

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050116\  
 Data File : BF086611.D  
 Acq On : 2 May 2016 11:10  
 Operator : UM/SJ  
 Sample : H2686-15  
 Misc :  
 ALS Vial : 94 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-1B-CS-4(16-32FTBGS)

Quant Time: May 02 16:21:59 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 27 14:20:52 2016  
 Response via : Initial Calibration

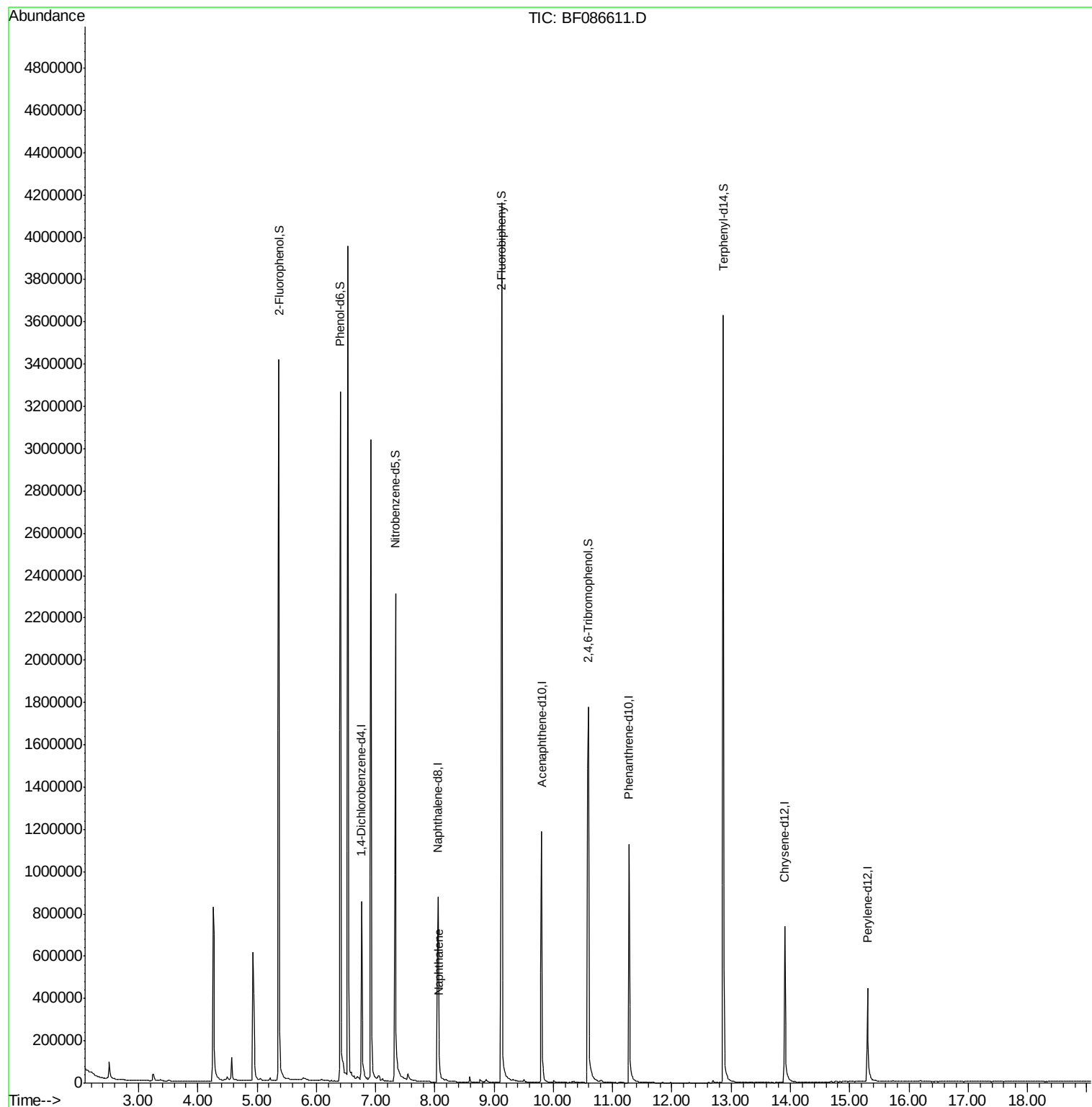
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.76  | 152  | 137154   | 20.00  | ng    | -0.05        |
| 21) Naphthalene-d8          | 8.05  | 136  | 569835   | 20.00  | ng    | -0.05        |
| 38) Acenaphthene-d10        | 9.80  | 164  | 273639   | 20.00  | ng    | -0.05        |
| 63) Phenanthrene-d10        | 11.28 | 188  | 515515   | 20.00  | ng    | -0.05        |
| 75) Chrysene-d12            | 13.91 | 240  | 350595   | 20.00  | ng    | -0.06        |
| 86) Perylene-d12            | 15.30 | 264  | 234585   | 20.00  | ng    | -0.06        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.37  | 112  | 979708   | 123.21 | ng    | -0.02        |
| 7) Phenol-d6                | 6.41  | 99   | 1238998  | 111.64 | ng    | -0.03        |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 890680   | 84.25  | ng    | -0.05        |
| 41) 2,4,6-Tribromophenol    | 10.59 | 330  | 335318   | 116.20 | ng    | -0.05        |
| 44) 2-Fluorobiphenyl        | 9.13  | 172  | 1320782  | 84.33  | ng    | -0.05        |
| 78) Terphenyl-d14           | 12.87 | 244  | 1196435  | 75.18  | ng    | -0.05        |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 8.06  | 128  | 76609    | 2.64   | ng    | Qvalue<br>97 |

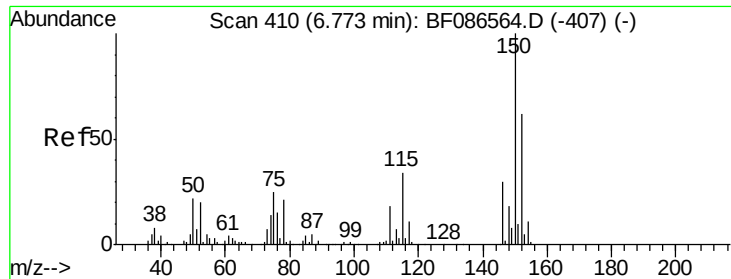
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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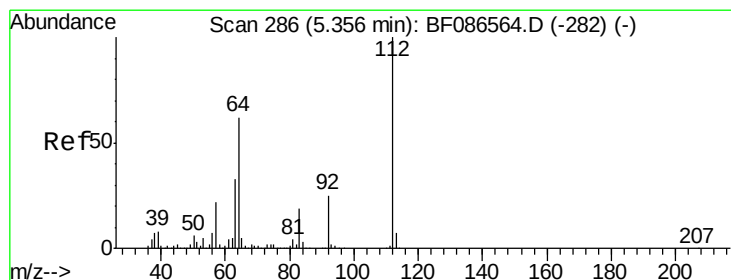
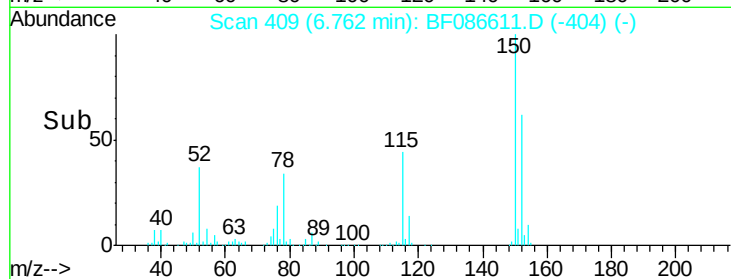
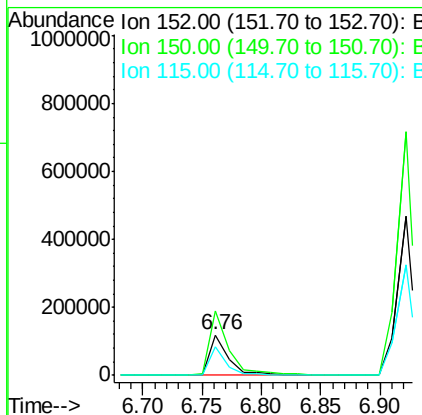
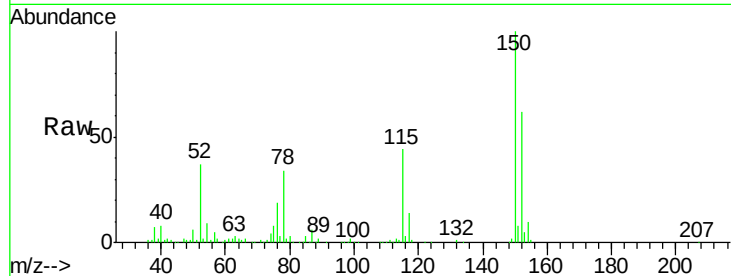


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.76 min Scan# 409  
 Delta R.T. -0.05 min  
 Lab File: BF086611.D  
 Acq: 2 May 2016 11:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-1B-CS-4(16-32FTBGS)

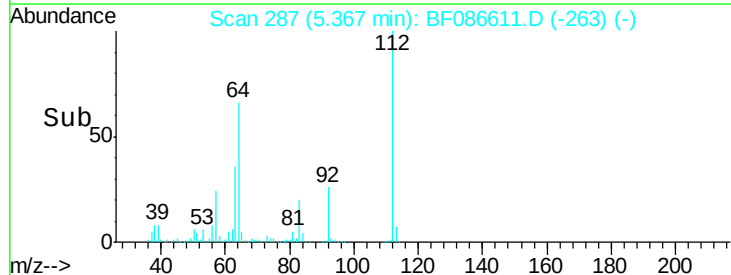
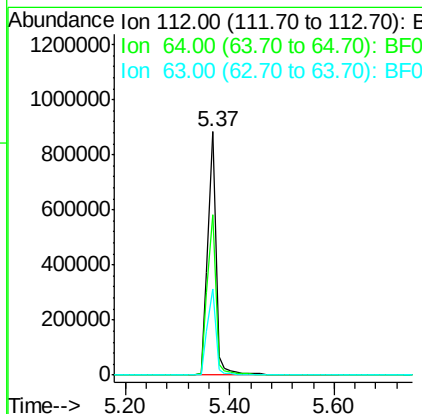
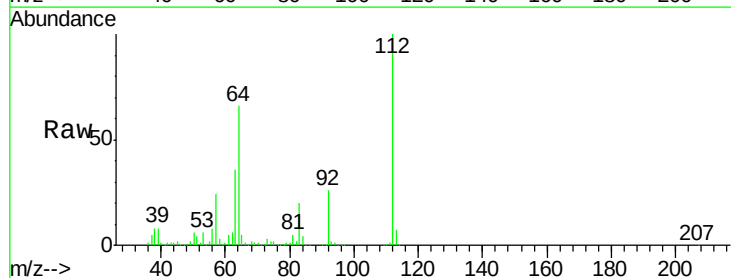
Tgt Ion:152 Resp: 137154  
 Ion Ratio Lower Upper  
 152 100  
 150 160.9 125.8 188.6  
 115 70.9 51.5 77.3

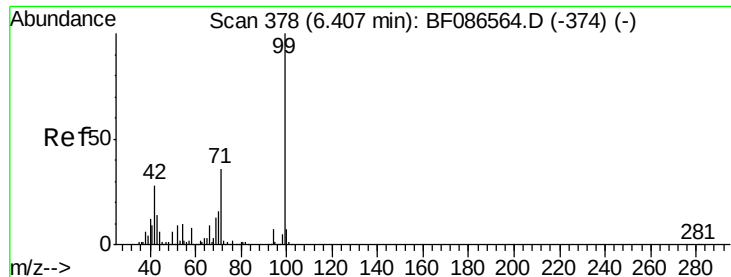


#5

2-Fluorophenol  
 Concen: 123.21 ng  
 RT: 5.37 min Scan# 287  
 Delta R.T. -0.02 min  
 Lab File: BF086611.D  
 Acq: 2 May 2016 11:10

Tgt Ion:112 Resp: 979708  
 Ion Ratio Lower Upper  
 112 100  
 64 65.8 52.1 78.1  
 63 35.5 25.7 38.5





#7

Phenol-d6

Concen: 111.64 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.03 min

Lab File: BF086611.D

Acq: 2 May 2016 11:10

Instrument :

BNA\_F

ClientSampleId :

26WARD-1B-CS-4(16-32FTBGS)

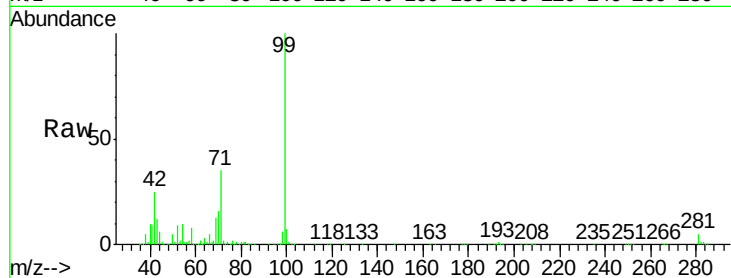
Tgt Ion: 99 Resp: 1238998

Ion Ratio Lower Upper

99 100

42 25.0 13.6 20.4#

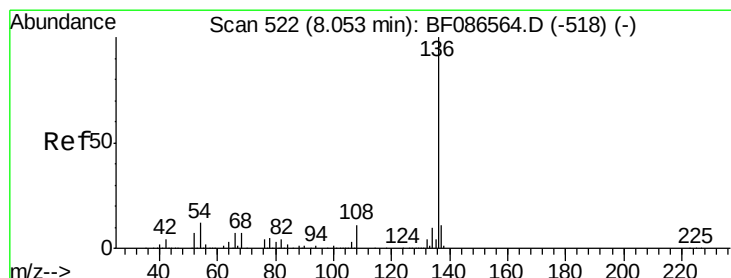
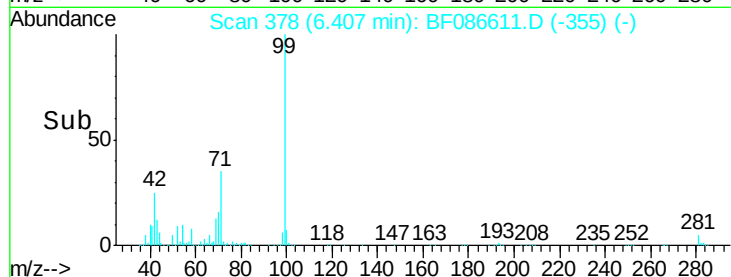
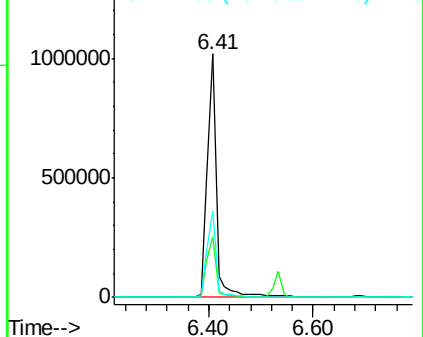
71 35.4 24.6 36.8



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: 8.05 min Scan# 522

Delta R.T. -0.05 min

Lab File: BF086611.D

Acq: 2 May 2016 11:10

Tgt Ion: 136 Resp: 569835

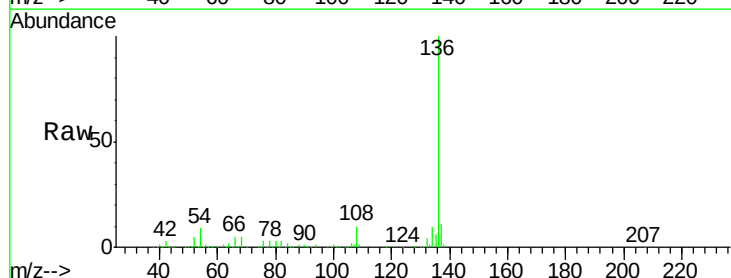
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 8.8 5.0 7.4#

68 5.1 4.4 6.6

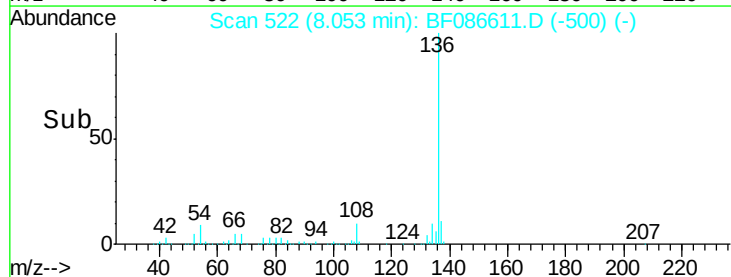
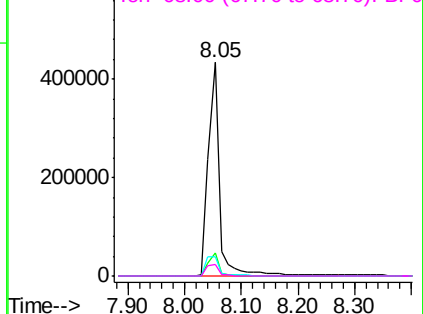


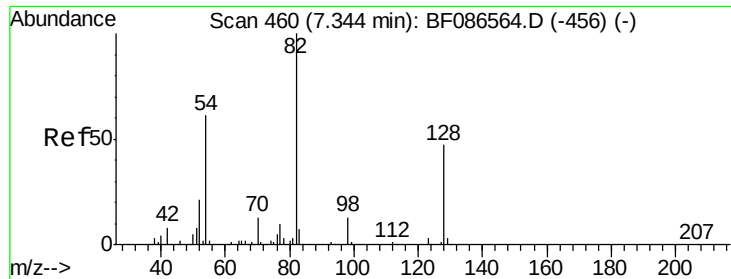
Abundance Ion 136.00 (135.70 to 136.70): E

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

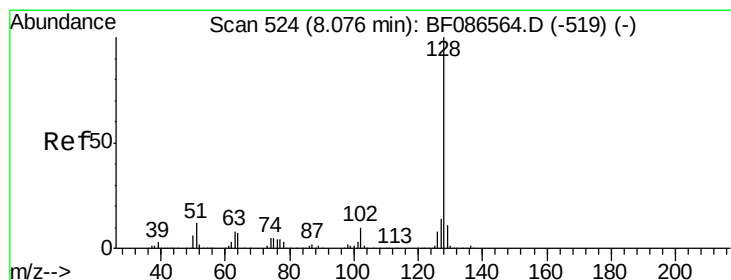
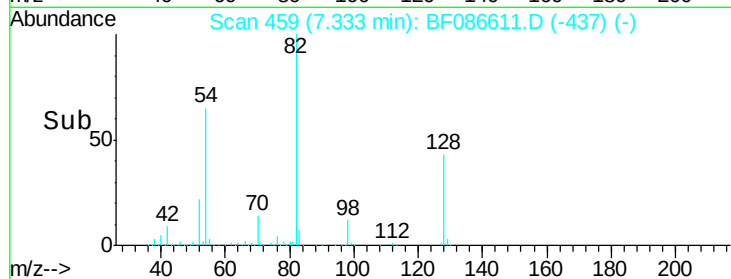
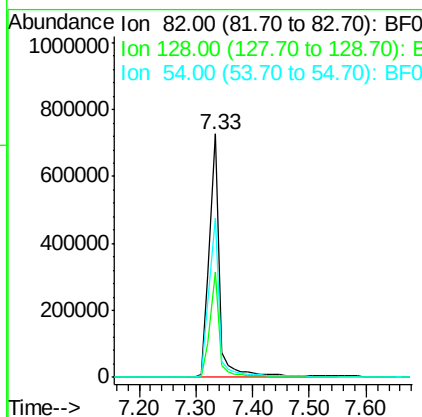
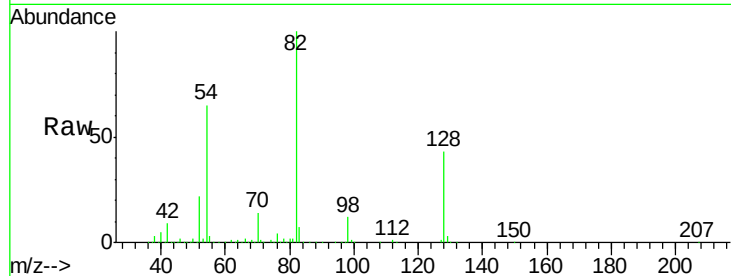




#23  
 Nitrobenzene-d5  
 Concen: 84.25 ng  
 RT: 7.33 min Scan# 459  
 Delta R.T. -0.05 min  
 Lab File: BF086611.D  
 Acq: 2 May 2016 11:10

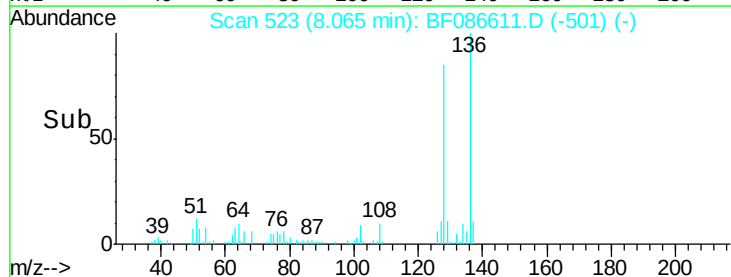
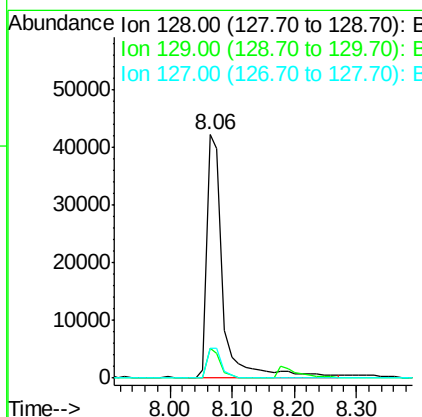
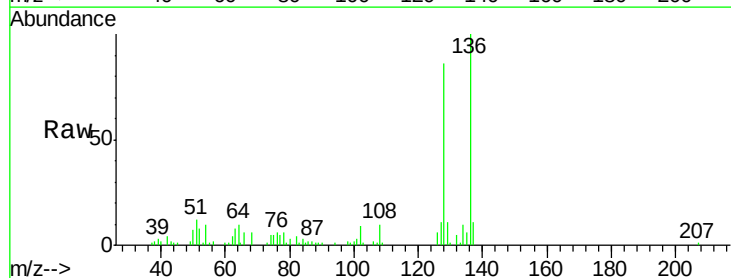
Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-1B-CS-4(16-32FTBGS)

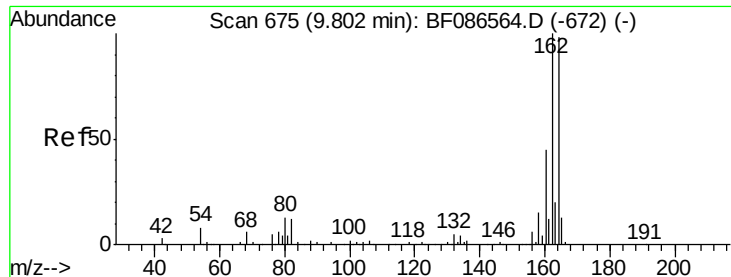
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.5  | 40.6  | 61.0  |
| 54      | 65.4  | 38.1  | 57.1# |



#31  
 Naphthalene  
 Concen: 2.64 ng  
 RT: 8.06 min Scan# 523  
 Delta R.T. -0.05 min  
 Lab File: BF086611.D  
 Acq: 2 May 2016 11:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.3  | 8.6   | 13.0  |
| 127     | 12.5  | 10.8  | 16.2  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.05 min

Lab File: BF086611.D

Acq: 2 May 2016 11:10

Instrument :

BNA\_F

ClientSampleId :

26WARD-1B-CS-4(16-32FTBGS)

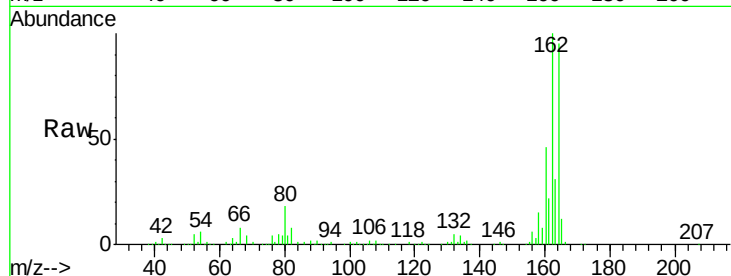
Tgt Ion:164 Resp: 273639

Ion Ratio Lower Upper

164 100

162 104.8 82.8 124.2

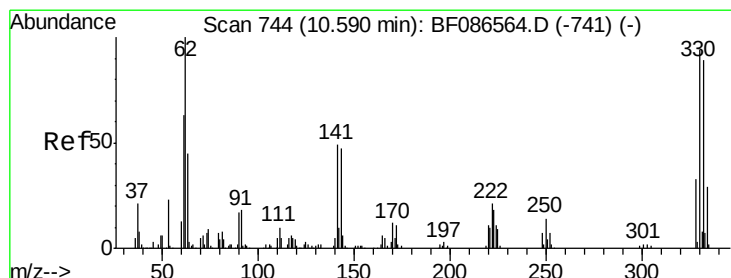
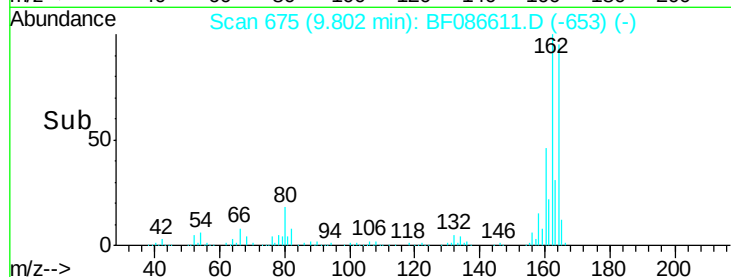
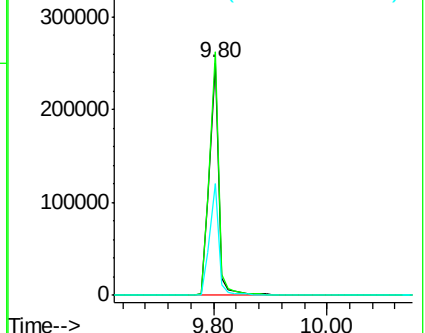
160 47.9 36.9 55.3



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: 116.20 ng

RT: 10.59 min Scan# 744

Delta R.T. -0.05 min

Lab File: BF086611.D

Acq: 2 May 2016 11:10

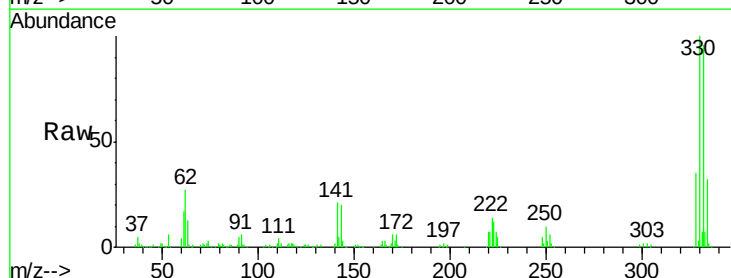
Tgt Ion:330 Resp: 335318

Ion Ratio Lower Upper

330 100

332 95.6 79.0 118.4

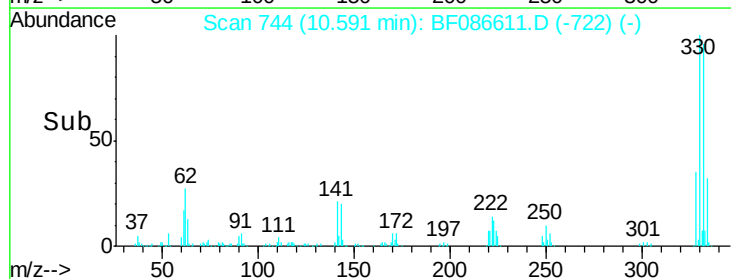
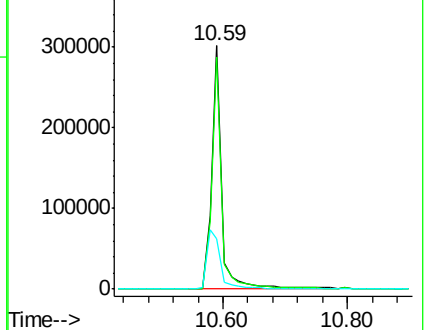
141 34.1 31.2 46.8

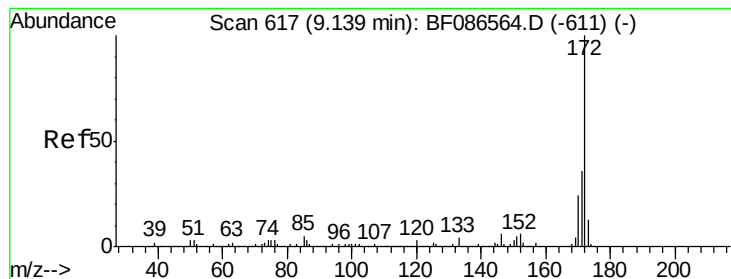


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

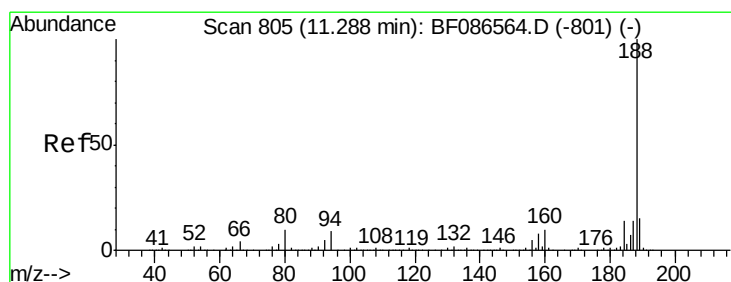
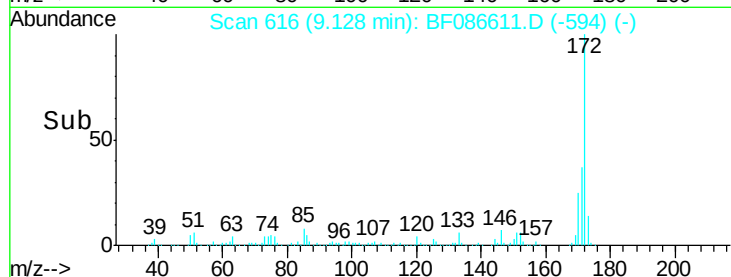
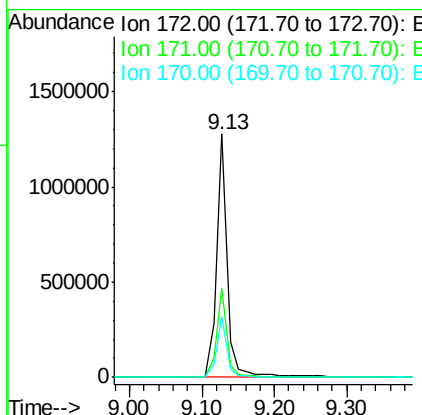
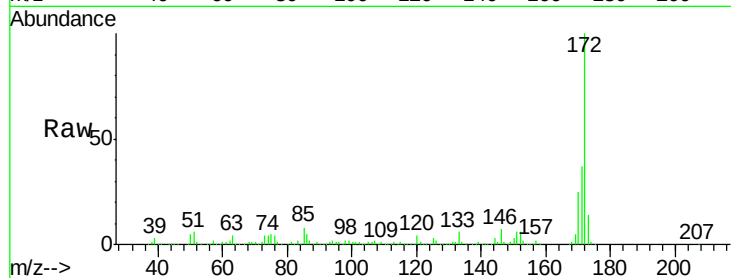




#44  
 2-Fluorobiphenyl  
 Concen: 84.33 ng  
 RT: 9.13 min Scan# 616  
 Delta R.T. -0.05 min  
 Lab File: BF086611.D  
 Acq: 2 May 2016 11:10

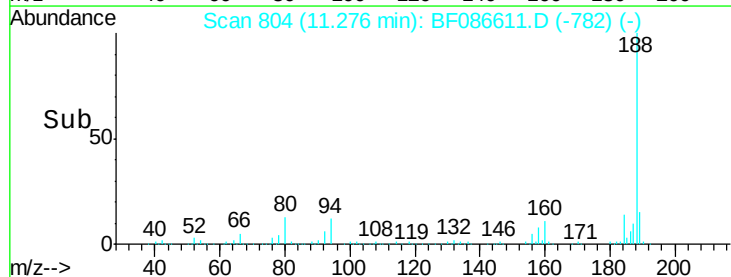
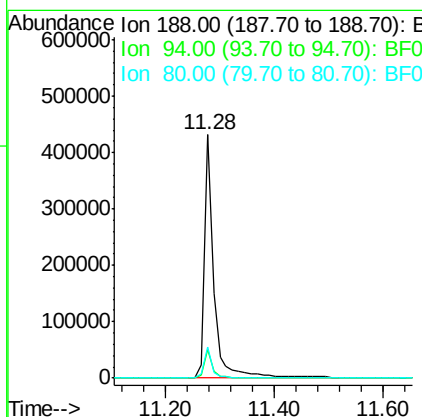
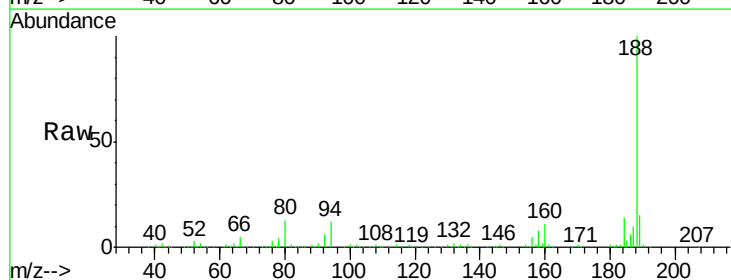
Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-1B-CS-4(16-32FTBGS)

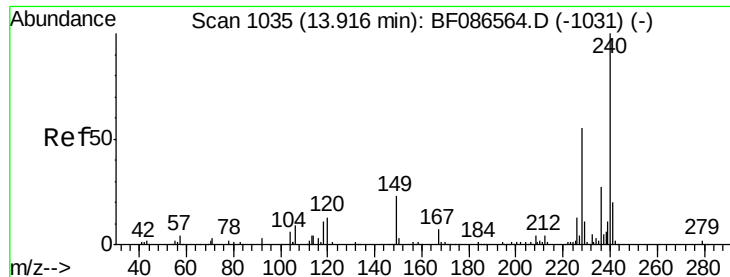
Tgt Ion:172 Resp: 1320782  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.0 43.6  
 170 24.7 19.8 29.8



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.28 min Scan# 804  
 Delta R.T. -0.05 min  
 Lab File: BF086611.D  
 Acq: 2 May 2016 11:10

Tgt Ion:188 Resp: 515515  
 Ion Ratio Lower Upper  
 188 100  
 94 11.9 6.8 10.2#  
 80 12.7 7.1 10.7#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.06 min

Lab File: BF086611.D

Acq: 2 May 2016 11:10

Instrument :

BNA\_F

ClientSampleId :

26WARD-1B-CS-4(16-32FTBGS)

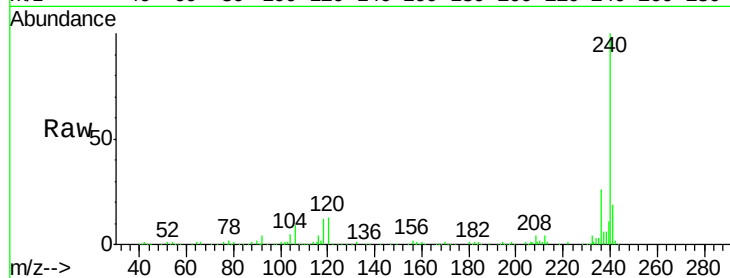
Tgt Ion:240 Resp: 350595

Ion Ratio Lower Upper

240 100

120 13.5 11.2 16.8

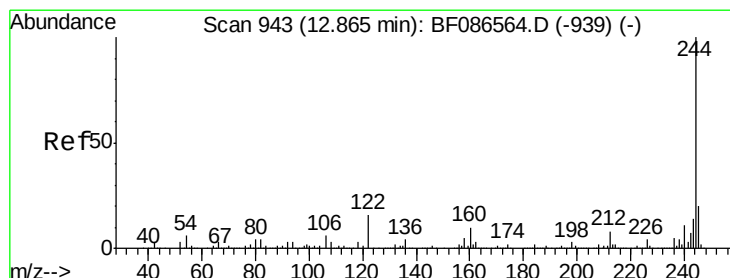
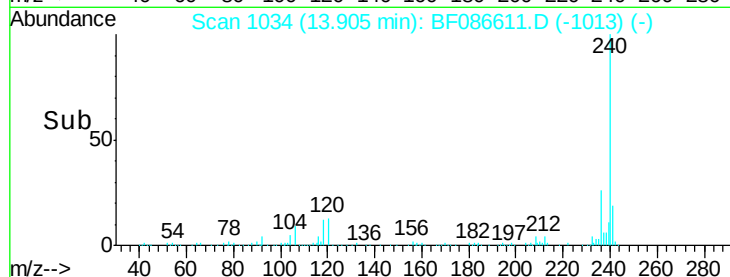
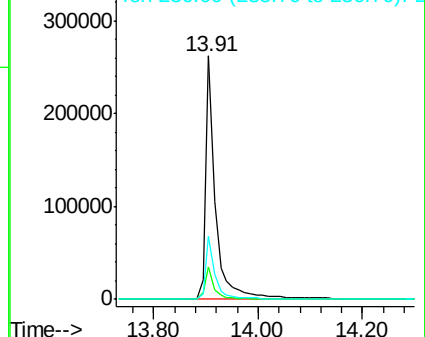
236 25.8 21.2 31.8



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: 75.18 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.05 min

Lab File: BF086611.D

Acq: 2 May 2016 11:10

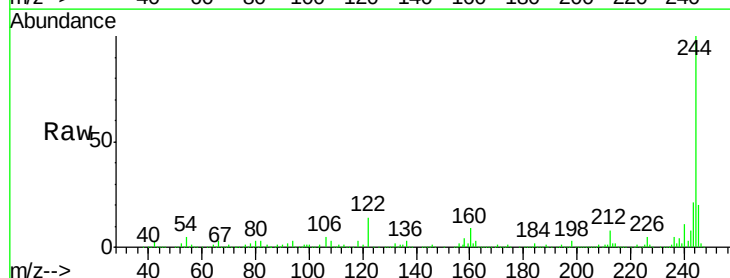
Tgt Ion:244 Resp: 1196435

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

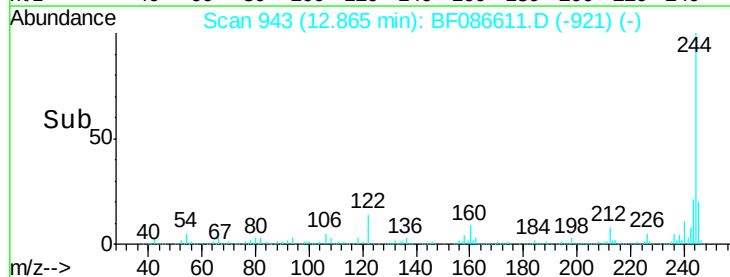
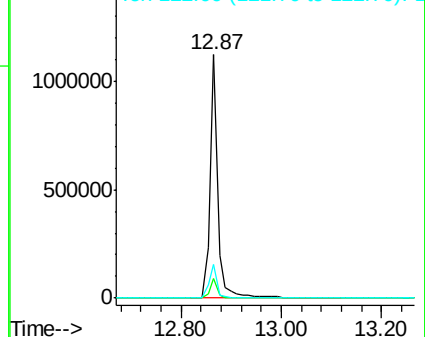
122 13.6 12.0 18.0



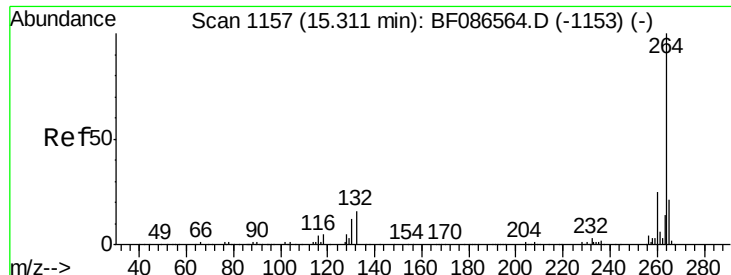
Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.30 min Scan# 1156  
Delta R.T. -0.06 min  
Lab File: BF086611.D  
Acq: 2 May 2016 11:10

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-1B-CS-4(16-32FTBGS)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.0  | 19.5  | 29.3  |
| 265     | 20.6  | 17.3  | 25.9  |

