

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\  
 Data File : BF083977.D  
 Acq On : 20 Dec 2015 4:03  
 Operator : UM/SJ  
 Sample : G4838-02  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC121515-LIQUID-POPH

Quant Time: Dec 20 07:19:30 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 18 14:23:22 2015  
 Response via : Initial Calibration

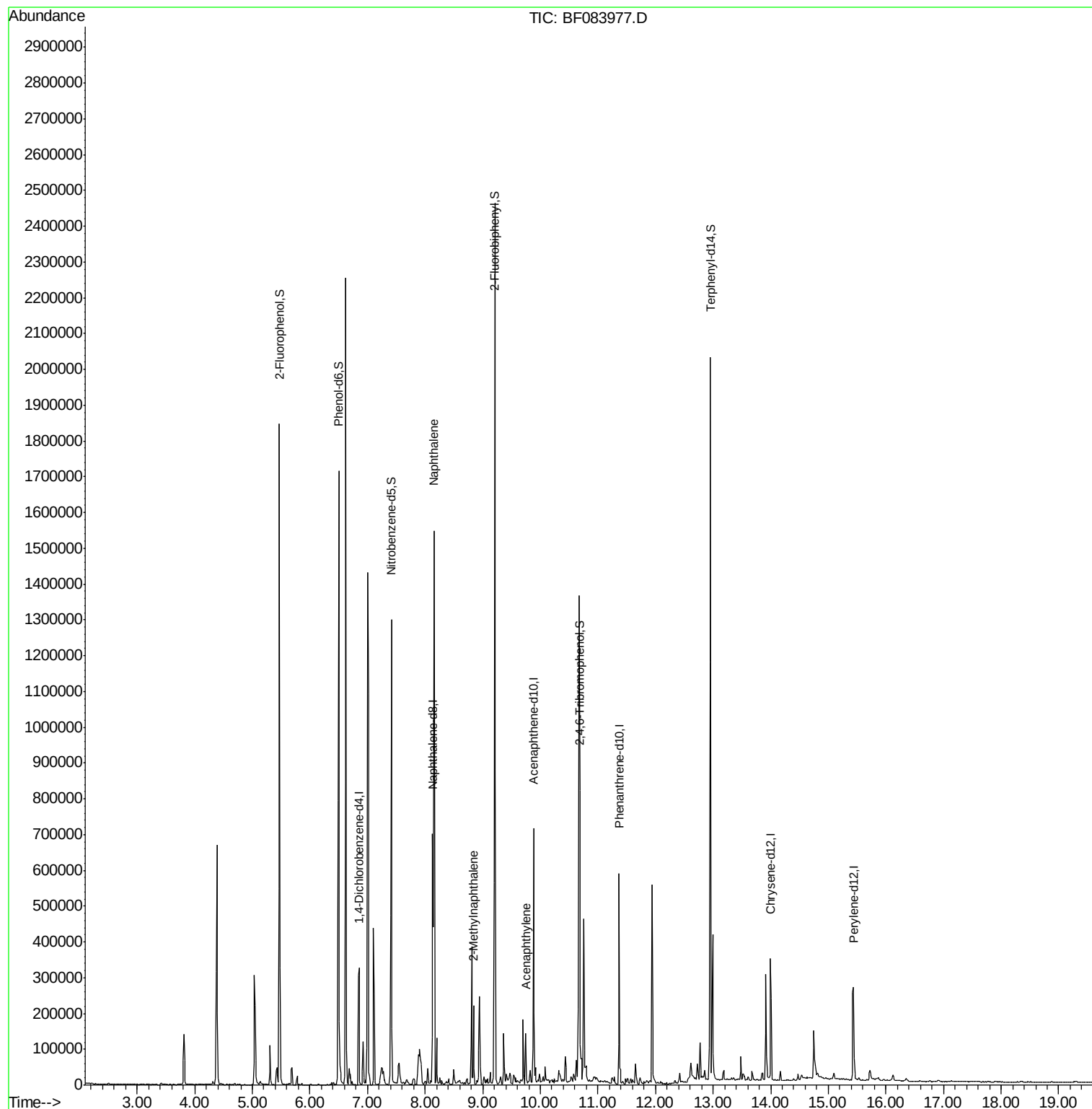
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 74285    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.13  | 136  | 313029   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.88  | 164  | 140898   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 11.37 | 188  | 200605   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 14.00 | 240  | 142847   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 15.44 | 264  | 143724   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.47  | 112  | 558296   | 117.62 | ng    | -0.01    |
| 7) Phenol-d6                | 6.50  | 99   | 668174   | 115.00 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 461293   | 84.10  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.68 | 330  | 229416   | 147.80 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.21  | 172  | 924804   | 93.66  | ng    | -0.03    |
| 78) Terphenyl-d14           | 12.96 | 244  | 741706   | 124.29 | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.16  | 128  | 651112   | 41.10  | ng    | 100      |
| 37) 2-Methylnaphthalene     | 8.84  | 142  | 56678    | 5.21   | ng    | 99       |
| 48) Acenaphthylene          | 9.74  | 152  | 46477    | 2.83   | ng    | 100      |

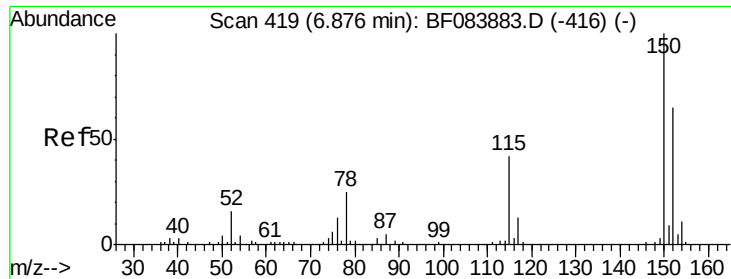
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\  
Data File : BF083977.D  
Acq On : 20 Dec 2015 4:03  
Operator : UM/SJ  
Sample : G4838-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC121515-LIQUID-POPH

Quant Time: Dec 20 07:19:30 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 18 14:23:22 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 417

Delta R.T. -0.02 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPH

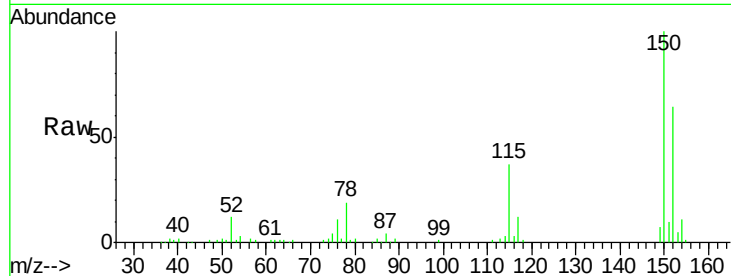
Tot Ion:152 Resp: 74285

Ion Ratio Lower Upper

152 100

150 155.8 123.0 184.4

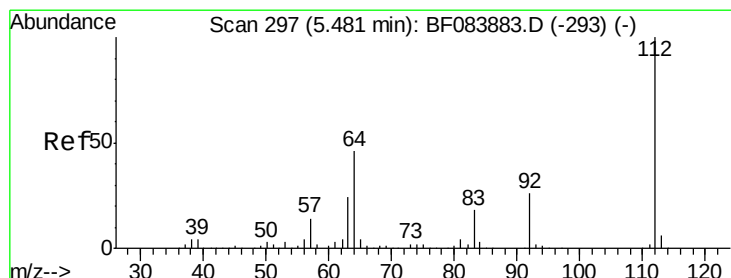
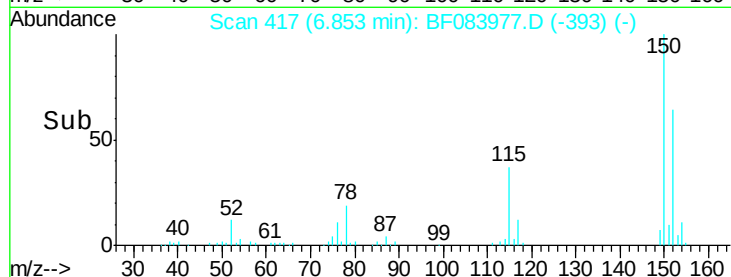
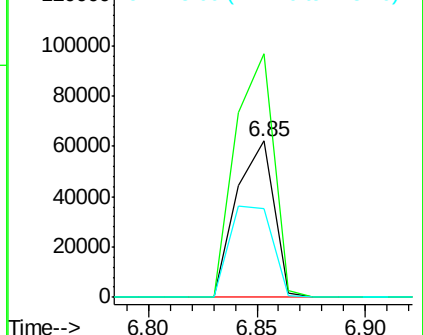
115 57.0 51.4 77.2



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: 117.62 ng

RT: 5.47 min Scan# 296

Delta R.T. -0.01 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

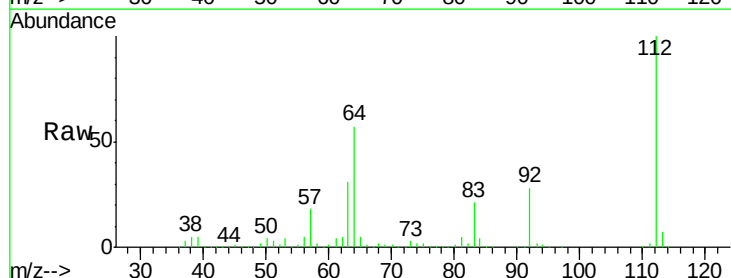
Tgt Ion:112 Resp: 558296

Ion Ratio Lower Upper

112 100

64 56.8 36.6 55.0#

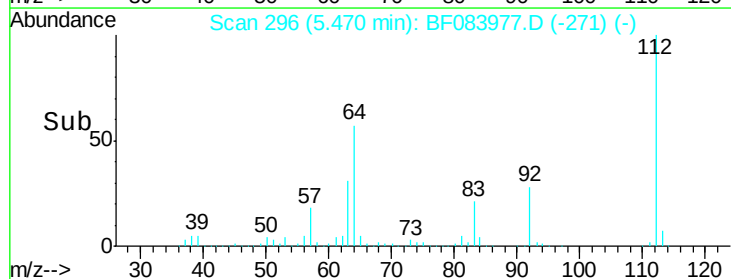
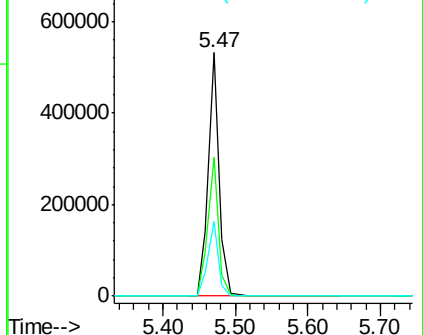
63 30.8 19.4 29.0#

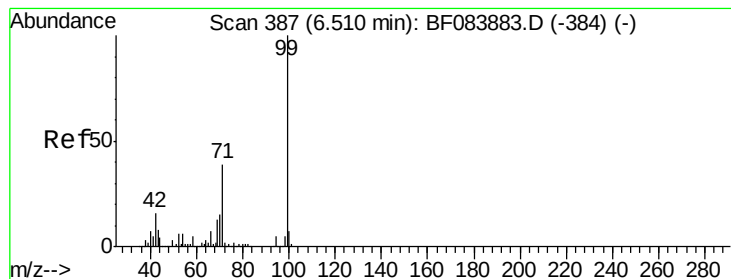


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 115.00 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPH

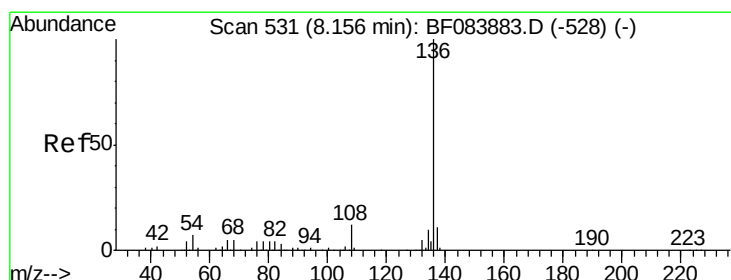
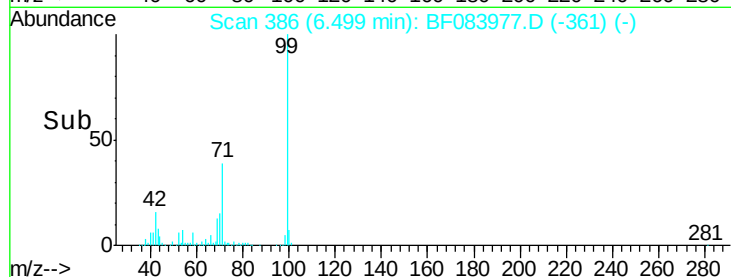
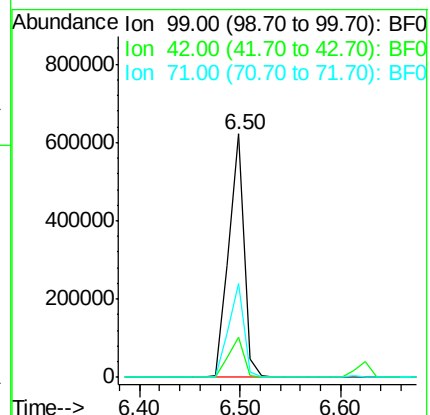
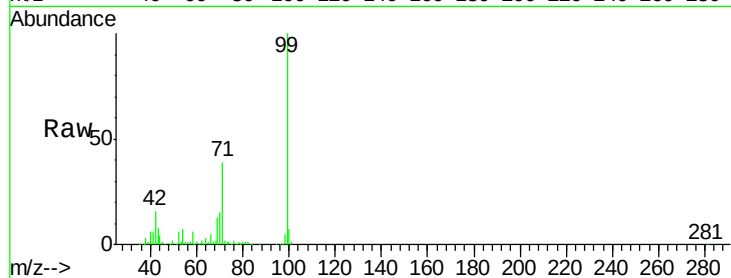
Tot Ion: 99 Resp: 668174

Ion Ratio Lower Upper

99 100

42 16.3 12.8 19.2

71 38.6 30.9 46.3



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 529

Delta R.T. -0.02 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

Tgt Ion: 136 Resp: 313029

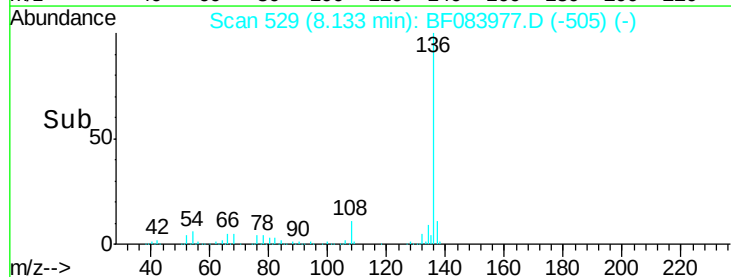
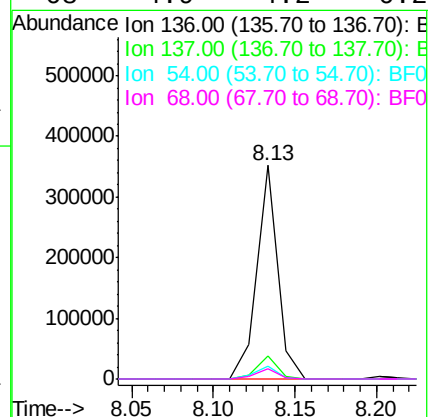
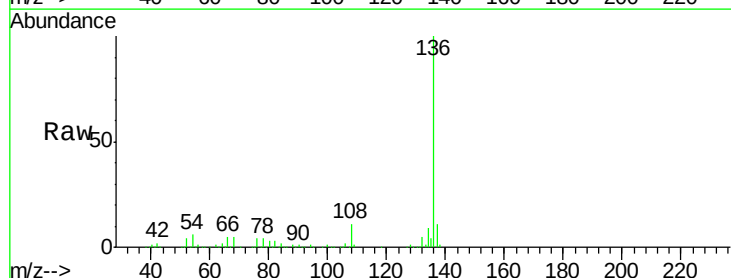
Ion Ratio Lower Upper

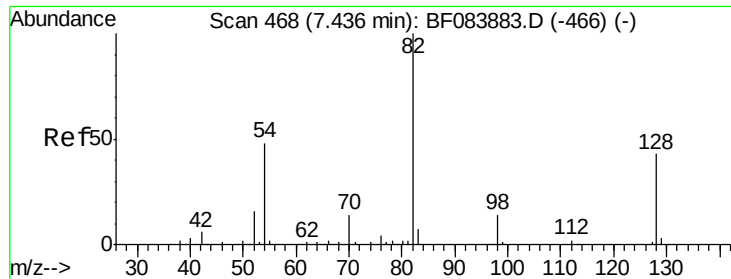
136 100

137 10.8 8.7 13.1

54 6.3 5.8 8.8

68 4.9 4.2 6.2

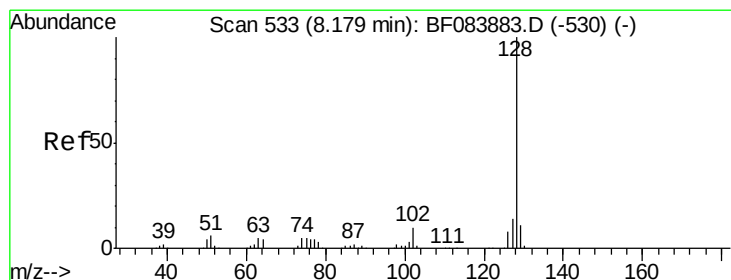
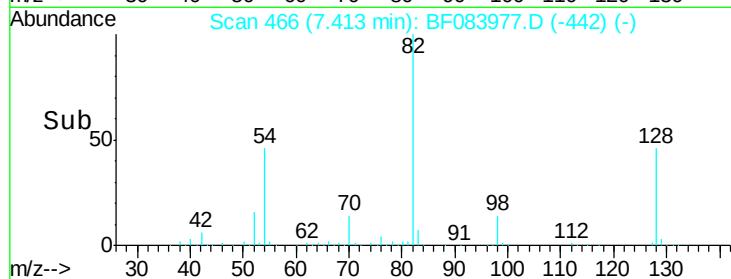
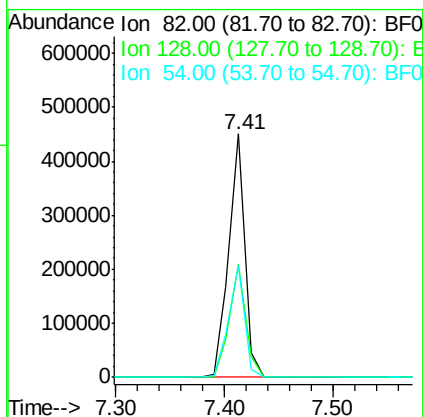
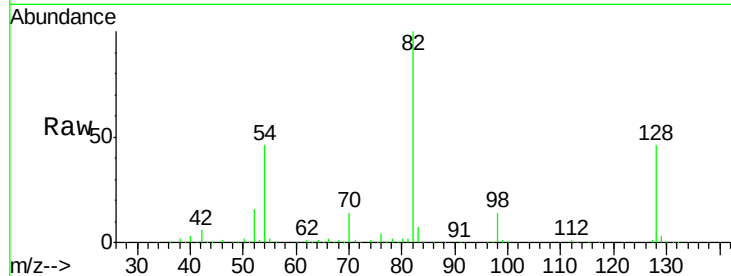




#23  
 Nitrobenzene-d5  
 Concen: 84.10 ng  
 RT: 7.41 min Scan# 466  
 Delta R.T. -0.02 min  
 Lab File: BF083977.D  
 Acq: 20 Dec 2015 4:03

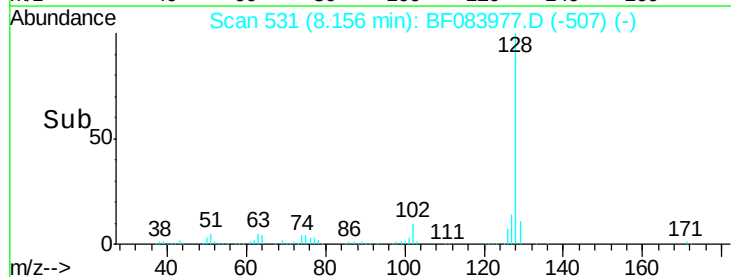
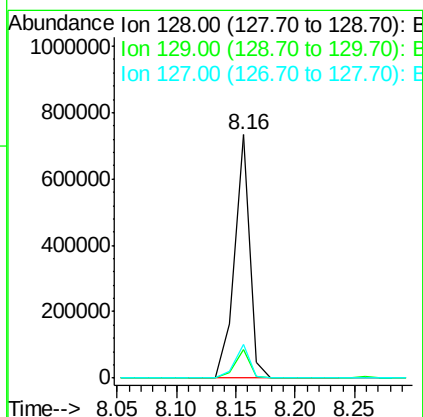
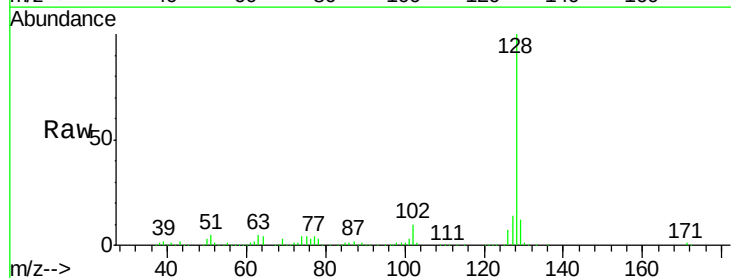
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC121515-LIQUID-POPH

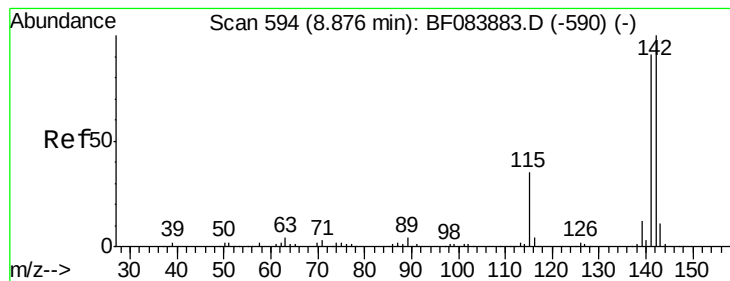
Tot Ion: 82 Resp: 461293  
 Ion Ratio Lower Upper  
 82 100  
 128 46.2 34.6 51.8  
 54 45.7 38.4 57.6



#31  
 Naphthalene  
 Concen: 41.10 ng  
 RT: 8.16 min Scan# 531  
 Delta R.T. -0.02 min  
 Lab File: BF083977.D  
 Acq: 20 Dec 2015 4:03

Tgt Ion: 128 Resp: 651112  
 Ion Ratio Lower Upper  
 128 100  
 129 11.6 9.1 13.7  
 127 13.8 11.1 16.7





#37

2-Methylnaphthalene

Concen: 5.21 ng

RT: 8.84 min Scan# 591

Delta R.T. -0.03 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPH

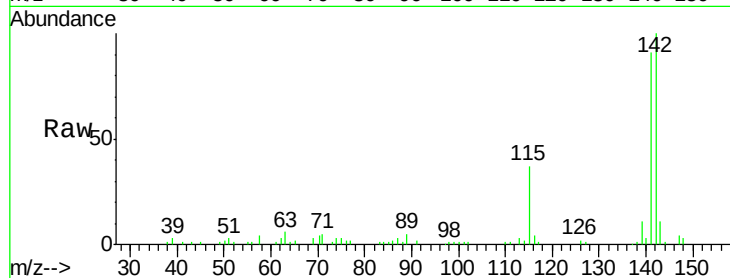
Tot Ion:142 Resp: 56678

Ion Ratio Lower Upper

142 100

141 90.7 72.4 108.6

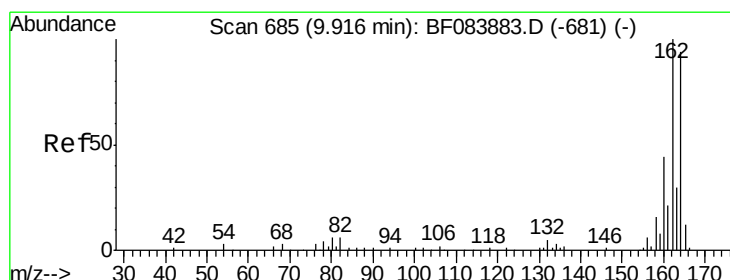
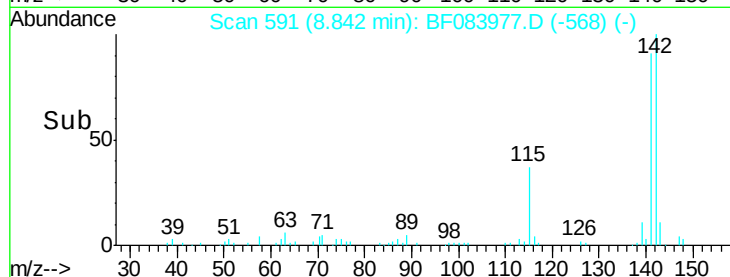
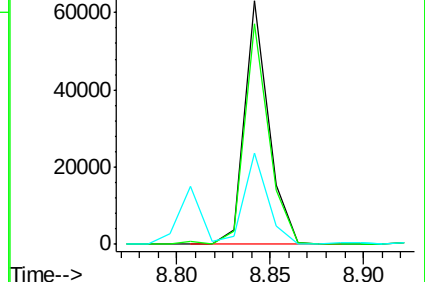
115 37.3 27.9 41.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.03 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

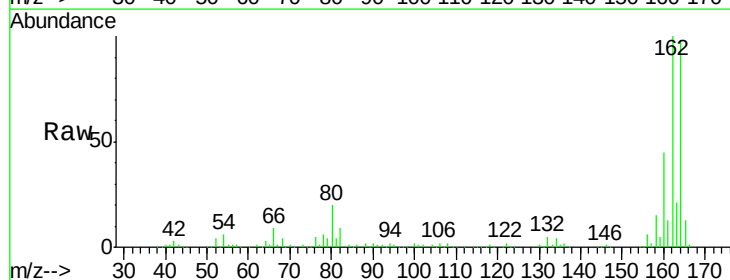
Tgt Ion:164 Resp: 140898

Ion Ratio Lower Upper

164 100

162 101.7 85.1 127.7

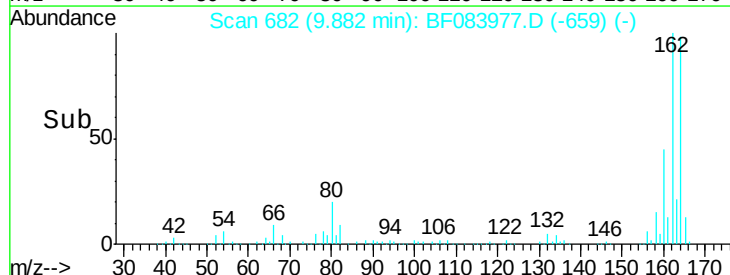
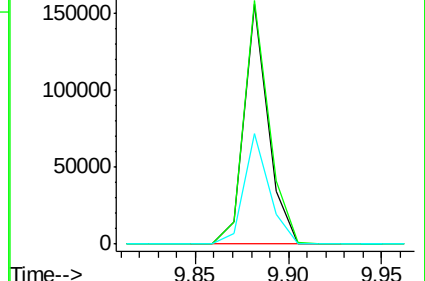
160 46.1 37.5 56.3

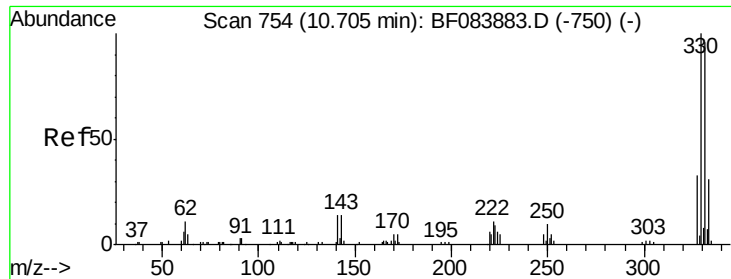


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

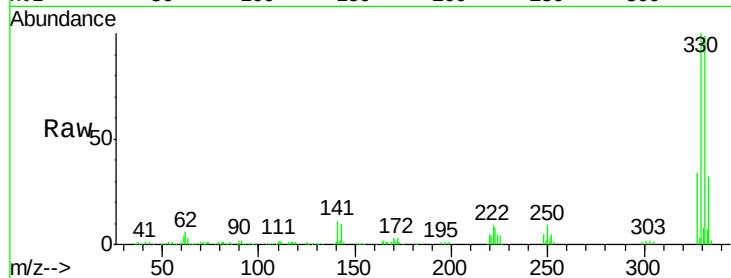




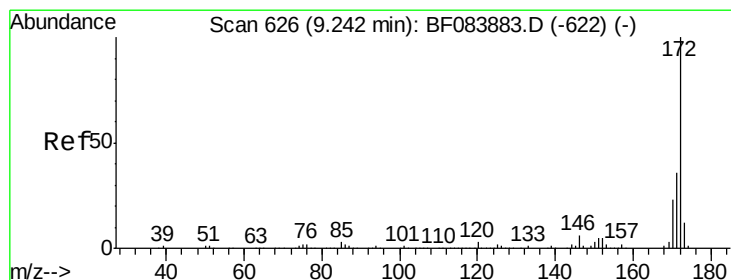
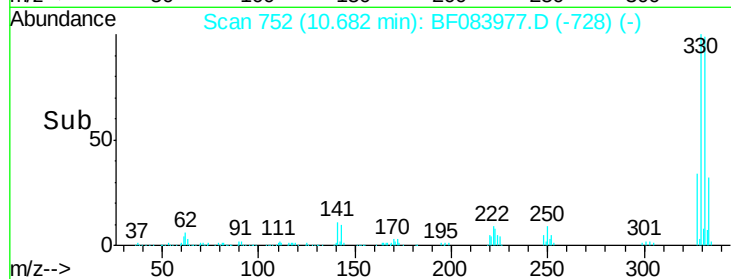
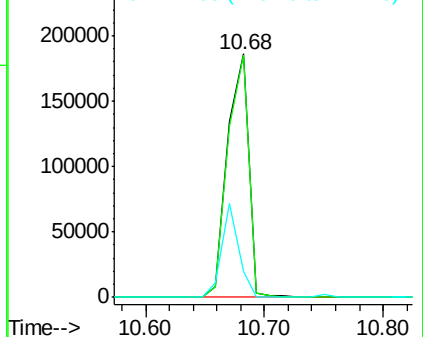
#41  
 2,4,6-Tribromophenol  
 Concen: 147.80 ng  
 RT: 10.68 min Scan# 752  
 Delta R.T. -0.02 min  
 Lab File: BF083977.D  
 Acq: 20 Dec 2015 4:03

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC121515-LIQUID-POPH

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.5  | 76.6  | 114.8 |
| 141     | 31.3  | 27.8  | 41.6  |

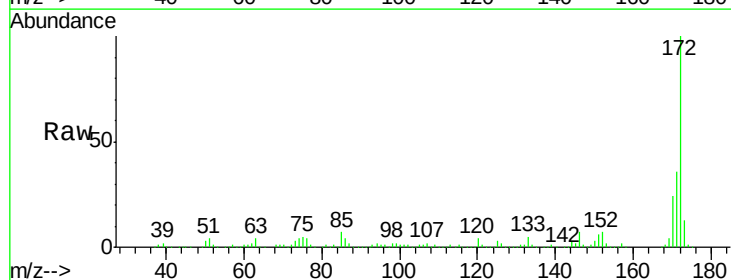


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

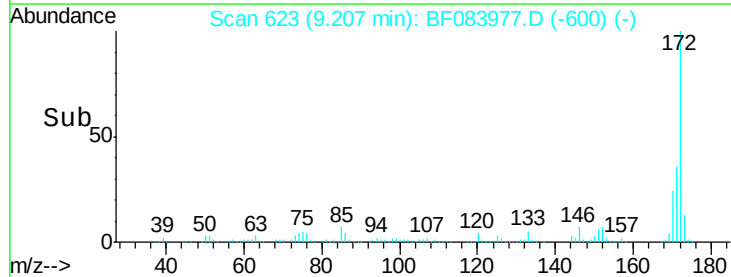
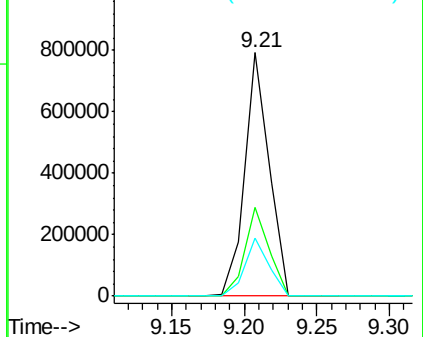


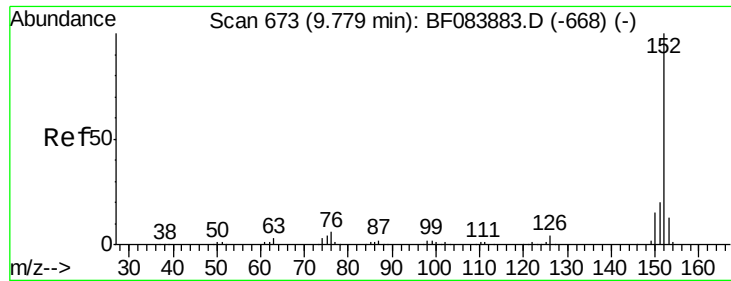
#44  
 2-Fluorobiphenyl  
 Concen: 93.66 ng  
 RT: 9.21 min Scan# 623  
 Delta R.T. -0.03 min  
 Lab File: BF083977.D  
 Acq: 20 Dec 2015 4:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 28.9  | 43.3  |
| 170     | 24.0  | 18.6  | 27.8  |



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





#48

Acenaphthylene

Concen: 2.83 ng

RT: 9.74 min Scan# 670

Delta R.T. -0.03 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPH

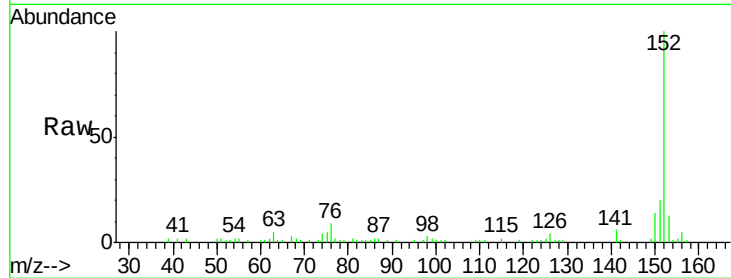
Tot Ion:152 Resp: 46477

Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

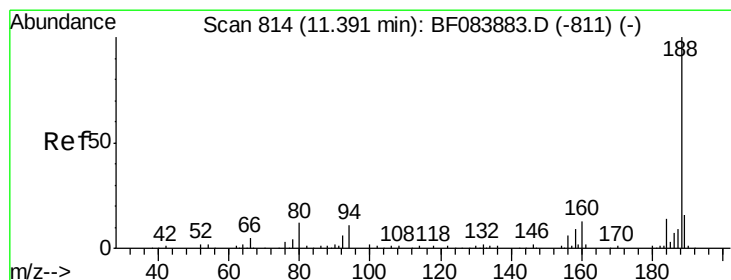
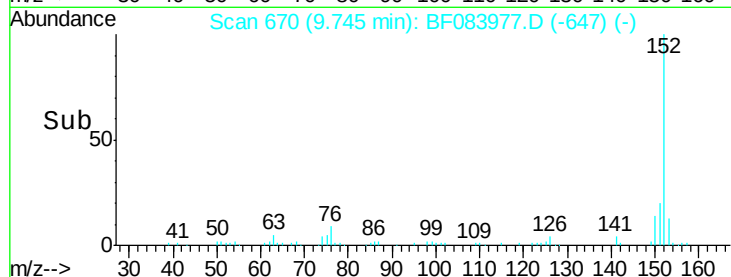
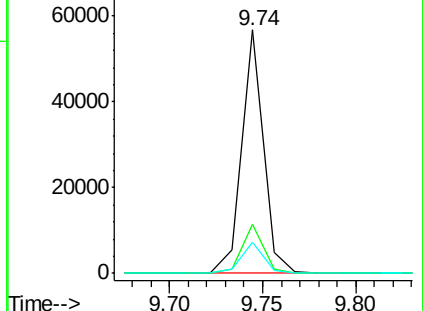
153 12.8 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 812

Delta R.T. -0.02 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

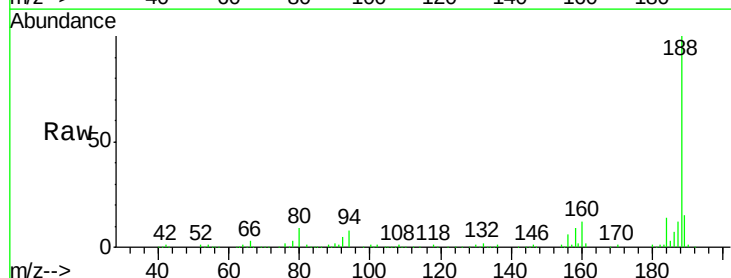
Tgt Ion:188 Resp: 200605

Ion Ratio Lower Upper

188 100

94 8.3 9.0 13.4#

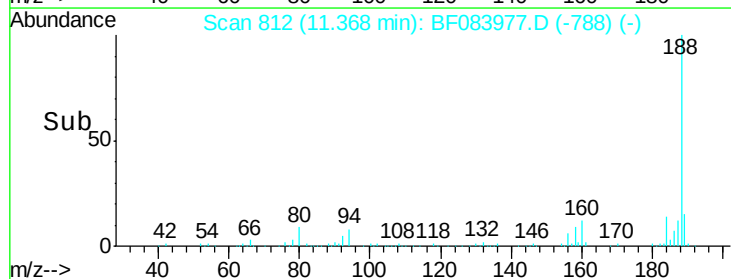
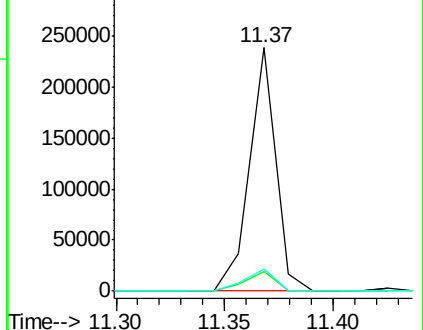
80 8.9 9.6 14.4#



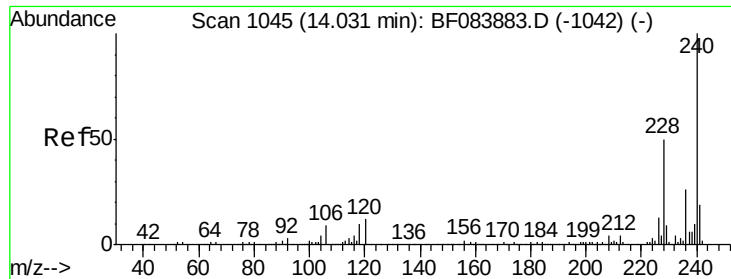
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0







#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.03 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPH

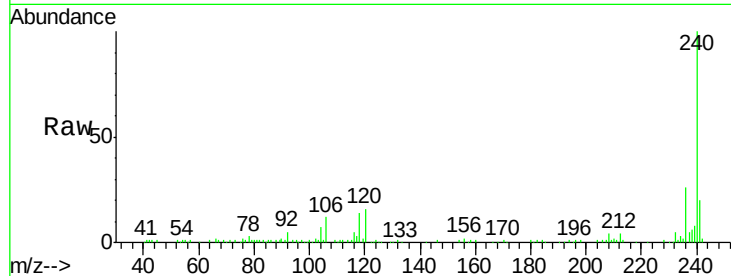
Tot Ion:240 Resp: 142847

Ion Ratio Lower Upper

240 100

120 16.3 9.5 14.3#

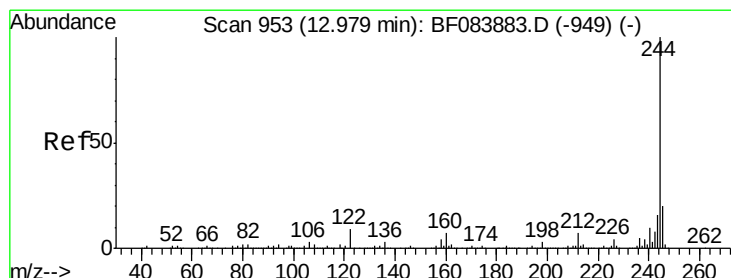
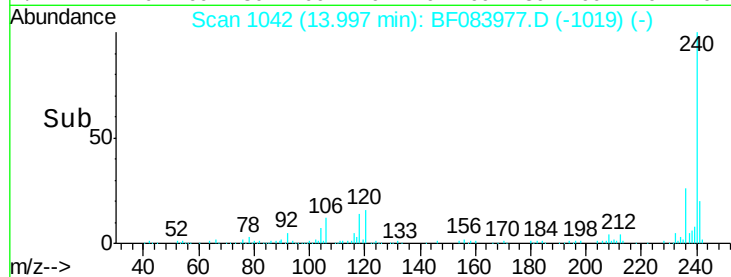
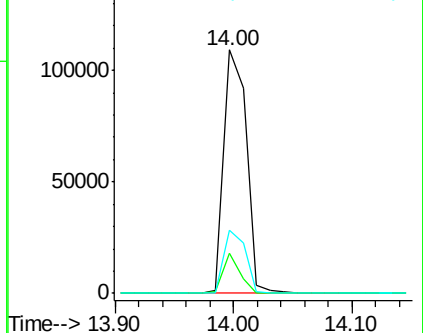
236 25.9 20.6 31.0



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: 124.29 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.02 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

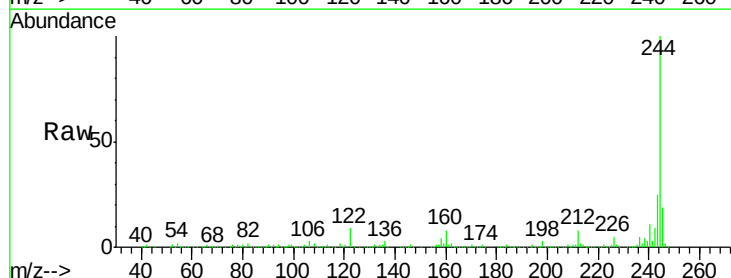
Tgt Ion:244 Resp: 741706

Ion Ratio Lower Upper

244 100

212 7.6 5.7 8.5

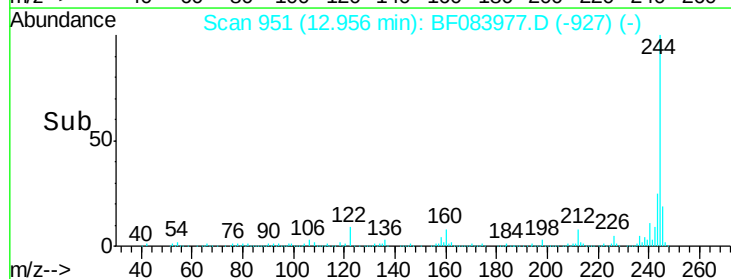
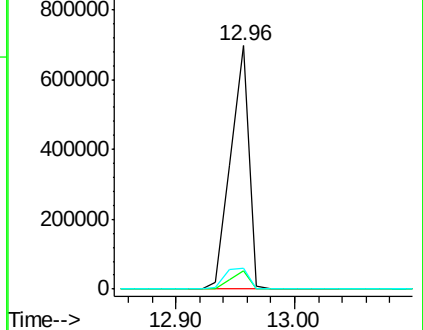
122 8.8 7.4 11.0

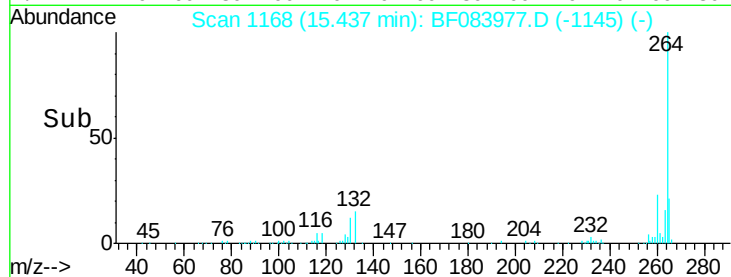
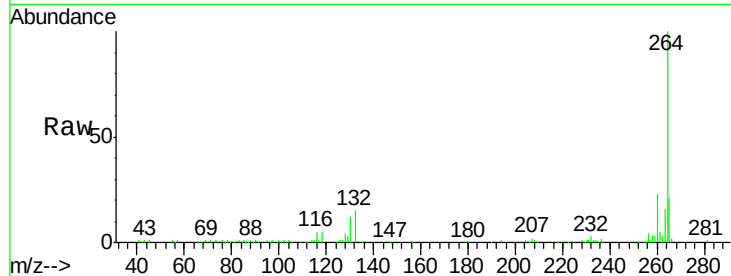
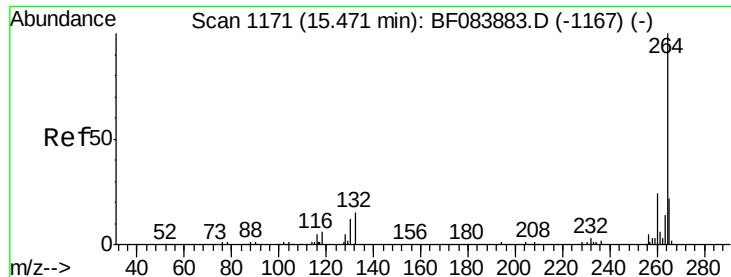


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.03 min

Lab File: BF083977.D

Acq: 20 Dec 2015 4:03

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPH

Tot Ion:264 Resp: 143724

Ion Ratio Lower Upper

264 100

260 23.1 19.4 29.2

265 20.9 17.8 26.6

