

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012815\  
 Data File : BF077112.D  
 Acq On : 28 Jan 2015 20:57  
 Operator : TP/IZ  
 Sample : G1137-02DL2 50X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 104B1BDL2

Quant Time: Jan 29 11:17:49 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 29 00:11:13 2015  
 Response via : Initial Calibration

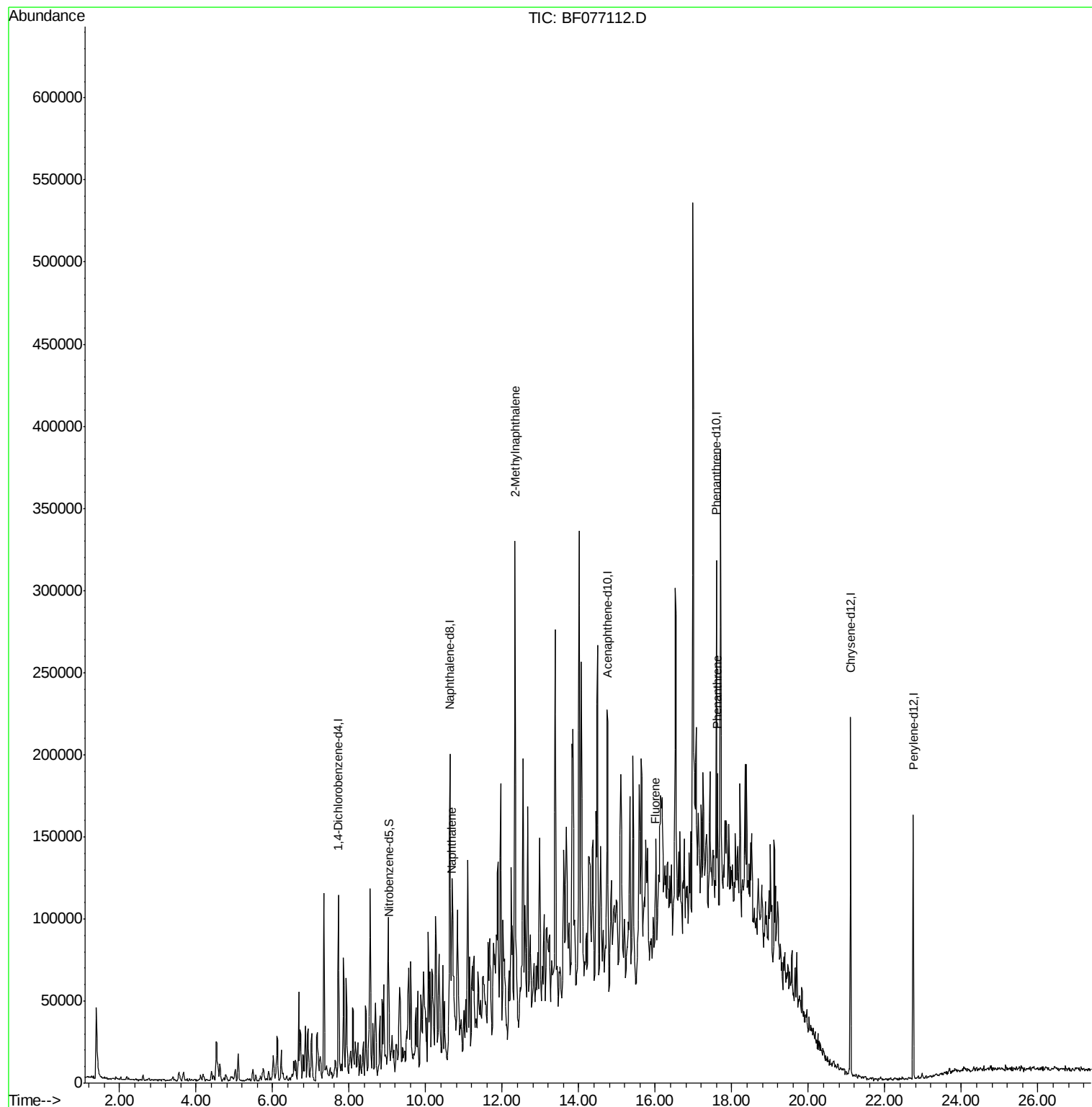
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.72  | 152  | 28813    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.63 | 136  | 121011   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.76 | 164  | 57680    | 20.00 | ng    | 0.01     |
| 63) Phenanthrene-d10        | 17.59 | 188  | 98884    | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.10 | 240  | 93105    | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 22.75 | 264  | 88852    | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.78  | 112  | 3122     | 1.78  | ng    | 0.02     |
| 7) Phenol-d6                | 7.17  | 99   | 4009     | 1.81  | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 9.03  | 82   | 4550     | 2.08  | ng    | 0.01     |
| 41) 2,4,6-Tribromophenol    | 16.48 | 330  | 837      | 1.79  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.28 | 172  | 6503     | 1.72  | ng    | 0.00     |
| 78) Terphenyl-d14           | 19.83 | 244  | 5728     | 1.42  | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 10.68 | 128  | 47804    | 7.67  | ng    | 97       |
| 37) 2-Methylnaphthalene     | 12.33 | 142  | 125067   | 29.40 | ng    | 95       |
| 57) Fluorene                | 16.00 | 166  | 13061    | 3.14  | ng    | # 88     |
| 70) Phenanthrene            | 17.63 | 178  | 36686    | 5.95  | ng    | 95       |

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

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF012815\  
Data File : BF077112.D  
Acq On : 28 Jan 2015 20:57  
Operator : TP/IZ  
Sample : G1137-02DL2 50X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
104B1BDL2

Quant Time: Jan 29 11:17:49 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jan 29 00:11:13 2015  
Response via : Initial Calibration

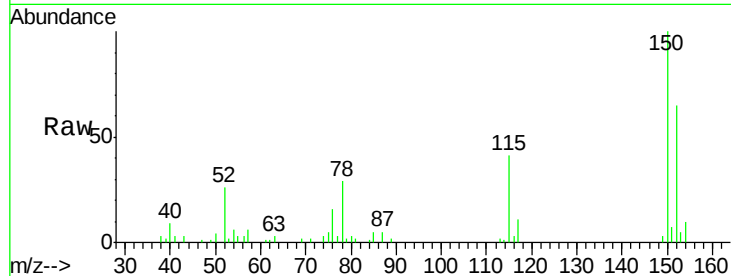




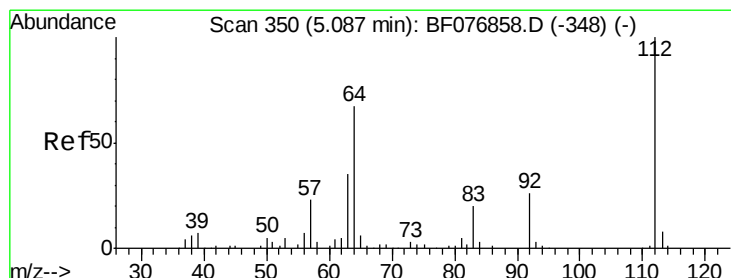
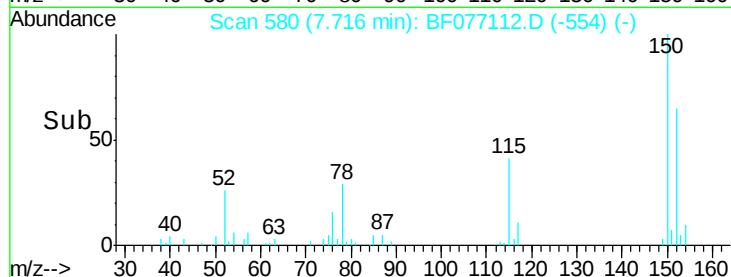
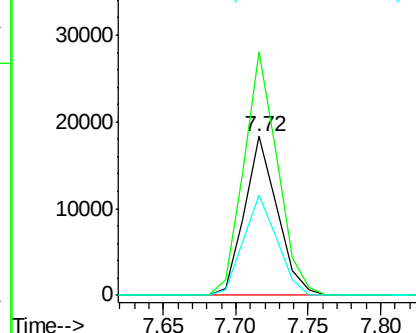
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.72 min Scan# 580  
 Delta R.T. -0.00 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 104B1BDL2

Tgt Ion:152 Resp: 28813  
 Ion Ratio Lower Upper  
 152 100  
 150 153.2 121.7 182.5  
 115 62.9 47.0 70.6

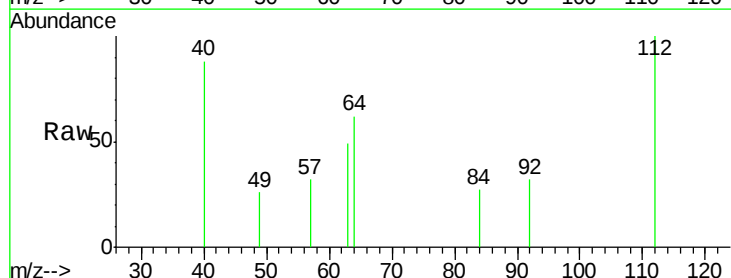


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

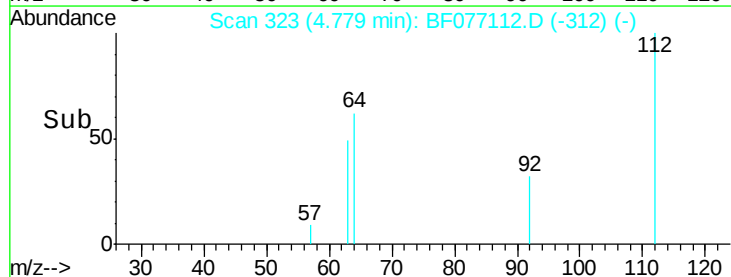
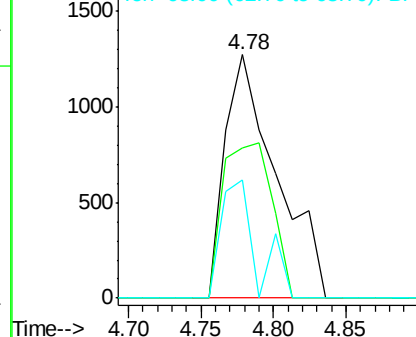


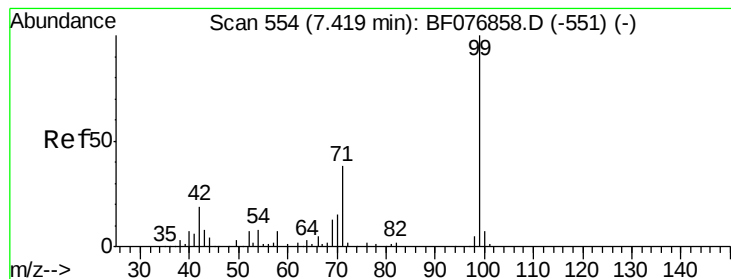
#5  
 2-Fluorophenol  
 Concen: 1.78 ng  
 RT: 4.78 min Scan# 323  
 Delta R.T. 0.02 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

Tgt Ion:112 Resp: 3122  
 Ion Ratio Lower Upper  
 112 100  
 64 61.7 54.2 81.4  
 63 48.7 28.4 42.6#



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: 1.81 ng

RT: 7.17 min Scan# 532

Delta R.T. 0.02 min

Lab File: BF077112.D

Acq: 28 Jan 2015 20:57

Instrument :

BNA\_F

ClientSampleId :

104B1BDL2

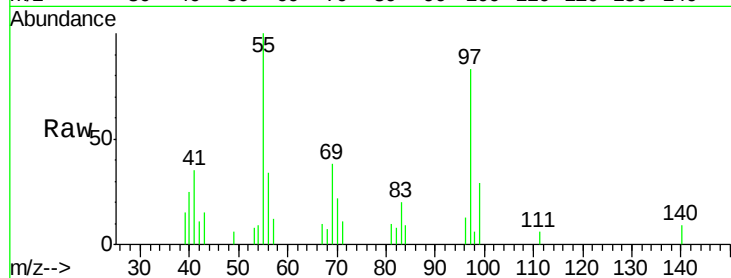
Tgt Ion: 99 Resp: 4009

Ion Ratio Lower Upper

99 100

42 38.4 15.0 22.4#

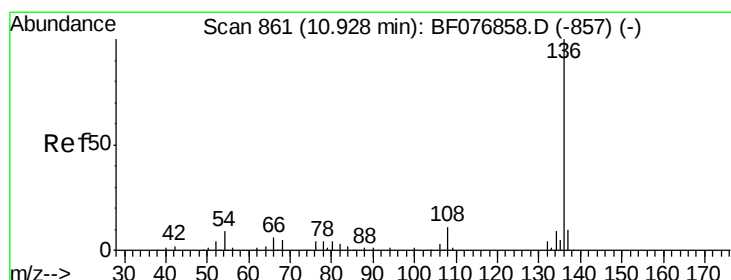
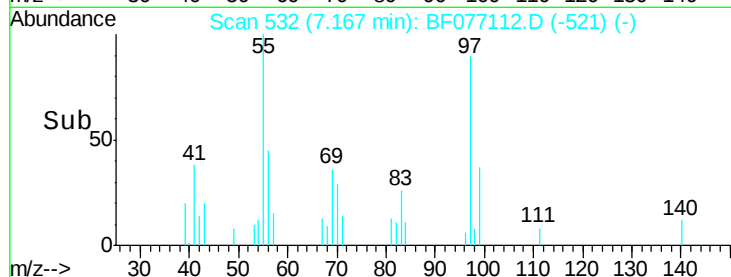
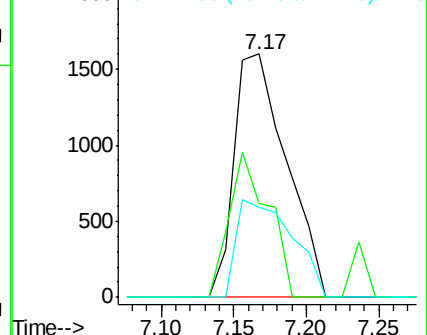
71 36.9 30.5 45.7



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: 10.63 min Scan# 835

Delta R.T. -0.00 min

Lab File: BF077112.D

Acq: 28 Jan 2015 20:57

Tgt Ion: 136 Resp: 121011

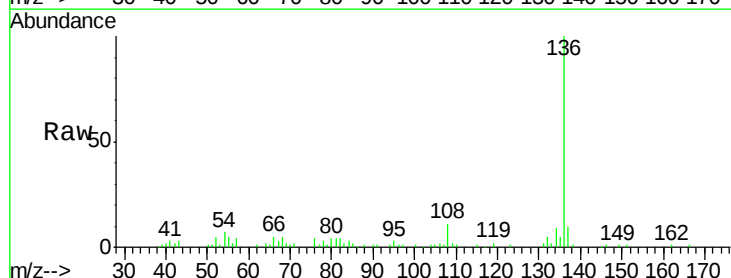
Ion Ratio Lower Upper

136 100

137 10.3 8.1 12.1

54 7.0 7.0 10.4

68 5.0 3.7 5.5

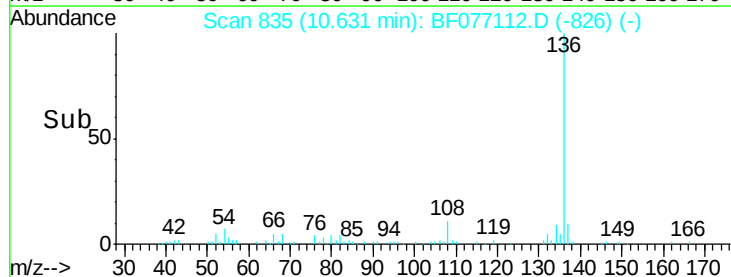
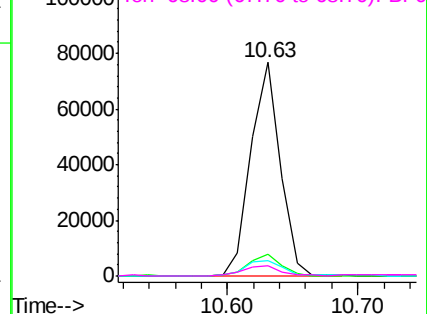


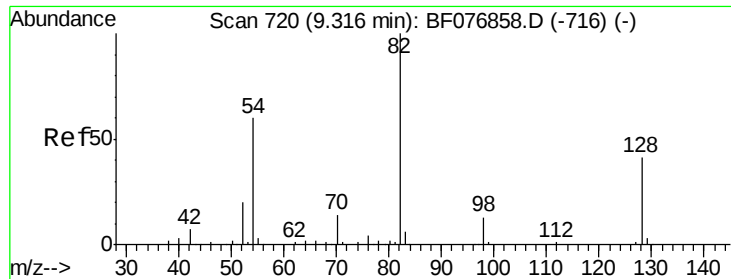
Abundance Ion 136.00 (135.70 to 136.70): E

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

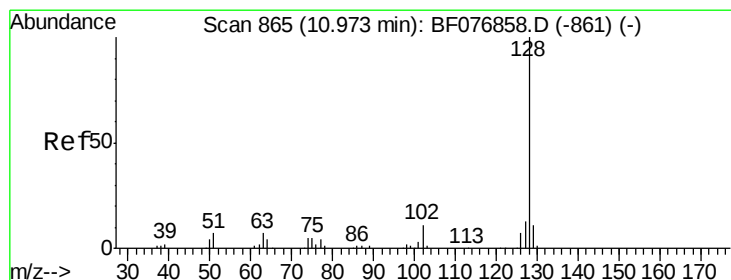
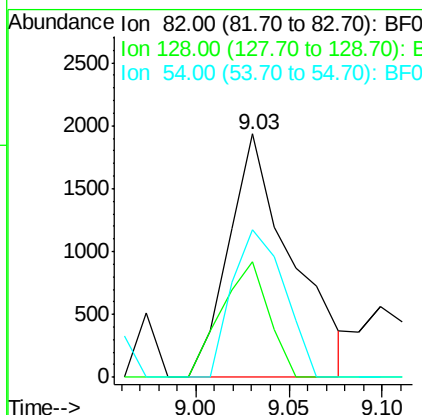
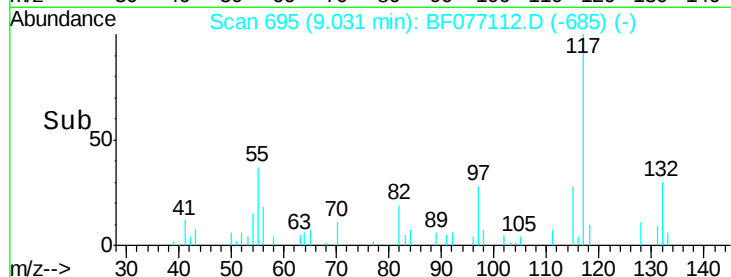
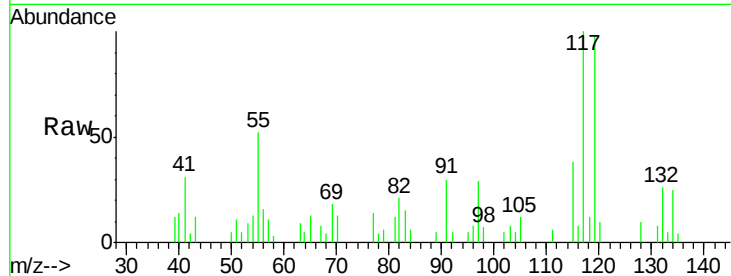




#23  
 Nitrobenzene-d5  
 Concen: 2.08 ng  
 RT: 9.03 min Scan# 695  
 Delta R.T. 0.01 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

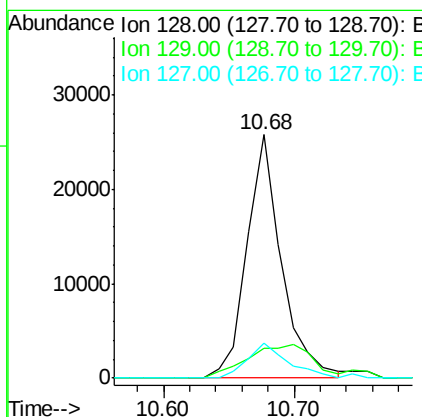
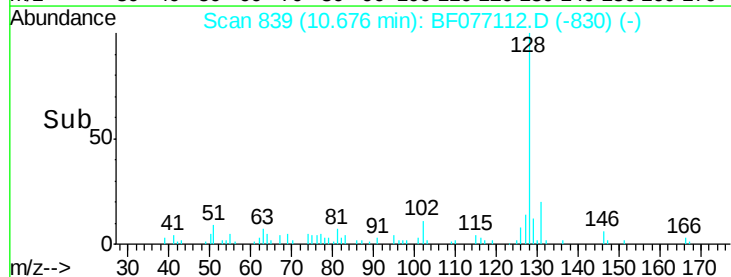
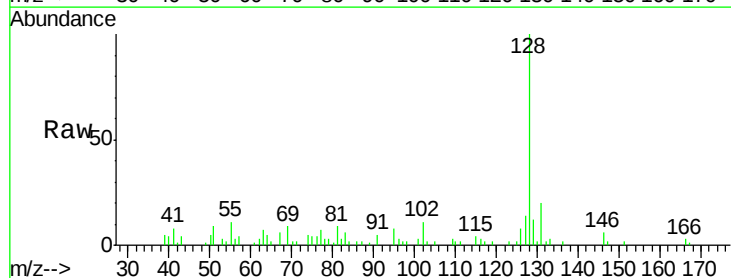
Instrument :  
 BNA\_F  
 ClientSampleId :  
 104B1BDL2

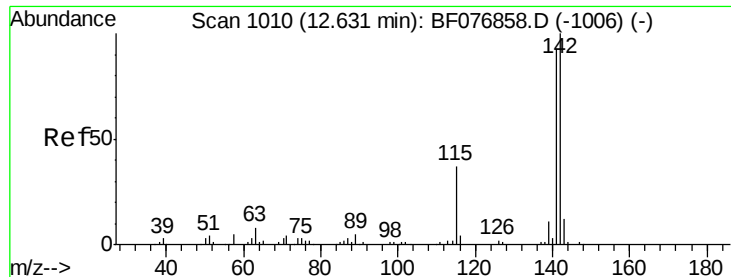
Tgt Ion: 82 Resp: 4550  
 Ion Ratio Lower Upper  
 82 100  
 128 47.3 33.1 49.7  
 54 60.8 48.3 72.5



#31  
 Naphthalene  
 Concen: 7.67 ng  
 RT: 10.68 min Scan# 839  
 Delta R.T. -0.00 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

Tgt Ion: 128 Resp: 47804  
 Ion Ratio Lower Upper  
 128 100  
 129 12.3 9.0 13.6  
 127 14.3 10.2 15.2

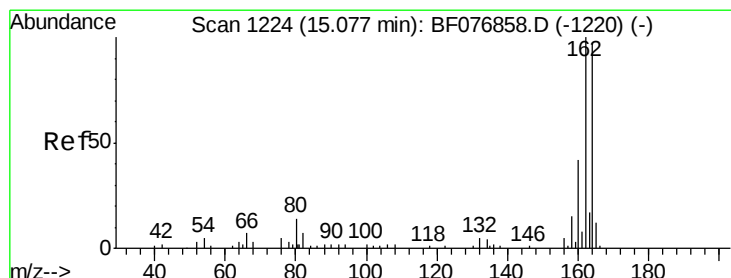
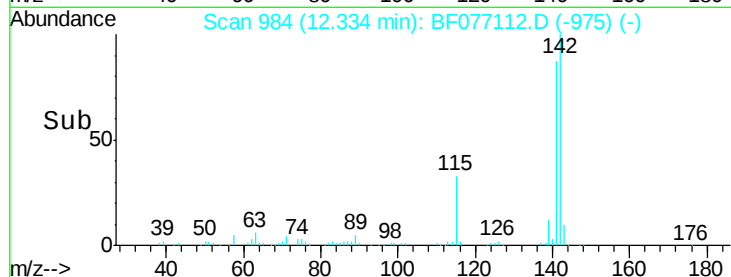
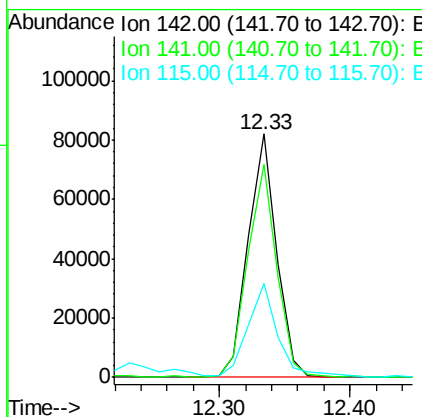
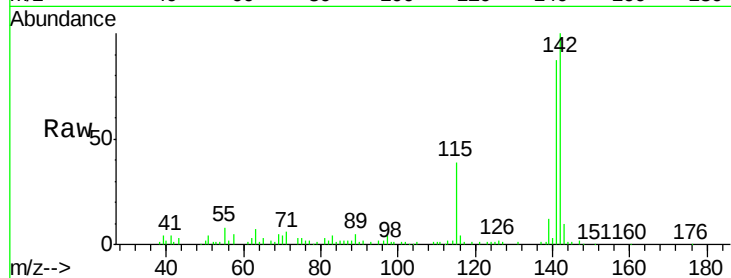




#37  
2-Methylnaphthalene  
Concen: 29.40 ng  
RT: 12.33 min Scan# 984  
Delta R.T. -0.00 min  
Lab File: BF077112.D  
Acq: 28 Jan 2015 20:57

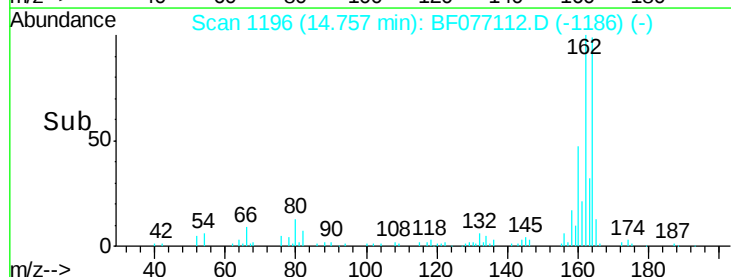
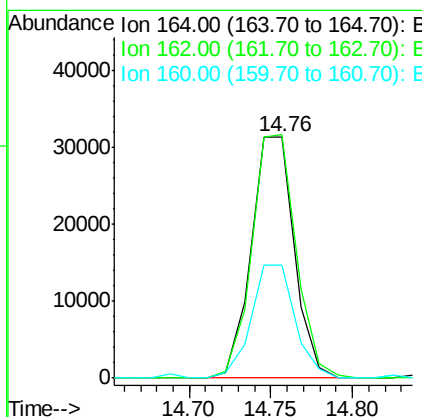
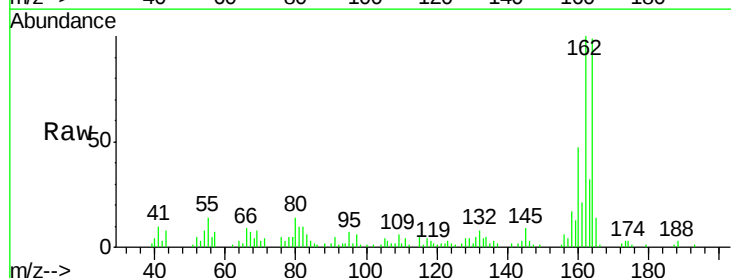
Instrument :  
BNA\_F  
ClientSampled :  
104B1BDL2

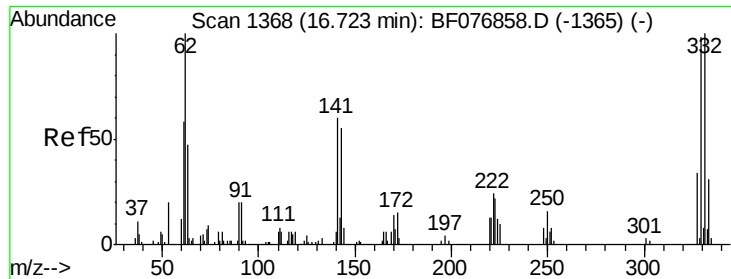
Tgt Ion:142 Resp: 125067  
Ion Ratio Lower Upper  
142 100  
141 87.3 74.5 111.7  
115 38.7 29.7 44.5



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.76 min Scan# 1196  
Delta R.T. 0.01 min  
Lab File: BF077112.D  
Acq: 28 Jan 2015 20:57

Tgt Ion:164 Resp: 57680  
Ion Ratio Lower Upper  
164 100  
162 100.8 82.4 123.6  
160 47.1 34.8 52.2

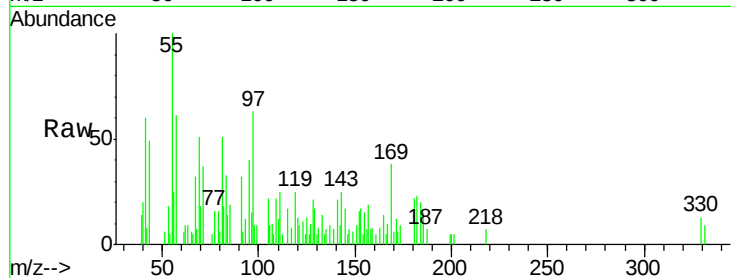




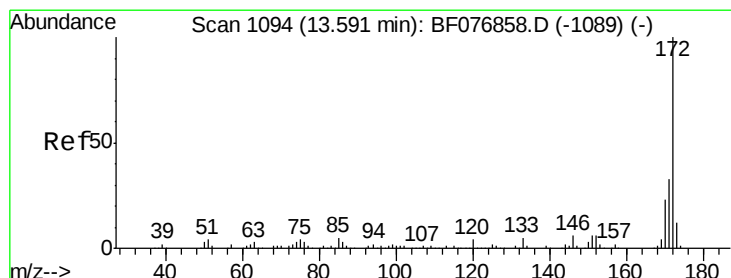
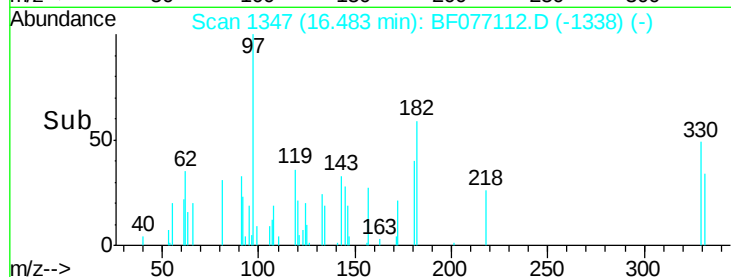
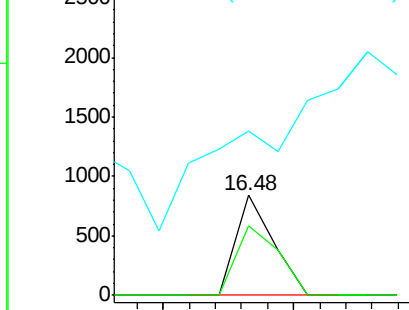
#41  
 2,4,6-Tribromophenol  
 Concen: 1.79 ng  
 RT: 16.48 min Scan# 1347  
 Delta R.T. -0.00 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 104B1BDL2

Tgt Ion: 330 Resp: 837  
 Ion Ratio Lower Upper  
 330 100  
 332 79.0 77.8 116.6  
 141 0.0 38.5 57.7#

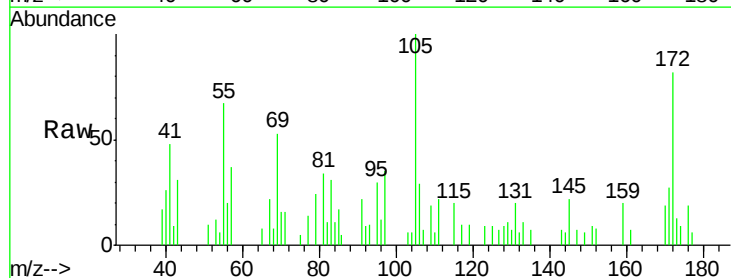


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

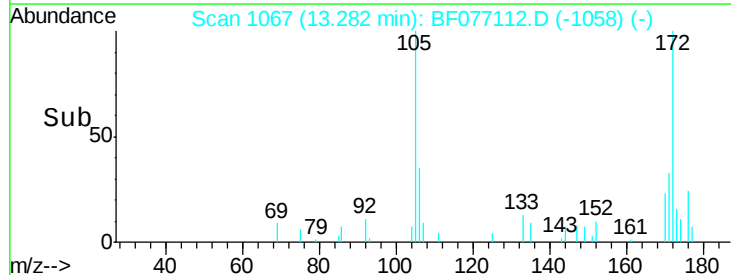
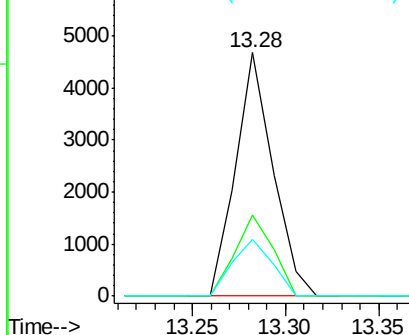


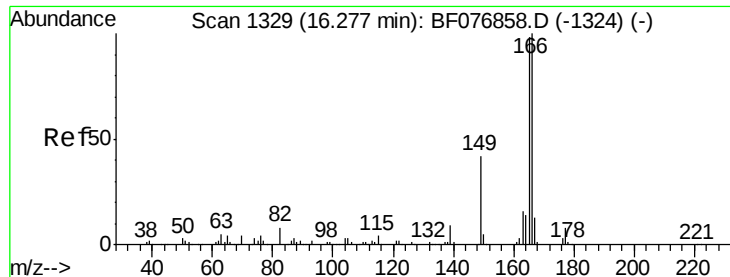
#44  
 2-Fluorobiphenyl  
 Concen: 1.72 ng  
 RT: 13.28 min Scan# 1067  
 Delta R.T. -0.00 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

Tgt Ion: 172 Resp: 6503  
 Ion Ratio Lower Upper  
 172 100  
 171 33.1 26.6 40.0  
 170 23.4 18.0 27.0



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

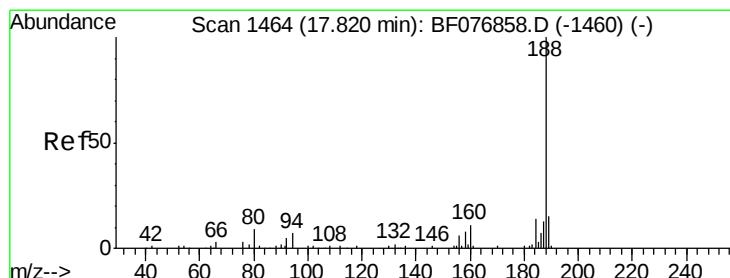
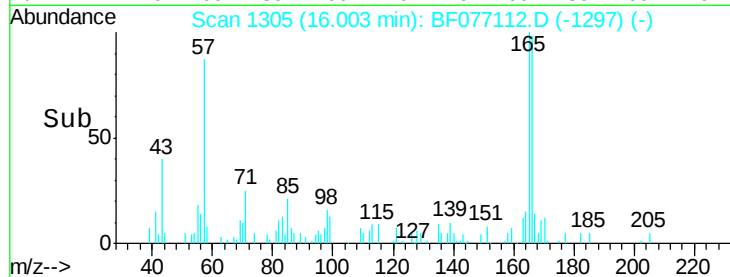
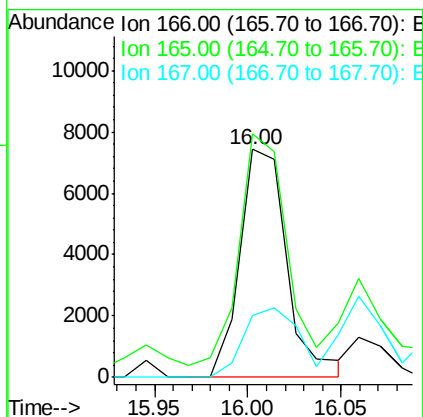
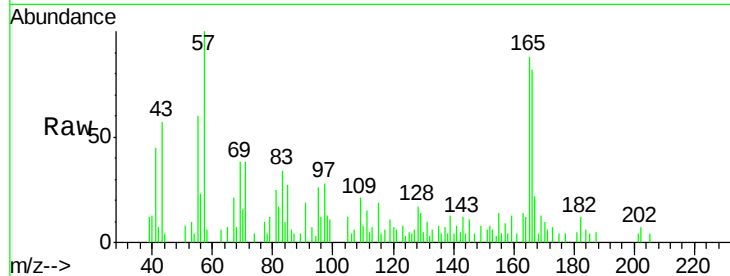




#57  
**Fluorene**  
 Concen: 3.14 ng  
 RT: 16.00 min Scan# 1305  
 Delta R.T. -0.01 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

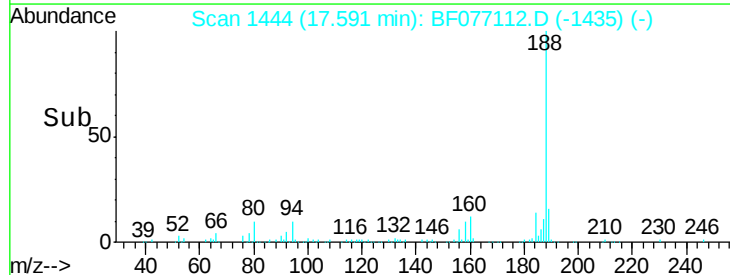
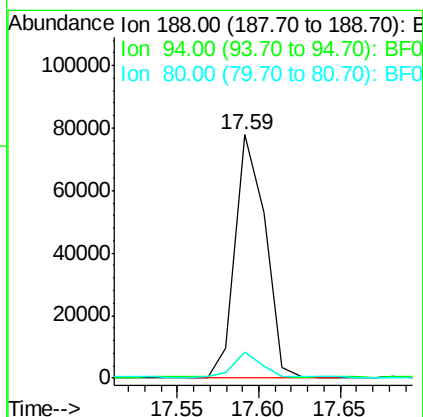
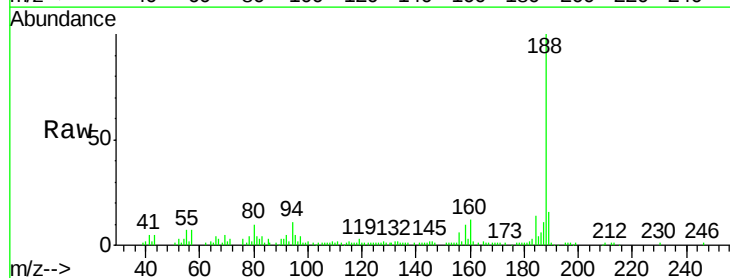
Instrument :  
 BNA\_F  
 ClientSampleId :  
 104B1BDL2

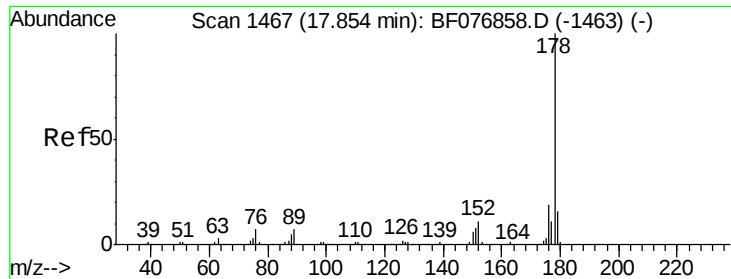
Tgt Ion:166 Resp: 13061  
 Ion Ratio Lower Upper  
 166 100  
 165 106.9 78.5 117.7  
 167 27.3 10.4 15.6#



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 17.59 min Scan# 1444  
 Delta R.T. -0.00 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

Tgt Ion:188 Resp: 98884  
 Ion Ratio Lower Upper  
 188 100  
 94 10.9 6.0 9.0#  
 80 10.5 6.9 10.3#

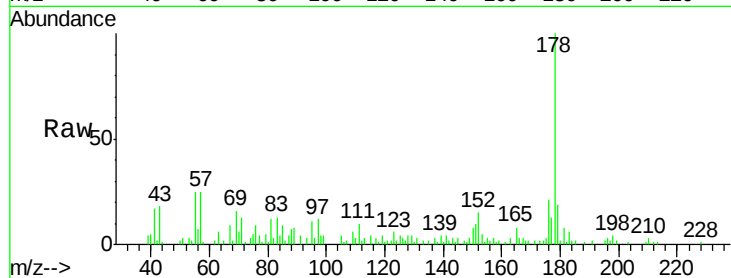




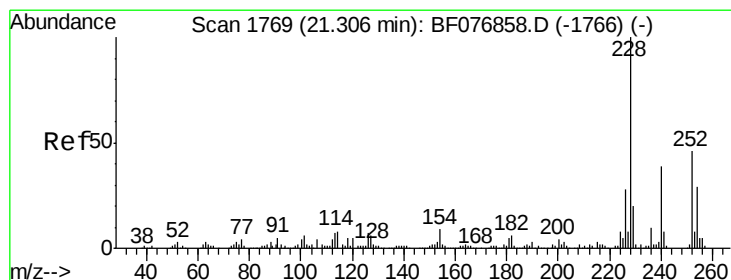
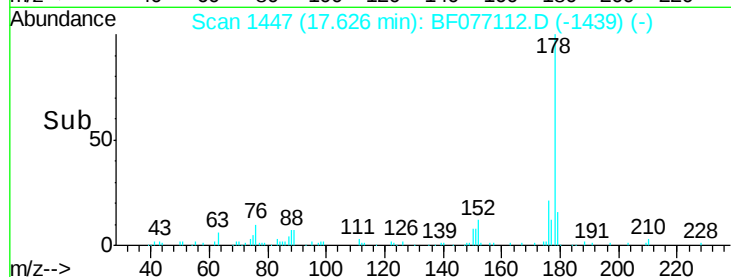
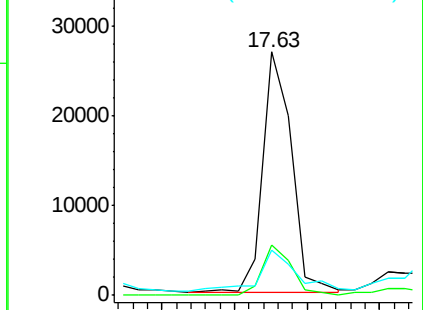
#70  
Phenanthrene  
Concen: 5.95 ng  
RT: 17.63 min Scan# 1447  
Delta R.T. -0.01 min  
Lab File: BF077112.D  
Acq: 28 Jan 2015 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
104B1BDL2

Tgt Ion:178 Resp: 36686  
Ion Ratio Lower Upper  
178 100  
176 20.7 15.1 22.7  
179 18.6 12.7 19.1

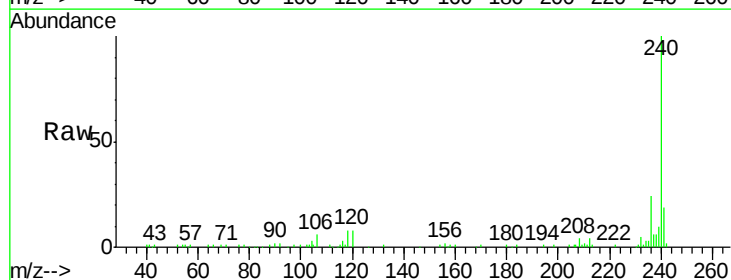


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

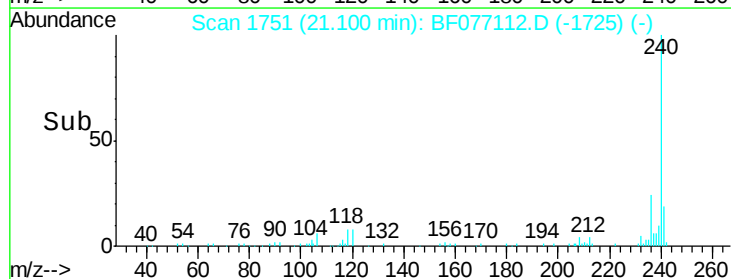
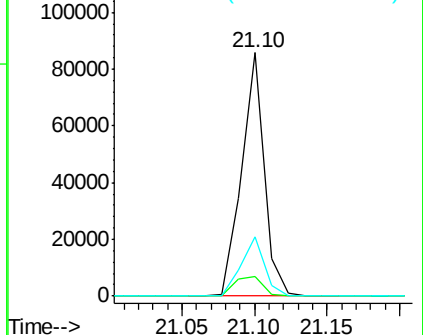


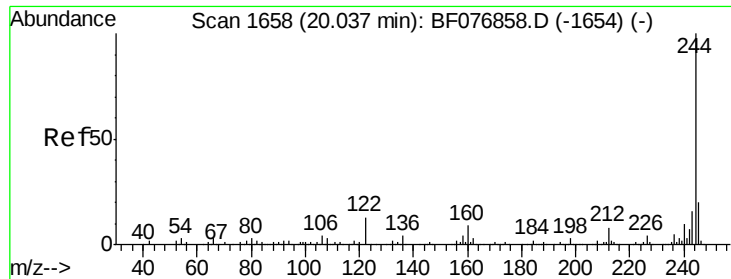
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.10 min Scan# 1751  
Delta R.T. -0.00 min  
Lab File: BF077112.D  
Acq: 28 Jan 2015 20:57

Tgt Ion:240 Resp: 93105  
Ion Ratio Lower Upper  
240 100  
120 8.3 10.4 15.6#  
236 24.1 20.2 30.2



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

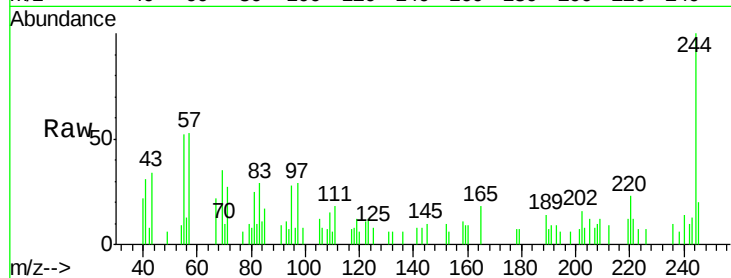




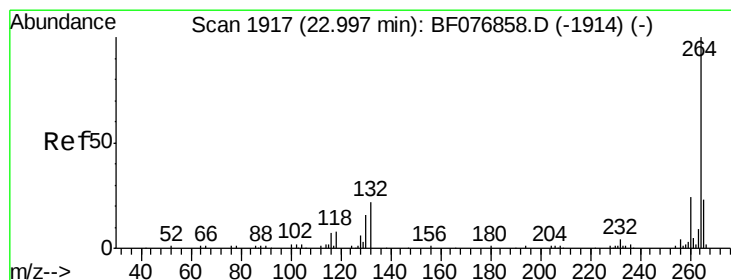
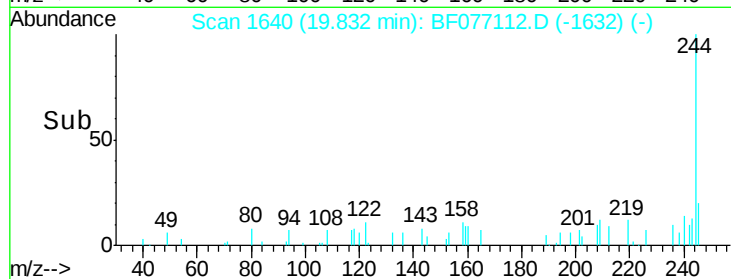
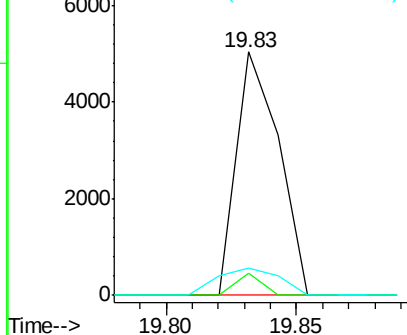
#78  
 Terphenyl-d14  
 Concen: 1.42 ng  
 RT: 19.83 min Scan# 1640  
 Delta R.T. -0.01 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 104B1BDL2

Tgt Ion: 244 Resp: 5728  
 Ion Ratio Lower Upper  
 244 100  
 212 9.0 6.3 9.5  
 122 11.4 10.1 15.1

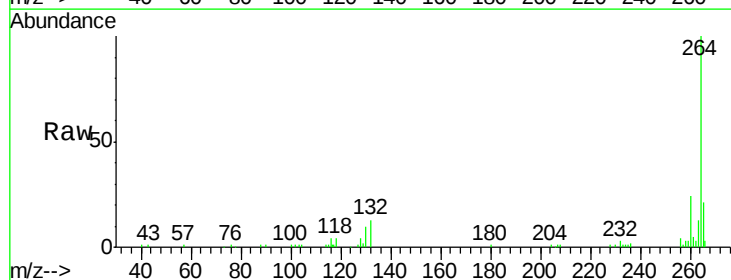


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 22.75 min Scan# 1895  
 Delta R.T. -0.00 min  
 Lab File: BF077112.D  
 Acq: 28 Jan 2015 20:57

Tgt Ion: 264 Resp: 88852  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.0 28.4  
 265 21.5 18.1 27.1



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

