

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091217\  
 Data File : BF098455.D  
 Acq On : 12 Sep 2017 17:31  
 Operator : SJ/JU  
 Sample : PB101225BL  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB102265BL

Quant Time: Sep 13 00:57:35 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 02:14:50 2017  
 Response via : Initial Calibration

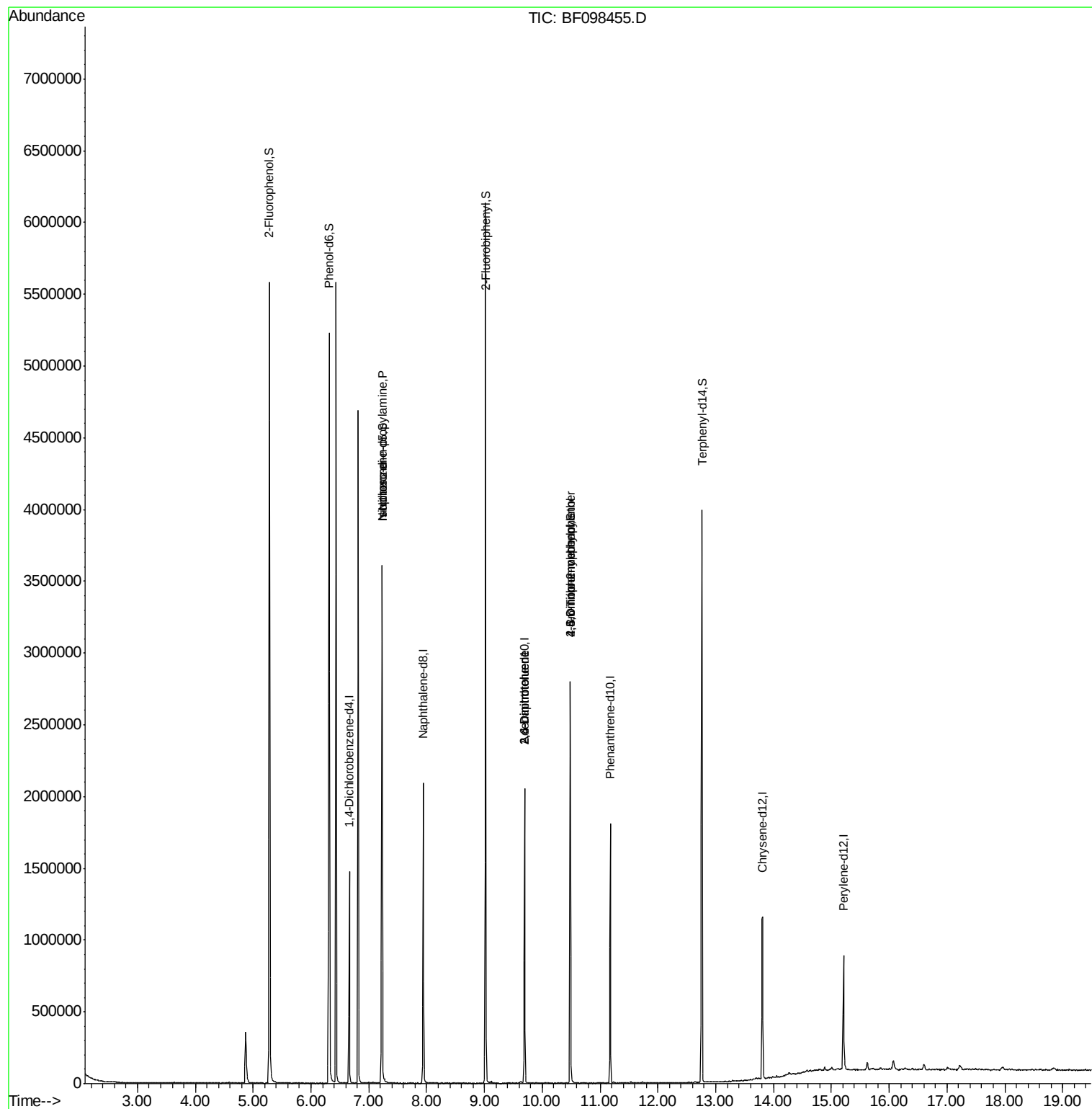
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.66  | 152  | 219682   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.95  | 136  | 900818   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.69  | 164  | 370735   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.17 | 188  | 569678   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.81 | 240  | 384146   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.21 | 264  | 332790   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.28  | 112  | 1690326  | 113.76 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.32  | 99   | 2052757  | 108.81 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.23  | 82   | 1266382  | 78.37  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.49 | 330  | 279779   | 113.07 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.02  | 172  | 1975088  | 90.30  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.76 | 244  | 1237099  | 69.51  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.23  | 70   | 170912   | 14.403 | ng    | # 77     |
| 25) Isophorone                 | 7.23  | 82   | 1234342  | 37.756 | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.69  | 165  | 47833    | 8.114  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.69  | 165  | 47833    | 6.674  | ng    | # 34     |
| 64) 4,6-Dinitro-2-methylphenol | 10.49 | 198  | 718      | 5.149  | ng    | # 54     |
| 66) 4-Bromophenyl-phenylether  | 10.49 | 248  | 20547    | 3.800  | ng    | # 1      |

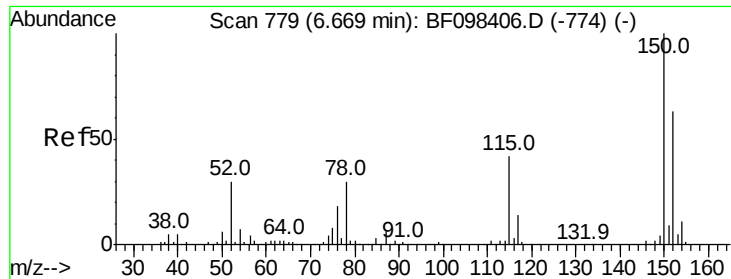
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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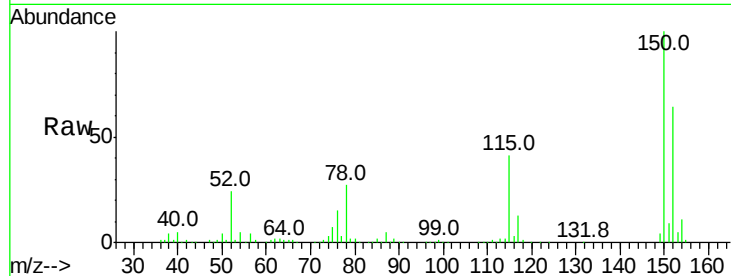


#1

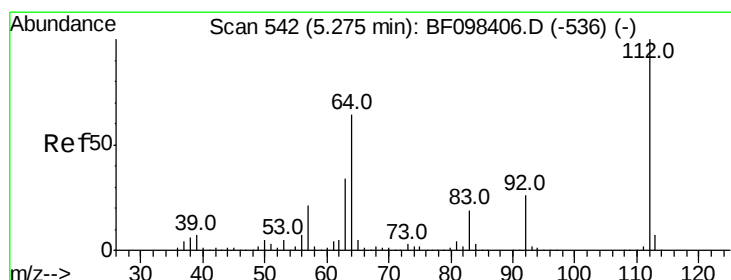
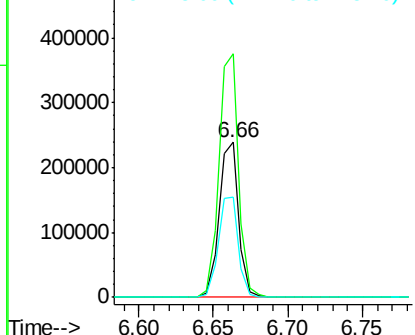
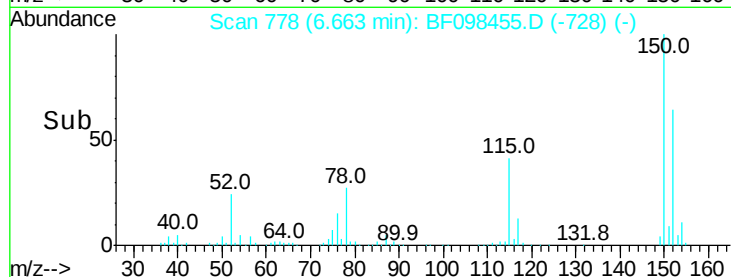
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.66 min Scan# 778  
 Delta R.T. -0.01 min  
 Lab File: BF098455.D  
 Acq: 12 Sep 2017 17:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB102265BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 126.2 | 189.2 |
| 115     | 64.6  | 52.2  | 78.2  |



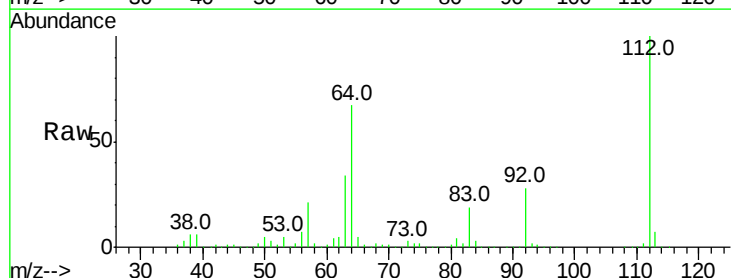
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



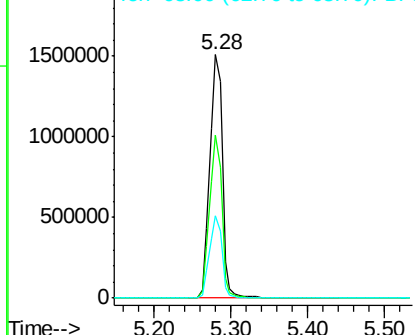
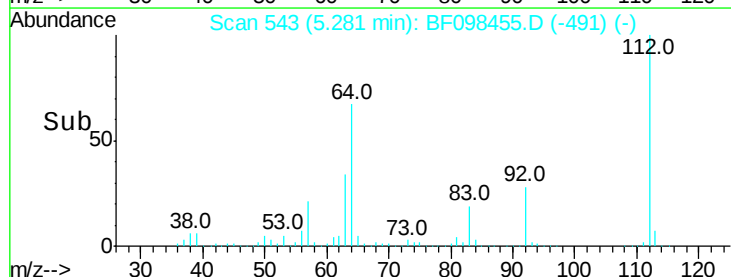
#5

2-Fluorophenol  
 Concen: 113.764 ng  
 RT: 5.28 min Scan# 543  
 Delta R.T. 0.01 min  
 Lab File: BF098455.D  
 Acq: 12 Sep 2017 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.9  | 46.0  | 69.0  |
| 63      | 34.1  | 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: 108.813 ng

RT: 6.32 min Scan# 719

Delta R.T. -0.01 min

Lab File: BF098455.D

Acq: 12 Sep 2017 17:31

Instrument :

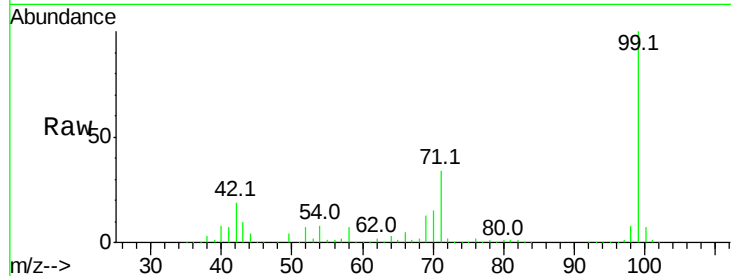
BNA\_F

ClientSampleId :

PB102265BL

Tot Ion: 99 Resp: 2052757

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.0  | 13.5  | 20.3  |
| 71  | 34.1  | 24.5  | 36.7  |

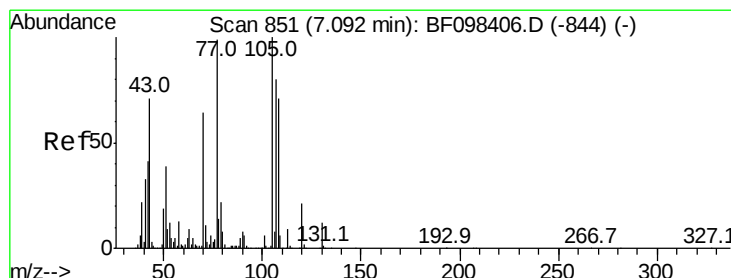
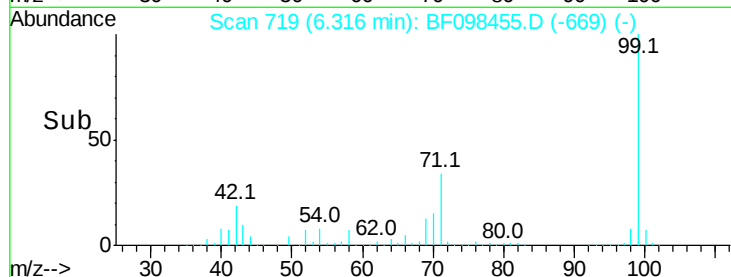
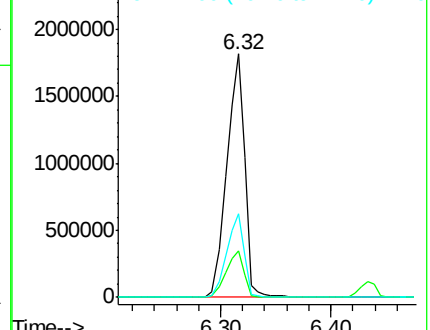


Abundance

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



#19

n-Nitroso-di-n-propylamine

Concen: 14.403 ng

RT: 7.23 min Scan# 875

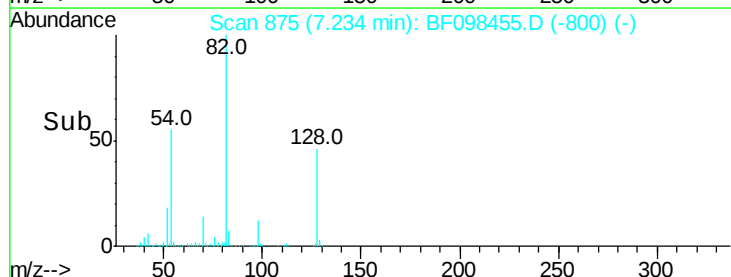
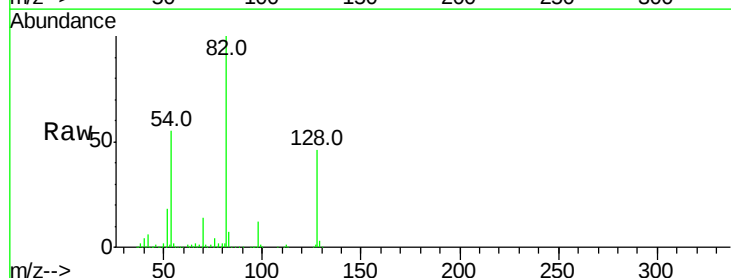
Delta R.T. 0.14 min

Lab File: BF098455.D

Acq: 12 Sep 2017 17:31

Tgt Ion: 70 Resp: 170912

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 46.4  | 47.2  | 70.8# |
| 101 | 0.0   | 7.2   | 10.8# |
| 130 | 2.4   | 15.9  | 23.9# |



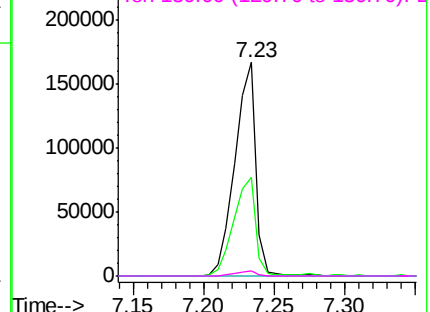
Abundance

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): BF0

Ion 130.00 (129.70 to 130.70): BF0

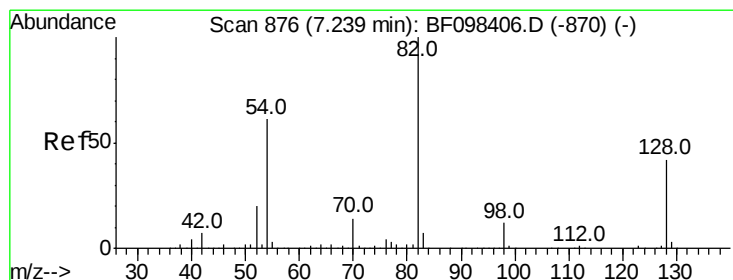
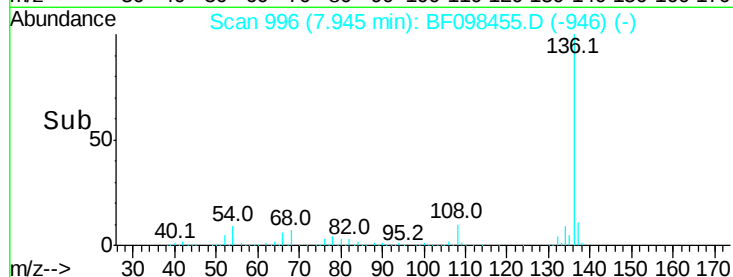
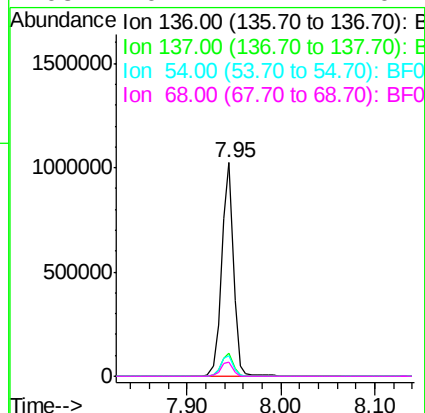
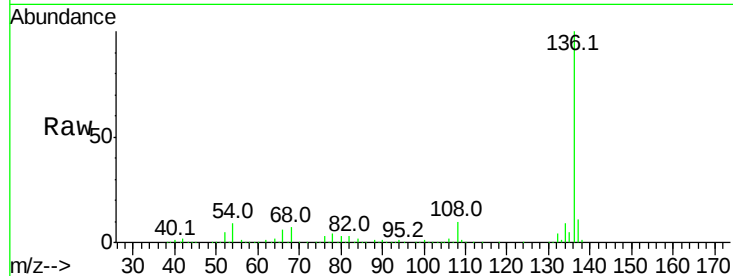




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.95 min Scan# 996  
Delta R.T. -0.01 min  
Lab File: BF098455.D  
Acq: 12 Sep 2017 17:31

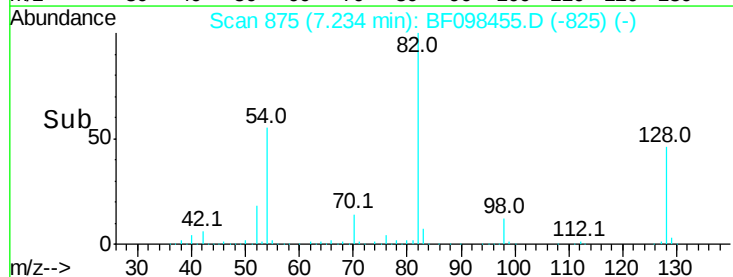
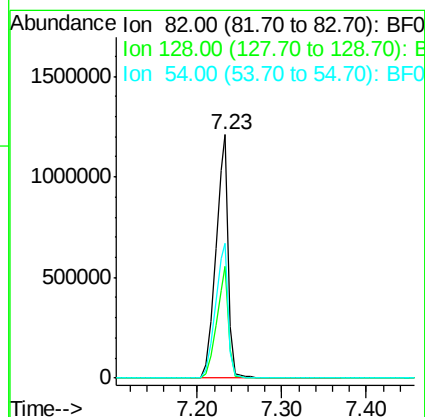
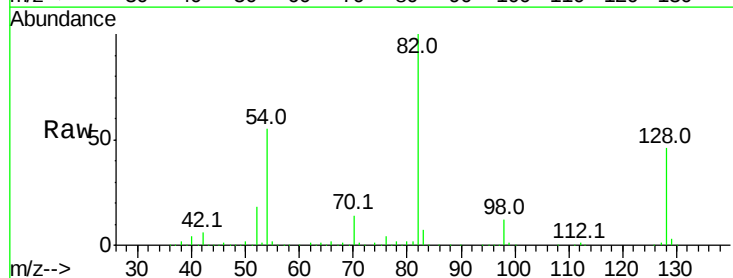
Instrument :  
BNA\_F  
ClientSampleId :  
PB102265BL

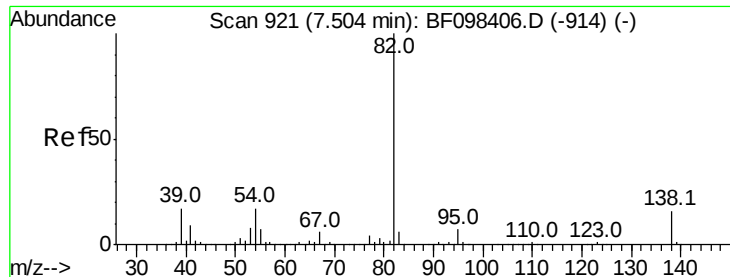
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 900818   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.7  | 8.5 12.7 |
| 54          | 9.4   | 4.9 7.3# |
| 68          | 6.7   | 4.1 6.1# |



#23  
Nitrobenzene-d5  
Concen: 78.374 ng  
RT: 7.23 min Scan# 875  
Delta R.T. -0.01 min  
Lab File: BF098455.D  
Acq: 12 Sep 2017 17:31

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 1266382   |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 45.7  | 34.0 51.0 |
| 54          | 55.2  | 42.2 63.2 |





#25

Isophorone

Concen: 37.756 ng

RT: 7.23 min Scan# 875

Delta R.T. -0.27 min

Lab File: BF098455.D

Acq: 12 Sep 2017 17:31

Instrument :

BNA\_F

ClientSampleId :

PB102265BL

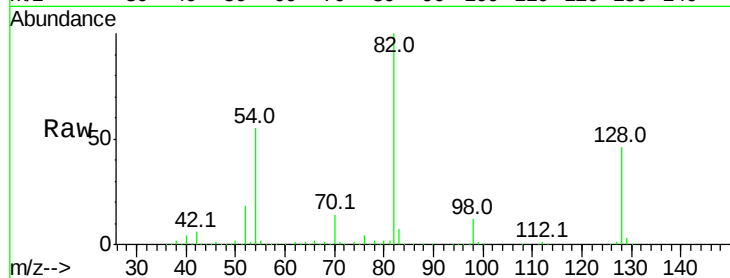
Tot Ion: 82 Resp: 1234342

Ion Ratio Lower Upper

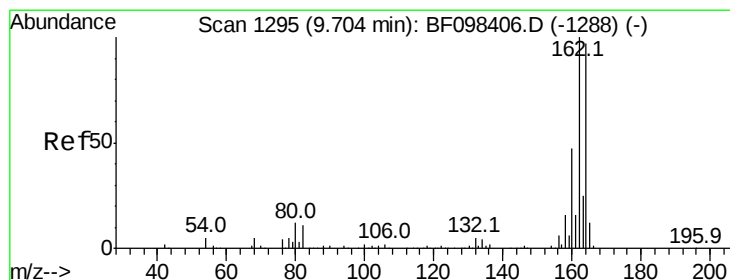
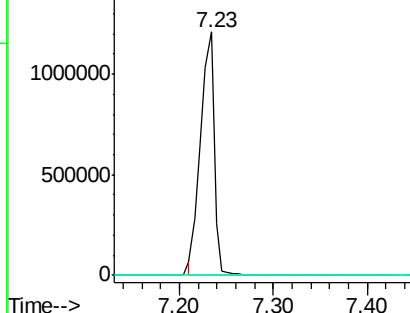
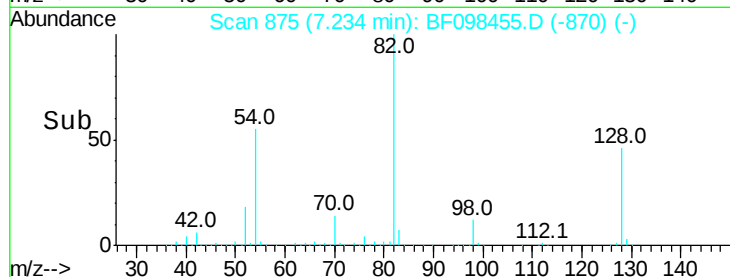
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.69 min Scan# 1293

Delta R.T. -0.01 min

Lab File: BF098455.D

Acq: 12 Sep 2017 17:31

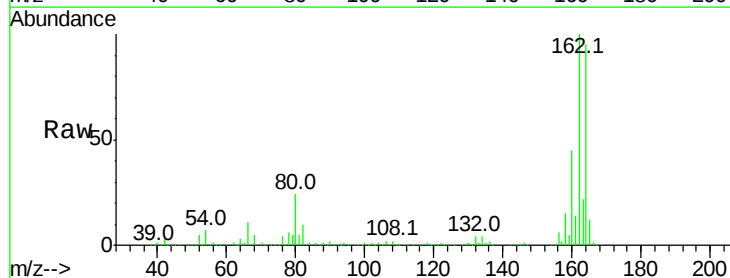
Tgt Ion:164 Resp: 370735

Ion Ratio Lower Upper

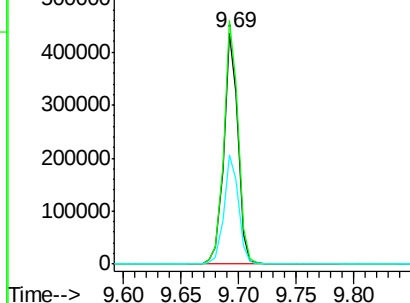
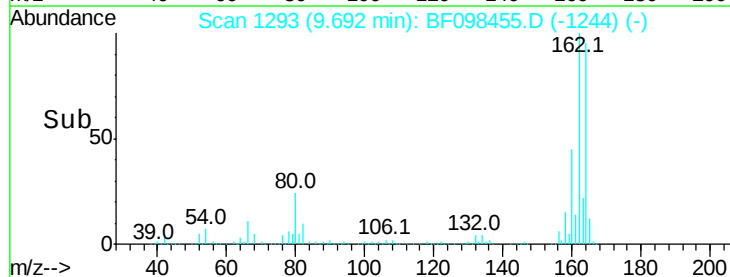
164 100

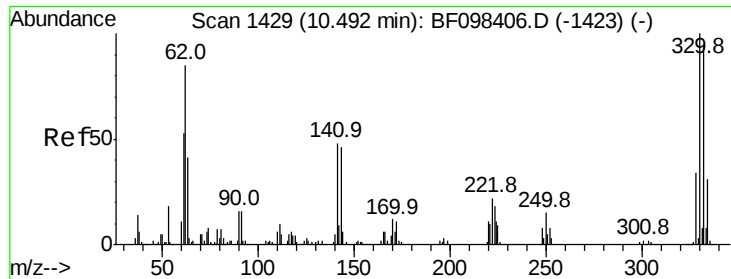
162 105.5 82.6 123.8

160 47.1 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

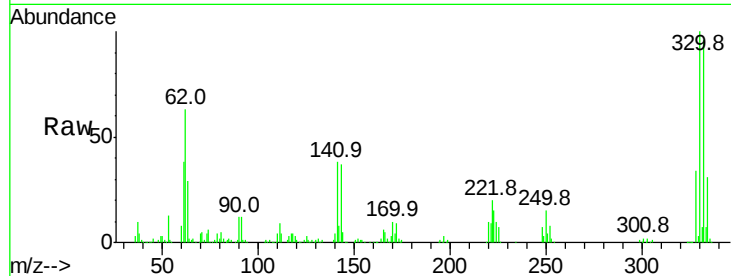




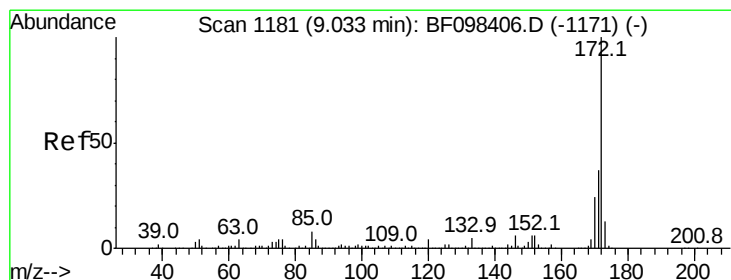
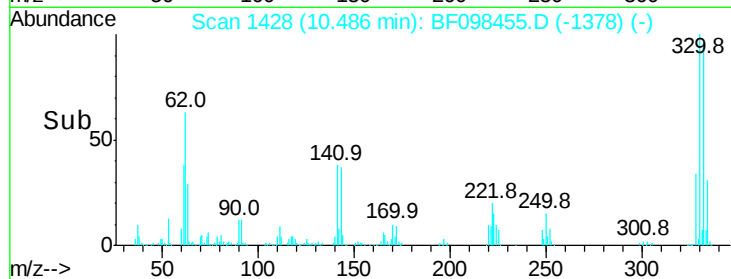
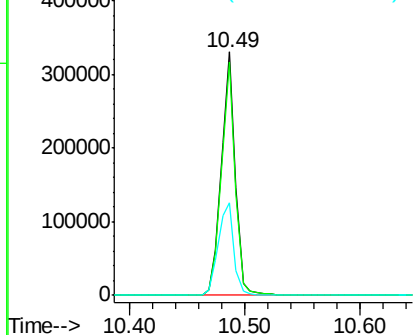
#41  
 2,4,6-Tribromophenol  
 Concen: 113.072 ng  
 RT: 10.49 min Scan# 1428  
 Delta R.T. -0.01 min  
 Lab File: BF098455.D  
 Acq: 12 Sep 2017 17:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB102265BL

Tot Ion:330 Resp: 279779  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 76.6 115.0  
 141 42.8 31.4 47.2

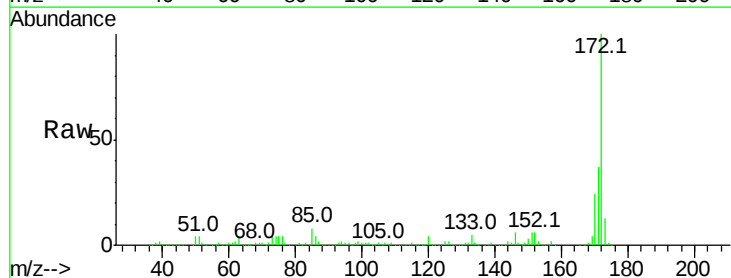


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

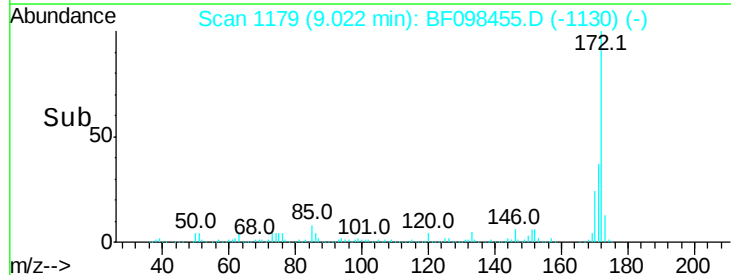
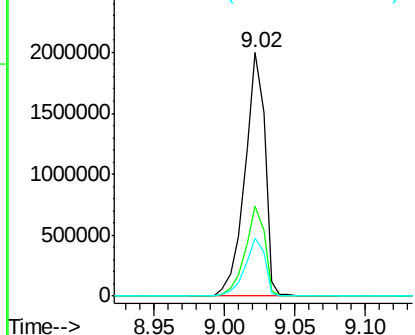


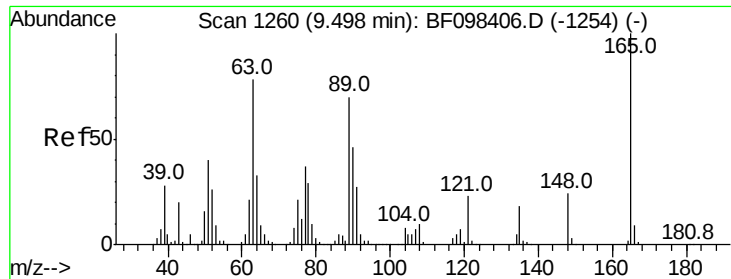
#44  
 2-Fluorobiphenyl  
 Concen: 90.297 ng  
 RT: 9.02 min Scan# 1179  
 Delta R.T. -0.01 min  
 Lab File: BF098455.D  
 Acq: 12 Sep 2017 17:31

Tgt Ion:172 Resp: 1975088  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 29.6 44.4  
 170 24.1 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

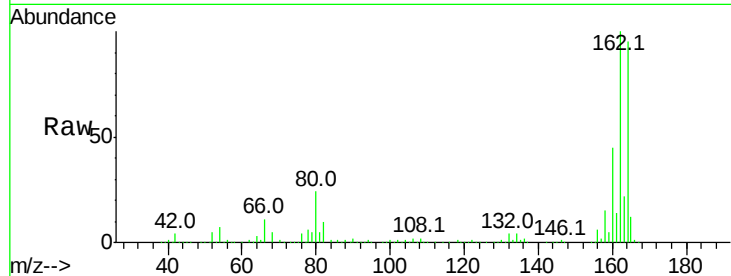




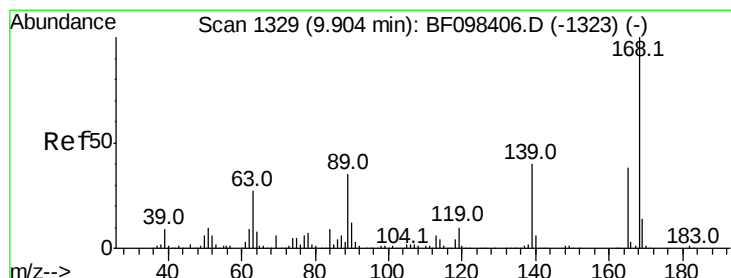
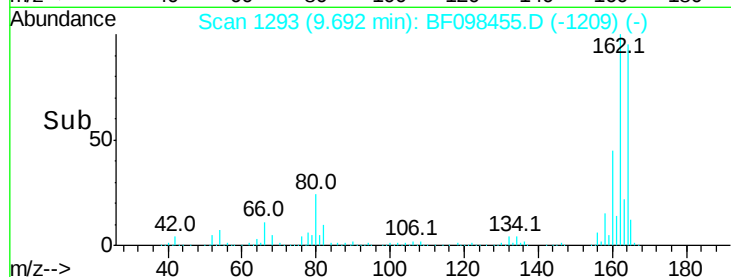
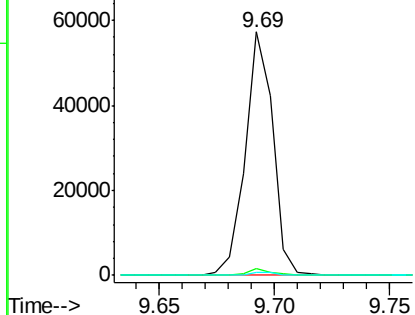
#50  
 2,6-Dinitrotoluene  
 Concen: 8.114 ng  
 RT: 9.69 min Scan# 1293  
 Delta R.T. 0.19 min  
 Lab File: BF098455.D  
 Acq: 12 Sep 2017 17:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB102265BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.8   | 34.3  | 51.5# |
| 89      | 1.2   | 37.1  | 55.7# |

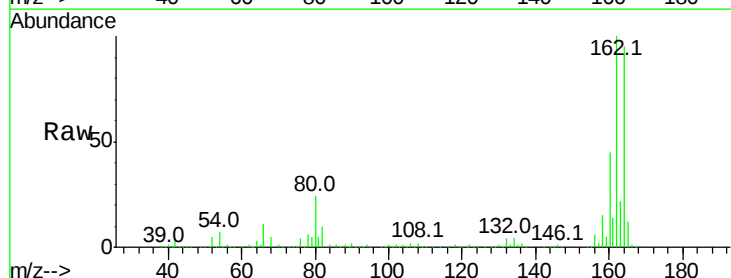


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

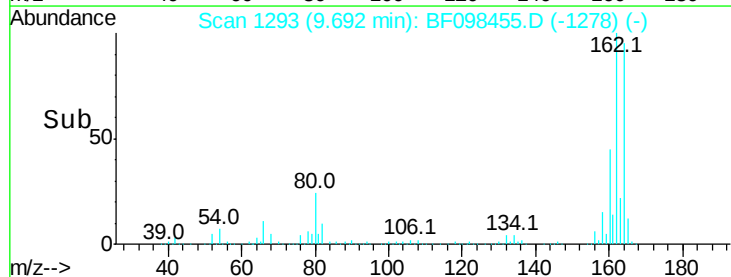
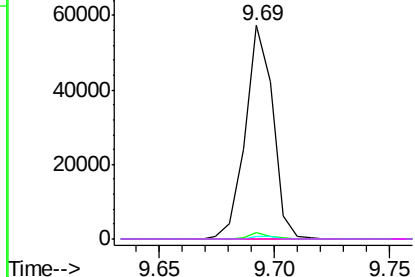


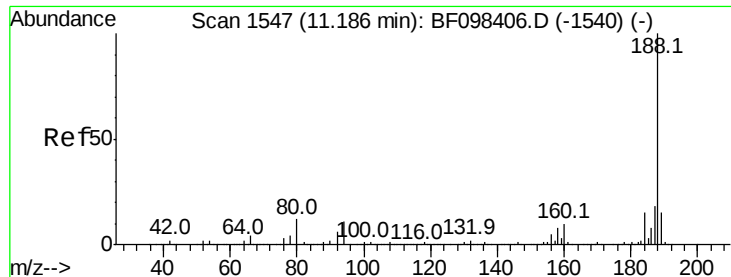
#56  
 2,4-Dinitrotoluene  
 Concen: 6.674 ng  
 RT: 9.69 min Scan# 1293  
 Delta R.T. -0.21 min  
 Lab File: BF098455.D  
 Acq: 12 Sep 2017 17:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.8   | 25.4  | 38.0# |
| 89      | 1.2   | 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: 11.17 min Scan# 1545

Delta R.T. -0.01 min

Lab File: BF098455.D

Acq: 12 Sep 2017 17:31

Instrument :

BNA\_F

ClientSampleId :

PB102265BL

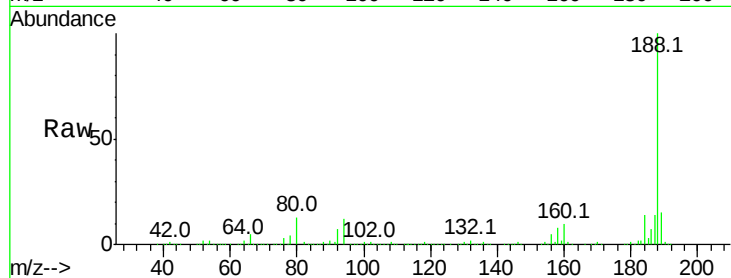
Tot Ion:188 Resp: 569678

Ion Ratio Lower Upper

188 100

94 11.9 9.4 14.2

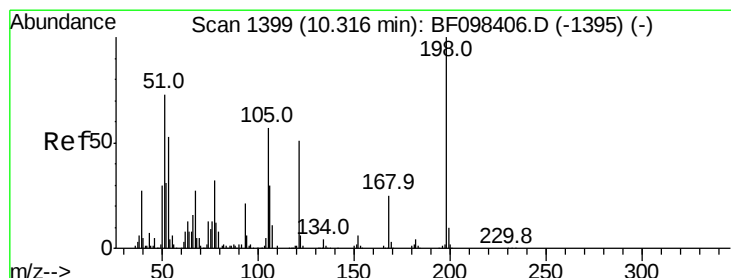
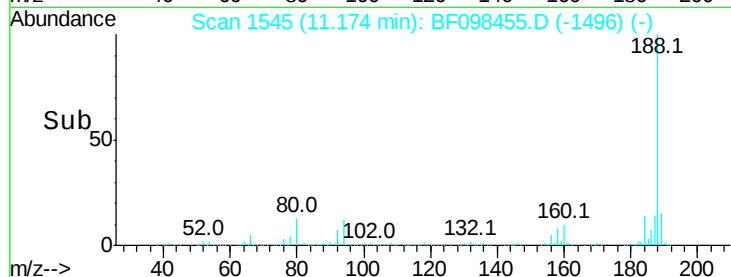
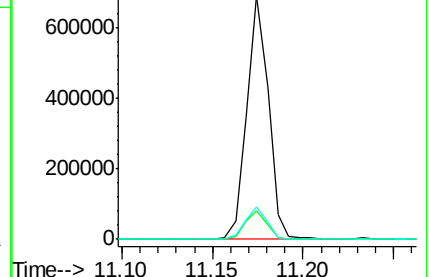
80 13.4 10.2 15.2



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: 5.149 ng

RT: 10.49 min Scan# 1428

Delta R.T. 0.17 min

Lab File: BF098455.D

Acq: 12 Sep 2017 17:31

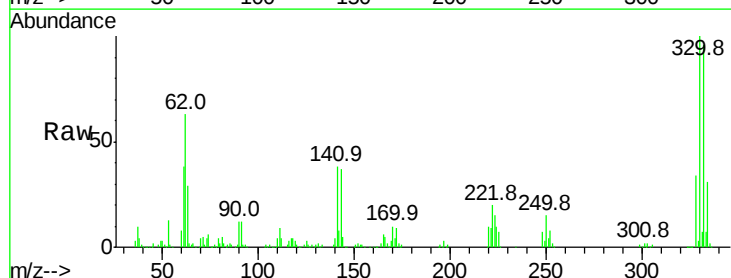
Tgt Ion:198 Resp: 718

Ion Ratio Lower Upper

198 100

51 33.2 53.2 93.2#

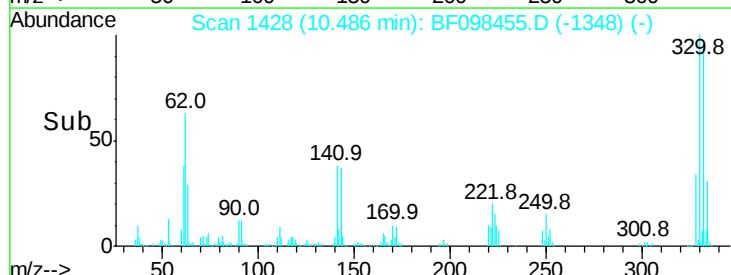
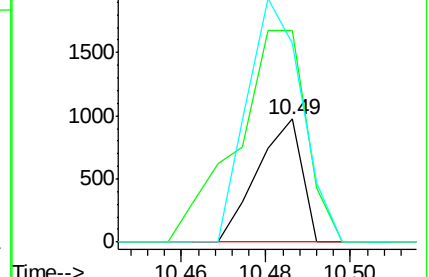
105 31.1 45.8 85.8#

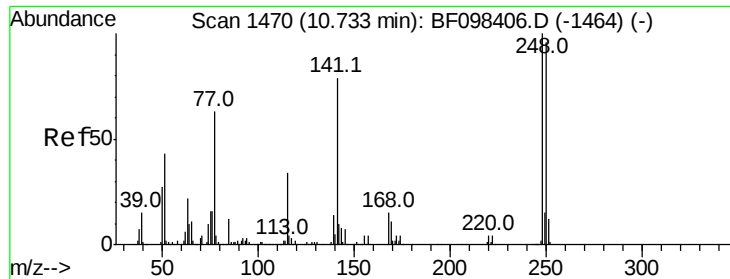


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

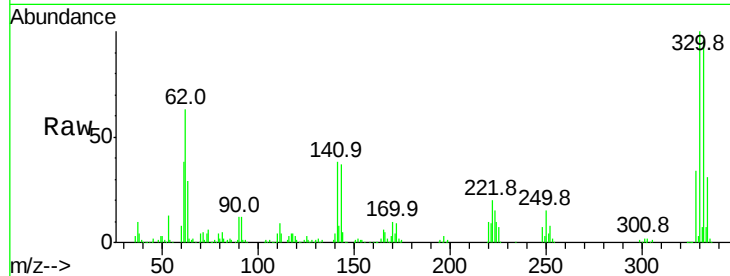




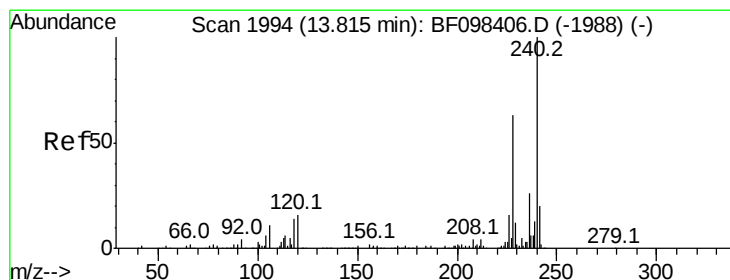
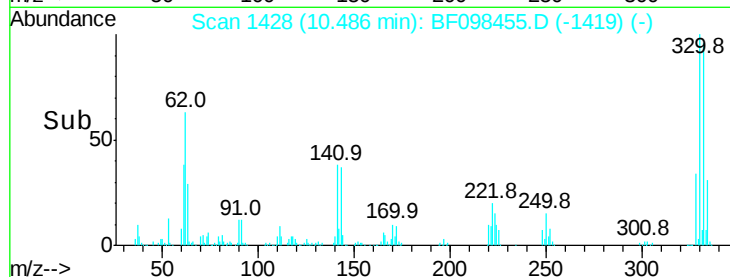
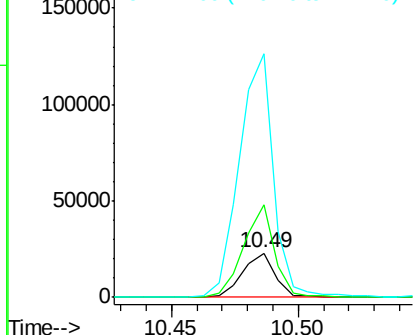
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.800 ng  
 RT: 10.49 min Scan# 1428  
 Delta R.T. -0.25 min  
 Lab File: BF098455.D  
 Acq: 12 Sep 2017 17:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB102265BL

Tot Ion:248 Resp: 20547  
 Ion Ratio Lower Upper  
 248 100  
 250 209.7 76.8 115.2#  
 141 550.3 68.6 103.0#

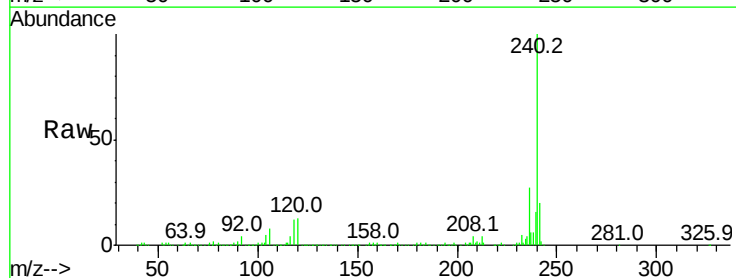


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

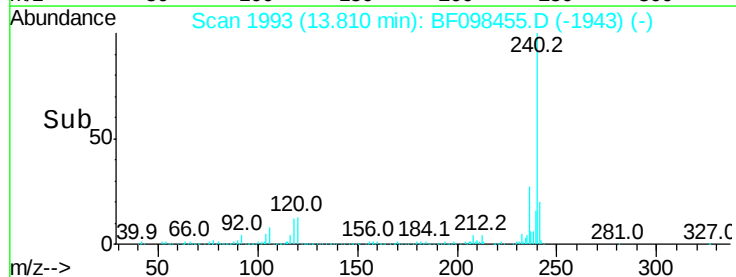
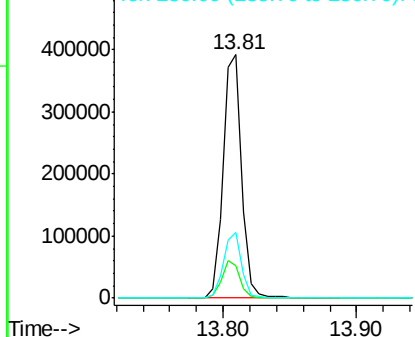


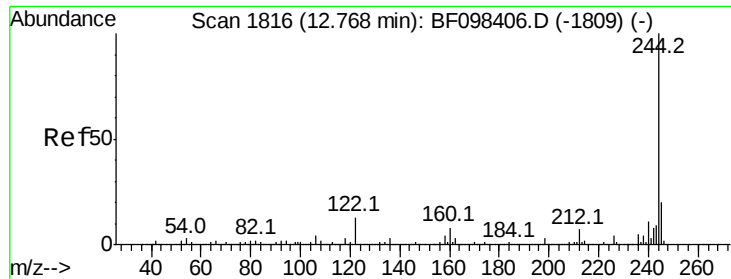
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.81 min Scan# 1993  
 Delta R.T. -0.01 min  
 Lab File: BF098455.D  
 Acq: 12 Sep 2017 17:31

Tgt Ion:240 Resp: 384146  
 Ion Ratio Lower Upper  
 240 100  
 120 13.4 5.8 8.8#  
 236 26.8 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: 69.511 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.01 min

Lab File: BF098455.D

Acq: 12 Sep 2017 17:31

Instrument :

BNA\_F

ClientSampleId :

PB102265BL

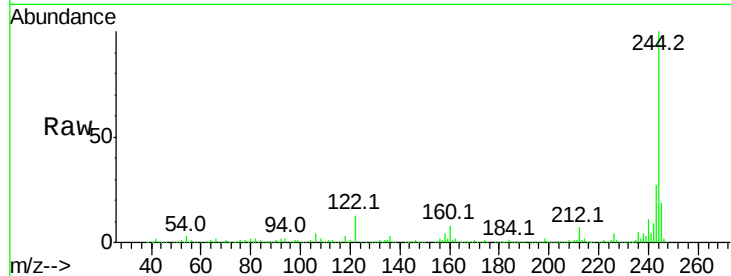
Tot Ion:244 Resp: 1237099

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

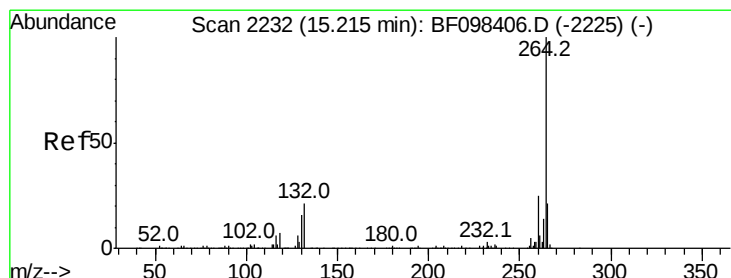
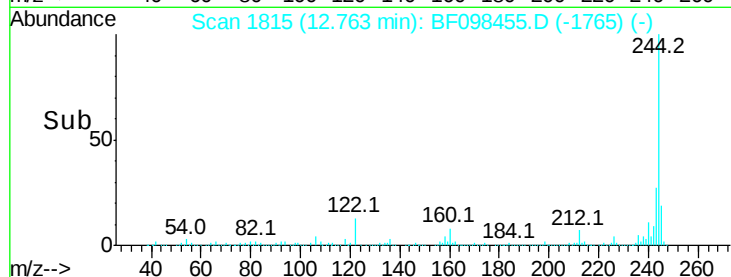
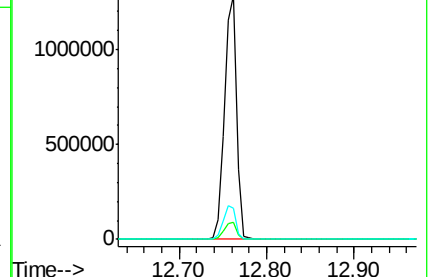
122 12.8 10.3 15.5



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.21 min Scan# 2231

Delta R.T. -0.01 min

Lab File: BF098455.D

Acq: 12 Sep 2017 17:31

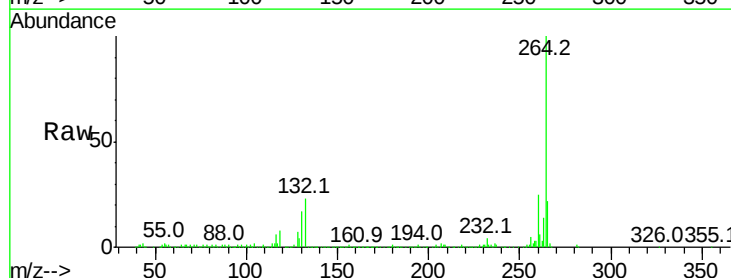
Tgt Ion:264 Resp: 332790

Ion Ratio Lower Upper

264 100

260 24.6 19.5 29.3

265 21.6 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

