

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041918\  
 Data File : BF104637.D  
 Acq On : 19 Apr 2018 19:25  
 Operator : JU/SJ  
 Sample : J2387-08RX  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 20 00:55:43 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 19 14:44:03 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 157868   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 633692   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.85  | 164  | 276235   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.33 | 188  | 424560   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.98 | 240  | 276830   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.44 | 264  | 256108   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |      |
|-----------------------------|-------|-----|---------|--------|----|------|
| System Monitoring Compounds |       |     |         |        |    |      |
| 5) 2-Fluorophenol           | 5.43  | 112 | 624025  | 60.44  | ng | 0.01 |
| 7) Phenol-d6                | 6.45  | 99  | 1277256 | 100.69 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.37  | 82  | 950922  | 97.99  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330 | 139683  | 48.75  | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.17  | 172 | 1302980 | 74.52  | ng | 0.00 |
| 78) Terphenyl-d14           | 12.92 | 244 | 988917  | 81.44  | ng | 0.00 |

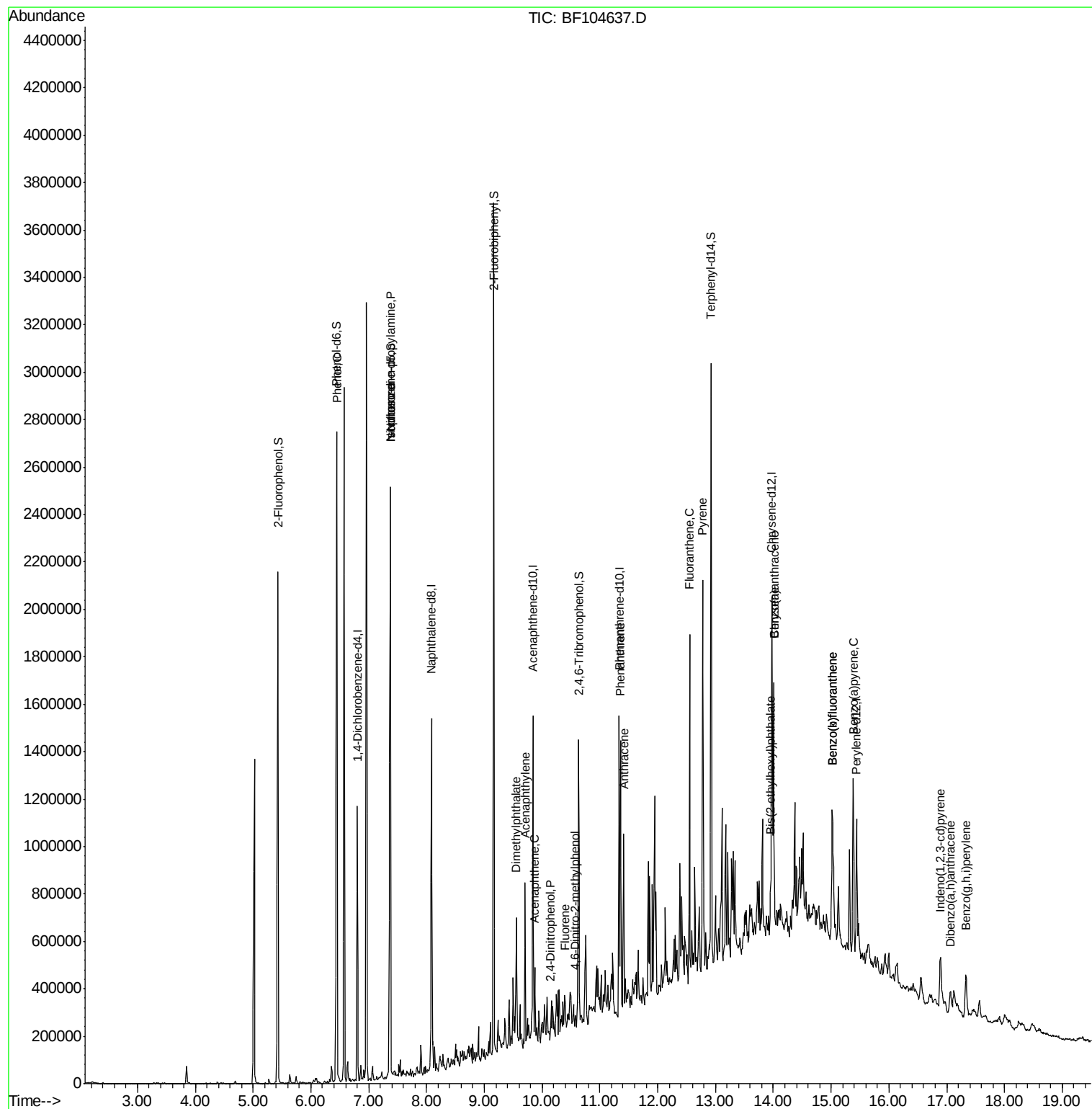
|                                |       |     |        |           |    |      |
|--------------------------------|-------|-----|--------|-----------|----|------|
| Target Compounds               |       |     |        | Qvalue    |    |      |
| 9) Benzaldehyde                | 6.35  | 77  | 3634   | Below Cal | #  | 53   |
| 10) Phenol                     | 6.46  | 94  | 35465  | 2.635     | ng | 93   |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70  | 129417 | 15.612    | ng | # 72 |
| 25) Isophorone                 | 7.37  | 82  | 950433 | 46.313    | ng | # 64 |
| 48) Acenaphthylene             | 9.70  | 152 | 214452 | 7.457     | ng | 99   |
| 49) Dimethylphthalate          | 9.56  | 163 | 128044 | 5.878     | ng | 99   |
| 51) Acenaphthene               | 9.87  | 154 | 47822  | 2.725     | ng | 98   |
| 53) 2,4-Dinitrophenol          | 10.14 | 184 | 106    | 5.220     | ng | # 67 |
| 57) Fluorene                   | 10.39 | 166 | 47593  | 2.674     | ng | 97   |
| 64) 4,6-Dinitro-2-methylphenol | 10.58 | 198 | 432    | 7.524     | ng | # 1  |
| 70) Phenanthrene               | 11.36 | 178 | 386016 | 16.327    | ng | 99   |
| 71) Anthracene                 | 11.41 | 178 | 281779 | 11.724    | ng | 98   |
| 74) Fluoranthene               | 12.55 | 202 | 504207 | 20.411    | ng | 98   |
| 76) Benzidine                  | 12.64 | 184 | 1237   | Below Cal | #  | 1    |
| 77) Pyrene                     | 12.78 | 202 | 698399 | 34.036    | ng | 100  |
| 80) Benzo(a)anthracene         | 14.01 | 228 | 403587 | 24.403    | ng | 95   |
| 82) Chrysene                   | 14.01 | 228 | 403587 | 23.758    | ng | 99   |
| 83) Bis(2-ethylhexyl)phthalate | 13.95 | 149 | 51942  | 4.177     | ng | 99   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.89 | 276 | 131435 | 9.108     | ng | 95   |
| 87) Benzo(b)fluoranthene       | 15.02 | 252 | 451396 | 27.906    | ng | # 94 |
| 88) Benzo(k)fluoranthene       | 15.02 | 252 | 451396 | 29.559    | ng | # 96 |
| 89) Benzo(a)pyrene             | 15.38 | 252 | 367381 | 25.384    | ng | # 96 |
| 90) Dibenzo(a,h)anthracene     | 17.07 | 278 | 48649  | 4.093     | ng | 93   |
| 91) Benzo(g,h,i)perylene       | 17.33 | 276 | 133697 | 11.610    | ng | 96   |

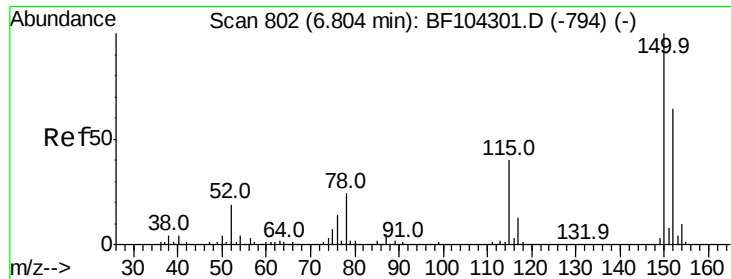
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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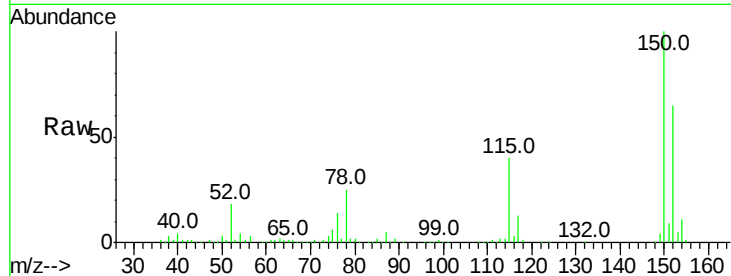


#1

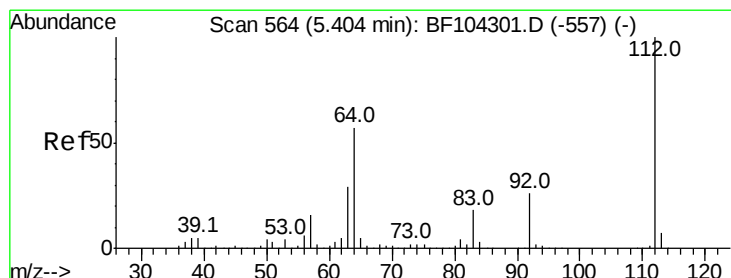
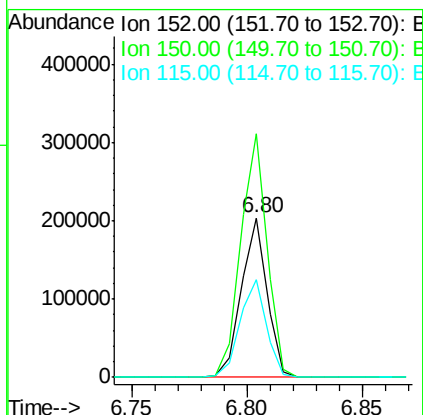
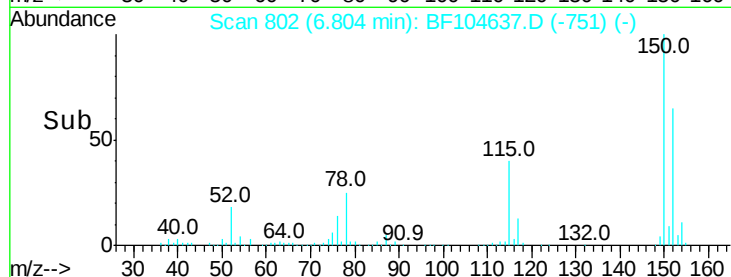
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.80 min Scan# 802  
 Delta R.T. -0.00 min  
 Lab File: BF104637.D  
 Acq: 19 Apr 2018 19:25

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 157868  
 Ion Ratio Lower Upper  
 152 100  
 150 152.8 124.6 186.8  
 115 61.5 50.1 75.1



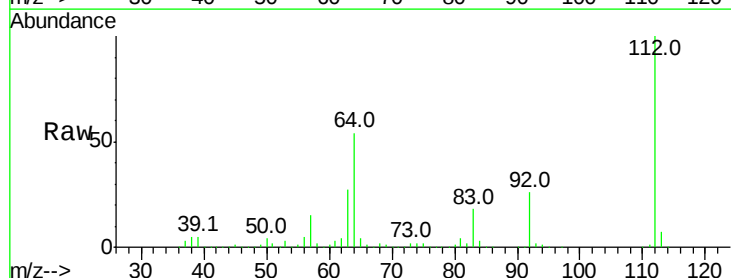
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



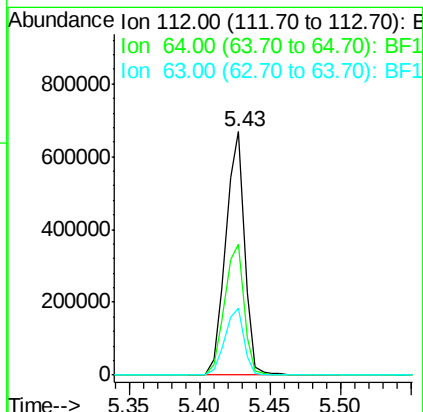
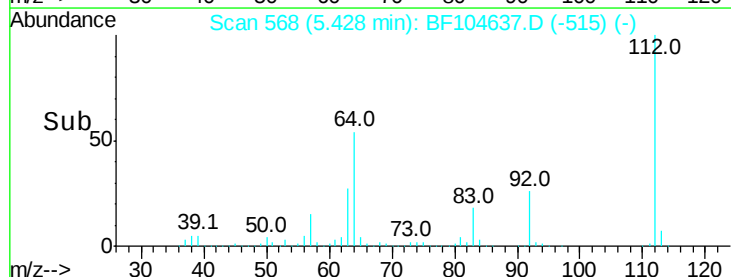
#5

2-Fluorophenol  
 Concen: 60.441 ng  
 RT: 5.43 min Scan# 568  
 Delta R.T. 0.01 min  
 Lab File: BF104637.D  
 Acq: 19 Apr 2018 19:25

Tgt Ion:112 Resp: 624025  
 Ion Ratio Lower Upper  
 112 100  
 64 53.7 47.9 71.9  
 63 27.5 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: 100.686 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.00 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampled :

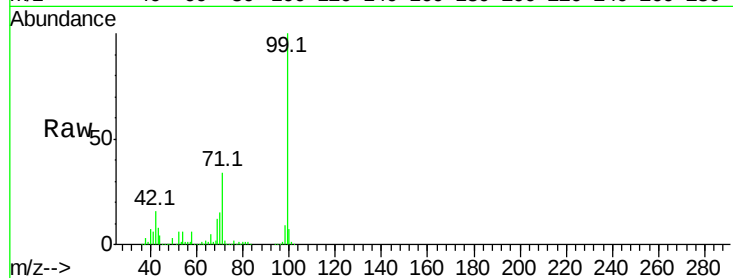
Tot Ion: 99 Resp: 1277256

Ion Ratio Lower Upper

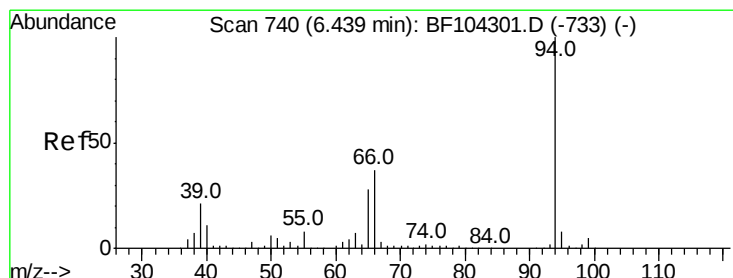
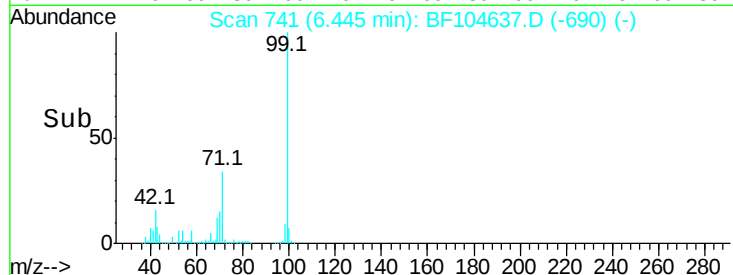
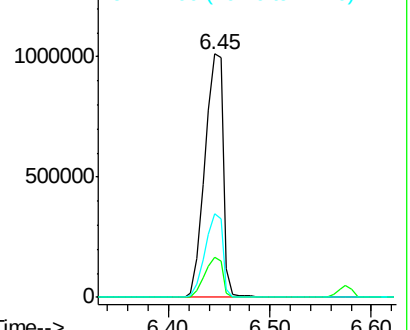
99 100

42 16.4 14.5 21.7

71 34.5 25.4 38.0



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: 2.635 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

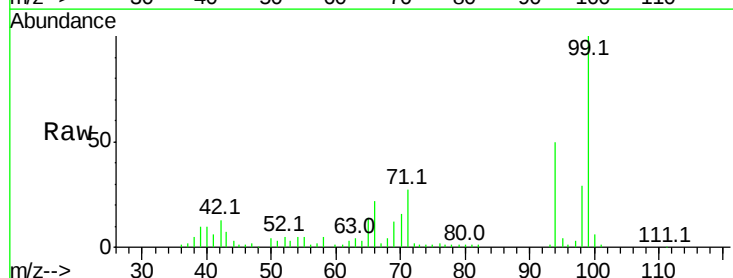
Tgt Ion: 94 Resp: 35465

Ion Ratio Lower Upper

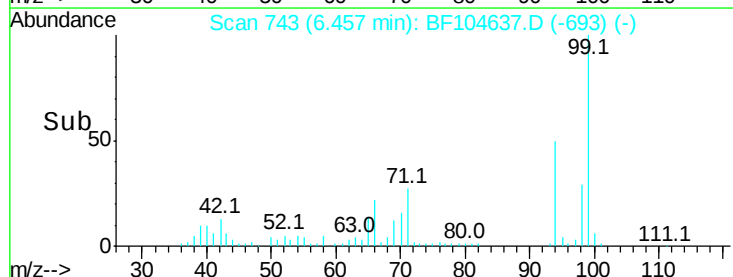
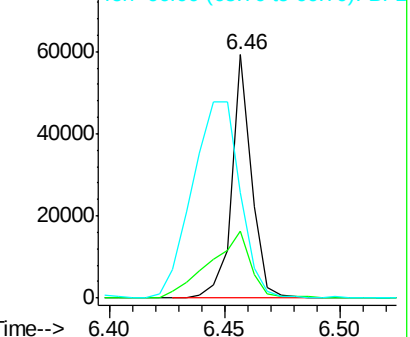
94 100

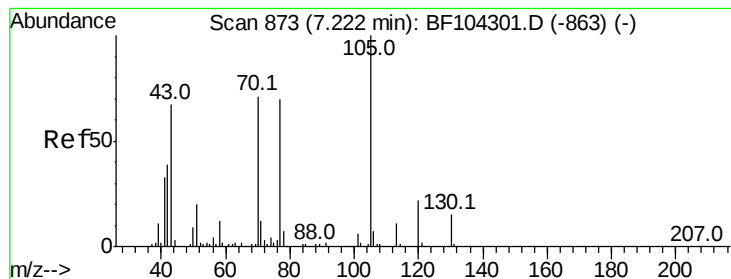
65 27.3 7.9 47.9

66 43.4 16.2 56.2



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: 15.612 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 129417

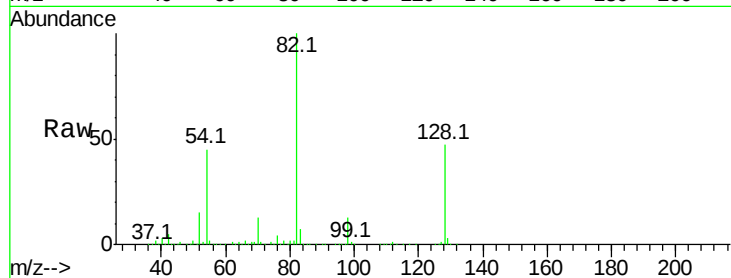
Ion Ratio Lower Upper

70 100

42 40.8 47.5 71.3#

101 0.0 7.4 11.2#

130 2.6 16.6 25.0#

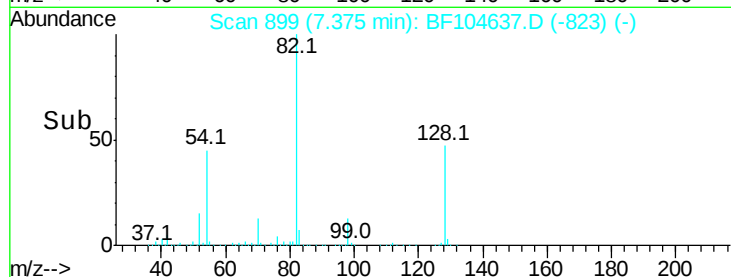


Abundance Ion 70.00 (69.70 to 70.70): BF1

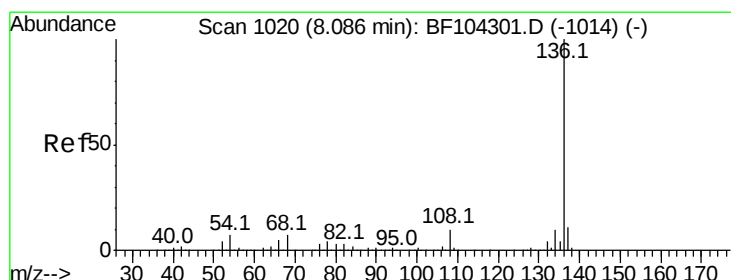
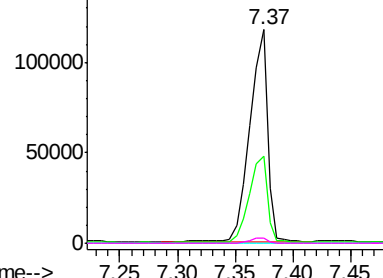
Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1



Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Tgt Ion: 136 Resp: 633692

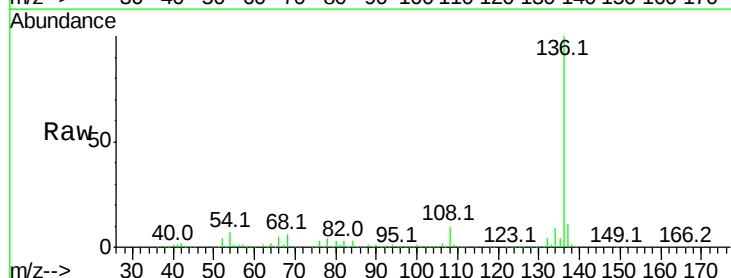
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.0 6.6 9.8

68 6.4 5.0 7.4

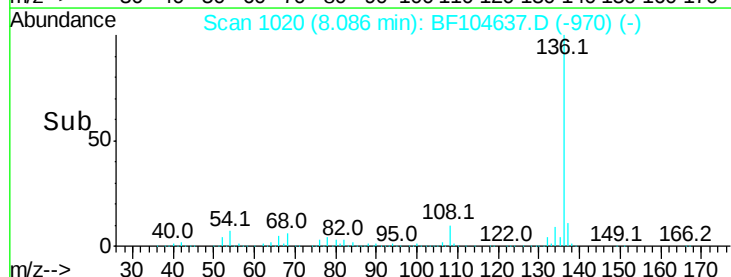


Abundance Ion 136.00 (135.70 to 136.70): BF1

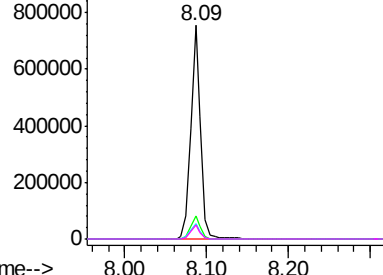
Ion 137.00 (136.70 to 137.70): BF1

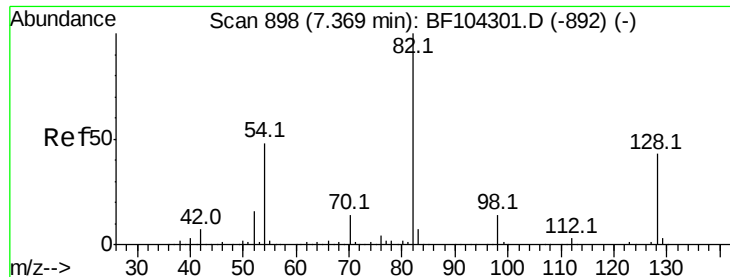
Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



Time-->





#23

Nitrobenzene-d5

Concen: 97.987 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.01 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampled :

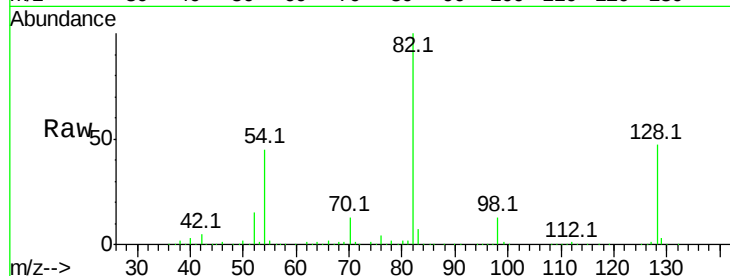
Tot Ion: 82 Resp: 950922

Ion Ratio Lower Upper

82 100

128 46.7 36.1 54.1

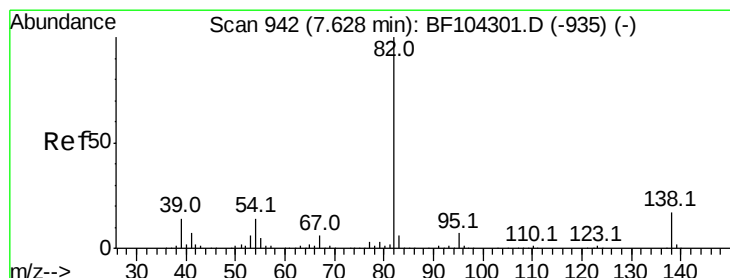
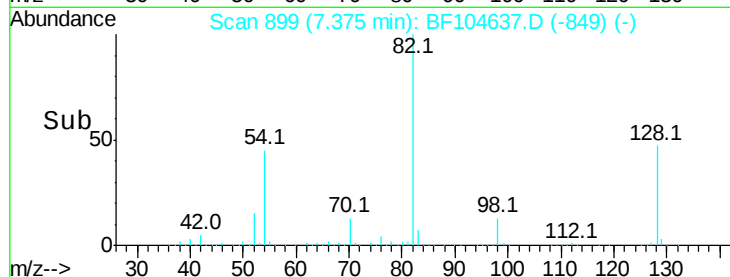
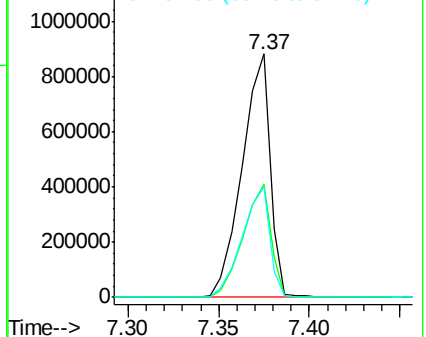
54 45.1 41.4 62.2



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: 46.313 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

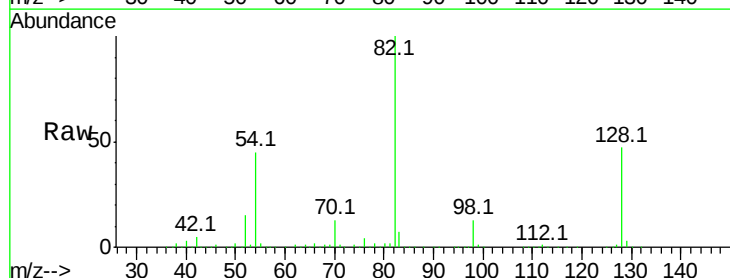
Tgt Ion: 82 Resp: 950433

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

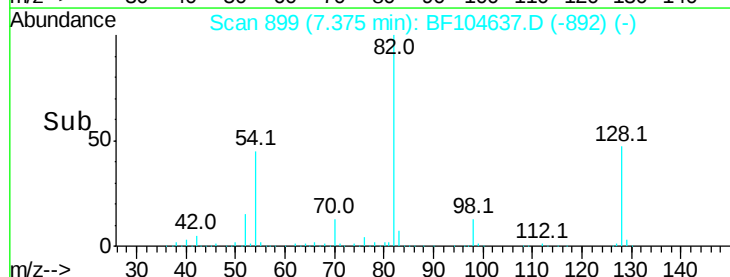
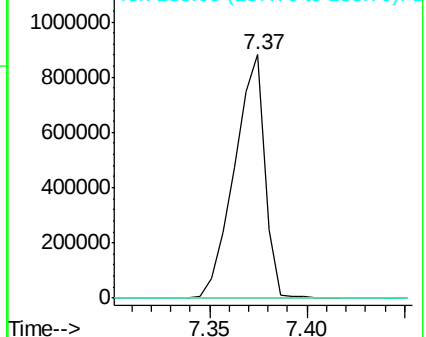
138 0.0 14.9 22.3#

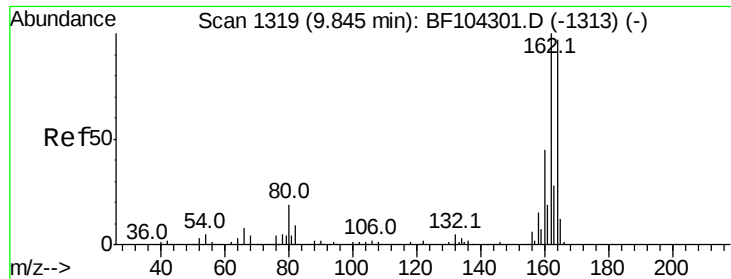


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1

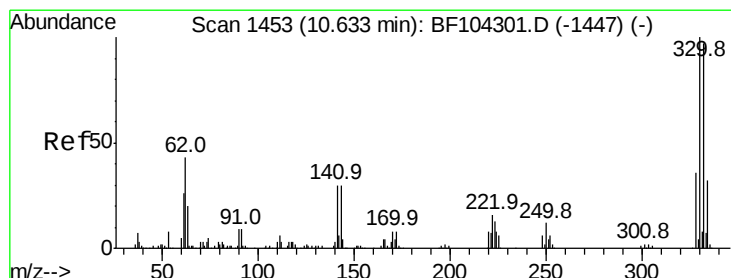
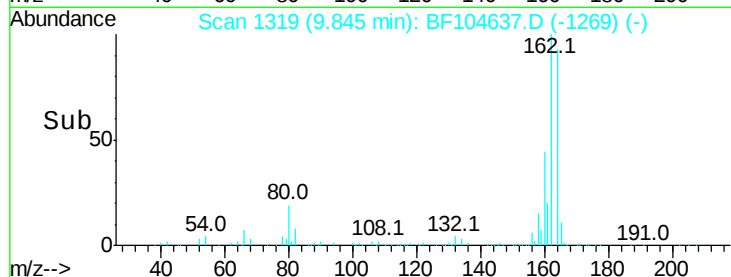
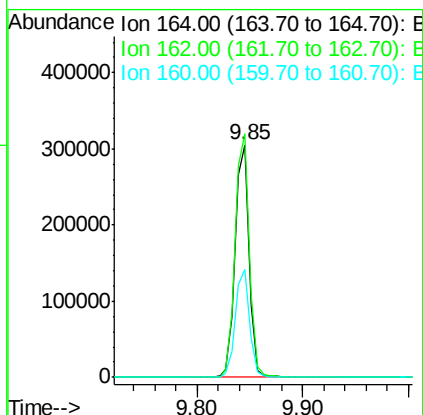
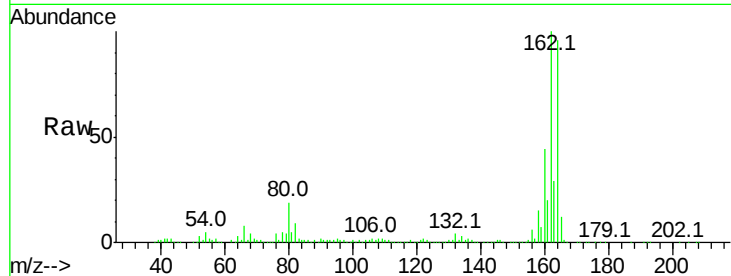




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.01 min  
 Lab File: BF104637.D  
 Acq: 19 Apr 2018 19:25

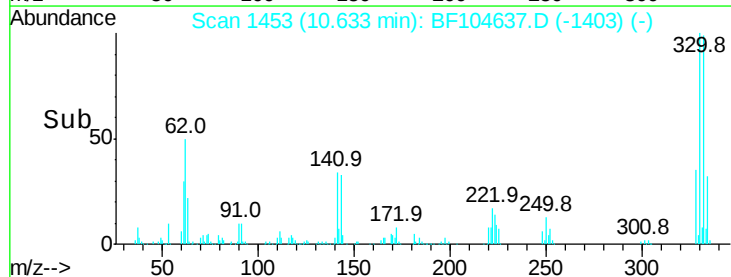
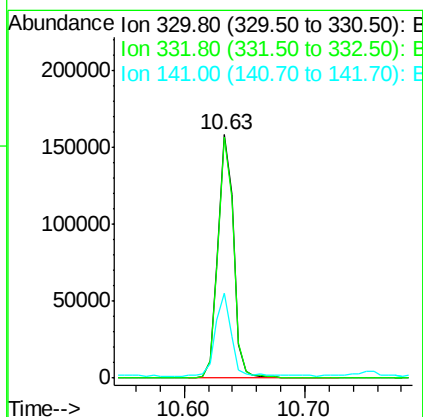
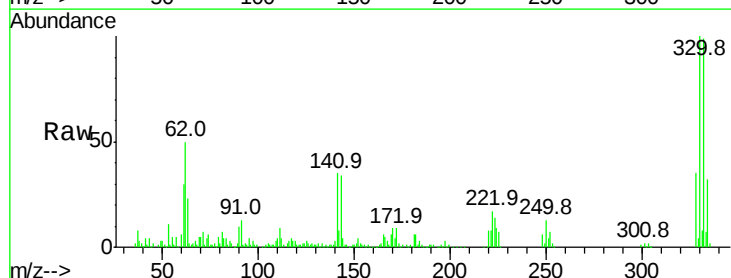
Instrument :  
 BNA\_F  
 ClientSampleId :

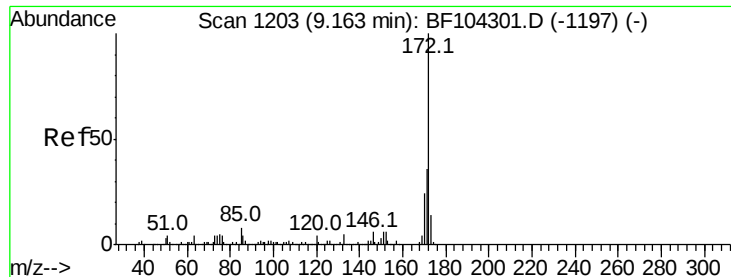
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.7 | 86.1  | 129.1 |
| 160     | 46.4  | 38.3  | 57.5  |



#41  
 2,4,6-Tribromophenol  
 Concen: 48.747 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.01 min  
 Lab File: BF104637.D  
 Acq: 19 Apr 2018 19:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.8  | 77.0  | 115.6 |
| 141     | 33.9  | 29.9  | 44.9  |



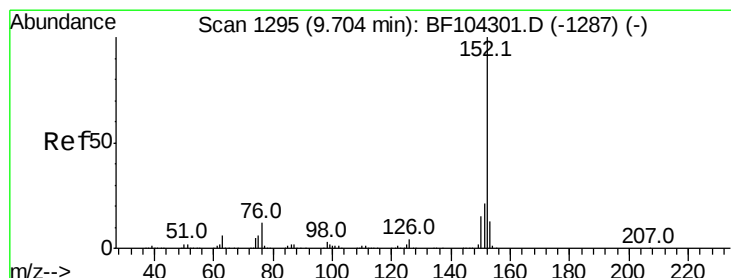
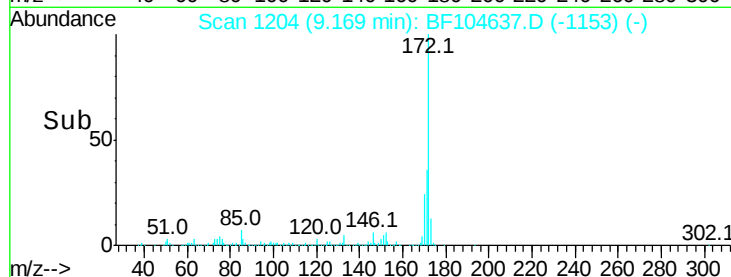
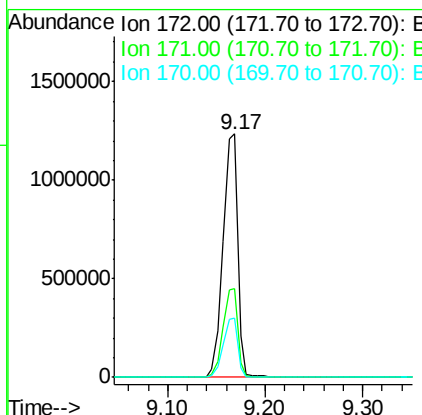
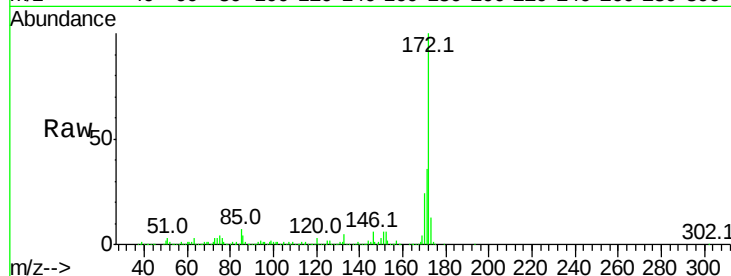


#44  
 2-Fluorobiphenyl  
 Concen: 74.516 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.00 min  
 Lab File: BF104637.D  
 Acq: 19 Apr 2018 19:25

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 1302980  

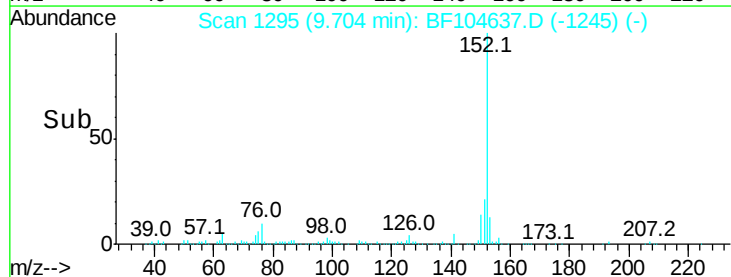
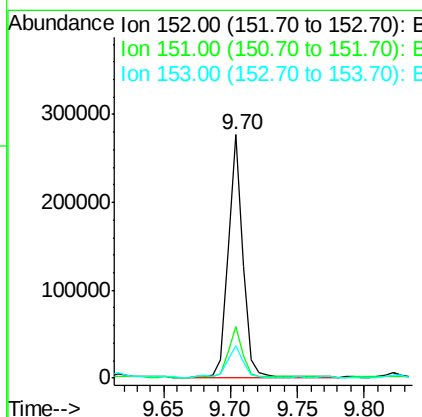
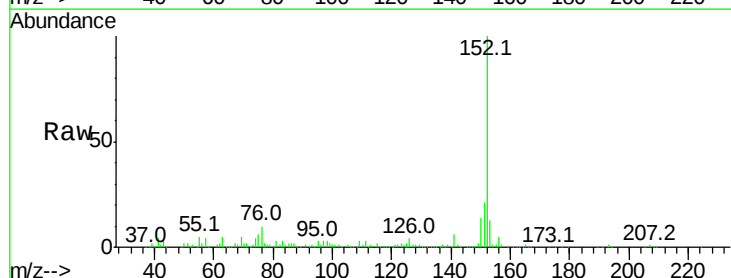
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.5  | 29.7  | 44.5  |
| 170 | 24.3  | 19.6  | 29.4  |

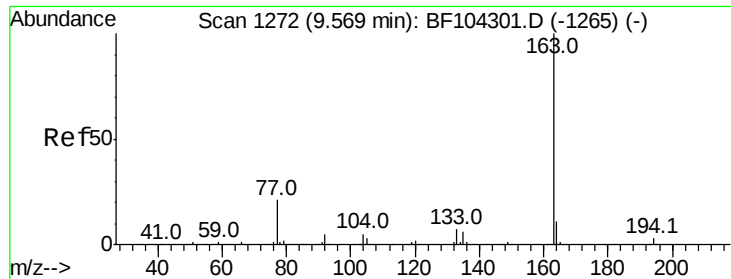


#48  
 Acenaphthylene  
 Concen: 7.457 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.01 min  
 Lab File: BF104637.D  
 Acq: 19 Apr 2018 19:25

Tgt Ion:152 Resp: 214452  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 21.4  | 16.3  | 24.5  |
| 153 | 13.5  | 10.7  | 16.1  |

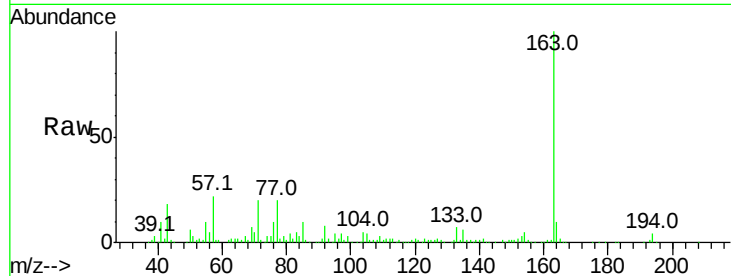




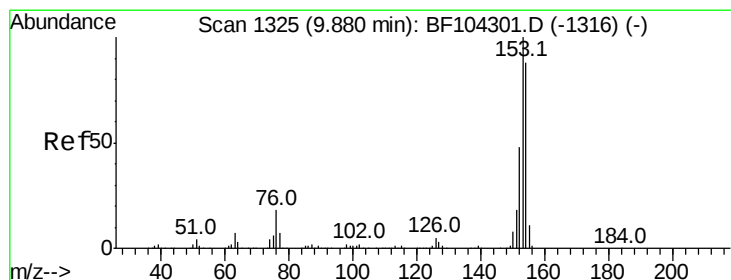
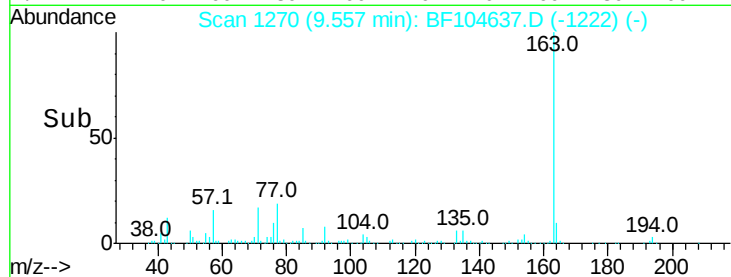
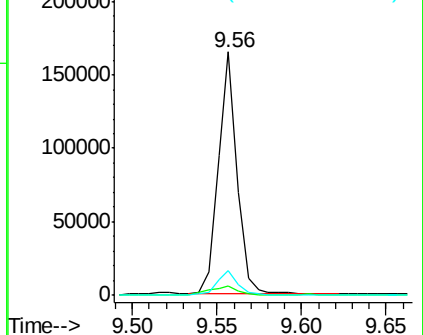
#49  
Dimethylphthalate  
Concen: 5.878 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.02 min  
Lab File: BF104637.D  
Acq: 19 Apr 2018 19:25

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 128044  
Ion Ratio Lower Upper  
163 100  
194 3.8 2.7 4.1  
164 9.9 8.2 12.2

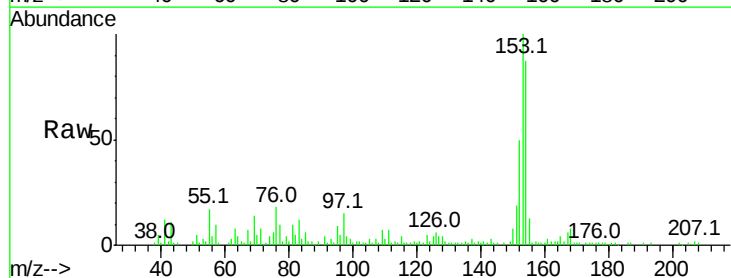


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

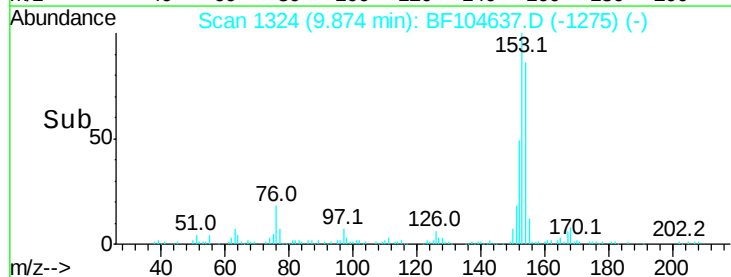
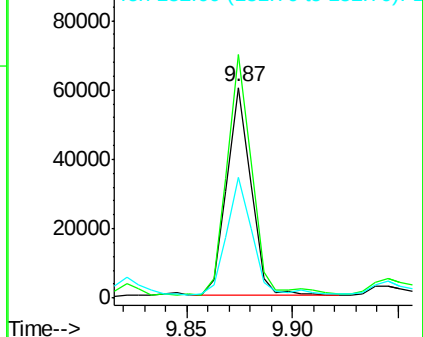


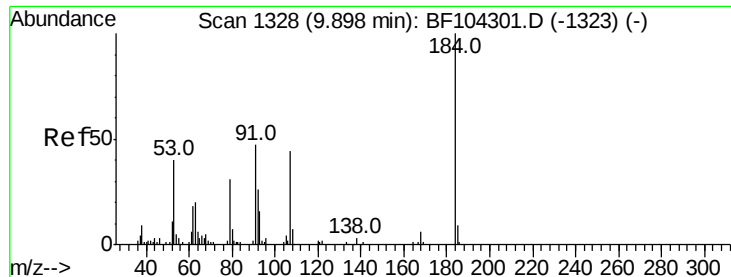
#51  
Acenaphthene  
Concen: 2.725 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BF104637.D  
Acq: 19 Apr 2018 19:25

Tgt Ion:154 Resp: 47822  
Ion Ratio Lower Upper  
154 100  
153 115.5 91.2 136.8  
152 57.3 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E





#53

2,4-Dinitrophenol

Concen: 5.220 ng

RT: 10.14 min Scan# 1369

Delta R.T. 0.22 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampled :

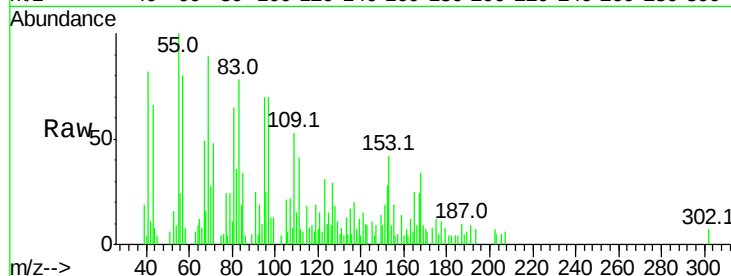
Tot Ion:184 Resp: 106

Ion Ratio Lower Upper

184 100

63 164.7 54.2 81.2#

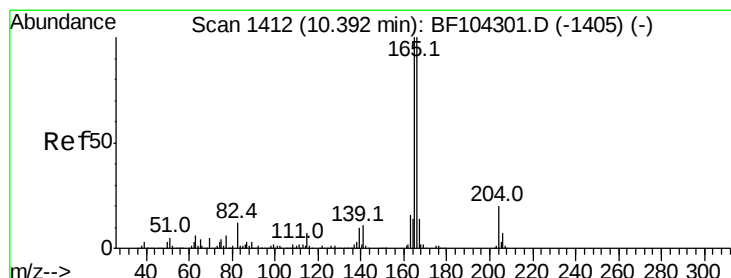
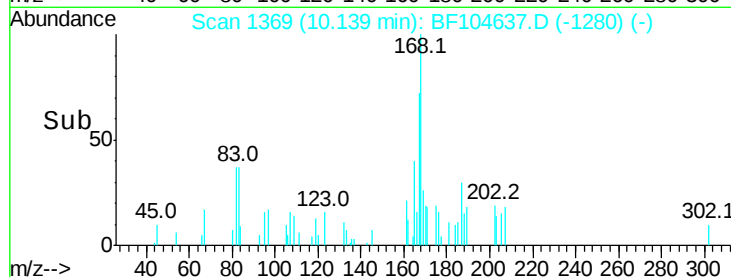
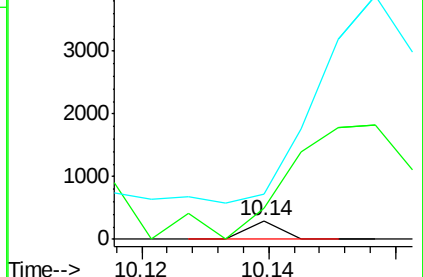
154 241.3 184.0 276.0



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E



#57

Fluorene

Concen: 2.674 ng

RT: 10.39 min Scan# 1412

Delta R.T. -0.01 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

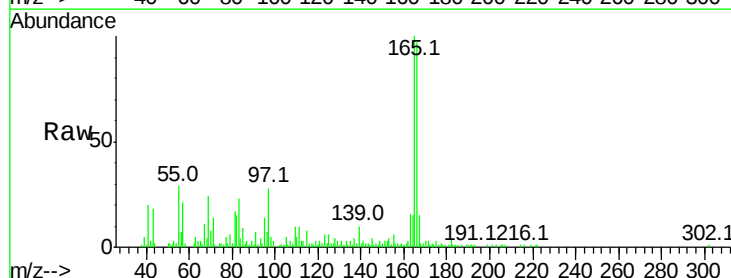
Tgt Ion:166 Resp: 47593

Ion Ratio Lower Upper

166 100

165 102.6 79.8 119.8

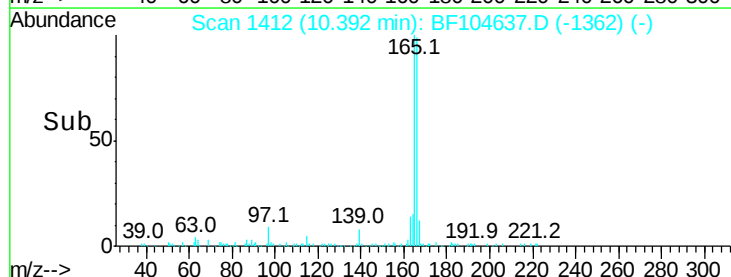
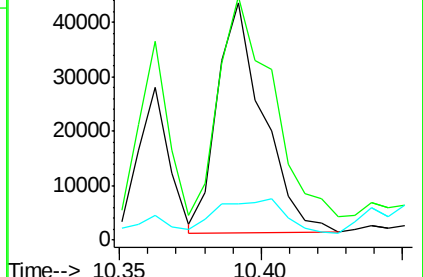
167 15.3 10.6 16.0

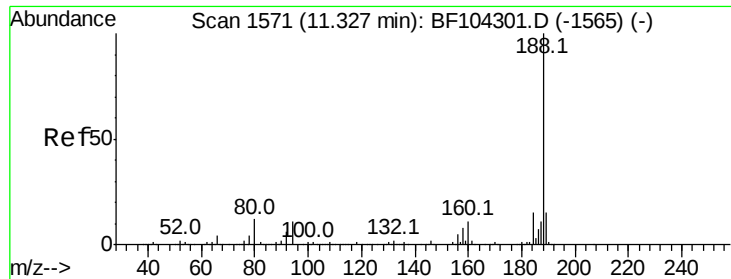


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.00 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampleId :

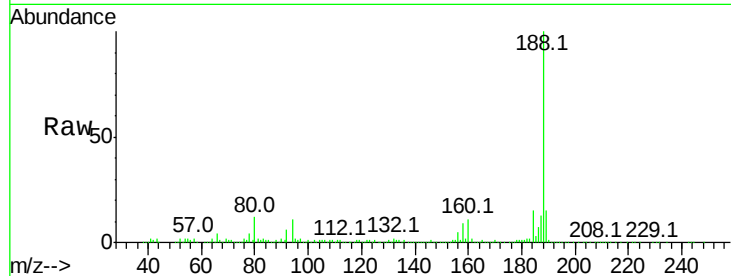
Tot Ion:188 Resp: 424560

Ion Ratio Lower Upper

188 100

94 11.0 8.5 12.7

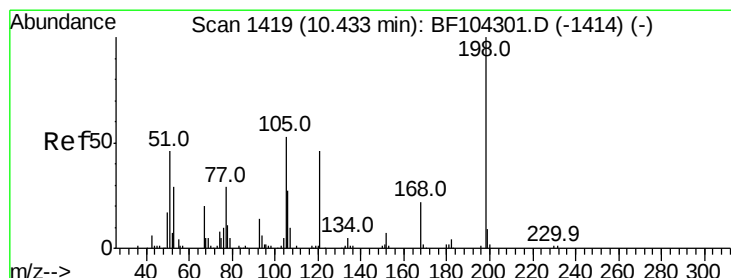
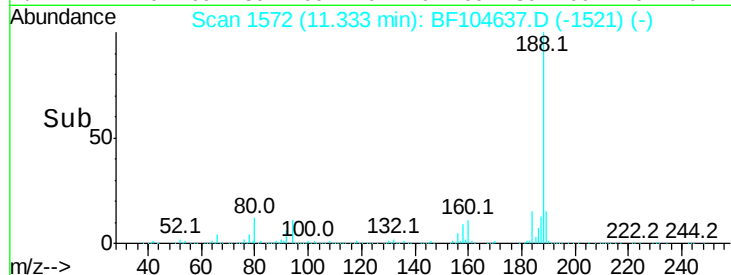
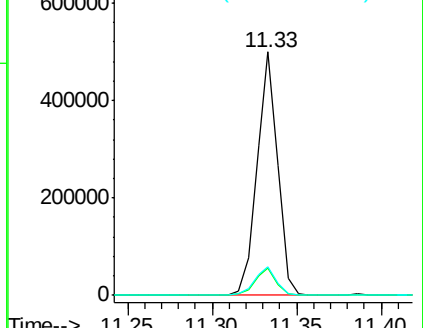
80 11.8 9.2 13.8



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: 7.524 ng

RT: 10.58 min Scan# 1444

Delta R.T. 0.12 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

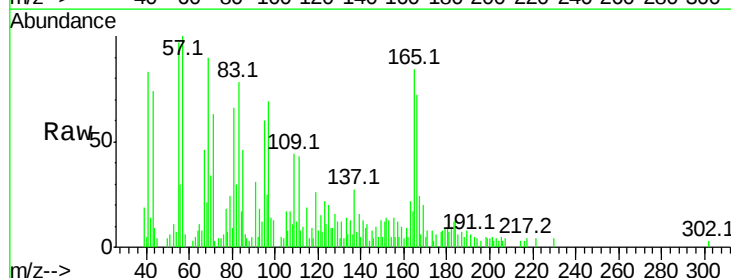
Tgt Ion:198 Resp: 432

Ion Ratio Lower Upper

198 100

51 123.3 37.7 77.7#

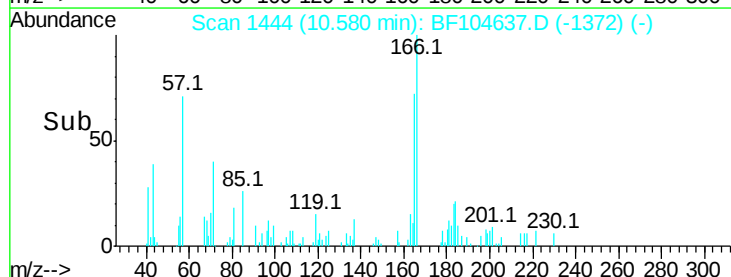
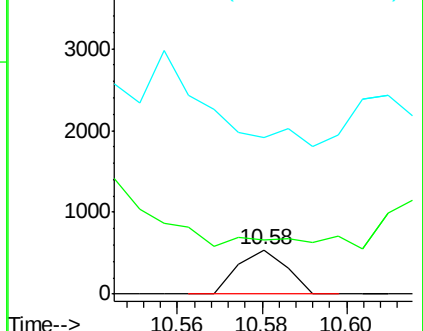
105 354.3 36.3 76.3#

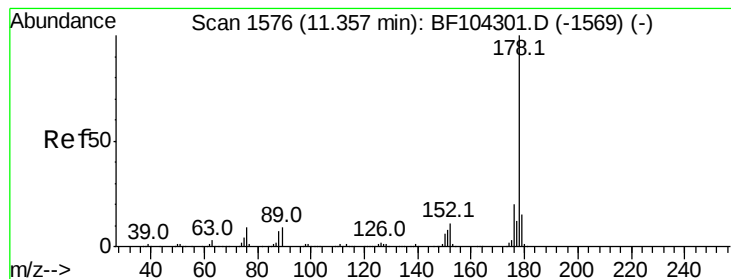


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 16.327 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampleId :

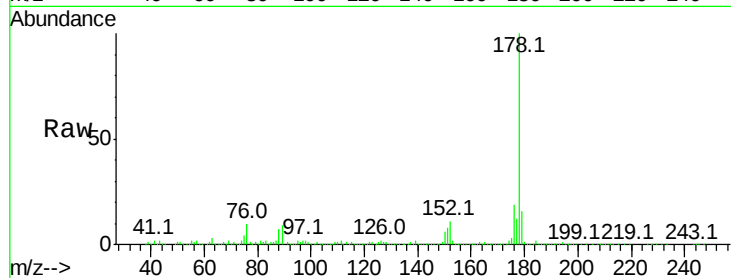
Tot Ion:178 Resp: 386016

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.8

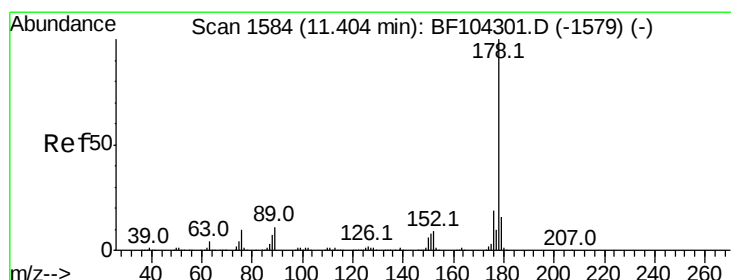
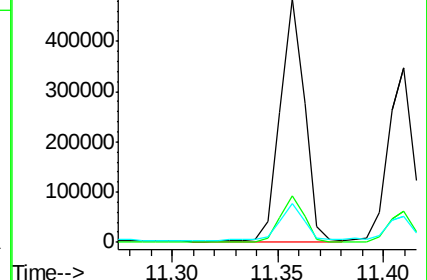
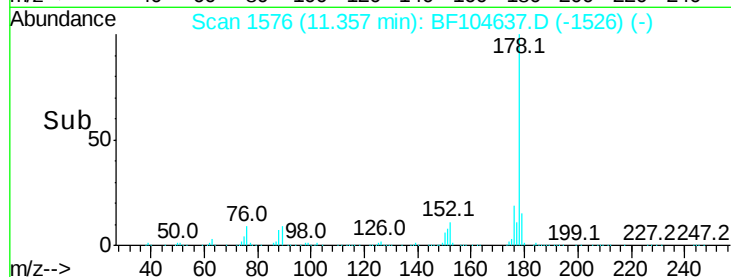
179 16.1 13.0 19.6



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



#71

Anthracene

Concen: 11.724 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

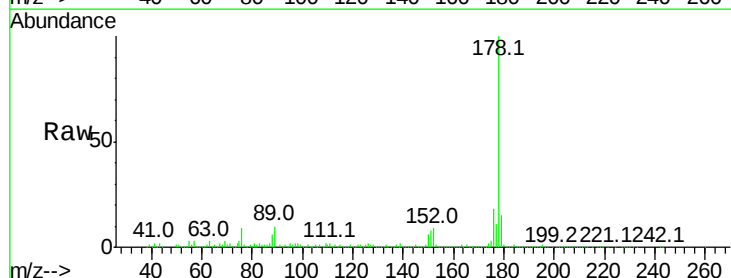
Tgt Ion:178 Resp: 281779

Ion Ratio Lower Upper

178 100

176 18.2 15.4 23.2

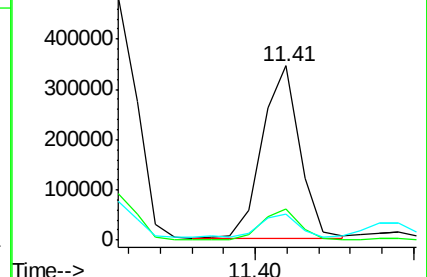
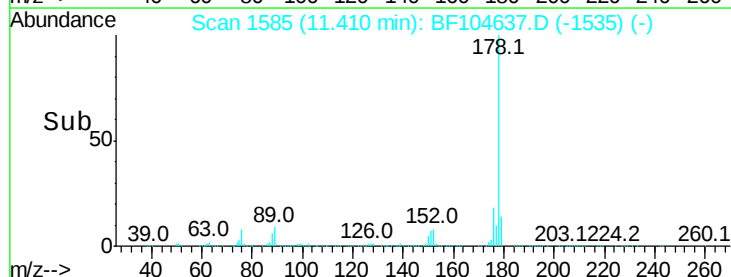
179 15.3 12.6 19.0

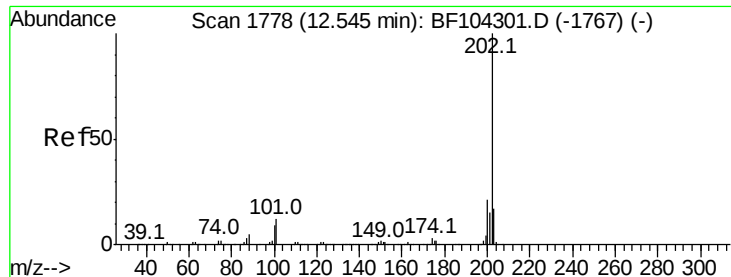


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 20.411 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.00 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampleId :

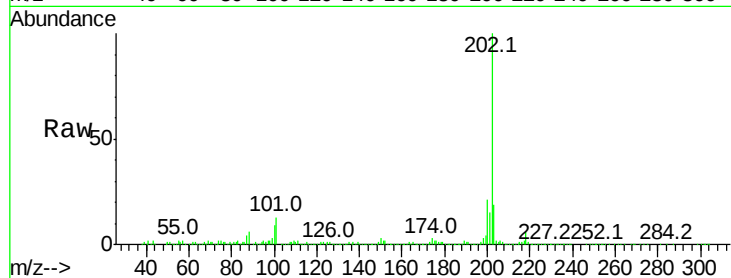
Tot Ion:202 Resp: 504207

Ion Ratio Lower Upper

202 100

101 12.9 0.0 34.1

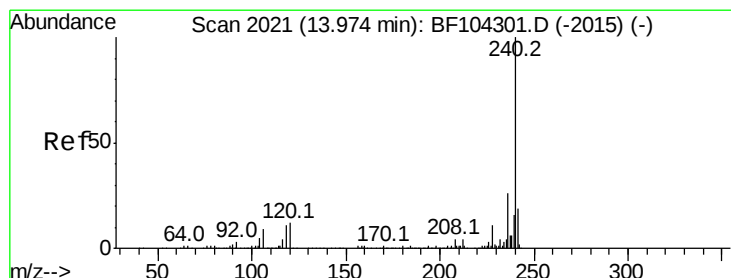
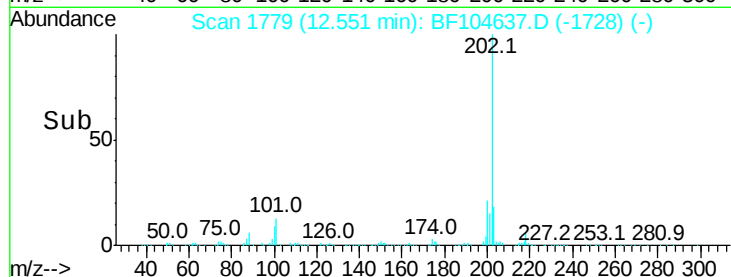
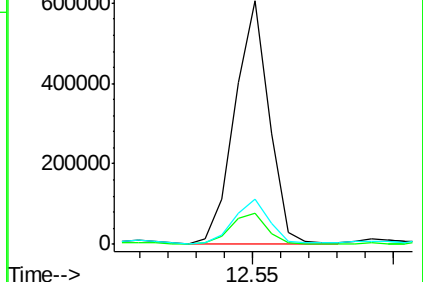
203 18.7 0.0 38.1



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: BF104637.D

Acq: 19 Apr 2018 19:25

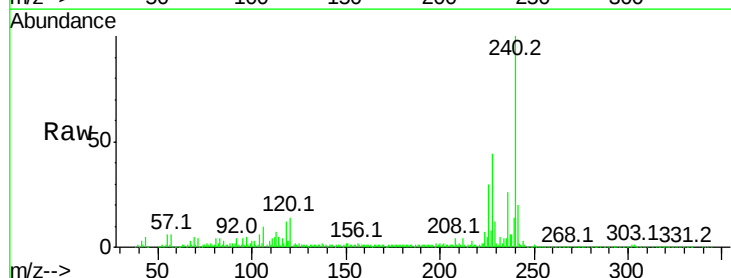
Tgt Ion:240 Resp: 276830

Ion Ratio Lower Upper

240 100

120 14.1 9.5 14.3

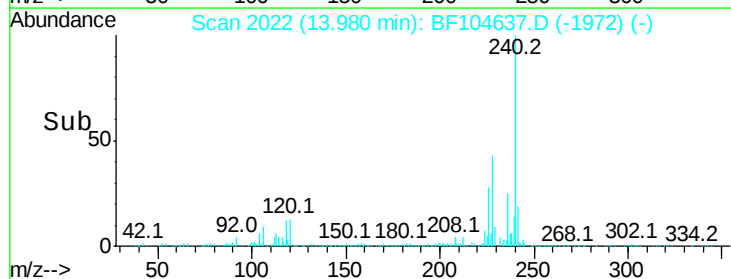
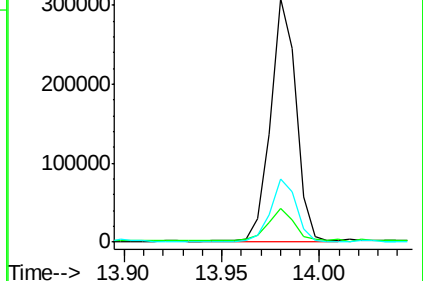
236 25.8 20.7 31.1

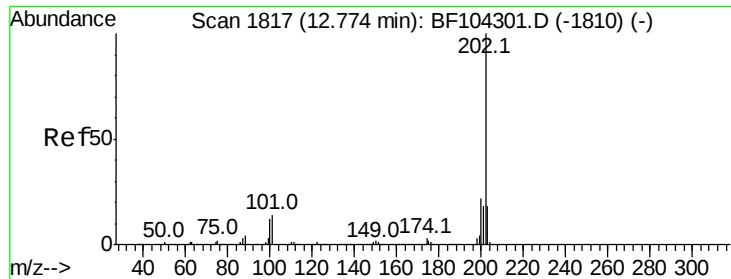


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 34.036 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampled :

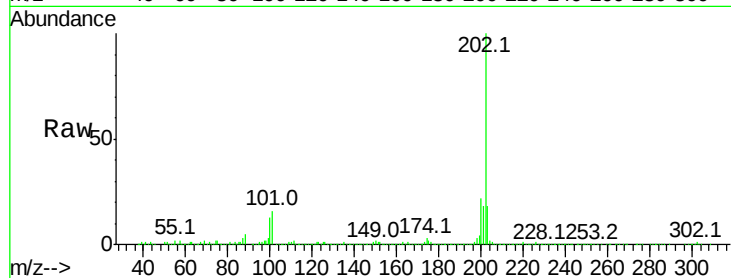
Tot Ion:202 Resp: 698399

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

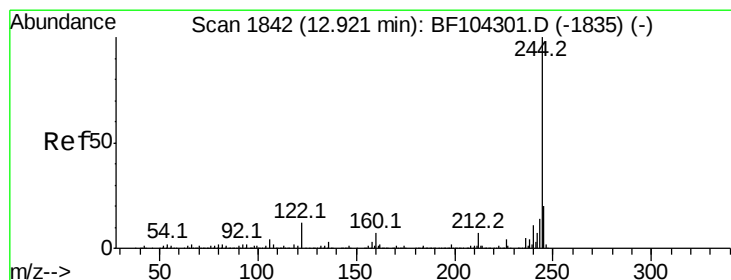
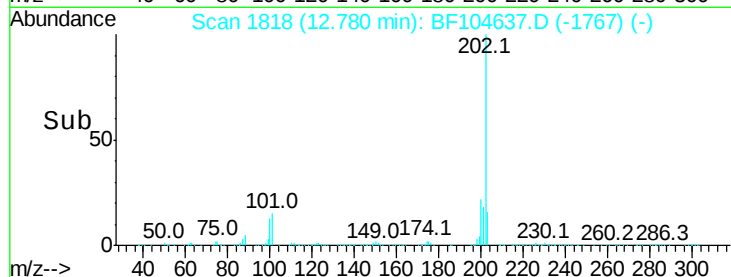
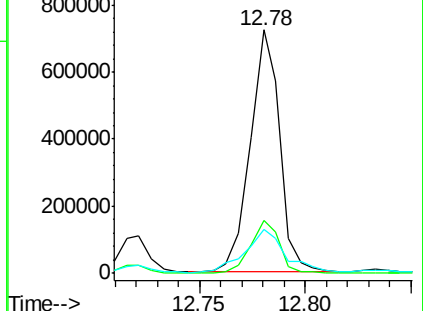
203 18.1 14.3 21.5



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: 81.442 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.00 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

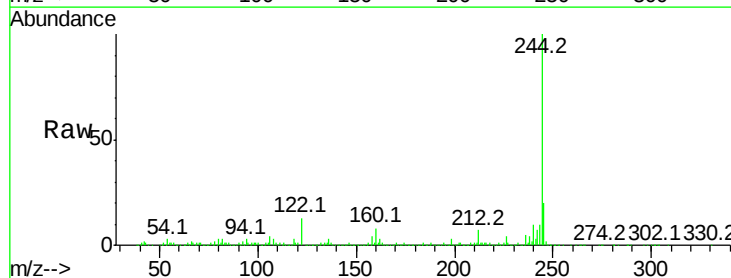
Tgt Ion:244 Resp: 988917

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

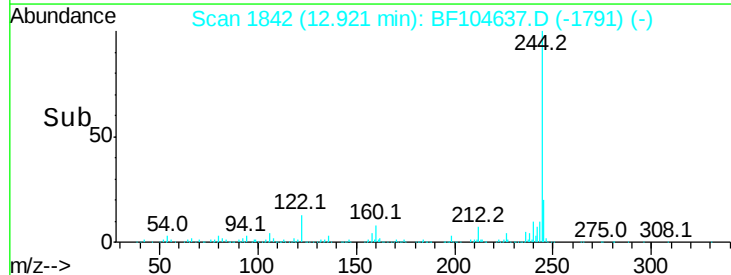
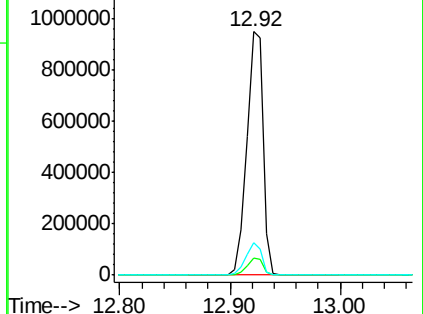
122 13.2 11.0 16.4

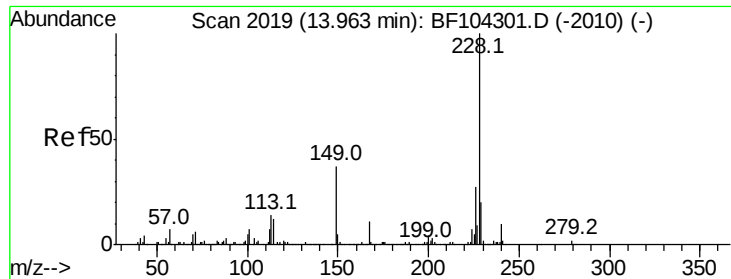


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

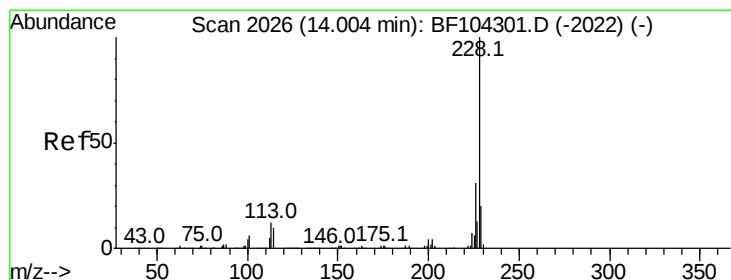
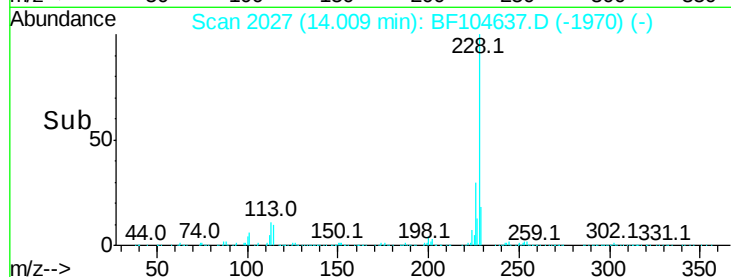
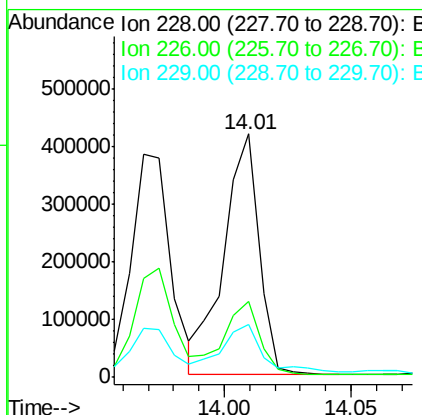
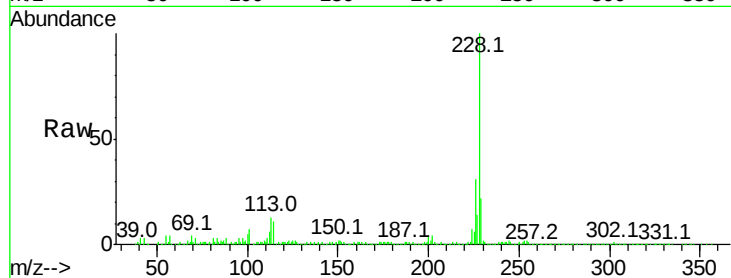




#80  
Benzo(a)anthracene  
Concen: 24.403 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. 0.04 min  
Lab File: BF104637.D  
Acq: 19 Apr 2018 19:25

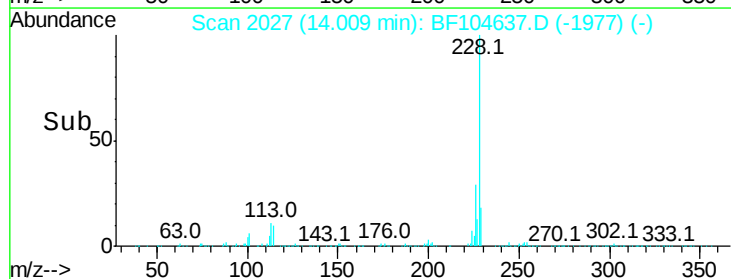
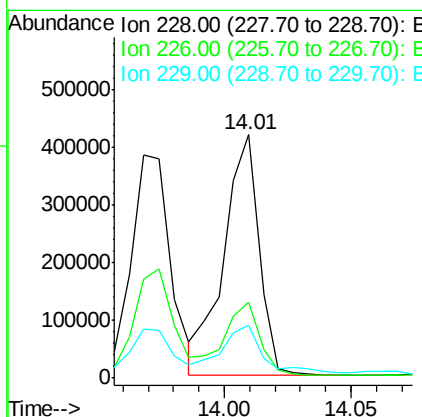
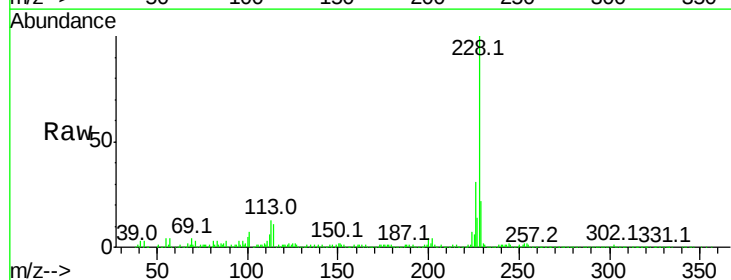
Instrument :  
BNA\_F  
ClientSampleId :

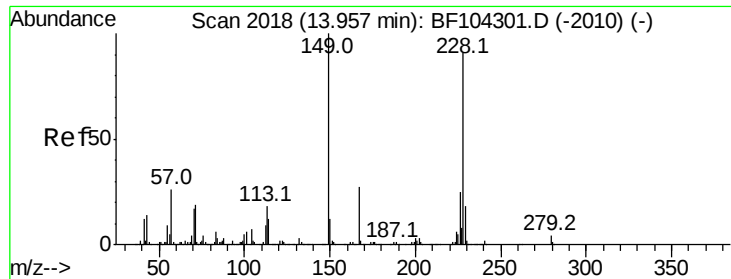
Tot Ion:228 Resp: 403587  
Ion Ratio Lower Upper  
228 100  
226 31.1 22.6 33.8  
229 21.7 15.8 23.6



#82  
Chrysene  
Concen: 23.758 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.01 min  
Lab File: BF104637.D  
Acq: 19 Apr 2018 19:25

Tgt Ion:228 Resp: 403587  
Ion Ratio Lower Upper  
228 100  
226 31.1 25.0 37.6  
229 21.7 16.2 24.4

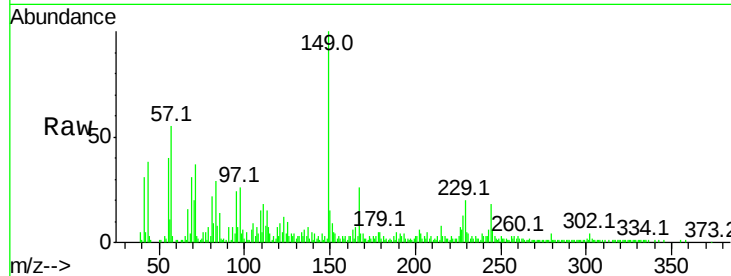




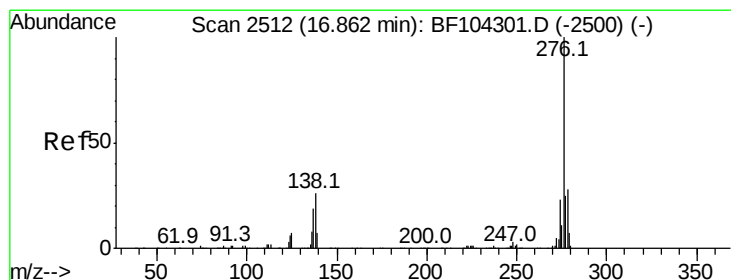
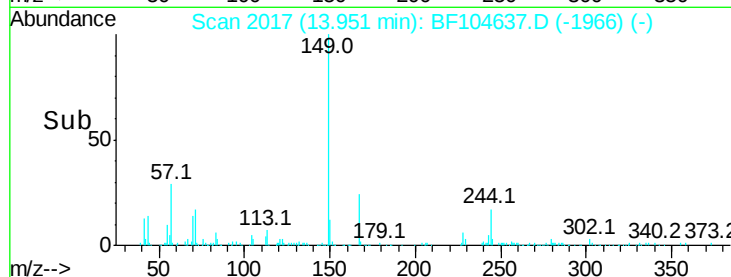
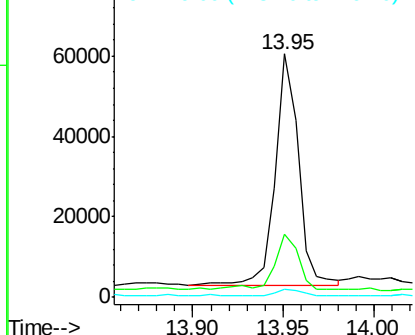
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.177 ng  
 RT: 13.95 min Scan# 2017  
 Delta R.T. -0.00 min  
 Lab File: BF104637.D  
 Acq: 19 Apr 2018 19:25

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:149 Resp: 51942  
 Ion Ratio Lower Upper  
 149 100  
 167 26.0 21.3 31.9  
 279 3.5 3.0 4.4

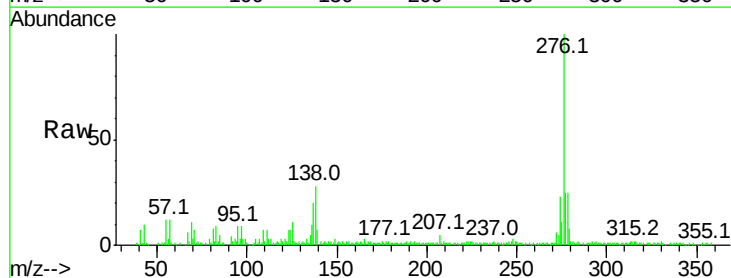


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

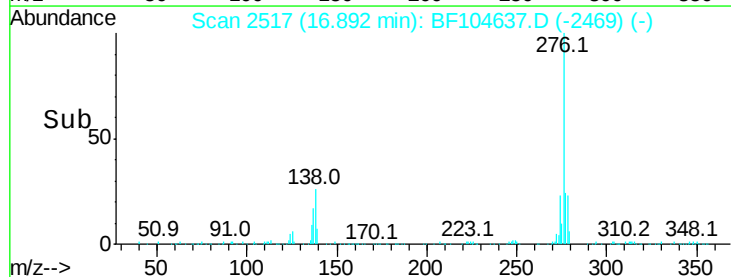
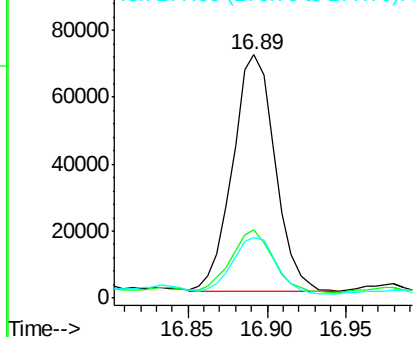


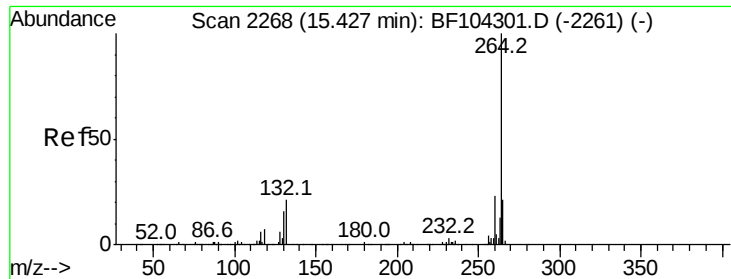
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 9.108 ng  
 RT: 16.89 min Scan# 2517  
 Delta R.T. -0.02 min  
 Lab File: BF104637.D  
 Acq: 19 Apr 2018 19:25

Tgt Ion:276 Resp: 131435  
 Ion Ratio Lower Upper  
 276 100  
 138 26.2 25.0 37.6  
 277 24.9 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

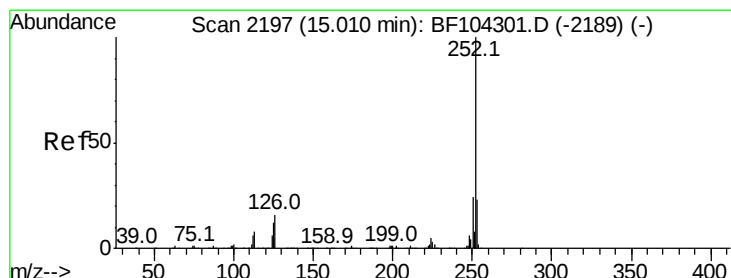
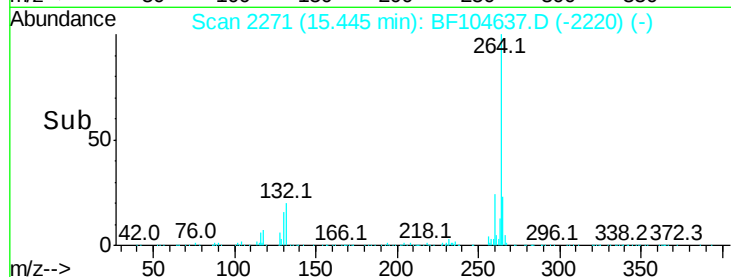
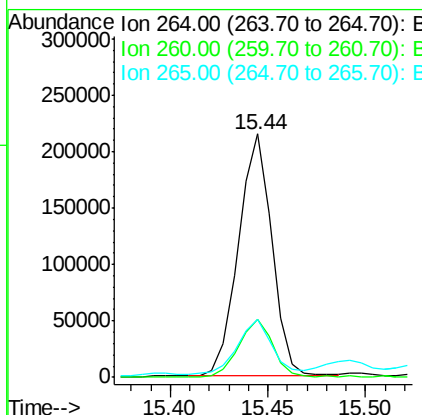
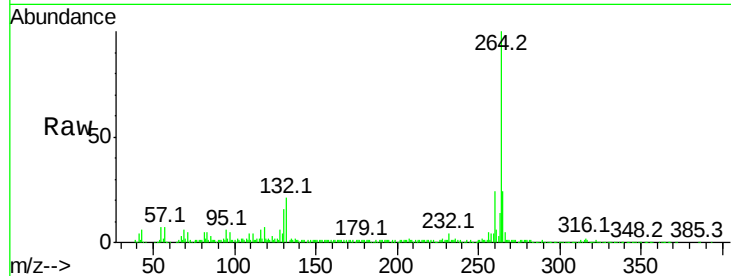




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2271  
Delta R.T. -0.00 min  
Lab File: BF104637.D  
Acq: 19 Apr 2018 19:25

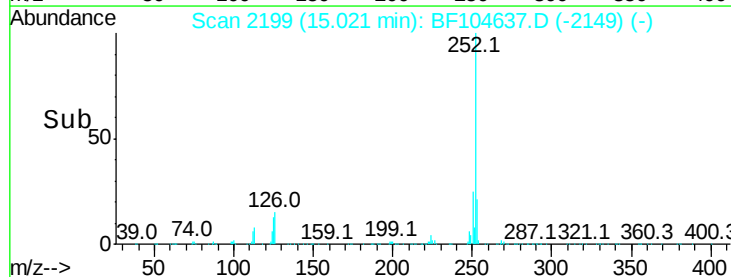
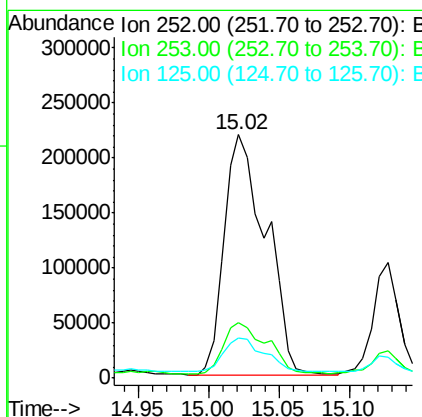
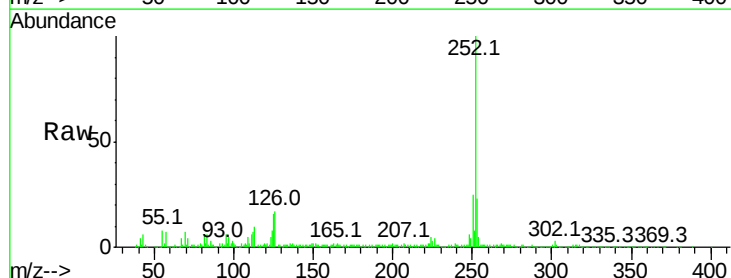
Instrument :  
BNA\_F  
ClientSampleId :

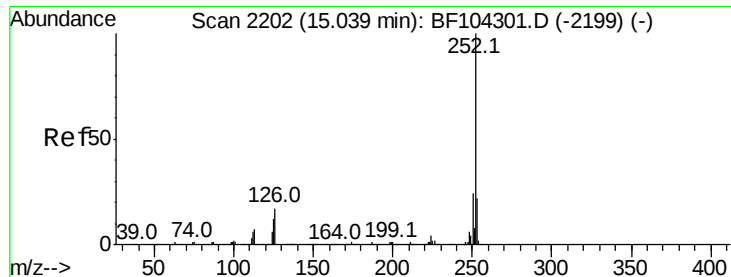
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.2  | 28.8  |
| 265     | 23.6  | 17.5  | 26.3  |



#87  
Benzo(b)fluoranthene  
Concen: 27.906 ng  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.01 min  
Lab File: BF104637.D  
Acq: 19 Apr 2018 19:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.0  | 25.6  |
| 125     | 16.2  | 9.0   | 13.6  |

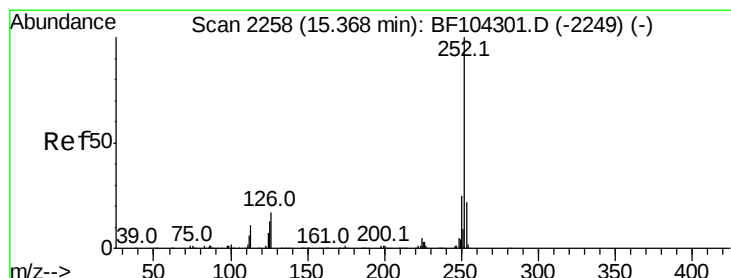
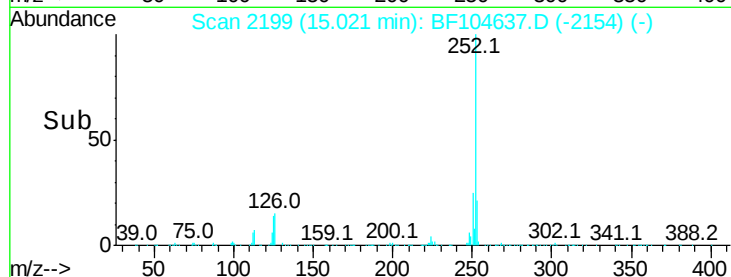
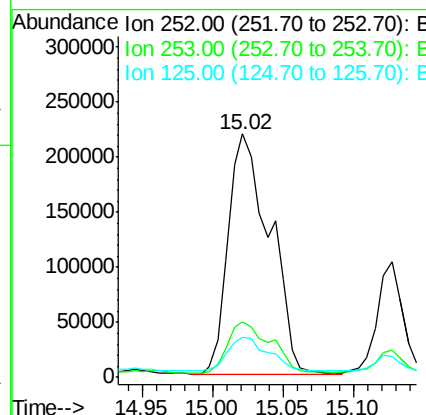
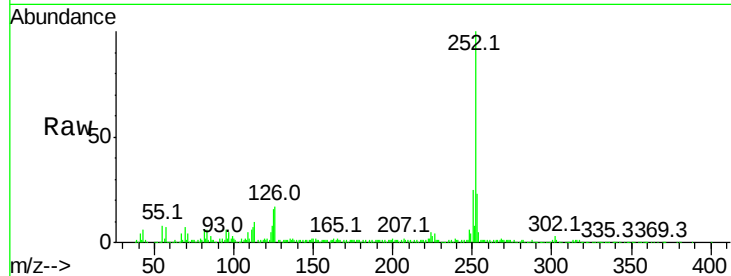




#88  
Benzo(k)fluoranthene  
Concen: 29.559 ng  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.04 min  
Lab File: BF104637.D  
Acq: 19 Apr 2018 19:25

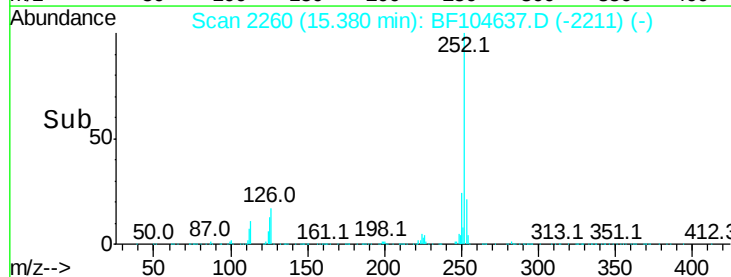
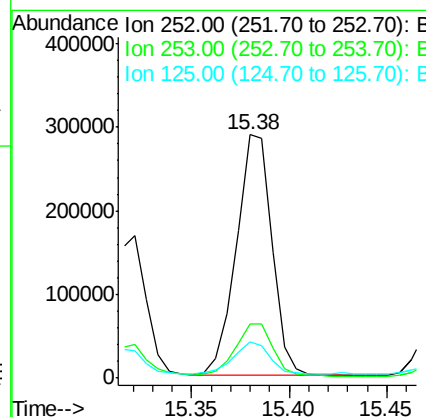
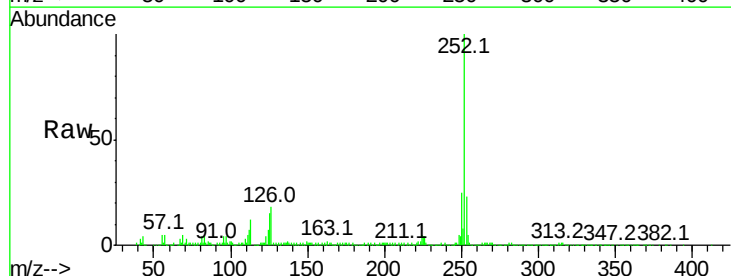
Instrument :  
BNA\_F  
ClientSampleId :

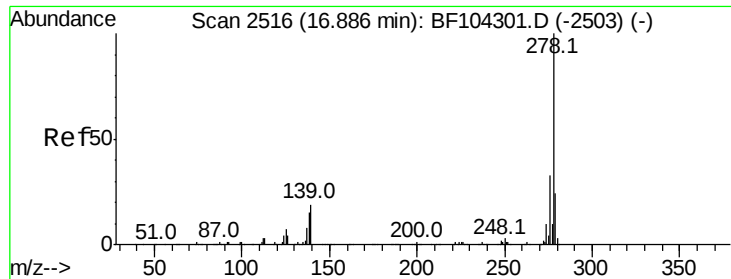
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.9  | 26.9  |
| 125     | 16.2  | 10.2  | 15.2  |



#89  
Benzo(a)pyrene  
Concen: 25.384 ng  
RT: 15.38 min Scan# 2260  
Delta R.T. -0.01 min  
Lab File: BF104637.D  
Acq: 19 Apr 2018 19:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.1  | 25.7  |
| 125     | 14.7  | 9.8   | 14.6  |





#90

Dibenzo(a,h)anthracene

Concen: 4.093 ng

RT: 17.07 min Scan# 2547

Delta R.T. 0.14 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

Instrument :

BNA\_F

ClientSampleId :

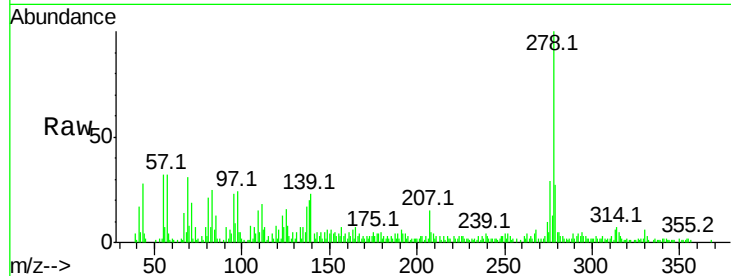
Tot Ion:278 Resp: 48649

Ion Ratio Lower Upper

278 100

139 23.4 15.9 23.9

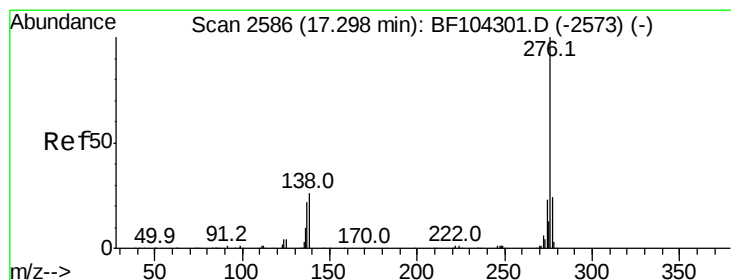
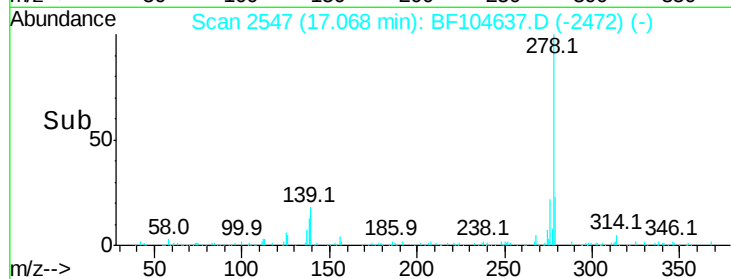
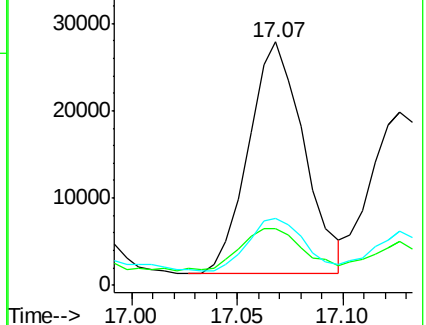
279 27.3 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.610 ng

RT: 17.33 min Scan# 2592

Delta R.T. -0.02 min

Lab File: BF104637.D

Acq: 19 Apr 2018 19:25

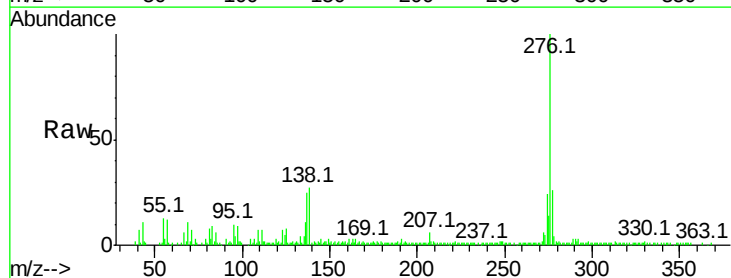
Tgt Ion:276 Resp: 133697

Ion Ratio Lower Upper

276 100

277 25.8 17.9 26.9

138 26.8 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

