

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021317\  
 Data File : BF092916.D  
 Acq On : 13 Feb 2017 10:54  
 Operator : SJ/MA  
 Sample : I1772-03DL 10X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-4

Quant Time: Feb 13 11:45:31 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 30 14:50:05 2017  
 Response via : Initial Calibration

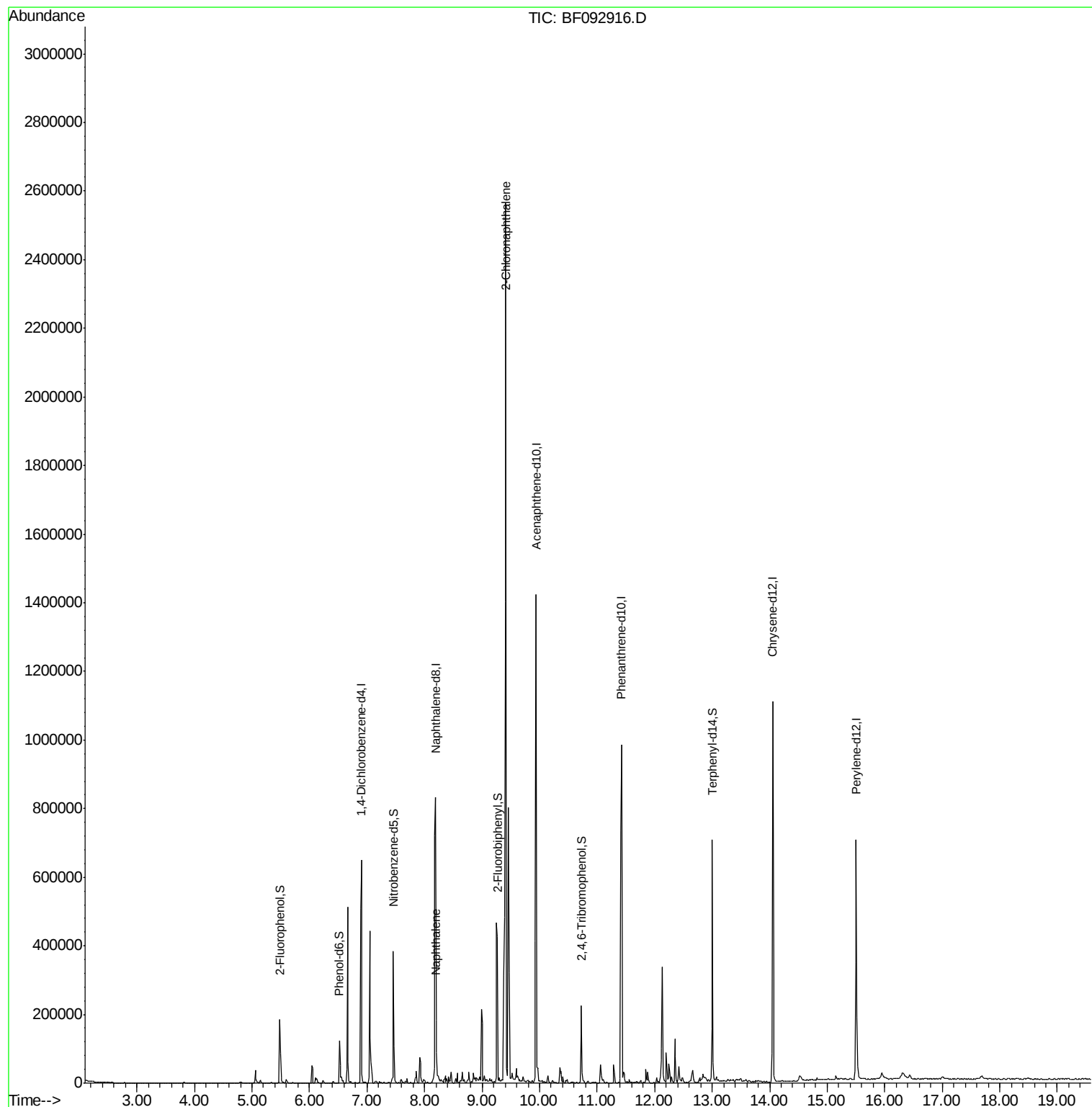
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|-------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 136884   | 20.00 | ng    | -0.07      |
| 21) Naphthalene-d8          | 8.19  | 136  | 540769   | 20.00 | ng    | -0.07      |
| 38) Acenaphthene-d10        | 9.94  | 164  | 317666   | 20.00 | ng    | -0.07      |
| 63) Phenanthrene-d10        | 11.43 | 188  | 498846   | 20.00 | ng    | -0.07      |
| 75) Chrysene-d12            | 14.05 | 240  | 385322   | 20.00 | ng    | -0.09      |
| 86) Perylene-d12            | 15.51 | 264  | 322501   | 20.00 | ng    | -0.10      |
| System Monitoring Compounds |       |      |          |       |       |            |
| 5) 2-Fluorophenol           | 5.48  | 112  | 60906    | 7.63  | ng    | -0.09      |
| 7) Phenol-d6                | 6.52  | 99   | 45861    | 4.47  | ng    | -0.08      |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 112564   | 11.59 | ng    | -0.08      |
| 41) 2,4,6-Tribromophenol    | 10.73 | 330  | 34210    | 14.89 | ng    | -0.08      |
| 44) 2-Fluorobiphenyl        | 9.26  | 172  | 222129   | 12.67 | ng    | -0.07      |
| 78) Terphenyl-d14           | 13.00 | 244  | 208332   | 12.70 | ng    | -0.08      |
| Target Compounds            |       |      |          |       |       |            |
| 31) Naphthalene             | 8.20  | 128  | 79040    | 2.88  | ng    | Qvalue 100 |
| 46) 2-Chloronaphthalene     | 9.41  | 162  | 1090219  | 60.59 | ng    | 98         |

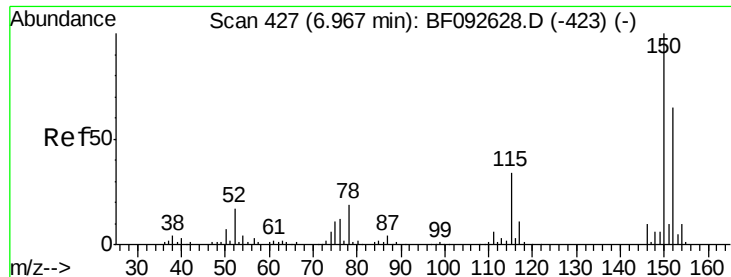
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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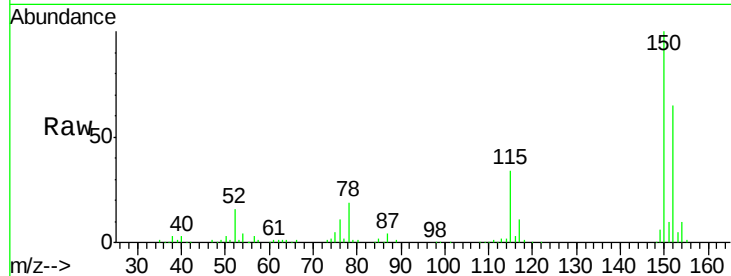


#1

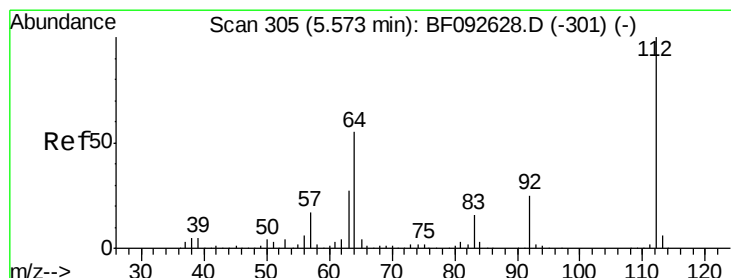
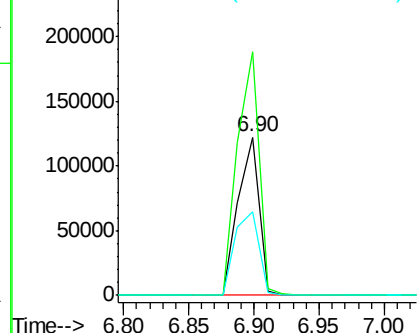
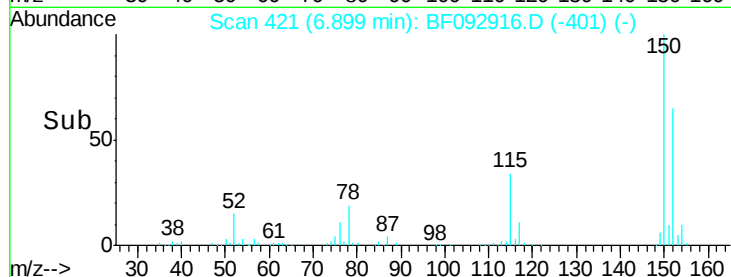
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.90 min Scan# 421  
Delta R.T. -0.07 min  
Lab File: BF092916.D  
Acq: 13 Feb 2017 10:54

Instrument :  
BNA\_F  
ClientSampleId :  
MW-4

Tgt Ion:152 Resp: 136884  
Ion Ratio Lower Upper  
152 100  
150 153.9 124.9 187.3  
115 52.8 46.0 69.0



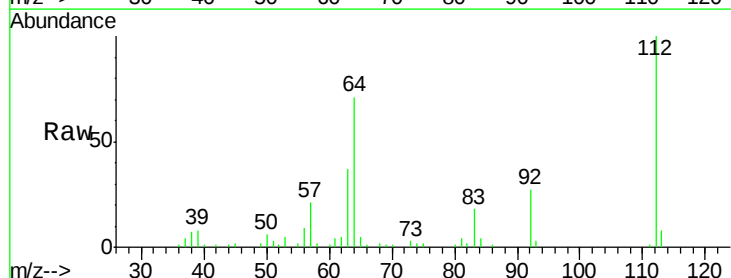
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



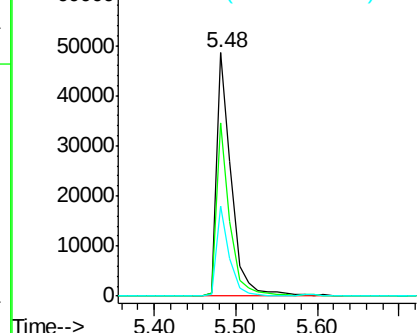
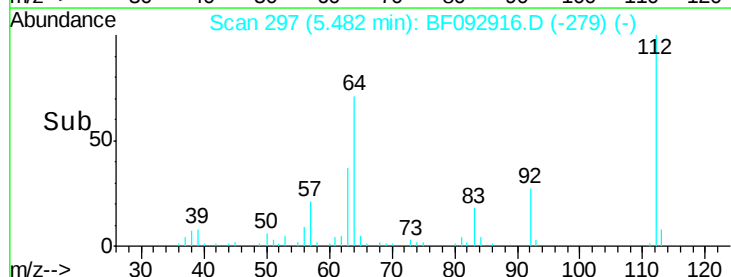
#5

2-Fluorophenol  
Concen: 7.63 ng  
RT: 5.48 min Scan# 297  
Delta R.T. -0.09 min  
Lab File: BF092916.D  
Acq: 13 Feb 2017 10:54

Tgt Ion:112 Resp: 60906  
Ion Ratio Lower Upper  
112 100  
64 71.1 46.1 69.1#  
63 37.0 23.8 35.6#



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: 4.47 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.08 min

Lab File: BF092916.D

Acq: 13 Feb 2017 10:54

Instrument :

BNA\_F

ClientSampleId :

MW-4

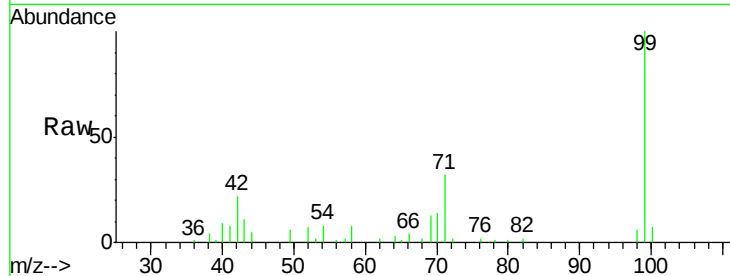
Tgt Ion: 99 Resp: 45861

Ion Ratio Lower Upper

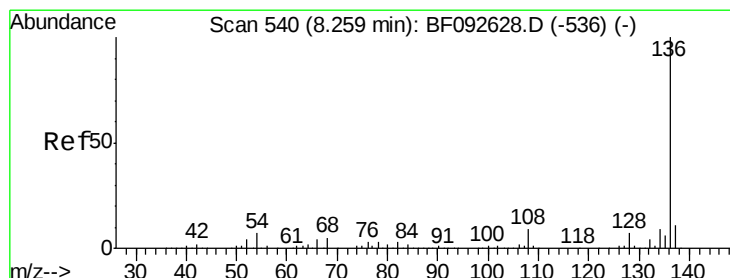
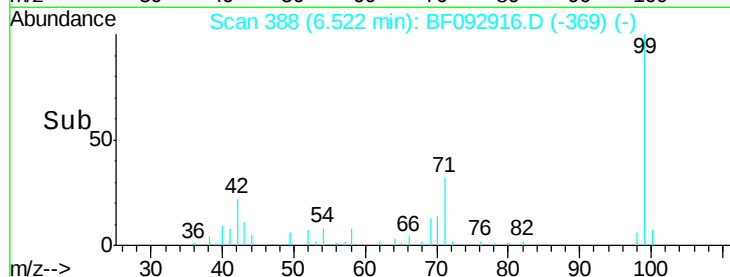
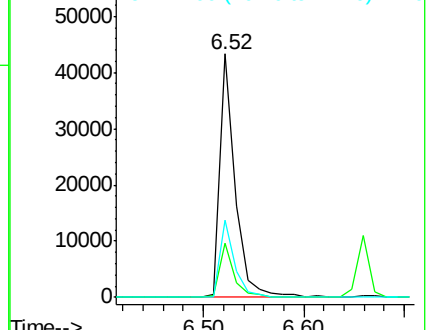
99 100

42 22.5 15.6 23.4

71 31.7 27.5 41.3



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: 8.19 min Scan# 534

Delta R.T. -0.07 min

Lab File: BF092916.D

Acq: 13 Feb 2017 10:54

Tgt Ion: 136 Resp: 540769

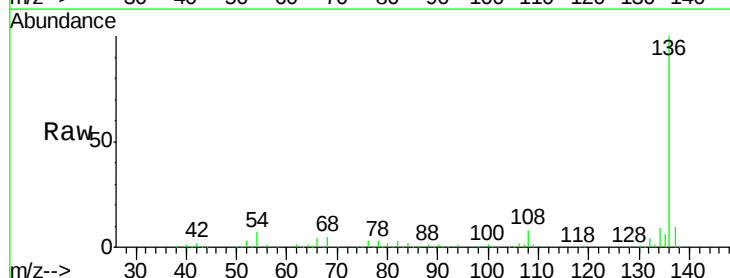
Ion Ratio Lower Upper

136 100

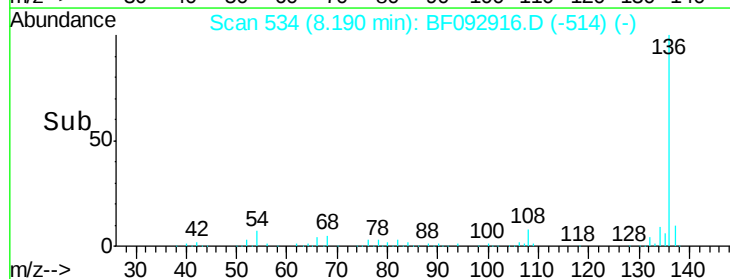
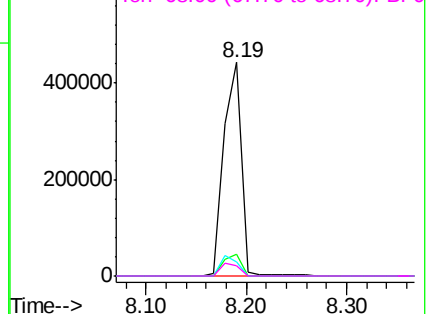
137 10.4 8.4 12.6

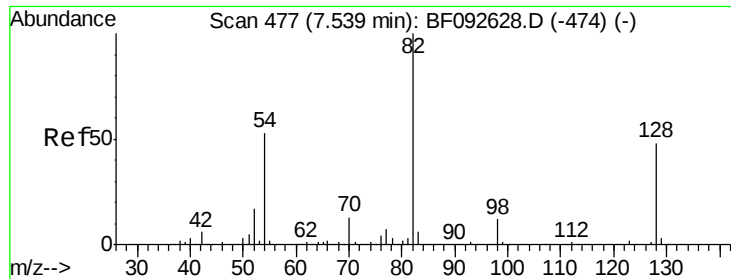
54 6.7 4.5 6.7

68 4.7 3.6 5.4



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: 11.59 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.08 min

Lab File: BF092916.D

Acq: 13 Feb 2017 10:54

Instrument :

BNA\_F

ClientSampleId :

MW-4

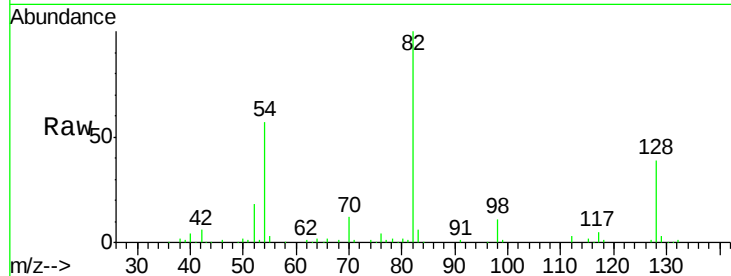
Tgt Ion: 82 Resp: 112564

Ion Ratio Lower Upper

82 100

128 39.0 34.6 52.0

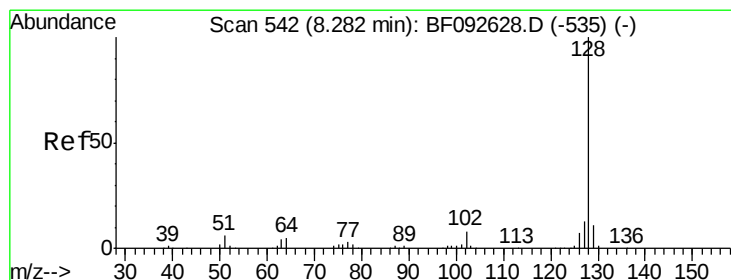
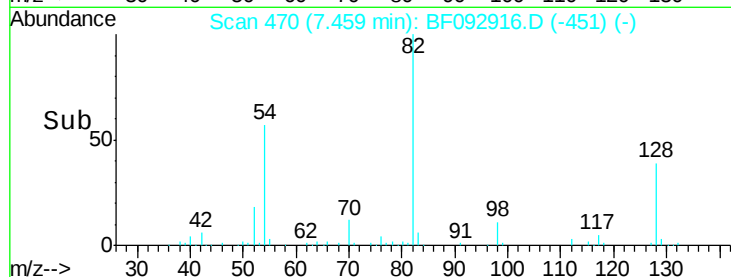
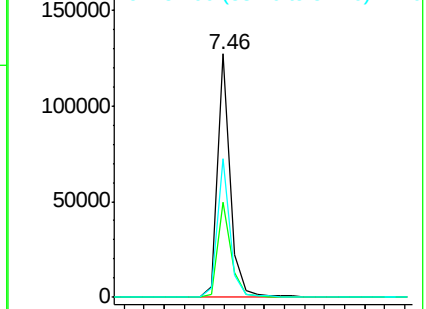
54 57.0 39.5 59.3



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



#31

Naphthalene

Concen: 2.88 ng

RT: 8.20 min Scan# 535

Delta R.T. -0.08 min

Lab File: BF092916.D

Acq: 13 Feb 2017 10:54

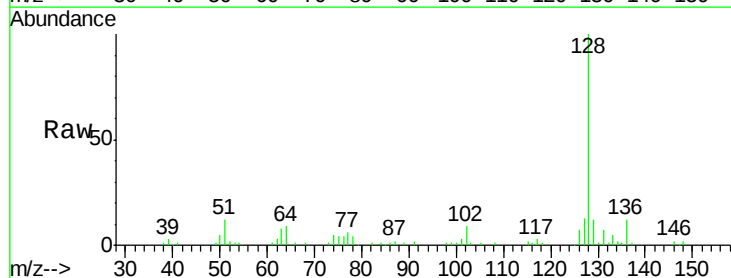
Tgt Ion: 128 Resp: 79040

Ion Ratio Lower Upper

128 100

129 12.0 9.5 14.3

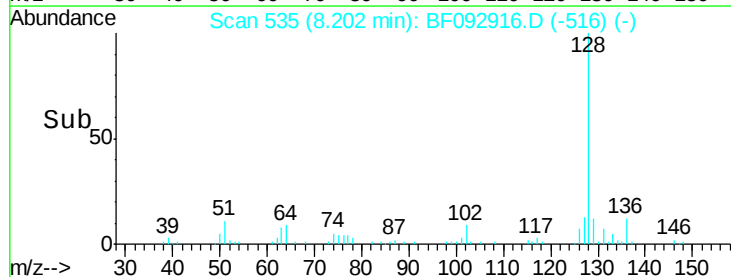
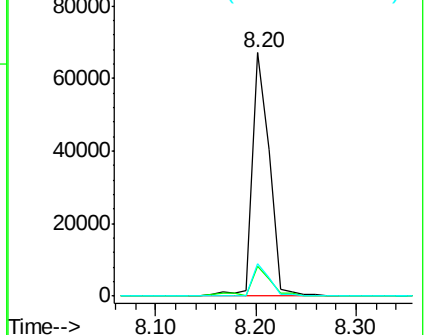
127 13.4 10.8 16.2

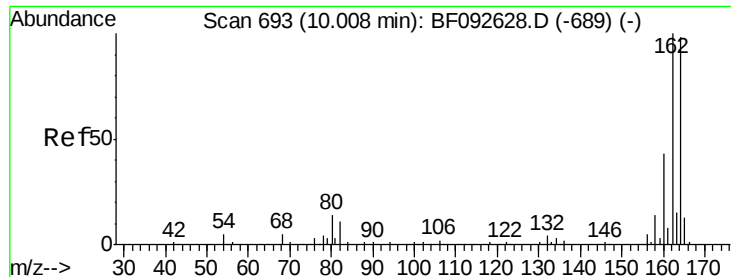


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.07 min

Lab File: BF092916.D

Acq: 13 Feb 2017 10:54

Instrument :

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ClientSampleId :

MW-4

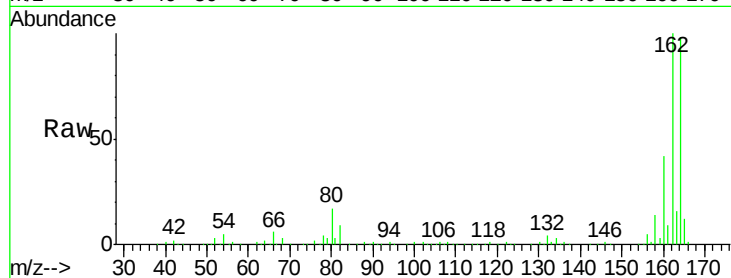
Tgt Ion:164 Resp: 317666

Ion Ratio Lower Upper

164 100

162 102.4 80.2 120.2

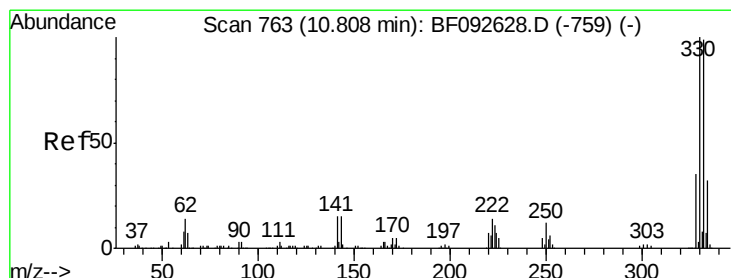
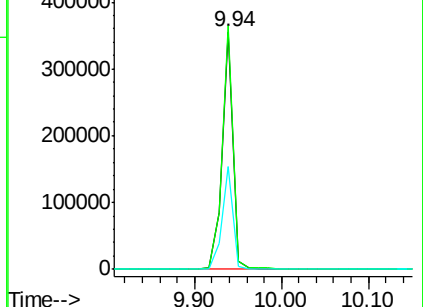
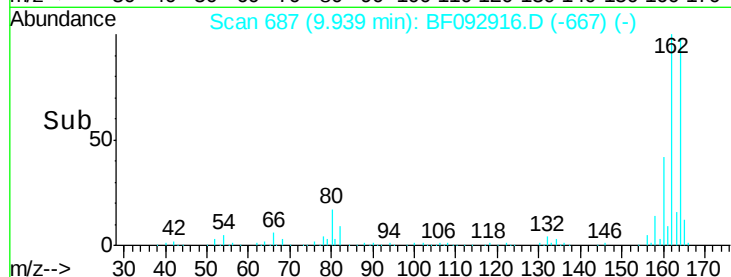
160 43.0 36.9 55.3



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: 14.89 ng

RT: 10.73 min Scan# 756

Delta R.T. -0.08 min

Lab File: BF092916.D

Acq: 13 Feb 2017 10:54

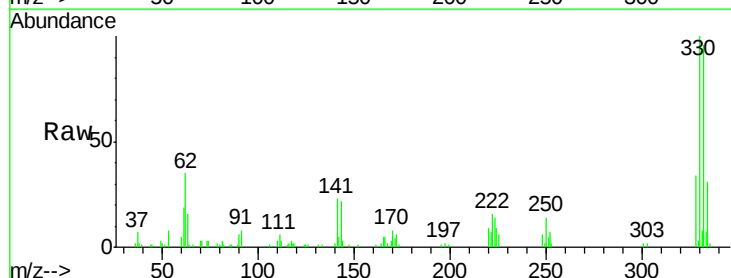
Tgt Ion:330 Resp: 34210

Ion Ratio Lower Upper

330 100

332 96.8 77.4 116.2

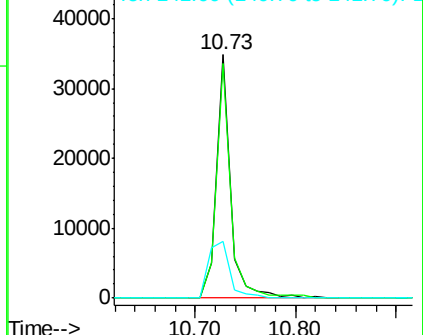
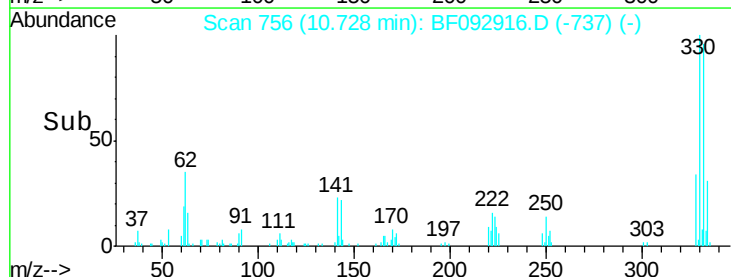
141 35.5 34.1 51.1



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

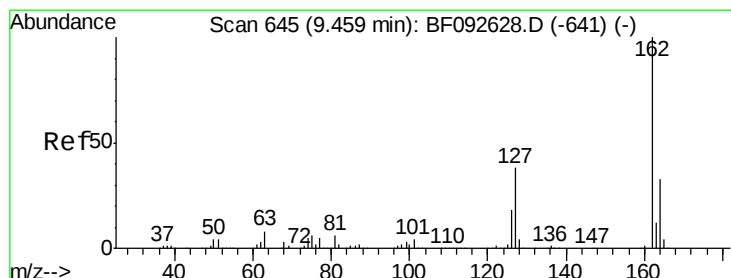
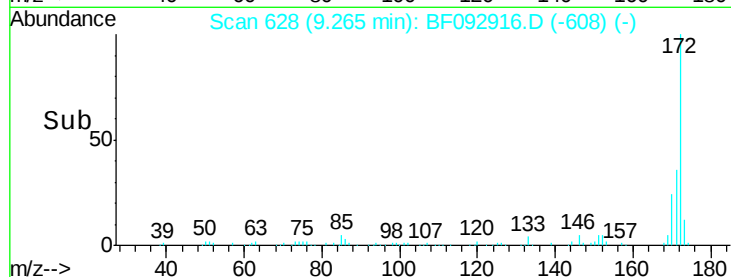
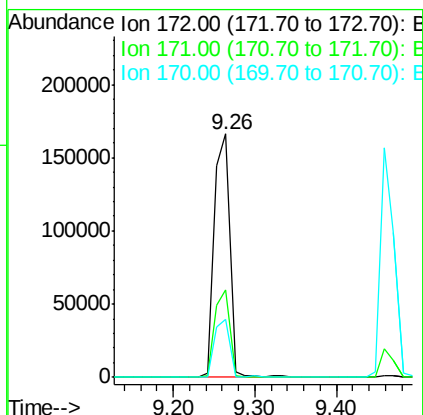
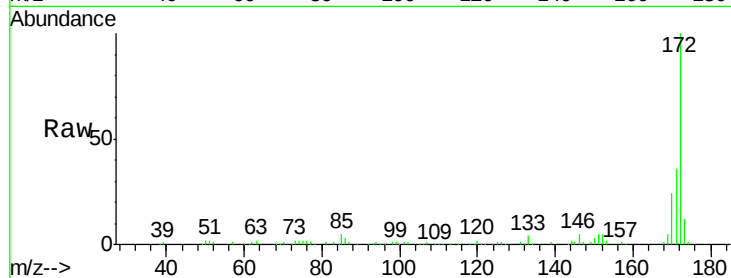




#44  
 2-Fluorobiphenyl  
 Concen: 12.67 ng  
 RT: 9.26 min Scan# 628  
 Delta R.T. -0.07 min  
 Lab File: BF092916.D  
 Acq: 13 Feb 2017 10:54

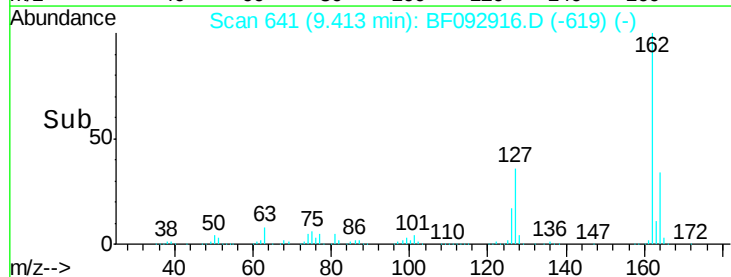
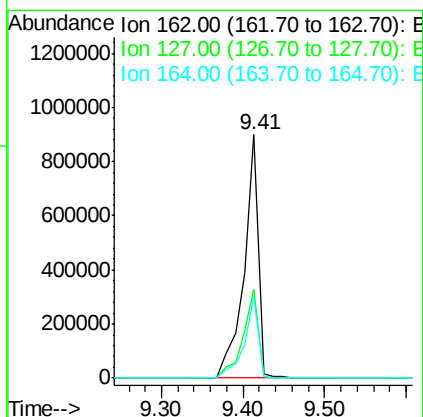
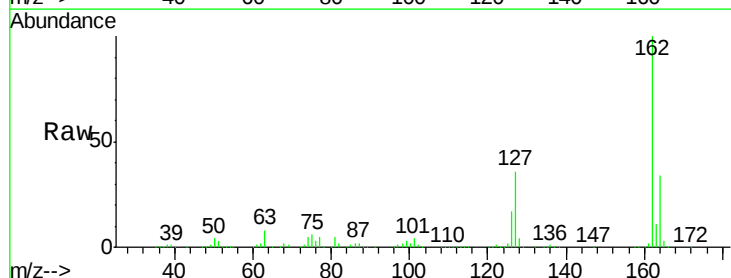
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-4

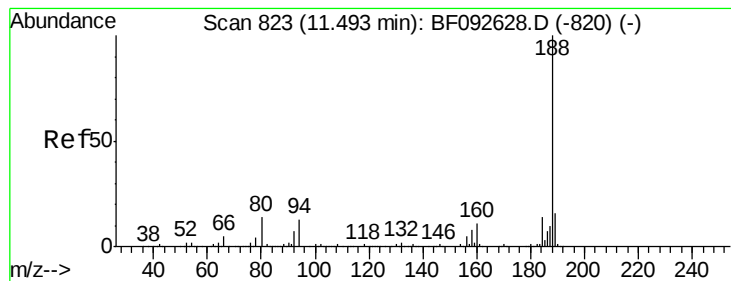
Tgt Ion:172 Resp: 222129  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.4 44.0  
 170 24.0 20.2 30.4



#46  
 2-Chloronaphthalene  
 Concen: 60.59 ng  
 RT: 9.41 min Scan# 641  
 Delta R.T. -0.05 min  
 Lab File: BF092916.D  
 Acq: 13 Feb 2017 10:54

Tgt Ion:162 Resp: 1090219  
 Ion Ratio Lower Upper  
 162 100  
 127 36.4 30.7 46.1  
 164 33.7 27.6 41.4





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.43 min Scan# 817

Delta R.T. -0.07 min

Lab File: BF092916.D

Acq: 13 Feb 2017 10:54

Instrument :

BNA\_F

ClientSampled :

MW-4

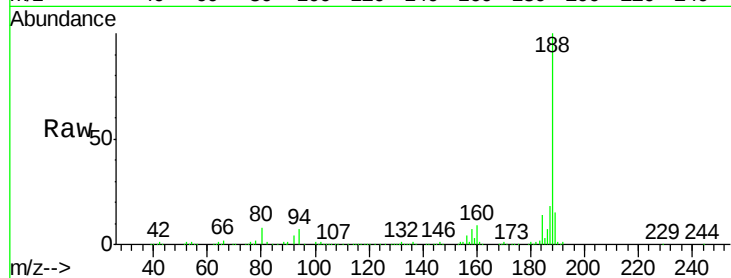
Tgt Ion:188 Resp: 498846

Ion Ratio Lower Upper

188 100

94 7.2 10.0 15.0#

80 7.5 11.2 16.8#

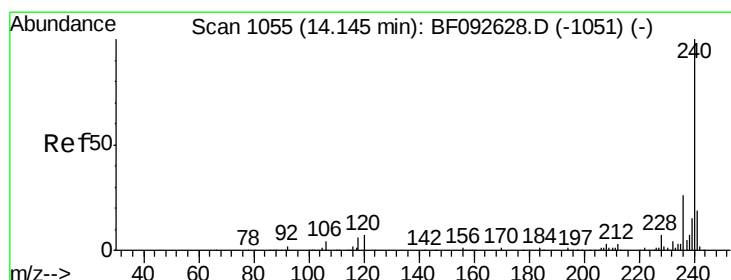
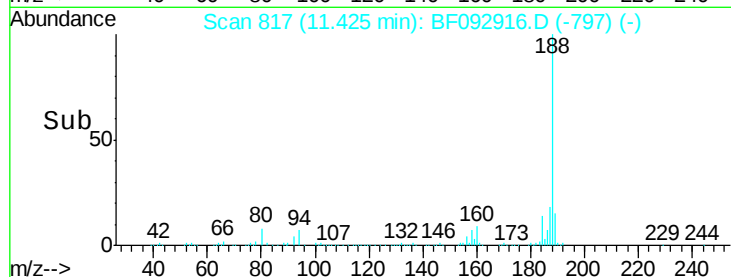
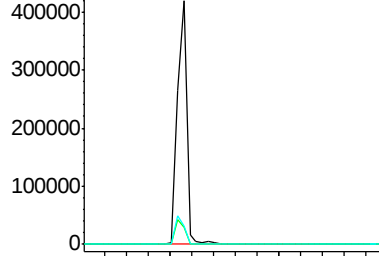


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

11.43



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.09 min

Lab File: BF092916.D

Acq: 13 Feb 2017 10:54

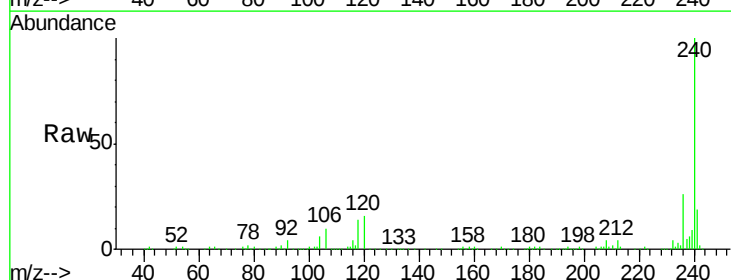
Tgt Ion:240 Resp: 385322

Ion Ratio Lower Upper

240 100

120 15.5 12.9 19.3

236 25.8 20.9 31.3

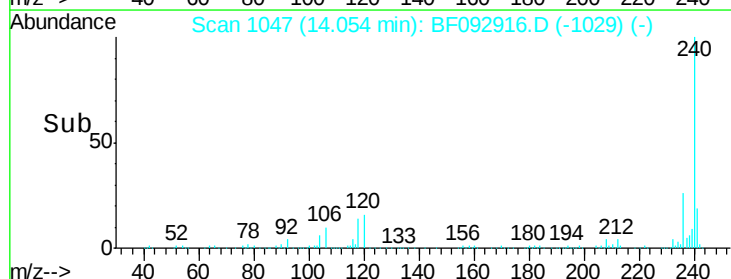
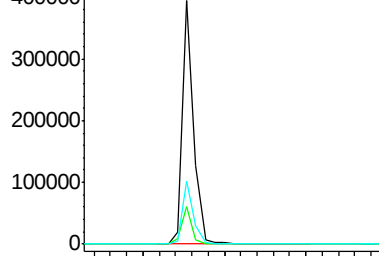


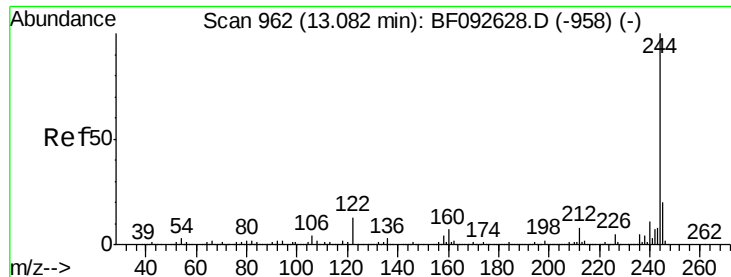
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

14.05

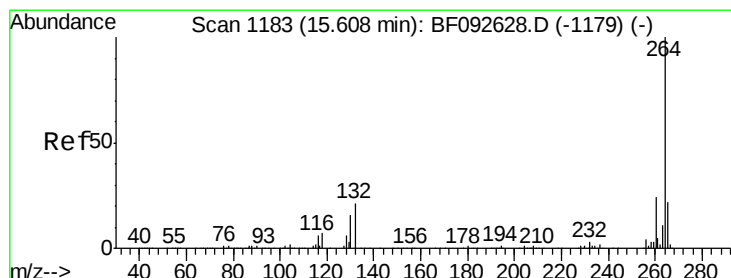
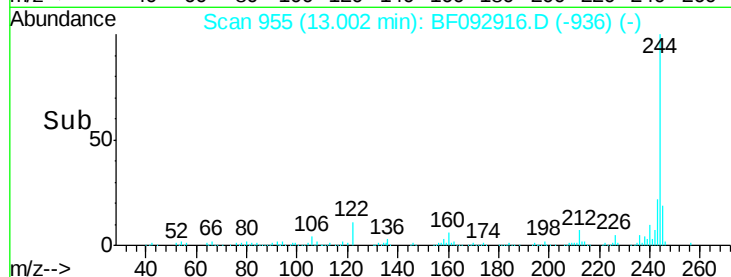
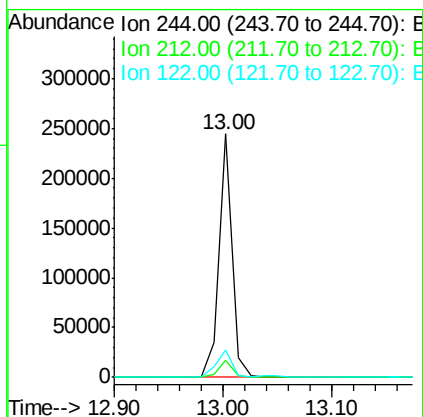
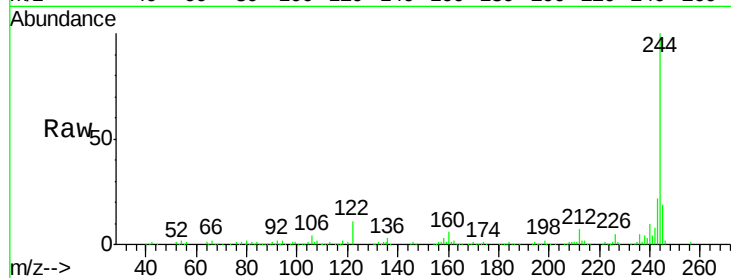




#78  
 Terphenyl-d14  
 Concen: 12.70 ng  
 RT: 13.00 min Scan# 955  
 Delta R.T. -0.08 min  
 Lab File: BF092916.D  
 Acq: 13 Feb 2017 10:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-4

Tgt Ion:244 Resp: 208332  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.2 9.2  
 122 11.4 11.4 17.2#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.51 min Scan# 1174  
 Delta R.T. -0.10 min  
 Lab File: BF092916.D  
 Acq: 13 Feb 2017 10:54

Tgt Ion:264 Resp: 322501  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 19.2 28.8  
 265 21.2 17.4 26.0

