

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121818\  
 Data File : BF111584.D  
 Acq On : 18 Dec 2018 19:18  
 Operator : JU/SJ  
 Sample : PB115777BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB115777BL

Quant Time: Dec 19 00:00:31 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 14 13:26:17 2018  
 Response via : Initial Calibration

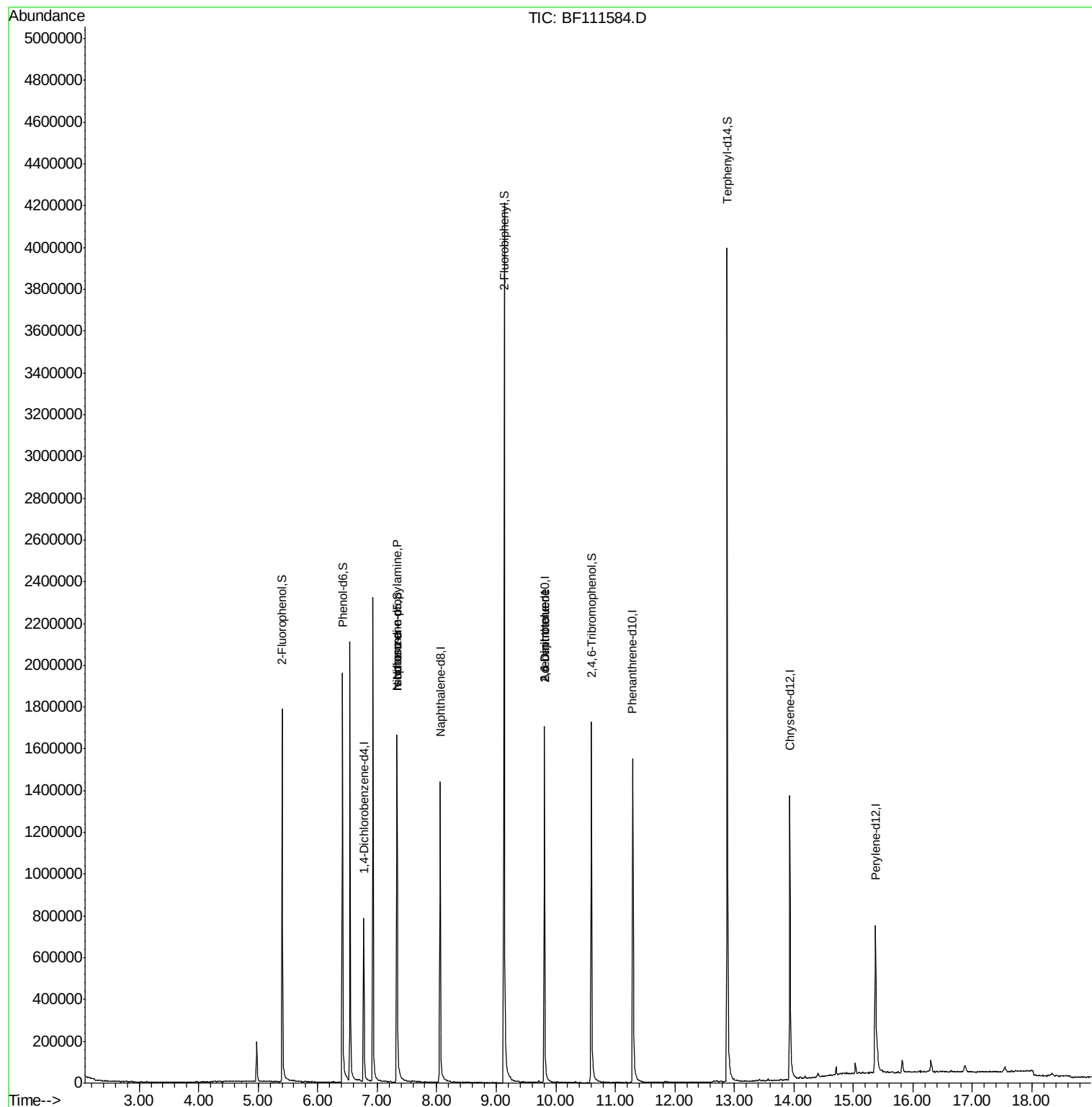
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.77  | 152  | 130390   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.06  | 136  | 769758   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.81  | 164  | 386608   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.29 | 188  | 765001   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 13.93 | 240  | 573849   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.37 | 264  | 418163   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.40  | 112  | 515025   | 65.73  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.42  | 99   | 662279   | 63.54  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.33  | 82   | 616552   | 47.70  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.60 | 330  | 217461   | 62.79  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.13  | 172  | 1655961  | 66.16  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.88 | 244  | 1644993  | 67.31  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70   | 77966    | 11.338 | ng    | # 79     |
| 25) Isophorone                 | 7.33  | 82   | 616549   | 28.189 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene         | 9.81  | 165  | 48457    | 7.732  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 9.81  | 165  | 49058    | 5.964  | ng    | # 25     |

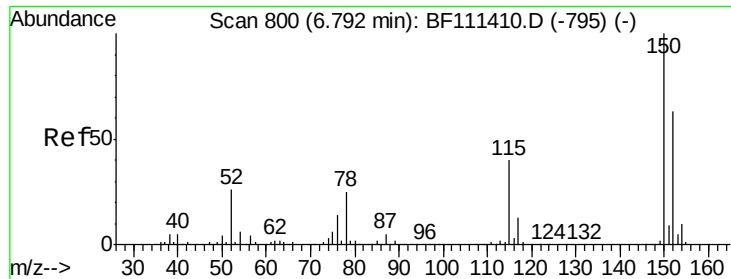
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121818\  
Data File : BF111584.D  
Acq On : 18 Dec 2018 19:18  
Operator : JU/SJ  
Sample : PB115777BL  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB115777BL

Quant Time: Dec 19 00:00:31 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 14 13:26:17 2018  
Response via : Initial Calibration



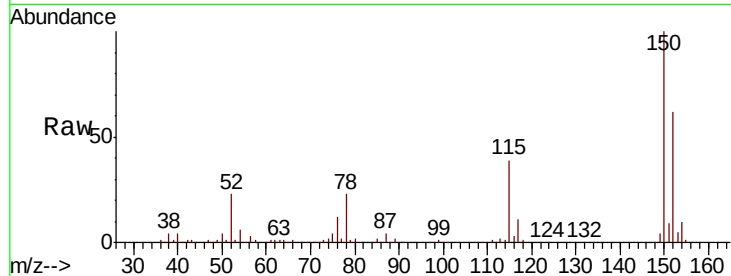


#1

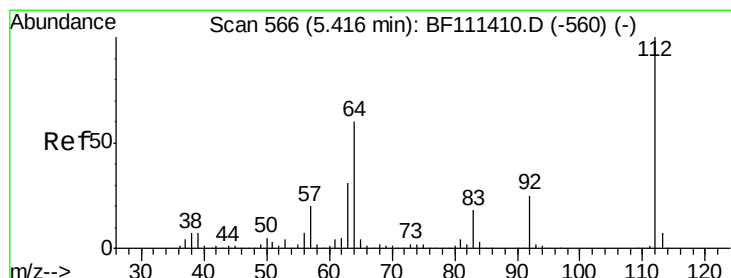
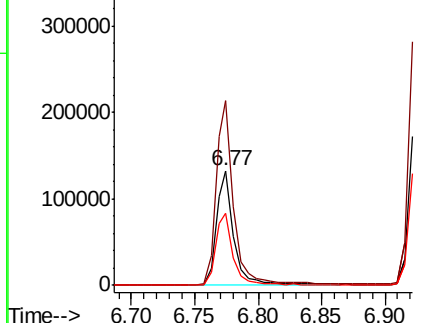
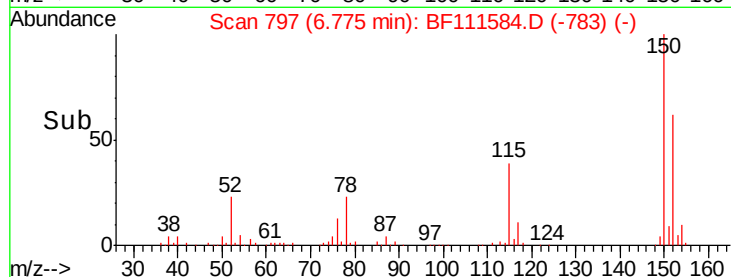
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.77 min Scan# 797  
 Delta R.T. -0.02 min  
 Lab File: BF111584.D  
 Acq: 18 Dec 2018 19:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB115777BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.1 | 126.6 | 189.8 |
| 115     | 62.2  | 50.7  | 76.1  |



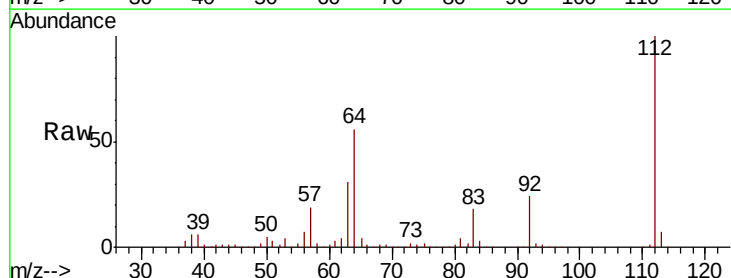
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



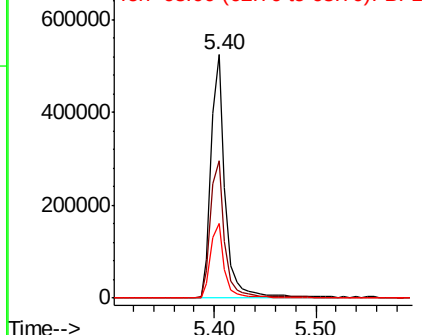
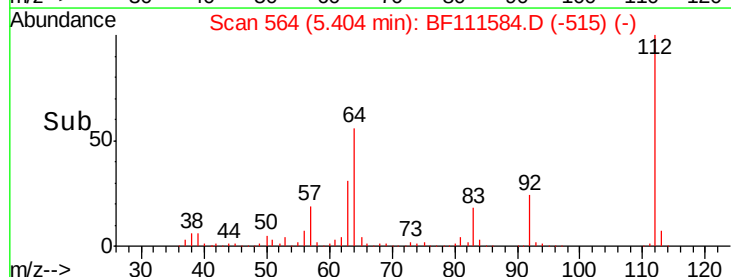
#5

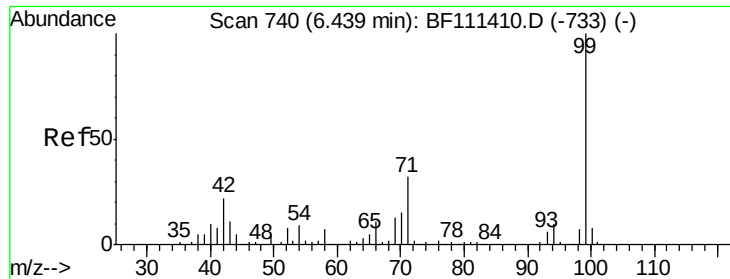
2-Fluorophenol  
 Concen: 65.728 ng  
 RT: 5.40 min Scan# 564  
 Delta R.T. -0.01 min  
 Lab File: BF111584.D  
 Acq: 18 Dec 2018 19:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.5  | 51.8  | 77.6  |
| 63      | 30.5  | 26.8  | 40.2  |



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: 63.541 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.02 min

Lab File: BF111584.D

Acq: 18 Dec 2018 19:18

Instrument :

BNA\_F

ClientSampleId :

PB115777BL

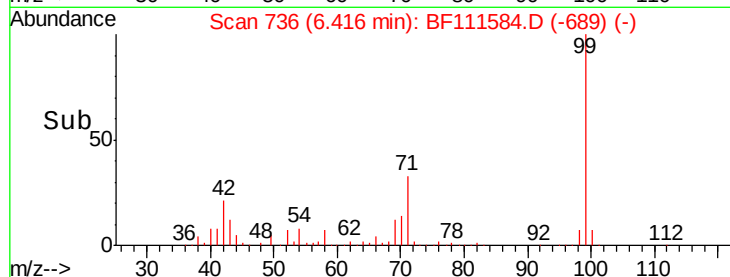
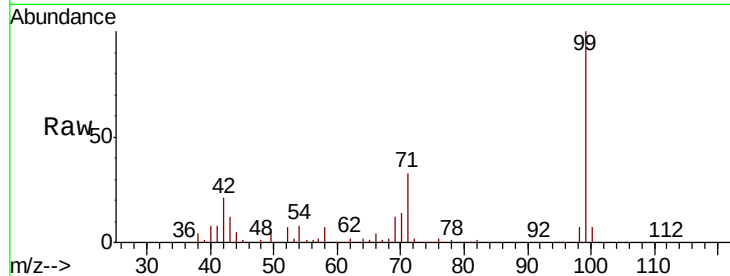
Tgt Ion: 99 Resp: 662279

Ion Ratio Lower Upper

99 100

42 21.2 17.4 26.0

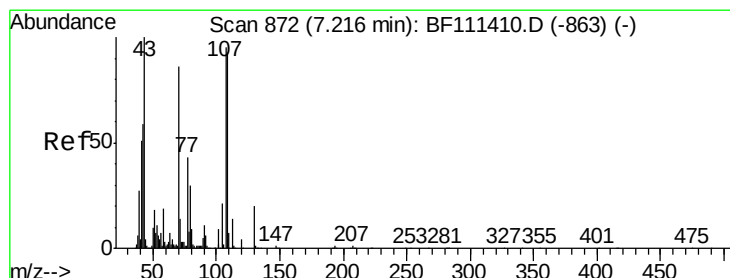
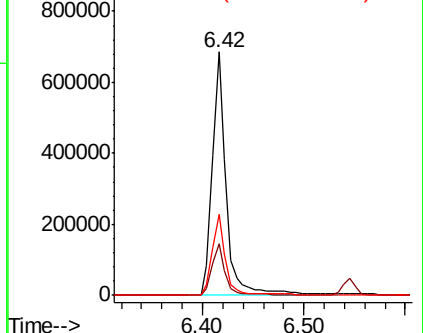
71 33.1 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.338 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.12 min

Lab File: BF111584.D

Acq: 18 Dec 2018 19:18

Tgt Ion: 70 Resp: 77966

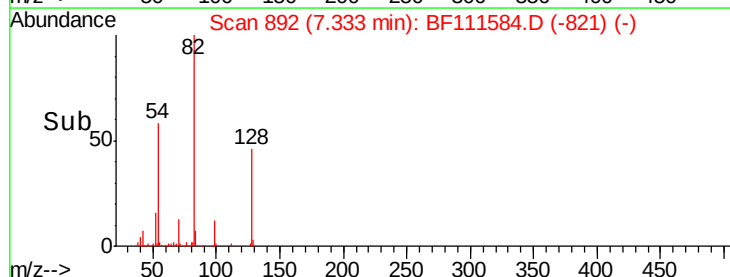
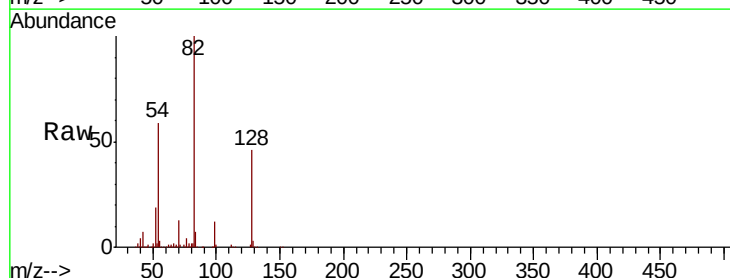
Ion Ratio Lower Upper

70 100

42 56.4 53.2 79.8

101 0.0 8.2 12.4#

130 2.5 18.1 27.1#

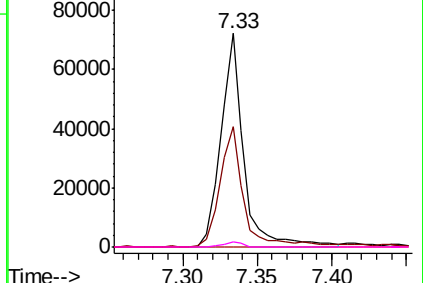


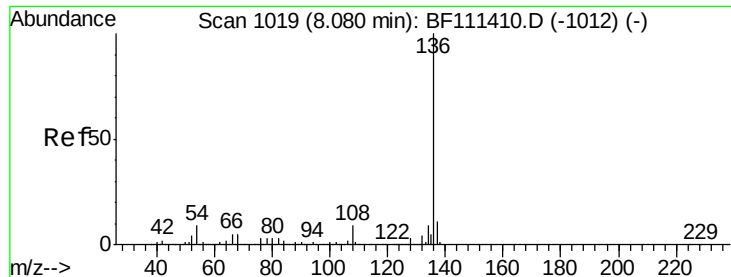
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

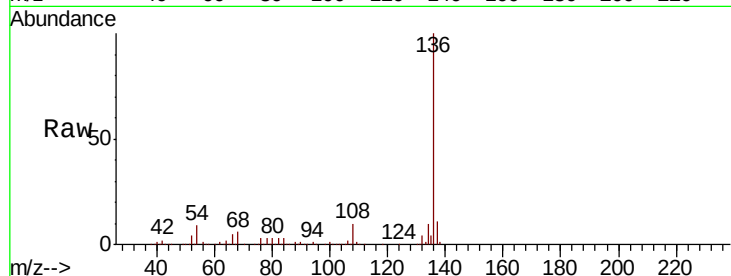




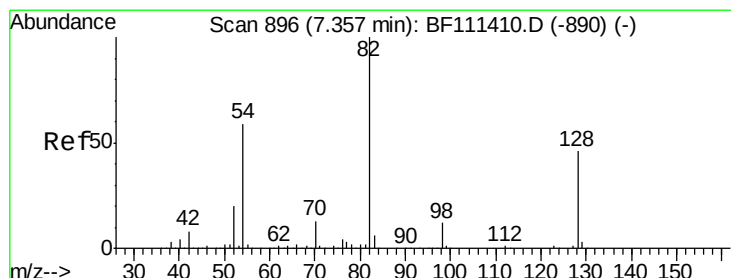
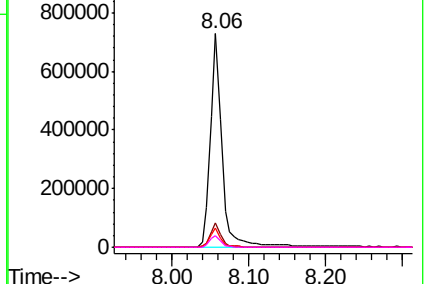
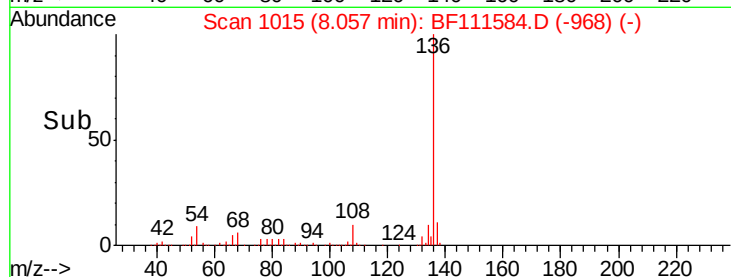
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.06 min Scan# 1015  
Delta R.T. -0.02 min  
Lab File: BF111584.D  
Acq: 18 Dec 2018 19:18

Instrument :  
BNA\_F  
ClientSampleId :  
PB115777BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 769758 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 9.1   | 13.7   |
| 54       | 9.1   | 7.7   | 11.5   |
| 68       | 5.6   | 4.9   | 7.3    |

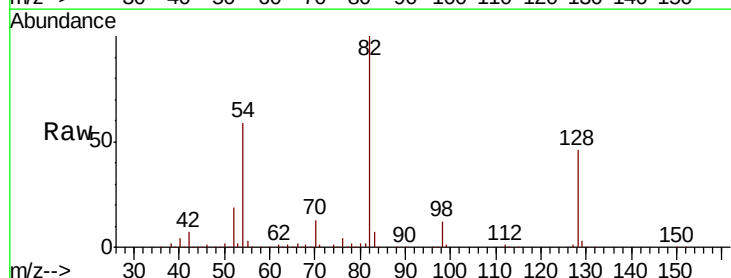


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

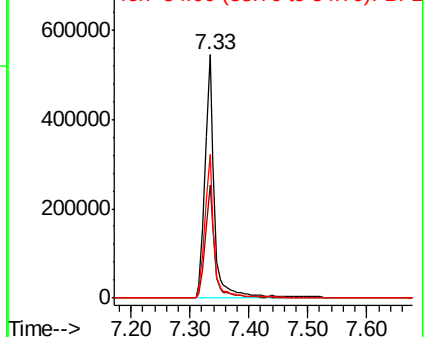
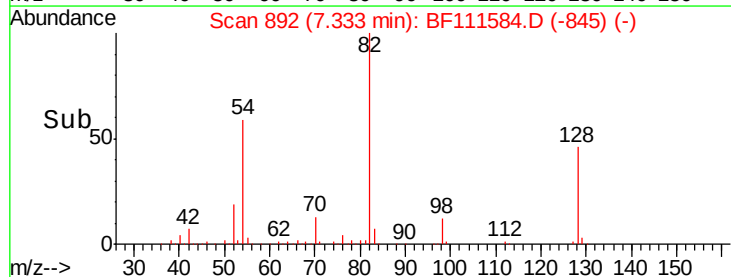


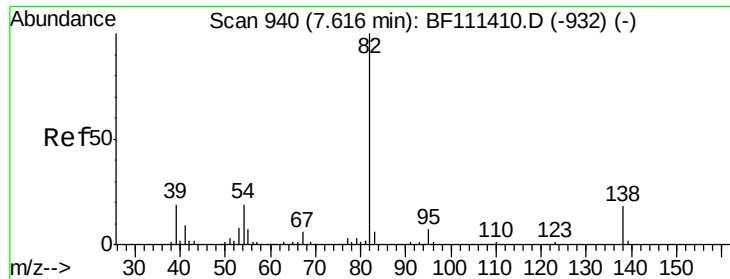
#23  
Nitrobenzene-d5  
Concen: 47.697 ng  
RT: 7.33 min Scan# 892  
Delta R.T. -0.02 min  
Lab File: BF111584.D  
Acq: 18 Dec 2018 19:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 616552 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.3  | 37.4  | 56.2   |
| 54       | 58.9  | 47.6  | 71.4   |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 28.189 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.28 min

Lab File: BF111584.D

Acq: 18 Dec 2018 19:18

Instrument :

BNA\_F

ClientSampleId :

PB115777BL

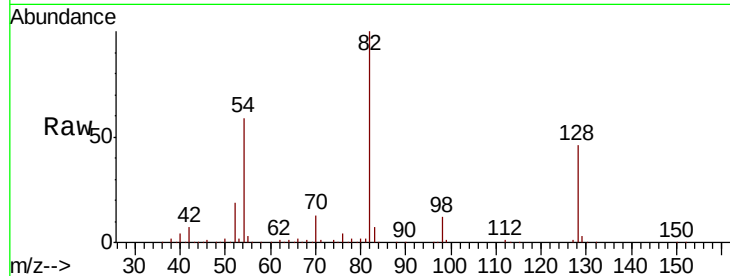
Tgt Ion: 82 Resp: 616549

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

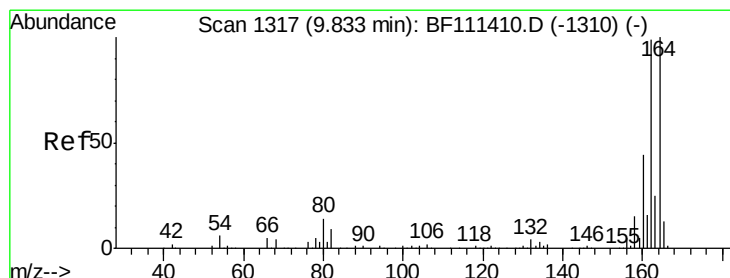
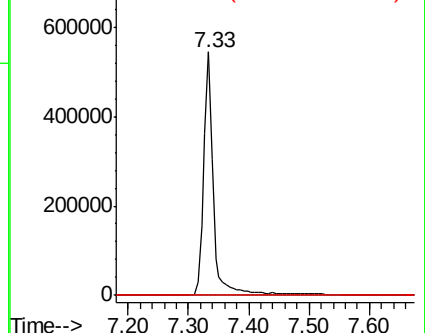
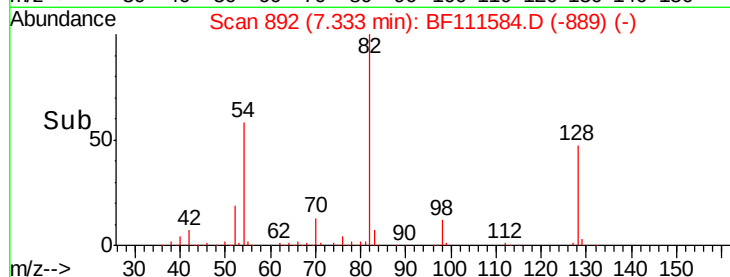
138 0.0 15.1 22.7#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.81 min Scan# 1313

Delta R.T. -0.02 min

Lab File: BF111584.D

Acq: 18 Dec 2018 19:18

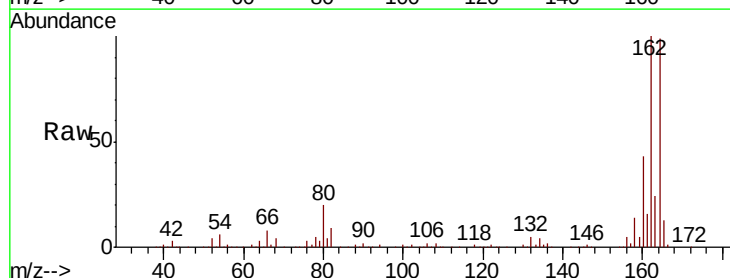
Tgt Ion: 164 Resp: 386608

Ion Ratio Lower Upper

164 100

162 101.0 81.4 122.0

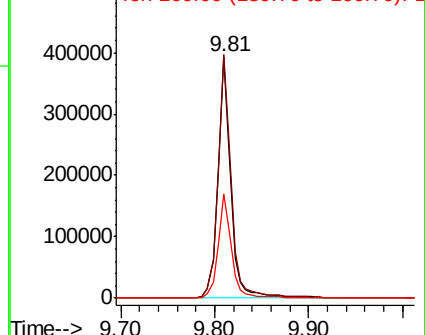
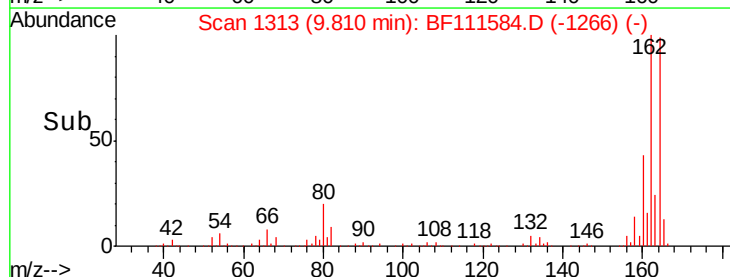
160 43.4 35.7 53.5

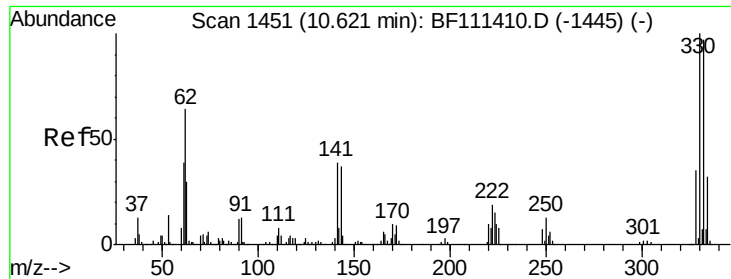


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

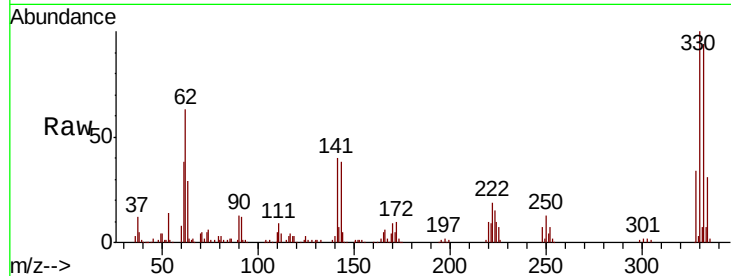




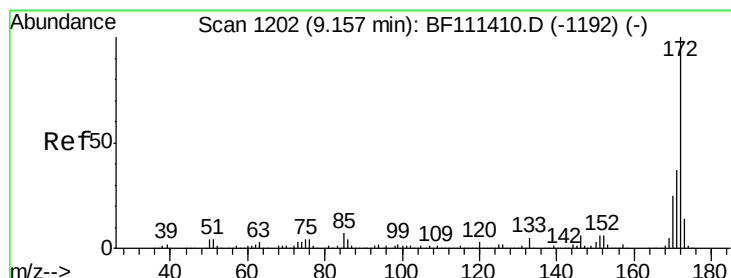
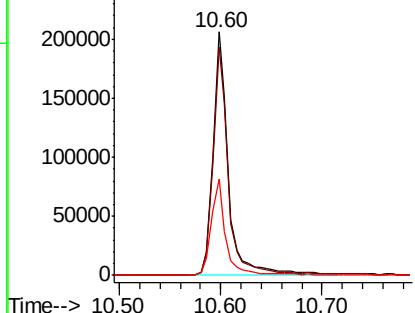
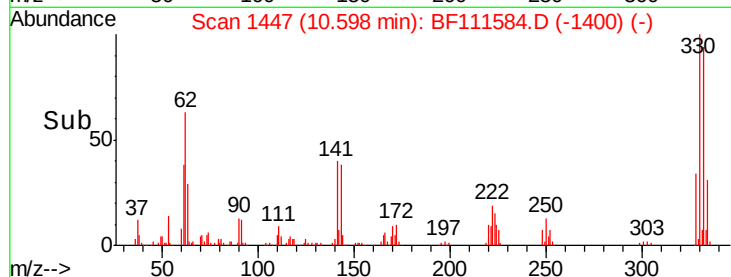
#42  
 2,4,6-Tribromophenol  
 Concen: 62.792 ng  
 RT: 10.60 min Scan# 1447  
 Delta R.T. -0.02 min  
 Lab File: BF111584.D  
 Acq: 18 Dec 2018 19:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB115777BL

Tgt Ion: 330 Resp: 217461  
 Ion Ratio Lower Upper  
 330 100  
 332 92.8 76.0 114.0  
 141 37.6 31.0 46.6

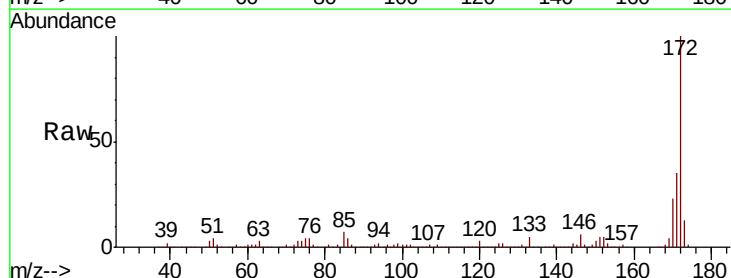


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

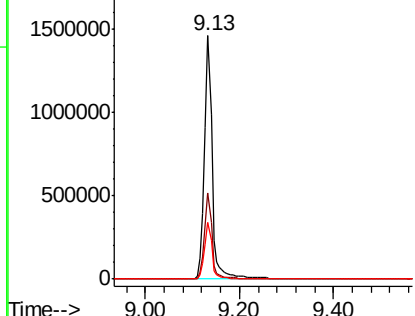
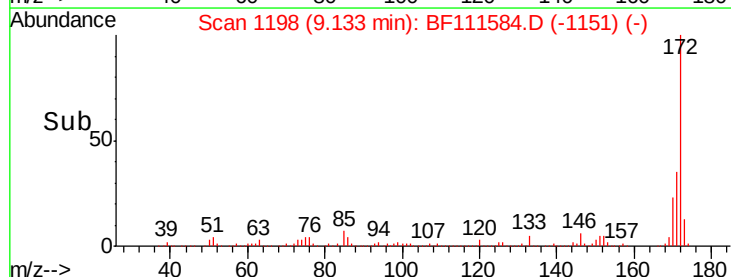


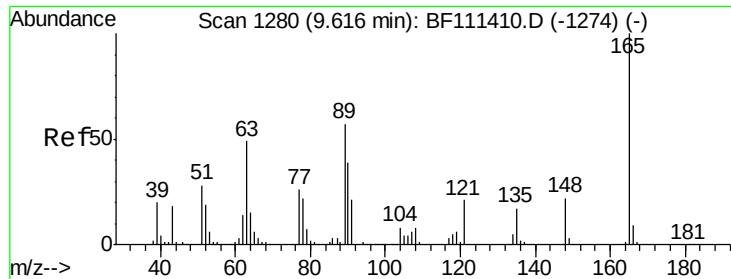
#45  
 2-Fluorobiphenyl  
 Concen: 66.162 ng  
 RT: 9.13 min Scan# 1198  
 Delta R.T. -0.02 min  
 Lab File: BF111584.D  
 Acq: 18 Dec 2018 19:18

Tgt Ion: 172 Resp: 1655961  
 Ion Ratio Lower Upper  
 172 100  
 171 35.4 33.0 49.4  
 170 23.2 22.3 33.5



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

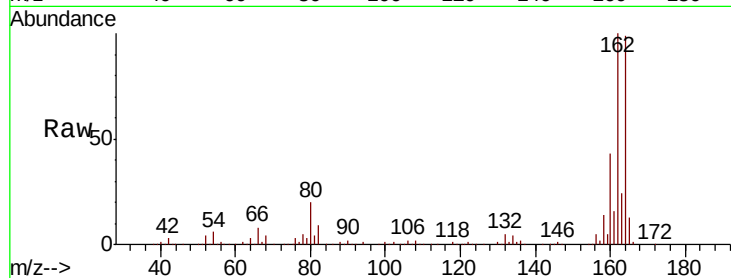




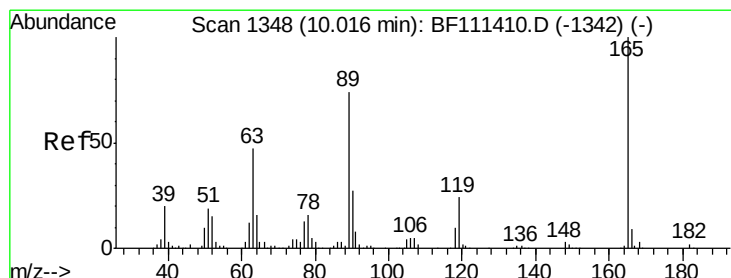
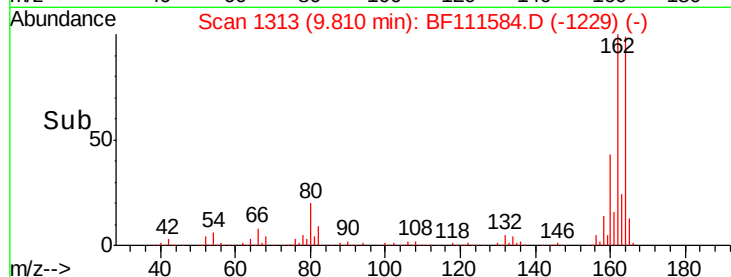
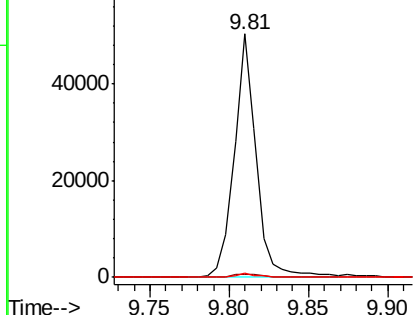
#51  
 2,6-Dinitrotoluene  
 Concen: 7.732 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. 0.19 min  
 Lab File: BF111584.D  
 Acq: 18 Dec 2018 19:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB115777BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 40.5  | 60.7# |
| 89      | 1.5   | 40.0  | 60.0# |



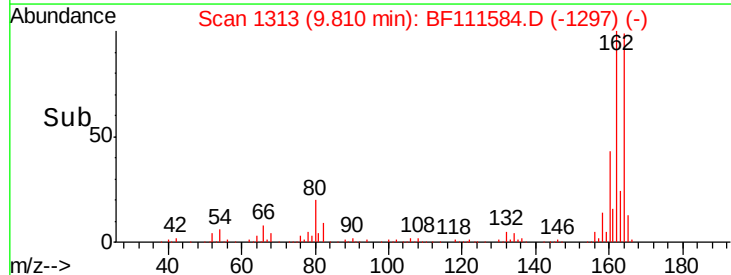
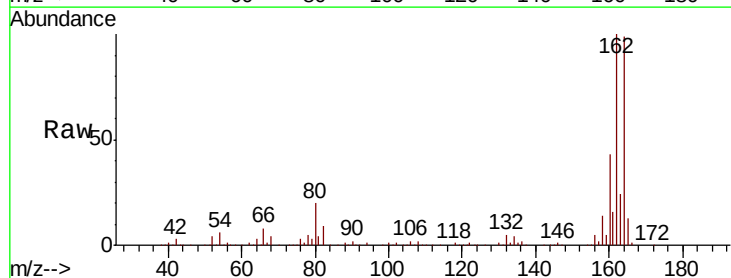
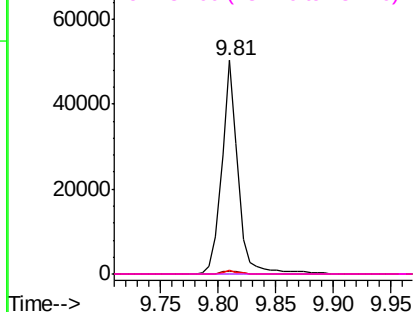
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1



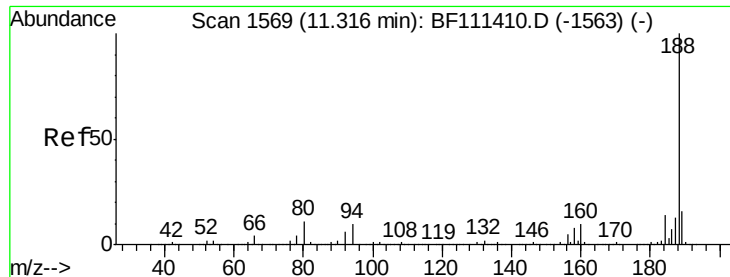
#57  
 2,4-Dinitrotoluene  
 Concen: 5.964 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. -0.21 min  
 Lab File: BF111584.D  
 Acq: 18 Dec 2018 19:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 34.6  | 52.0# |
| 89      | 1.5   | 56.2  | 84.4# |
| 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): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E



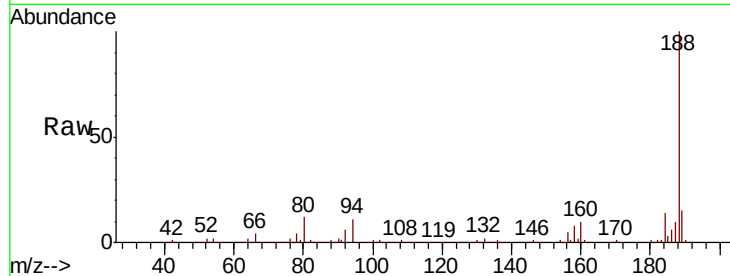




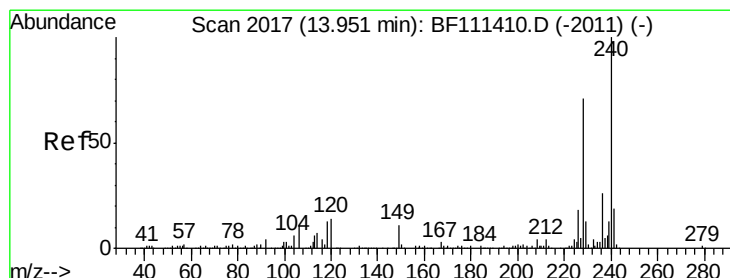
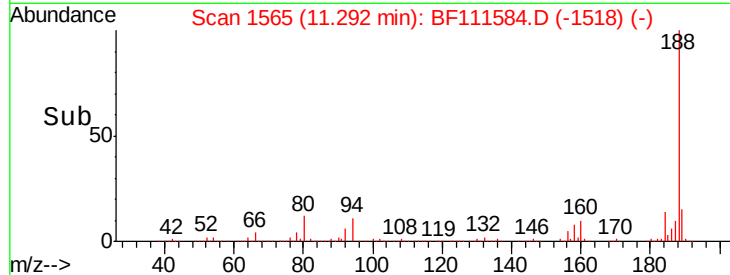
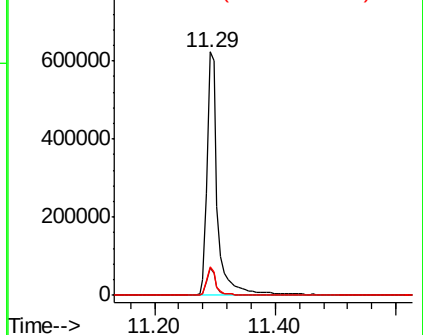
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.29 min Scan# 1565  
Delta R.T. -0.02 min  
Lab File: BF111584.D  
Acq: 18 Dec 2018 19:18

Instrument :  
BNA\_F  
ClientSampleId :  
PB115777BL

Tgt Ion:188 Resp: 765001  
Ion Ratio Lower Upper  
188 100  
94 11.2 9.6 14.4  
80 11.9 9.8 14.6

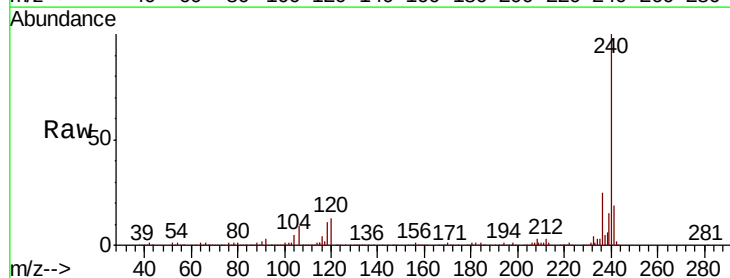


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

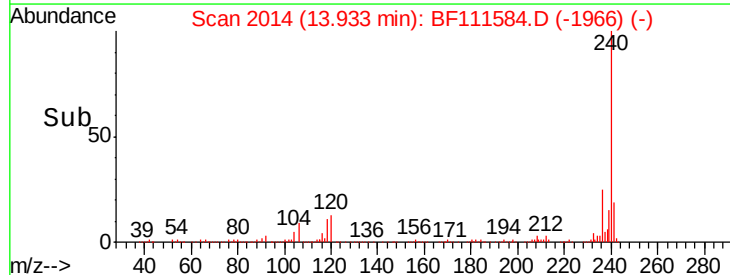
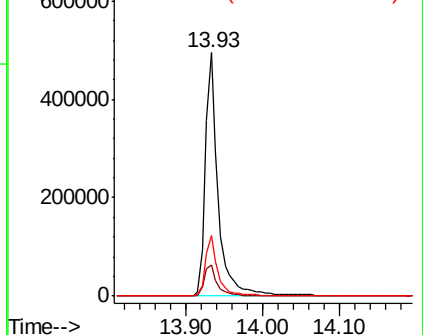


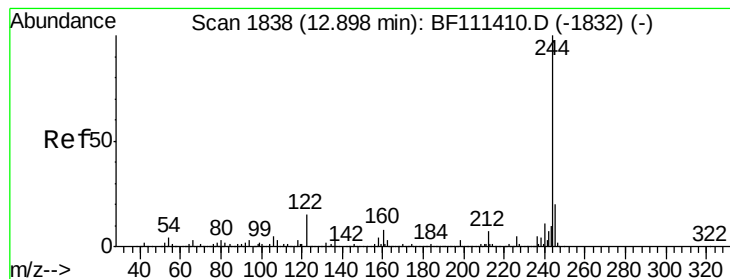
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.93 min Scan# 2014  
Delta R.T. -0.02 min  
Lab File: BF111584.D  
Acq: 18 Dec 2018 19:18

Tgt Ion:240 Resp: 573849  
Ion Ratio Lower Upper  
240 100  
120 12.9 12.2 18.2  
236 25.1 20.2 30.2



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





#79

Terphenyl-d14

Concen: 67.314 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.02 min

Lab File: BF111584.D

Acq: 18 Dec 2018 19:18

Instrument :

BNA\_F

ClientSampleId :

PB115777BL

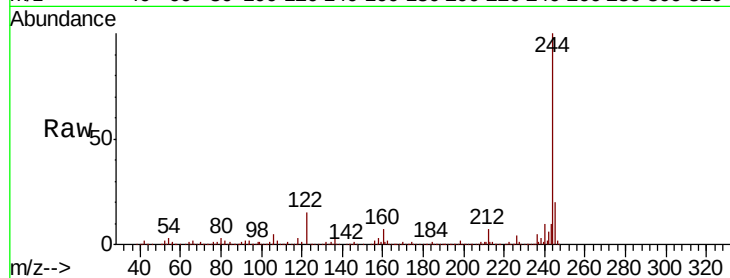
Tgt Ion:244 Resp: 1644993

Ion Ratio Lower Upper

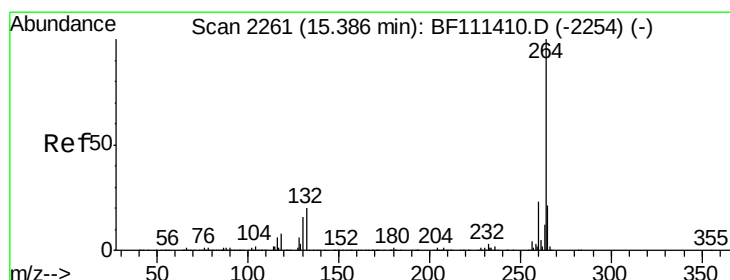
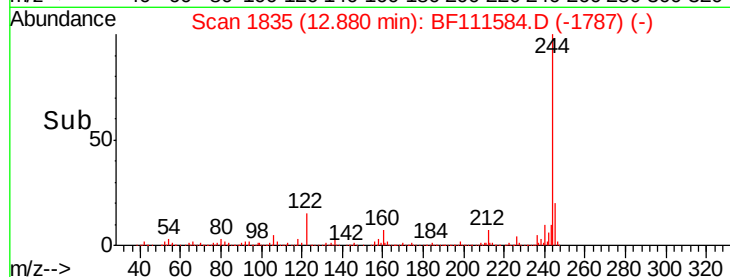
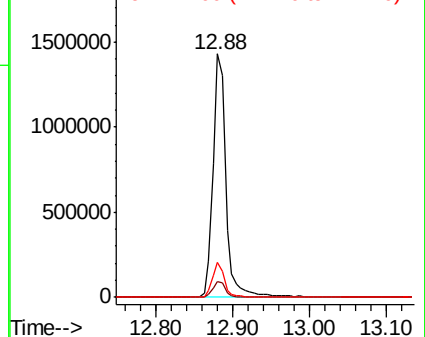
244 100

212 6.5 5.7 8.5

122 14.5 13.1 19.7



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.37 min Scan# 2258

Delta R.T. -0.02 min

Lab File: BF111584.D

Acq: 18 Dec 2018 19:18

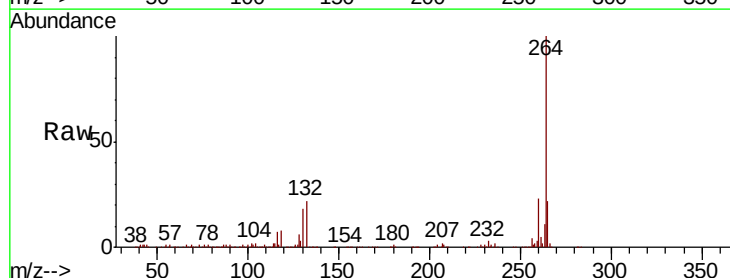
Tgt Ion:264 Resp: 418163

Ion Ratio Lower Upper

264 100

260 23.3 18.3 27.5

265 22.5 17.7 26.5



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

