

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113015\  
 Data File : BF083348.D  
 Acq On : 30 Nov 2015 22:09  
 Operator : UM/IZ  
 Sample : PB86889BL  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86889BL

Quant Time: Dec 01 02:14:30 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 01 01:17:16 2015  
 Response via : Initial Calibration

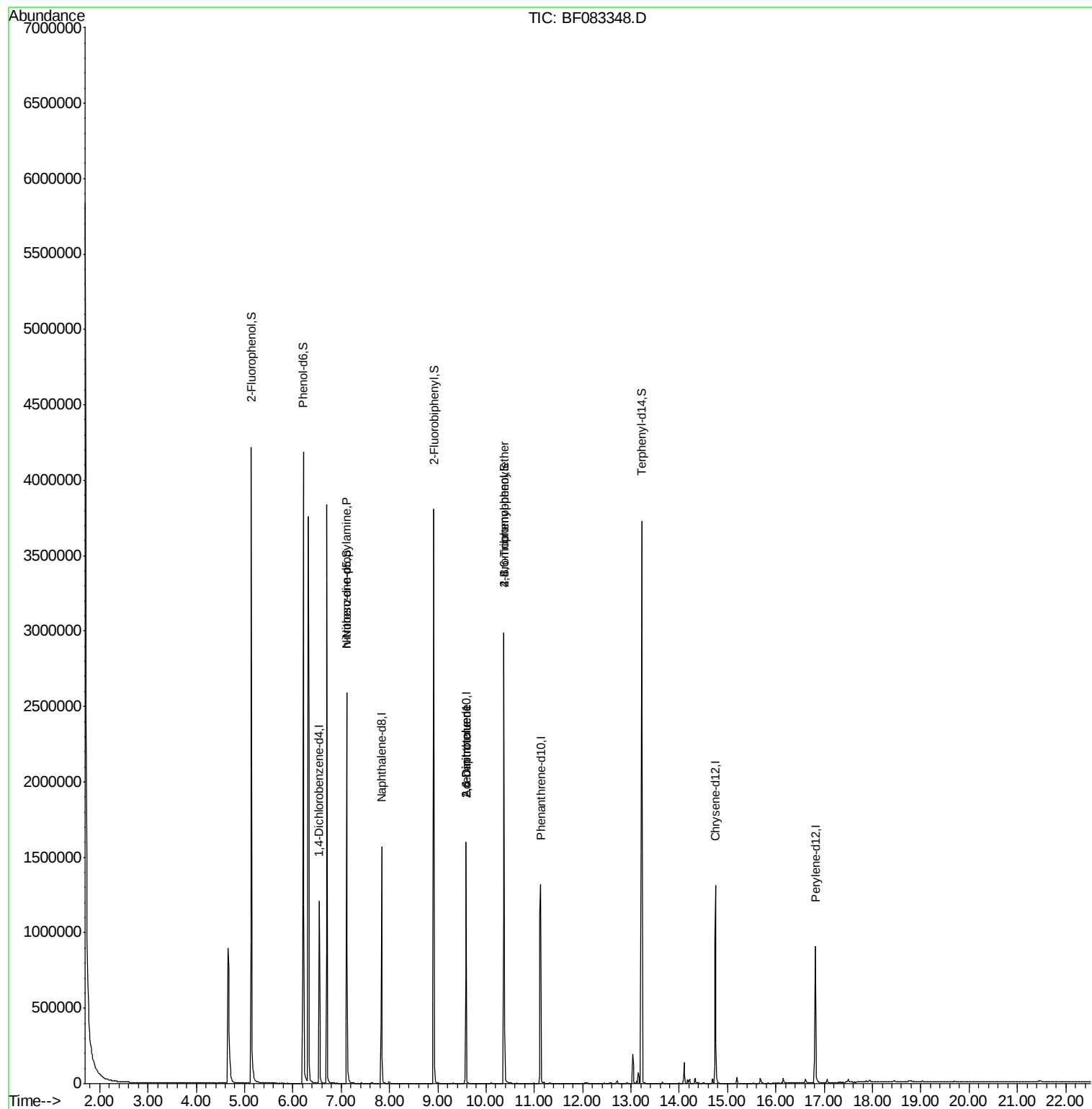
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.54  | 152  | 181391   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.84  | 136  | 710984   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.58  | 164  | 363334   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.13 | 188  | 714244   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.75 | 240  | 692862   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 16.82 | 264  | 579726   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.14  | 112  | 1226042  | 101.42    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.21  | 99   | 1523487  | 92.08     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.12  | 82   | 966918   | 59.78     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.37 | 330  | 344788   | 94.53     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.92  | 172  | 1753467  | 68.77     | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.22 | 244  | 1829214  | 62.96     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.21  | 77   | 2111     | Below Cal | #     | 6        |
| 19) n-Nitroso-di-n-propylamine | 7.12  | 70   | 129276   | 10.93     | ng    | # 83     |
| 50) 2,6-Dinitrotoluene         | 9.58  | 165  | 45203    | 7.17      | ng    | # 19     |
| 56) 2,4-Dinitrotoluene         | 9.58  | 165  | 45203    | 5.65      | ng    | # 6      |
| 66) 4-Bromophenyl-phenylether  | 10.37 | 248  | 20356    | 2.61      | ng    | # 1      |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.54 min Scan# 425

Delta R.T. -0.00 min

Lab File: BF083348.D

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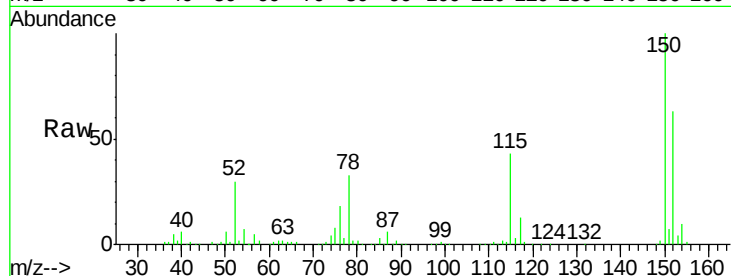
Tgt Ion:152 Resp: 181391

Ion Ratio Lower Upper

152 100

150 158.1 129.8 194.8

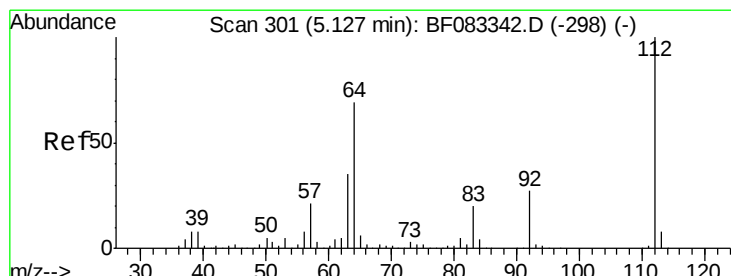
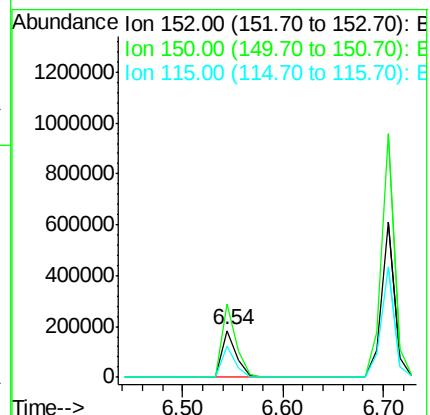
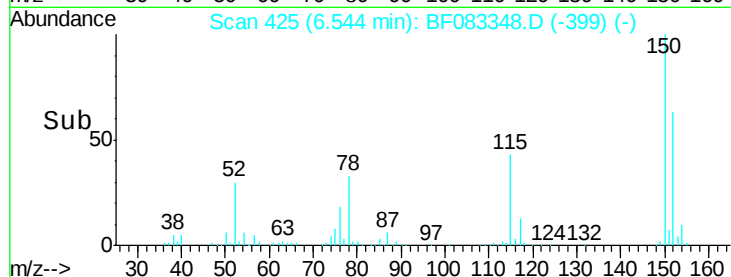
115 67.5 59.2 88.8



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: 101.42 ng

RT: 5.14 min Scan# 302

Delta R.T. 0.01 min

Lab File: BF083348.D

Acq: 30 Nov 2015 22:09

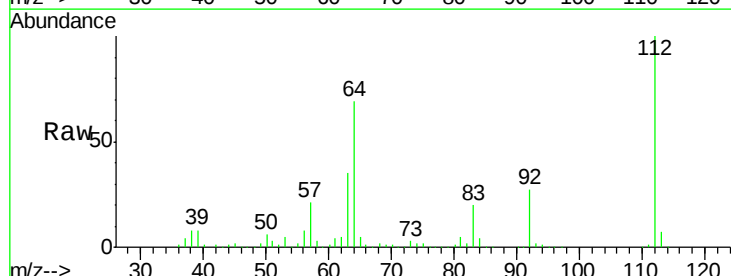
Tgt Ion:112 Resp: 1226042

Ion Ratio Lower Upper

112 100

64 68.9 55.6 83.4

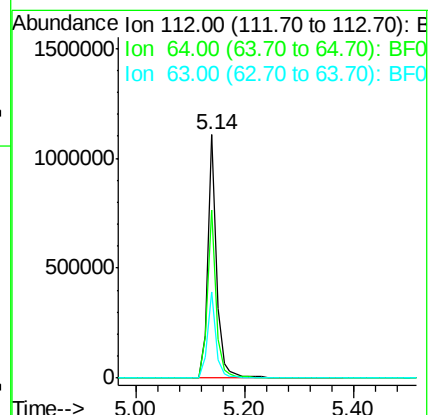
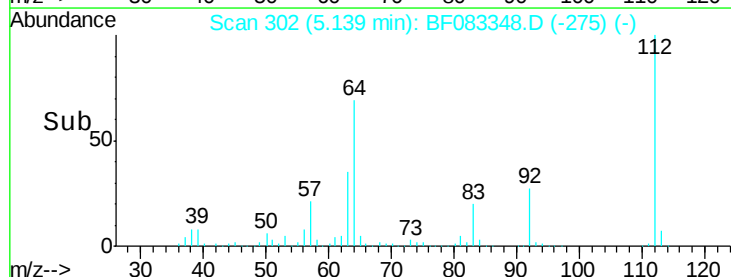
63 35.4 28.2 42.2



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: 92.08 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083348.D

Acq: 30 Nov 2015 22:09

Instrument :

BNA\_F

ClientSampleId :

PB86889BL

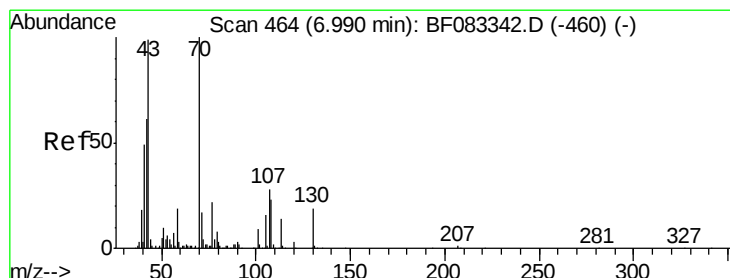
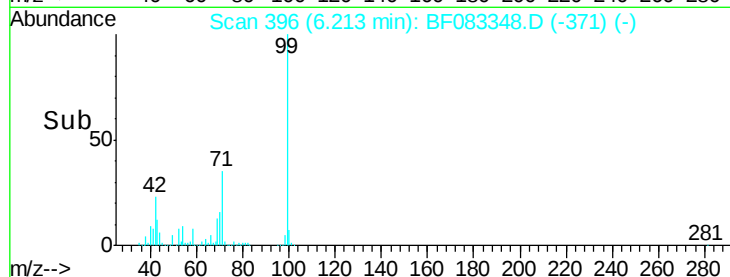
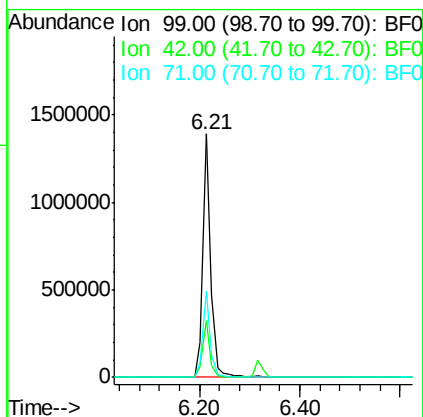
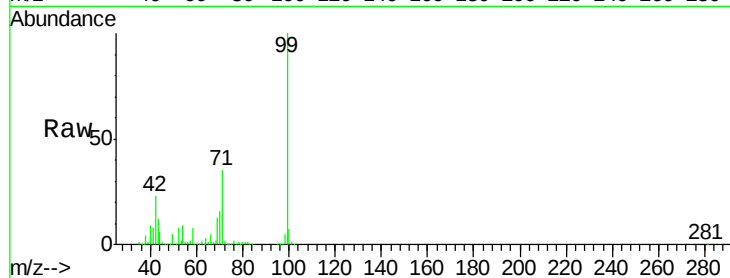
Tgt Ion: 99 Resp: 1523487

Ion Ratio Lower Upper

99 100

42 23.3 14.9 22.3#

71 35.3 24.7 37.1



#19

n-Nitroso-di-n-propylamine

Concen: 10.93 ng

RT: 7.12 min Scan# 475

Delta R.T. 0.13 min

Lab File: BF083348.D

Acq: 30 Nov 2015 22:09

Tgt Ion: 70 Resp: 129276

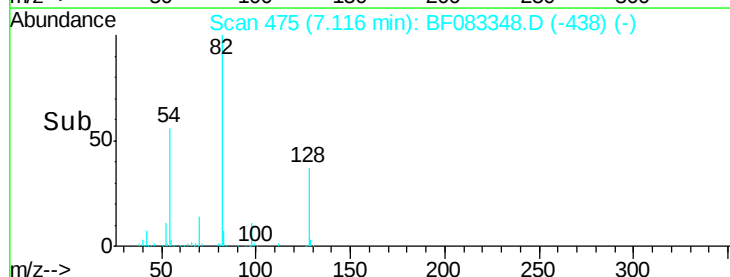
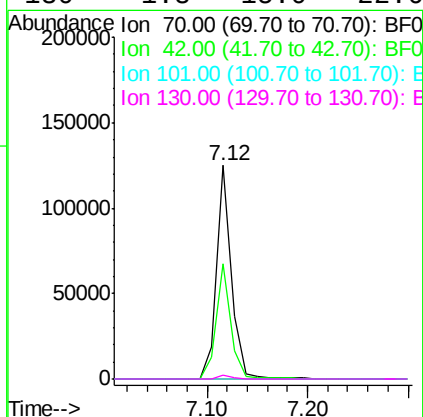
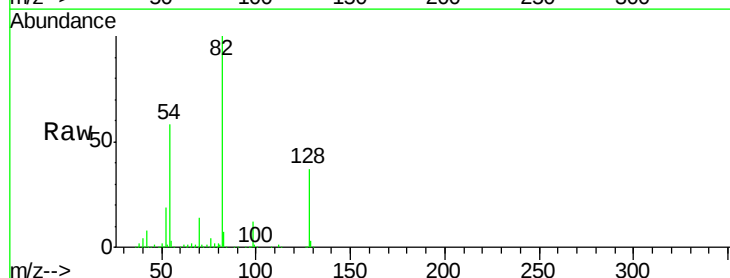
Ion Ratio Lower Upper

70 100

42 53.7 48.8 73.2

101 0.0 7.1 10.7#

130 1.8 15.0 22.6#

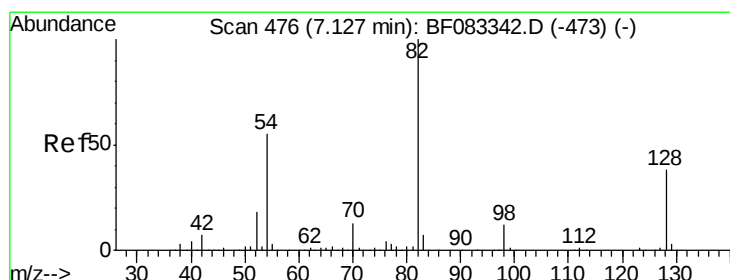
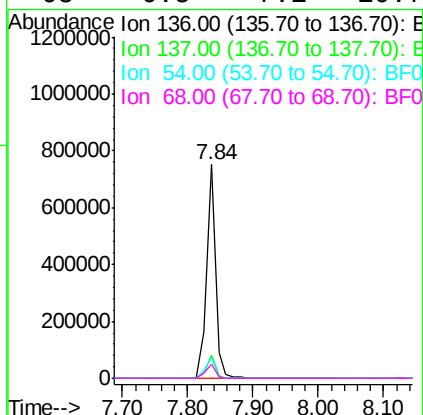
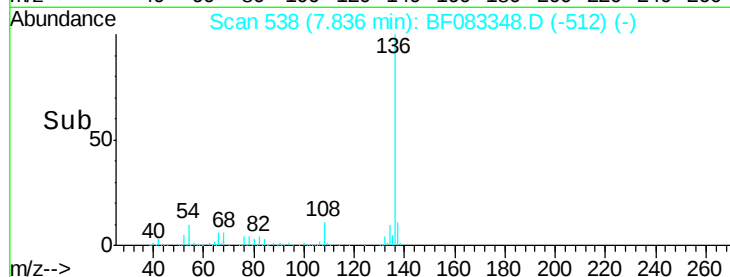
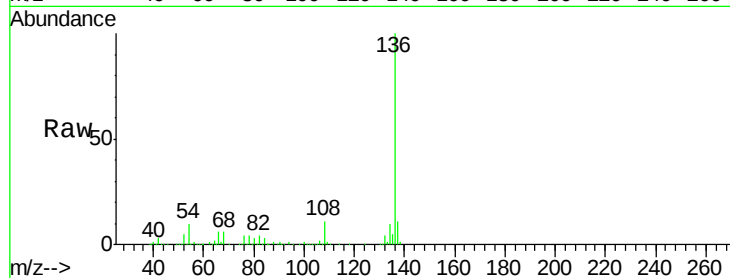




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.84 min Scan# 538  
Delta R.T. -0.00 min  
Lab File: BF083348.D  
Acq: 30 Nov 2015 22:09

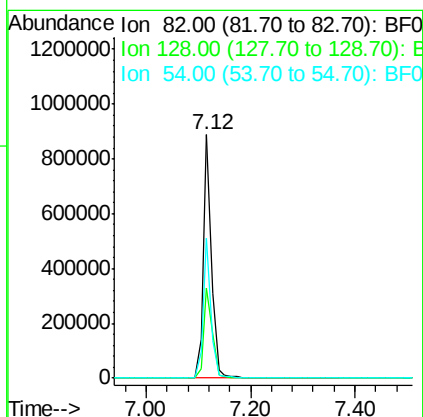
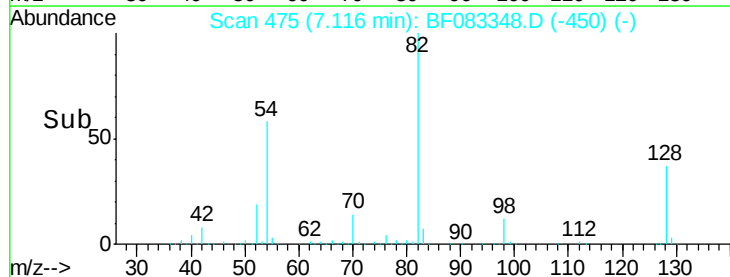
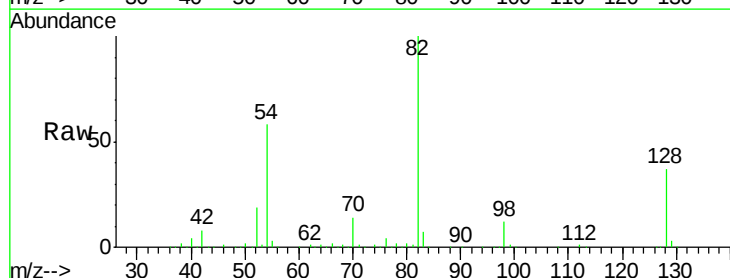
Instrument :  
BNA\_F  
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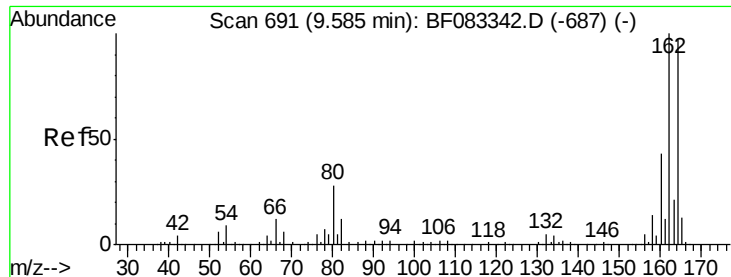
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 710984 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.0   | 13.4   |
| 54       | 9.6   | 10.1  | 15.1#  |
| 68       | 6.5   | 7.1   | 10.7#  |



#23  
Nitrobenzene-d5  
Concen: 59.78 ng  
RT: 7.12 min Scan# 475  
Delta R.T. -0.01 min  
Lab File: BF083348.D  
Acq: 30 Nov 2015 22:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 966918 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 36.9  | 30.6  | 46.0   |
| 54       | 57.7  | 43.8  | 65.6   |

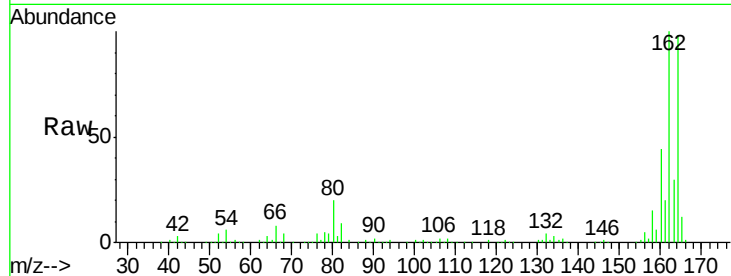




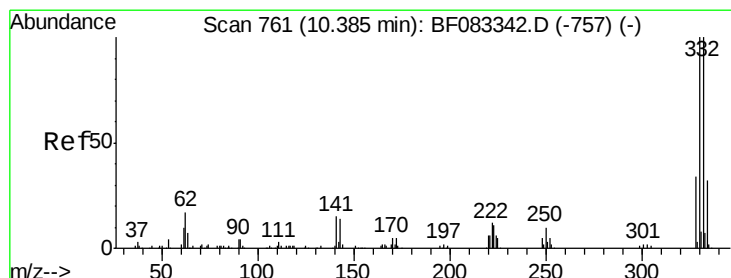
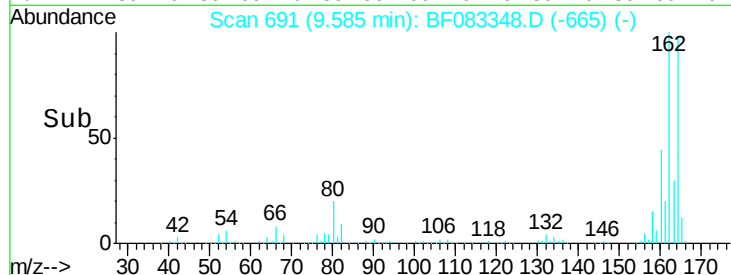
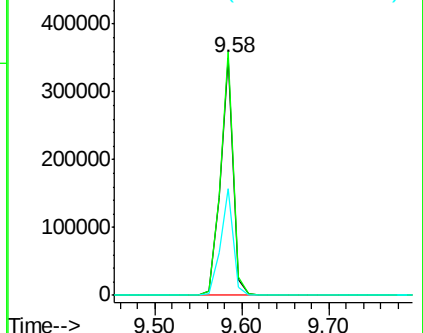
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.58 min Scan# 691  
 Delta R.T. -0.00 min  
 Lab File: BF083348.D  
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Instrument :  
 BNA\_F  
 ClientSampleId :  
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Tgt Ion:164 Resp: 363334  
 Ion Ratio Lower Upper  
 164 100  
 162 102.4 82.6 123.8  
 160 44.8 35.3 52.9

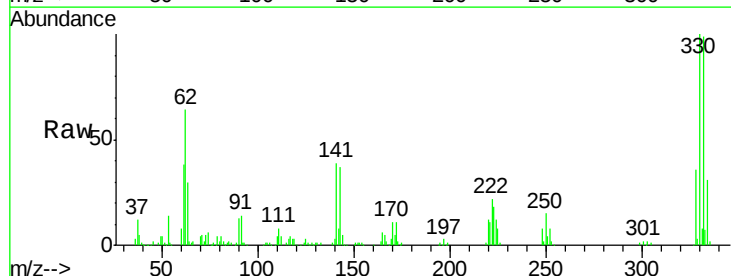


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

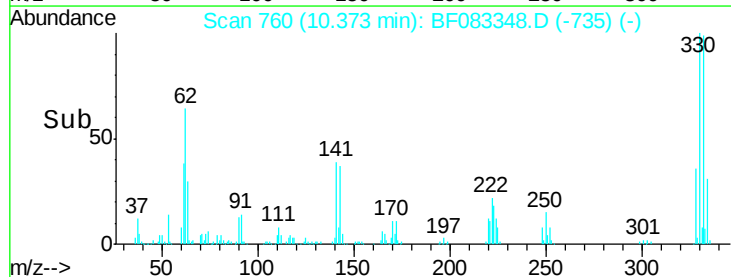
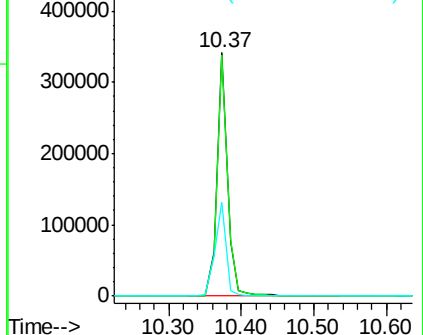


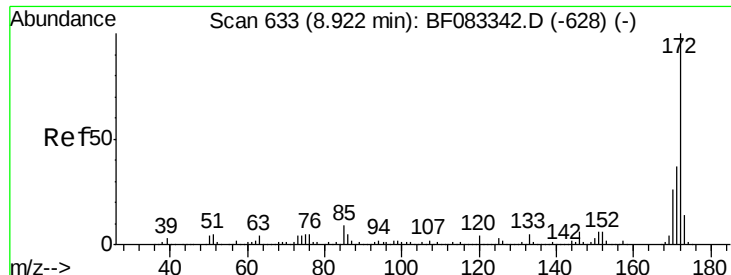
#41  
 2,4,6-Tribromophenol  
 Concen: 94.53 ng  
 RT: 10.37 min Scan# 760  
 Delta R.T. -0.01 min  
 Lab File: BF083348.D  
 Acq: 30 Nov 2015 22:09

Tgt Ion:330 Resp: 344788  
 Ion Ratio Lower Upper  
 330 100  
 332 98.4 77.8 116.6  
 141 40.9 29.4 44.0



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

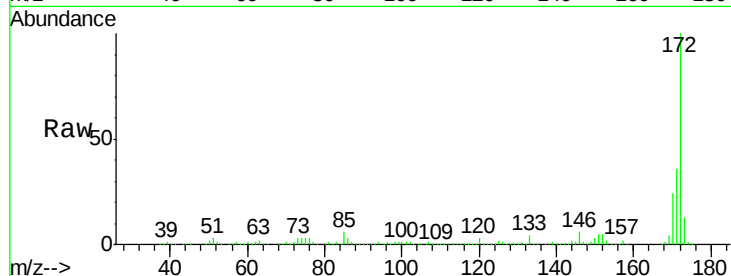




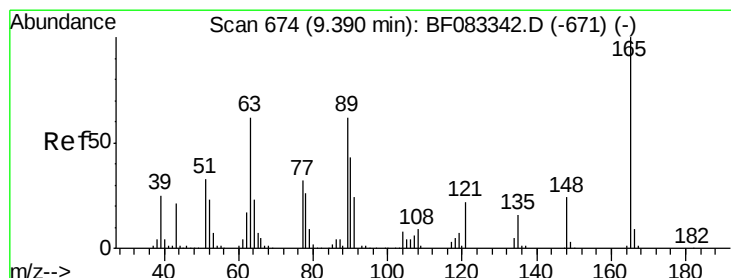
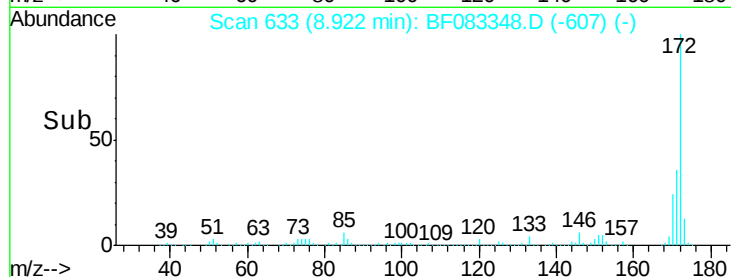
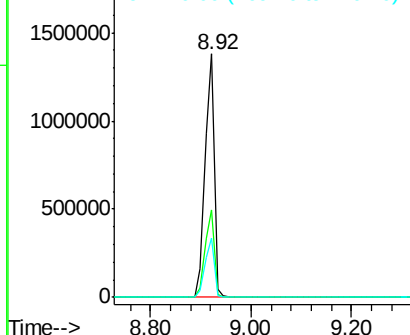
#44  
 2-Fluorobiphenyl  
 Concen: 68.77 ng  
 RT: 8.92 min Scan# 633  
 Delta R.T. -0.00 min  
 Lab File: BF083348.D  
 Acq: 30 Nov 2015 22:09

Instrument :  
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Tgt Ion:172 Resp: 1753467  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.4 44.0  
 170 24.1 20.4 30.6

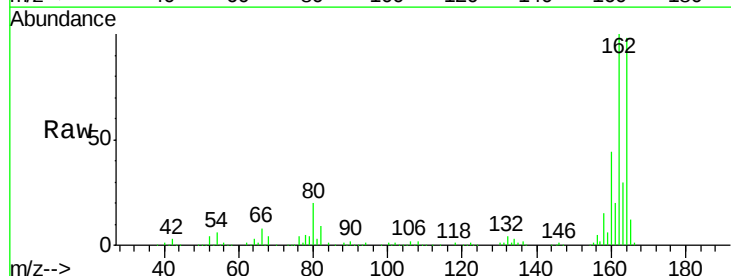


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

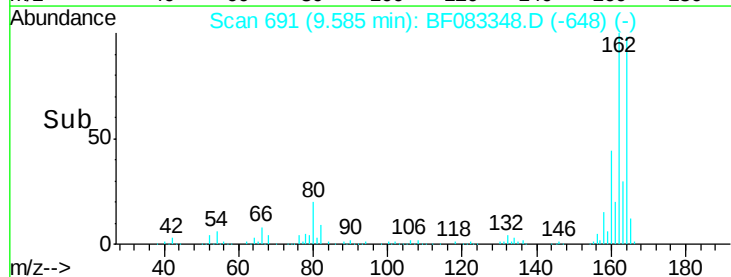
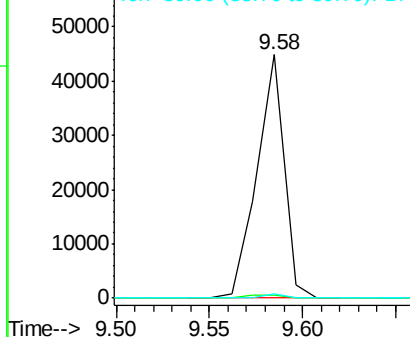


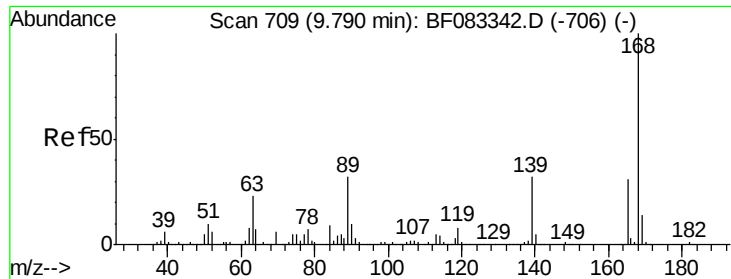
#50  
 2,6-Dinitrotoluene  
 Concen: 7.17 ng  
 RT: 9.58 min Scan# 691  
 Delta R.T. 0.19 min  
 Lab File: BF083348.D  
 Acq: 30 Nov 2015 22:09

Tgt Ion:165 Resp: 45203  
 Ion Ratio Lower Upper  
 165 100  
 63 1.3 56.0 84.0#  
 89 1.6 49.8 74.8#



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

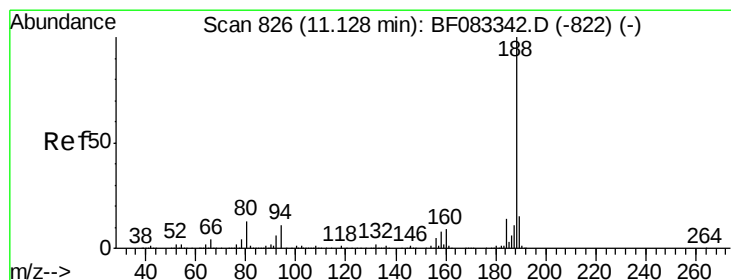
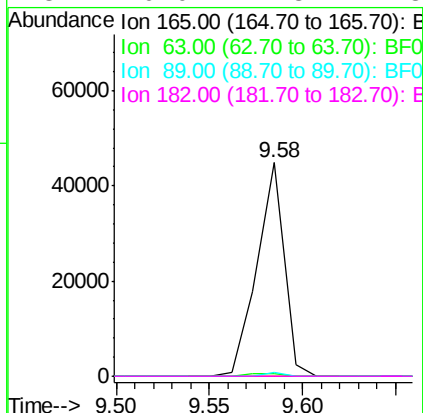
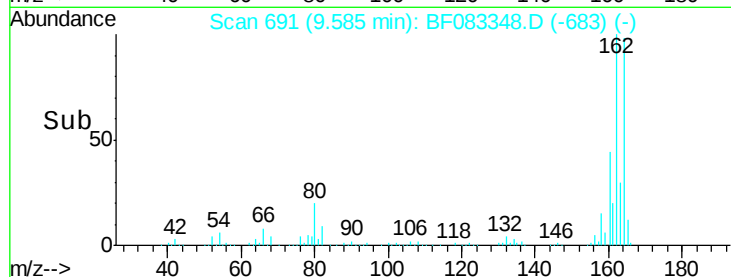
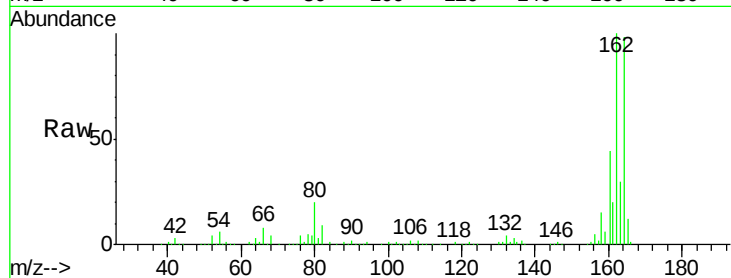




#56  
 2,4-Dinitrotoluene  
 Concen: 5.65 ng  
 RT: 9.58 min Scan# 691  
 Delta R.T. -0.21 min  
 Lab File: BF083348.D  
 Acq: 30 Nov 2015 22:09

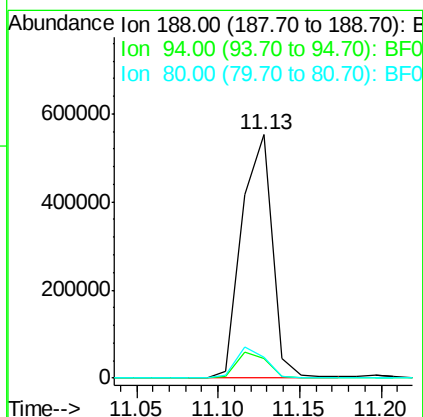
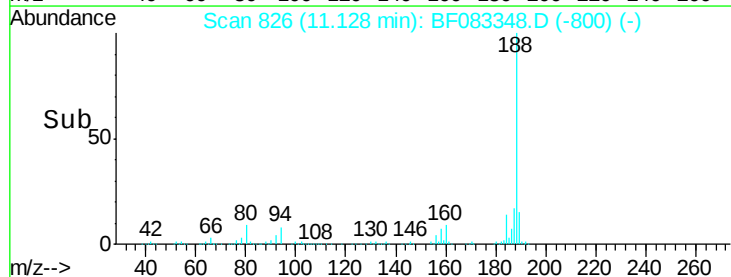
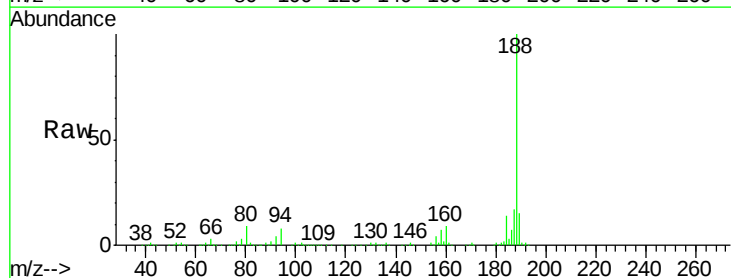
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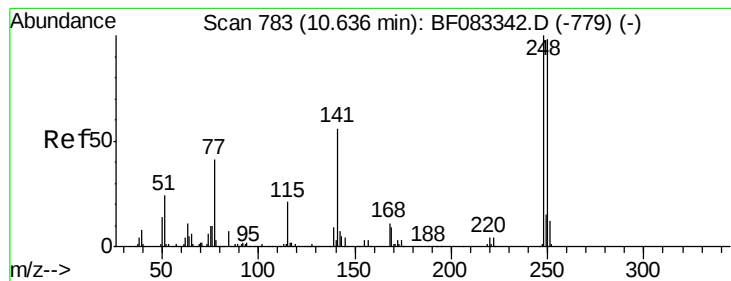
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 165   | Resp: | 45203  |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 63        | 1.3   | 65.4  | 98.0#  |
| 89        | 1.6   | 81.2  | 121.8# |
| 182       | 0.0   | 1.8   | 2.8#   |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.13 min Scan# 826  
 Delta R.T. -0.00 min  
 Lab File: BF083348.D  
 Acq: 30 Nov 2015 22:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 714244 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 7.9   | 8.7   | 13.1#  |
| 80        | 8.8   | 10.3  | 15.5#  |





#66

4-Bromophenyl-phenylether

Concen: 2.61 ng

RT: 10.37 min Scan# 760

Delta R.T. -0.26 min

Lab File: BF083348.D

Acq: 30 Nov 2015 22:09

Instrument :

BNA\_F

ClientSampleId :

PB86889BL

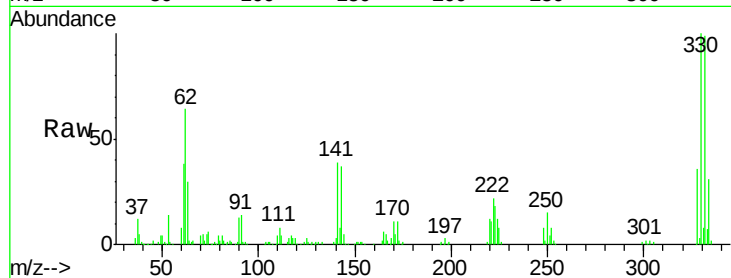
Tgt Ion:248 Resp: 20356

Ion Ratio Lower Upper

248 100

250 191.7 78.6 118.0#

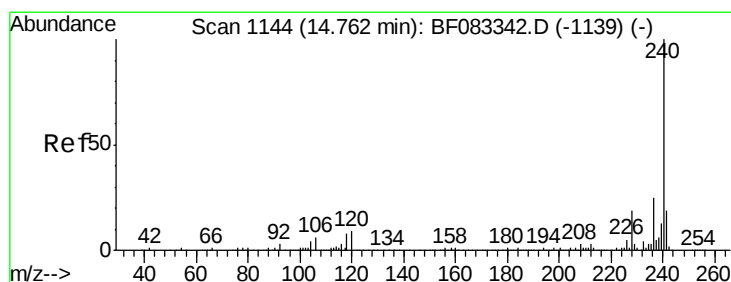
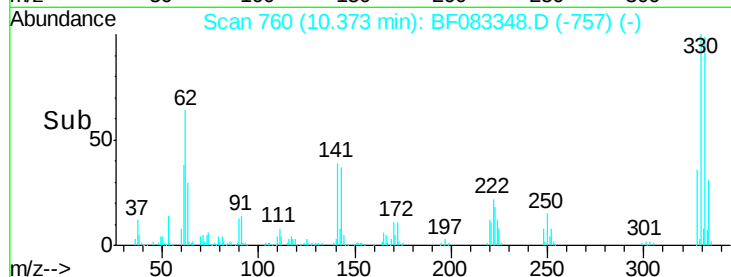
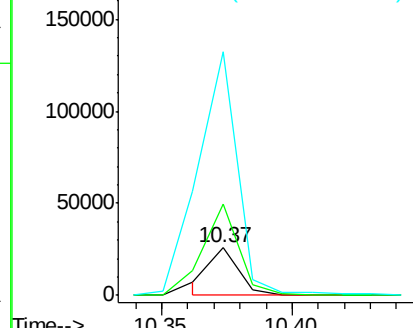
141 510.0 44.4 66.6#



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: 14.75 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF083348.D

Acq: 30 Nov 2015 22:09

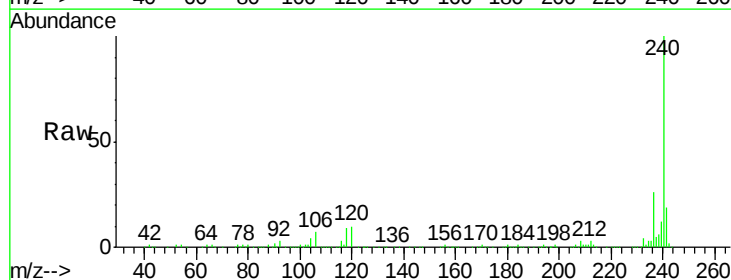
Tgt Ion:240 Resp: 692862

Ion Ratio Lower Upper

240 100

120 9.8 6.9 10.3

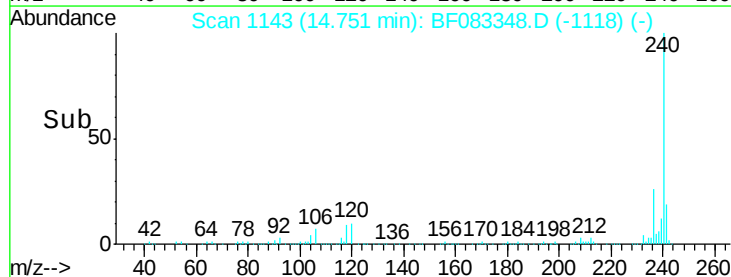
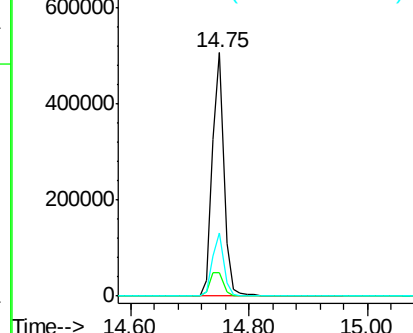
236 25.8 19.8 29.6

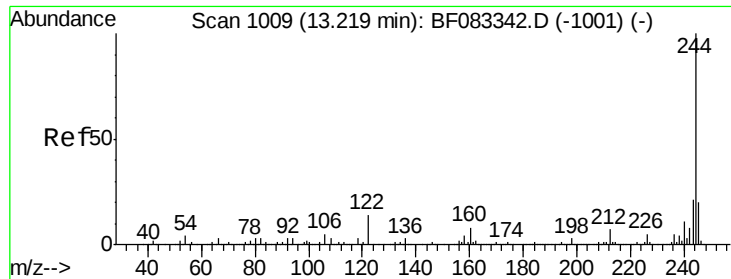


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 62.96 ng

RT: 13.22 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BF083348.D

Acq: 30 Nov 2015 22:09

Instrument :

BNA\_F

ClientSampleId :

PB86889BL

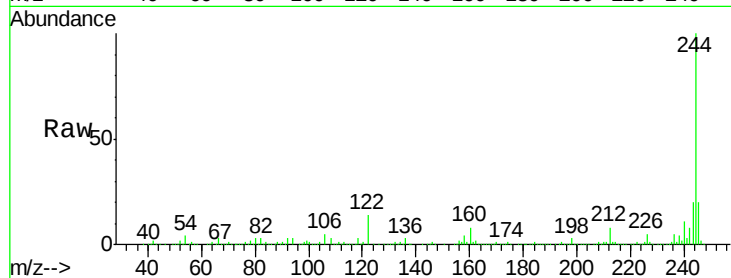
Tgt Ion:244 Resp: 1829214

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.8

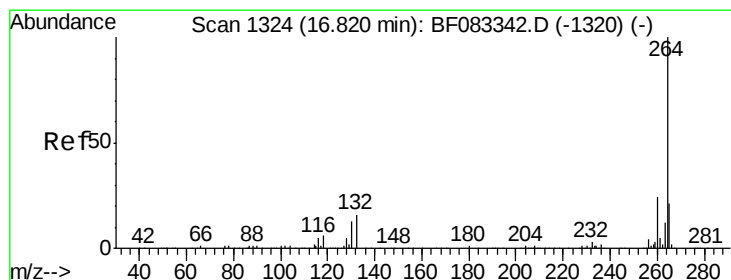
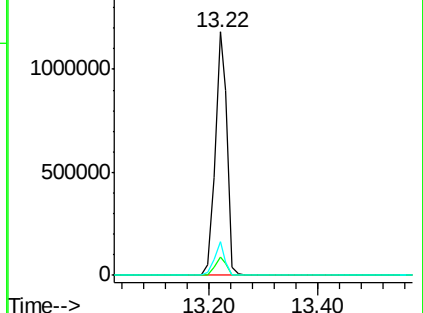
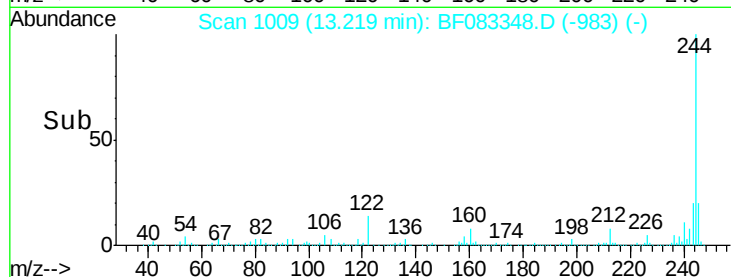
122 14.0 11.0 16.4



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: 16.82 min Scan# 1324

Delta R.T. -0.00 min

Lab File: BF083348.D

Acq: 30 Nov 2015 22:09

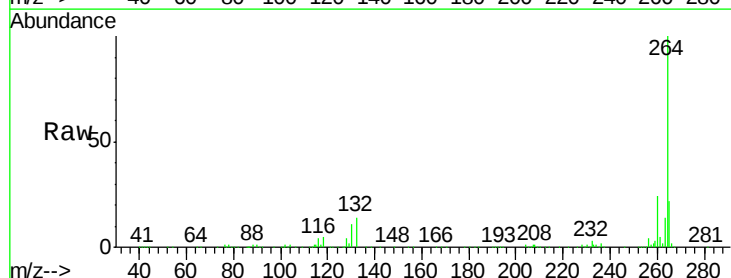
Tgt Ion:264 Resp: 579726

Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.4

265 22.0 16.8 25.2



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

