

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\  
 Data File : BF096900.D  
 Acq On : 20 Jul 2017 11:02  
 Operator : SJ/JU  
 Sample : I4203-15RE  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 20 15:27:36 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 18 13:33:22 2017  
 Response via : Initial Calibration

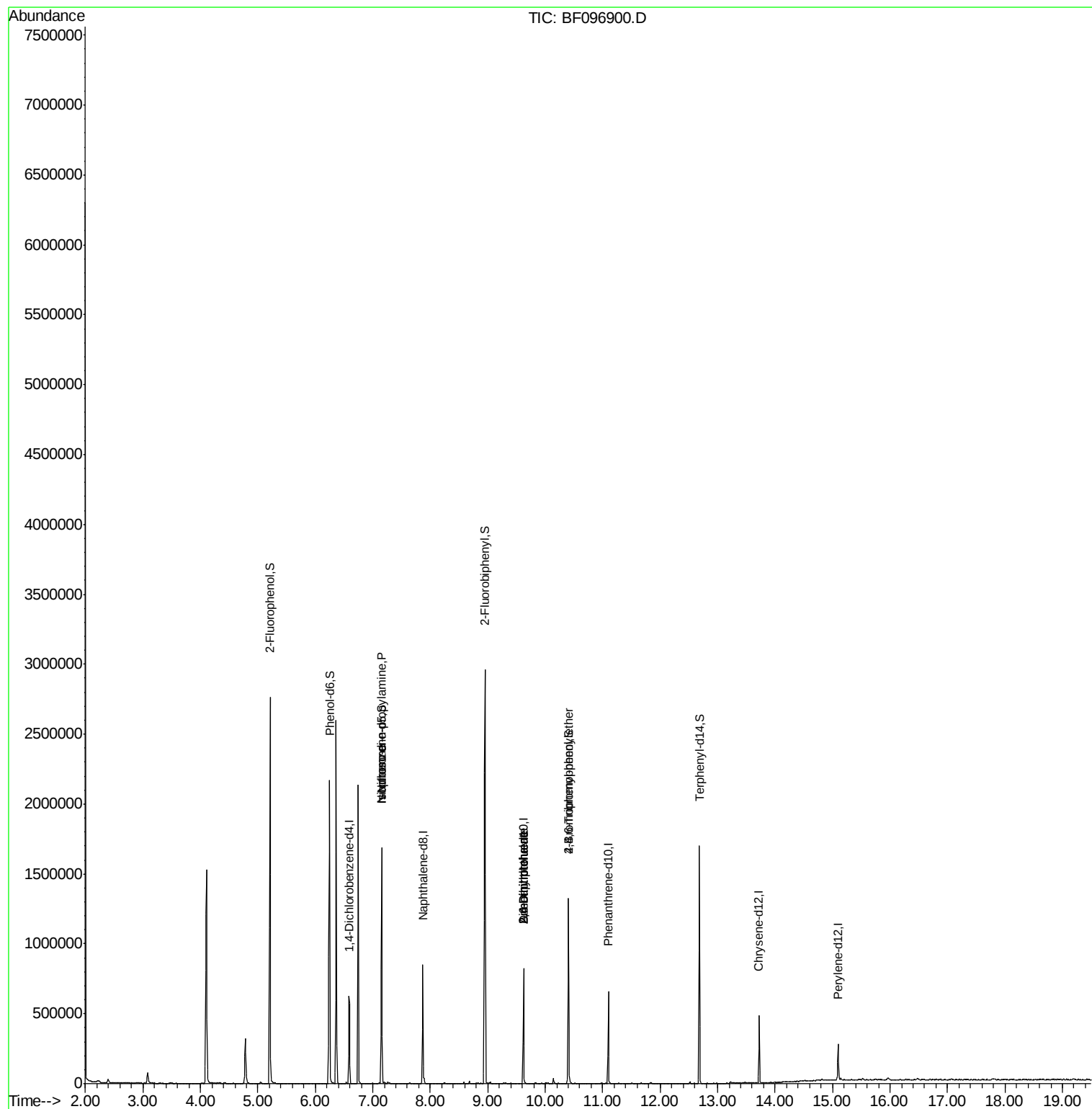
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.59  | 152  | 94880    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.87  | 136  | 380313   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.62  | 164  | 171252   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.10 | 188  | 241428   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.72 | 240  | 156222   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.10 | 264  | 108345   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.21  | 112  | 795491   | 126.06 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.25  | 99   | 790739   | 104.42 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.16  | 82   | 526750   | 85.79  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.41 | 330  | 168618   | 115.35 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.95  | 172  | 1019375  | 94.04  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.68 | 244  | 581674   | 64.57  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.16  | 70   | 69625    | 15.262 | ng    | # 88     |
| 25) Isophorone                 | 7.16  | 82   | 524186   | 45.893 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.62  | 163  | 52377    | 4.062  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.62  | 165  | 21926    | 7.850  | ng    | # 35     |
| 56) 2,4-Dinitrotoluene         | 9.62  | 165  | 21926    | 6.109  | ng    | # 34     |
| 66) 4-Bromophenyl-phenylether  | 10.41 | 248  | 10898    | 4.421  | ng    | # 1      |

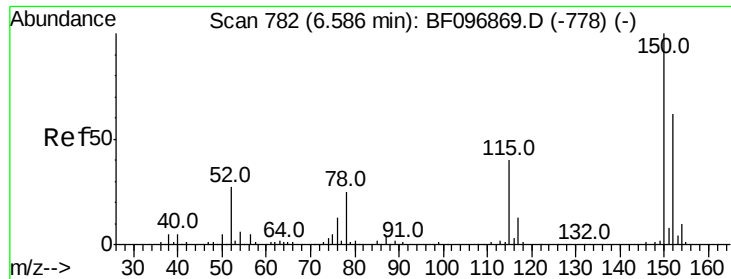
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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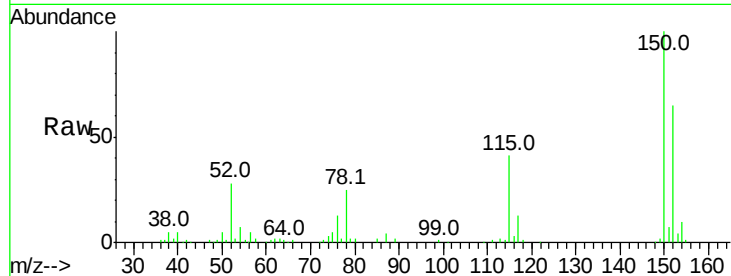


#1

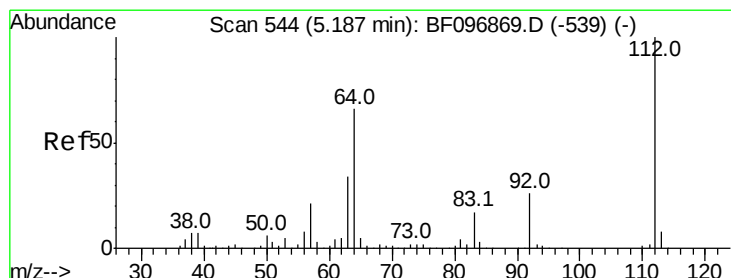
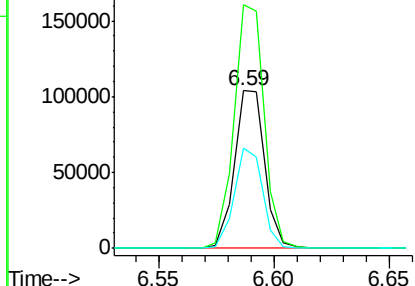
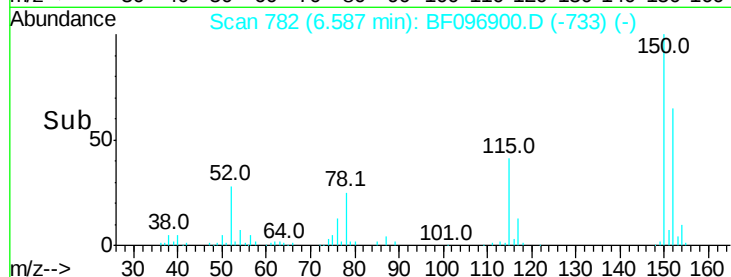
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.59 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF096900.D  
Acq: 20 Jul 2017 11:02

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 94880  
Ion Ratio Lower Upper  
152 100  
150 154.3 126.2 189.2  
115 63.5 52.2 78.2



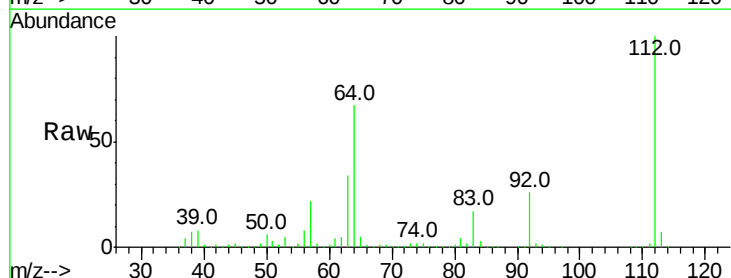
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



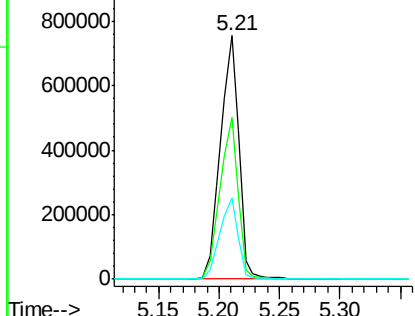
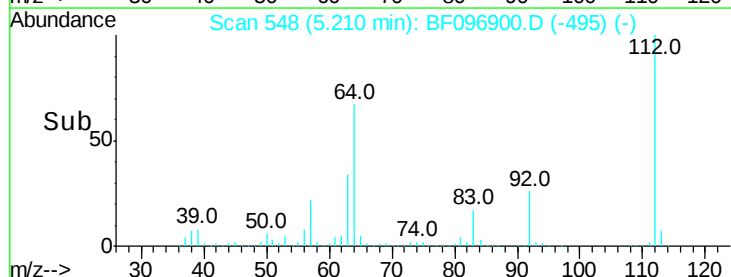
#5

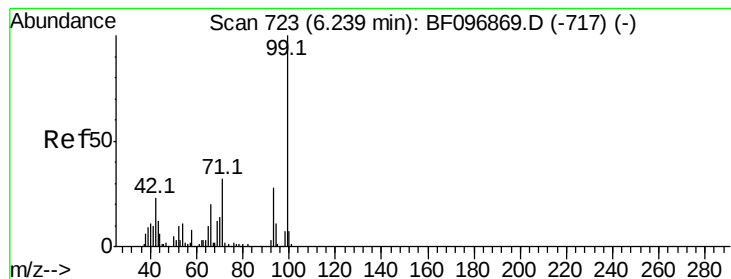
2-Fluorophenol  
Concen: 126.063 ng  
RT: 5.21 min Scan# 548  
Delta R.T. 0.01 min  
Lab File: BF096900.D  
Acq: 20 Jul 2017 11:02

Tgt Ion:112 Resp: 795491  
Ion Ratio Lower Upper  
112 100  
64 66.6 46.0 69.0  
63 33.5 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: 104.423 ng

RT: 6.25 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

Instrument :

BNA\_F

ClientSampleId :

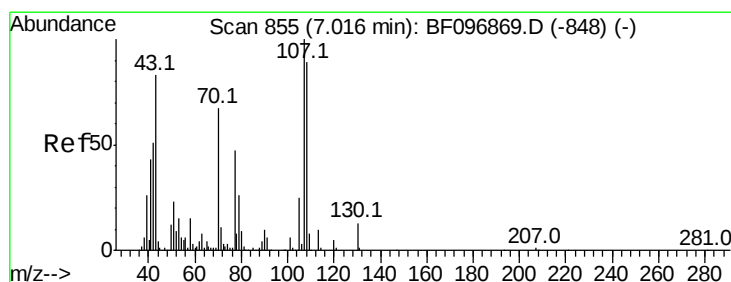
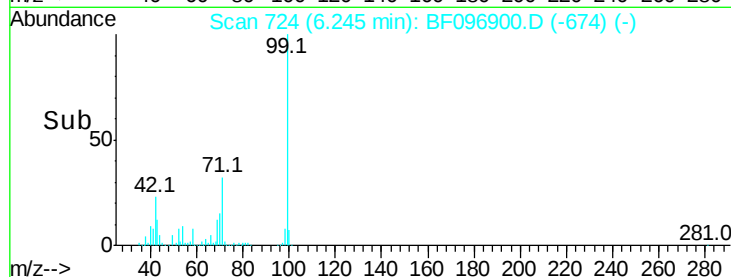
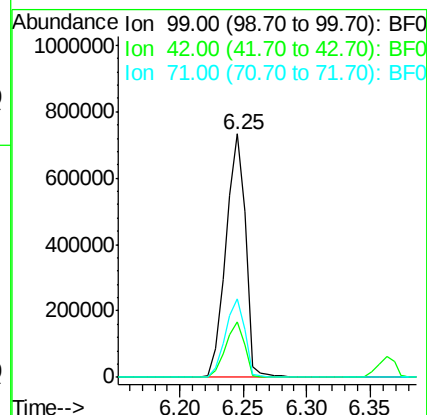
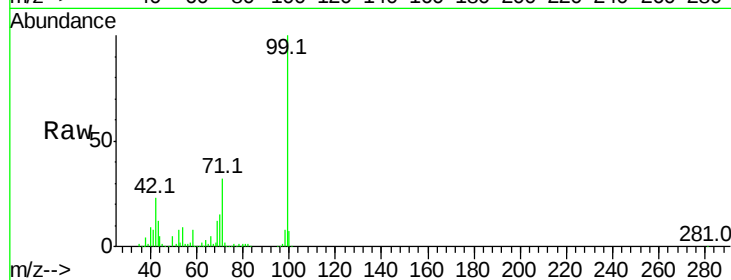
Tot Ion: 99 Resp: 790739

Ion Ratio Lower Upper

99 100

42 22.6 13.5 20.3#

71 32.2 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 15.262 ng

RT: 7.16 min Scan# 879

Delta R.T. 0.13 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

Tgt Ion: 70 Resp: 69625

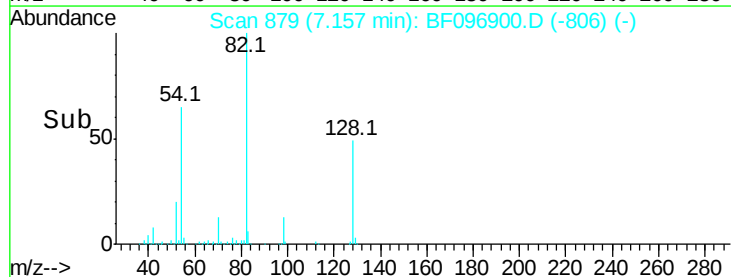
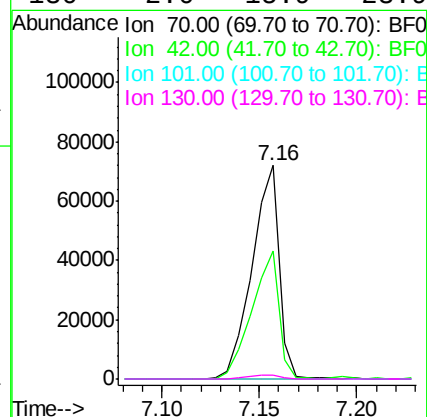
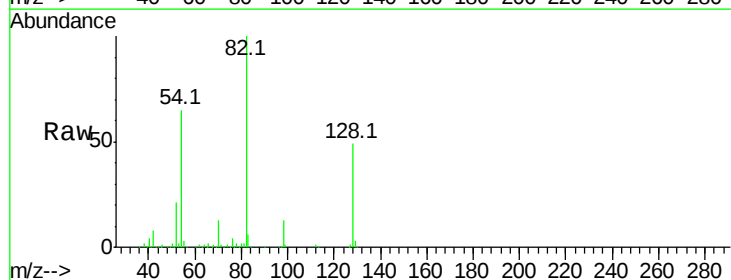
Ion Ratio Lower Upper

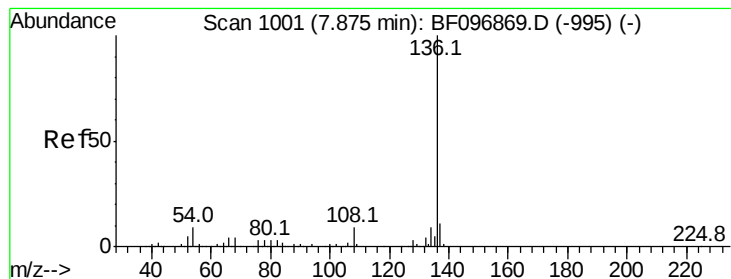
70 100

42 59.7 47.2 70.8

101 0.0 7.2 10.8#

130 2.0 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.87 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 380313

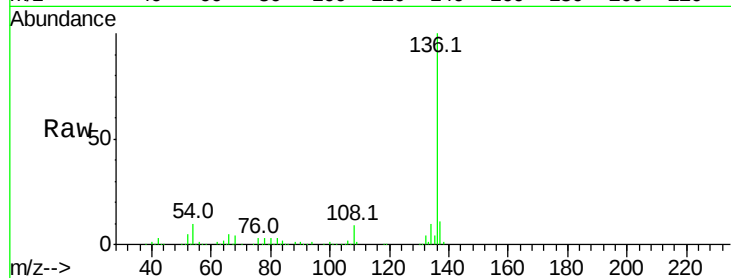
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 10.2 4.9 7.3#

68 4.4 4.1 6.1

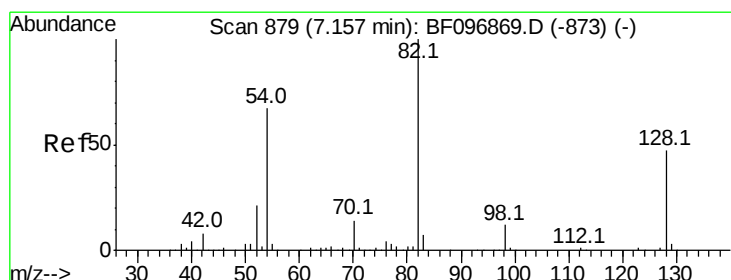
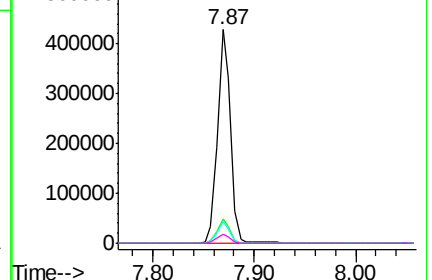
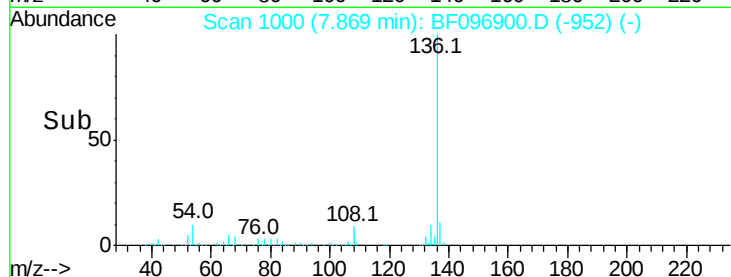


Abundance Ion 136.00 (135.70 to 136.70): E

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: 85.791 ng

RT: 7.16 min Scan# 879

Delta R.T. -0.01 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

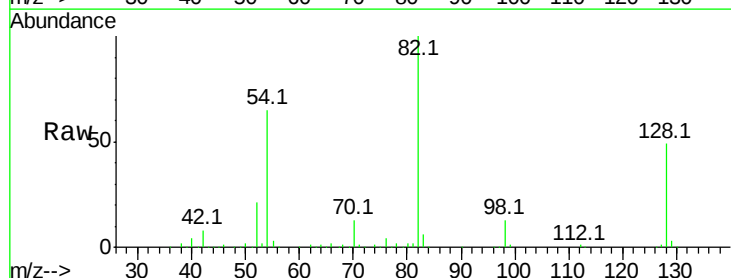
Tgt Ion: 82 Resp: 526750

Ion Ratio Lower Upper

82 100

128 48.5 34.0 51.0

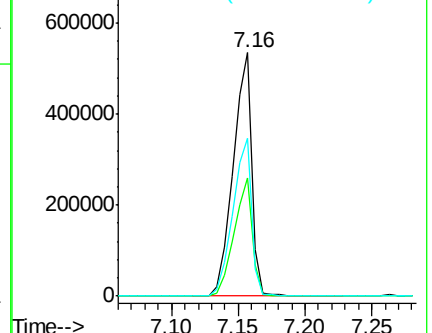
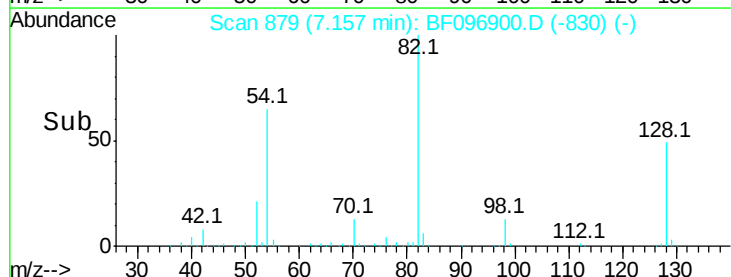
54 64.6 42.2 63.2#

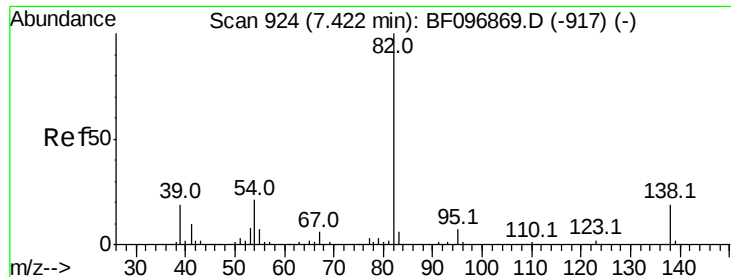


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 45.893 ng

RT: 7.16 min Scan# 879

Delta R.T. -0.28 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

Instrument :

BNA\_F

ClientSampleId :

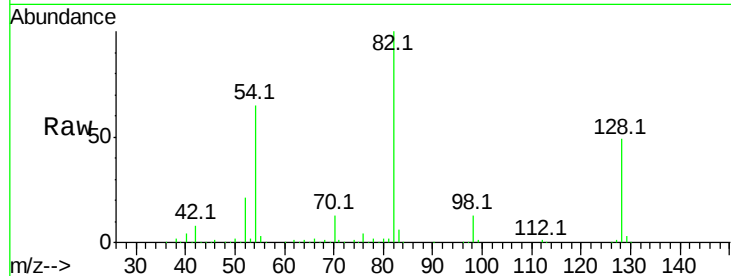
Tot Ion: 82 Resp: 524186

Ion Ratio Lower Upper

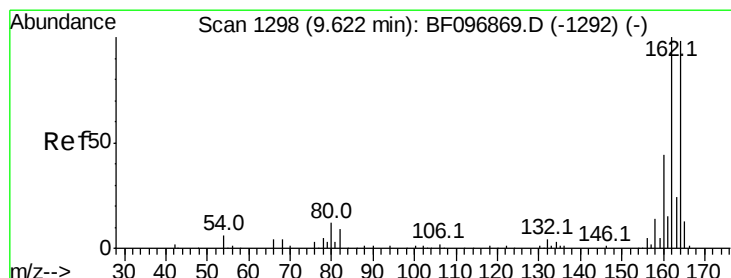
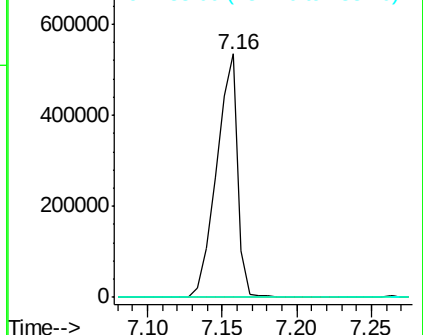
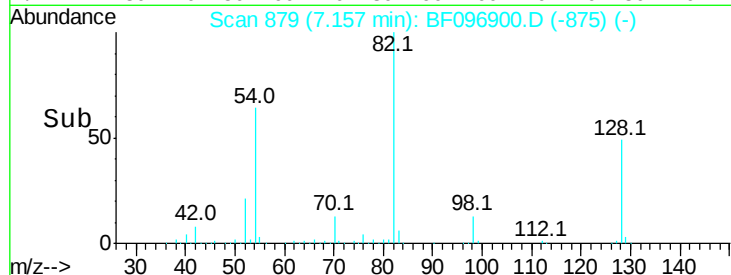
82 100

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: 9.62 min Scan# 1298

Delta R.T. -0.01 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

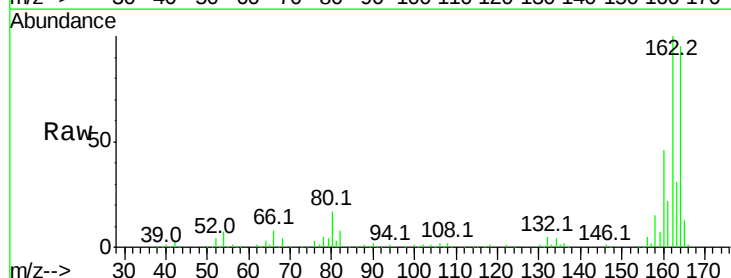
Tgt Ion:164 Resp: 171252

Ion Ratio Lower Upper

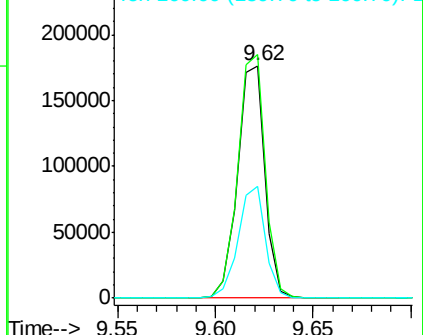
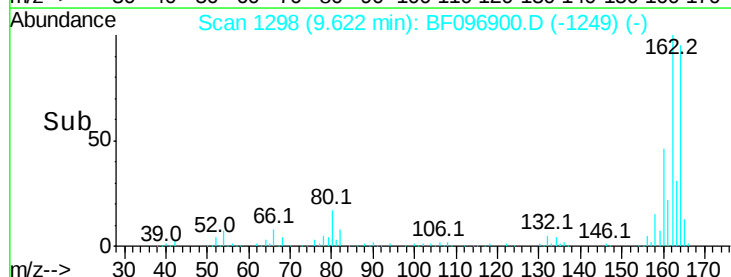
164 100

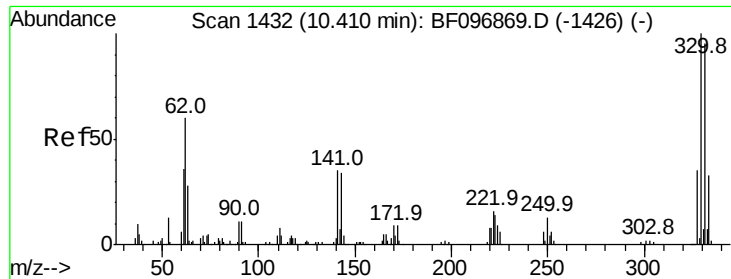
162 104.8 82.6 123.8

160 47.8 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

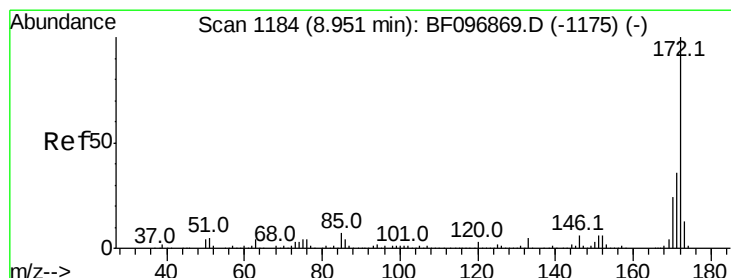
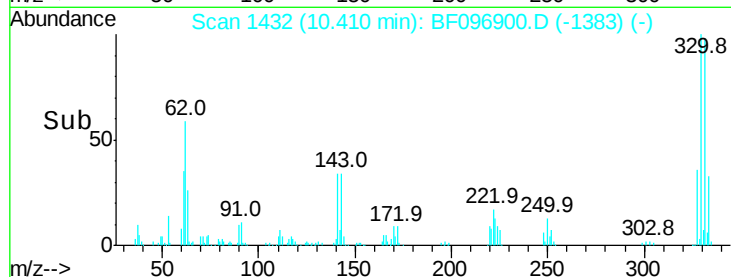
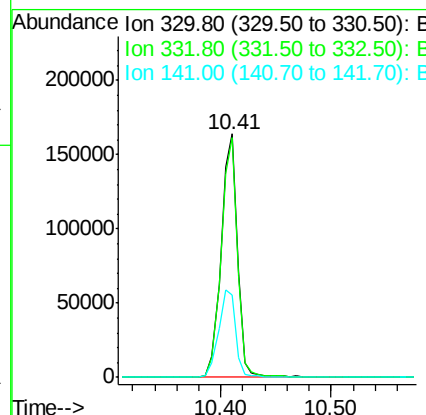
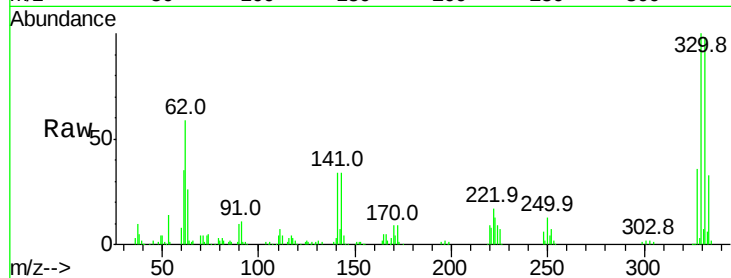




#41  
 2,4,6-Tribromophenol  
 Concen: 115.351 ng  
 RT: 10.41 min Scan# 1432  
 Delta R.T. -0.01 min  
 Lab File: BF096900.D  
 Acq: 20 Jul 2017 11:02

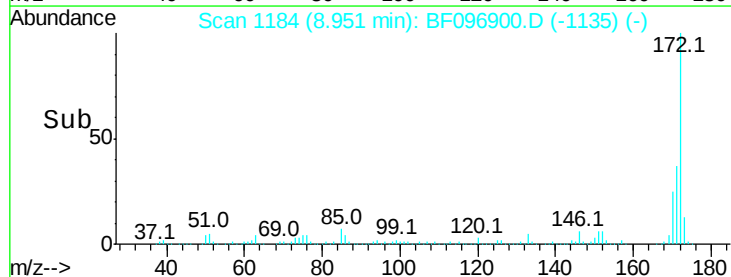
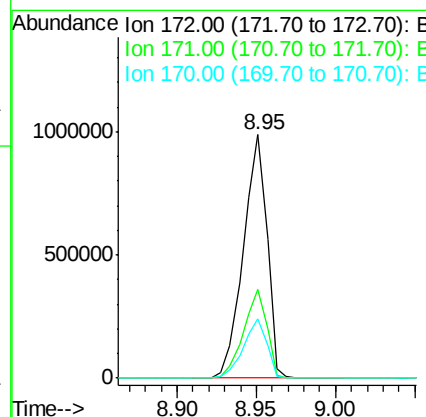
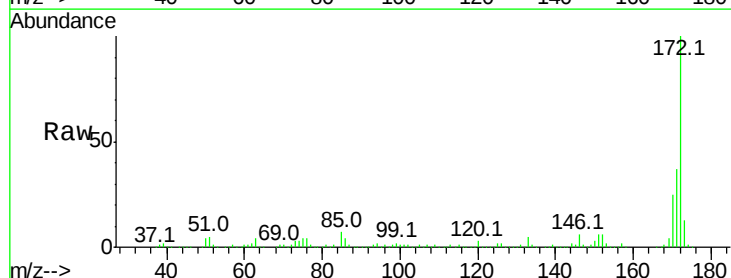
Instrument :  
 BNA\_F  
 ClientSampleId :

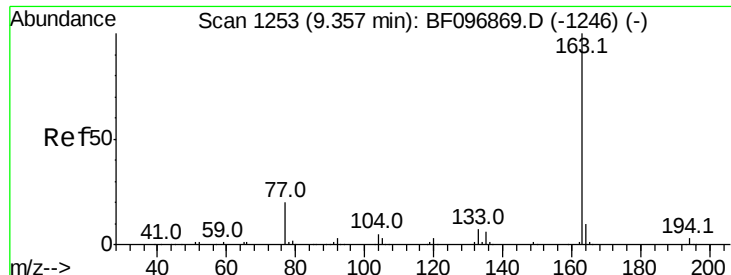
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 76.6  | 115.0 |
| 141     | 37.1  | 31.4  | 47.2  |



#44  
 2-Fluorobiphenyl  
 Concen: 94.045 ng  
 RT: 8.95 min Scan# 1184  
 Delta R.T. -0.01 min  
 Lab File: BF096900.D  
 Acq: 20 Jul 2017 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 29.6  | 44.4  |
| 170     | 24.5  | 19.8  | 29.8  |





#49

Dimethylphthalate

Concen: 4.062 ng

RT: 9.62 min Scan# 1298

Delta R.T. 0.25 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

Instrument :

BNA\_F

ClientSampleId :

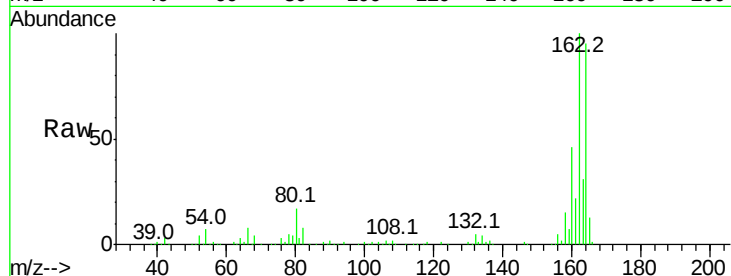
Tot Ion:163 Resp: 52377

Ion Ratio Lower Upper

163 100

194 0.0 2.6 4.0#

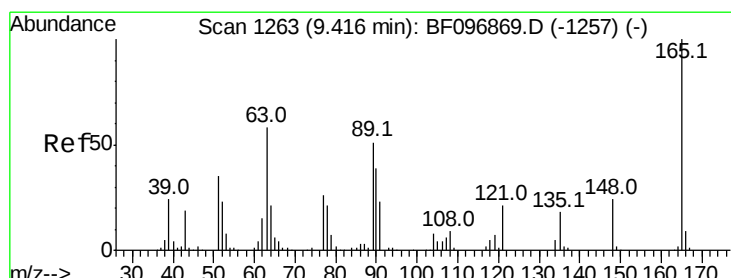
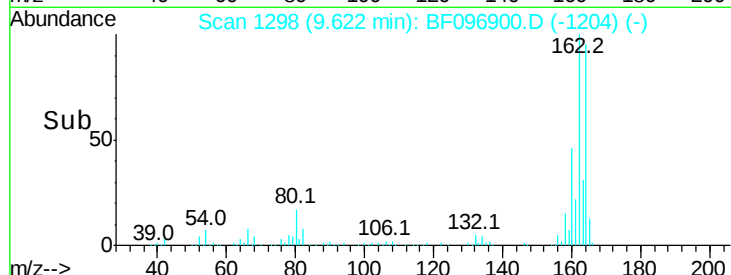
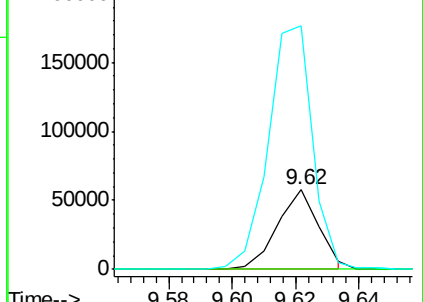
164 307.5 8.4 12.6#



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



#50

2,6-Dinitrotoluene

Concen: 7.850 ng

RT: 9.62 min Scan# 1298

Delta R.T. 0.19 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

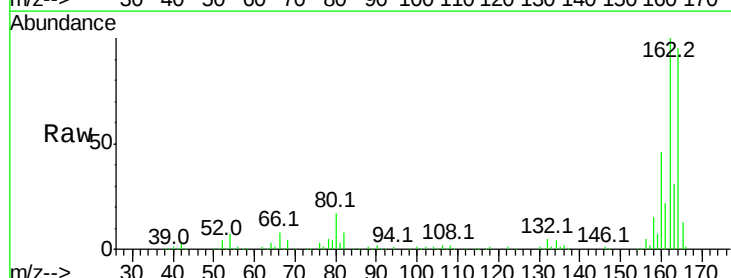
Tgt Ion:165 Resp: 21926

Ion Ratio Lower Upper

165 100

63 2.9 34.3 51.5#

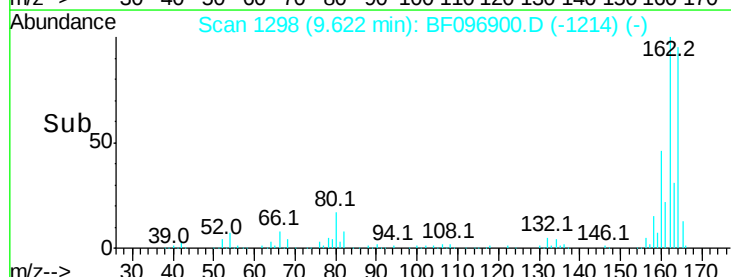
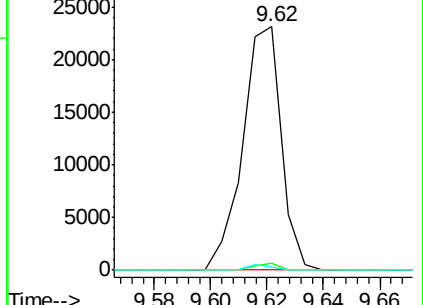
89 1.4 37.1 55.7#

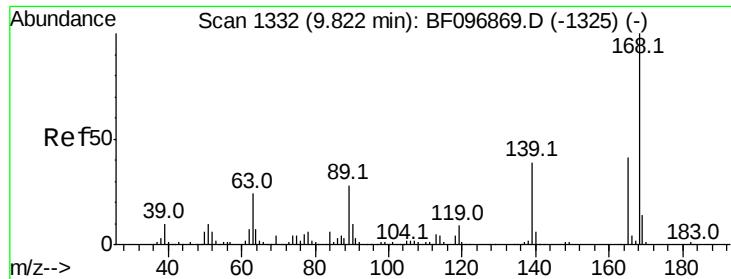


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

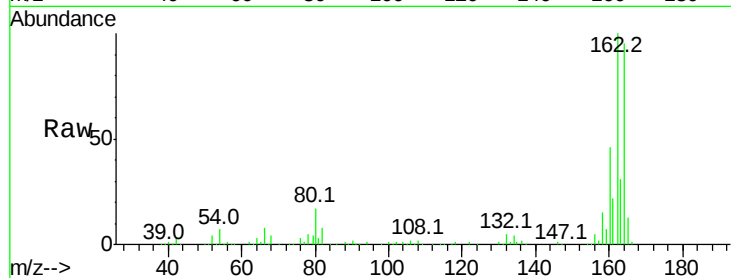




#56  
 2,4-Dinitrotoluene  
 Concen: 6.109 ng  
 RT: 9.62 min Scan# 1298  
 Delta R.T. -0.21 min  
 Lab File: BF096900.D  
 Acq: 20 Jul 2017 11:02

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.9   | 25.4  | 38.0# |
| 89      | 1.4   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

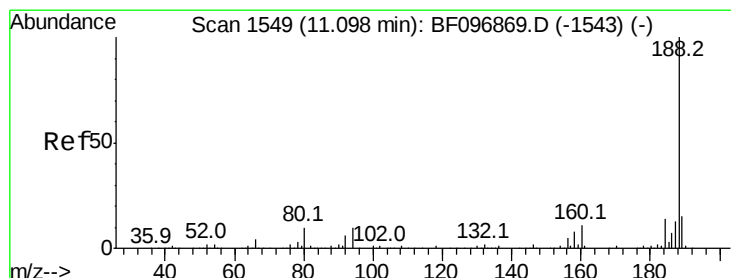
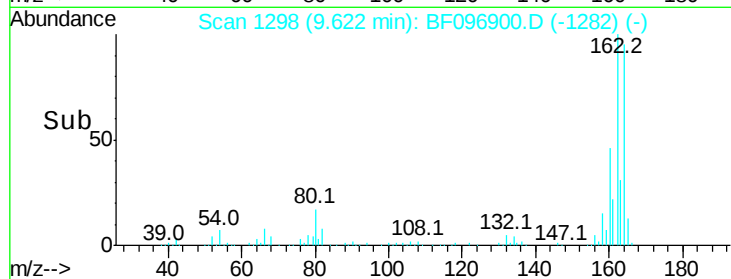
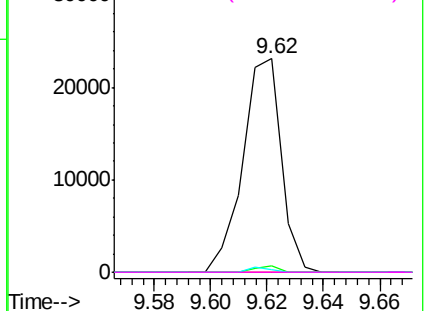


Abundance Ion 165.00 (164.70 to 165.70): E

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



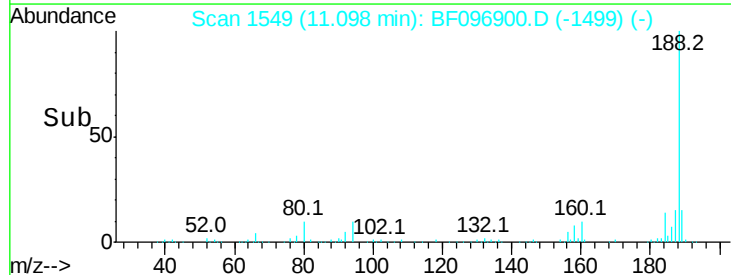
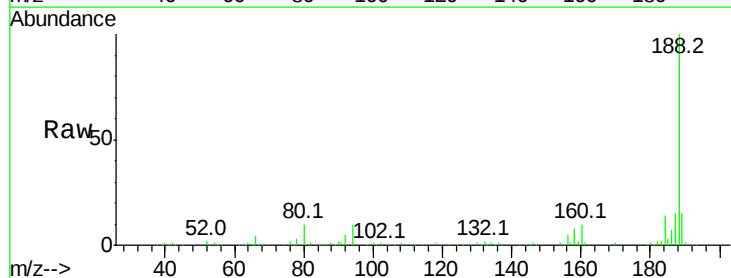
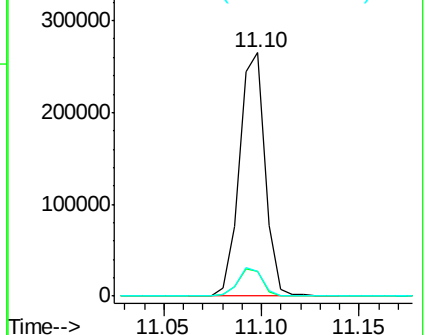
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.10 min Scan# 1549  
 Delta R.T. -0.01 min  
 Lab File: BF096900.D  
 Acq: 20 Jul 2017 11:02

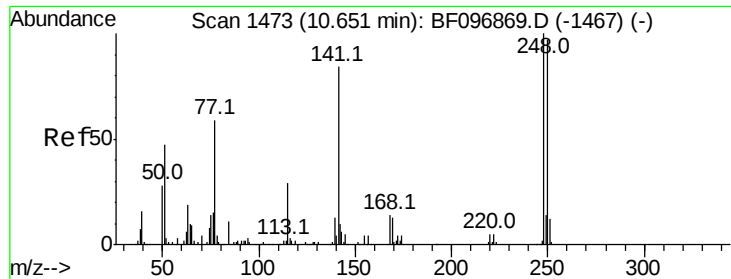
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.0  | 9.4   | 14.2  |
| 80      | 10.4  | 10.2  | 15.2  |

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

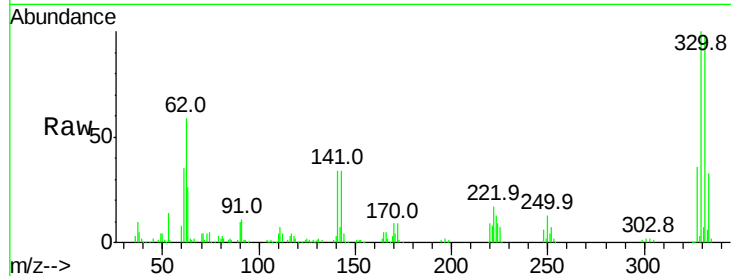




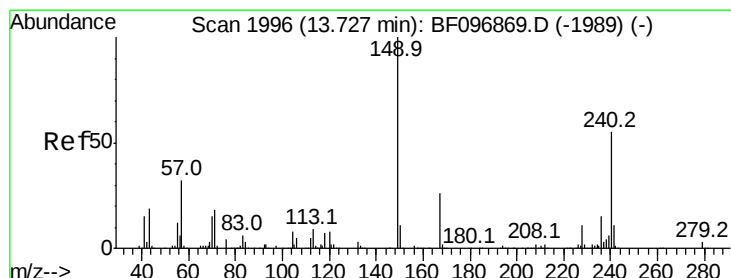
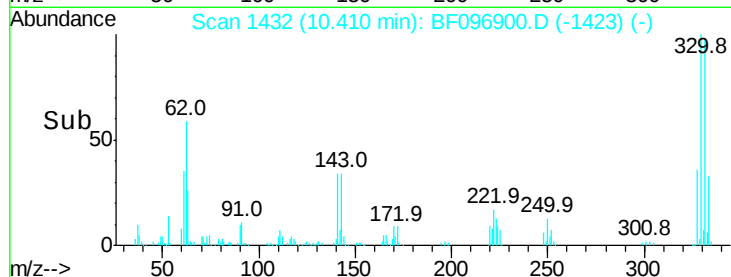
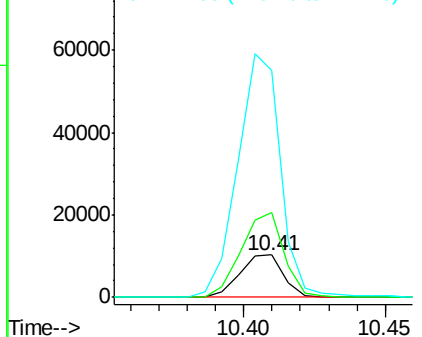
#66  
4-Bromophenyl-phenylether  
Concen: 4.421 ng  
RT: 10.41 min Scan# 1432  
Delta R.T. -0.25 min  
Lab File: BF096900.D  
Acq: 20 Jul 2017 11:02

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 10898  
Ion Ratio Lower Upper  
248 100  
250 198.3 76.8 115.2#  
141 533.4 68.6 103.0#

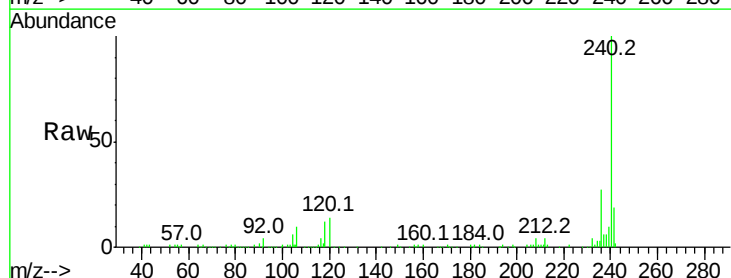


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

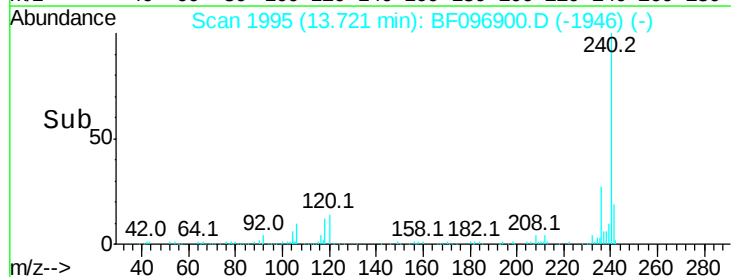
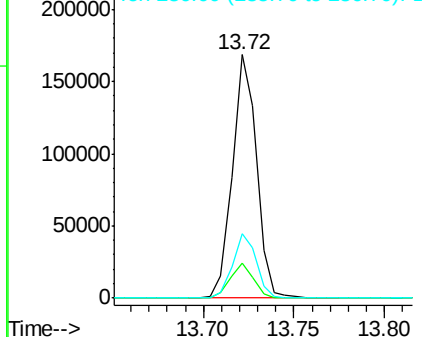


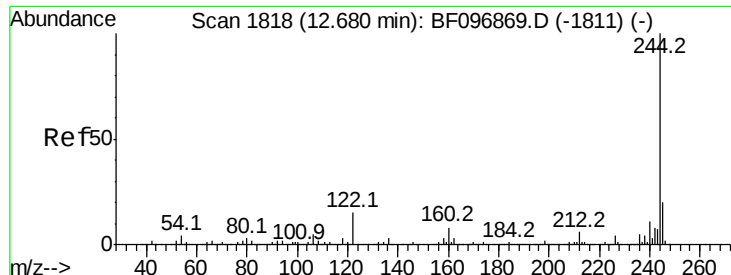
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.72 min Scan# 1995  
Delta R.T. -0.01 min  
Lab File: BF096900.D  
Acq: 20 Jul 2017 11:02

Tgt Ion:240 Resp: 156222  
Ion Ratio Lower Upper  
240 100  
120 14.2 5.8 8.8#  
236 26.6 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: 64.573 ng

RT: 12.68 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

Instrument :

BNA\_F

ClientSampleId :

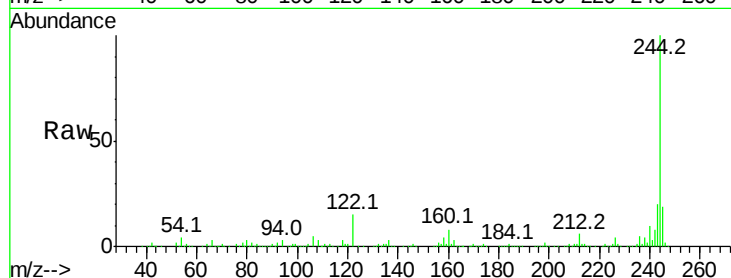
Tot Ion:244 Resp: 581674

Ion Ratio Lower Upper

244 100

212 6.4 6.0 9.0

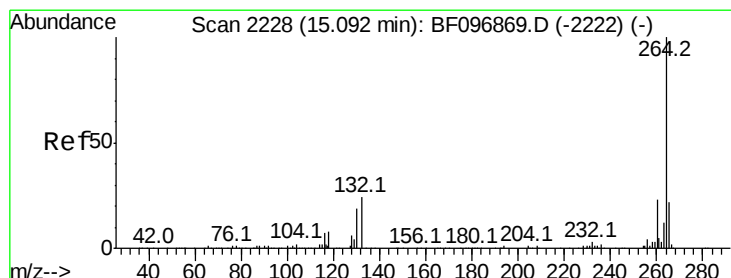
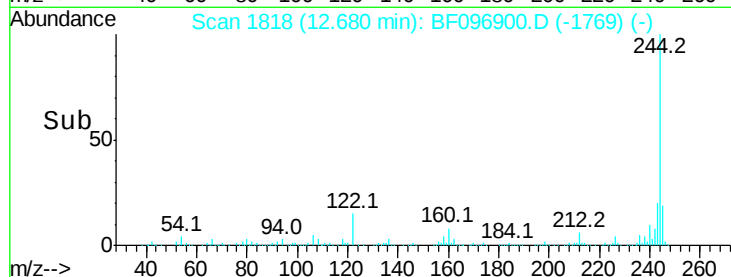
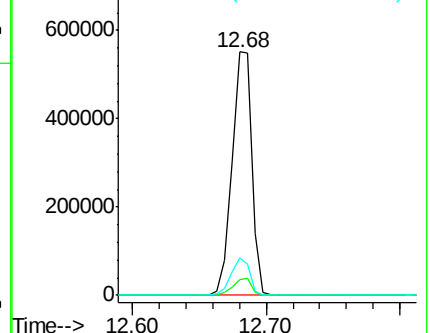
122 15.5 10.3 15.5



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: 15.10 min Scan# 2229

Delta R.T. -0.01 min

Lab File: BF096900.D

Acq: 20 Jul 2017 11:02

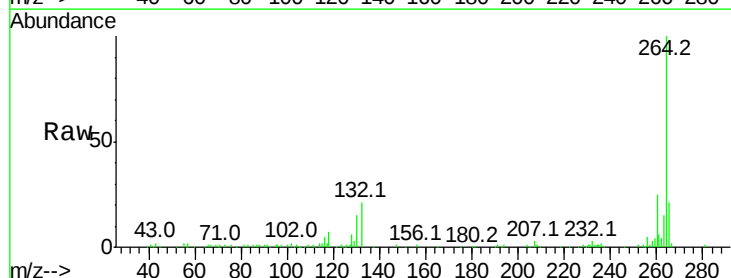
Tgt Ion:264 Resp: 108345

Ion Ratio Lower Upper

264 100

260 24.6 19.5 29.3

265 21.1 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

