

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080216\  
 Data File : BF089560.D  
 Acq On : 2 Aug 2016 21:40  
 Operator : UM/SJ  
 Sample : H4269-21  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-56-15.0-19.5

Quant Time: Aug 03 02:13:22 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 03 01:32:56 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.47  | 152  | 44618    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.76  | 136  | 172071   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.50  | 164  | 77376    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 10.97 | 188  | 129551   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.59 | 240  | 93413    | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 14.91 | 264  | 85244    | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.04  | 112  | 163276   | 58.43  | ng    | 0.01     |
| 7) Phenol-d6                | 6.12  | 99   | 144878   | 39.23  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.05  | 82   | 285686   | 98.00  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.28 | 330  | 75965    | 118.54 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.83  | 172  | 460984   | 87.43  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.55 | 244  | 347903   | 87.17  | ng    | -0.01    |

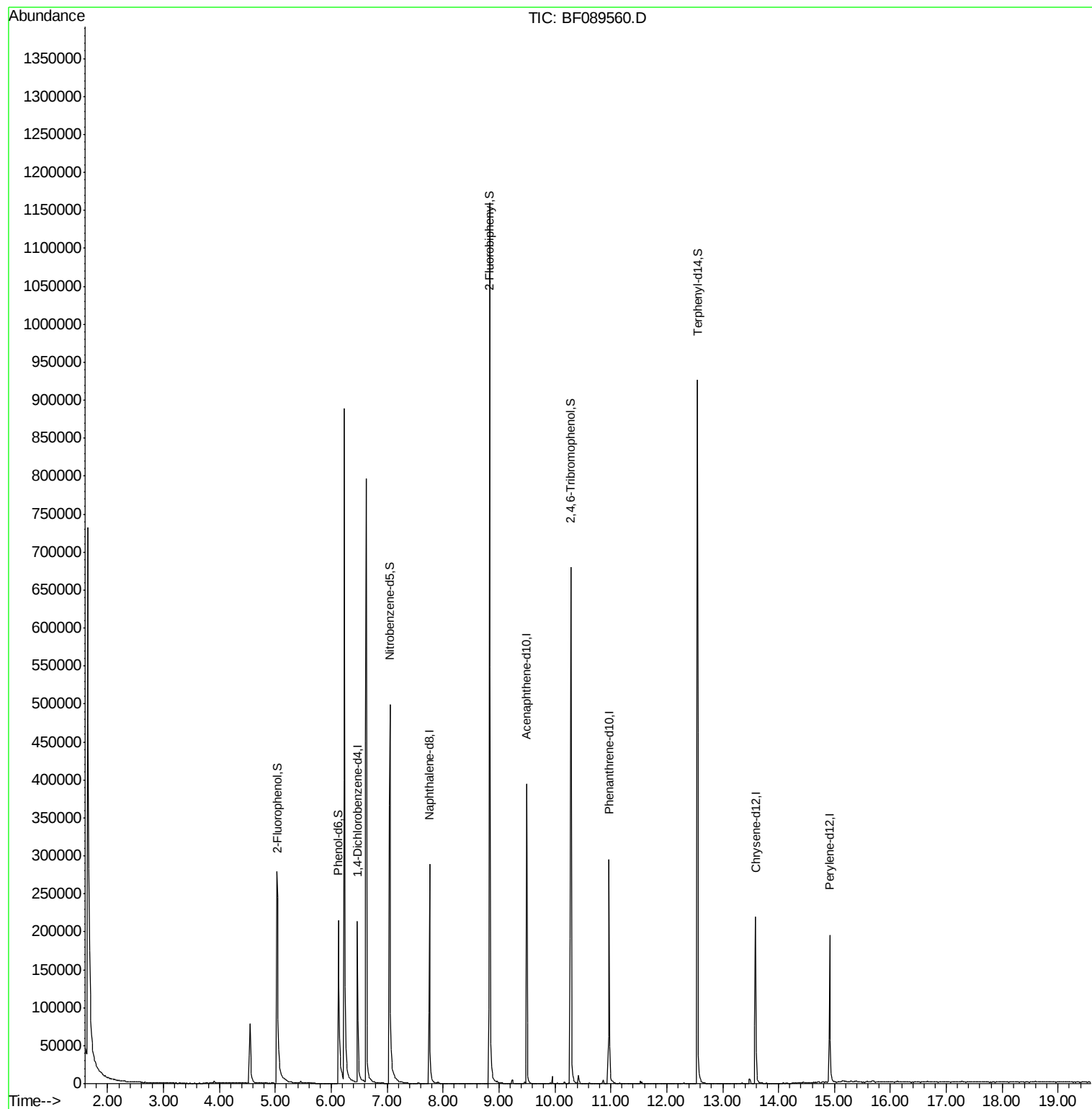
Target Compounds Qvalue

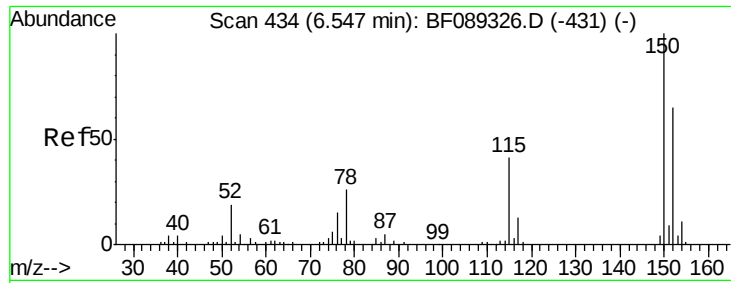
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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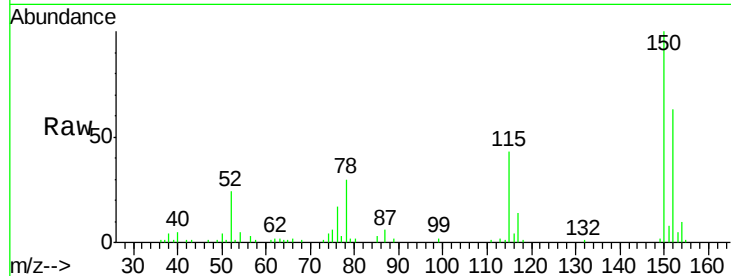


#1

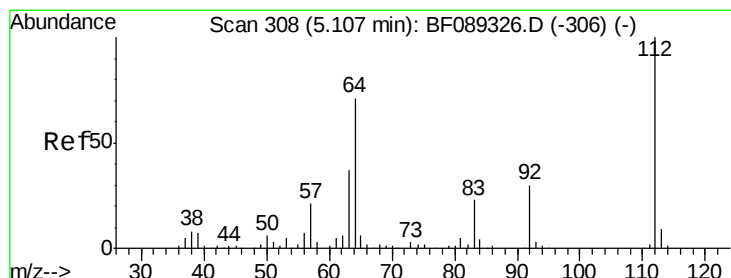
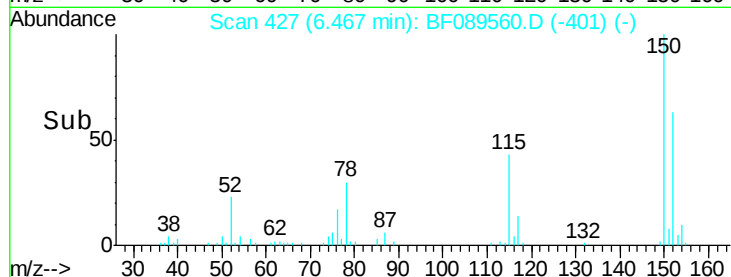
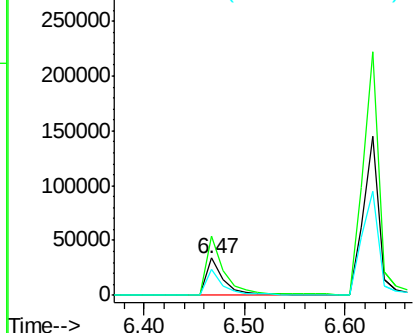
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.47 min Scan# 427  
 Delta R.T. 0.00 min  
 Lab File: BF089560.D  
 Acq: 2 Aug 2016 21:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-56-15.0-19.5

Tot Ion:152 Resp: 44618  
 Ion Ratio Lower Upper  
 152 100  
 150 157.8 129.5 194.3  
 115 68.2 51.4 77.2



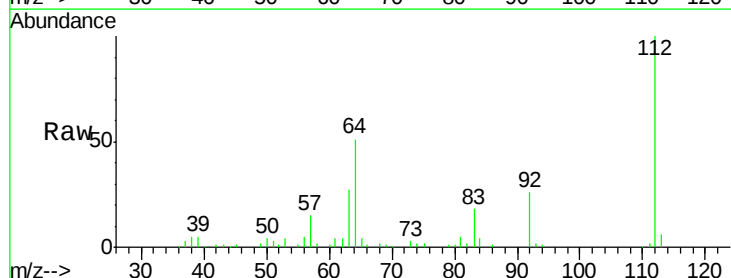
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



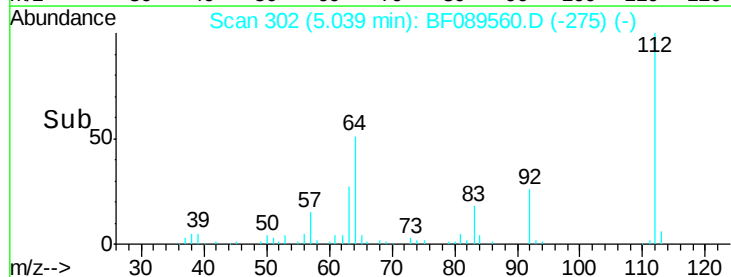
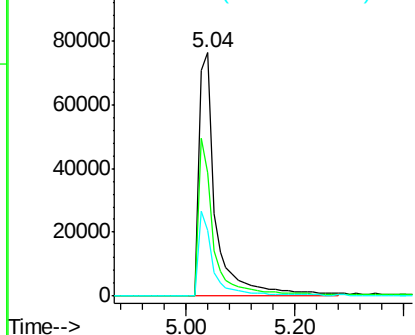
#5

2-Fluorophenol  
 Concen: 58.43 ng  
 RT: 5.04 min Scan# 302  
 Delta R.T. 0.01 min  
 Lab File: BF089560.D  
 Acq: 2 Aug 2016 21:40

Tgt Ion:112 Resp: 163276  
 Ion Ratio Lower Upper  
 112 100  
 64 50.8 55.0 82.6#  
 63 26.8 29.4 44.2#



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: 39.23 ng

RT: 6.12 min Scan# 397

Delta R.T. -0.01 min

Lab File: BF089560.D

Acq: 2 Aug 2016 21:40

Instrument :

BNA\_F

ClientSampleId :

GW-56-15.0-19.5

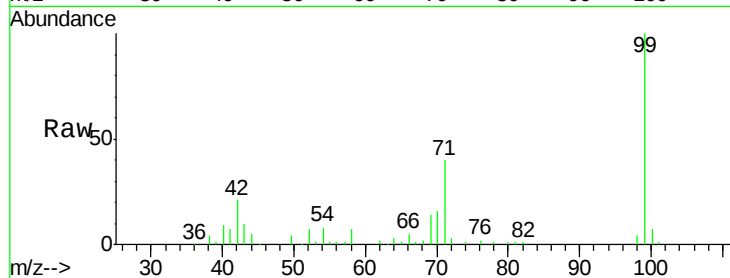
Tot Ion: 99 Resp: 144878

Ion Ratio Lower Upper

99 100

42 20.5 13.6 20.4#

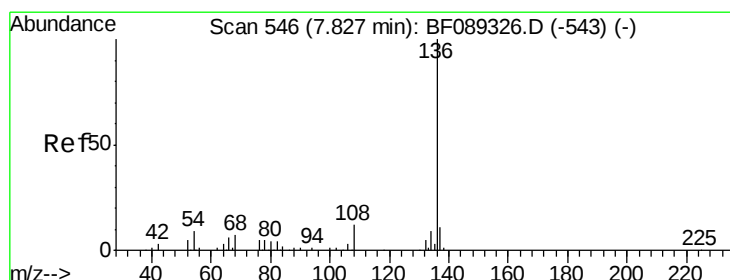
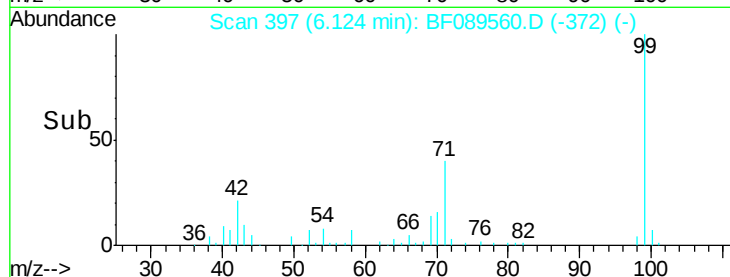
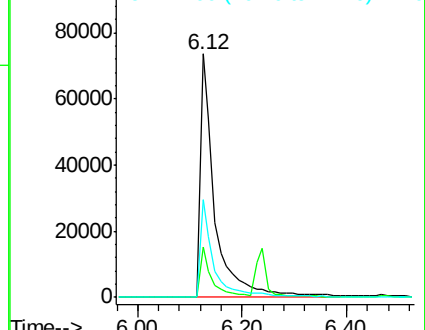
71 40.0 29.4 44.2



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.76 min Scan# 540

Delta R.T. 0.00 min

Lab File: BF089560.D

Acq: 2 Aug 2016 21:40

Tgt Ion: 136 Resp: 172071

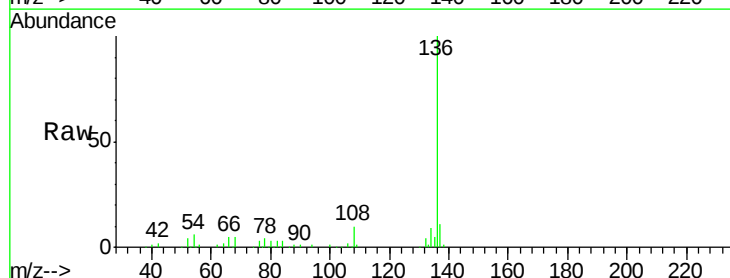
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 6.0 7.0 10.4#

68 4.6 4.9 7.3#

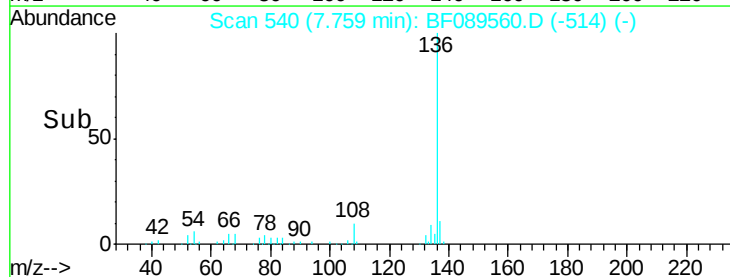
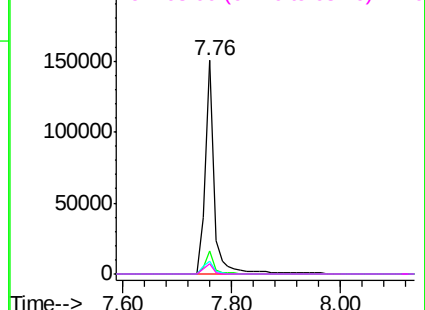


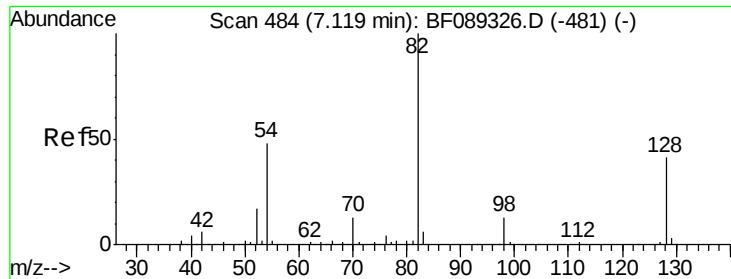
Abundance Ion 136.00 (135.70 to 136.70): E

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

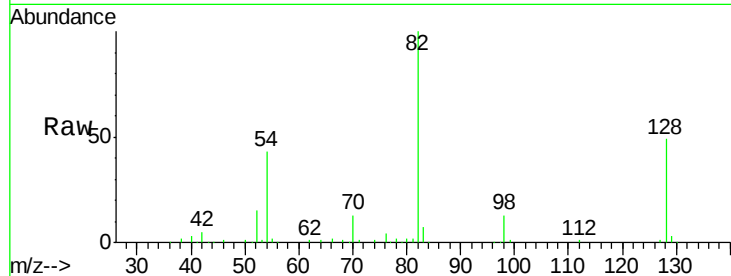




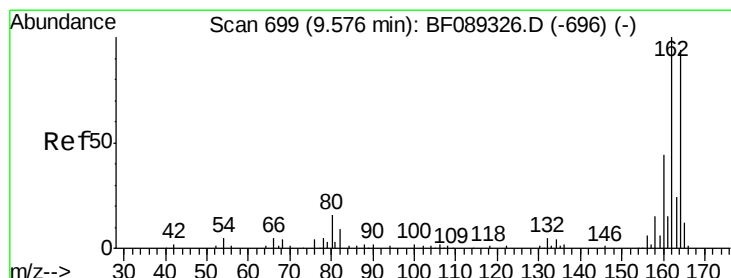
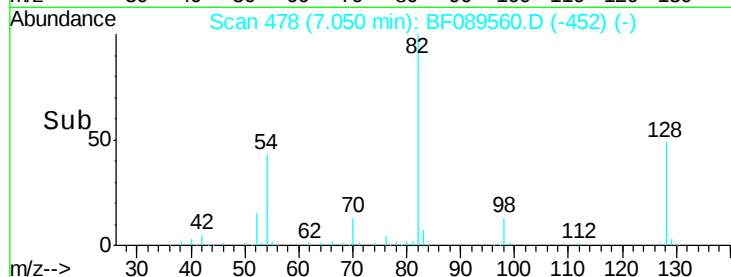
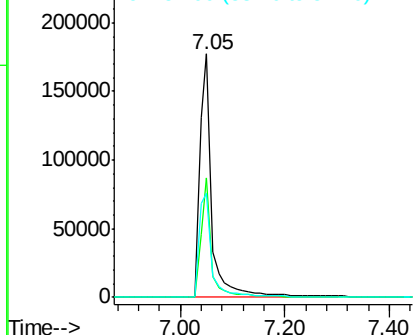
#23  
 Nitrobenzene-d5  
 Concen: 98.00 ng  
 RT: 7.05 min Scan# 478  
 Delta R.T. 0.00 min  
 Lab File: BF089560.D  
 Acq: 2 Aug 2016 21:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-56-15.0-19.5

Tot Ion: 82 Resp: 285686  
 Ion Ratio Lower Upper  
 82 100  
 128 48.9 32.5 48.7#  
 54 42.9 38.8 58.2

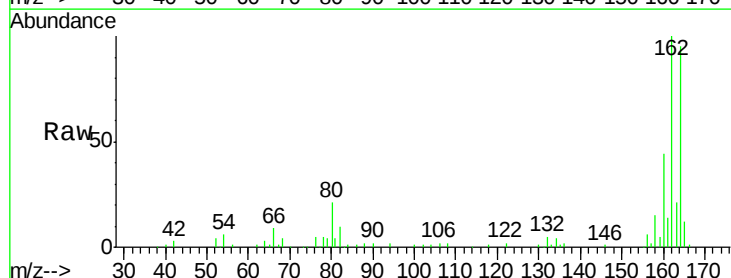


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

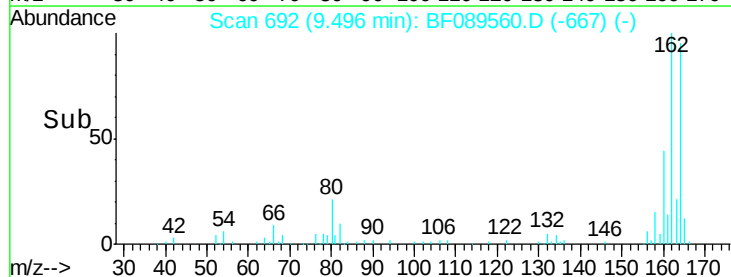
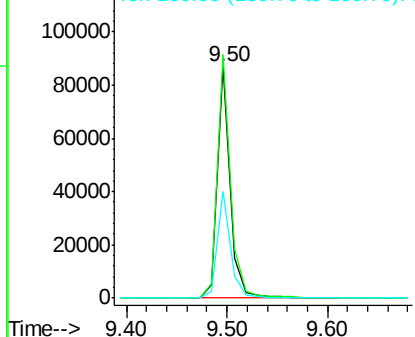


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.50 min Scan# 692  
 Delta R.T. -0.01 min  
 Lab File: BF089560.D  
 Acq: 2 Aug 2016 21:40

Tgt Ion: 164 Resp: 77376  
 Ion Ratio Lower Upper  
 164 100  
 162 104.9 83.7 125.5  
 160 46.0 37.8 56.6



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

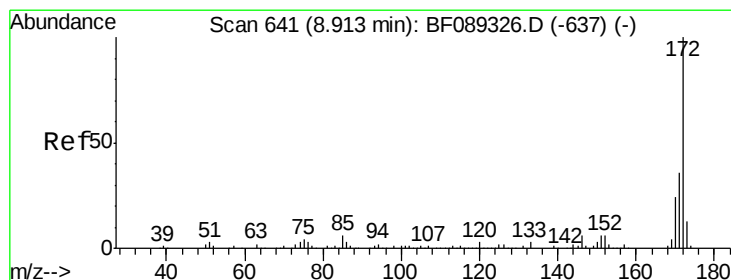
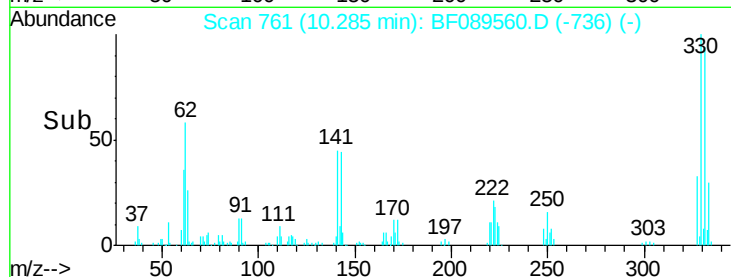
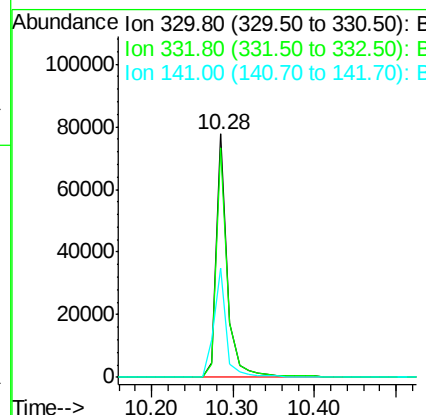
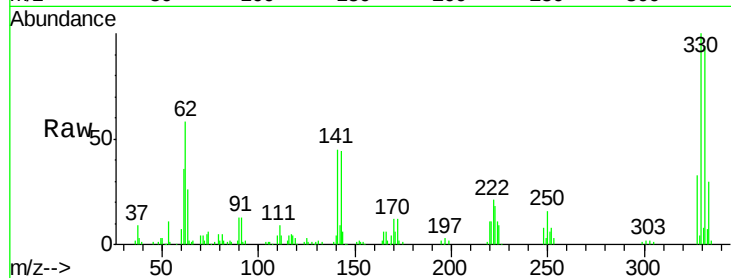




#41  
 2,4,6-Tribromophenol  
 Concen: 118.54 ng  
 RT: 10.28 min Scan# 761  
 Delta R.T. -0.01 min  
 Lab File: BF089560.D  
 Acq: 2 Aug 2016 21:40

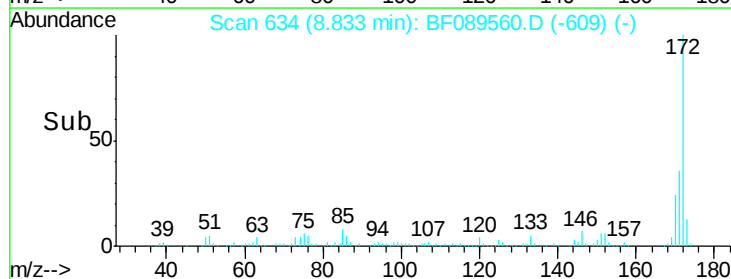
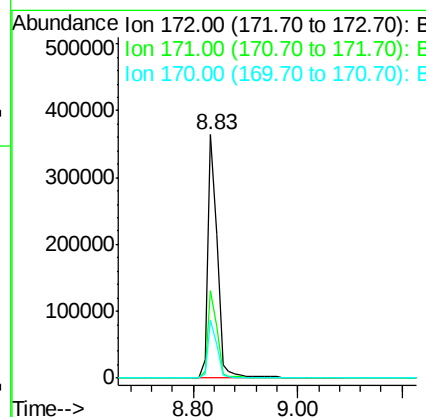
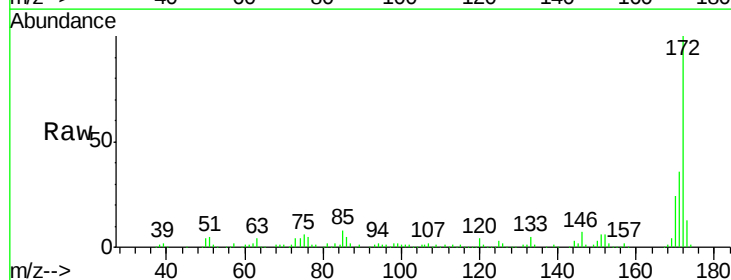
Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-56-15.0-19.5

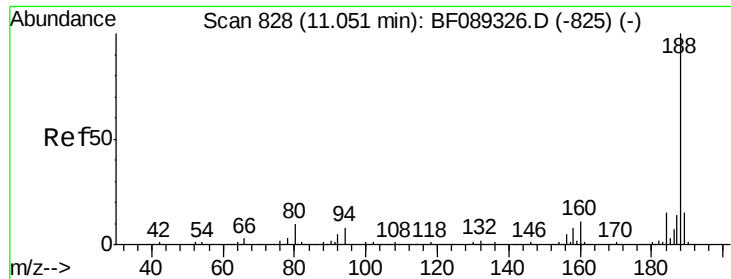
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.4  | 76.8  | 115.2 |
| 141     | 49.3  | 37.3  | 55.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 87.43 ng  
 RT: 8.83 min Scan# 634  
 Delta R.T. -0.01 min  
 Lab File: BF089560.D  
 Acq: 2 Aug 2016 21:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.2  | 43.8  |
| 170     | 23.6  | 19.2  | 28.8  |

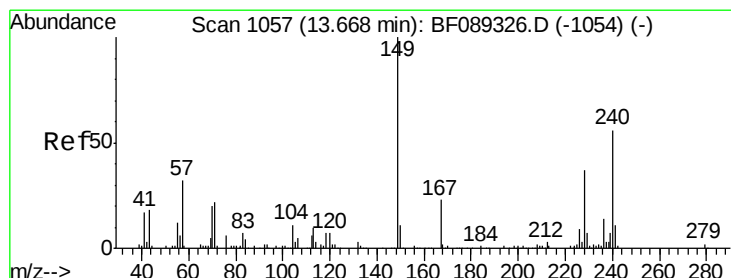
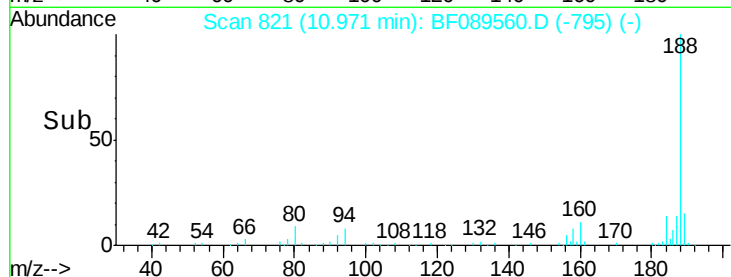
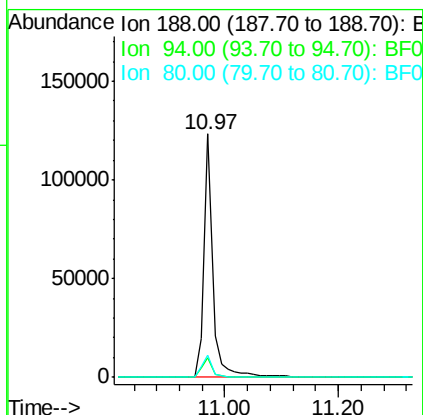
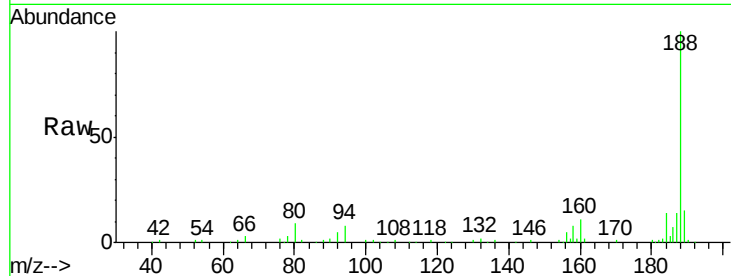




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.97 min Scan# 821  
Delta R.T. 0.00 min  
Lab File: BF089560.D  
Acq: 2 Aug 2016 21:40

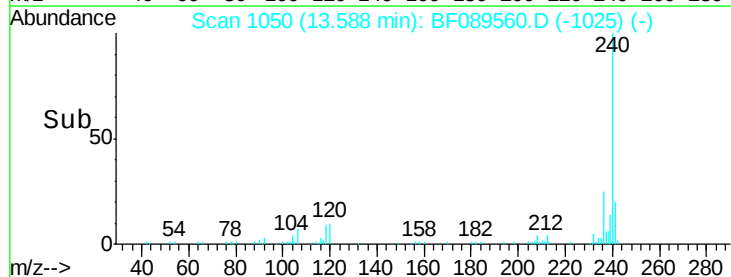
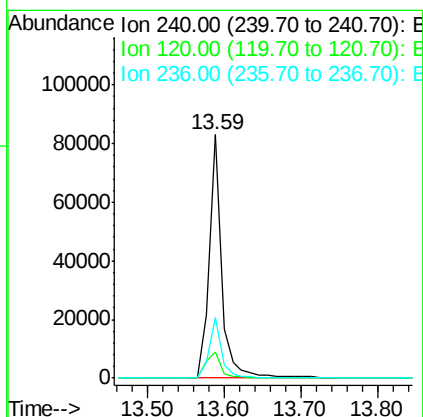
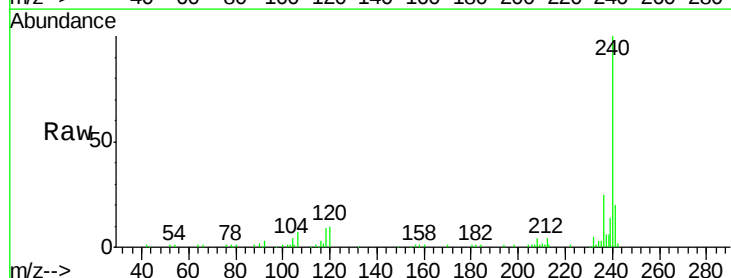
Instrument :  
BNA\_F  
ClientSampleId :  
GW-56-15.0-19.5

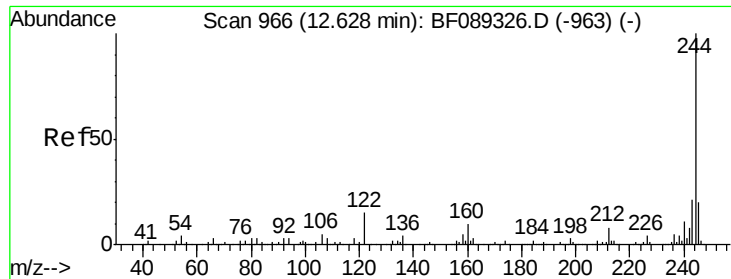
Tot Ion:188 Resp: 129551  
Ion Ratio Lower Upper  
188 100  
94 8.3 6.5 9.7  
80 9.2 7.2 10.8



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.59 min Scan# 1050  
Delta R.T. -0.01 min  
Lab File: BF089560.D  
Acq: 2 Aug 2016 21:40

Tgt Ion:240 Resp: 93413  
Ion Ratio Lower Upper  
240 100  
120 10.5 9.1 13.7  
236 24.7 20.6 30.8





#78

Terphenyl-d14

Concen: 87.17 ng

RT: 12.55 min Scan# 959

Delta R.T. -0.01 min

Lab File: BF089560.D

Acq: 2 Aug 2016 21:40

Instrument :

BNA\_F

ClientSampleId :

GW-56-15.0-19.5

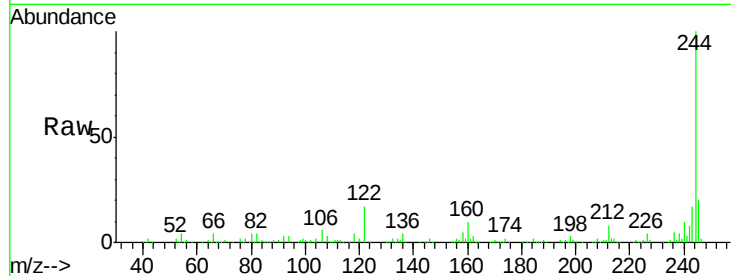
Tot Ion:244 Resp: 347903

Ion Ratio Lower Upper

244 100

212 8.1 6.5 9.7

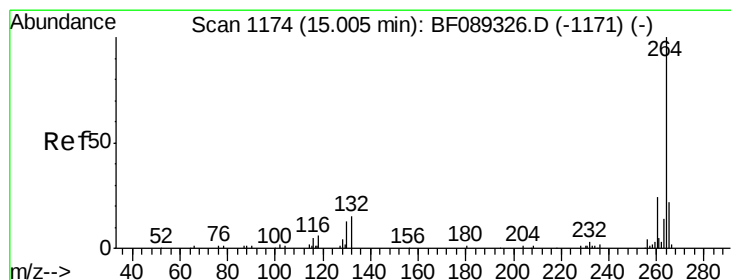
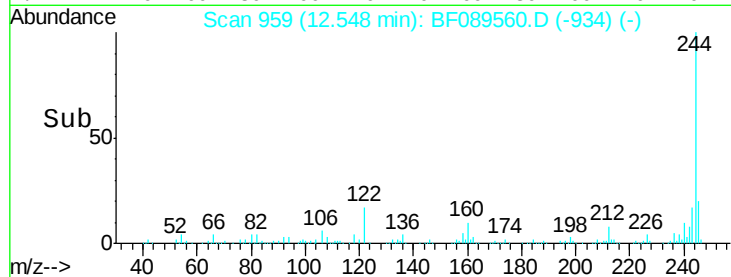
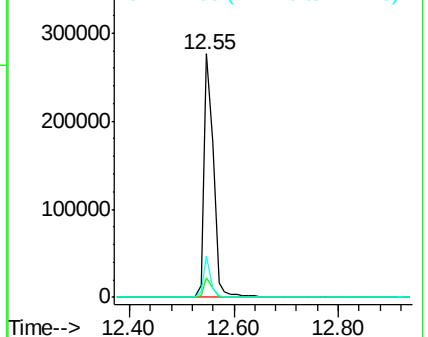
122 17.0 11.4 17.0



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

Perylene-d12

Concen: 20.00 ng

RT: 14.91 min Scan# 1166

Delta R.T. -0.01 min

Lab File: BF089560.D

Acq: 2 Aug 2016 21:40

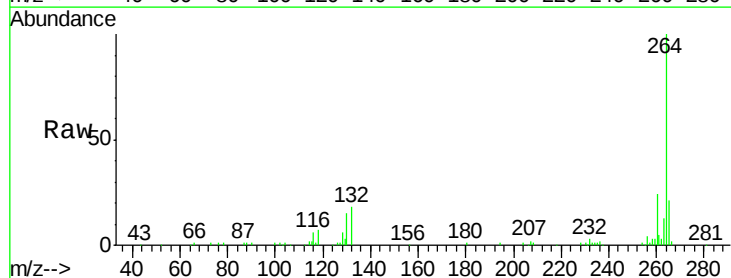
Tgt Ion:264 Resp: 85244

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

265 21.1 17.5 26.3



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

