

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112816\  
 Data File : BF091313.D  
 Acq On : 28 Nov 2016 15:18  
 Operator : UM/SJ  
 Sample : H5696-01RE  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 28 16:46:00 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 23 13:22:53 2016  
 Response via : Initial Calibration

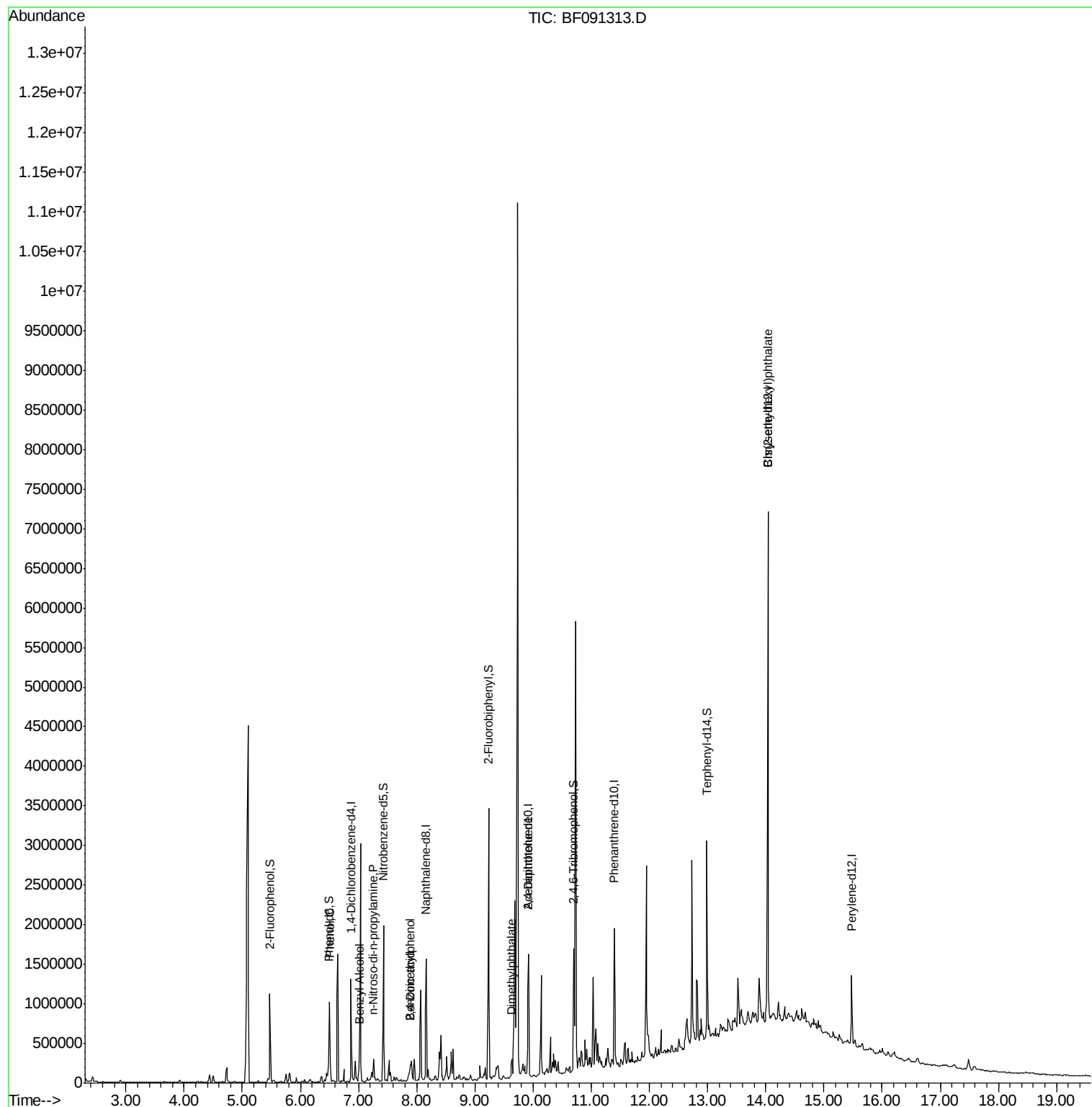
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 194735   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.16  | 136  | 841762   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.92  | 164  | 470498   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.40 | 188  | 733642   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 14.04 | 240  | 486880   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.48 | 264  | 450413   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 299561   | 24.72 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.49  | 99   | 268722   | 17.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 677193   | 46.31 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.70 | 330  | 175018   | 36.89 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.24  | 172  | 1325114  | 46.12 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.99 | 244  | 834264   | 39.13 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 10) Phenol                     | 6.50  | 94   | 244029   | 14.05 | ng    | 94       |
| 15) Benzyl Alcohol             | 7.01  | 79   | 29308    | 2.42  | ng    | 92       |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 19617    | 2.01  | ng    | # 58     |
| 27) 2,4-Dimethylphenol         | 7.89  | 122  | 60939    | 4.68  | ng    | # 3      |
| 32) Benzoic acid               | 7.89  | 122  | 60939    | 5.94  | ng    | 91       |
| 49) Dimethylphthalate          | 9.64  | 163  | 110620   | 3.77  | ng    | # 99     |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 62833    | 7.74  | ng    | # 34     |
| 83) Bis(2-ethylhexyl)phthalate | 14.04 | 149  | 1440078  | 80.35 | ng    | # 94     |

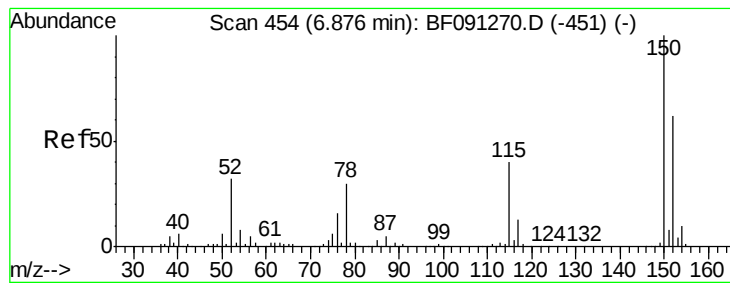
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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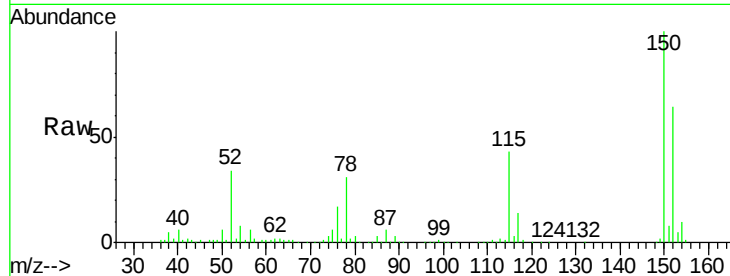


#1

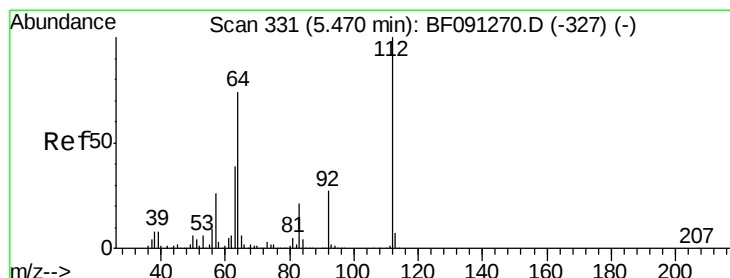
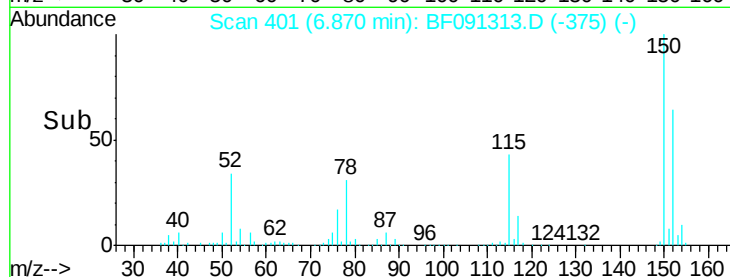
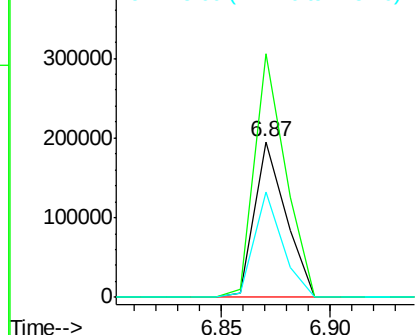
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.87 min Scan# 401  
Delta R.T. -0.01 min  
Lab File: BF091313.D  
Acq: 28 Nov 2016 15:18

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 194735  
Ion Ratio Lower Upper  
152 100  
150 156.7 122.5 183.7  
115 67.4 51.8 77.8



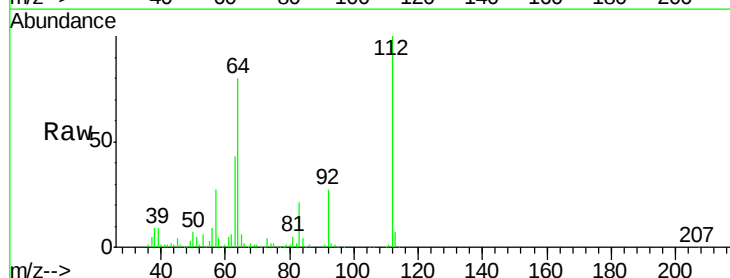
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



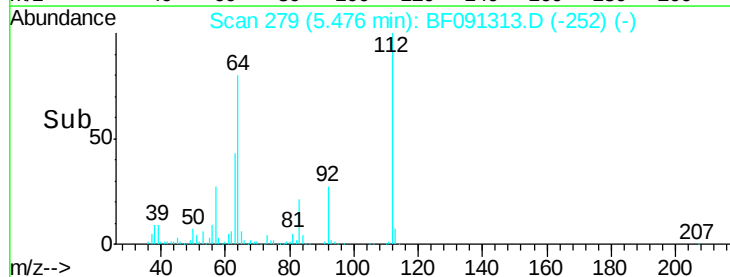
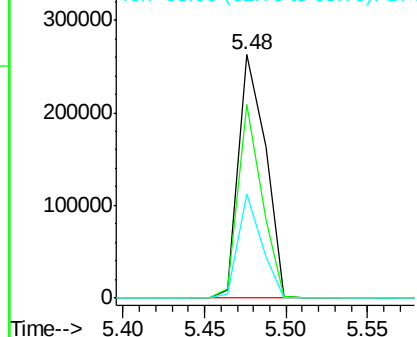
#5

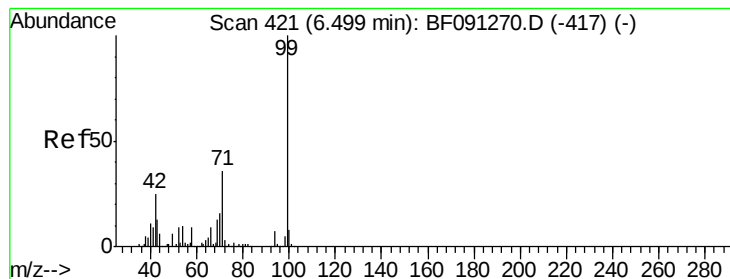
2-Fluorophenol  
Concen: 24.72 ng  
RT: 5.48 min Scan# 279  
Delta R.T. 0.01 min  
Lab File: BF091313.D  
Acq: 28 Nov 2016 15:18

Tgt Ion:112 Resp: 299561  
Ion Ratio Lower Upper  
112 100  
64 79.7 61.5 92.3  
63 42.5 33.3 49.9



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: 17.26 ng

RT: 6.49 min Scan# 368

Delta R.T. -0.01 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

Instrument :

BNA\_F

ClientSampleId :

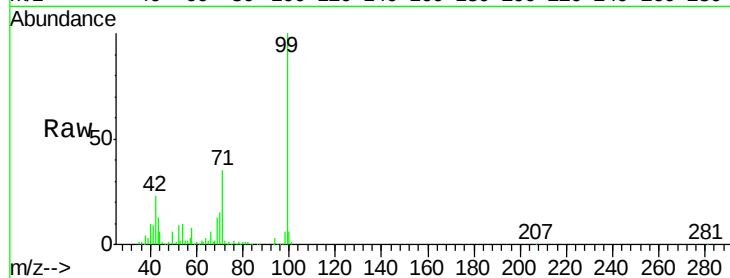
Tot Ion: 99 Resp: 268722

Ion Ratio Lower Upper

99 100

42 23.5 20.6 31.0

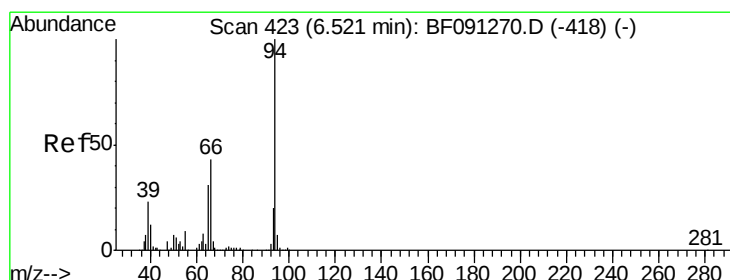
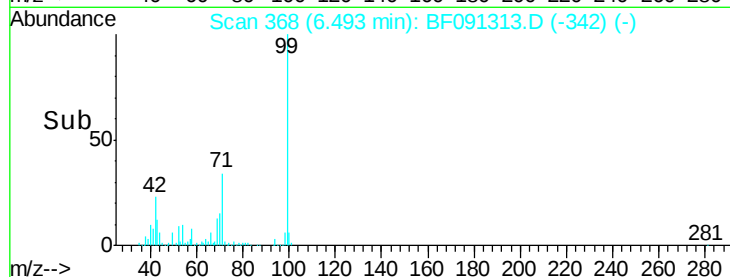
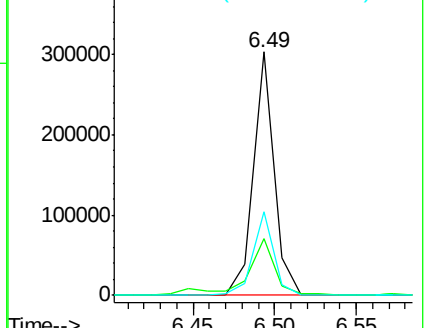
71 34.5 29.9 44.9



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: 14.05 ng

RT: 6.50 min Scan# 369

Delta R.T. -0.02 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

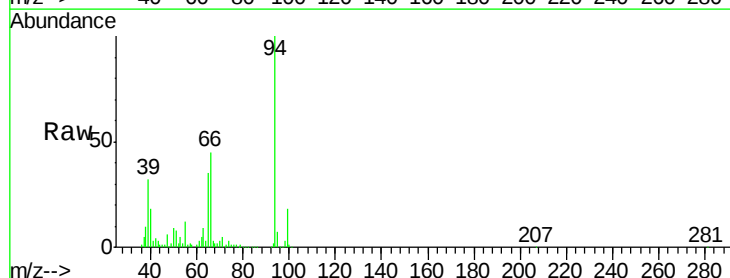
Tgt Ion: 94 Resp: 244029

Ion Ratio Lower Upper

94 100

65 34.5 16.9 56.9

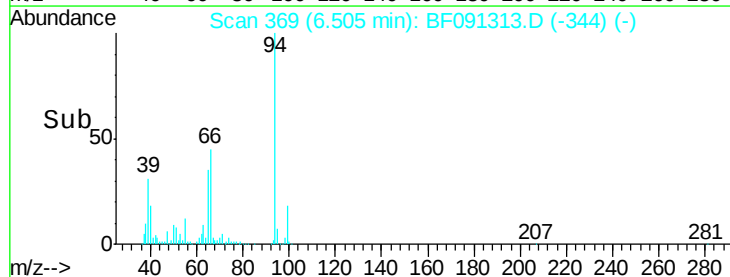
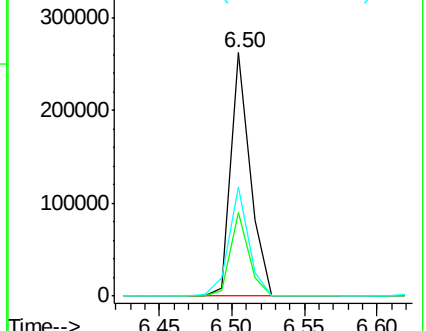
66 45.0 30.6 70.6

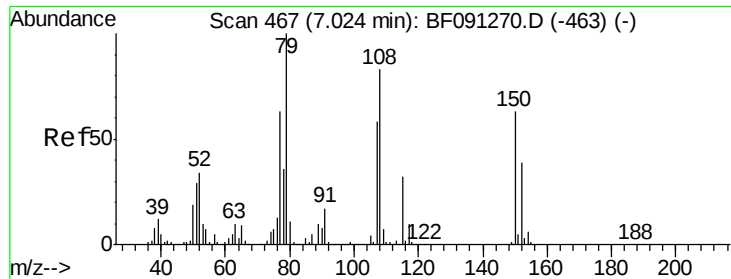


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.42 ng

RT: 7.01 min Scan# 413

Delta R.T. -0.02 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

Instrument :

BNA\_F

ClientSampleId :

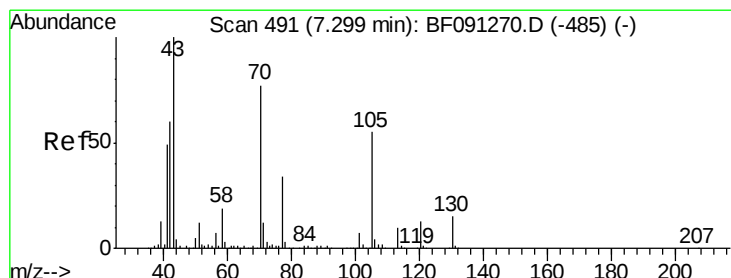
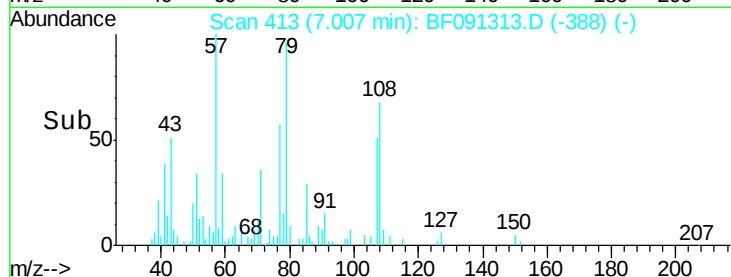
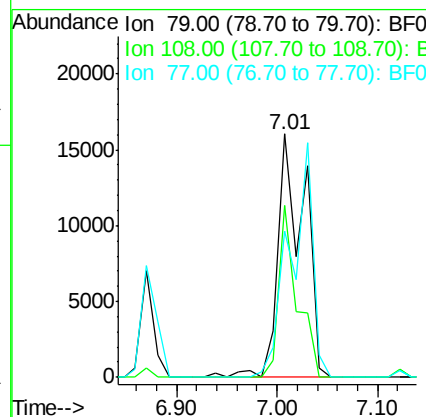
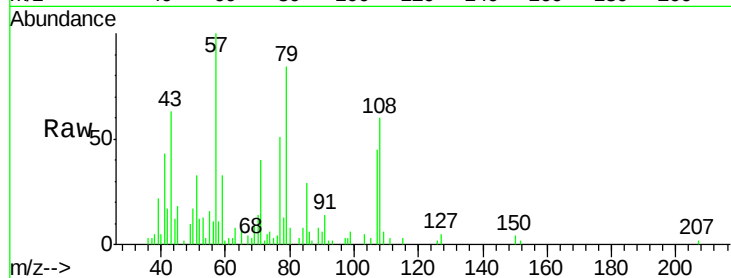
Tot Ion: 79 Resp: 29308

Ion Ratio Lower Upper

79 100

108 70.5 62.7 94.1

77 59.9 51.7 77.5



#19

n-Nitroso-di-n-propylamine

Concen: 2.01 ng

RT: 7.26 min Scan# 435

Delta R.T. -0.04 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

Tgt Ion: 70 Resp: 19617

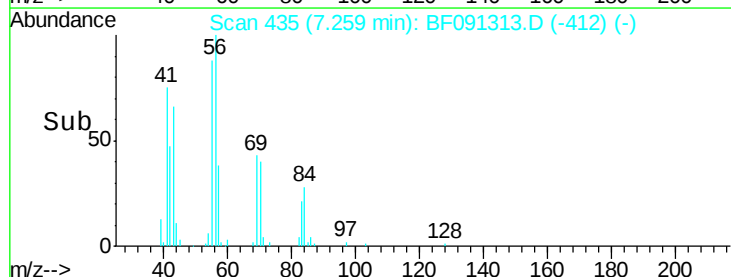
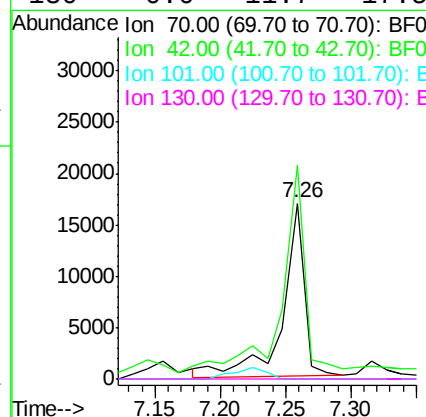
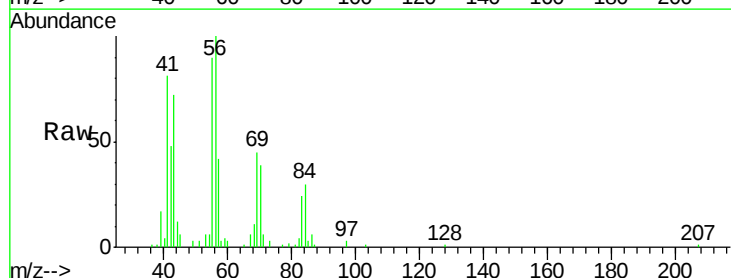
Ion Ratio Lower Upper

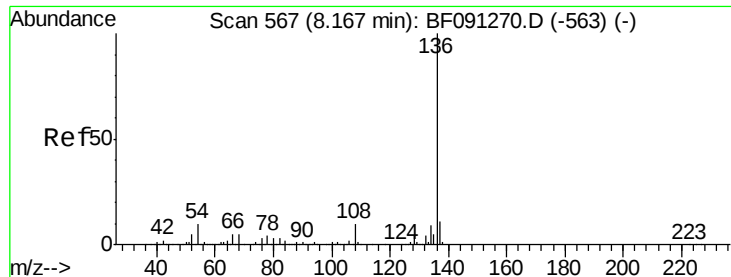
70 100

42 121.6 64.8 97.2#

101 0.0 6.2 9.4#

130 0.0 11.7 17.5#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 514

Delta R.T. -0.01 min

Lab File: BF091313.D

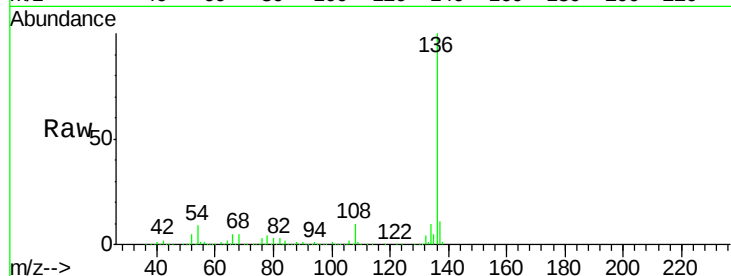
Acq: 28 Nov 2016 15:18

Instrument :

BNA\_F

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 841762   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 9.1 13.7 |
| 54          | 9.4   | 9.1 13.7 |
| 68          | 5.1   | 5.9 8.9# |

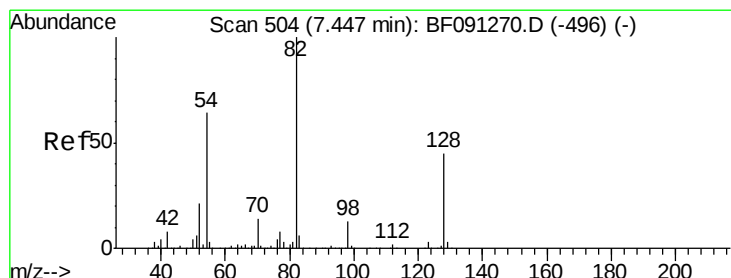
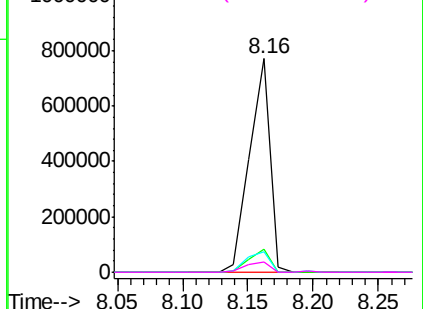
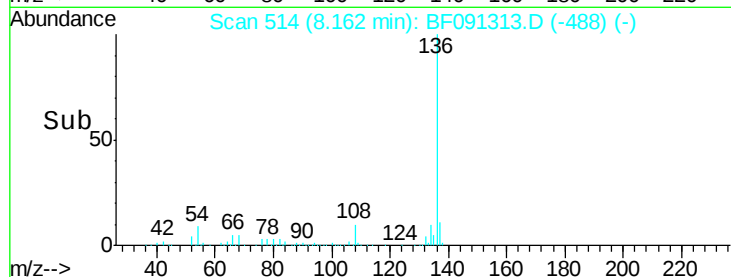


Abundance Ion 136.00 (135.70 to 136.70): E

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: 46.31 ng

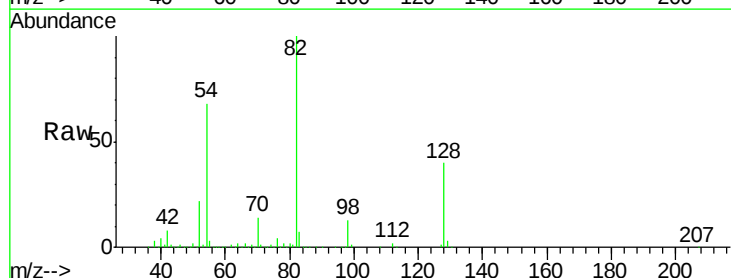
RT: 7.43 min Scan# 450

Delta R.T. -0.02 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

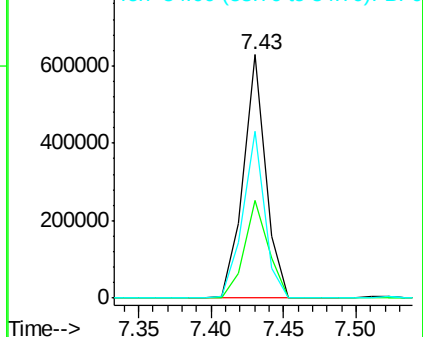
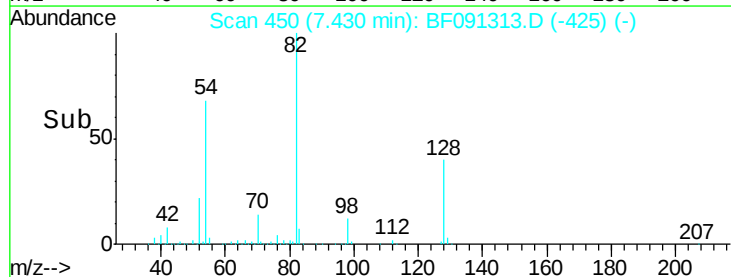
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 677193    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 40.2  | 31.8 47.6 |
| 54          | 68.4  | 49.1 73.7 |

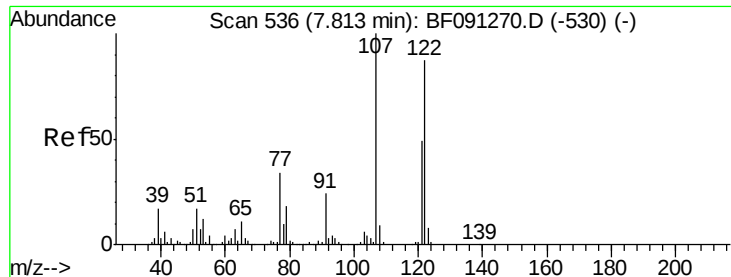


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#27

2,4-Dimethylphenol

Concen: 4.68 ng

RT: 7.89 min Scan# 490

Delta R.T. 0.07 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

Instrument :

BNA\_F

ClientSampleId :

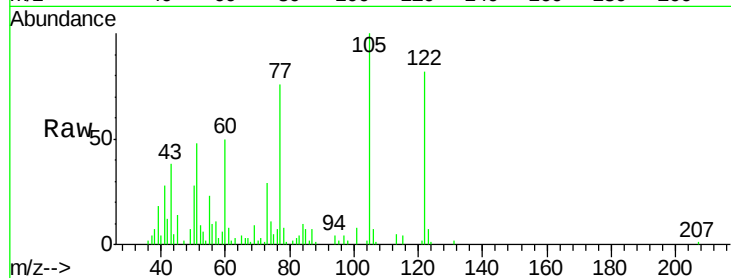
Tot Ion:122 Resp: 60939

Ion Ratio Lower Upper

122 100

107 1.4 96.8 145.2#

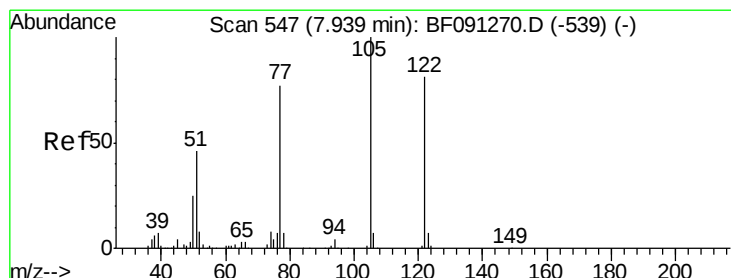
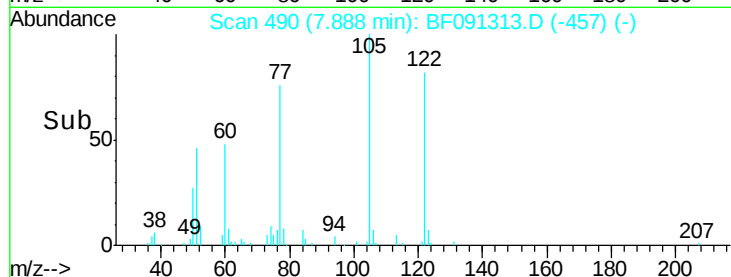
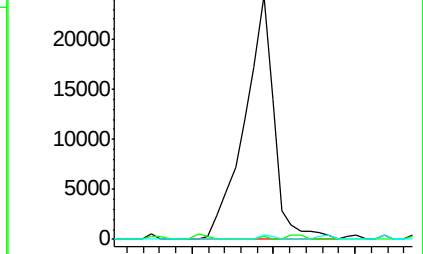
121 2.0 47.7 71.5#



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



#32

Benzoic acid

Concen: 5.94 ng

RT: 7.89 min Scan# 490

Delta R.T. -0.05 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

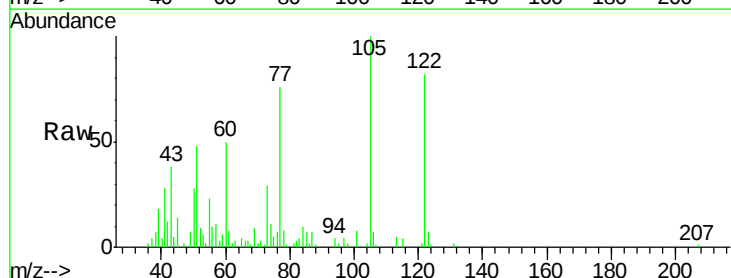
Tgt Ion:122 Resp: 60939

Ion Ratio Lower Upper

122 100

105 122.5 113.0 153.0

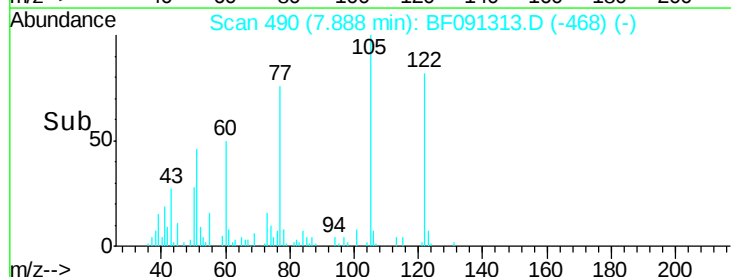
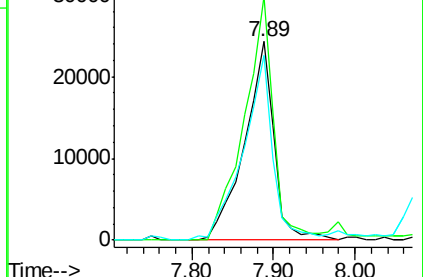
77 93.1 82.0 122.0

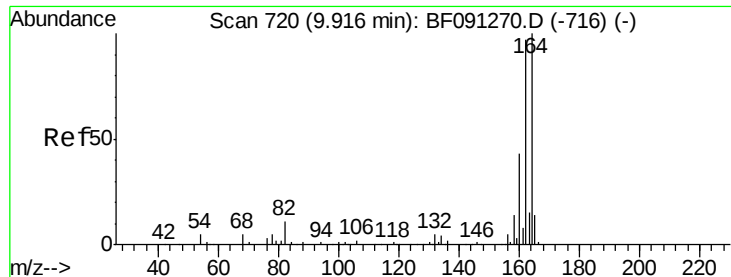


Abundance Ion 122.00 (121.70 to 122.70): E

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: 9.92 min Scan# 668

Delta R.T. 0.01 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

Instrument :

BNA\_F

ClientSampleId :

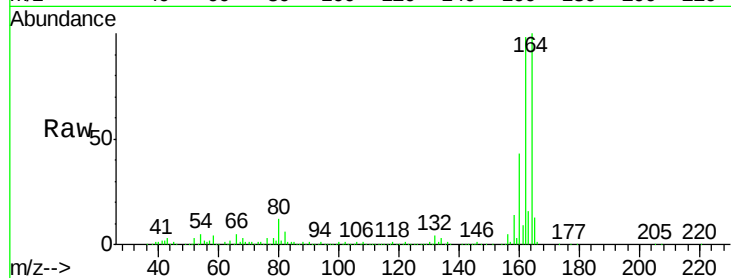
Tot Ion:164 Resp: 470498

Ion Ratio Lower Upper

164 100

162 97.7 82.6 124.0

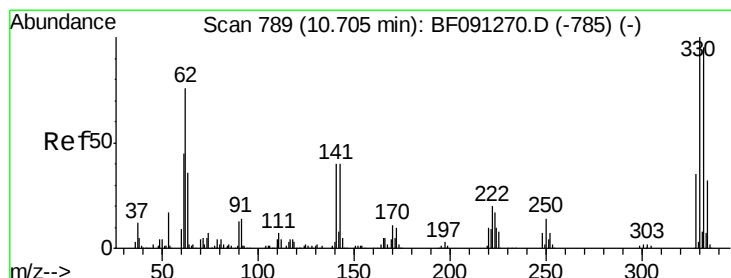
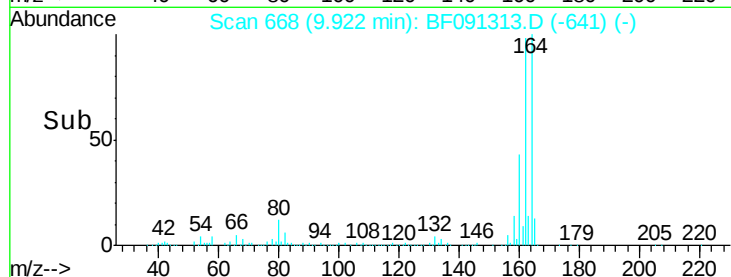
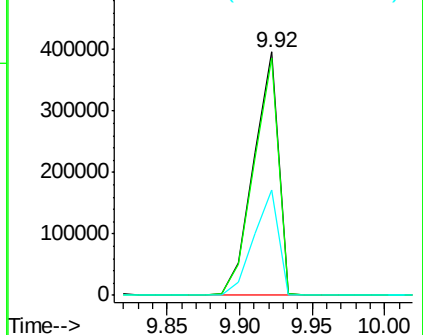
160 43.3 36.7 55.1



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: 36.89 ng

RT: 10.70 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

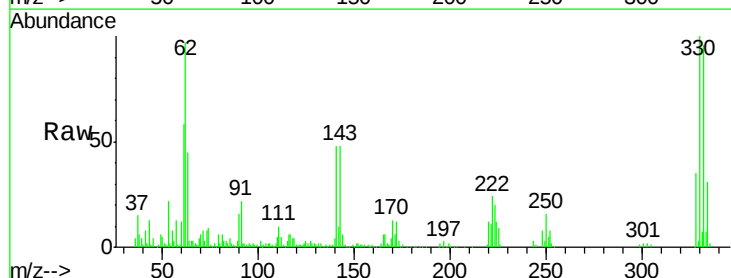
Tgt Ion:330 Resp: 175018

Ion Ratio Lower Upper

330 100

332 96.9 76.2 114.4

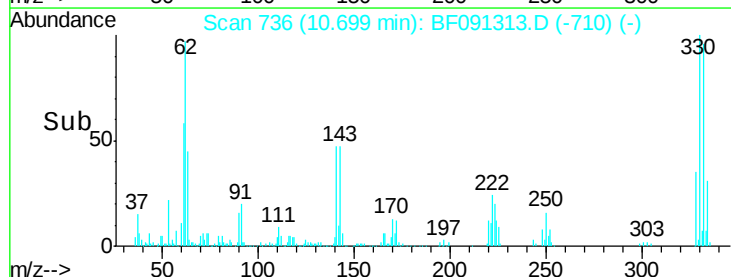
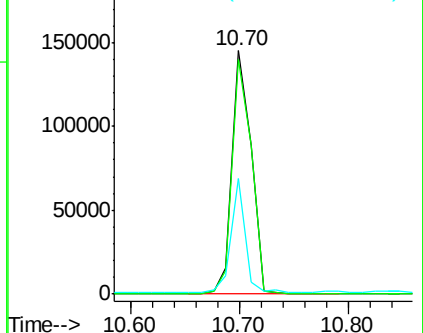
141 35.4 33.6 50.4

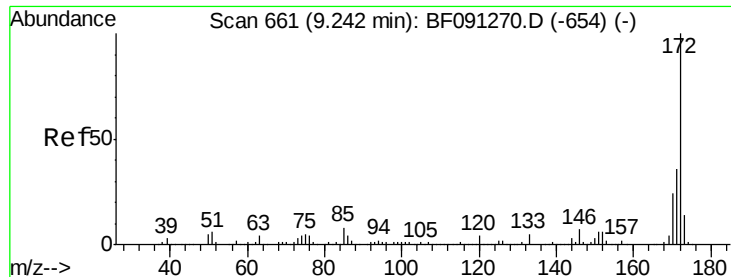


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

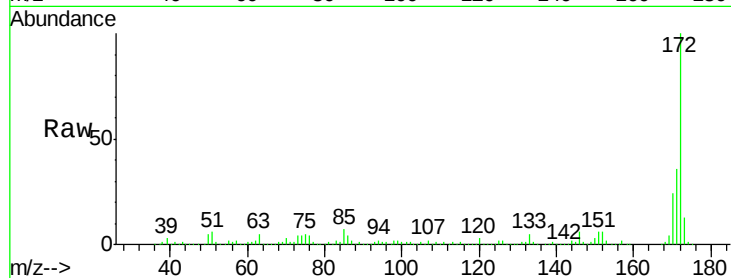




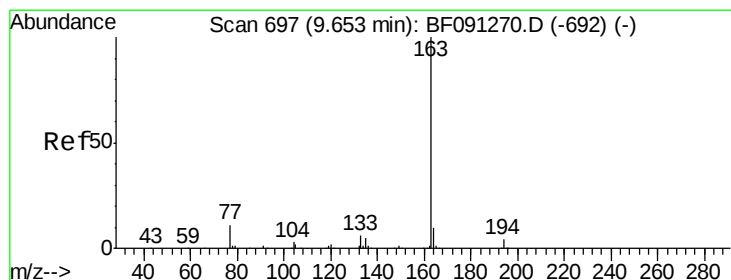
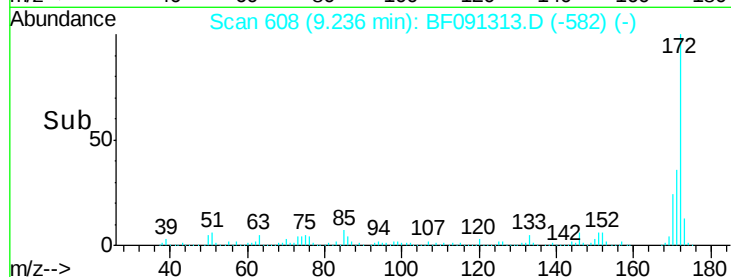
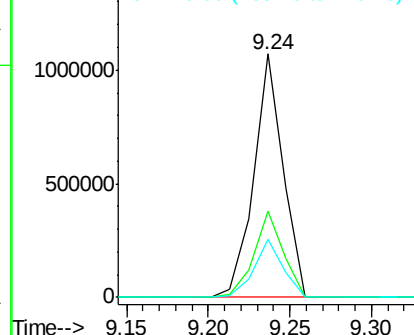
#44  
 2-Fluorobiphenyl  
 Concen: 46.12 ng  
 RT: 9.24 min Scan# 608  
 Delta R.T. -0.00 min  
 Lab File: BF091313.D  
 Acq: 28 Nov 2016 15:18

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 1325114  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 29.4 44.0  
 170 23.9 19.7 29.5

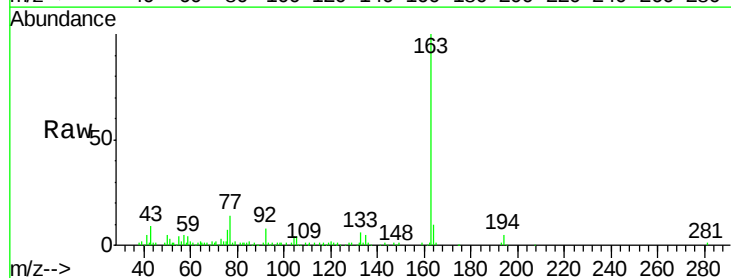


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

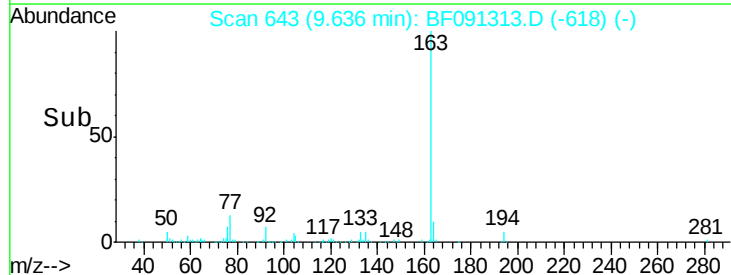
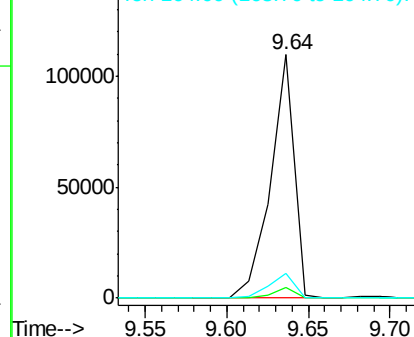


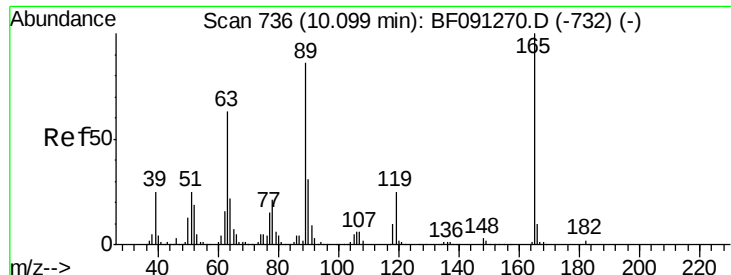
#49  
 Dimethylphthalate  
 Concen: 3.77 ng  
 RT: 9.64 min Scan# 643  
 Delta R.T. -0.02 min  
 Lab File: BF091313.D  
 Acq: 28 Nov 2016 15:18

Tgt Ion:163 Resp: 110620  
 Ion Ratio Lower Upper  
 163 100  
 194 4.6 3.0 4.4#  
 164 10.0 7.8 11.8



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

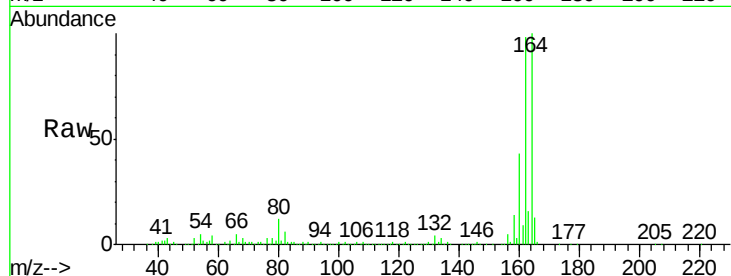




#56  
2,4-Dinitrotoluene  
Concen: 7.74 ng  
RT: 9.92 min Scan# 668  
Delta R.T. -0.18 min  
Lab File: BF091313.D  
Acq: 28 Nov 2016 15:18

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 29.0  | 43.4# |
| 89      | 0.9   | 43.1  | 64.7# |
| 182     | 0.0   | 1.9   | 2.9#  |

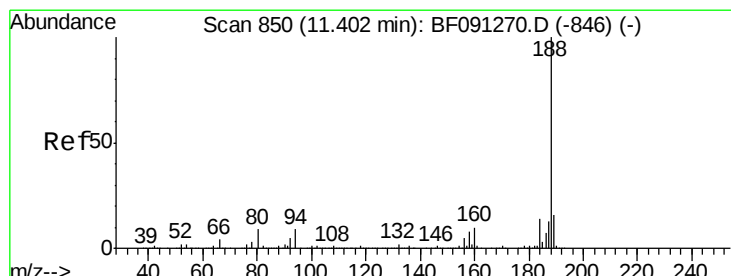
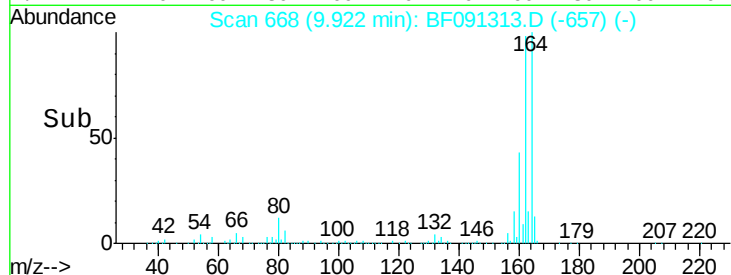
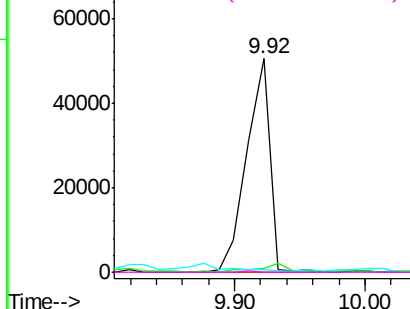


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

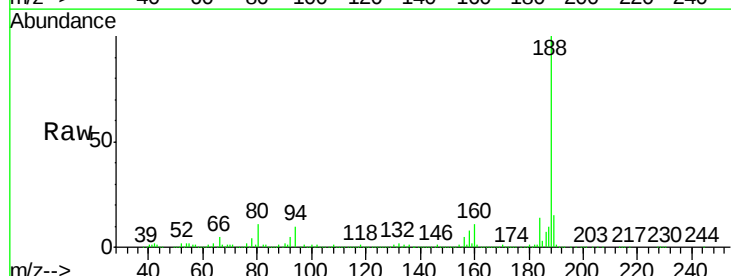
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.40 min Scan# 797  
Delta R.T. -0.01 min  
Lab File: BF091313.D  
Acq: 28 Nov 2016 15:18

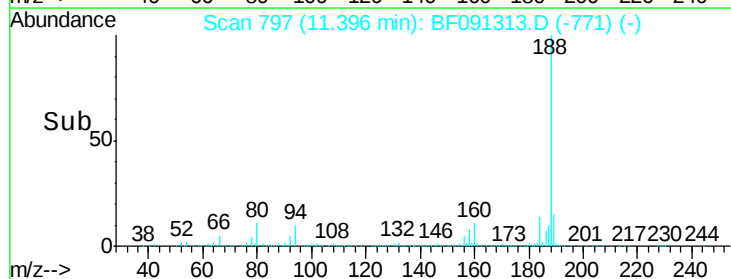
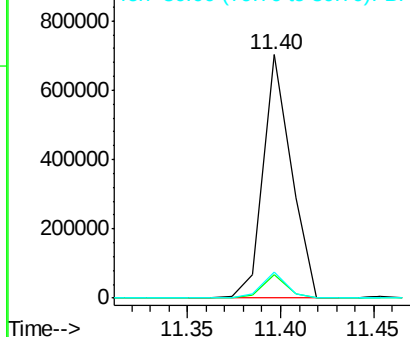
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.7   | 9.2   | 13.8  |
| 80      | 10.9  | 10.5  | 15.7  |

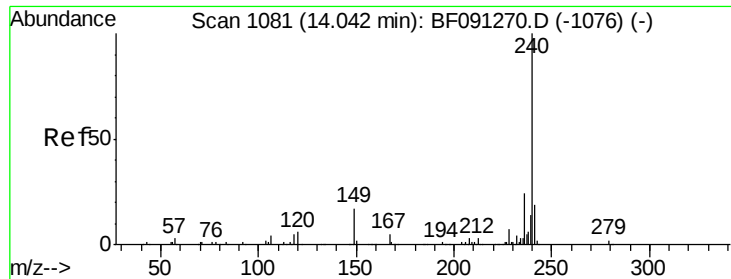


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

Instrument :

BNA\_F

ClientSampleId :

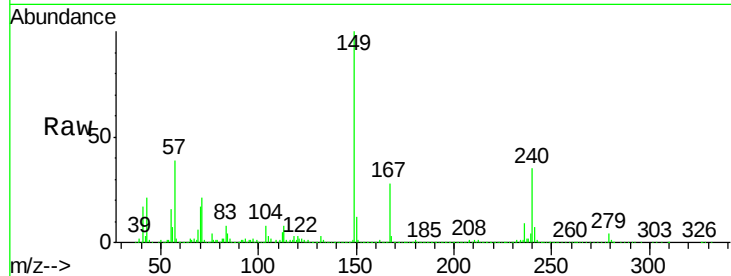
Tot Ion:240 Resp: 486880

Ion Ratio Lower Upper

240 100

120 8.9 12.1 18.1#

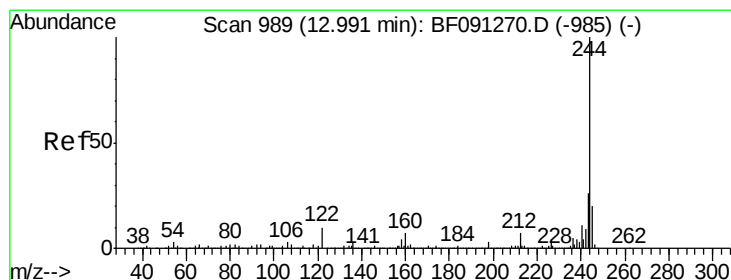
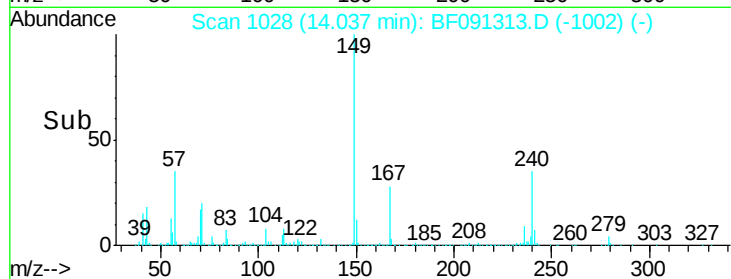
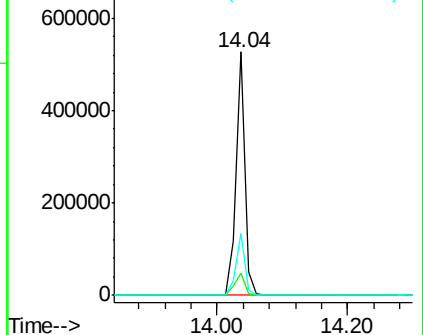
236 25.2 21.0 31.6



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: 39.13 ng

RT: 12.99 min Scan# 936

Delta R.T. -0.01 min

Lab File: BF091313.D

Acq: 28 Nov 2016 15:18

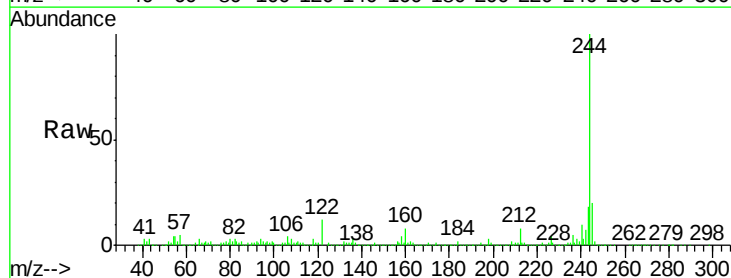
Tgt Ion:244 Resp: 834264

Ion Ratio Lower Upper

244 100

212 7.5 6.5 9.7

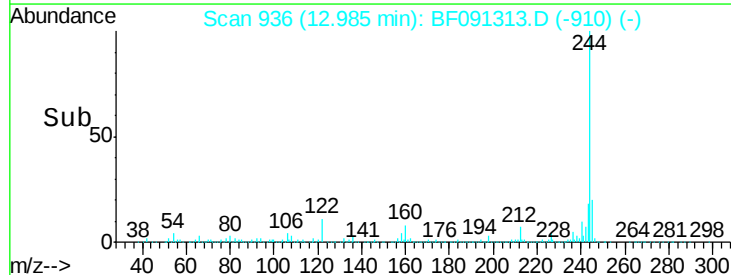
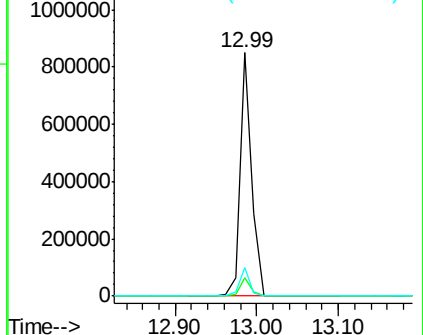
122 11.6 9.5 14.3

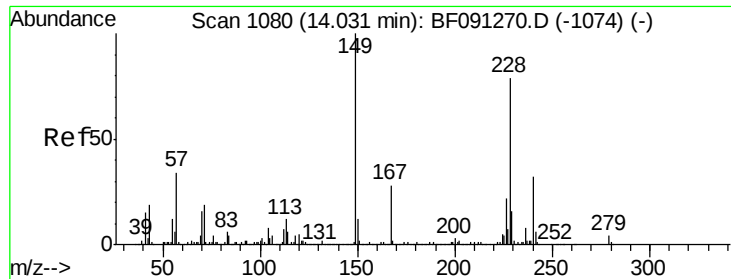


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

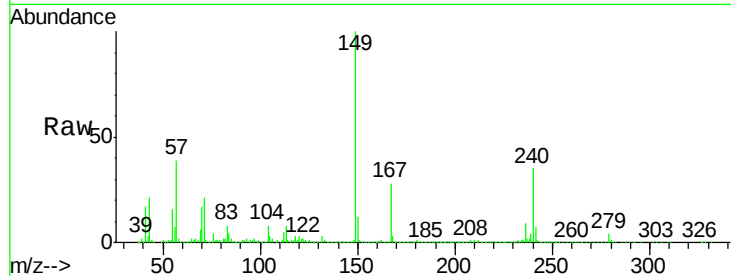




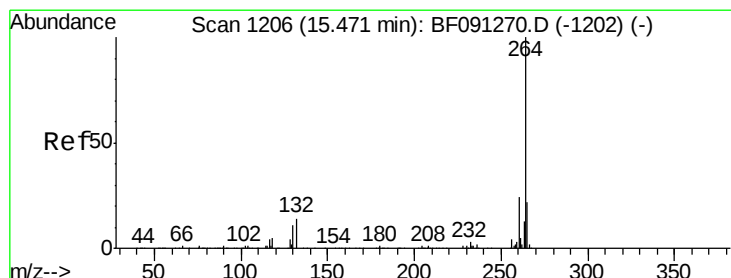
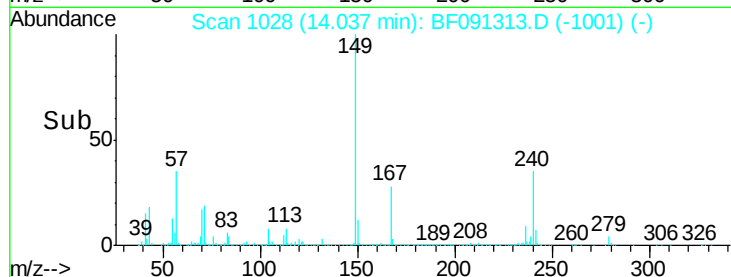
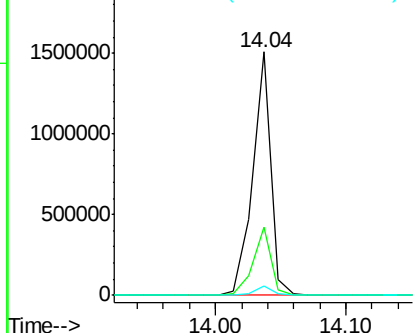
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 80.35 ng  
 RT: 14.04 min Scan# 1028  
 Delta R.T. 0.01 min  
 Lab File: BF091313.D  
 Acq: 28 Nov 2016 15:18

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:149 Resp: 1440078  
 Ion Ratio Lower Upper  
 149 100  
 167 27.8 19.6 29.4  
 279 3.6 1.9 2.9#

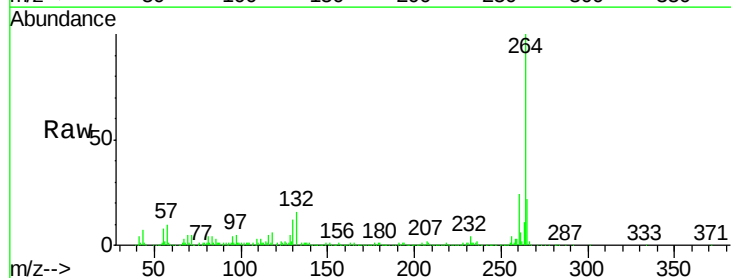


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.48 min Scan# 1154  
 Delta R.T. 0.01 min  
 Lab File: BF091313.D  
 Acq: 28 Nov 2016 15:18

Tgt Ion:264 Resp: 450413  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 18.8 28.2  
 265 22.3 17.0 25.6



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

