

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042617\  
 Data File : BF094649.D  
 Acq On : 26 Apr 2017 16:19  
 Operator : SJ/MA  
 Sample : I2782-08RE  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HW-23-42017RE

Quant Time: Apr 27 04:03:11 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 17 14:59:23 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.75  | 152  | 146176   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.24  | 136  | 627802   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.38  | 164  | 302347   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.20 | 188  | 575115   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 14.45 | 240  | 496006   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 16.08 | 264  | 357335   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 4.30  | 112  | 139898   | 15.88 | ng    | 0.00     |
| 7) Phenol-d6                | 5.37  | 99   | 110782   | 10.67 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 6.40  | 82   | 247303   | 24.32 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.35 | 330  | 104256   | 44.08 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.57  | 172  | 567092   | 27.60 | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.18 | 244  | 518823   | 27.96 | ng    | -0.02    |

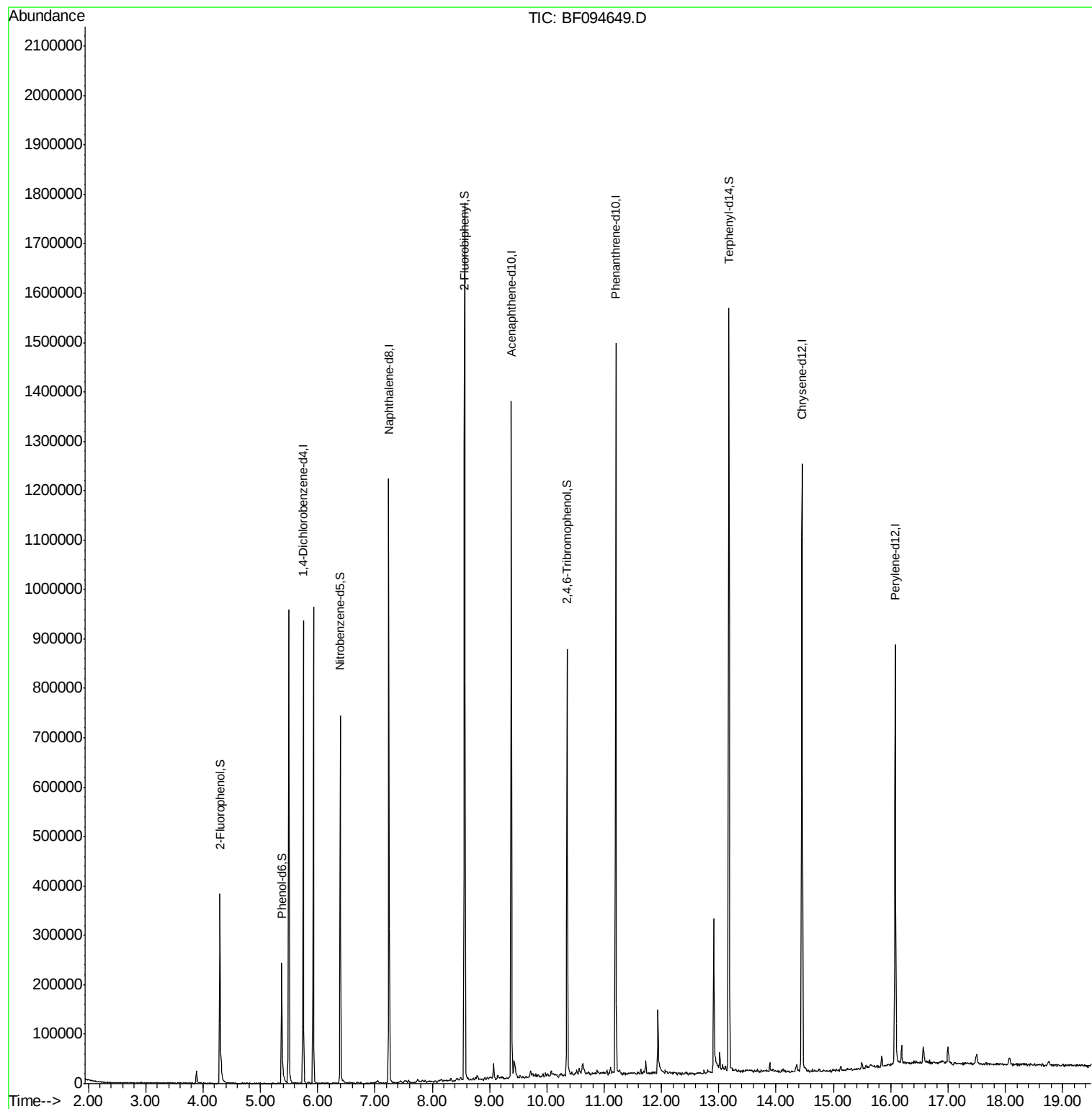
Target Compounds Qvalue

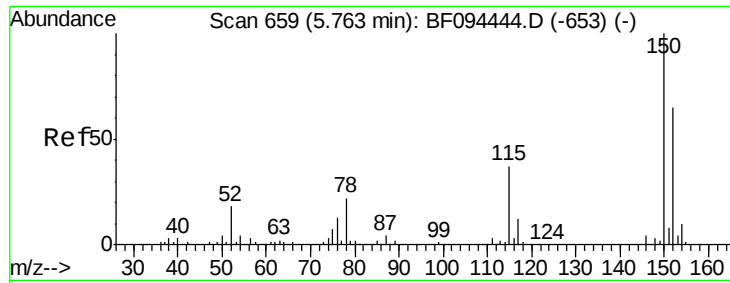
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.75 min Scan# 648

Delta R.T. -0.01 min

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BNA\_F

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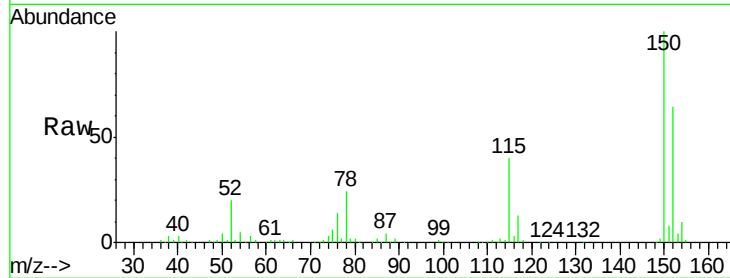
Tot Ion:152 Resp: 146176

Ion Ratio Lower Upper

152 100

150 156.5 126.2 189.2

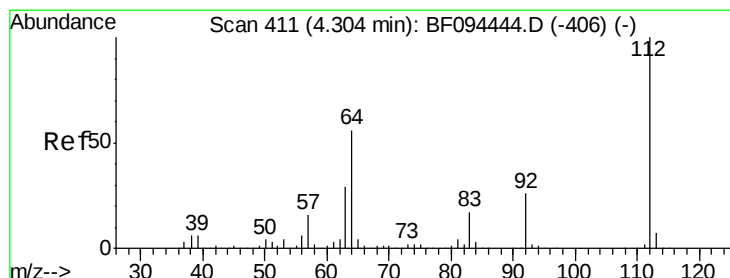
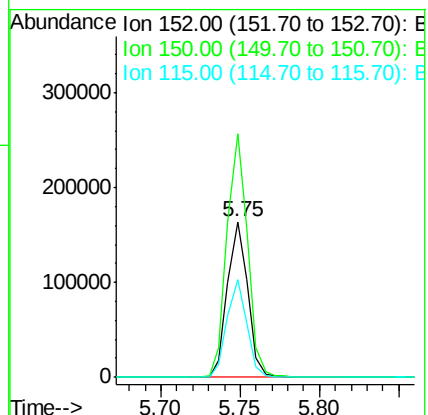
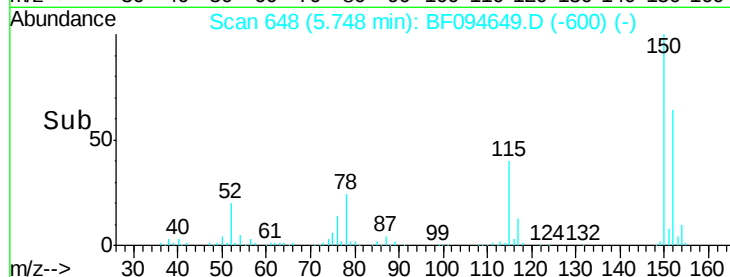
115 62.5 52.2 78.2



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: 15.88 ng

RT: 4.30 min Scan# 401

Delta R.T. -0.01 min

Lab File: BF094649.D

Acq: 26 Apr 2017 16:19

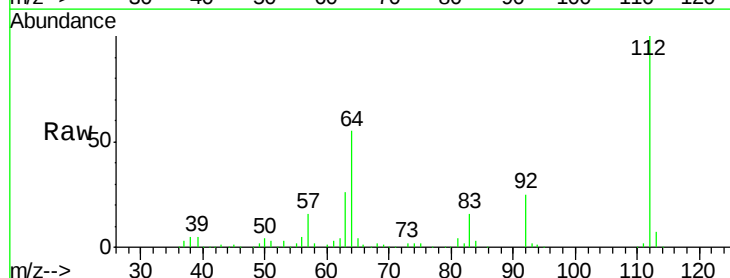
Tgt Ion:112 Resp: 139898

Ion Ratio Lower Upper

112 100

64 54.9 46.0 69.0

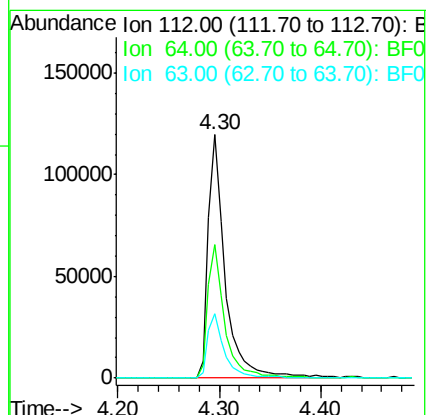
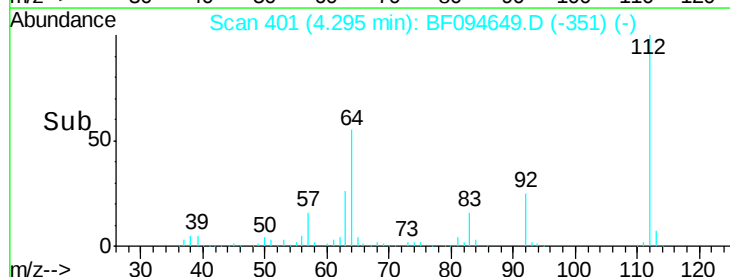
63 26.4 23.4 35.0

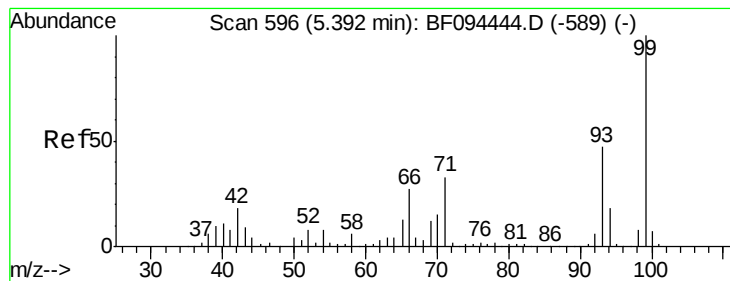


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 10.67 ng

RT: 5.37 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF094649.D

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Instrument :

BNA\_F

ClientSampleId :

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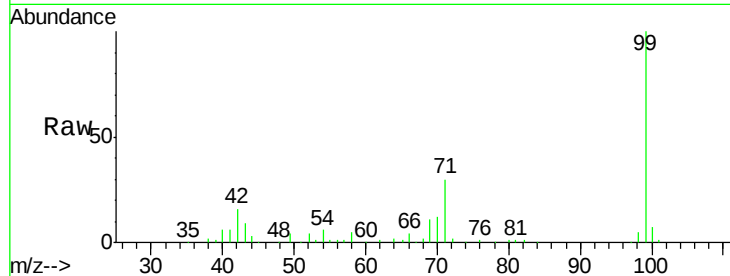
Tot Ion: 99 Resp: 110782

Ion Ratio Lower Upper

99 100

42 16.0 13.5 20.3

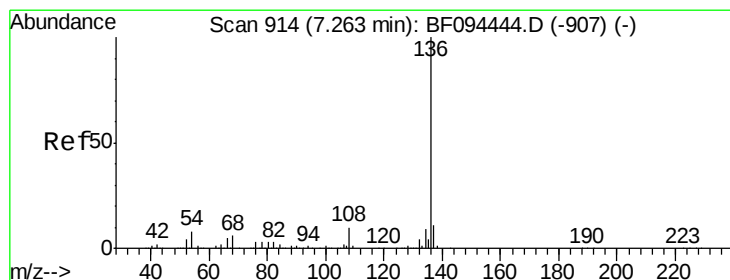
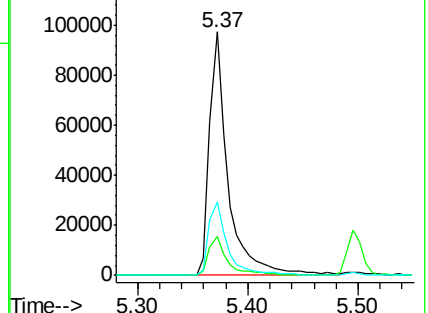
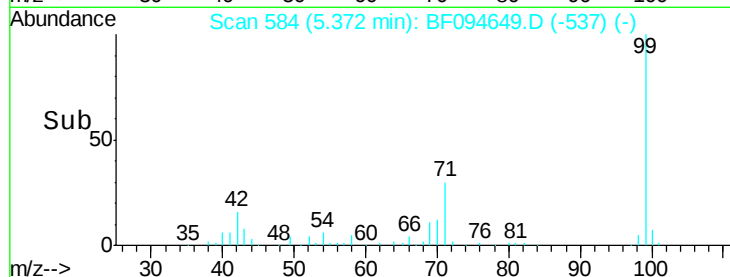
71 29.9 24.5 36.7



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: 20.00 ng

RT: 7.24 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF094649.D

Acq: 26 Apr 2017 16:19

Tgt Ion: 136 Resp: 627802

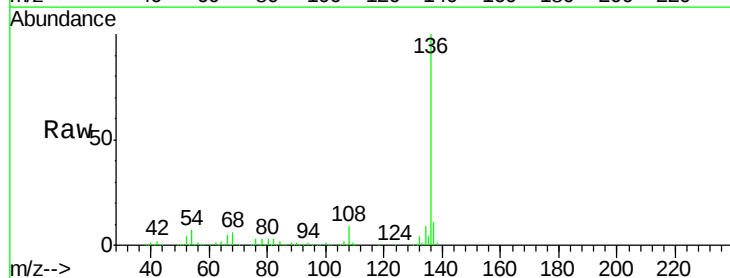
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.3 4.9 7.3#

68 5.6 4.1 6.1

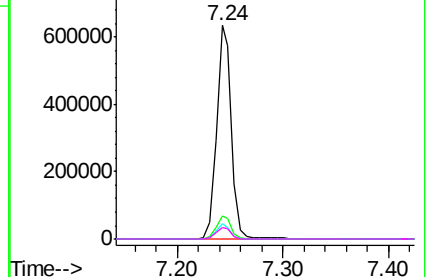
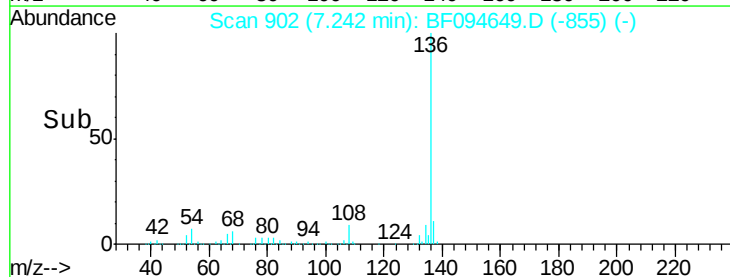


Abundance Ion 136.00 (135.70 to 136.70): E

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

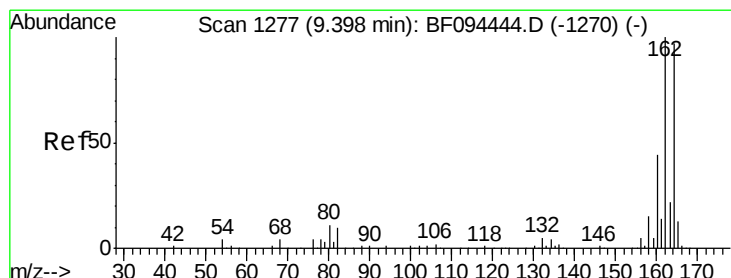
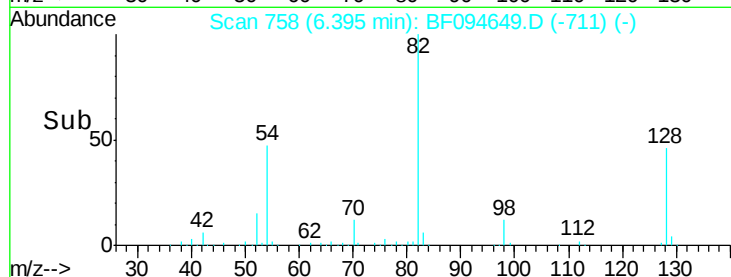
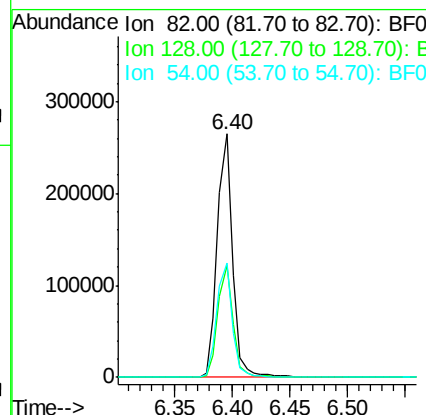
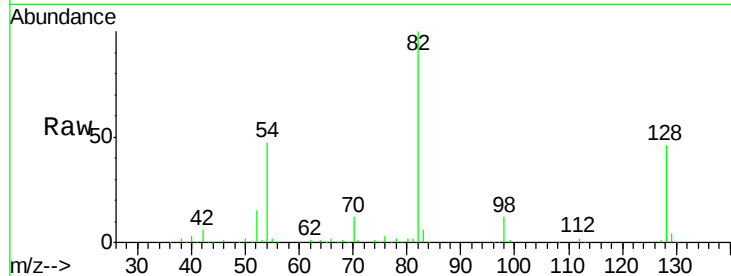




#23  
 Nitrobenzene-d5  
 Concen: 24.32 ng  
 RT: 6.40 min Scan# 758  
 Delta R.T. -0.02 min  
 Lab File: BF094649.D  
 Acq: 26 Apr 2017 16:19

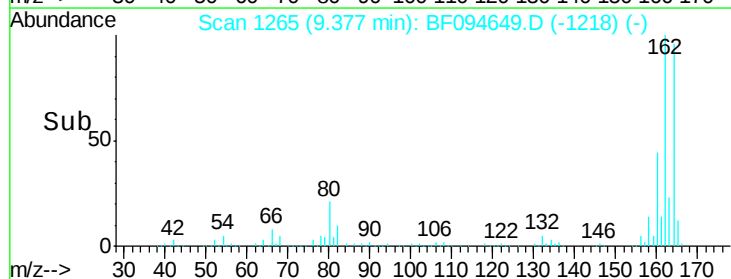
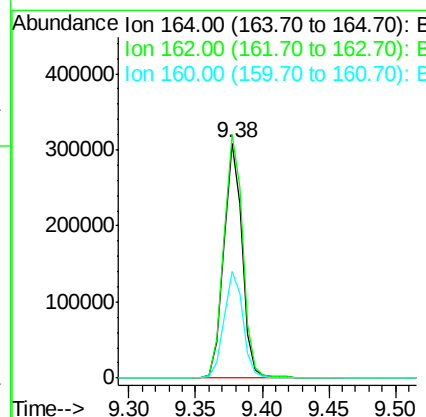
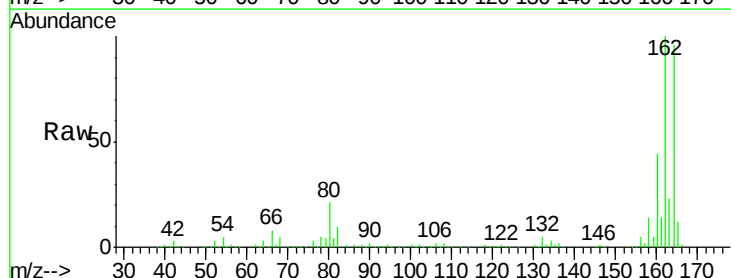
Instrument :  
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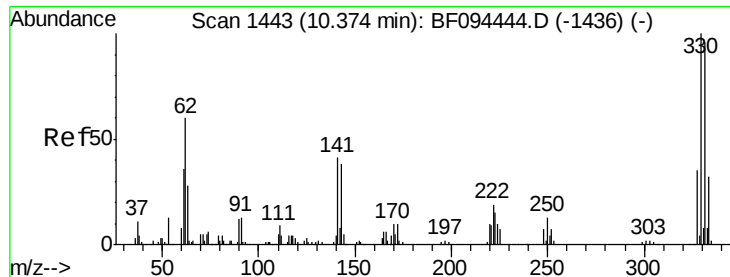
Tot Ion: 82 Resp: 247303  
 Ion Ratio Lower Upper  
 82 100  
 128 46.2 34.0 51.0  
 54 46.9 42.2 63.2



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.38 min Scan# 1265  
 Delta R.T. -0.02 min  
 Lab File: BF094649.D  
 Acq: 26 Apr 2017 16:19

Tgt Ion:164 Resp: 302347  
 Ion Ratio Lower Upper  
 164 100  
 162 103.7 82.6 123.8  
 160 45.7 36.2 54.2

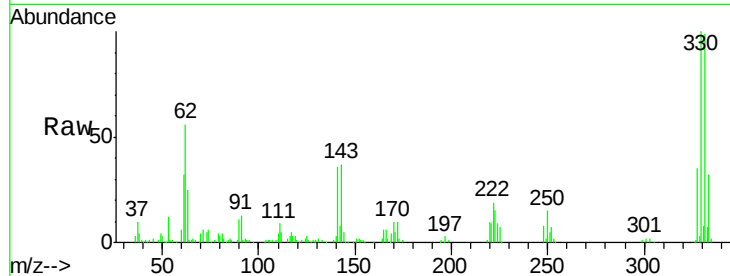




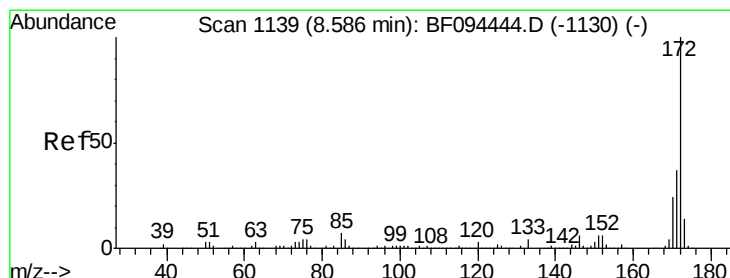
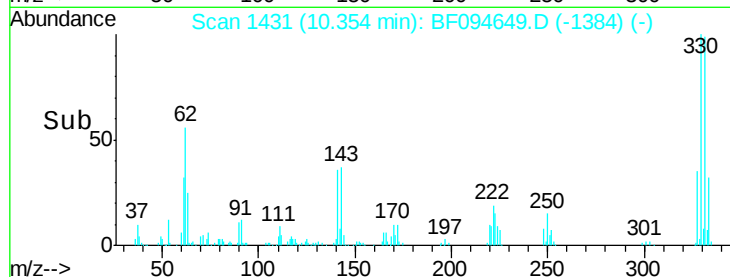
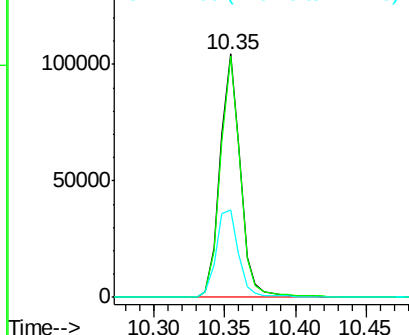
#41  
 2,4,6-Tribromophenol  
 Concen: 44.08 ng  
 RT: 10.35 min Scan# 1431  
 Delta R.T. -0.02 min  
 Lab File: BF094649.D  
 Acq: 26 Apr 2017 16:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HW-23-42017RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.4  | 76.6  | 115.0 |
| 141     | 40.4  | 31.4  | 47.2  |

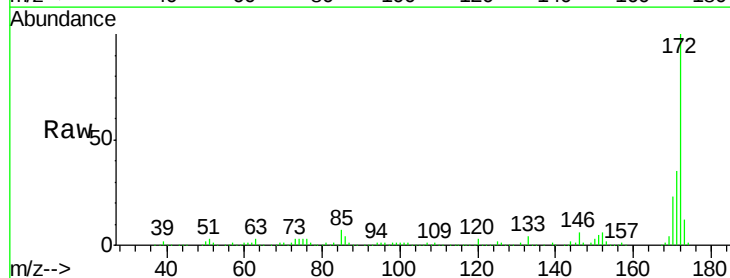


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

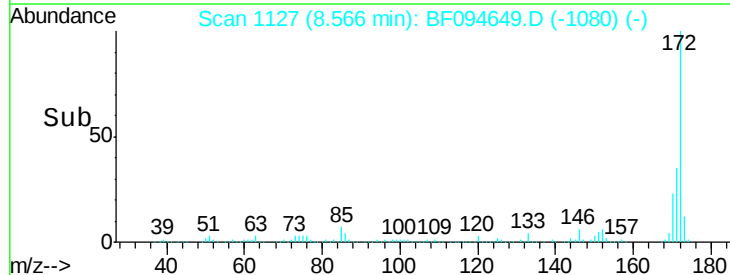
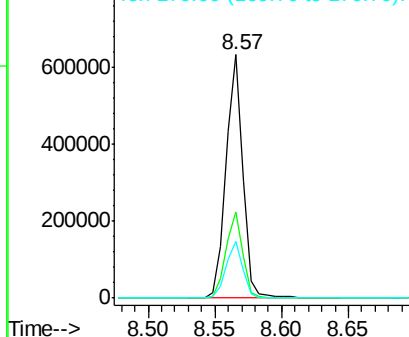


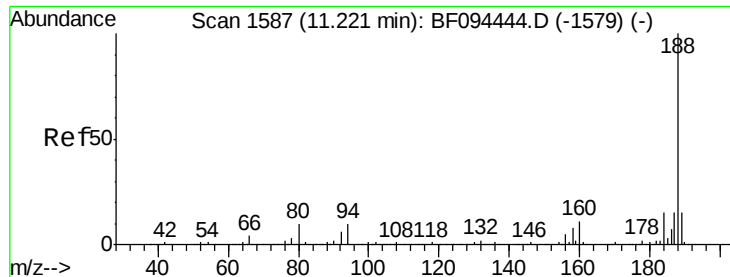
#44  
 2-Fluorobiphenyl  
 Concen: 27.60 ng  
 RT: 8.57 min Scan# 1127  
 Delta R.T. -0.02 min  
 Lab File: BF094649.D  
 Acq: 26 Apr 2017 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 29.6  | 44.4  |
| 170     | 23.1  | 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

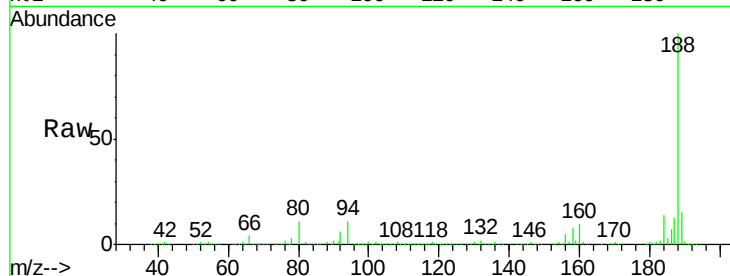




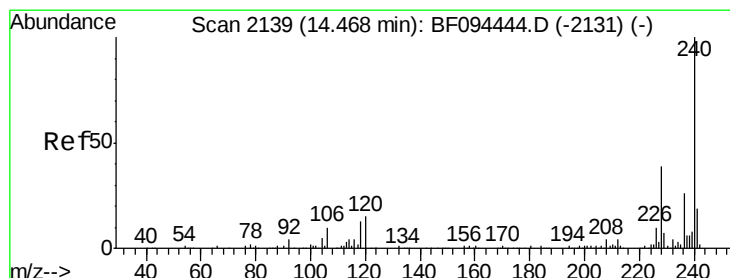
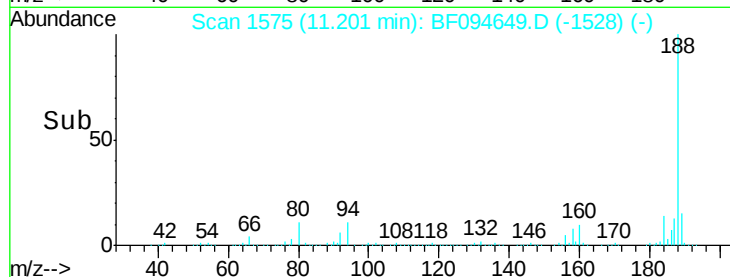
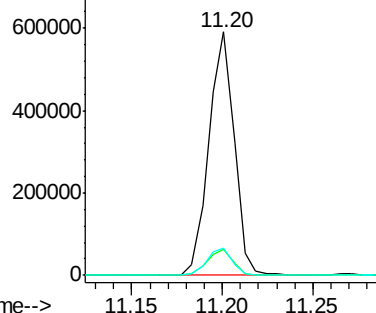
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.20 min Scan# 1575  
Delta R.T. -0.02 min  
Lab File: BF094649.D  
Acq: 26 Apr 2017 16:19

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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.6  | 9.4   | 14.2  |
| 80      | 11.5  | 10.2  | 15.2  |

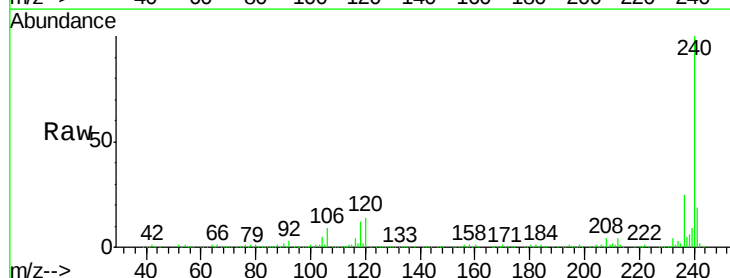


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

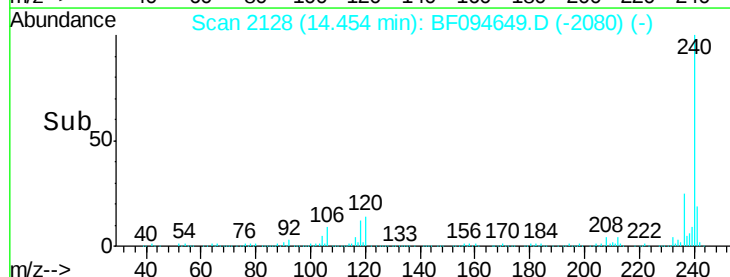
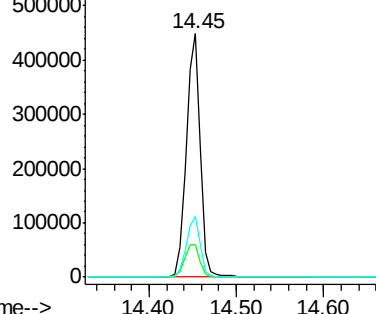


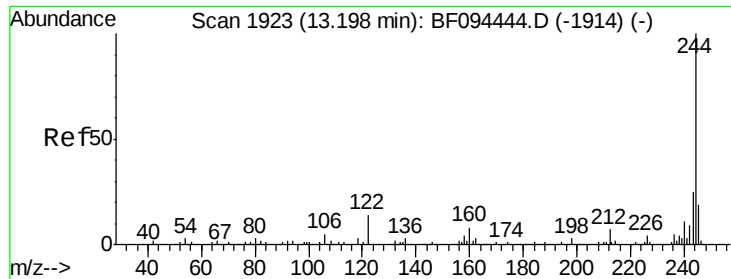
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.45 min Scan# 2128  
Delta R.T. -0.01 min  
Lab File: BF094649.D  
Acq: 26 Apr 2017 16:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.5  | 5.8   | 8.8#  |
| 236     | 25.0  | 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

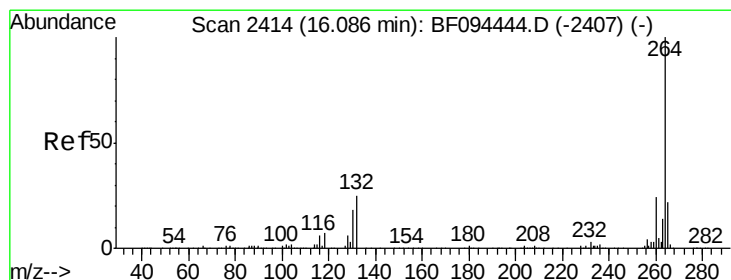
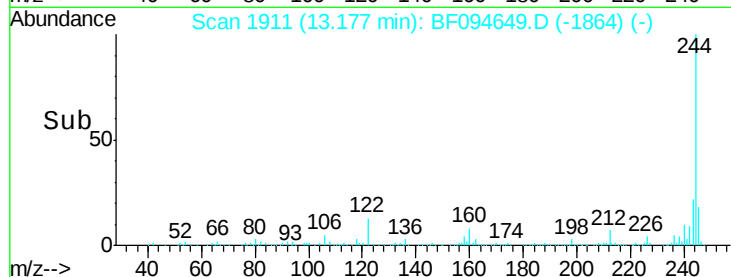
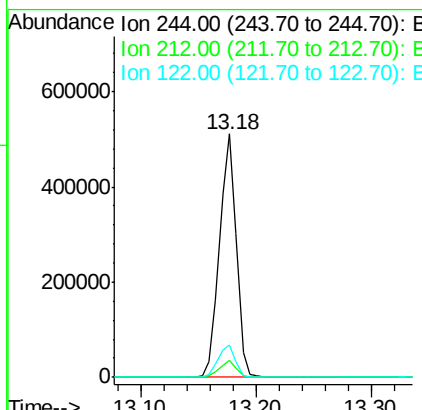
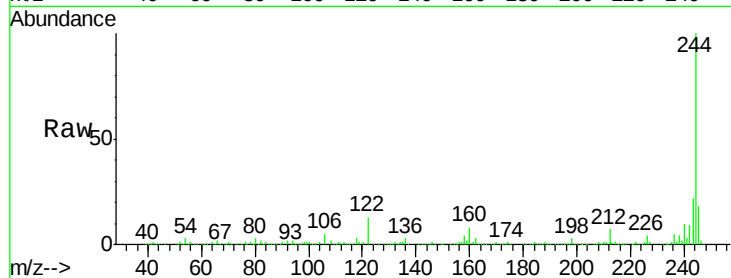




#78  
 Terphenyl-d14  
 Concen: 27.96 ng  
 RT: 13.18 min Scan# 1911  
 Delta R.T. -0.02 min  
 Lab File: BF094649.D  
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Instrument :  
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Tot Ion:244 Resp: 518823  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 6.0 9.0  
 122 13.4 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.08 min Scan# 2404  
 Delta R.T. -0.01 min  
 Lab File: BF094649.D  
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Tgt Ion:264 Resp: 357335  
 Ion Ratio Lower Upper  
 264 100  
 260 23.1 19.5 29.3  
 265 21.7 17.2 25.8

