

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090617\  
 Data File : BF098297.D  
 Acq On : 7 Sep 2017 2:44  
 Operator : SJ/JU  
 Sample : I5053-01 10X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-46A-0-3-COMP

Quant Time: Sep 07 07:18:08 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 17:28:20 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.70  | 152  | 107939   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.98  | 136  | 402272   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.73  | 164  | 154871   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.22 | 188  | 265289   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.85 | 240  | 249644   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.26 | 264  | 167249   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.30  | 112  | 45429    | 6.40  | ng    | 0.00     |
| 7) Phenol-d6                | 6.33  | 99   | 66745    | 6.92  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 35954    | 4.86  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 3879     | 2.89  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 60513    | 5.74  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.79 | 244  | 45336    | 3.79  | ng    | -0.02    |

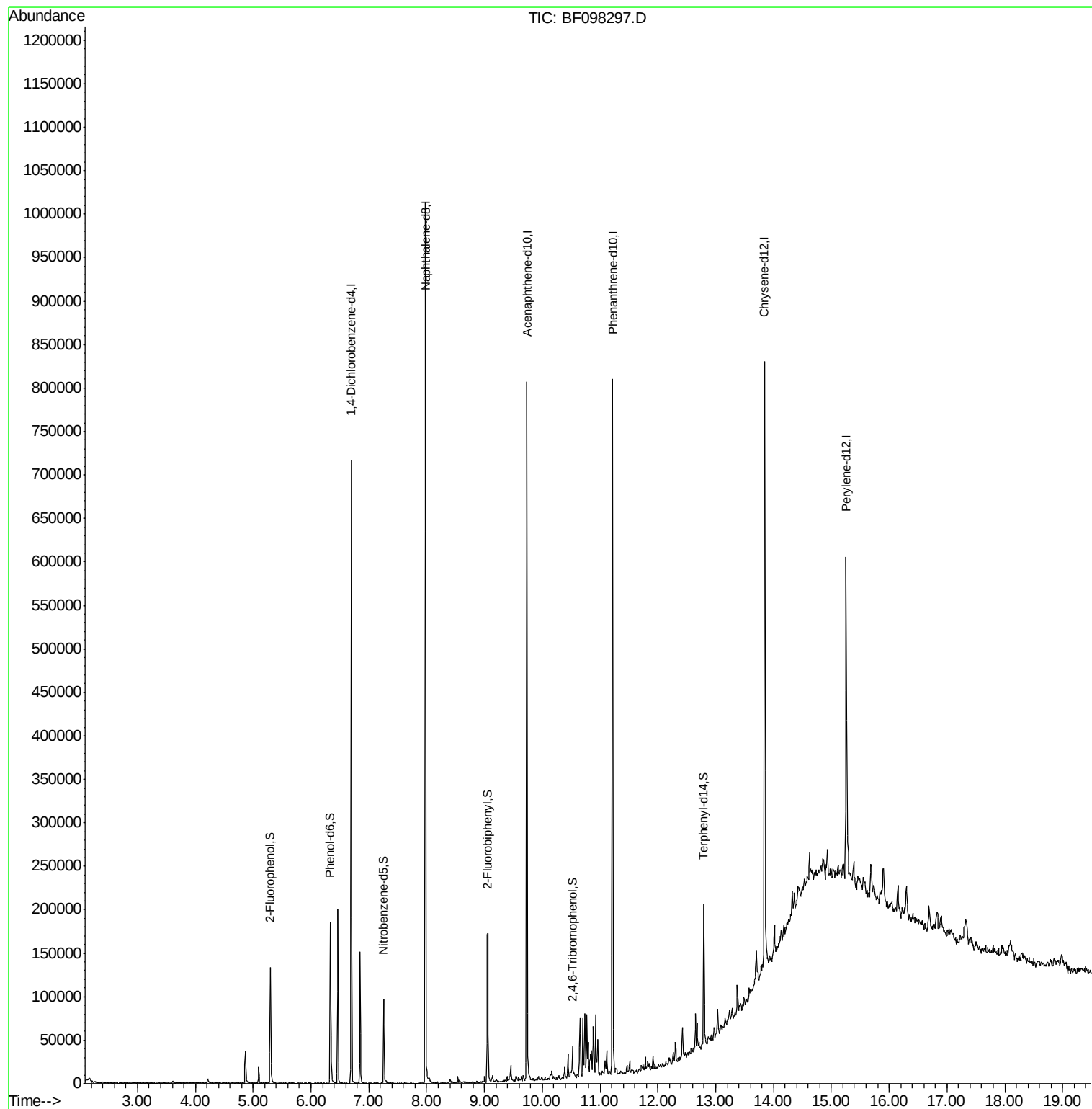
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

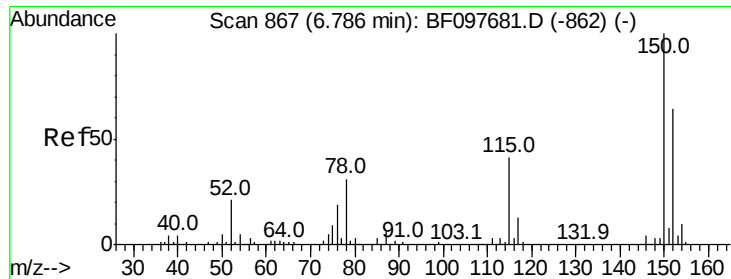
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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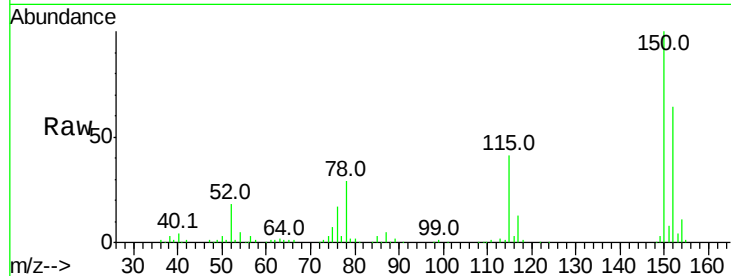


#1

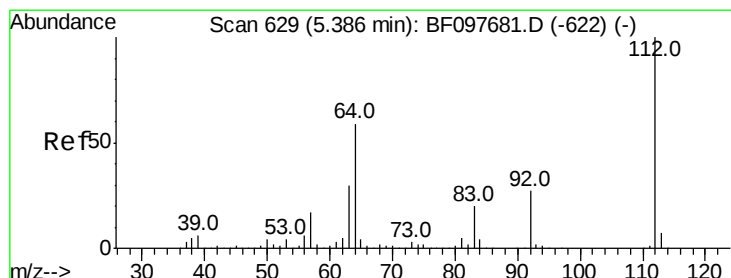
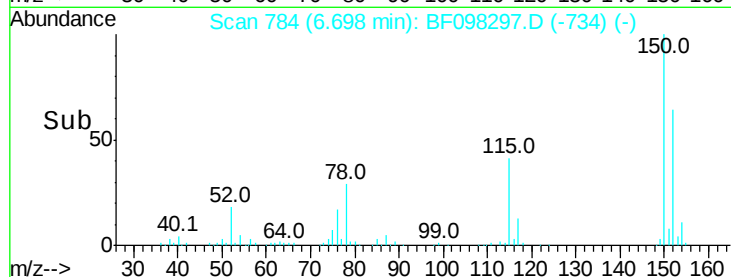
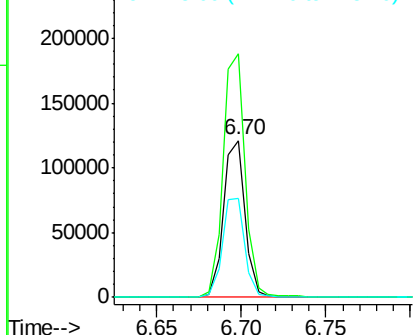
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.70 min Scan# 784  
 Delta R.T. -0.01 min  
 Lab File: BF098297.D  
 Acq: 7 Sep 2017 2:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-46A-0-3-COMP

Tot Ion:152 Resp: 107939  
 Ion Ratio Lower Upper  
 152 100  
 150 155.0 126.2 189.2  
 115 62.9 52.2 78.2



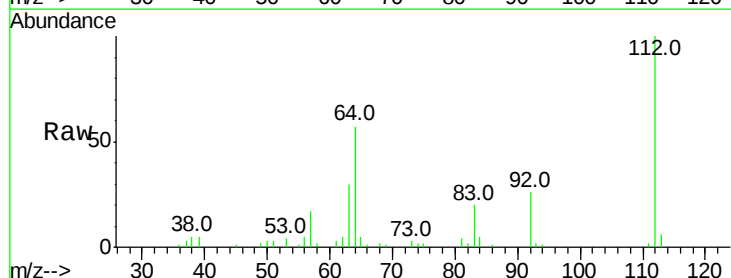
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



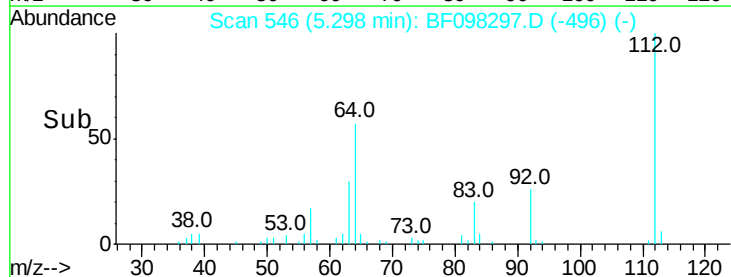
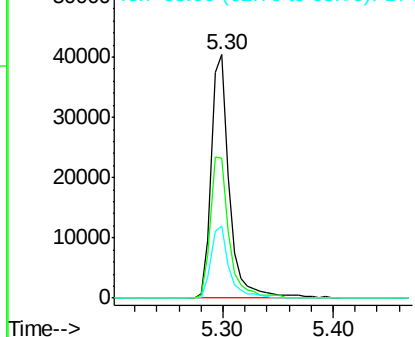
#5

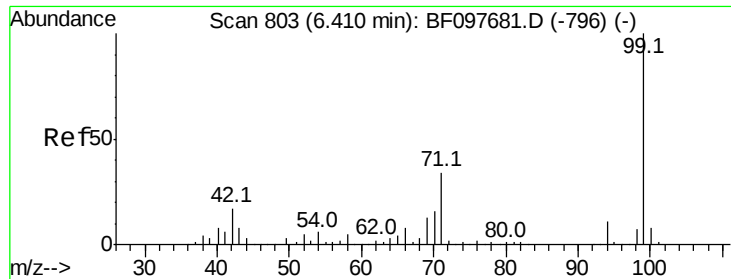
2-Fluorophenol  
 Concen: 6.402 ng  
 RT: 5.30 min Scan# 546  
 Delta R.T. -0.01 min  
 Lab File: BF098297.D  
 Acq: 7 Sep 2017 2:44

Tgt Ion:112 Resp: 45429  
 Ion Ratio Lower Upper  
 112 100  
 64 57.2 46.0 69.0  
 63 29.6 23.4 35.0



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: 6.922 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF098297.D

Acq: 7 Sep 2017 2:44

Instrument :

BNA\_F

ClientSampleId :

G-46A-0-3-COMP

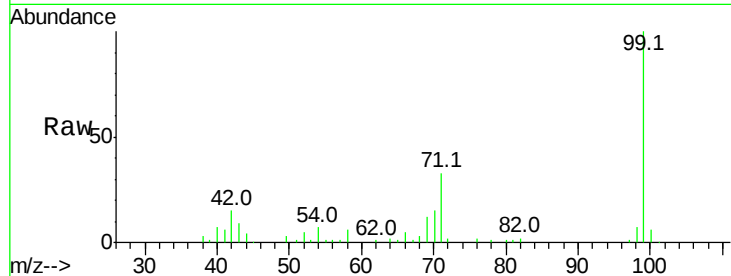
Tot Ion: 99 Resp: 66745

Ion Ratio Lower Upper

99 100

42 15.5 13.5 20.3

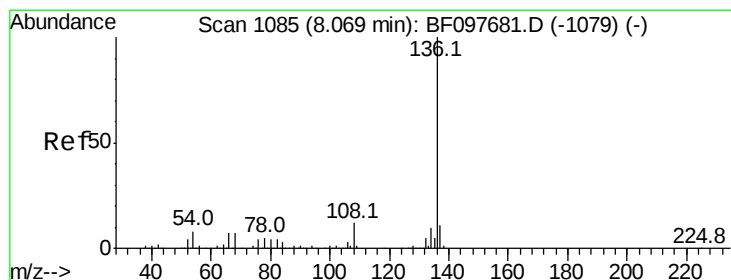
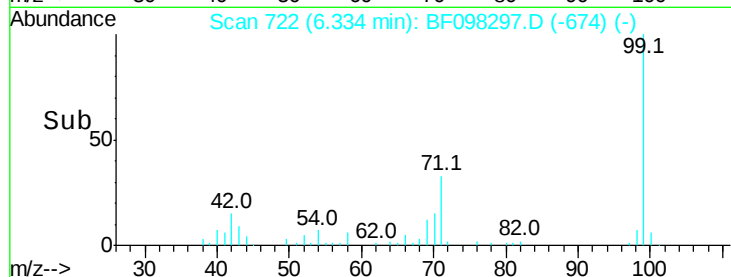
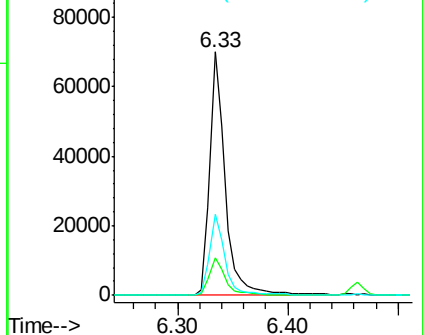
71 33.2 24.5 36.7



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: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF098297.D

Acq: 7 Sep 2017 2:44

Tgt Ion: 136 Resp: 402272

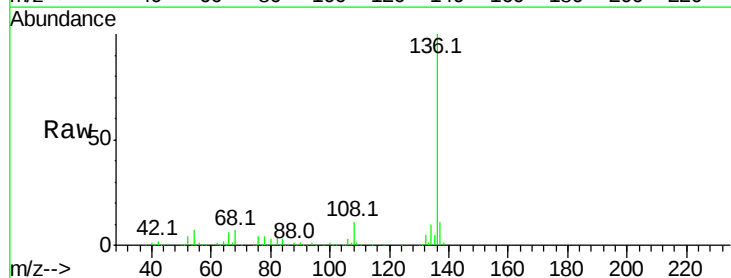
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 7.5 4.9 7.3#

68 7.1 4.1 6.1#

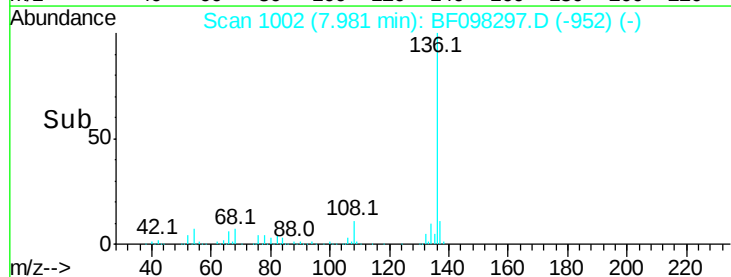
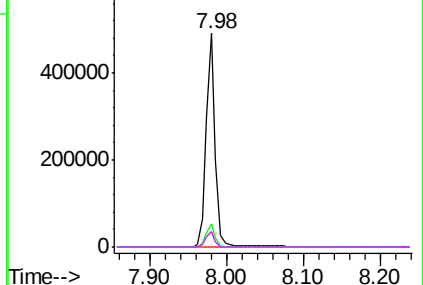


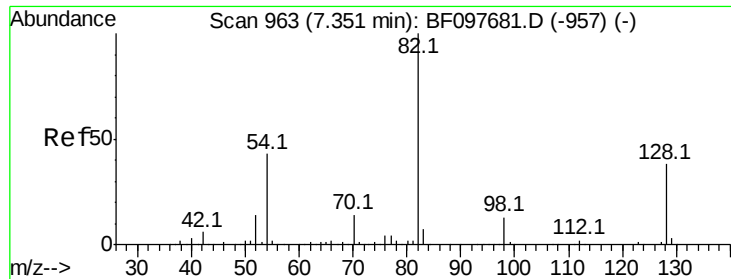
Abundance Ion 136.00 (135.70 to 136.70): E

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

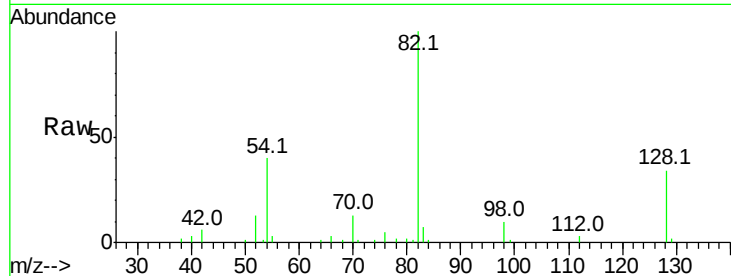




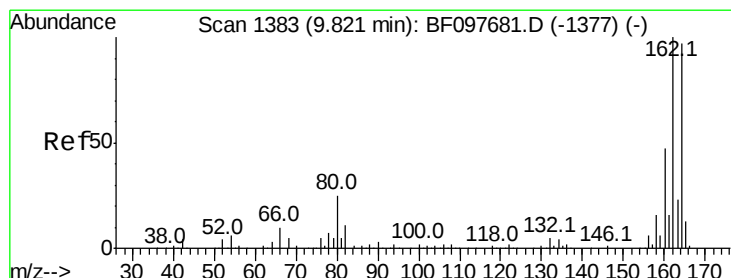
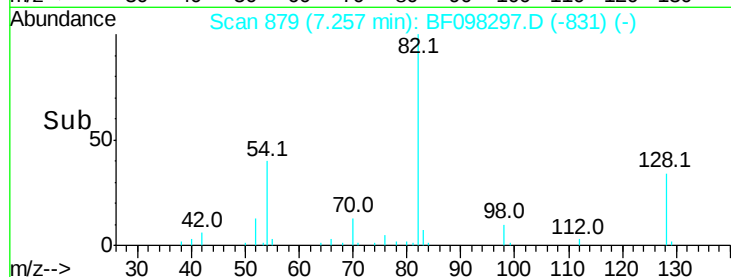
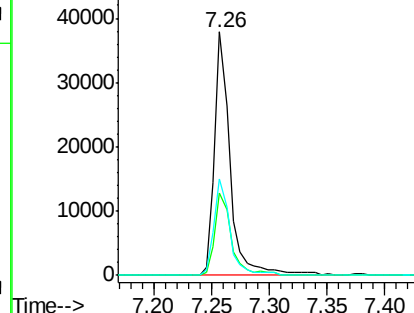
#23  
 Nitrobenzene-d5  
 Concen: 4.855 ng  
 RT: 7.26 min Scan# 879  
 Delta R.T. -0.02 min  
 Lab File: BF098297.D  
 Acq: 7 Sep 2017 2:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-46A-0-3-COMP

| Tot Ion   | 82    | Resp  | 35954 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 33.9  | 34.0  | 51.0# |
| 54        | 39.7  | 42.2  | 63.2# |

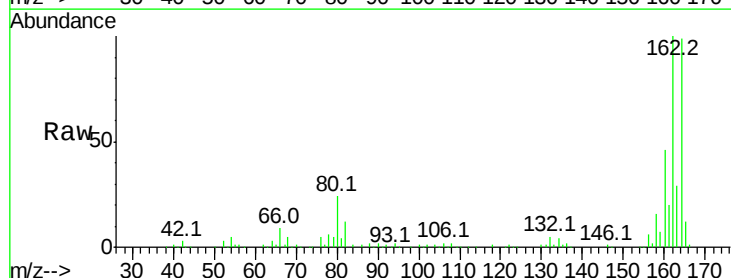


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

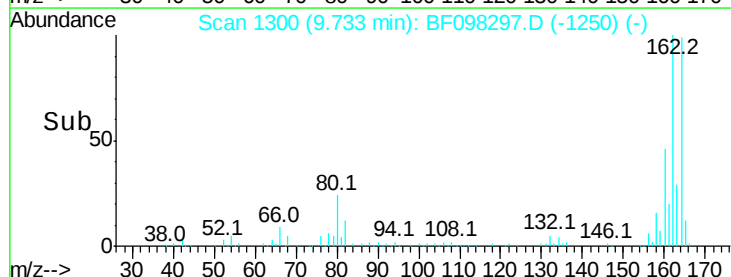
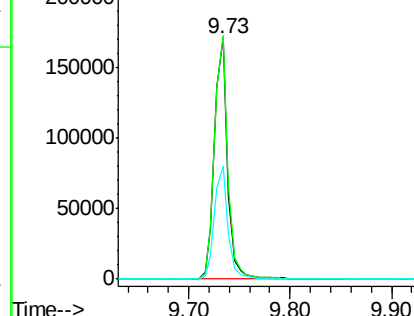


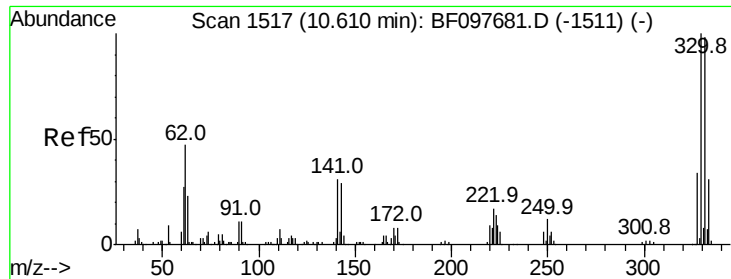
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: BF098297.D  
 Acq: 7 Sep 2017 2:44

| Tgt Ion   | 164   | Resp  | 154871 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 101.2 | 82.6  | 123.8  |
| 160       | 47.0  | 36.2  | 54.2   |



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

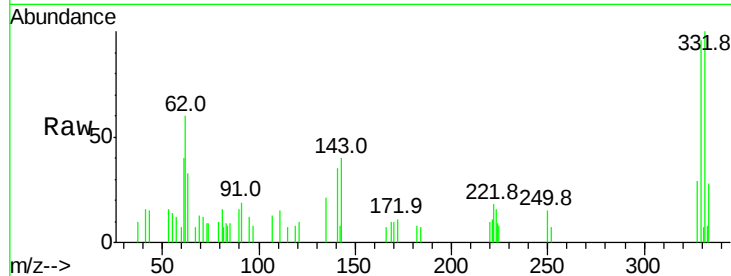




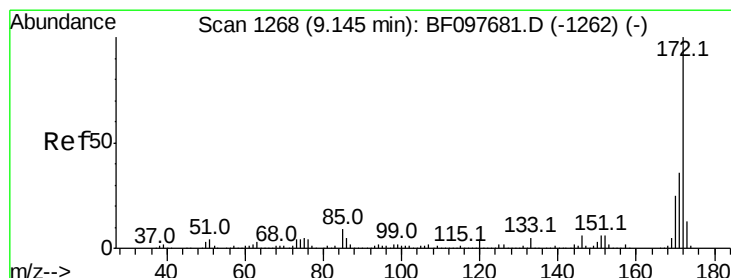
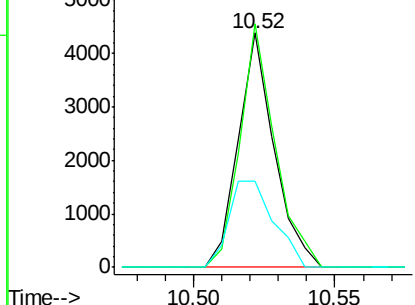
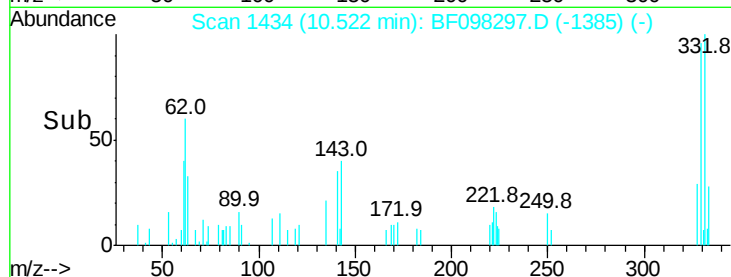
#41  
 2,4,6-Tribromophenol  
 Concen: 2.887 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF098297.D  
 Acq: 7 Sep 2017 2:44

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-46A-0-3-COMP

Tot Ion:330 Resp: 3879  
 Ion Ratio Lower Upper  
 330 100  
 332 101.1 76.6 115.0  
 141 46.1 31.4 47.2

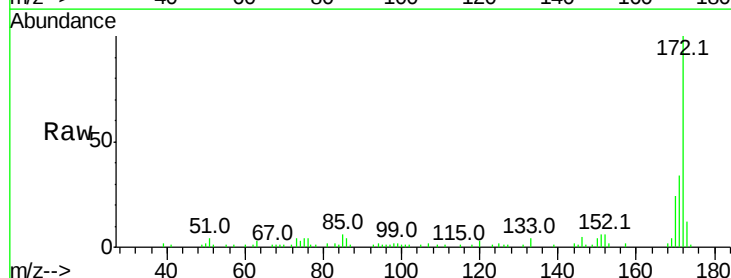


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

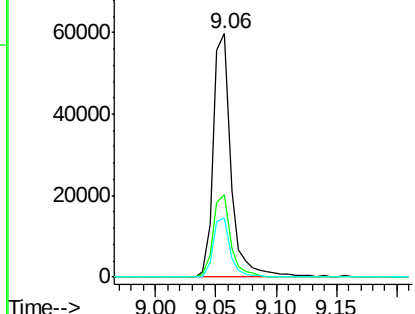
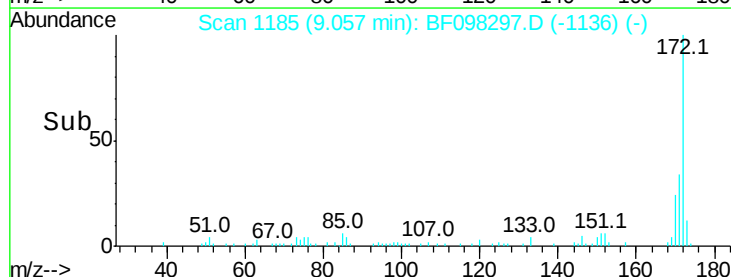


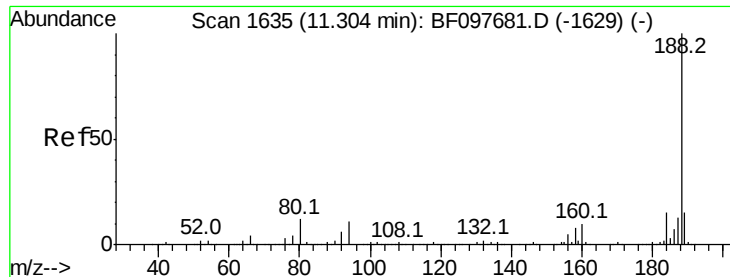
#44  
 2-Fluorobiphenyl  
 Concen: 5.741 ng  
 RT: 9.06 min Scan# 1185  
 Delta R.T. -0.01 min  
 Lab File: BF098297.D  
 Acq: 7 Sep 2017 2:44

Tgt Ion:172 Resp: 60513  
 Ion Ratio Lower Upper  
 172 100  
 171 33.9 29.6 44.4  
 170 24.4 19.8 29.8



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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.22 min Scan# 1552

Delta R.T. -0.01 min

Lab File: BF098297.D

Acq: 7 Sep 2017 2:44

Instrument :

BNA\_F

ClientSampleId :

G-46A-0-3-COMP

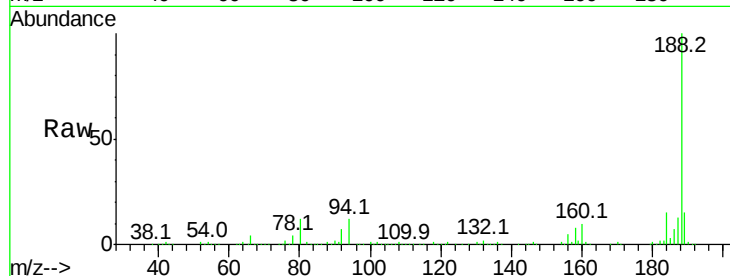
Tot Ion:188 Resp: 265289

Ion Ratio Lower Upper

188 100

94 11.6 9.4 14.2

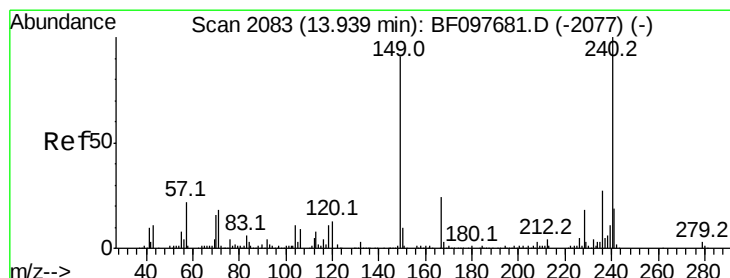
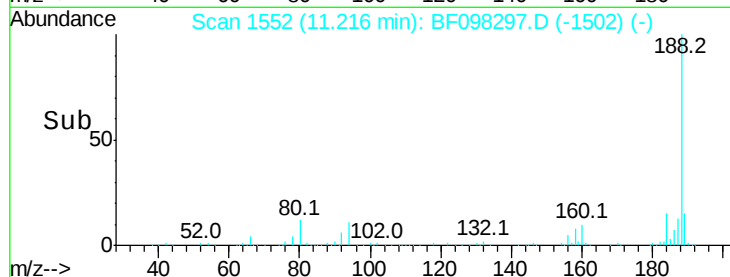
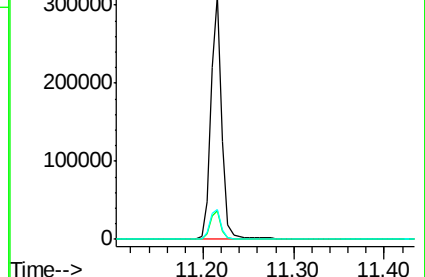
80 12.2 10.2 15.2



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: 20.000 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF098297.D

Acq: 7 Sep 2017 2:44

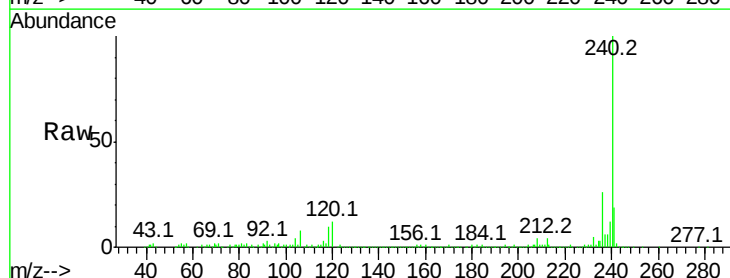
Tgt Ion:240 Resp: 249644

Ion Ratio Lower Upper

240 100

120 12.0 5.8 8.8#

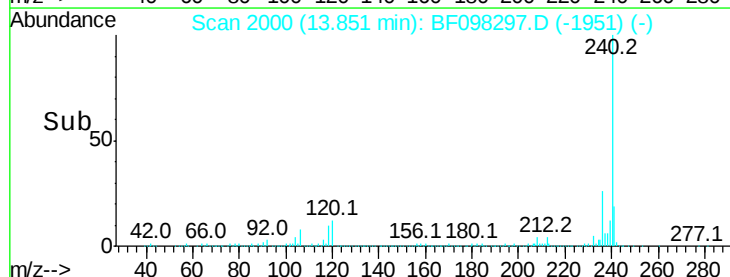
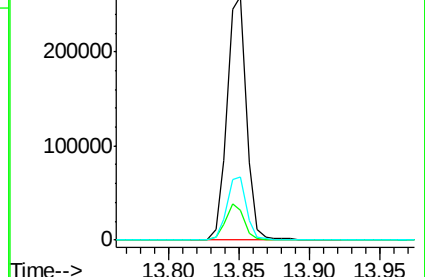
236 26.0 20.5 30.7

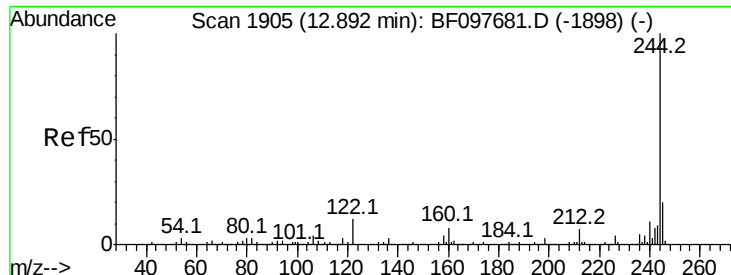


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

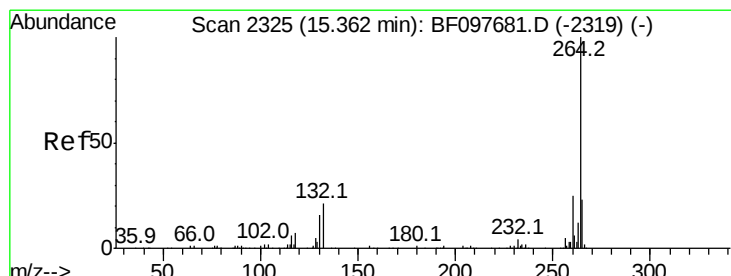
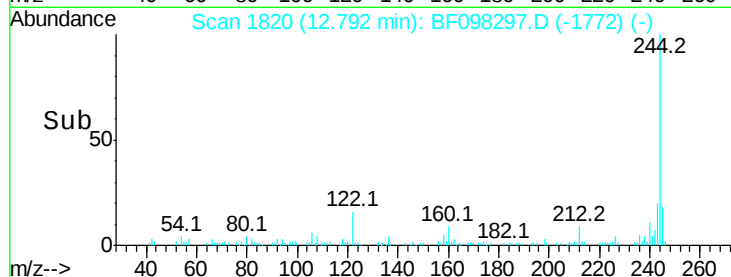
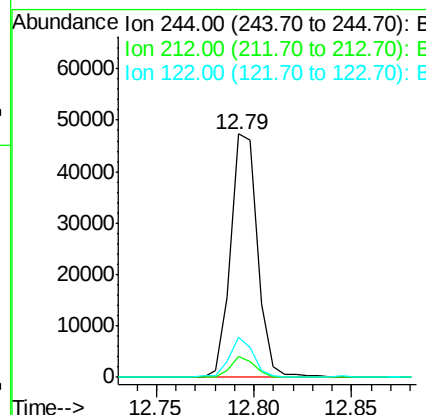
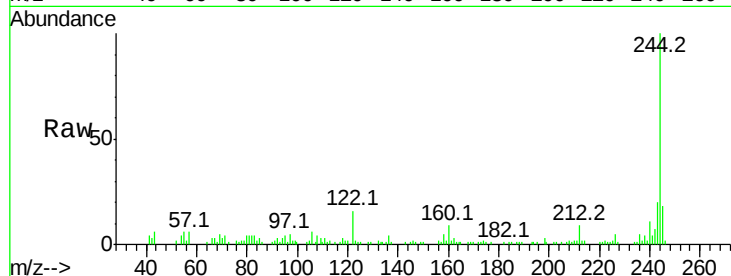




#78  
 Terphenyl-d14  
 Concen: 3.787 ng  
 RT: 12.79 min Scan# 1820  
 Delta R.T. -0.02 min  
 Lab File: BF098297.D  
 Acq: 7 Sep 2017 2:44

Instrument :  
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 G-46A-0-3-COMP

Tot Ion:244 Resp: 45336  
 Ion Ratio Lower Upper  
 244 100  
 212 8.5 6.0 9.0  
 122 16.2 10.3 15.5#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.26 min Scan# 2239  
 Delta R.T. -0.01 min  
 Lab File: BF098297.D  
 Acq: 7 Sep 2017 2:44

Tgt Ion:264 Resp: 167249  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 19.5 29.3  
 265 21.9 17.2 25.8

