

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090917\  
 Data File : BF098388.D  
 Acq On : 9 Sep 2017 16:20  
 Operator : SJ/JU  
 Sample : I5178-06  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 11 04:13:01 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 17:28:20 2017  
 Response via : Initial Calibration

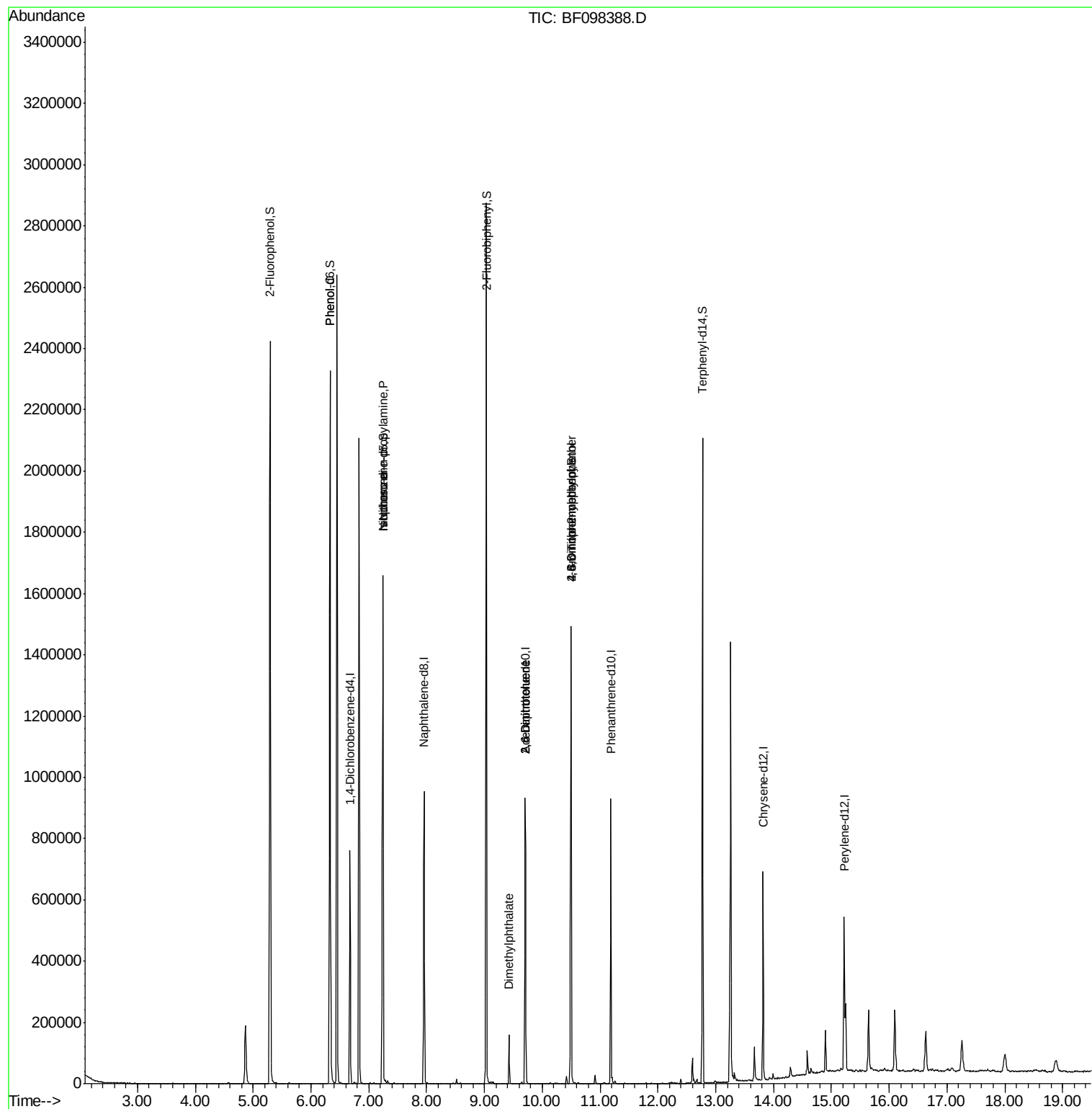
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.67  | 152  | 104191   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 7.96  | 136  | 408977   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.70  | 164  | 179296   | 20.00  | ng    | -0.04    |
| 63) Phenanthrene-d10           | 11.19 | 188  | 306057   | 20.00  | ng    | -0.04    |
| 75) Chrysene-d12               | 13.82 | 240  | 221043   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12               | 15.22 | 264  | 217511   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 760489   | 111.02 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.33  | 99   | 1036610  | 111.38 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.25  | 82   | 636084   | 84.49  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.50 | 330  | 178461   | 114.72 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl           | 9.03  | 172  | 940084   | 77.03  | ng    | -0.04    |
| 78) Terphenyl-d14              | 12.77 | 244  | 637957   | 60.19  | ng    | -0.04    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.34  | 94   | 73590    | 6.761  | ng    | 93       |
| 19) n-Nitroso-di-n-propylamine | 7.25  | 70   | 81983    | 12.868 | ng    | # 70     |
| 25) Isophorone                 | 7.25  | 82   | 632123   | 40.380 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.43  | 163  | 56104    | 4.281  | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.70  | 165  | 22930    | 8.765  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.70  | 165  | 22930    | 6.984  | ng    | # 33     |
| 64) 4,6-Dinitro-2-methylphenol | 10.50 | 198  | 249      | 8.463  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.50 | 248  | 11400    | 3.587  | ng    | # 1      |

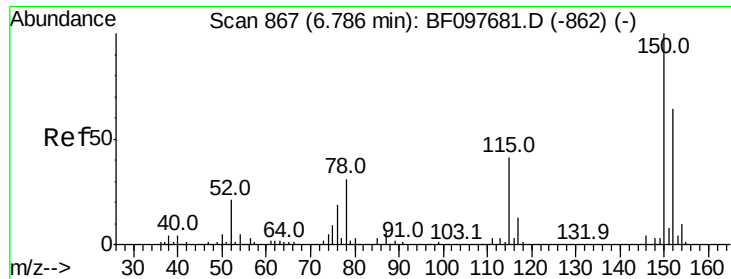
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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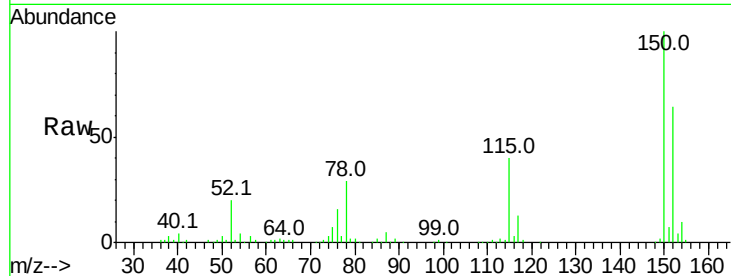


#1

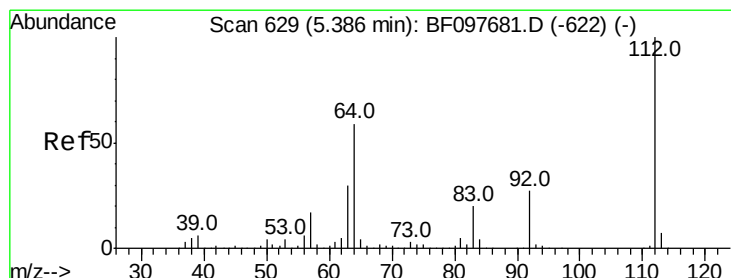
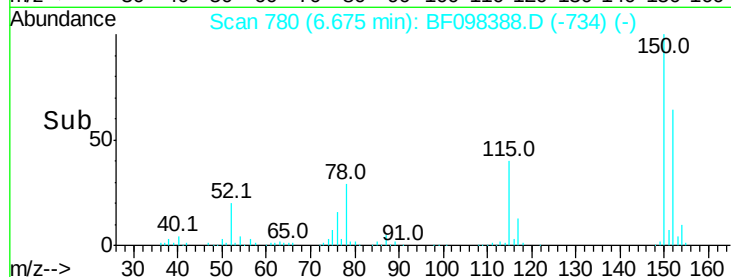
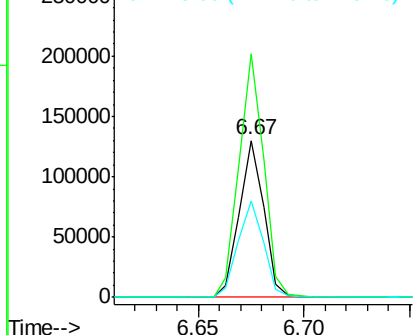
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.67 min Scan# 780  
 Delta R.T. -0.03 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 104191  
 Ion Ratio Lower Upper  
 152 100  
 150 155.2 126.2 189.2  
 115 61.4 52.2 78.2



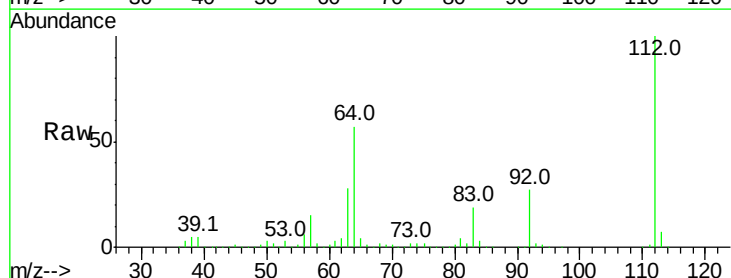
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



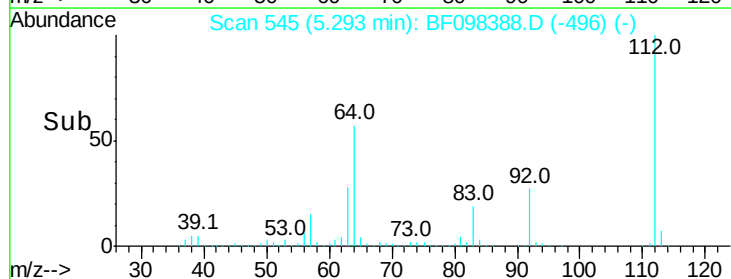
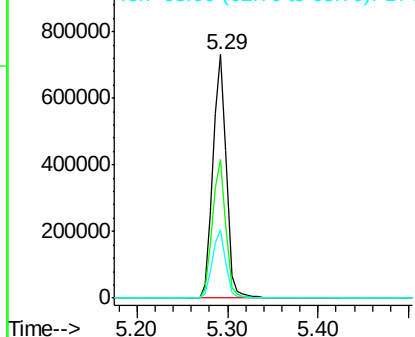
#5

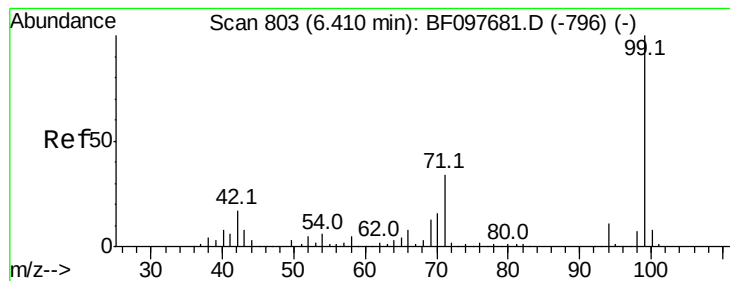
2-Fluorophenol  
 Concen: 111.023 ng  
 RT: 5.29 min Scan# 545  
 Delta R.T. -0.01 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

Tgt Ion:112 Resp: 760489  
 Ion Ratio Lower Upper  
 112 100  
 64 57.0 46.0 69.0  
 63 28.3 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: 111.380 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF098388.D

Acq: 9 Sep 2017 16:20

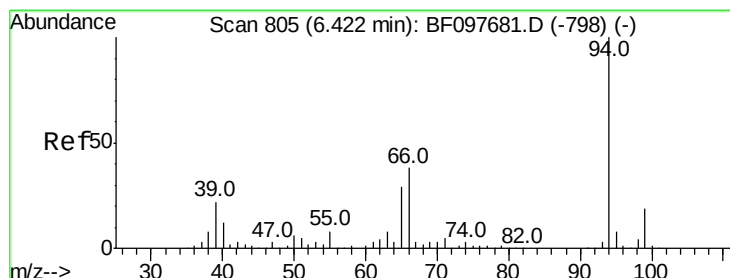
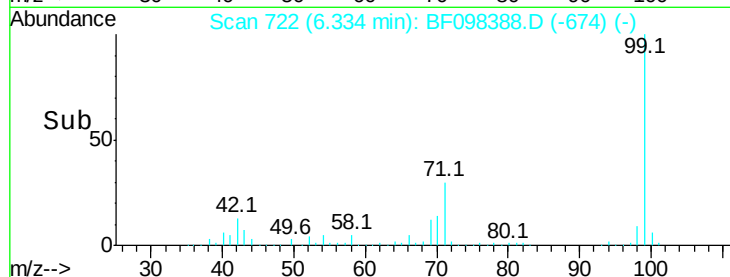
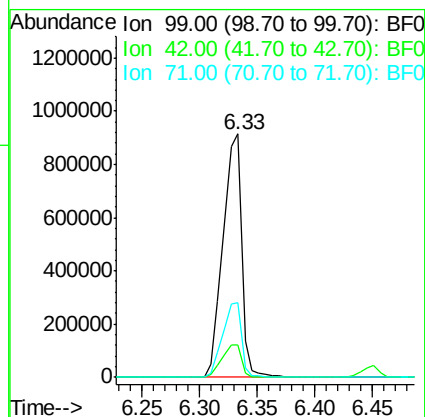
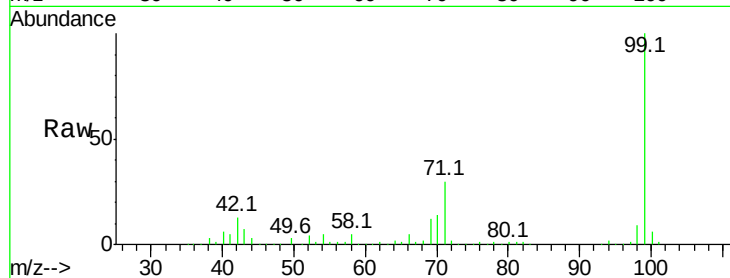
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1036610

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 13.3  | 13.5  | 20.3# |
| 71  | 30.4  | 24.5  | 36.7  |



#10

Phenol

Concen: 6.761 ng

RT: 6.34 min Scan# 723

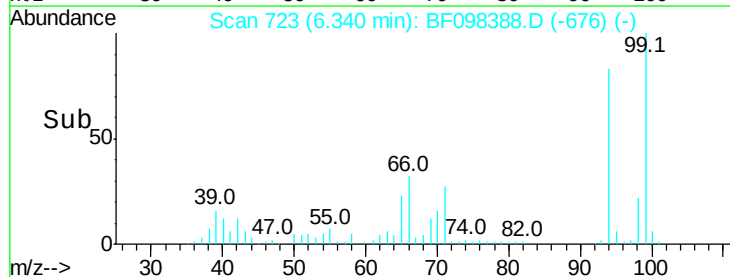
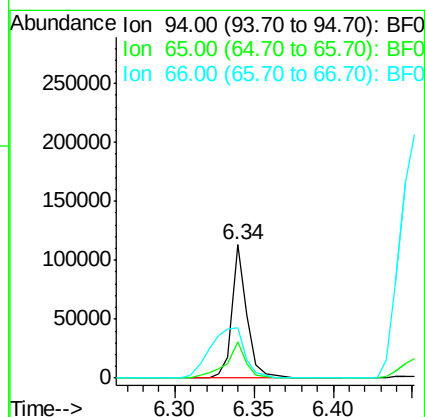
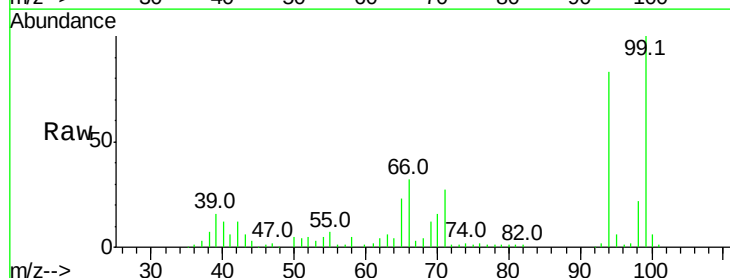
Delta R.T. -0.02 min

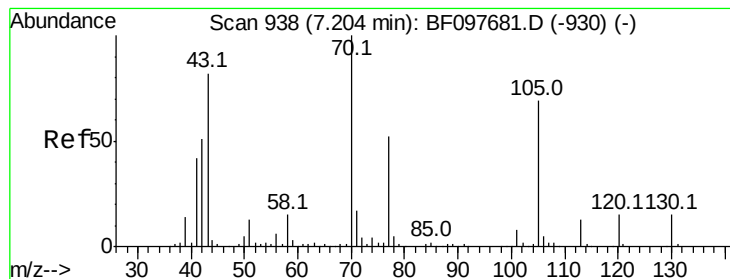
Lab File: BF098388.D

Acq: 9 Sep 2017 16:20

Tgt Ion: 94 Resp: 73590

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 27.3  | 9.9   | 49.9  |
| 66  | 38.0  | 23.1  | 63.1  |





#19

n-Nitroso-di-n-propylamine

Concen: 12.868 ng

RT: 7.25 min Scan# 877

Delta R.T. 0.12 min

Lab File: BF098388.D

Acq: 9 Sep 2017 16:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 81983

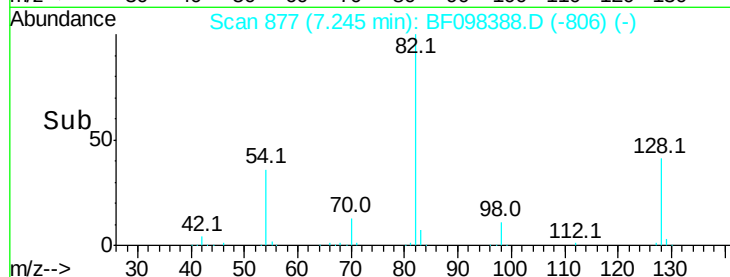
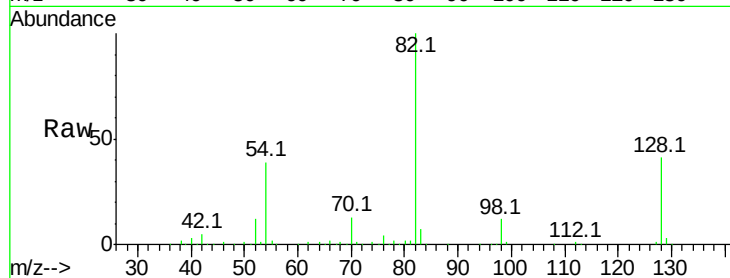
Ion Ratio Lower Upper

70 100

42 38.1 47.2 70.8#

101 0.0 7.2 10.8#

130 1.7 15.9 23.9#

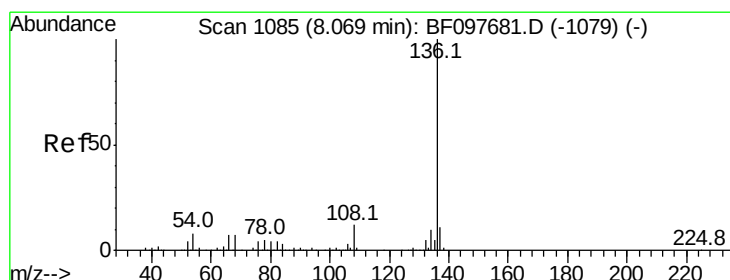
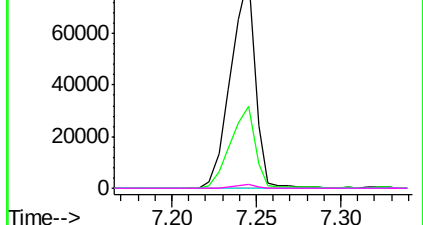


Abundance Ion 70.00 (69.70 to 70.70): BF0

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.96 min Scan# 998

Delta R.T. -0.03 min

Lab File: BF098388.D

Acq: 9 Sep 2017 16:20

Tgt Ion:136 Resp: 408977

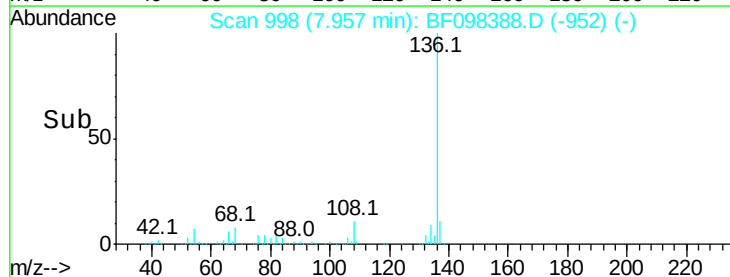
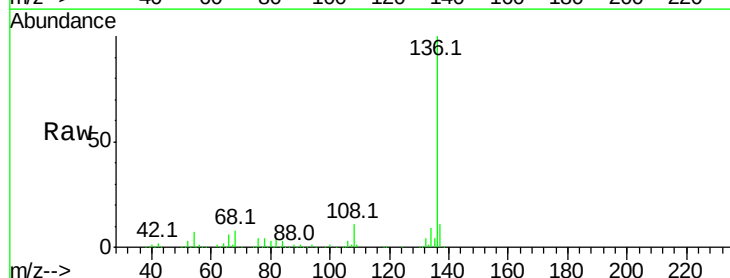
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.0 4.9 7.3

68 7.6 4.1 6.1#

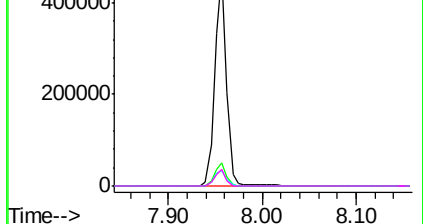


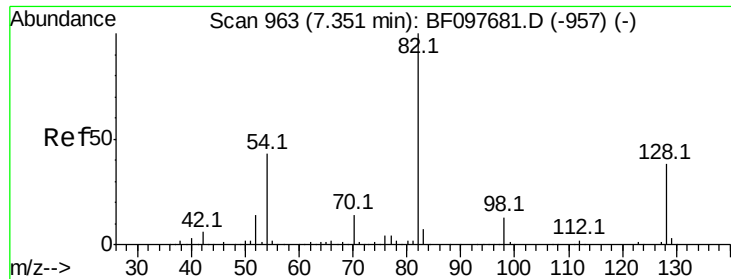
Abundance Ion 136.00 (135.70 to 136.70): E

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

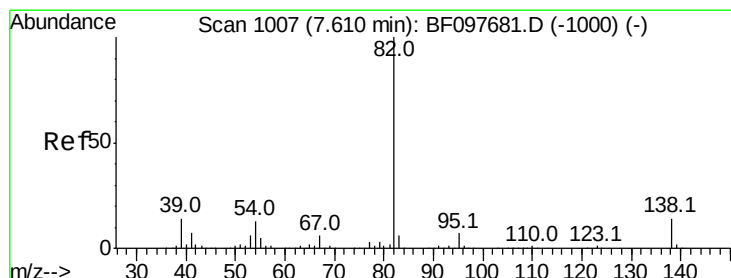
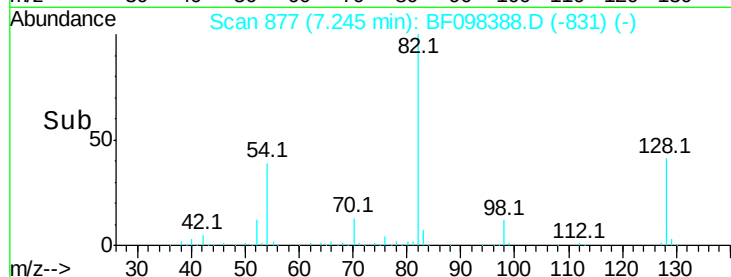
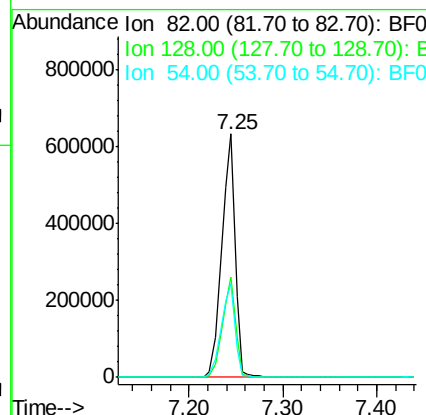
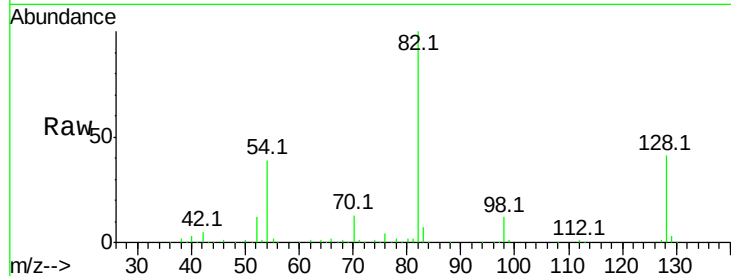




#23  
 Nitrobenzene-d5  
 Concen: 84.491 ng  
 RT: 7.25 min Scan# 877  
 Delta R.T. -0.03 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

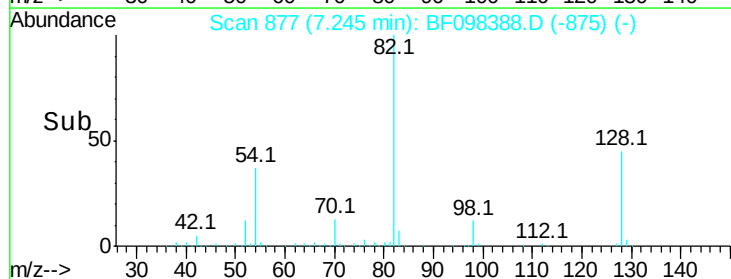
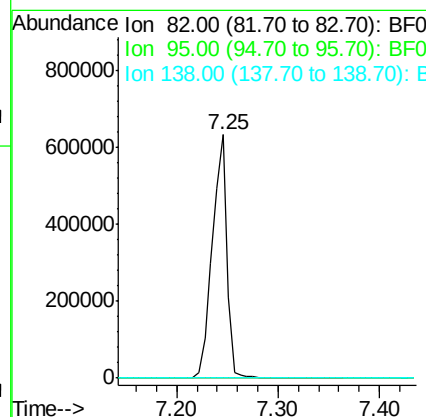
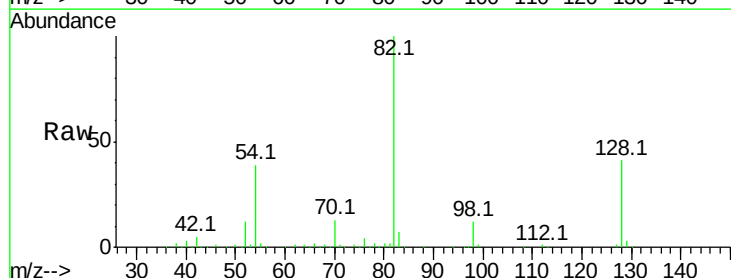
Instrument :  
 BNA\_F  
 ClientSampleId :

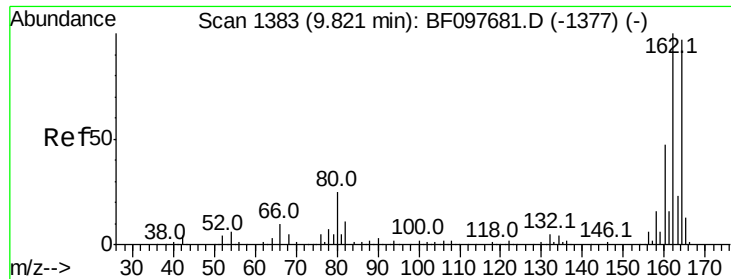
Tot Ion: 82 Resp: 636084  
 Ion Ratio Lower Upper  
 82 100  
 128 41.0 34.0 51.0  
 54 38.8 42.2 63.2#



#25  
 Isophorone  
 Concen: 40.380 ng  
 RT: 7.25 min Scan# 877  
 Delta R.T. -0.29 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

Tgt Ion: 82 Resp: 632123  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.3 7.9#  
 138 0.0 13.1 19.7#

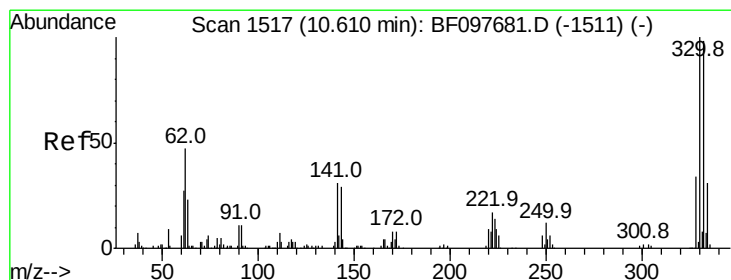
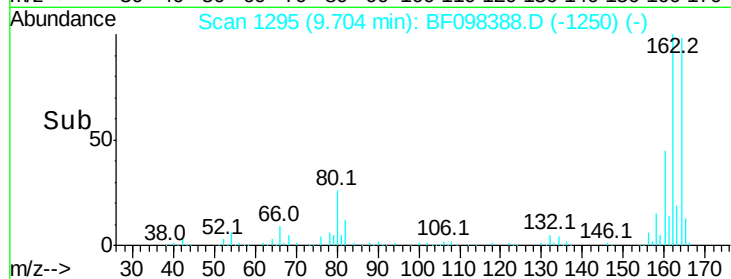
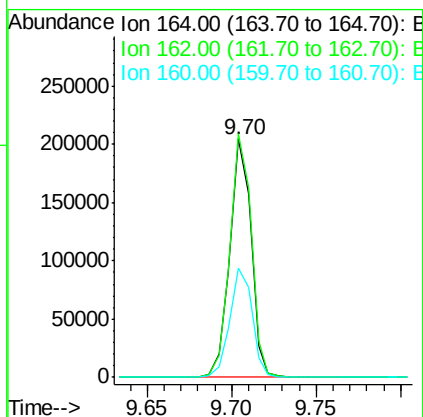
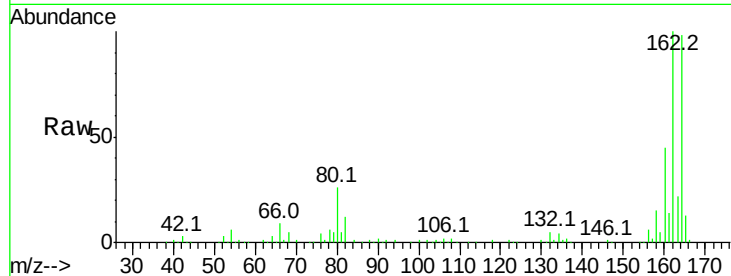




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.70 min Scan# 1295  
Delta R.T. -0.04 min  
Lab File: BF098388.D  
Acq: 9 Sep 2017 16:20

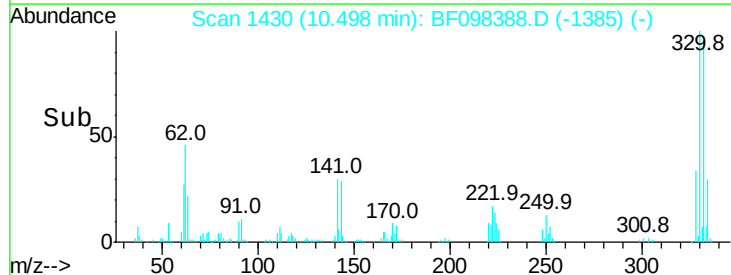
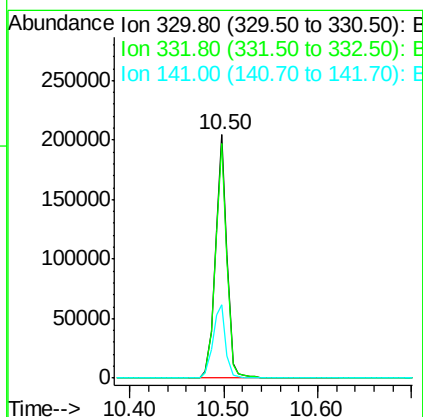
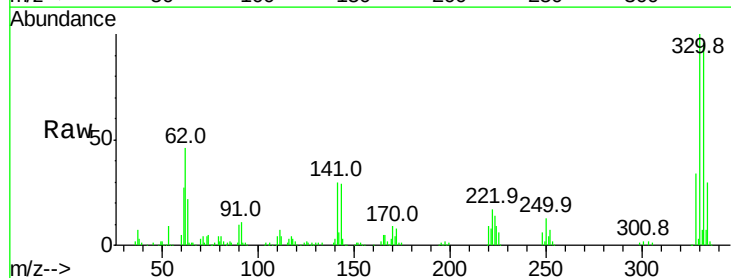
Instrument :  
BNA\_F  
ClientSampleId :

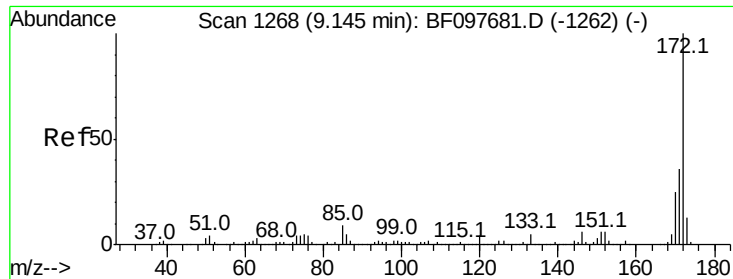
Tot Ion:164 Resp: 179296  
Ion Ratio Lower Upper  
164 100  
162 102.2 82.6 123.8  
160 45.8 36.2 54.2



#41  
2,4,6-Tribromophenol  
Concen: 114.715 ng  
RT: 10.50 min Scan# 1430  
Delta R.T. -0.04 min  
Lab File: BF098388.D  
Acq: 9 Sep 2017 16:20

Tgt Ion:330 Resp: 178461  
Ion Ratio Lower Upper  
330 100  
332 96.2 76.6 115.0  
141 33.2 31.4 47.2

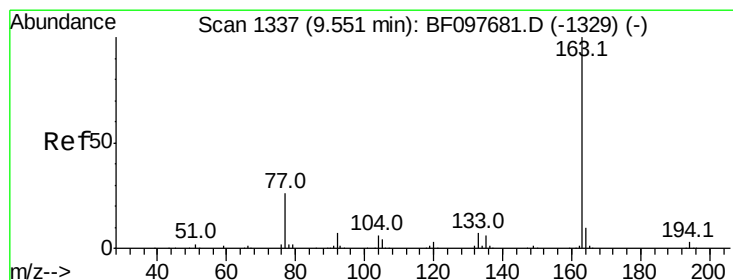
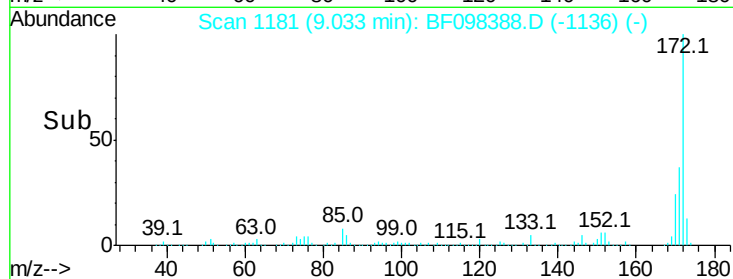
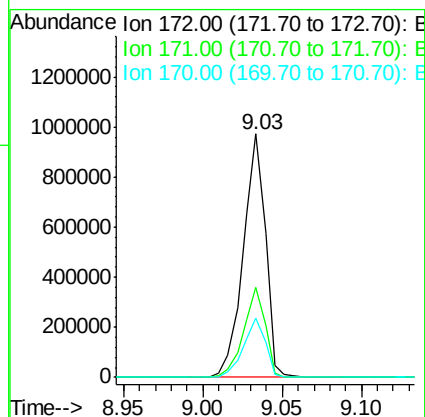
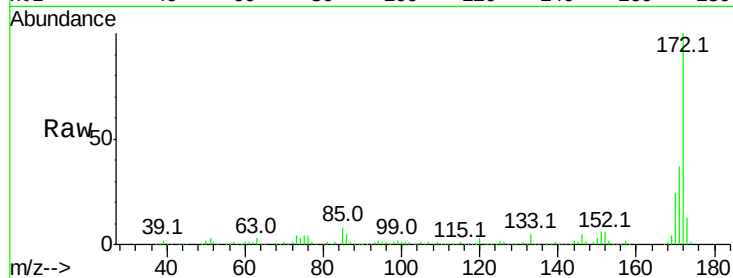




#44  
 2-Fluorobiphenyl  
 Concen: 77.033 ng  
 RT: 9.03 min Scan# 1181  
 Delta R.T. -0.04 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

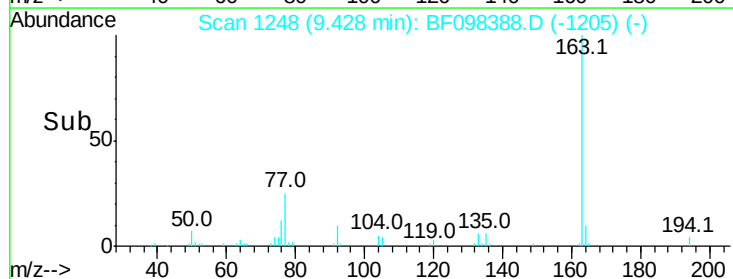
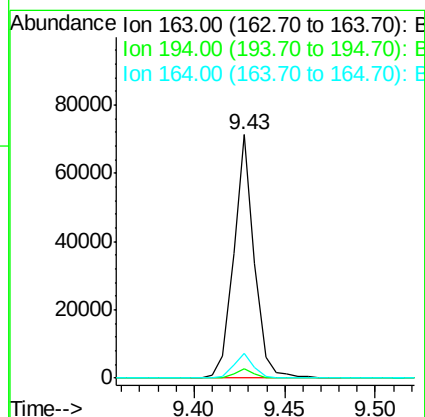
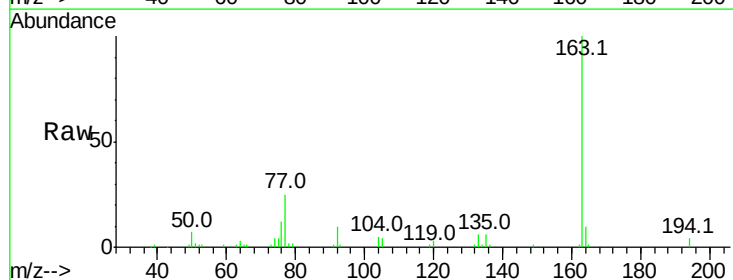
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 940084  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 29.6 44.4  
 170 24.3 19.8 29.8

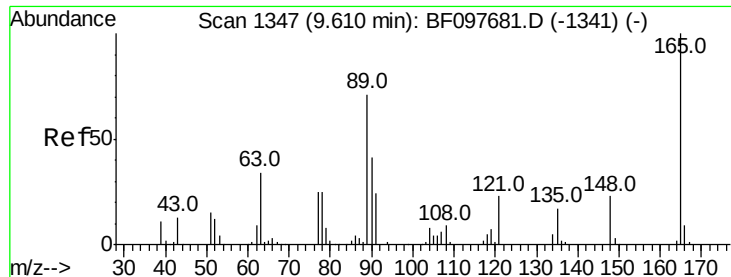


#49  
 Dimethylphthalate  
 Concen: 4.281 ng  
 RT: 9.43 min Scan# 1248  
 Delta R.T. -0.05 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

Tgt Ion:163 Resp: 56104  
 Ion Ratio Lower Upper  
 163 100  
 194 3.6 2.6 4.0  
 164 10.0 8.4 12.6



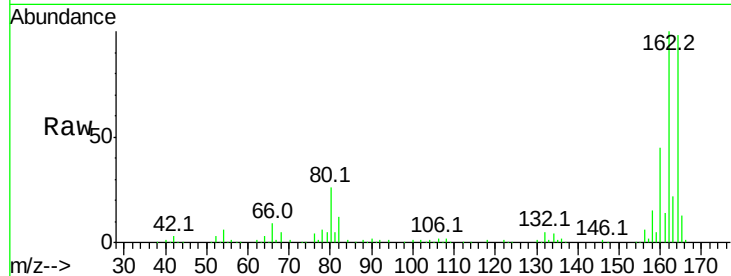




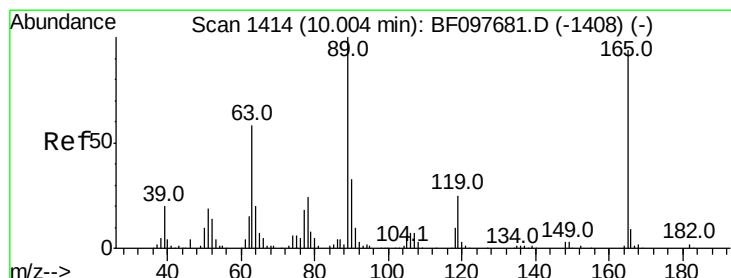
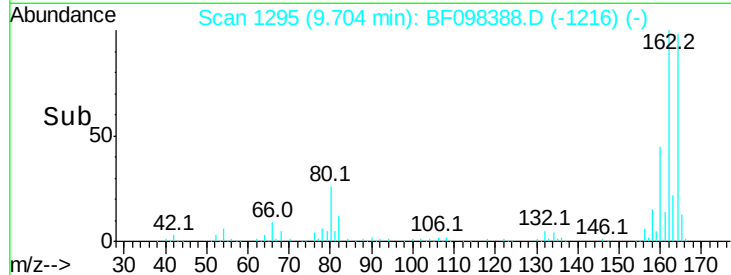
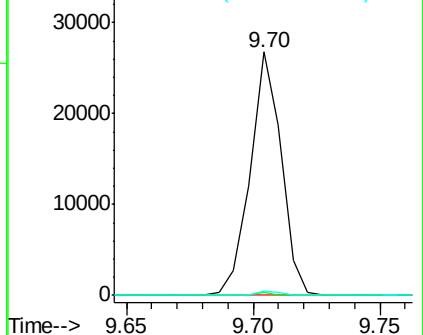
#50  
 2,6-Dinitrotoluene  
 Concen: 8.765 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. 0.16 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

Instrument :  
 BNA\_F  
 ClientSampleId :

|             |       |       |
|-------------|-------|-------|
| Tot Ion:165 | Resp: | 22930 |
| Ion Ratio   | Lower | Upper |
| 165 100     |       |       |
| 63 1.3      | 34.3  | 51.5# |
| 89 1.6      | 37.1  | 55.7# |

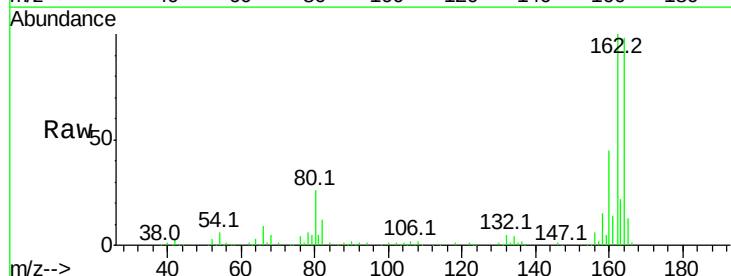


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

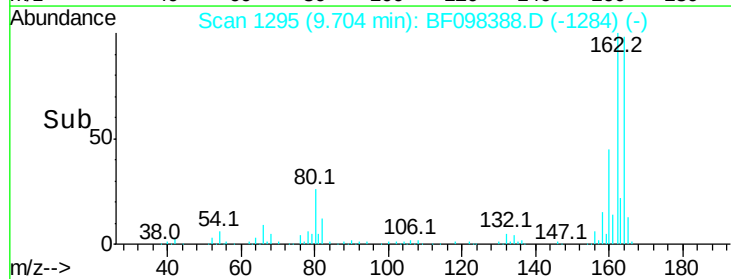
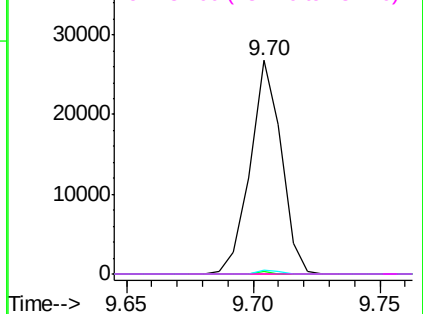


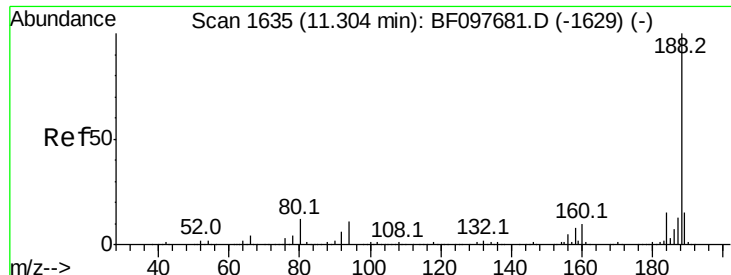
#56  
 2,4-Dinitrotoluene  
 Concen: 6.984 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.24 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:165 | Resp: | 22930 |
| Ion Ratio   | Lower | Upper |
| 165 100     |       |       |
| 63 1.3      | 25.4  | 38.0# |
| 89 1.6      | 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: 20.000 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.04 min

Lab File: BF098388.D

Acq: 9 Sep 2017 16:20

Instrument :

BNA\_F

ClientSampled :

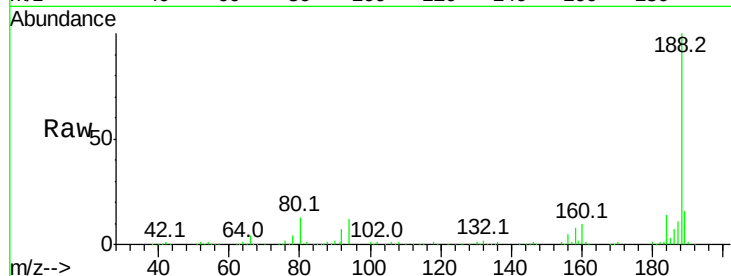
Tot Ion:188 Resp: 306057

Ion Ratio Lower Upper

188 100

94 12.3 9.4 14.2

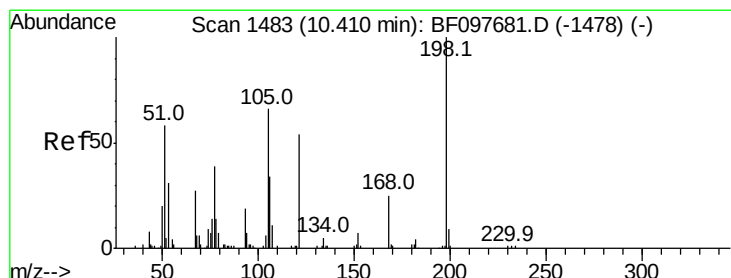
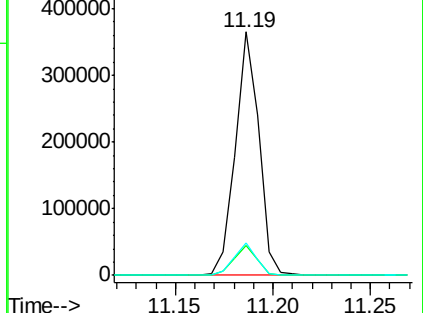
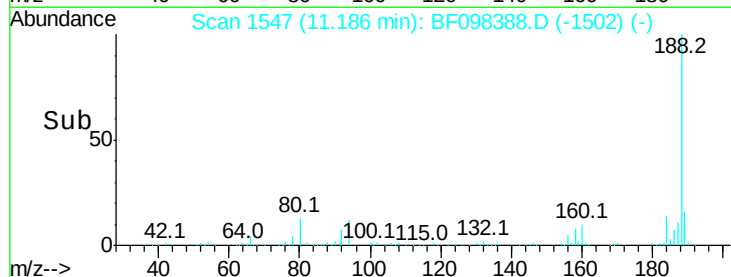
80 13.3 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#64

4,6-Dinitro-2-methylphenol

Concen: 8.463 ng

RT: 10.50 min Scan# 1430

Delta R.T. 0.15 min

Lab File: BF098388.D

Acq: 9 Sep 2017 16:20

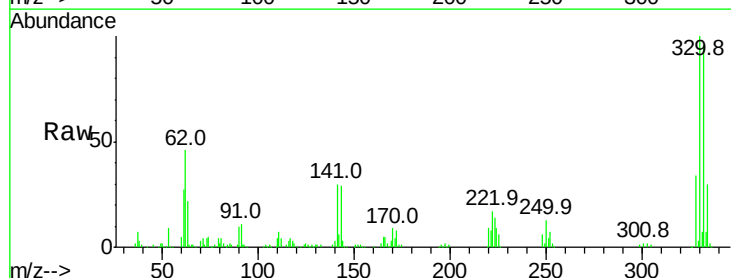
Tgt Ion:198 Resp: 249

Ion Ratio Lower Upper

198 100

51 168.5 53.2 93.2#

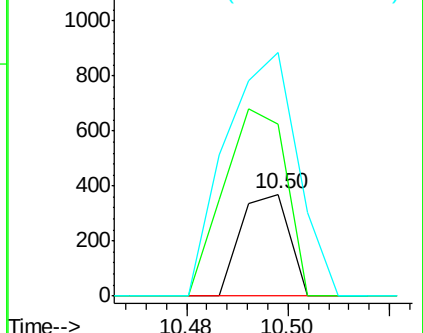
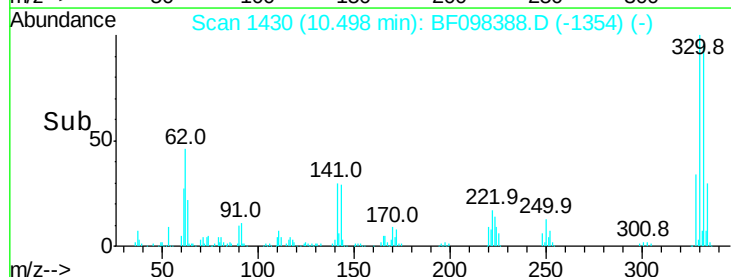
105 238.5 45.8 85.8#

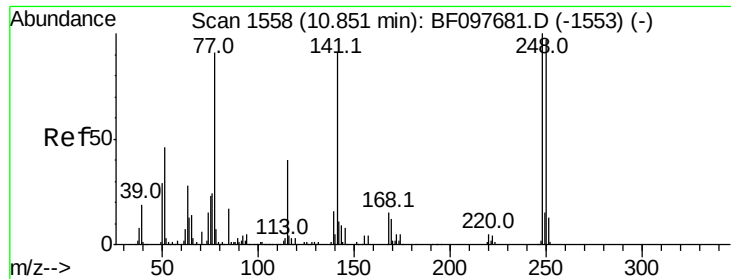


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

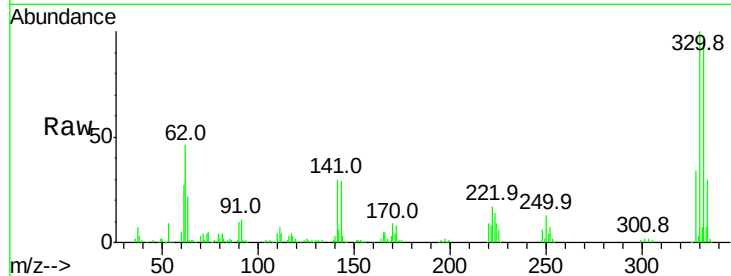




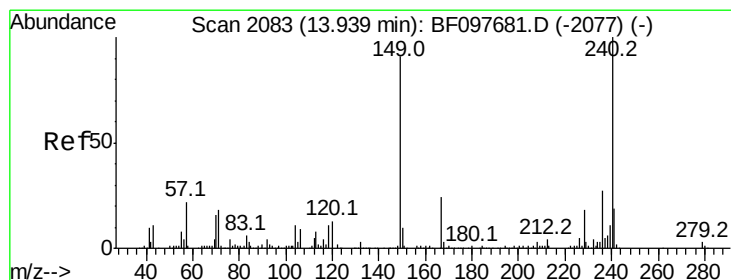
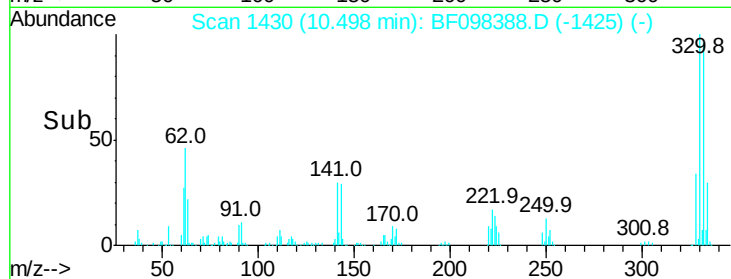
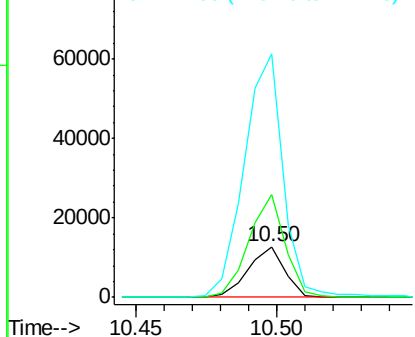
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.587 ng  
 RT: 10.50 min Scan# 1430  
 Delta R.T. -0.27 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 11400  
 Ion Ratio Lower Upper  
 248 100  
 250 200.9 76.8 115.2#  
 141 478.5 68.6 103.0#

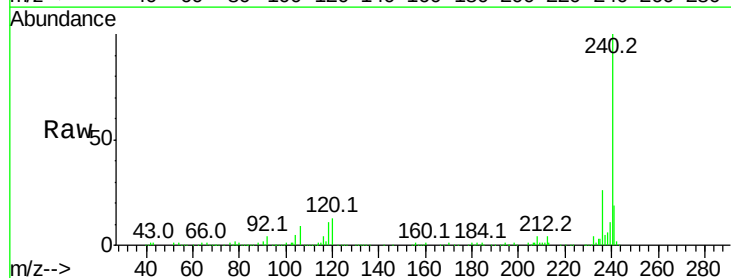


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

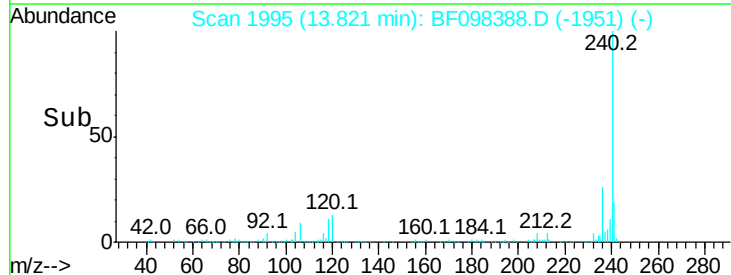
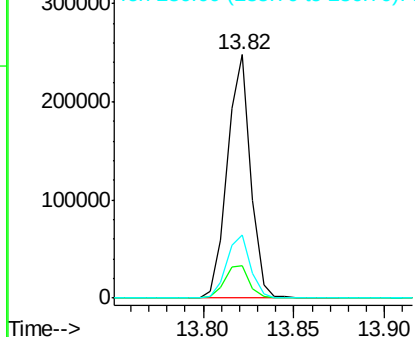


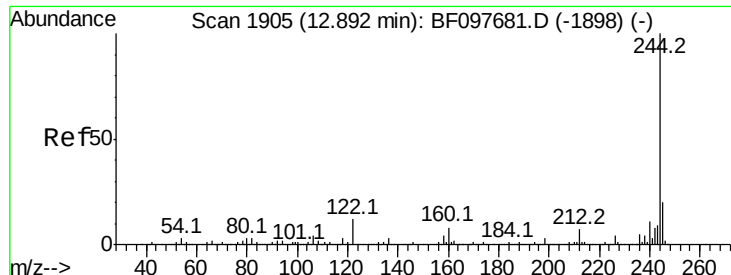
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.82 min Scan# 1995  
 Delta R.T. -0.04 min  
 Lab File: BF098388.D  
 Acq: 9 Sep 2017 16:20

Tgt Ion:240 Resp: 221043  
 Ion Ratio Lower Upper  
 240 100  
 120 13.2 5.8 8.8#  
 236 25.9 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 60.185 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.04 min

Lab File: BF098388.D

Acq: 9 Sep 2017 16:20

Instrument :

BNA\_F

ClientSampled :

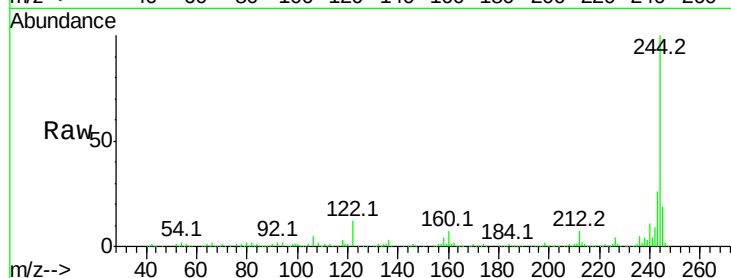
Tot Ion:244 Resp: 637957

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

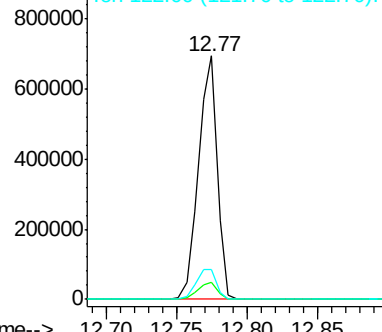
122 12.2 10.3 15.5



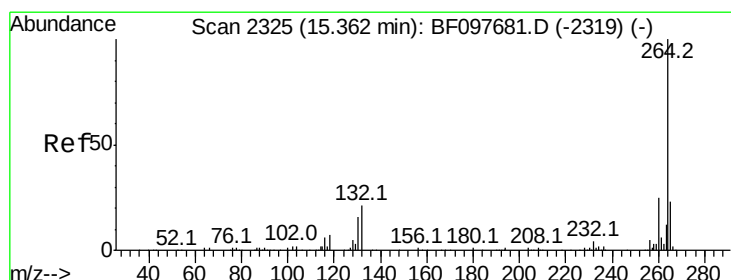
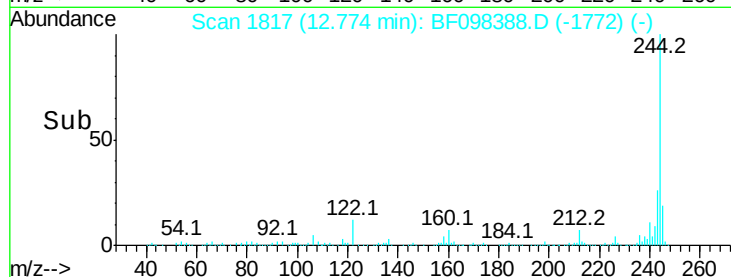
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.22 min Scan# 2233

Delta R.T. -0.04 min

Lab File: BF098388.D

Acq: 9 Sep 2017 16:20

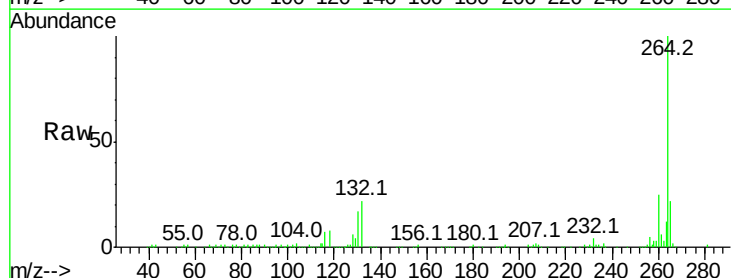
Tgt Ion:264 Resp: 217511

Ion Ratio Lower Upper

264 100

260 25.1 19.5 29.3

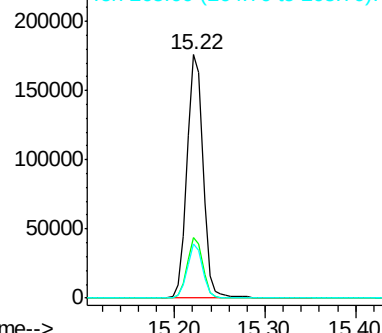
265 22.0 17.2 25.8



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



Time-->

