

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121318\  
 Data File : BF111403.D  
 Acq On : 14 Dec 2018 7:34  
 Operator : JU/SJ  
 Sample : J6215-01  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 14 09:42:31 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 12 13:16:52 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.79  | 152  | 219986   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.07  | 136  | 854673   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.83  | 164  | 382543   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.31 | 188  | 550967   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.94 | 240  | 393977   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.38 | 264  | 294018   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.42  | 112  | 606989   | 46.66 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 463723   | 26.44 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 1107100  | 73.01 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.62 | 330  | 282092   | 83.65 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.15  | 172  | 1642343  | 68.93 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.90 | 244  | 1416940  | 79.16 | ng    | 0.00     |

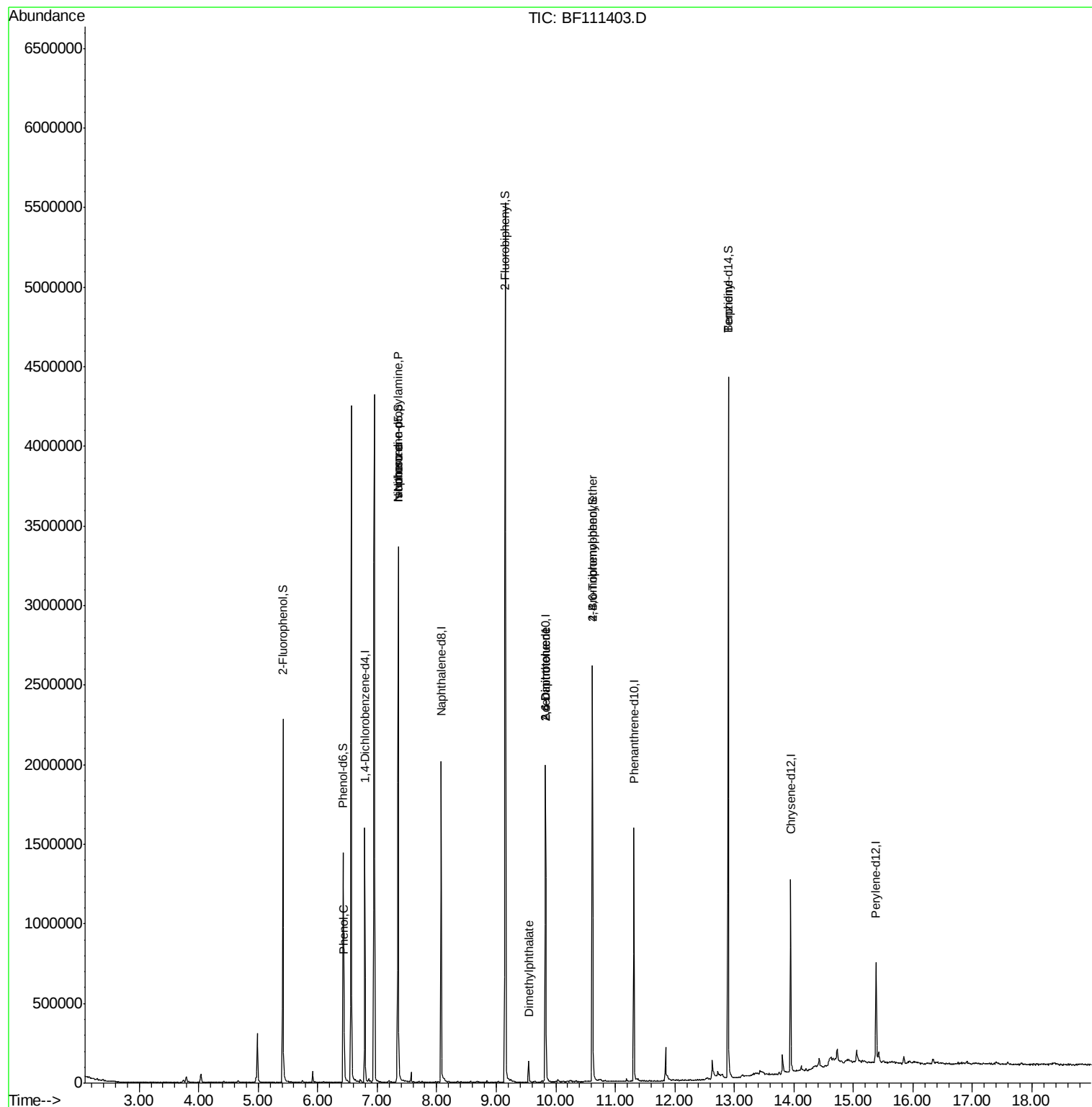
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.43  | 77   | 1243     | Below Cal |       | # 1    |
| 10) Phenol                     | 6.45  | 94   | 73436    | 3.696     | ng    | # 89   |
| 19) n-Nitroso-di-n-propylamine | 7.35  | 70   | 143030   | 12.272    | ng    | # 80   |
| 25) Isophorone                 | 7.35  | 82   | 1086793  | 42.193    | ng    | # 64   |
| 50) Dimethylphthalate          | 9.55  | 163  | 60909    | 2.214     | ng    | # 99   |
| 51) 2,6-Dinitrotoluene         | 9.83  | 165  | 47621    | 7.810     | ng    | # 29   |
| 57) 2,4-Dinitrotoluene         | 9.83  | 165  | 47621    | 6.094     | ng    | # 25   |
| 67) 4-Bromophenyl-phenylether  | 10.62 | 248  | 17653    | 2.878     | ng    | # 1    |
| 77) Benzidine                  | 12.90 | 184  | 15829    | 2.129     | ng    | # 99   |

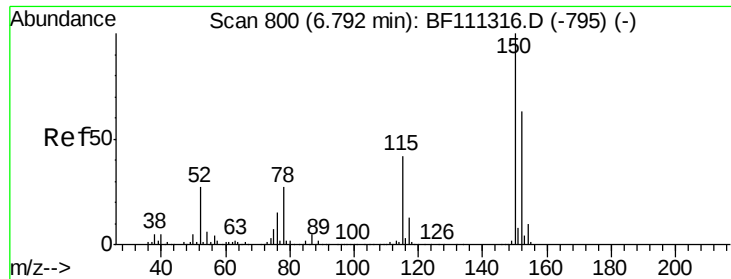
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_F  
ClientSampleId :

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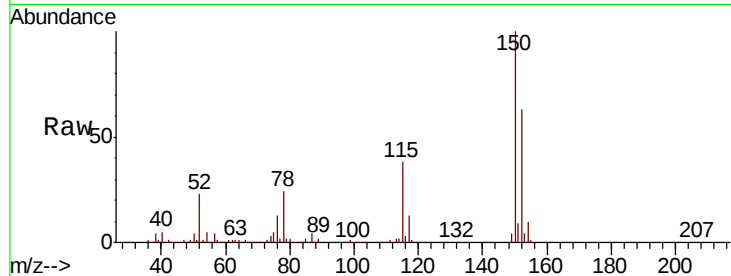


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 800  
Delta R.T. -0.00 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.4 | 126.6 | 189.8 |
| 115     | 59.6  | 50.7  | 76.1  |

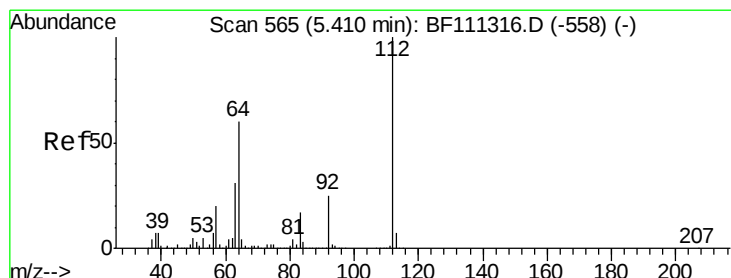
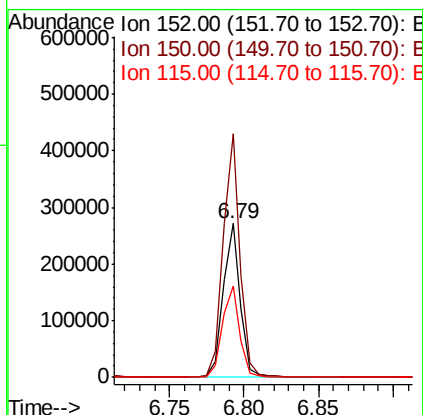
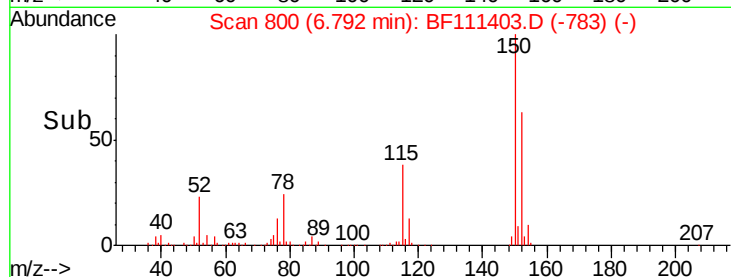


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

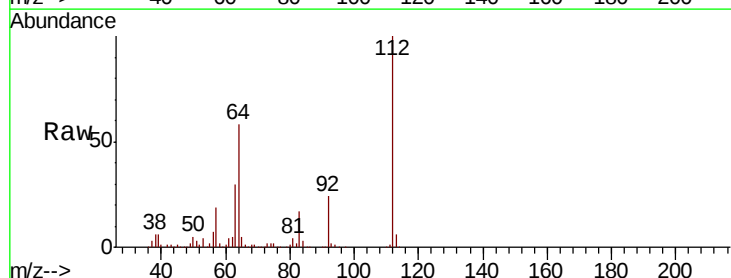
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 46.659 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.1  | 51.8  | 77.6  |
| 63      | 30.4  | 26.8  | 40.2  |

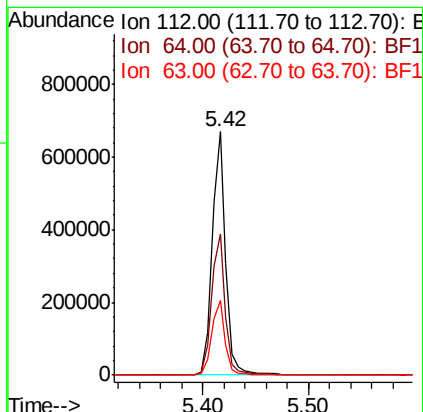
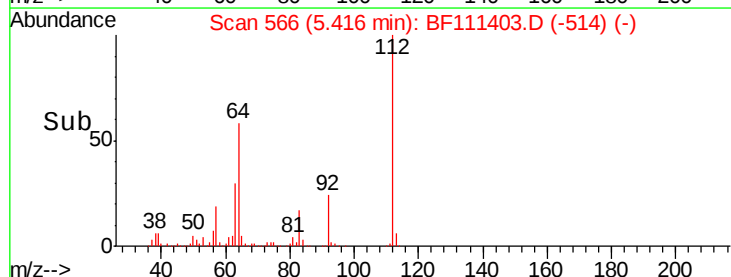


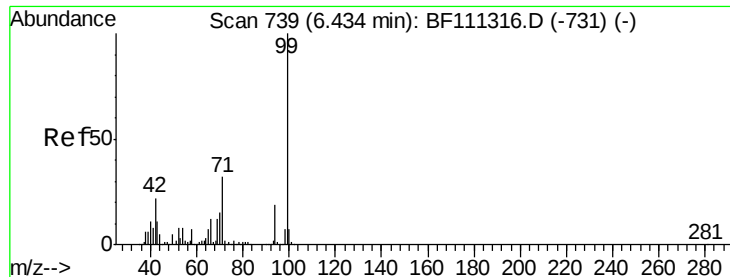
Abundance

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: 26.439 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111403.D

Acq: 14 Dec 2018 7:34

Instrument :

BNA\_F

ClientSampleId :

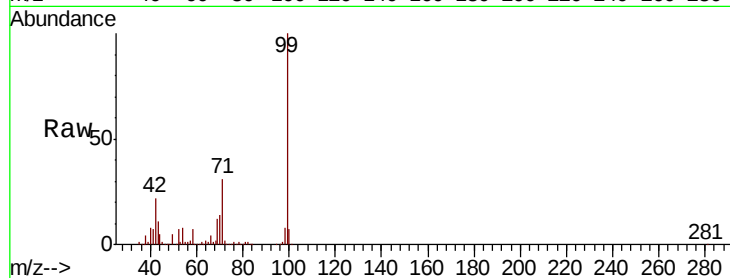
Tot Ion: 99 Resp: 463723

Ion Ratio Lower Upper

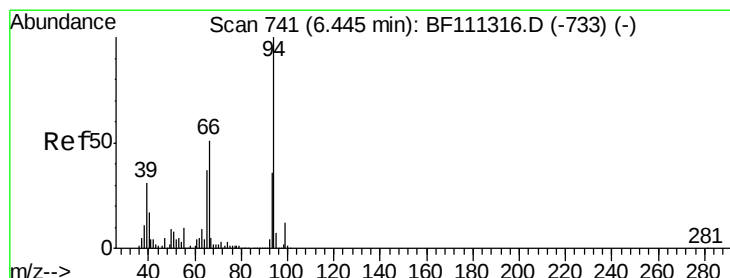
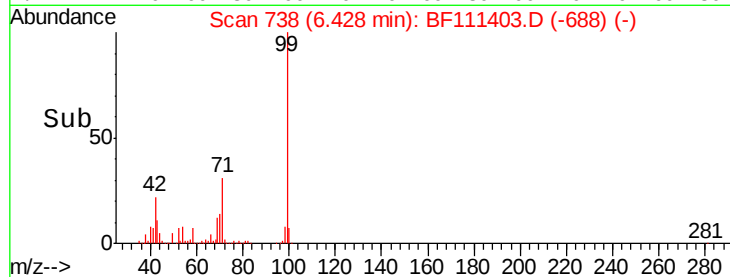
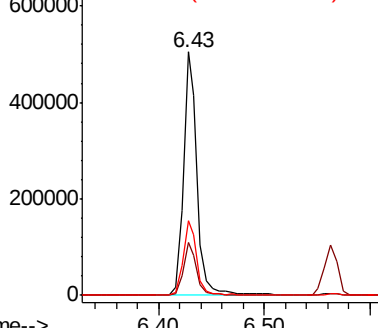
99 100

42 21.5 17.4 26.0

71 30.7 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



#10

Phenol

Concen: 3.696 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.00 min

Lab File: BF111403.D

Acq: 14 Dec 2018 7:34

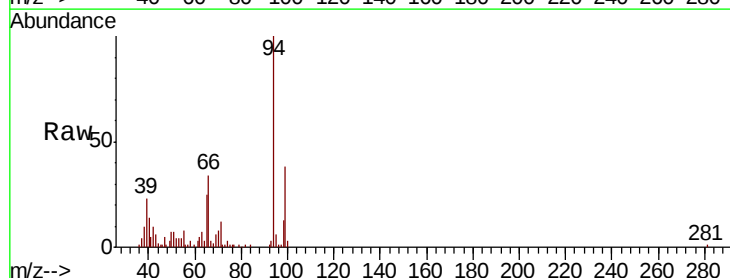
Tgt Ion: 94 Resp: 73436

Ion Ratio Lower Upper

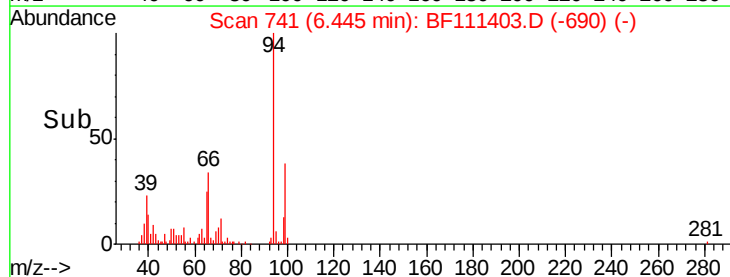
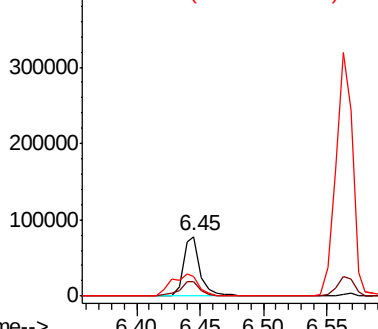
94 100

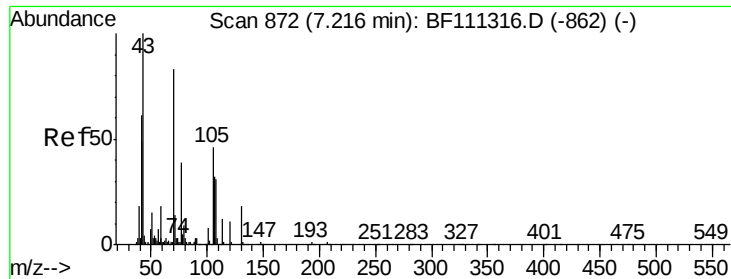
65 25.3 11.7 51.7

66 33.9 21.0 61.0



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

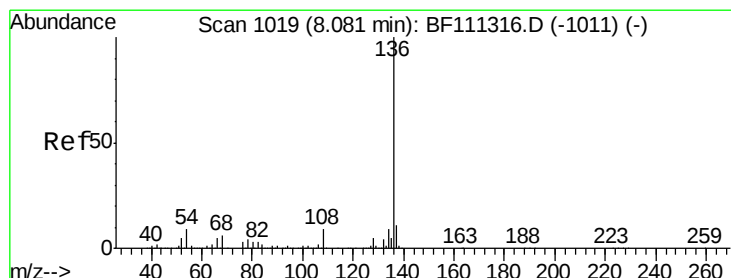
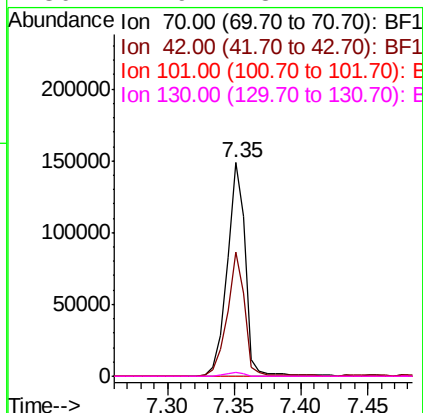
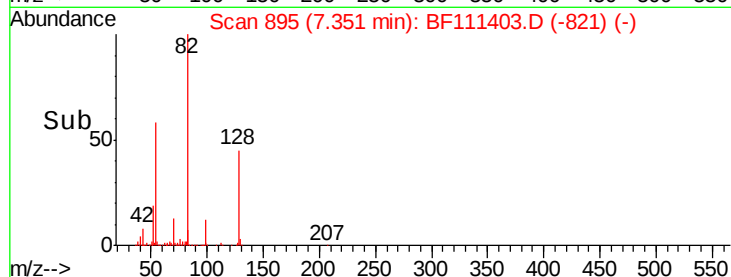
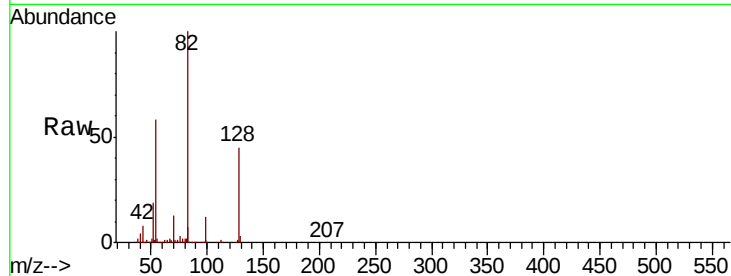




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.272 ng  
RT: 7.35 min Scan# 895  
Delta R.T. 0.14 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

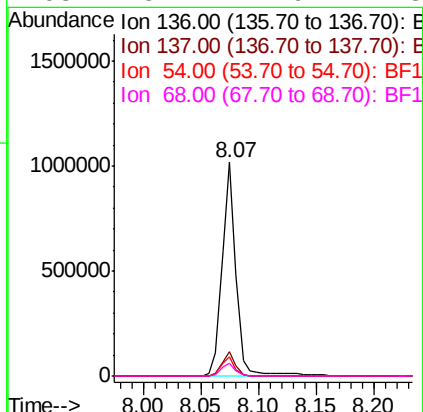
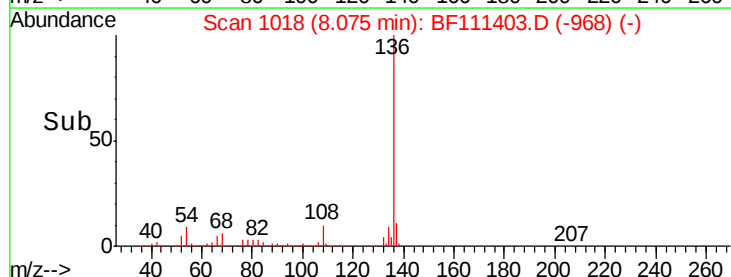
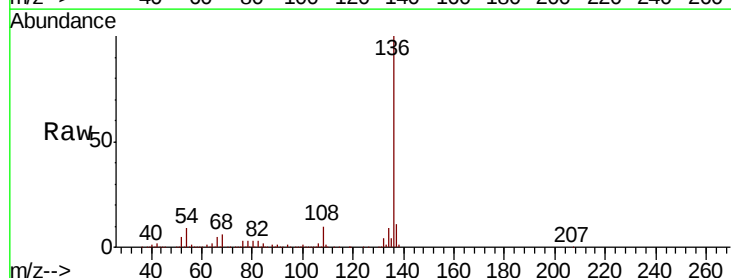
Instrument :  
BNA\_F  
ClientSampleId :

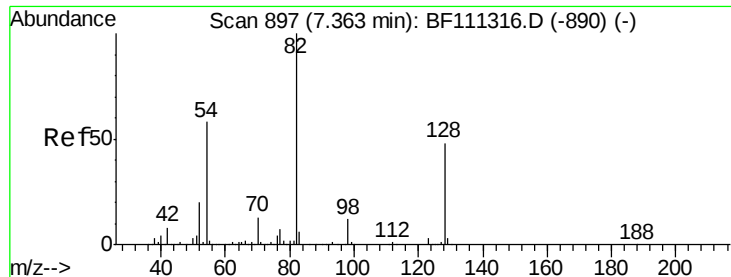
Tot Ion: 70 Resp: 143030  
Ion Ratio Lower Upper  
70 100  
42 57.9 53.2 79.8  
101 0.0 8.2 12.4#  
130 1.9 18.1 27.1#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

Tgt Ion: 136 Resp: 854673  
Ion Ratio Lower Upper  
136 100  
137 11.4 9.1 13.7  
54 9.2 7.7 11.5  
68 5.7 4.9 7.3



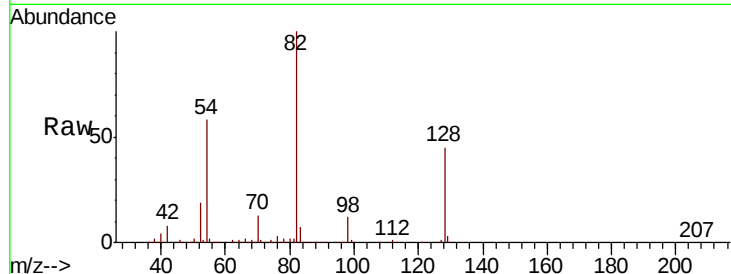


#23  
 Nitrobenzene-d5  
 Concen: 73.010 ng  
 RT: 7.35 min Scan# 895  
 Delta R.T. -0.01 min  
 Lab File: BF111403.D  
 Acq: 14 Dec 2018 7:34

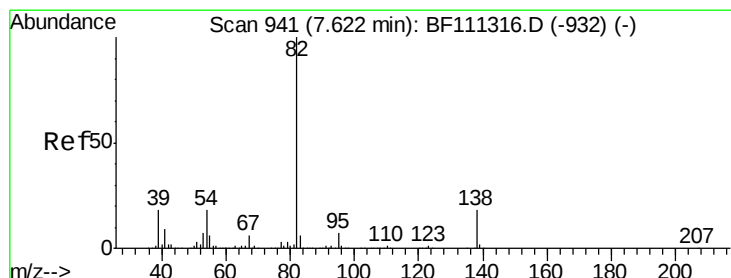
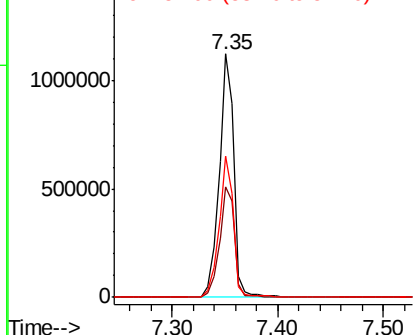
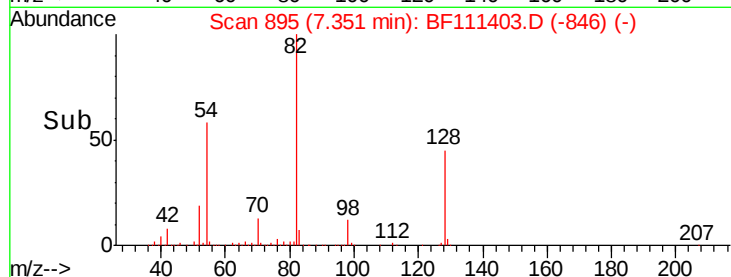
Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion: 82 Resp: 1107100  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 45.4  | 37.4  | 56.2  |
| 54  | 58.1  | 47.6  | 71.4  |



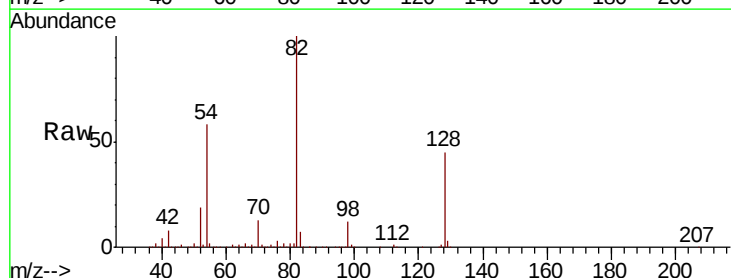
Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1



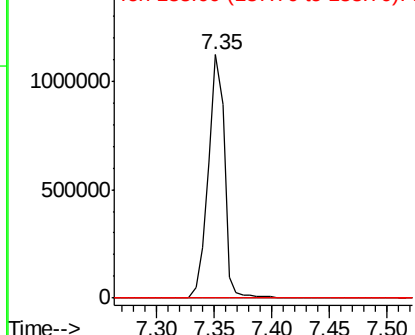
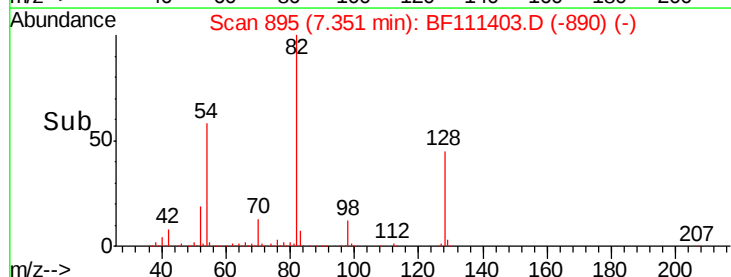
#25  
 Isophorone  
 Concen: 42.193 ng  
 RT: 7.35 min Scan# 895  
 Delta R.T. -0.27 min  
 Lab File: BF111403.D  
 Acq: 14 Dec 2018 7:34

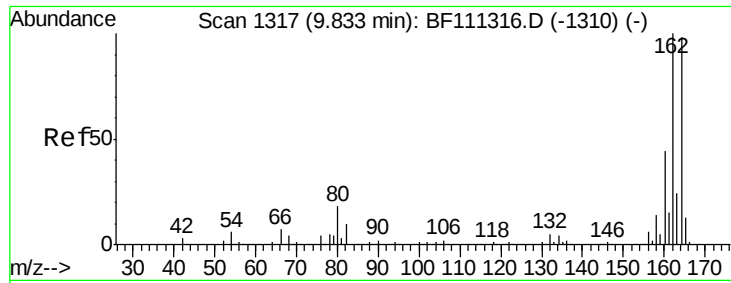
Tgt Ion: 82 Resp: 1086793  

| 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

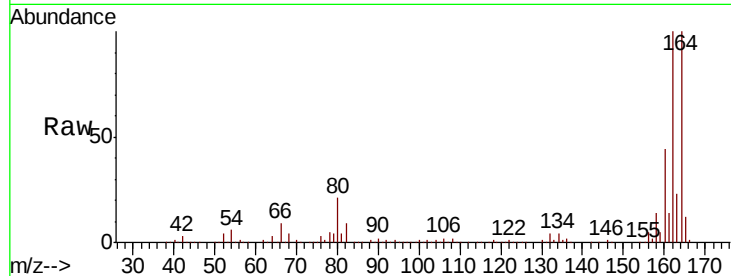




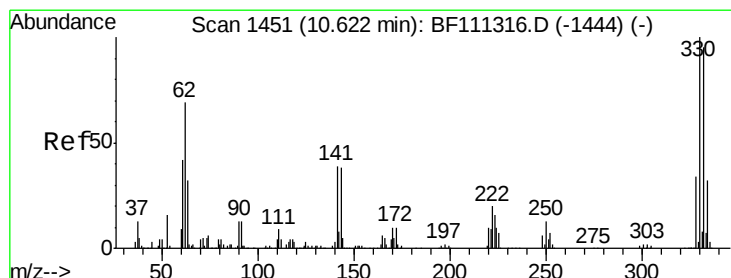
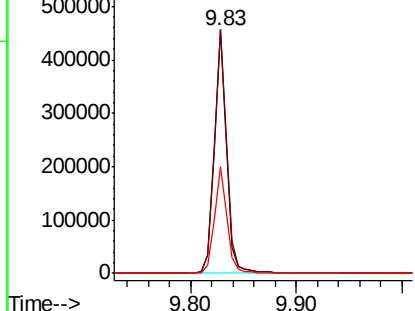
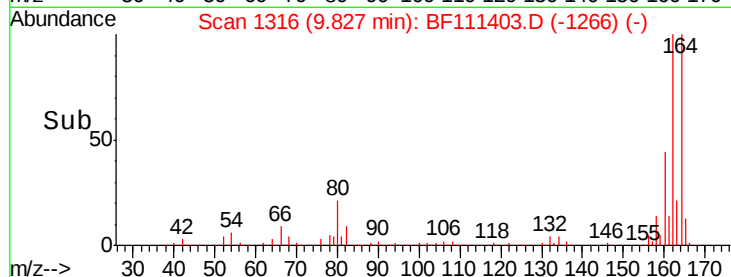
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 382543  
Ion Ratio Lower Upper  
164 100  
162 99.9 81.4 122.0  
160 43.7 35.7 53.5

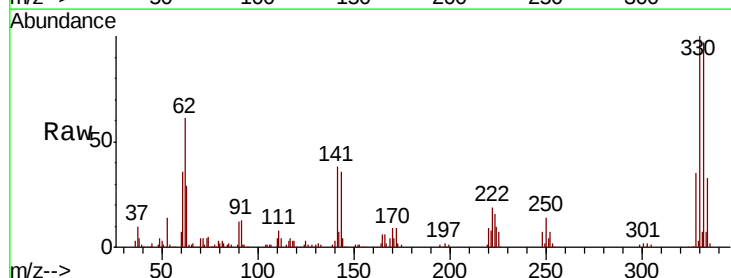


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

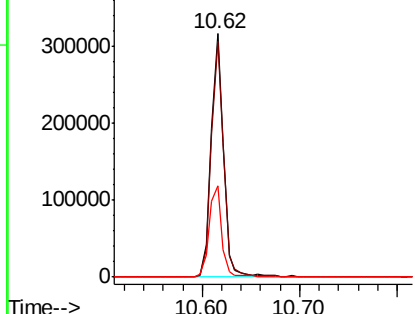
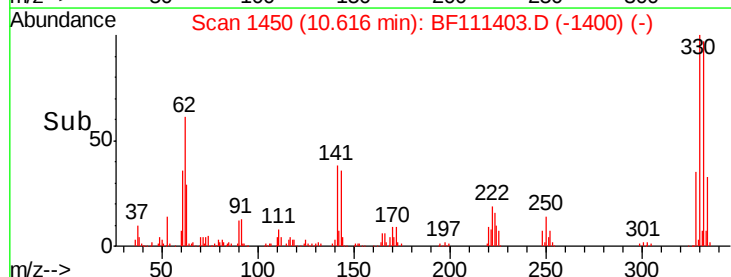


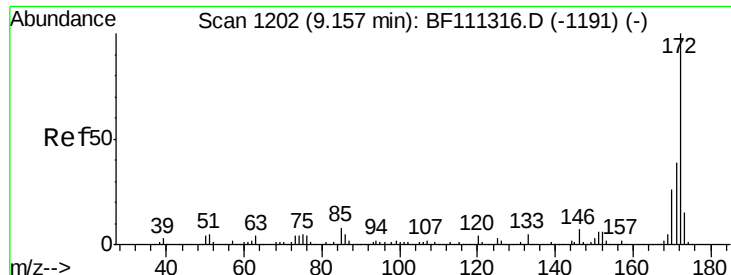
#42  
2,4,6-Tribromophenol  
Concen: 83.653 ng  
RT: 10.62 min Scan# 1450  
Delta R.T. -0.01 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

Tgt Ion:330 Resp: 282092  
Ion Ratio Lower Upper  
330 100  
332 95.8 76.0 114.0  
141 37.9 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

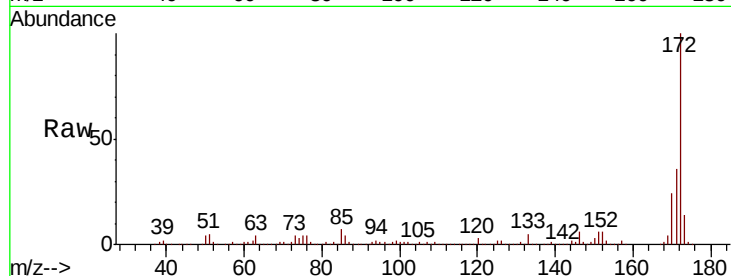




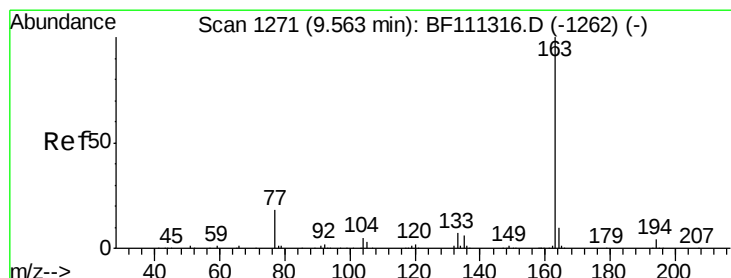
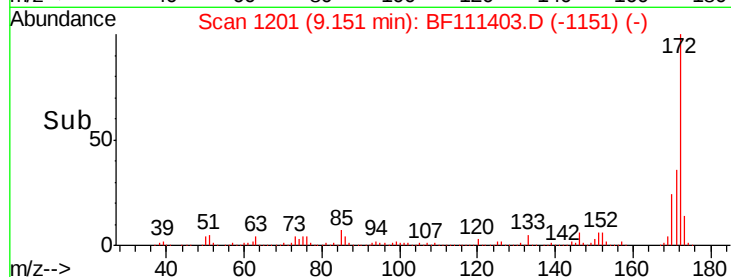
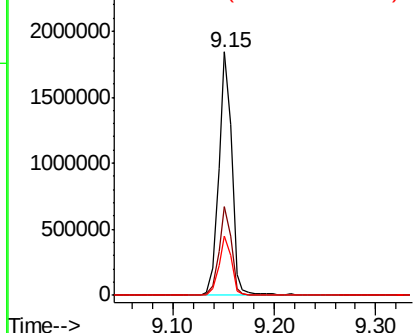
#45  
2-Fluorobiphenyl  
Concen: 68.927 ng  
RT: 9.15 min Scan# 1201  
Delta R.T. -0.01 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1642343  
Ion Ratio Lower Upper  
172 100  
171 36.3 33.0 49.4  
170 24.3 22.3 33.5

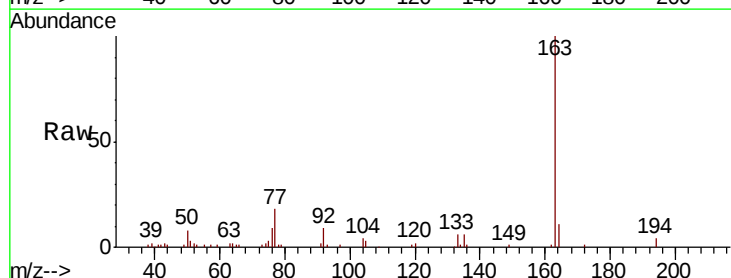


Abundance Ion 172.00 (171.70 to 172.70): E  
2500000  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

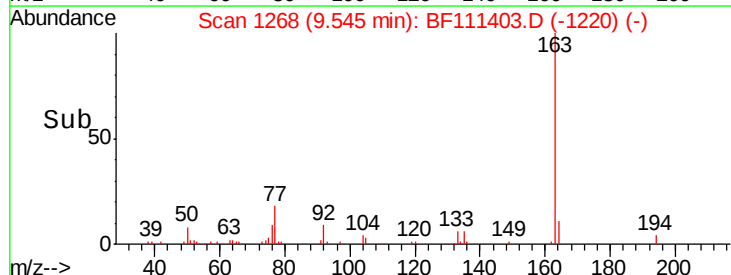
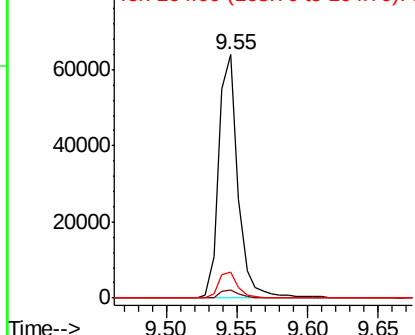


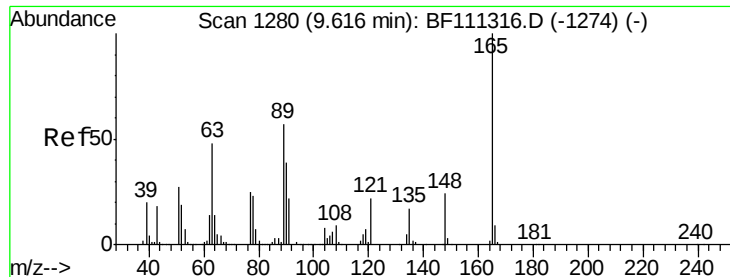
#50  
Dimethylphthalate  
Concen: 2.214 ng  
RT: 9.55 min Scan# 1268  
Delta R.T. -0.02 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

Tgt Ion:163 Resp: 60909  
Ion Ratio Lower Upper  
163 100  
194 3.5 3.0 4.6  
164 10.8 8.9 13.3



Abundance Ion 163.00 (162.70 to 163.70): E  
80000  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 7.810 ng

RT: 9.83 min Scan# 1316

Delta R.T. 0.21 min

Lab File: BF111403.D

Acq: 14 Dec 2018 7:34

Instrument :

BNA\_F

ClientSampleId :

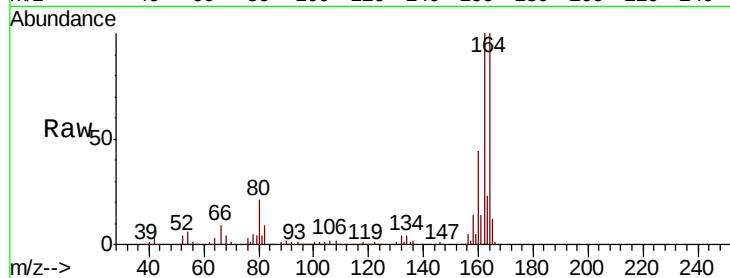
Tot Ion:165 Resp: 47621

Ion Ratio Lower Upper

165 100

63 1.2 40.5 60.7#

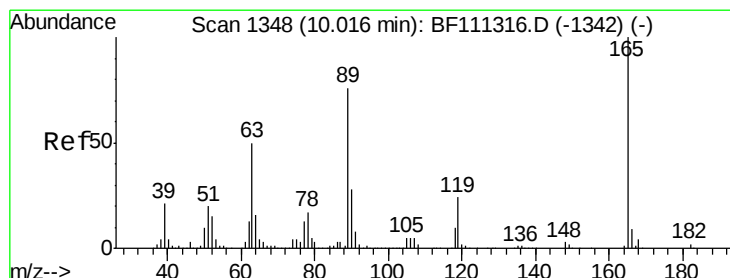
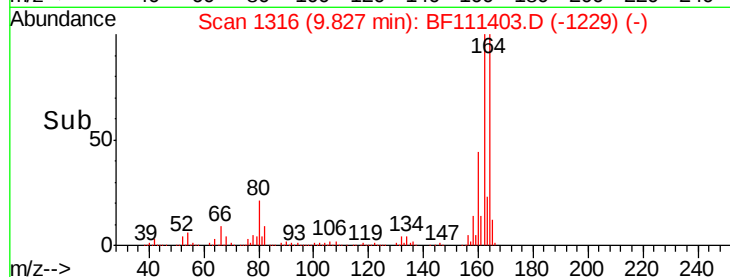
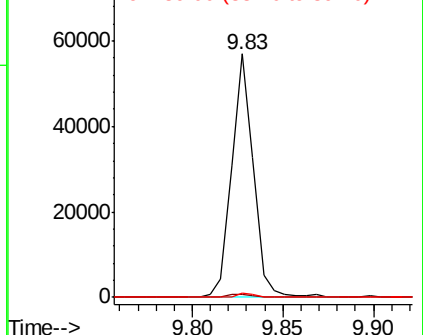
89 1.7 40.0 60.0#



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: 6.094 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.19 min

Lab File: BF111403.D

Acq: 14 Dec 2018 7:34

Tgt Ion:165 Resp: 47621

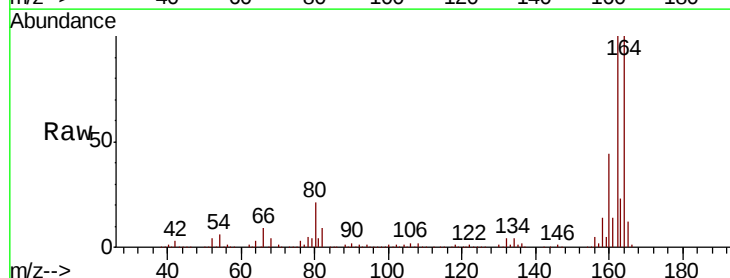
Ion Ratio Lower Upper

165 100

63 1.2 34.6 52.0#

89 1.7 56.2 84.4#

182 0.0 1.8 2.6#

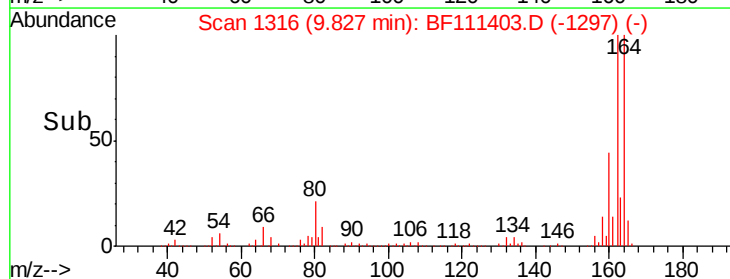
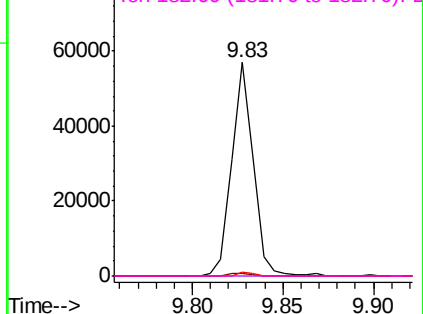


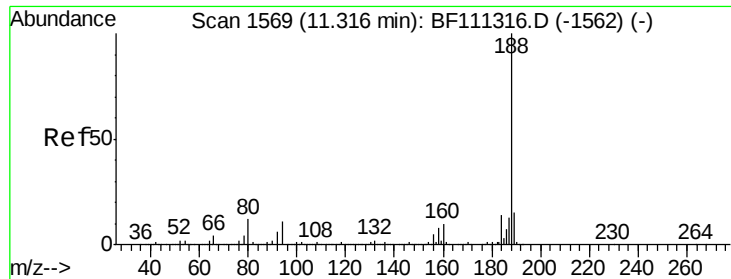
Abundance Ion 165.00 (164.70 to 165.70): E

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

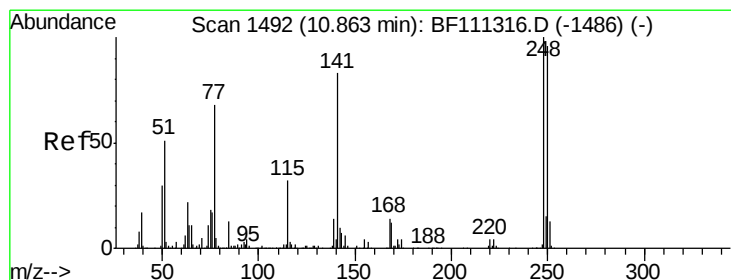
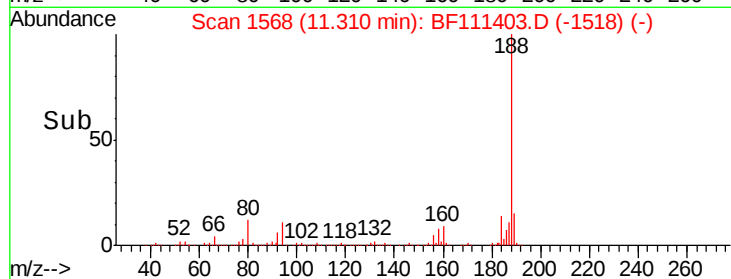
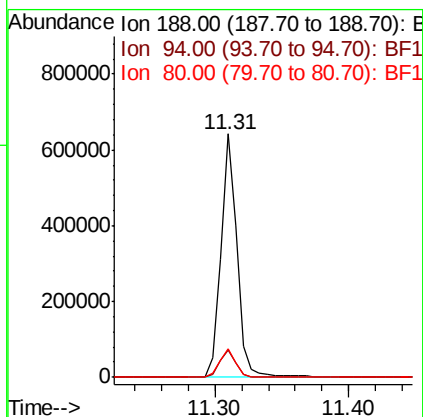
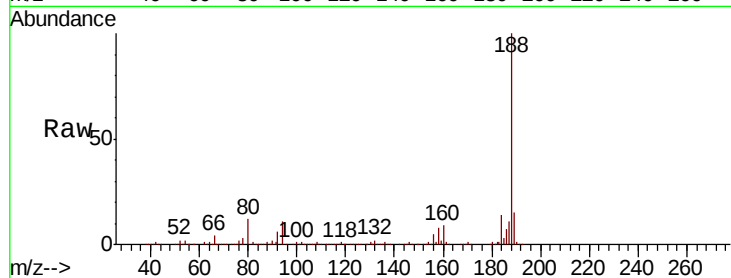




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.31 min Scan# 1568  
Delta R.T. -0.01 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

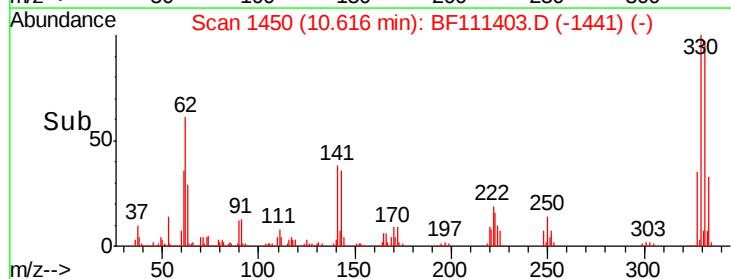
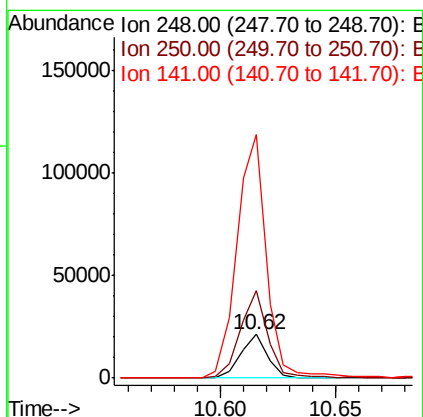
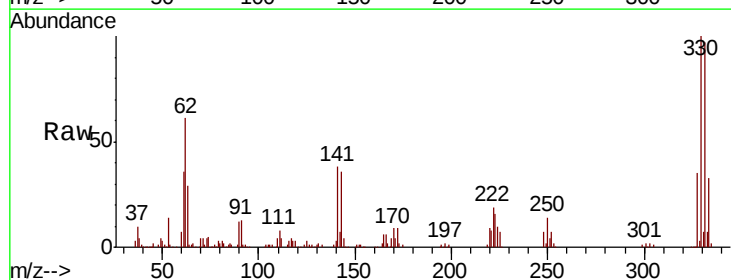
Instrument :  
BNA\_F  
ClientSampleId :

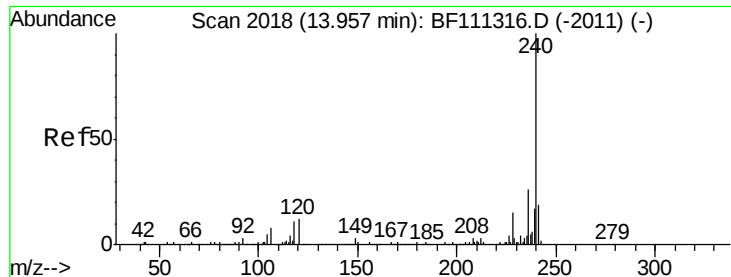
Tot Ion:188 Resp: 550967  
Ion Ratio Lower Upper  
188 100  
94 11.1 9.6 14.4  
80 11.6 9.8 14.6



#67  
4-Bromophenyl-phenylether  
Concen: 2.878 ng  
RT: 10.62 min Scan# 1450  
Delta R.T. -0.25 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

Tgt Ion:248 Resp: 17653  
Ion Ratio Lower Upper  
248 100  
250 200.9 77.0 115.4#  
141 556.1 63.0 94.6#

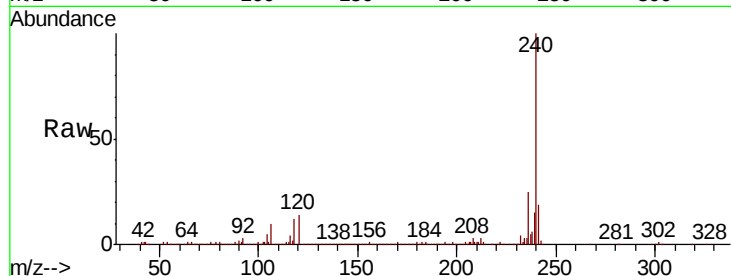




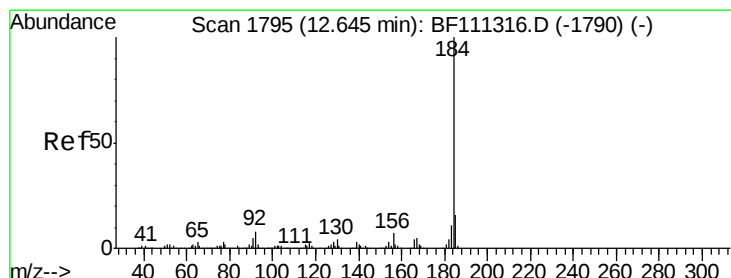
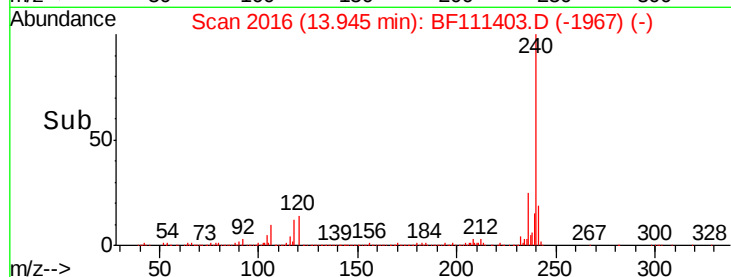
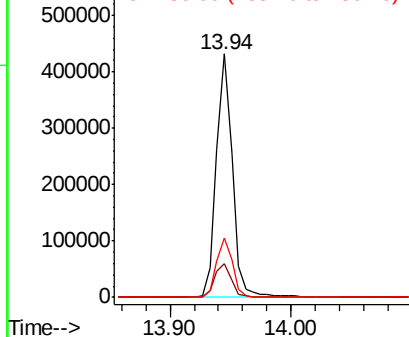
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.94 min Scan# 2016  
Delta R.T. -0.01 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 14.0  | 12.2  | 18.2  |
| 236     | 24.6  | 20.2  | 30.2  |

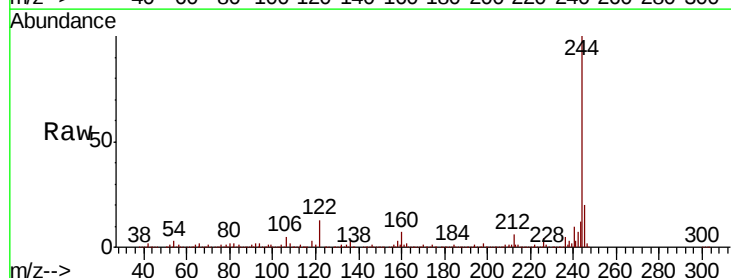


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

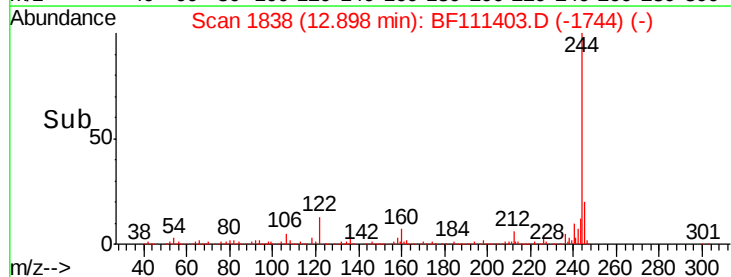
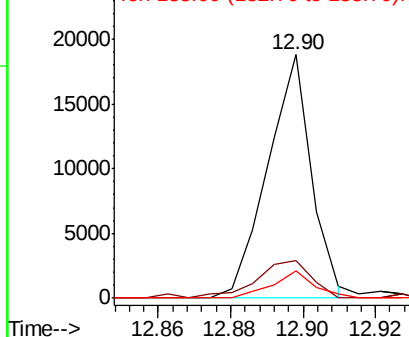


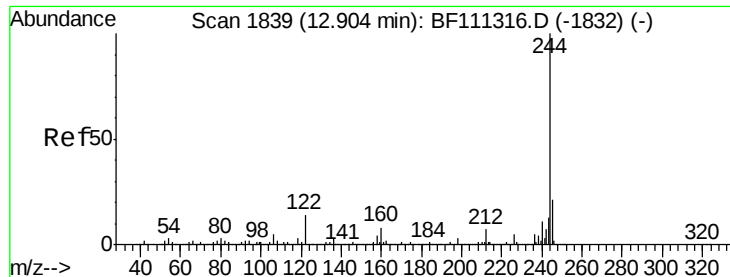
#77  
Benzidine  
Concen: 2.129 ng  
RT: 12.90 min Scan# 1838  
Delta R.T. 0.25 min  
Lab File: BF111403.D  
Acq: 14 Dec 2018 7:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 15.5  | 13.0  | 19.6  |
| 183     | 11.4  | 9.3   | 13.9  |



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 79.157 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.01 min

Lab File: BF111403.D

Acq: 14 Dec 2018 7:34

Instrument :

BNA\_F

ClientSampleId :

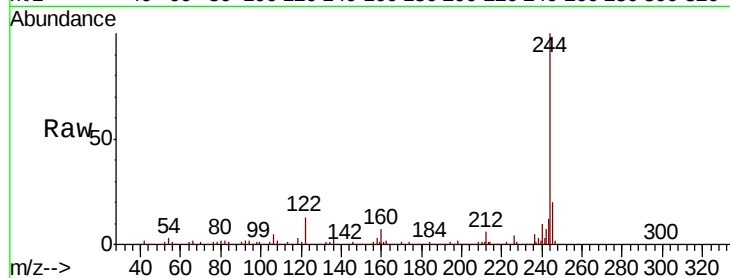
Tot Ion:244 Resp: 1416940

Ion Ratio Lower Upper

244 100

212 6.2 5.7 8.5

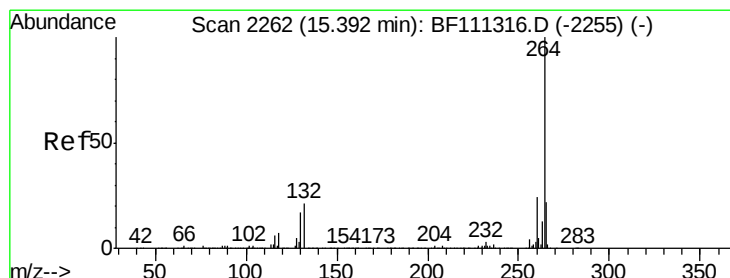
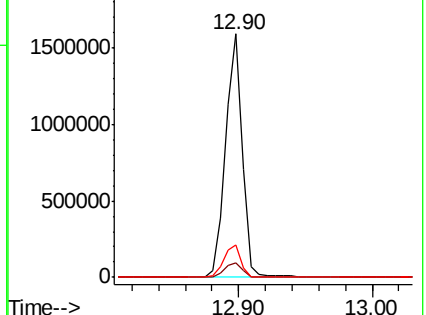
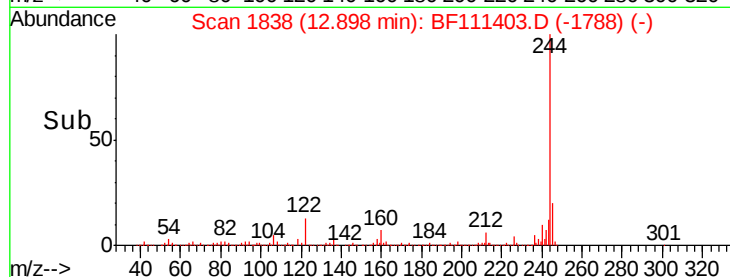
122 13.4 13.1 19.7



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: 15.38 min Scan# 2260

Delta R.T. -0.01 min

Lab File: BF111403.D

Acq: 14 Dec 2018 7:34

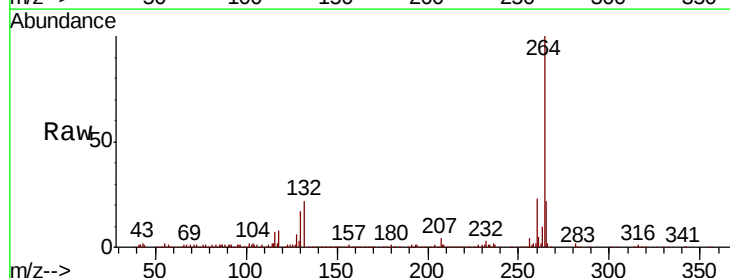
Tgt Ion:264 Resp: 294018

Ion Ratio Lower Upper

264 100

260 23.0 18.3 27.5

265 21.6 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

