

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031219\  
 Data File : BF113011.D  
 Acq On : 12 Mar 2019 19:07  
 Operator : JU/SJ  
 Sample : K1846-03 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-2

Quant Time: Mar 13 03:58:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 Response via : Initial Calibration

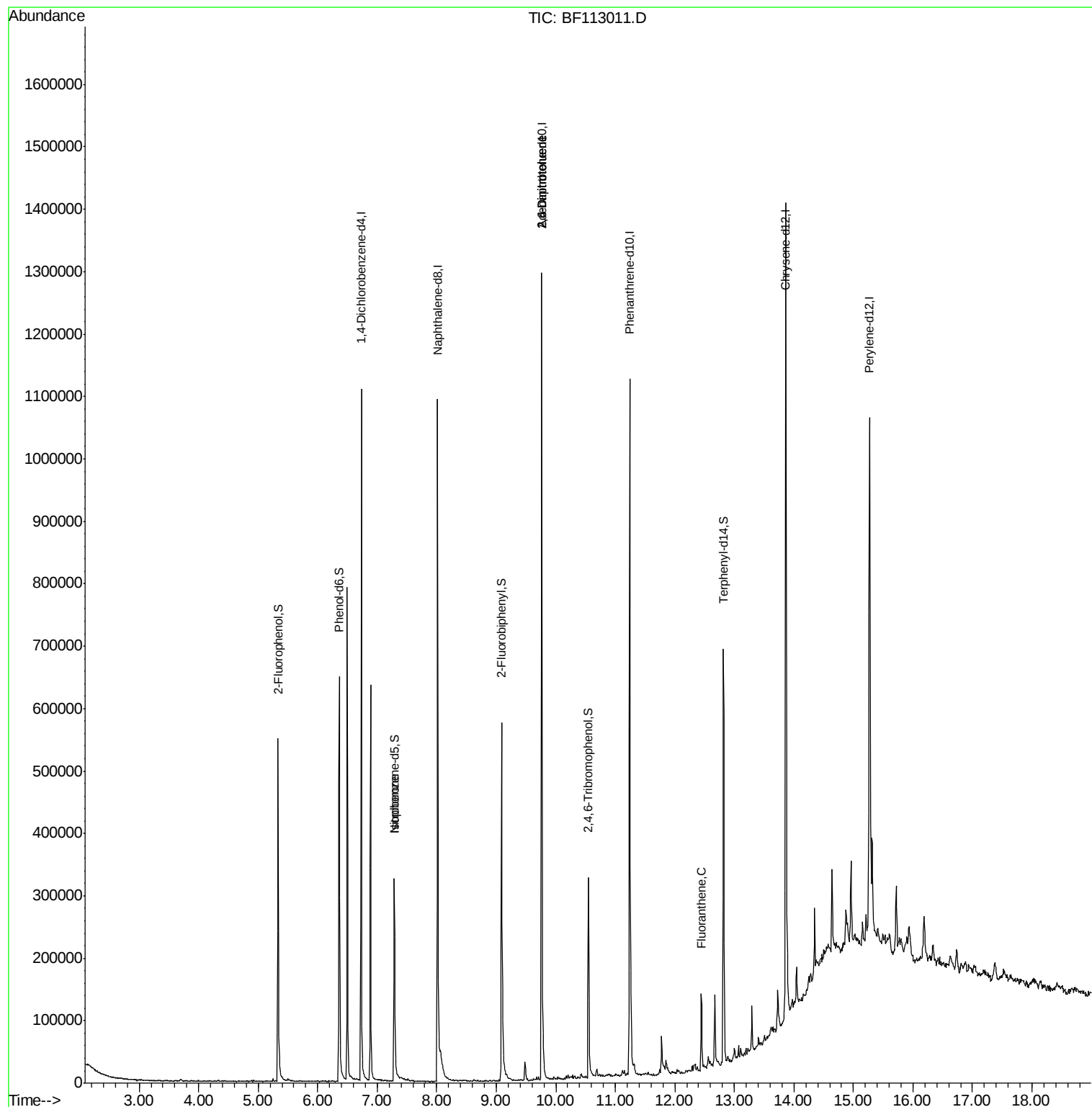
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 182713   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.02  | 136  | 683930   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.76  | 164  | 292218   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.24 | 188  | 507156   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.86 | 240  | 530009   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.27 | 264  | 447202   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 185531   | 15.80 | ng    | -0.01    |
| 7) Phenol-d6                | 6.36  | 99   | 245172   | 16.62 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 130929   | 11.46 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 57782    | 18.63 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 272986   | 11.45 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.82 | 244  | 254368   | 9.30  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.29  | 82   | 128535   | 5.220 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene      | 9.76  | 165  | 37266    | 8.306 | ng    | # 18     |
| 57) 2,4-Dinitrotoluene      | 9.76  | 165  | 37267    | 6.682 | ng    | # 18     |
| 75) Fluoranthene            | 12.44 | 202  | 55668    | 2.059 | ng    | 99       |

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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 13 03:42:55 2019  
Response via : Initial Calibration



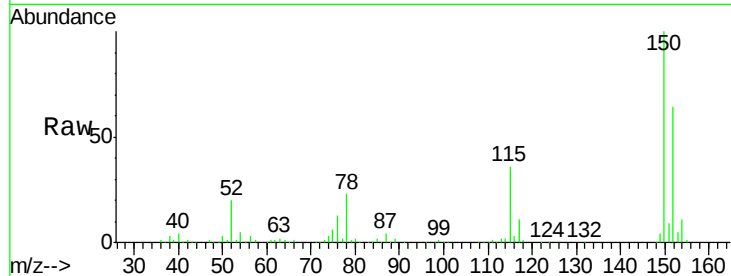


#1

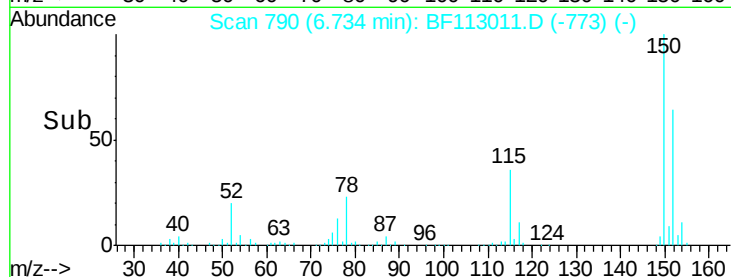
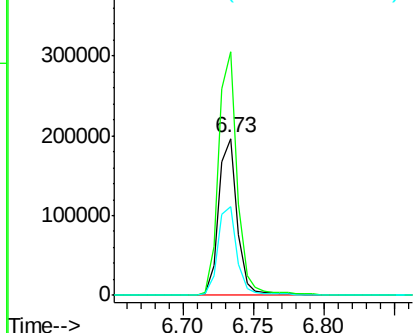
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: BF113011.D  
Acq: 12 Mar 2019 19:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

Tgt Ion:152 Resp: 182713  
Ion Ratio Lower Upper  
152 100  
150 155.5 124.2 186.2  
115 56.3 48.2 72.4



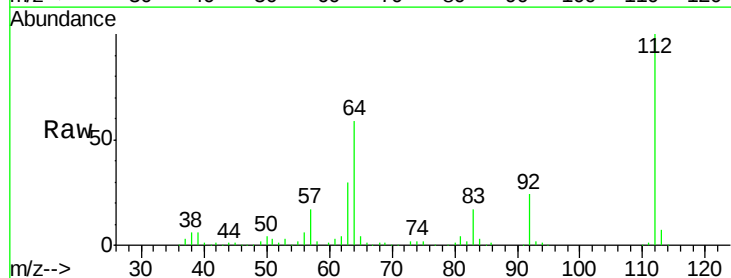
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



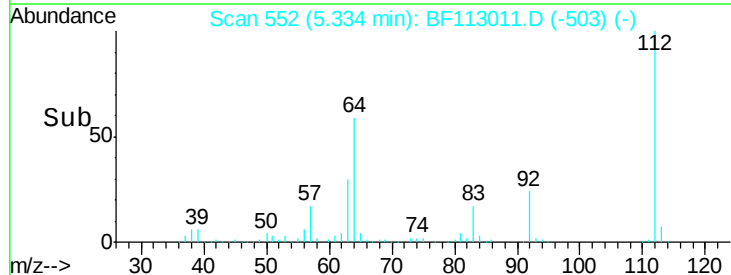
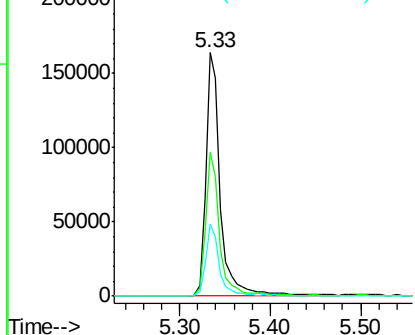
#5

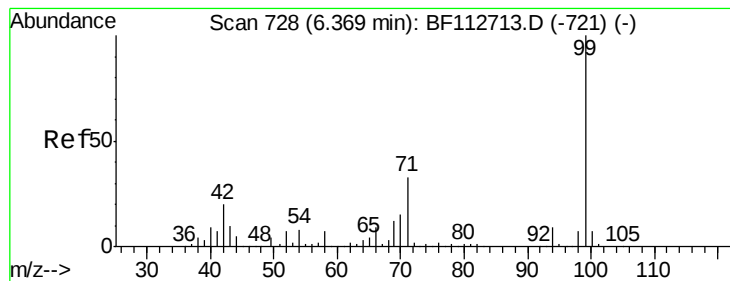
2-Fluorophenol  
Concen: 15.795 ng  
RT: 5.33 min Scan# 552  
Delta R.T. -0.01 min  
Lab File: BF113011.D  
Acq: 12 Mar 2019 19:07

Tgt Ion:112 Resp: 185531  
Ion Ratio Lower Upper  
112 100  
64 58.9 47.6 71.4  
63 29.7 24.4 36.6



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: 16.616 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113011.D

Acq: 12 Mar 2019 19:07

Instrument :

BNA\_F

ClientSampleId :

TP-2

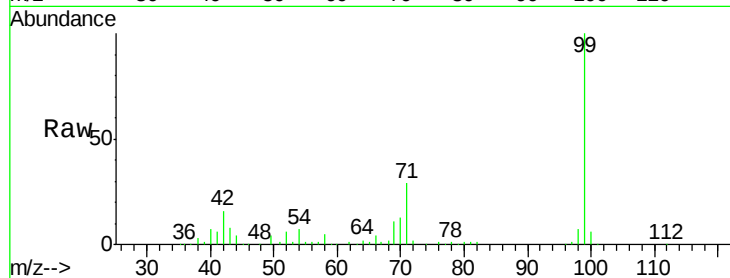
Tgt Ion: 99 Resp: 245172

Ion Ratio Lower Upper

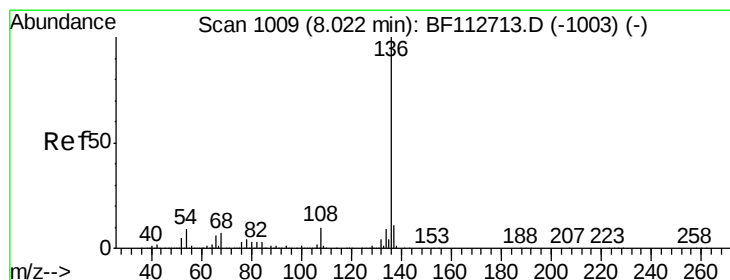
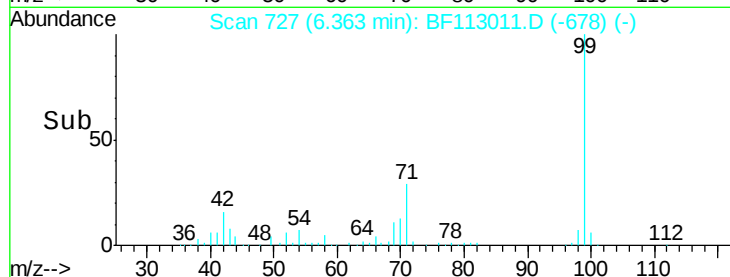
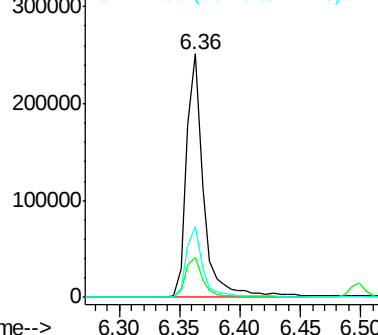
99 100

42 16.5 16.3 24.5

71 29.1 26.2 39.4



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.02 min Scan# 1008

Delta R.T. -0.00 min

Lab File: BF113011.D

Acq: 12 Mar 2019 19:07

Tgt Ion: 136 Resp: 683930

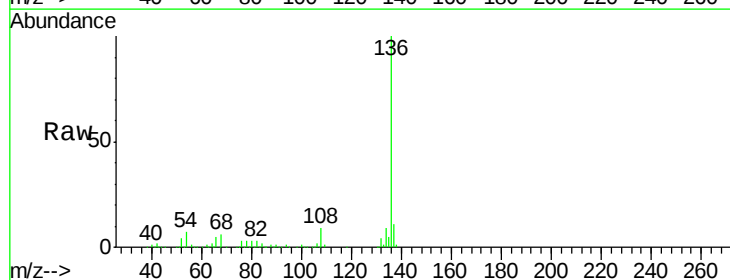
Ion Ratio Lower Upper

136 100

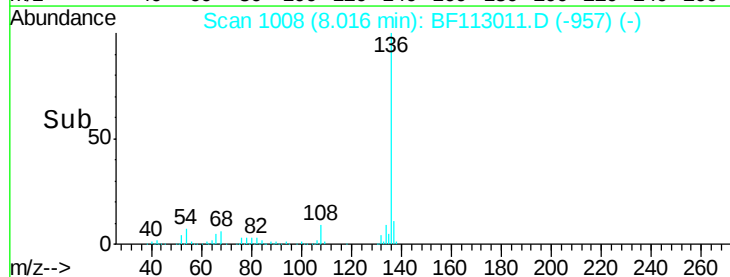
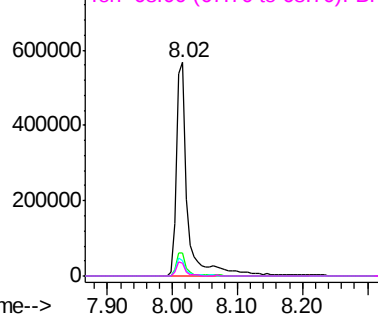
137 10.9 8.9 13.3

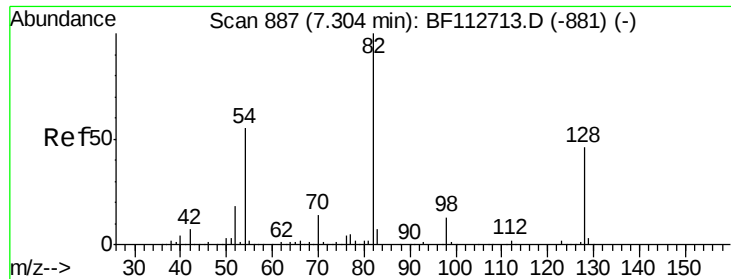
54 7.3 7.3 10.9

68 5.8 5.4 8.2



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

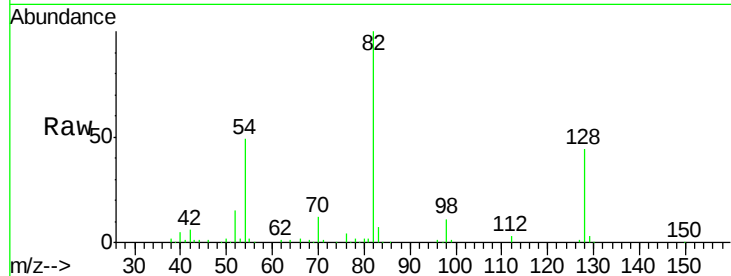




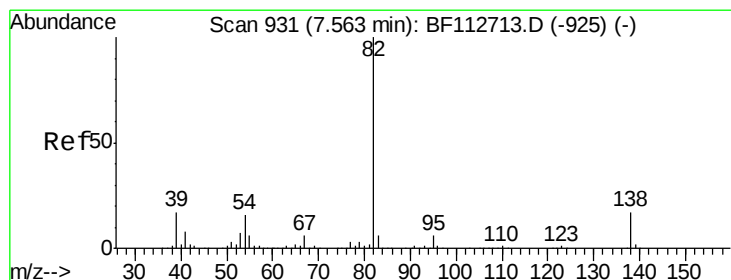
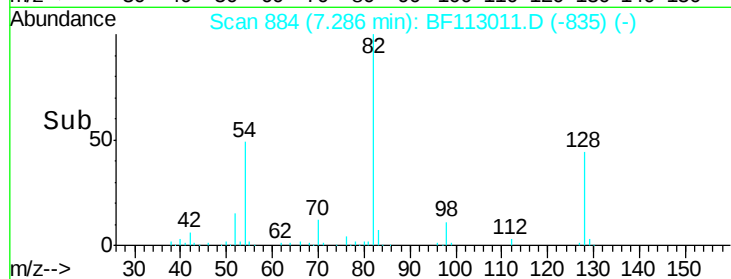
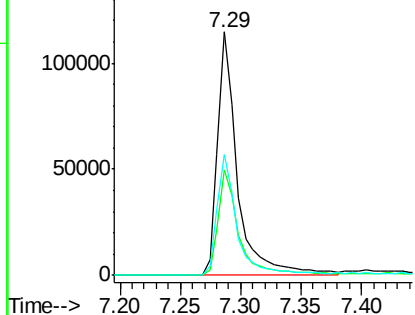
#23  
Nitrobenzene-d5  
Concen: 11.455 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF113011.D  
Acq: 12 Mar 2019 19:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.5  | 36.3  | 54.5  |
| 54      | 49.5  | 43.7  | 65.5  |

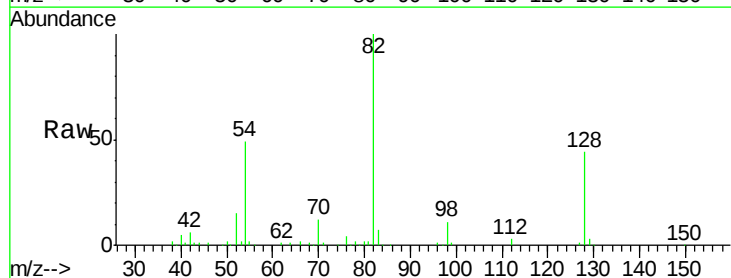


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

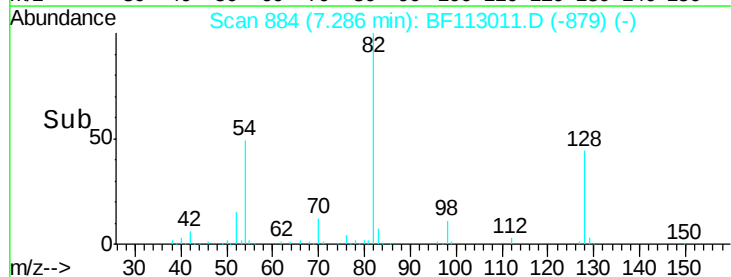
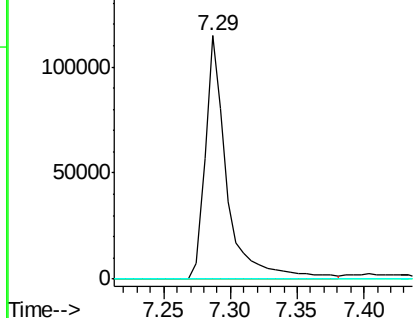


#25  
Isophorone  
Concen: 5.220 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.27 min  
Lab File: BF113011.D  
Acq: 12 Mar 2019 19:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.2   | 7.8#  |
| 138     | 0.0   | 13.8  | 20.8# |



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

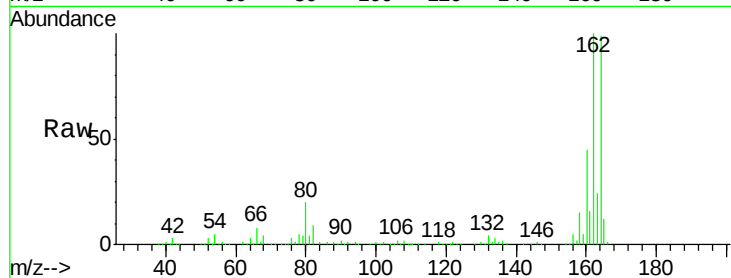




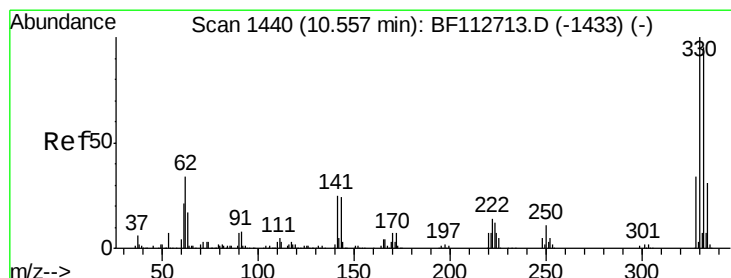
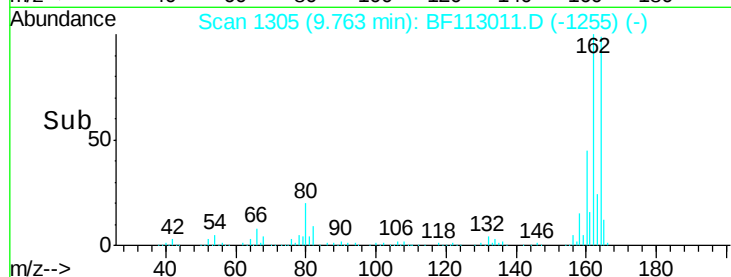
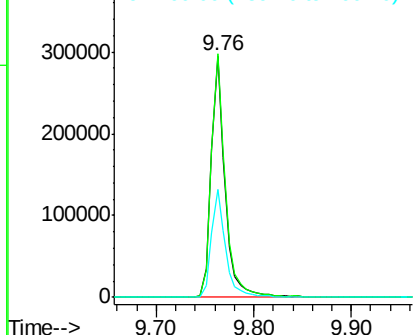
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF113011.D  
Acq: 12 Mar 2019 19:07

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2

Tgt Ion:164 Resp: 292218  
Ion Ratio Lower Upper  
164 100  
162 100.8 80.6 120.8  
160 44.9 36.0 54.0

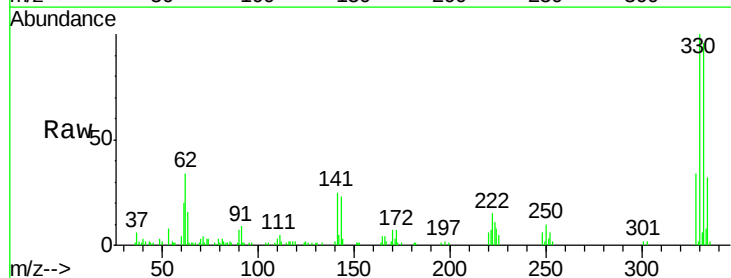


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

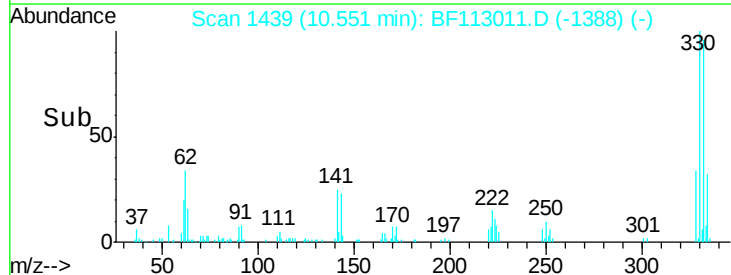
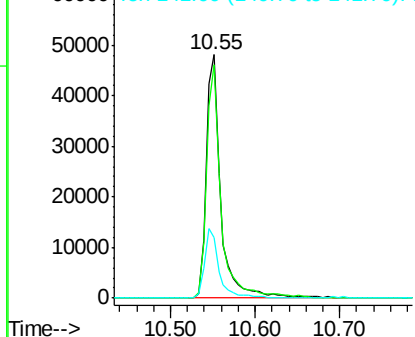


#42  
2,4,6-Tribromophenol  
Concen: 18.626 ng  
RT: 10.55 min Scan# 1439  
Delta R.T. -0.00 min  
Lab File: BF113011.D  
Acq: 12 Mar 2019 19:07

Tgt Ion:330 Resp: 57782  
Ion Ratio Lower Upper  
330 100  
332 94.7 76.2 114.4  
141 28.1 27.0 40.6



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

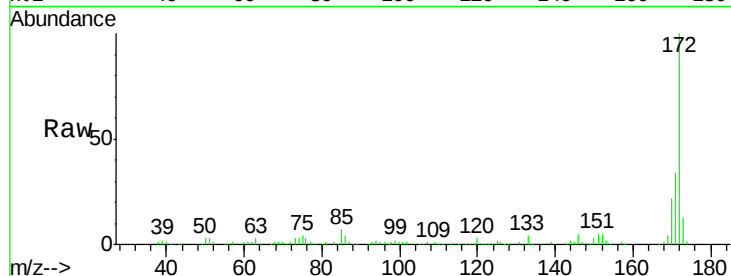




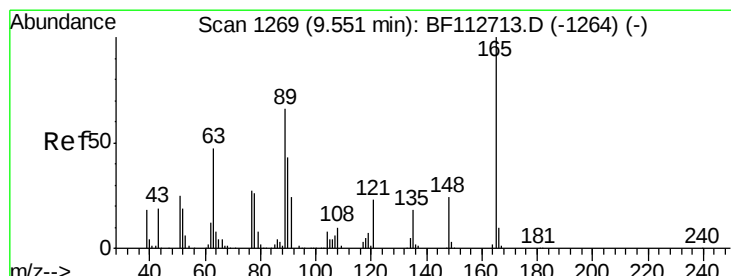
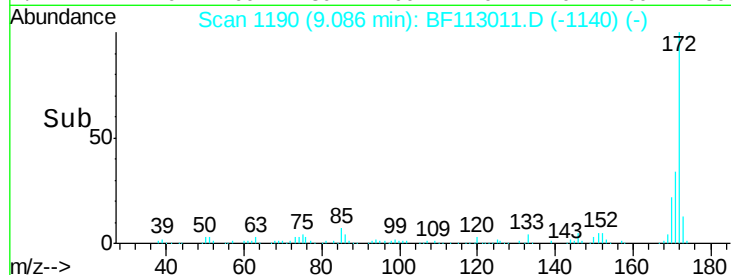
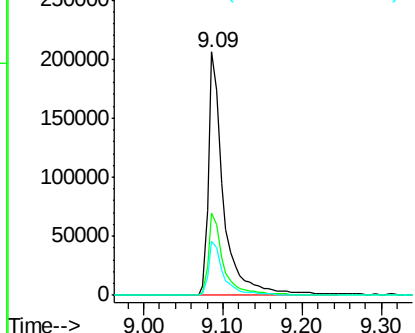
#45  
 2-Fluorobiphenyl  
 Concen: 11.449 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF113011.D  
 Acq: 12 Mar 2019 19:07

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-2

Tgt Ion:172 Resp: 272986  
 Ion Ratio Lower Upper  
 172 100  
 171 33.7 29.0 43.4  
 170 22.2 20.0 30.0

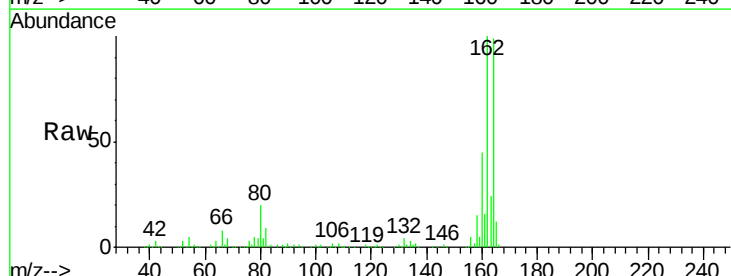


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

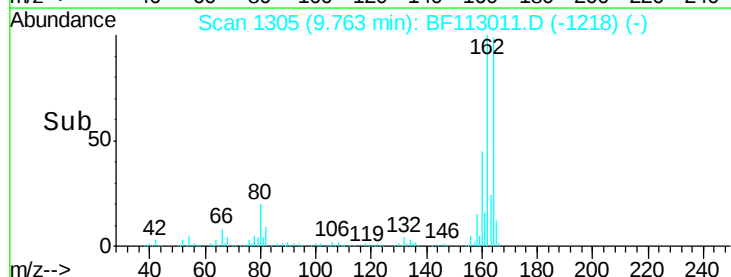
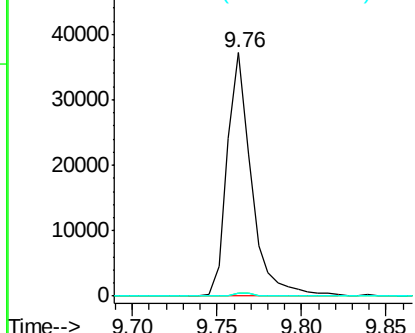


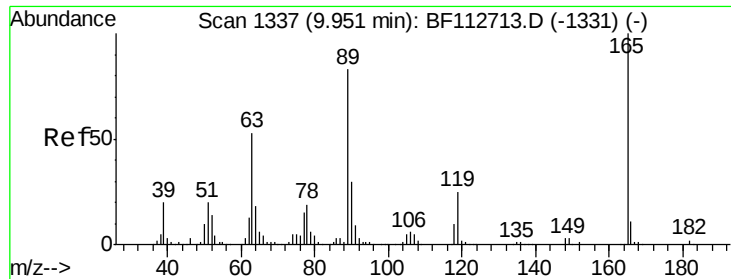
#51  
 2,6-Dinitrotoluene  
 Concen: 8.306 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. 0.21 min  
 Lab File: BF113011.D  
 Acq: 12 Mar 2019 19:07

Tgt Ion:165 Resp: 37266  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 54.1 81.1#  
 89 1.2 52.8 79.2#



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

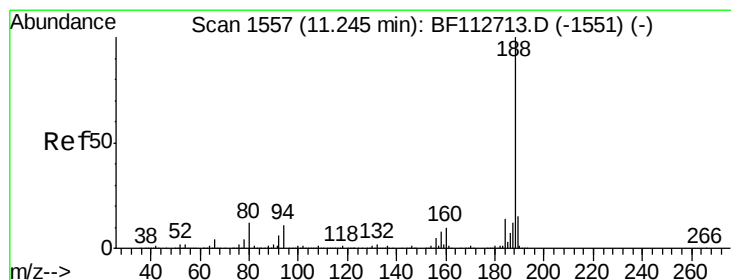
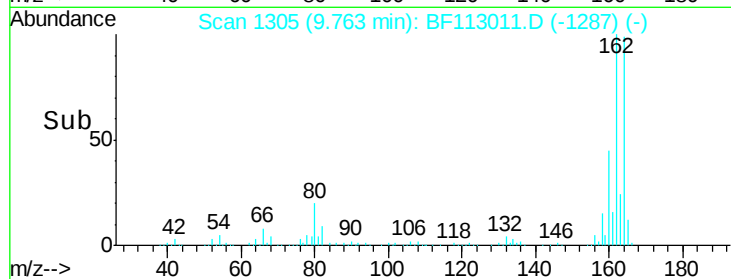
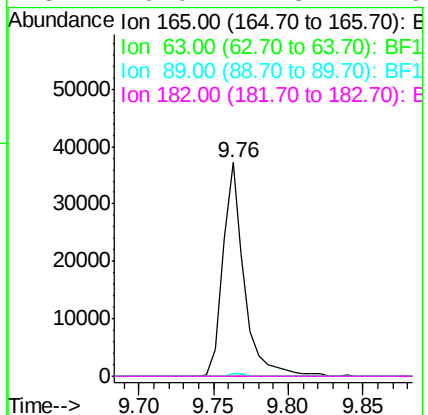
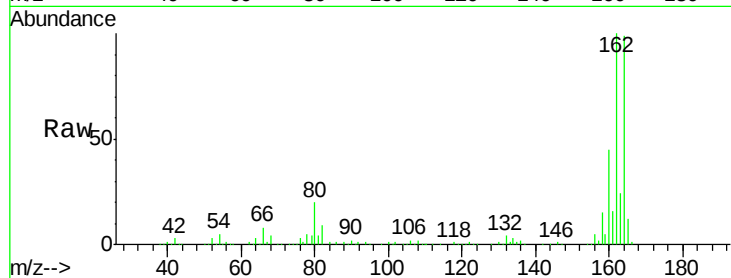




#57  
 2,4-Dinitrotoluene  
 Concen: 6.682 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.19 min  
 Lab File: BF113011.D  
 Acq: 12 Mar 2019 19:07

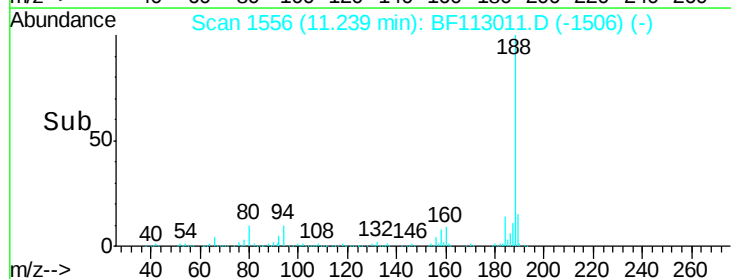
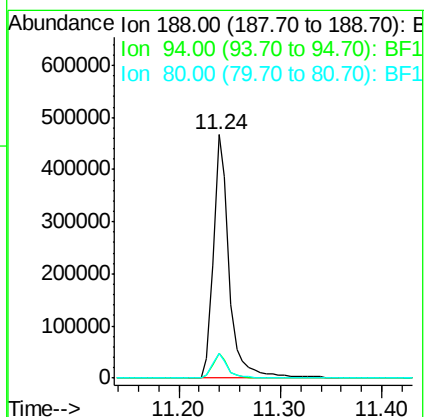
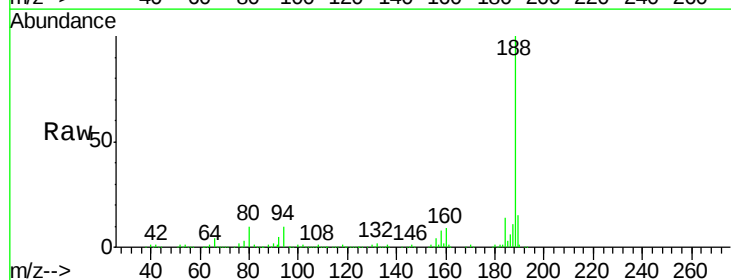
Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-2

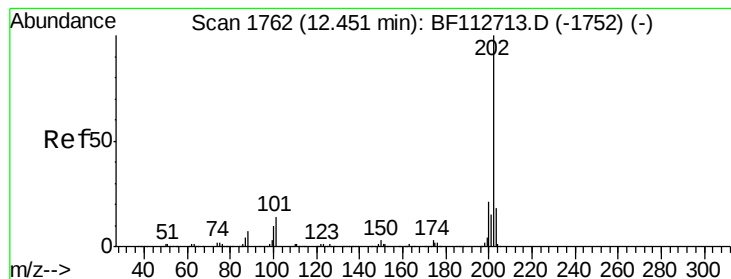
Tgt Ion:165 Resp: 37267  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 42.2 63.2#  
 89 1.2 66.2 99.4#  
 182 0.0 1.8 2.6#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.24 min Scan# 1556  
 Delta R.T. -0.01 min  
 Lab File: BF113011.D  
 Acq: 12 Mar 2019 19:07

Tgt Ion:188 Resp: 507156  
 Ion Ratio Lower Upper  
 188 100  
 94 10.3 9.0 13.4  
 80 10.3 9.2 13.8





#75

Fluoranthene

Concen: 2.059 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF113011.D

Acq: 12 Mar 2019 19:07

Instrument :

BNA\_F

ClientSampleId :

TP-2

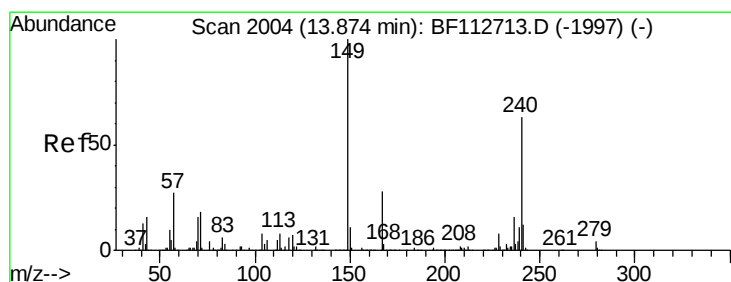
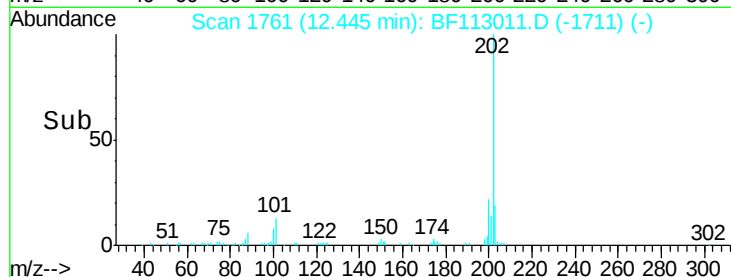
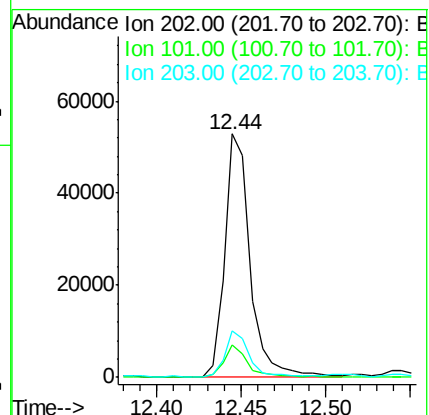
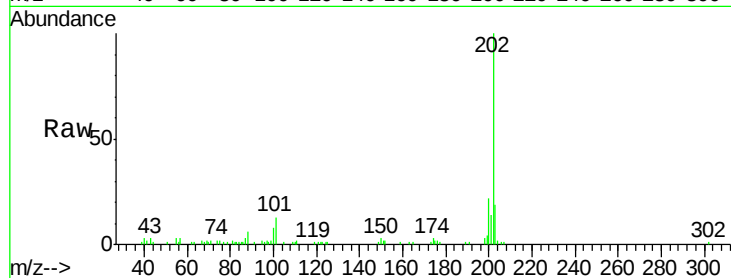
Tgt Ion:202 Resp: 55668

Ion Ratio Lower Upper

202 100

101 13.4 0.0 33.8

203 19.0 0.0 38.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF113011.D

Acq: 12 Mar 2019 19:07

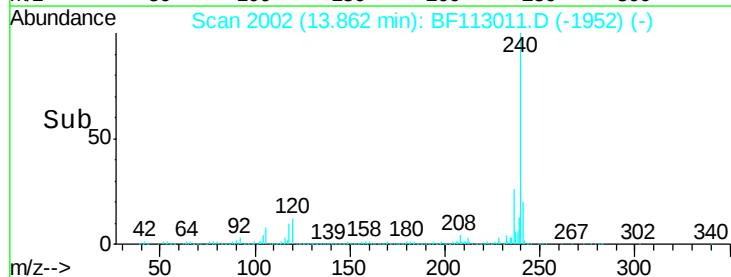
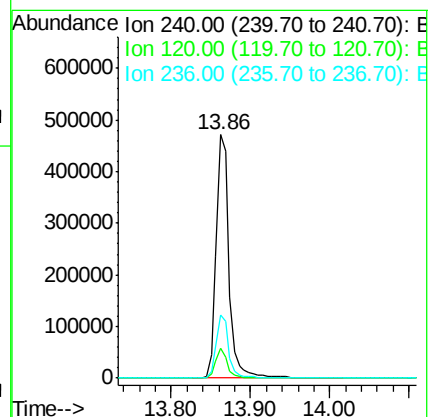
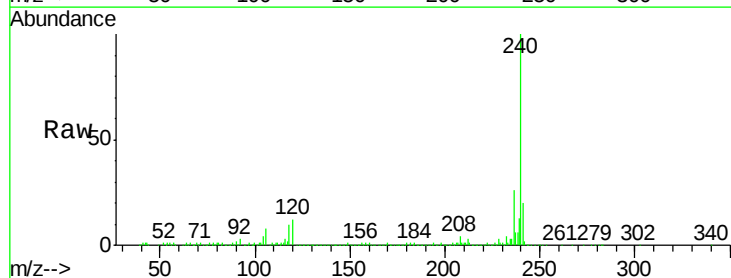
Tgt Ion:240 Resp: 530009

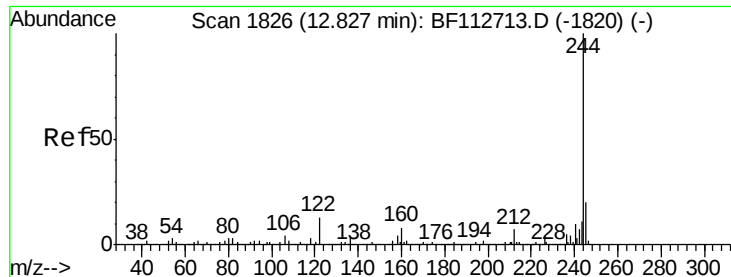
Ion Ratio Lower Upper

240 100

120 12.0 8.9 13.3

236 26.2 20.7 31.1





#79

Terphenyl-d14

Concen: 9.303 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF113011.D

Acq: 12 Mar 2019 19:07

Instrument :

BNA\_F

ClientSampleId :

TP-2

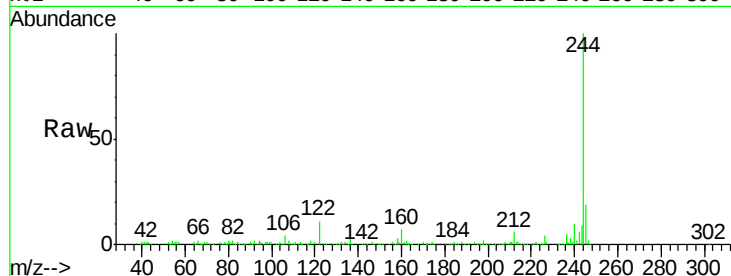
Tgt Ion:244 Resp: 254368

Ion Ratio Lower Upper

244 100

212 6.1 5.6 8.4

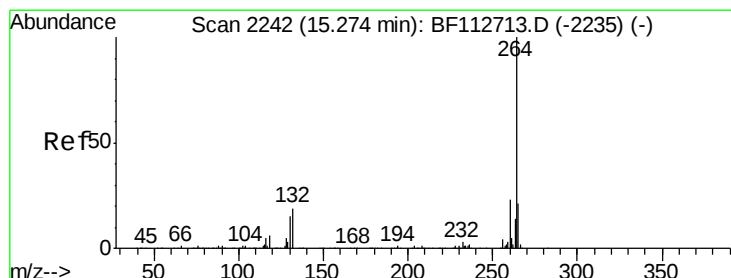
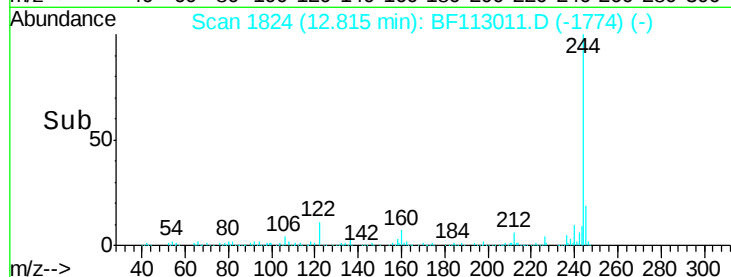
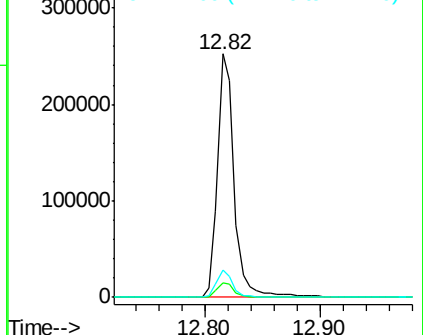
122 11.4 10.5 15.7



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: 15.27 min Scan# 2242

Delta R.T. -0.00 min

Lab File: BF113011.D

Acq: 12 Mar 2019 19:07

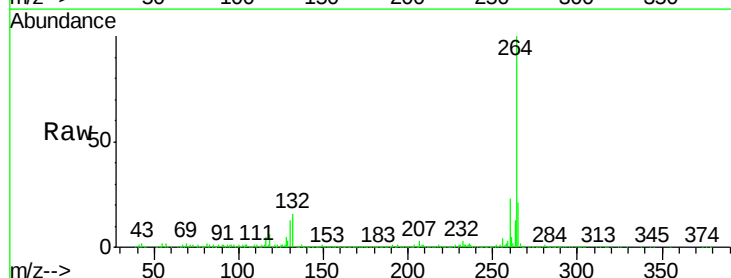
Tgt Ion:264 Resp: 447202

Ion Ratio Lower Upper

264 100

260 23.3 18.7 28.1

265 21.2 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

