

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042517\  
 Data File : BF094614.D  
 Acq On : 25 Apr 2017 19:20  
 Operator : SJ/MA  
 Sample : I2824-02  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 26 01:26:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 17 14:59:23 2017  
 Response via : Initial Calibration

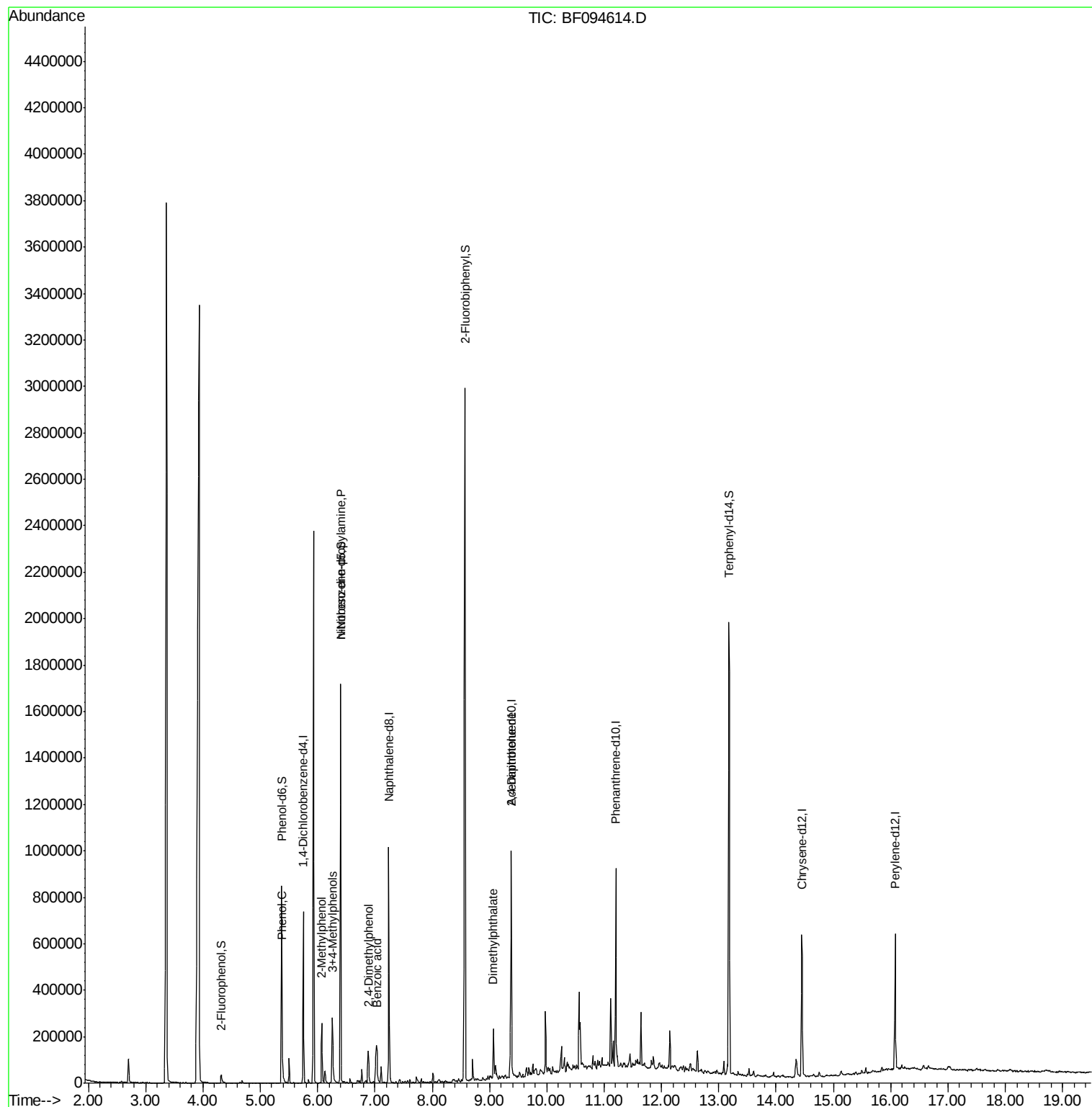
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 5.75  | 152  | 122077   | 20.00 | ng    | 0.00      |
| 21) Naphthalene-d8             | 7.24  | 136  | 484574   | 20.00 | ng    | -0.02     |
| 38) Acenaphthene-d10           | 9.38  | 164  | 205451   | 20.00 | ng    | -0.02     |
| 63) Phenanthrene-d10           | 11.20 | 188  | 327875   | 20.00 | ng    | -0.02     |
| 75) Chrysene-d12               | 14.45 | 240  | 246911   | 20.00 | ng    | -0.02     |
| 86) Perylene-d12               | 16.08 | 264  | 228212   | 20.00 | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 5) 2-Fluorophenol              | 4.32  | 112  | 16977    | 2.31  | ng    | 0.02      |
| 7) Phenol-d6                   | 5.37  | 99   | 298566   | 34.42 | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 6.40  | 82   | 598485   | 76.26 | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 0.00  | 330  | 0        | 0.00  | ng    |           |
| 44) 2-Fluorobiphenyl           | 8.57  | 172  | 1093883  | 78.34 | ng    | -0.01     |
| 78) Terphenyl-d14              | 13.18 | 244  | 722700   | 78.24 | ng    | -0.02     |
| Target Compounds               |       |      |          |       |       |           |
| 10) Phenol                     | 5.38  | 94   | 26401    | 2.48  | ng    | Qvalue 99 |
| 17) 2-Methylphenol             | 6.07  | 107  | 47146    | 7.15  | ng    | 97        |
| 19) n-Nitroso-di-n-propylamine | 6.40  | 70   | 77550    | 13.49 | ng    | # 75      |
| 20) 3+4-Methylphenols          | 6.26  | 107  | 92295    | 10.30 | ng    | # 63      |
| 27) 2,4-Dimethylphenol         | 6.89  | 122  | 34805    | 4.83  | ng    | 95        |
| 32) Benzoic acid               | 7.04  | 122  | 58264    | 15.28 | ng    | # 10      |
| 49) Dimethylphthalate          | 9.07  | 163  | 99401    | 6.49  | ng    | 99        |
| 56) 2,4-Dinitrotoluene         | 9.38  | 165  | 27001    | 6.40  | ng    | # 31      |

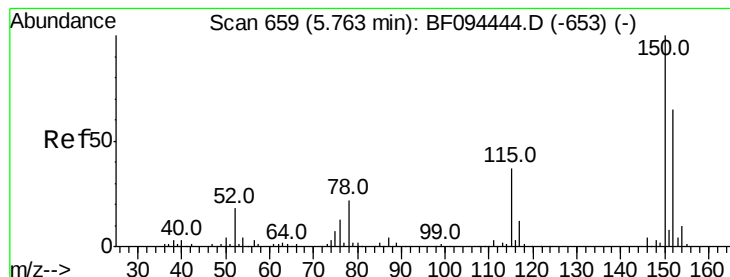
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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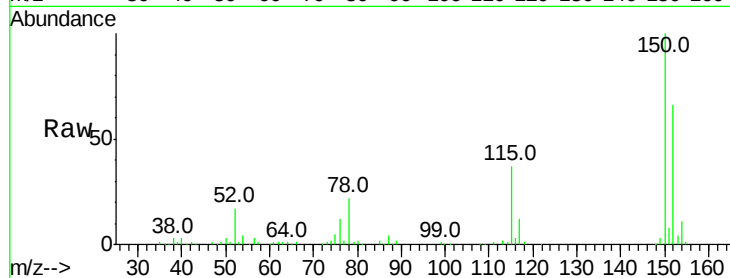


#1

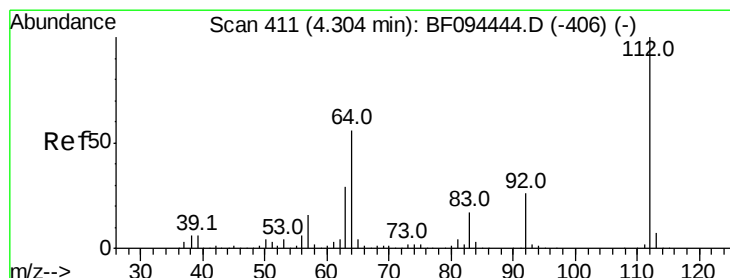
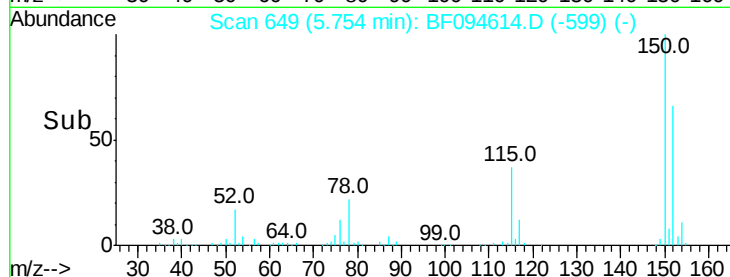
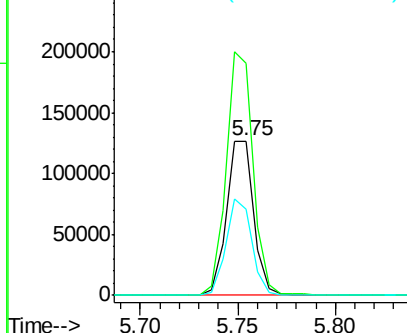
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.75 min Scan# 649  
Delta R.T. -0.01 min  
Lab File: BF094614.D  
Acq: 25 Apr 2017 19:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 122077  
Ion Ratio Lower Upper  
152 100  
150 150.5 126.2 189.2  
115 55.3 52.2 78.2



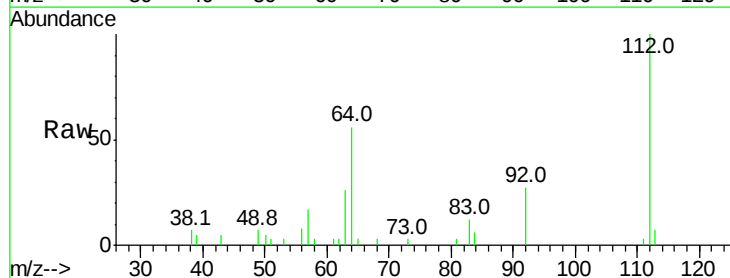
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



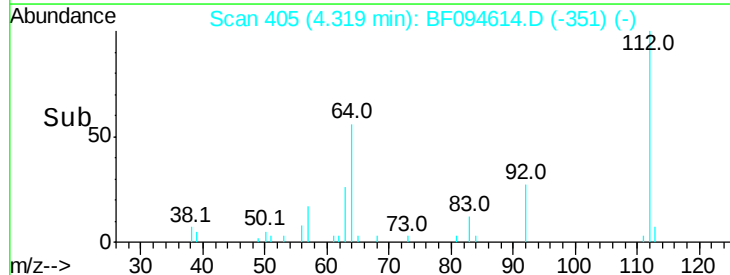
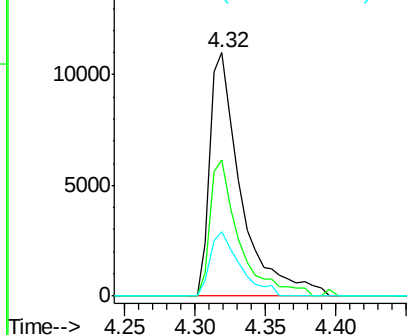
#5

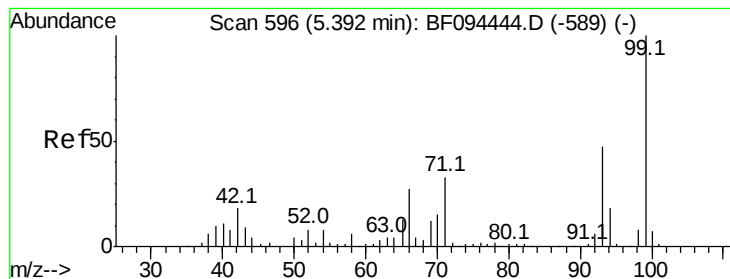
2-Fluorophenol  
Concen: 2.31 ng  
RT: 4.32 min Scan# 405  
Delta R.T. 0.02 min  
Lab File: BF094614.D  
Acq: 25 Apr 2017 19:20

Tgt Ion:112 Resp: 16977  
Ion Ratio Lower Upper  
112 100  
64 56.0 46.0 69.0  
63 26.2 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 34.42 ng

RT: 5.37 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF094614.D

Acq: 25 Apr 2017 19:20

Instrument :

BNA\_F

ClientSampled :

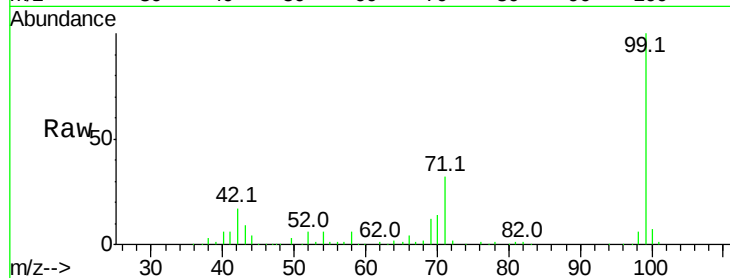
Tot Ion: 99 Resp: 298566

Ion Ratio Lower Upper

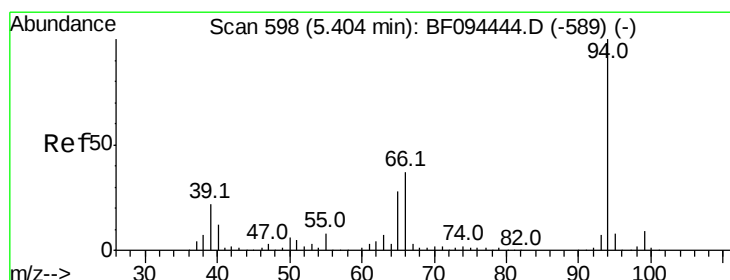
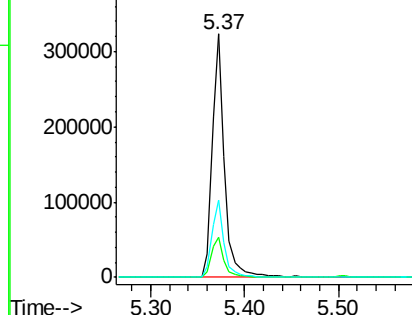
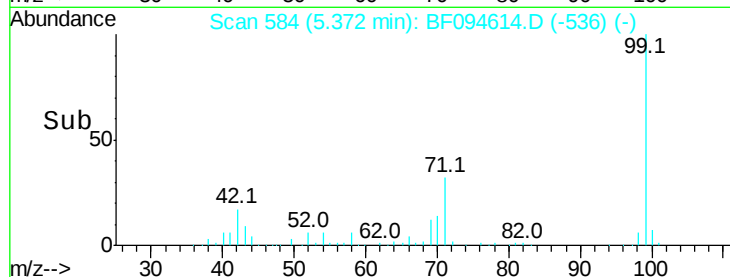
99 100

42 16.6 13.5 20.3

71 32.0 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: 2.48 ng

RT: 5.38 min Scan# 586

Delta R.T. -0.02 min

Lab File: BF094614.D

Acq: 25 Apr 2017 19:20

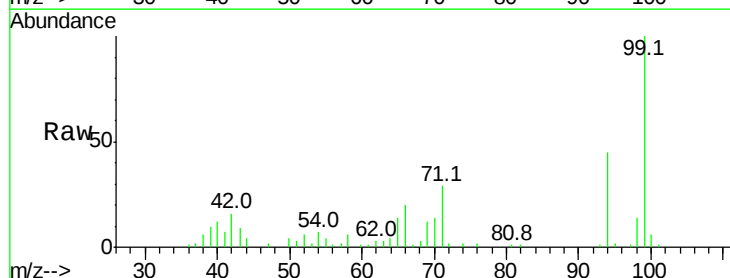
Tgt Ion: 94 Resp: 26401

Ion Ratio Lower Upper

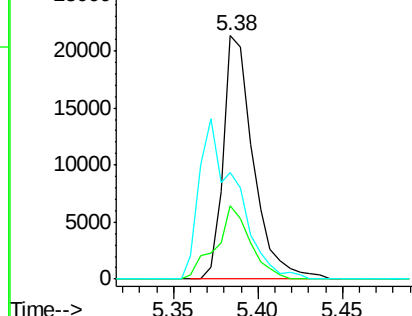
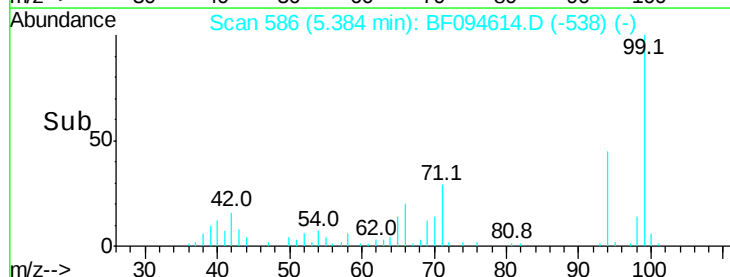
94 100

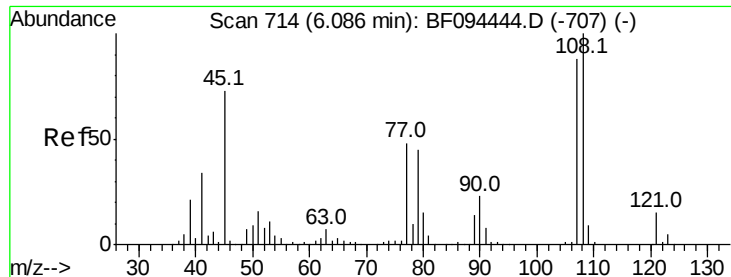
65 30.4 9.9 49.9

66 43.8 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: 7.15 ng

RT: 6.07 min Scan# 703

Delta R.T. -0.01 min

Lab File: BF094614.D

Acq: 25 Apr 2017 19:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:107 Resp: 47146

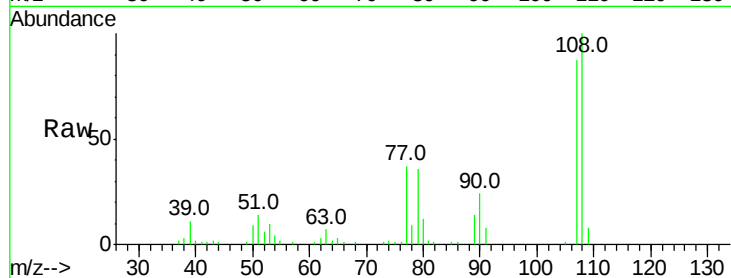
Ion Ratio Lower Upper

107 100

108 114.7 93.4 140.0

77 42.0 35.8 53.6

79 41.6 34.8 52.2

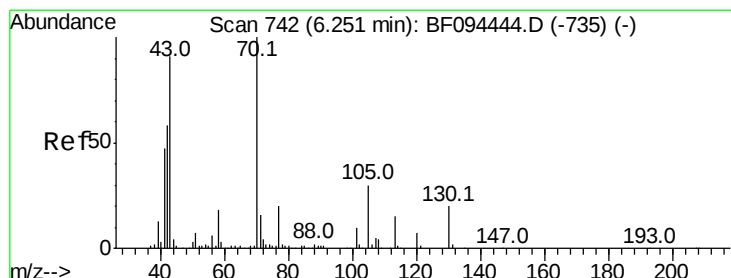
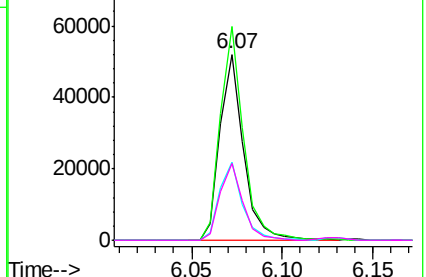
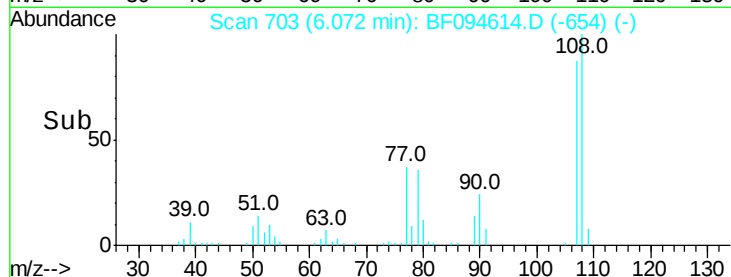


Abundance Ion 107.00 (106.70 to 107.70): E

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



#19

n-Nitroso-di-n-propylamine

Concen: 13.49 ng

RT: 6.40 min Scan# 759

Delta R.T. 0.15 min

Lab File: BF094614.D

Acq: 25 Apr 2017 19:20

Tgt Ion: 70 Resp: 77550

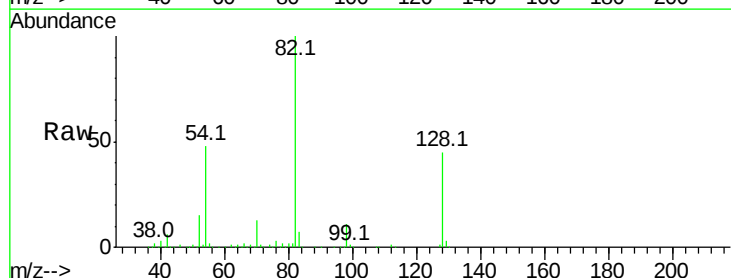
Ion Ratio Lower Upper

70 100

42 44.0 47.2 70.8#

101 0.0 7.2 10.8#

130 2.5 15.9 23.9#

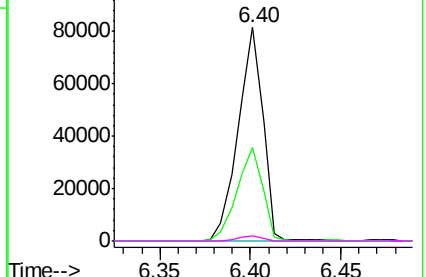
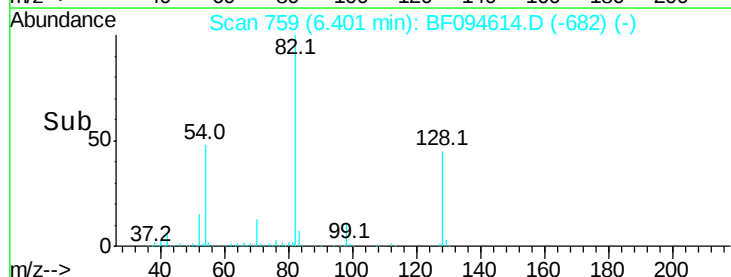


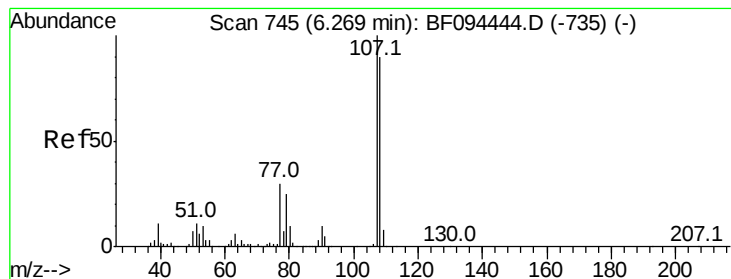
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#20

3+4-Methylphenols

Concen: 10.30 ng

RT: 6.26 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF094614.D

Acq: 25 Apr 2017 19:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:107 Resp: 92295

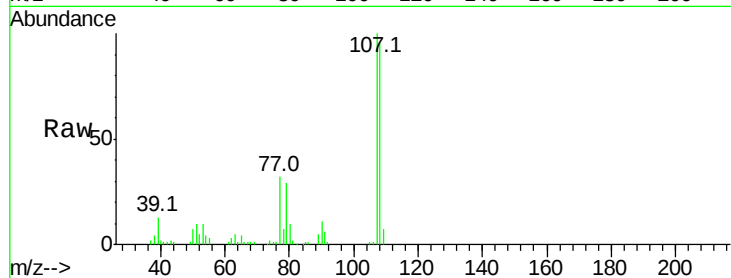
Ion Ratio Lower Upper

107 100

108 95.2 71.0 111.0

77 32.3 90.5 130.5#

79 29.4 8.4 48.4

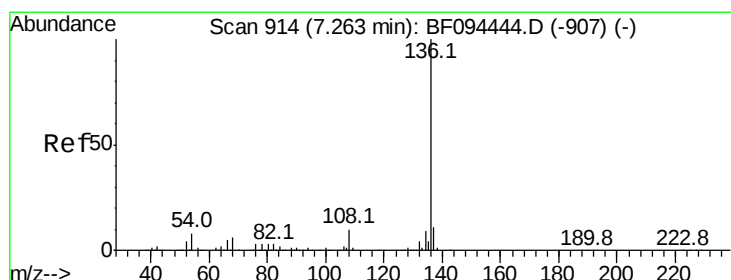
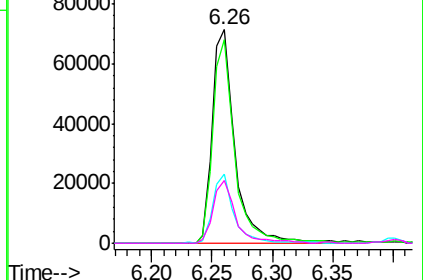
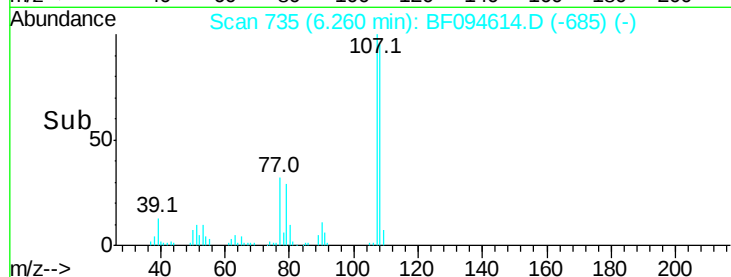


Abundance Ion 107.00 (106.70 to 107.70): E

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: 7.24 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF094614.D

Acq: 25 Apr 2017 19:20

Tgt Ion:136 Resp: 484574

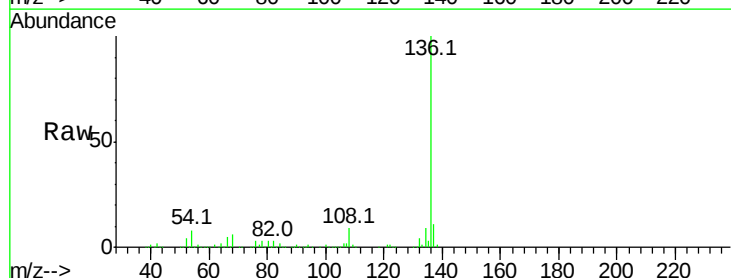
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.7 4.9 7.3#

68 5.6 4.1 6.1

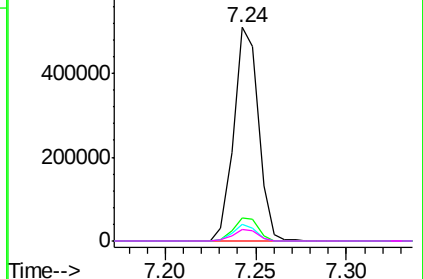
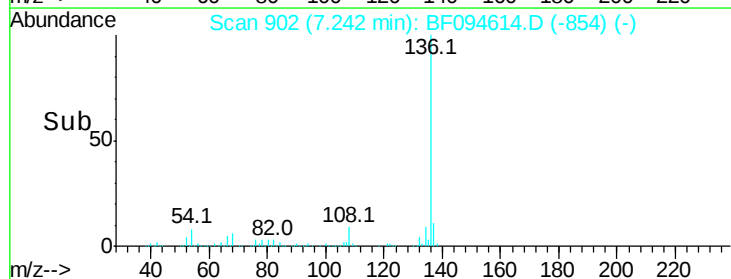


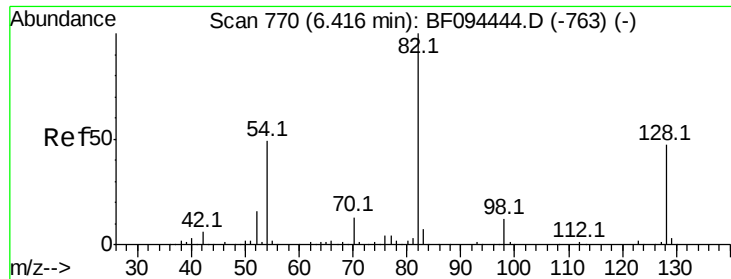
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

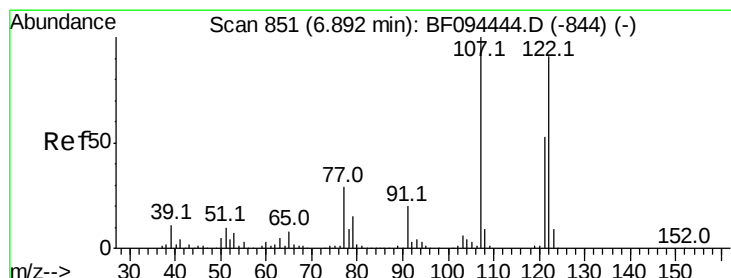
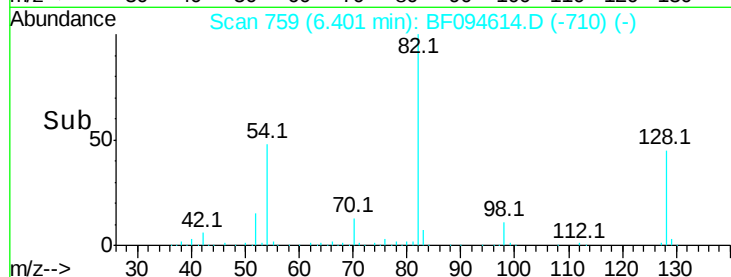
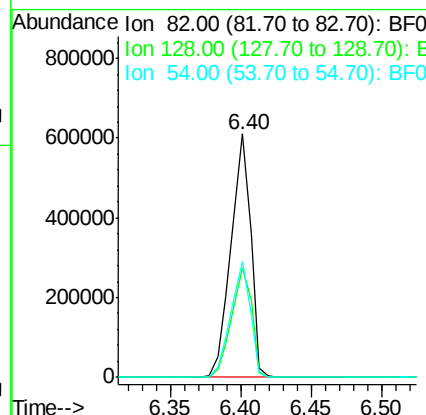
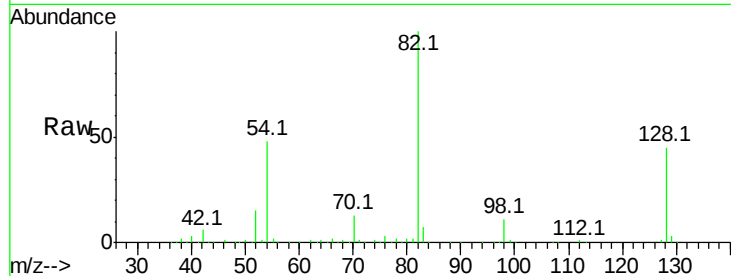




#23  
 Nitrobenzene-d5  
 Concen: 76.26 ng  
 RT: 6.40 min Scan# 759  
 Delta R.T. -0.01 min  
 Lab File: BF094614.D  
 Acq: 25 Apr 2017 19:20

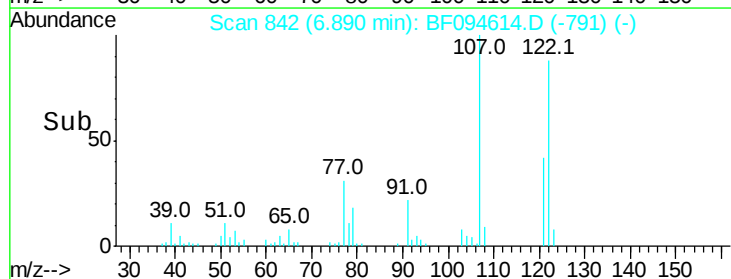
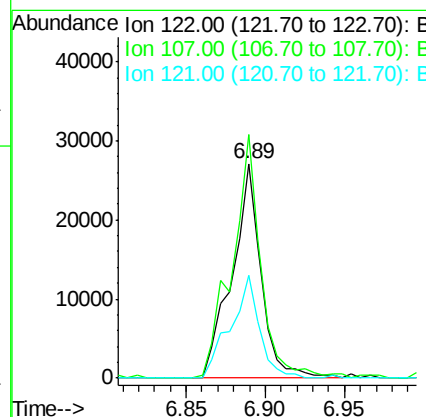
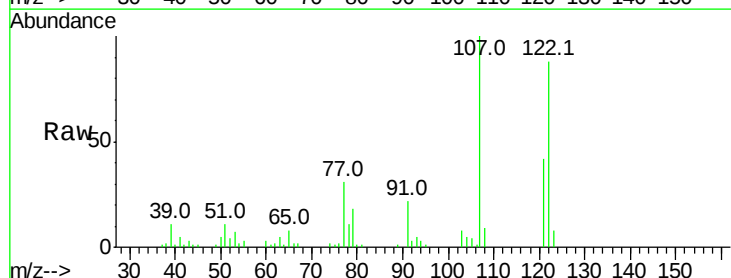
Instrument :  
 BNA\_F  
 ClientSampleId :

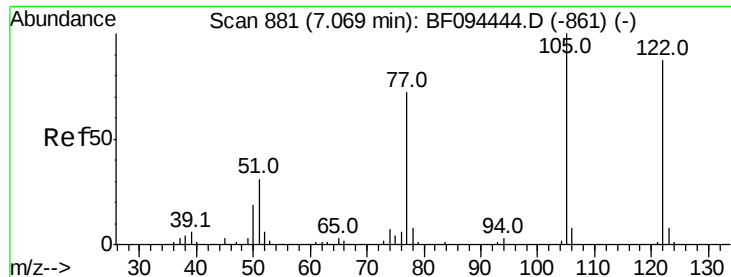
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.1  | 34.0  | 51.0  |
| 54      | 47.6  | 42.2  | 63.2  |



#27  
 2,4-Dimethylphenol  
 Concen: 4.83 ng  
 RT: 6.89 min Scan# 842  
 Delta R.T. -0.00 min  
 Lab File: BF094614.D  
 Acq: 25 Apr 2017 19:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 113.4 | 89.2  | 133.8 |
| 121     | 48.0  | 45.2  | 67.8  |





#32

Benzoic acid

Concen: 15.28 ng

RT: 7.04 min Scan# 867

Delta R.T. -0.03 min

Lab File: BF094614.D

Acq: 25 Apr 2017 19:20

Instrument :

BNA\_F

ClientSampleId :

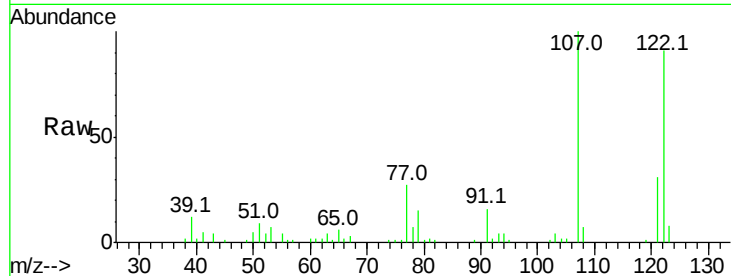
Tot Ion:122 Resp: 58264

Ion Ratio Lower Upper

122 100

105 2.0 103.3 143.3#

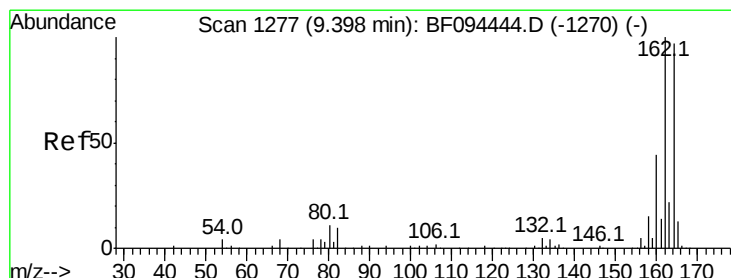
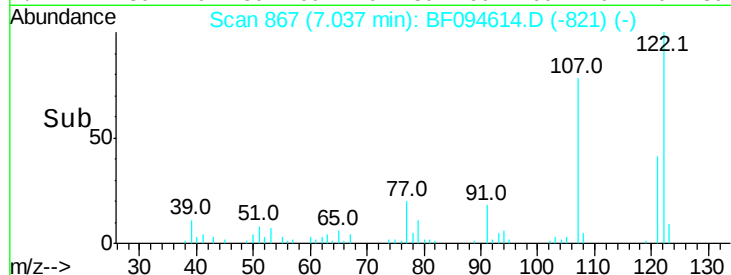
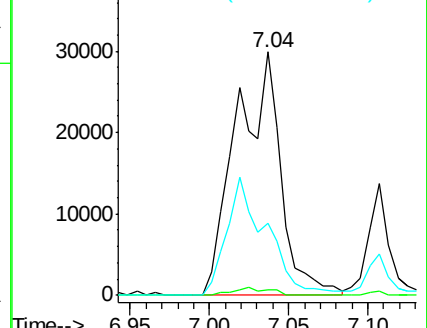
77 29.8 73.7 113.7#



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: 9.38 min Scan# 1265

Delta R.T. -0.02 min

Lab File: BF094614.D

Acq: 25 Apr 2017 19:20

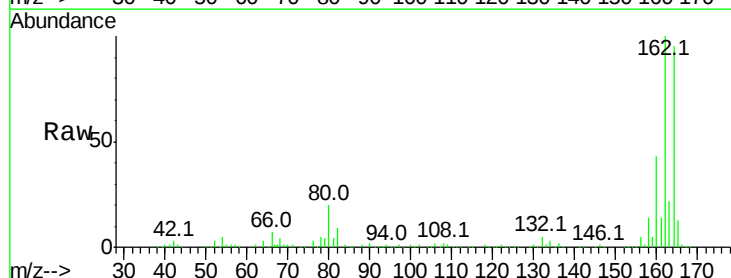
Tgt Ion:164 Resp: 205451

Ion Ratio Lower Upper

164 100

162 104.7 82.6 123.8

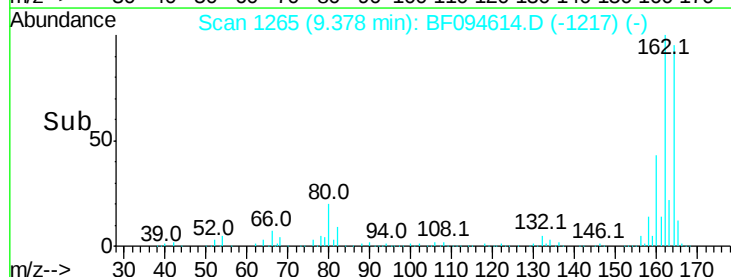
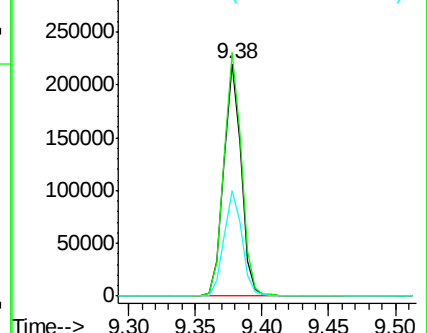
160 45.2 36.2 54.2

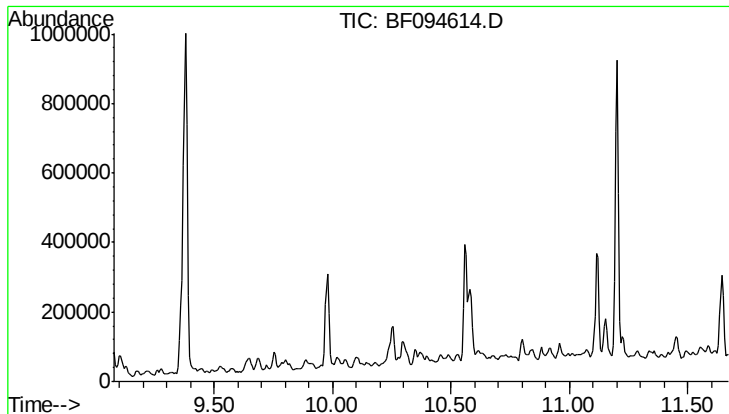


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

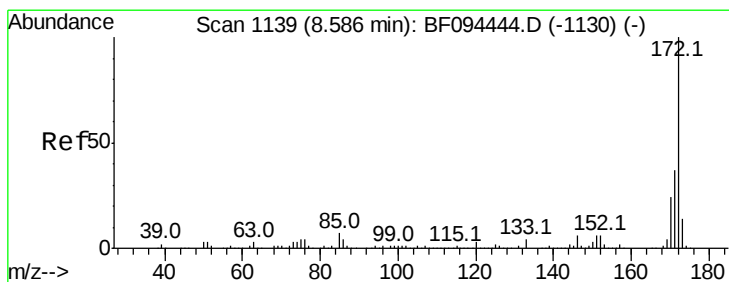
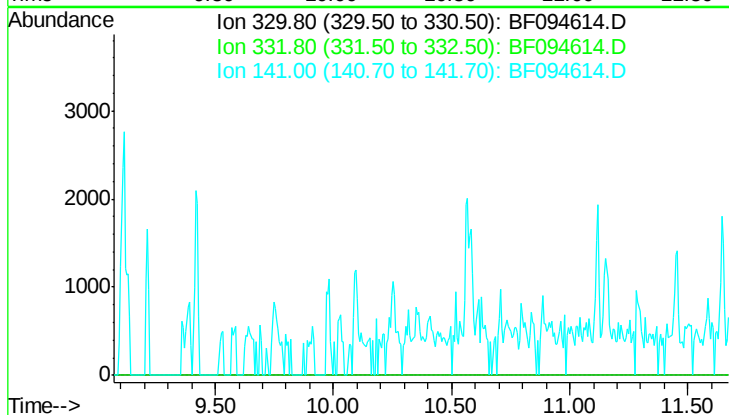




#41  
 2,4,6-Tribromophenol  
 Concen: 0.00 ng  
 Expected RT: 10.37 min  
 Lab File: BF094614.D  
 Acq: 25 Apr 2017 19:20

Instrument :  
 BNA\_F  
 ClientSampleId :

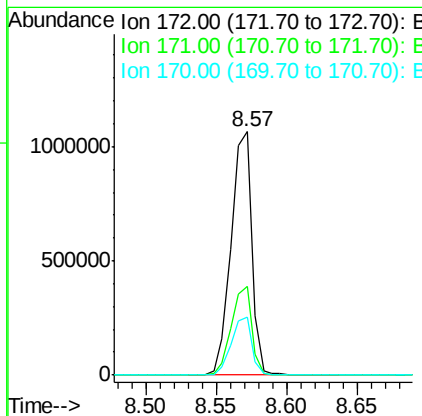
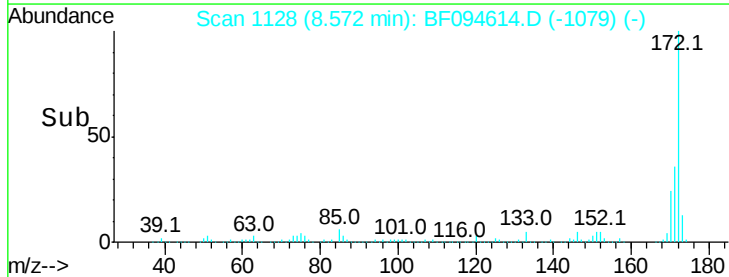
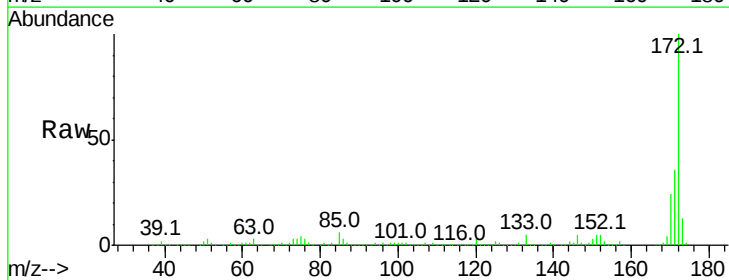
Tot Ion: 330  
 Sig Exp Ratio  
 330 100  
 332 95.8  
 141 39.3

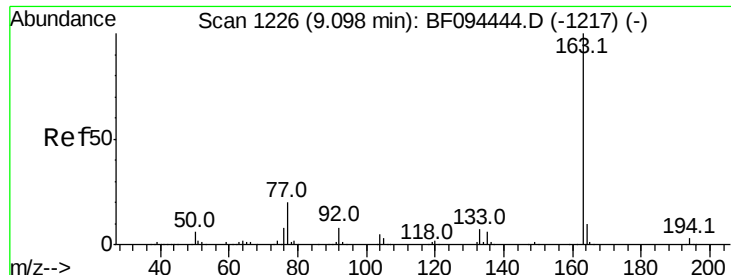


#44  
 2-Fluorobiphenyl  
 Concen: 78.34 ng  
 RT: 8.57 min Scan# 1128  
 Delta R.T. -0.01 min  
 Lab File: BF094614.D  
 Acq: 25 Apr 2017 19:20

Tgt Ion: 172 Resp: 1093883  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.3  | 29.6  | 44.4  |
| 170 | 23.7  | 19.8  | 29.8  |

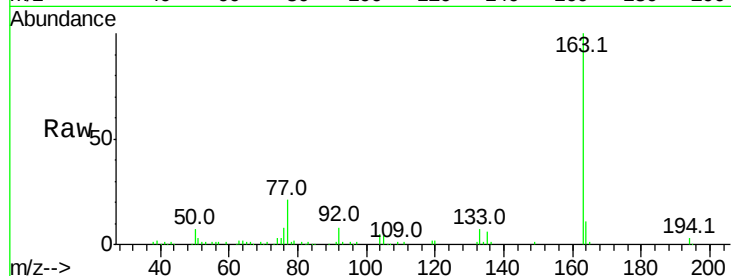




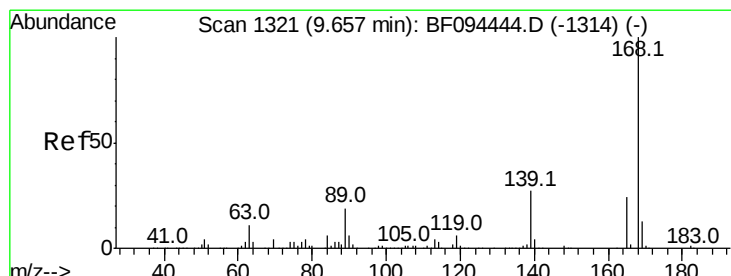
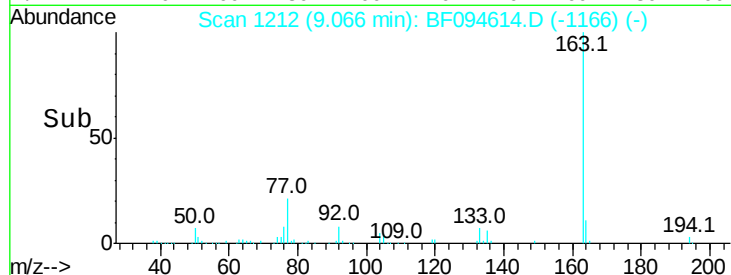
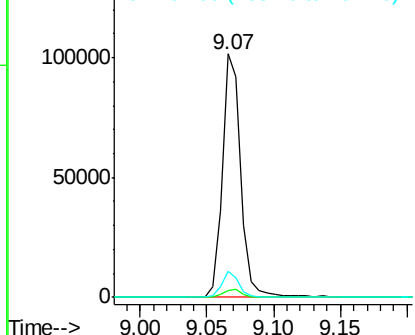
#49  
Dimethylphthalate  
Concen: 6.49 ng  
RT: 9.07 min Scan# 1212  
Delta R.T. -0.03 min  
Lab File: BF094614.D  
Acq: 25 Apr 2017 19:20

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:163 Resp: 99401  
Ion Ratio Lower Upper  
163 100  
194 2.9 2.6 4.0  
164 10.6 8.4 12.6

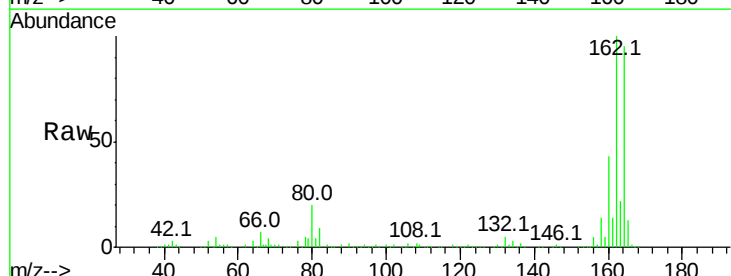


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

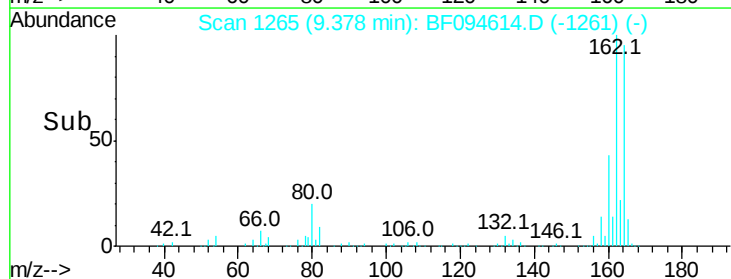
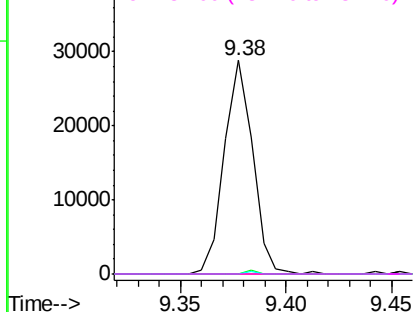


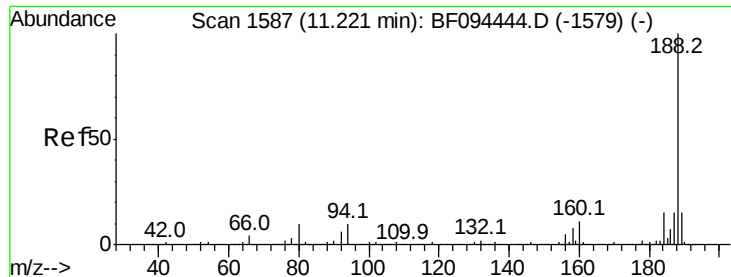
#56  
2,4-Dinitrotoluene  
Concen: 6.40 ng  
RT: 9.38 min Scan# 1265  
Delta R.T. -0.28 min  
Lab File: BF094614.D  
Acq: 25 Apr 2017 19:20

Tgt Ion:165 Resp: 27001  
Ion Ratio Lower Upper  
165 100  
63 0.0 25.4 38.0#  
89 0.0 46.4 69.6#  
182 0.0 1.8 2.6#



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

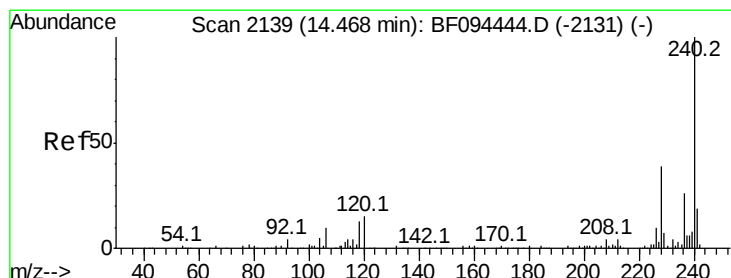
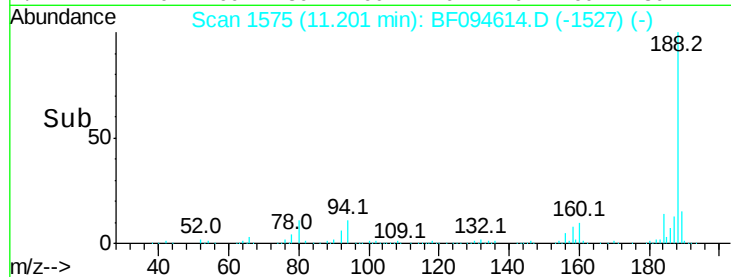
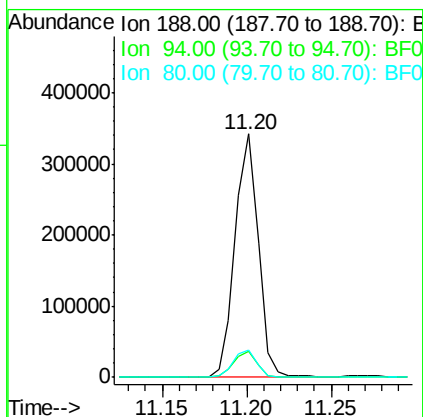
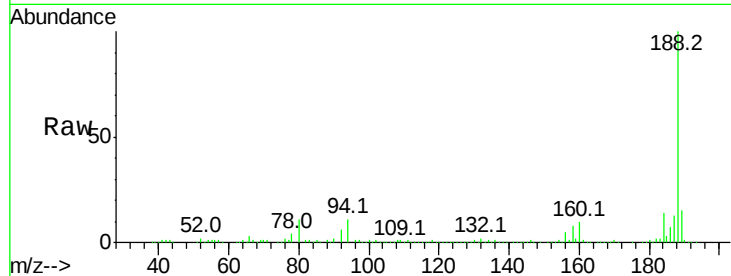




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.20 min Scan# 1575  
 Delta R.T. -0.02 min  
 Lab File: BF094614.D  
 Acq: 25 Apr 2017 19:20

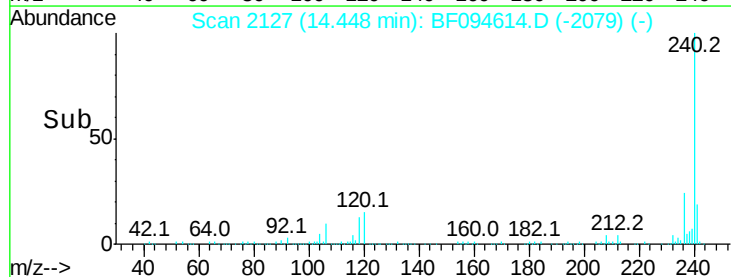
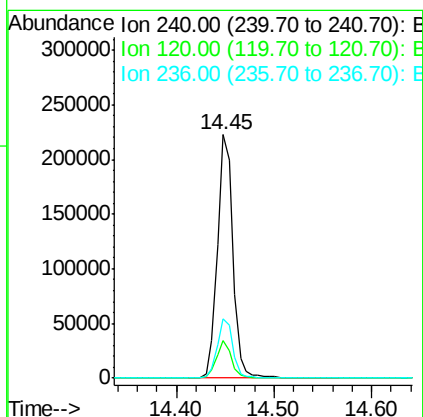
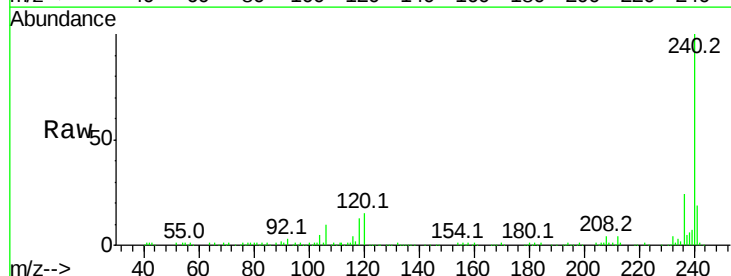
Instrument :  
 BNA\_F  
 ClientSampleId :

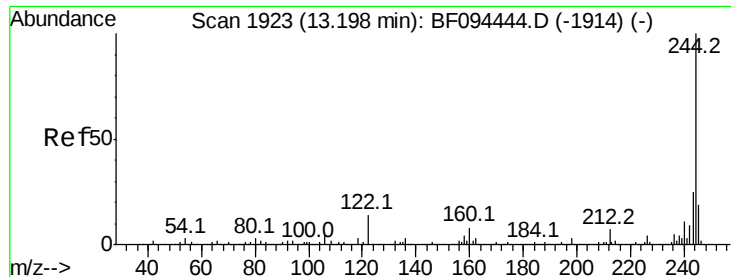
Tot Ion:188 Resp: 327875  
 Ion Ratio Lower Upper  
 188 100  
 94 10.6 9.4 14.2  
 80 11.1 10.2 15.2



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.45 min Scan# 2127  
 Delta R.T. -0.02 min  
 Lab File: BF094614.D  
 Acq: 25 Apr 2017 19:20

Tgt Ion:240 Resp: 246911  
 Ion Ratio Lower Upper  
 240 100  
 120 15.5 5.8 8.8#  
 236 24.2 20.5 30.7

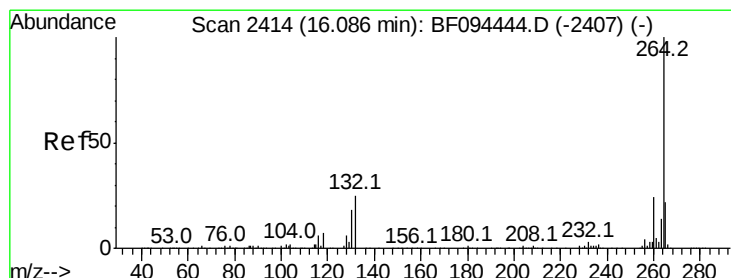
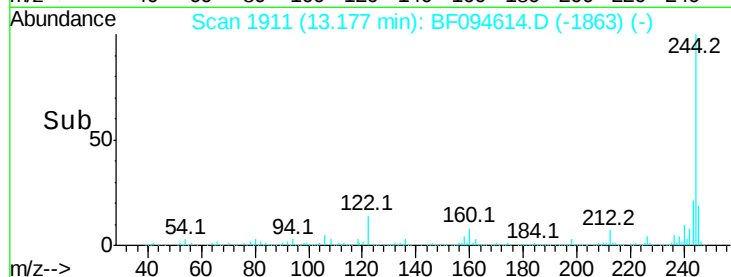
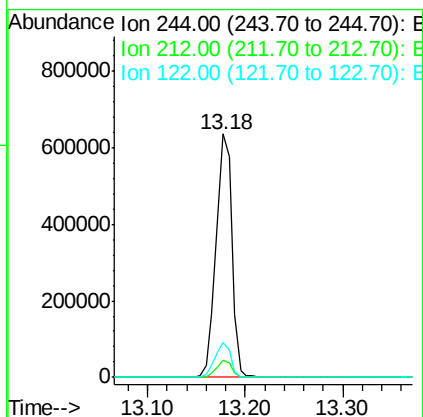
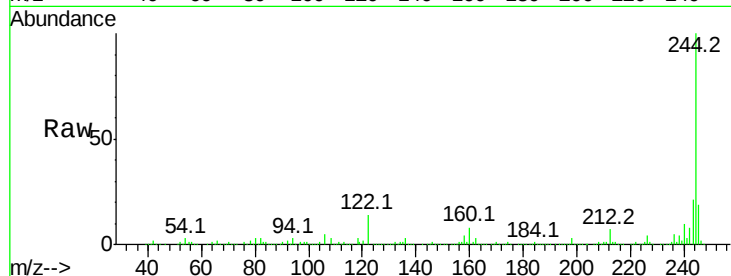




#78  
 Terphenyl-d14  
 Concen: 78.24 ng  
 RT: 13.18 min Scan# 1911  
 Delta R.T. -0.02 min  
 Lab File: BF094614.D  
 Acq: 25 Apr 2017 19:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 722700  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 6.0 9.0  
 122 14.5 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.08 min Scan# 2404  
 Delta R.T. -0.01 min  
 Lab File: BF094614.D  
 Acq: 25 Apr 2017 19:20

Tgt Ion:264 Resp: 228212  
 Ion Ratio Lower Upper  
 264 100  
 260 22.7 19.5 29.3  
 265 21.4 17.2 25.8

