

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121018\  
 Data File : BF111246.D  
 Acq On : 10 Dec 2018 17:06  
 Operator : JU/SJ  
 Sample : PB115384BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB115384BL

Quant Time: Dec 11 03:57:02 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 01:15:27 2018  
 Response via : Initial Calibration

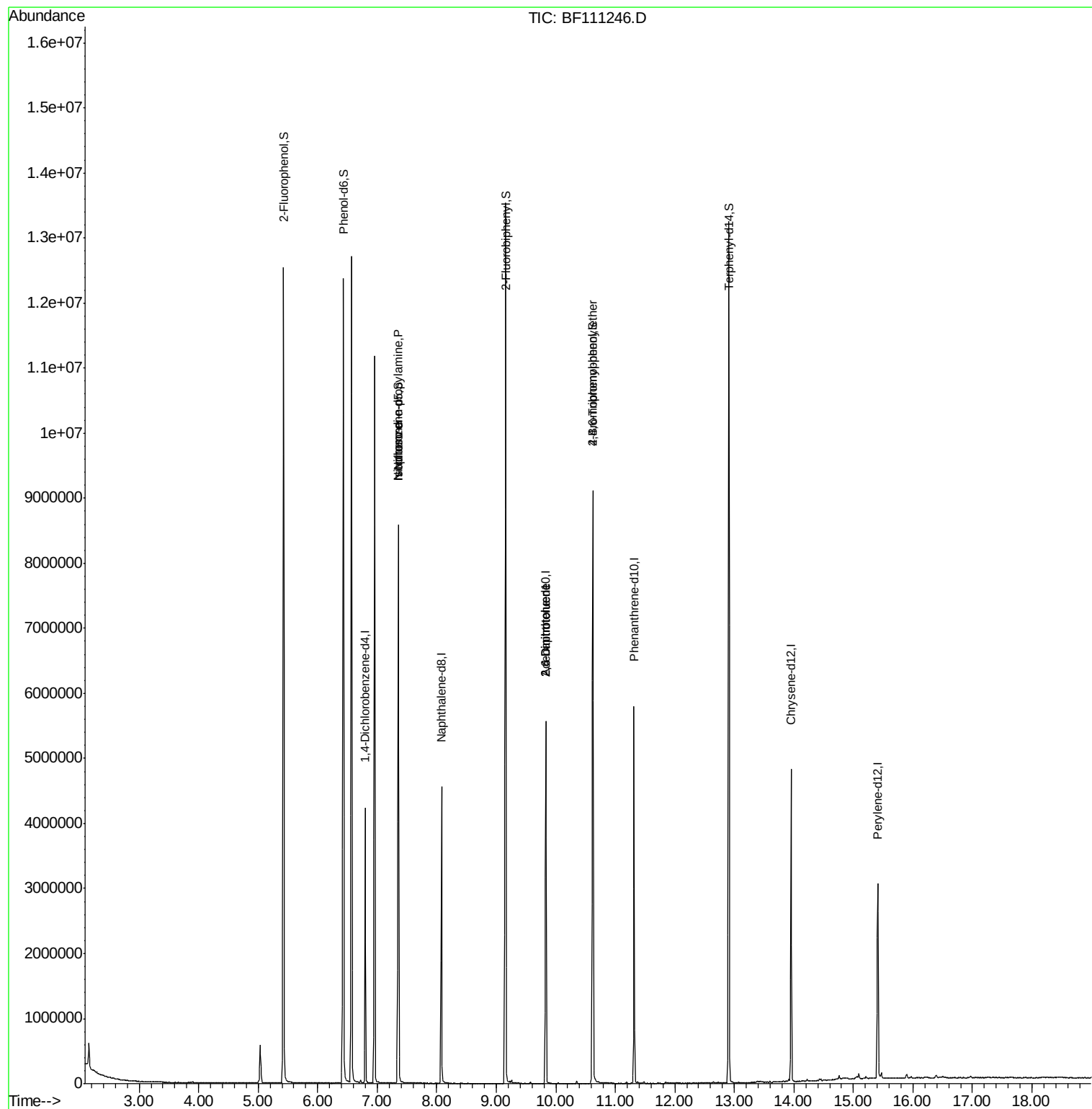
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)   |
|--------------------------------|-------|------|----------|-----------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 568930   | 20.00     | ng    | 0.00       |
| 21) Naphthalene-d8             | 8.08  | 136  | 2331186  | 20.00     | ng    | 0.00       |
| 39) Acenaphthene-d10           | 9.83  | 164  | 1135671  | 20.00     | ng    | 0.00       |
| 64) Phenanthrene-d10           | 11.32 | 188  | 2034174  | 20.00     | ng    | 0.00       |
| 76) Chrysene-d12               | 13.96 | 240  | 1584778  | 20.00     | ng    | 0.00       |
| 87) Perylene-d12               | 15.41 | 264  | 1314896  | 20.00     | ng    | 0.02       |
| System Monitoring Compounds    |       |      |          |           |       |            |
| 5) 2-Fluorophenol              | 5.43  | 112  | 3749855  | 104.08    | ng    | 0.02       |
| 7) Phenol-d6                   | 6.43  | 99   | 4694780  | 104.85    | ng    | 0.00       |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 3128676  | 75.28     | ng    | 0.00       |
| 42) 2,4,6-Tribromophenol       | 10.62 | 330  | 1085262  | 107.88    | ng    | 0.00       |
| 45) 2-Fluorobiphenyl           | 9.16  | 172  | 5010219  | 73.61     | ng    | 0.00       |
| 79) Terphenyl-d14              | 12.91 | 244  | 4763827  | 72.10     | ng    | 0.00       |
| Target Compounds               |       |      |          |           |       |            |
| 9) Benzaldehyde                | 6.43  | 77   | 6489     | Below Cal |       | Qvalue # 1 |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 427133   | 14.240 ng | #     | 77         |
| 25) Isophorone                 | 7.36  | 82   | 3061701  | 43.251 ng | #     | 64         |
| 46) 1,1'-Biphenyl              | 9.26  | 154  | 13237    | Below Cal |       | 91         |
| 51) 2,6-Dinitrotoluene         | 9.83  | 165  | 143349   | 7.746 ng  | #     | 29         |
| 57) 2,4-Dinitrotoluene         | 9.83  | 165  | 143349   | 6.284 ng  | #     | 25         |
| 67) 4-Bromophenyl-phenylether  | 10.62 | 248  | 69062    | 3.100 ng  | #     | 1          |

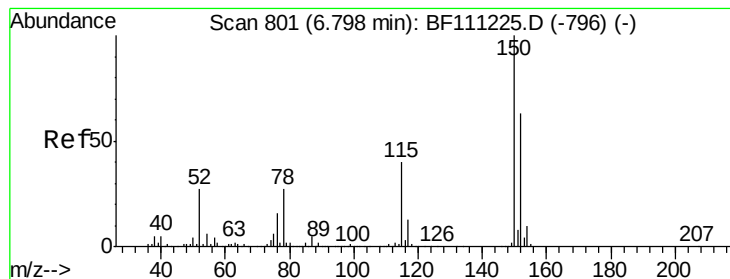
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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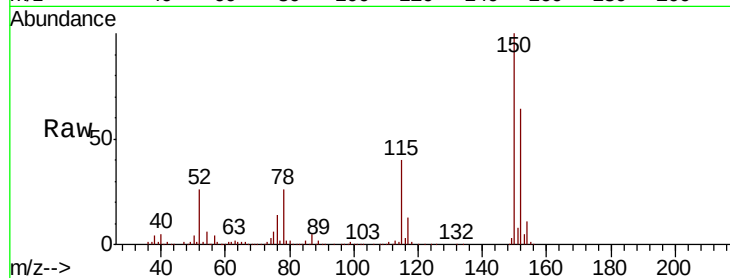


#1

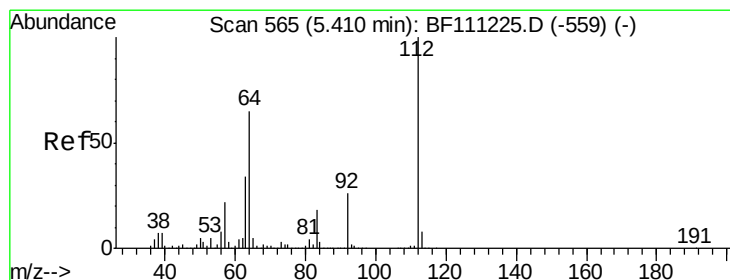
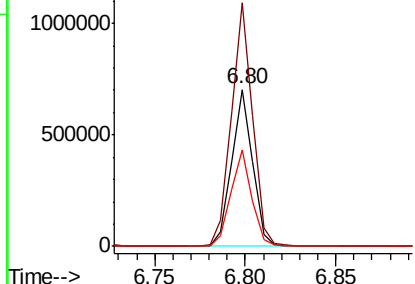
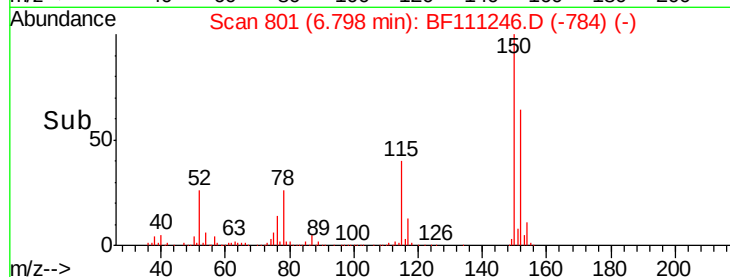
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. -0.00 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Instrument :  
BNA\_F  
ClientSampleId :  
PB115384BL

Tgt Ion:152 Resp: 568930  
Ion Ratio Lower Upper  
152 100  
150 155.0 126.6 189.8  
115 61.8 50.7 76.1



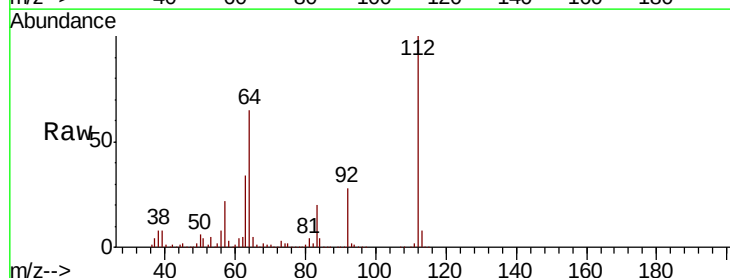
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



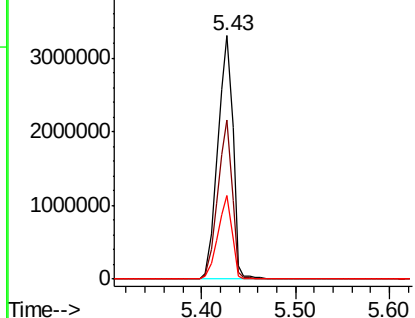
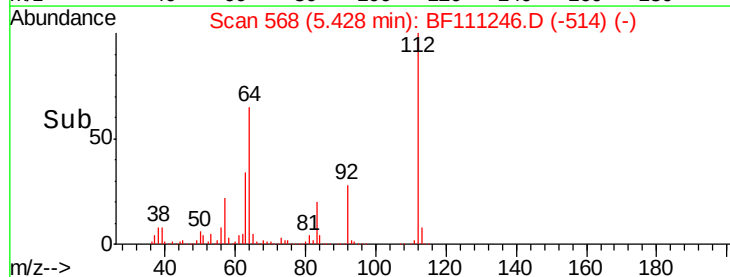
#5

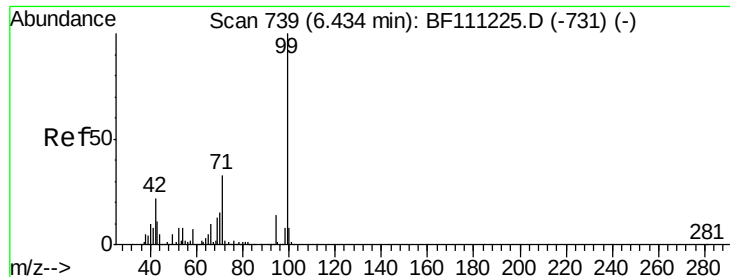
2-Fluorophenol  
Concen: 104.078 ng  
RT: 5.43 min Scan# 568  
Delta R.T. 0.02 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Tgt Ion:112 Resp: 3749855  
Ion Ratio Lower Upper  
112 100  
64 65.3 51.8 77.6  
63 34.3 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: 104.851 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.00 min

Lab File: BF111246.D

Acq: 10 Dec 2018 17:06

Instrument :

BNA\_F

ClientSampleId :

PB115384BL

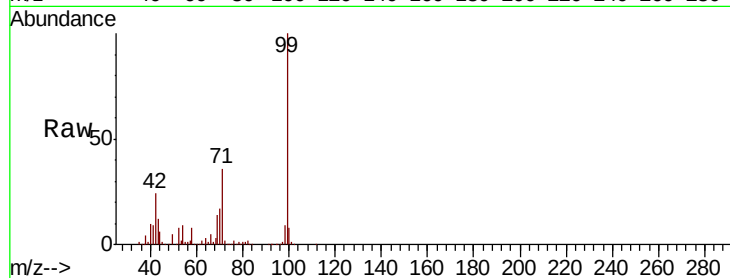
Tgt Ion: 99 Resp: 4694780

Ion Ratio Lower Upper

99 100

42 24.1 17.4 26.0

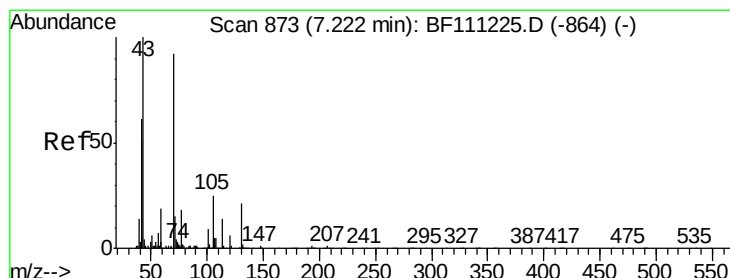
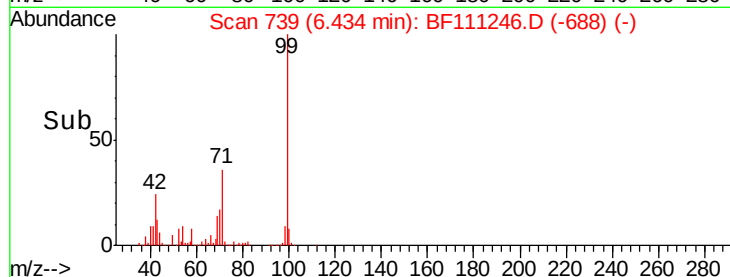
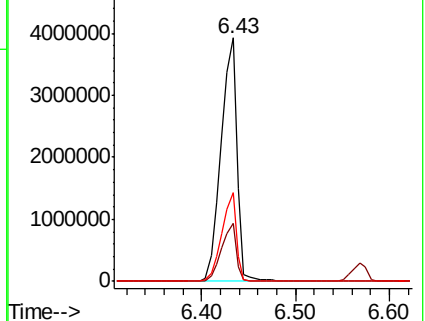
71 36.3 26.1 39.1



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: 14.240 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.14 min

Lab File: BF111246.D

Acq: 10 Dec 2018 17:06

Tgt Ion: 70 Resp: 427133

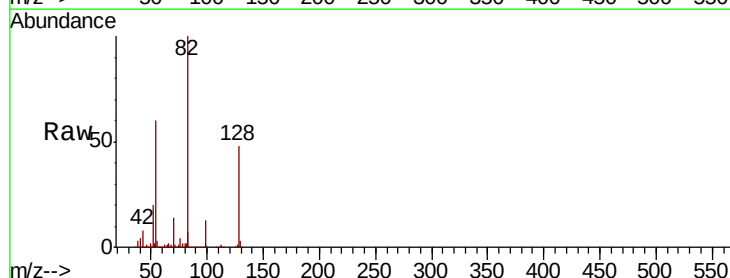
Ion Ratio Lower Upper

70 100

42 53.9 53.2 79.8

101 0.0 8.2 12.4#

130 2.3 18.1 27.1#

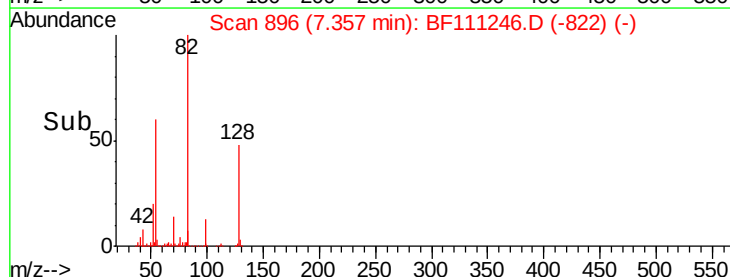
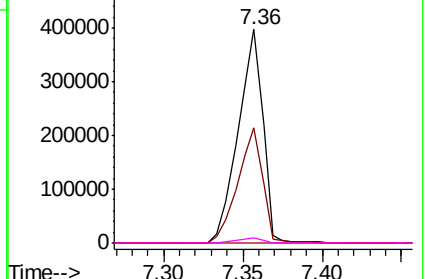


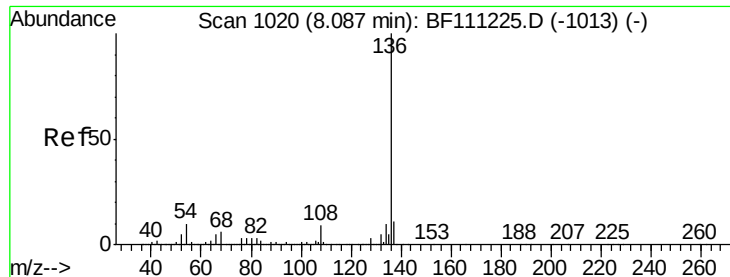
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

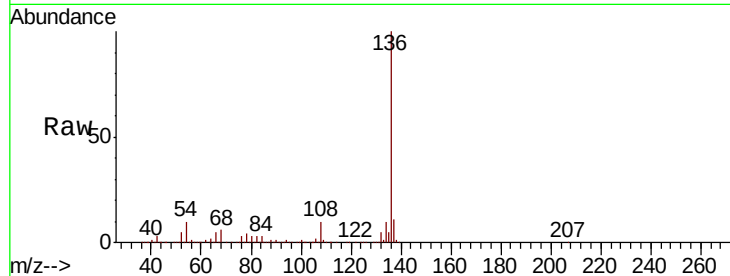




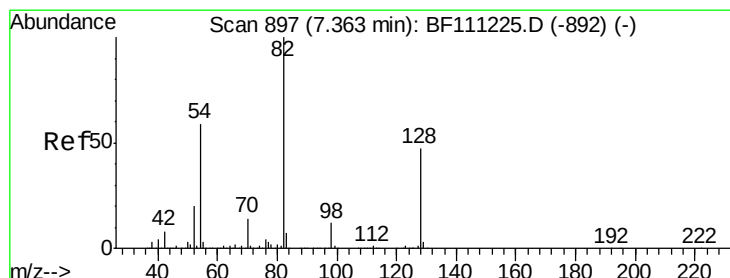
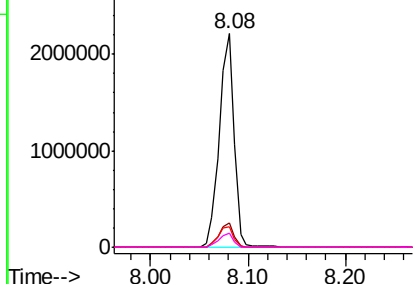
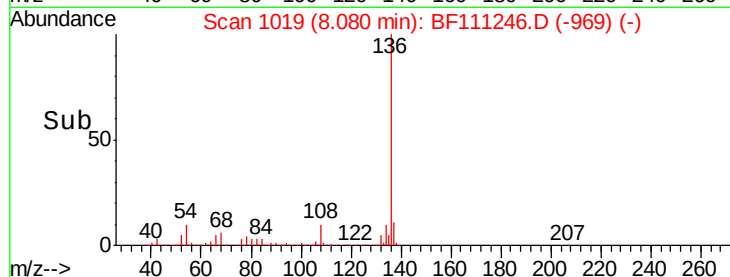
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Instrument :  
BNA\_F  
ClientSampleId :  
PB115384BL

| Tgt Ion: | 136   | Resp: | 2331186 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.1  | 9.1   | 13.7    |
| 54       | 9.9   | 7.7   | 11.5    |
| 68       | 6.4   | 4.9   | 7.3     |

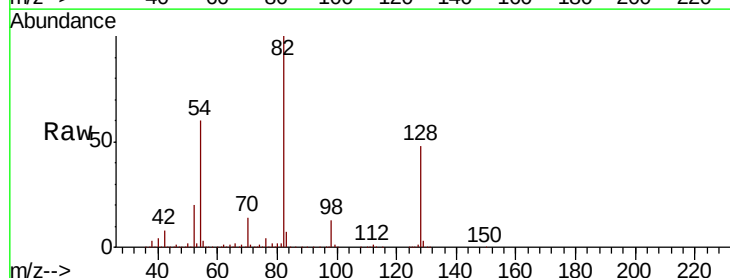


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

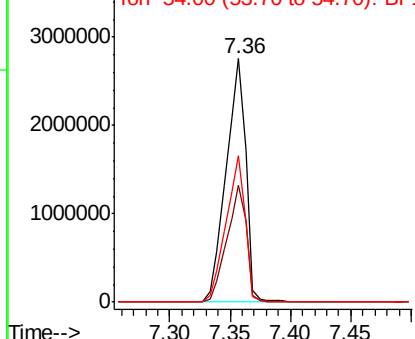
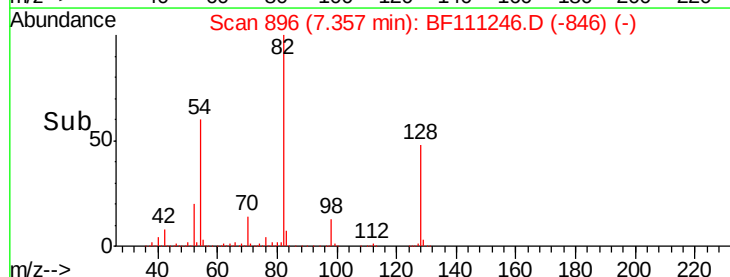


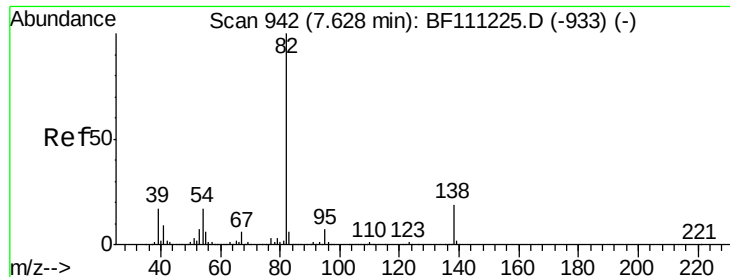
#23  
Nitrobenzene-d5  
Concen: 75.276 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

| Tgt Ion: | 82    | Resp: | 3128676 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 47.9  | 37.4  | 56.2    |
| 54       | 60.3  | 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

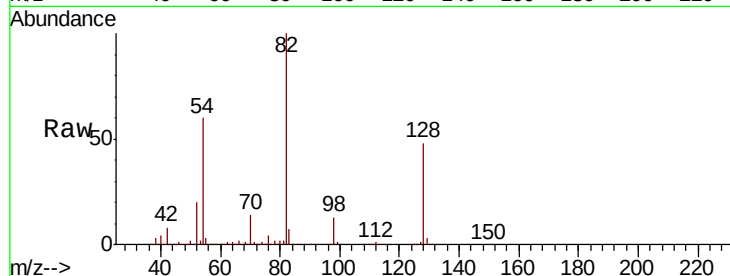




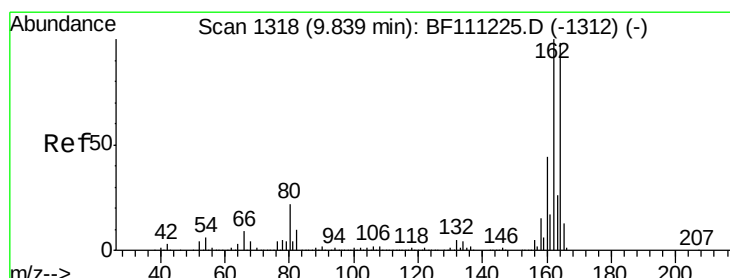
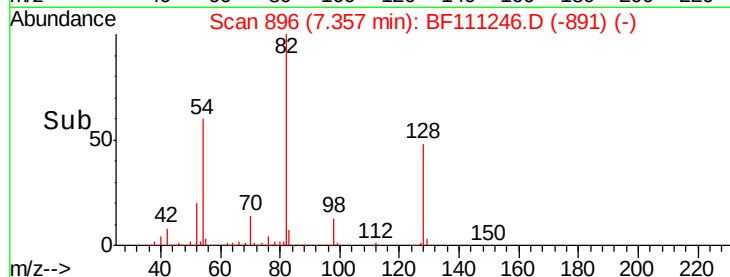
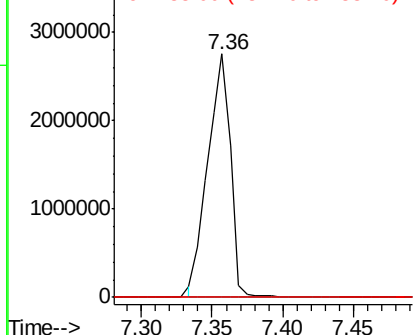
#25  
Isophorone  
Concen: 43.251 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.27 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Instrument :  
BNA\_F  
ClientSampleId :  
PB115384BL

Tgt Ion: 82 Resp: 3061701  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.2#  
138 0.0 15.1 22.7#

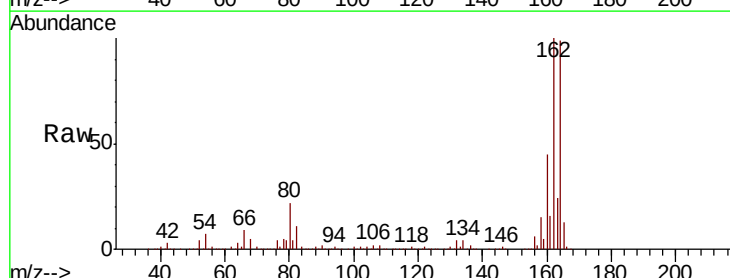


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): E

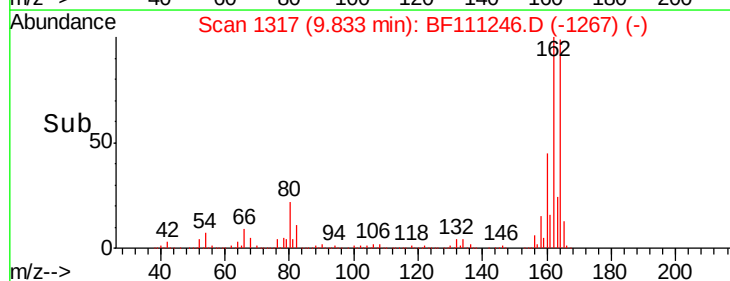
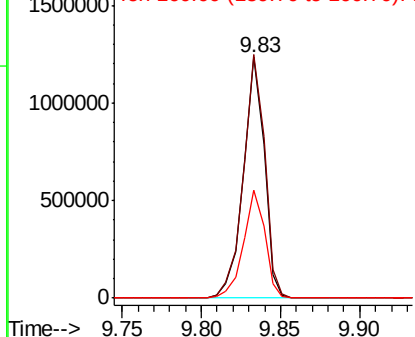


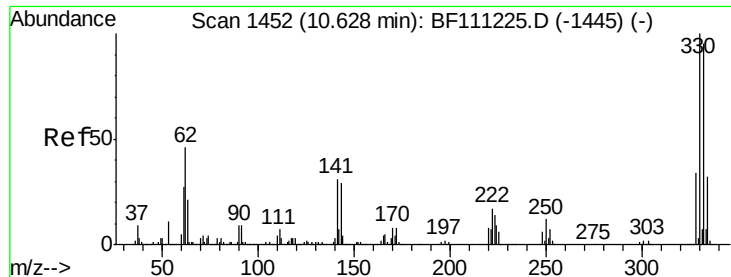
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.01 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Tgt Ion: 164 Resp: 1135671  
Ion Ratio Lower Upper  
164 100  
162 101.2 81.4 122.0  
160 45.1 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

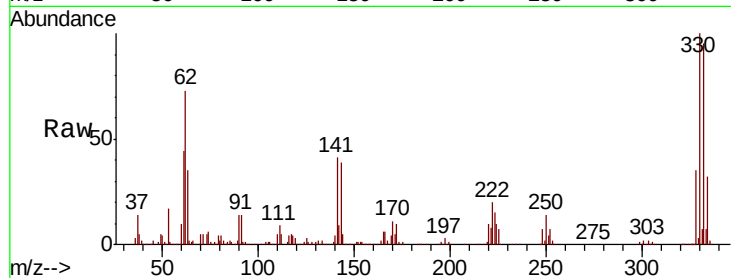




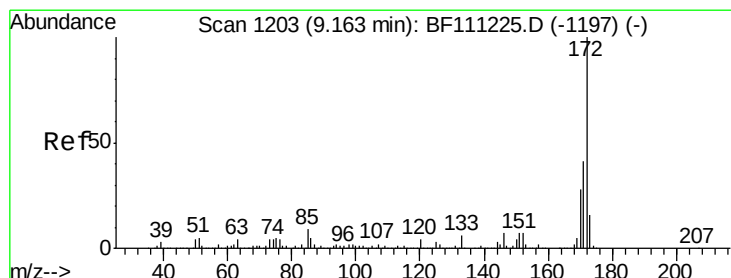
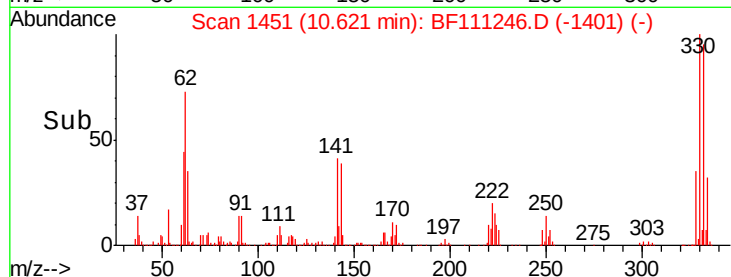
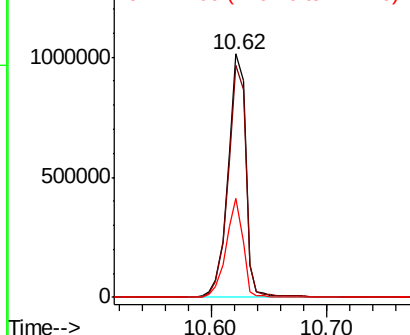
#42  
 2,4,6-Tribromophenol  
 Concen: 107.880 ng  
 RT: 10.62 min Scan# 1451  
 Delta R.T. -0.01 min  
 Lab File: BF111246.D  
 Acq: 10 Dec 2018 17:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB115384BL

Tgt Ion:330 Resp: 1085262  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 76.0 114.0  
 141 38.7 31.0 46.6

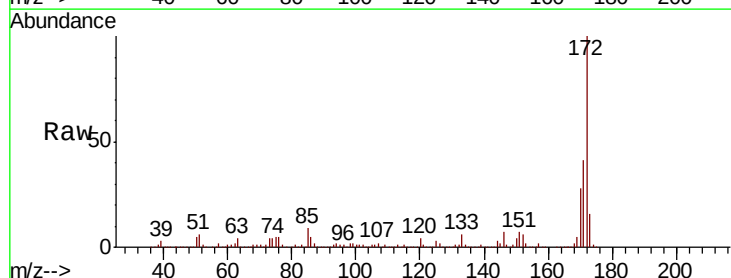


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

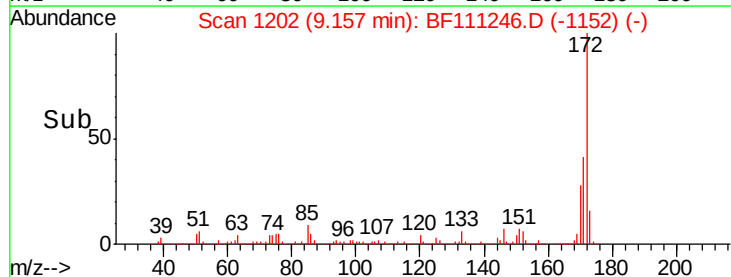
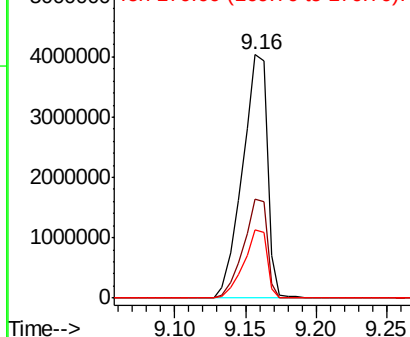


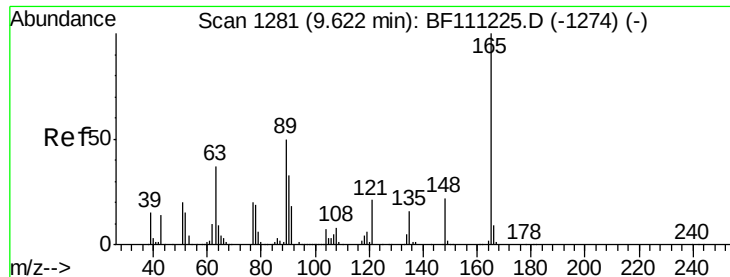
#45  
 2-Fluorobiphenyl  
 Concen: 73.610 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. -0.01 min  
 Lab File: BF111246.D  
 Acq: 10 Dec 2018 17:06

Tgt Ion:172 Resp: 5010219  
 Ion Ratio Lower Upper  
 172 100  
 171 40.9 33.0 49.4  
 170 28.0 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: 7.746 ng

RT: 9.83 min Scan# 1317

Delta R.T. 0.21 min

Lab File: BF111246.D

Acq: 10 Dec 2018 17:06

Instrument :

BNA\_F

ClientSampleId :

PB115384BL

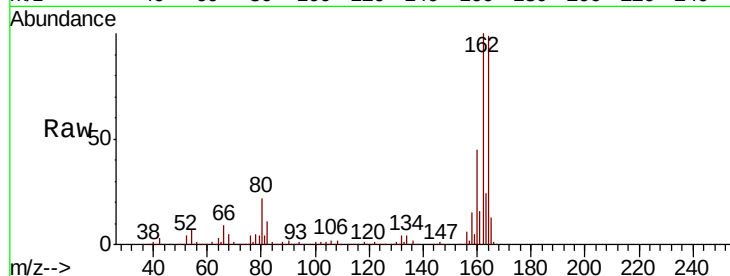
Tgt Ion:165 Resp: 143349

Ion Ratio Lower Upper

165 100

63 1.5 40.5 60.7#

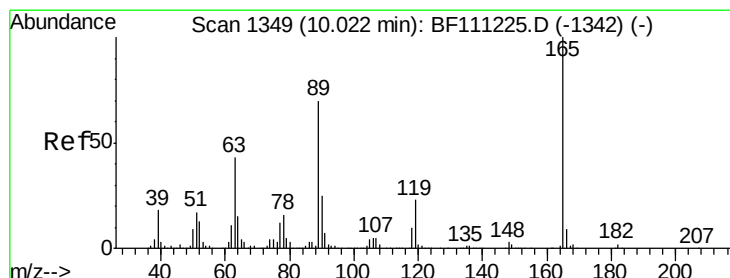
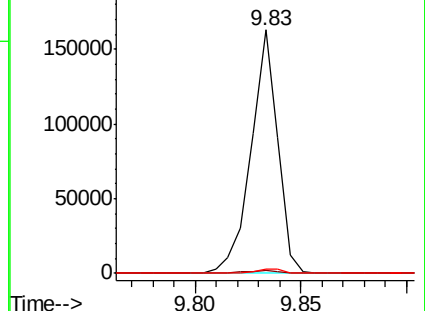
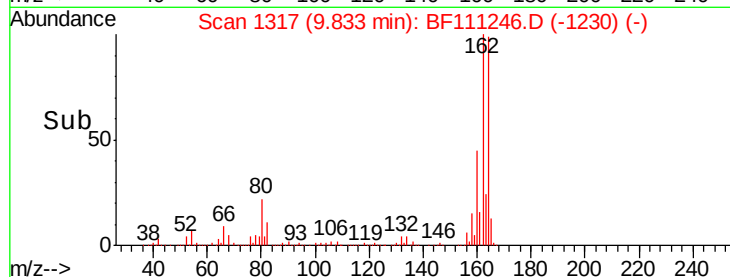
89 1.6 40.0 60.0#



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: 6.284 ng

RT: 9.83 min Scan# 1317

Delta R.T. -0.19 min

Lab File: BF111246.D

Acq: 10 Dec 2018 17:06

Tgt Ion:165 Resp: 143349

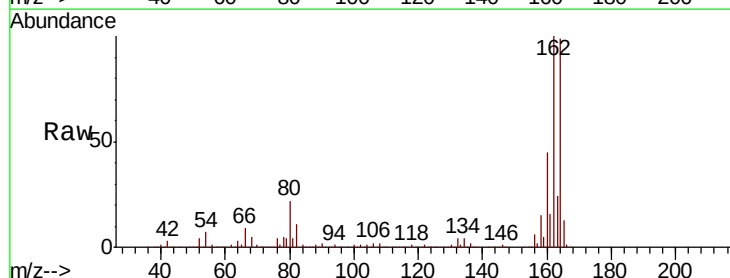
Ion Ratio Lower Upper

165 100

63 1.5 34.6 52.0#

89 1.6 56.2 84.4#

182 0.0 1.8 2.6#

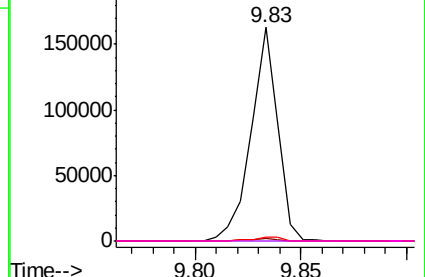
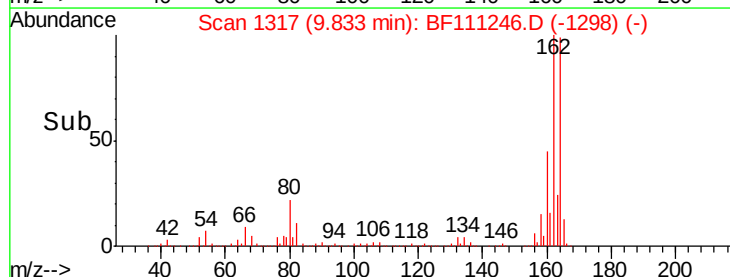


Abundance Ion 165.00 (164.70 to 165.70): E

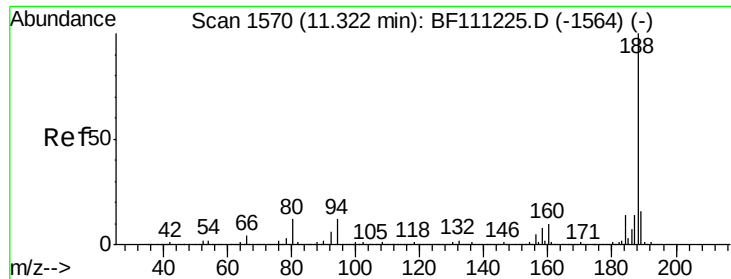
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



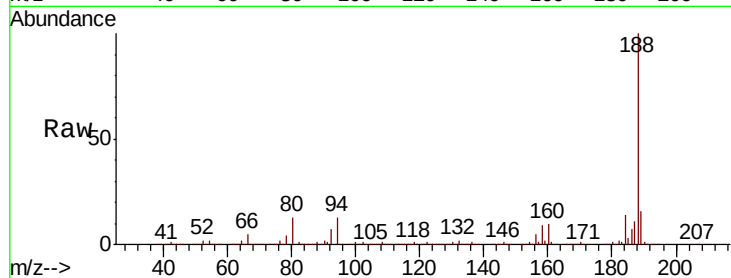




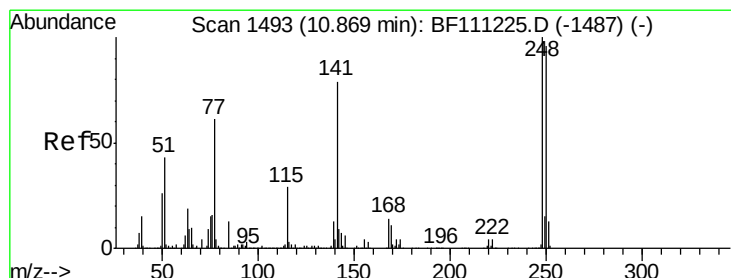
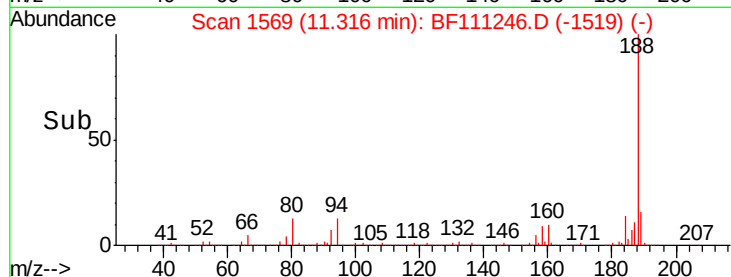
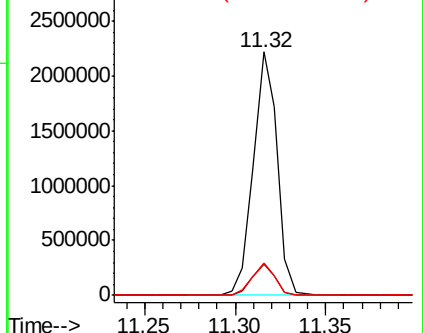
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1569  
Delta R.T. -0.01 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Instrument :  
BNA\_F  
ClientSampleId :  
PB115384BL

Tgt Ion:188 Resp: 2034174  
Ion Ratio Lower Upper  
188 100  
94 12.9 9.6 14.4  
80 13.3 9.8 14.6

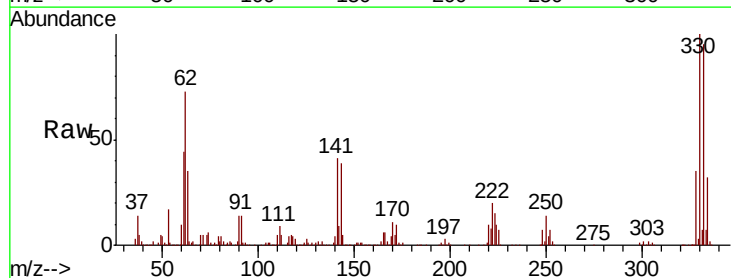


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

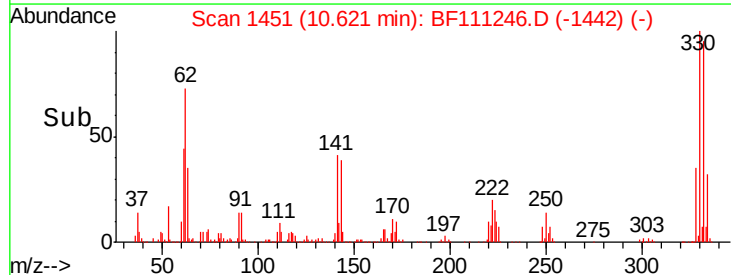
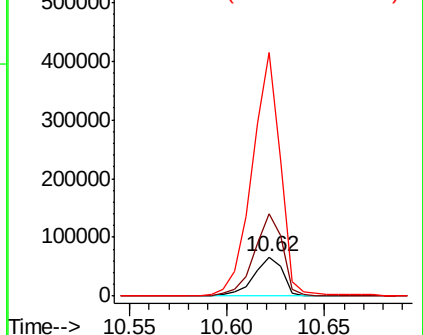


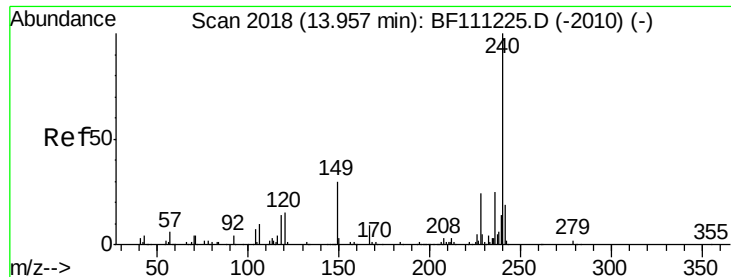
#67  
4-Bromophenyl-phenylether  
Concen: 3.100 ng  
RT: 10.62 min Scan# 1451  
Delta R.T. -0.25 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Tgt Ion:248 Resp: 69062  
Ion Ratio Lower Upper  
248 100  
250 210.9 77.0 115.4#  
141 623.7 63.0 94.6#



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

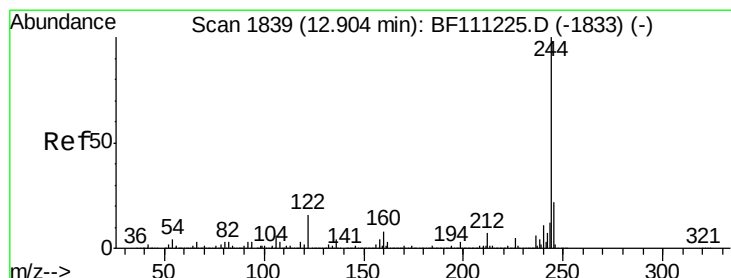
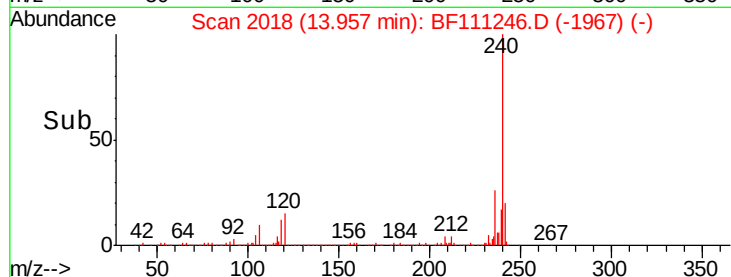
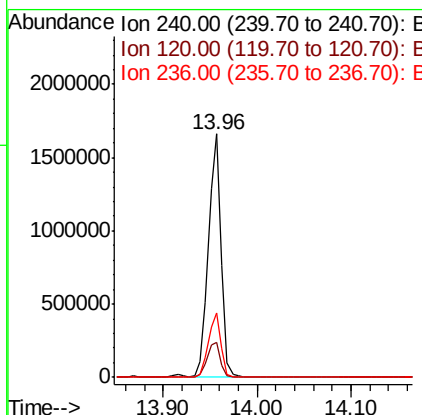
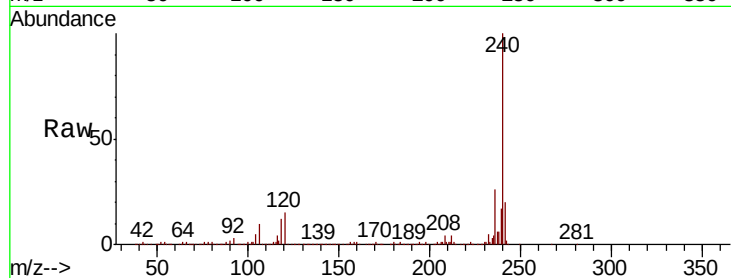




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2018  
Delta R.T. -0.00 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

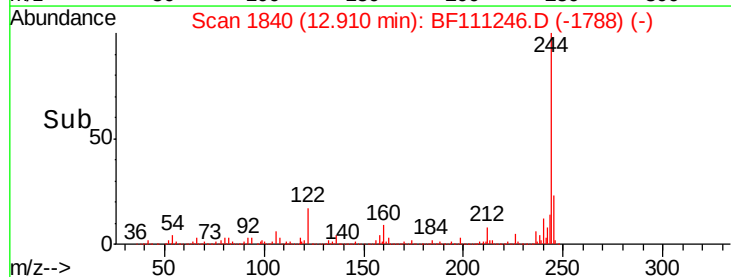
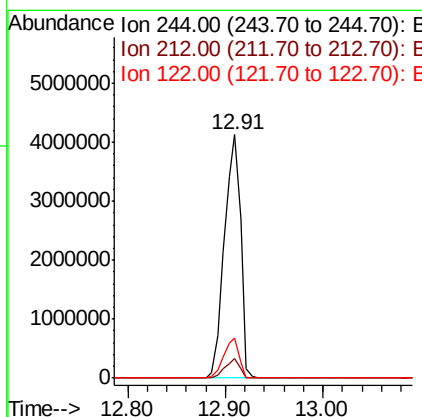
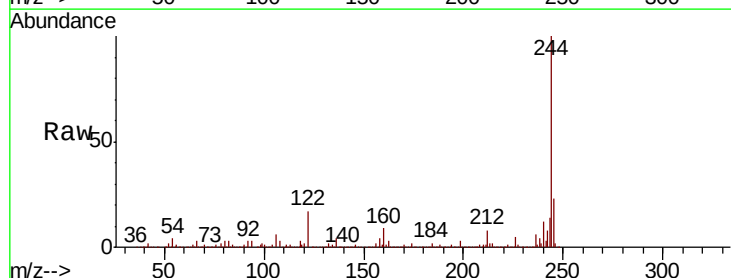
Instrument :  
BNA\_F  
ClientSampleId :  
PB115384BL

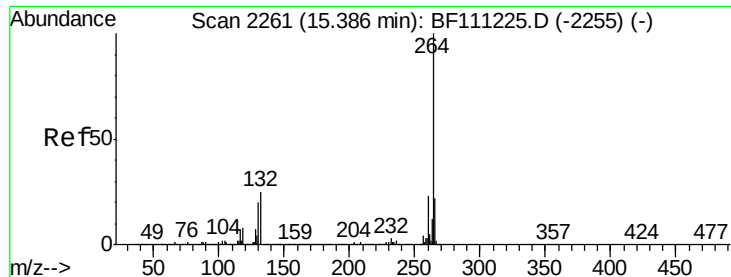
Tgt Ion:240 Resp: 1584778  
Ion Ratio Lower Upper  
240 100  
120 14.5 12.2 18.2  
236 26.3 20.2 30.2



#79  
Terphenyl-d14  
Concen: 72.103 ng  
RT: 12.91 min Scan# 1840  
Delta R.T. 0.01 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Tgt Ion:244 Resp: 4763827  
Ion Ratio Lower Upper  
244 100  
212 8.0 5.7 8.5  
122 16.7 13.1 19.7





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.41 min Scan# 2265  
Delta R.T. 0.02 min  
Lab File: BF111246.D  
Acq: 10 Dec 2018 17:06

Instrument :  
BNA\_F  
ClientSampleId :  
PB115384BL

Tgt Ion: 264 Resp: 1314896  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 18.3  | 27.5  |
| 265 | 21.8  | 17.7  | 26.5  |

