

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF082316\  
 Data File : BF089841.D  
 Acq On : 23 Aug 2016 18:05  
 Operator : UM/SJ  
 Sample : H4547-18  
 Misc :  
 ALS Vial : 58 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-13(2-2.5)

Quant Time: Aug 25 13:54:56 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 19 14:02:57 2016  
 Response via : Initial Calibration

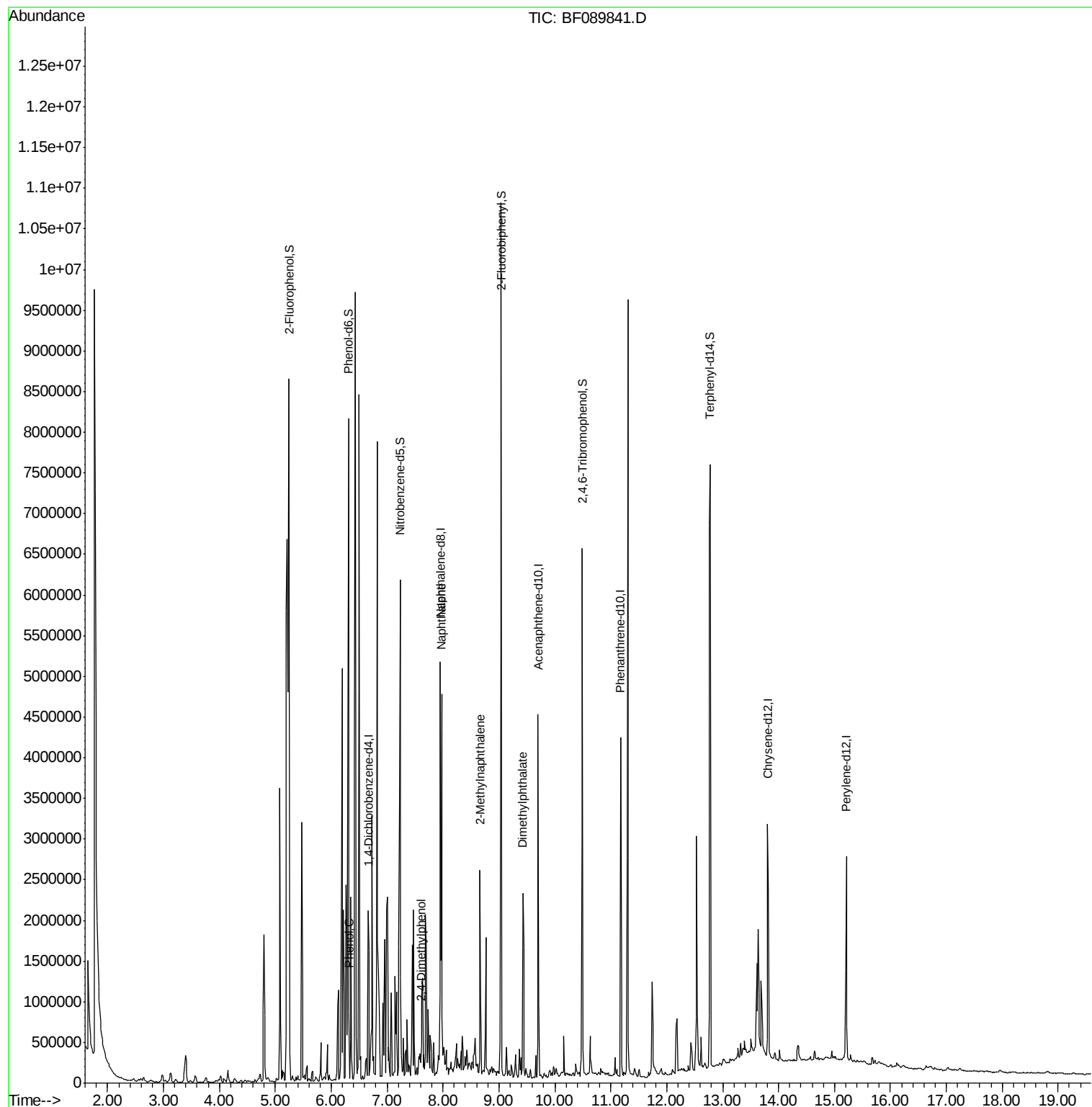
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.66  | 152  | 440682   | 20.00  | ng    | -0.02       |
| 21) Naphthalene-d8          | 7.95  | 136  | 1815933  | 20.00  | ng    | -0.02       |
| 38) Acenaphthene-d10        | 9.70  | 164  | 848042   | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10        | 11.18 | 188  | 1475635  | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12            | 13.81 | 240  | 1296332  | 20.00  | ng    | -0.07       |
| 86) Perylene-d12            | 15.21 | 264  | 1052480  | 20.00  | ng    | -0.16       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.24  | 112  | 2839871  | 110.51 | ng    | -0.01       |
| 7) Phenol-d6                | 6.31  | 99   | 3531256  | 111.94 | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 7.23  | 82   | 2021705  | 69.16  | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol    | 10.49 | 330  | 858176   | 106.48 | ng    | -0.01       |
| 44) 2-Fluorobiphenyl        | 9.04  | 172  | 3826368  | 79.30  | ng    | -0.01       |
| 78) Terphenyl-d14           | 12.78 | 244  | 3299341  | 57.58  | ng    | -0.01       |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 6.32  | 94   | 183159   | 4.95   | ng    | Qvalue # 76 |
| 27) 2,4-Dimethylphenol      | 7.61  | 122  | 61749    | 2.09   | ng    | 89          |
| 31) Naphthalene             | 7.98  | 128  | 1826284  | 21.52  | ng    | 100         |
| 37) 2-Methylnaphthalene     | 8.66  | 142  | 745761   | 13.58  | ng    | 97          |
| 49) Dimethylphthalate       | 9.43  | 163  | 1307555  | 21.90  | ng    | 99          |

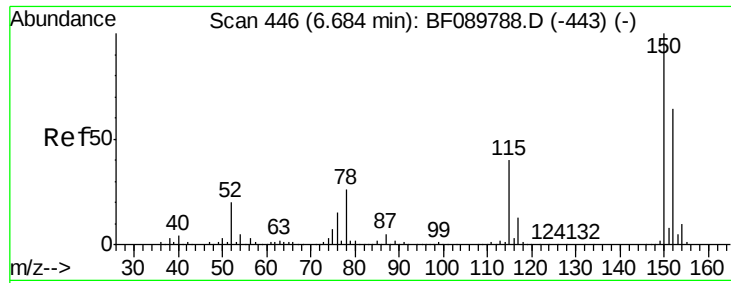
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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D-13(2-2.5)

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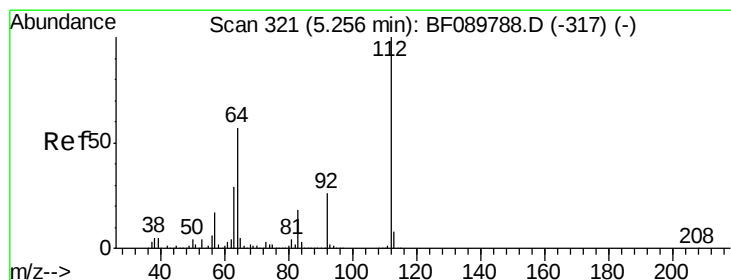
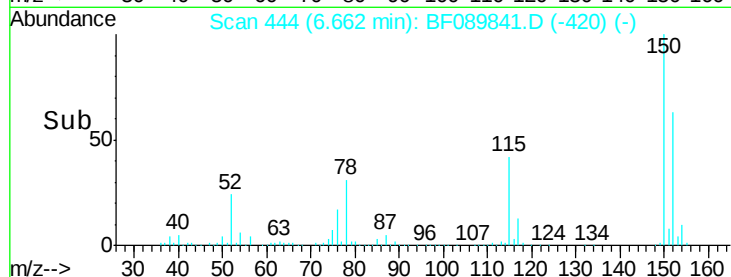
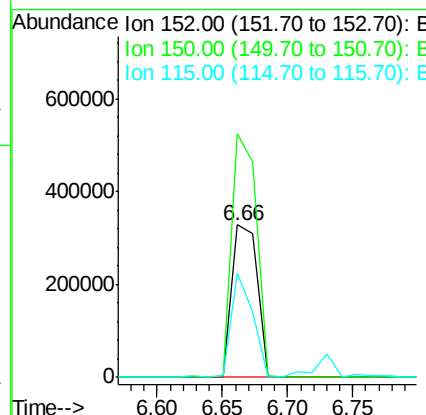
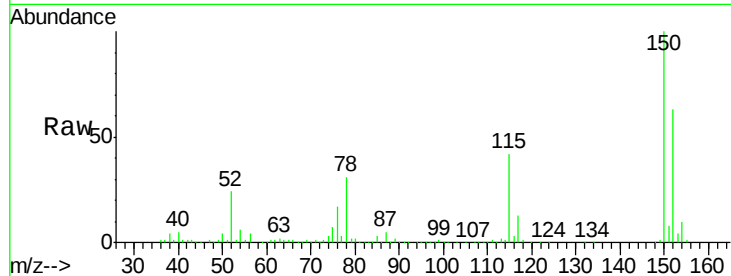




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.66 min Scan# 444  
 Delta R.T. -0.02 min  
 Lab File: BF089841.D  
 Acq: 23 Aug 2016 18:05

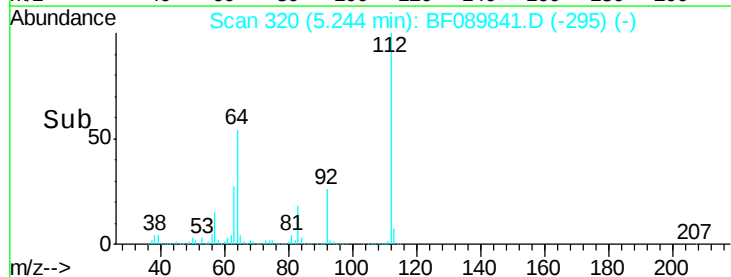
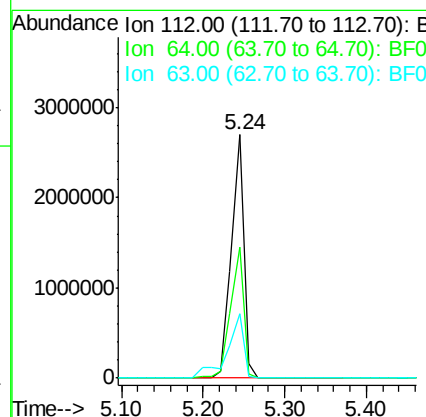
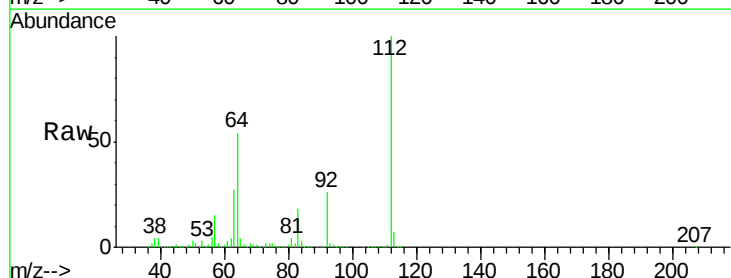
Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-13(2-2.5)

Tgt Ion:152 Resp: 440682  
 Ion Ratio Lower Upper  
 152 100  
 150 159.9 125.3 187.9  
 115 67.9 40.9 61.3#



#5  
 2-Fluorophenol  
 Concen: 110.51 ng  
 RT: 5.24 min Scan# 320  
 Delta R.T. -0.01 min  
 Lab File: BF089841.D  
 Acq: 23 Aug 2016 18:05

Tgt Ion:112 Resp: 2839871  
 Ion Ratio Lower Upper  
 112 100  
 64 53.9 45.0 67.4  
 63 26.7 23.1 34.7





#7

Phenol-d6

Concen: 111.94 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.01 min

Lab File: BF089841.D

Acq: 23 Aug 2016 18:05

Instrument :

BNA\_F

ClientSampleId :

D-13(2-2.5)

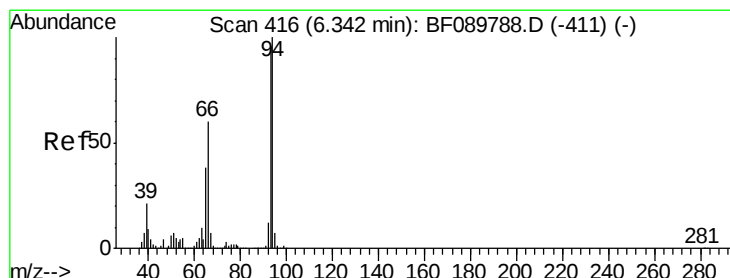
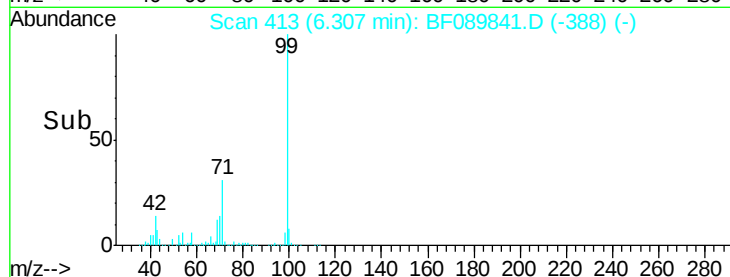
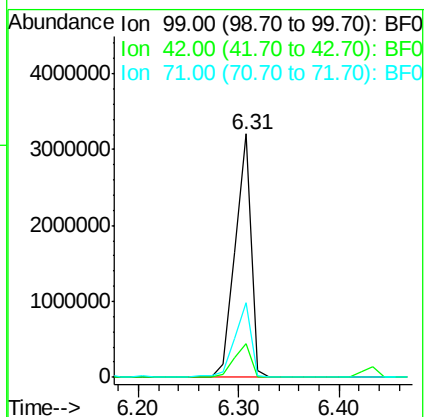
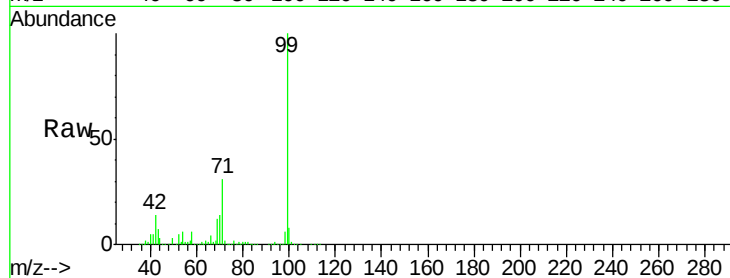
Tgt Ion: 99 Resp: 3531256

Ion Ratio Lower Upper

99 100

42 13.7 12.2 18.4

71 30.6 23.8 35.8



#10

Phenol

Concen: 4.95 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.02 min

Lab File: BF089841.D

Acq: 23 Aug 2016 18:05

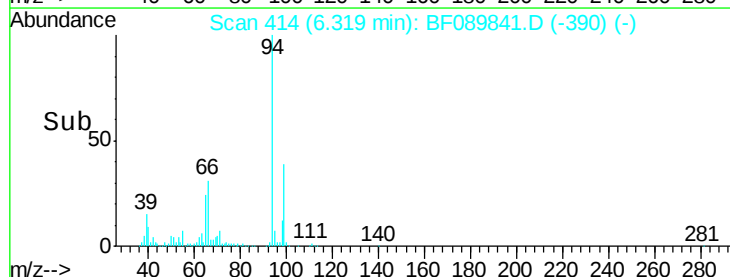
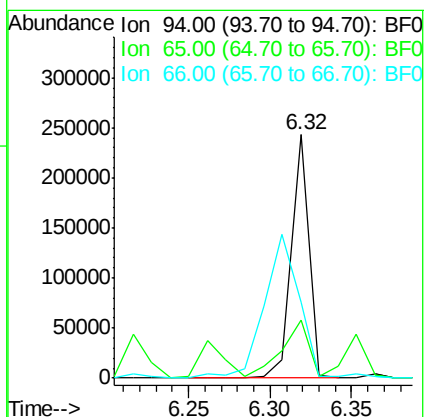
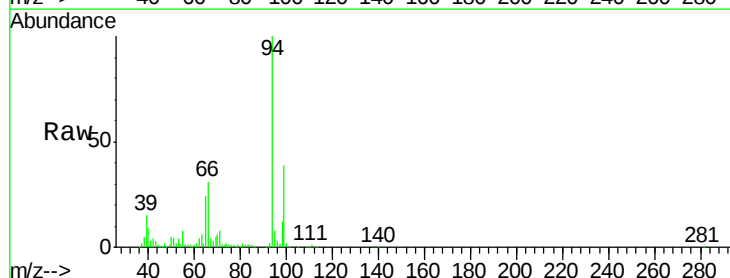
Tgt Ion: 94 Resp: 183159

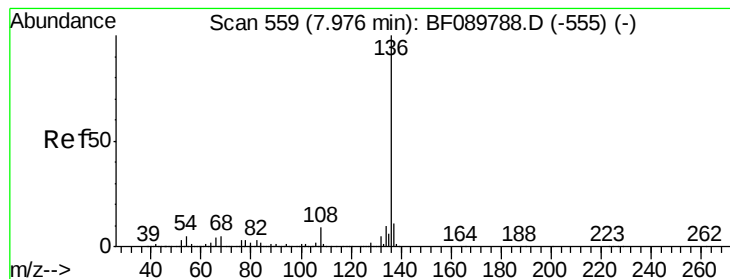
Ion Ratio Lower Upper

94 100

65 23.8 14.0 54.0

66 31.1 31.2 71.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 557

Delta R.T. -0.02 min

Lab File: BF089841.D

Acq: 23 Aug 2016 18:05

Instrument :

BNA\_F

ClientSampleId :

D-13(2-2.5)

Tgt Ion:136 Resp: 1815933

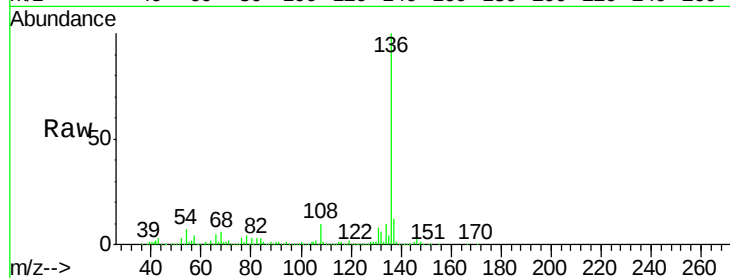
Ion Ratio Lower Upper

136 100

137 11.9 9.2 13.8

54 6.8 7.2 10.8#

68 6.5 5.8 8.8

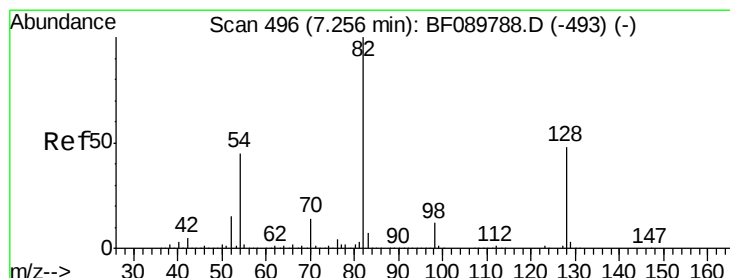
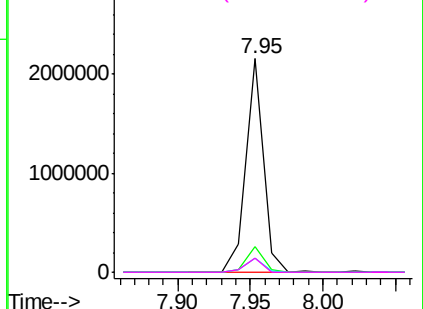
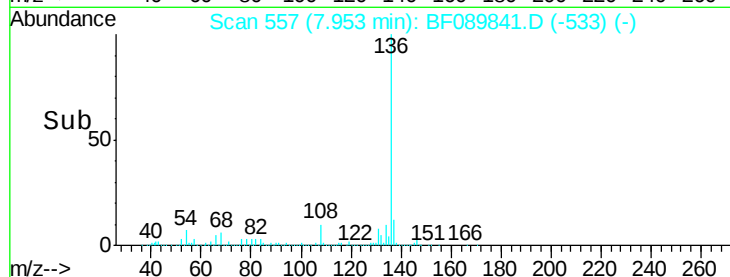


Abundance Ion 136.00 (135.70 to 136.70): E

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: 69.16 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.02 min

Lab File: BF089841.D

Acq: 23 Aug 2016 18:05

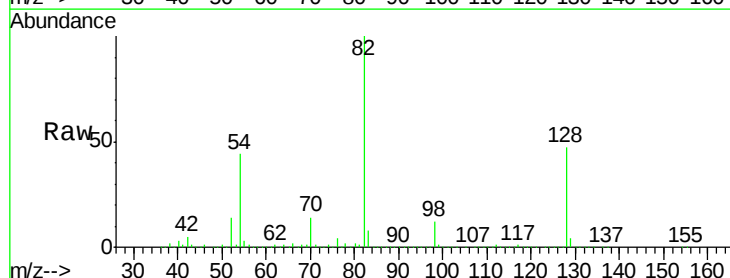
Tgt Ion: 82 Resp: 2021705

Ion Ratio Lower Upper

82 100

128 47.2 34.4 51.6

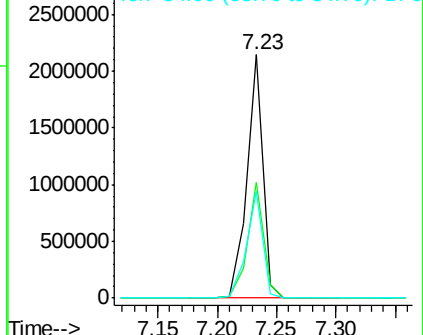
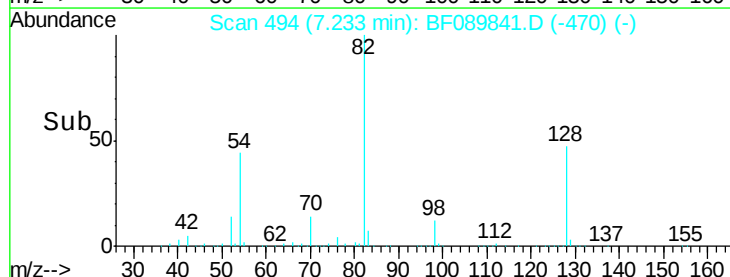
54 43.7 40.3 60.5

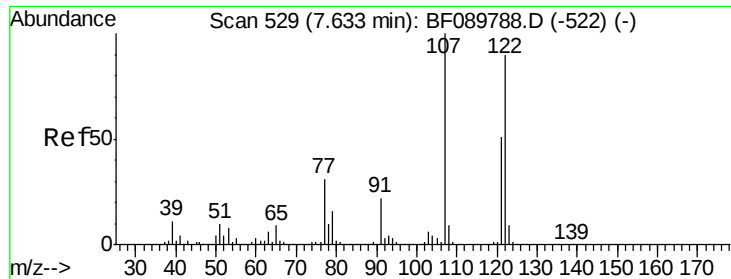


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

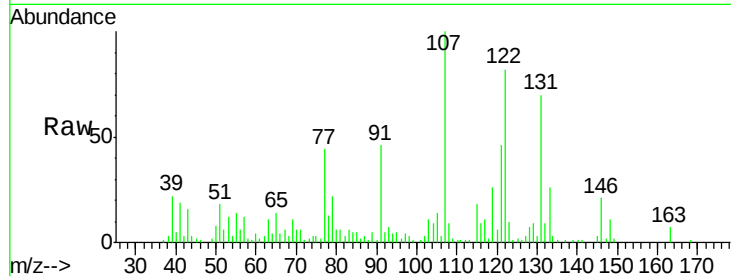




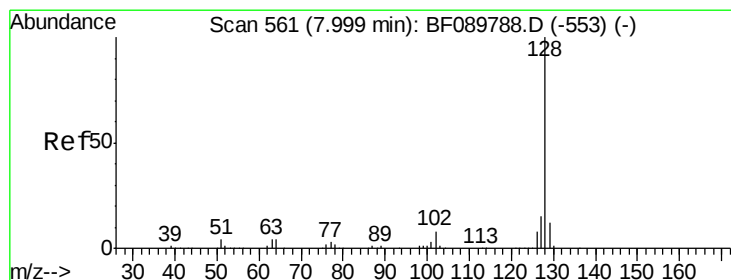
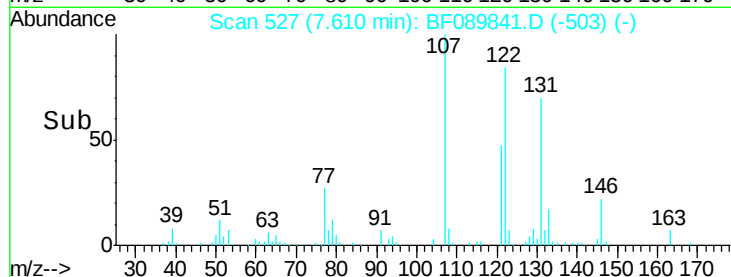
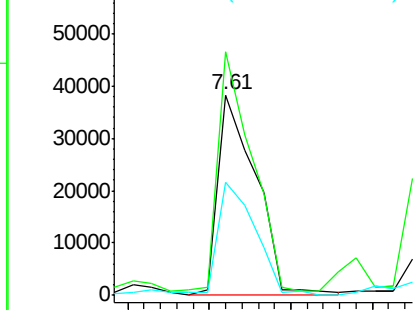
#27  
2,4-Dimethylphenol  
Concen: 2.09 ng  
RT: 7.61 min Scan# 527  
Delta R.T. -0.02 min  
Lab File: BF089841.D  
Acq: 23 Aug 2016 18:05

Instrument :  
BNA\_F  
ClientSampleId :  
D-13(2-2.5)

Tgt Ion:122 Resp: 61749  
Ion Ratio Lower Upper  
122 100  
107 121.5 84.8 127.2  
121 56.3 47.0 70.6

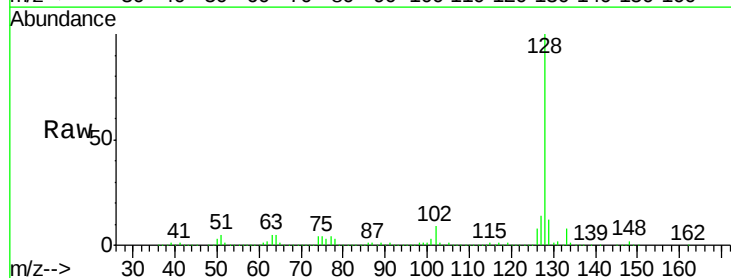


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E

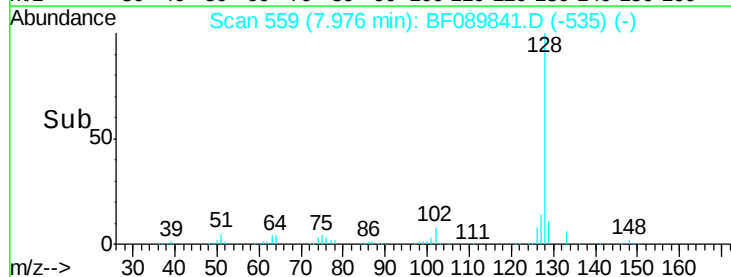
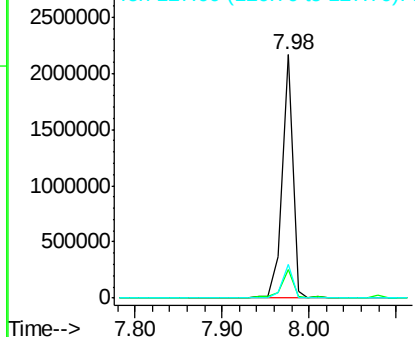


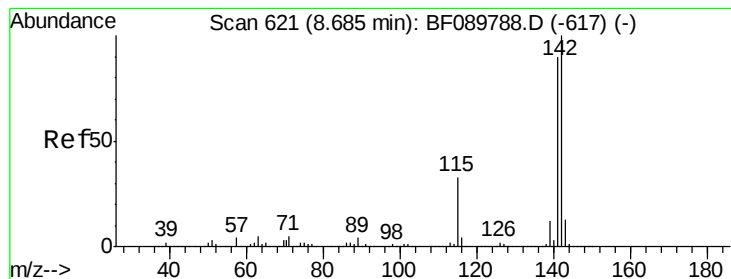
#31  
Naphthalene  
Concen: 21.52 ng  
RT: 7.98 min Scan# 559  
Delta R.T. -0.02 min  
Lab File: BF089841.D  
Acq: 23 Aug 2016 18:05

Tgt Ion:128 Resp: 1826284  
Ion Ratio Lower Upper  
128 100  
129 11.8 9.5 14.3  
127 14.0 11.3 16.9



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

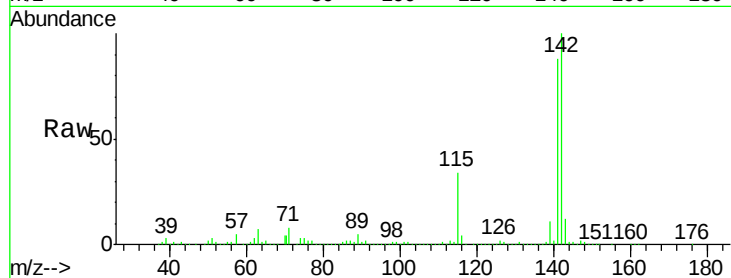




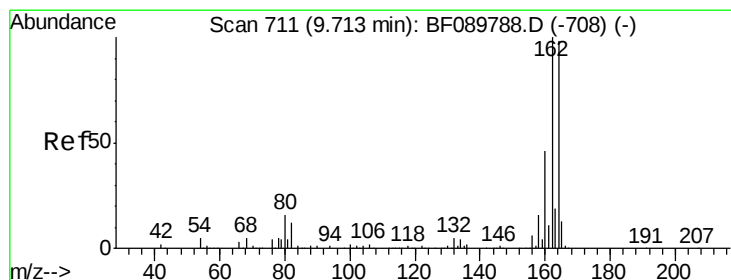
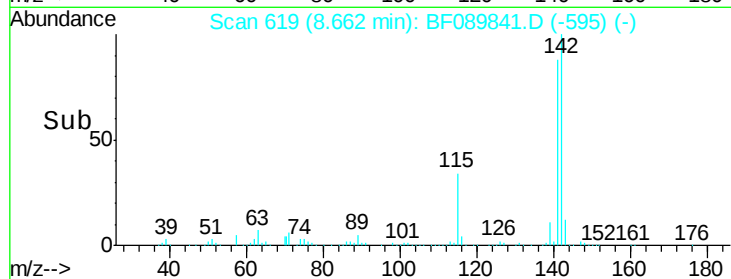
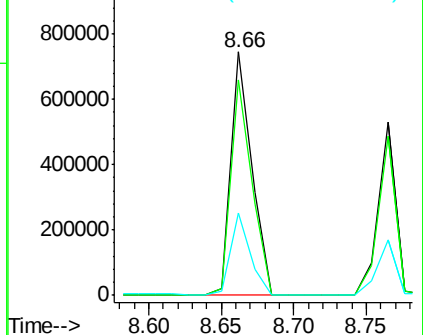
#37  
 2-Methylnaphthalene  
 Concen: 13.58 ng  
 RT: 8.66 min Scan# 619  
 Delta R.T. -0.02 min  
 Lab File: BF089841.D  
 Acq: 23 Aug 2016 18:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-13(2-2.5)

Tgt Ion:142 Resp: 745761  
 Ion Ratio Lower Upper  
 142 100  
 141 88.4 71.4 107.2  
 115 33.9 22.7 34.1

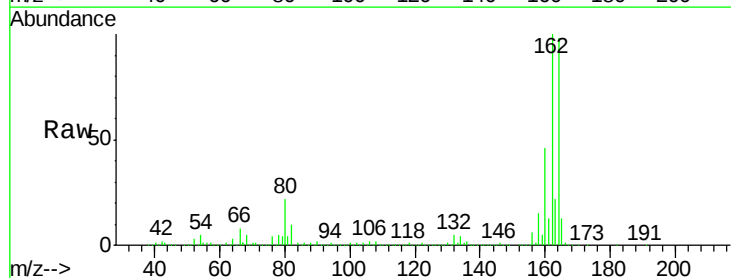


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

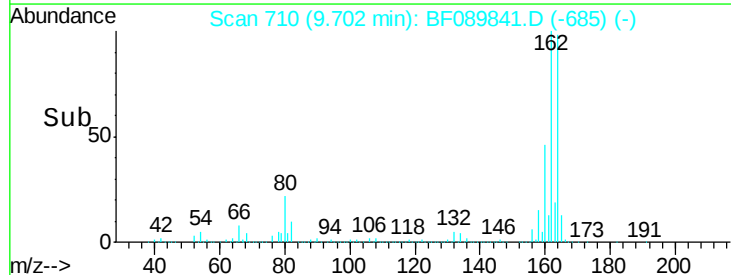
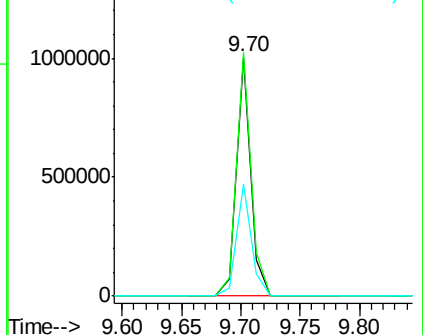


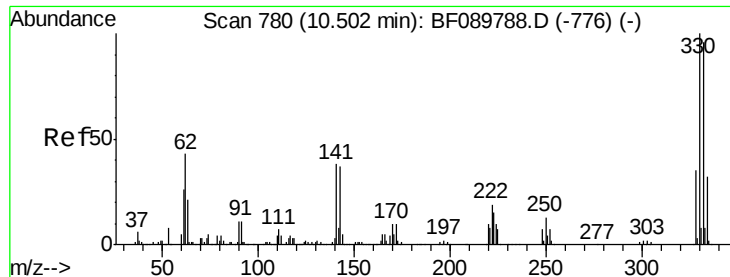
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.70 min Scan# 710  
 Delta R.T. -0.01 min  
 Lab File: BF089841.D  
 Acq: 23 Aug 2016 18:05

Tgt Ion:164 Resp: 848042  
 Ion Ratio Lower Upper  
 164 100  
 162 101.9 81.4 122.2  
 160 46.6 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

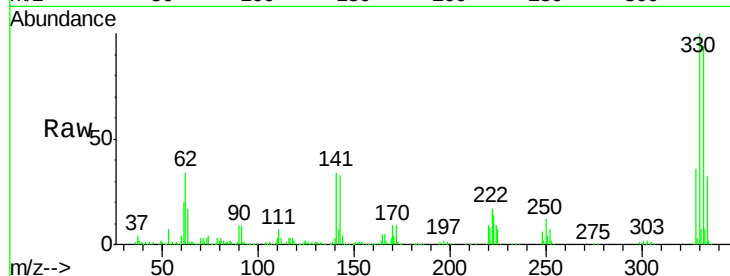




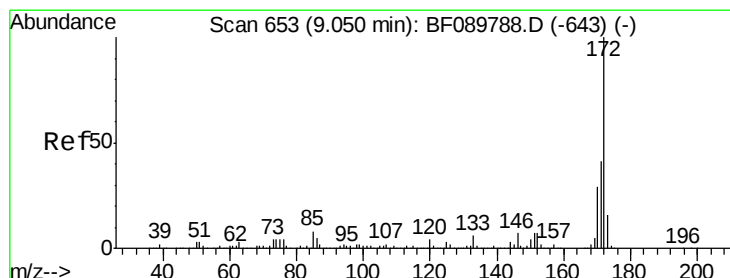
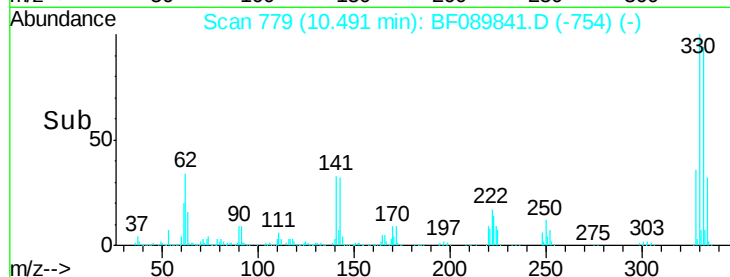
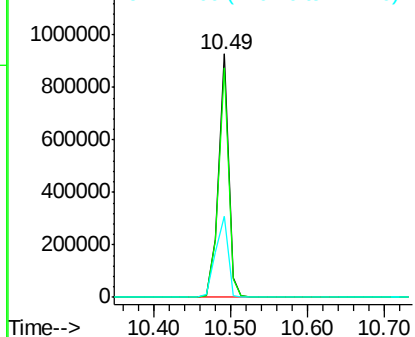
#41  
 2,4,6-Tribromophenol  
 Concen: 106.48 ng  
 RT: 10.49 min Scan# 779  
 Delta R.T. -0.01 min  
 Lab File: BF089841.D  
 Acq: 23 Aug 2016 18:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-13(2-2.5)

Tgt Ion:330 Resp: 858176  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 76.7 115.1  
 141 40.2 30.2 45.2

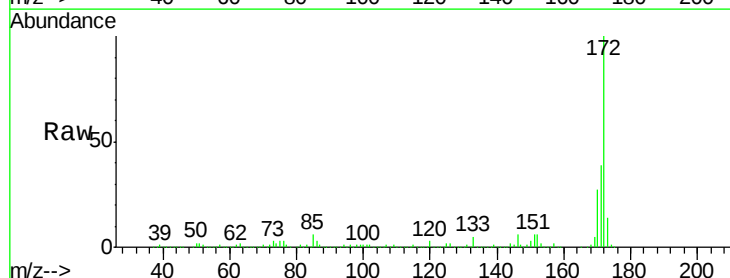


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

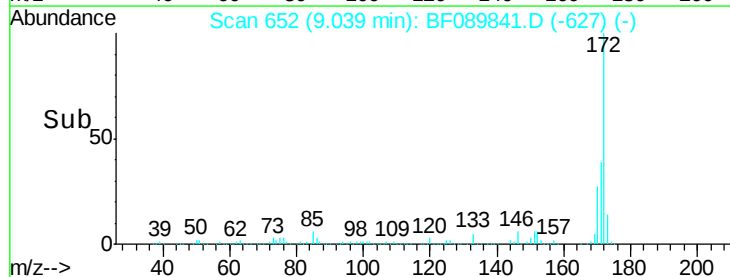
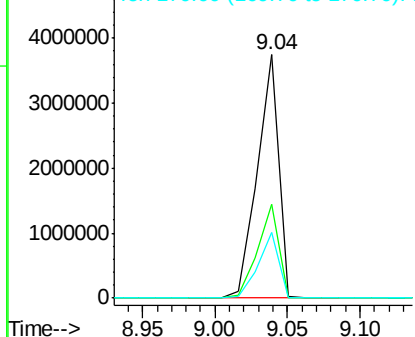


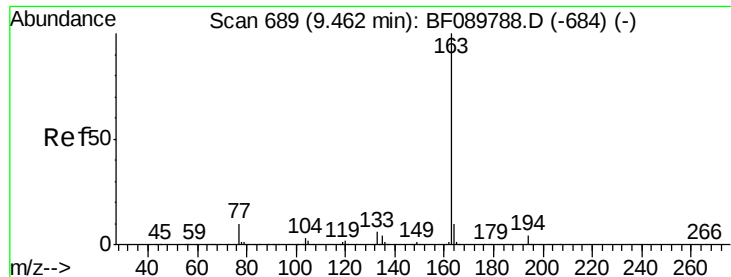
#44  
 2-Fluorobiphenyl  
 Concen: 79.30 ng  
 RT: 9.04 min Scan# 652  
 Delta R.T. -0.01 min  
 Lab File: BF089841.D  
 Acq: 23 Aug 2016 18:05

Tgt Ion:172 Resp: 3826368  
 Ion Ratio Lower Upper  
 172 100  
 171 38.5 30.5 45.7  
 170 26.7 20.6 31.0



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





#49

Dimethylphthalate

Concen: 21.90 ng

RT: 9.43 min Scan# 686

Delta R.T. -0.03 min

Lab File: BF089841.D

Acq: 23 Aug 2016 18:05

Instrument :

BNA\_F

ClientSampleId :

D-13(2-2.5)

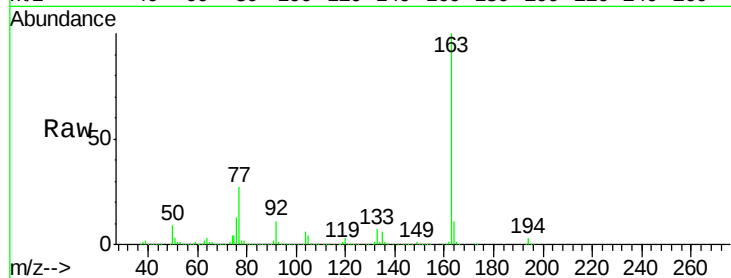
Tgt Ion:163 Resp: 1307555

Ion Ratio Lower Upper

163 100

194 2.8 2.6 3.8

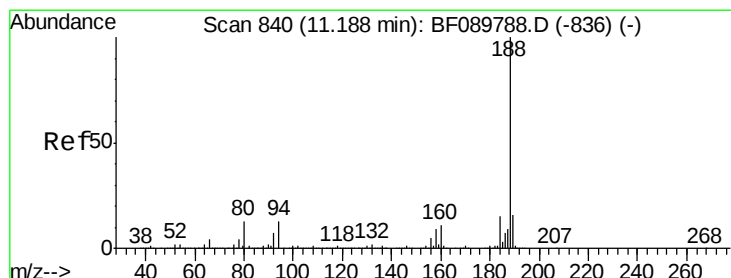
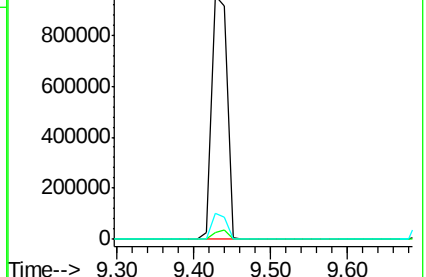
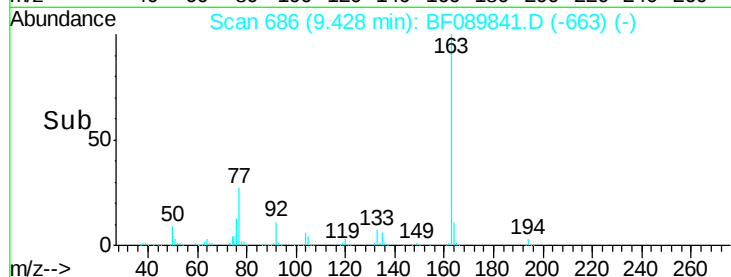
164 10.9 8.6 12.8



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.18 min Scan# 839

Delta R.T. -0.01 min

Lab File: BF089841.D

Acq: 23 Aug 2016 18:05

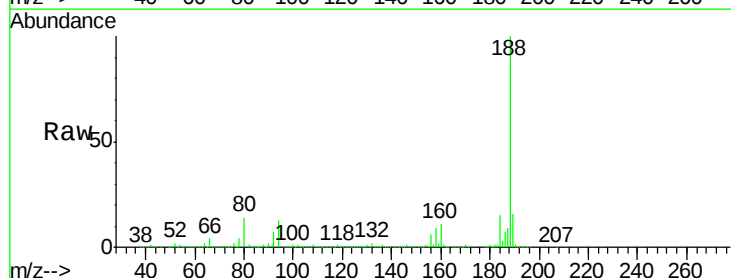
Tgt Ion:188 Resp: 1475635

Ion Ratio Lower Upper

188 100

94 13.0 10.2 15.2

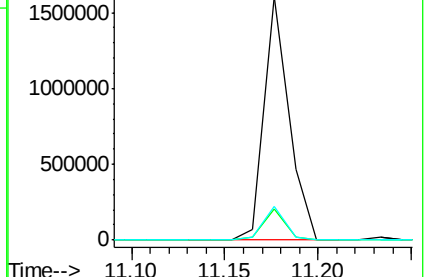
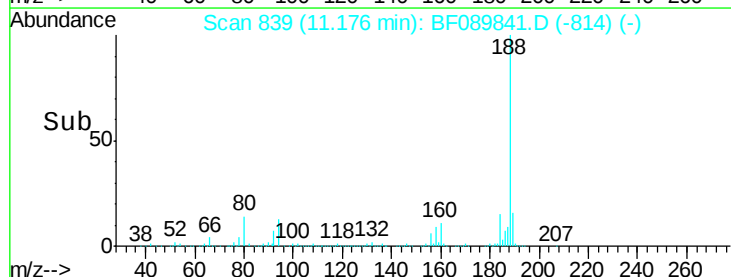
80 13.6 10.9 16.3

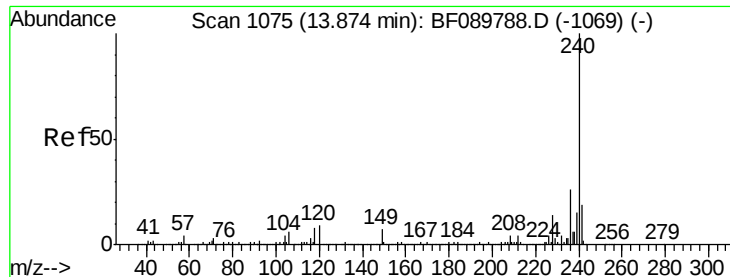


Abundance Ion 188.00 (187.70 to 188.70): E

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: 13.81 min Scan# 1069

Delta R.T. -0.07 min

Lab File: BF089841.D

Acq: 23 Aug 2016 18:05

Instrument :

BNA\_F

ClientSampleId :

D-13(2-2.5)

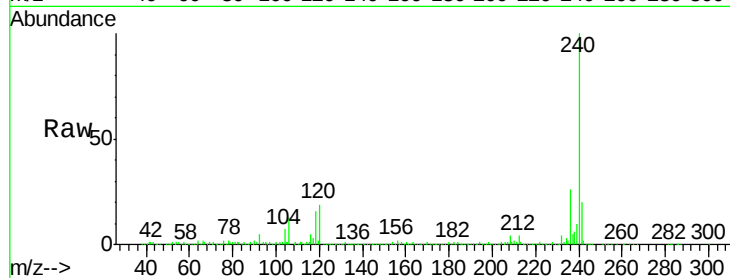
Tgt Ion:240 Resp: 1296332

Ion Ratio Lower Upper

240 100

120 18.5 8.3 12.5#

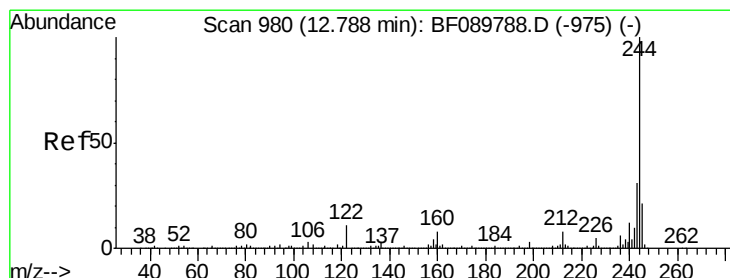
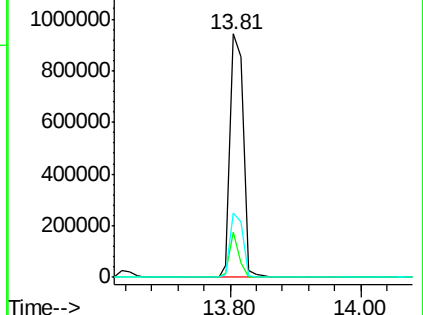
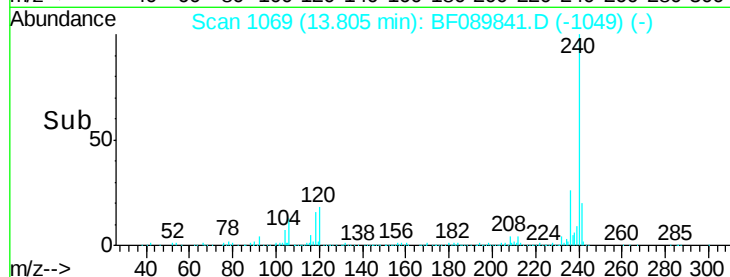
236 26.4 21.3 31.9



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: 57.58 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BF089841.D

Acq: 23 Aug 2016 18:05

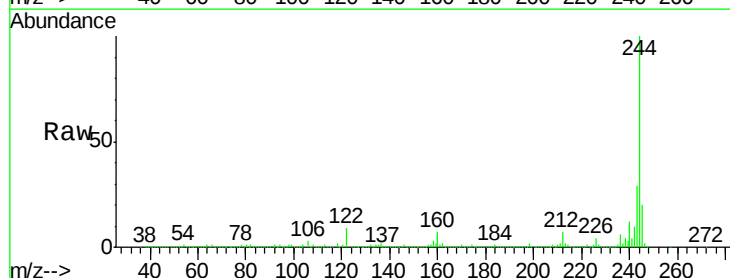
Tgt Ion:244 Resp: 3299341

Ion Ratio Lower Upper

244 100

212 7.4 6.3 9.5

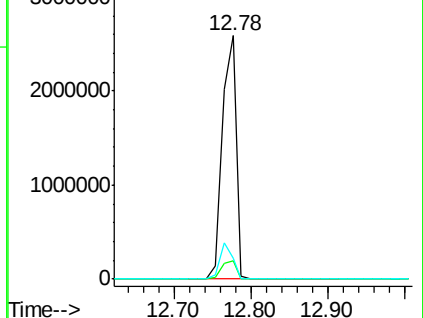
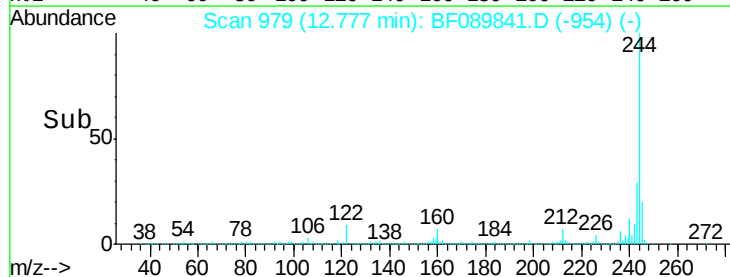
122 8.8 12.0 18.0#

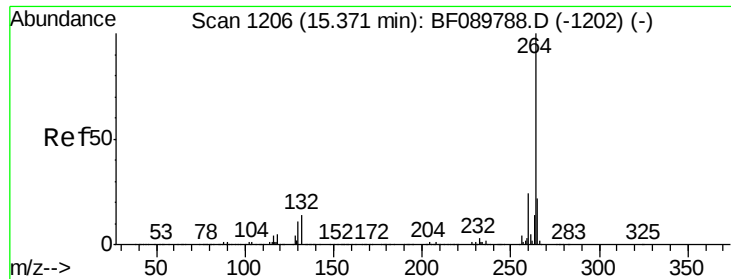


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.21 min Scan# 1192  
Delta R.T. -0.16 min  
Lab File: BF089841.D  
Acq: 23 Aug 2016 18:05

Instrument :  
BNA\_F  
ClientSampleId :  
D-13(2-2.5)

Tgt Ion: 264 Resp: 1052480  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.3  | 20.2  | 30.2  |
| 265 | 22.1  | 17.4  | 26.2  |

