

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050615\  
 Data File : BF078972.D  
 Acq On : 6 May 2015 20:50  
 Operator : TP/IZ  
 Sample : G2035-07  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6-D3

Quant Time: May 07 01:12:06 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 07 00:45:56 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.35  | 152  | 62738    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.92  | 136  | 272226   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 11.11 | 164  | 136087   | 20.00 | ng    | 0.01     |
| 63) Phenanthrene-d10      | 12.95 | 188  | 272035   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 16.25 | 240  | 303396   | 20.00 | ng    | -0.06    |
| 86) Perylene-d12          | 18.01 | 264  | 321868   | 20.00 | ng    | -0.22    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.64  | 112  | 364306   | 99.96  | ng    | 0.01     |
| 7) Phenol-d6                | 6.90  | 99   | 520962   | 108.14 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 8.03  | 82   | 276841   | 58.45  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.09 | 330  | 154492   | 104.94 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 10.27 | 172  | 560340   | 57.37  | ng    | 0.00     |
| 78) Terphenyl-d14           | 0.00  | 244  | 0        | 0.00   | ng    |          |

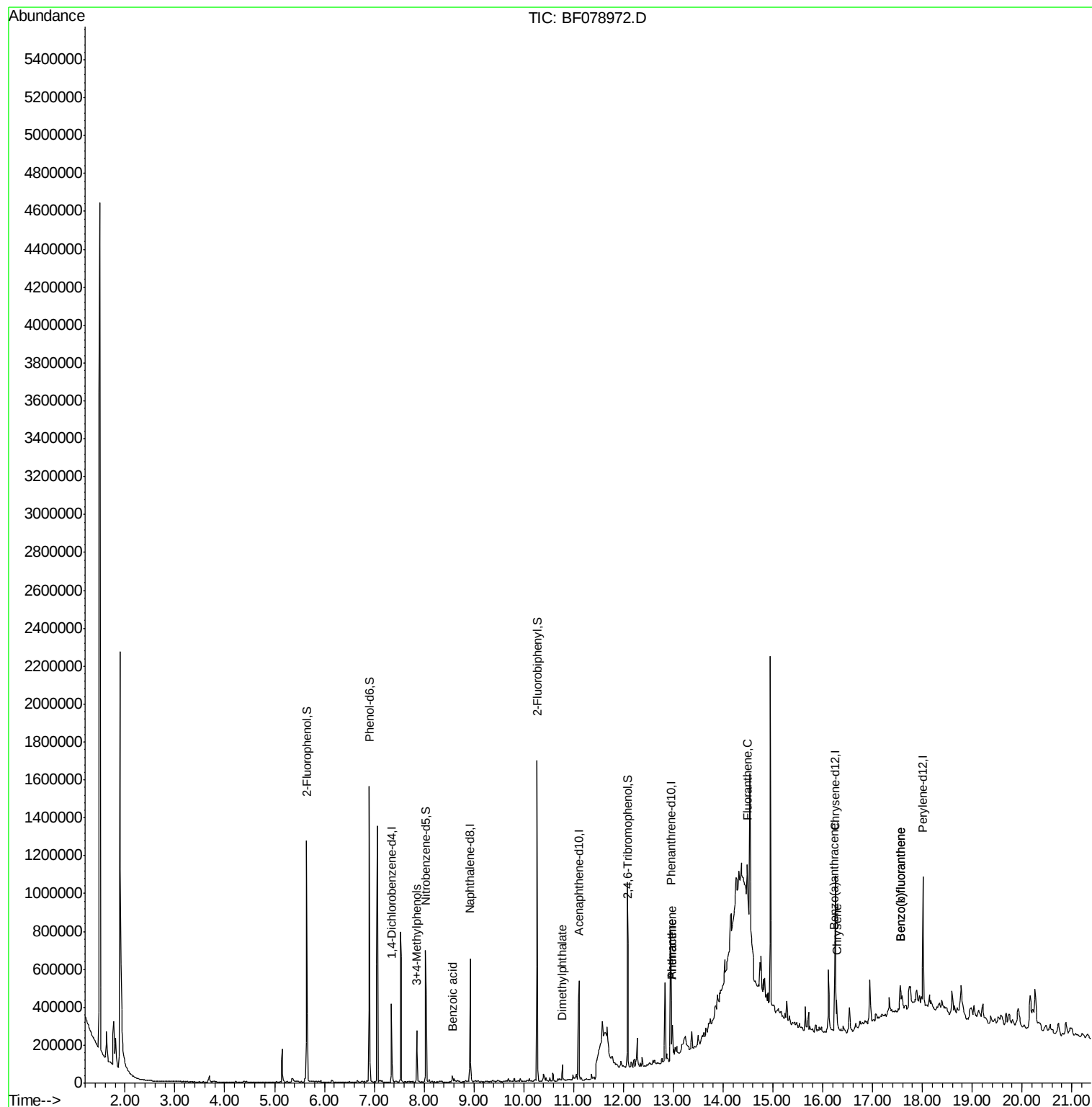
| Target Compounds         | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------|-------|------|----------|-------|-------|--------|
| 20) 3+4-Methylphenols    | 7.85  | 107  | 86522    | 19.52 | ng    | # 40   |
| 32) Benzoic acid         | 8.57  | 122  | 8988     | 9.52  | ng    | 91     |
| 49) Dimethylphthalate    | 10.78 | 163  | 32857    | 3.29  | ng    | 100    |
| 70) Phenanthrene         | 12.98 | 178  | 69775    | 4.58  | ng    | 99     |
| 71) Anthracene           | 12.98 | 178  | 68183    | 4.57  | ng    | 100    |
| 74) Fluoranthene         | 14.49 | 202  | 114051   | 7.19  | ng    | 95     |
| 80) Benzo(a)anthracene   | 16.24 | 228  | 43373    | 2.61  | ng    | 96     |
| 82) Chrysene             | 16.29 | 228  | 63598    | 3.98  | ng    | 97     |
| 87) Benzo(b)fluoranthene | 17.55 | 252  | 69199    | 3.93  | ng    | # 92   |
| 88) Benzo(k)fluoranthene | 17.55 | 252  | 102897   | 6.03  | ng    | # 94   |

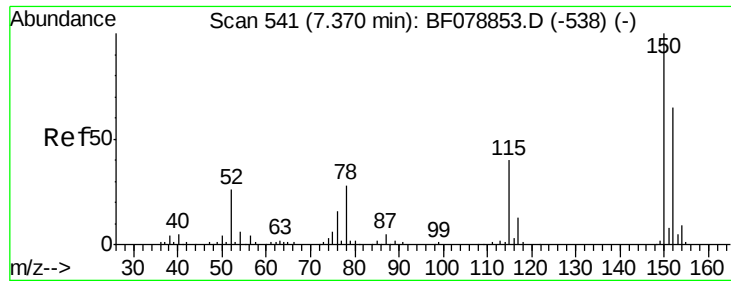
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050615\  
Data File : BF078972.D  
Acq On : 6 May 2015 20:50  
Operator : TP/IZ  
Sample : G2035-07  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6-D3

Quant Time: May 07 01:12:06 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 07 00:45:56 2015  
Response via : Initial Calibration



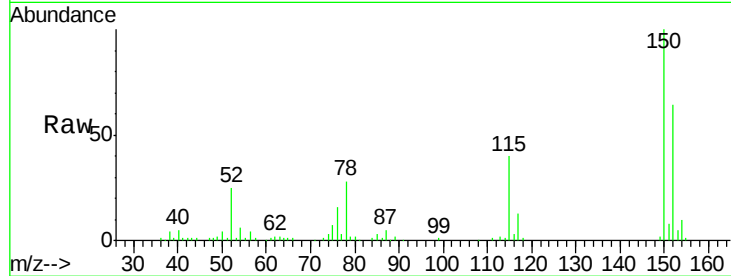


#1

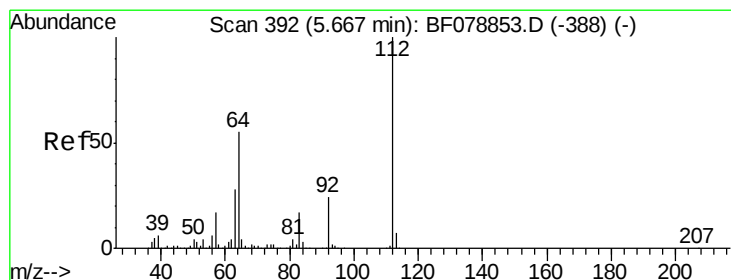
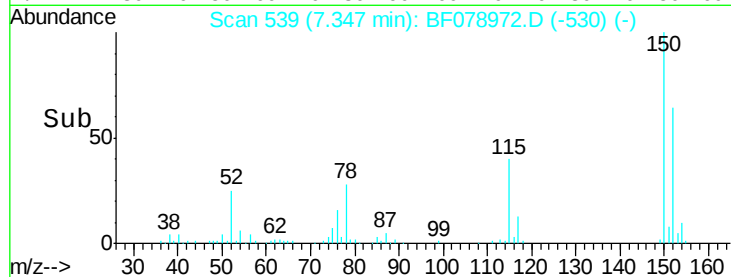
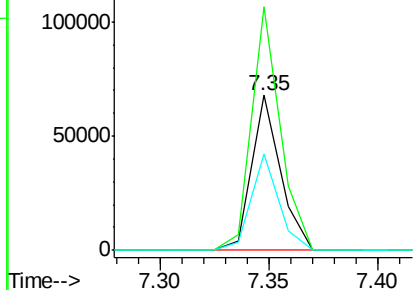
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.35 min Scan# 539  
Delta R.T. 0.00 min  
Lab File: BF078972.D  
Acq: 6 May 2015 20:50

Instrument :  
BNA\_F  
ClientSampled :  
TP-6-D3

Tgt Ion:152 Resp: 62738  
Ion Ratio Lower Upper  
152 100  
150 157.0 122.0 183.0  
115 62.1 46.3 69.5



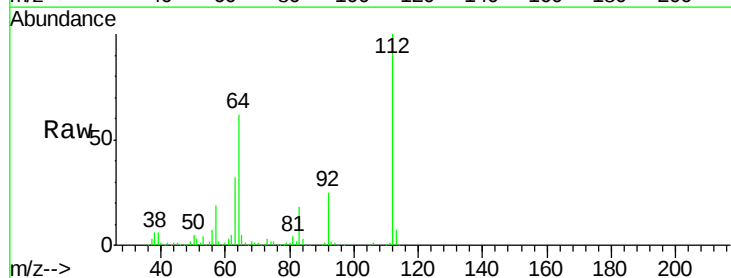
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



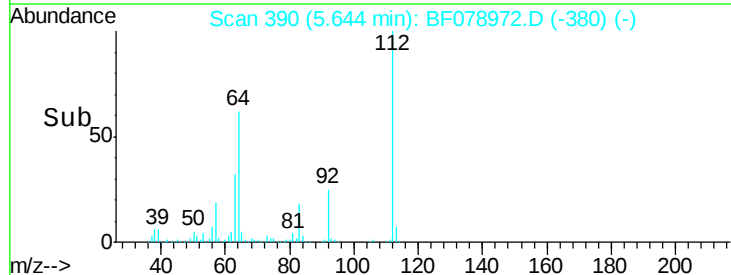
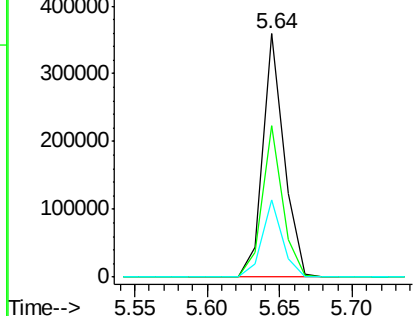
#5

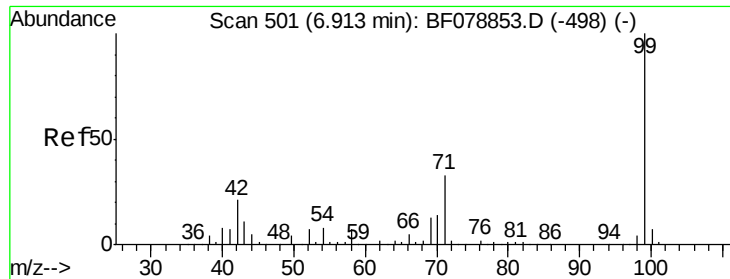
2-Fluorophenol  
Concen: 99.96 ng  
RT: 5.64 min Scan# 390  
Delta R.T. 0.01 min  
Lab File: BF078972.D  
Acq: 6 May 2015 20:50

Tgt Ion:112 Resp: 364306  
Ion Ratio Lower Upper  
112 100  
64 62.1 53.5 80.3  
63 31.7 27.5 41.3



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: 108.14 ng

RT: 6.90 min Scan# 500

Delta R.T. 0.01 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

Instrument :

BNA\_F

ClientSampleId :

TP-6-D3

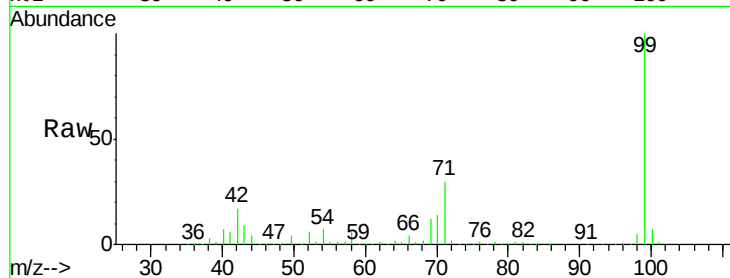
Tgt Ion: 99 Resp: 520962

Ion Ratio Lower Upper

99 100

42 17.2 12.8 19.2

71 30.5 23.4 35.2

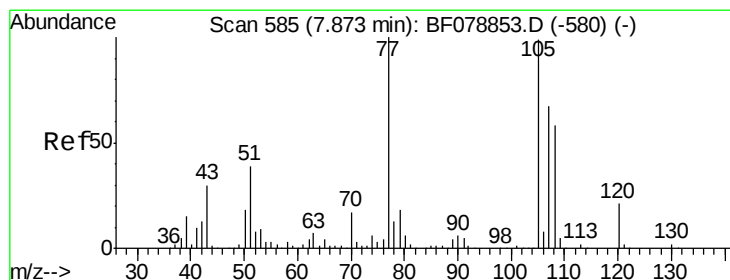
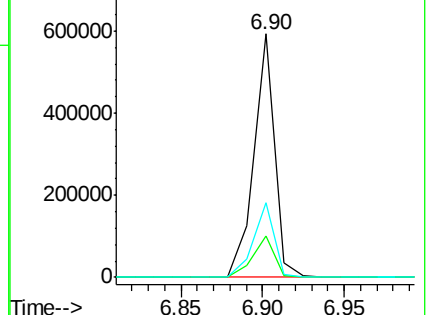
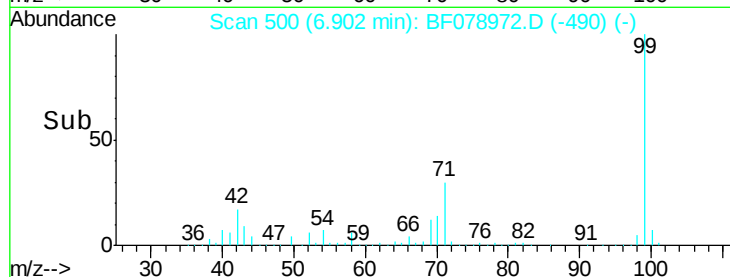


Abundance

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



#20

3+4-Methylphenols

Concen: 19.52 ng

RT: 7.85 min Scan# 583

Delta R.T. 0.00 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

Tgt Ion: 107 Resp: 86522

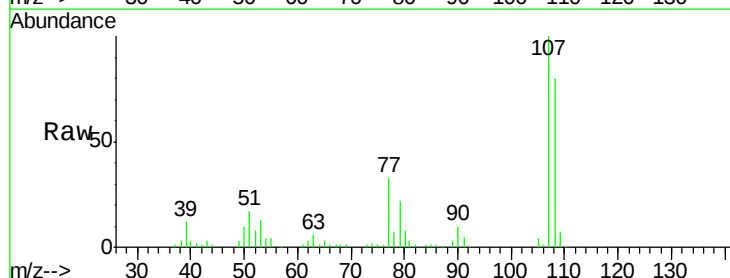
Ion Ratio Lower Upper

107 100

108 79.7 76.9 116.9

77 32.6 136.8 176.8#

79 21.7 9.7 49.7



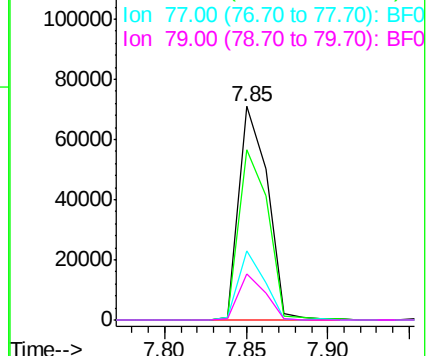
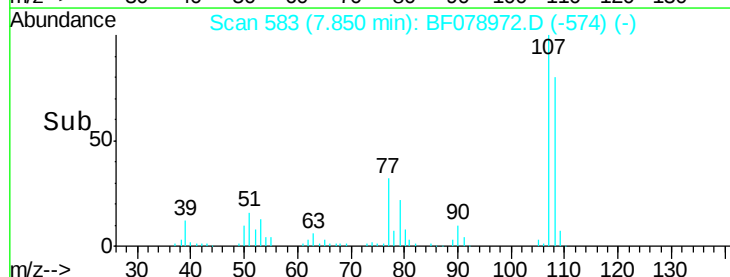
Abundance

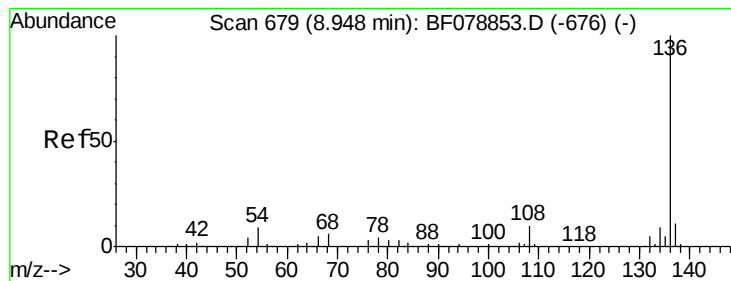
Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.92 min Scan# 677

Delta R.T. 0.00 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

Instrument :

BNA\_F

ClientSampleId :

TP-6-D3

Tgt Ion: 136 Resp: 272226

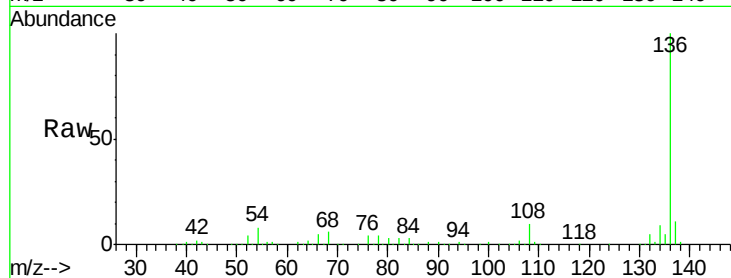
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 8.2 5.8 8.8

68 6.0 4.2 6.4

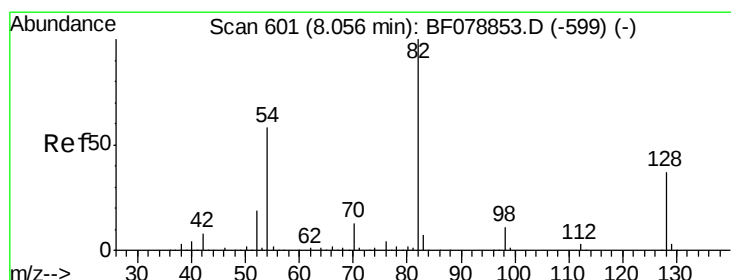
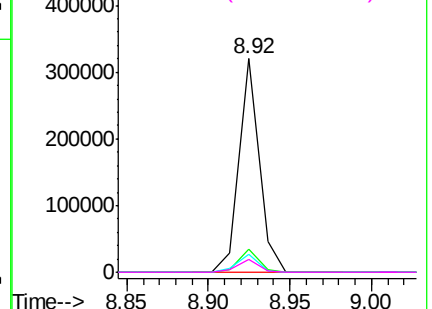
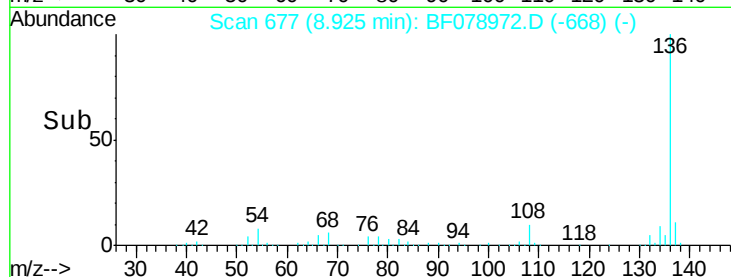


Abundance Ion 136.00 (135.70 to 136.70): E

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: 58.45 ng

RT: 8.03 min Scan# 599

Delta R.T. 0.00 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

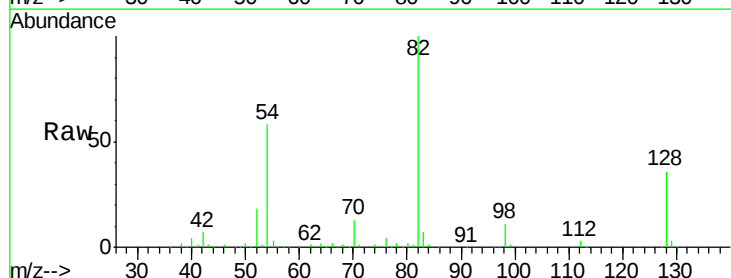
Tgt Ion: 82 Resp: 276841

Ion Ratio Lower Upper

82 100

128 36.4 30.0 45.0

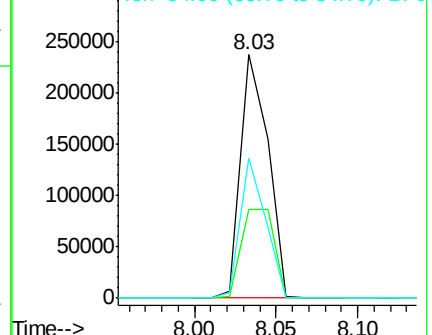
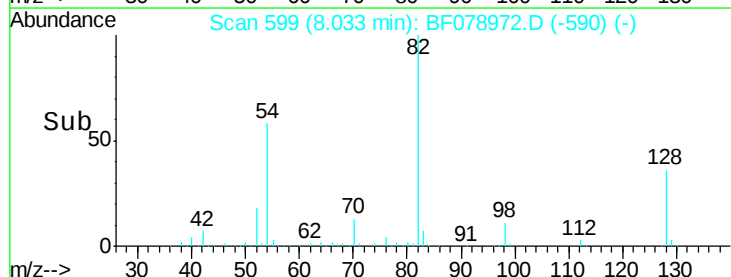
54 57.7 46.4 69.6

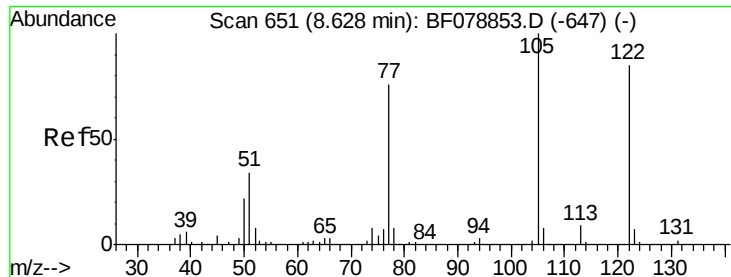


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

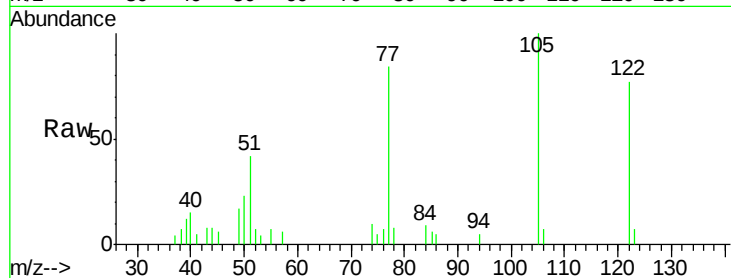




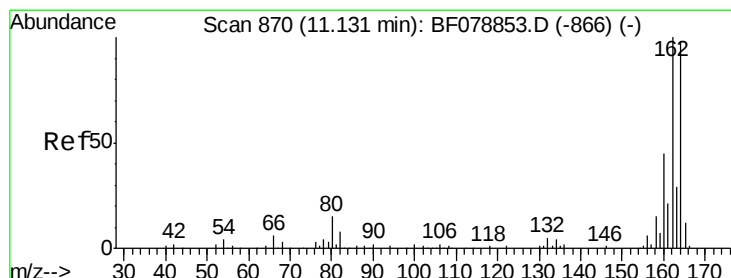
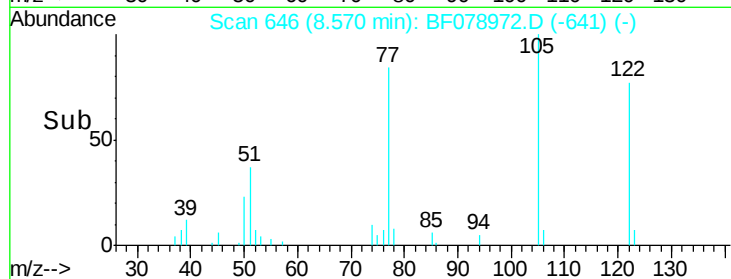
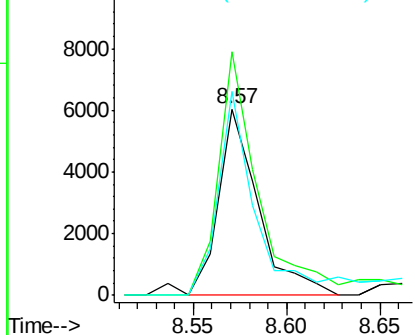
#32  
Benzoic acid  
Concen: 9.52 ng  
RT: 8.57 min Scan# 646  
Delta R.T. -0.05 min  
Lab File: BF078972.D  
Acq: 6 May 2015 20:50

Instrument :  
BNA\_F  
ClientSampleId :  
TP-6-D3

Tgt Ion:122 Resp: 8988  
Ion Ratio Lower Upper  
122 100  
105 130.6 107.1 147.1  
77 109.3 73.9 113.9

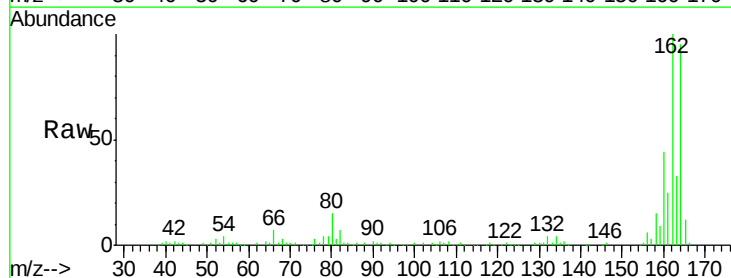


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

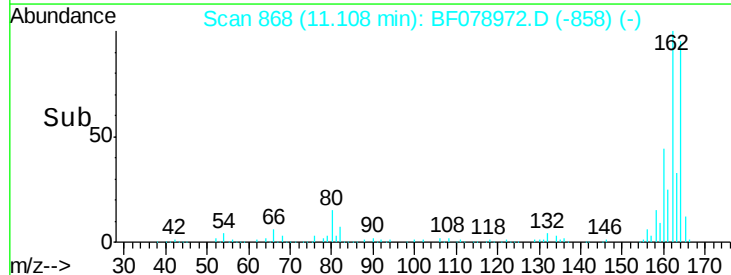
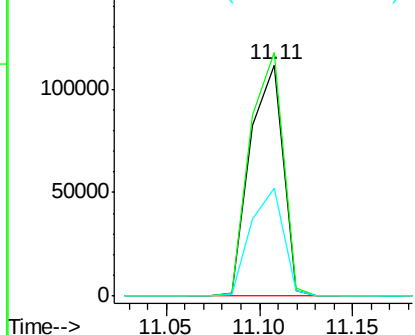


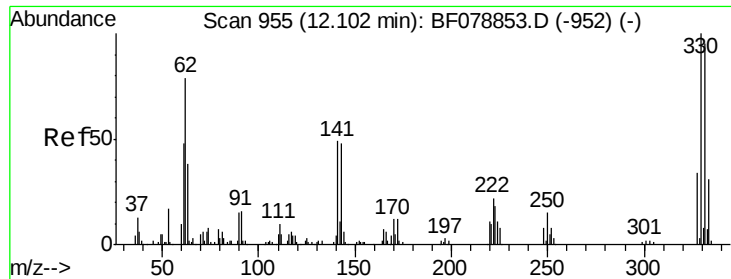
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 11.11 min Scan# 868  
Delta R.T. 0.01 min  
Lab File: BF078972.D  
Acq: 6 May 2015 20:50

Tgt Ion:164 Resp: 136087  
Ion Ratio Lower Upper  
164 100  
162 105.3 82.7 124.1  
160 46.7 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

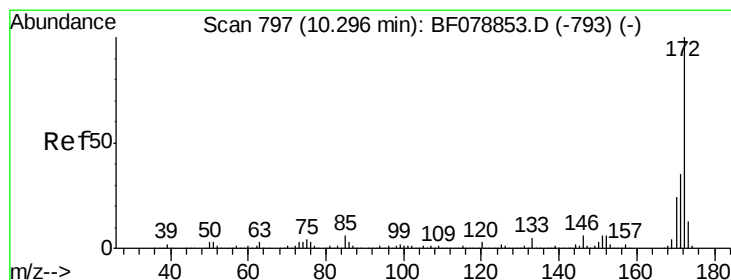
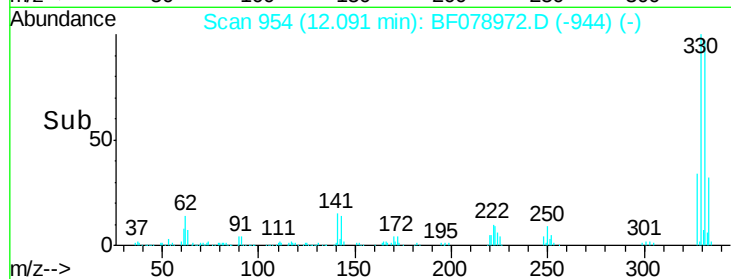
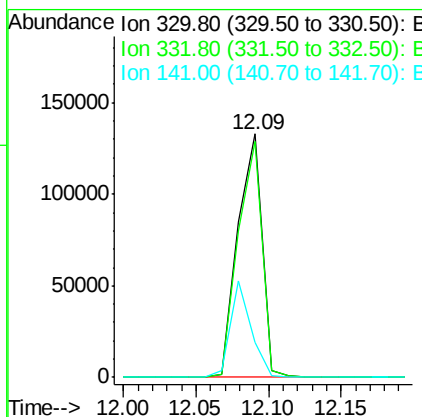
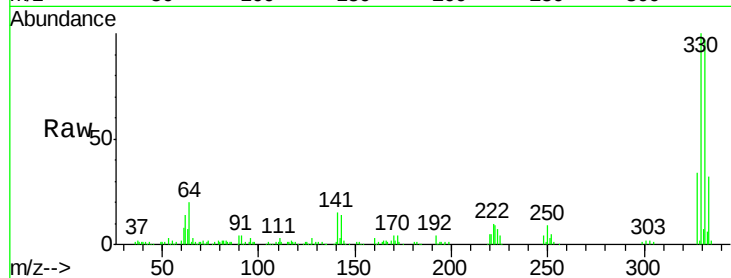




#41  
 2,4,6-Tribromophenol  
 Concen: 104.94 ng  
 RT: 12.09 min Scan# 954  
 Delta R.T. 0.01 min  
 Lab File: BF078972.D  
 Acq: 6 May 2015 20:50

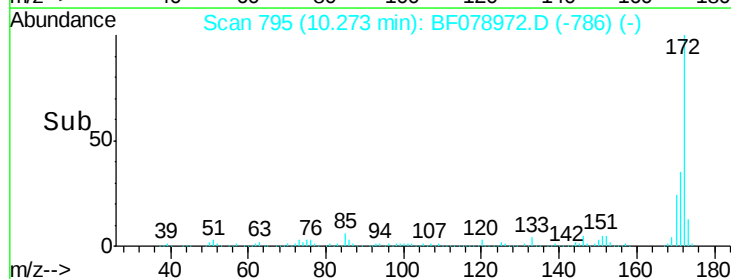
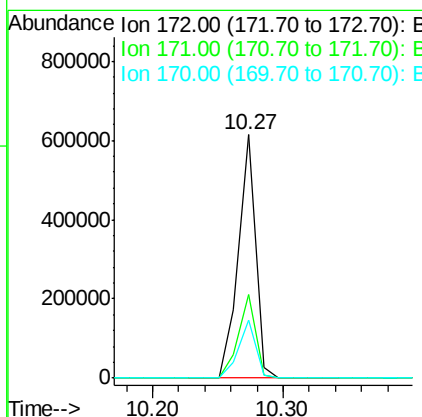
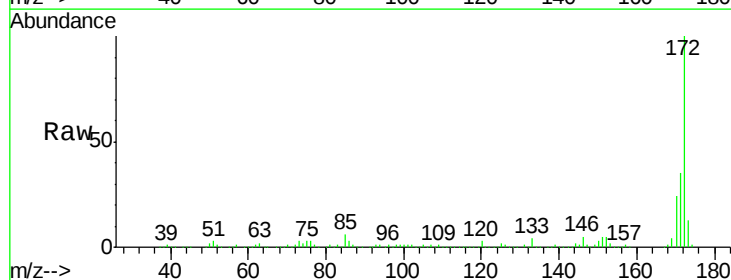
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6-D3

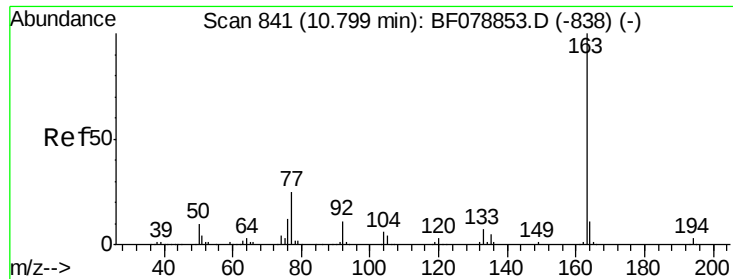
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 154492 |       |       |
| 332     | 95.4  | 0.0    | 0.0   | 0.0   |
| 141     | 34.7  | 0.0    | 0.0   | 0.0   |



#44  
 2-Fluorobiphenyl  
 Concen: 57.37 ng  
 RT: 10.27 min Scan# 795  
 Delta R.T. 0.00 min  
 Lab File: BF078972.D  
 Acq: 6 May 2015 20:50

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 560340 |       |       |
| 171     | 34.6  | 27.9   | 41.9  |       |
| 170     | 24.0  | 19.4   | 29.0  |       |

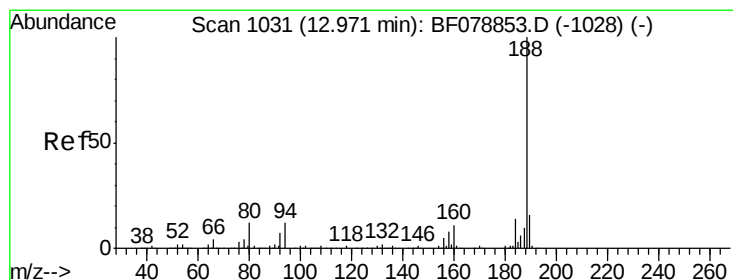
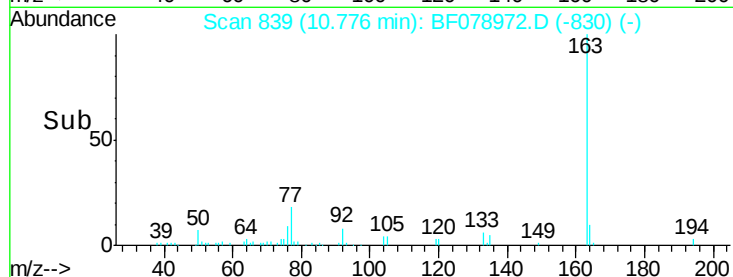
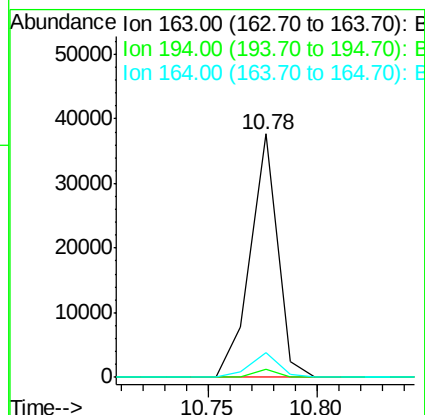
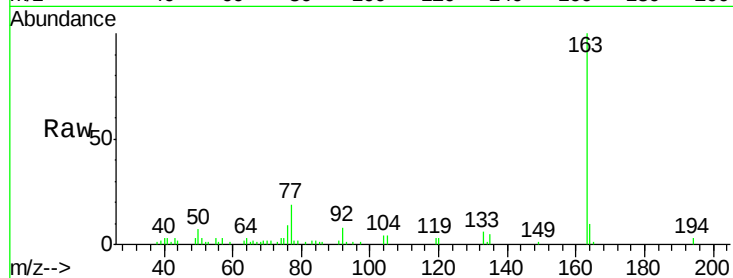




#49  
Dimethylphthalate  
Concen: 3.29 ng  
RT: 10.78 min Scan# 839  
Delta R.T. 0.00 min  
Lab File: BF078972.D  
Acq: 6 May 2015 20:50

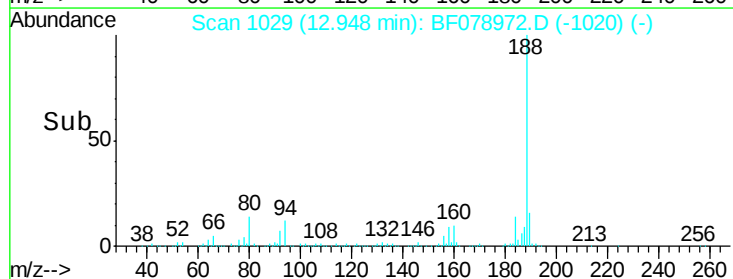
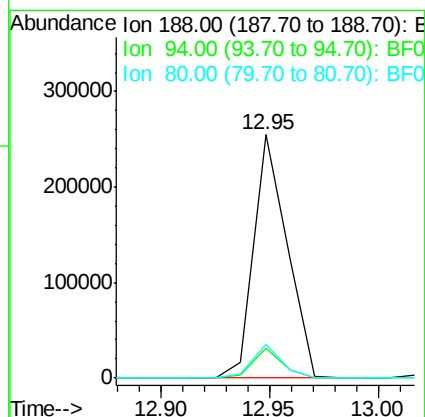
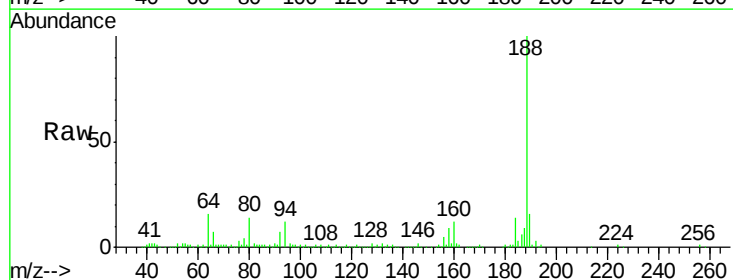
Instrument :  
BNA\_F  
ClientSampleId :  
TP-6-D3

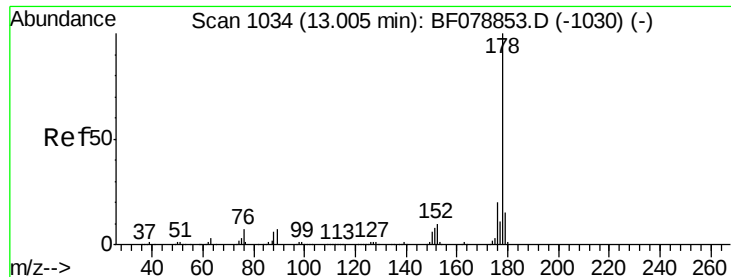
Tgt Ion:163 Resp: 32857  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.6 4.0  
164 9.9 8.1 12.1



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.95 min Scan# 1029  
Delta R.T. 0.00 min  
Lab File: BF078972.D  
Acq: 6 May 2015 20:50

Tgt Ion:188 Resp: 272035  
Ion Ratio Lower Upper  
188 100  
94 12.2 8.2 12.2  
80 13.7 8.9 13.3#





#70

Phenanthrene

Concen: 4.58 ng

RT: 12.98 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

Instrument :

BNA\_F

ClientSampleId :

TP-6-D3

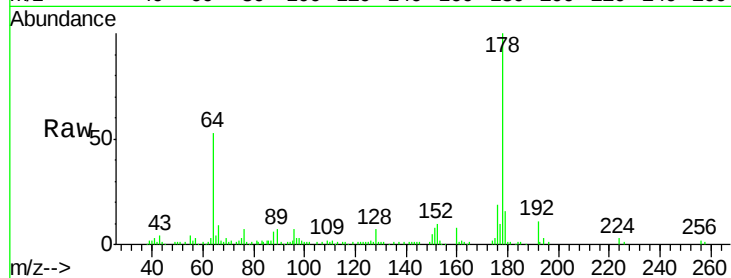
Tgt Ion:178 Resp: 69775

Ion Ratio Lower Upper

178 100

176 19.1 15.8 23.8

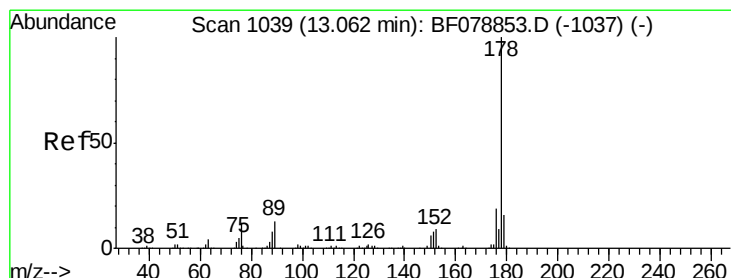
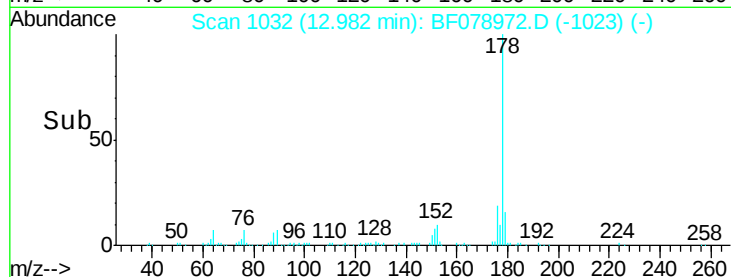
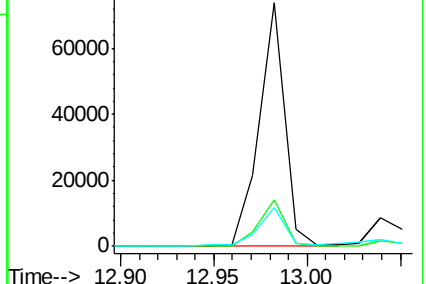
179 15.8 12.5 18.7



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: 4.57 ng

RT: 12.98 min Scan# 1032

Delta R.T. -0.06 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

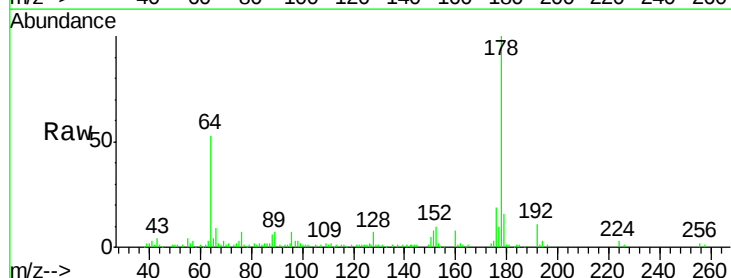
Tgt Ion:178 Resp: 68183

Ion Ratio Lower Upper

178 100

176 19.1 15.5 23.3

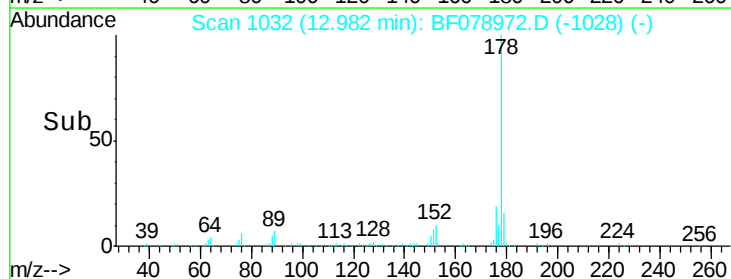
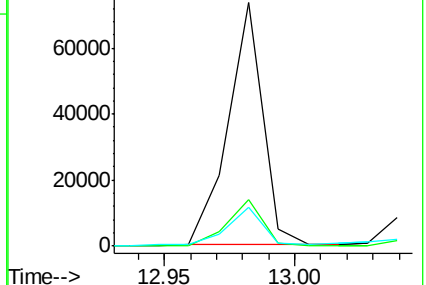
179 15.8 12.7 19.1

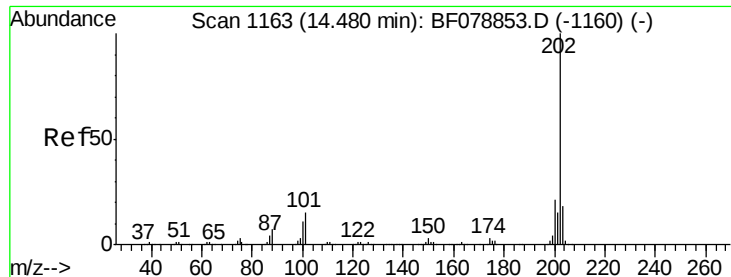


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 7.19 ng

RT: 14.49 min Scan# 1164

Delta R.T. 0.03 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

Instrument :

BNA\_F

ClientSampleId :

TP-6-D3

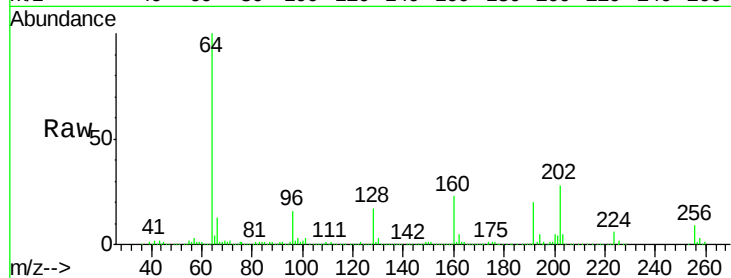
Tgt Ion:202 Resp: 114051

Ion Ratio Lower Upper

202 100

101 11.0 0.0 34.6

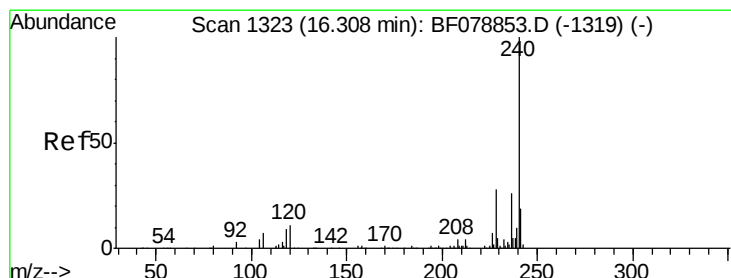
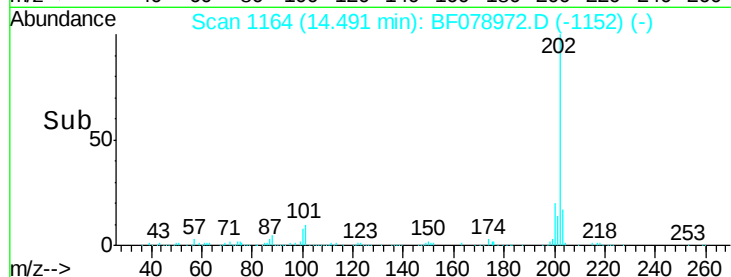
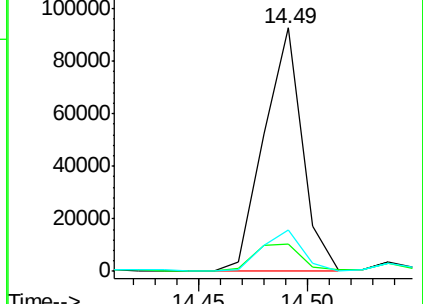
203 17.3 0.0 38.4



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: 16.25 min Scan# 1318

Delta R.T. -0.06 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

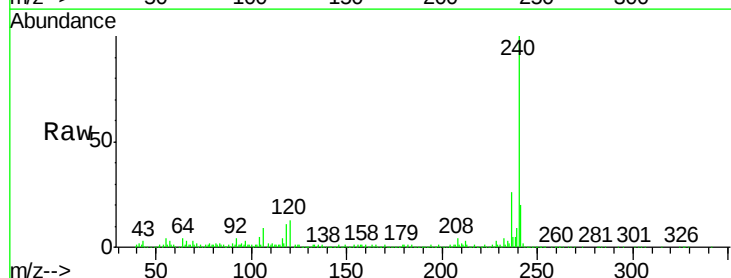
Tgt Ion:240 Resp: 303396

Ion Ratio Lower Upper

240 100

120 12.6 9.7 14.5

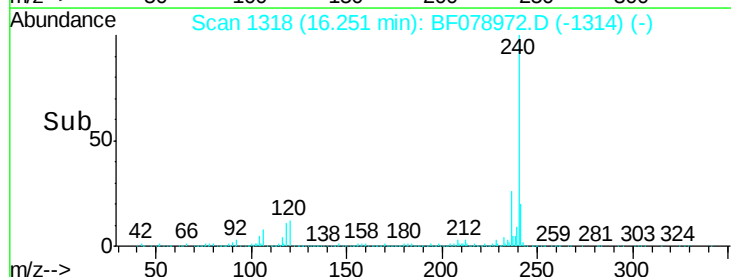
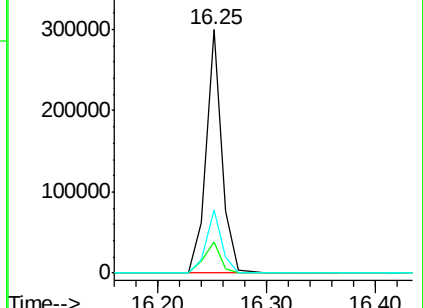
236 25.9 20.2 30.4

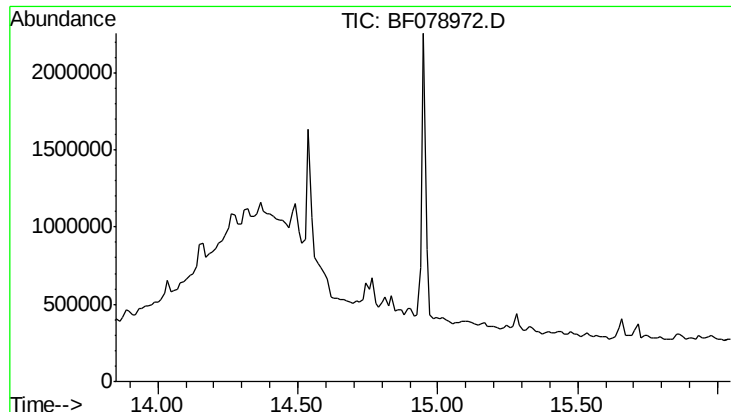


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



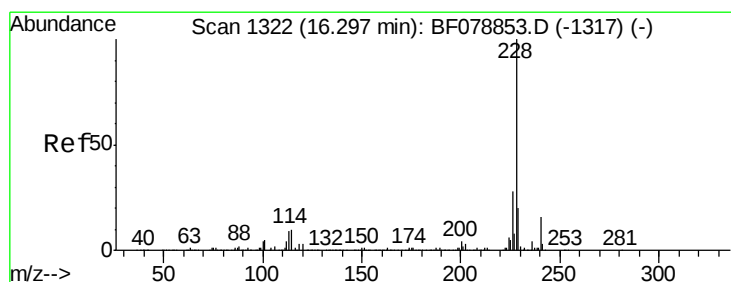
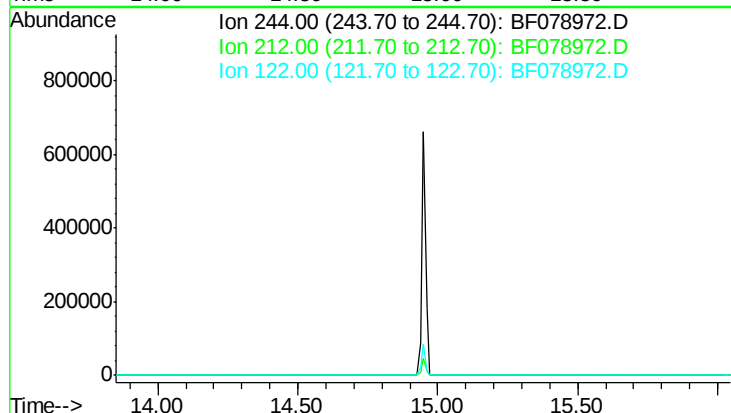


#78  
 Terphenyl-d14  
 Concen: 0.00 ng  
 Expected RT: 14.95 min  
 Lab File: BF078972.D  
 Acq: 6 May 2015 20:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6-D3

Tgt Ion: 244  

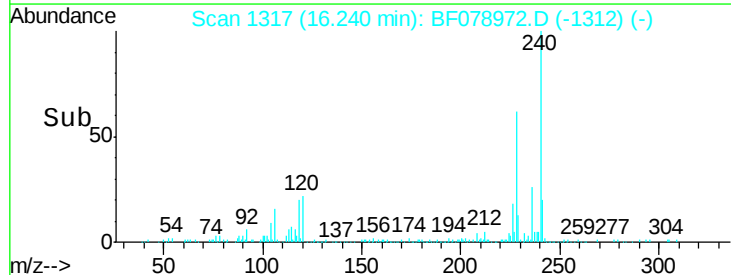
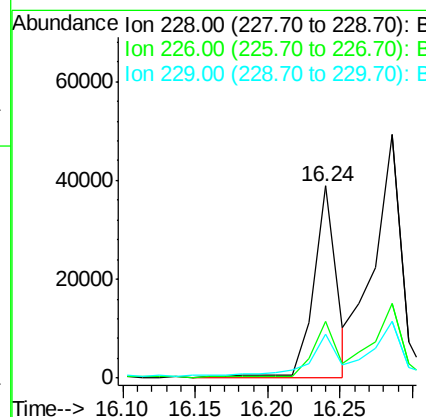
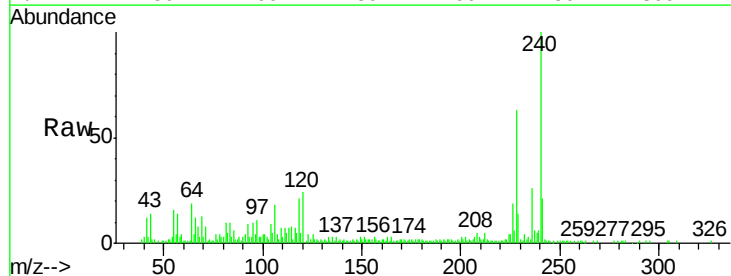
| Sig | Exp Ratio |
|-----|-----------|
| 244 | 100       |
| 212 | 7.0       |
| 122 | 12.9      |

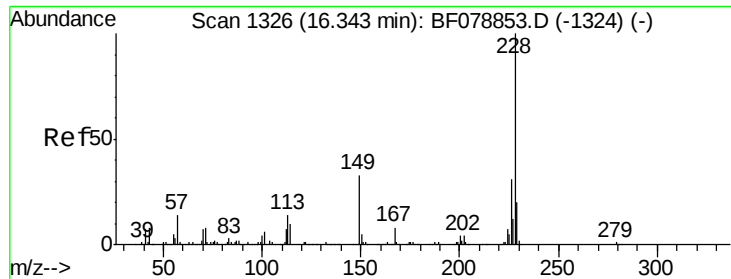


#80  
 Benzo(a)anthracene  
 Concen: 2.61 ng  
 RT: 16.24 min Scan# 1317  
 Delta R.T. -0.05 min  
 Lab File: BF078972.D  
 Acq: 6 May 2015 20:50

Tgt Ion: 228 Resp: 43373  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.8  | 22.6  | 33.8  |
| 229 | 22.7  | 15.9  | 23.9  |

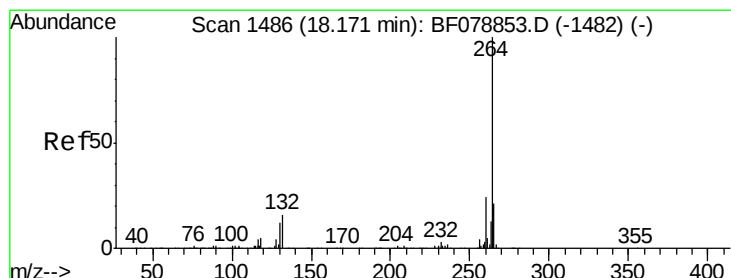
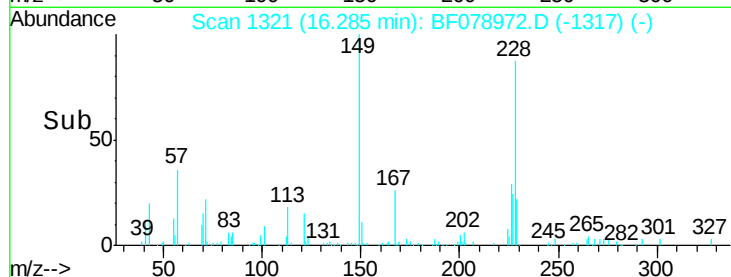
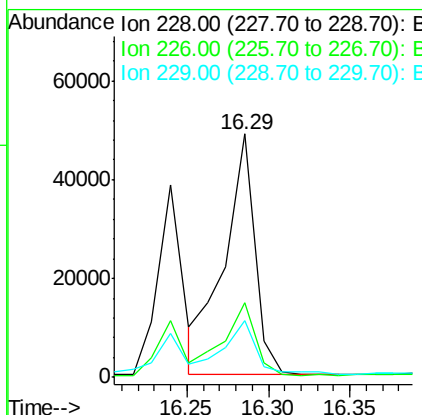
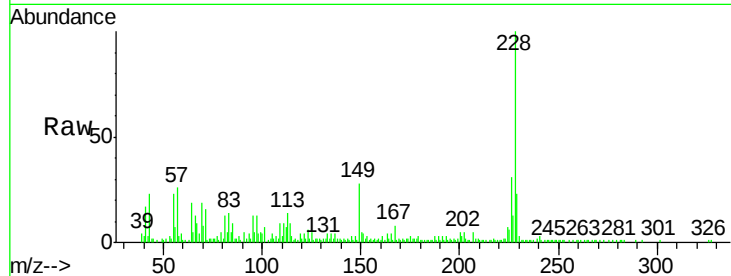




#82  
Chrysene  
Concen: 3.98 ng  
RT: 16.29 min Scan# 1321  
Delta R.T. -0.06 min  
Lab File: BF078972.D  
Acq: 6 May 2015 20:50

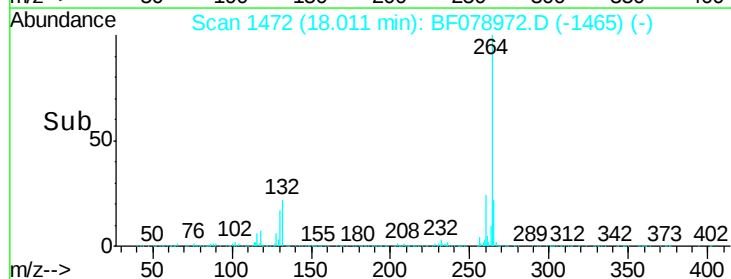
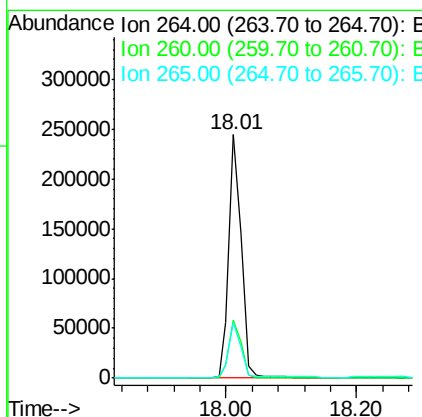
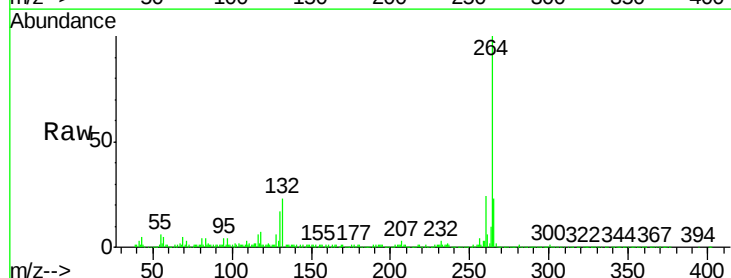
Instrument :  
BNA\_F  
ClientSampleId :  
TP-6-D3

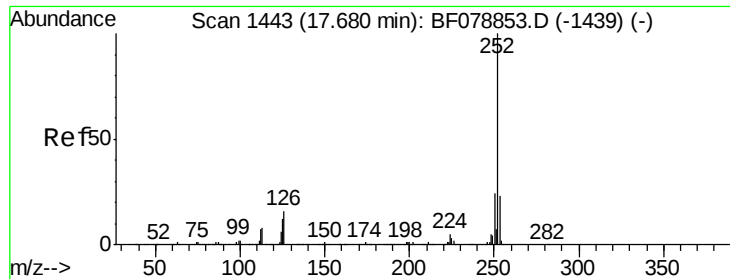
Tgt Ion:228 Resp: 63598  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.9 37.3  
229 23.1 16.0 24.0



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 18.01 min Scan# 1472  
Delta R.T. -0.22 min  
Lab File: BF078972.D  
Acq: 6 May 2015 20:50

Tgt Ion:264 Resp: 321868  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.4 29.2  
265 22.7 18.3 27.5





#87

Benzo(b)fluoranthene

Concen: 3.93 ng

RT: 17.55 min Scan# 1432

Delta R.T. -0.17 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

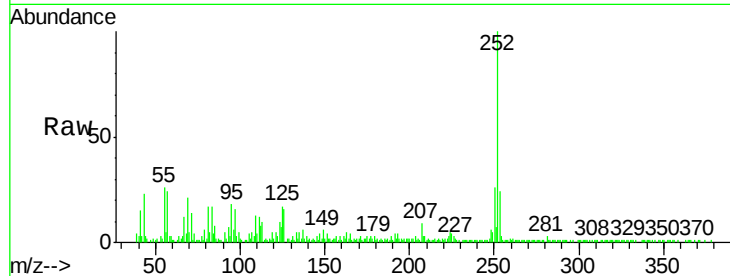
Instrument :

BNA\_F

ClientSampleId :

TP-6-D3

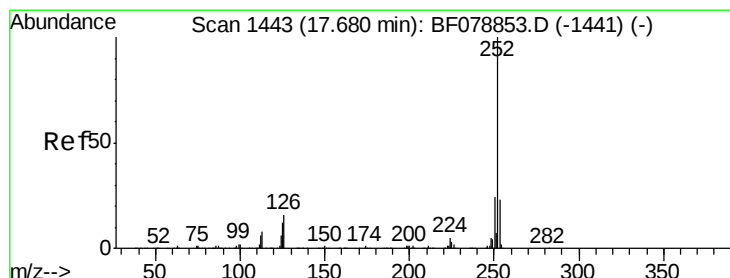
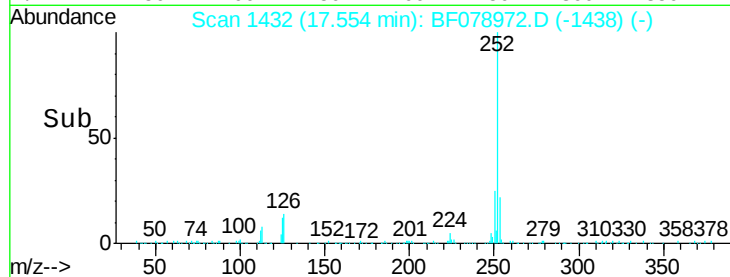
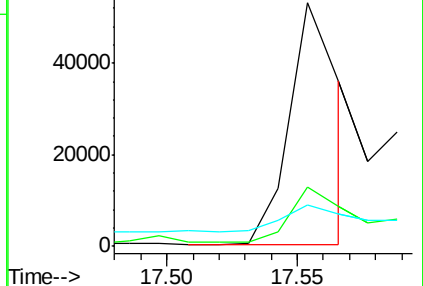
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 69199 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 24.3  | 17.7  | 26.5  |
| 125      | 17.0  | 9.5   | 14.3# |



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



#88

Benzo(k)fluoranthene

Concen: 6.03 ng

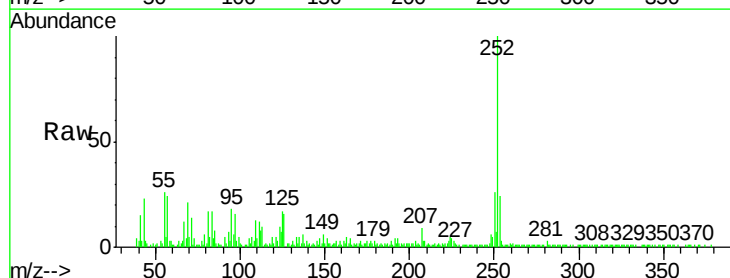
RT: 17.55 min Scan# 1432

Delta R.T. -0.21 min

Lab File: BF078972.D

Acq: 6 May 2015 20:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 102897 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 24.3  | 18.1  | 27.1   |
| 125      | 17.0  | 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

