

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121515\  
 Data File : BF083803.D  
 Acq On : 15 Dec 2015 7:46  
 Operator : UM/IZ  
 Sample : G4779-16  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-47

Quant Time: Dec 15 10:36:39 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 14 01:30:12 2015  
 Response via : Initial Calibration

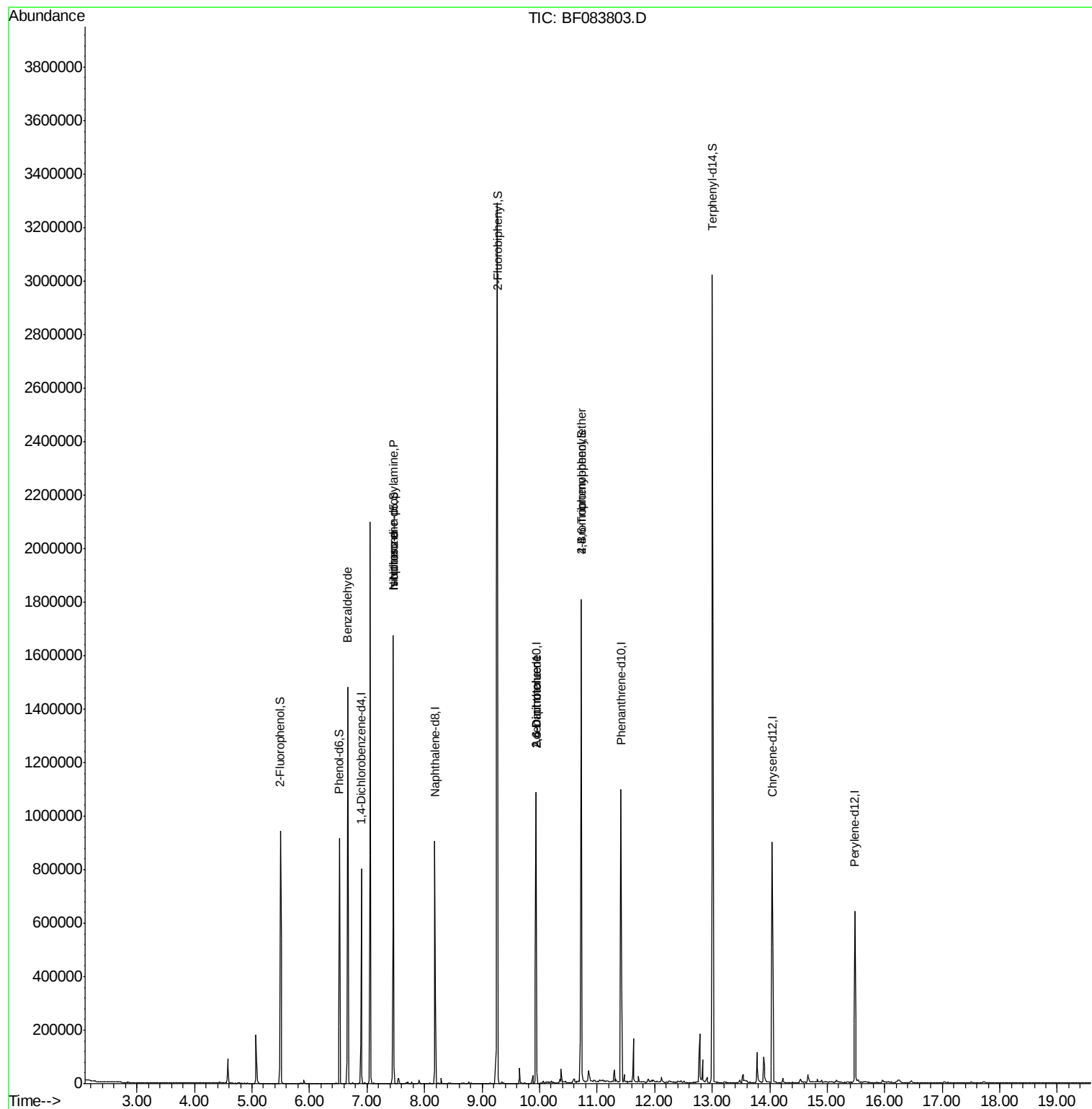
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.90  | 152  | 115538   | 20.00  | ng    | -0.02     |
| 21) Naphthalene-d8             | 8.18  | 136  | 431815   | 20.00  | ng    | -0.03     |
| 38) Acenaphthene-d10           | 9.94  | 164  | 226558   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10           | 11.41 | 188  | 403444   | 20.00  | ng    | -0.03     |
| 75) Chrysene-d12               | 14.04 | 240  | 363310   | 20.00  | ng    | -0.03     |
| 86) Perylene-d12               | 15.48 | 264  | 284369   | 20.00  | ng    | -0.02     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.49  | 112  | 333221   | 46.53  | ng    | -0.03     |
| 7) Phenol-d6                   | 6.52  | 99   | 305238   | 33.66  | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 7.46  | 82   | 562593   | 72.89  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol       | 10.73 | 330  | 322112   | 139.53 | ng    | -0.02     |
| 44) 2-Fluorobiphenyl           | 9.26  | 172  | 1213038  | 75.98  | ng    | -0.02     |
| 78) Terphenyl-d14              | 13.00 | 244  | 1282468  | 75.93  | ng    | -0.02     |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.66  | 77   | 13310    | 2.73   | ng    | Qvalue 93 |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 76612    | 13.80  | ng    | # 71      |
| 25) Isophorone                 | 7.46  | 82   | 557087   | 36.79  | ng    | # 69      |
| 50) 2,6-Dinitrotoluene         | 9.94  | 165  | 29629    | 7.90   | ng    | # 18      |
| 56) 2,4-Dinitrotoluene         | 9.94  | 165  | 29630    | 6.05   | ng    | # 13      |
| 66) 4-Bromophenyl-phenylether  | 10.73 | 248  | 21855    | 4.84   | ng    | # 1       |

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

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QLast Update : Mon Dec 14 01:30:12 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. -0.02 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

Instrument :

BNA\_F

ClientSampleId :

W-47

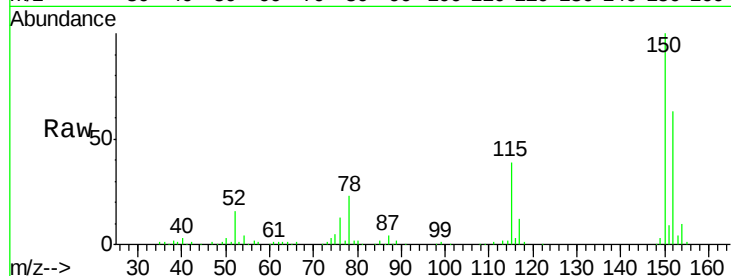
Tot Ion:152 Resp: 11538

Ion Ratio Lower Upper

152 100

150 158.7 126.5 189.7

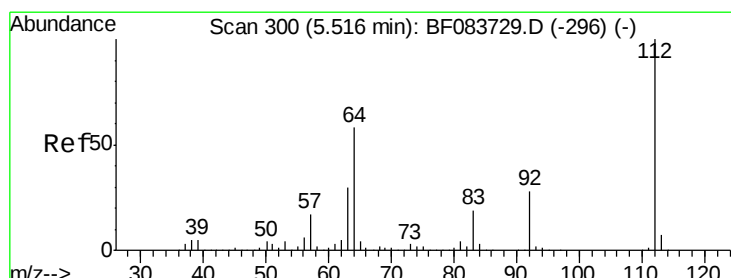
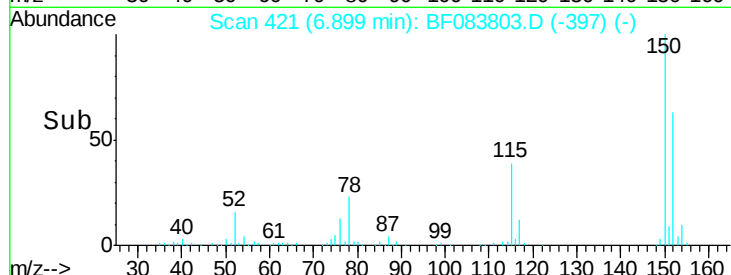
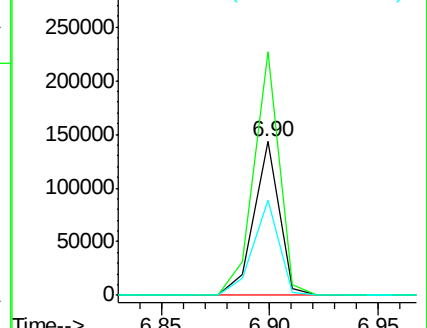
115 62.2 52.3 78.5



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: 46.53 ng

RT: 5.49 min Scan# 298

Delta R.T. -0.03 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

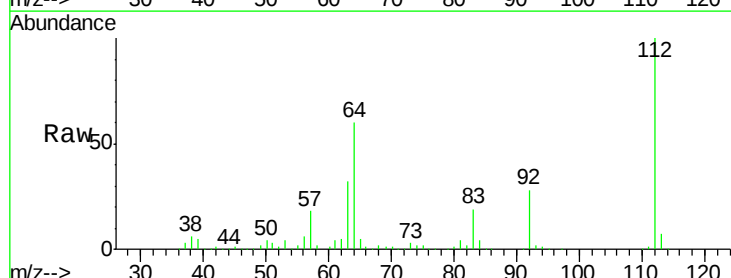
Tgt Ion:112 Resp: 333221

Ion Ratio Lower Upper

112 100

64 60.1 50.5 75.7

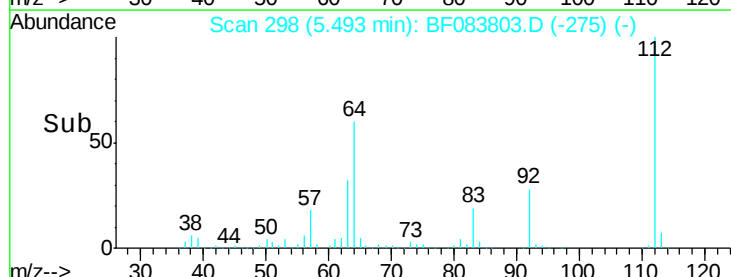
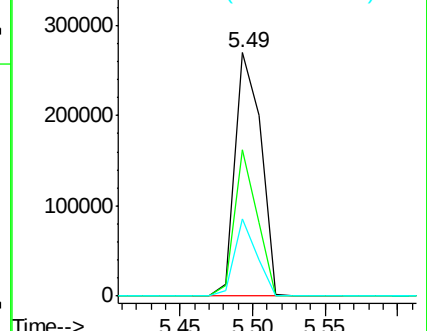
63 31.5 25.8 38.6

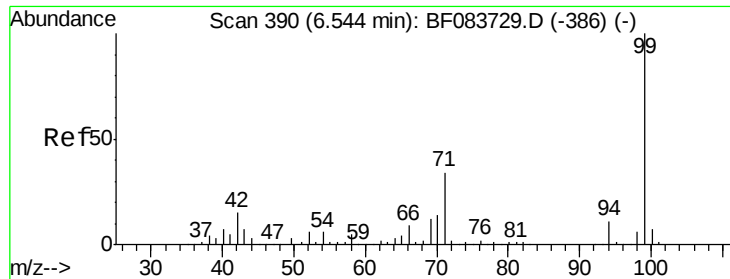


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 33.66 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

Instrument :

BNA\_F

ClientSampleId :

W-47

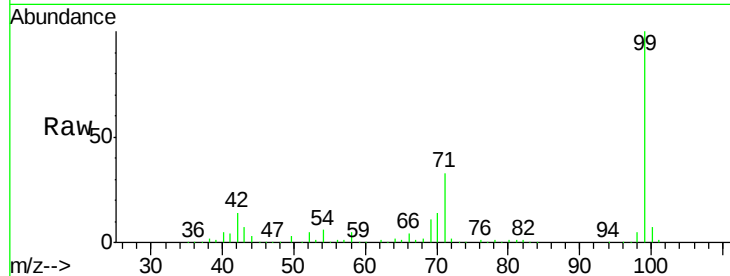
Tot Ion: 99 Resp: 305238

Ion Ratio Lower Upper

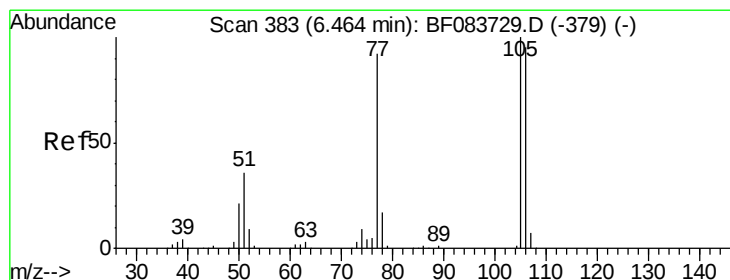
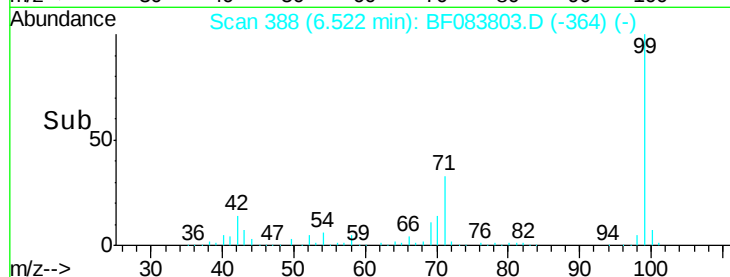
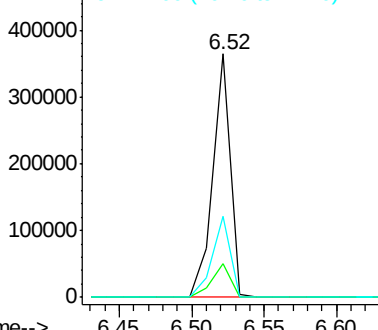
99 100

42 13.8 17.3 25.9#

71 33.2 26.6 40.0



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



#9

Benzaldehyde

Concen: 2.73 ng

RT: 6.66 min Scan# 400

Delta R.T. 0.19 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

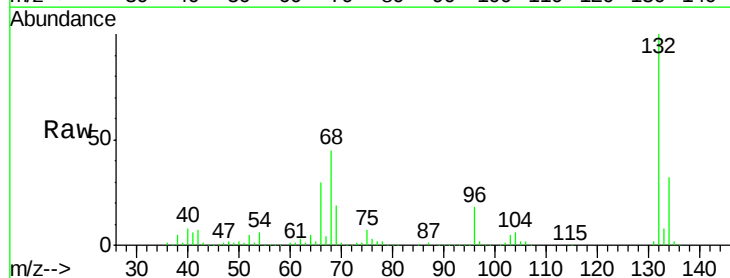
Tgt Ion: 77 Resp: 13310

Ion Ratio Lower Upper

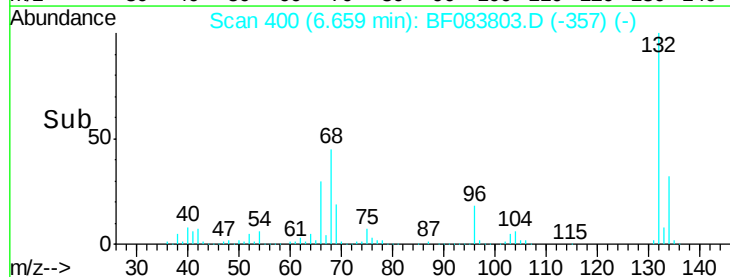
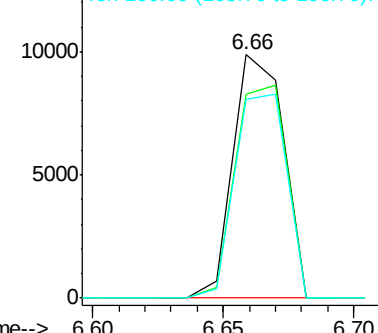
77 100

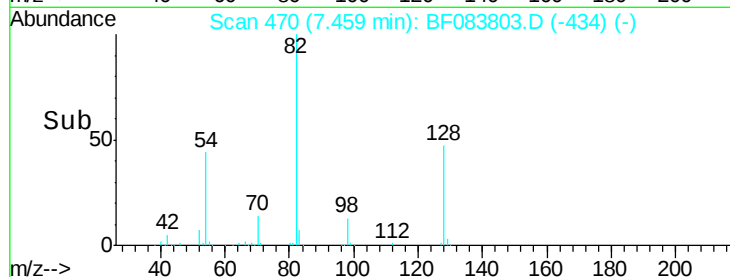
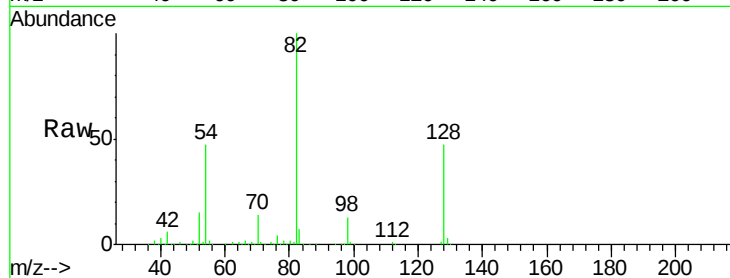
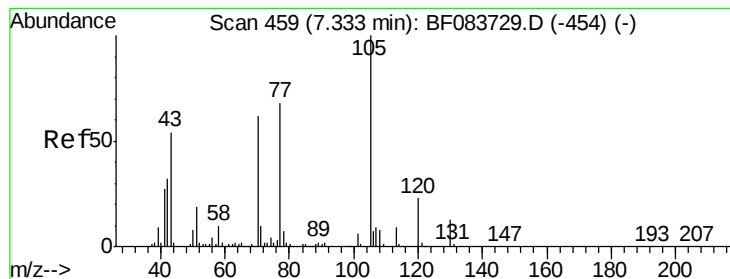
105 83.7 71.8 111.8

106 81.5 66.8 106.8



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 13.80 ng

RT: 7.46 min Scan# 470

Delta R.T. 0.11 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

Instrument :

BNA\_F

ClientSampleId :

W-47

Tot Ion: 70 Resp: 76612

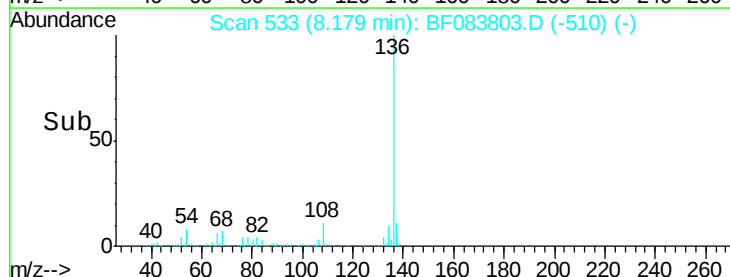
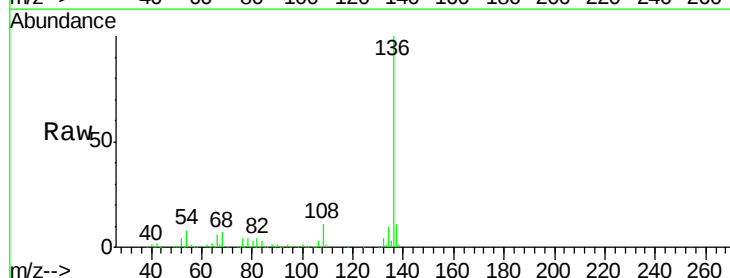
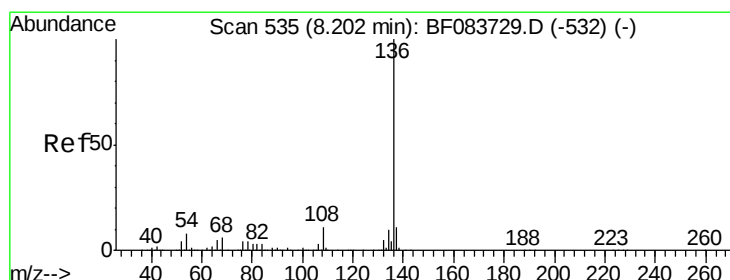
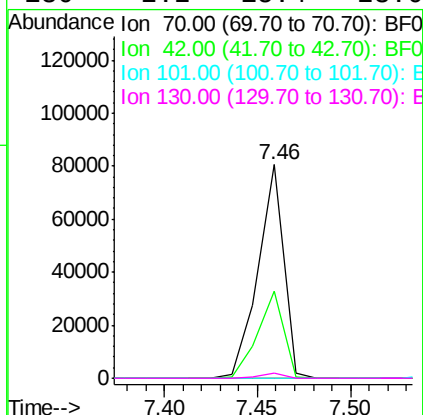
Ion Ratio Lower Upper

70 100

42 40.9 49.2 73.8#

101 0.0 7.1 10.7#

130 2.2 15.4 23.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. -0.03 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

Tgt Ion: 136 Resp: 431815

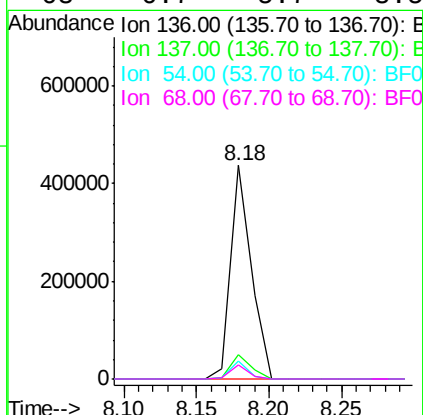
Ion Ratio Lower Upper

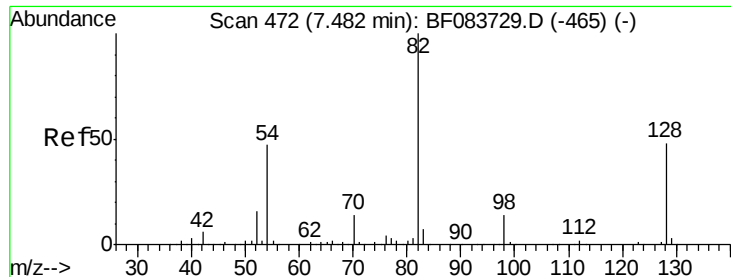
136 100

137 11.3 8.7 13.1

54 8.3 7.8 11.6

68 6.7 5.7 8.5

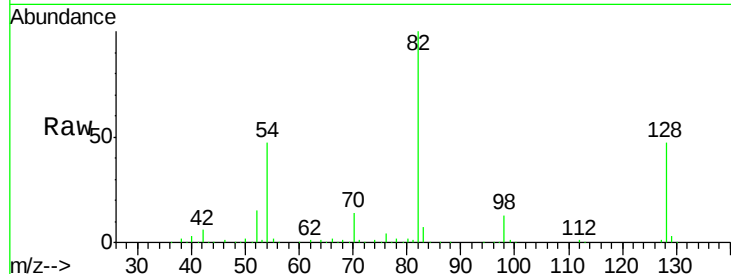




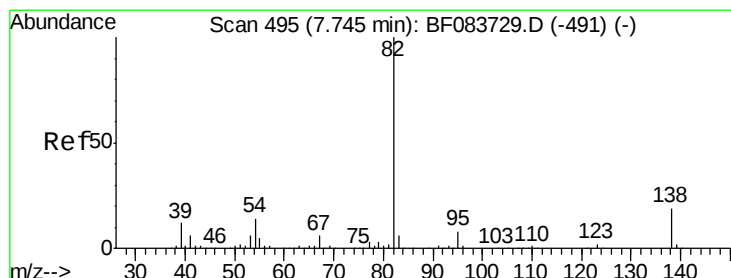
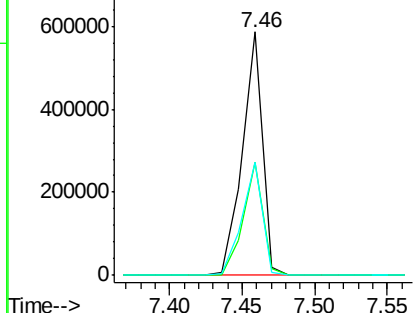
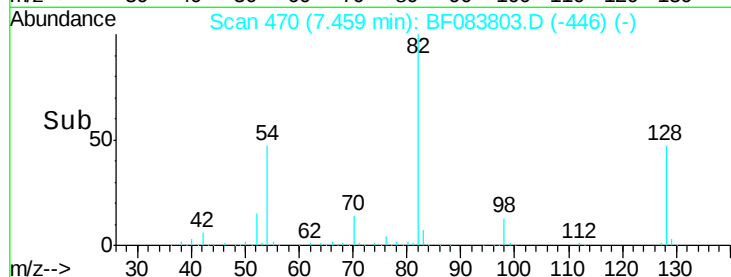
#23  
 Nitrobenzene-d5  
 Concen: 72.89 ng  
 RT: 7.46 min Scan# 470  
 Delta R.T. -0.02 min  
 Lab File: BF083803.D  
 Acq: 15 Dec 2015 7:46

Instrument :  
 BNA\_F  
 ClientSampled :  
 W-47

| Tot Ion   | 82   | Resp  | 562593 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 46.6 | 30.7  | 46.1#  |
| 54        | 46.7 | 42.5  | 63.7   |

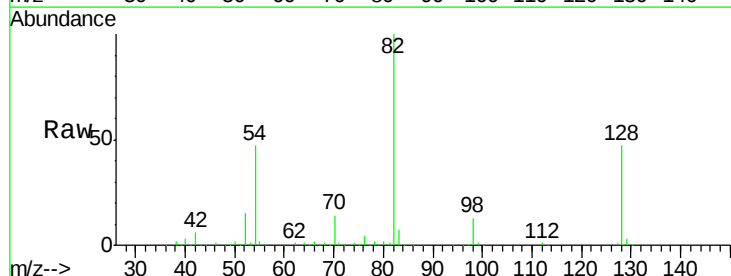


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

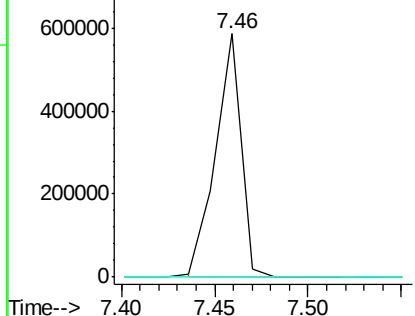
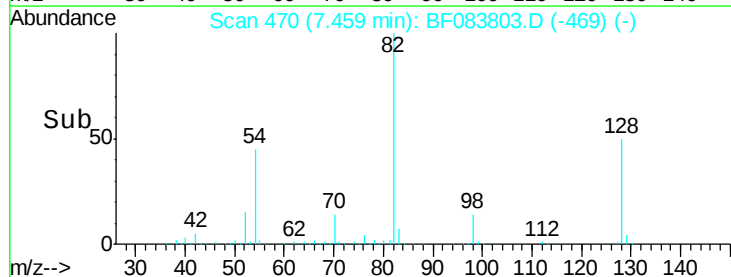


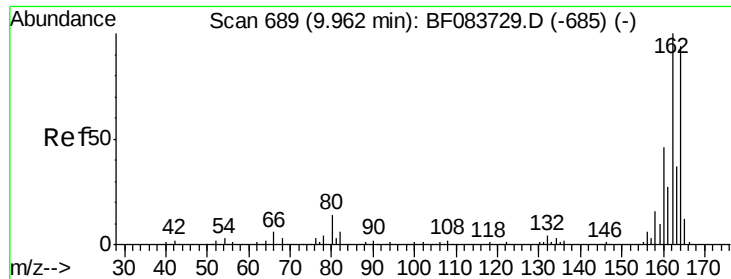
#25  
 Isophorone  
 Concen: 36.79 ng  
 RT: 7.46 min Scan# 470  
 Delta R.T. -0.29 min  
 Lab File: BF083803.D  
 Acq: 15 Dec 2015 7:46

| Tgt Ion   | 82  | Resp  | 557087 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 95        | 0.0 | 5.0   | 7.4#   |
| 138       | 0.0 | 12.1  | 18.1#  |



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

Instrument :

BNA\_F

ClientSampleId :

W-47

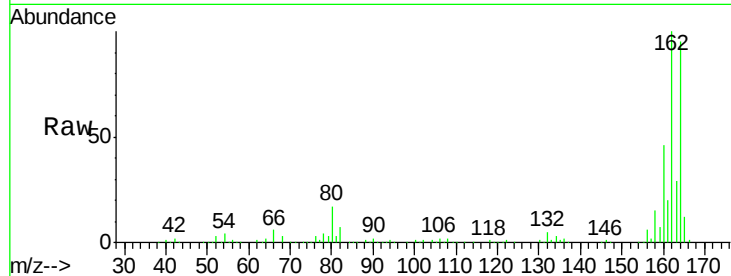
Tot Ion:164 Resp: 226558

Ion Ratio Lower Upper

164 100

162 105.6 78.8 118.2

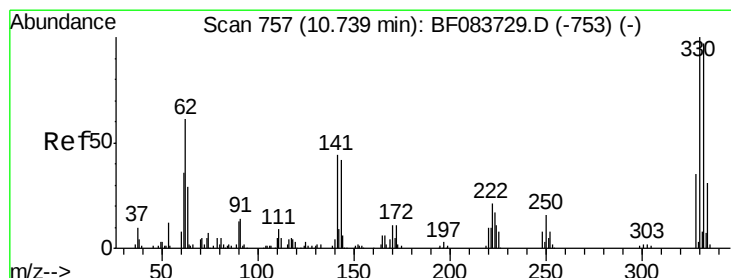
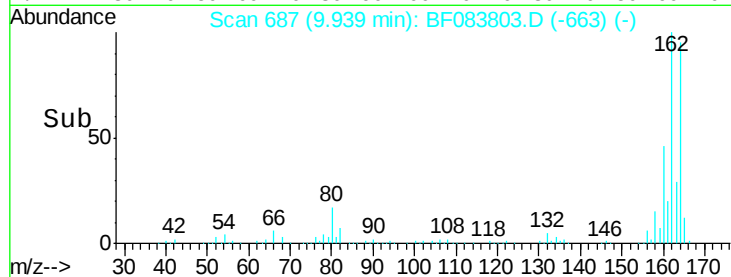
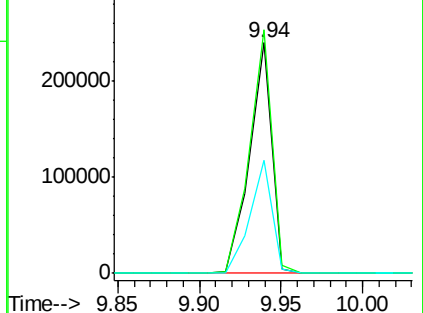
160 48.9 33.4 50.2



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: 139.53 ng

RT: 10.73 min Scan# 756

Delta R.T. -0.02 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

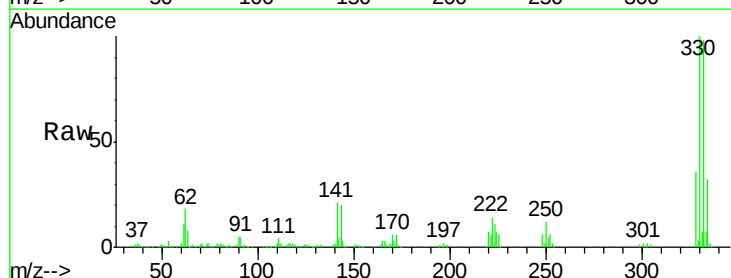
Tgt Ion:330 Resp: 322112

Ion Ratio Lower Upper

330 100

332 97.3 0.0 0.0#

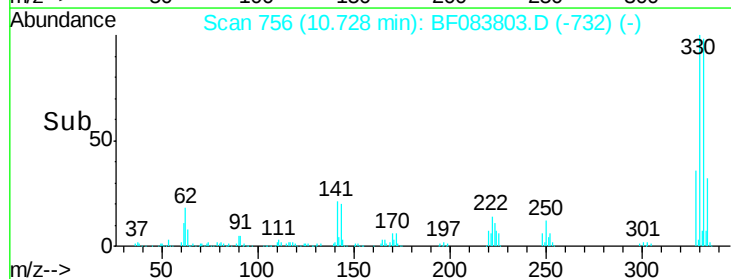
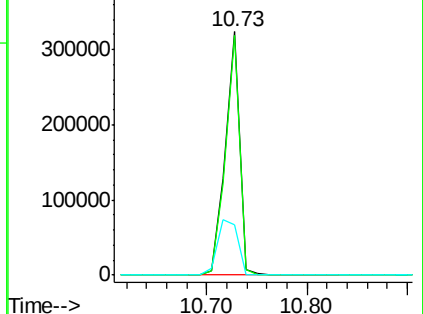
141 32.2 0.0 0.0#

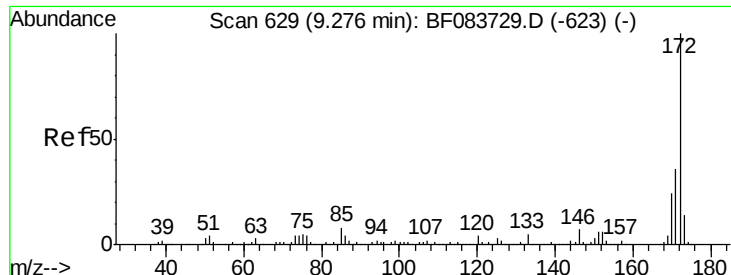


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



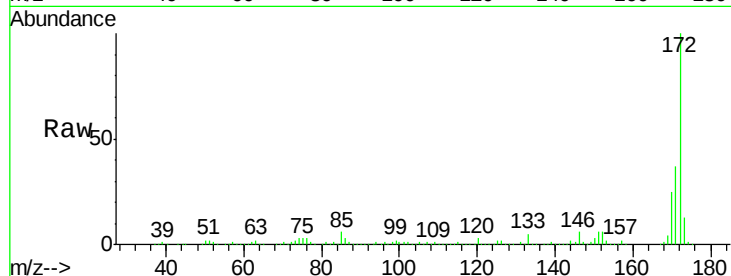


#44  
 2-Fluorobiphenyl  
 Concen: 75.98 ng  
 RT: 9.26 min Scan# 628  
 Delta R.T. -0.02 min  
 Lab File: BF083803.D  
 Acq: 15 Dec 2015 7:46

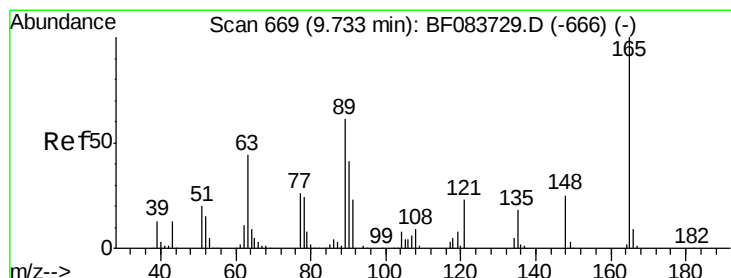
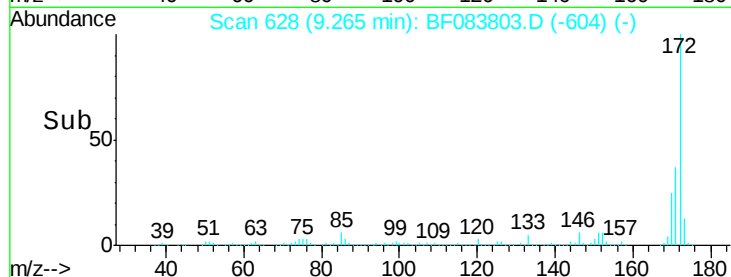
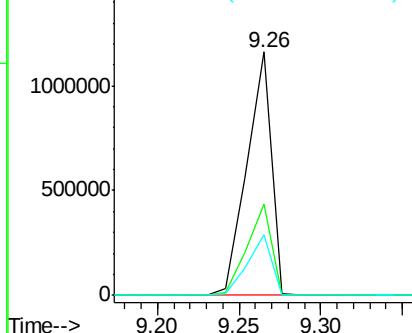
Instrument :  
 BNA\_F  
 ClientSampleId :  
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Tot Ion:172 Resp: 1213038  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 37.3  | 28.6  | 42.8  |
| 170 | 24.7  | 19.4  | 29.0  |



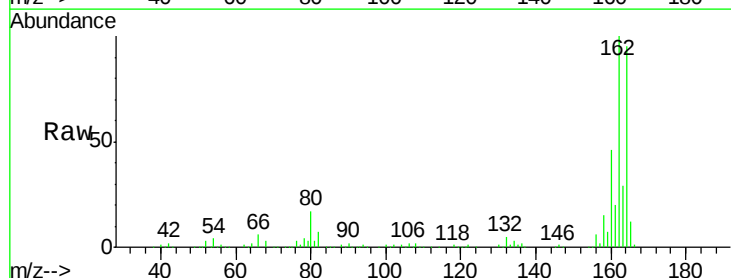
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E



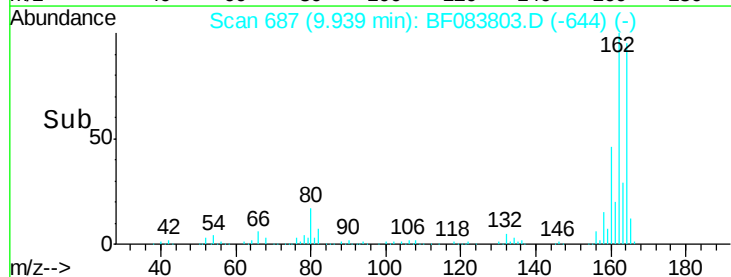
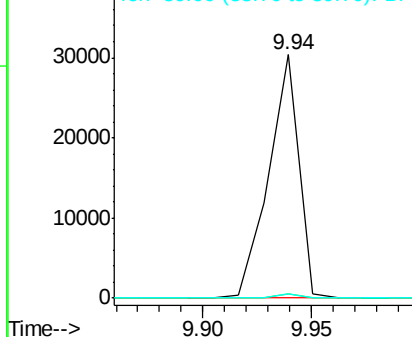
#50  
 2,6-Dinitrotoluene  
 Concen: 7.90 ng  
 RT: 9.94 min Scan# 687  
 Delta R.T. 0.20 min  
 Lab File: BF083803.D  
 Acq: 15 Dec 2015 7:46

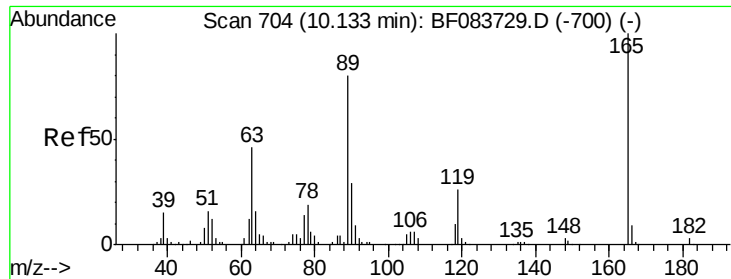
Tgt Ion:165 Resp: 29629  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.5   | 56.9  | 85.3# |
| 89  | 1.5   | 52.1  | 78.1# |



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: 6.05 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.20 min

Lab File: BF083803.D

Acq: 15 Dec 2015 7:46

Instrument :

BNA\_F

ClientSampleId :

W-47

Tot Ion:165 Resp: 29630

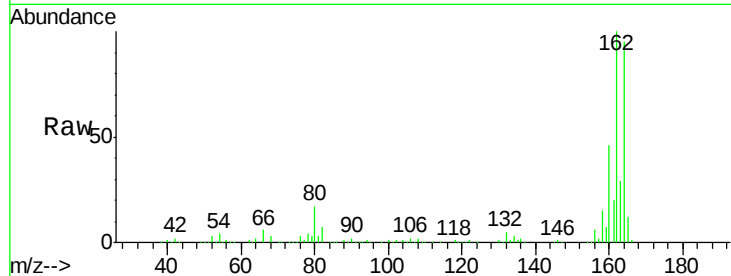
Ion Ratio Lower Upper

165 100

63 1.5 51.4 77.2#

89 1.5 72.6 108.8#

182 0.0 1.4 2.0#

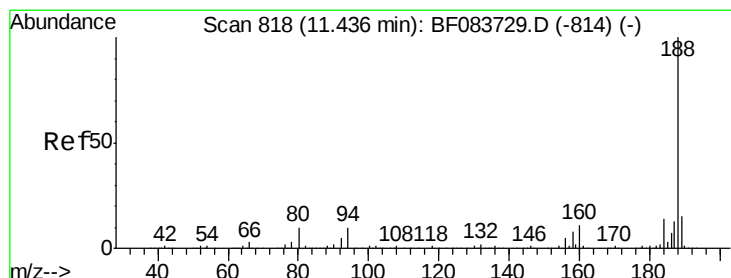
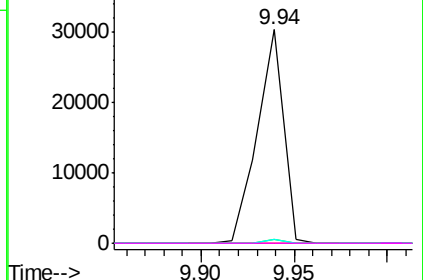
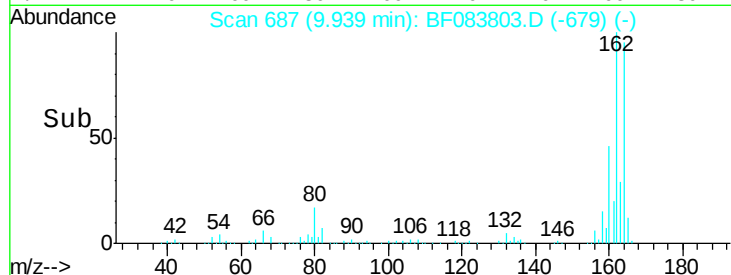


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.41 min Scan# 816

Delta R.T. -0.03 min

Lab File: BF083803.D

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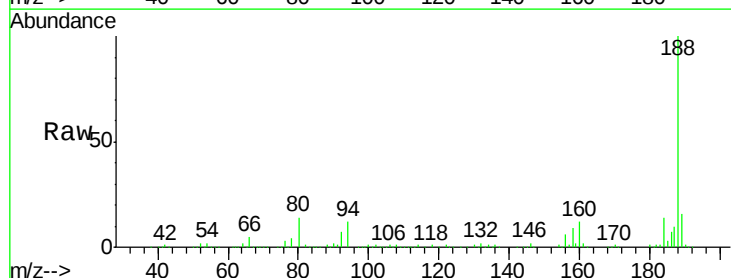
Tgt Ion:188 Resp: 403444

Ion Ratio Lower Upper

188 100

94 12.3 9.4 14.2

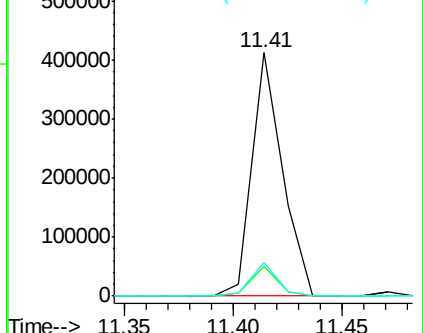
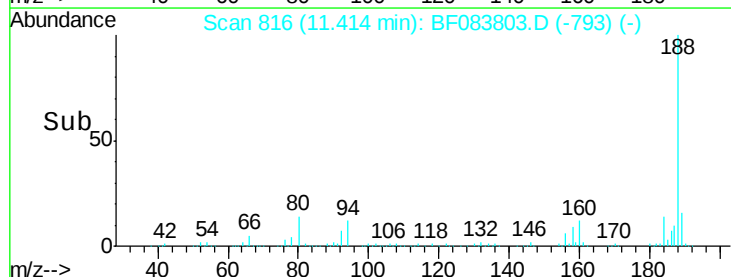
80 13.6 10.6 16.0

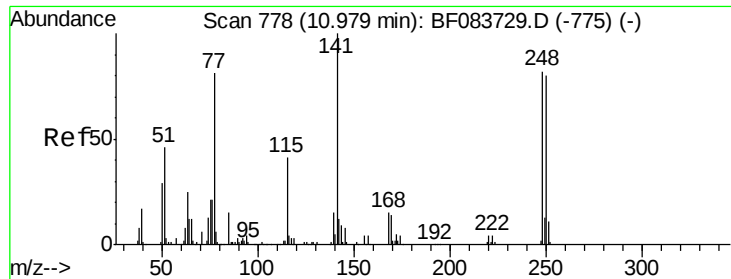


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

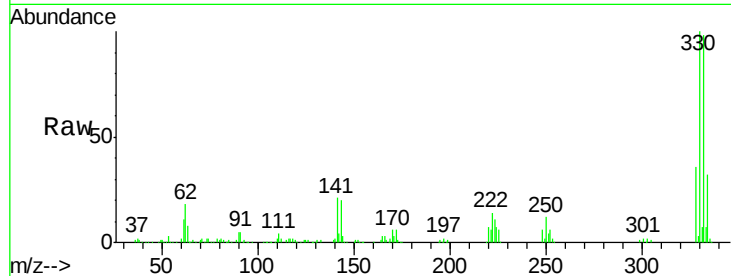




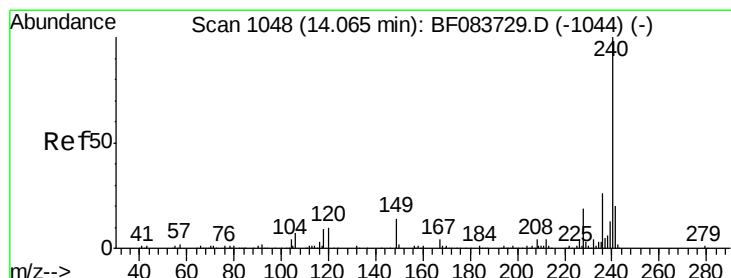
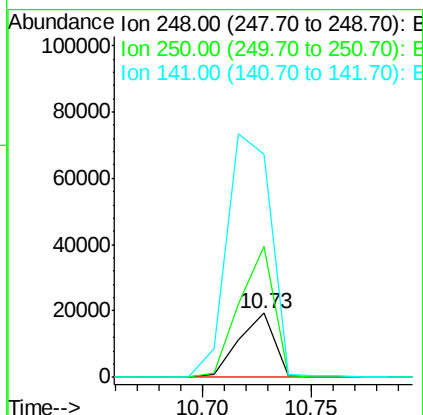
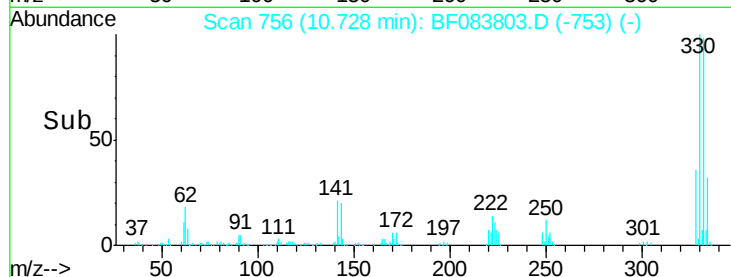
#66  
4-Bromophenyl-phenylether  
Concen: 4.84 ng  
RT: 10.73 min Scan# 756  
Delta R.T. -0.26 min  
Lab File: BF083803.D  
Acq: 15 Dec 2015 7:46

Instrument :  
BNA\_F  
ClientSampleId :  
W-47

Tot Ion:248 Resp: 21855  
Ion Ratio Lower Upper  
248 100  
250 205.2 79.2 118.8#  
141 349.4 58.2 87.4#

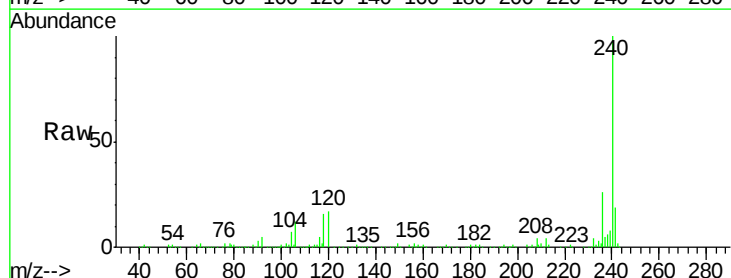


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

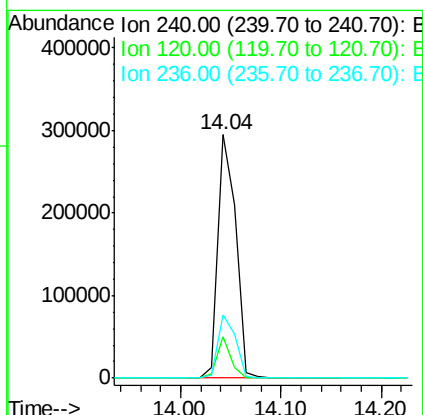
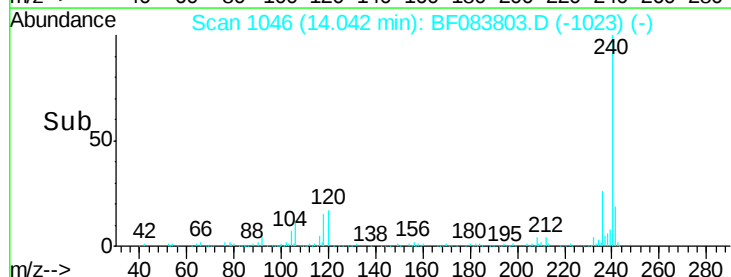


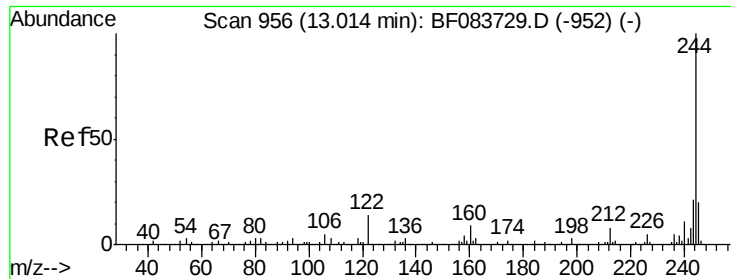
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.04 min Scan# 1046  
Delta R.T. -0.03 min  
Lab File: BF083803.D  
Acq: 15 Dec 2015 7:46

Tgt Ion:240 Resp: 363310  
Ion Ratio Lower Upper  
240 100  
120 17.2 8.1 12.1#  
236 26.1 20.8 31.2



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

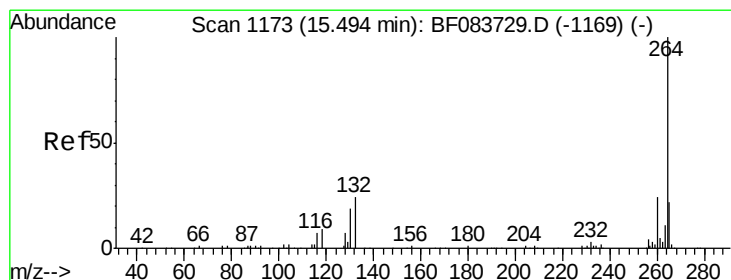
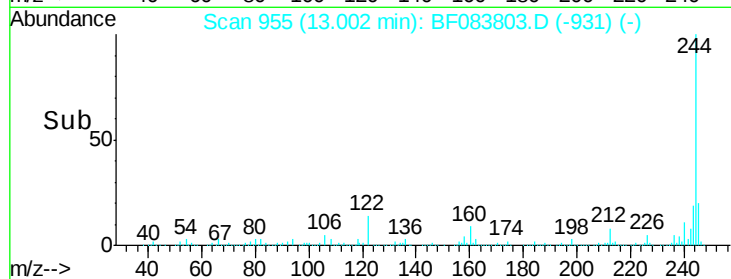
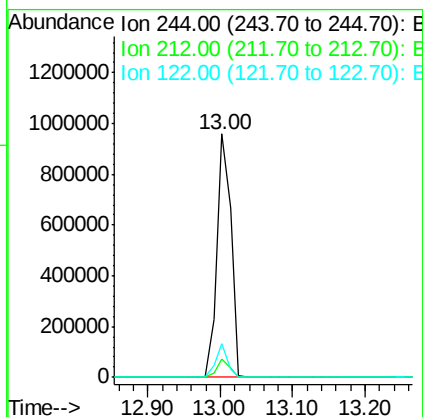
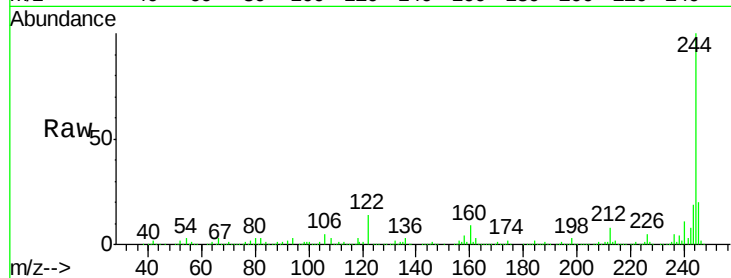




#78  
 Terphenyl-d14  
 Concen: 75.93 ng  
 RT: 13.00 min Scan# 955  
 Delta R.T. -0.02 min  
 Lab File: BF083803.D  
 Acq: 15 Dec 2015 7:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-47

Tot Ion:244 Resp: 1282468  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 6.1 9.1  
 122 13.9 11.0 16.6



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.48 min Scan# 1172  
 Delta R.T. -0.02 min  
 Lab File: BF083803.D  
 Acq: 15 Dec 2015 7:46

Tgt Ion:264 Resp: 284369  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.4 29.0  
 265 21.9 17.8 26.6

