

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031819\  
 Data File : BF113102.D  
 Acq On : 18 Mar 2019 20:39  
 Operator : JU/SJ  
 Sample : K1691-11 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-031519-B

Quant Time: Mar 19 04:51:51 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

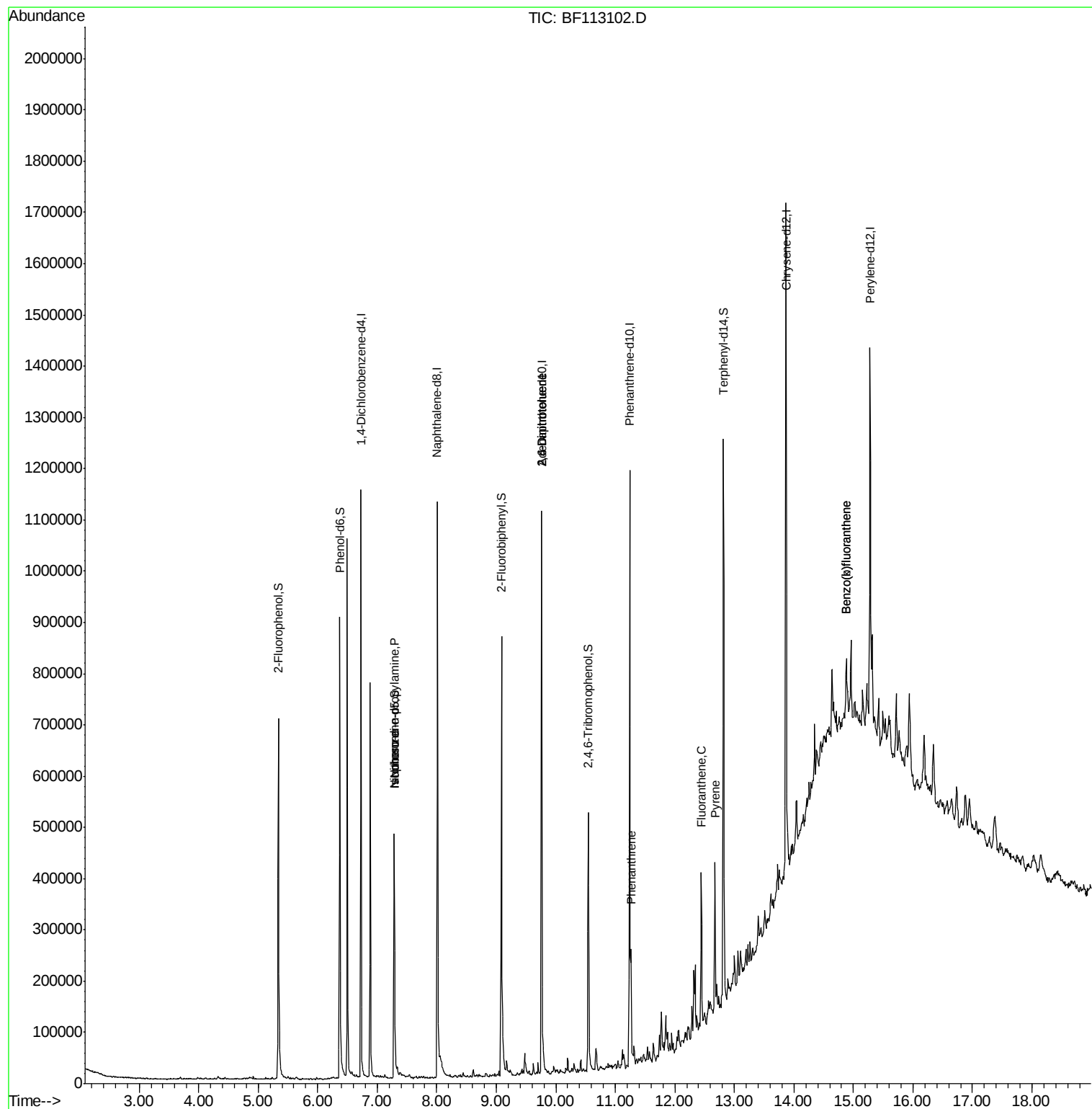
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 162376   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.01  | 136  | 602662   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.76  | 164  | 260834   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.24 | 188  | 473094   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12               | 13.87 | 240  | 470583   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12               | 15.28 | 264  | 355312   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 234884   | 22.50 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.37  | 99   | 331165   | 25.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 180238   | 17.90 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.55 | 330  | 75333    | 27.21 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.09  | 172  | 383206   | 19.27 | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.82 | 244  | 401369   | 16.53 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 24289    | 2.925 | ng    | # 78     |
| 25) Isophorone                 | 7.29  | 82   | 180263   | 8.308 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene         | 9.76  | 165  | 33708    | 8.416 | ng    | # 18     |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 34159    | 6.862 | ng    | # 18     |
| 71) Phenanthrene               | 11.26 | 178  | 75556    | 3.210 | ng    | 97       |
| 75) Fluoranthene               | 12.44 | 202  | 126106   | 5.001 | ng    | 96       |
| 78) Pyrene                     | 12.67 | 202  | 124897   | 3.148 | ng    | 98       |
| 88) Benzo(b)fluoranthene       | 14.88 | 252  | 61432    | 2.673 | ng    | # 77     |
| 89) Benzo(k)fluoranthene       | 14.88 | 252  | 61432    | 2.951 | ng    | # 77     |

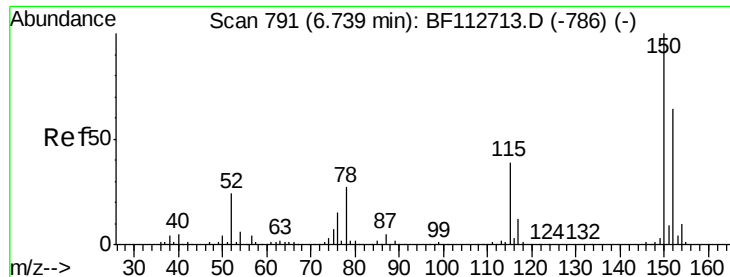
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031819\  
Data File : BF113102.D  
Acq On : 18 Mar 2019 20:39  
Operator : JU/SJ  
Sample : K1691-11 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031519-B

Quant Time: Mar 19 04:51:51 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



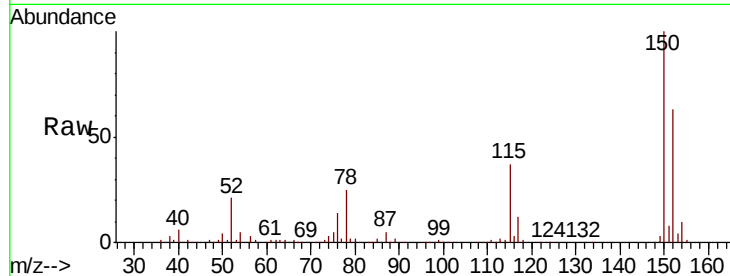


#1

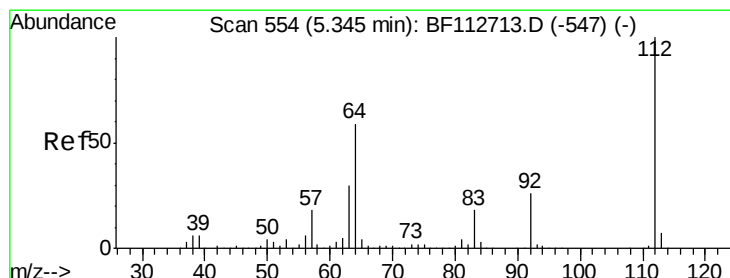
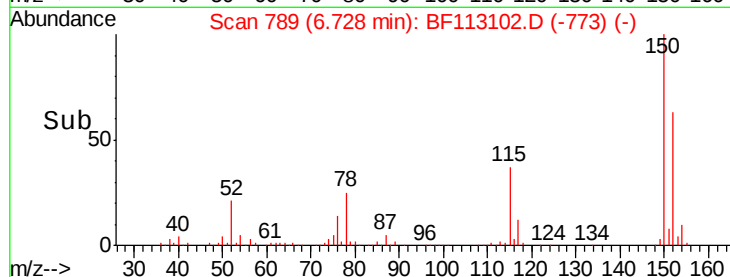
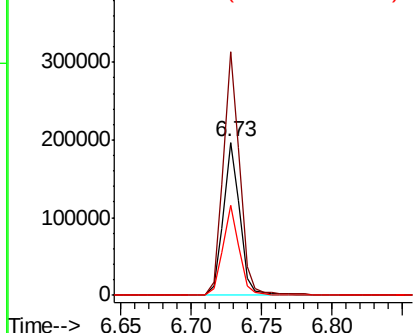
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. -0.01 min  
Lab File: BF113102.D  
Acq: 18 Mar 2019 20:39

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031519-B

Tgt Ion:152 Resp: 162376  
Ion Ratio Lower Upper  
152 100  
150 158.9 124.2 186.2  
115 59.0 48.2 72.4



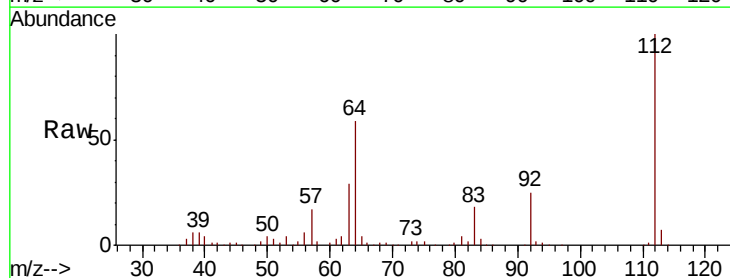
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



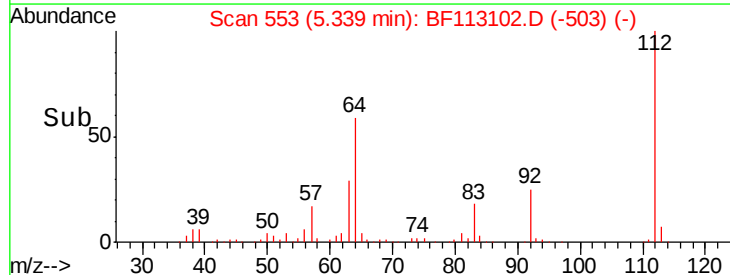
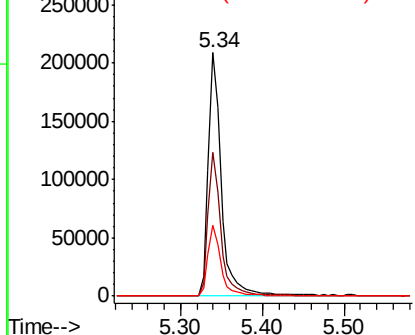
#5

2-Fluorophenol  
Concen: 22.502 ng  
RT: 5.34 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF113102.D  
Acq: 18 Mar 2019 20:39

Tgt Ion:112 Resp: 234884  
Ion Ratio Lower Upper  
112 100  
64 59.1 47.6 71.4  
63 29.1 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: 25.256 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

Instrument :

BNA\_F

ClientSampleId :

CL-01-031519-B

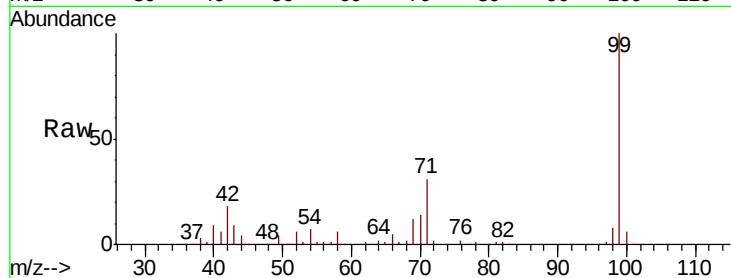
Tgt Ion: 99 Resp: 331165

Ion Ratio Lower Upper

99 100

42 17.7 16.3 24.5

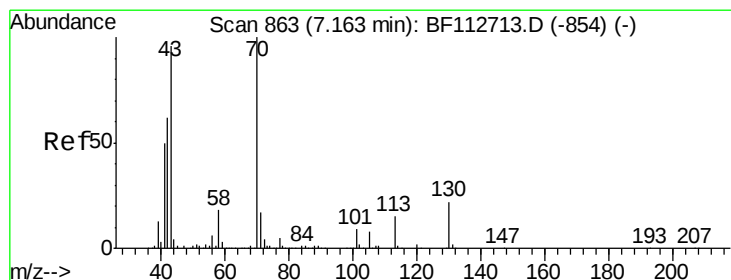
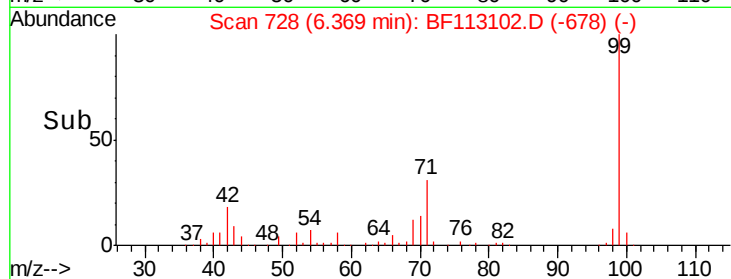
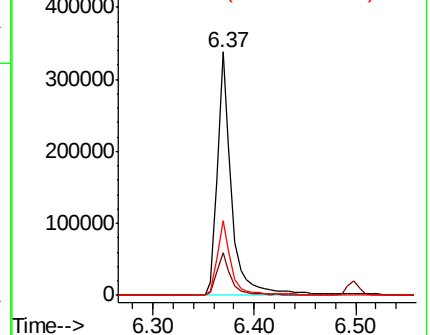
71 30.6 26.2 39.4



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.925 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.13 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

Tgt Ion: 70 Resp: 24289

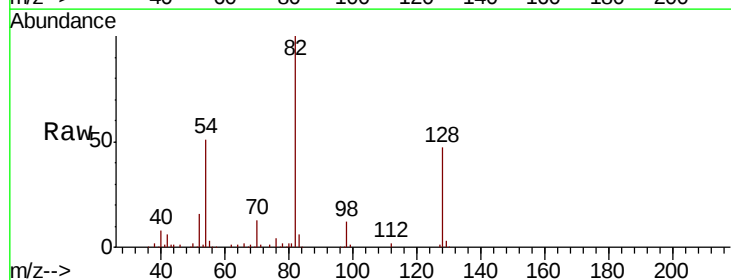
Ion Ratio Lower Upper

70 100

42 50.8 49.9 74.9

101 0.0 7.4 11.2#

130 1.9 17.4 26.2#

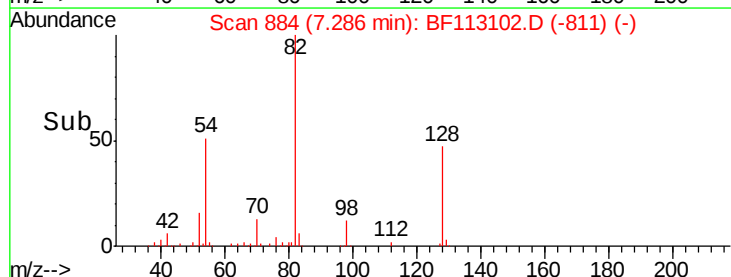
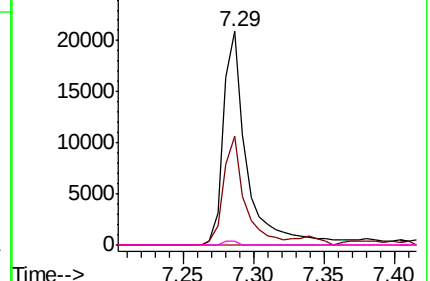


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

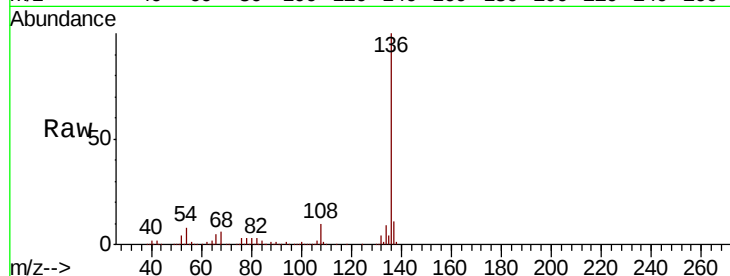




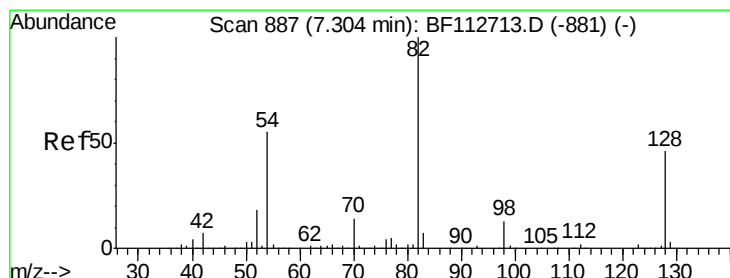
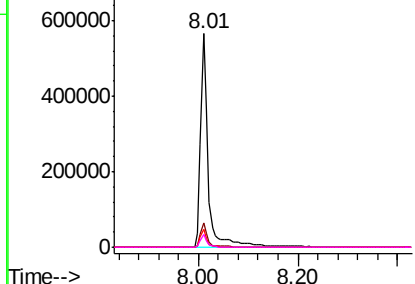
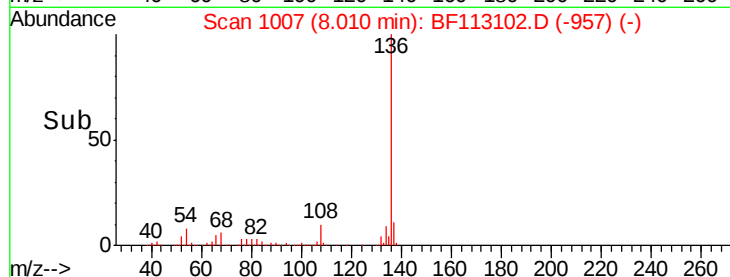
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF113102.D  
Acq: 18 Mar 2019 20:39

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031519-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 602662 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.9   | 13.3   |
| 54       | 8.2   | 7.3   | 10.9   |
| 68       | 5.8   | 5.4   | 8.2    |

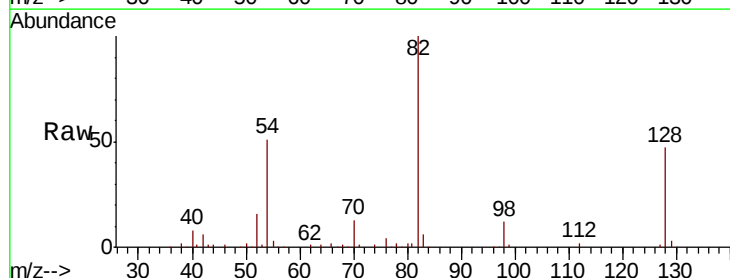


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

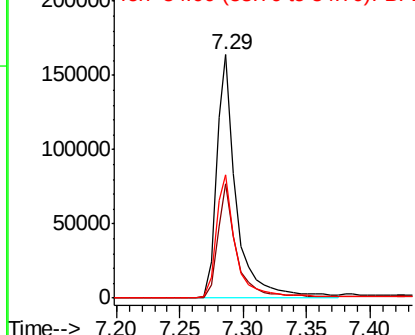
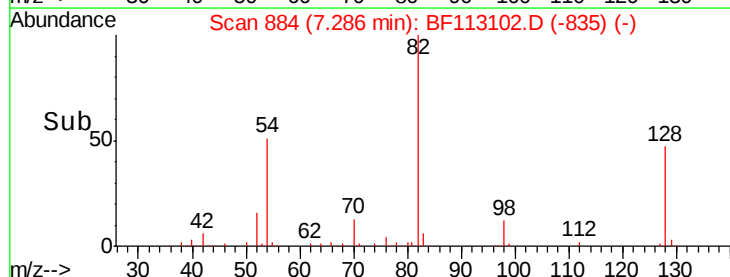


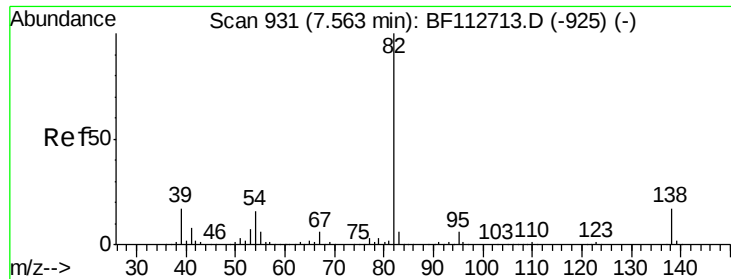
#23  
Nitrobenzene-d5  
Concen: 17.896 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF113102.D  
Acq: 18 Mar 2019 20:39

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 180238 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.0  | 36.3  | 54.5   |
| 54       | 50.6  | 43.7  | 65.5   |



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

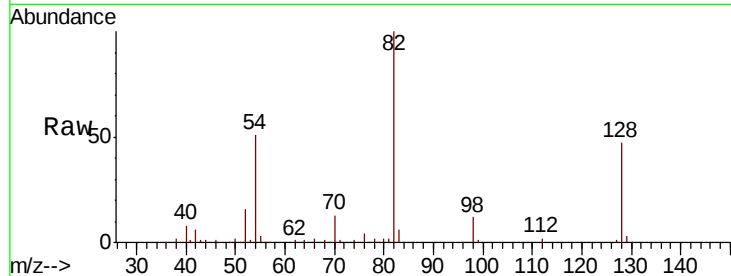




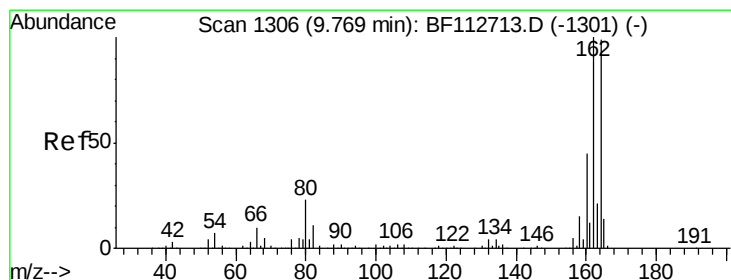
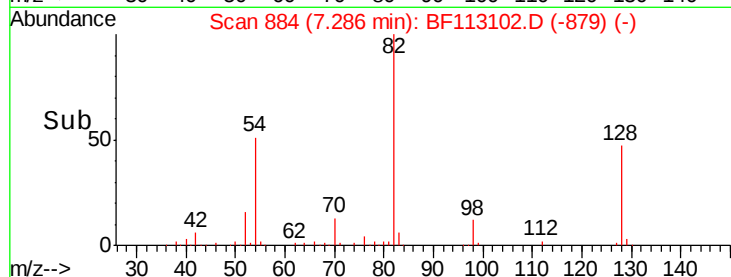
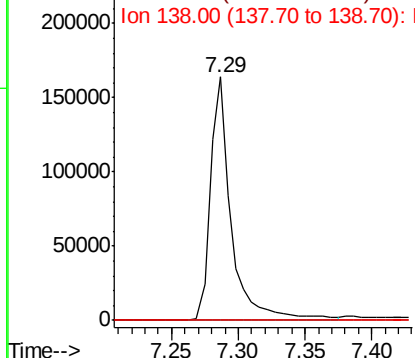
#25  
Isophorone  
Concen: 8.308 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.27 min  
Lab File: BF113102.D  
Acq: 18 Mar 2019 20:39

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031519-B

Tgt Ion: 82 Resp: 180263  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 13.8 20.8#

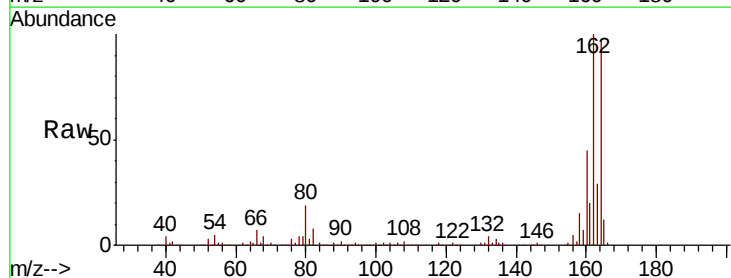


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

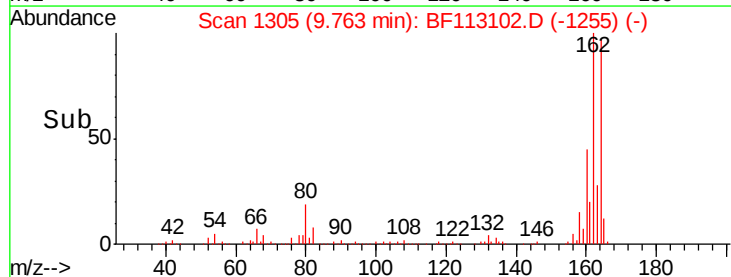
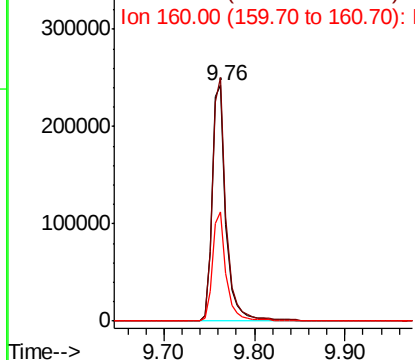


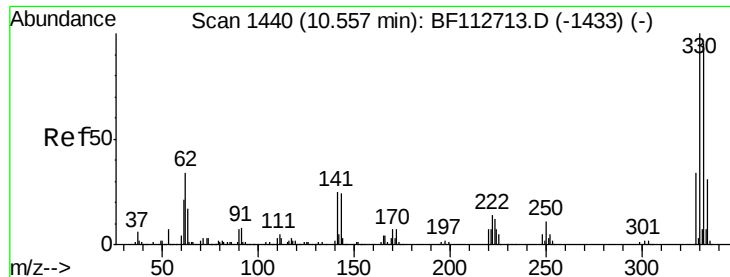
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF113102.D  
Acq: 18 Mar 2019 20:39

Tgt Ion: 164 Resp: 260834  
Ion Ratio Lower Upper  
164 100  
162 103.4 80.6 120.8  
160 46.4 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

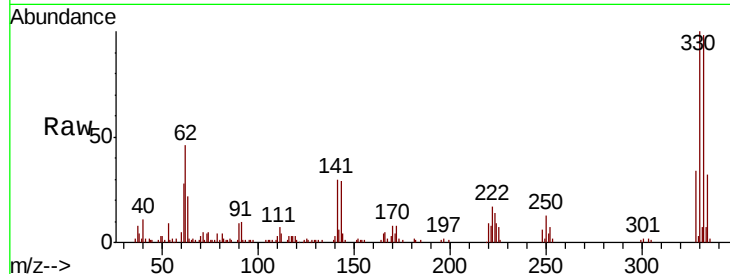




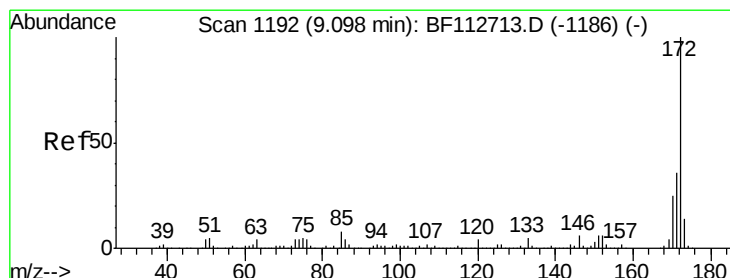
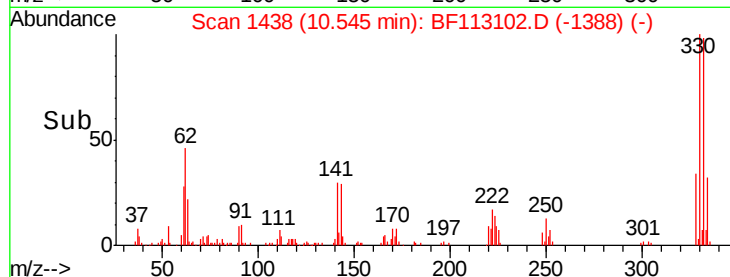
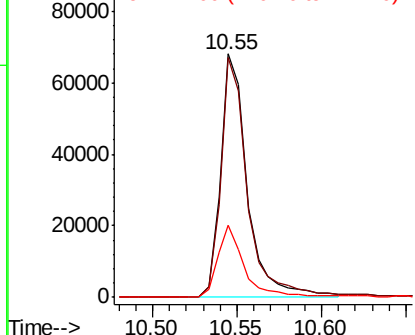
#42  
 2,4,6-Tribromophenol  
 Concen: 27.205 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF113102.D  
 Acq: 18 Mar 2019 20:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-031519-B

Tgt Ion:330 Resp: 75333  
 Ion Ratio Lower Upper  
 330 100  
 332 100.4 76.2 114.4  
 141 30.1 27.0 40.6

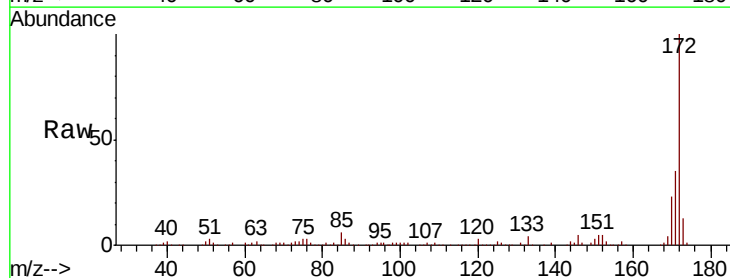


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

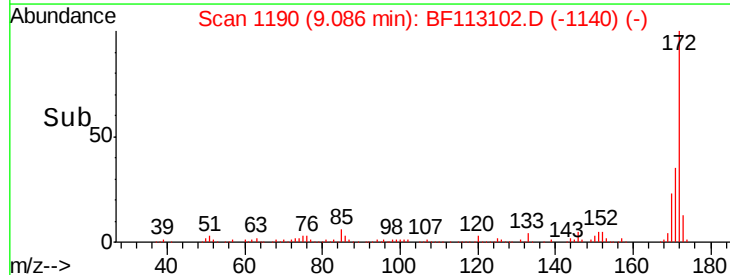
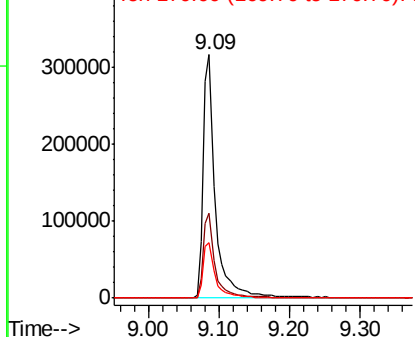


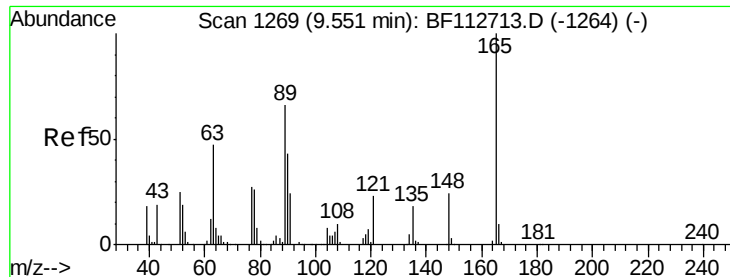
#45  
 2-Fluorobiphenyl  
 Concen: 19.270 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF113102.D  
 Acq: 18 Mar 2019 20:39

Tgt Ion:172 Resp: 383206  
 Ion Ratio Lower Upper  
 172 100  
 171 35.0 29.0 43.4  
 170 22.7 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

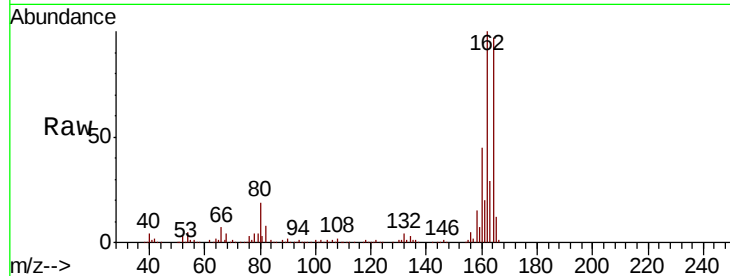




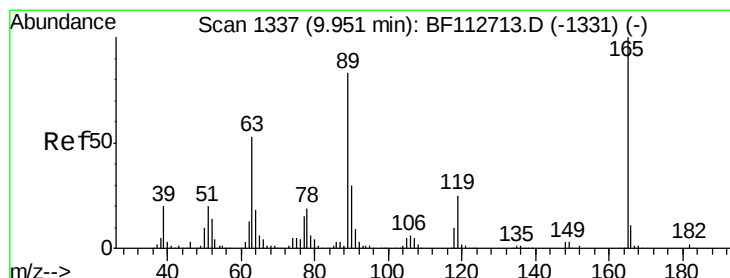
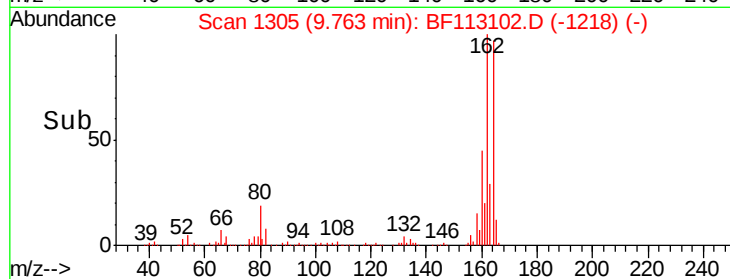
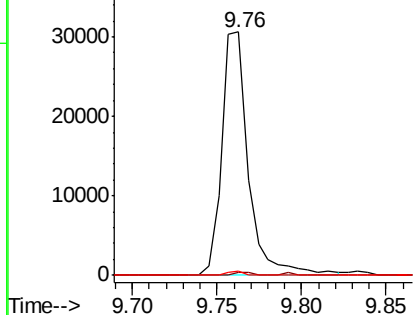
#51  
 2,6-Dinitrotoluene  
 Concen: 8.416 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. 0.21 min  
 Lab File: BF113102.D  
 Acq: 18 Mar 2019 20:39

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-031519-B

Tgt Ion:165 Resp: 33708  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 54.1 81.1#  
 89 1.5 52.8 79.2#

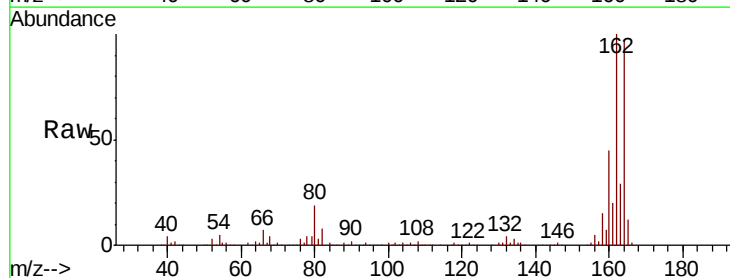


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

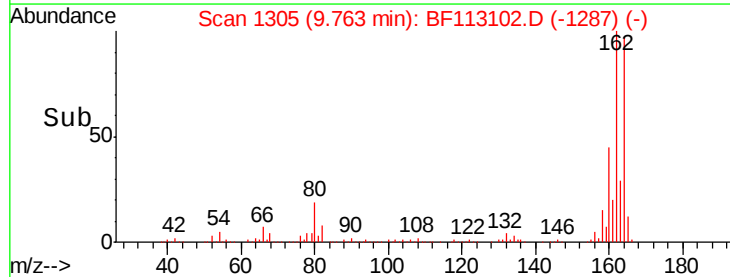
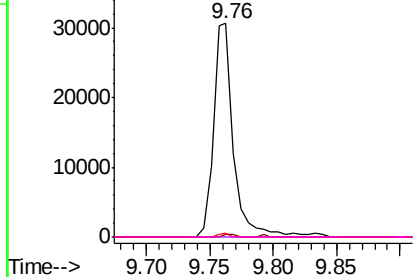


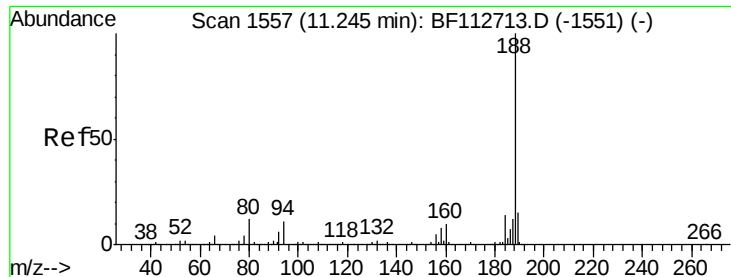
#57  
 2,4-Dinitrotoluene  
 Concen: 6.862 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.19 min  
 Lab File: BF113102.D  
 Acq: 18 Mar 2019 20:39

Tgt Ion:165 Resp: 34159  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 42.2 63.2#  
 89 1.5 66.2 99.4#  
 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: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

Instrument :

BNA\_F

ClientSampleId :

CL-01-031519-B

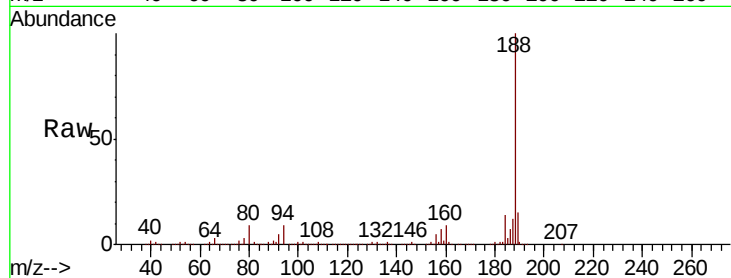
Tgt Ion:188 Resp: 473094

Ion Ratio Lower Upper

188 100

94 8.9 9.0 13.4#

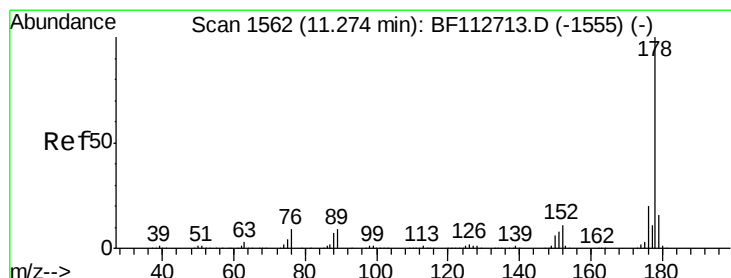
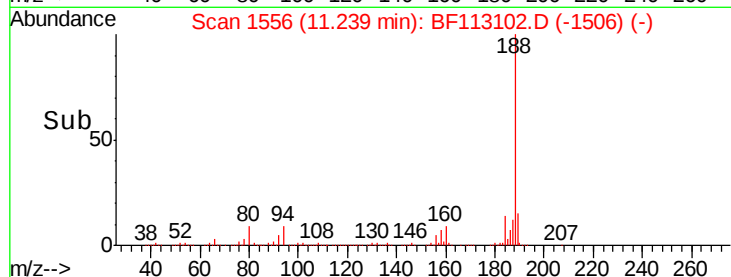
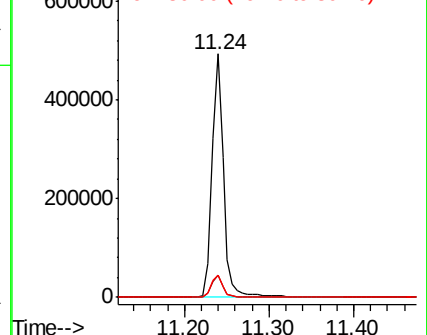
80 9.3 9.2 13.8



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



#71

Phenanthrene

Concen: 3.210 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

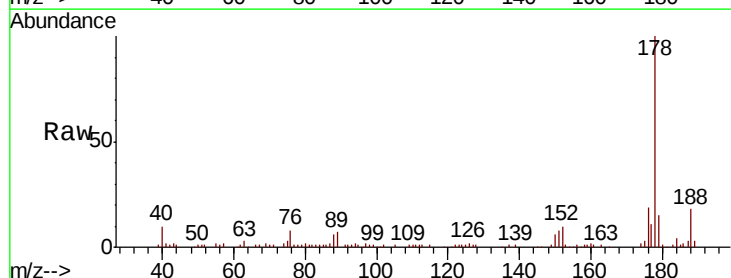
Tgt Ion:178 Resp: 75556

Ion Ratio Lower Upper

178 100

176 19.2 16.3 24.5

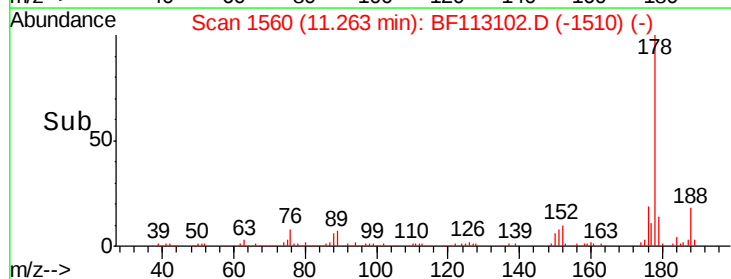
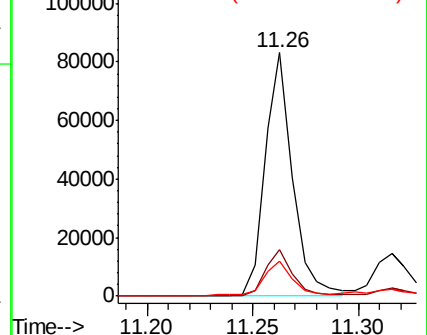
179 14.6 12.7 19.1

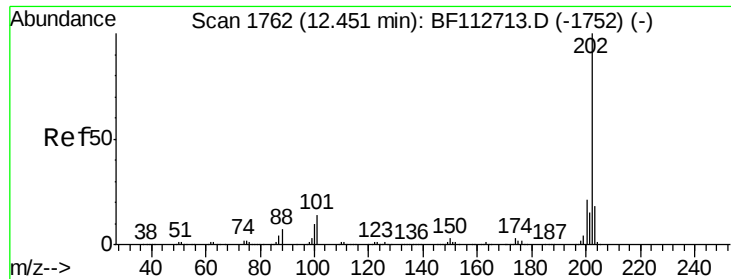


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 5.001 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

Instrument :

BNA\_F

ClientSampleId :

CL-01-031519-B

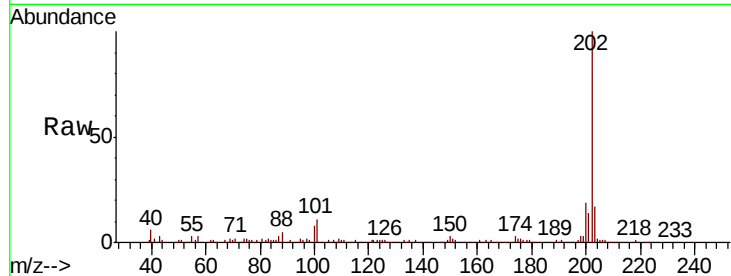
Tgt Ion: 202 Resp: 126106

Ion Ratio Lower Upper

202 100

101 10.8 0.0 33.8

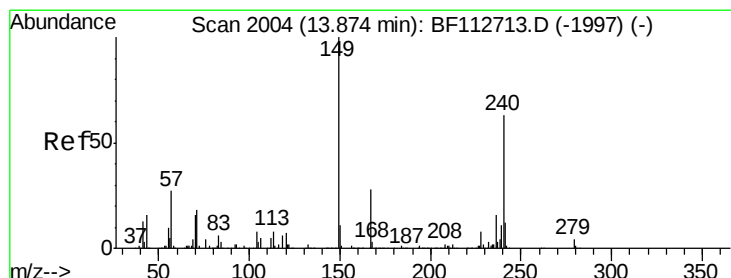
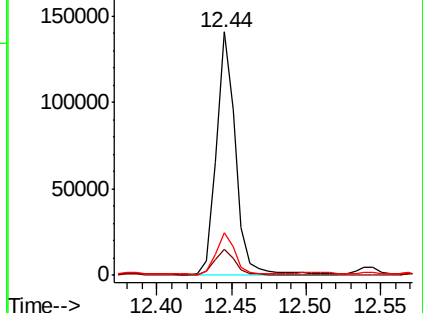
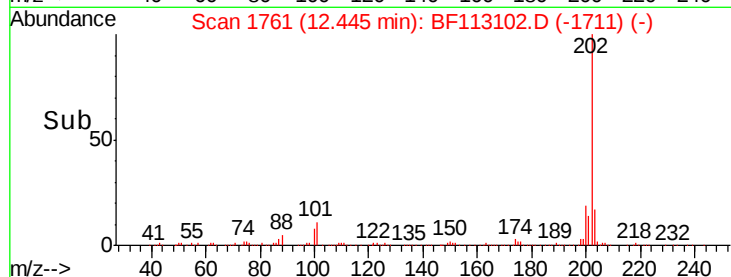
203 17.4 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

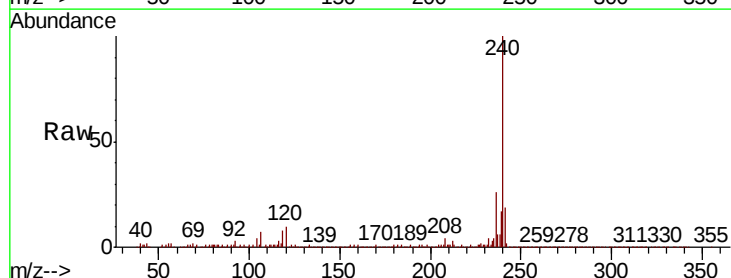
Tgt Ion: 240 Resp: 470583

Ion Ratio Lower Upper

240 100

120 9.9 8.9 13.3

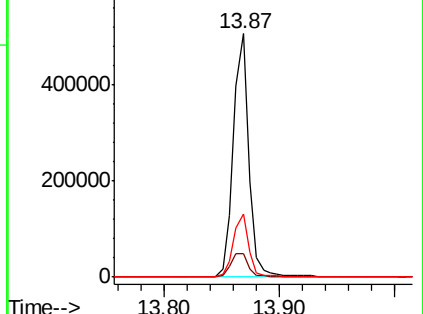
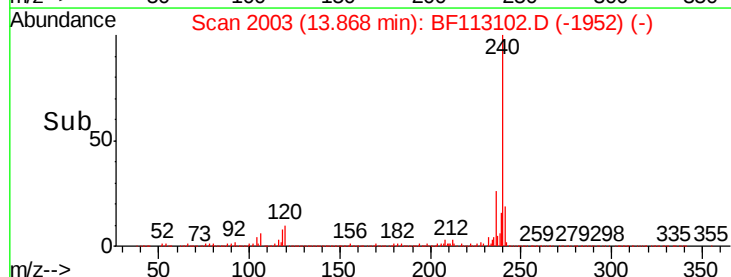
236 26.0 20.7 31.1

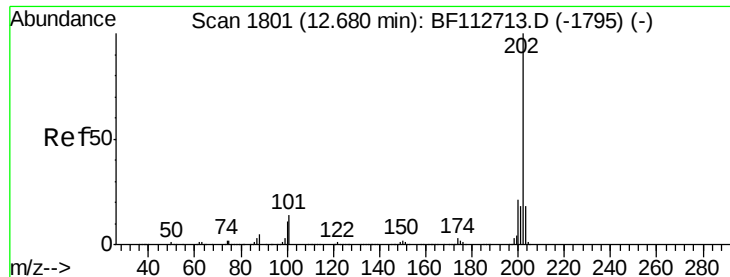


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 3.148 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.00 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

Instrument :

BNA\_F

ClientSampleId :

CL-01-031519-B

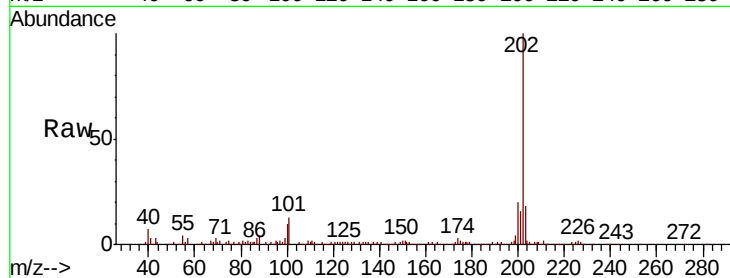
Tgt Ion: 202 Resp: 124897

Ion Ratio Lower Upper

202 100

200 20.1 17.0 25.4

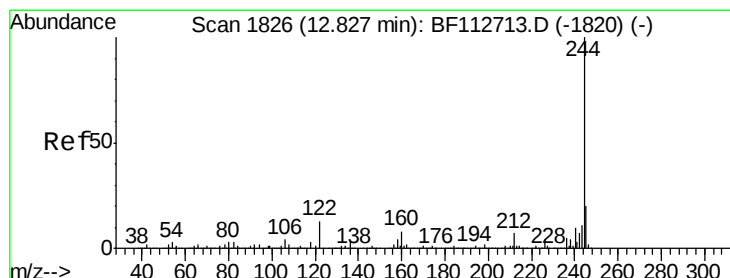
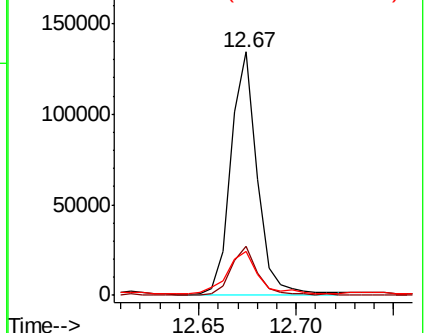
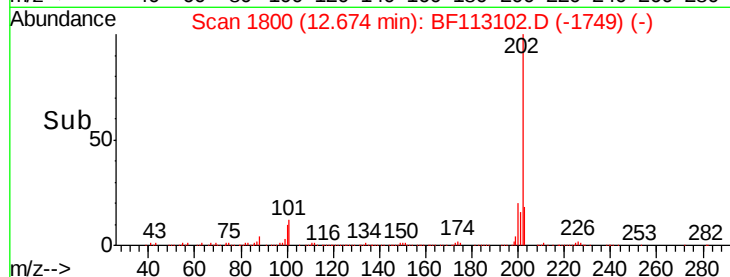
203 18.2 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 16.534 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

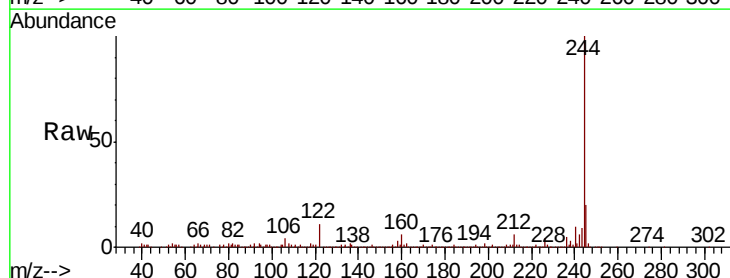
Tgt Ion: 244 Resp: 401369

Ion Ratio Lower Upper

244 100

212 6.1 5.6 8.4

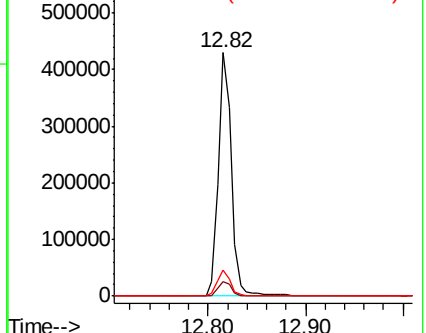
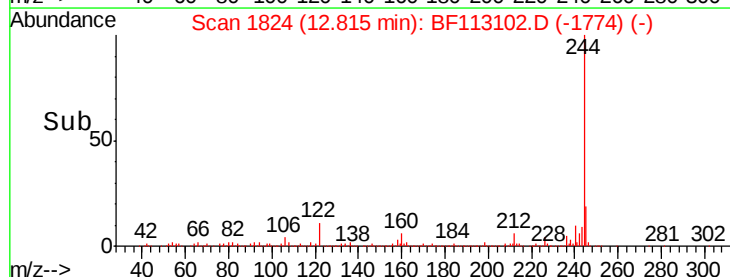
122 10.9 10.5 15.7

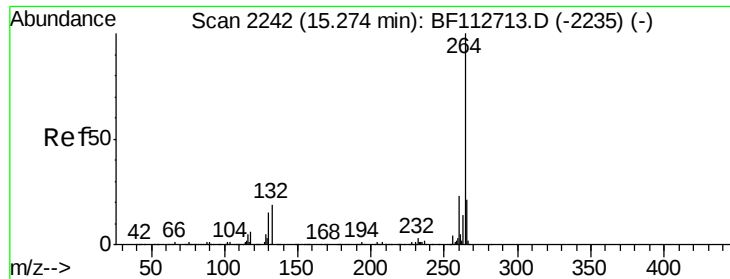


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

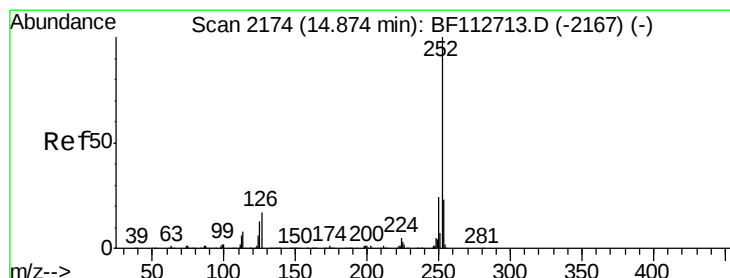
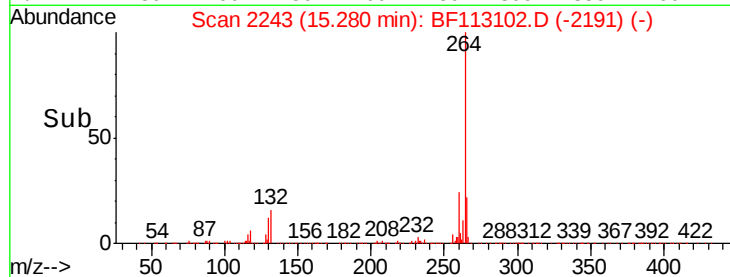
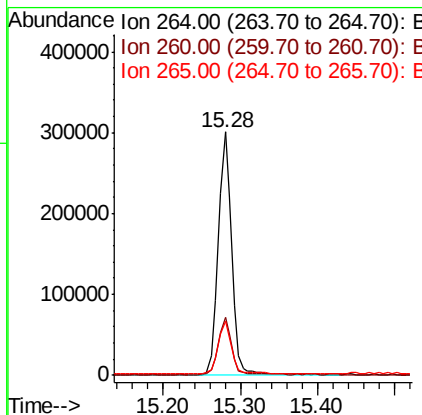
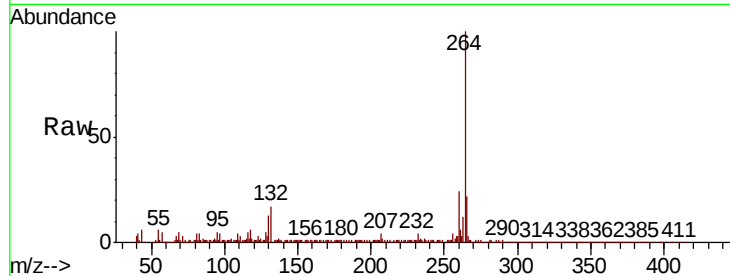




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.28 min Scan# 2243  
Delta R.T. 0.01 min  
Lab File: BF113102.D  
Acq: 18 Mar 2019 20:39

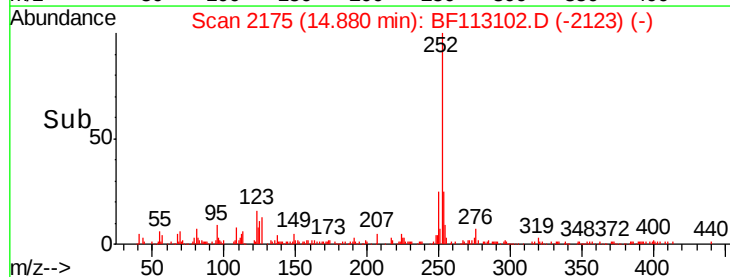
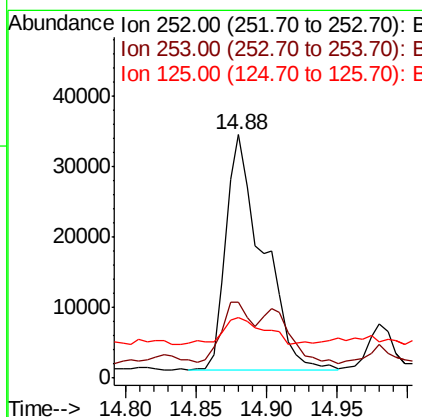
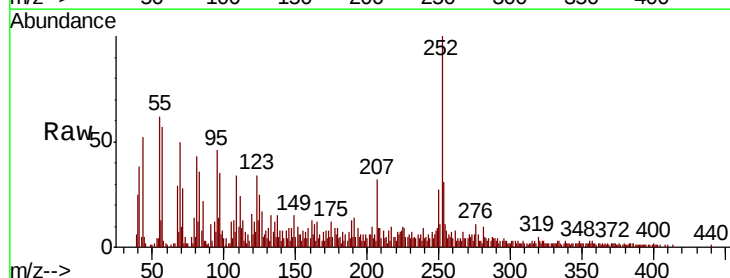
Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-031519-B

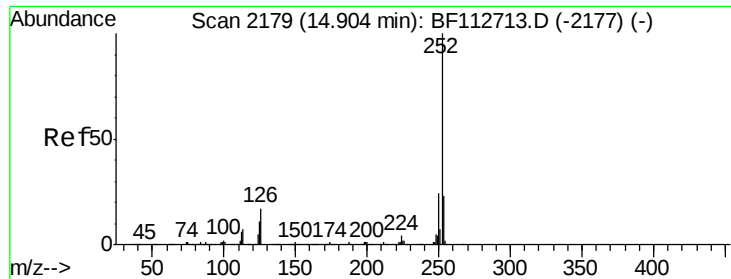
Tgt Ion: 264 Resp: 355312  
Ion Ratio Lower Upper  
264 100  
260 23.9 18.7 28.1  
265 22.1 17.2 25.8



#88  
Benzo(b)fluoranthene  
Concen: 2.673 ng  
RT: 14.88 min Scan# 2175  
Delta R.T. 0.01 min  
Lab File: BF113102.D  
Acq: 18 Mar 2019 20:39

Tgt Ion: 252 Resp: 61432  
Ion Ratio Lower Upper  
252 100  
253 31.0 18.0 27.0#  
125 25.0 10.2 15.2#





#89

Benzo(k)fluoranthene

Concen: 2.951 ng

RT: 14.88 min Scan# 2175

Delta R.T. -0.02 min

Lab File: BF113102.D

Acq: 18 Mar 2019 20:39

Instrument :

BNA\_F

ClientSampleId :

CL-01-031519-B

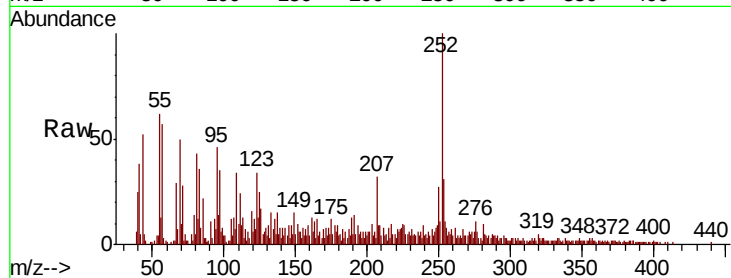
Tgt Ion:252 Resp: 61432

Ion Ratio Lower Upper

252 100

253 31.0 18.2 27.2#

125 25.0 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

