

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF032317\  
 Data File : BF093894.D  
 Acq On : 23 Mar 2017 22:43  
 Operator : SJ/MA  
 Sample : I2367-09  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-CC10-BASE

Quant Time: Mar 24 13:23:01 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 23 02:02:22 2017  
 Response via : Initial Calibration

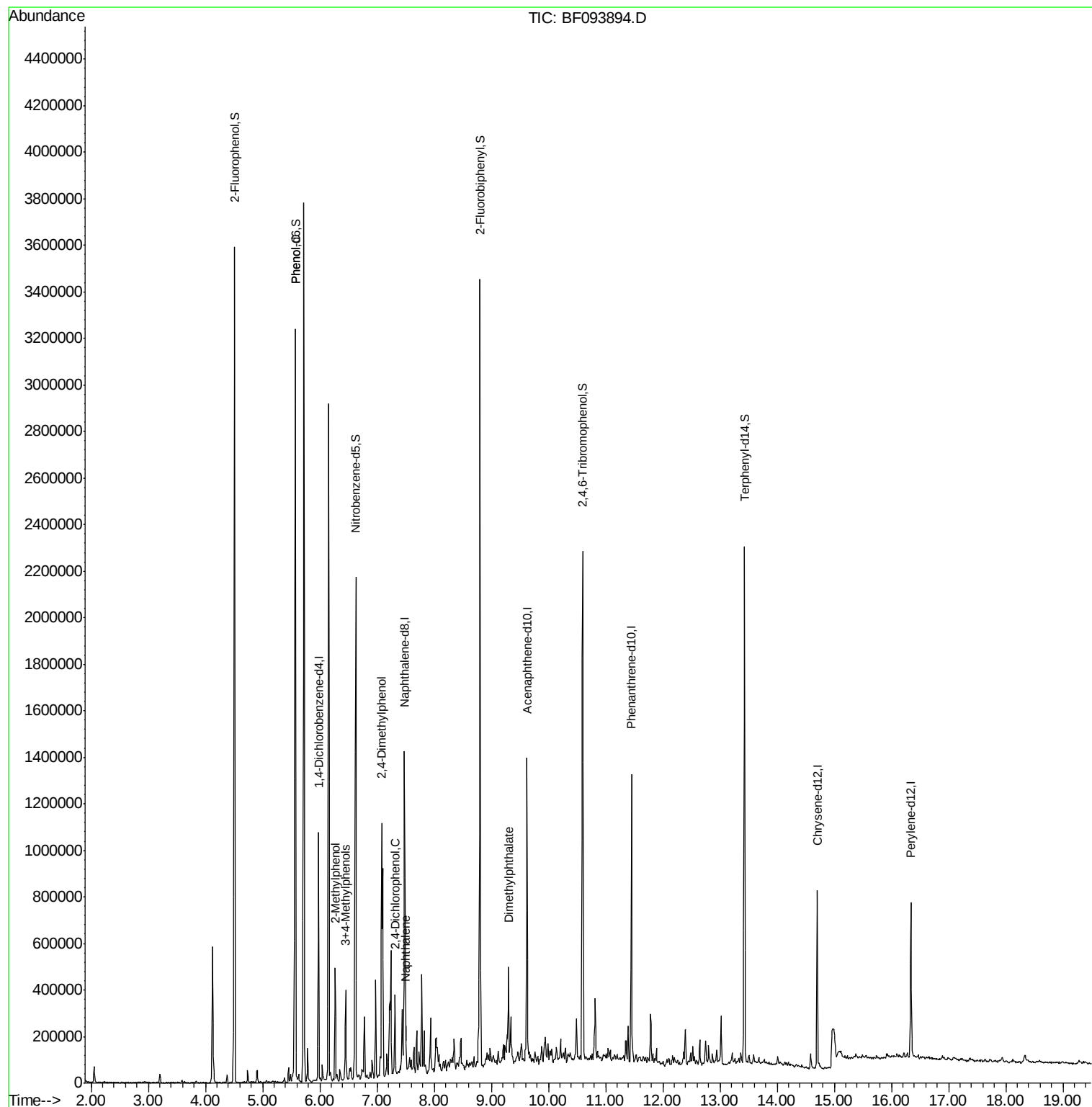
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 5.97  | 152  | 163851   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.48  | 136  | 653688   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.62  | 164  | 289565   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.45 | 188  | 481865   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 14.70 | 240  | 297625   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 16.34 | 264  | 281133   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 4.51  | 112  | 1126691  | 116.14 | ng    | 0.00     |
| 7) Phenol-d6                | 5.57  | 99   | 1436988  | 119.74 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 6.63  | 82   | 890781   | 77.77  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 288888   | 126.25 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.80  | 172  | 1249176  | 65.80  | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.43 | 244  | 776289   | 58.46  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 5.58  | 94   | 40748    | 2.98   | ng    | 89       |
| 17) 2-Methylphenol          | 6.27  | 107  | 82693    | 9.06   | ng    | 96       |
| 20) 3+4-Methylphenols       | 6.45  | 107  | 97619    | 8.83   | ng    | # 62     |
| 27) 2,4-Dimethylphenol      | 7.08  | 122  | 350617   | 37.77  | ng    | 99       |
| 29) 2,4-Dichlorophenol      | 7.31  | 162  | 35199    | 4.06   | ng    | 95       |
| 31) Naphthalene             | 7.50  | 128  | 89166    | 2.84   | ng    | 100      |
| 49) Dimethylphthalate       | 9.30  | 163  | 164811   | 8.01   | ng    | 99       |

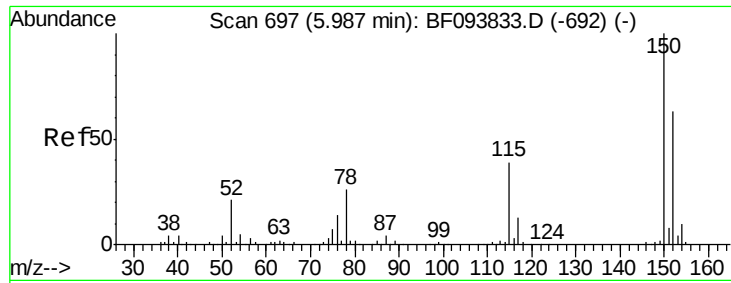
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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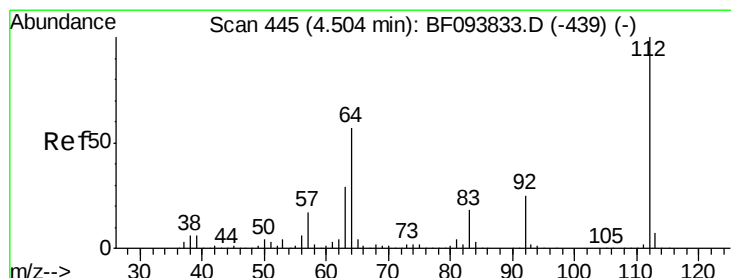
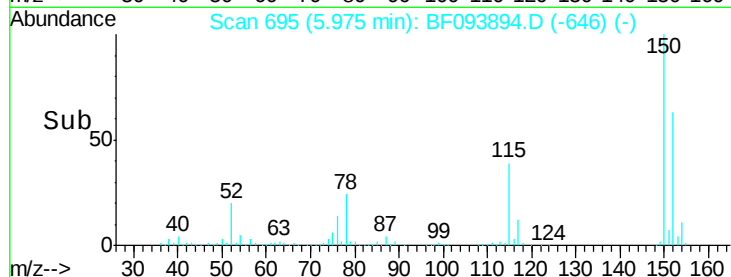
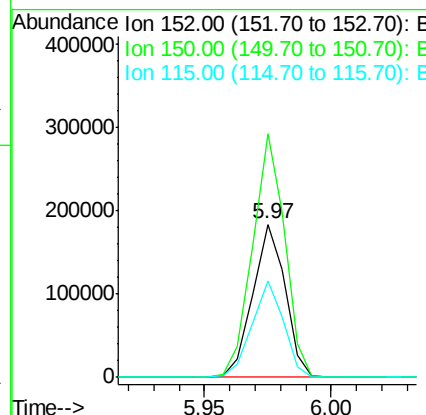
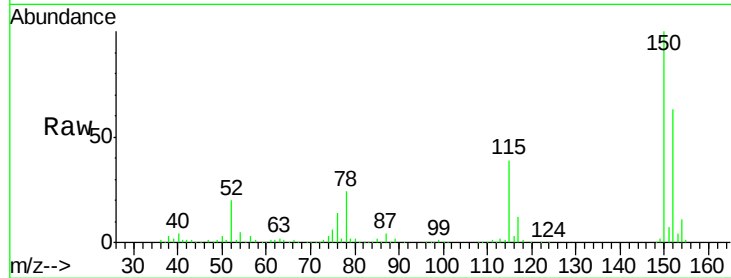




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 5.97 min Scan# 695  
 Delta R.T. -0.01 min  
 Lab File: BF093894.D  
 Acq: 23 Mar 2017 22:43

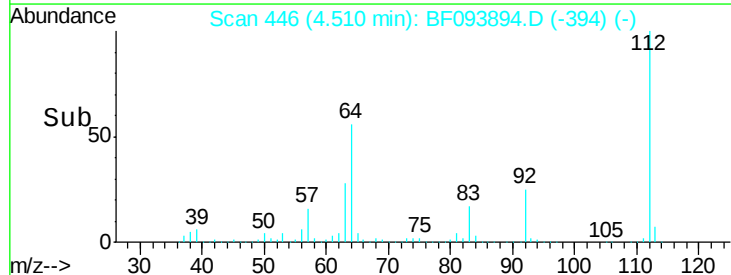
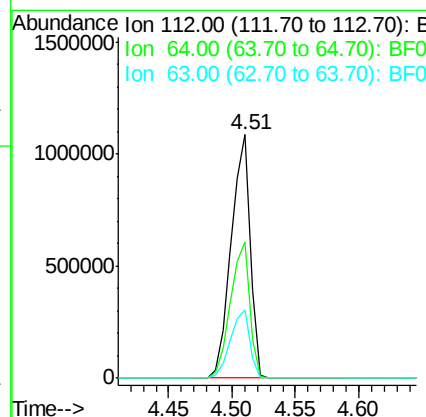
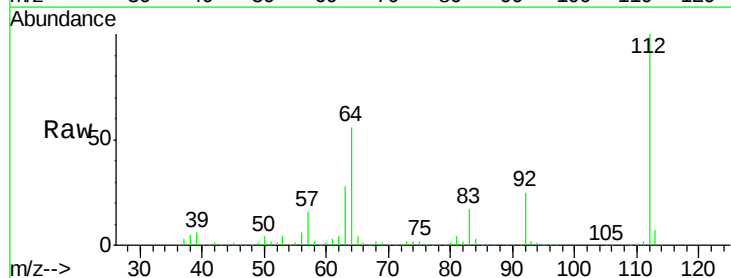
Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-CC10-BASE

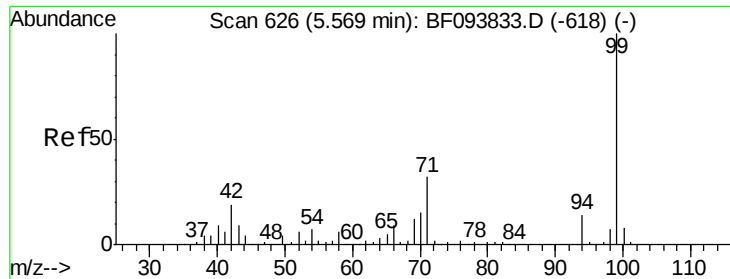
Tgt Ion:152 Resp: 163851  
 Ion Ratio Lower Upper  
 152 100  
 150 158.8 126.2 189.2  
 115 62.7 52.2 78.2



#5  
 2-Fluorophenol  
 Concen: 116.14 ng  
 RT: 4.51 min Scan# 446  
 Delta R.T. 0.01 min  
 Lab File: BF093894.D  
 Acq: 23 Mar 2017 22:43

Tgt Ion:112 Resp: 1126691  
 Ion Ratio Lower Upper  
 112 100  
 64 56.0 46.0 69.0  
 63 28.2 23.4 35.0





#7

Phenol-d6

Concen: 119.74 ng

RT: 5.57 min Scan# 627

Delta R.T. 0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

Instrument :

BNA\_F

ClientSampleId :

E2-CC10-BASE

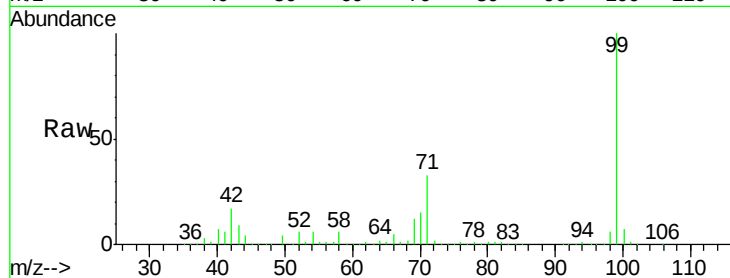
Tgt Ion: 99 Resp: 1436988

Ion Ratio Lower Upper

99 100

42 17.4 13.5 20.3

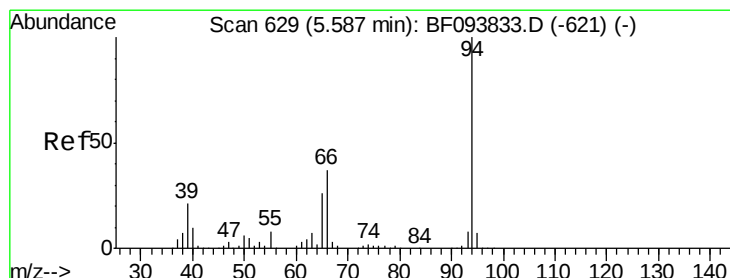
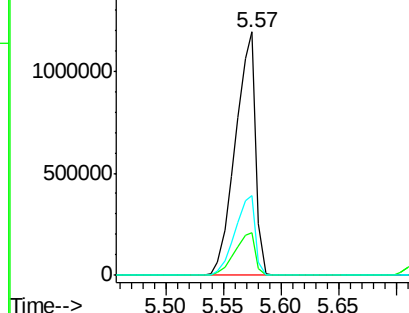
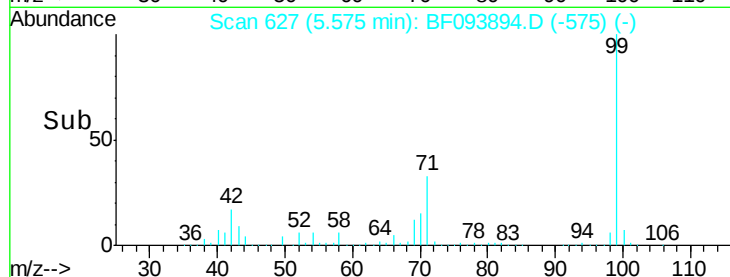
71 32.8 24.5 36.7



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



#10

Phenol

Concen: 2.98 ng

RT: 5.58 min Scan# 628

Delta R.T. -0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

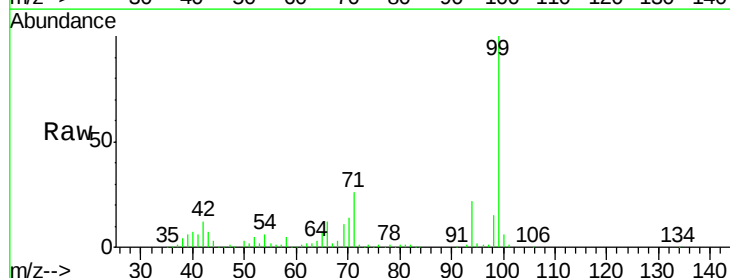
Tgt Ion: 94 Resp: 40748

Ion Ratio Lower Upper

94 100

65 29.7 9.9 49.9

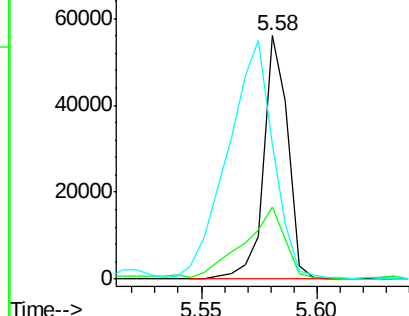
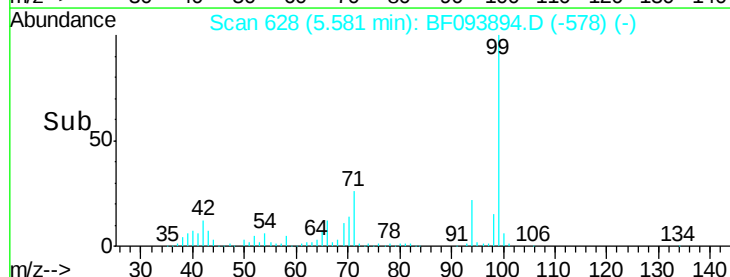
66 55.1 23.1 63.1

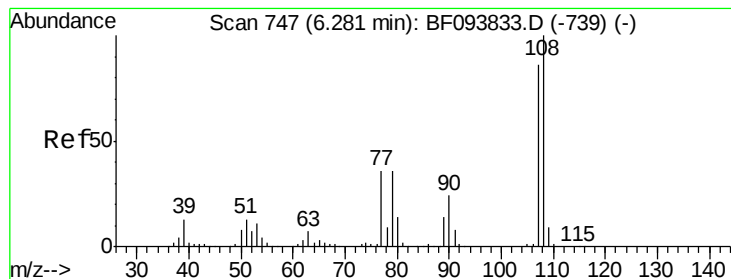


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#17

2-Methylphenol

Concen: 9.06 ng

RT: 6.27 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

Instrument :

BNA\_F

ClientSampleId :

E2-CC10-BASE

Tgt Ion:107 Resp: 82693

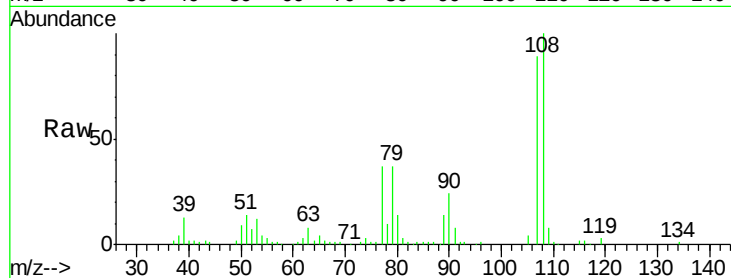
Ion Ratio Lower Upper

107 100

108 112.8 93.4 140.0

77 41.6 35.8 53.6

79 41.9 34.8 52.2

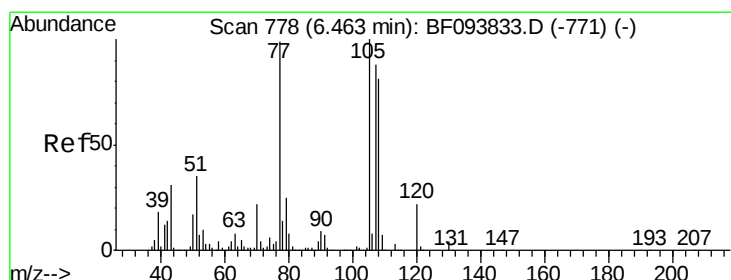
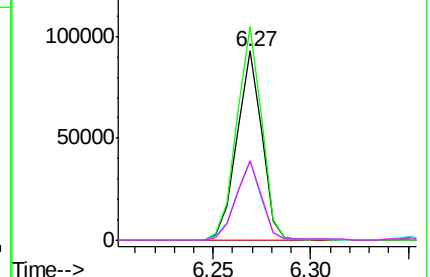
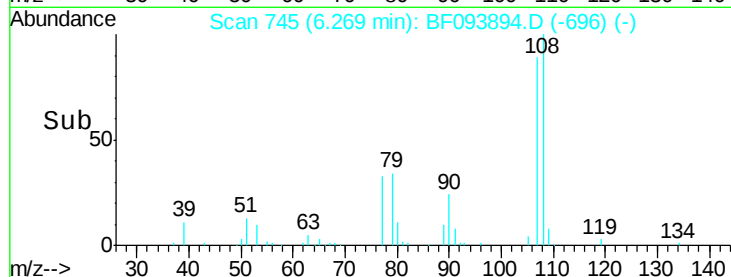


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#20

3+4-Methylphenols

Concen: 8.83 ng

RT: 6.45 min Scan# 776

Delta R.T. -0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

Tgt Ion:107 Resp: 97619

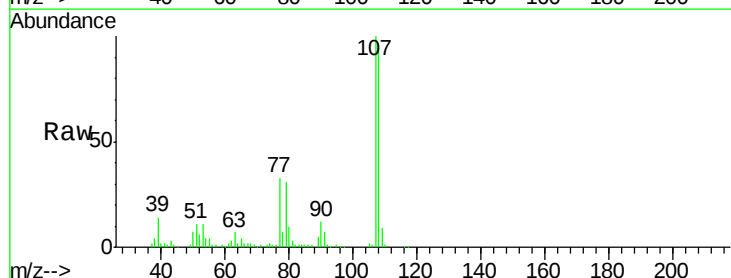
Ion Ratio Lower Upper

107 100

108 96.1 71.0 111.0

77 33.1 90.5 130.5#

79 30.5 8.4 48.4

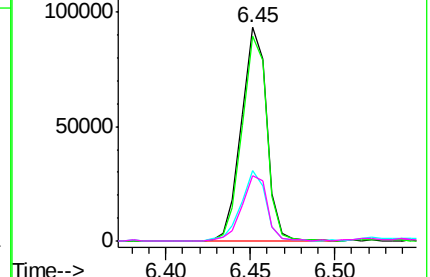
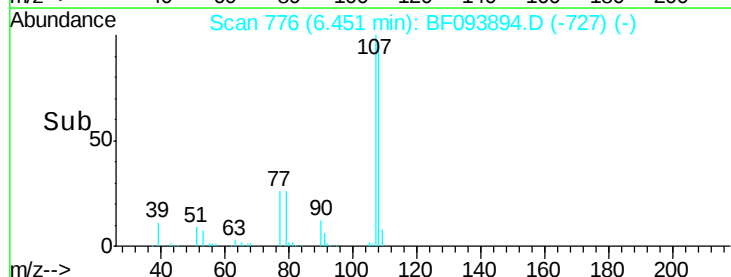


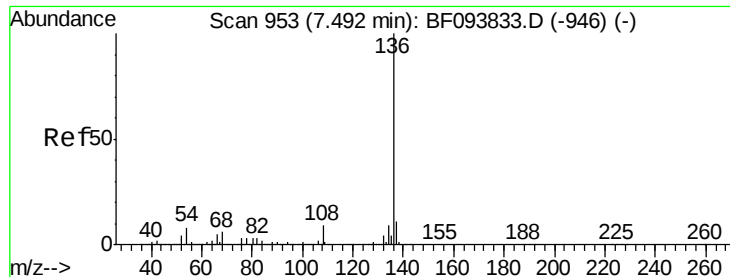
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

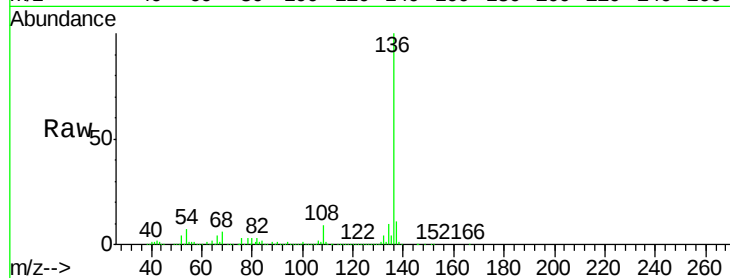




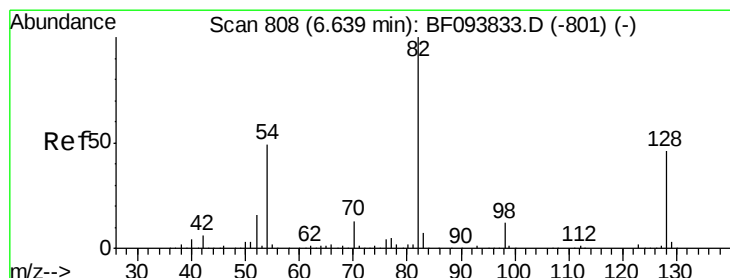
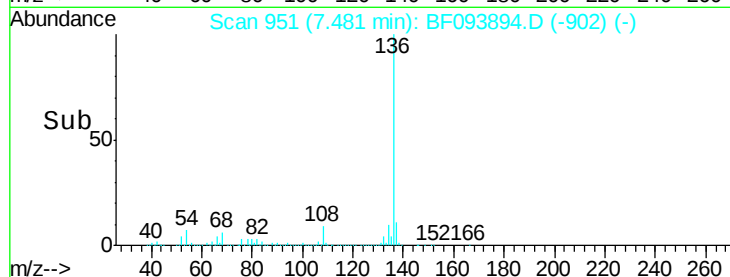
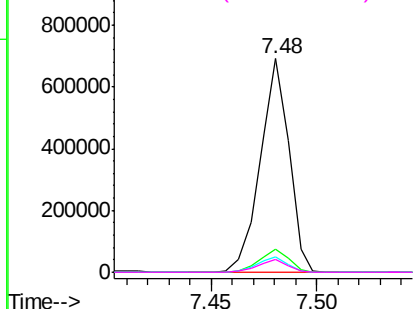
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.48 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: BF093894.D  
Acq: 23 Mar 2017 22:43

Instrument :  
BNA\_F  
ClientSampleId :  
E2-CC10-BASE

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 653688 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.5   | 12.7   |
| 54       | 7.3   | 4.9   | 7.3#   |
| 68       | 5.9   | 4.1   | 6.1    |

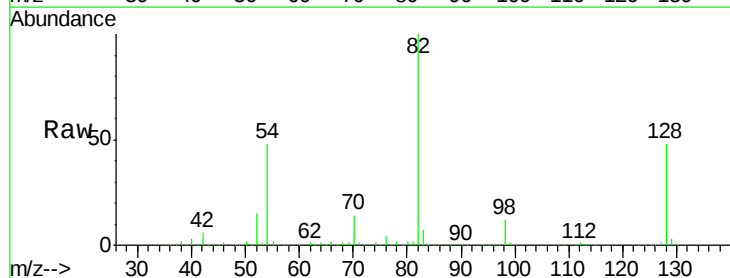


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

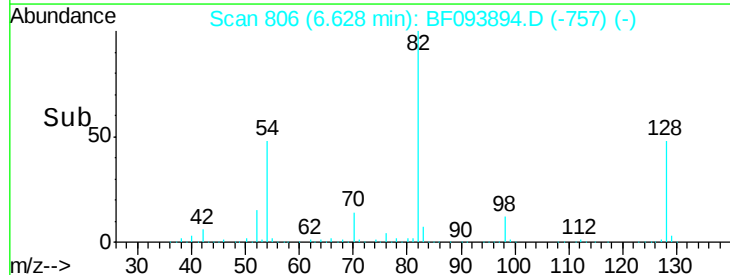
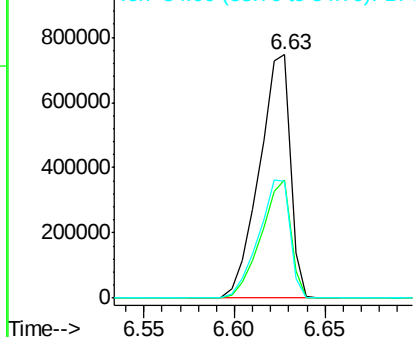


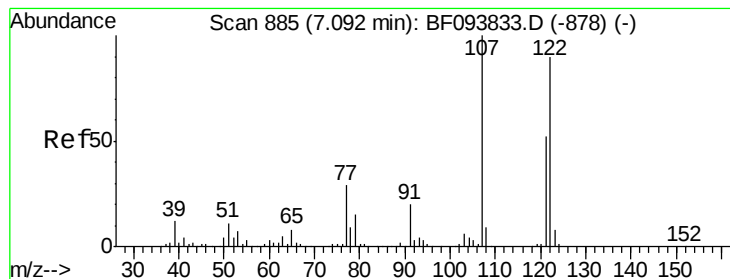
#23  
Nitrobenzene-d5  
Concen: 77.77 ng  
RT: 6.63 min Scan# 806  
Delta R.T. -0.01 min  
Lab File: BF093894.D  
Acq: 23 Mar 2017 22:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 890781 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 48.5  | 34.0  | 51.0   |
| 54       | 47.8  | 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





#27

2,4-Dimethylphenol

Concen: 37.77 ng

RT: 7.08 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

Instrument :

BNA\_F

ClientSampleId :

E2-CC10-BASE

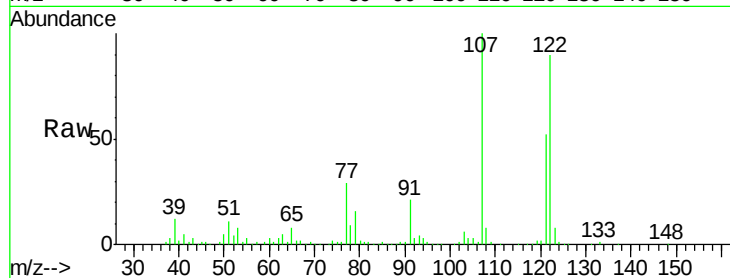
Tgt Ion:122 Resp: 350617

Ion Ratio Lower Upper

122 100

107 111.3 89.2 133.8

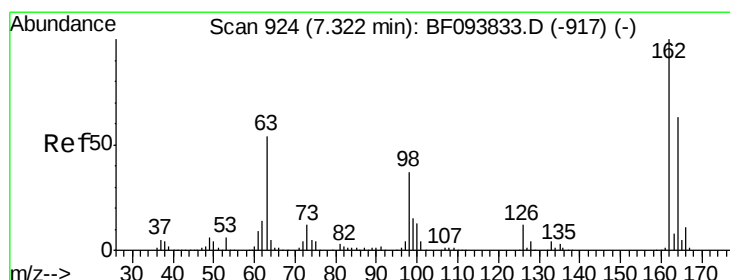
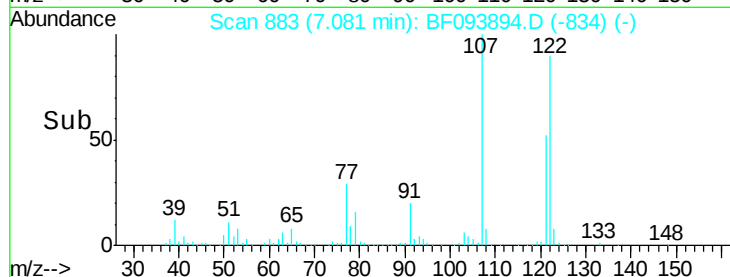
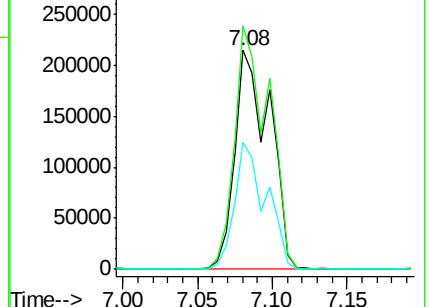
121 58.2 45.2 67.8



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



#29

2,4-Dichlorophenol

Concen: 4.06 ng

RT: 7.31 min Scan# 922

Delta R.T. -0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

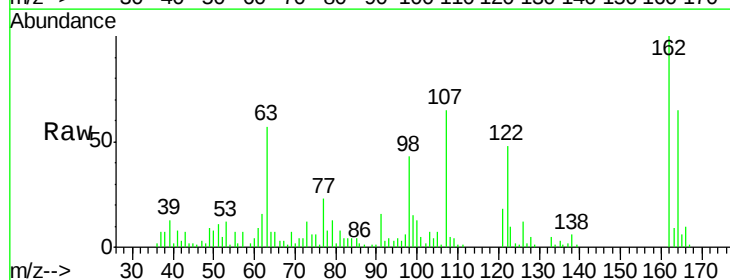
Tgt Ion:162 Resp: 35199

Ion Ratio Lower Upper

162 100

164 64.7 44.6 84.6

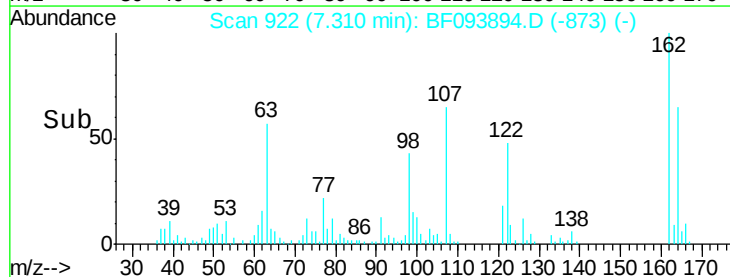
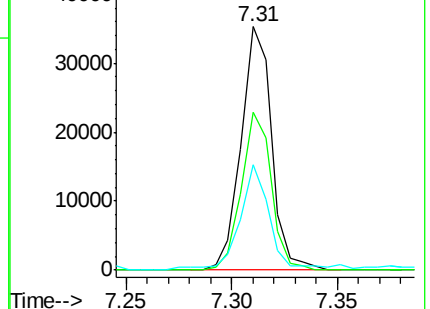
98 43.2 14.8 54.8

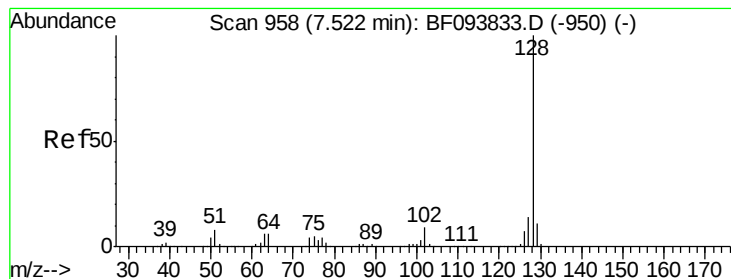


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF0





#31

Naphthalene

Concen: 2.84 ng

RT: 7.50 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

Instrument :

BNA\_F

ClientSampleId :

E2-CC10-BASE

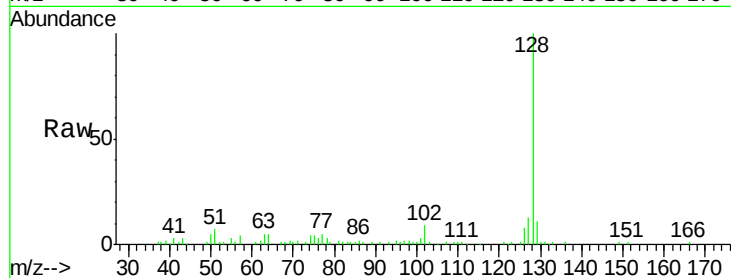
Tgt Ion:128 Resp: 89166

Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.6

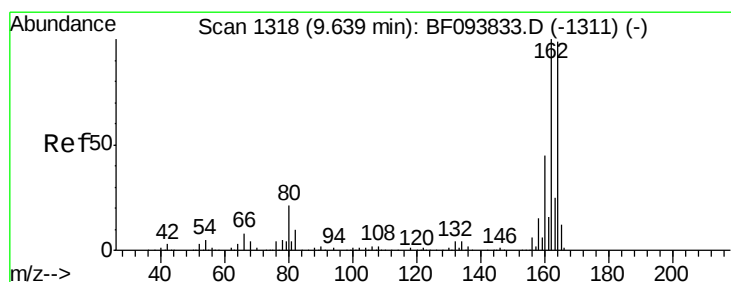
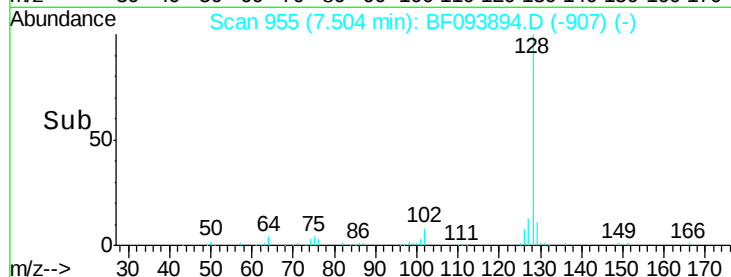
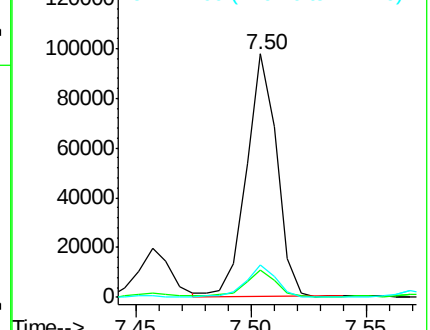
127 13.2 10.8 16.2



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: 9.62 min Scan# 1315

Delta R.T. -0.02 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

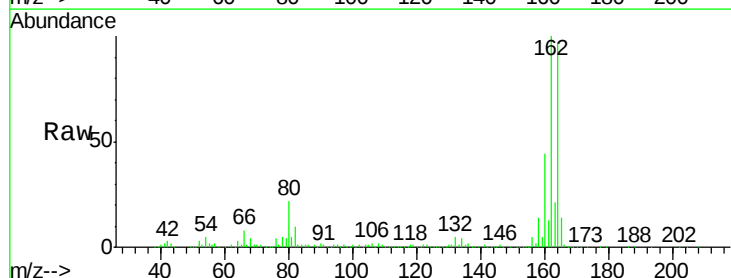
Tgt Ion:164 Resp: 289565

Ion Ratio Lower Upper

164 100

162 102.6 82.6 123.8

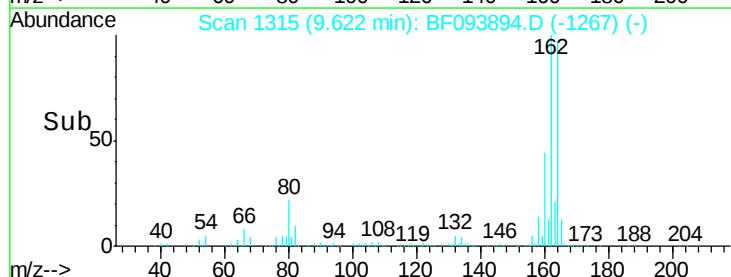
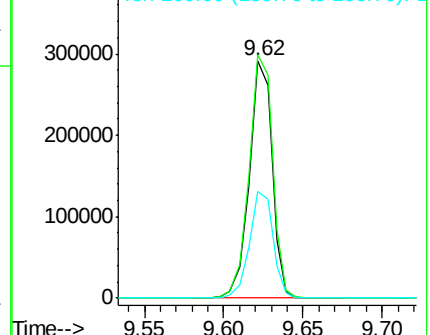
160 45.0 36.2 54.2

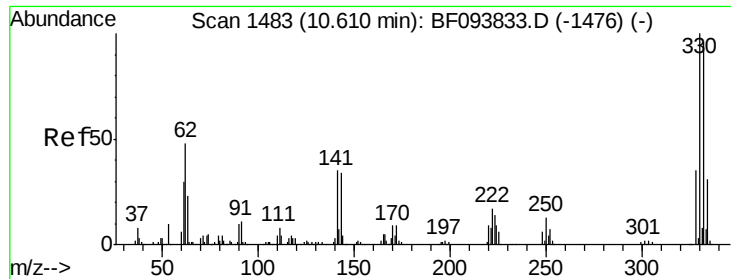


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

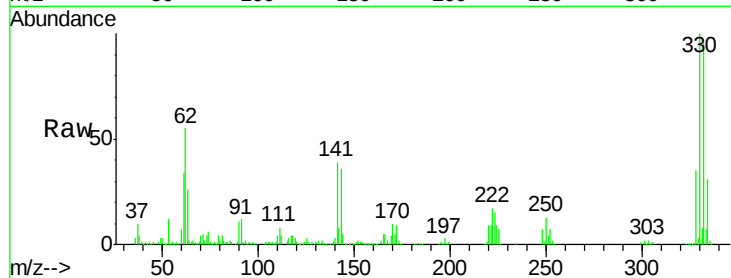




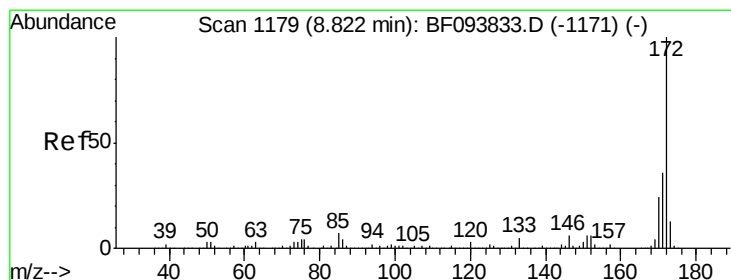
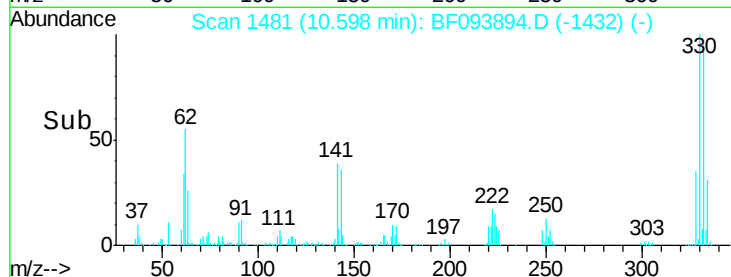
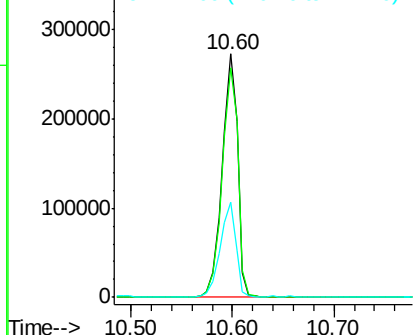
#41  
 2,4,6-Tribromophenol  
 Concen: 126.25 ng  
 RT: 10.60 min Scan# 1481  
 Delta R.T. -0.01 min  
 Lab File: BF093894.D  
 Acq: 23 Mar 2017 22:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-CC10-BASE

Tgt Ion:330 Resp: 288888  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 76.6 115.0  
 141 39.0 31.4 47.2

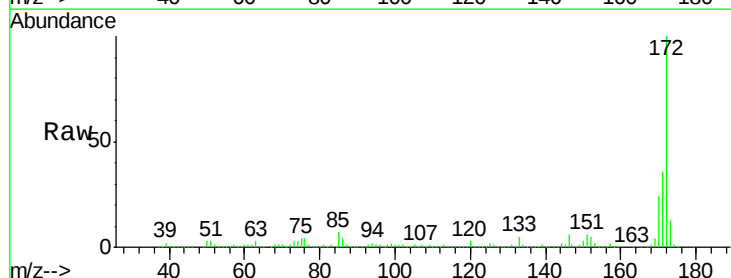


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

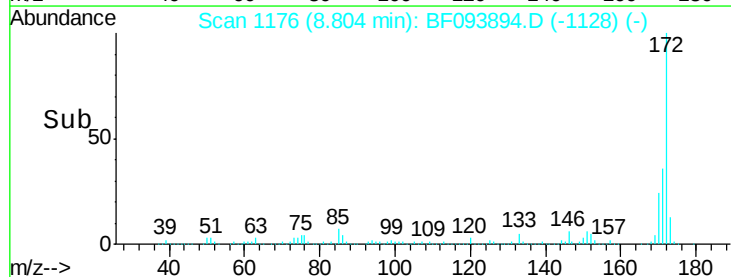
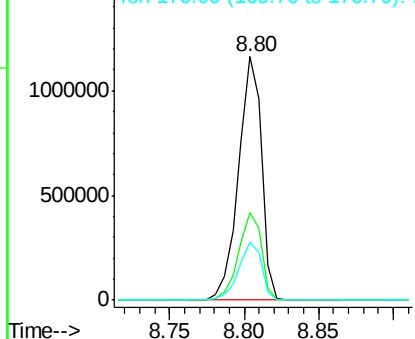


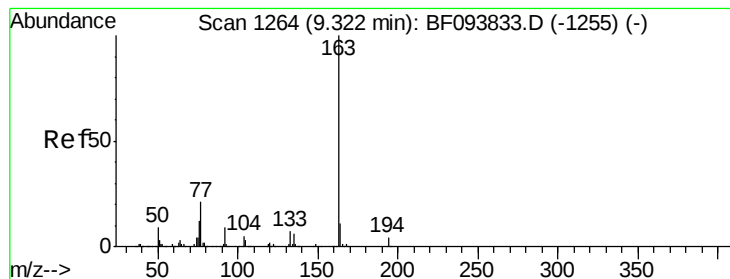
#44  
 2-Fluorobiphenyl  
 Concen: 65.80 ng  
 RT: 8.80 min Scan# 1176  
 Delta R.T. -0.02 min  
 Lab File: BF093894.D  
 Acq: 23 Mar 2017 22:43

Tgt Ion:172 Resp: 1249176  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.6 44.4  
 170 23.8 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





#49

Dimethylphthalate

Concen: 8.01 ng

RT: 9.30 min Scan# 1260

Delta R.T. -0.02 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

Instrument :

BNA\_F

ClientSampleId :

E2-CC10-BASE

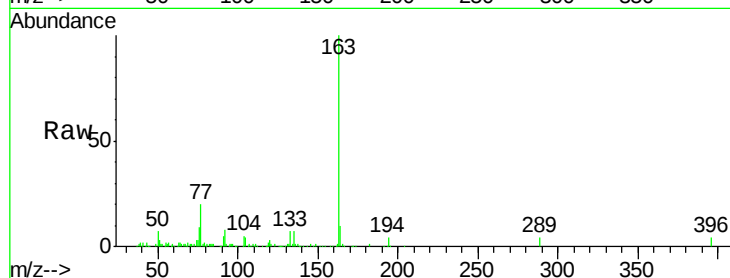
Tgt Ion:163 Resp: 164811

Ion Ratio Lower Upper

163 100

194 3.6 2.6 4.0

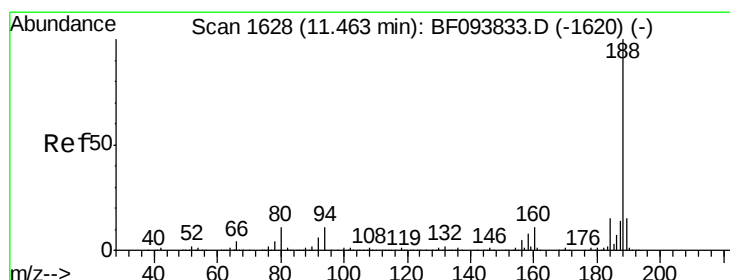
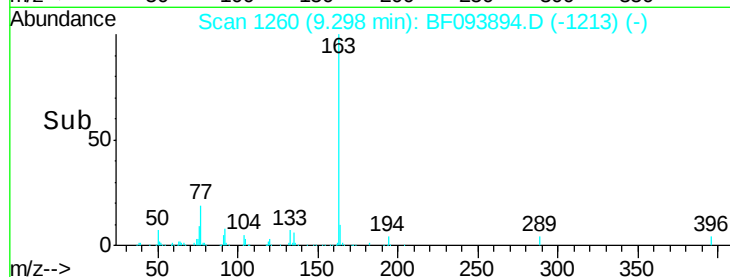
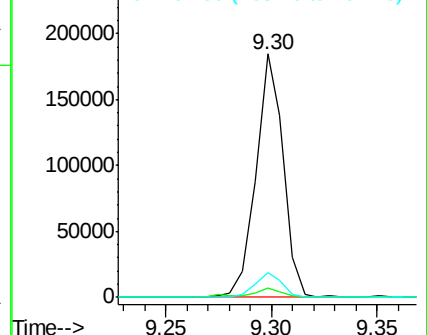
164 10.0 8.4 12.6



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: 11.45 min Scan# 1626

Delta R.T. -0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

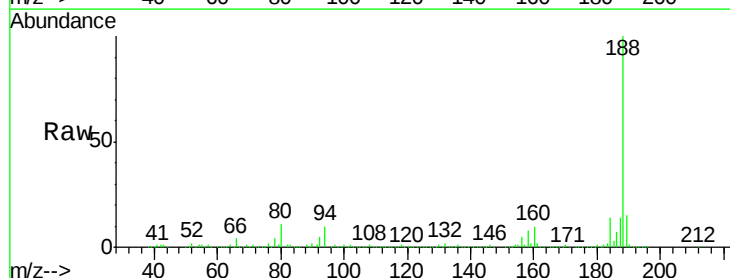
Tgt Ion:188 Resp: 481865

Ion Ratio Lower Upper

188 100

94 10.4 9.4 14.2

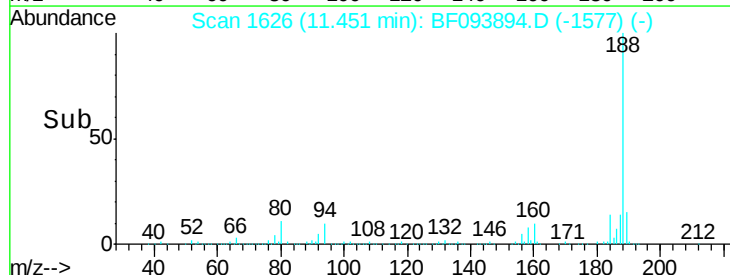
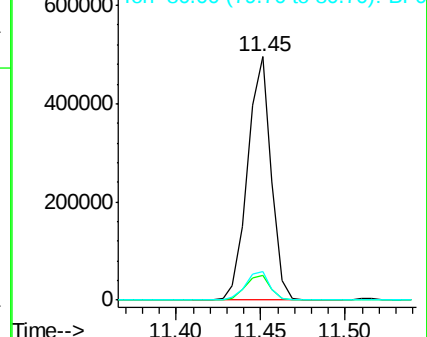
80 11.5 10.2 15.2

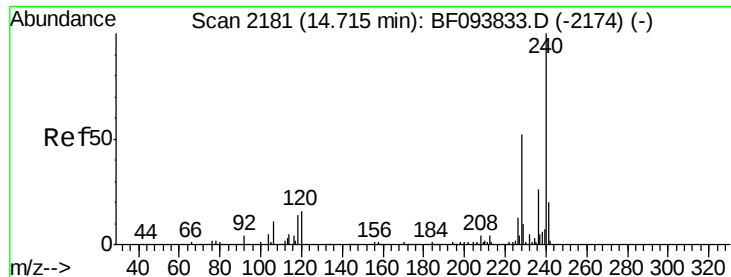


Abundance Ion 188.00 (187.70 to 188.70): E

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: 14.70 min Scan# 2179

Delta R.T. -0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

Instrument :

BNA\_F

ClientSampleId :

E2-CC10-BASE

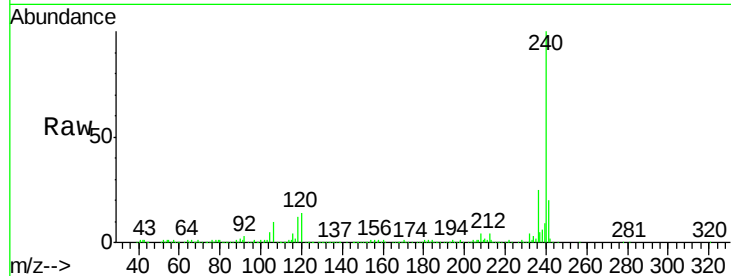
Tgt Ion:240 Resp: 297625

Ion Ratio Lower Upper

240 100

120 13.7 5.8 8.8#

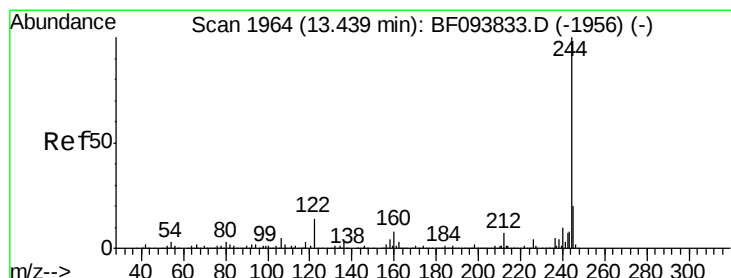
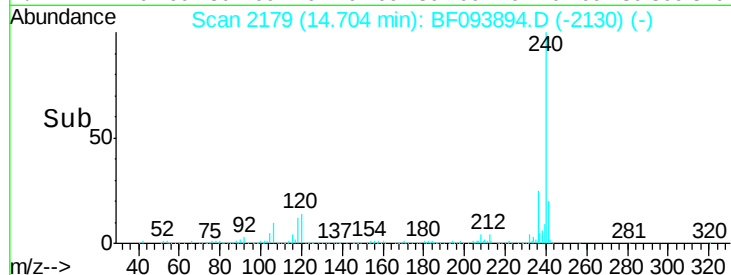
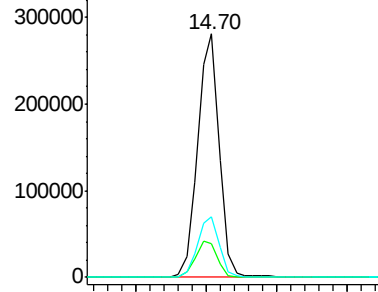
236 24.6 20.5 30.7



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: 58.46 ng

RT: 13.43 min Scan# 1962

Delta R.T. -0.01 min

Lab File: BF093894.D

Acq: 23 Mar 2017 22:43

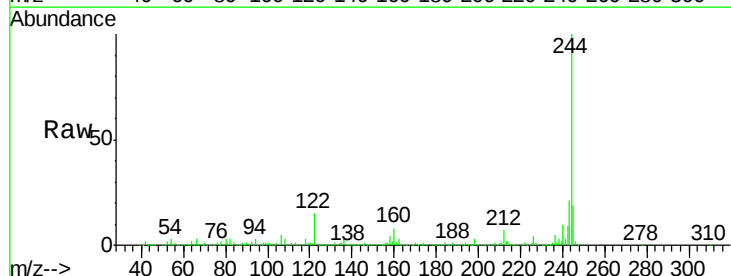
Tgt Ion:244 Resp: 776289

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

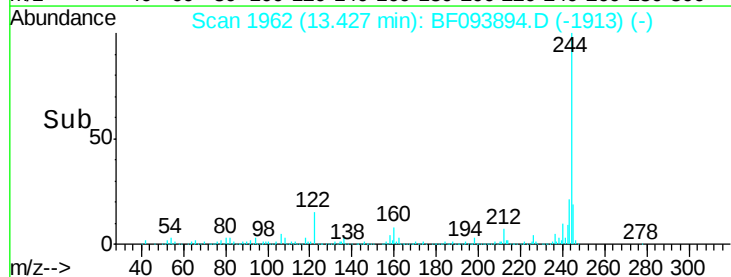
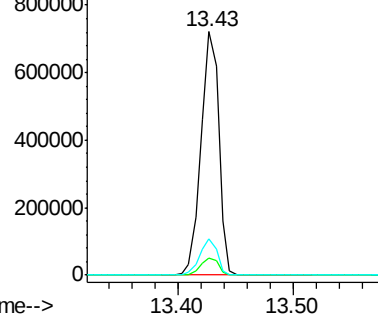
122 15.1 10.3 15.5

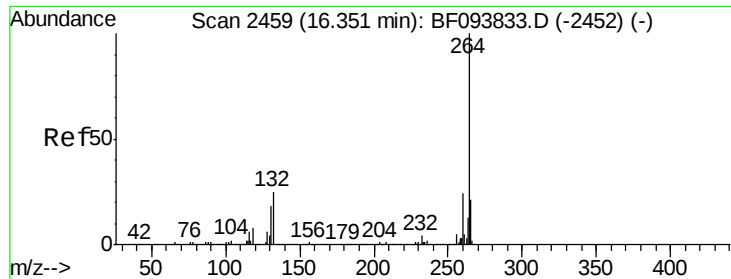


Abundance Ion 244.00 (243.70 to 244.70): E

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: 16.34 min Scan# 2457  
Delta R.T. -0.01 min  
Lab File: BF093894.D  
Acq: 23 Mar 2017 22:43

Instrument :  
BNA\_F  
ClientSampleId :  
E2-CC10-BASE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.5  | 29.3  |
| 265     | 21.2  | 17.2  | 25.8  |

