

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF061518\  
 Data File : BF106509.D  
 Acq On : 15 Jun 2018 22:58  
 Operator : JU/SJ  
 Sample : J3486-05 2X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DOCUMENTATION-8

Quant Time: Jun 16 02:06:12 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 15 11:11:47 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 118969   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 422410   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.01 | 164  | 176004   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 342183   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 318600   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.69 | 264  | 223173   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |      |
|-----------------------------|-------|-----|--------|-------|----|------|
| System Monitoring Compounds |       |     |        |       |    |      |
| 5) 2-Fluorophenol           | 5.61  | 112 | 326394 | 46.43 | ng | 0.00 |
| 7) Phenol-d6                | 6.61  | 99  | 399138 | 44.94 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.52  | 82  | 241574 | 33.64 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330 | 84935  | 50.15 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.32  | 172 | 422590 | 32.90 | ng | 0.00 |
| 78) Terphenyl-d14           | 13.08 | 244 | 494196 | 38.53 | ng | 0.00 |

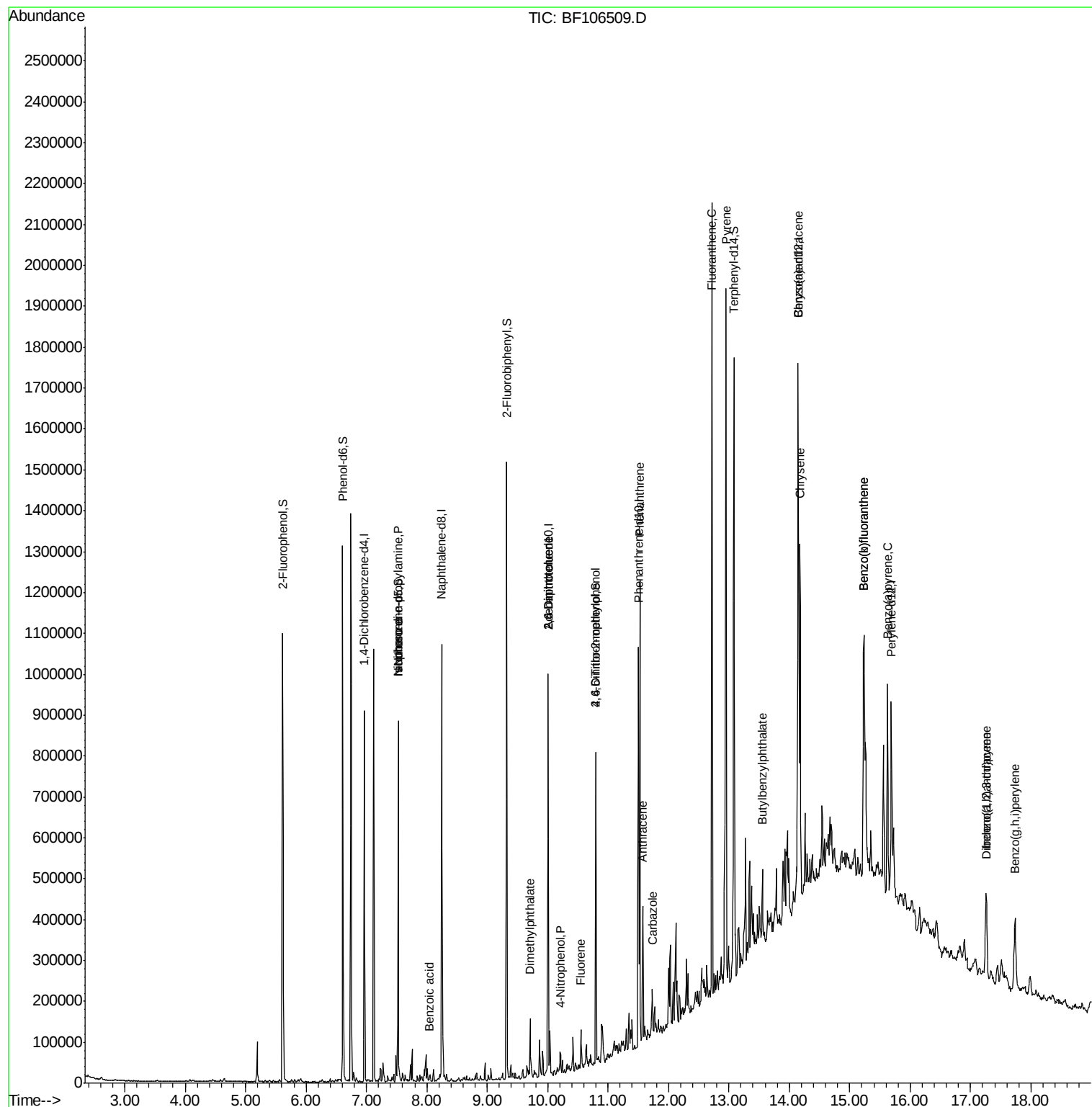
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70  | 32954  | 4.946  | ng | # 76 |
| 25) Isophorone                 | 7.52  | 82  | 241616 | 17.228 | ng | # 64 |
| 32) Benzoic acid               | 8.04  | 122 | 119    | 7.312  | ng | # 24 |
| 49) Dimethylphthalate          | 9.71  | 163 | 40746  | 3.240  | ng | # 99 |
| 50) 2,6-Dinitrotoluene         | 10.01 | 165 | 22999  | 8.954  | ng | # 26 |
| 55) 4-Nitrophenol              | 10.21 | 139 | 6082   | 2.603  | ng | # 15 |
| 56) 2,4-Dinitrotoluene         | 10.01 | 165 | 22999  | 7.130  | ng | # 23 |
| 57) Fluorene                   | 10.55 | 166 | 23647  | 2.055  | ng | 97   |
| 64) 4,6-Dinitro-2-methylphenol | 10.80 | 198 | 116    | 6.349  | ng | # 1  |
| 70) Phenanthrene               | 11.52 | 178 | 382535 | 22.827 | ng | 99   |
| 71) Anthracene                 | 11.57 | 178 | 126369 | 7.527  | ng | 99   |
| 72) Carbazole                  | 11.73 | 167 | 38347  | 2.474  | ng | 97   |
| 74) Fluoranthene               | 12.72 | 202 | 804322 | 45.006 | ng | 98   |
| 77) Pyrene                     | 12.95 | 202 | 745779 | 37.389 | ng | 99   |
| 79) Butylbenzylphthalate       | 13.55 | 149 | 15926  | 2.133  | ng | # 89 |
| 80) Benzo(a)anthracene         | 14.14 | 228 | 426178 | 22.478 | ng | 96   |
| 82) Chrysene                   | 14.18 | 228 | 352649 | 20.372 | ng | 98   |
| 85) Indeno(1,2,3-cd)pyrene     | 17.26 | 276 | 147041 | 10.644 | ng | # 89 |
| 87) Benzo(b)fluoranthene       | 15.24 | 252 | 512634 | 37.999 | ng | 96   |
| 88) Benzo(k)fluoranthene       | 15.24 | 252 | 512634 | 38.369 | ng | 96   |
| 89) Benzo(a)pyrene             | 15.62 | 252 | 259272 | 21.367 | ng | 96   |
| 90) Dibenzo(a,h)anthracene     | 17.27 | 278 | 36376  | 3.596  | ng | 93   |
| 91) Benzo(g,h,i)perylene       | 17.74 | 276 | 152402 | 15.502 | ng | # 91 |

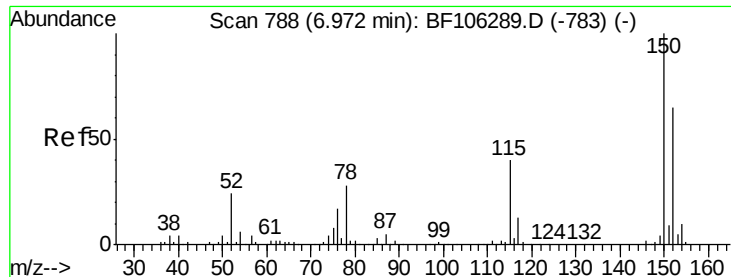
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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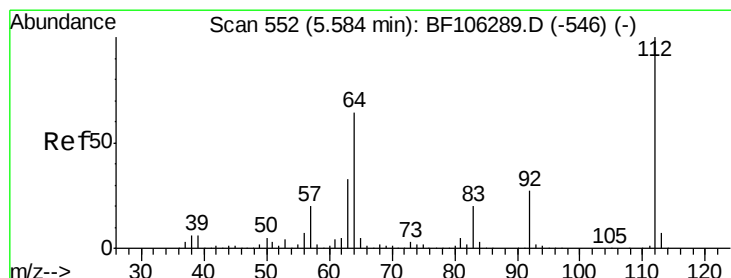
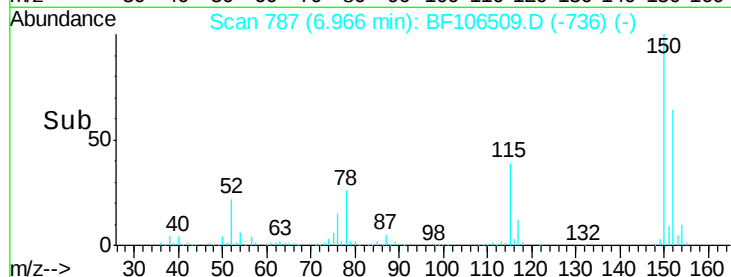
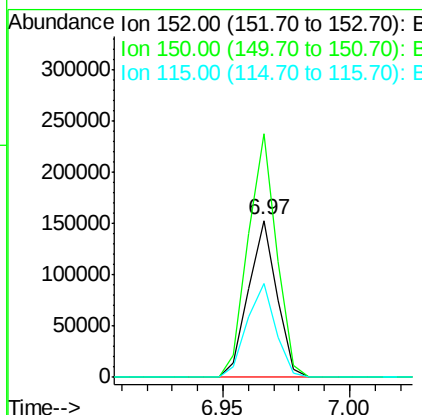
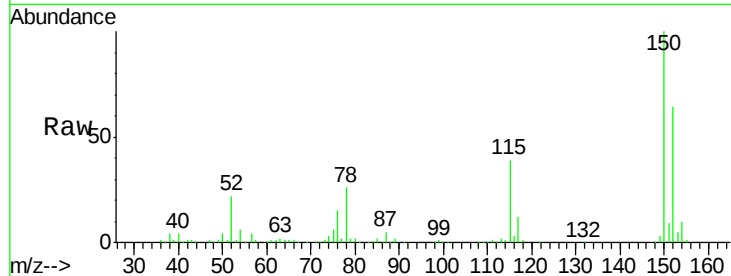




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.97 min Scan# 787  
 Delta R.T. 0.00 min  
 Lab File: BF106509.D  
 Acq: 15 Jun 2018 22:58

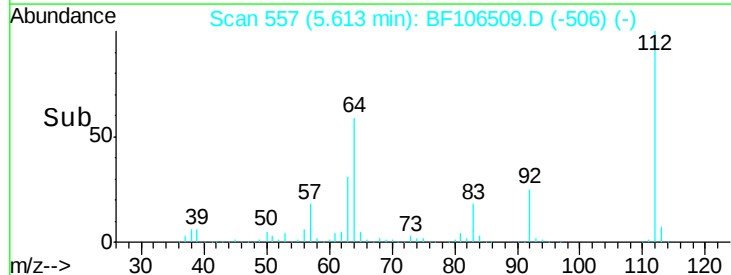
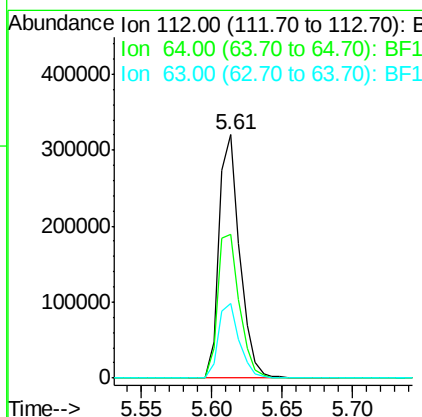
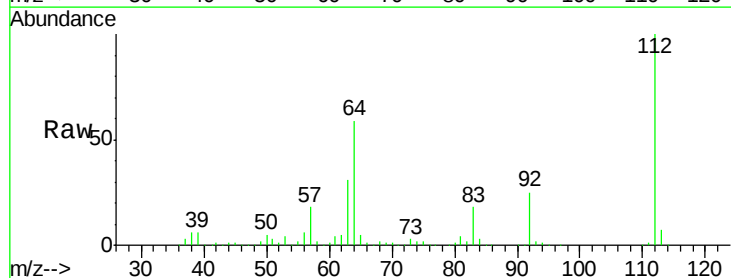
Instrument :  
 BNA\_F  
 ClientSampleId :  
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Tgt Ion:152 Resp: 118969  
 Ion Ratio Lower Upper  
 152 100  
 150 155.5 124.6 186.8  
 115 59.9 50.1 75.1



#5  
 2-Fluorophenol  
 Concen: 46.434 ng  
 RT: 5.61 min Scan# 557  
 Delta R.T. 0.00 min  
 Lab File: BF106509.D  
 Acq: 15 Jun 2018 22:58

Tgt Ion:112 Resp: 326394  
 Ion Ratio Lower Upper  
 112 100  
 64 59.1 47.9 71.9  
 63 30.5 23.7 35.5





#7

Phenol-d6

Concen: 44.944 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

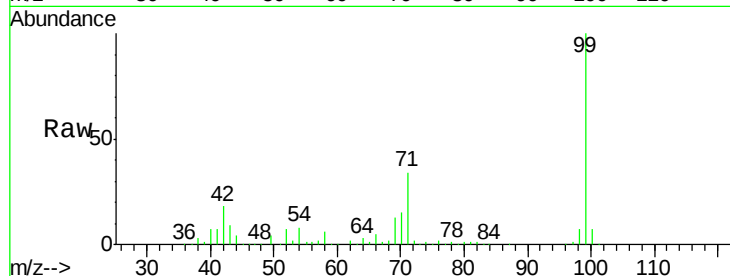
Tgt Ion: 99 Resp: 399138

Ion Ratio Lower Upper

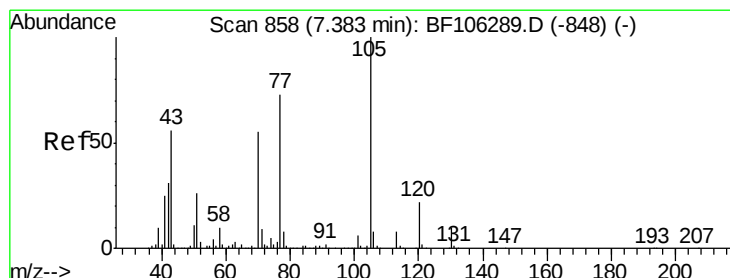
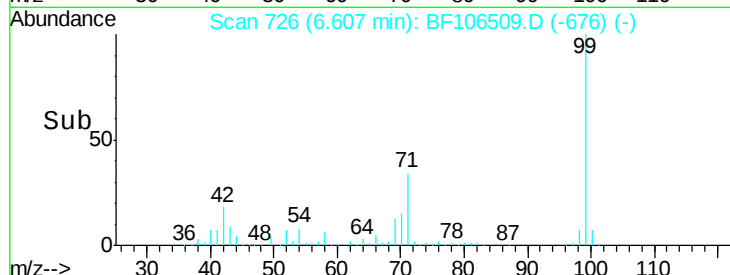
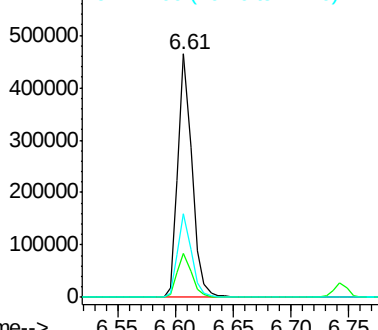
99 100

42 18.3 14.5 21.7

71 34.1 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



#19

n-Nitroso-di-n-propylamine

Concen: 4.946 ng

RT: 7.52 min Scan# 882

Delta R.T. 0.15 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Tgt Ion: 70 Resp: 32954

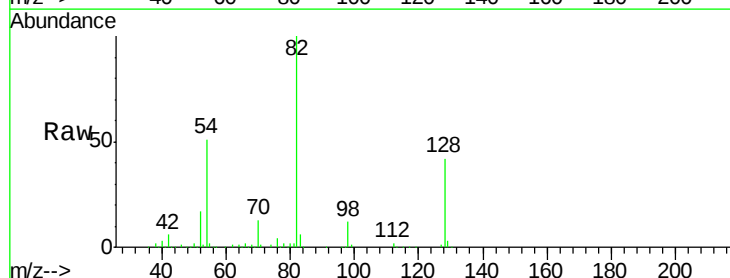
Ion Ratio Lower Upper

70 100

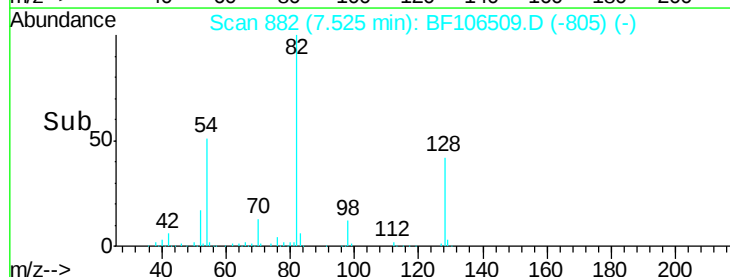
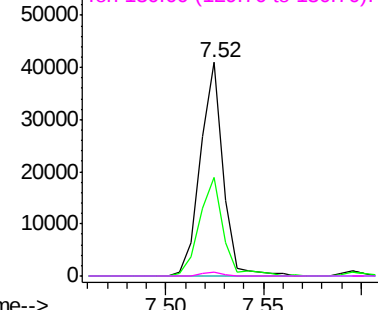
42 46.3 47.5 71.3#

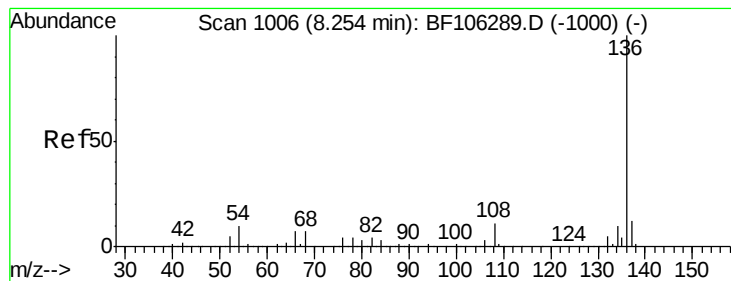
101 0.0 7.4 11.2#

130 1.9 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





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

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Tgt Ion: 136 Resp: 422410

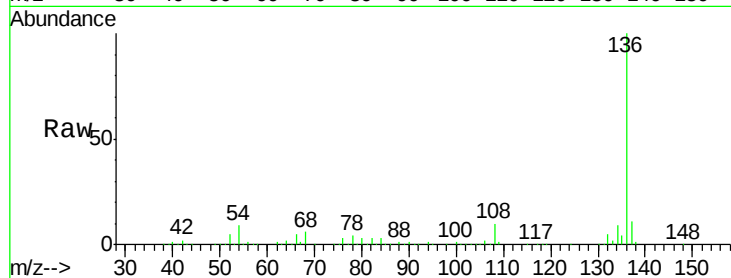
Ion Ratio Lower Upper

136 100

137 10.6 8.9 13.3

54 8.7 6.6 9.8

68 6.2 5.0 7.4

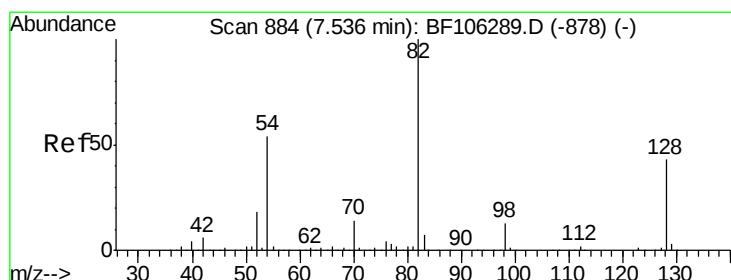
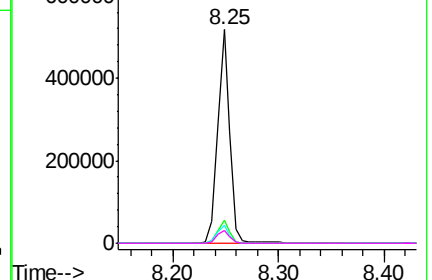
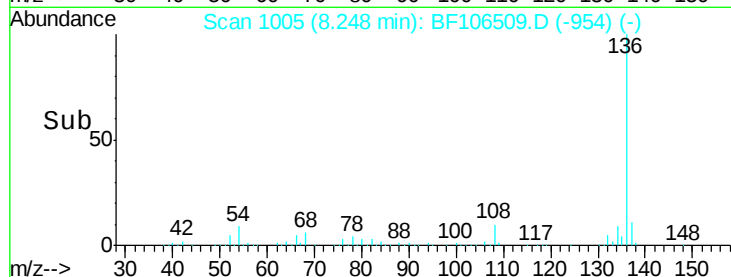


Abundance Ion 136.00 (135.70 to 136.70): E

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: 33.644 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

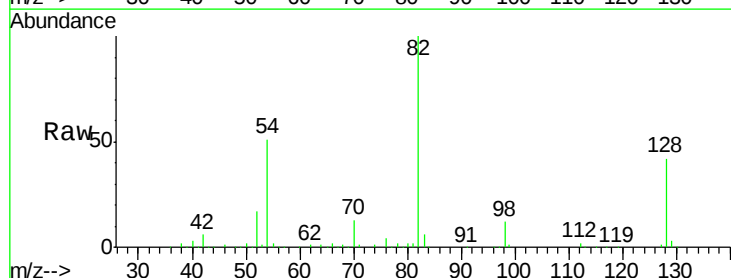
Tgt Ion: 82 Resp: 241574

Ion Ratio Lower Upper

82 100

128 41.7 36.1 54.1

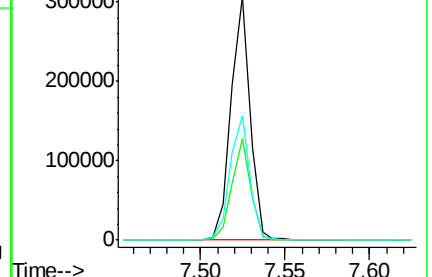
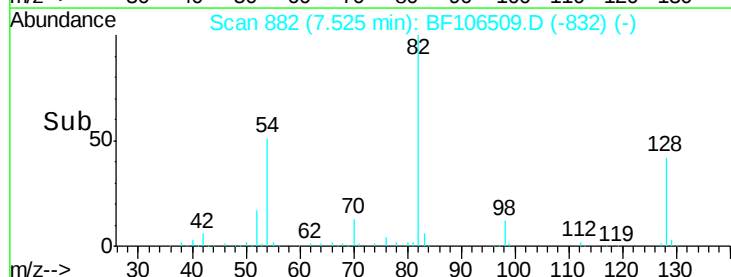
54 51.2 41.4 62.2

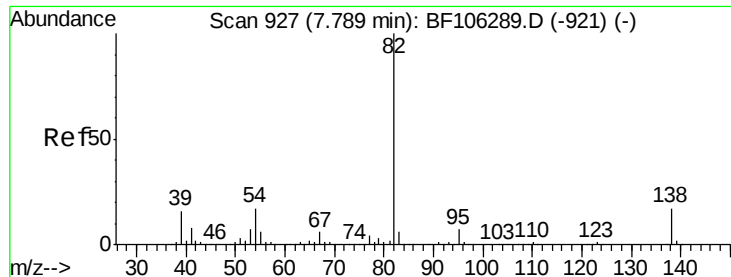


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 17.228 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.26 min

Lab File: BF106509.D

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ClientSampleId :

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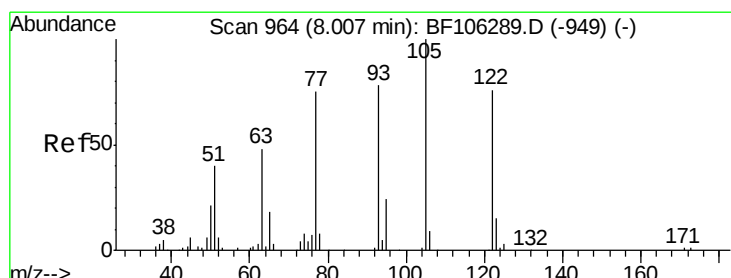
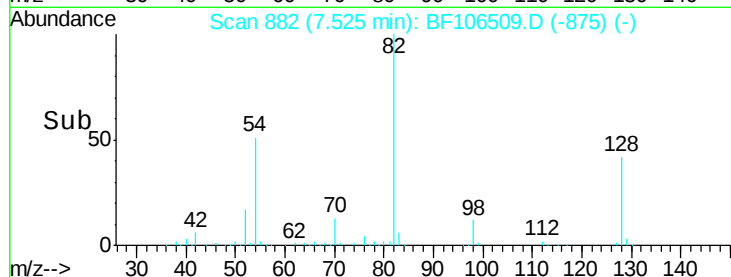
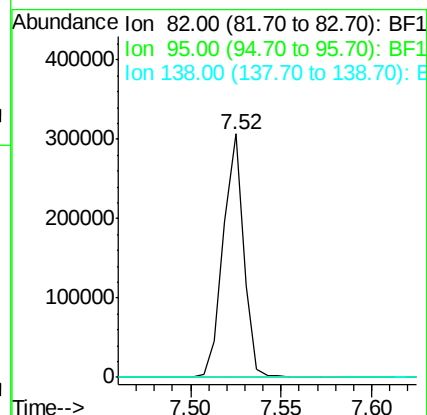
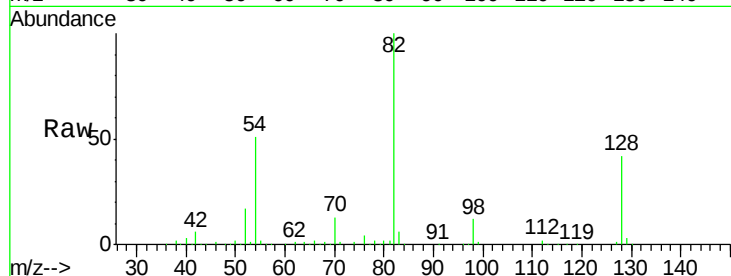
Tgt Ion: 82 Resp: 241616

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



#32

Benzoic acid

Concen: 7.312 ng

RT: 8.04 min Scan# 969

Delta R.T. 0.03 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

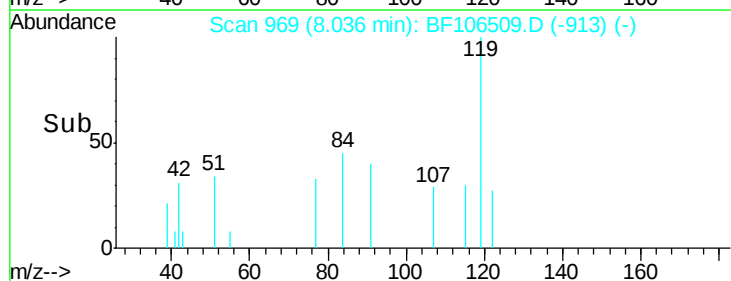
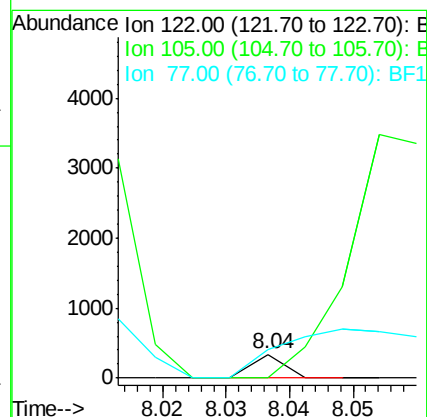
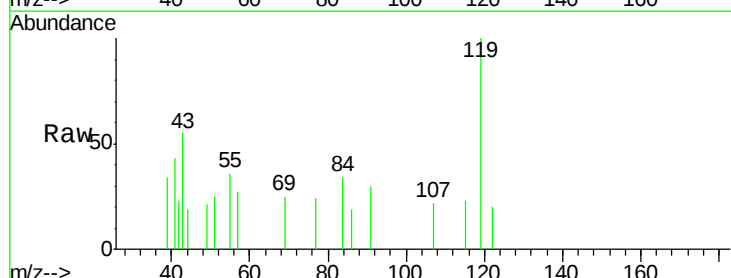
Tgt Ion: 122 Resp: 119

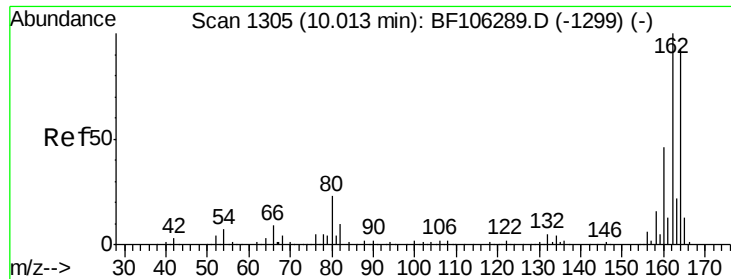
Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

77 120.8 70.7 110.7#

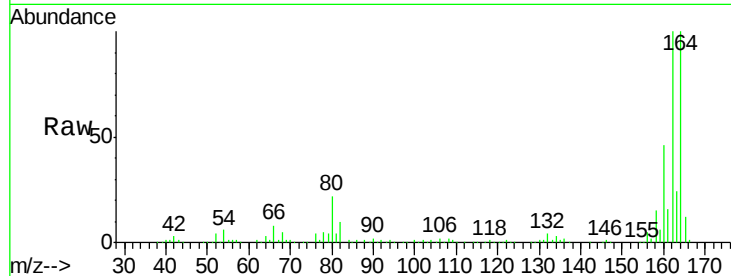




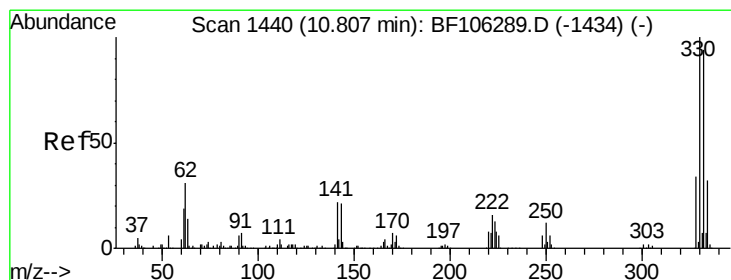
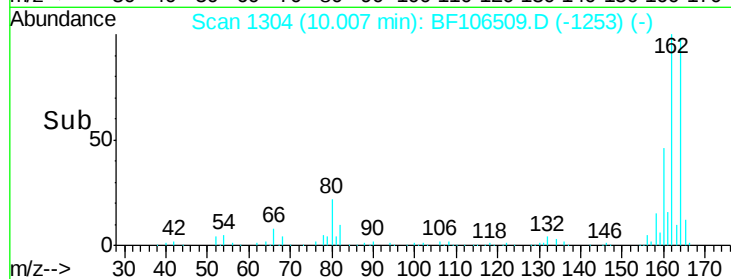
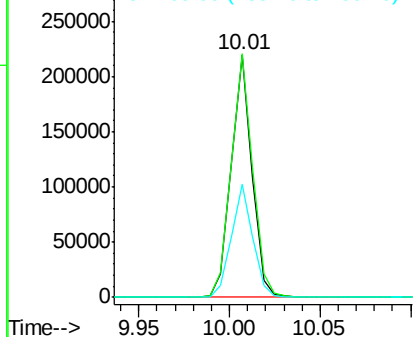
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.01 min Scan# 1304  
 Delta R.T. 0.00 min  
 Lab File: BF106509.D  
 Acq: 15 Jun 2018 22:58

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Tgt Ion:164 Resp: 176004  
 Ion Ratio Lower Upper  
 164 100  
 162 100.3 86.1 129.1  
 160 46.4 38.3 57.5

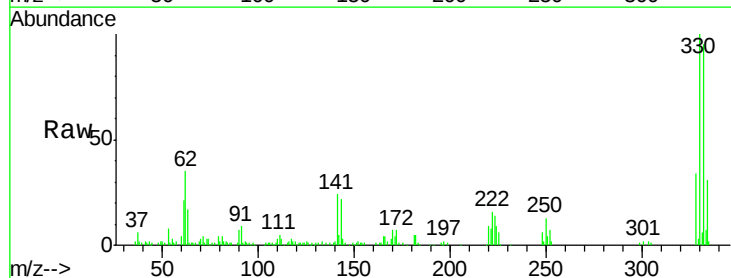


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

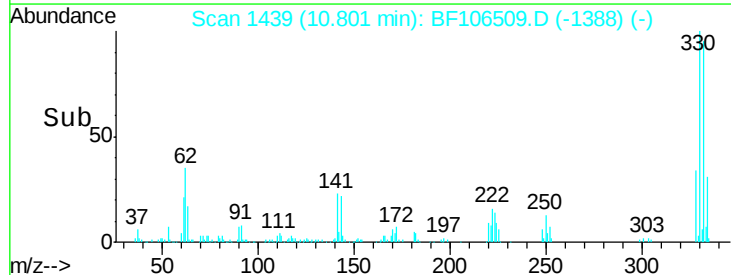
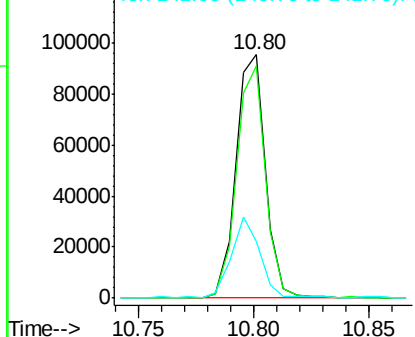


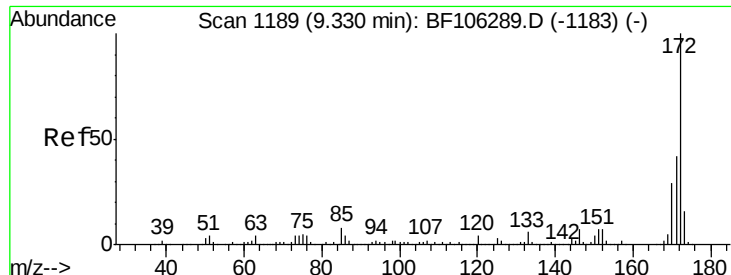
#41  
 2,4,6-Tribromophenol  
 Concen: 50.155 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. 0.00 min  
 Lab File: BF106509.D  
 Acq: 15 Jun 2018 22:58

Tgt Ion:330 Resp: 84935  
 Ion Ratio Lower Upper  
 330 100  
 332 93.7 77.0 115.6  
 141 31.1 29.9 44.9



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

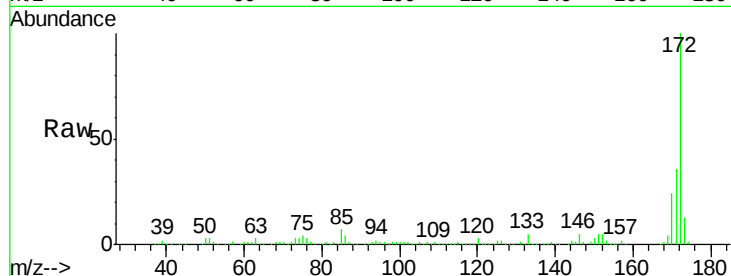




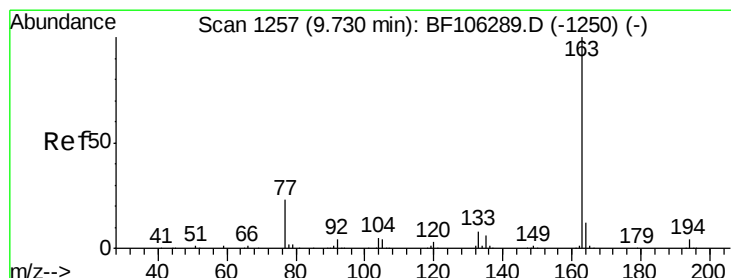
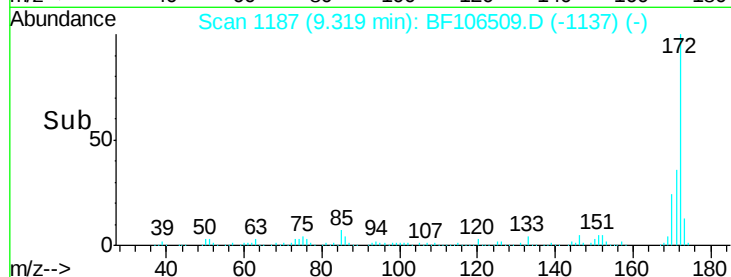
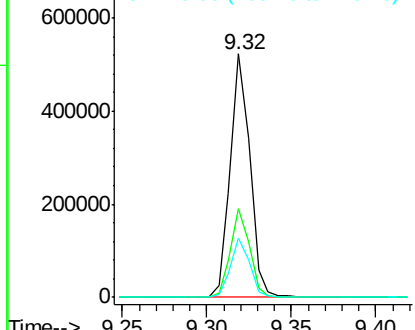
#44  
 2-Fluorobiphenyl  
 Concen: 32.899 ng  
 RT: 9.32 min Scan# 1187  
 Delta R.T. -0.01 min  
 Lab File: BF106509.D  
 Acq: 15 Jun 2018 22:58

Instrument :  
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Tgt Ion:172 Resp: 422590  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.7 44.5  
 170 24.4 19.6 29.4

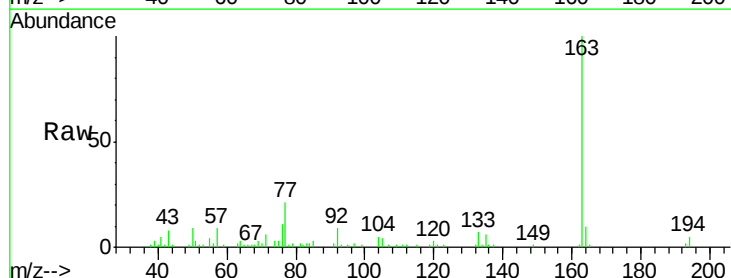


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

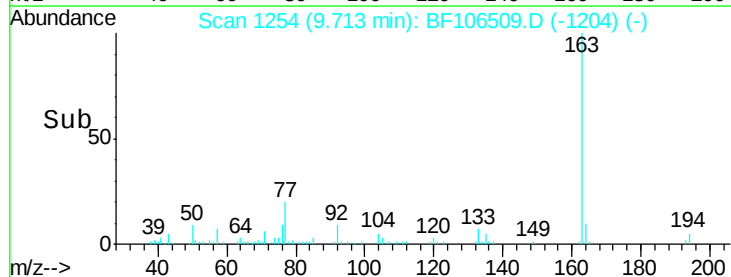
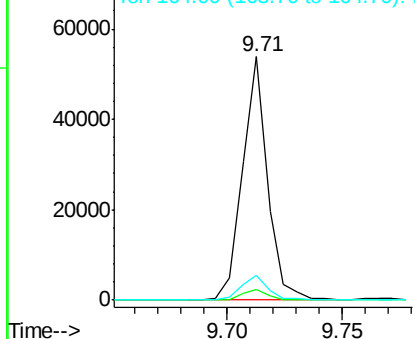


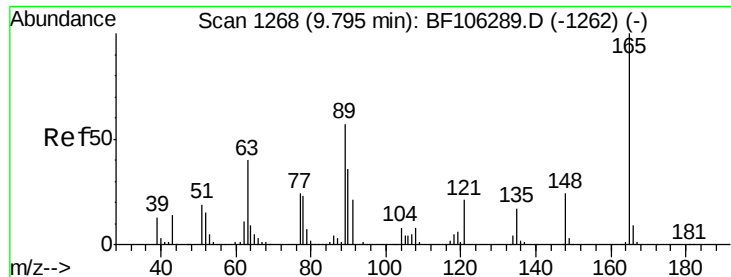
#49  
 Dimethylphthalate  
 Concen: 3.240 ng  
 RT: 9.71 min Scan# 1254  
 Delta R.T. -0.01 min  
 Lab File: BF106509.D  
 Acq: 15 Jun 2018 22:58

Tgt Ion:163 Resp: 40746  
 Ion Ratio Lower Upper  
 163 100  
 194 4.6 2.7 4.1#  
 164 10.4 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

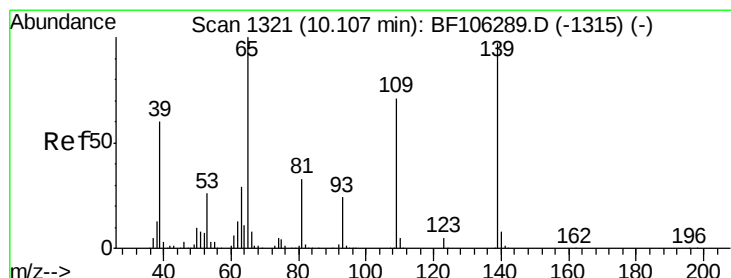
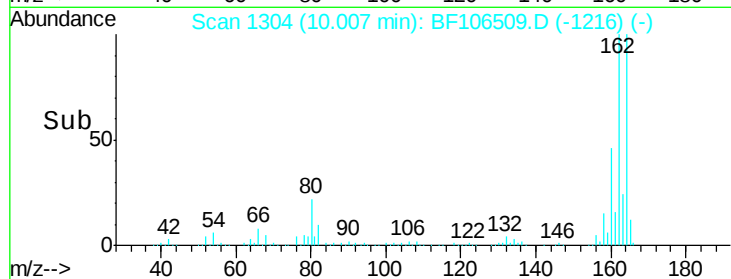
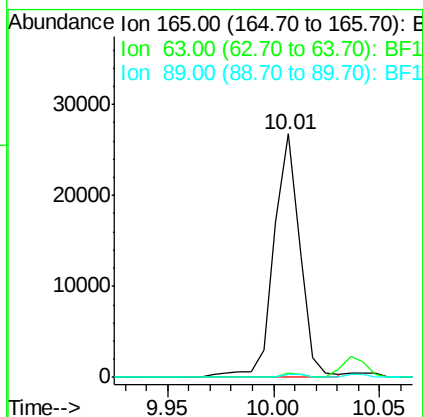
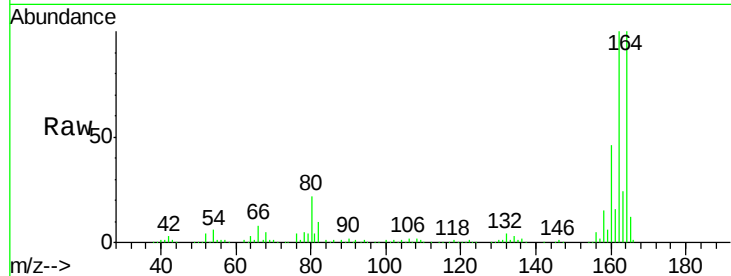




#50  
2,6-Dinitrotoluene  
Concen: 8.954 ng  
RT: 10.01 min Scan# 1304  
Delta R.T. 0.22 min  
Lab File: BF106509.D  
Acq: 15 Jun 2018 22:58

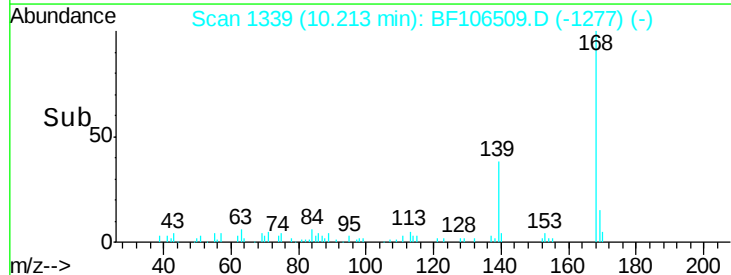
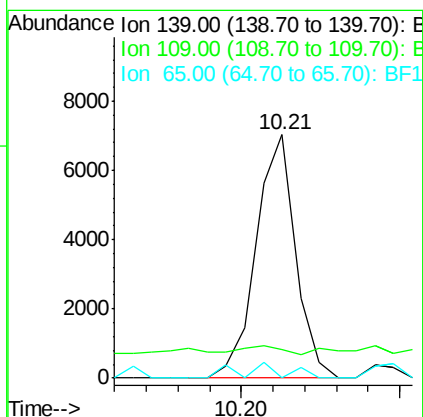
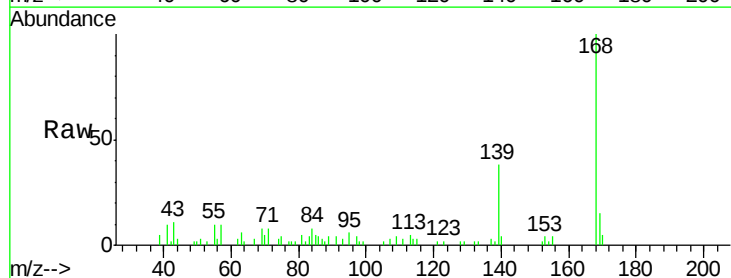
Instrument :  
BNA\_F  
ClientSampleId :  
DOCUMENTATION-8

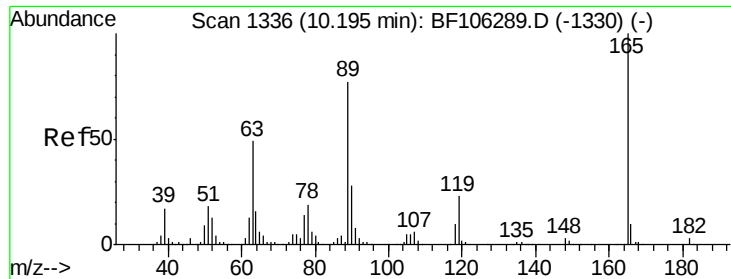
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 44.7  | 67.1# |
| 89      | 1.4   | 44.0  | 66.0# |



#55  
4-Nitrophenol  
Concen: 2.603 ng  
RT: 10.21 min Scan# 1339  
Delta R.T. 0.06 min  
Lab File: BF106509.D  
Acq: 15 Jun 2018 22:58

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 11.5  | 48.4  | 88.4#  |
| 65      | 0.0   | 72.6  | 112.6# |

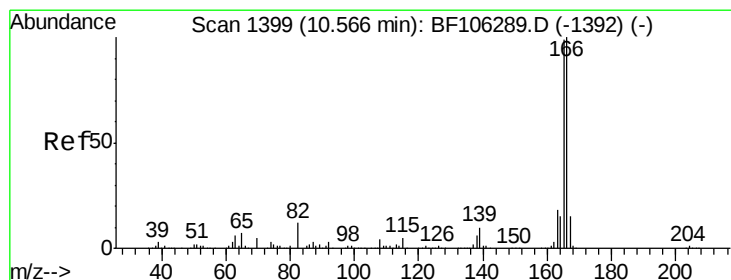
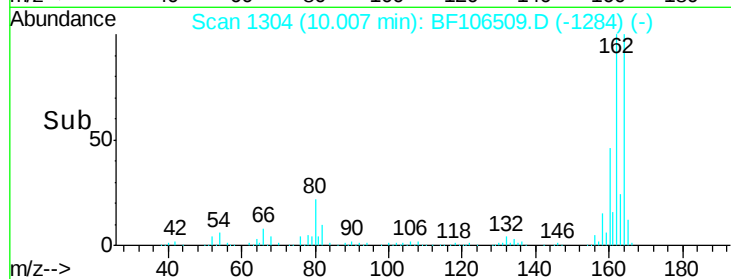
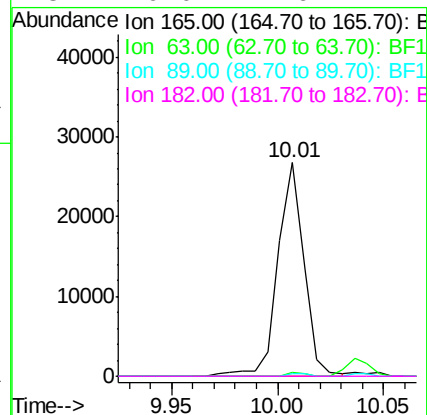
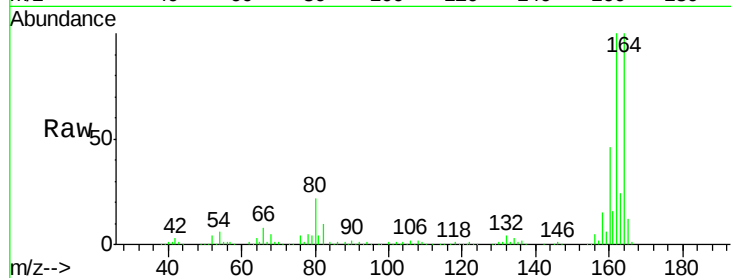




#56  
2,4-Dinitrotoluene  
Concen: 7.130 ng  
RT: 10.01 min Scan# 1304  
Delta R.T. -0.18 min  
Lab File: BF106509.D  
Acq: 15 Jun 2018 22:58

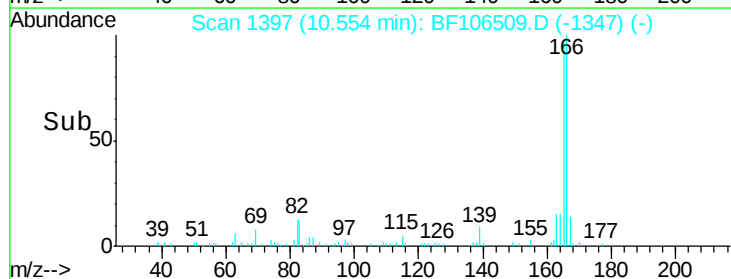
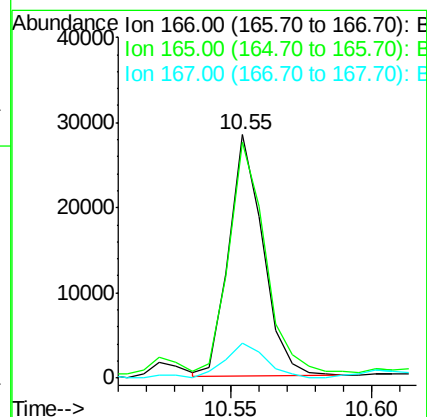
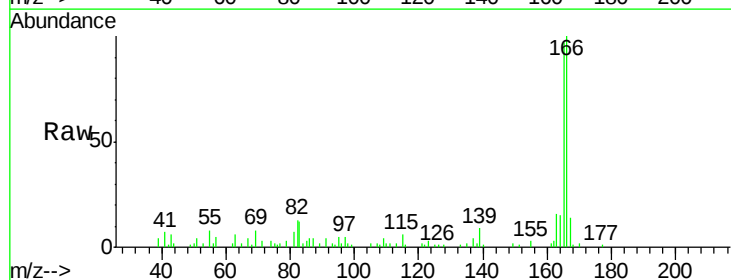
Instrument :  
BNA\_F  
ClientSampleId :  
DOCUMENTATION-8

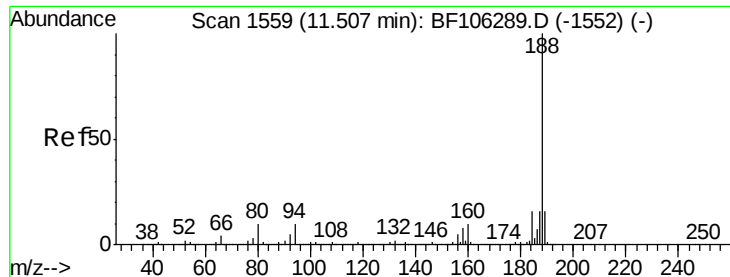
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 36.4  | 54.6# |
| 89      | 1.4   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#57  
Fluorene  
Concen: 2.055 ng  
RT: 10.55 min Scan# 1397  
Delta R.T. -0.01 min  
Lab File: BF106509.D  
Acq: 15 Jun 2018 22:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.8  | 79.8  | 119.8 |
| 167     | 14.5  | 10.6  | 16.0  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

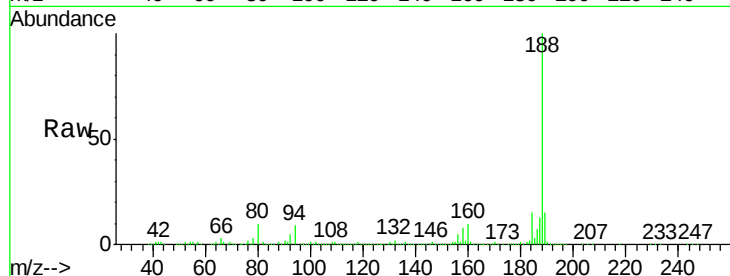
Tgt Ion:188 Resp: 342183

Ion Ratio Lower Upper

188 100

94 9.2 8.5 12.7

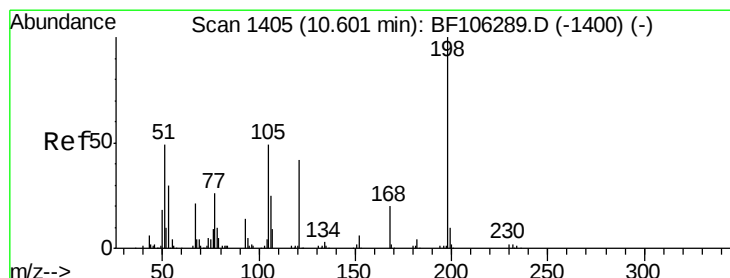
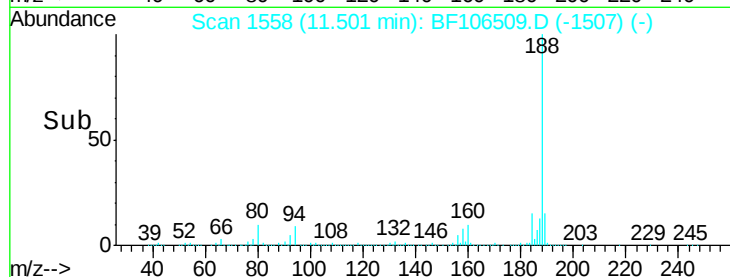
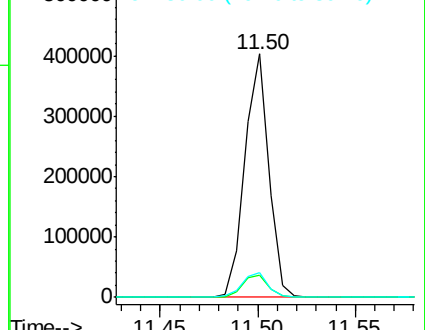
80 10.2 9.2 13.8



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: 6.349 ng

RT: 10.80 min Scan# 1438

Delta R.T. 0.19 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

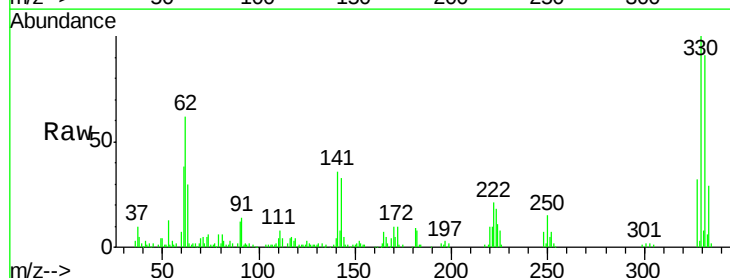
Tgt Ion:198 Resp: 116

Ion Ratio Lower Upper

198 100

51 347.3 37.7 77.7#

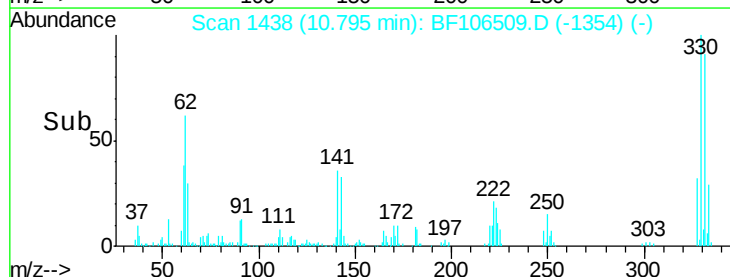
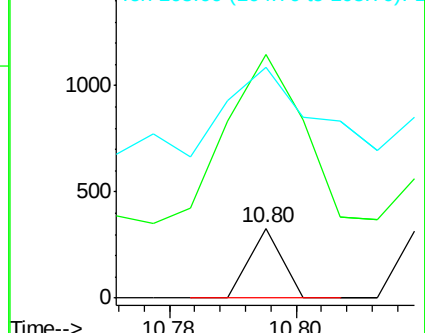
105 328.8 36.3 76.3#

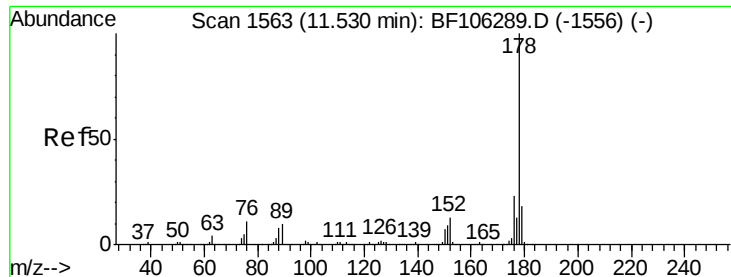


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

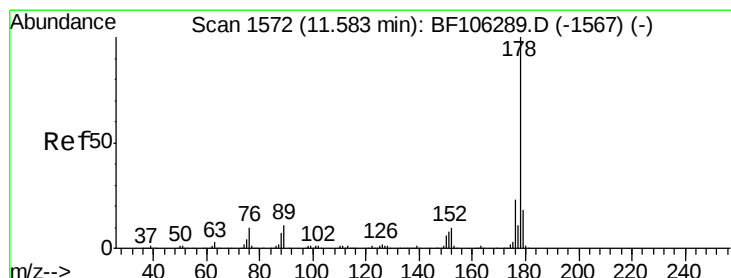
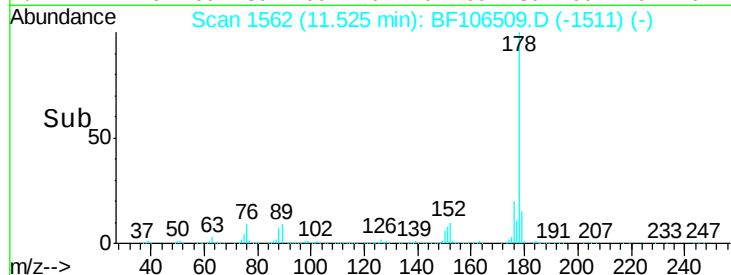
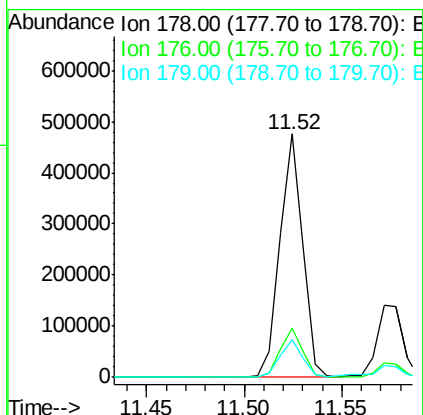
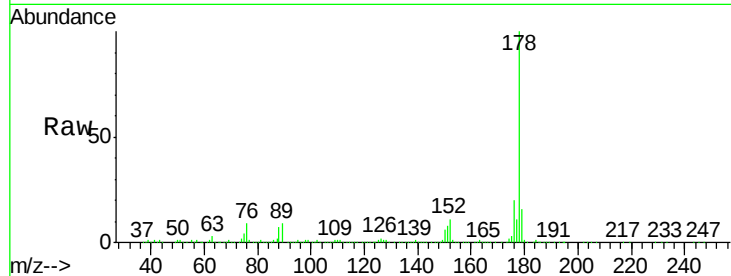




#70  
Phenanthrene  
Concen: 22.827 ng  
RT: 11.52 min Scan# 1562  
Delta R.T. 0.00 min  
Lab File: BF106509.D  
Acq: 15 Jun 2018 22:58

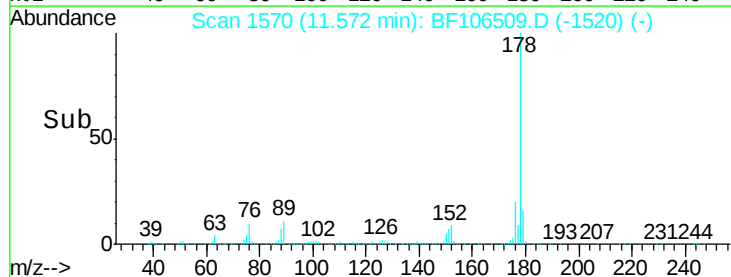
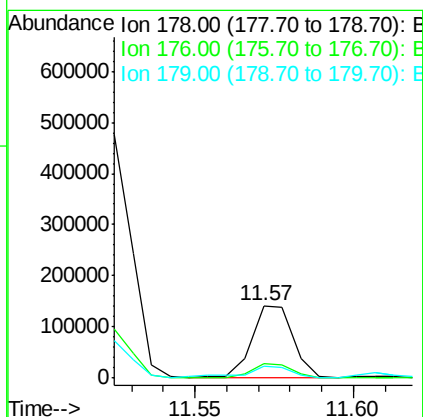
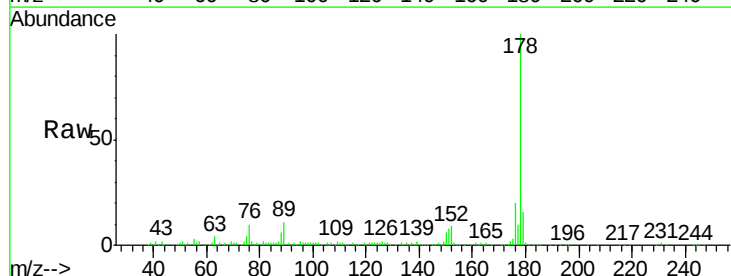
Instrument :  
BNA\_F  
ClientSampleId :  
DOCUMENTATION-8

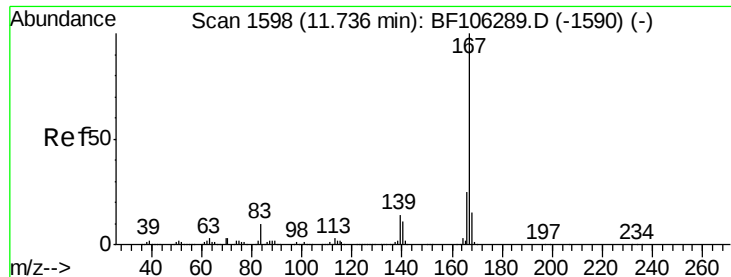
Tgt Ion:178 Resp: 382535  
Ion Ratio Lower Upper  
178 100  
176 20.3 15.8 23.8  
179 15.6 13.0 19.6



#71  
Anthracene  
Concen: 7.527 ng  
RT: 11.57 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BF106509.D  
Acq: 15 Jun 2018 22:58

Tgt Ion:178 Resp: 126369  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.4 23.2  
179 16.2 12.6 19.0





#72

Carbazole

Concen: 2.474 ng

RT: 11.73 min Scan# 1597

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

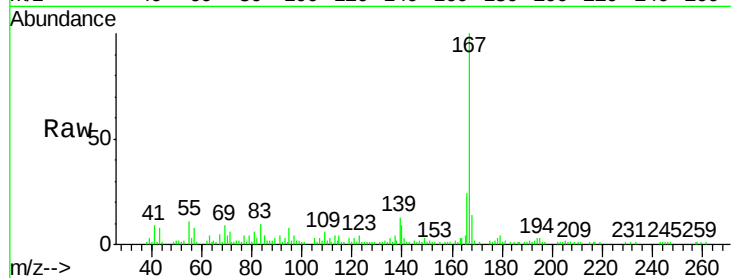
Tgt Ion:167 Resp: 38347

Ion Ratio Lower Upper

167 100

166 23.9 17.6 26.4

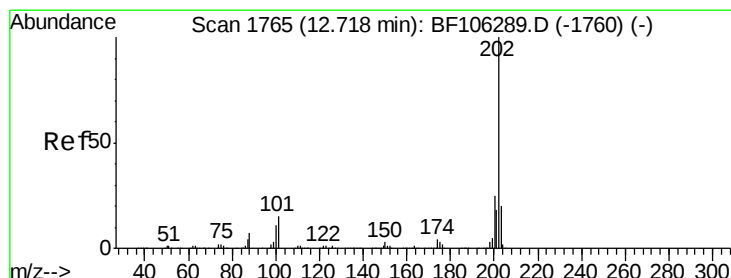
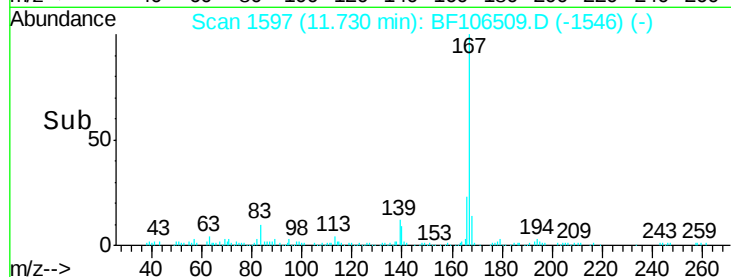
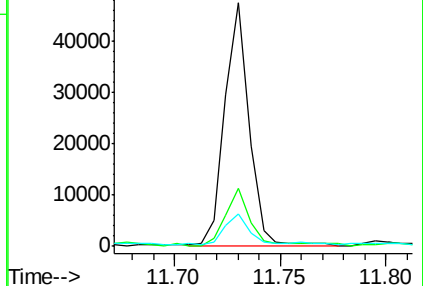
139 13.3 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 45.006 ng

RT: 12.72 min Scan# 1765

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

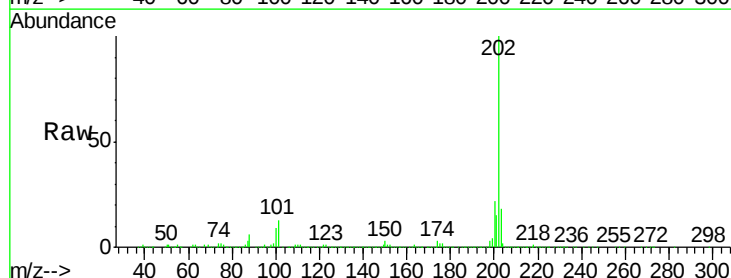
Tgt Ion:202 Resp: 804322

Ion Ratio Lower Upper

202 100

101 12.7 0.0 34.1

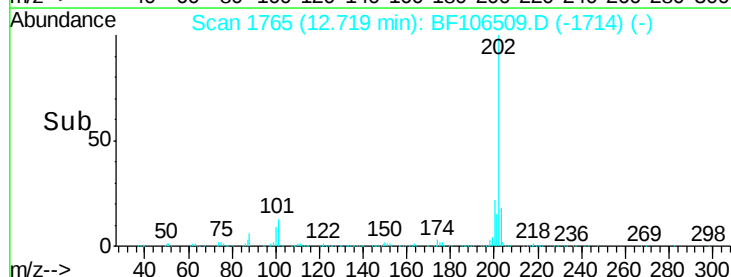
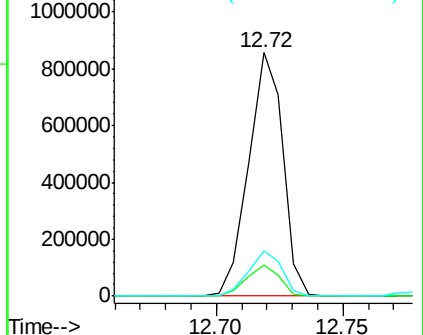
203 18.5 0.0 38.1

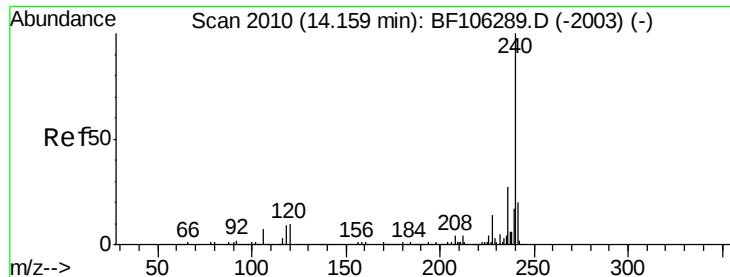


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.15 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

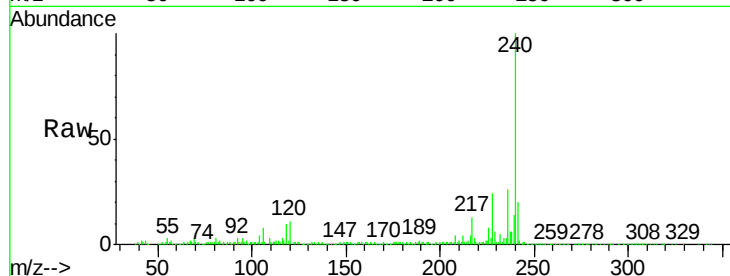
Tgt Ion:240 Resp: 318600

Ion Ratio Lower Upper

240 100

120 10.8 9.5 14.3

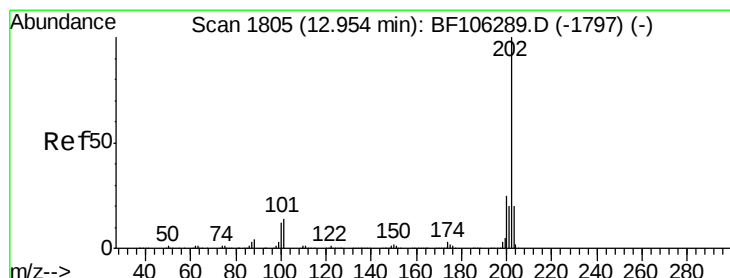
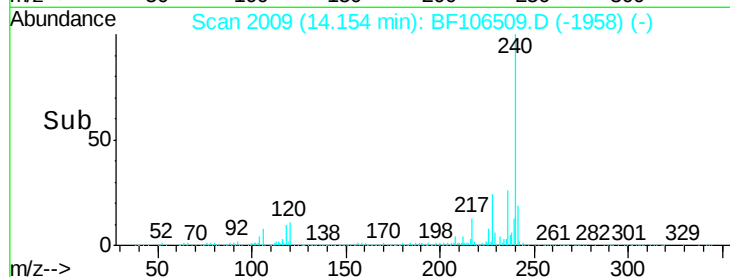
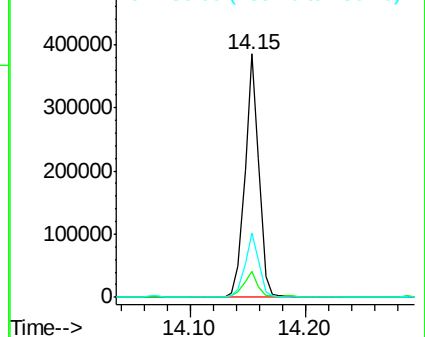
236 26.4 20.7 31.1



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

Pyrene

Concen: 37.389 ng

RT: 12.95 min Scan# 1805

Delta R.T. 0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

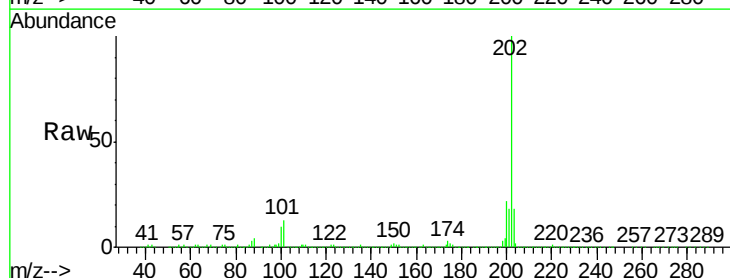
Tgt Ion:202 Resp: 745779

Ion Ratio Lower Upper

202 100

200 22.2 17.4 26.2

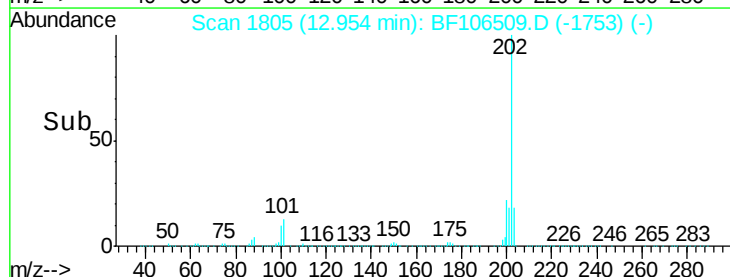
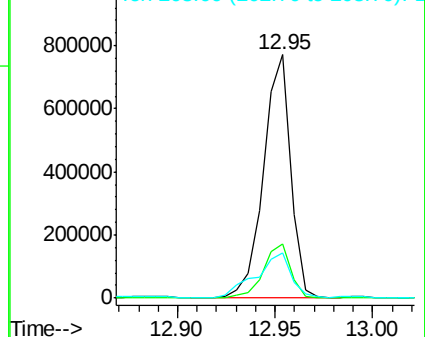
203 18.4 14.3 21.5

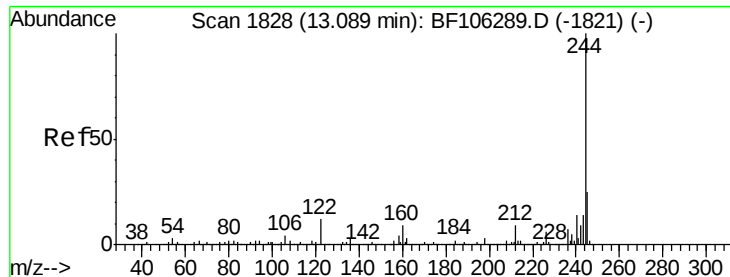


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 38.527 ng

RT: 13.08 min Scan# 1827

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

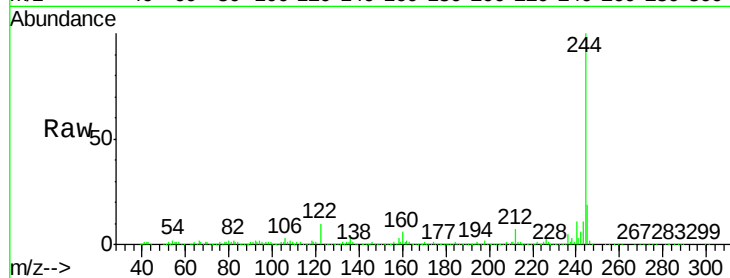
Tgt Ion:244 Resp: 494196

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

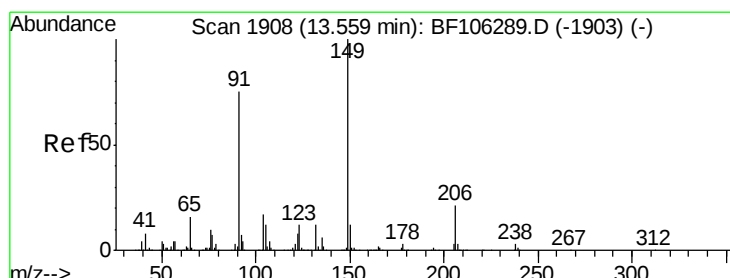
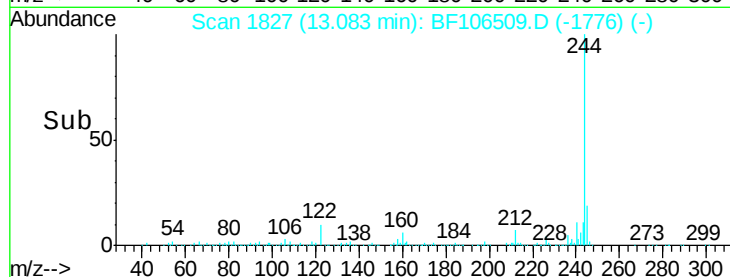
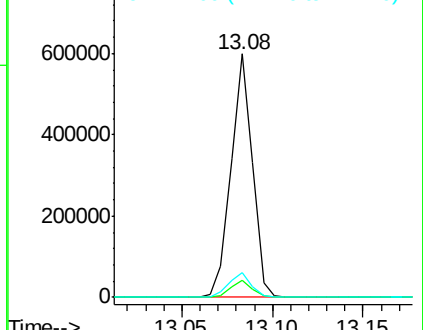
122 10.1 11.0 16.4#



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



#79

Butylbenzylphthalate

Concen: 2.133 ng

RT: 13.55 min Scan# 1907

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

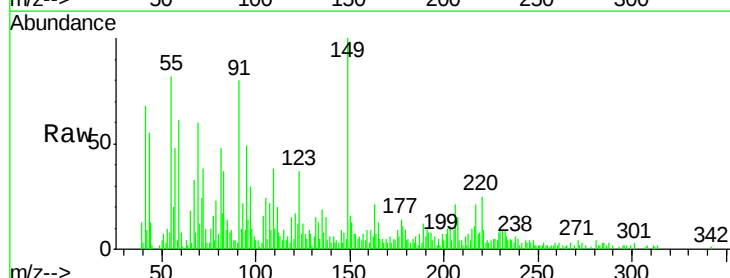
Tgt Ion:149 Resp: 15926

Ion Ratio Lower Upper

149 100

91 80.4 56.8 85.2

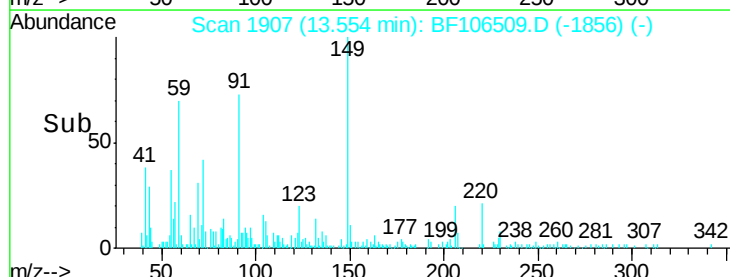
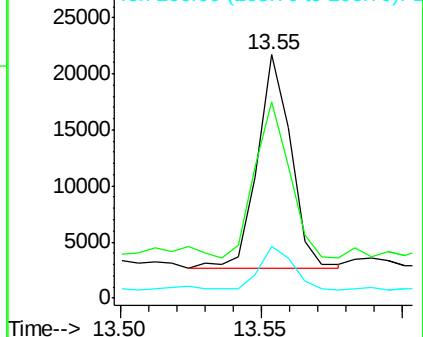
206 21.3 14.1 21.1#

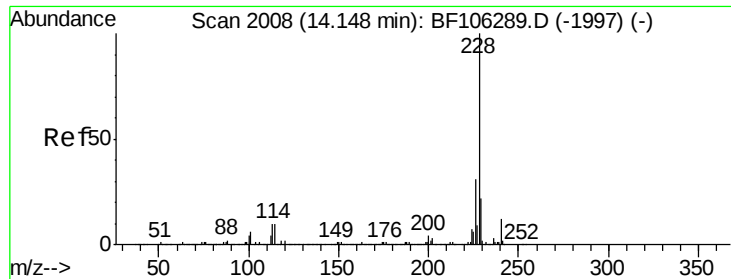


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 22.478 ng

RT: 14.14 min Scan# 2007

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

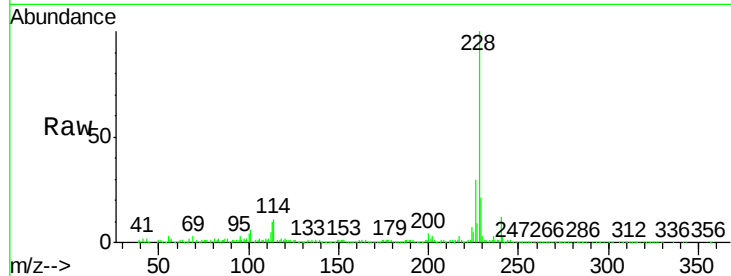
Tgt Ion:228 Resp: 426178

Ion Ratio Lower Upper

228 100

226 30.4 22.6 33.8

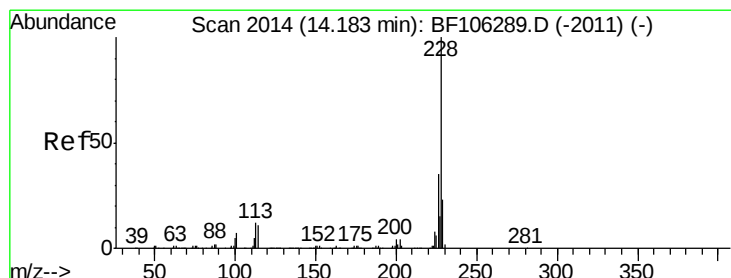
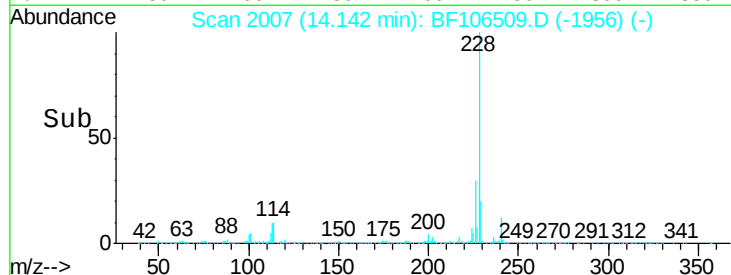
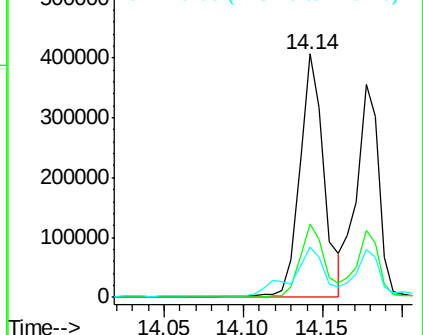
229 20.9 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 20.372 ng

RT: 14.18 min Scan# 2013

Delta R.T. 0.00 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

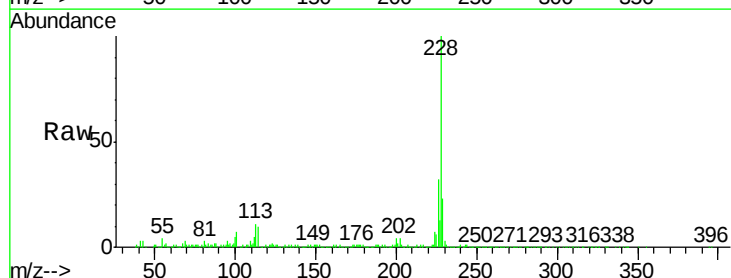
Tgt Ion:228 Resp: 352649

Ion Ratio Lower Upper

228 100

226 31.6 25.0 37.6

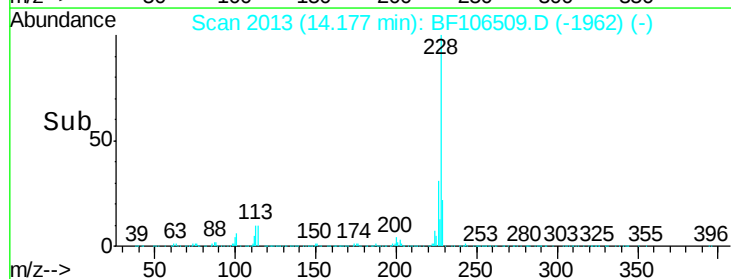
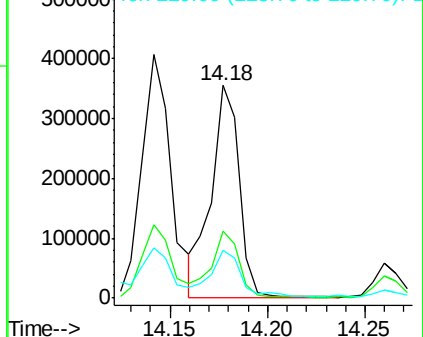
229 22.6 16.2 24.4

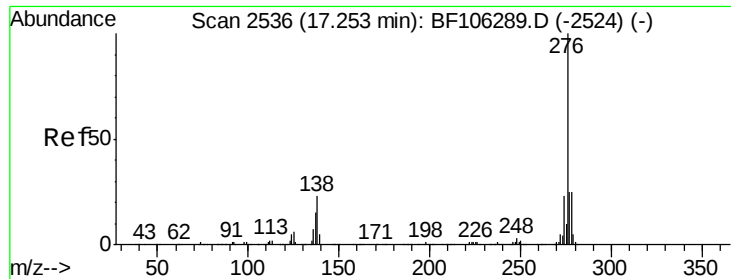


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 10.644 ng

RT: 17.26 min Scan# 2537

Delta R.T. 0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

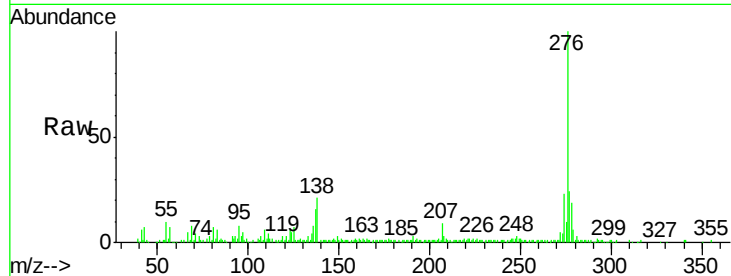
Tgt Ion:276 Resp: 147041

Ion Ratio Lower Upper

276 100

138 20.7 25.0 37.6#

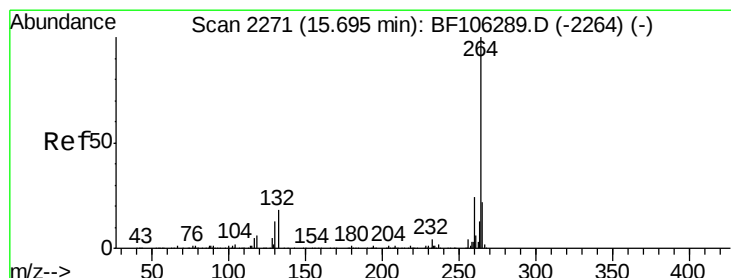
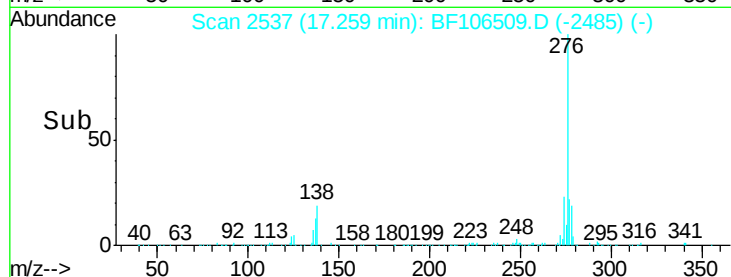
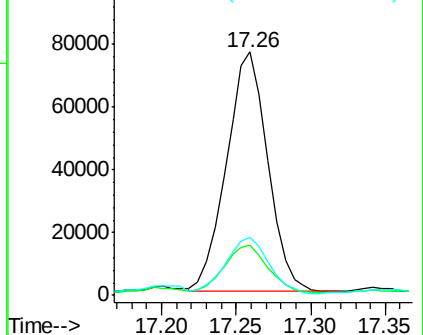
277 24.2 20.1 30.1



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

Perylene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2270

Delta R.T. 0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

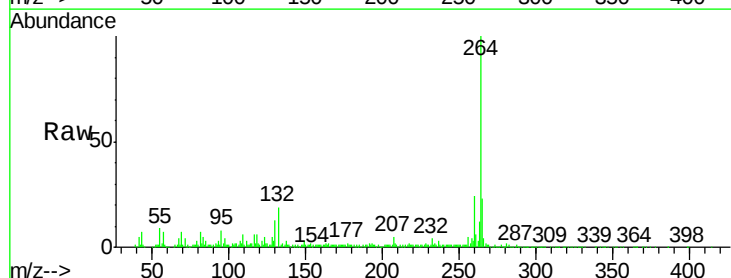
Tgt Ion:264 Resp: 223173

Ion Ratio Lower Upper

264 100

260 24.3 19.2 28.8

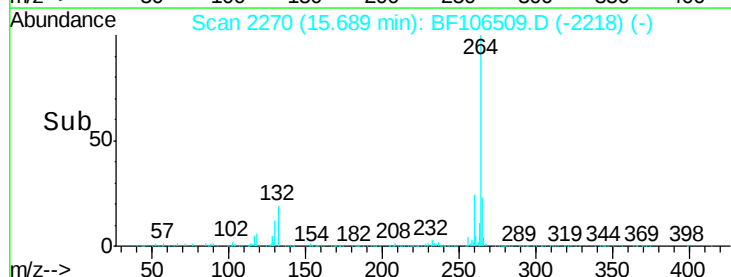
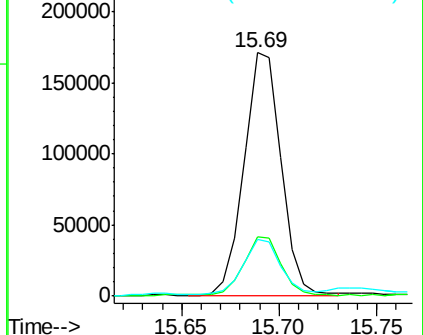
265 23.1 17.5 26.3

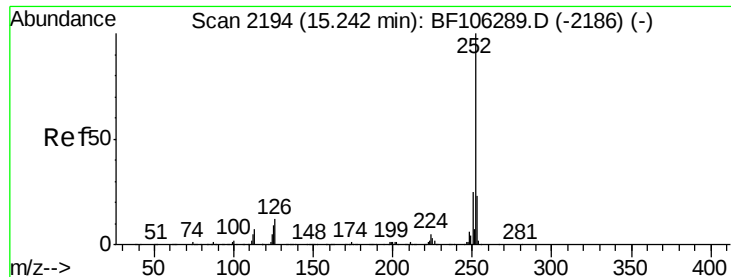


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 37.999 ng

RT: 15.24 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

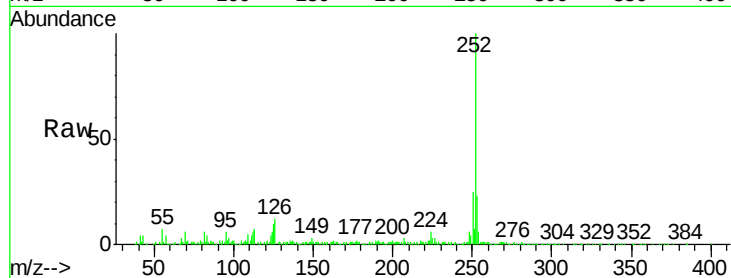
Instrument :

BNA\_F

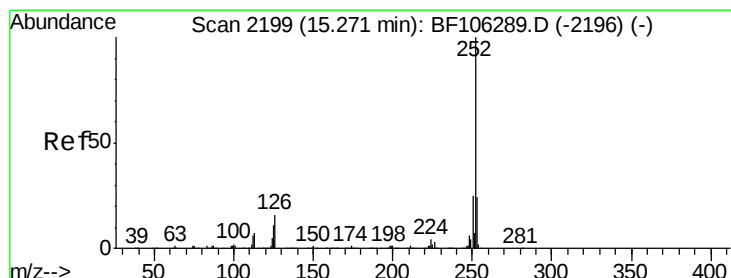
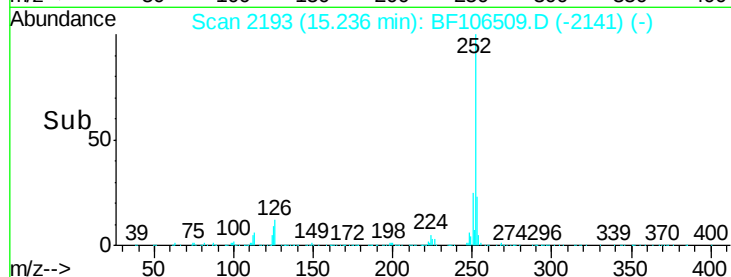
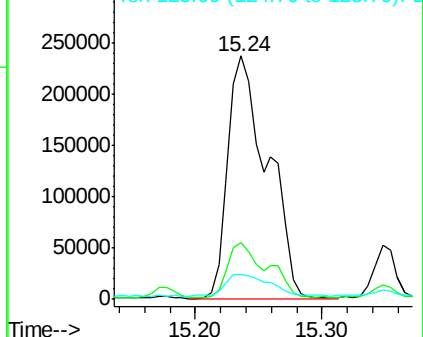
ClientSampleId :

DOCUMENTATION-8

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 512634 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.5  | 17.0  | 25.6   |
| 125      | 10.2  | 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: 38.369 ng

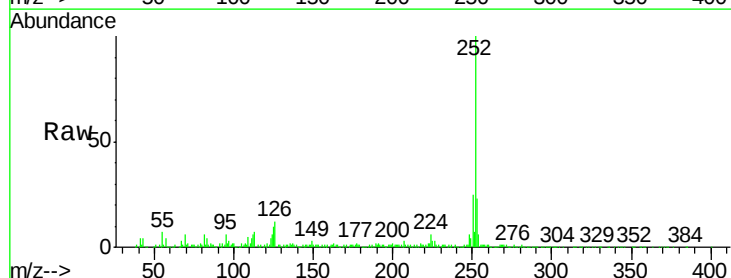
RT: 15.24 min Scan# 2193

Delta R.T. -0.02 min

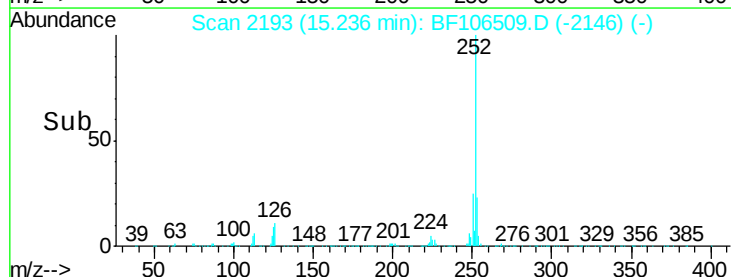
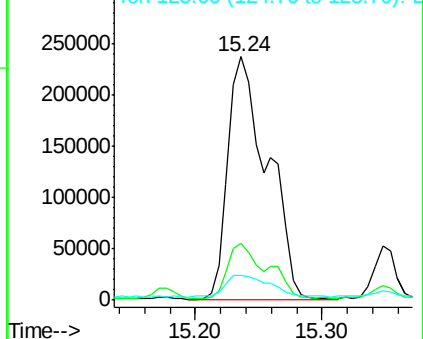
Lab File: BF106509.D

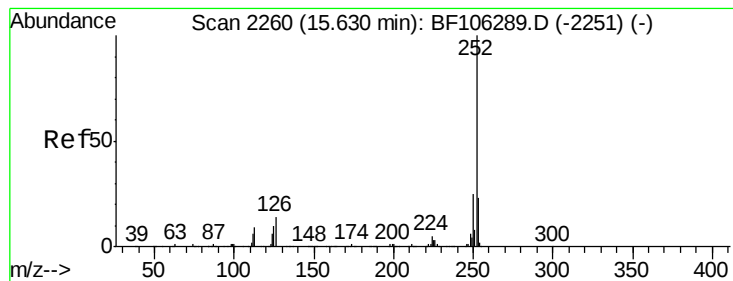
Acq: 15 Jun 2018 22:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 512634 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.5  | 17.9  | 26.9   |
| 125      | 10.2  | 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: 21.367 ng

RT: 15.62 min Scan# 2259

Delta R.T. 0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

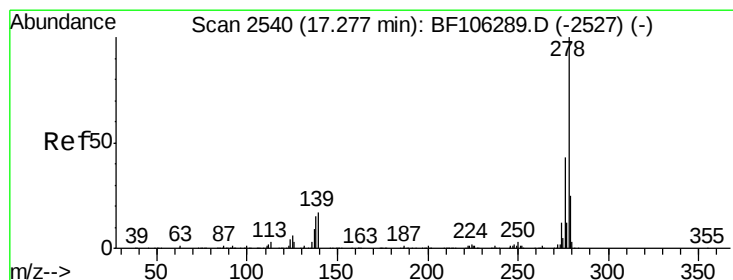
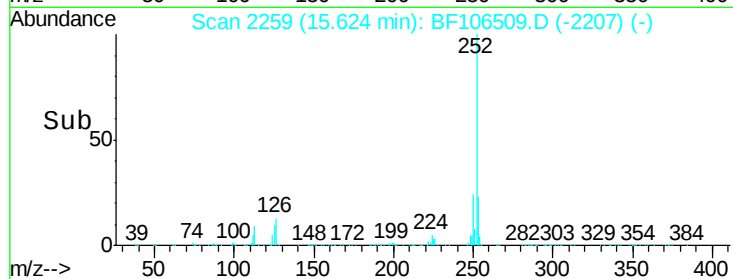
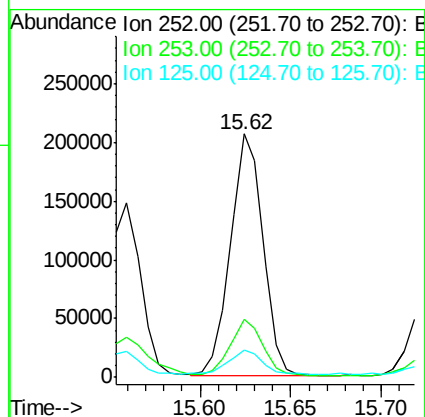
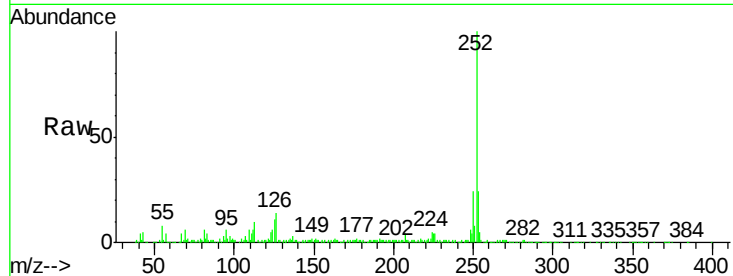
Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 259272 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.7  | 17.1  | 25.7   |
| 125      | 11.4  | 9.8   | 14.6   |



#90

Dibenzo(a,h)anthracene

Concen: 3.596 ng

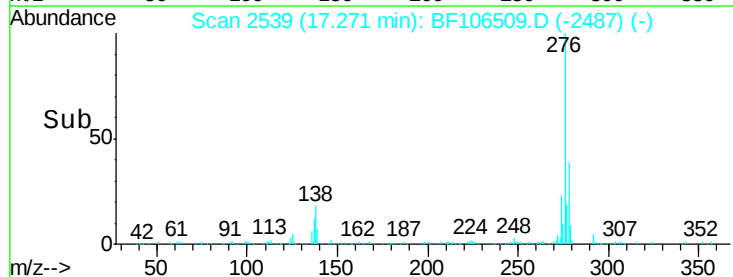
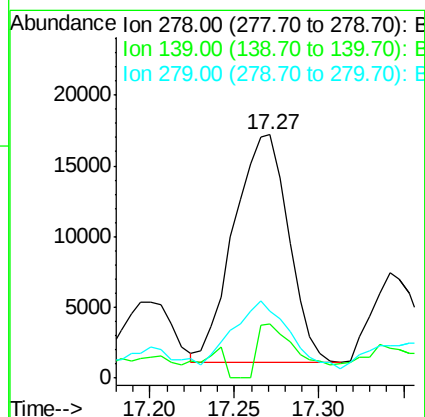
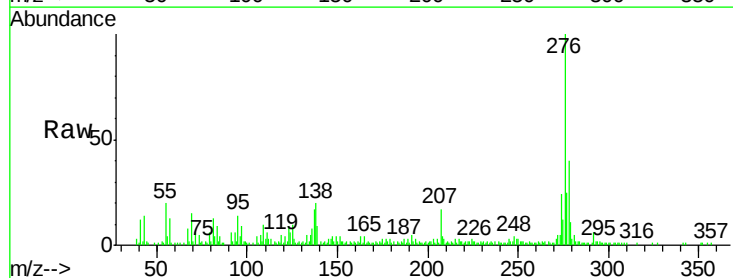
RT: 17.27 min Scan# 2539

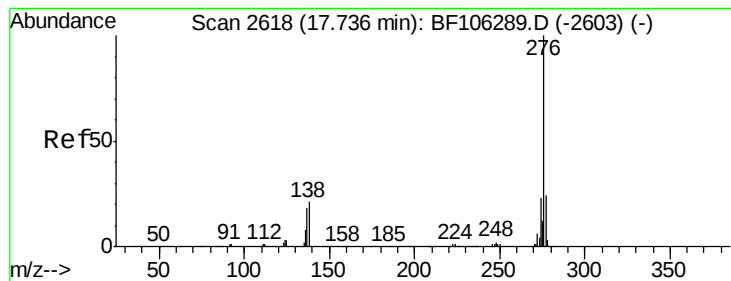
Delta R.T. 0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 36376 |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 22.4  | 15.9  | 23.9  |
| 279      | 27.6  | 19.0  | 28.4  |





#91

Benzo(g,h,i)perylene

Concen: 15.502 ng

RT: 17.74 min Scan# 2618

Delta R.T. 0.01 min

Lab File: BF106509.D

Acq: 15 Jun 2018 22:58

Instrument :

BNA\_F

ClientSampleId :

DOCUMENTATION-8

Tgt Ion: 276 Resp: 152402

Ion Ratio Lower Upper

276 100

277 24.5 17.9 26.9

138 20.7 21.8 32.8#

