

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112315\  
 Data File : BF083208.D  
 Acq On : 23 Nov 2015 17:13  
 Operator : UM/IZ  
 Sample : G4437-11  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-11

Quant Time: Nov 24 04:33:00 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 09:22:46 2015  
 Response via : Initial Calibration

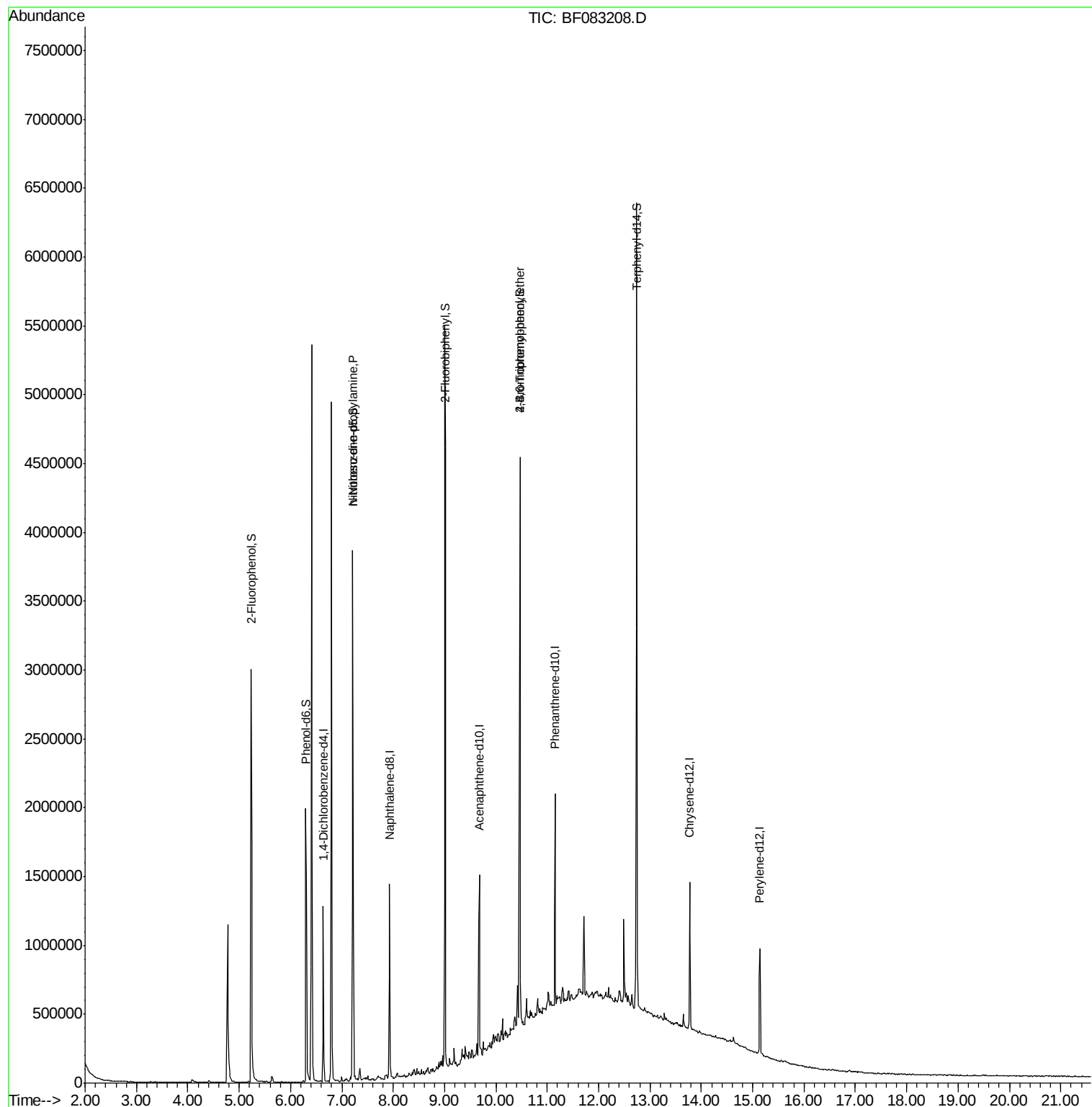
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.64  | 152  | 194122   | 20.00     | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.93  | 136  | 736844   | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.68  | 164  | 339891   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.15 | 188  | 625044   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12               | 13.77 | 240  | 481888   | 20.00     | ng    | -0.03    |
| 86) Perylene-d12               | 15.14 | 264  | 394006   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.23  | 112  | 1005940  | 78.34     | ng    | -0.05    |
| 7) Phenol-d6                   | 6.30  | 99   | 937311   | 56.42     | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.21  | 82   | 1546234  | 95.89     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.47 | 330  | 511445   | 147.08    | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.02  | 172  | 2545094  | 104.42    | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.74 | 244  | 2039903  | 99.68     | ng    | -0.02    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.30  | 77   | 1423     | Below Cal | #     | 4        |
| 19) n-Nitroso-di-n-propylamine | 7.21  | 70   | 213539   | 18.47 ng  | #     | 80       |
| 66) 4-Bromophenyl-phenylether  | 10.47 | 248  | 37270    | 5.37 ng   | #     | 1        |

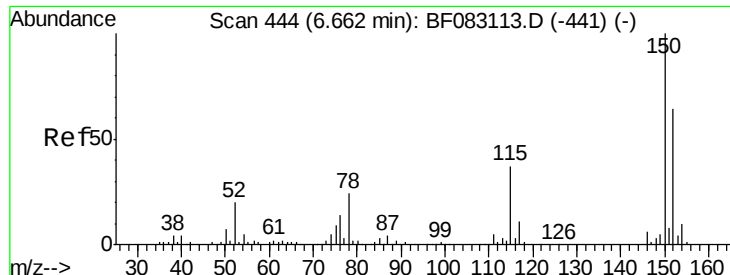
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MW-11

Quant Time: Nov 24 04:33:00 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 09:22:46 2015  
Response via : Initial Calibration

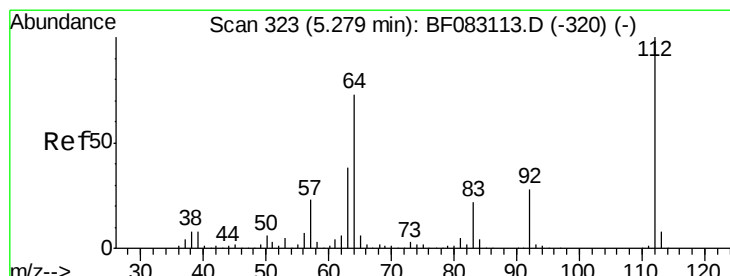
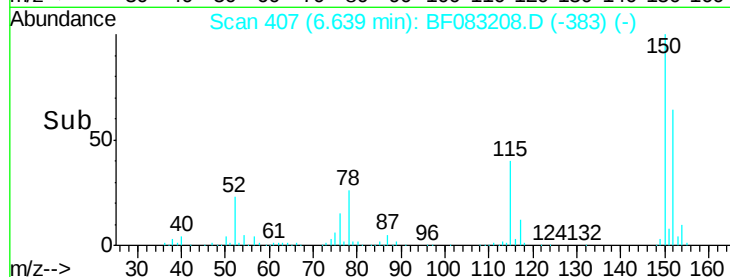
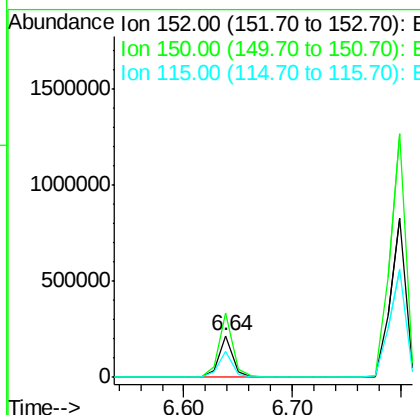
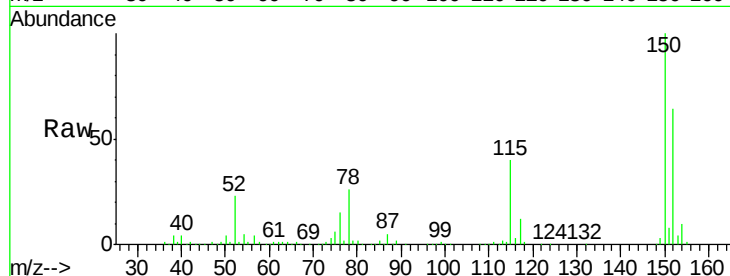




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.64 min Scan# 407  
 Delta R.T. -0.02 min  
 Lab File: BF083208.D  
 Acq: 23 Nov 2015 17:13

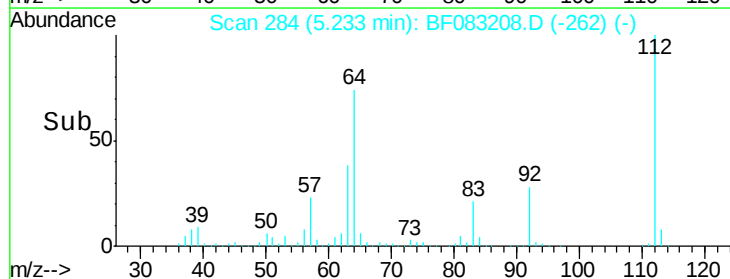
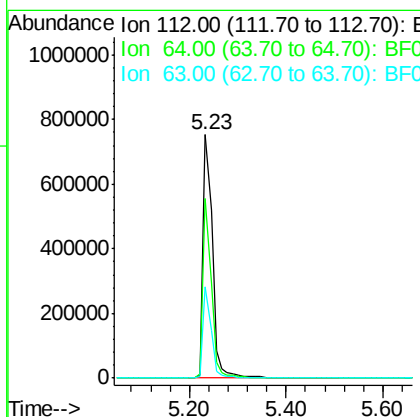
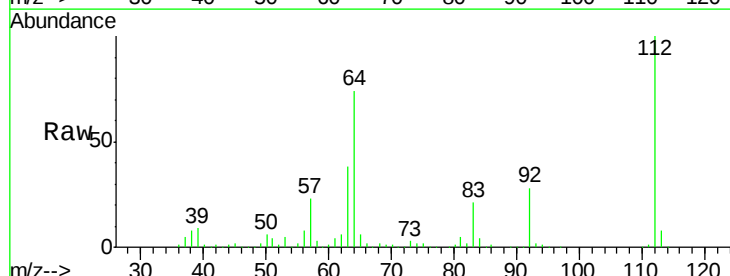
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-11

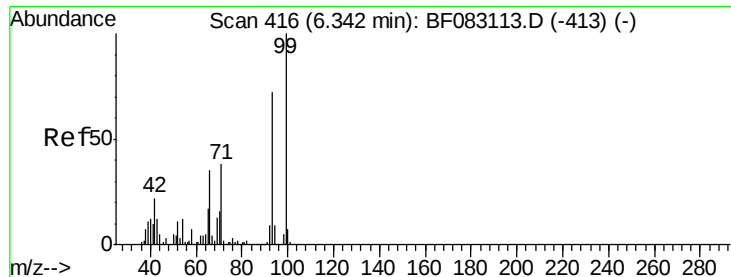
Tgt Ion:152 Resp: 194122  
 Ion Ratio Lower Upper  
 152 100  
 150 156.6 125.8 188.8  
 115 62.7 46.9 70.3



#5  
 2-Fluorophenol  
 Concen: 78.34 ng  
 RT: 5.23 min Scan# 284  
 Delta R.T. -0.05 min  
 Lab File: BF083208.D  
 Acq: 23 Nov 2015 17:13

Tgt Ion:112 Resp: 1005940  
 Ion Ratio Lower Upper  
 112 100  
 64 73.9 58.4 87.6  
 63 37.6 30.0 45.0





#7

Phenol-d6

Concen: 56.42 ng

RT: 6.30 min Scan# 377

Delta R.T. -0.05 min

Lab File: BF083208.D

Acq: 23 Nov 2015 17:13

Instrument :

BNA\_F

ClientSampleId :

MW-11

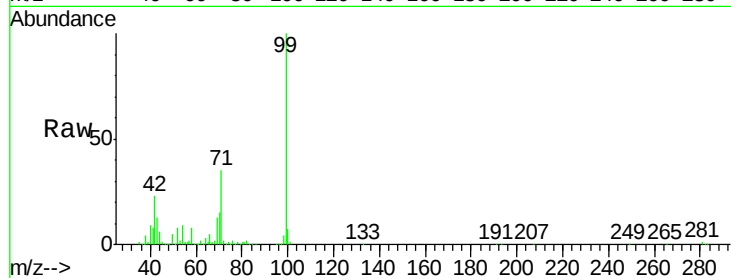
Tgt Ion: 99 Resp: 937311

Ion Ratio Lower Upper

99 100

42 23.2 17.7 26.5

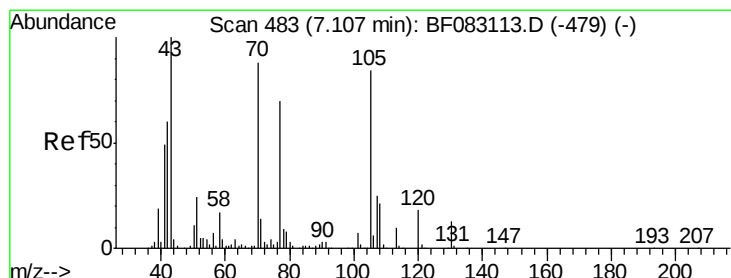
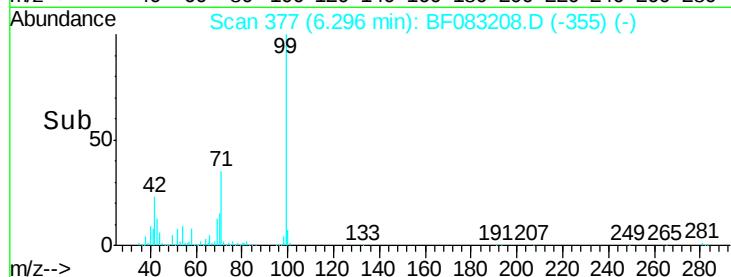
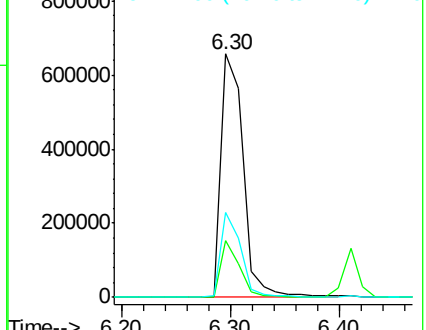
71 35.1 30.2 45.4



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



#19

n-Nitroso-di-n-propylamine

Concen: 18.47 ng

RT: 7.21 min Scan# 457

Delta R.T. 0.10 min

Lab File: BF083208.D

Acq: 23 Nov 2015 17:13

Tgt Ion: 70 Resp: 213539

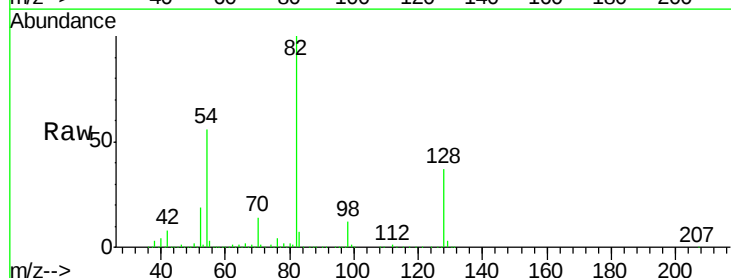
Ion Ratio Lower Upper

70 100

42 53.6 54.5 81.7#

101 0.0 6.6 9.8#

130 2.0 11.5 17.3#

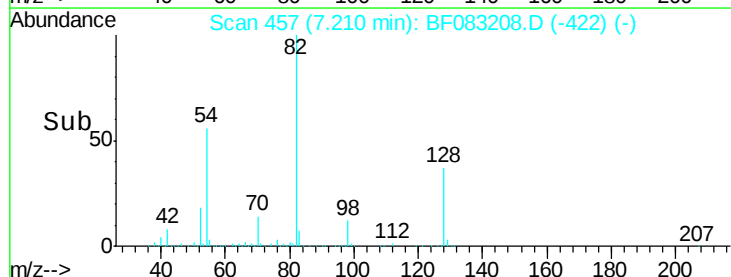
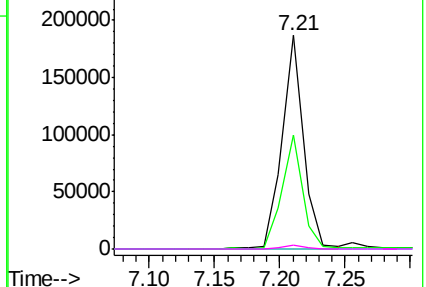


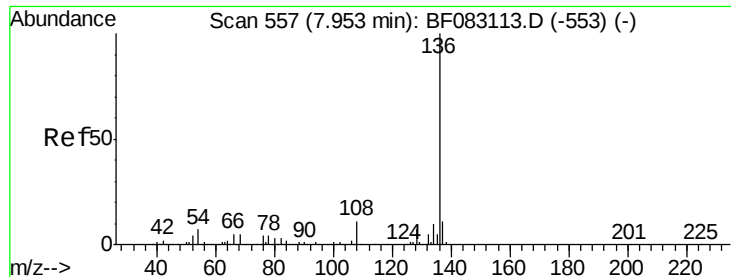
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

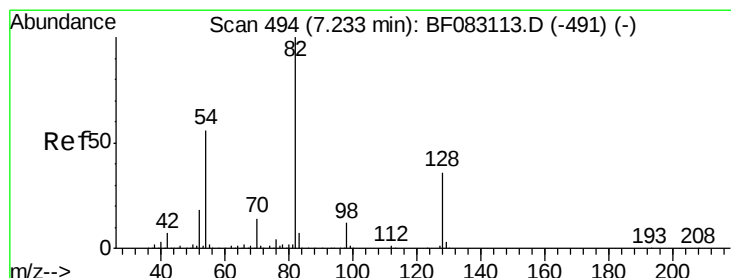
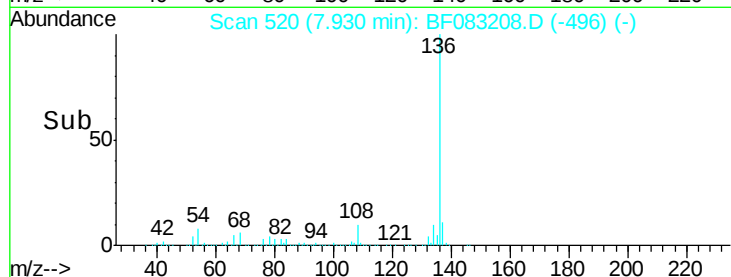
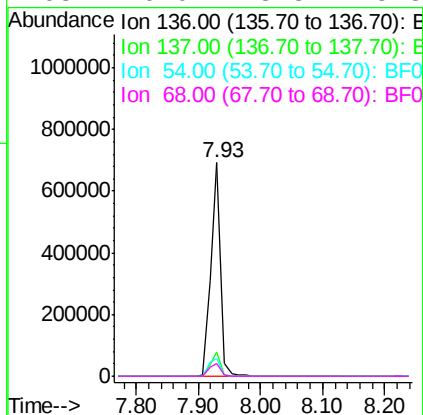
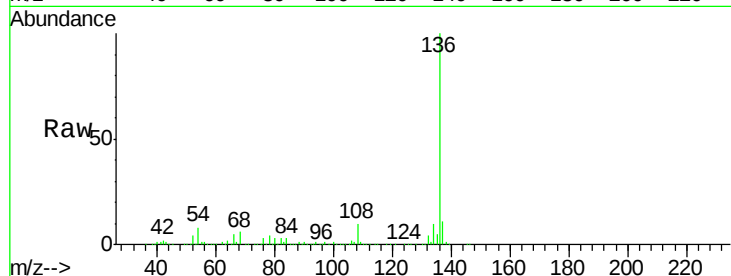




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.93 min Scan# 520  
Delta R.T. -0.02 min  
Lab File: BF083208.D  
Acq: 23 Nov 2015 17:13

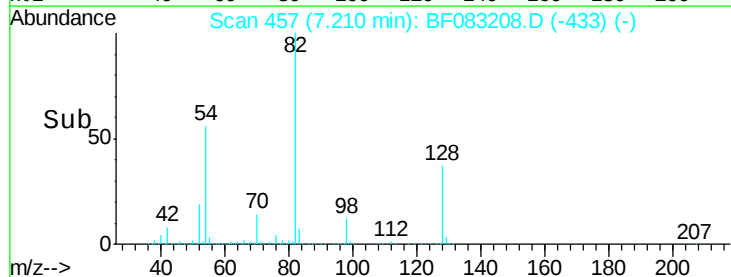
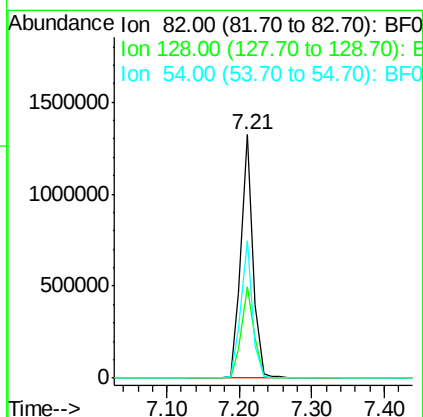
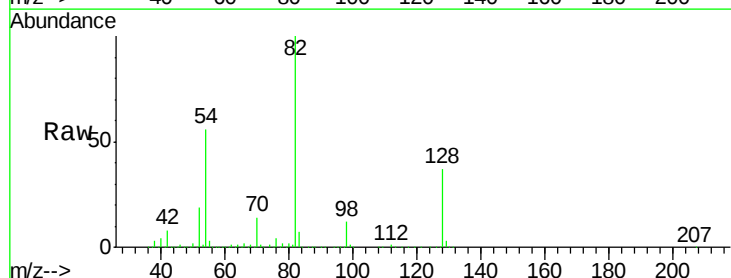
Instrument :  
BNA\_F  
ClientSampleId :  
MW-11

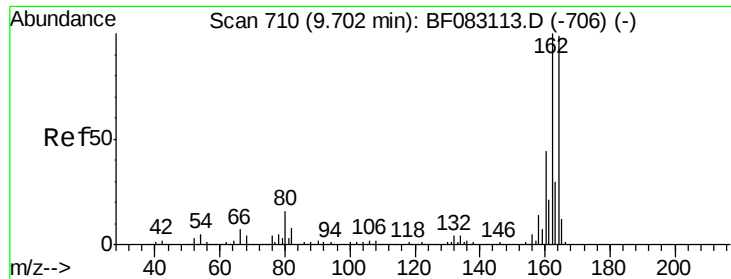
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 736844 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.7   | 13.1   |
| 54       | 8.2   | 5.8   | 8.6    |
| 68       | 6.0   | 3.8   | 5.8#   |



#23  
Nitrobenzene-d5  
Concen: 95.89 ng  
RT: 7.21 min Scan# 457  
Delta R.T. -0.02 min  
Lab File: BF083208.D  
Acq: 23 Nov 2015 17:13

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1546234 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 37.4  | 28.5  | 42.7    |
| 54       | 56.4  | 44.6  | 67.0    |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.68 min Scan# 673

Delta R.T. -0.02 min

Lab File: BF083208.D

Acq: 23 Nov 2015 17:13

Instrument :

BNA\_F

ClientSampleId :

MW-11

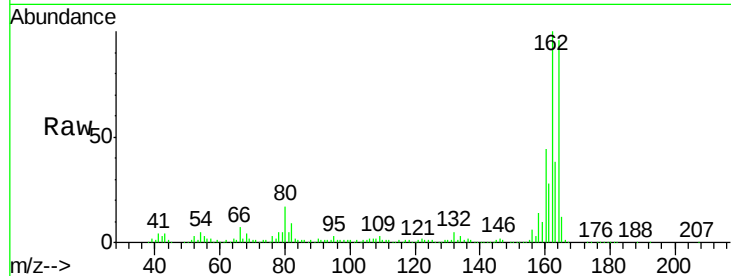
Tgt Ion:164 Resp: 339891

Ion Ratio Lower Upper

164 100

162 104.6 81.2 121.8

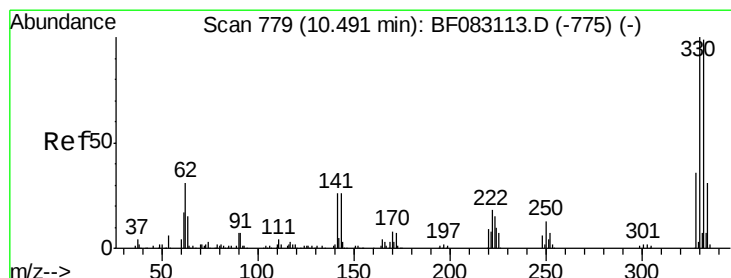
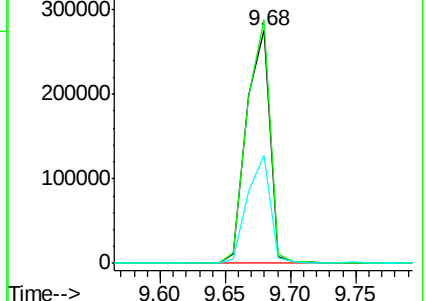
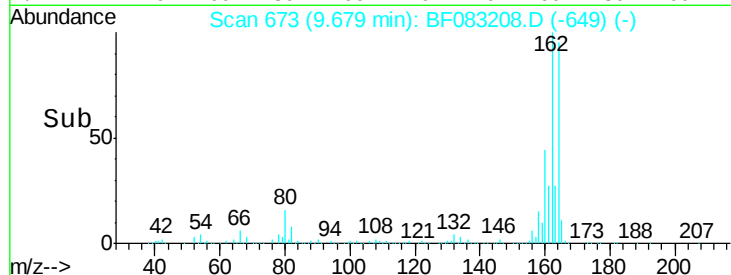
160 46.2 35.6 53.4



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: 147.08 ng

RT: 10.47 min Scan# 742

Delta R.T. -0.02 min

Lab File: BF083208.D

Acq: 23 Nov 2015 17:13

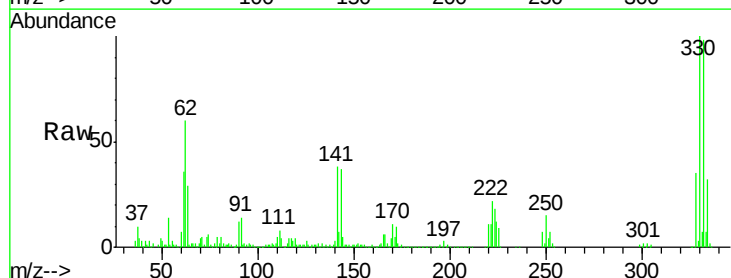
Tgt Ion:330 Resp: 511445

Ion Ratio Lower Upper

330 100

332 96.9 77.7 116.5

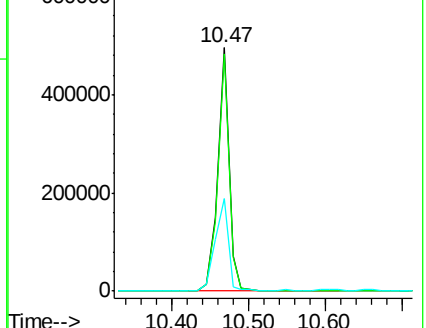
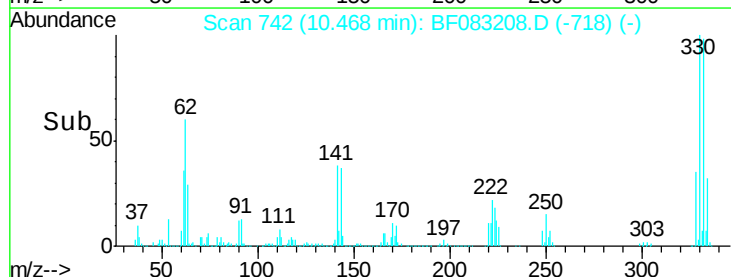
141 42.1 29.7 44.5

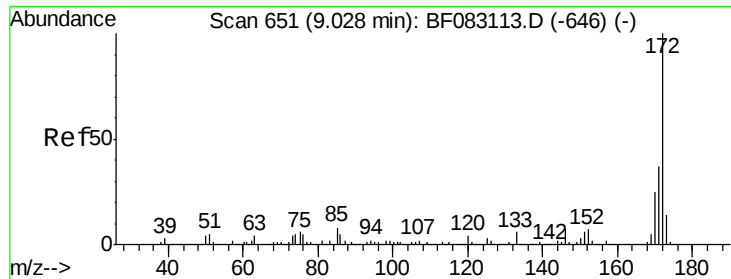


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

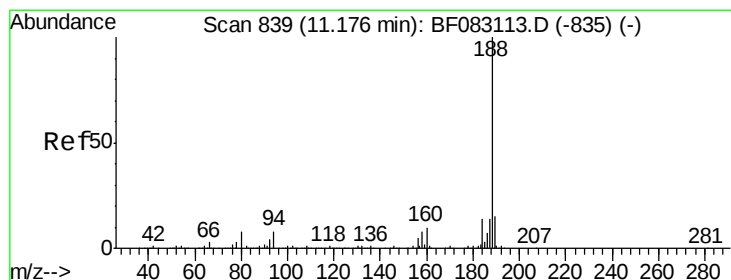
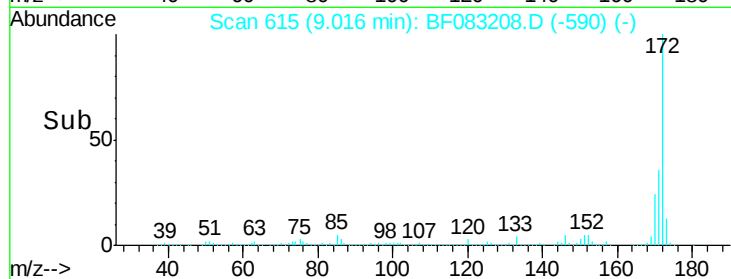
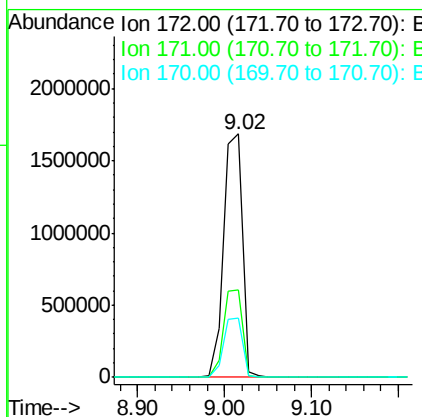
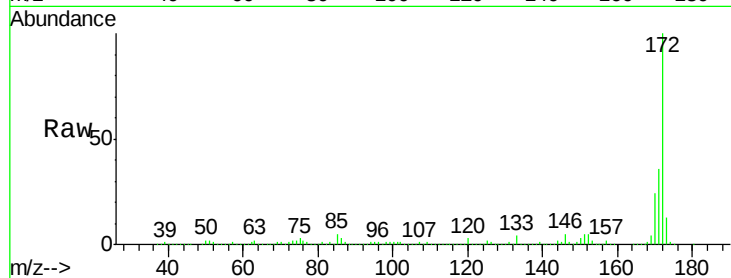




#44  
 2-Fluorobiphenyl  
 Concen: 104.42 ng  
 RT: 9.02 min Scan# 615  
 Delta R.T. -0.01 min  
 Lab File: BF083208.D  
 Acq: 23 Nov 2015 17:13

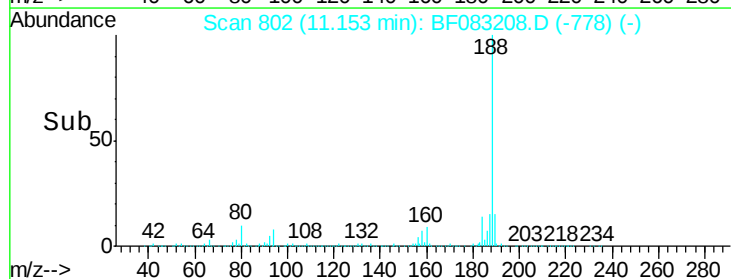
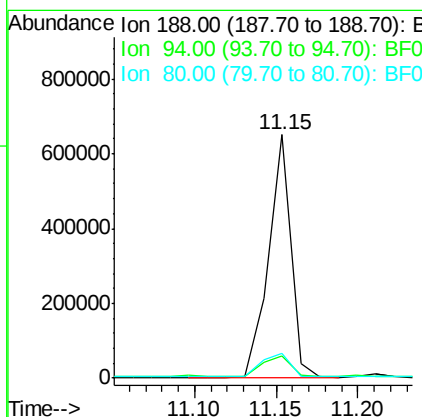
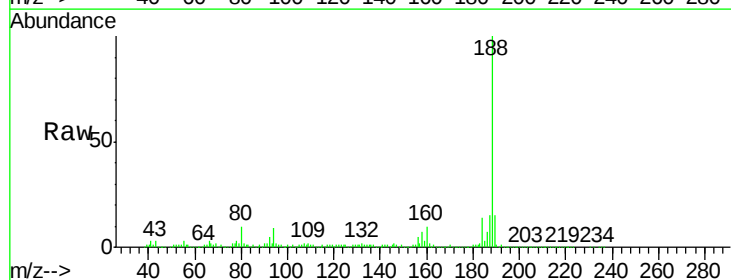
Instrument :  
 BNA\_F  
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 MW-11

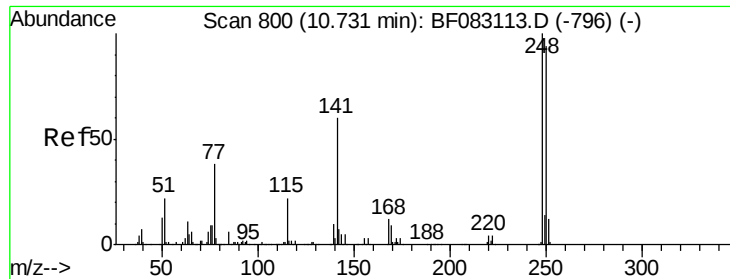
Tgt Ion:172 Resp: 2545094  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.5 44.3  
 170 24.5 19.9 29.9



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.15 min Scan# 802  
 Delta R.T. -0.02 min  
 Lab File: BF083208.D  
 Acq: 23 Nov 2015 17:13

Tgt Ion:188 Resp: 625044  
 Ion Ratio Lower Upper  
 188 100  
 94 9.2 6.0 9.0#  
 80 10.1 6.7 10.1

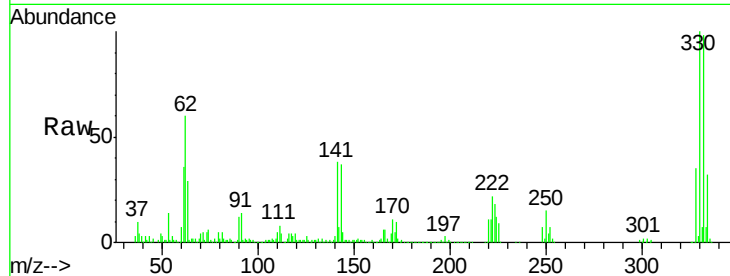




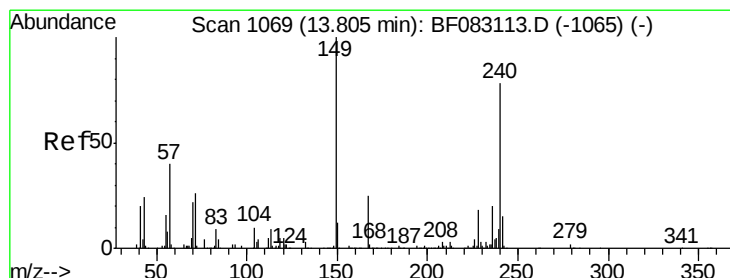
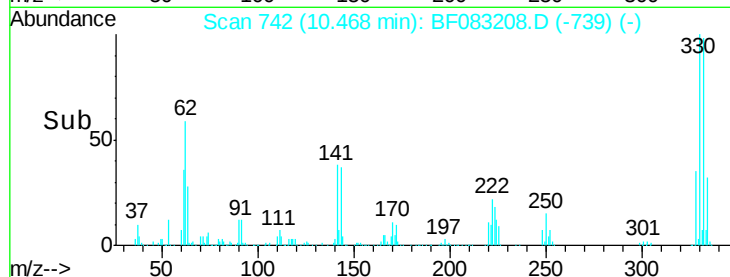
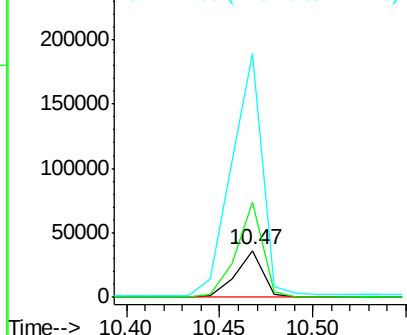
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.37 ng  
 RT: 10.47 min Scan# 742  
 Delta R.T. -0.26 min  
 Lab File: BF083208.D  
 Acq: 23 Nov 2015 17:13

Instrument :  
 BNA\_F  
 ClientSampled :  
 MW-11

Tgt Ion:248 Resp: 37270  
 Ion Ratio Lower Upper  
 248 100  
 250 202.4 75.4 113.2#  
 141 520.3 48.1 72.1#

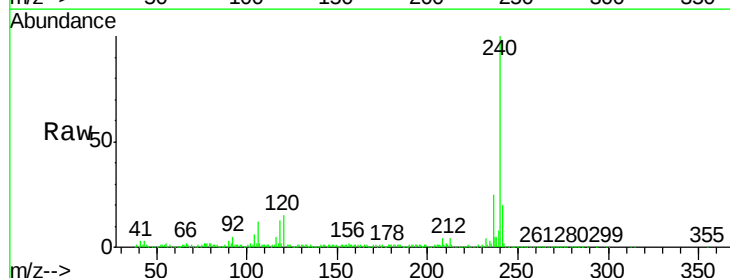


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

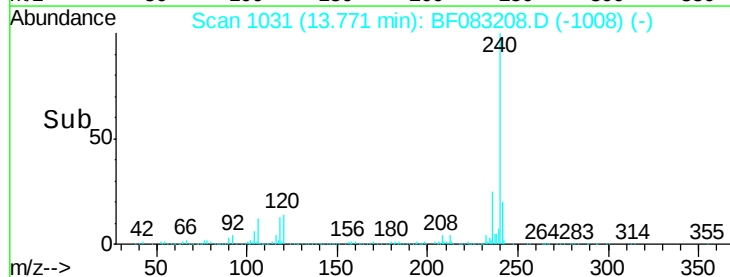
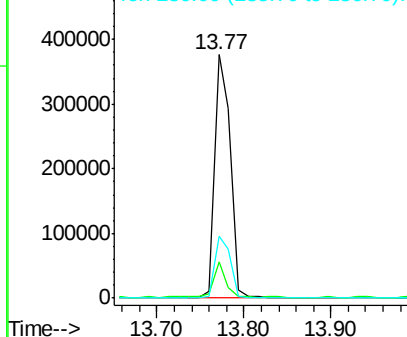


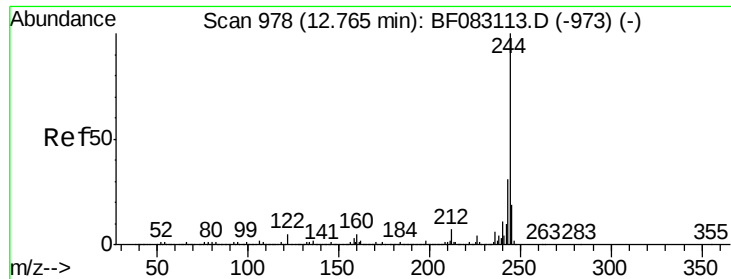
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.77 min Scan# 1031  
 Delta R.T. -0.03 min  
 Lab File: BF083208.D  
 Acq: 23 Nov 2015 17:13

Tgt Ion:240 Resp: 481888  
 Ion Ratio Lower Upper  
 240 100  
 120 14.7 5.4 8.2#  
 236 25.4 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

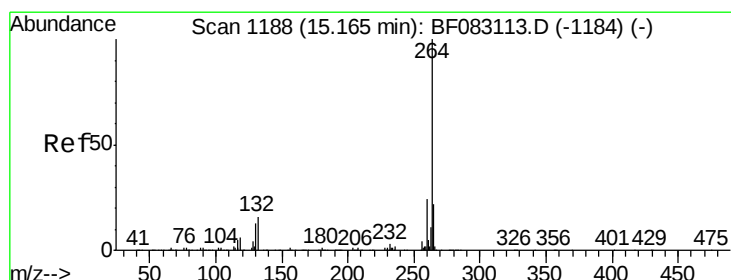
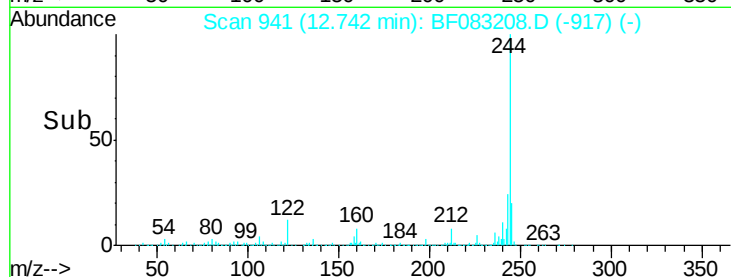
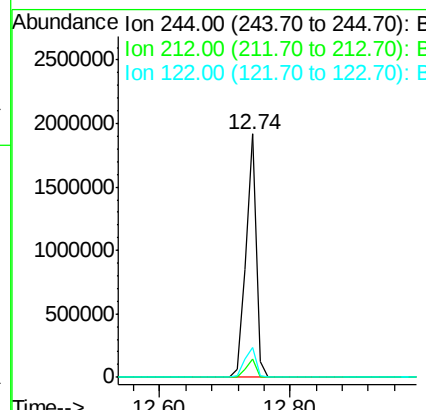
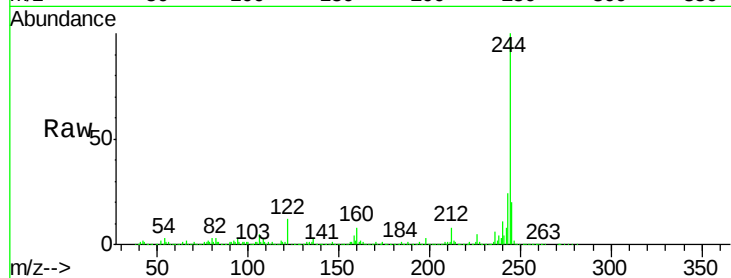




#78  
 Terphenyl-d14  
 Concen: 99.68 ng  
 RT: 12.74 min Scan# 941  
 Delta R.T. -0.02 min  
 Lab File: BF083208.D  
 Acq: 23 Nov 2015 17:13

Instrument :  
 BNA\_F  
 ClientSampled :  
 MW-11

Tgt Ion:244 Resp: 2039903  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 5.4 8.2  
 122 12.0 4.3 6.5#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.14 min Scan# 1151  
 Delta R.T. -0.02 min  
 Lab File: BF083208.D  
 Acq: 23 Nov 2015 17:13

Tgt Ion:264 Resp: 394006  
 Ion Ratio Lower Upper  
 264 100  
 260 22.9 19.1 28.7  
 265 21.3 18.2 27.4

