

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040216\  
 Data File : BF086018.D  
 Acq On : 2 Apr 2016 18:18  
 Operator : UM/SJ  
 Sample : H2028-02  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W2DAY1

Quant Time: Apr 04 01:06:59 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 01 23:17:06 2016  
 Response via : Initial Calibration

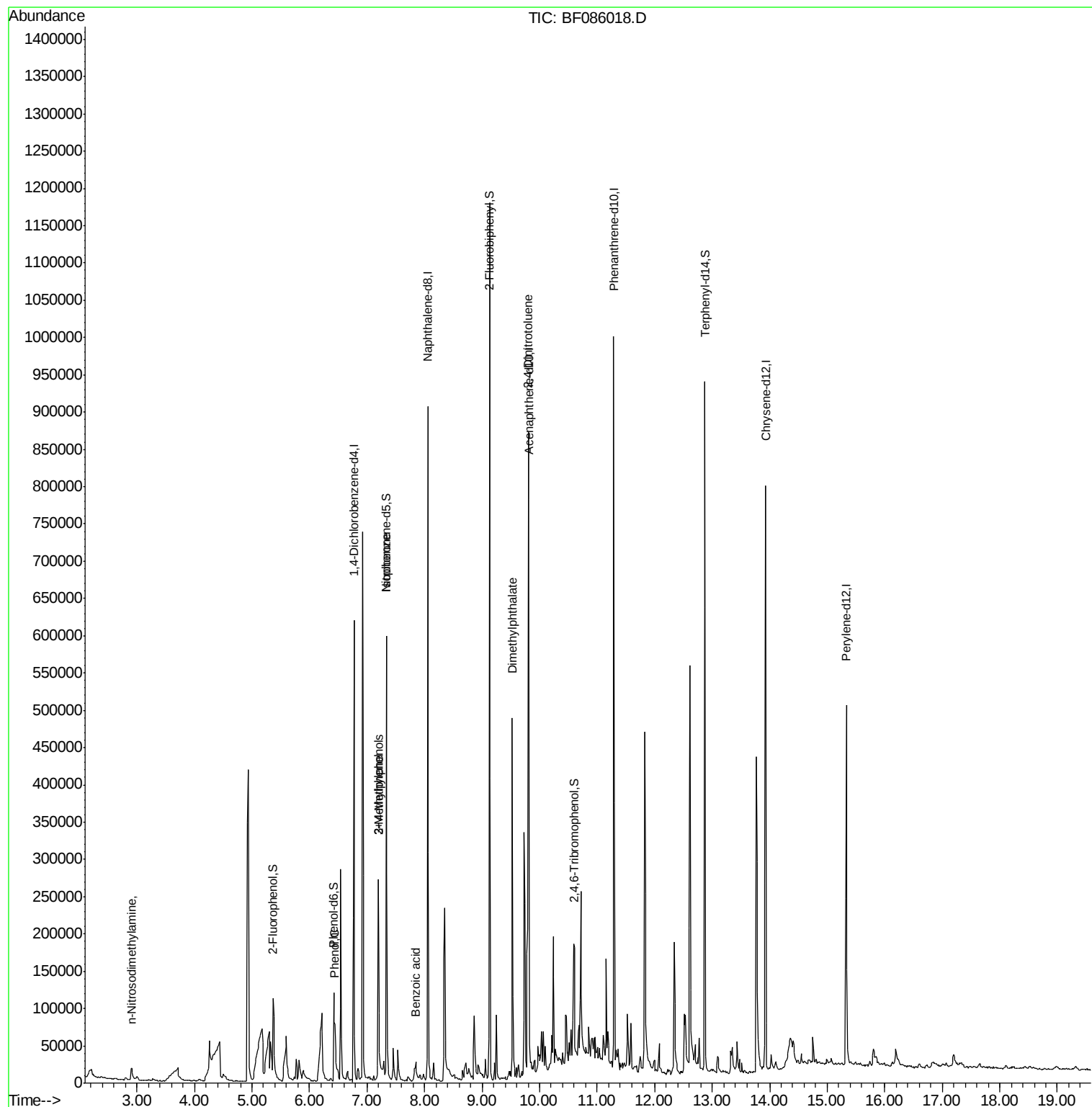
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)      |
|-----------------------------|-------|------|----------|-------|-------|---------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 105058   | 20.00 | ng    | 0.00          |
| 21) Naphthalene-d8          | 8.05  | 136  | 426224   | 20.00 | ng    | -0.01         |
| 38) Acenaphthene-d10        | 9.81  | 164  | 199277   | 20.00 | ng    | 0.00          |
| 63) Phenanthrene-d10        | 11.29 | 188  | 374599   | 20.00 | ng    | -0.01         |
| 75) Chrysene-d12            | 13.93 | 240  | 274470   | 20.00 | ng    | 0.00          |
| 86) Perylene-d12            | 15.33 | 264  | 215076   | 20.00 | ng    | 0.00          |
| System Monitoring Compounds |       |      |          |       |       |               |
| 5) 2-Fluorophenol           | 5.37  | 112  | 53594    | 8.72  | ng    | 0.00          |
| 7) Phenol-d6                | 6.42  | 99   | 51434    | 6.59  | ng    | 0.00          |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 229590   | 31.77 | ng    | -0.01         |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 23779    | 12.71 | ng    | 0.00          |
| 44) 2-Fluorobiphenyl        | 9.13  | 172  | 381719   | 31.85 | ng    | -0.01         |
| 78) Terphenyl-d14           | 12.88 | 244  | 356790   | 30.56 | ng    | 0.00          |
| Target Compounds            |       |      |          |       |       |               |
| 4) n-Nitrosodimethylamine   | 2.91  | 42   | 6693     | 2.33  | ng    | Qvalue<br># 1 |
| 10) Phenol                  | 6.43  | 94   | 18405    | 2.07  | ng    | 94            |
| 17) 2-Methylphenol          | 7.20  | 107  | 83094    | 14.38 | ng    | # 68          |
| 20) 3+4-Methylphenols       | 7.20  | 107  | 84536    | 12.03 | ng    | # 52          |
| 25) Isophorone              | 7.33  | 82   | 228849   | 16.04 | ng    | # 68          |
| 32) Benzoic acid            | 7.85  | 122  | 11522    | 2.31  | ng    | # 48          |
| 49) Dimethylphthalate       | 9.53  | 163  | 177400   | 12.01 | ng    | 99            |
| 56) 2,4-Dinitrotoluene      | 9.80  | 165  | 25310    | 6.41  | ng    | # 62          |

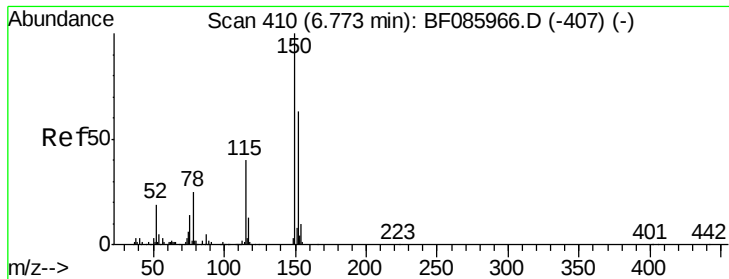
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040216\  
Data File : BF086018.D  
Acq On : 2 Apr 2016 18:18  
Operator : UM/SJ  
Sample : H2028-02  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
W2DAY1

Quant Time: Apr 04 01:06:59 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 01 23:17:06 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

Instrument :

BNA\_F

ClientSampleId :

W2DAY1

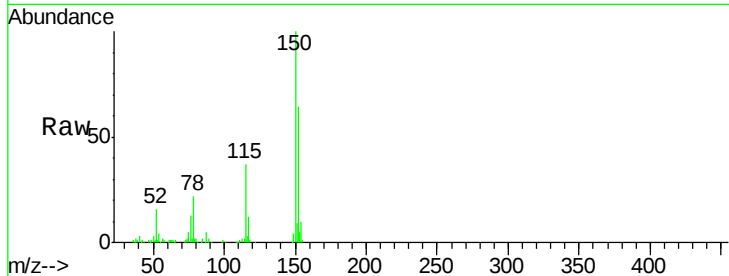
Tgt Ion:152 Resp: 105058

Ion Ratio Lower Upper

152 100

150 155.2 124.2 186.2

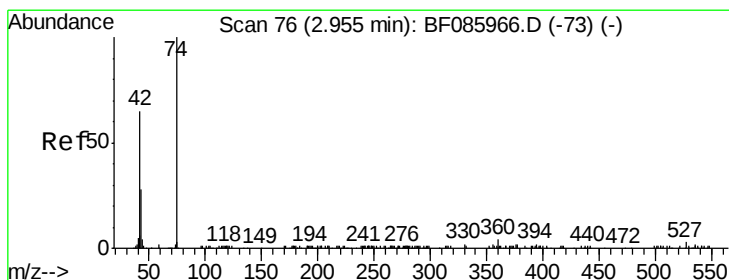
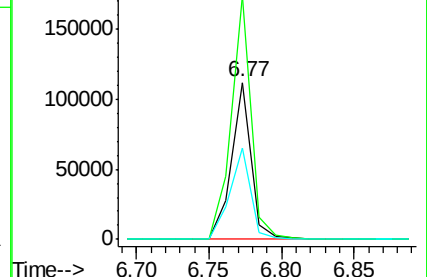
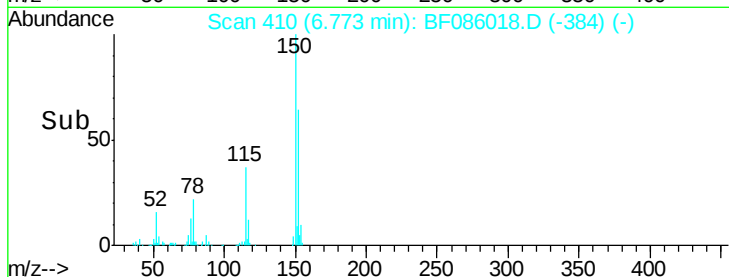
115 58.2 47.0 70.6



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



#4

n-Nitrosodimethylamine

Concen: 2.33 ng

RT: 2.91 min Scan# 72

Delta R.T. -0.05 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

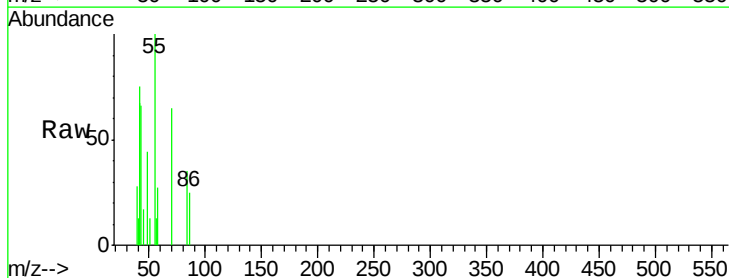
Tgt Ion: 42 Resp: 6693

Ion Ratio Lower Upper

42 100

74 0.0 121.4 182.2#

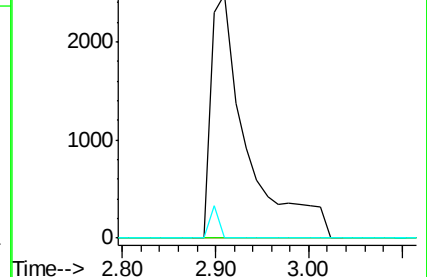
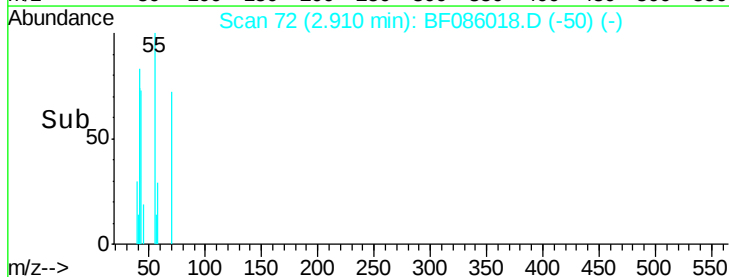
44 0.0 5.6 8.4#

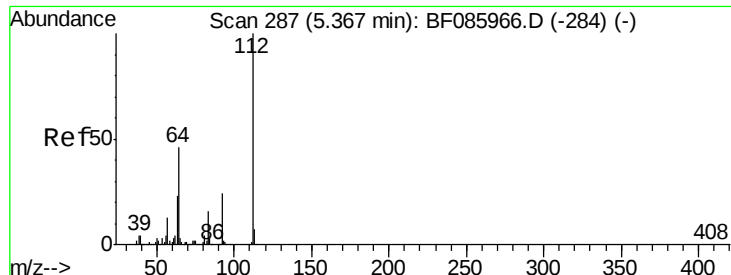


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 8.72 ng

RT: 5.37 min Scan# 287

Delta R.T. 0.00 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

Instrument :

BNA\_F

ClientSampleId :

W2DAY1

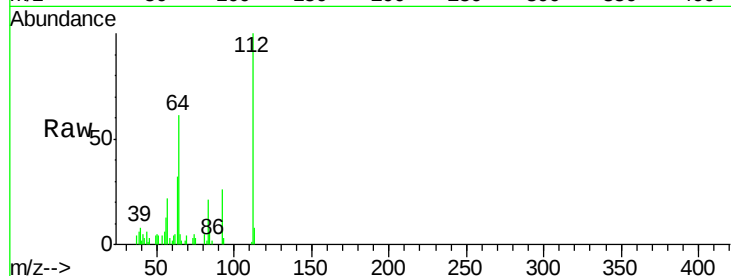
Tgt Ion: 112 Resp: 53594

Ion Ratio Lower Upper

112 100

64 61.1 39.9 59.9#

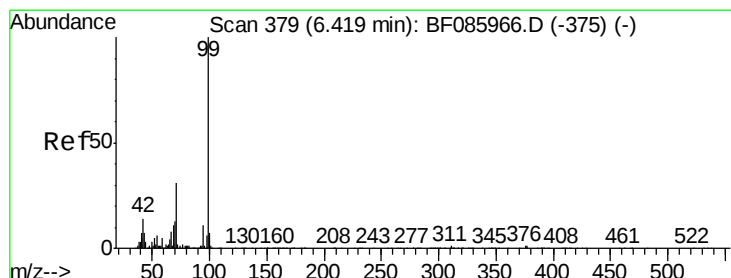
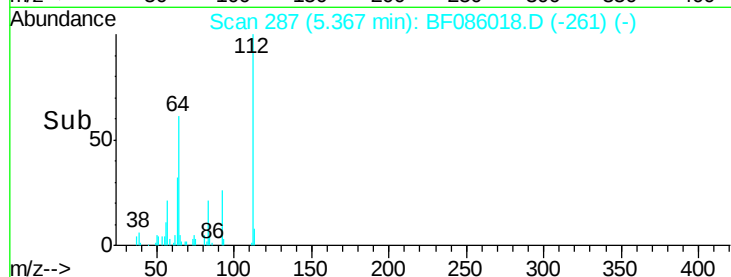
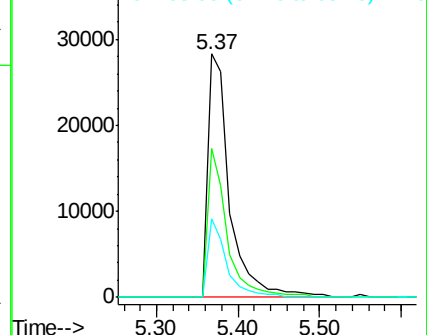
63 32.3 20.2 30.2#



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: 6.59 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

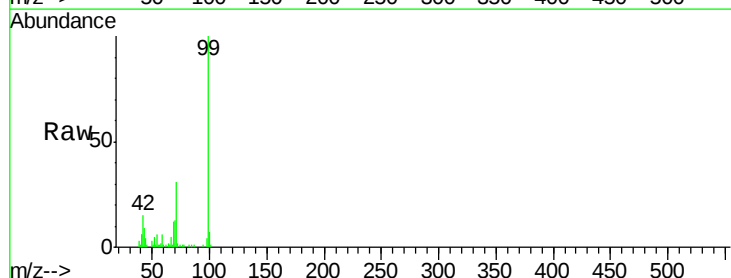
Tgt Ion: 99 Resp: 51434

Ion Ratio Lower Upper

99 100

42 15.4 11.1 16.7

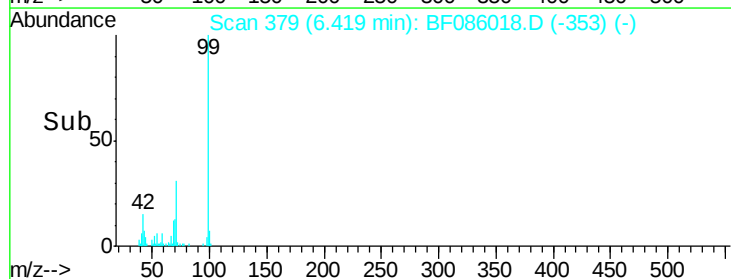
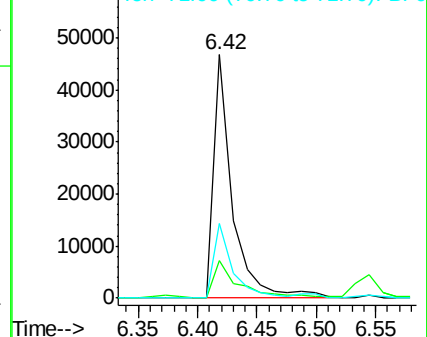
71 30.5 24.9 37.3

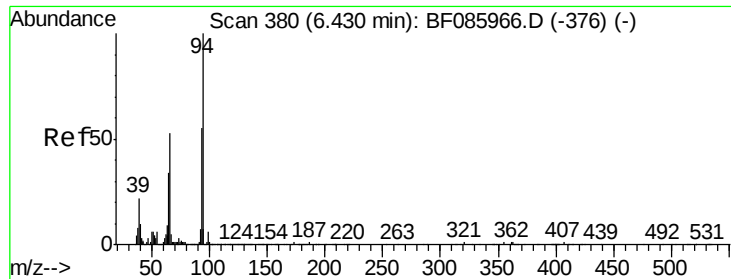


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#10

Phenol

Concen: 2.07 ng

RT: 6.43 min Scan# 380

Delta R.T. 0.00 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

Instrument :

BNA\_F

ClientSampleId :

W2DAY1

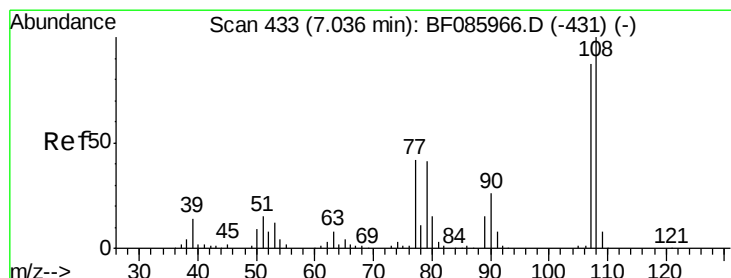
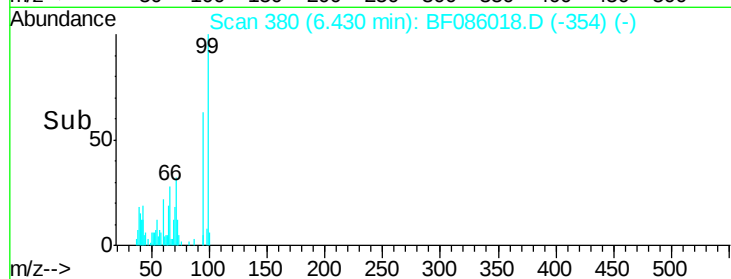
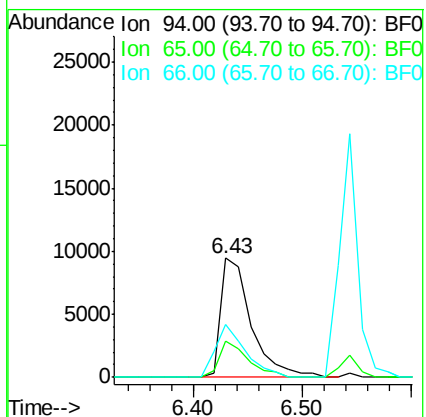
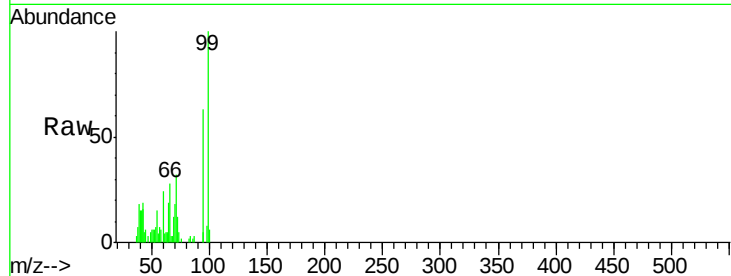
Tgt Ion: 94 Resp: 18405

Ion Ratio Lower Upper

94 100

65 30.3 8.6 48.6

66 44.4 20.0 60.0



#17

2-Methylphenol

Concen: 14.38 ng

RT: 7.20 min Scan# 447

Delta R.T. 0.16 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

Tgt Ion: 107 Resp: 83094

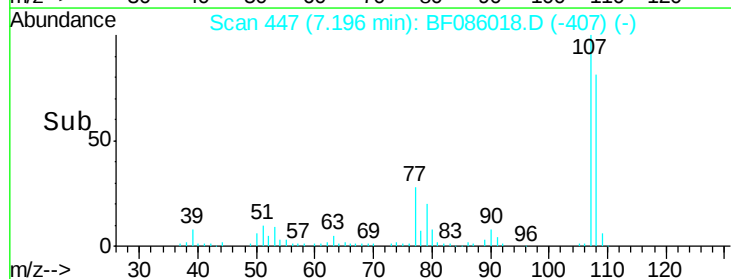
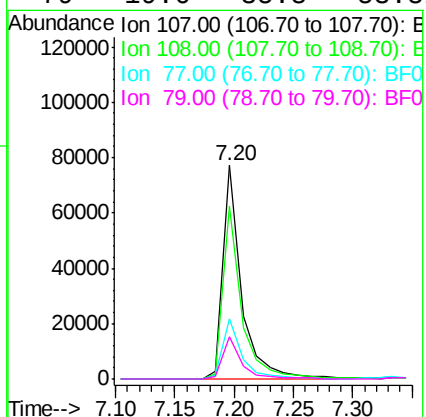
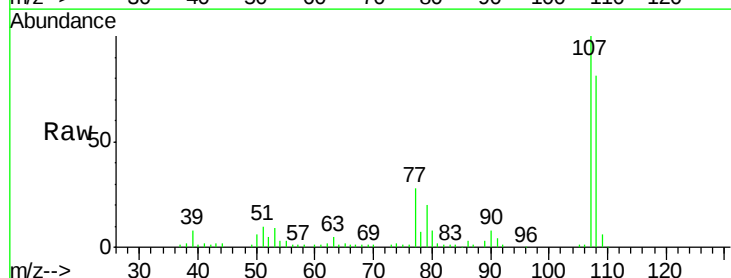
Ion Ratio Lower Upper

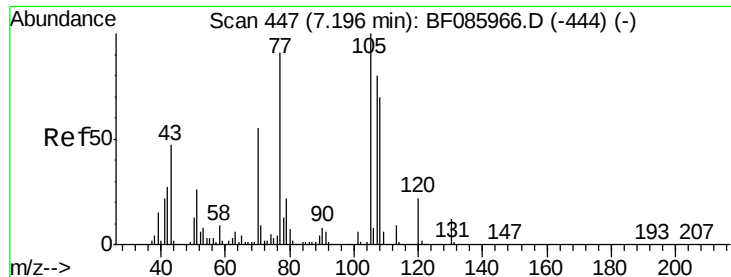
107 100

108 80.8 91.4 137.0#

77 28.0 36.2 54.2#

79 19.6 35.8 53.8#

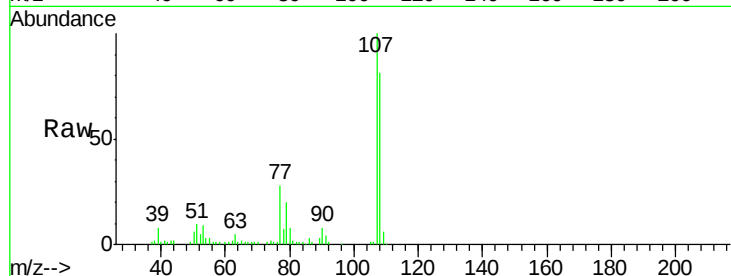




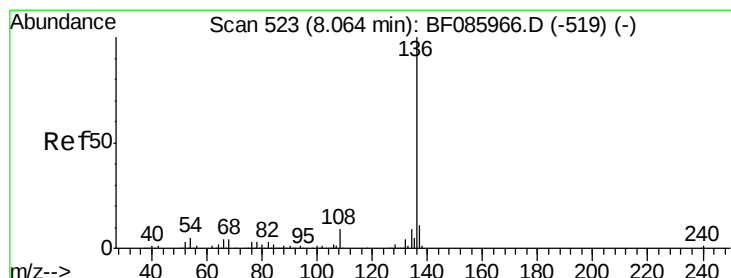
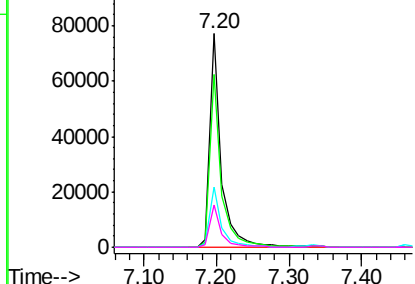
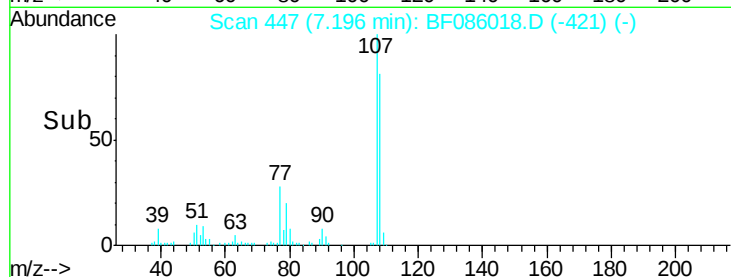
#20  
 3+4-Methylphenols  
 Concen: 12.03 ng  
 RT: 7.20 min Scan# 447  
 Delta R.T. 0.00 min  
 Lab File: BF086018.D  
 Acq: 2 Apr 2016 18:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W2DAY1

Tgt Ion:107 Resp: 84536  
 Ion Ratio Lower Upper  
 107 100  
 108 80.8 69.3 109.3  
 77 28.0 101.7 141.7#  
 79 19.6 8.3 48.3

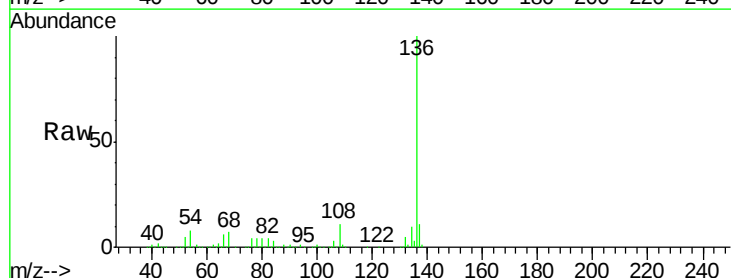


Abundance Ion 107.00 (106.70 to 107.70): E  
 120000 Ion 108.00 (107.70 to 108.70): E  
 100000 Ion 77.00 (76.70 to 77.70): BF0  
 80000 Ion 79.00 (78.70 to 79.70): BF0

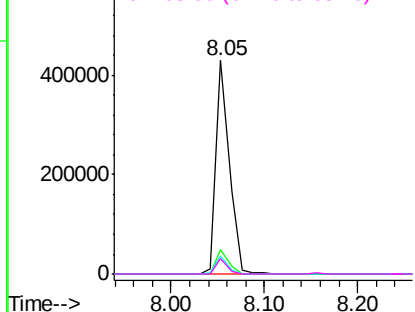
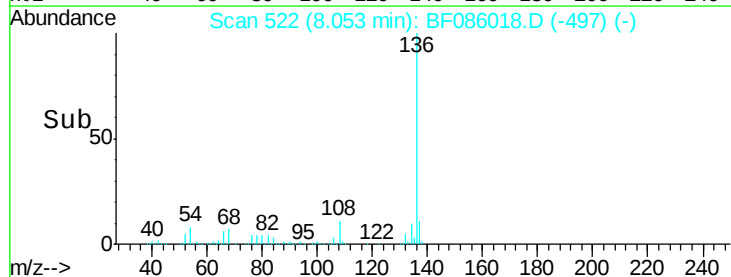


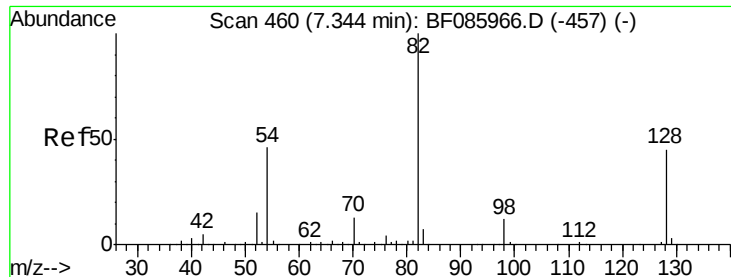
#21  
 Naphthalene-d8  
 Concen: 20.00 ng  
 RT: 8.05 min Scan# 522  
 Delta R.T. -0.01 min  
 Lab File: BF086018.D  
 Acq: 2 Apr 2016 18:18

Tgt Ion:136 Resp: 426224  
 Ion Ratio Lower Upper  
 136 100  
 137 11.4 9.1 13.7  
 54 8.4 7.4 11.0  
 68 6.9 5.8 8.8



Abundance Ion 136.00 (135.70 to 136.70): E  
 600000 Ion 137.00 (136.70 to 137.70): E  
 400000 Ion 54.00 (53.70 to 54.70): BF0  
 200000 Ion 68.00 (67.70 to 68.70): BF0

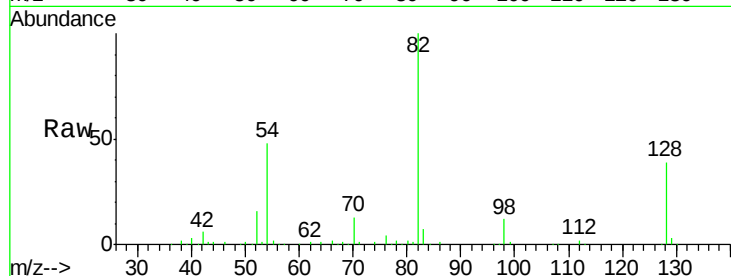




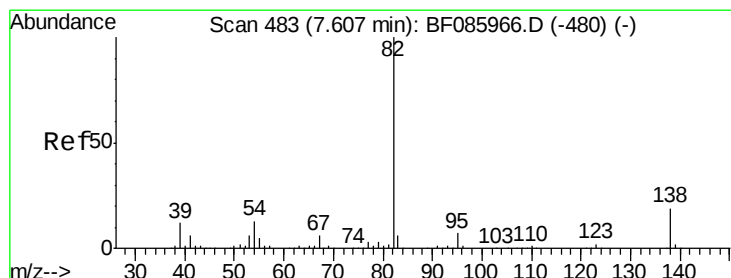
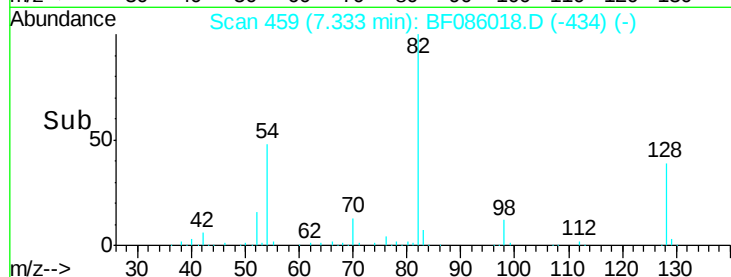
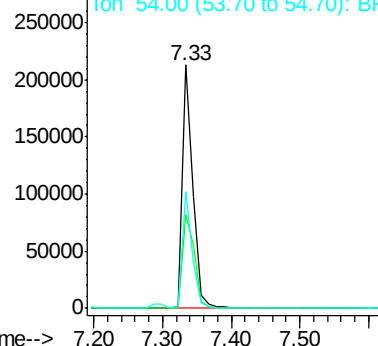
#23  
 Nitrobenzene-d5  
 Concen: 31.77 ng  
 RT: 7.33 min Scan# 459  
 Delta R.T. -0.01 min  
 Lab File: BF086018.D  
 Acq: 2 Apr 2016 18:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W2DAY1

Tgt Ion: 82 Resp: 229590  
 Ion Ratio Lower Upper  
 82 100  
 128 38.7 41.8 62.8#  
 54 48.3 33.4 50.0

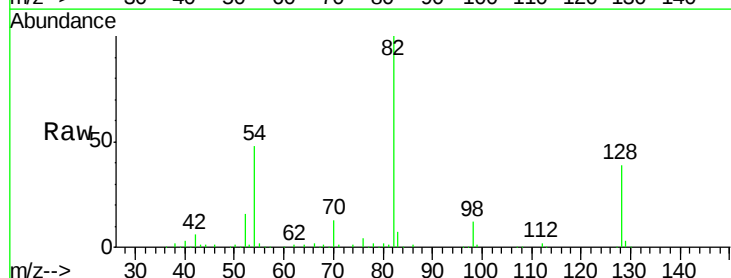


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

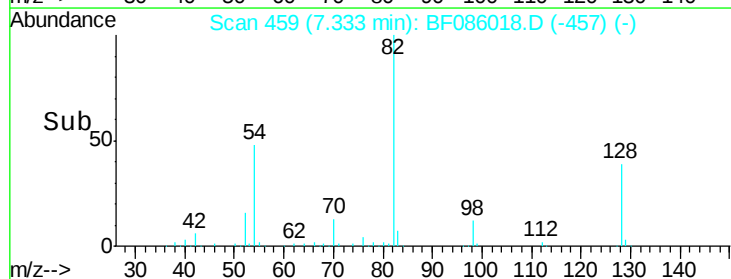
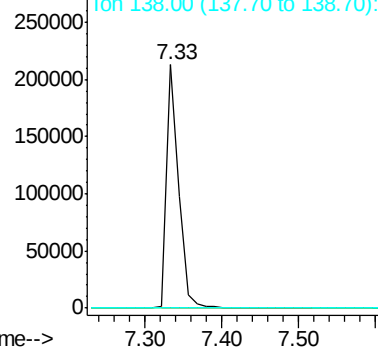


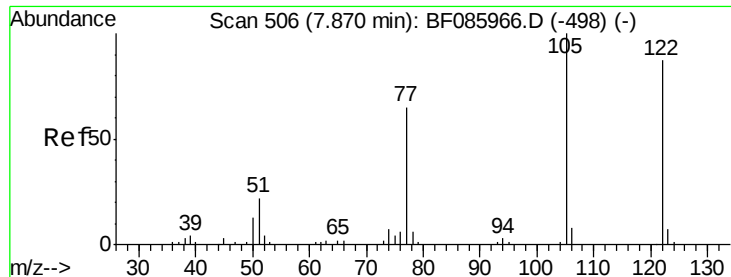
#25  
 Isophorone  
 Concen: 16.04 ng  
 RT: 7.33 min Scan# 459  
 Delta R.T. -0.27 min  
 Lab File: BF086018.D  
 Acq: 2 Apr 2016 18:18

Tgt Ion: 82 Resp: 228849  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.4 8.2#  
 138 0.0 12.9 19.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 95.00 (94.70 to 95.70): BF0  
 Ion 138.00 (137.70 to 138.70): BF0





#32

Benzoic acid

Concen: 2.31 ng

RT: 7.85 min Scan# 504

Delta R.T. -0.02 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

Instrument :

BNA\_F

ClientSampleId :

W2DAY1

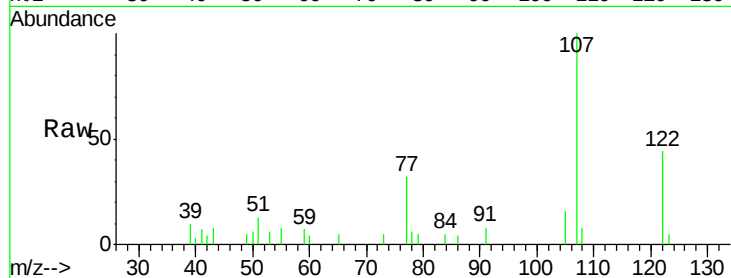
Tgt Ion:122 Resp: 11522

Ion Ratio Lower Upper

122 100

105 37.4 102.9 142.9#

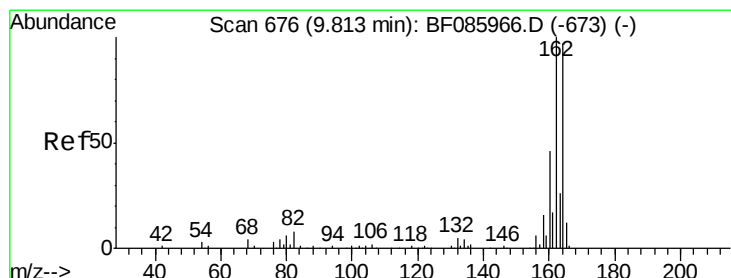
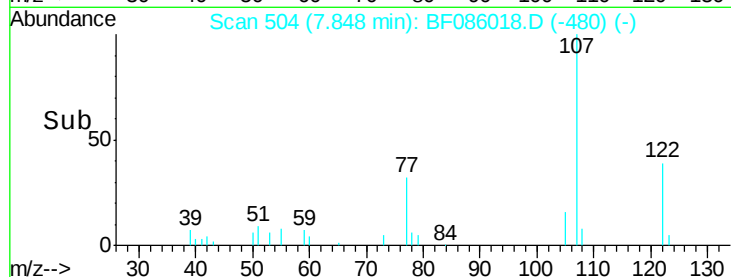
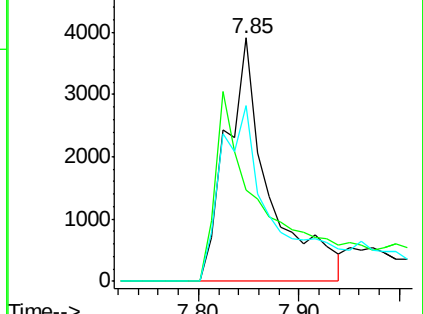
77 72.1 71.8 111.8



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 676

Delta R.T. 0.00 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

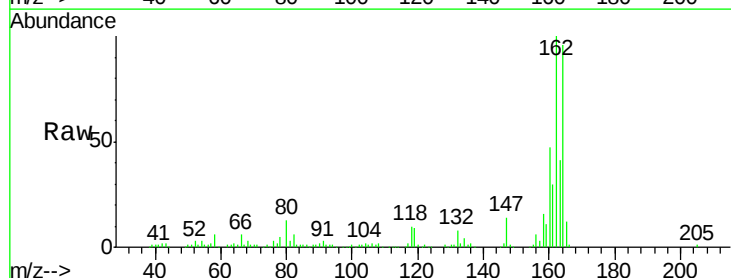
Tgt Ion:164 Resp: 199277

Ion Ratio Lower Upper

164 100

162 104.1 82.1 123.1

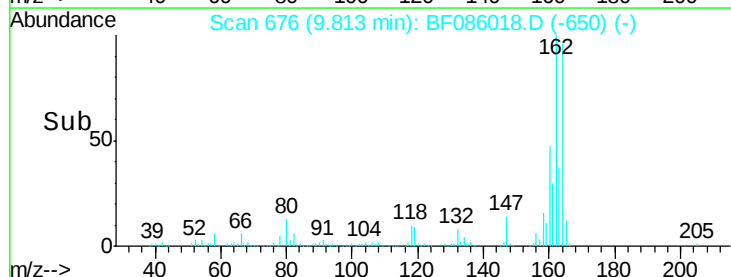
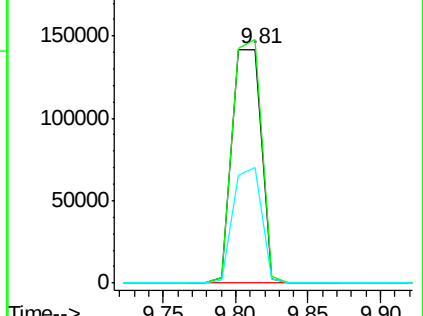
160 49.1 37.4 56.2

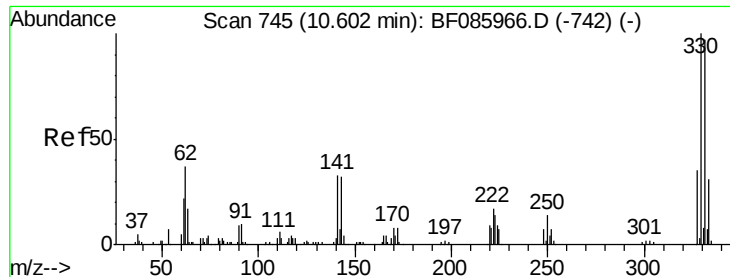


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

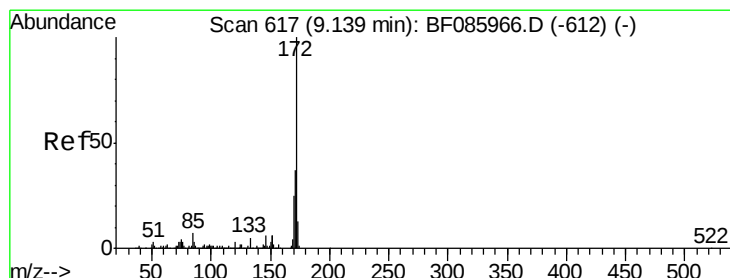
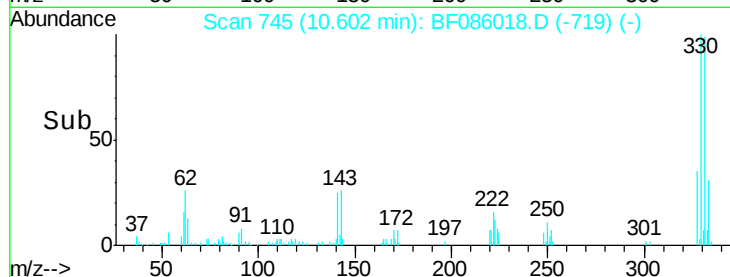
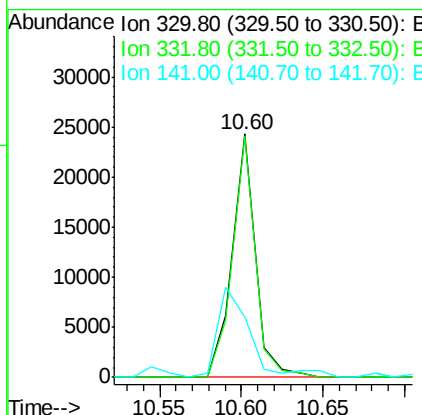
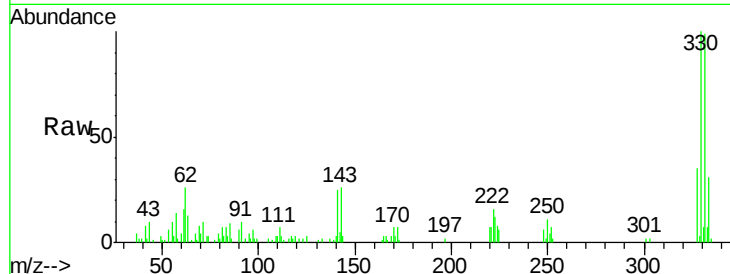




#41  
 2,4,6-Tribromophenol  
 Concen: 12.71 ng  
 RT: 10.60 min Scan# 745  
 Delta R.T. 0.00 min  
 Lab File: BF086018.D  
 Acq: 2 Apr 2016 18:18

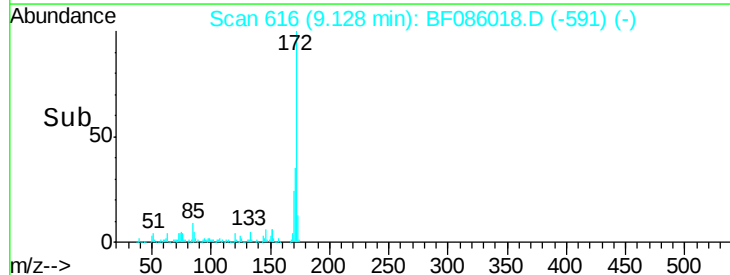
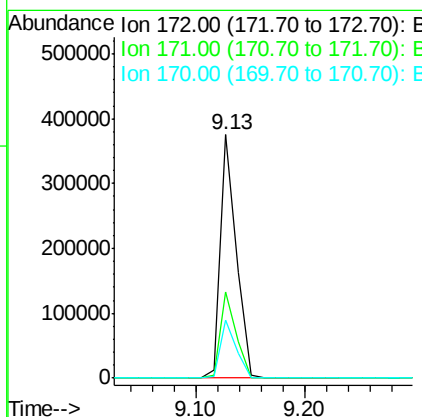
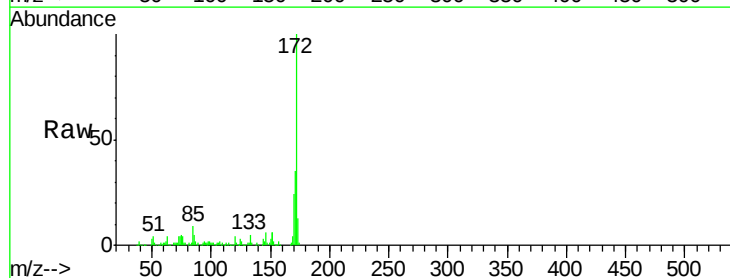
Instrument :  
 BNA\_F  
 ClientSampleId :  
 W2DAY1

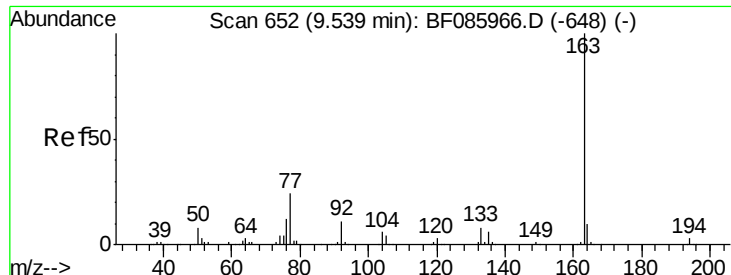
Tgt Ion:330 Resp: 23779  
 Ion Ratio Lower Upper  
 330 100  
 332 97.0 78.2 117.2  
 141 51.9 31.5 47.3#



#44  
 2-Fluorobiphenyl  
 Concen: 31.85 ng  
 RT: 9.13 min Scan# 616  
 Delta R.T. -0.01 min  
 Lab File: BF086018.D  
 Acq: 2 Apr 2016 18:18

Tgt Ion:172 Resp: 381719  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 29.4 44.2  
 170 23.8 19.8 29.6

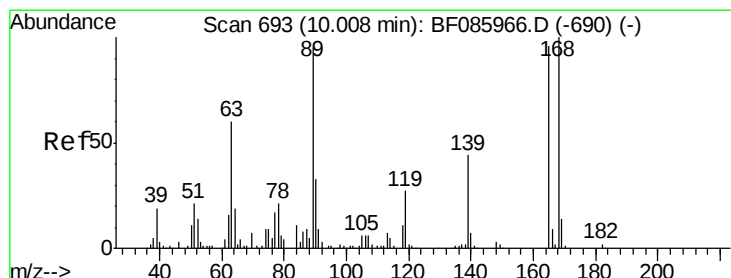
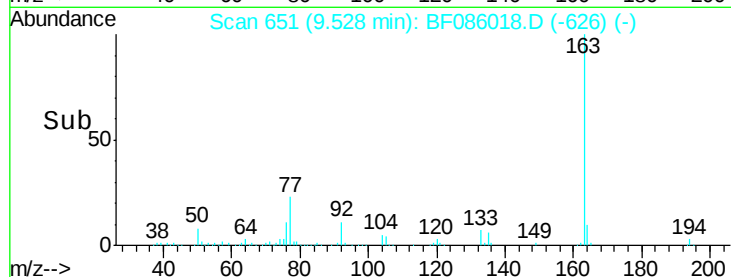
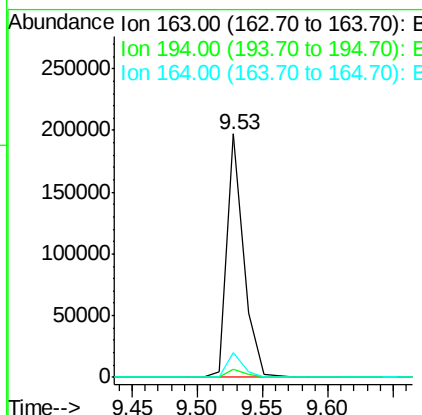
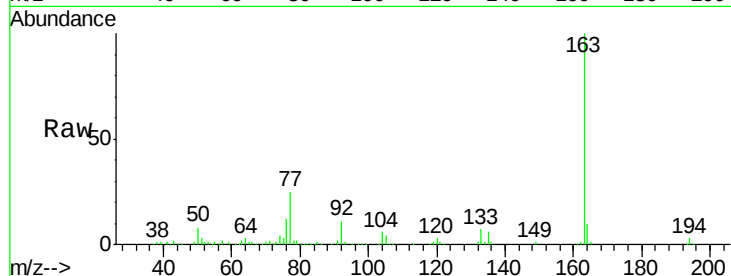




#49  
Dimethylphthalate  
Concen: 12.01 ng  
RT: 9.53 min Scan# 651  
Delta R.T. -0.01 min  
Lab File: BF086018.D  
Acq: 2 Apr 2016 18:18

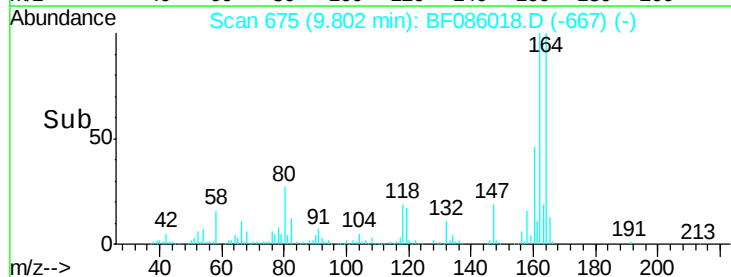
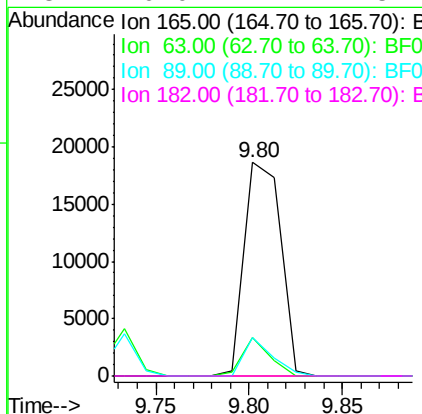
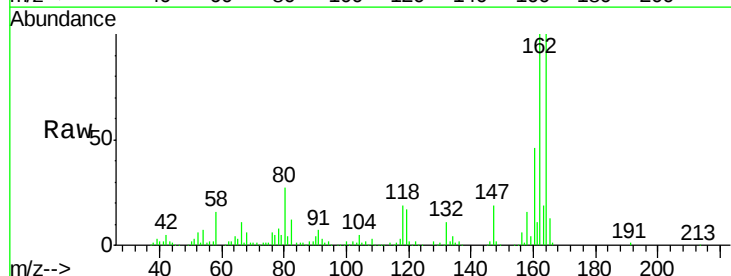
Instrument :  
BNA\_F  
ClientSampleId :  
W2DAY1

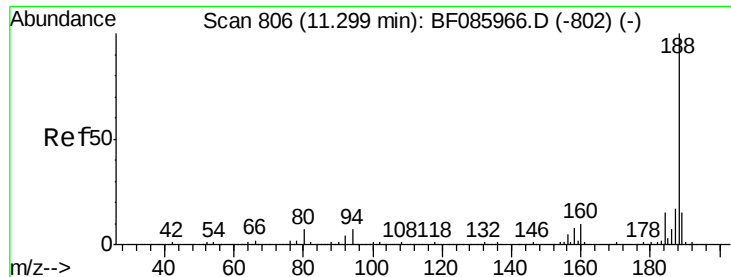
Tgt Ion:163 Resp: 177400  
Ion Ratio Lower Upper  
163 100  
194 3.1 2.9 4.3  
164 10.2 8.3 12.5



#56  
2,4-Dinitrotoluene  
Concen: 6.41 ng  
RT: 9.80 min Scan# 675  
Delta R.T. -0.21 min  
Lab File: BF086018.D  
Acq: 2 Apr 2016 18:18

Tgt Ion:165 Resp: 25310  
Ion Ratio Lower Upper  
165 100  
63 18.2 24.9 37.3#  
89 17.8 41.0 61.6#  
182 0.0 2.1 3.1#

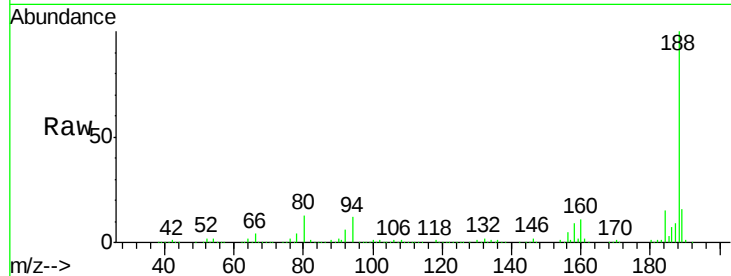




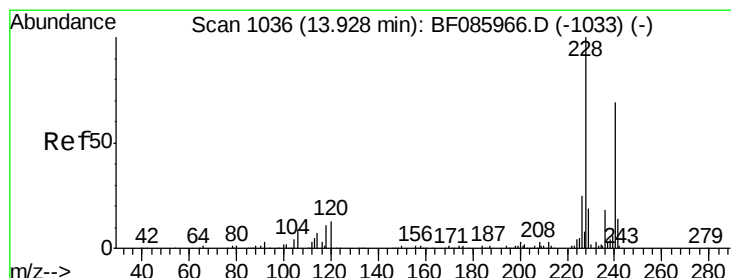
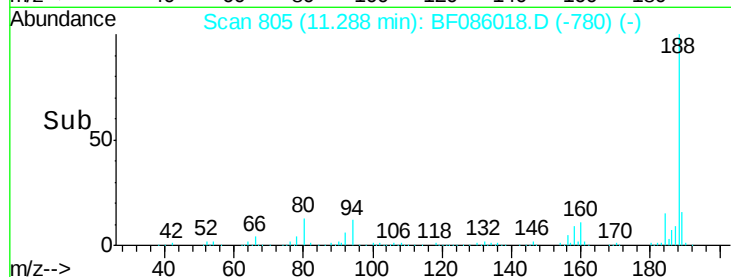
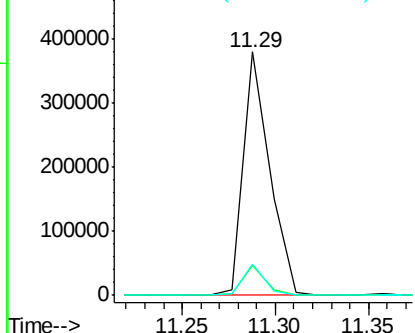
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.29 min Scan# 805  
Delta R.T. -0.01 min  
Lab File: BF086018.D  
Acq: 2 Apr 2016 18:18

Instrument :  
BNA\_F  
ClientSampleId :  
W2DAY1

Tgt Ion:188 Resp: 374599  
Ion Ratio Lower Upper  
188 100  
94 12.0 5.4 8.0#  
80 13.0 5.5 8.3#

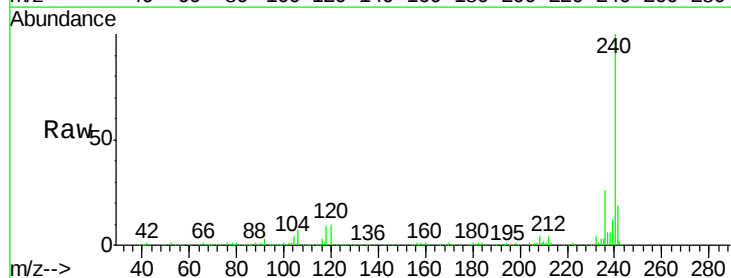


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

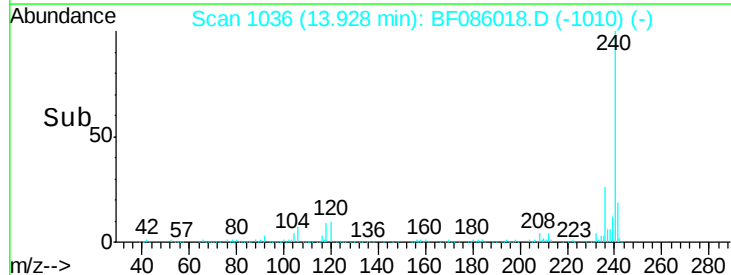
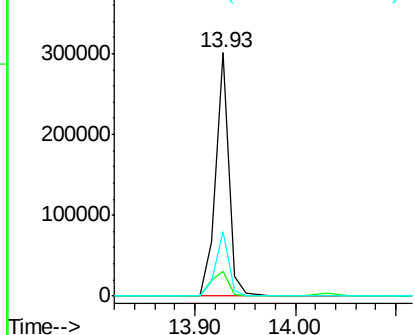


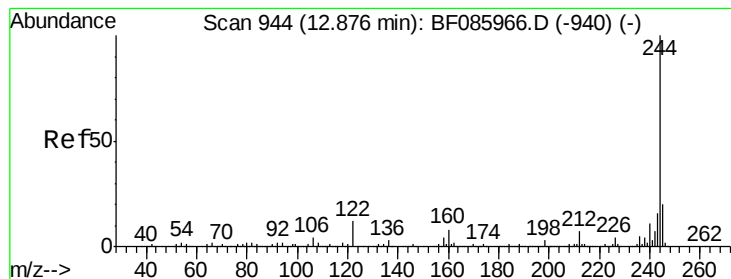
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.93 min Scan# 1036  
Delta R.T. 0.00 min  
Lab File: BF086018.D  
Acq: 2 Apr 2016 18:18

Tgt Ion:240 Resp: 274470  
Ion Ratio Lower Upper  
240 100  
120 10.3 13.8 20.8#  
236 26.2 20.6 30.8



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: 30.56 ng

RT: 12.88 min Scan# 944

Delta R.T. 0.00 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

Instrument :

BNA\_F

ClientSampleId :

W2DAY1

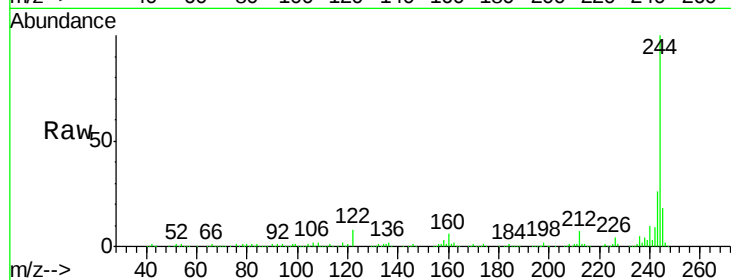
Tgt Ion:244 Resp: 356790

Ion Ratio Lower Upper

244 100

212 6.7 6.1 9.1

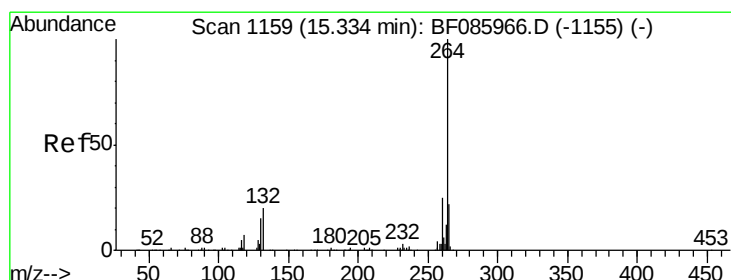
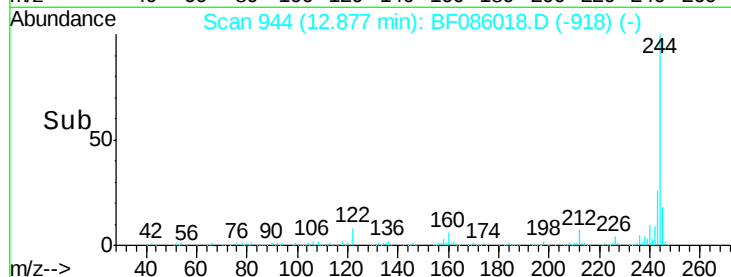
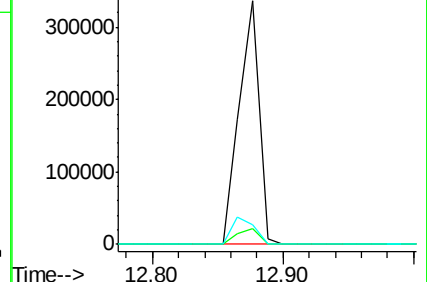
122 7.9 10.2 15.4#



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: 15.33 min Scan# 1159

Delta R.T. 0.00 min

Lab File: BF086018.D

Acq: 2 Apr 2016 18:18

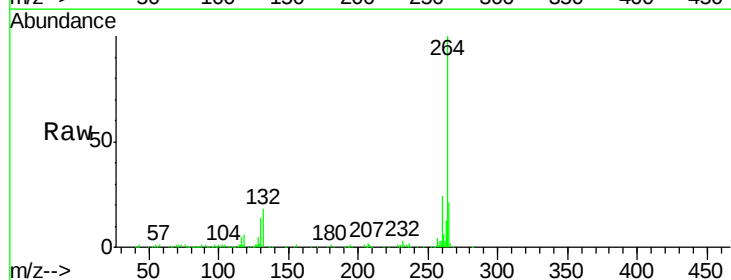
Tgt Ion:264 Resp: 215076

Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.2

265 21.4 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

