

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF043016\  
 Data File : BF086553.D  
 Acq On : 1 May 2016 6:11  
 Operator : UM/SJ  
 Sample : H2737-07  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HW-23-4-26-16

Quant Time: May 02 00:47:59 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 27 14:20:52 2016  
 Response via : Initial Calibration

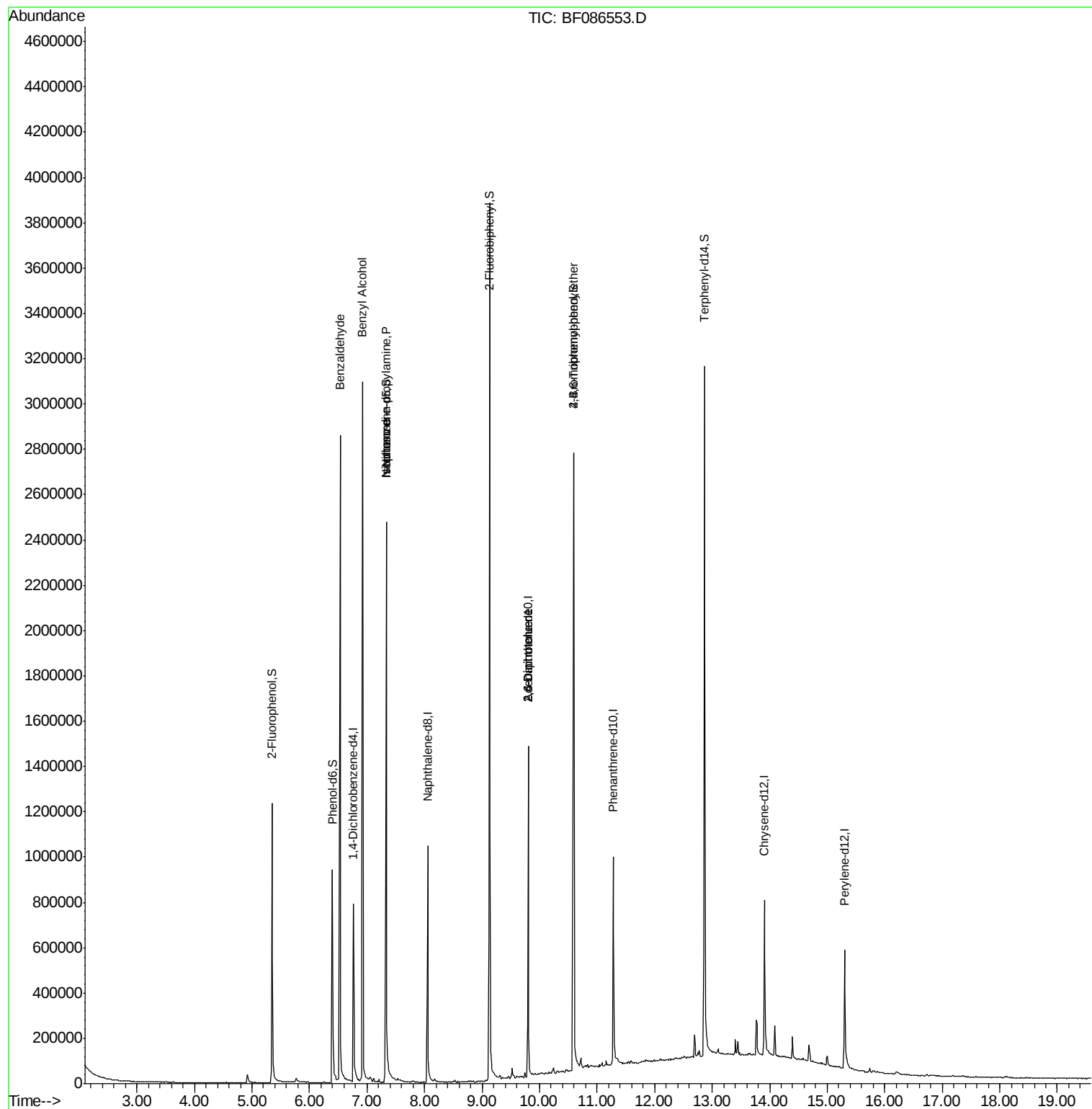
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.76  | 152  | 126528   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 8.05  | 136  | 557032   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.80  | 164  | 274986   | 20.00  | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.28 | 188  | 483682   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12               | 13.91 | 240  | 340257   | 20.00  | ng    | -0.06    |
| 86) Perylene-d12               | 15.30 | 264  | 290388   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 373479   | 50.91  | ng    | -0.04    |
| 7) Phenol-d6                   | 6.40  | 99   | 345576   | 33.75  | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.33  | 82   | 903942   | 87.47  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.59 | 330  | 351931   | 121.36 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 9.13  | 172  | 1345652  | 85.82  | ng    | -0.05    |
| 78) Terphenyl-d14              | 12.86 | 244  | 1302968  | 84.37  | ng    | -0.05    |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.53  | 77   | 20574    | 3.45   | ng    | # 82     |
| 15) Benzyl Alcohol             | 6.92  | 79   | 14774    | 2.28   | ng    | # 38     |
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70   | 121844   | 18.00  | ng    | # 78     |
| 25) Isophorone                 | 7.33  | 82   | 659830   | 33.18  | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 9.80  | 165  | 35017    | 8.19   | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 9.80  | 165  | 35513    | 6.51   | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 10.59 | 248  | 22025    | 4.42   | ng    | # 1      |

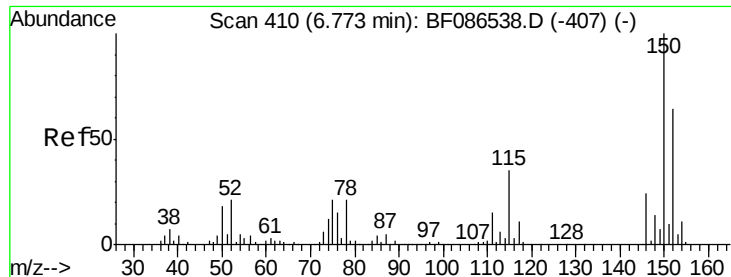
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.76 min Scan# 409

Delta R.T. -0.05 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

Instrument :

BNA\_F

ClientSampleId :

HW-23-4-26-16

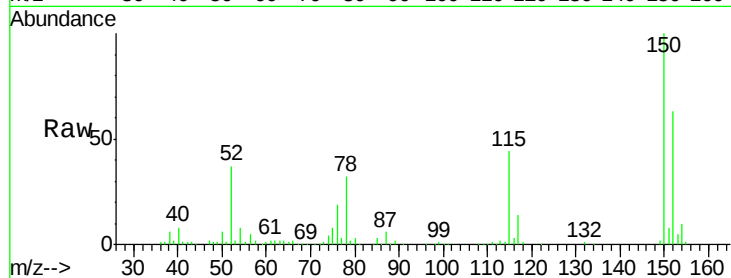
Tgt Ion:152 Resp: 126528

Ion Ratio Lower Upper

152 100

150 159.9 125.8 188.6

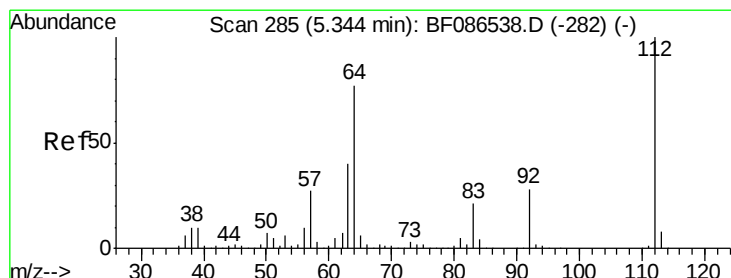
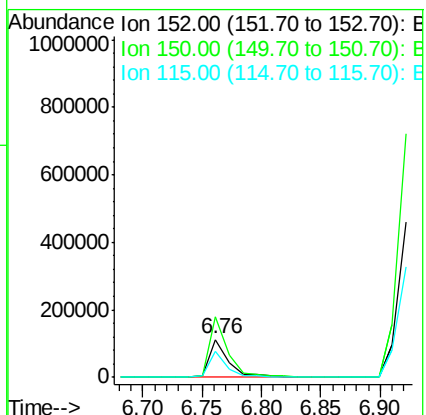
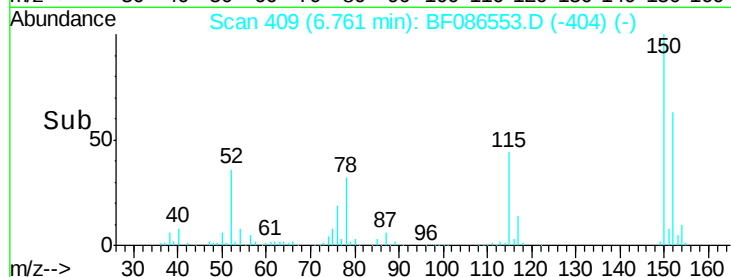
115 69.8 51.5 77.3



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: 50.91 ng

RT: 5.34 min Scan# 285

Delta R.T. -0.04 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

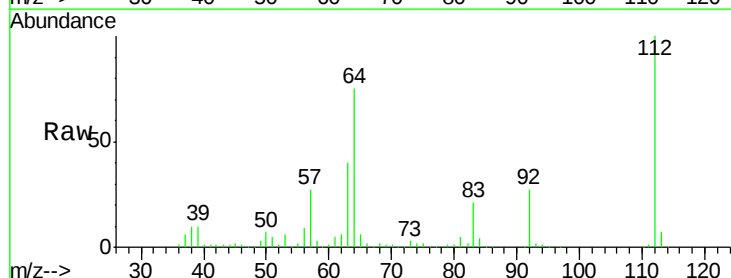
Tgt Ion:112 Resp: 373479

Ion Ratio Lower Upper

112 100

64 75.1 52.1 78.1

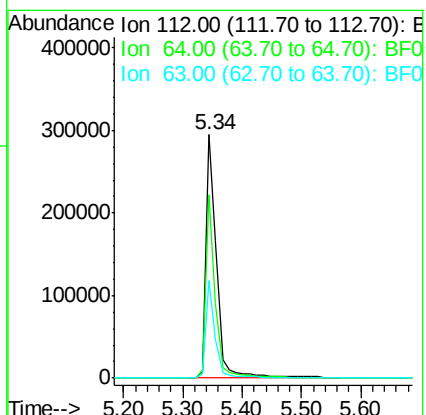
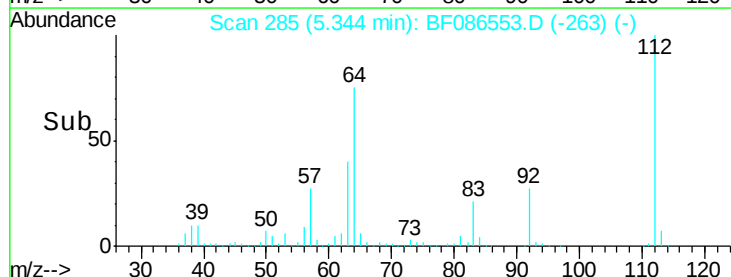
63 40.0 25.7 38.5#

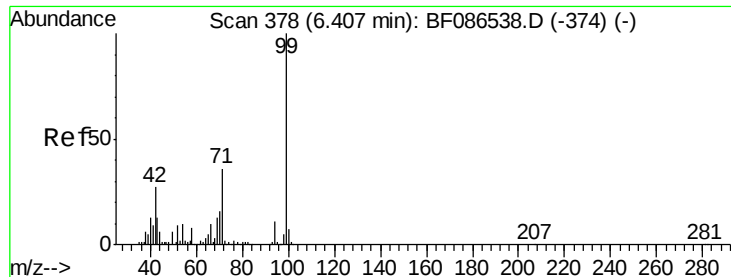


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 33.75 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.05 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

Instrument :

BNA\_F

ClientSampleId :

HW-23-4-26-16

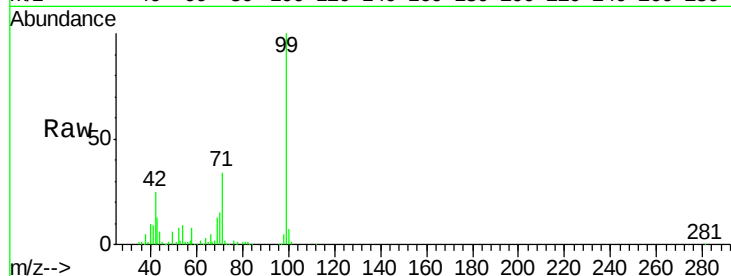
Tgt Ion: 99 Resp: 345576

Ion Ratio Lower Upper

99 100

42 25.4 13.6 20.4#

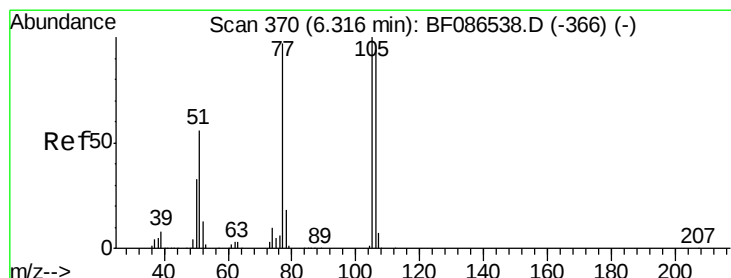
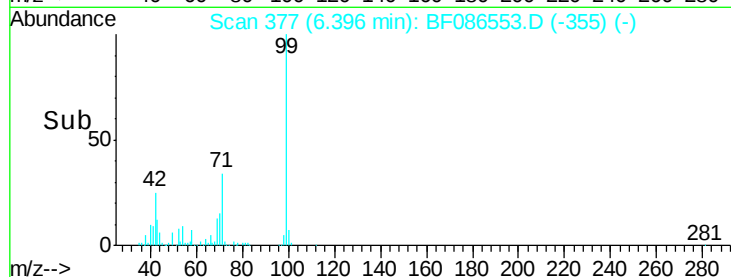
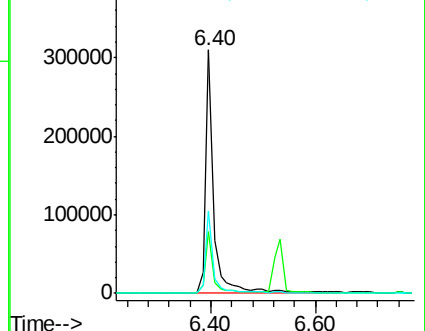
71 34.0 24.6 36.8



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



#9

Benzaldehyde

Concen: 3.45 ng

RT: 6.53 min Scan# 389

Delta R.T. 0.18 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

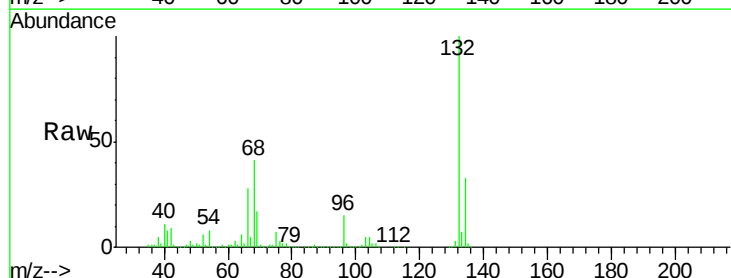
Tgt Ion: 77 Resp: 20574

Ion Ratio Lower Upper

77 100

105 79.7 72.7 112.7

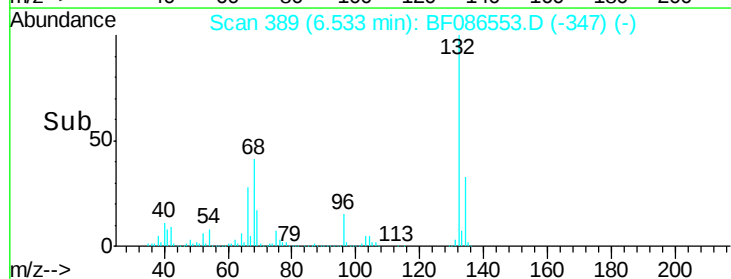
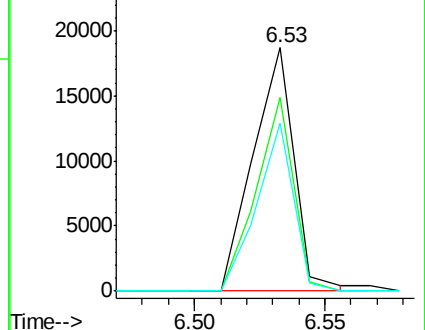
106 69.1 70.8 110.8#

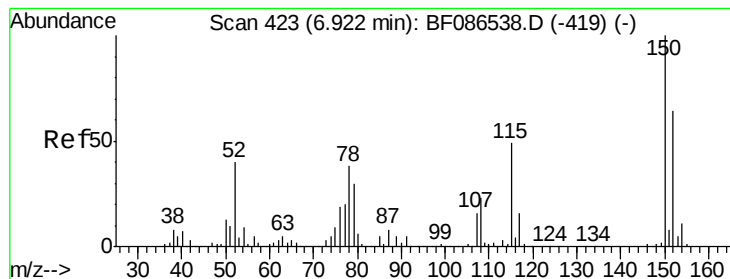


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#15

Benzyl Alcohol

Concen: 2.28 ng

RT: 6.92 min Scan# 423

Delta R.T. -0.03 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

Instrument :

BNA\_F

ClientSampleId :

HW-23-4-26-16

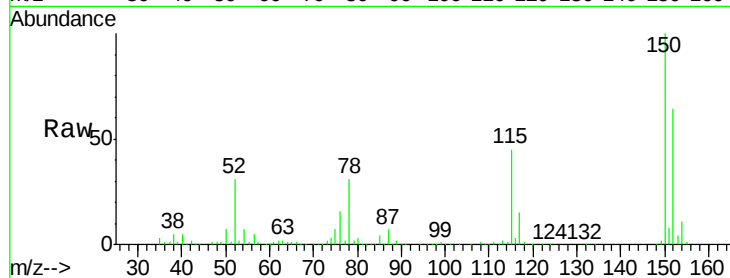
Tgt Ion: 79 Resp: 14774

Ion Ratio Lower Upper

79 100

108 30.8 68.4 102.6#

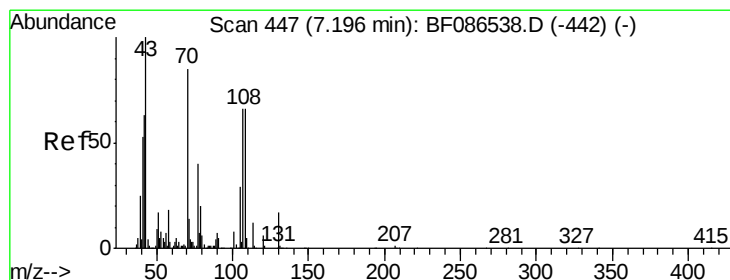
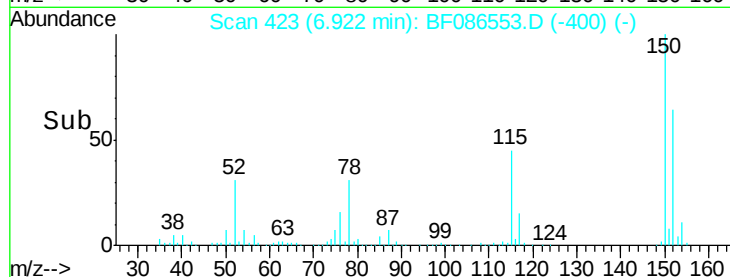
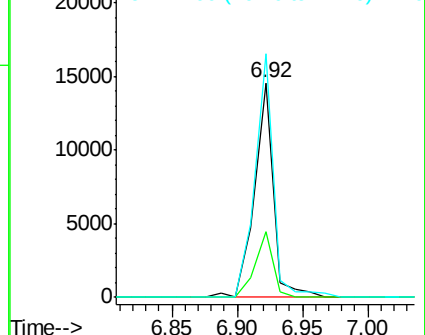
77 113.5 50.6 76.0#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 18.00 ng

RT: 7.33 min Scan# 459

Delta R.T. 0.10 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

Tgt Ion: 70 Resp: 121844

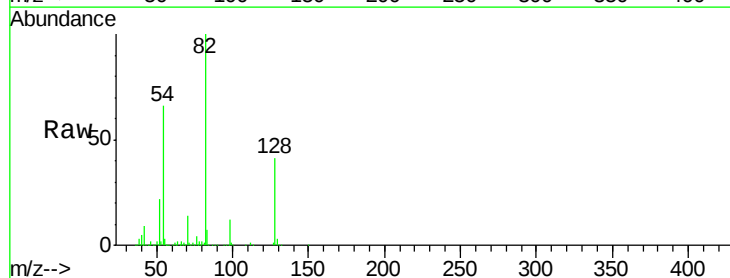
Ion Ratio Lower Upper

70 100

42 62.2 43.1 64.7

101 0.0 8.1 12.1#

130 2.1 18.6 28.0#

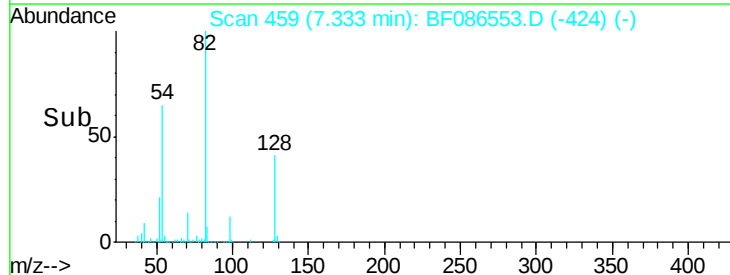
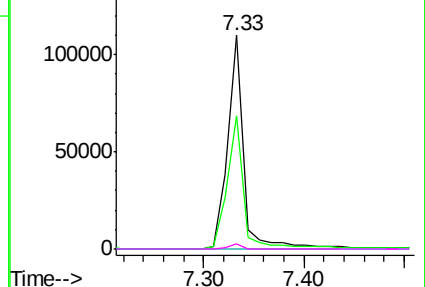


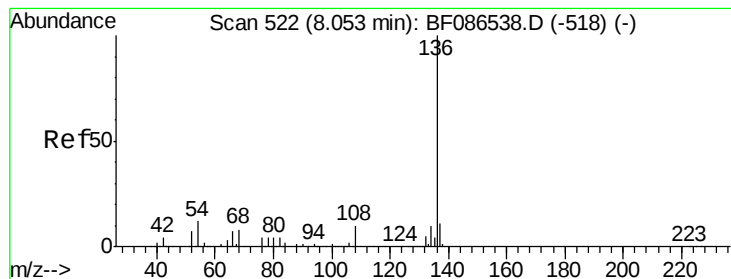
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 522

Delta R.T. -0.05 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

Instrument :

BNA\_F

ClientSampleId :

HW-23-4-26-16

Tgt Ion:136 Resp: 557032

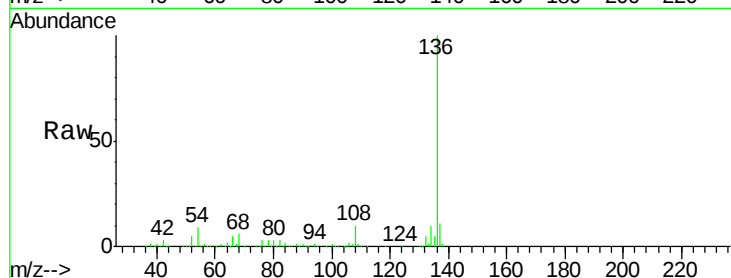
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 9.3 5.0 7.4#

68 5.9 4.4 6.6

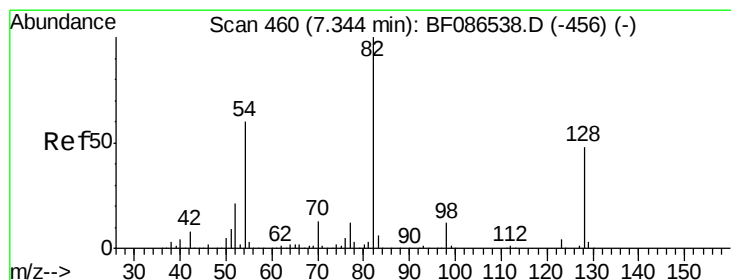
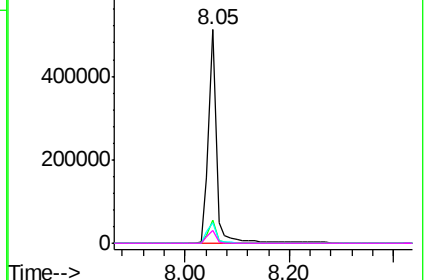
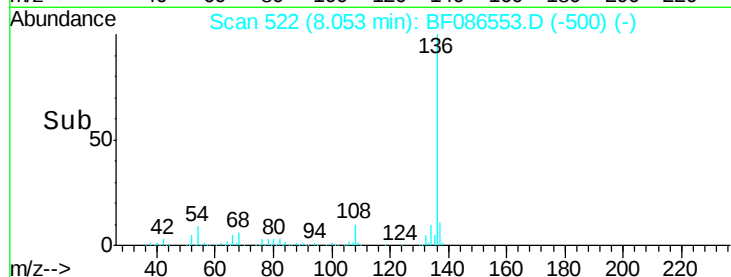


Abundance Ion 136.00 (135.70 to 136.70): E

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: 87.47 ng

RT: 7.33 min Scan# 459

Delta R.T. -0.05 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

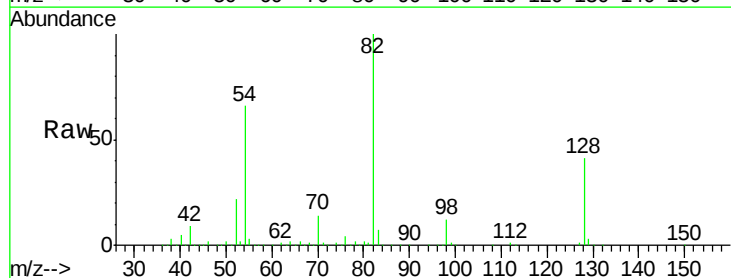
Tgt Ion: 82 Resp: 903942

Ion Ratio Lower Upper

82 100

128 41.4 40.6 61.0

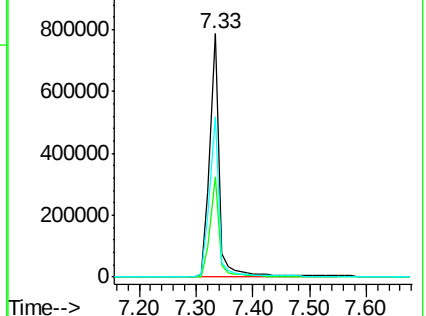
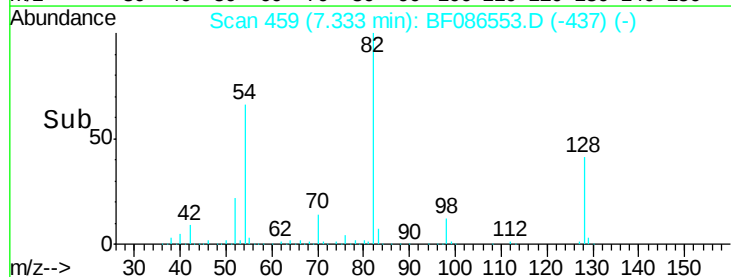
54 65.8 38.1 57.1#

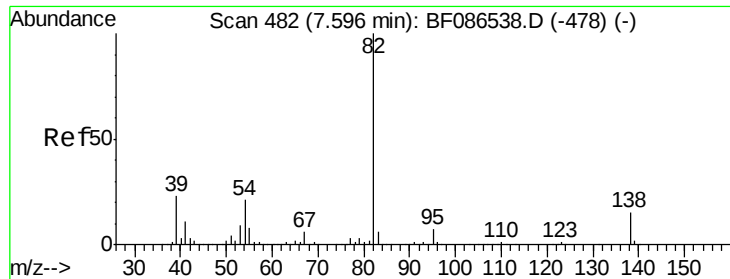


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 33.18 ng

RT: 7.33 min Scan# 459

Delta R.T. -0.31 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

Instrument :

BNA\_F

ClientSampleId :

HW-23-4-26-16

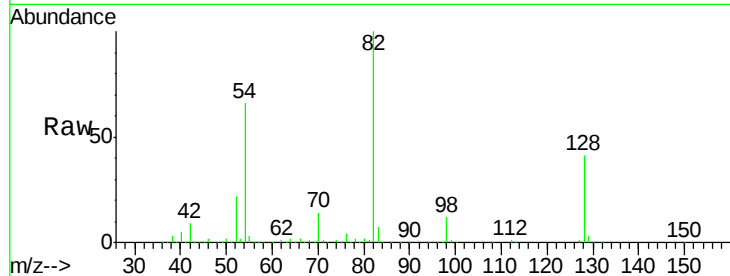
Tgt Ion: 82 Resp: 659830

Ion Ratio Lower Upper

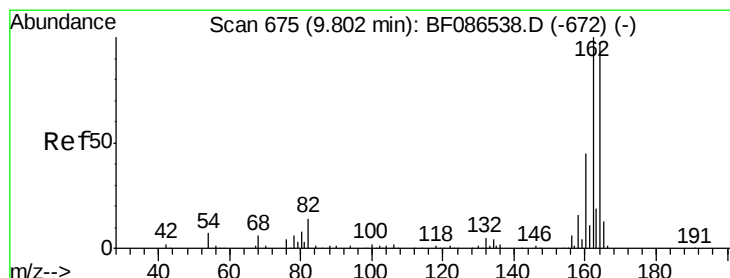
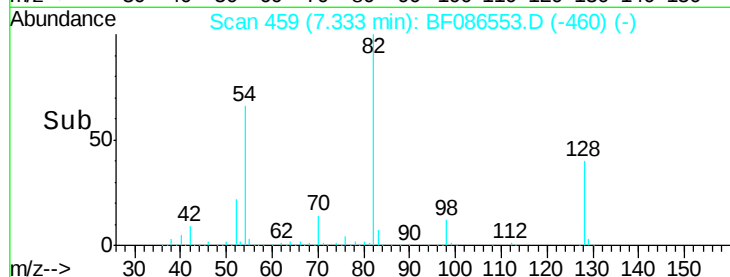
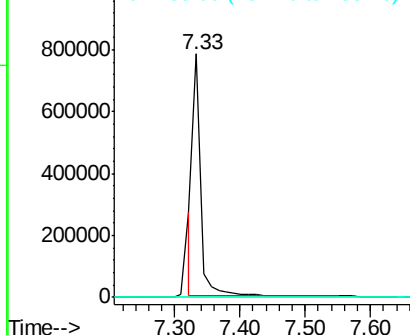
82 100

95 0.0 5.1 7.7#

138 0.0 12.4 18.6#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.05 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

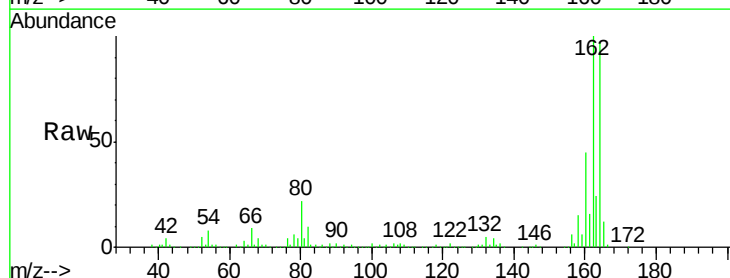
Tgt Ion: 164 Resp: 274986

Ion Ratio Lower Upper

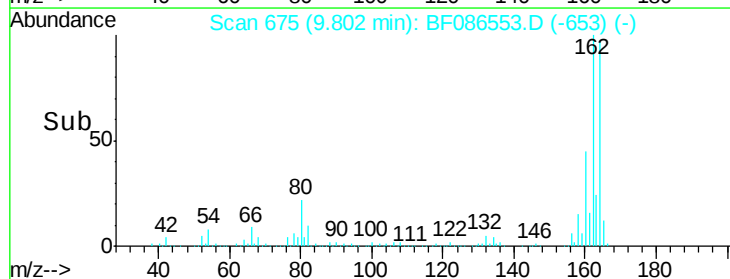
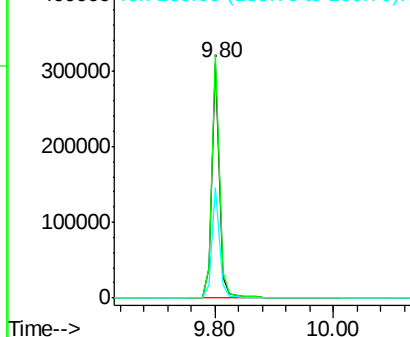
164 100

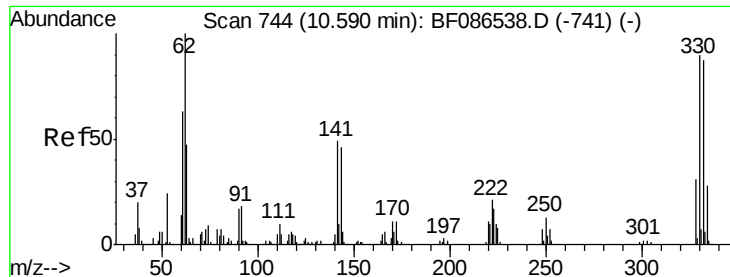
162 103.6 82.8 124.2

160 46.8 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

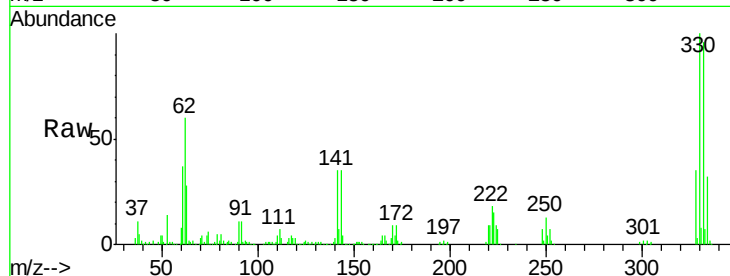




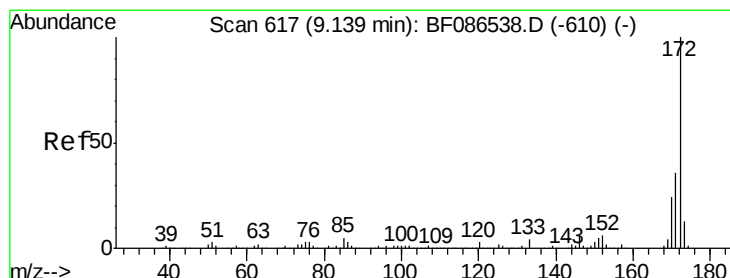
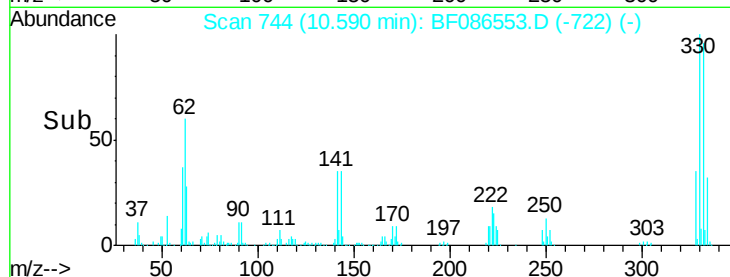
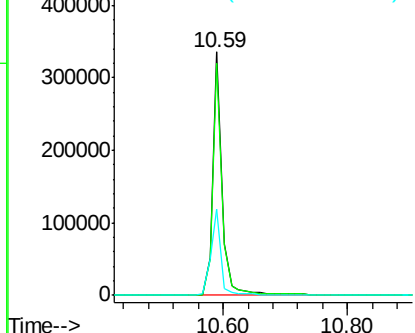
#41  
 2,4,6-Tribromophenol  
 Concen: 121.36 ng  
 RT: 10.59 min Scan# 744  
 Delta R.T. -0.05 min  
 Lab File: BF086553.D  
 Acq: 1 May 2016 6:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HW-23-4-26-16

Tgt Ion:330 Resp: 351931  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 79.0 118.4  
 141 39.2 31.2 46.8

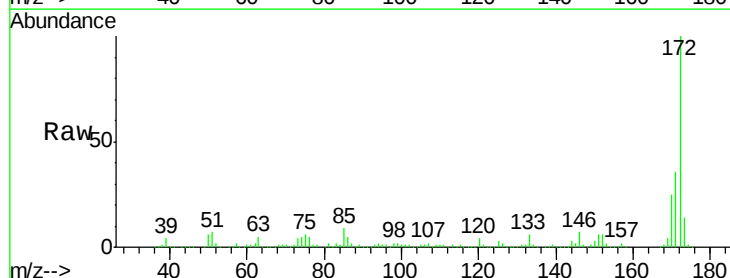


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

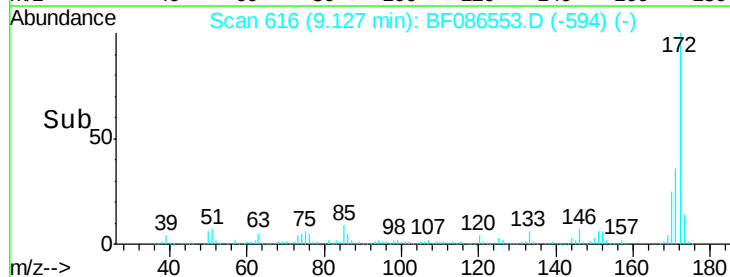
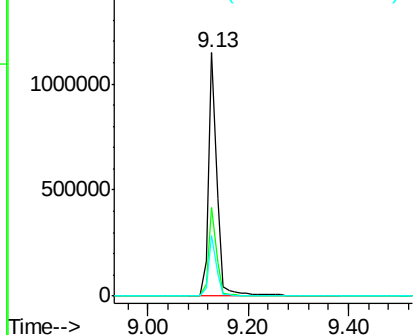


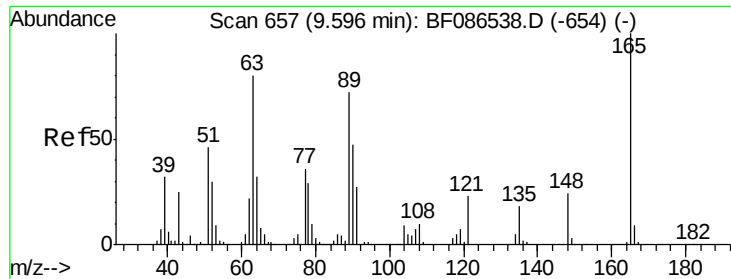
#44  
 2-Fluorobiphenyl  
 Concen: 85.82 ng  
 RT: 9.13 min Scan# 616  
 Delta R.T. -0.05 min  
 Lab File: BF086553.D  
 Acq: 1 May 2016 6:11

Tgt Ion:172 Resp: 1345652  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.0 43.6  
 170 24.8 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

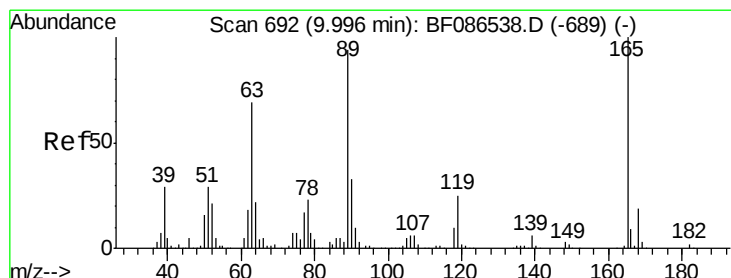
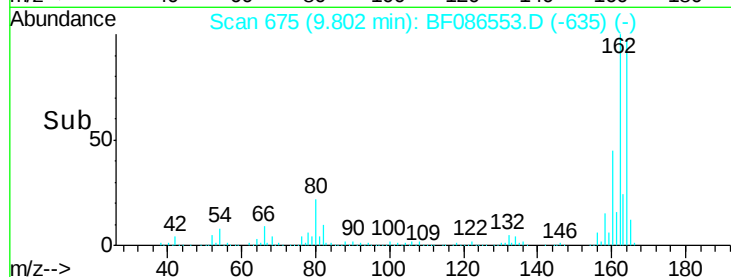
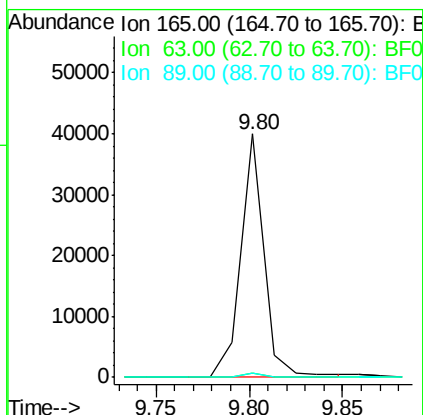
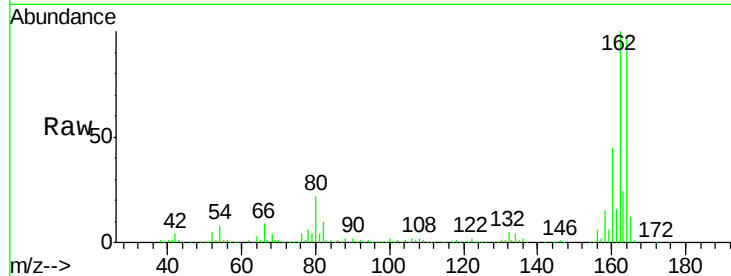




#50  
 2,6-Dinitrotoluene  
 Concen: 8.19 ng  
 RT: 9.80 min Scan# 675  
 Delta R.T. 0.16 min  
 Lab File: BF086553.D  
 Acq: 1 May 2016 6:11

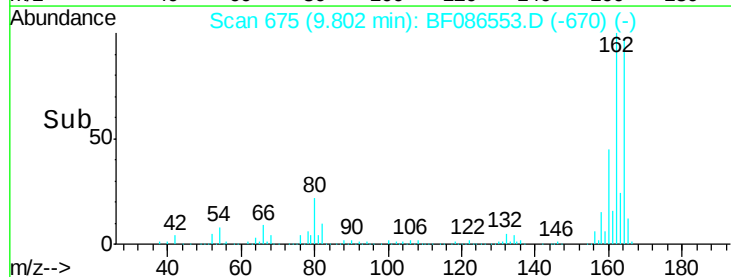
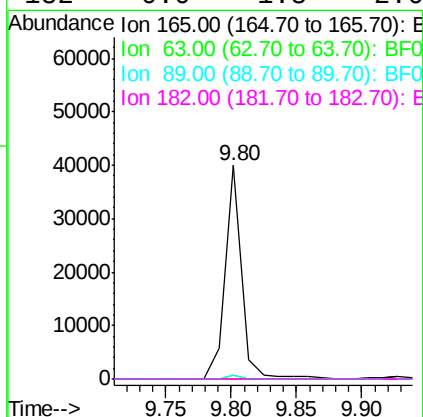
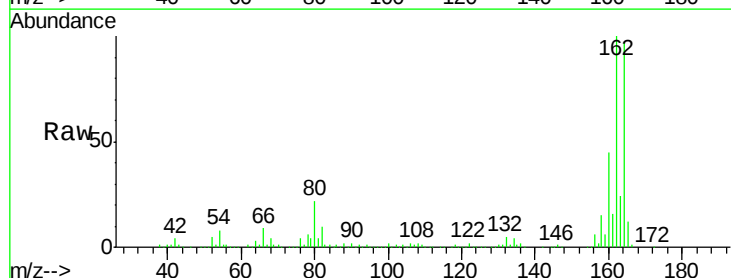
Instrument :  
 BNA\_F  
 ClientSampleId :  
 HW-23-4-26-16

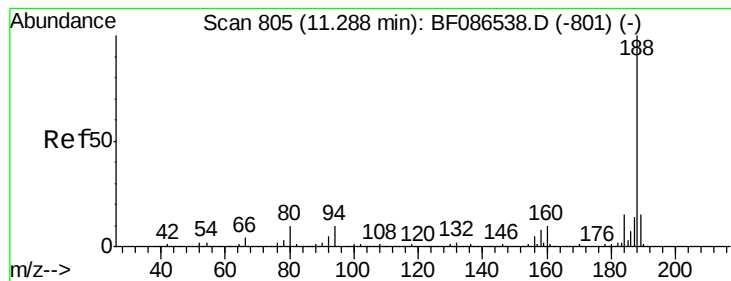
Tgt Ion:165 Resp: 35017  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 51.8 77.8#  
 89 1.6 50.7 76.1#



#56  
 2,4-Dinitrotoluene  
 Concen: 6.51 ng  
 RT: 9.80 min Scan# 675  
 Delta R.T. -0.24 min  
 Lab File: BF086553.D  
 Acq: 1 May 2016 6:11

Tgt Ion:165 Resp: 35513  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 44.3 66.5#  
 89 1.6 70.0 105.0#  
 182 0.0 1.8 2.6#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.28 min Scan# 804

Delta R.T. -0.05 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

Instrument :

BNA\_F

ClientSampleId :

HW-23-4-26-16

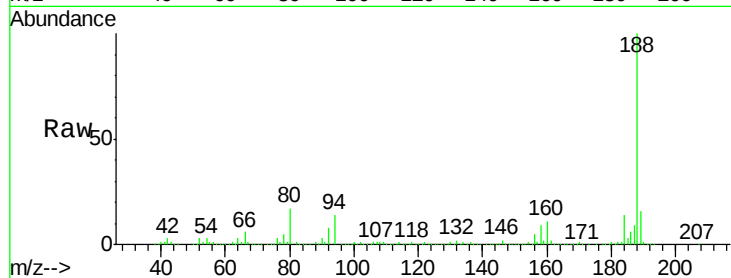
Tgt Ion:188 Resp: 483682

Ion Ratio Lower Upper

188 100

94 14.4 6.8 10.2#

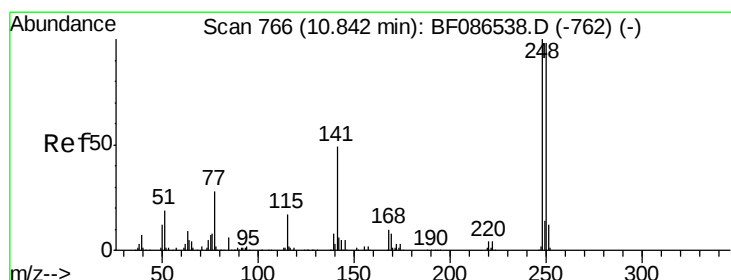
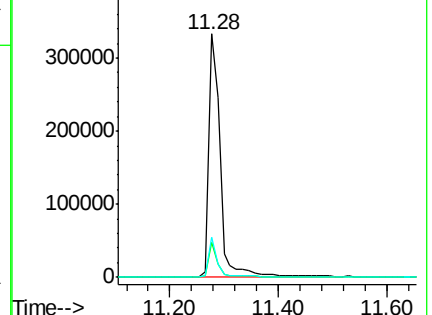
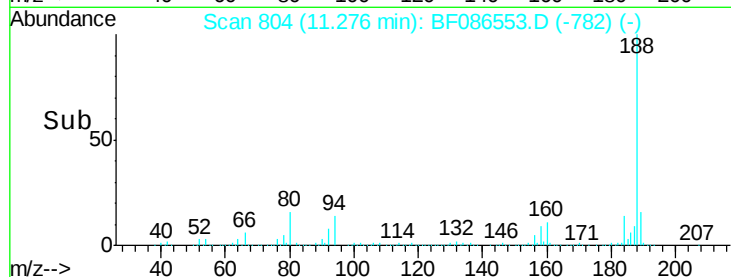
80 16.5 7.1 10.7#



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



#66

4-Bromophenyl-phenylether

Concen: 4.42 ng

RT: 10.59 min Scan# 744

Delta R.T. -0.29 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

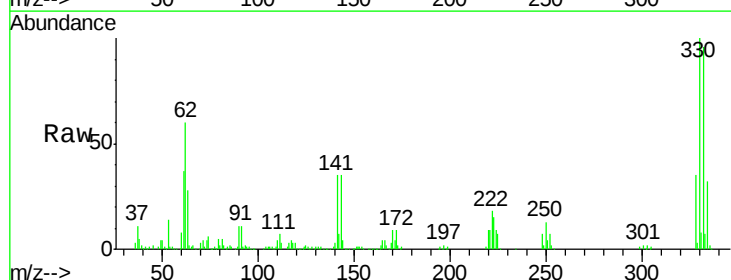
Tgt Ion:248 Resp: 22025

Ion Ratio Lower Upper

248 100

250 192.1 78.6 117.8#

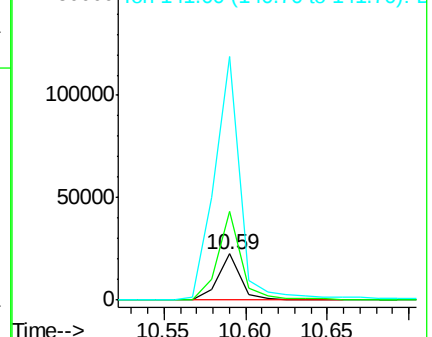
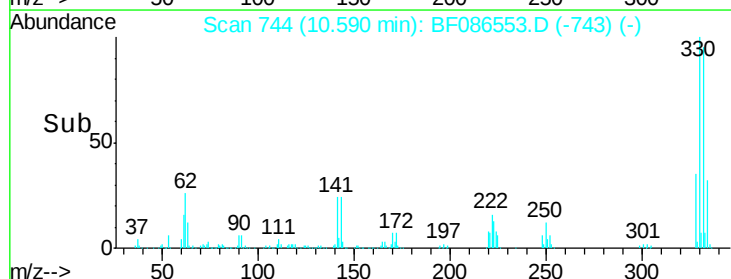
141 524.1 76.0 114.0#

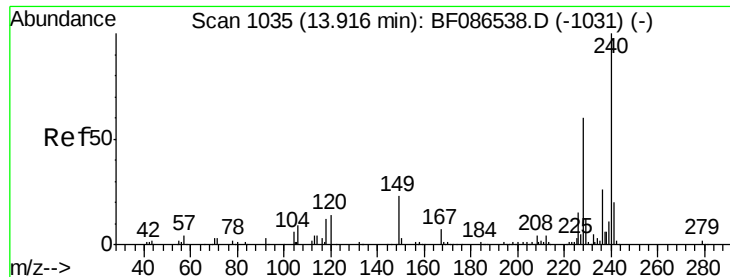


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.06 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

Instrument :

BNA\_F

ClientSampleId :

HW-23-4-26-16

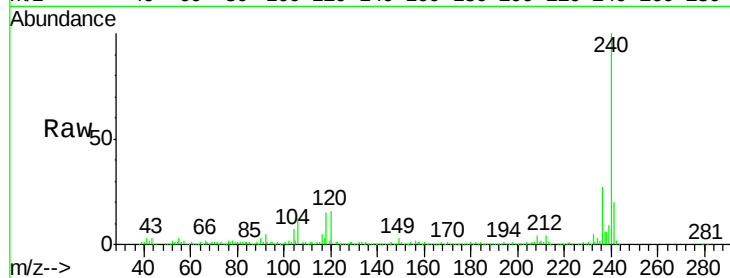
Tgt Ion:240 Resp: 340257

Ion Ratio Lower Upper

240 100

120 16.3 11.2 16.8

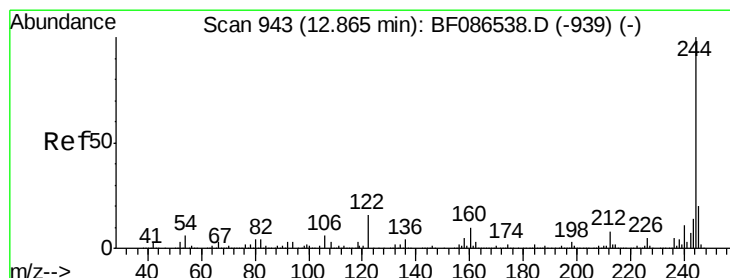
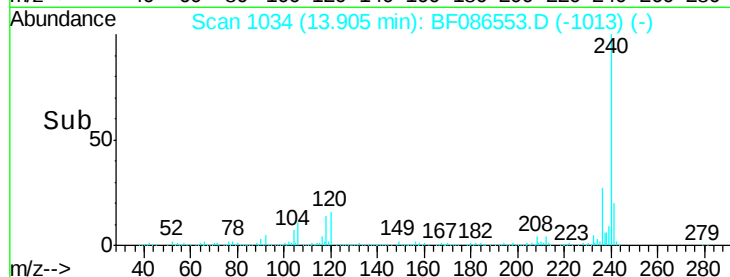
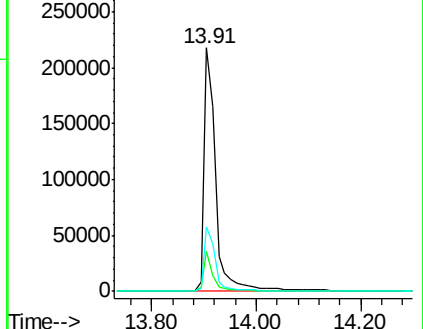
236 26.5 21.2 31.8



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: 84.37 ng

RT: 12.86 min Scan# 943

Delta R.T. -0.05 min

Lab File: BF086553.D

Acq: 1 May 2016 6:11

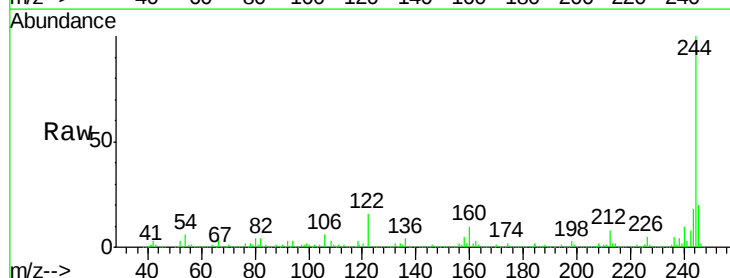
Tgt Ion:244 Resp: 1302968

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

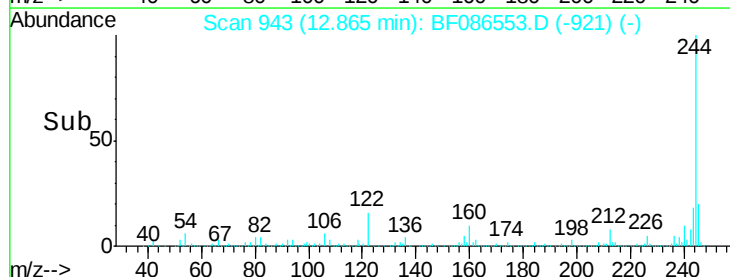
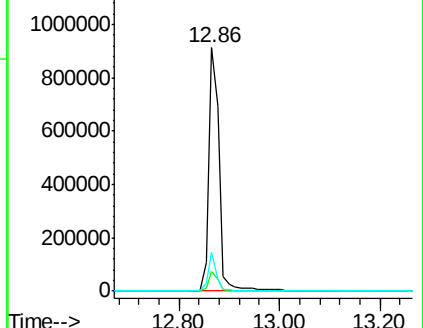
122 16.0 12.0 18.0

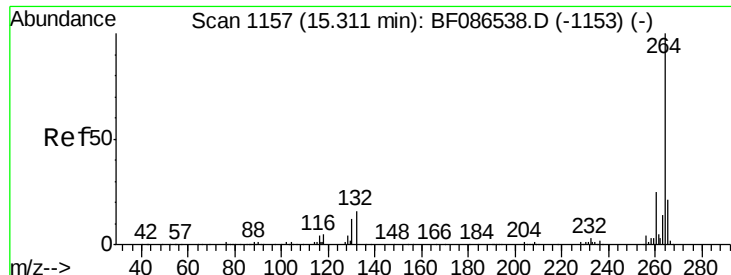


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

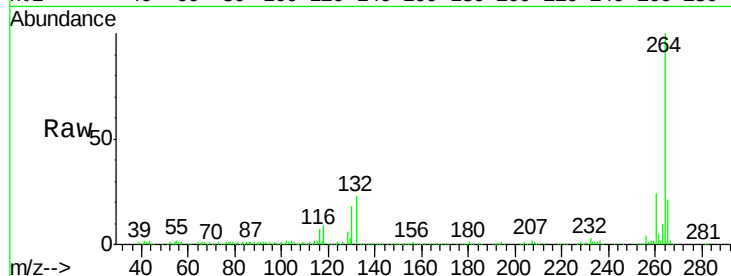




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.30 min Scan# 1156  
Delta R.T. -0.06 min  
Lab File: BF086553.D  
Acq: 1 May 2016 6:11

Instrument :  
BNA\_F  
ClientSampleId :  
HW-23-4-26-16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.5  | 29.3  |
| 265     | 21.0  | 17.3  | 25.9  |



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

