

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112115\  
 Data File : BF083121.D  
 Acq On : 21 Nov 2015 20:02  
 Operator : UM/IZ  
 Sample : PB86744BL  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86744BL

Quant Time: Nov 22 01:51:34 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 01:05:26 2015  
 Response via : Initial Calibration

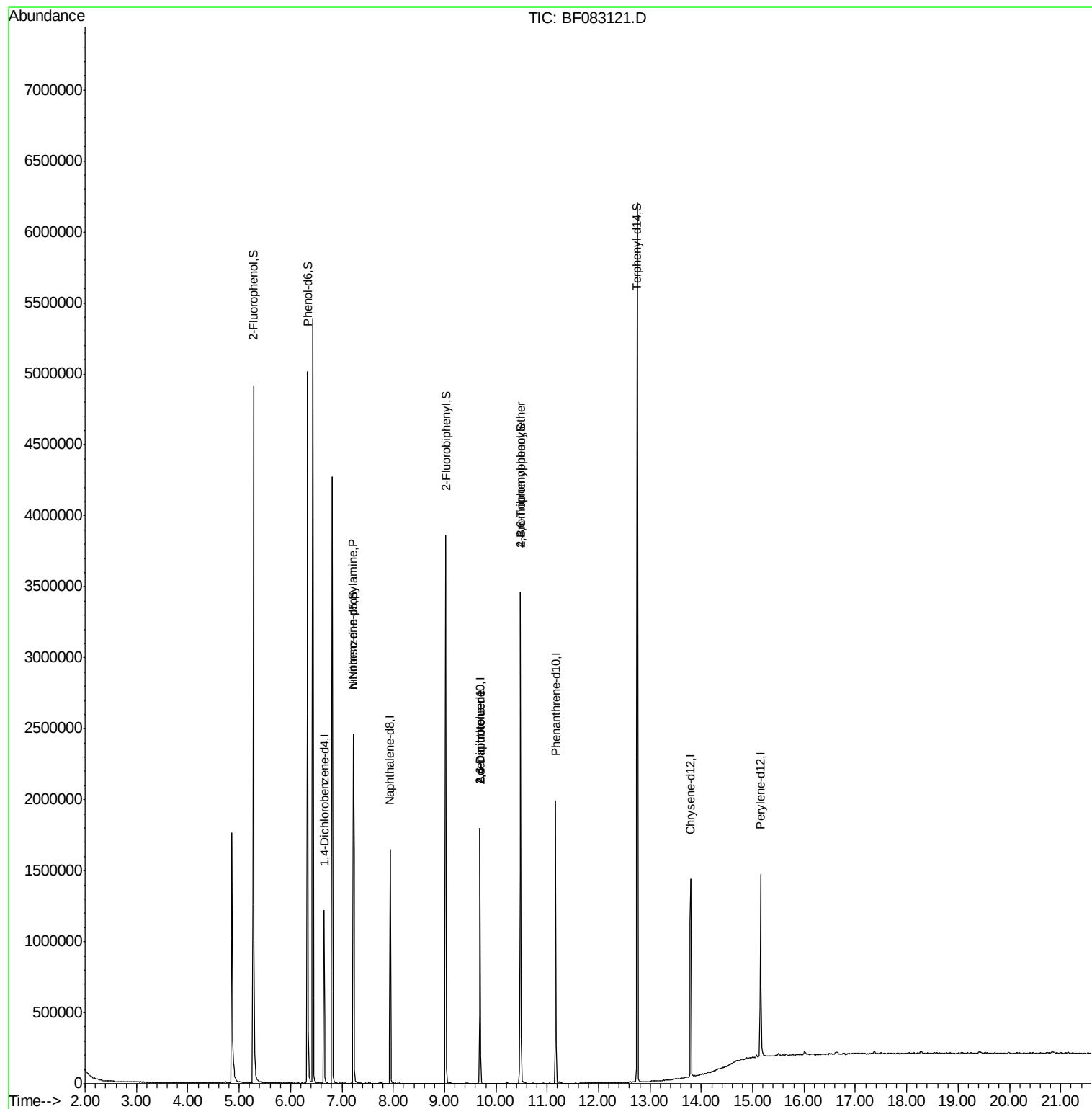
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.65  | 152  | 191809   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.94  | 136  | 732105   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.69  | 164  | 375787   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.16 | 188  | 714944   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.79 | 240  | 690895   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.15 | 264  | 595114   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.28  | 112  | 1407611  | 55.47     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.33  | 99   | 1958054  | 59.64     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.22  | 82   | 1121650  | 35.00     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.48 | 330  | 419792   | 54.60     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.03  | 172  | 1962176  | 36.41     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.75 | 244  | 1993895  | 33.98     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.33  | 77   | 2747     | Below Cal | #     | 4        |
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70   | 147469   | 12.91     | ng    | # 79     |
| 50) 2,6-Dinitrotoluene         | 9.69  | 165  | 49540    | 7.63      | ng    | # 13     |
| 56) 2,4-Dinitrotoluene         | 9.69  | 165  | 49532    | 6.02      | ng    | # 10     |
| 66) 4-Bromophenyl-phenylether  | 10.48 | 248  | 30088    | 3.79      | ng    | # 1      |

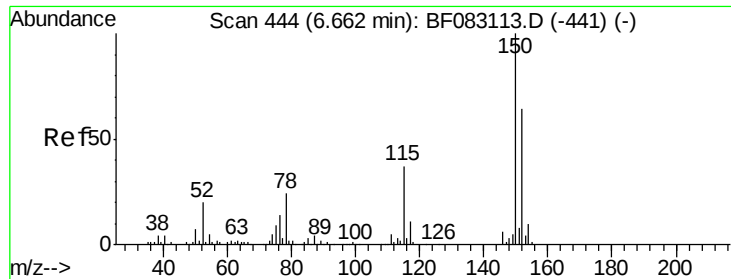
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112115\  
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Misc :  
ALS Vial : 14 Sample Multiplier: 1

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Quant Time: Nov 22 01:51:34 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 01:05:26 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: BF083121.D

Acq: 21 Nov 2015 20:02

Instrument :

BNA\_F

ClientSampleId :

PB86744BL

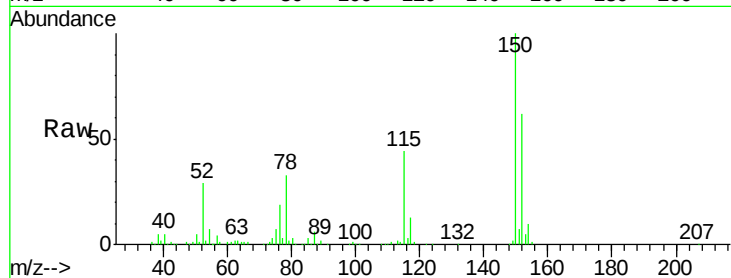
Tgt Ion:152 Resp: 191809

Ion Ratio Lower Upper

152 100

150 162.5 125.8 188.8

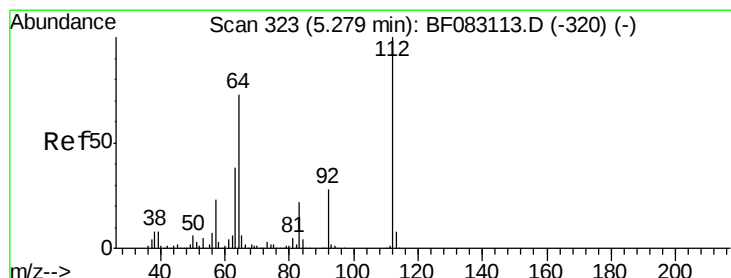
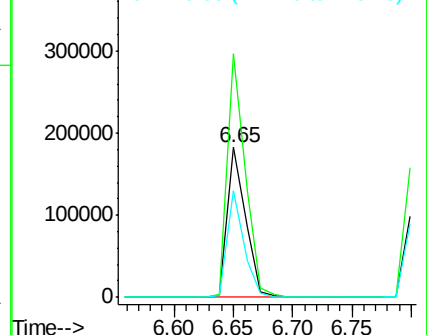
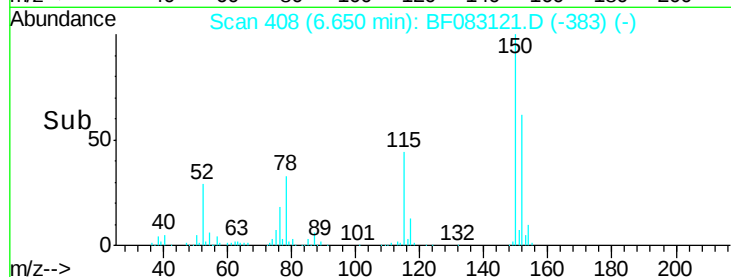
115 71.2 46.9 70.3#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 55.47 ng

RT: 5.28 min Scan# 288

Delta R.T. -0.00 min

Lab File: BF083121.D

Acq: 21 Nov 2015 20:02

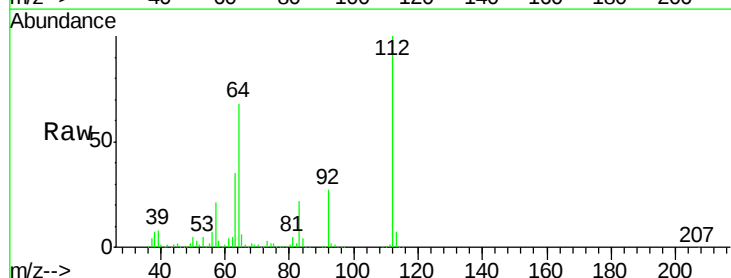
Tgt Ion:112 Resp: 1407611

Ion Ratio Lower Upper

112 100

64 68.3 58.4 87.6

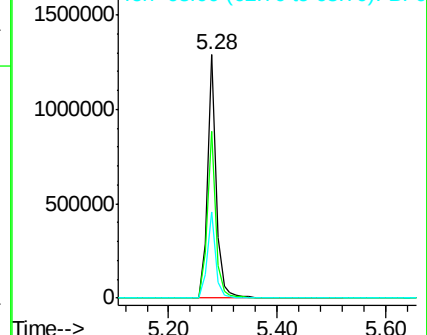
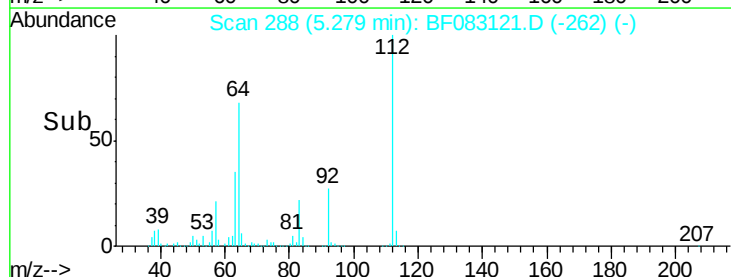
63 35.2 30.0 45.0



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: 59.64 ng

RT: 6.33 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF083121.D

Acq: 21 Nov 2015 20:02

Instrument :

BNA\_F

ClientSampleId :

PB86744BL

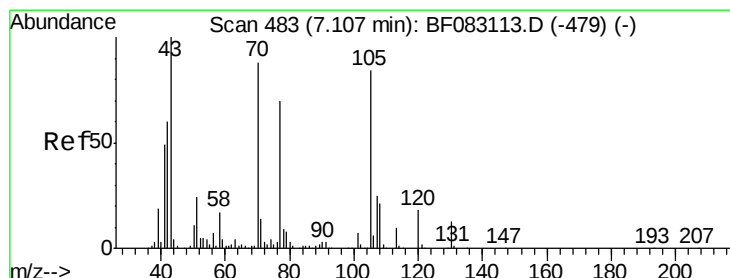
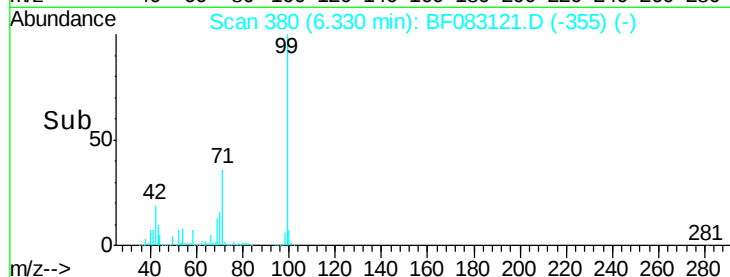
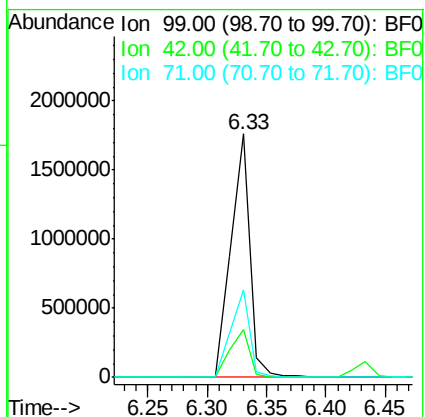
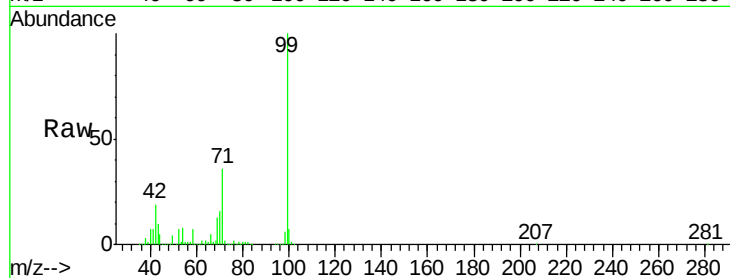
Tgt Ion: 99 Resp: 1958054

Ion Ratio Lower Upper

99 100

42 19.4 17.7 26.5

71 35.8 30.2 45.4



#19

n-Nitroso-di-n-propylamine

Concen: 12.91 ng

RT: 7.22 min Scan# 458

Delta R.T. 0.11 min

Lab File: BF083121.D

Acq: 21 Nov 2015 20:02

Tgt Ion: 70 Resp: 147469

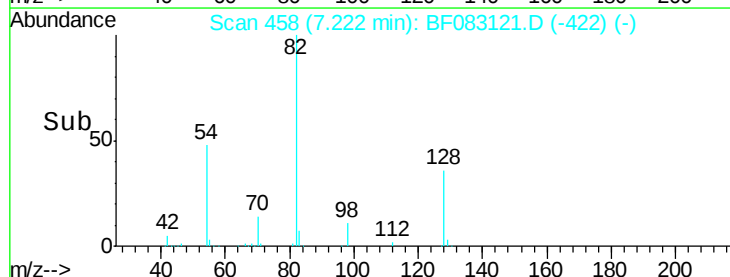
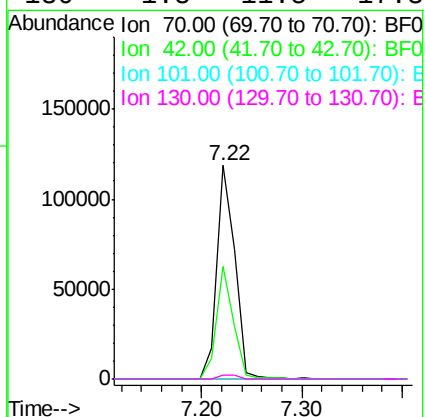
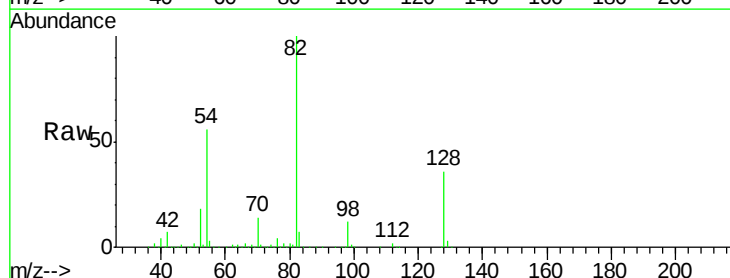
Ion Ratio Lower Upper

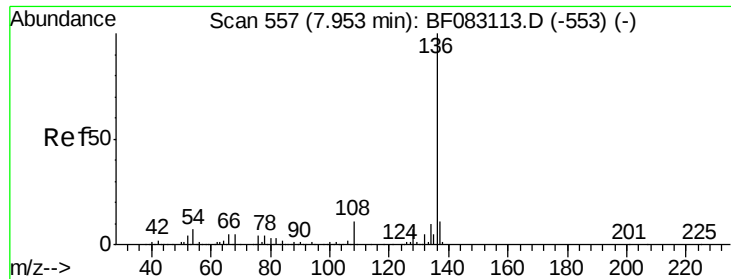
70 100

42 52.8 54.5 81.7#

101 0.0 6.6 9.8#

130 1.8 11.5 17.3#

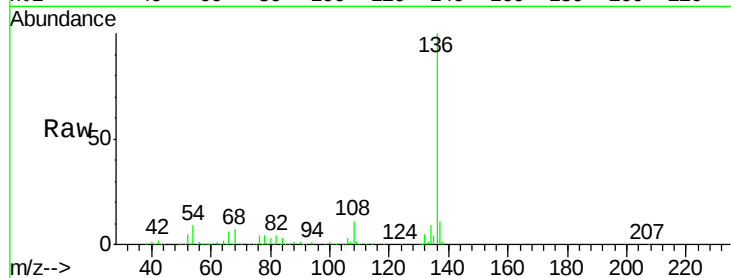




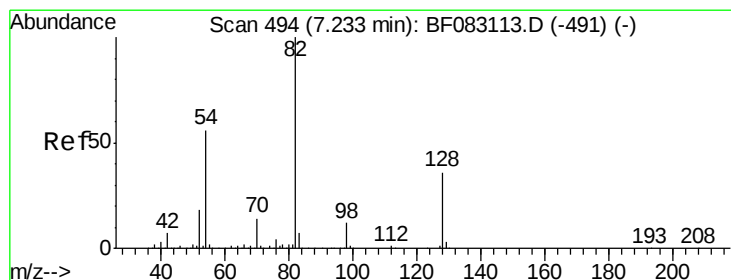
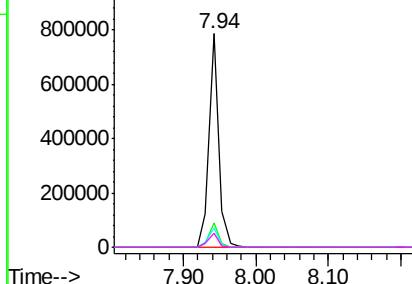
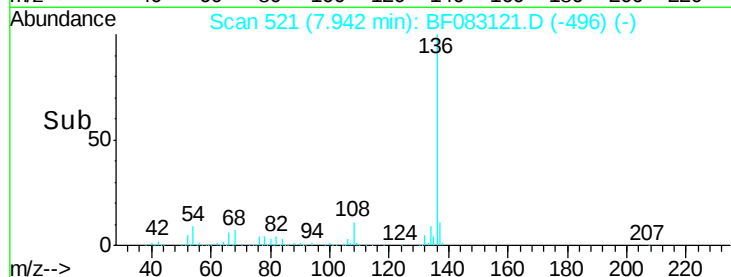
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.94 min Scan# 521  
Delta R.T. -0.01 min  
Lab File: BF083121.D  
Acq: 21 Nov 2015 20:02

Instrument :  
BNA\_F  
ClientSampleId :  
PB86744BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 732105 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.7   | 13.1   |
| 54       | 8.9   | 5.8   | 8.6#   |
| 68       | 6.6   | 3.8   | 5.8#   |

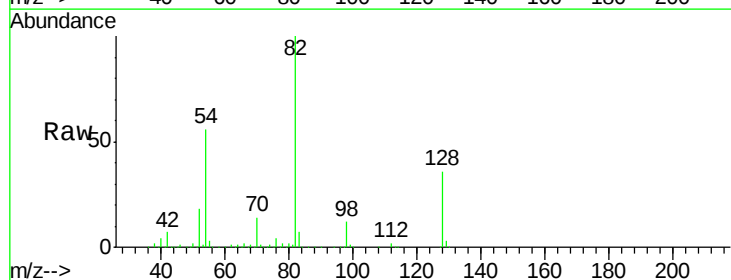


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

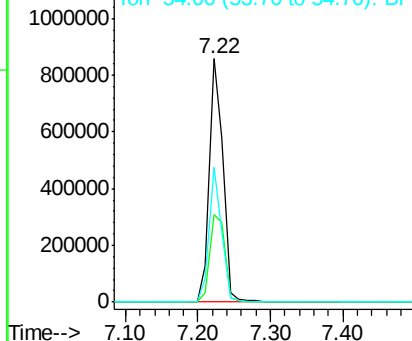
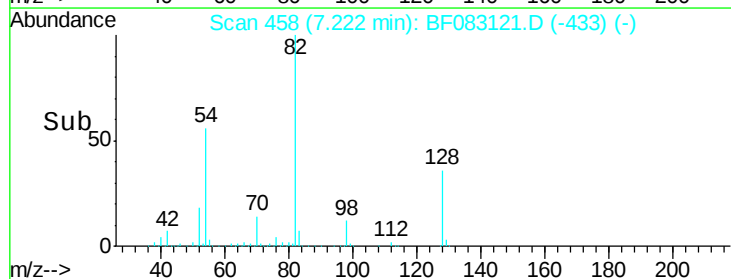


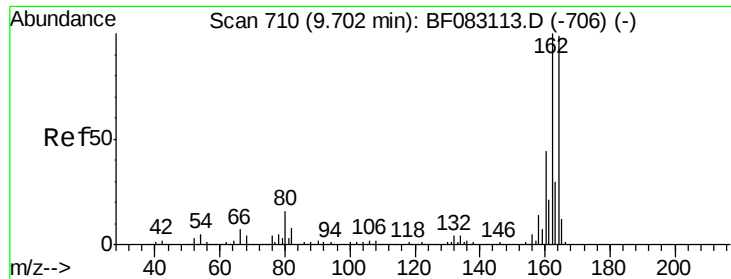
#23  
Nitrobenzene-d5  
Concen: 35.00 ng  
RT: 7.22 min Scan# 458  
Delta R.T. -0.01 min  
Lab File: BF083121.D  
Acq: 21 Nov 2015 20:02

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1121650 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 35.8  | 28.5  | 42.7    |
| 54       | 55.6  | 44.6  | 67.0    |



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.69 min Scan# 674

Delta R.T. -0.01 min

Lab File: BF083121.D

Acq: 21 Nov 2015 20:02

Instrument :

BNA\_F

ClientSampleId :

PB86744BL

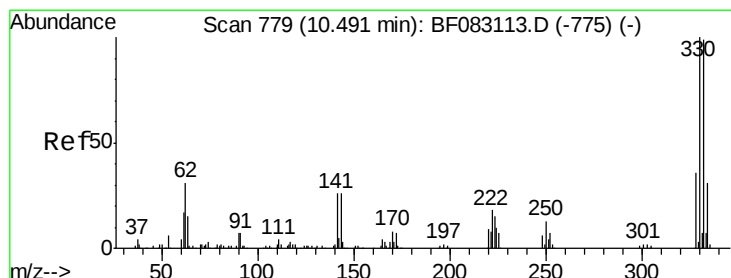
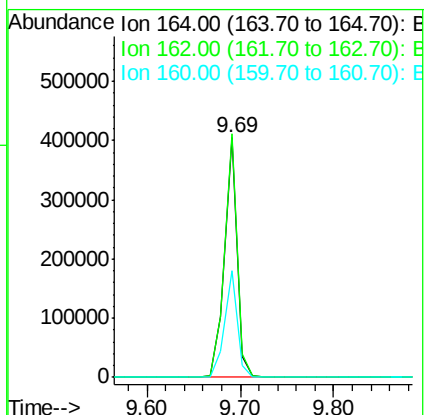
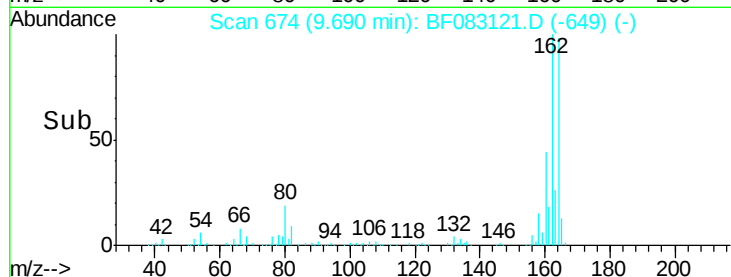
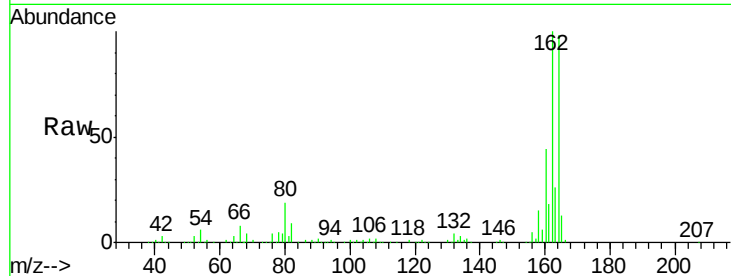
Tgt Ion:164 Resp: 375787

Ion Ratio Lower Upper

164 100

162 101.8 81.2 121.8

160 44.7 35.6 53.4



#41

2,4,6-Tribromophenol

Concen: 54.60 ng

RT: 10.48 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF083121.D

Acq: 21 Nov 2015 20:02

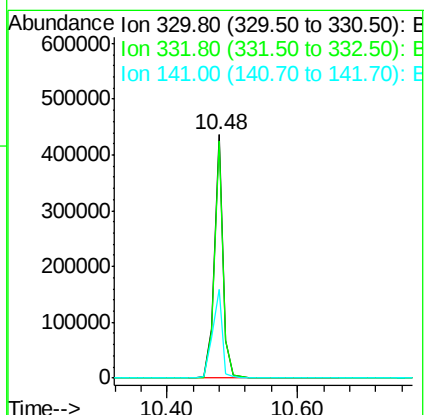
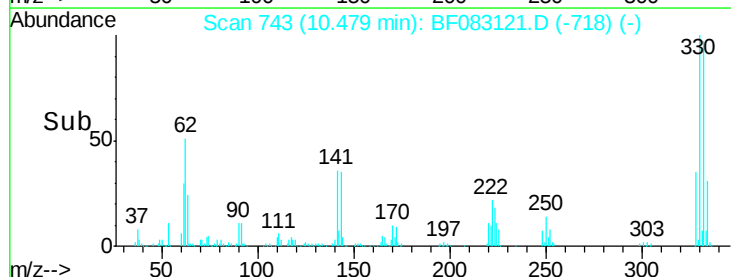
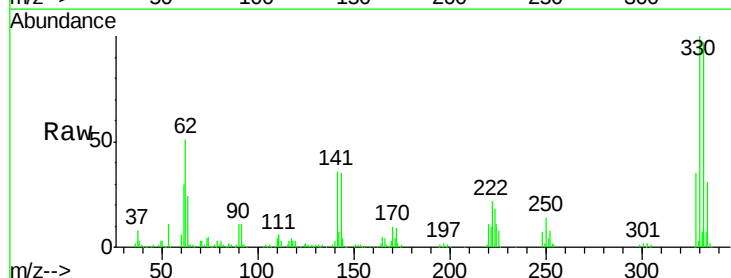
Tgt Ion:330 Resp: 419792

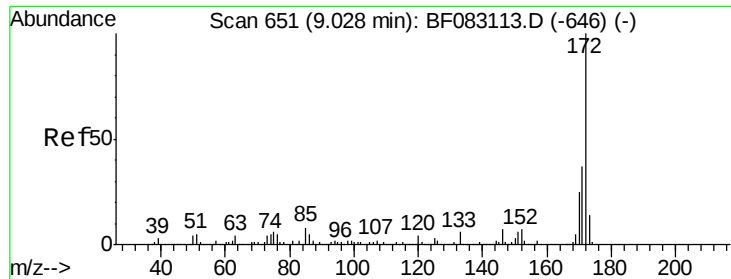
Ion Ratio Lower Upper

330 100

332 96.9 77.7 116.5

141 40.6 29.7 44.5

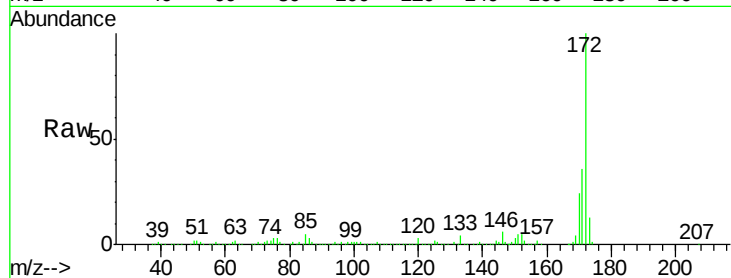




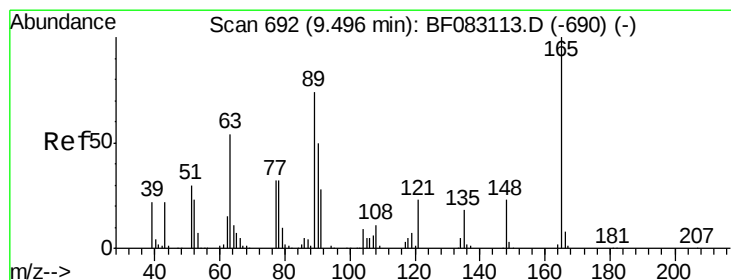
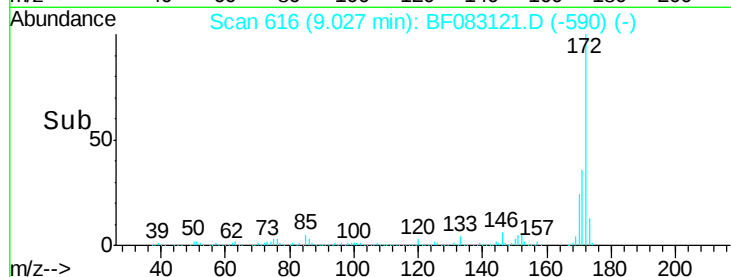
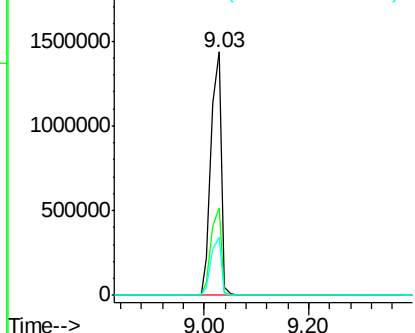
#44  
 2-Fluorobiphenyl  
 Concen: 36.41 ng  
 RT: 9.03 min Scan# 616  
 Delta R.T. -0.00 min  
 Lab File: BF083121.D  
 Acq: 21 Nov 2015 20:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86744BL

Tgt Ion:172 Resp: 1962176  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.5 44.3  
 170 24.1 19.9 29.9

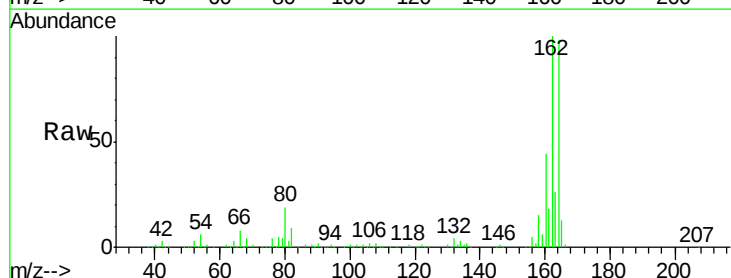


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

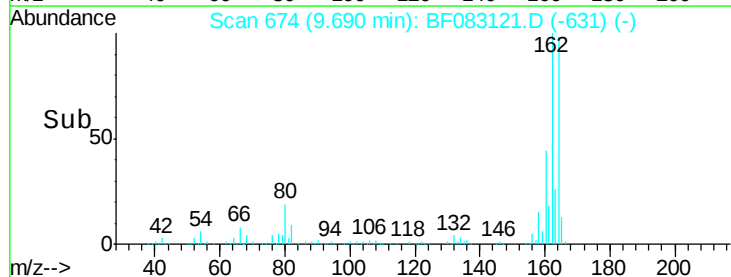
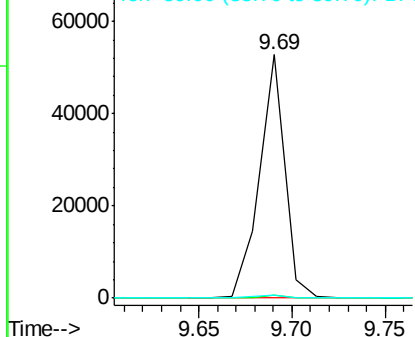


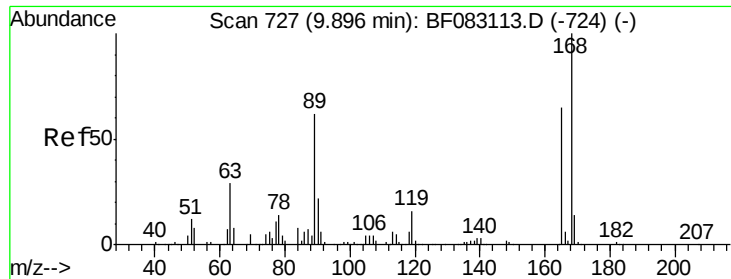
#50  
 2,6-Dinitrotoluene  
 Concen: 7.63 ng  
 RT: 9.69 min Scan# 674  
 Delta R.T. 0.19 min  
 Lab File: BF083121.D  
 Acq: 21 Nov 2015 20:02

Tgt Ion:165 Resp: 49540  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 62.5 93.7#  
 89 1.5 59.1 88.7#



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

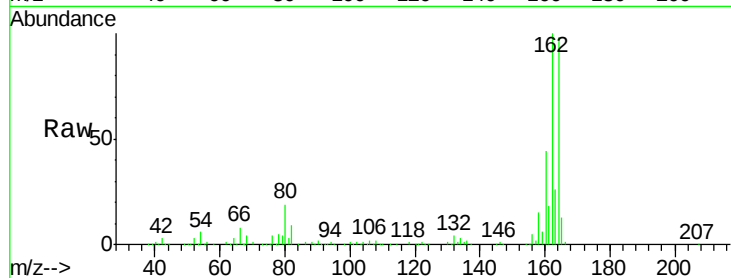




#56  
 2,4-Dinitrotoluene  
 Concen: 6.02 ng  
 RT: 9.69 min Scan# 674  
 Delta R.T. -0.21 min  
 Lab File: BF083121.D  
 Acq: 21 Nov 2015 20:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86744BL

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 1.4   | 54.5  | 81.7#  |
| 89      | 1.5   | 77.3  | 115.9# |
| 182     | 0.0   | 1.8   | 2.6#   |

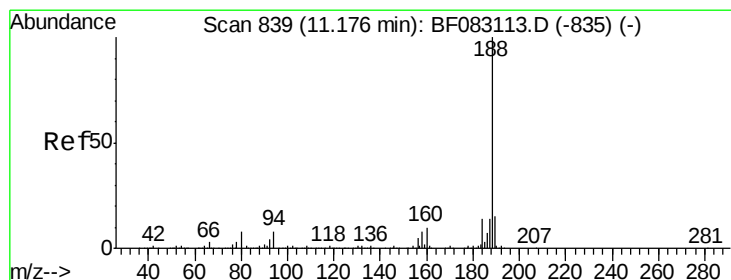
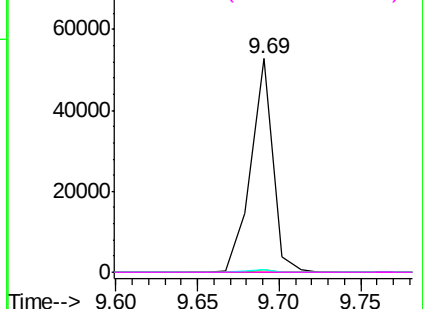
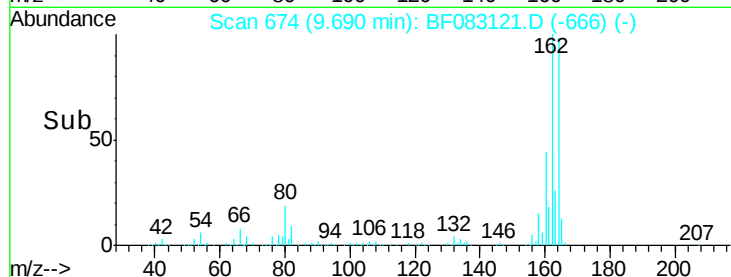


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

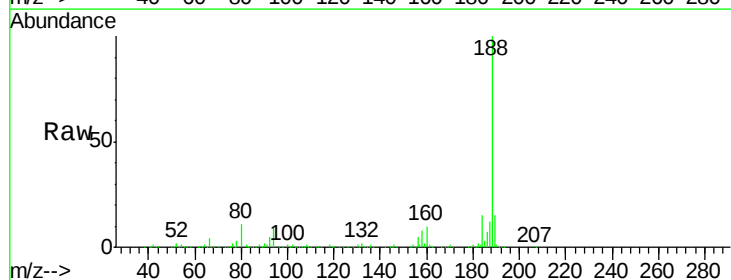
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.16 min Scan# 803  
 Delta R.T. -0.01 min  
 Lab File: BF083121.D  
 Acq: 21 Nov 2015 20:02

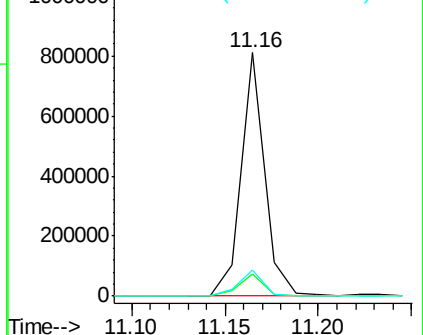
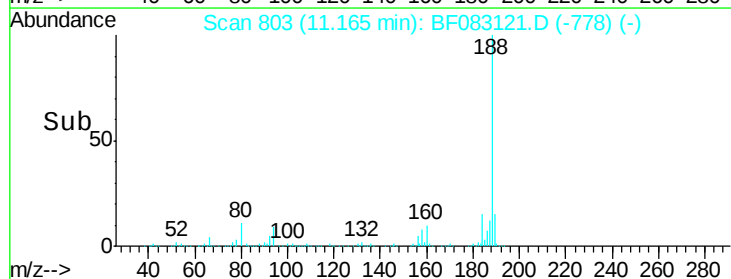
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.2   | 6.0   | 9.0#  |
| 80      | 10.9  | 6.7   | 10.1# |

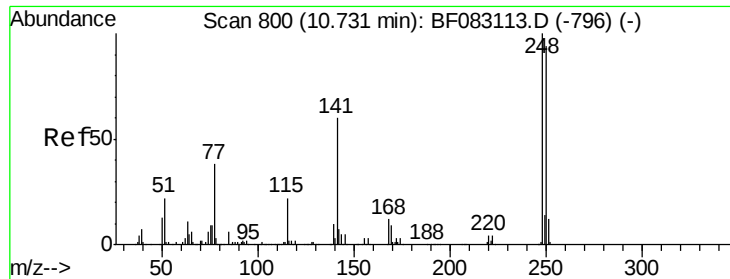


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

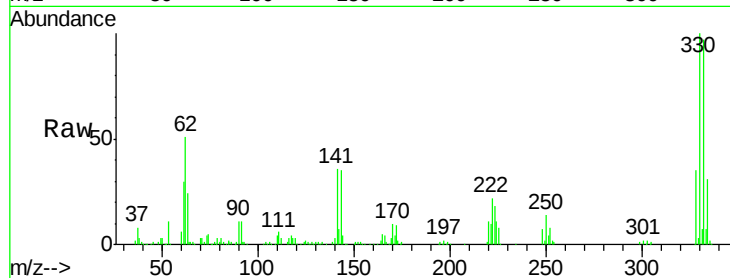




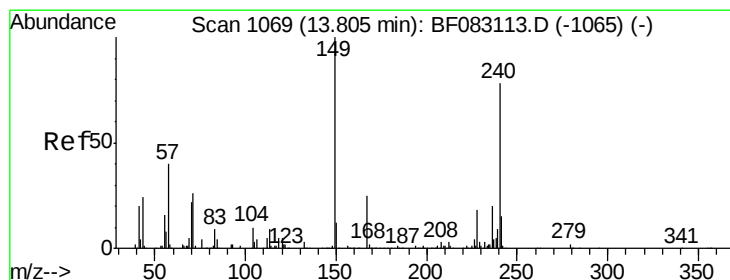
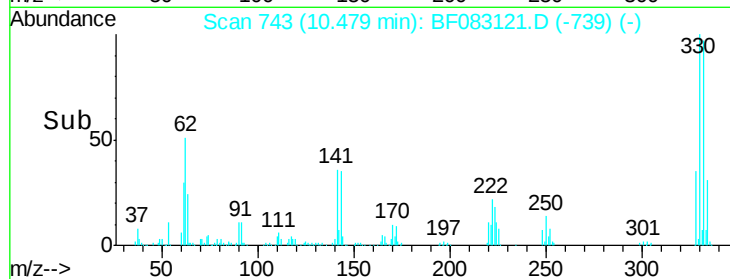
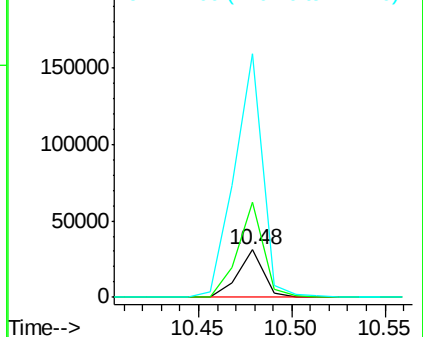
#66  
4-Bromophenyl-phenylether  
Concen: 3.79 ng  
RT: 10.48 min Scan# 743  
Delta R.T. -0.25 min  
Lab File: BF083121.D  
Acq: 21 Nov 2015 20:02

Instrument :  
BNA\_F  
ClientSampleId :  
PB86744BL

Tgt Ion:248 Resp: 30088  
Ion Ratio Lower Upper  
248 100  
250 201.0 75.4 113.2#  
141 512.7 48.1 72.1#

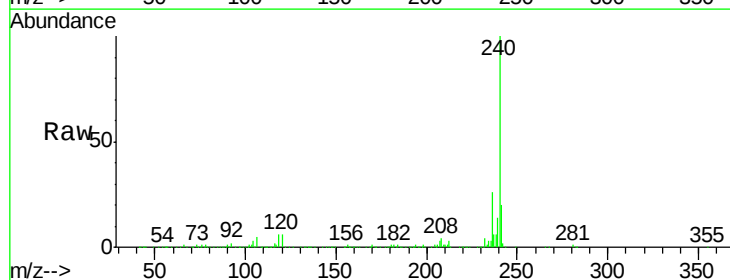


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

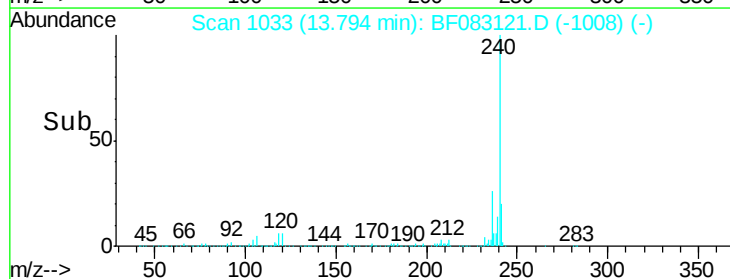
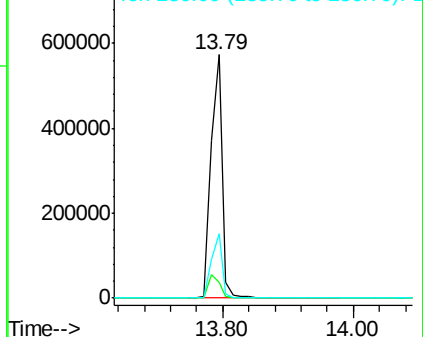


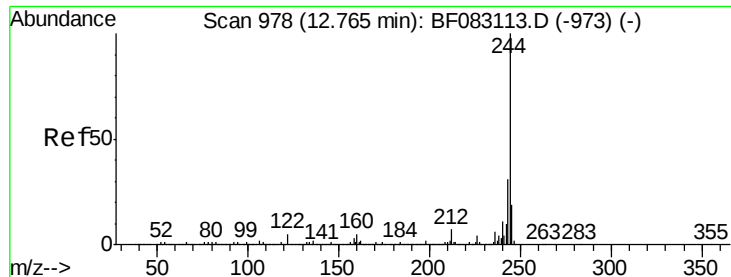
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.79 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF083121.D  
Acq: 21 Nov 2015 20:02

Tgt Ion:240 Resp: 690895  
Ion Ratio Lower Upper  
240 100  
120 6.5 5.4 8.2  
236 26.4 20.6 31.0



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

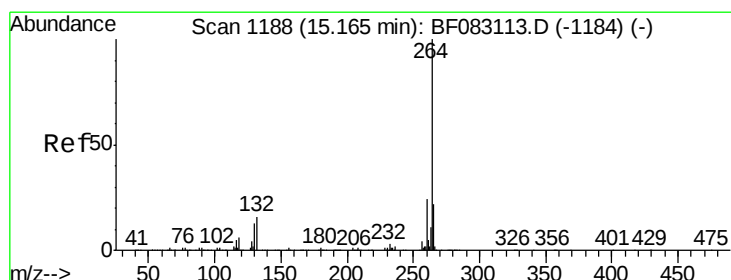
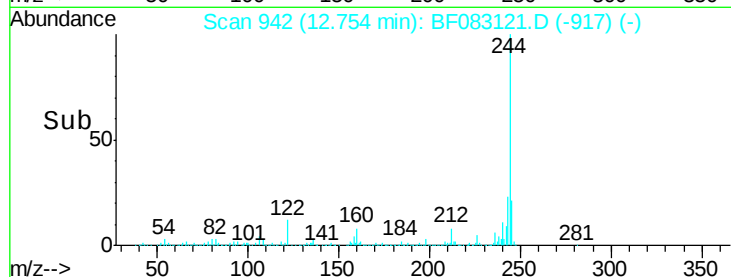
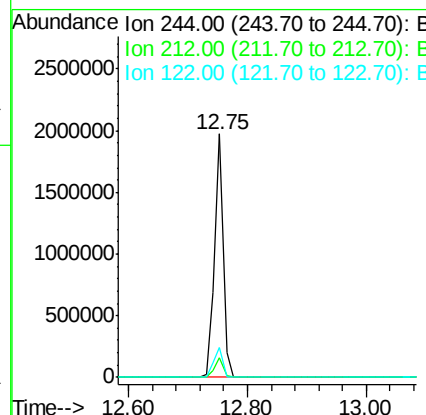
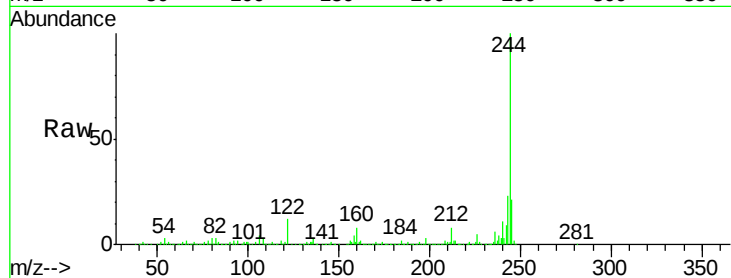




#78  
 Terphenyl-d14  
 Concen: 33.98 ng  
 RT: 12.75 min Scan# 942  
 Delta R.T. -0.01 min  
 Lab File: BF083121.D  
 Acq: 21 Nov 2015 20:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86744BL

Tgt Ion:244 Resp: 1993895  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 5.4 8.2  
 122 12.1 4.3 6.5#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.15 min Scan# 1152  
 Delta R.T. -0.01 min  
 Lab File: BF083121.D  
 Acq: 21 Nov 2015 20:02

Tgt Ion:264 Resp: 595114  
 Ion Ratio Lower Upper  
 264 100  
 260 24.2 19.1 28.7  
 265 22.0 18.2 27.4

