

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\  
 Data File : BF104468.D  
 Acq On : 12 Apr 2018 22:57  
 Operator : JU/SJ  
 Sample : J2337-11  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 13 00:18:42 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 12 17:07:03 2018  
 Response via : Initial Calibration

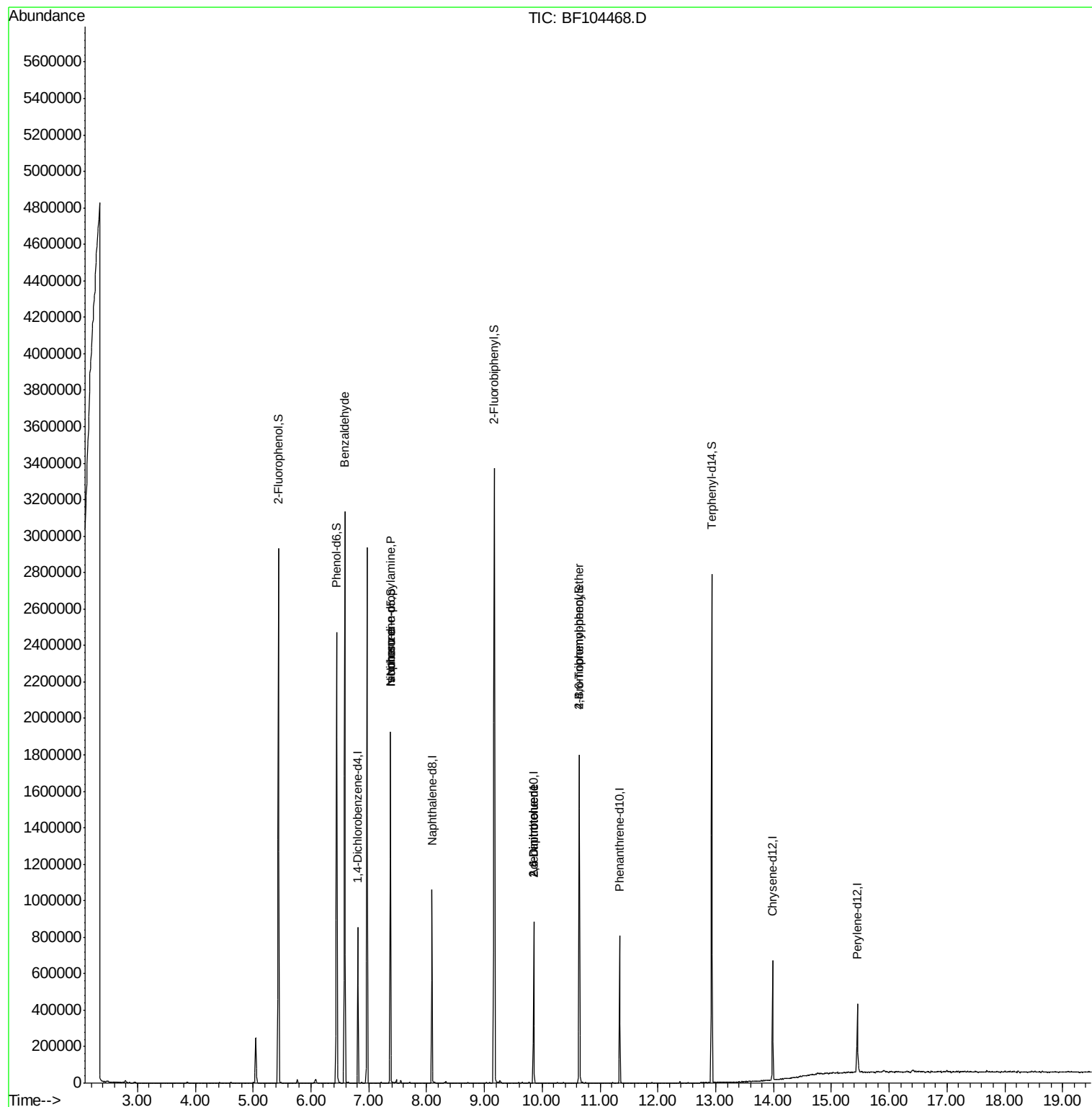
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.81  | 152  | 113803   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 439310   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.85  | 164  | 172185   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.34 | 188  | 268562   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.99 | 240  | 217392   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.45 | 264  | 157983   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 897673   | 120.61    | ng    | 0.02     |
| 7) Phenol-d6                   | 6.45  | 99   | 977345   | 106.88    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 726887   | 108.04    | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.65 | 330  | 235728   | 131.98    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 1197089  | 109.83    | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.93 | 244  | 996394   | 104.49    | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.59  | 77   | 21600    | 2.337     | ng    | 83       |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 96133    | 16.087    | ng    | # 73     |
| 25) Isophorone                 | 7.37  | 82   | 726877   | 51.092    | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 21629    | 8.609     | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 21629    | 6.563     | ng    | # 24     |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 14393    | 5.038     | ng    | # 1      |
| 76) Benizidine                 | 12.93 | 184  | 13175    | Below Cal | #     | 95       |

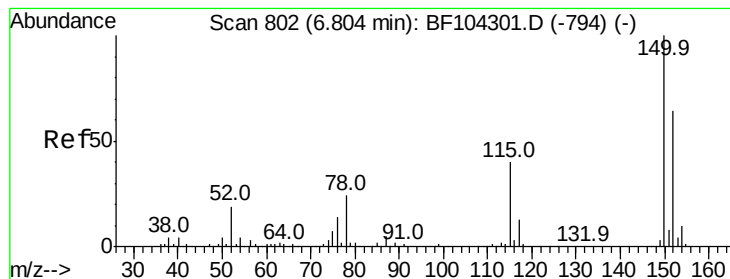
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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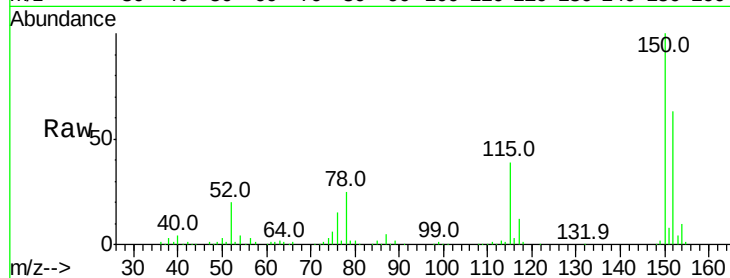


#1

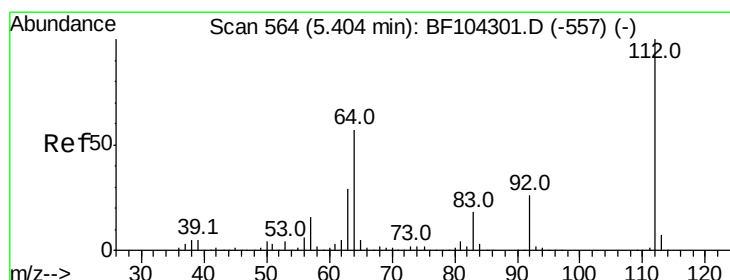
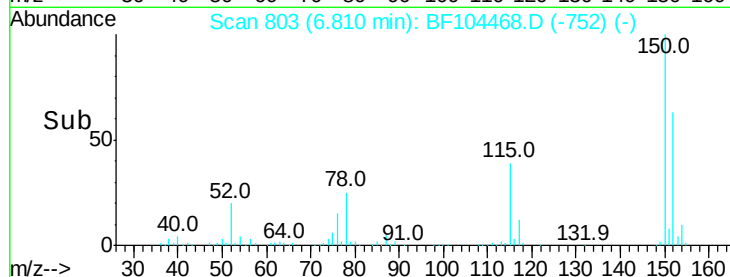
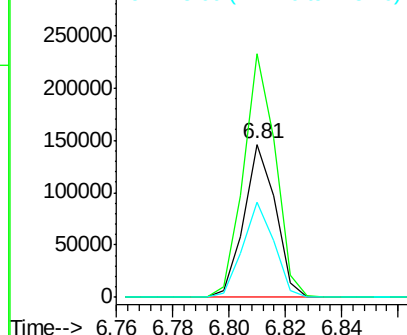
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.81 min Scan# 803  
 Delta R.T. 0.00 min  
 Lab File: BF104468.D  
 Acq: 12 Apr 2018 22:57

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 113803  
 Ion Ratio Lower Upper  
 152 100  
 150 159.2 124.6 186.8  
 115 61.9 50.1 75.1



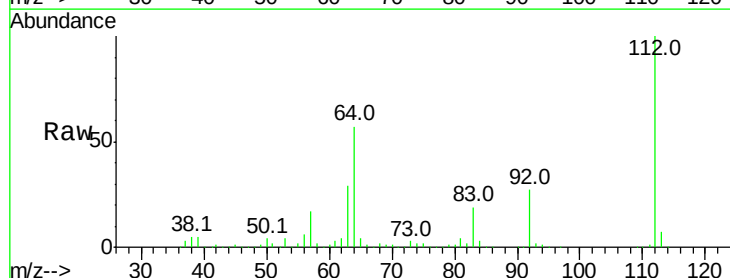
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



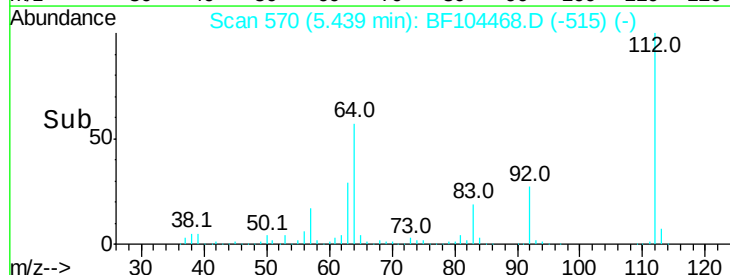
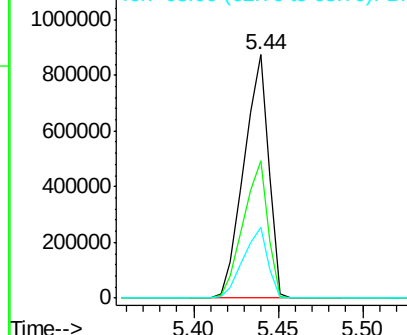
#5

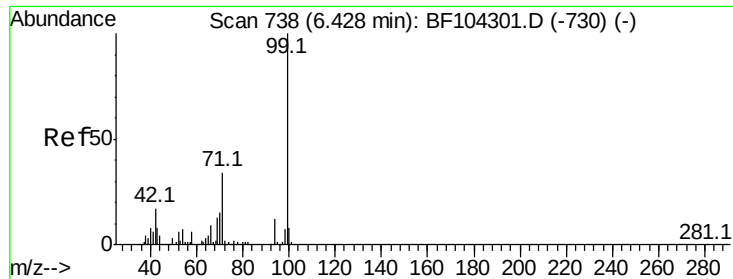
2-Fluorophenol  
 Concen: 120.611 ng  
 RT: 5.44 min Scan# 570  
 Delta R.T. 0.02 min  
 Lab File: BF104468.D  
 Acq: 12 Apr 2018 22:57

Tgt Ion:112 Resp: 897673  
 Ion Ratio Lower Upper  
 112 100  
 64 56.6 47.9 71.9  
 63 29.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF1  
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 106.876 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.00 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

Instrument :

BNA\_F

ClientSampleId :

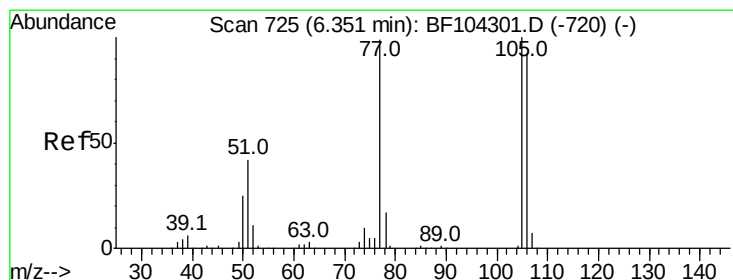
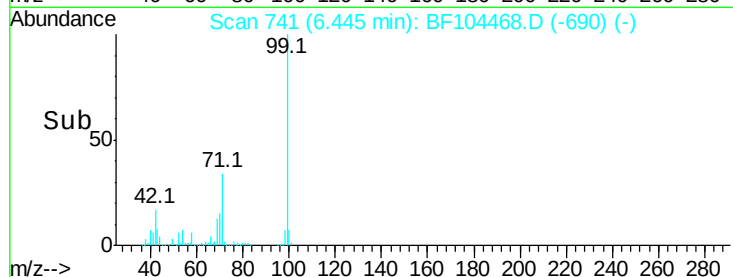
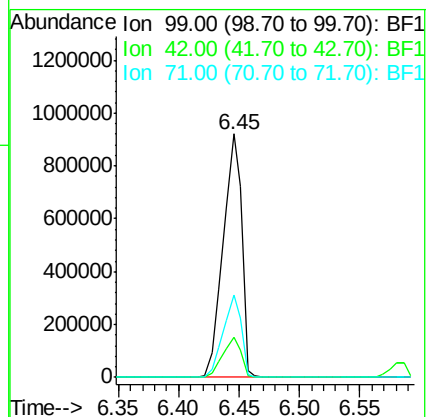
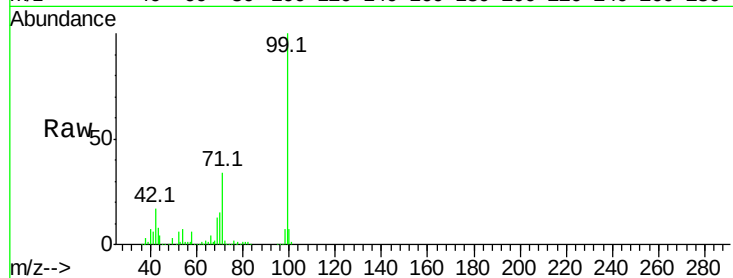
Tot Ion: 99 Resp: 977345

Ion Ratio Lower Upper

99 100

42 16.7 14.5 21.7

71 33.6 25.4 38.0



#9

Benzaldehyde

Concen: 2.337 ng

RT: 6.59 min Scan# 765

Delta R.T. 0.22 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

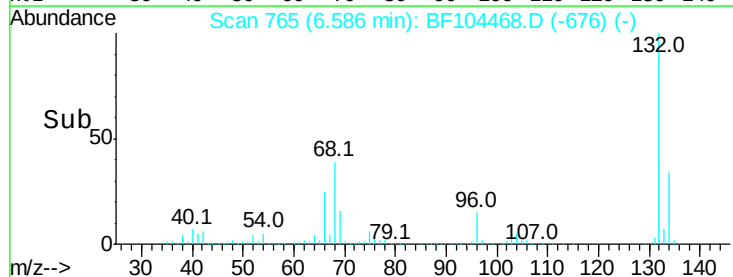
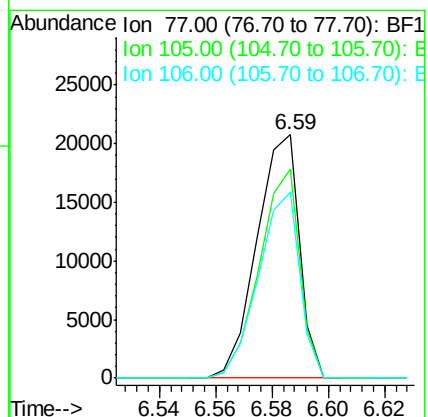
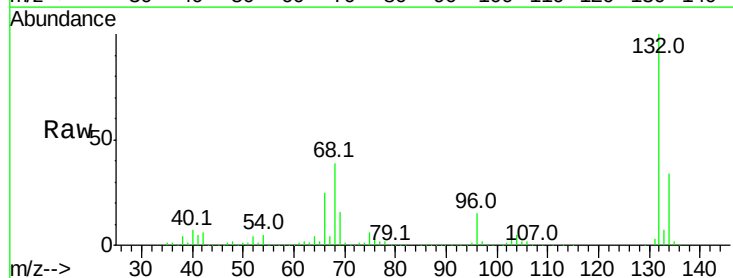
Tgt Ion: 77 Resp: 21600

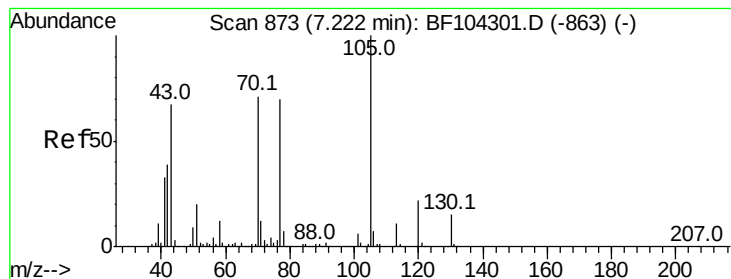
Ion Ratio Lower Upper

77 100

105 86.0 81.1 121.1

106 76.3 74.5 114.5





#19

n-Nitroso-di-n-propylamine

Concen: 16.087 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 96133

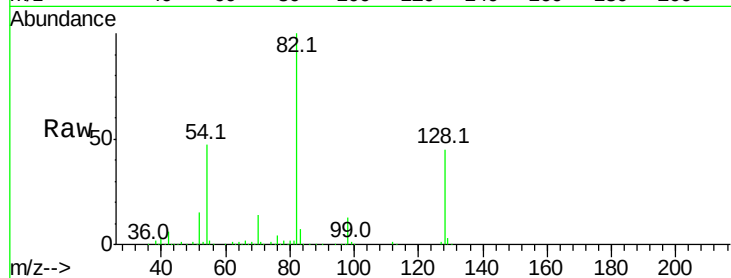
Ion Ratio Lower Upper

70 100

42 42.8 47.5 71.3#

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

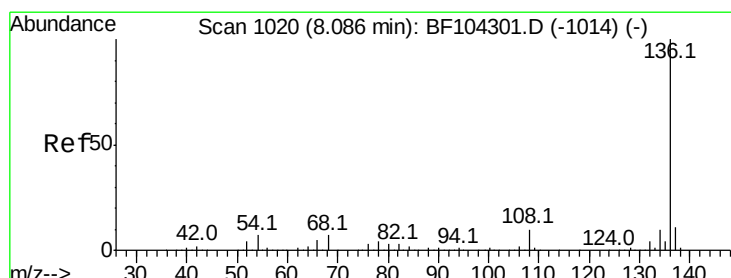
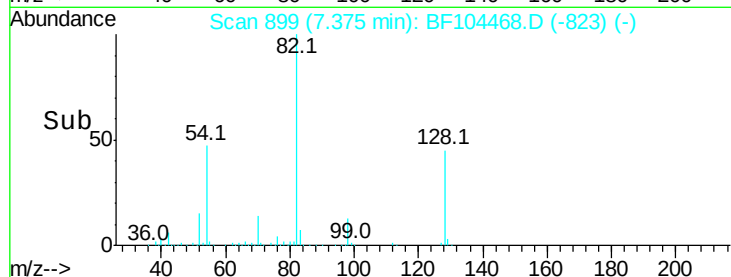
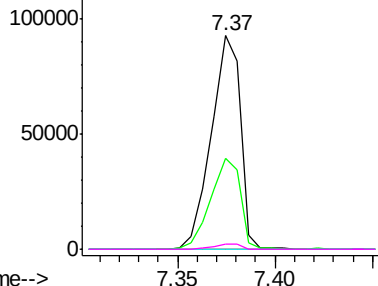


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

Tgt Ion:136 Resp: 439310

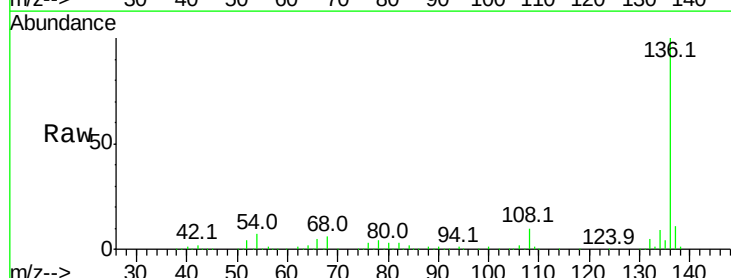
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 6.9 6.6 9.8

68 6.1 5.0 7.4

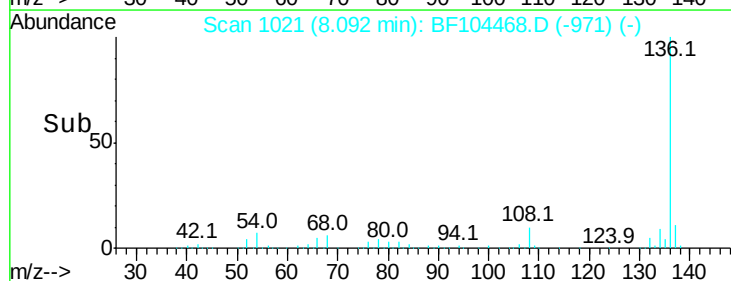
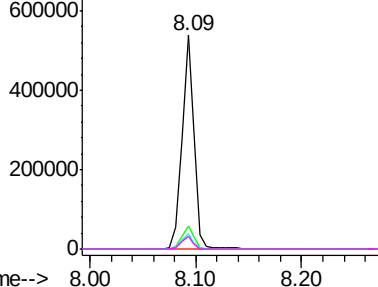


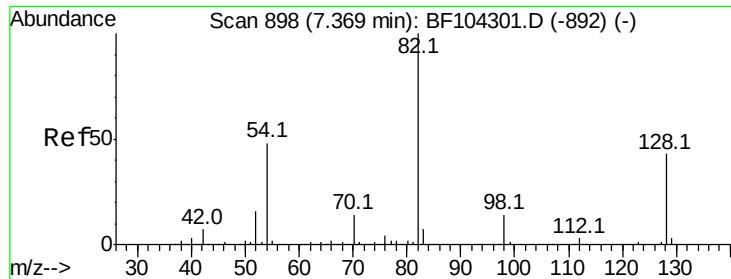
Abundance Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 108.043 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.01 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

Instrument :

BNA\_F

ClientSampleId :

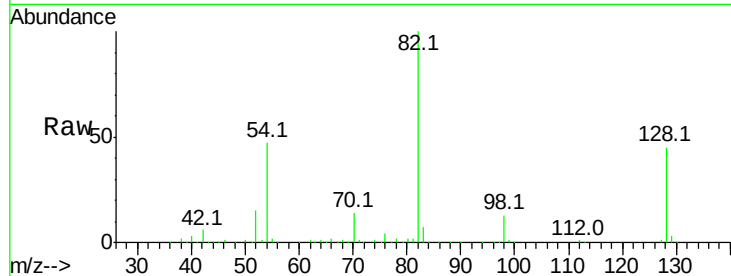
Tot Ion: 82 Resp: 726887

Ion Ratio Lower Upper

82 100

128 45.4 36.1 54.1

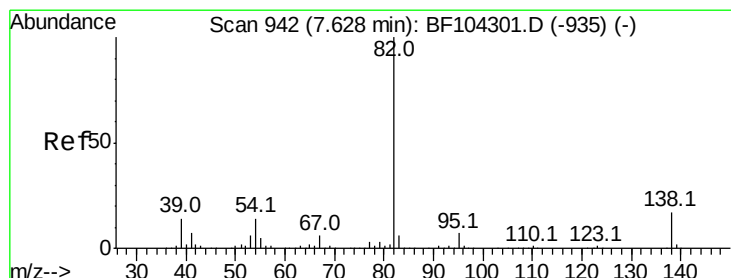
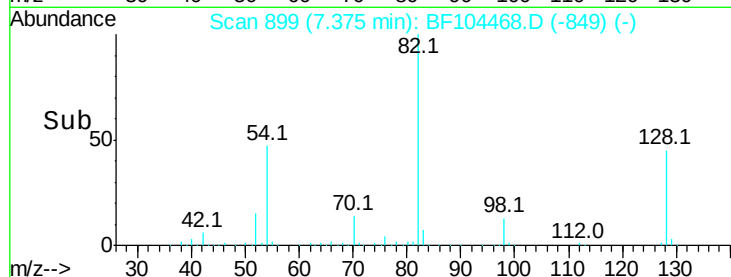
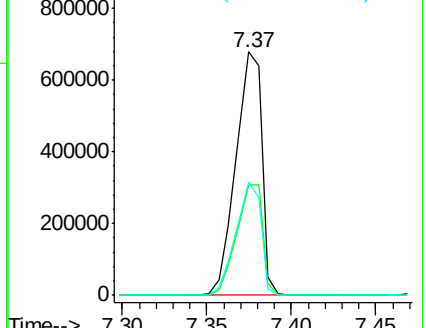
54 46.6 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 51.092 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

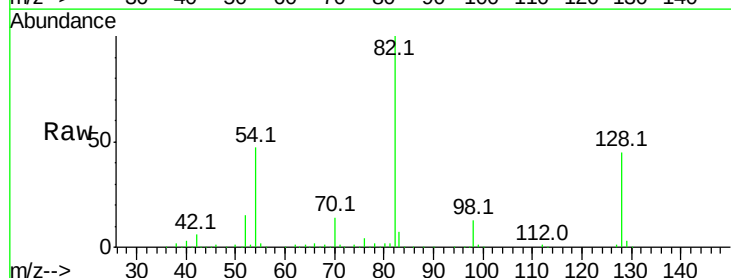
Tgt Ion: 82 Resp: 726877

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

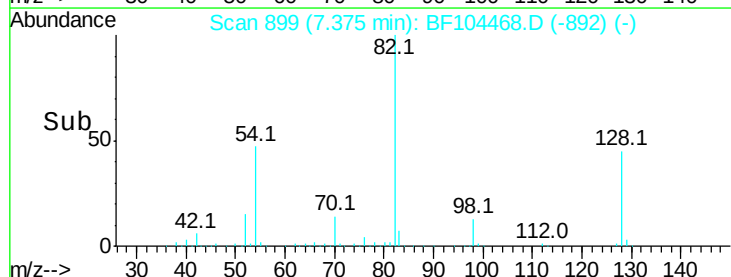
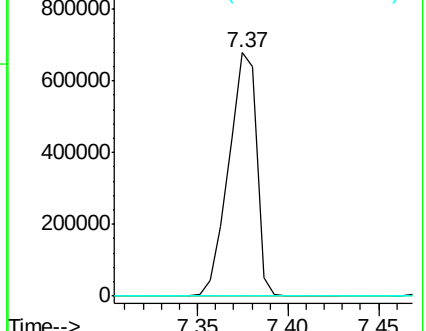
138 0.0 14.9 22.3#

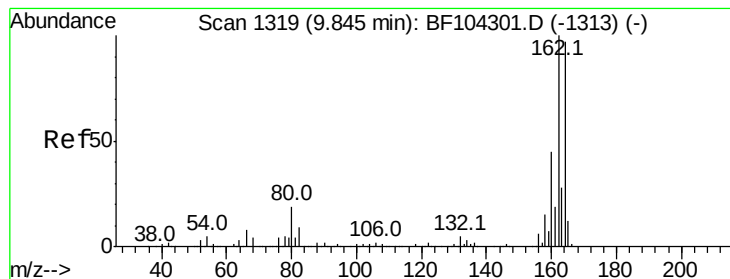


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.00 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

Instrument :

BNA\_F

ClientSampled :

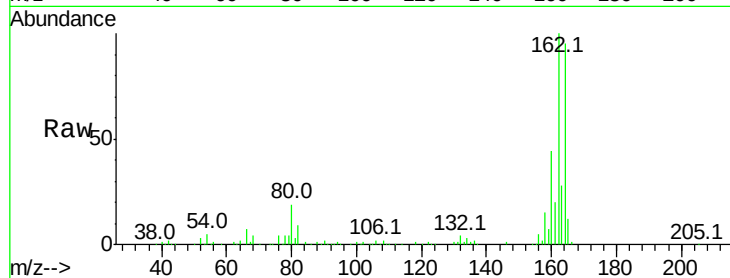
Tot Ion:164 Resp: 172185

Ion Ratio Lower Upper

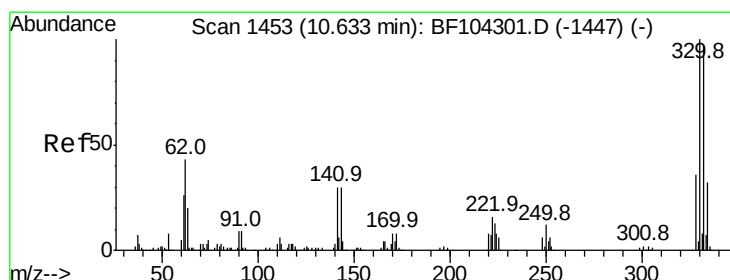
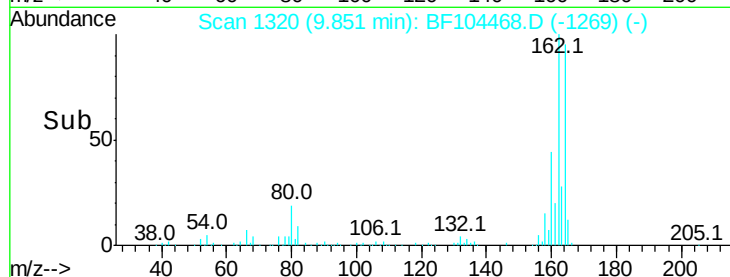
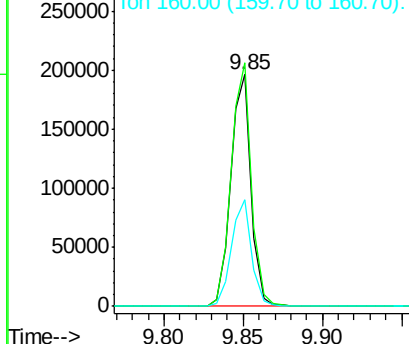
164 100

162 105.0 86.1 129.1

160 45.9 38.3 57.5



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: 131.978 ng

RT: 10.65 min Scan# 1455

Delta R.T. 0.00 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

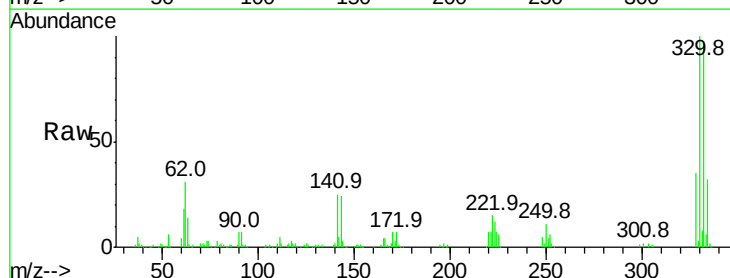
Tgt Ion:330 Resp: 235728

Ion Ratio Lower Upper

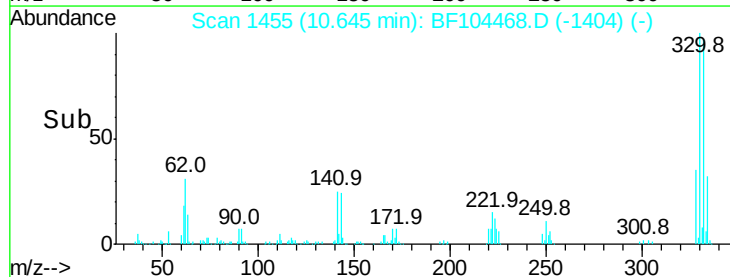
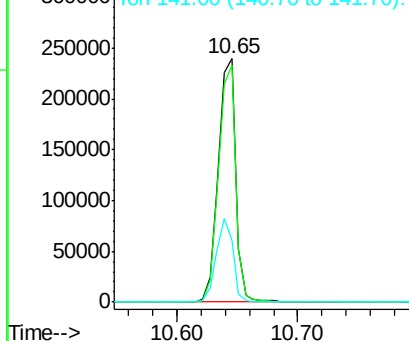
330 100

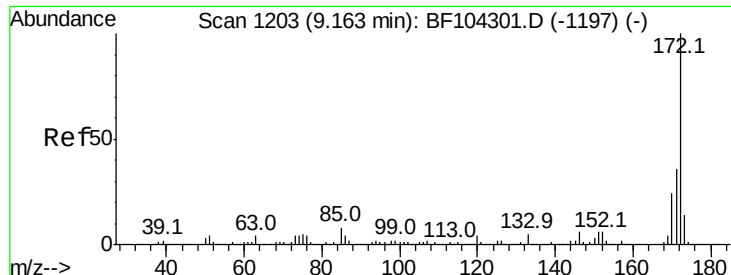
332 96.3 77.0 115.6

141 33.3 29.9 44.9



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



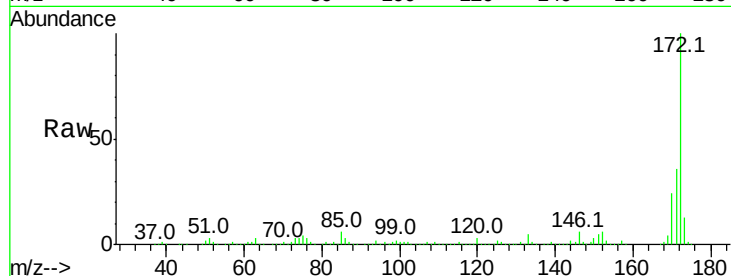


#44  
 2-Fluorobiphenyl  
 Concen: 109.830 ng  
 RT: 9.17 min Scan# 1205  
 Delta R.T. 0.00 min  
 Lab File: BF104468.D  
 Acq: 12 Apr 2018 22:57

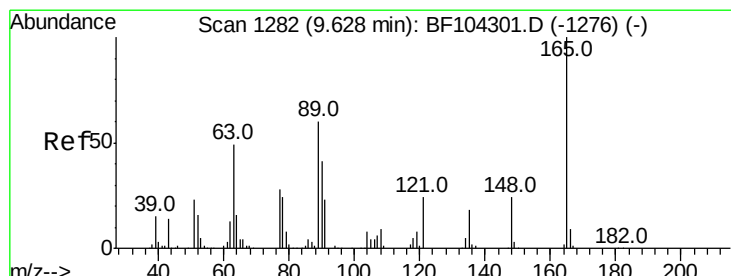
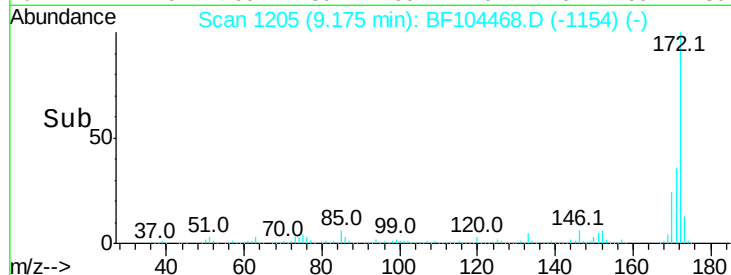
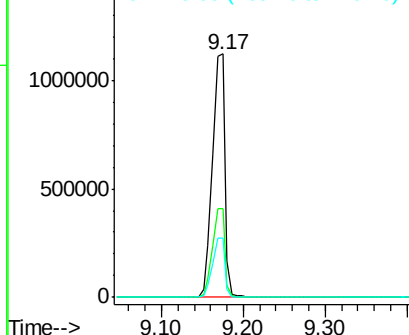
Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:172 Resp: 1197089  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.4  | 29.7  | 44.5  |
| 170 | 24.2  | 19.6  | 29.4  |



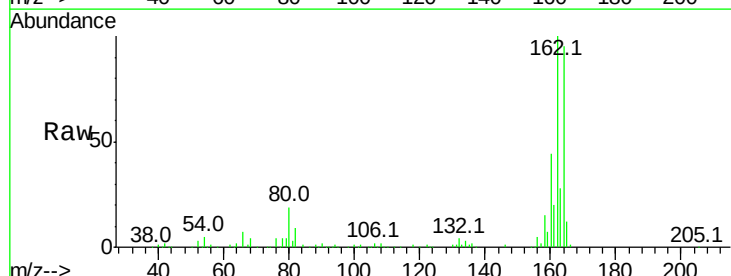
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E



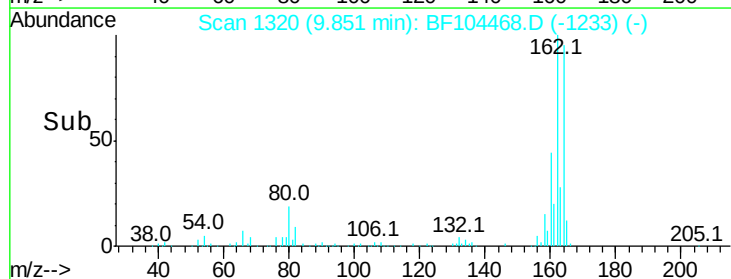
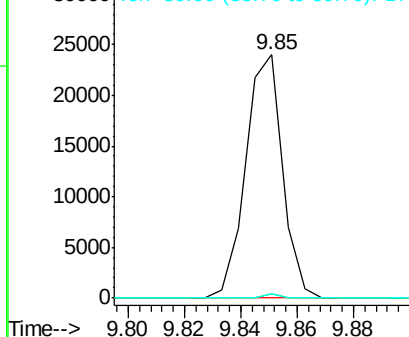
#50  
 2,6-Dinitrotoluene  
 Concen: 8.609 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. 0.21 min  
 Lab File: BF104468.D  
 Acq: 12 Apr 2018 22:57

Tgt Ion:165 Resp: 21629  

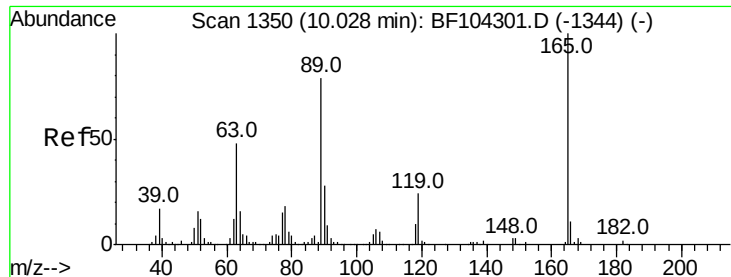
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.6   | 44.7  | 67.1# |
| 89  | 1.8   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1







#56

2,4-Dinitrotoluene

Concen: 6.563 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.19 min

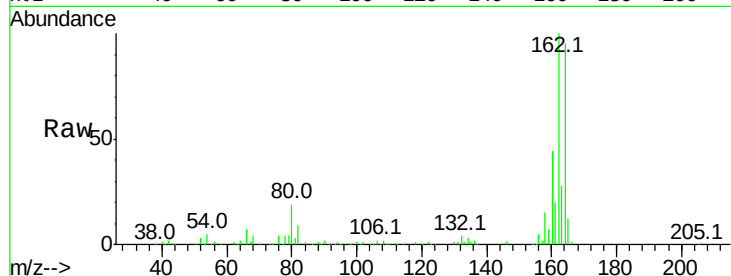
Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

Instrument :

BNA\_F

ClientSampleId :



Tot Ion:165 Resp: 21629

Ion Ratio Lower Upper

165 100

63 1.6 36.4 54.6#

89 1.8 57.8 86.6#

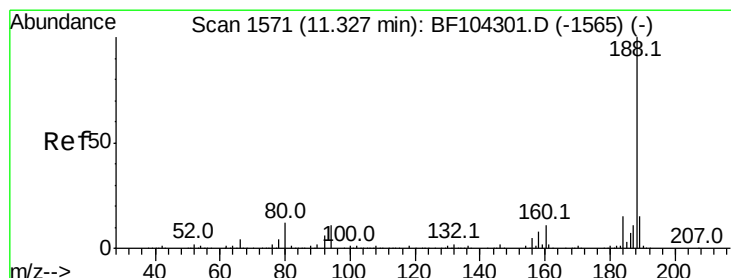
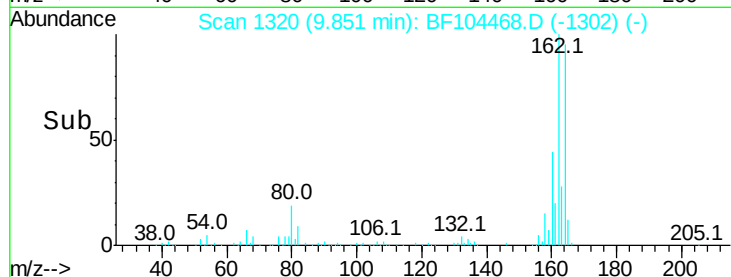
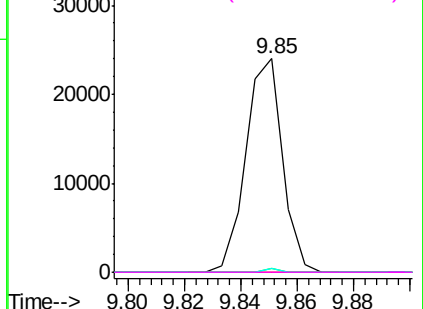
182 0.0 1.6 2.4#

Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. 0.00 min

Lab File: BF104468.D

Acq: 12 Apr 2018 22:57

Tgt Ion:188 Resp: 268562

Ion Ratio Lower Upper

188 100

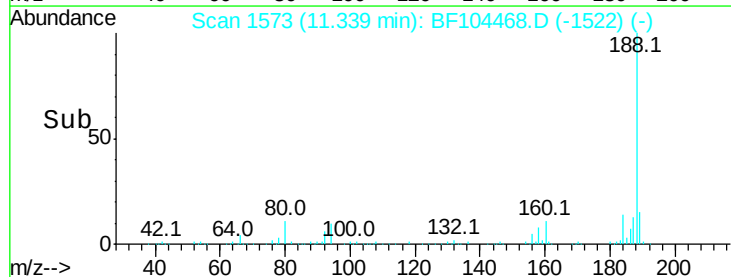
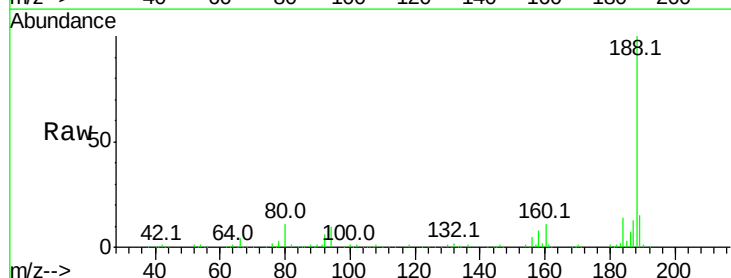
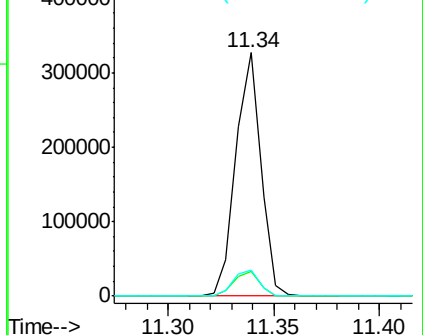
94 10.2 8.5 12.7

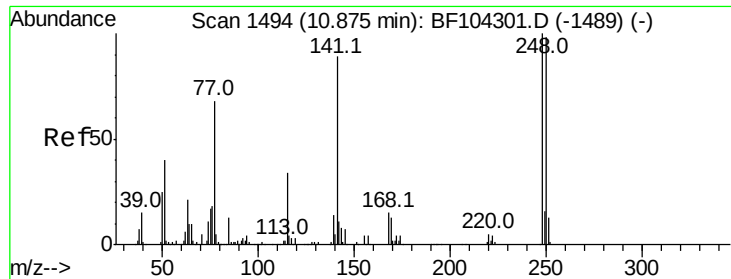
80 10.6 9.2 13.8

Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

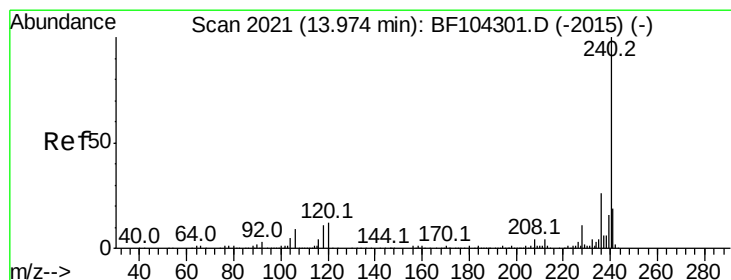
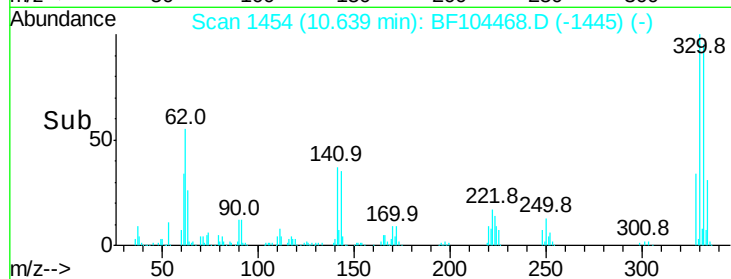
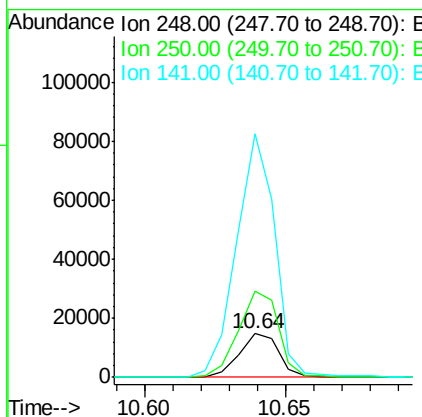
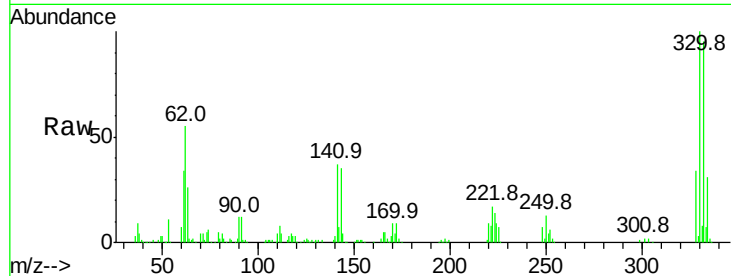




#66  
 4-Bromophenyl-phenylether  
 Concen: 5.038 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.25 min  
 Lab File: BF104468.D  
 Acq: 12 Apr 2018 22:57

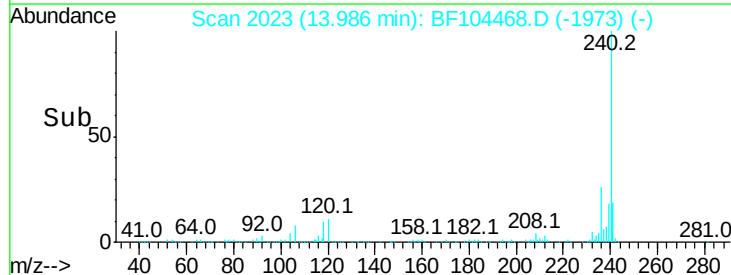
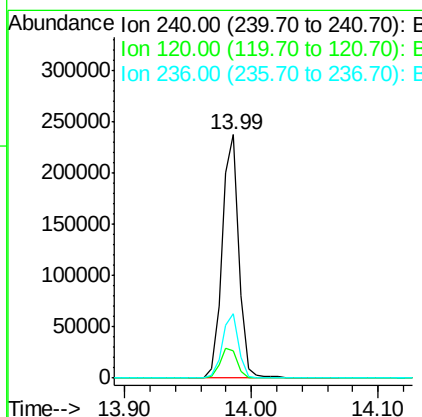
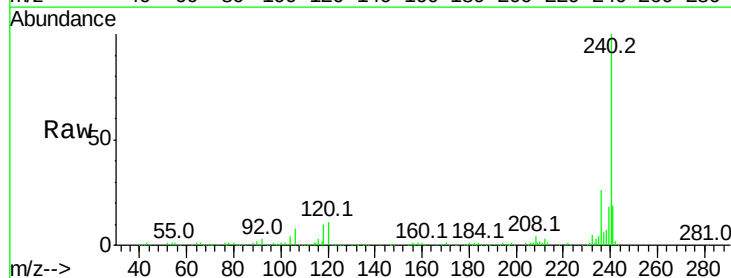
Instrument :  
 BNA\_F  
 ClientSampled :

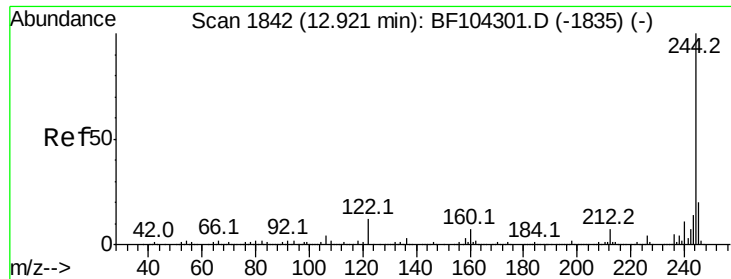
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 198.5 | 76.9  | 115.3# |
| 141     | 560.8 | 74.4  | 111.6# |



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.99 min Scan# 2023  
 Delta R.T. -0.01 min  
 Lab File: BF104468.D  
 Acq: 12 Apr 2018 22:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.2  | 9.5   | 14.3  |
| 236     | 26.3  | 20.7  | 31.1  |

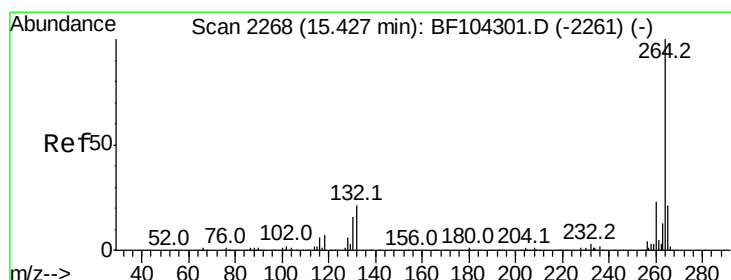
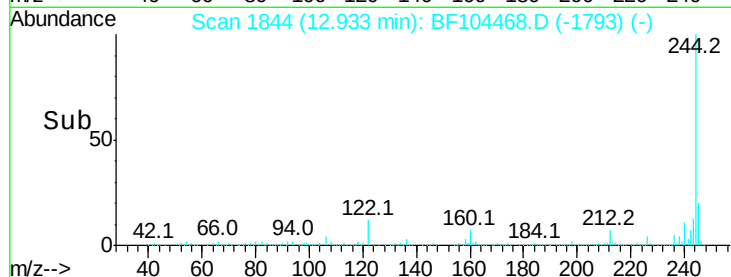
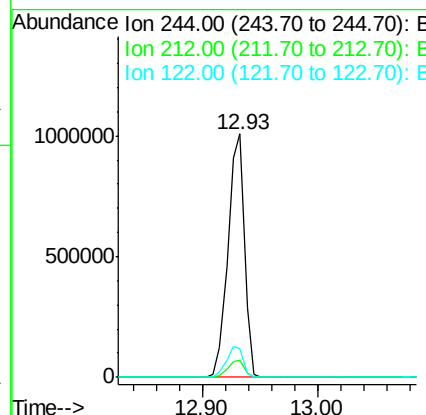
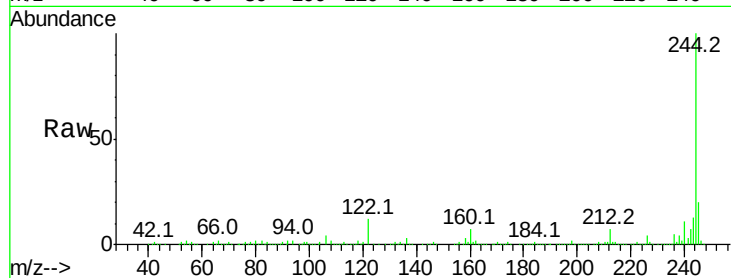




#78  
 Terphenyl-d14  
 Concen: 104.494 ng  
 RT: 12.93 min Scan# 1844  
 Delta R.T. 0.00 min  
 Lab File: BF104468.D  
 Acq: 12 Apr 2018 22:57

Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion:244 Resp: 996394  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.4 8.0  
 122 12.0 11.0 16.4



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.45 min Scan# 2272  
 Delta R.T. -0.01 min  
 Lab File: BF104468.D  
 Acq: 12 Apr 2018 22:57

Tgt Ion:264 Resp: 157983  
 Ion Ratio Lower Upper  
 264 100  
 260 23.2 19.2 28.8  
 265 22.0 17.5 26.3

