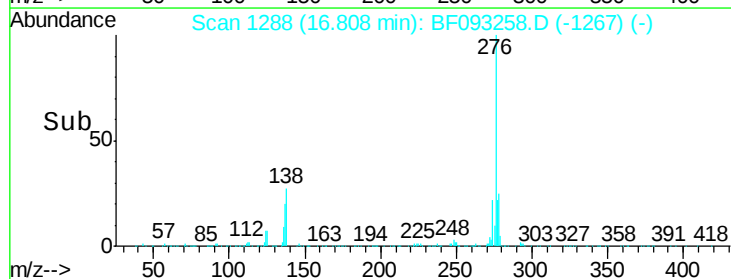
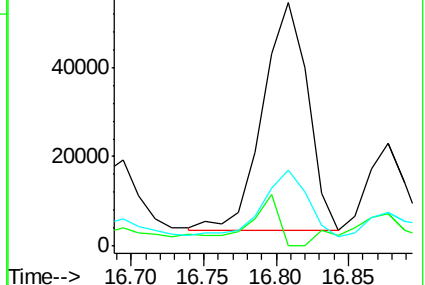
279 31.3 19.8 29.6#

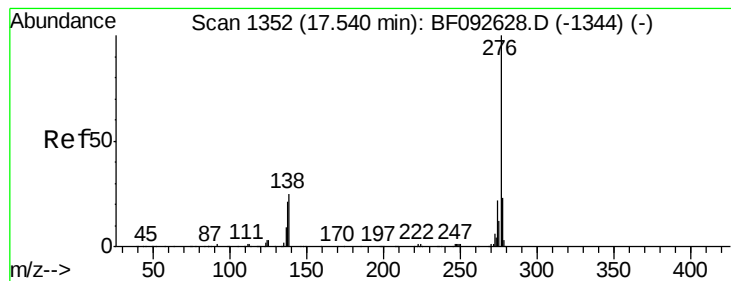


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 37.48 ng

RT: 17.23 min Scan# 1325

Delta R.T. -0.06 min

Lab File: BF093258.D

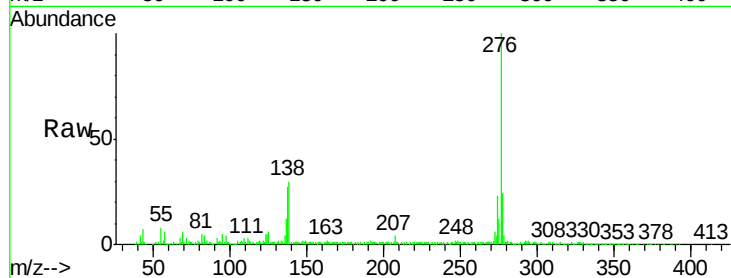
Acq: 28 Feb 2017 19:43

Instrument :

BNA\_F

ClientSampleId :

TK3-8-20170227



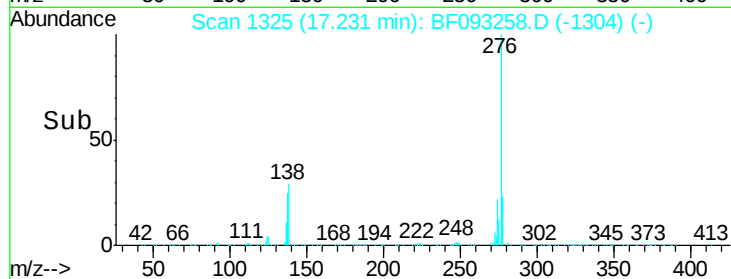
Tgt Ion: 276 Resp: 373056

Ion Ratio Lower Upper

276 100

277 24.0 19.2 28.8

138 29.7 16.0 24.0#



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

