

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050715\  
 Data File : BF078994.D  
 Acq On : 7 May 2015 14:24  
 Operator : TP/IZ  
 Sample : G2035-19  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-16-SS

Quant Time: May 08 01:04:41 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 08 00:46:40 2015  
 Response via : Initial Calibration

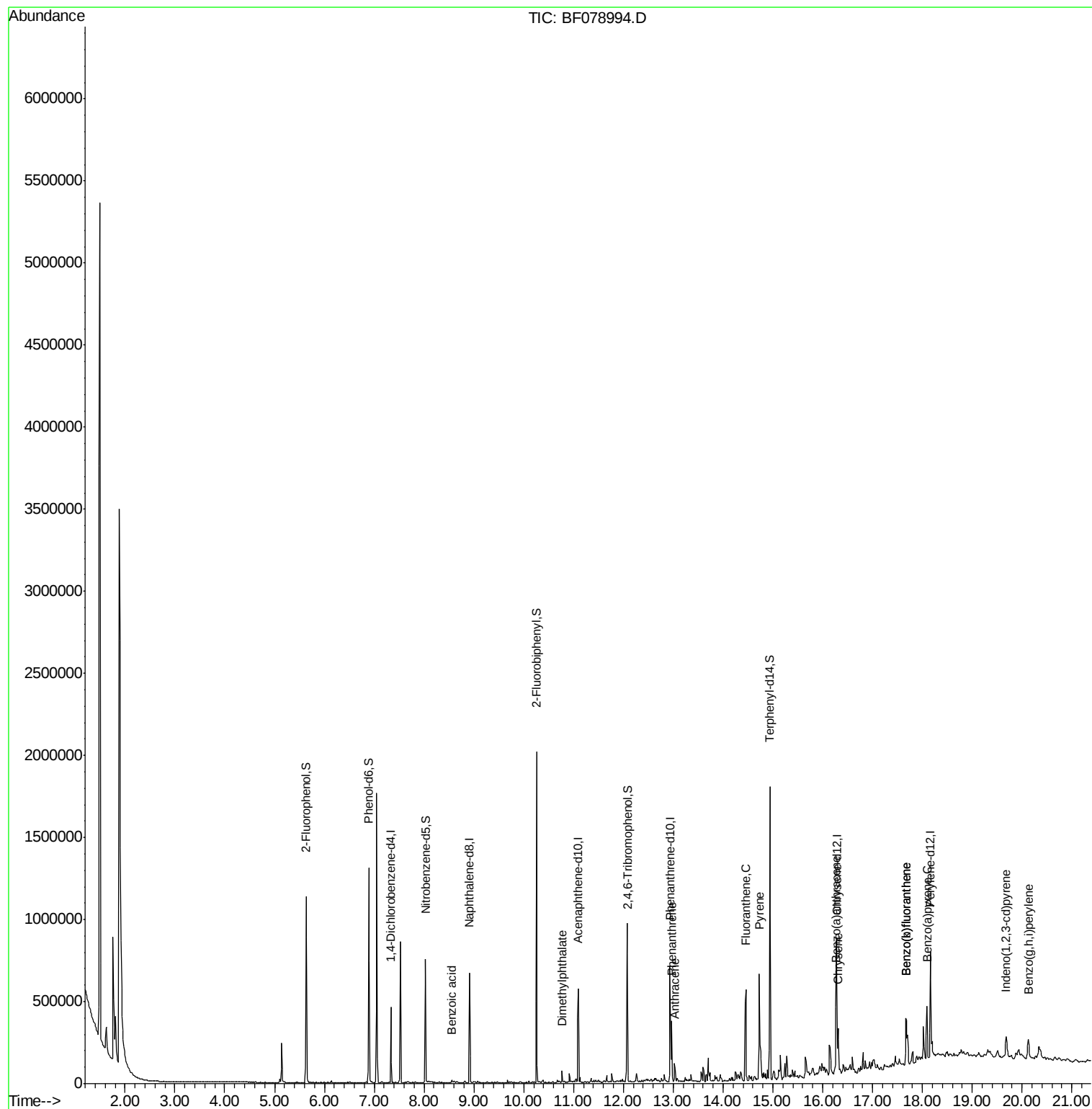
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.34  | 152  | 69974    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.91  | 136  | 294763   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 11.10 | 164  | 148714   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.94 | 188  | 287628   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 16.29 | 240  | 318503   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12            | 18.16 | 264  | 345208   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.63  | 112  | 431630   | 106.18 | ng    | 0.00     |
| 7) Phenol-d6                | 6.89  | 99   | 554657   | 103.23 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.03  | 82   | 325135   | 63.39  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.08 | 330  | 164166   | 102.04 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.26 | 172  | 617282   | 57.83  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.94 | 244  | 701035   | 52.70  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 32) Benzoic acid            | 8.56  | 122  | 3789     | 7.56   | ng    | # 85     |
| 49) Dimethylphthalate       | 10.76 | 163  | 27461    | 2.52   | ng    | 99       |
| 70) Phenanthrene            | 12.97 | 178  | 153302   | 9.53   | ng    | 98       |
| 71) Anthracene              | 13.03 | 178  | 56786    | 3.60   | ng    | 97       |
| 74) Fluoranthene            | 14.46 | 202  | 324322   | 19.34  | ng    | 92       |
| 77) Pyrene                  | 14.73 | 202  | 280721   | 15.30  | ng    | 97       |
| 80) Benzo(a)anthracene      | 16.26 | 228  | 183658   | 10.53  | ng    | 97       |
| 82) Chrysene                | 16.31 | 228  | 147805   | 8.81   | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 19.68 | 276  | 104848   | 4.91   | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 17.68 | 252  | 281311   | 14.89  | ng    | 98       |
| 88) Benzo(k)fluoranthene    | 17.68 | 252  | 283349   | 15.49  | ng    | 98       |
| 89) Benzo(a)pyrene          | 18.09 | 252  | 161037   | 9.26   | ng    | # 96     |
| 91) Benzo(g,h,i)perylene    | 20.13 | 276  | 94772    | 5.11   | ng    | 96       |

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

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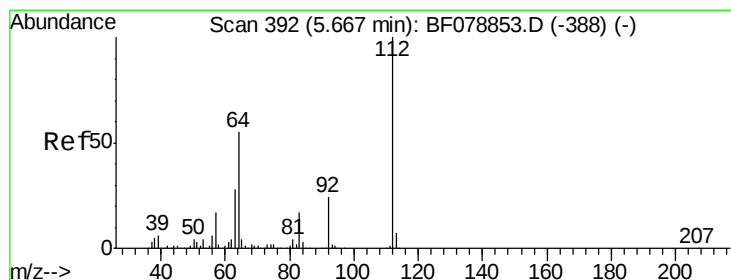
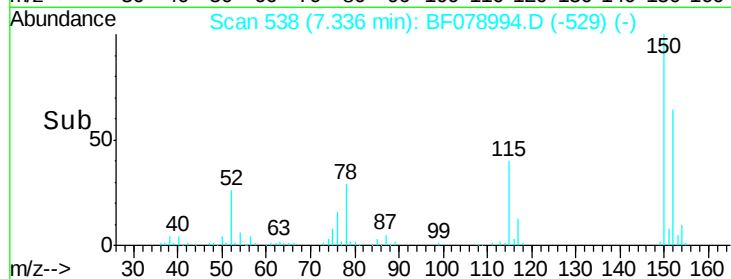
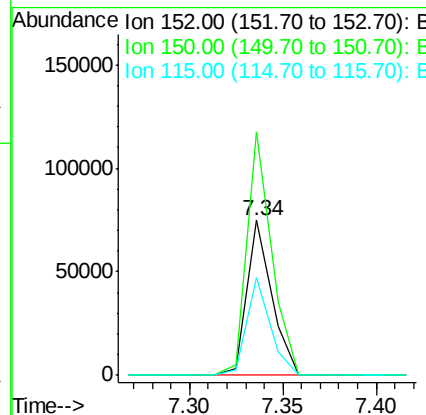
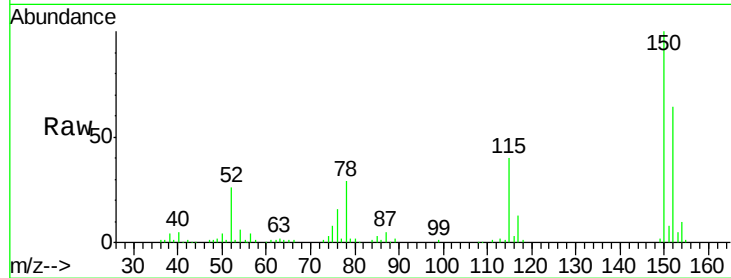


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.34 min Scan# 538  
Delta R.T. -0.00 min  
Lab File: BF078994.D  
Acq: 7 May 2015 14:24

Instrument :  
BNA\_F  
ClientSampleId :  
TP-16-SS

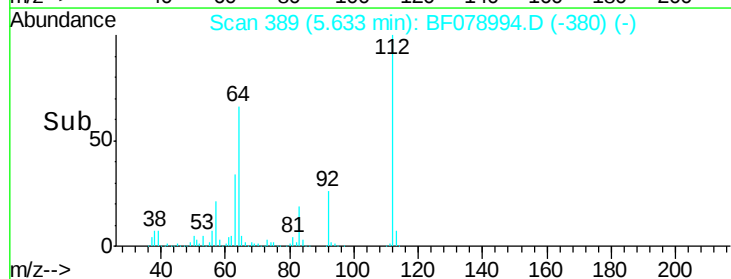
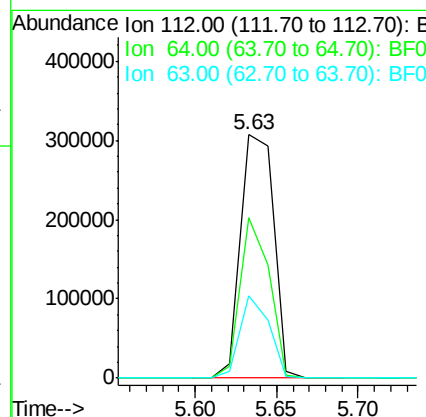
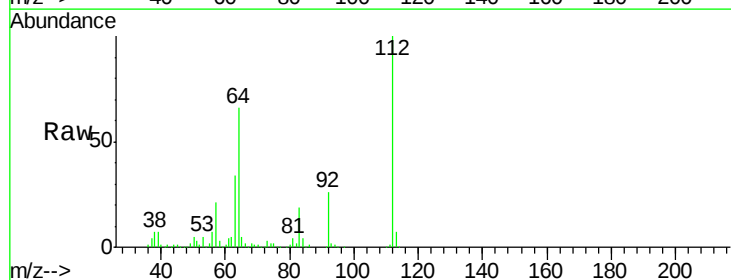
Tgt Ion:152 Resp: 69974  
Ion Ratio Lower Upper  
152 100  
150 156.9 122.0 183.0  
115 63.1 46.3 69.5



#5

2-Fluorophenol  
Concen: 106.18 ng  
RT: 5.63 min Scan# 389  
Delta R.T. -0.00 min  
Lab File: BF078994.D  
Acq: 7 May 2015 14:24

Tgt Ion:112 Resp: 431630  
Ion Ratio Lower Upper  
112 100  
64 66.0 53.5 80.3  
63 34.0 27.5 41.3





#7

Phenol-d6

Concen: 103.23 ng

RT: 6.89 min Scan# 499

Delta R.T. -0.00 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

Instrument :

BNA\_F

ClientSampleId :

TP-16-SS

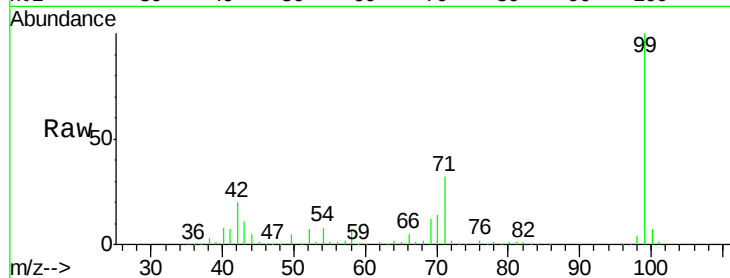
Tgt Ion: 99 Resp: 554657

Ion Ratio Lower Upper

99 100

42 20.3 12.8 19.2#

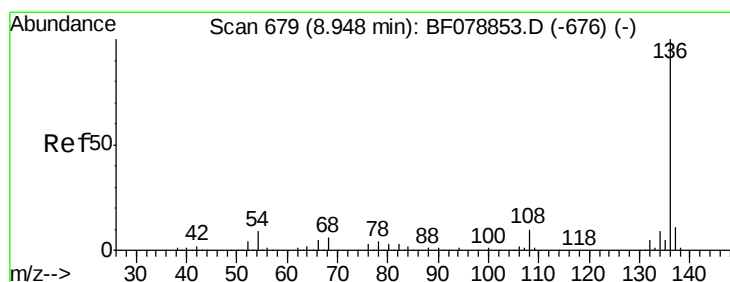
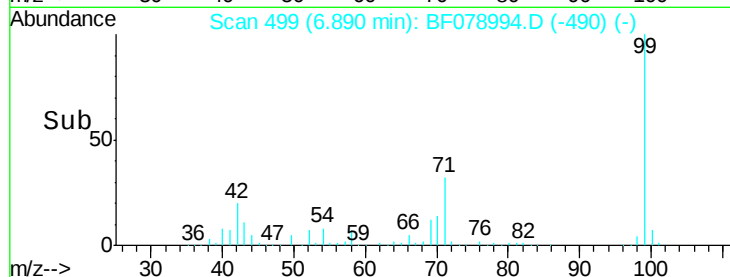
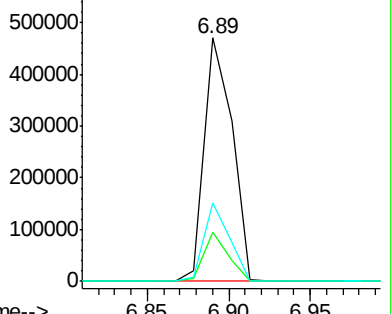
71 32.3 23.4 35.2



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.91 min Scan# 676

Delta R.T. -0.00 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

Tgt Ion: 136 Resp: 294763

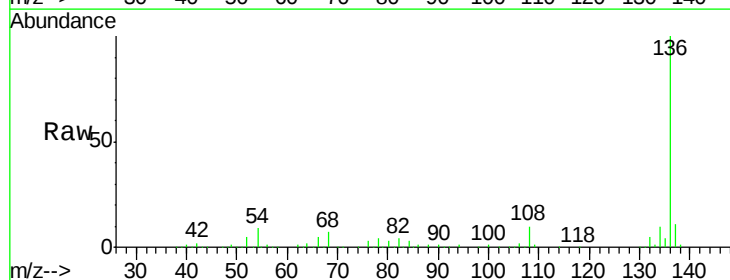
Ion Ratio Lower Upper

136 100

137 11.2 8.7 13.1

54 8.6 5.8 8.8

68 6.5 4.2 6.4#

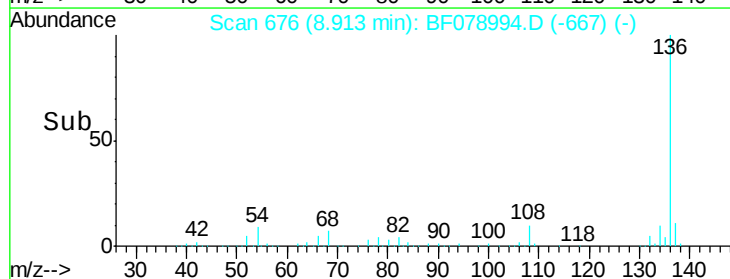
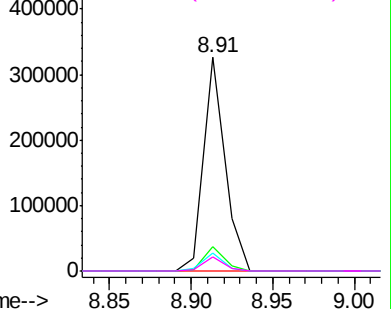


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

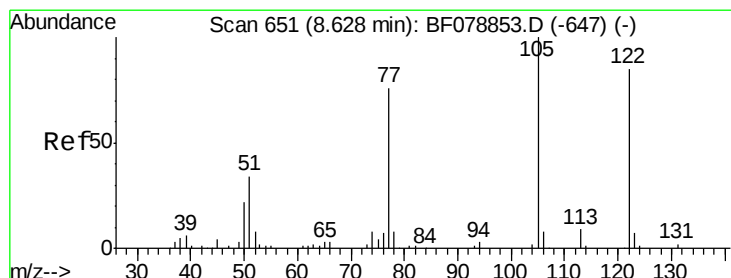
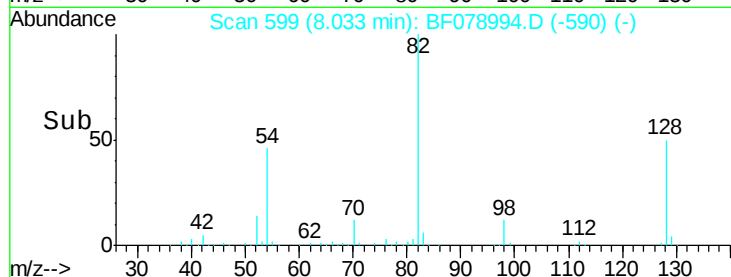
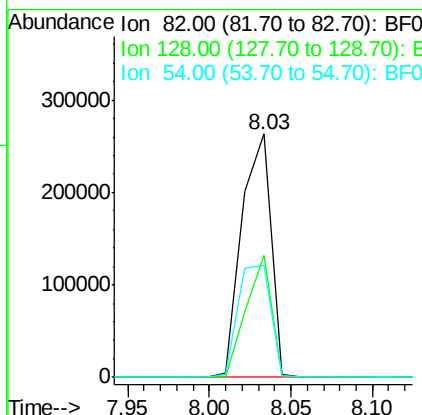
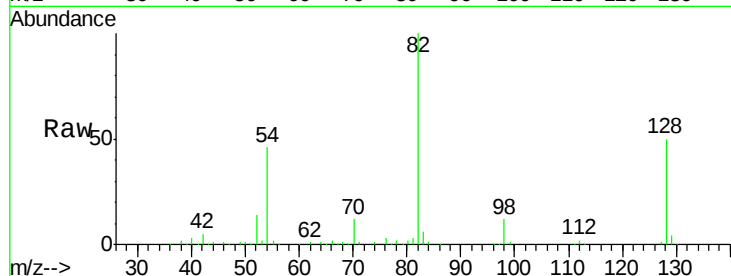




#23  
 Nitrobenzene-d5  
 Concen: 63.39 ng  
 RT: 8.03 min Scan# 599  
 Delta R.T. -0.00 min  
 Lab File: BF078994.D  
 Acq: 7 May 2015 14:24

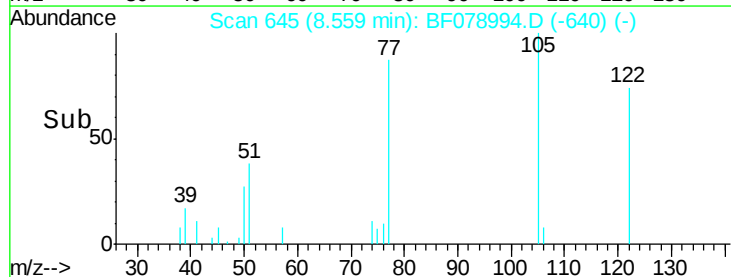
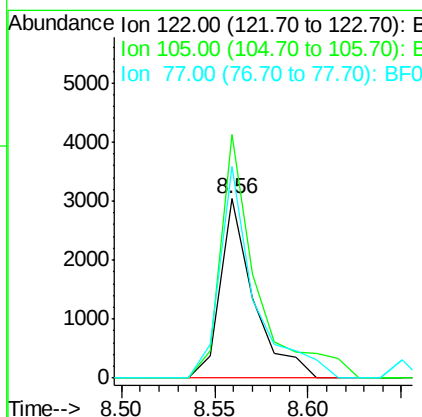
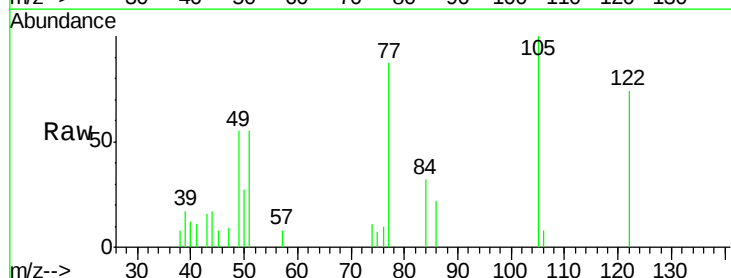
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-16-SS

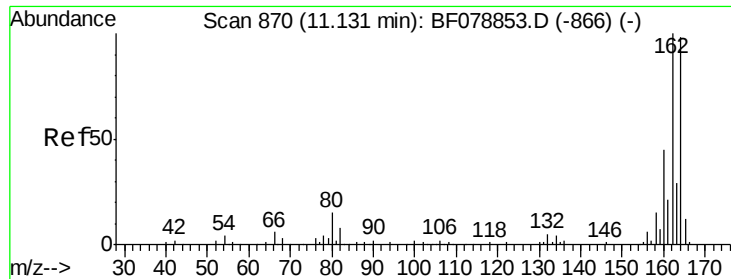
Tgt Ion: 82 Resp: 325135  
 Ion Ratio Lower Upper  
 82 100  
 128 50.0 30.0 45.0#  
 54 45.8 46.4 69.6#



#32  
 Benzoic acid  
 Concen: 7.56 ng  
 RT: 8.56 min Scan# 645  
 Delta R.T. -0.05 min  
 Lab File: BF078994.D  
 Acq: 7 May 2015 14:24

Tgt Ion: 122 Resp: 3789  
 Ion Ratio Lower Upper  
 122 100  
 105 135.7 107.1 147.1  
 77 118.2 73.9 113.9#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 11.10 min Scan# 867

Delta R.T. -0.00 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

Instrument :

BNA\_F

ClientSampleId :

TP-16-SS

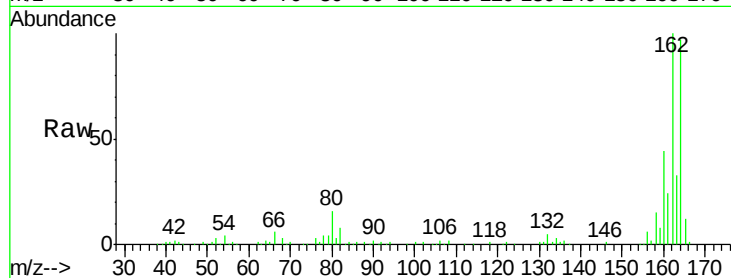
Tgt Ion:164 Resp: 148714

Ion Ratio Lower Upper

164 100

162 103.4 82.7 124.1

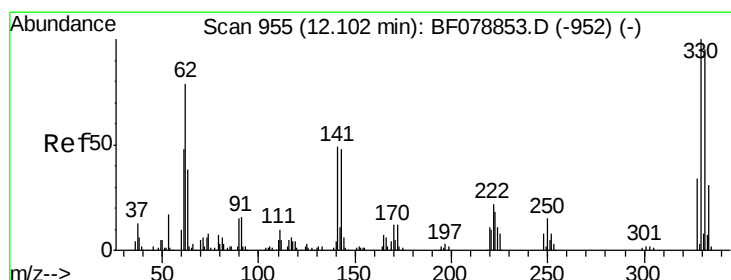
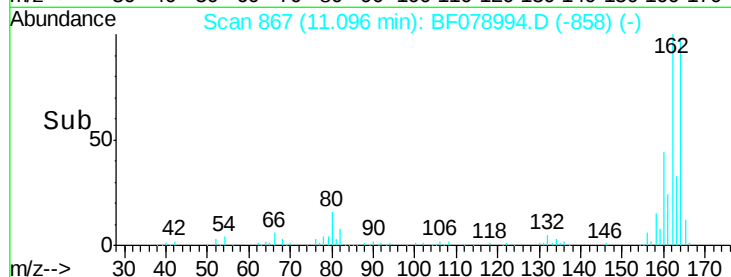
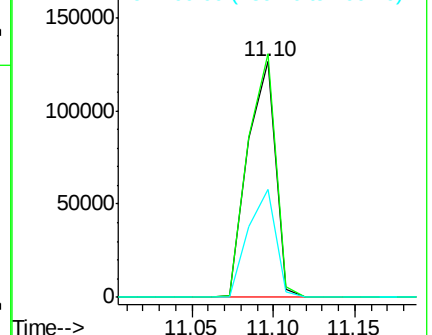
160 45.9 35.8 53.8



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: 102.04 ng

RT: 12.08 min Scan# 953

Delta R.T. -0.00 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

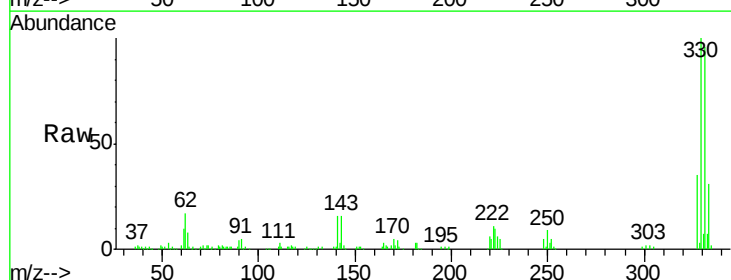
Tgt Ion:330 Resp: 164166

Ion Ratio Lower Upper

330 100

332 96.1 0.0 0.0#

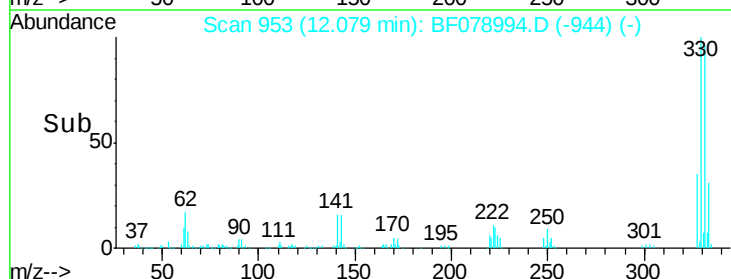
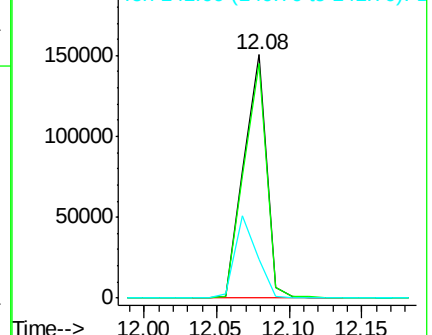
141 33.1 0.0 0.0#



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

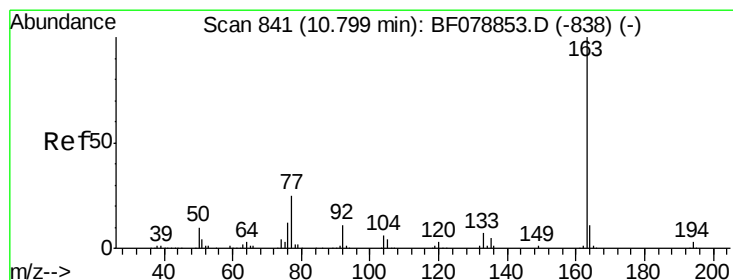
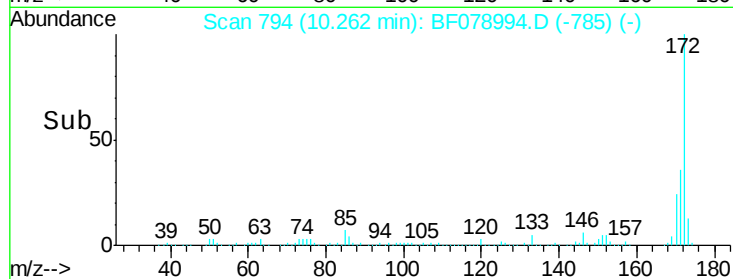
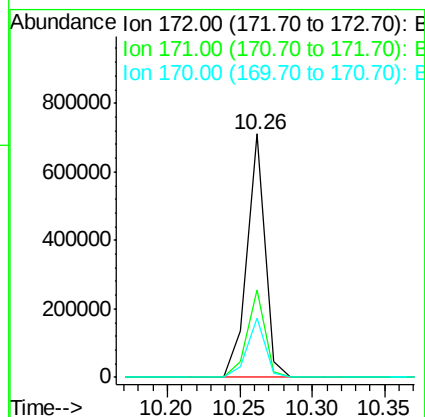
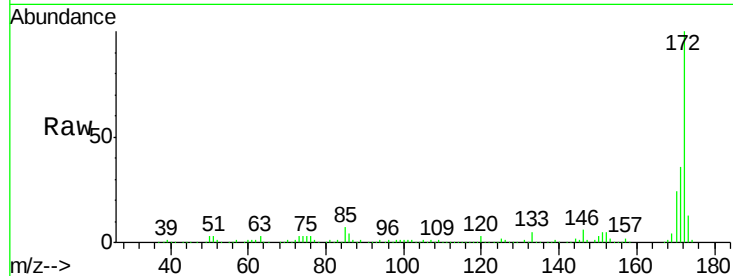




#44  
2-Fluorobiphenyl  
Concen: 57.83 ng  
RT: 10.26 min Scan# 794  
Delta R.T. -0.00 min  
Lab File: BF078994.D  
Acq: 7 May 2015 14:24

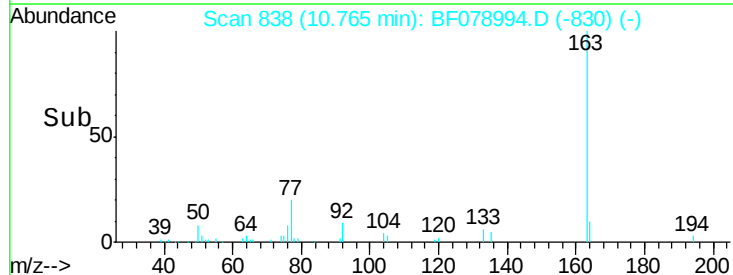
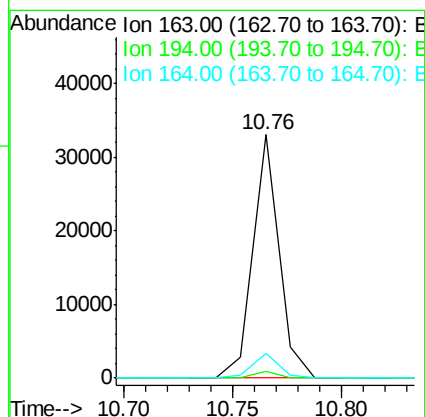
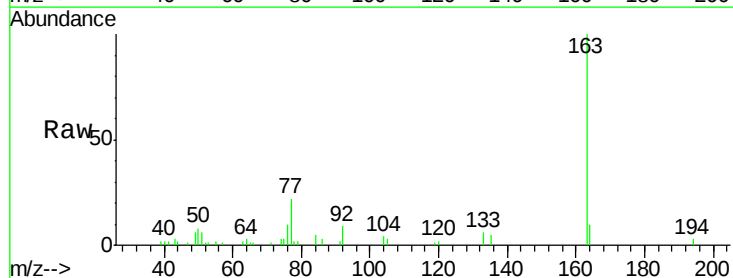
Instrument :  
BNA\_F  
ClientSampleId :  
TP-16-SS

Tgt Ion:172 Resp: 617282  
Ion Ratio Lower Upper  
172 100  
171 35.8 27.9 41.9  
170 24.3 19.4 29.0



#49  
Dimethylphthalate  
Concen: 2.52 ng  
RT: 10.76 min Scan# 838  
Delta R.T. -0.01 min  
Lab File: BF078994.D  
Acq: 7 May 2015 14:24

Tgt Ion:163 Resp: 27461  
Ion Ratio Lower Upper  
163 100  
194 3.0 2.6 4.0  
164 10.4 8.1 12.1





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.94 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

Instrument :

BNA\_F

ClientSampleId :

TP-16-SS

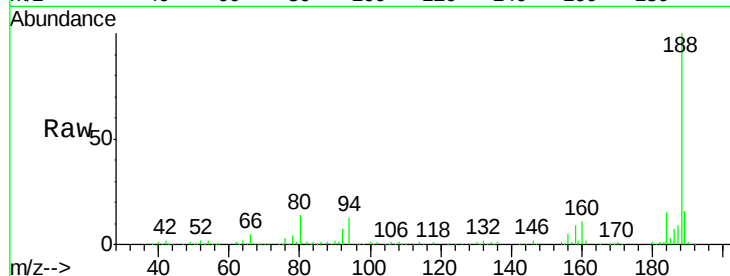
Tgt Ion:188 Resp: 287628

Ion Ratio Lower Upper

188 100

94 13.5 8.2 12.2#

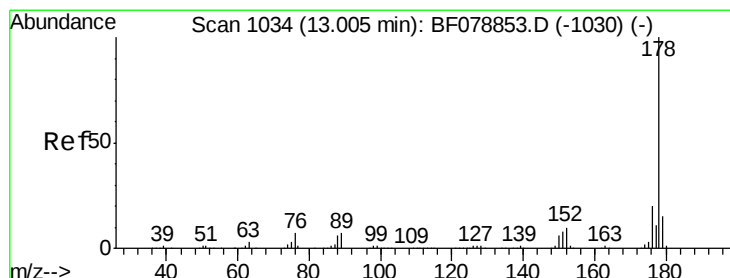
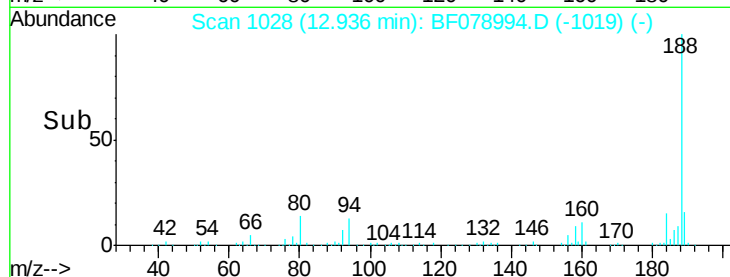
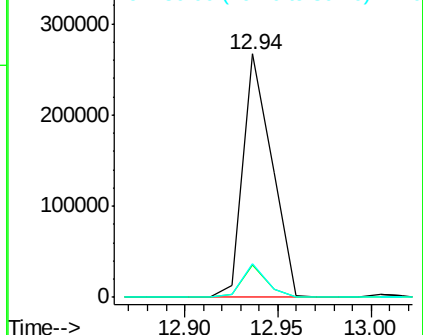
80 13.7 8.9 13.3#



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: 9.53 ng

RT: 12.97 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

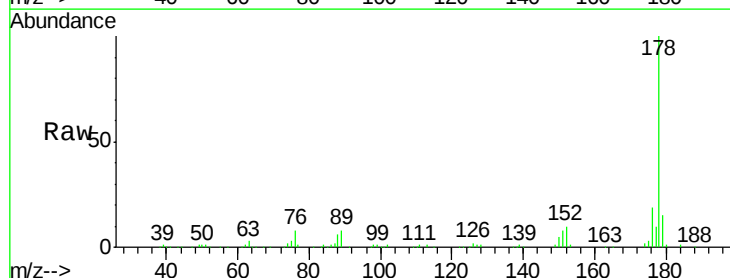
Tgt Ion:178 Resp: 153302

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

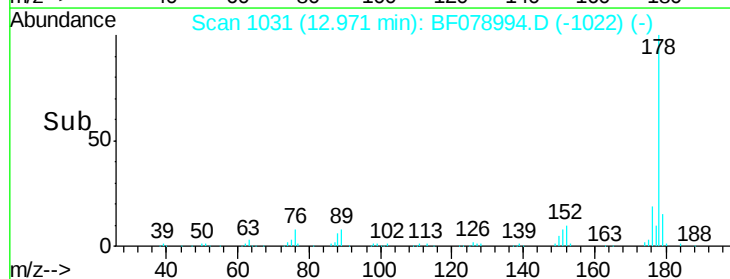
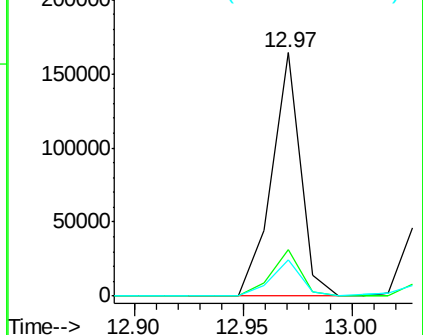
179 14.7 12.5 18.7

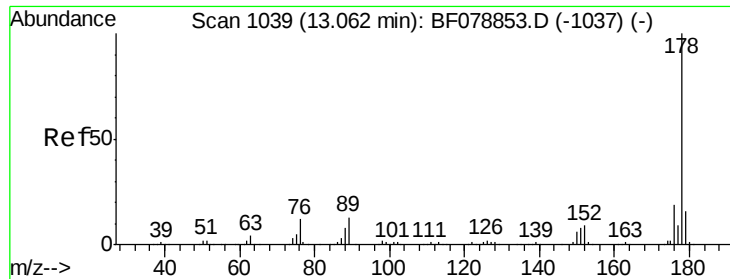


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

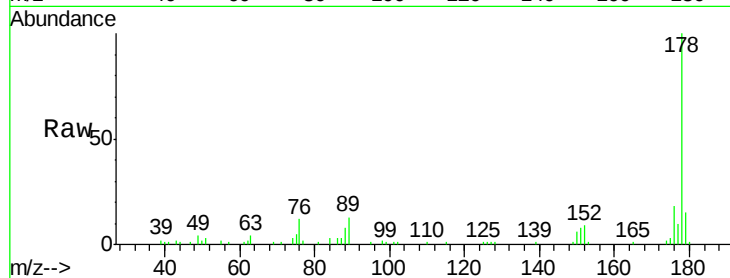




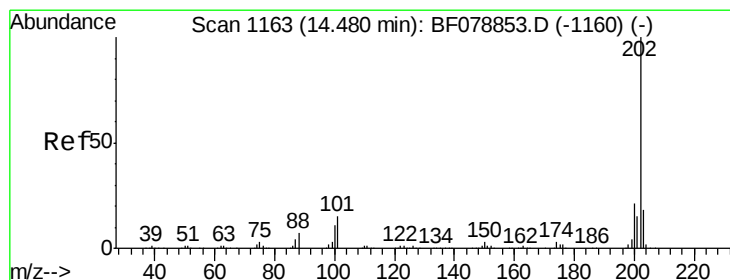
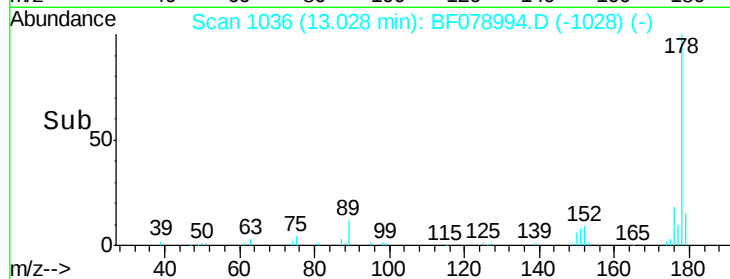
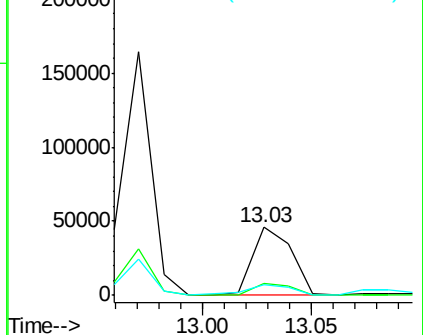
#71  
 Anthracene  
 Concen: 3.60 ng  
 RT: 13.03 min Scan# 1036  
 Delta R.T. -0.01 min  
 Lab File: BF078994.D  
 Acq: 7 May 2015 14:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-16-SS

Tgt Ion:178 Resp: 56786  
 Ion Ratio Lower Upper  
 178 100  
 176 17.7 15.5 23.3  
 179 15.4 12.7 19.1

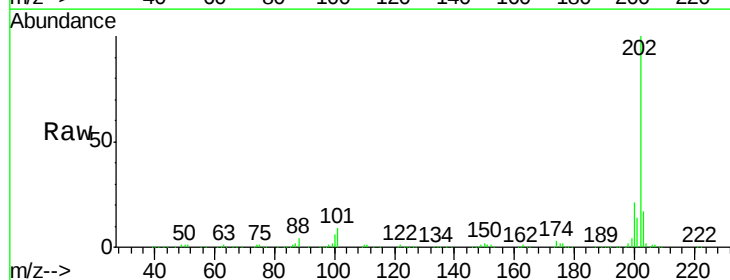


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

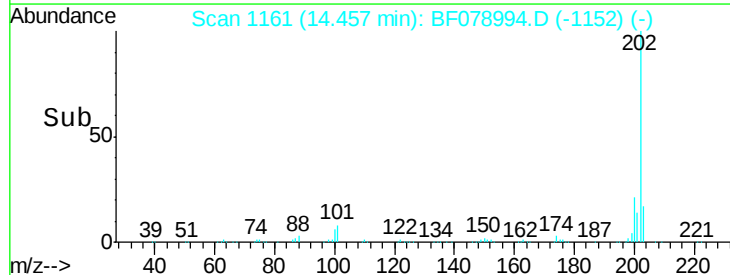
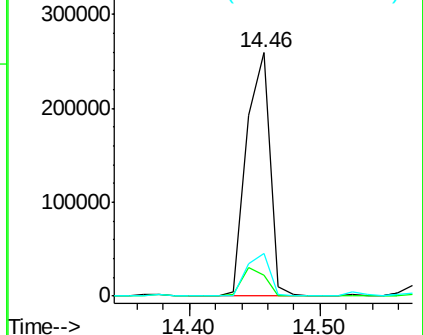


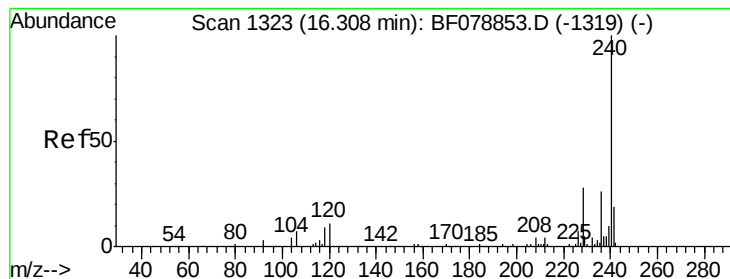
#74  
 Fluoranthene  
 Concen: 19.34 ng  
 RT: 14.46 min Scan# 1161  
 Delta R.T. -0.00 min  
 Lab File: BF078994.D  
 Acq: 7 May 2015 14:24

Tgt Ion:202 Resp: 324322  
 Ion Ratio Lower Upper  
 202 100  
 101 8.6 0.0 34.6  
 203 17.4 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.29 min Scan# 1321

Delta R.T. 0.01 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

Instrument :

BNA\_F

ClientSampleId :

TP-16-SS

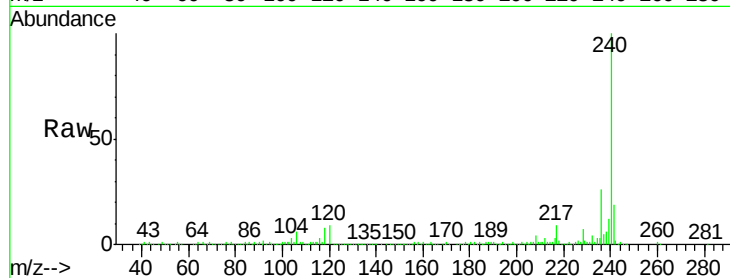
Tgt Ion:240 Resp: 318503

Ion Ratio Lower Upper

240 100

120 9.0 9.7 14.5#

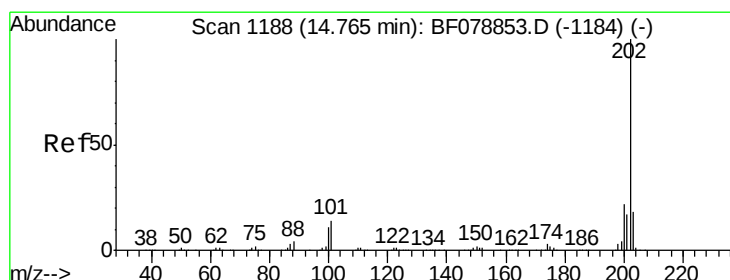
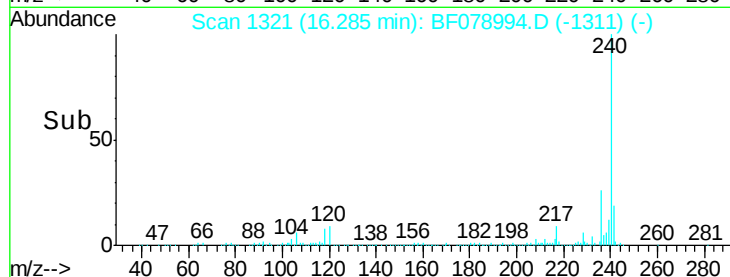
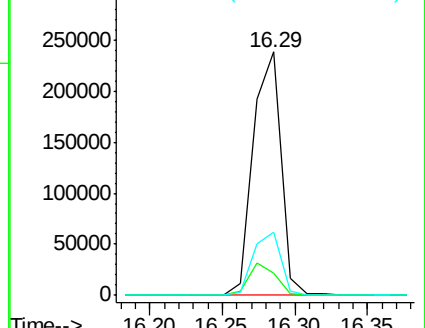
236 25.8 20.2 30.4



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: 15.30 ng

RT: 14.73 min Scan# 1185

Delta R.T. -0.00 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

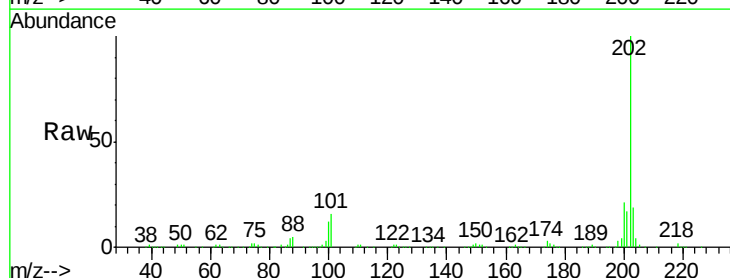
Tgt Ion:202 Resp: 280721

Ion Ratio Lower Upper

202 100

200 20.9 17.5 26.3

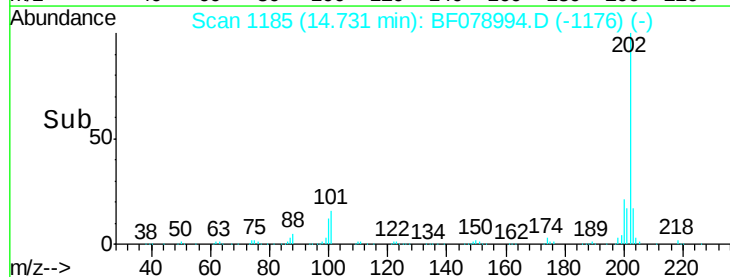
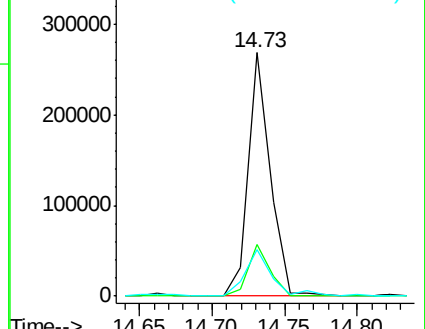
203 19.1 13.9 20.9

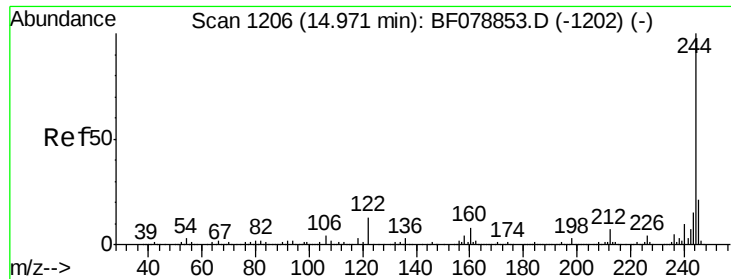


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

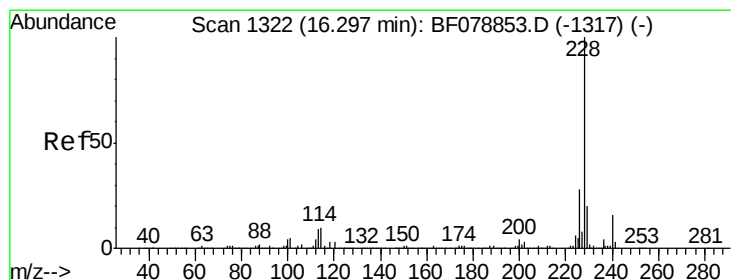
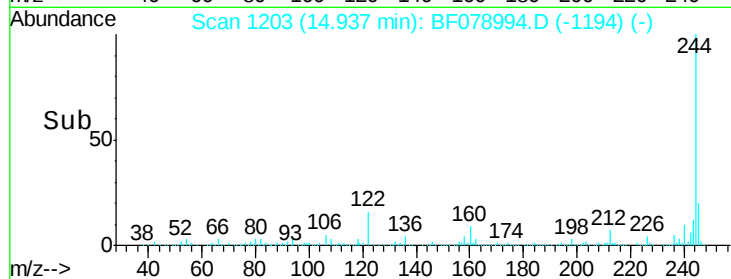
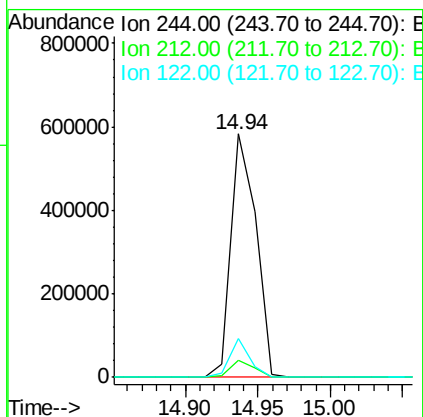
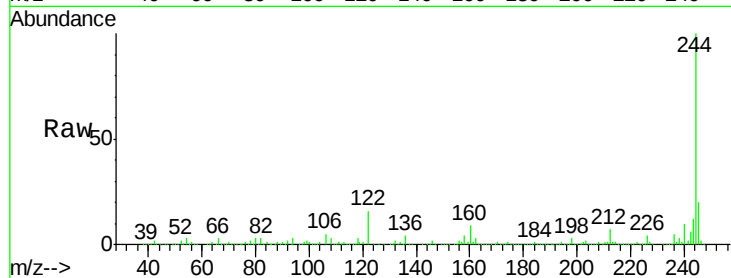




#78  
 Terphenyl-d14  
 Concen: 52.70 ng  
 RT: 14.94 min Scan# 1203  
 Delta R.T. -0.00 min  
 Lab File: BF078994.D  
 Acq: 7 May 2015 14:24

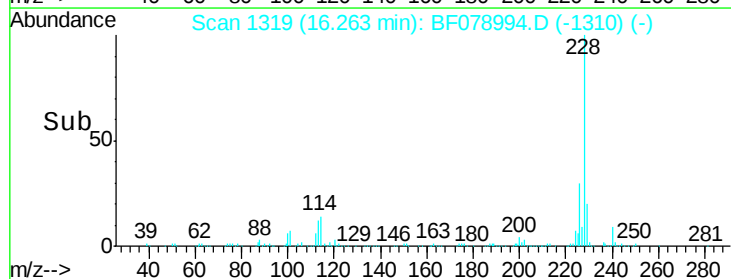
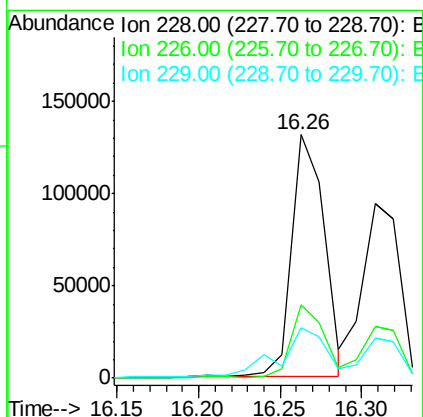
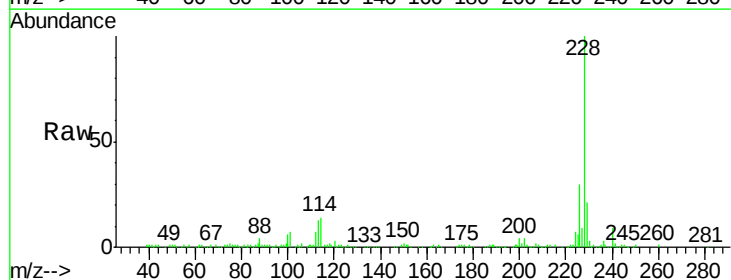
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-16-SS

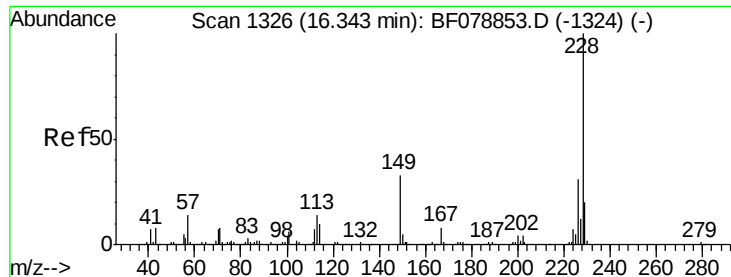
Tgt Ion:244 Resp: 701035  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.6 8.4  
 122 15.8 10.3 15.5#



#80  
 Benzo(a)anthracene  
 Concen: 10.53 ng  
 RT: 16.26 min Scan# 1319  
 Delta R.T. -0.00 min  
 Lab File: BF078994.D  
 Acq: 7 May 2015 14:24

Tgt Ion:228 Resp: 183658  
 Ion Ratio Lower Upper  
 228 100  
 226 30.2 22.6 33.8  
 229 20.8 15.9 23.9





#82

Chrysene

Concen: 8.81 ng

RT: 16.31 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

Instrument :

BNA\_F

ClientSampled :

TP-16-SS

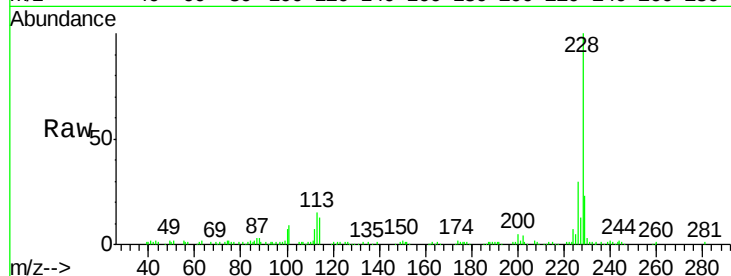
Tgt Ion:228 Resp: 147805

Ion Ratio Lower Upper

228 100

226 29.6 24.9 37.3

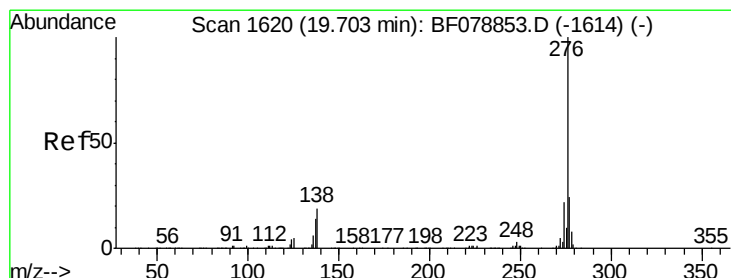
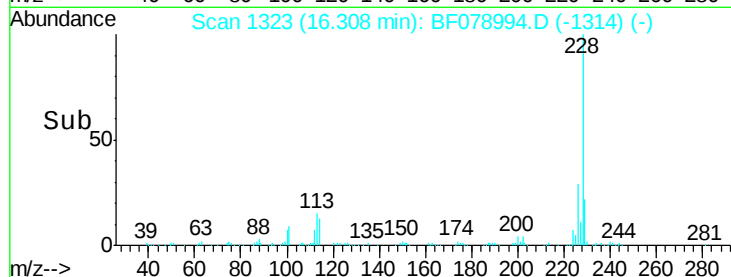
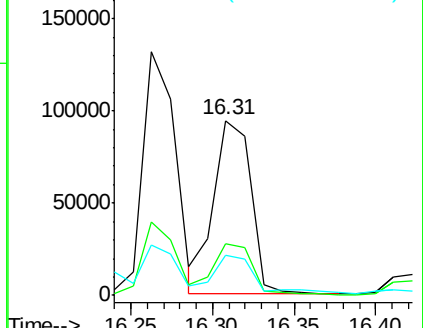
229 23.2 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.91 ng

RT: 19.68 min Scan# 1618

Delta R.T. 0.02 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

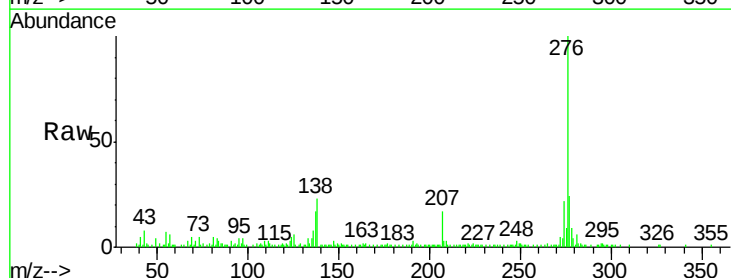
Tgt Ion:276 Resp: 104848

Ion Ratio Lower Upper

276 100

138 25.5 0.0 0.0#

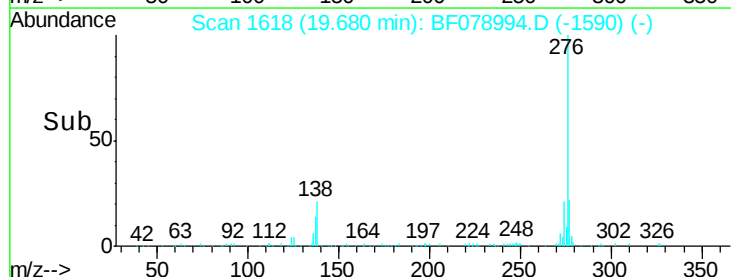
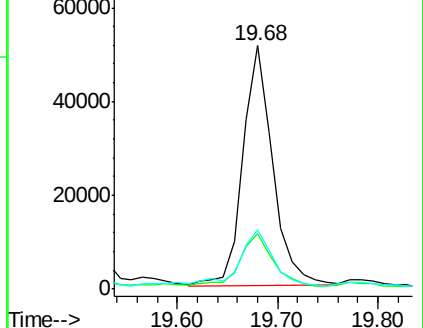
277 29.0 0.0 0.0#

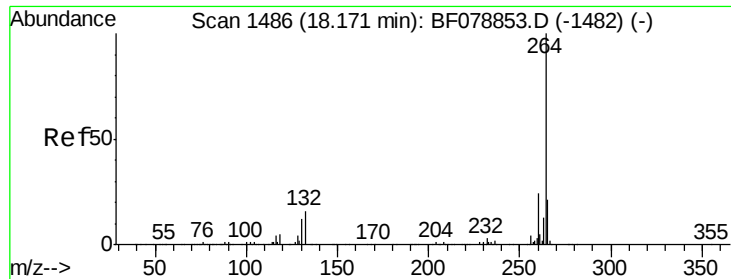


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

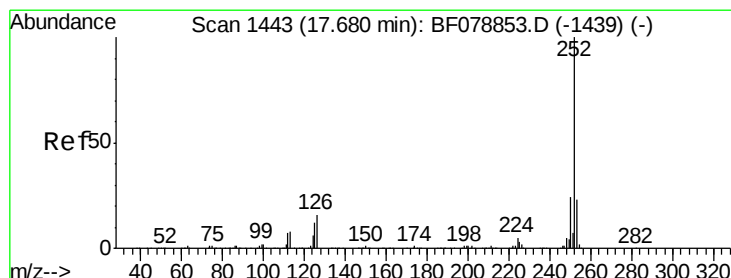
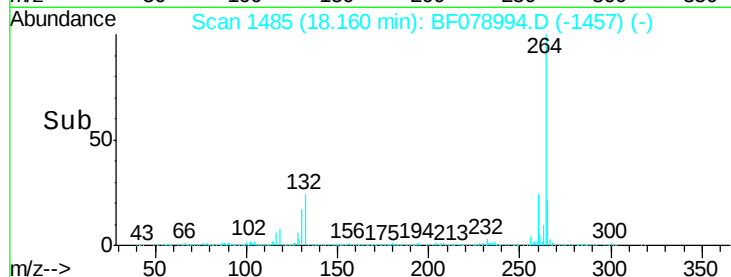
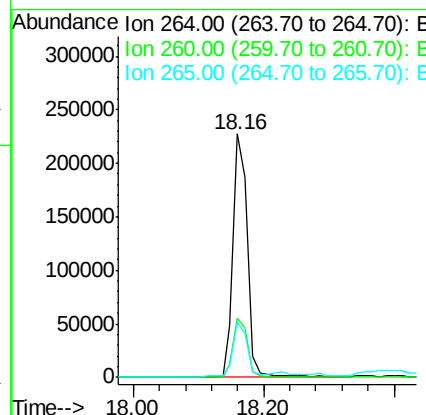
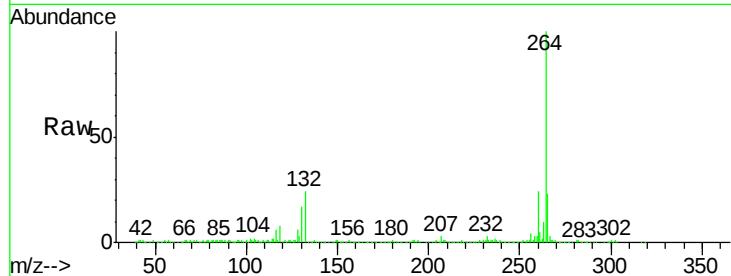




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 18.16 min Scan# 1485  
Delta R.T. 0.02 min  
Lab File: BF078994.D  
Acq: 7 May 2015 14:24

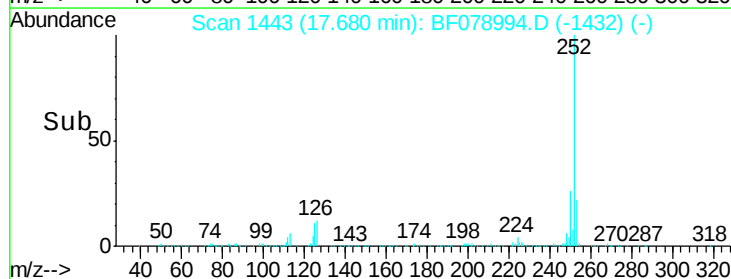
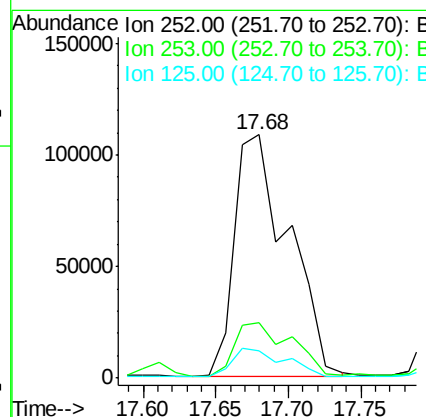
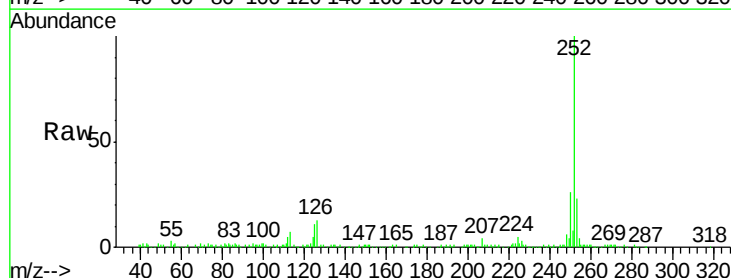
Instrument :  
BNA\_F  
ClientSampleId :  
TP-16-SS

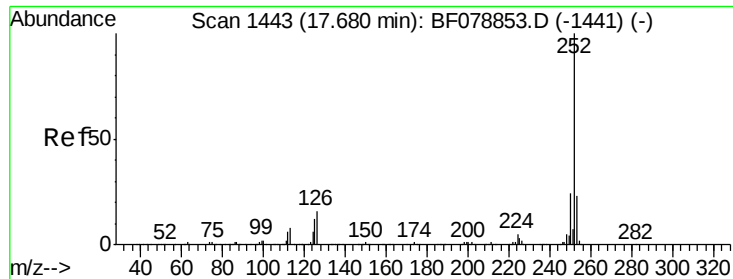
Tgt Ion:264 Resp: 345208  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.4 29.2  
265 22.6 18.3 27.5



#87  
Benzo(b)fluoranthene  
Concen: 14.89 ng  
RT: 17.68 min Scan# 1443  
Delta R.T. 0.02 min  
Lab File: BF078994.D  
Acq: 7 May 2015 14:24

Tgt Ion:252 Resp: 281311  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.7 26.5  
125 11.2 9.5 14.3

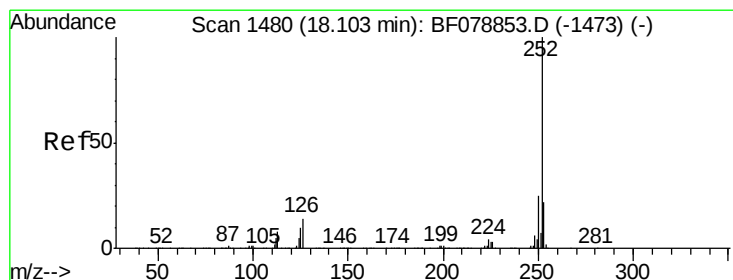
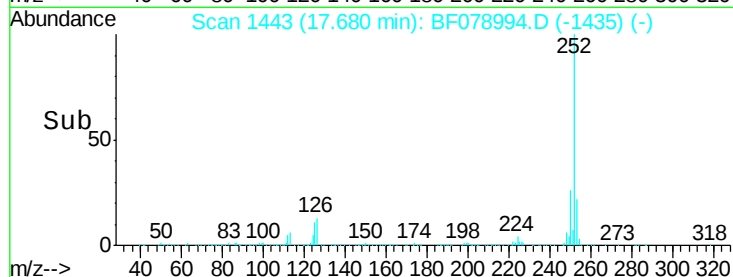
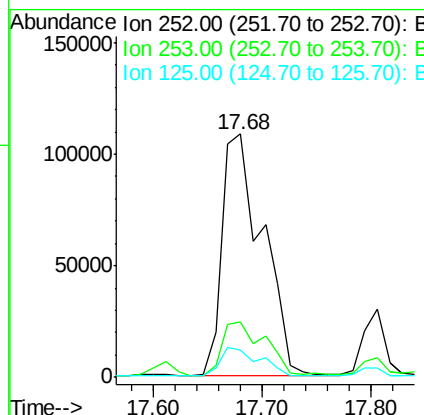
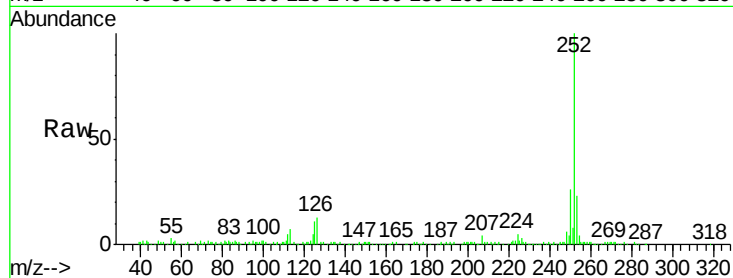




#88  
Benzo(k)fluoranthene  
Concen: 15.49 ng  
RT: 17.68 min Scan# 1443  
Delta R.T. -0.01 min  
Lab File: BF078994.D  
Acq: 7 May 2015 14:24

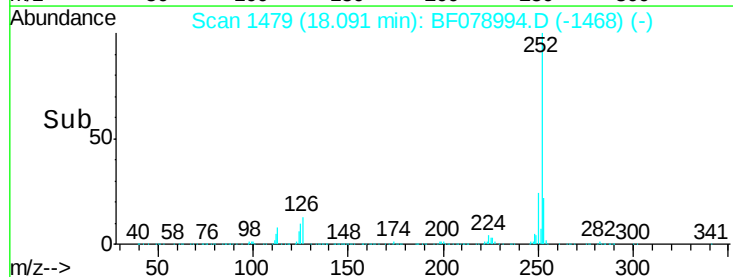
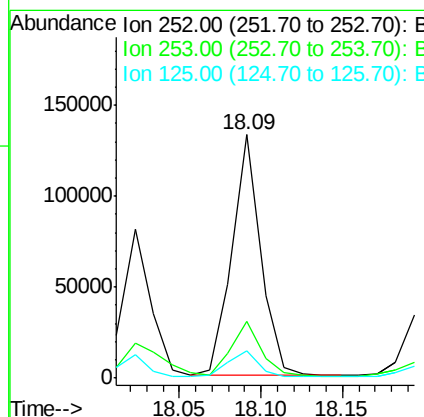
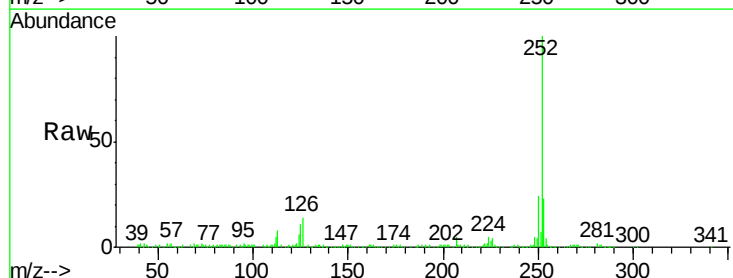
Instrument :  
BNA\_F  
ClientSampleId :  
TP-16-SS

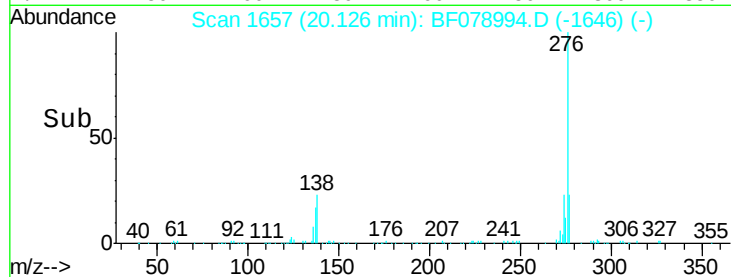
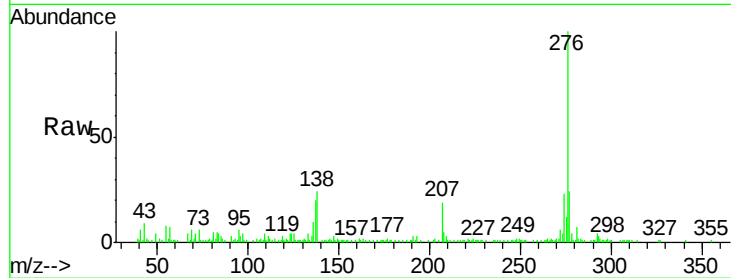
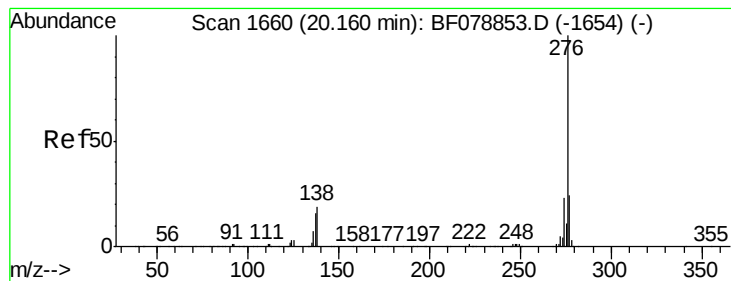
Tgt Ion:252 Resp: 283349  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.1 27.1  
125 11.2 10.0 15.0



#89  
Benzo(a)pyrene  
Concen: 9.26 ng  
RT: 18.09 min Scan# 1479  
Delta R.T. 0.02 min  
Lab File: BF078994.D  
Acq: 7 May 2015 14:24

Tgt Ion:252 Resp: 161037  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.3 25.9  
125 11.1 7.0 10.6#





#91

Benzo(g,h,i)perylene

Concen: 5.11 ng

RT: 20.13 min Scan# 1657

Delta R.T. 0.02 min

Lab File: BF078994.D

Acq: 7 May 2015 14:24

Instrument :

BNA\_F

ClientSampleId :

TP-16-SS

Tgt Ion: 276 Resp: 94772

Ion Ratio Lower Upper

276 100

277 24.4 18.6 28.0

138 24.2 17.4 26.0

