

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041618\  
 Data File : BF104542.D  
 Acq On : 16 Apr 2018 19:34  
 Operator : JU/SJ  
 Sample : J2393-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 17 00:55:59 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 16 12:15:25 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.81  | 152  | 151927   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 628124   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.85  | 164  | 286823   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.34 | 188  | 492903   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.98 | 240  | 292143   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.44 | 264  | 300305   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |       |    |       |
|--------------------------|-------|-----|---------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.43  | 112 | 26632   | 2.68  | ng | 0.00  |
| 7) Phenol-d6             | 6.44  | 99  | 391087  | 32.03 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.37  | 82  | 644758  | 67.03 | ng | 0.00  |
| 41) 2,4,6-Tribromophenol | 10.64 | 330 | 677     | 0.23  | ng | 0.00  |
| 44) 2-Fluorobiphenyl     | 9.17  | 172 | 1158180 | 63.79 | ng | 0.00  |
| 78) Terphenyl-d14        | 12.93 | 244 | 979124  | 76.41 | ng | 0.00  |

## Target Compounds

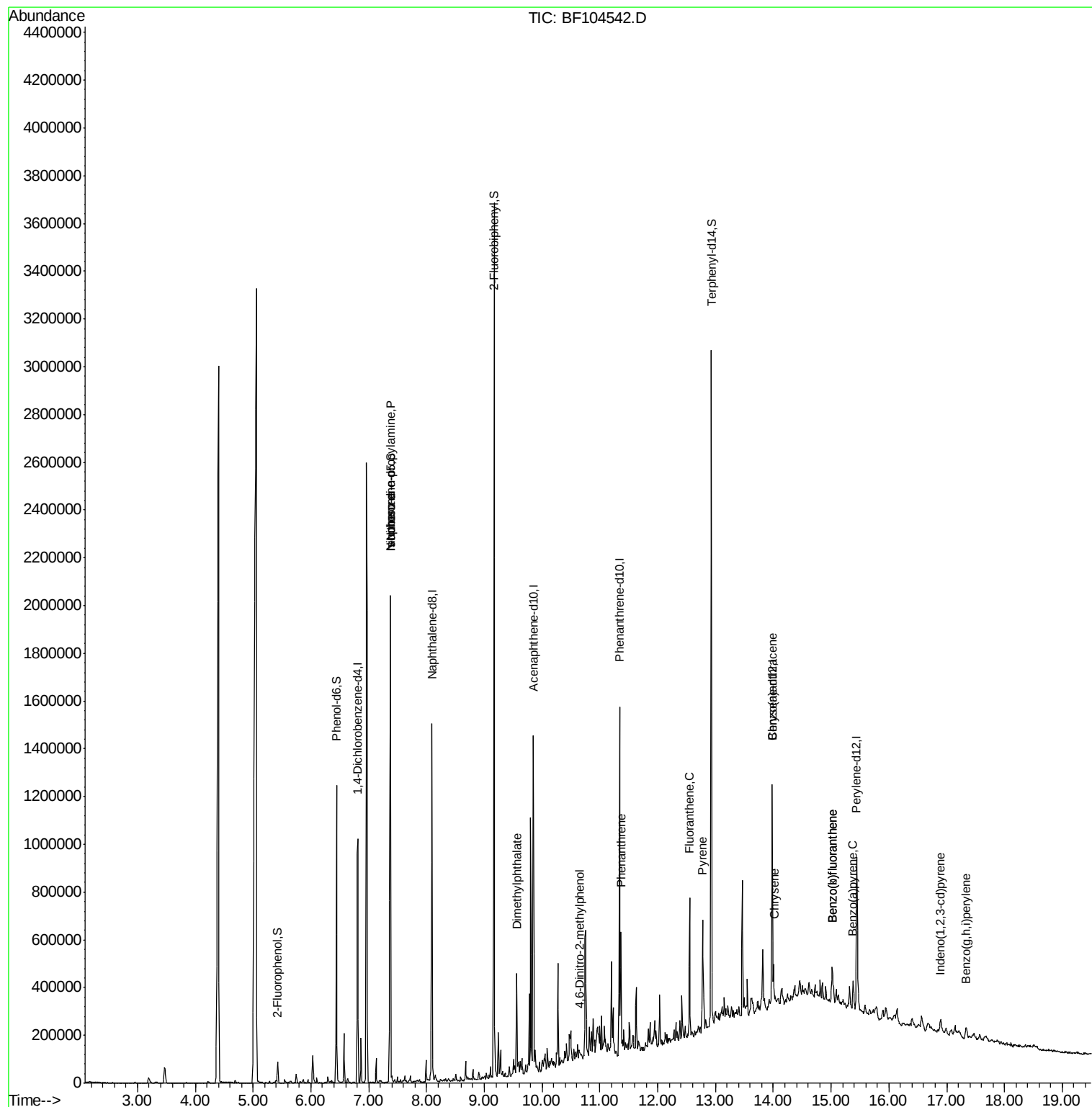
|                                |       |     |        |           |    | Qvalue |
|--------------------------------|-------|-----|--------|-----------|----|--------|
| 9) Benzaldehyde                | 6.36  | 77  | 1065   | Below Cal | #  | 76     |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70  | 89308  | 11.195    | ng | # 73   |
| 25) Isophorone                 | 7.37  | 82  | 642477 | 31.585    | ng | # 64   |
| 49) Dimethylphthalate          | 9.56  | 163 | 142337 | 6.293     | ng | # 98   |
| 64) 4,6-Dinitro-2-methylphenol | 10.66 | 198 | 461    | 7.510     | ng | # 1    |
| 70) Phenanthrene               | 11.36 | 178 | 167952 | 6.119     | ng | # 96   |
| 74) Fluoranthene               | 12.55 | 202 | 192385 | 6.708     | ng | # 99   |
| 76) Benzydine                  | 12.93 | 184 | 13973  | Below Cal |    | 95     |
| 77) Pyrene                     | 12.78 | 202 | 176375 | 8.145     | ng | # 99   |
| 80) Benzo(a)anthracene         | 13.97 | 228 | 67396  | 3.862     | ng | # 96   |
| 82) Chrysene                   | 14.01 | 228 | 63729  | 3.555     | ng | # 98   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.90 | 276 | 36430  | 2.392     | ng | # 95   |
| 87) Benzo(b)fluoranthene       | 15.02 | 252 | 99714  | 5.257     | ng | # 90   |
| 88) Benzo(k)fluoranthene       | 15.02 | 252 | 99714  | 5.569     | ng | # 93   |
| 89) Benzo(a)pyrene             | 15.38 | 252 | 55103  | 3.247     | ng | # 89   |
| 91) Benzo(g,h,i)perylene       | 17.34 | 276 | 33376  | 2.472     | ng | # 91   |

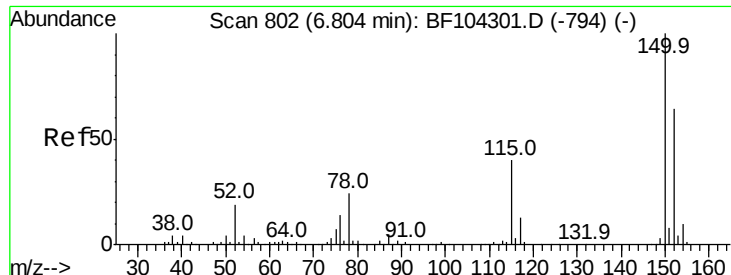
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041618\  
Data File : BF104542.D  
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Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Apr 17 00:55:59 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 16 12:15:25 2018  
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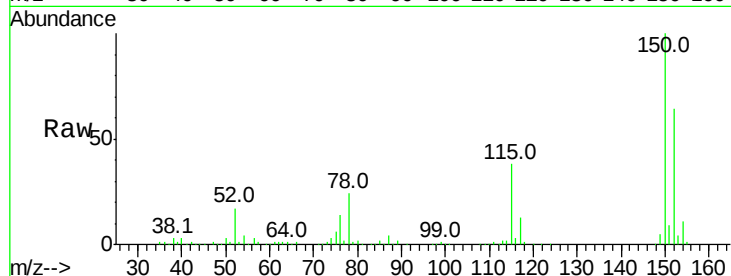


#1

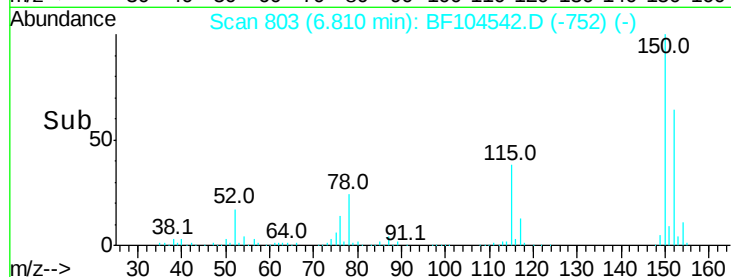
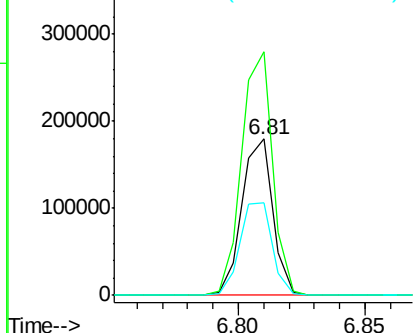
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.81 min Scan# 803  
Delta R.T. -0.00 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 151927  
Ion Ratio Lower Upper  
152 100  
150 155.8 124.6 186.8  
115 59.7 50.1 75.1



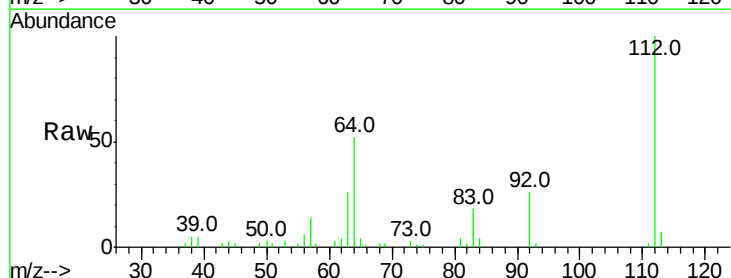
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



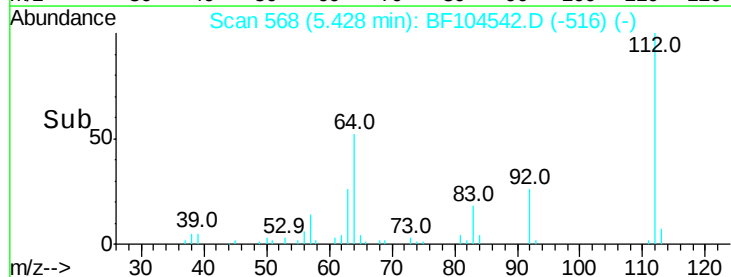
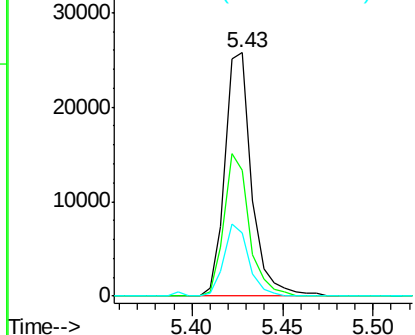
#5

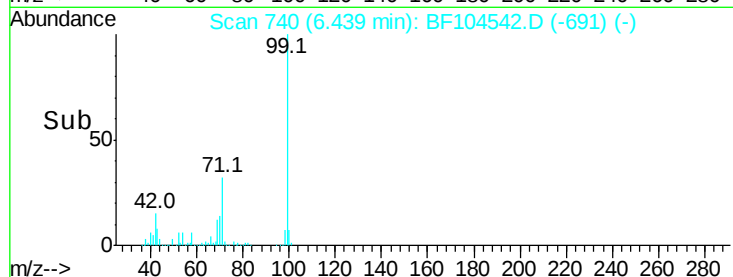
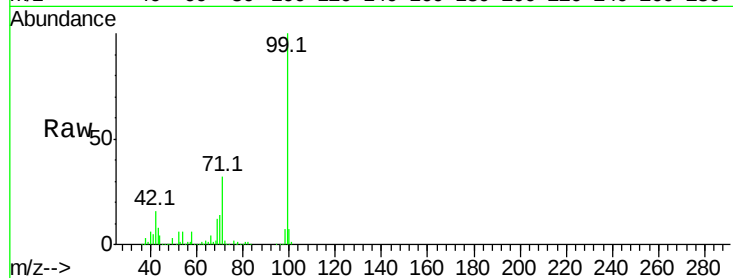
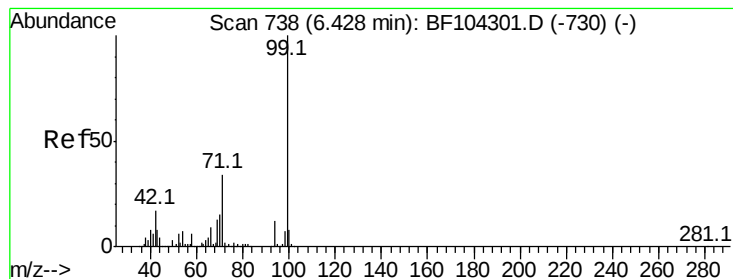
2-Fluorophenol  
Concen: 2.680 ng  
RT: 5.43 min Scan# 568  
Delta R.T. 0.01 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

Tgt Ion:112 Resp: 26632  
Ion Ratio Lower Upper  
112 100  
64 51.8 47.9 71.9  
63 26.0 23.7 35.5



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: 32.035 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA\_F

ClientSampleId :

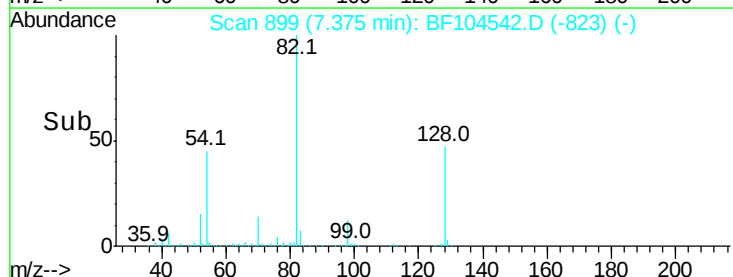
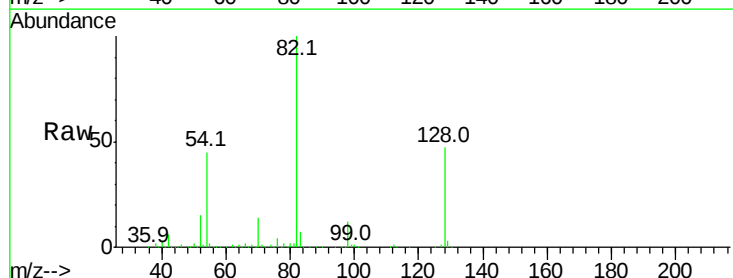
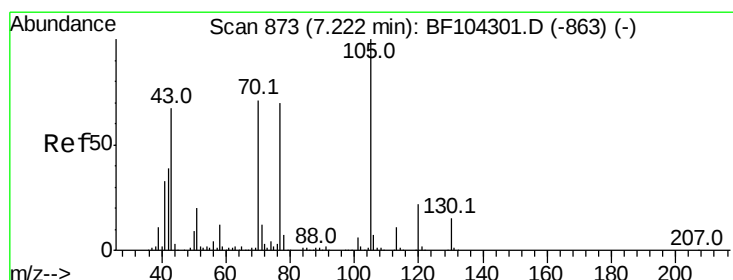
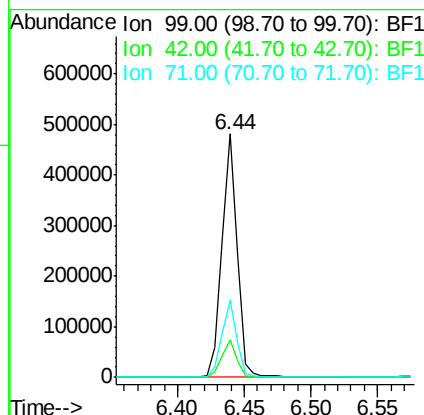
Tot Ion: 99 Resp: 391087

Ion Ratio Lower Upper

99 100

42 15.6 14.5 21.7

71 31.6 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 11.195 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Tgt Ion: 70 Resp: 89308

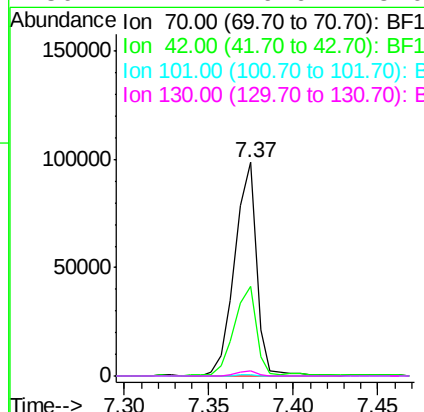
Ion Ratio Lower Upper

70 100

42 41.8 47.5 71.3#

101 0.3 7.4 11.2#

130 2.1 16.6 25.0#

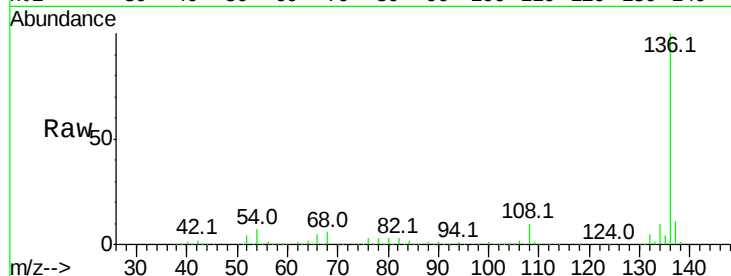




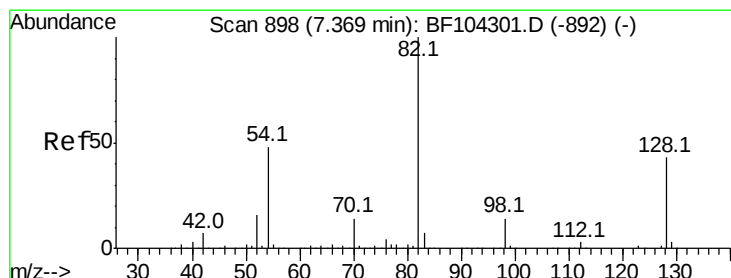
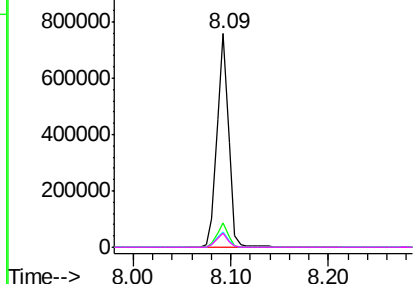
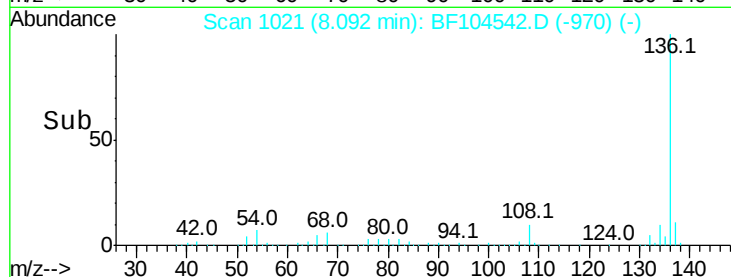
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.00 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

Instrument :  
BNA\_F  
ClientSampleId :

|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 628124 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.1    | 8.9 13.3     |
| 54 7.2      | 6.6 9.8      |
| 68 6.4      | 5.0 7.4      |

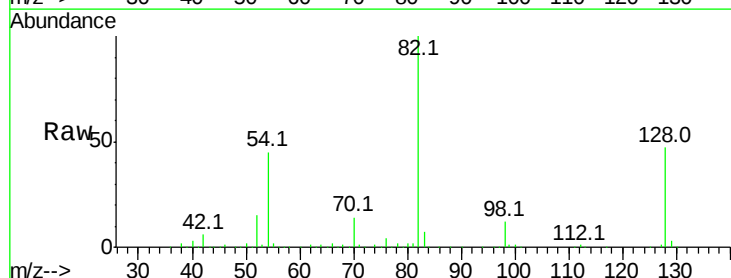


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

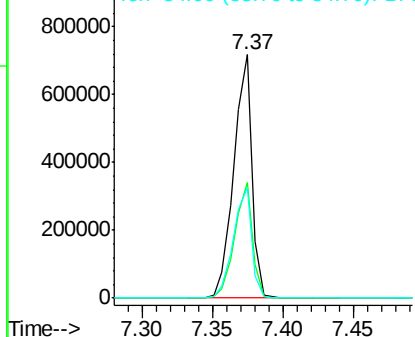
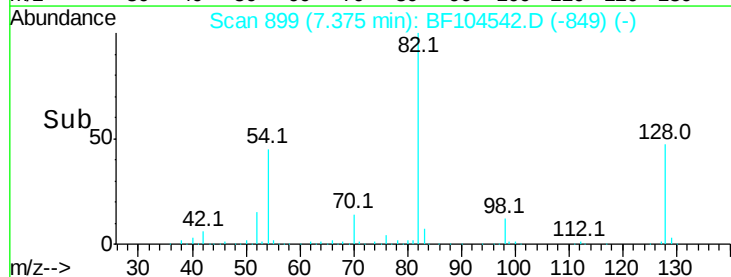


#23  
Nitrobenzene-d5  
Concen: 67.027 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 644758 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 47.3    | 36.1 54.1    |
| 54 45.3     | 41.4 62.2    |



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: 31.585 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA\_F

ClientSampled :

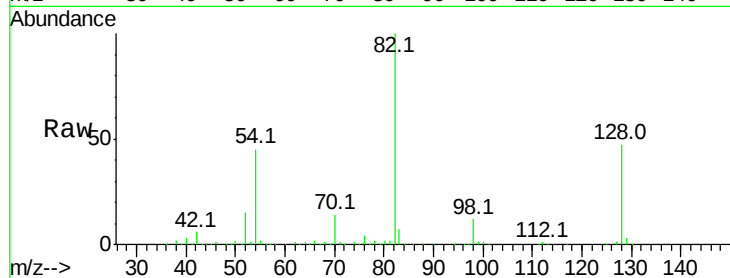
Tot Ion: 82 Resp: 642477

Ion Ratio Lower Upper

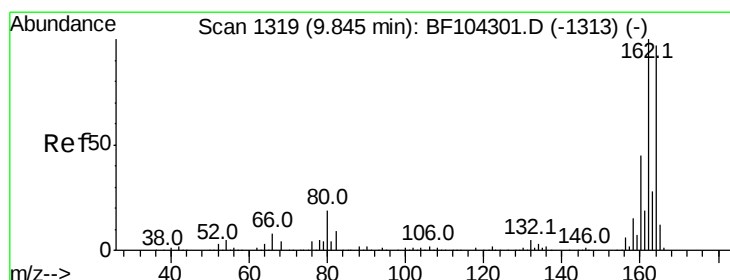
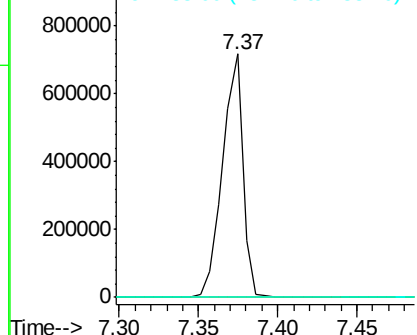
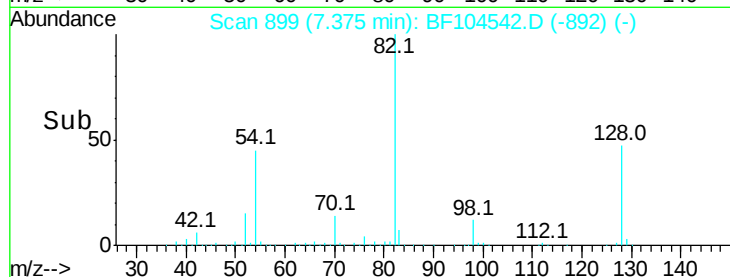
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.00 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

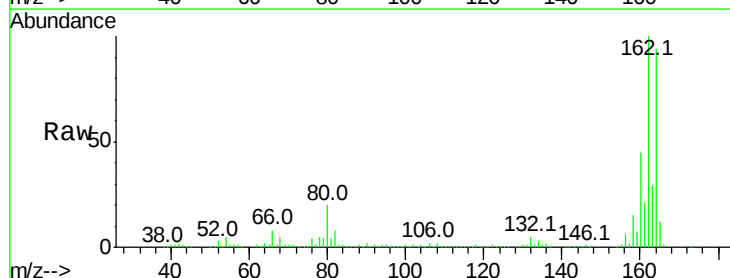
Tgt Ion:164 Resp: 286823

Ion Ratio Lower Upper

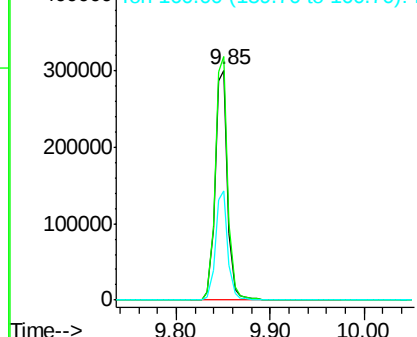
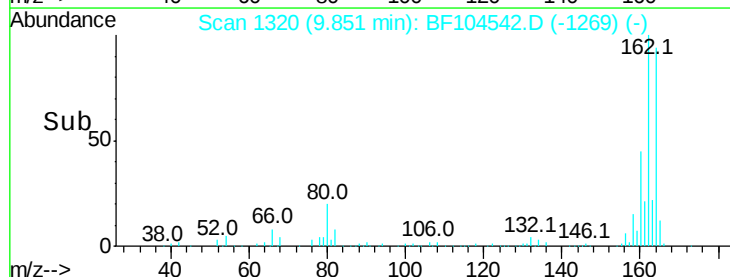
164 100

162 105.9 86.1 129.1

160 47.5 38.3 57.5



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

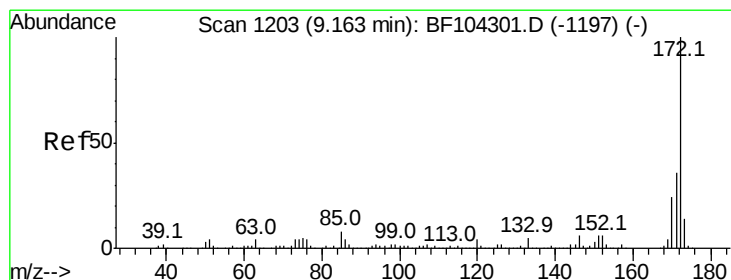
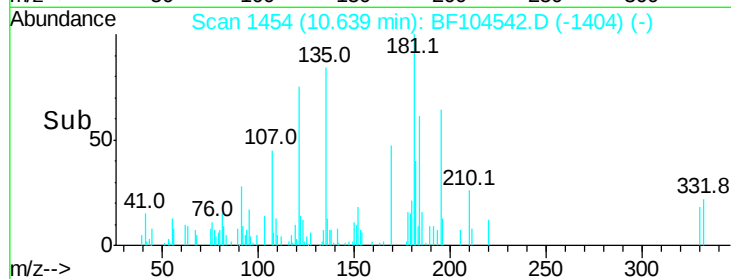
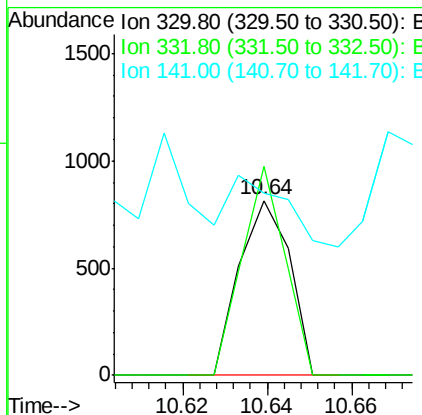
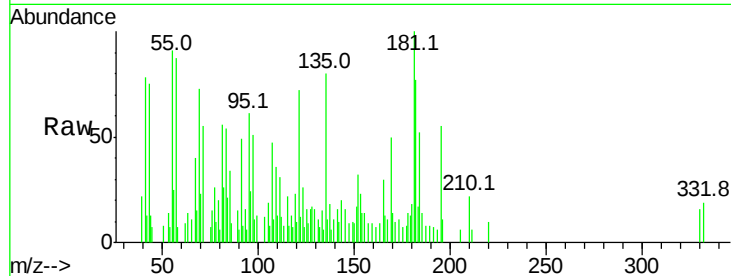




#41  
 2,4,6-Tribromophenol  
 Concen: 0.228 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.01 min  
 Lab File: BF104542.D  
 Acq: 16 Apr 2018 19:34

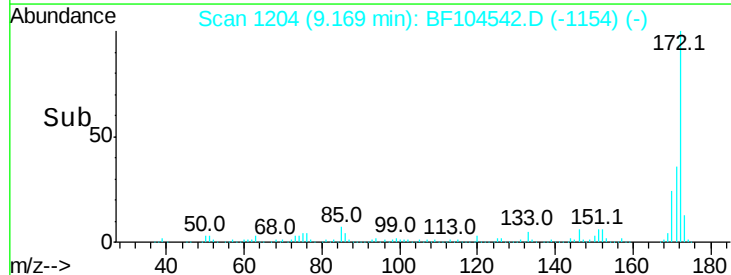
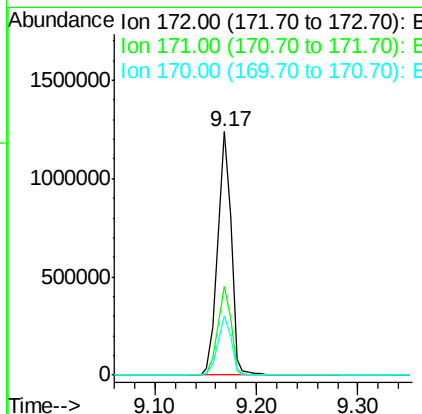
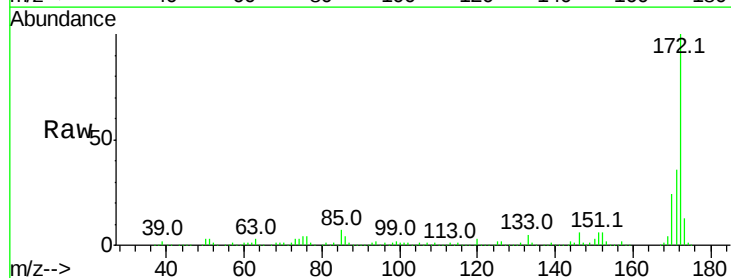
Instrument :  
 BNA\_F  
 ClientSampleId :

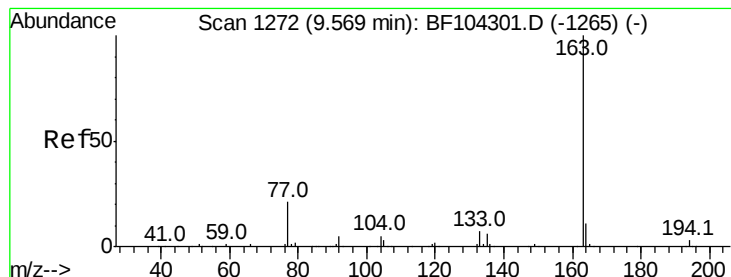
Tot Ion:330 Resp: 677  
 Ion Ratio Lower Upper  
 330 100  
 332 102.2 77.0 115.6  
 141 44.0 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 63.790 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.01 min  
 Lab File: BF104542.D  
 Acq: 16 Apr 2018 19:34

Tgt Ion:172 Resp: 1158180  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.7 44.5  
 170 24.3 19.6 29.4





#49

Dimethylphthalate

Concen: 6.293 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA\_F

ClientSampleId :

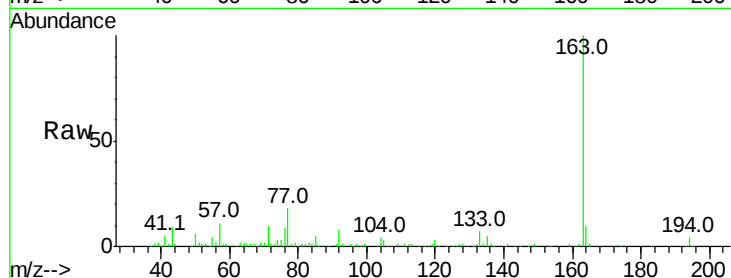
Tot Ion:163 Resp: 142337

Ion Ratio Lower Upper

163 100

194 3.9 2.7 4.1

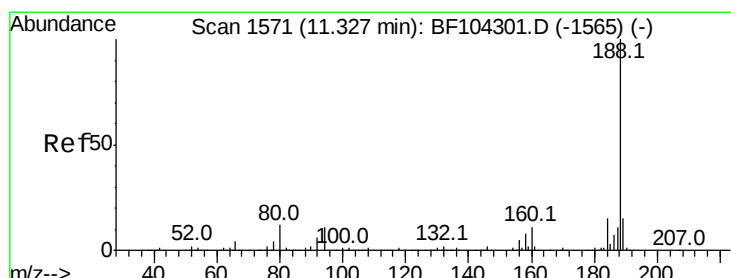
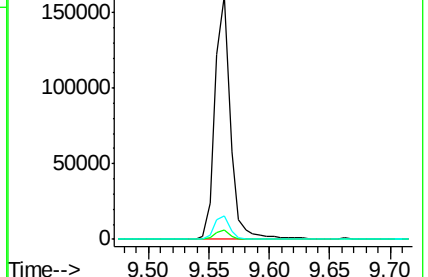
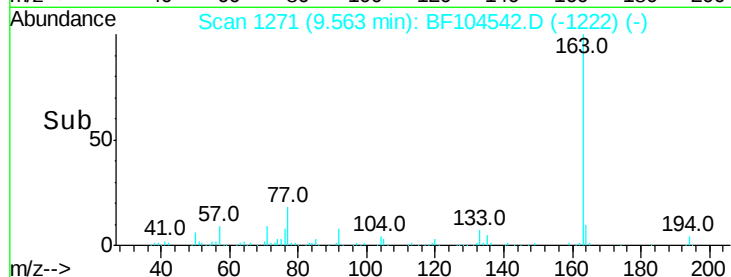
164 9.6 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

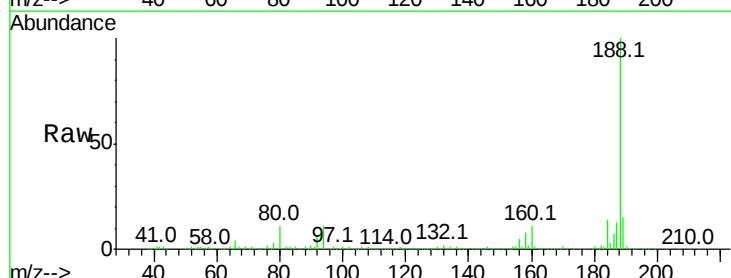
Tgt Ion:188 Resp: 492903

Ion Ratio Lower Upper

188 100

94 10.7 8.5 12.7

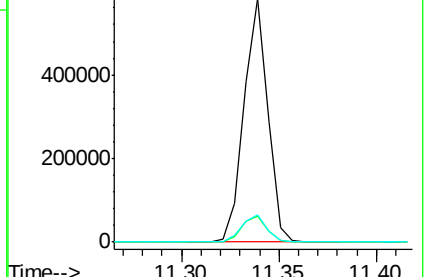
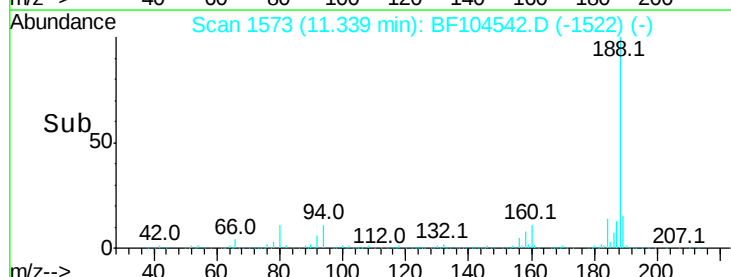
80 11.4 9.2 13.8

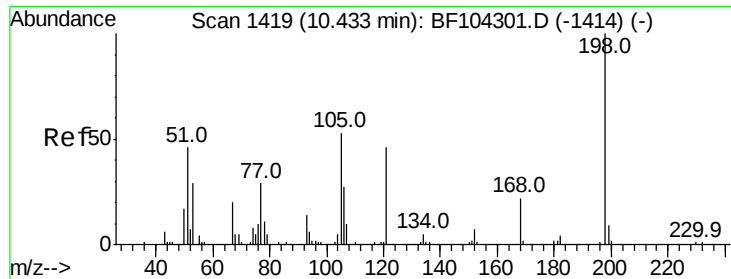


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

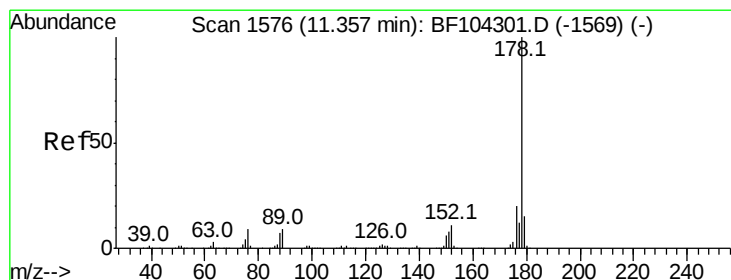
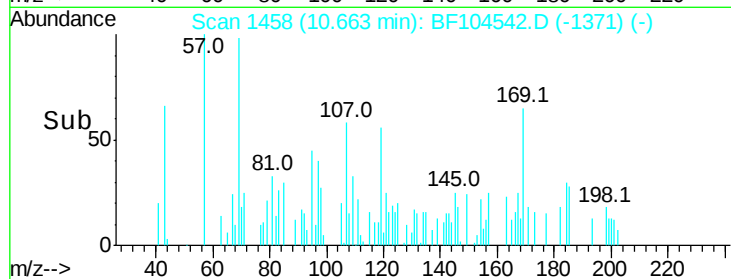
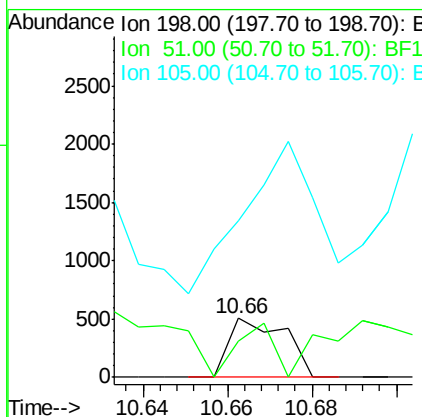
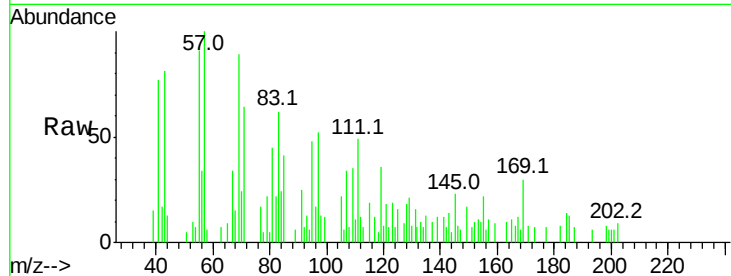




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.510 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. 0.21 min  
 Lab File: BF104542.D  
 Acq: 16 Apr 2018 19:34

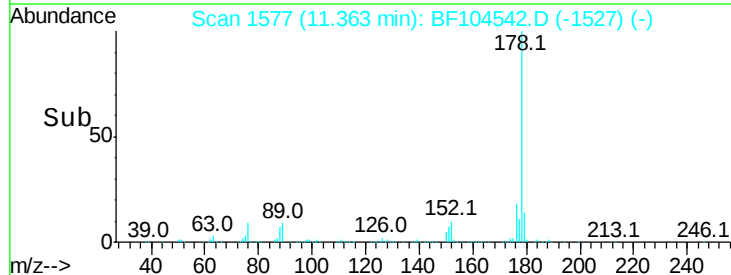
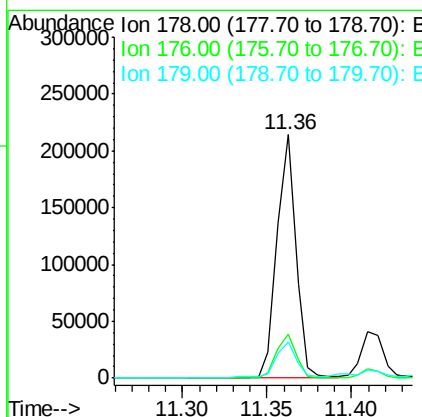
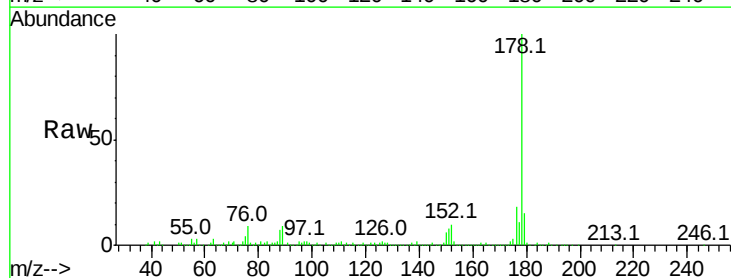
Instrument :  
 BNA\_F  
 ClientSampled :

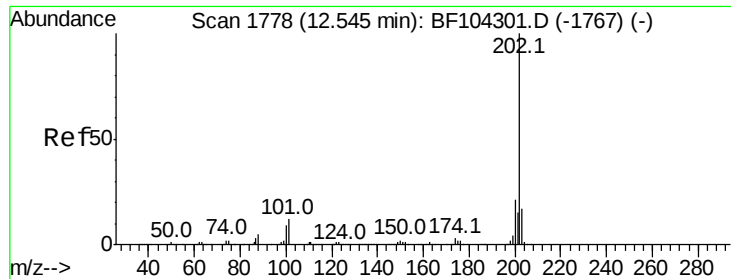
Tot Ion:198 Resp: 461  
 Ion Ratio Lower Upper  
 198 100  
 51 62.5 37.7 77.7  
 105 265.8 36.3 76.3#



#70  
 Phenanthrene  
 Concen: 6.119 ng  
 RT: 11.36 min Scan# 1577  
 Delta R.T. -0.01 min  
 Lab File: BF104542.D  
 Acq: 16 Apr 2018 19:34

Tgt Ion:178 Resp: 167952  
 Ion Ratio Lower Upper  
 178 100  
 176 18.1 15.8 23.8  
 179 14.8 13.0 19.6





#74

Fluoranthene

Concen: 6.708 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA\_F

ClientSampleId :

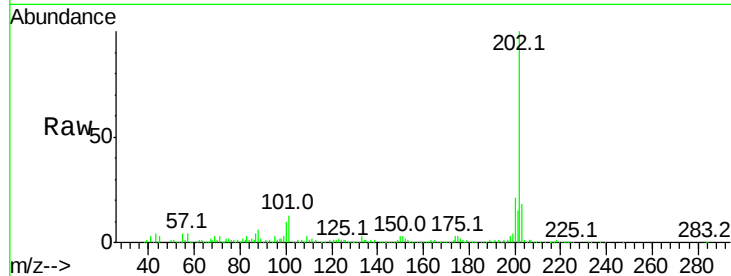
Tot Ion:202 Resp: 192385

Ion Ratio Lower Upper

202 100

101 13.5 0.0 34.1

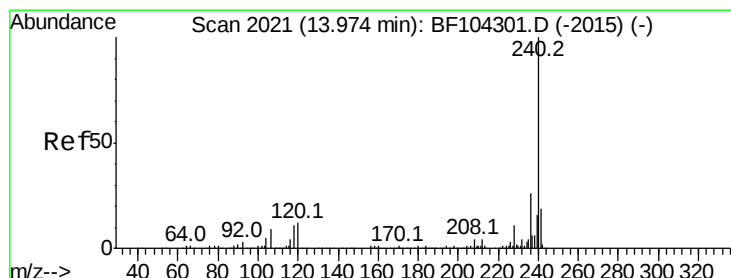
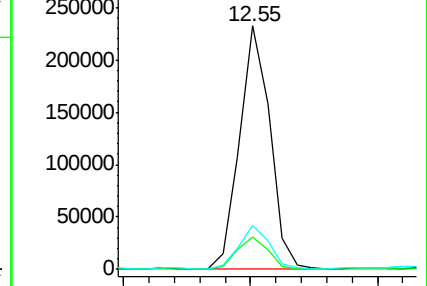
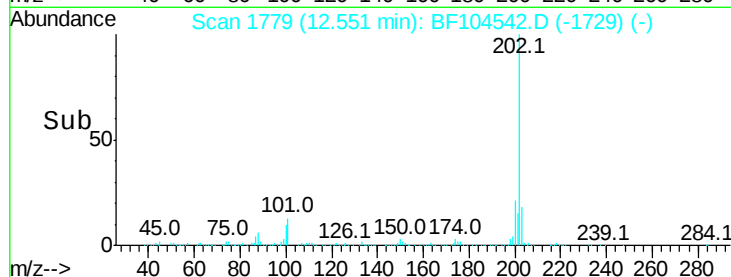
203 18.2 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

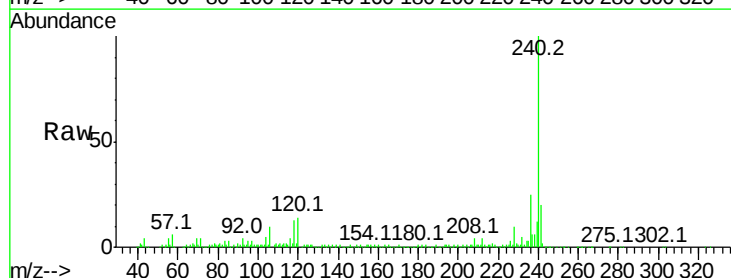
Tgt Ion:240 Resp: 292143

Ion Ratio Lower Upper

240 100

120 14.4 9.5 14.3#

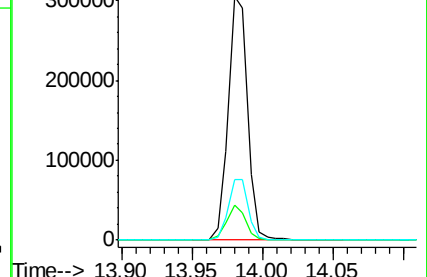
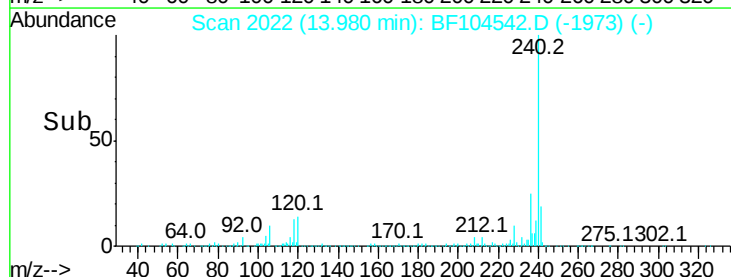
236 25.0 20.7 31.1

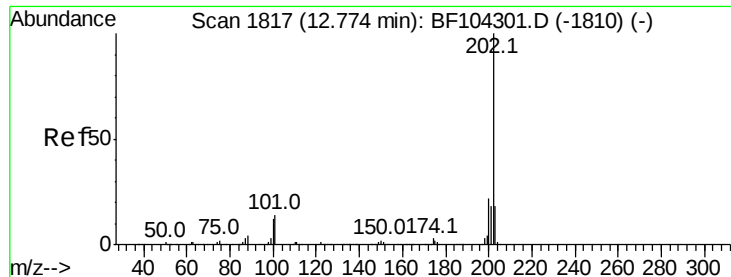


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 8.145 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA\_F

ClientSampleId :

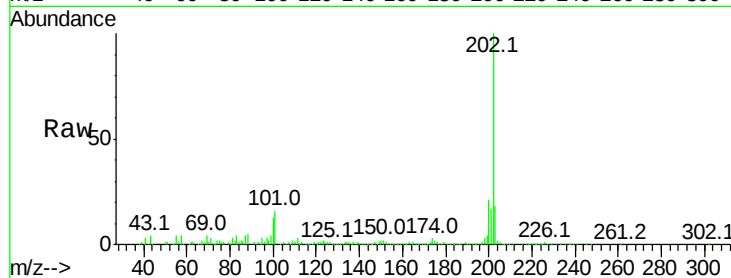
Tot Ion:202 Resp: 176375

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

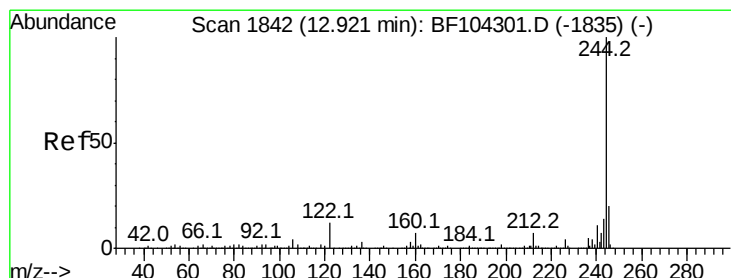
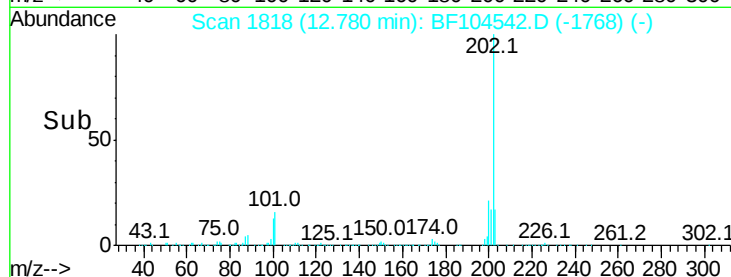
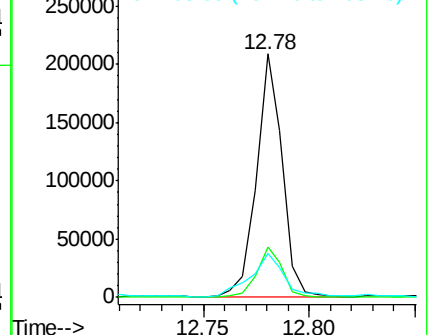
203 18.0 14.3 21.5



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



#78

Terphenyl-d14

Concen: 76.409 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

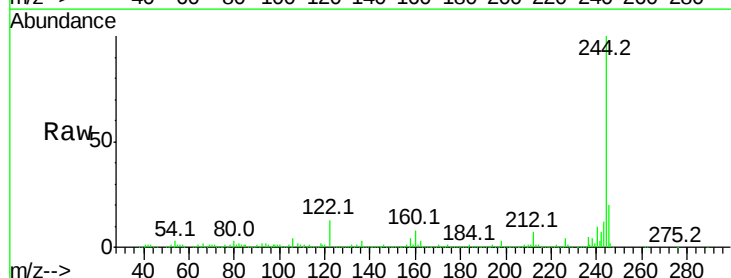
Tgt Ion:244 Resp: 979124

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

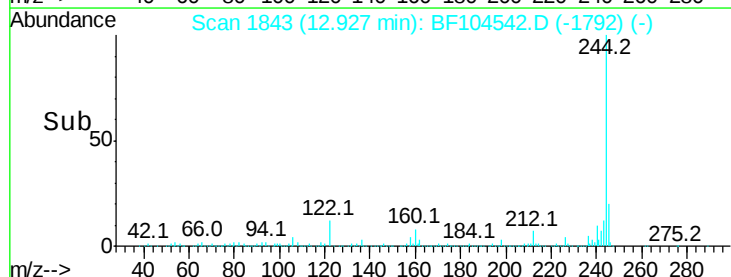
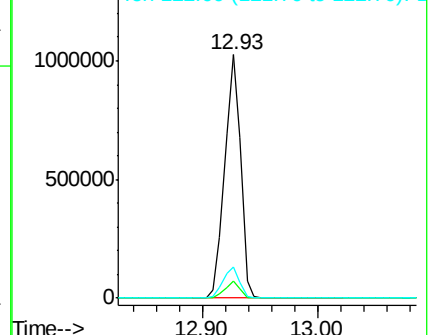
122 12.6 11.0 16.4

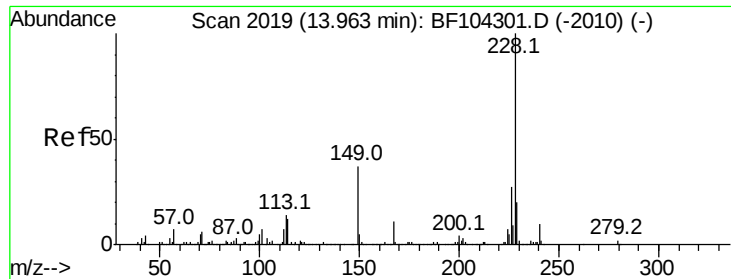


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

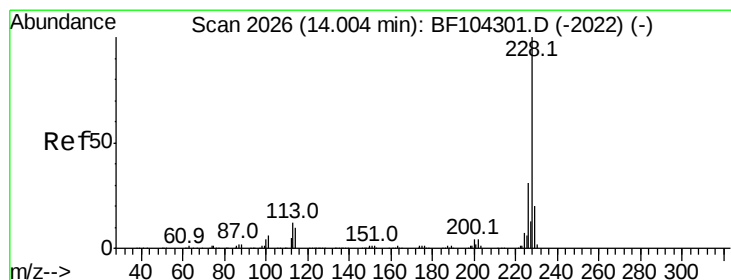
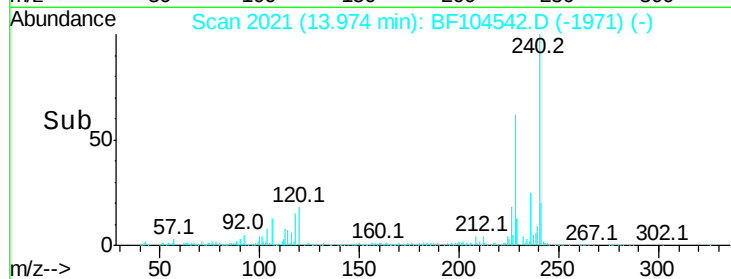
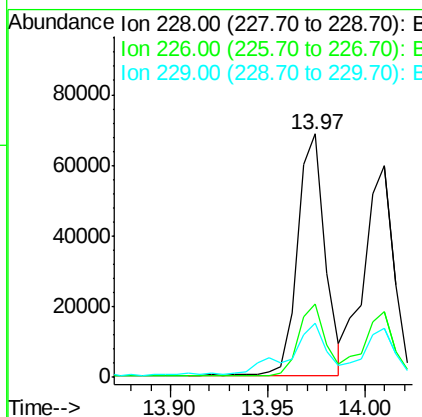
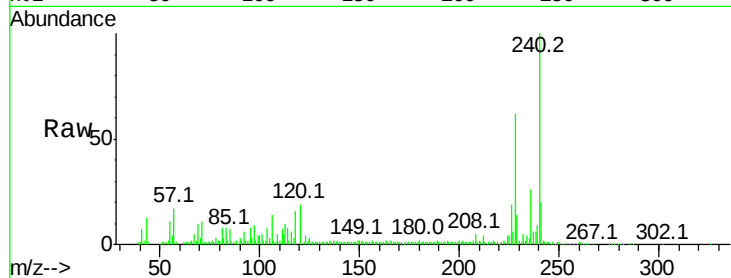




#80  
Benzo(a)anthracene  
Concen: 3.862 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. -0.01 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

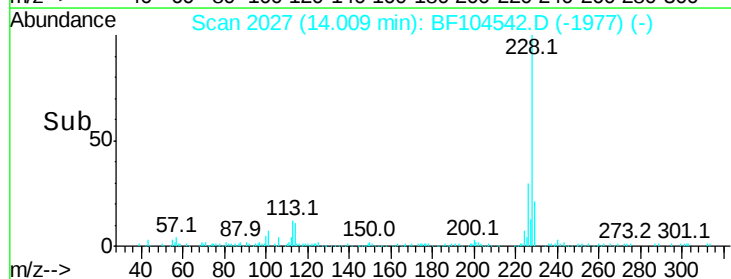
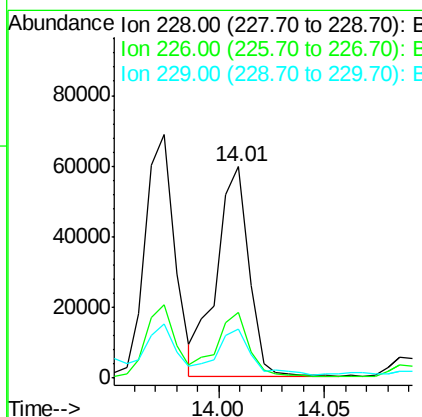
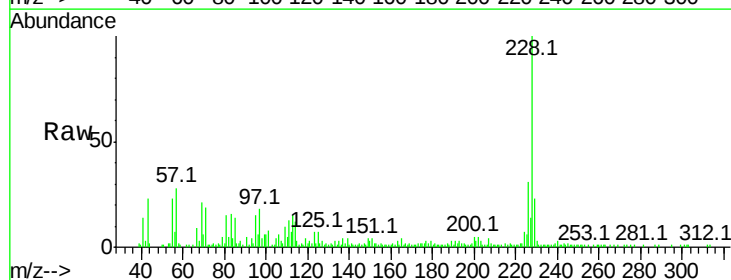
Instrument :  
BNA\_F  
ClientSampleId :

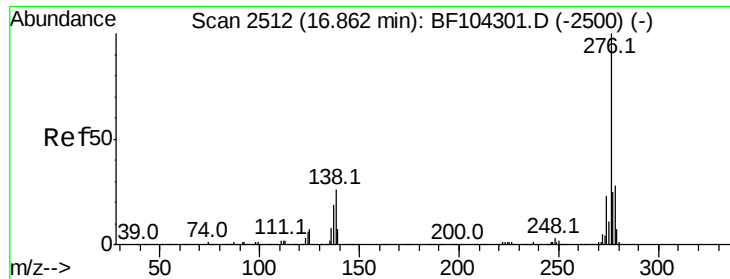
Tot Ion:228 Resp: 67396  
Ion Ratio Lower Upper  
228 100  
226 30.2 22.6 33.8  
229 22.2 15.8 23.6



#82  
Chrysene  
Concen: 3.555 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.01 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

Tgt Ion:228 Resp: 63729  
Ion Ratio Lower Upper  
228 100  
226 31.2 25.0 37.6  
229 23.0 16.2 24.4

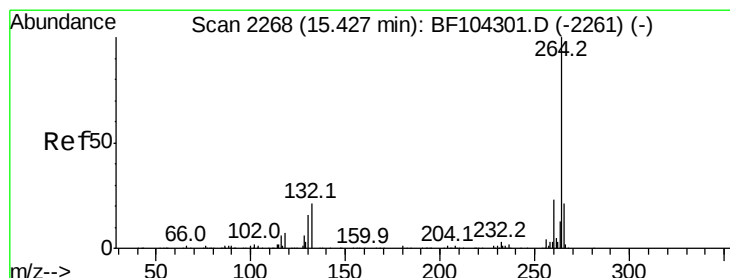
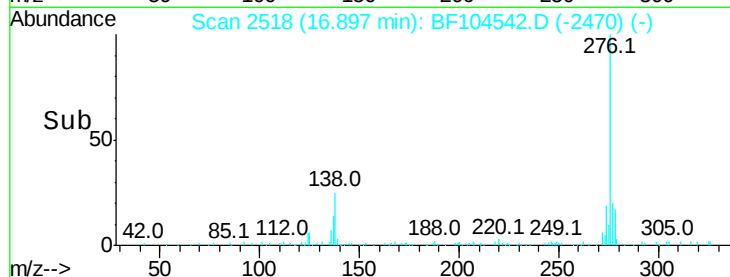
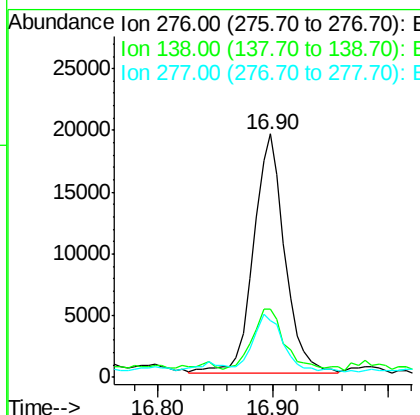
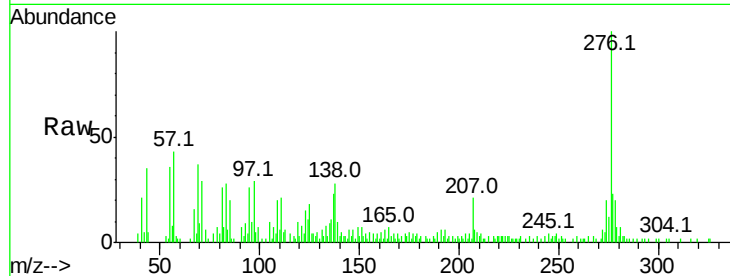




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.392 ng  
 RT: 16.90 min Scan# 2518  
 Delta R.T. -0.02 min  
 Lab File: BF104542.D  
 Acq: 16 Apr 2018 19:34

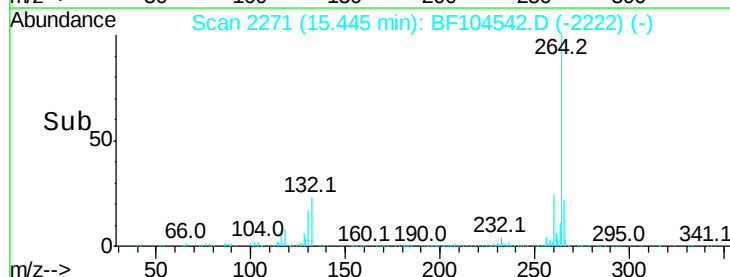
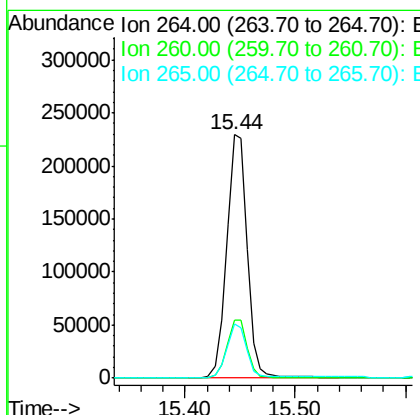
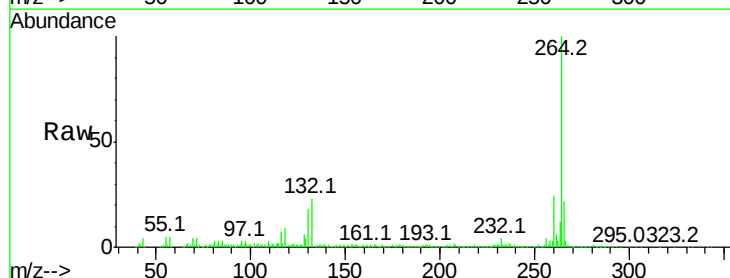
Instrument :  
 BNA\_F  
 ClientSampled :

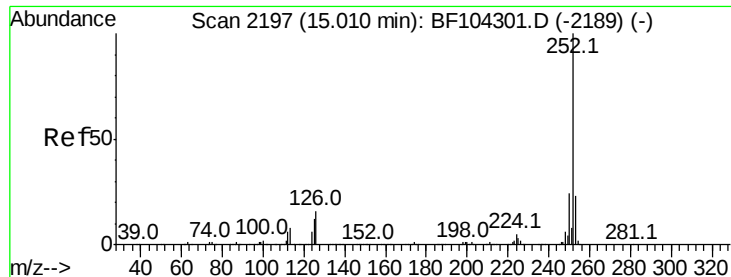
Tot Ion:276 Resp: 36430  
 Ion Ratio Lower Upper  
 276 100  
 138 27.1 25.0 37.6  
 277 24.4 20.1 30.1



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.44 min Scan# 2271  
 Delta R.T. -0.01 min  
 Lab File: BF104542.D  
 Acq: 16 Apr 2018 19:34

Tgt Ion:264 Resp: 300305  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.2 28.8  
 265 22.1 17.5 26.3

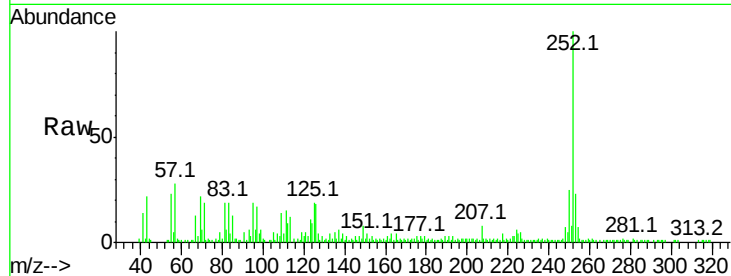




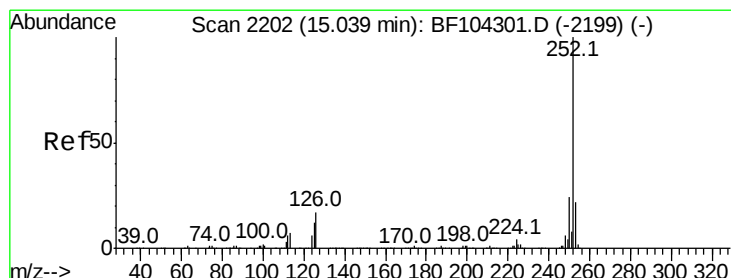
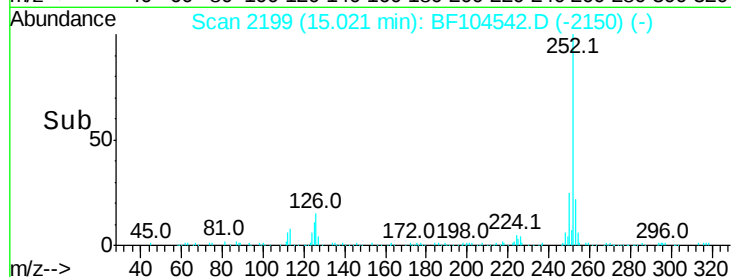
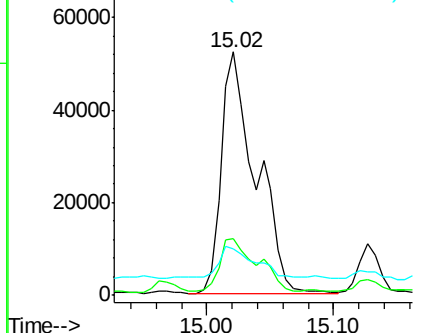
#87  
Benzo(b)fluoranthene  
Concen: 5.257 ng  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.01 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 99714  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.0 25.6  
125 19.2 9.0 13.6#

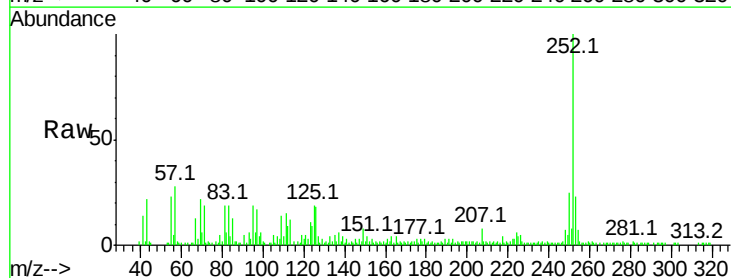


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

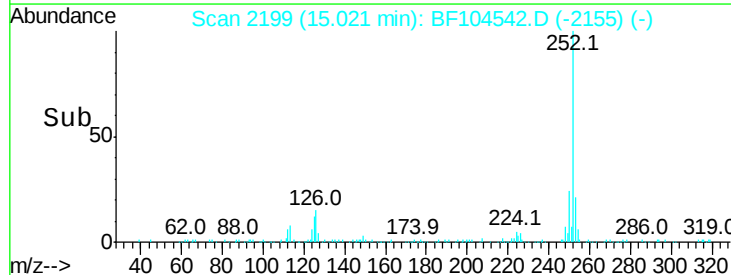
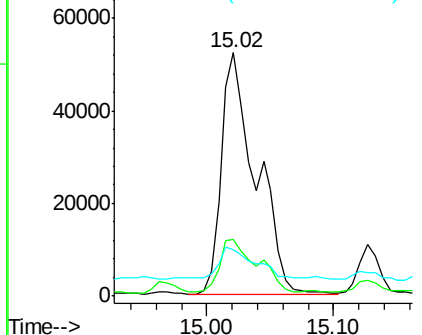


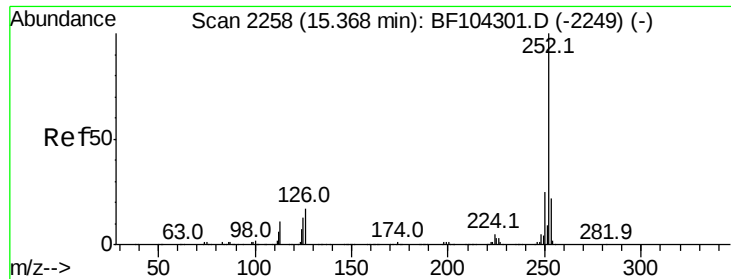
#88  
Benzo(k)fluoranthene  
Concen: 5.569 ng  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.04 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

Tgt Ion:252 Resp: 99714  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.9 26.9  
125 19.2 10.2 15.2#



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

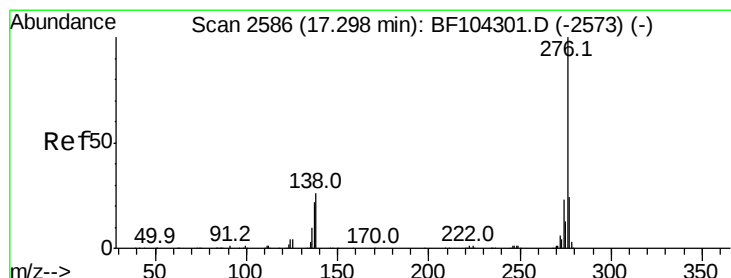
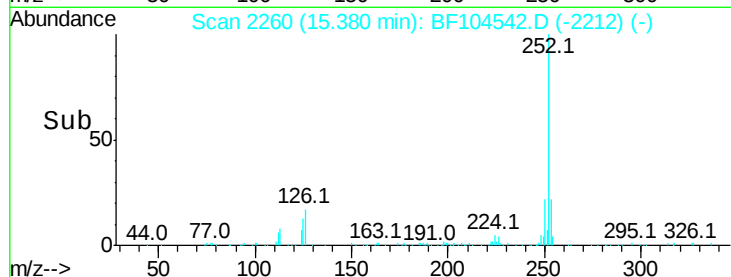
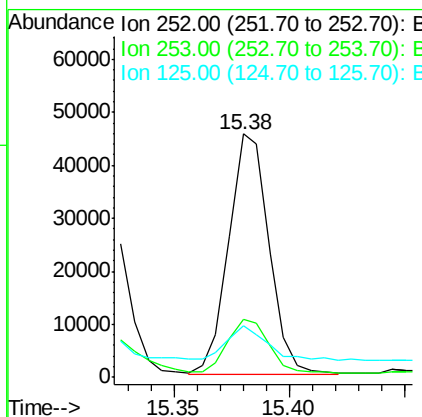
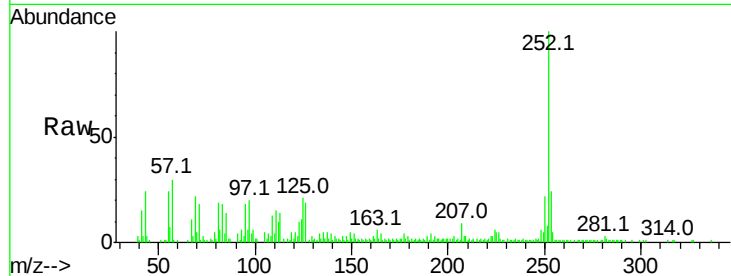




#89  
Benzo(a)pyrene  
Concen: 3.247 ng  
RT: 15.38 min Scan# 2260  
Delta R.T. -0.02 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.1  | 25.7  |
| 125     | 21.0  | 9.8   | 14.6  |



#91  
Benzo(g,h,i)perylene  
Concen: 2.472 ng  
RT: 17.34 min Scan# 2593  
Delta R.T. -0.02 min  
Lab File: BF104542.D  
Acq: 16 Apr 2018 19:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.9  | 17.9  | 26.9  |
| 138     | 30.5  | 21.8  | 32.8  |

