

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030218\  
 Data File : BG032967.D  
 Acq On : 3 Mar 2018 5:28  
 Operator : SJ/JU  
 Sample : J1778-02  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-4

Quant Time: Mar 05 02:12:20 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 01 17:38:52 2018  
 Response via : Initial Calibration

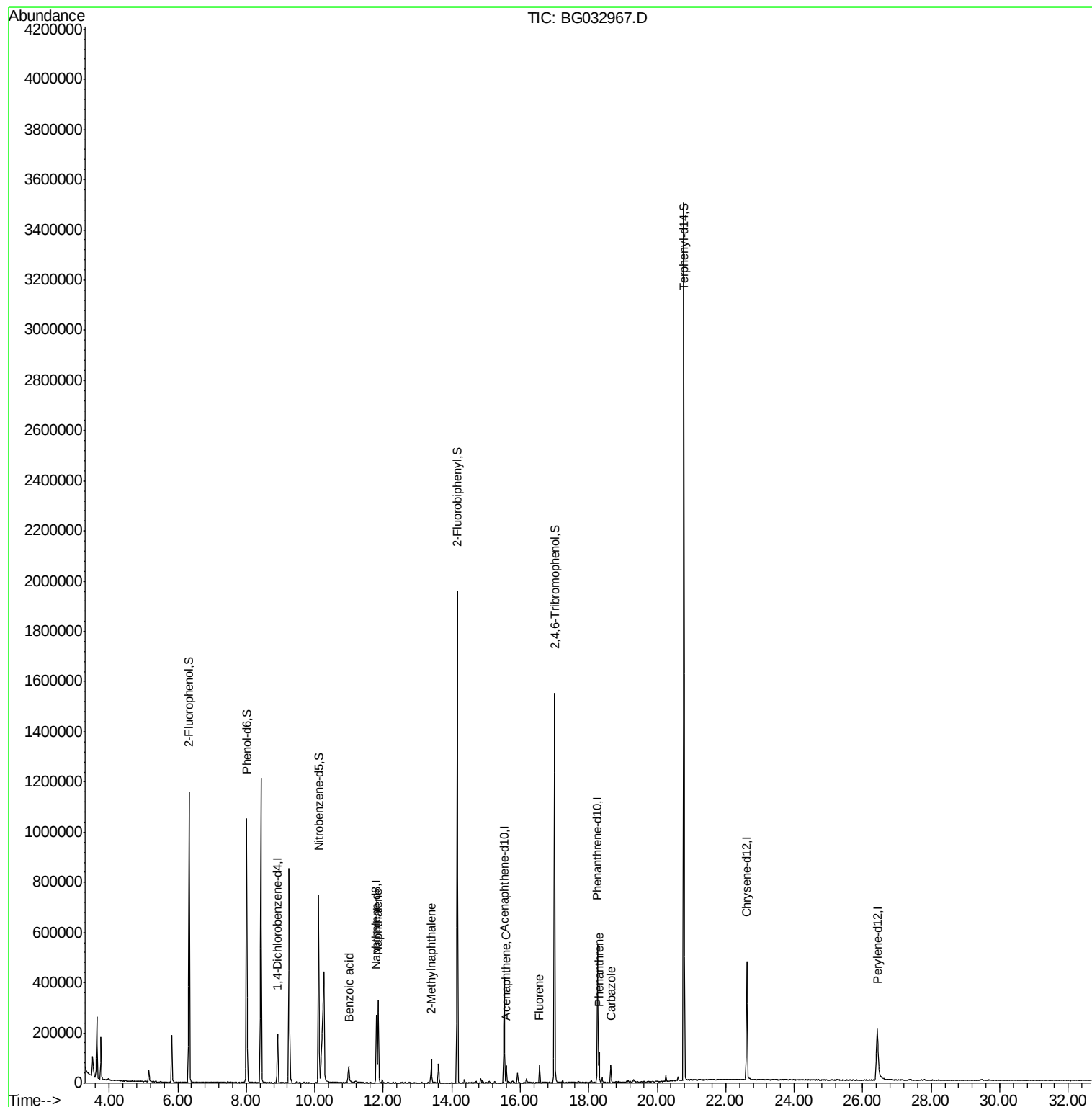
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.92  | 152  | 57634    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8          | 11.80 | 136  | 246013   | 20.00  | ng    | 0.00      |
| 38) Acenaphthene-d10        | 15.53 | 164  | 141966   | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10        | 18.26 | 188  | 338033   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12            | 22.61 | 240  | 311501   | 20.00  | ng    | 0.00      |
| 86) Perylene-d12            | 26.43 | 264  | 298842   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 6.33  | 112  | 534491   | 148.37 | ng    | 0.00      |
| 7) Phenol-d6                | 8.01  | 99   | 642961   | 128.05 | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 10.11 | 82   | 473734   | 127.96 | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol    | 17.00 | 330  | 260112   | 174.25 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl        | 14.16 | 172  | 978727   | 99.43  | ng    | 0.00      |
| 78) Terphenyl-d14           | 20.78 | 244  | 1541082  | 111.15 | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 31) Naphthalene             | 11.85 | 128  | 285335   | 22.196 | ng    | Qvalue 97 |
| 32) Benzoic acid            | 10.99 | 122  | 28578    | 19.147 | ng    | # 78      |
| 37) 2-Methylnaphthalene     | 13.40 | 142  | 42480    | 4.568  | ng    | 94        |
| 51) Acenaphthene            | 15.59 | 154  | 25657    | 2.715  | ng    | 97        |
| 57) Fluorene                | 16.56 | 166  | 32195    | 2.899  | ng    | 97        |
| 70) Phenanthrene            | 18.30 | 178  | 79181    | 4.199  | ng    | 99        |
| 72) Carbazole               | 18.64 | 167  | 46863    | 2.511  | ng    | 98        |

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

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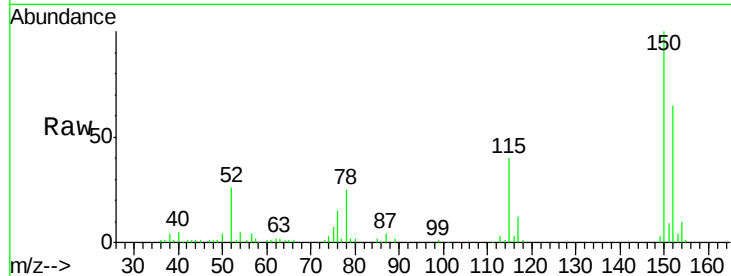


#1

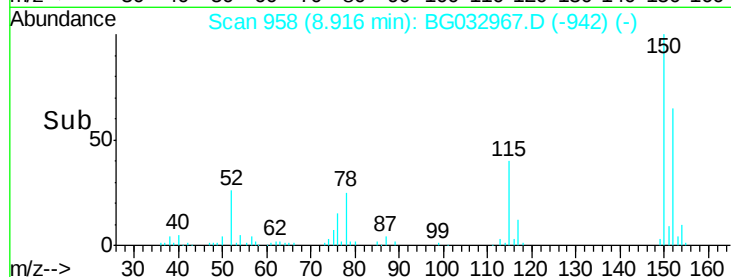
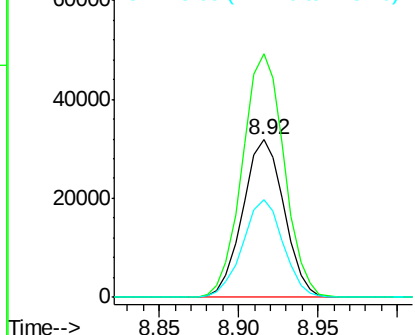
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.92 min Scan# 958  
Delta R.T. -0.01 min  
Lab File: BG032967.D  
Acq: 3 Mar 2018 5:28

Instrument :  
BNA\_G  
ClientSampleId :  
TP-4

Tot Ion:152 Resp: 57634  
Ion Ratio Lower Upper  
152 100  
150 154.4 126.6 189.8  
115 62.1 53.0 79.4



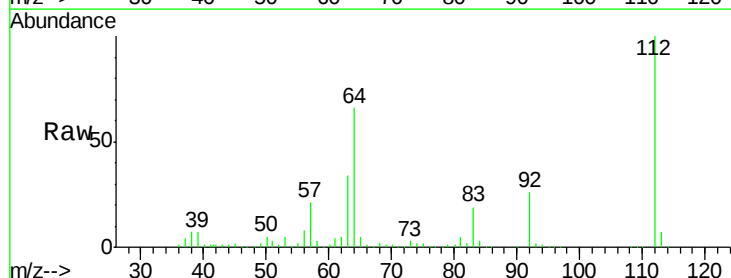
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



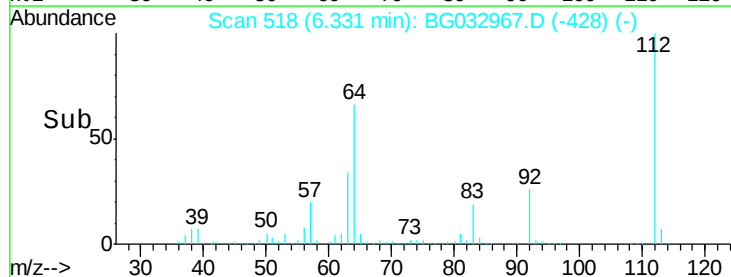
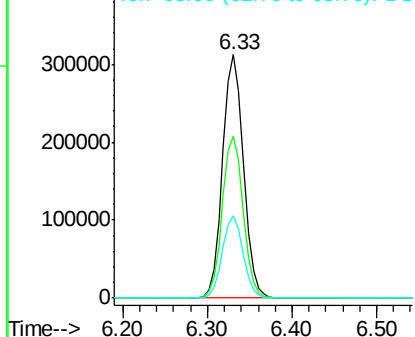
#5

2-Fluorophenol  
Concen: 148.369 ng  
RT: 6.33 min Scan# 518  
Delta R.T. 0.00 min  
Lab File: BG032967.D  
Acq: 3 Mar 2018 5:28

Tgt Ion:112 Resp: 534491  
Ion Ratio Lower Upper  
112 100  
64 66.4 56.3 84.5  
63 33.8 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 128.046 ng

RT: 8.01 min Scan# 804

Delta R.T. -0.01 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

Instrument :

BNA\_G

ClientSampleId :

TP-4

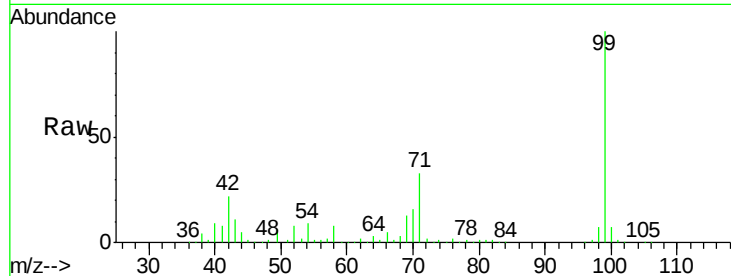
Tot Ion: 99 Resp: 642961

Ion Ratio Lower Upper

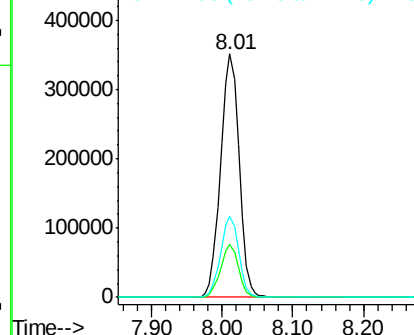
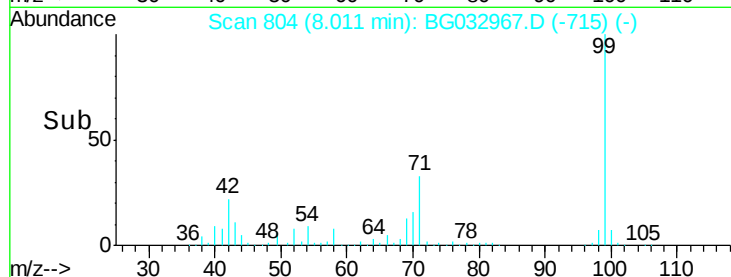
99 100

42 21.6 14.1 21.1#

71 33.4 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.80 min Scan# 1449

Delta R.T. -0.01 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

Tgt Ion: 136 Resp: 246013

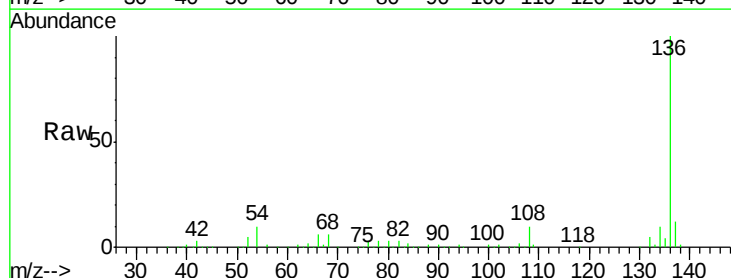
Ion Ratio Lower Upper

136 100

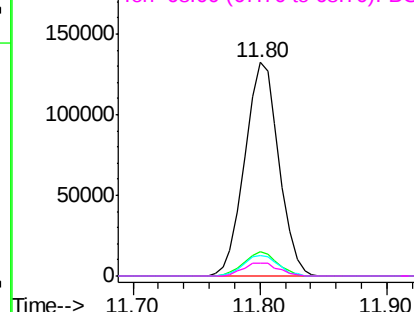
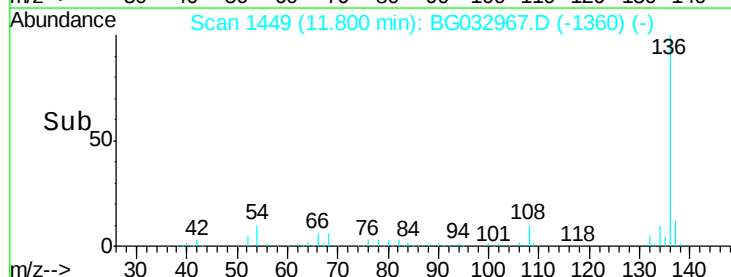
137 11.7 9.2 13.8

54 9.7 10.3 15.5#

68 5.8 4.5 6.7



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

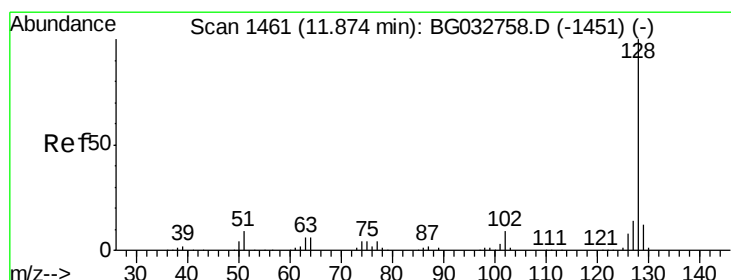
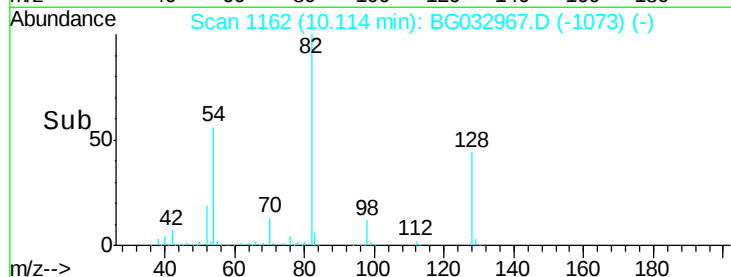
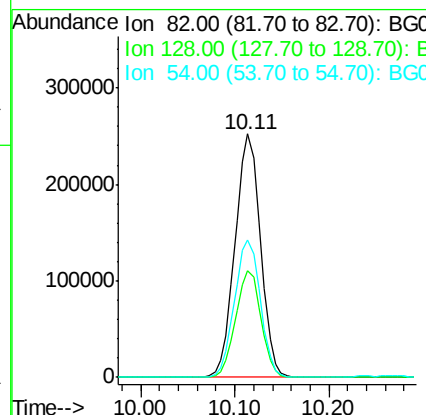
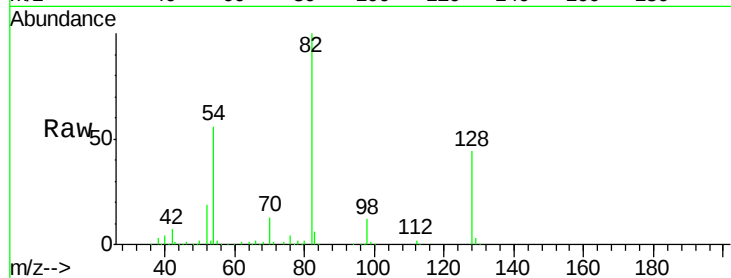




#23  
 Nitrobenzene-d5  
 Concen: 127.959 ng  
 RT: 10.11 min Scan# 1162  
 Delta R.T. -0.01 min  
 Lab File: BG032967.D  
 Acq: 3 Mar 2018 5:28

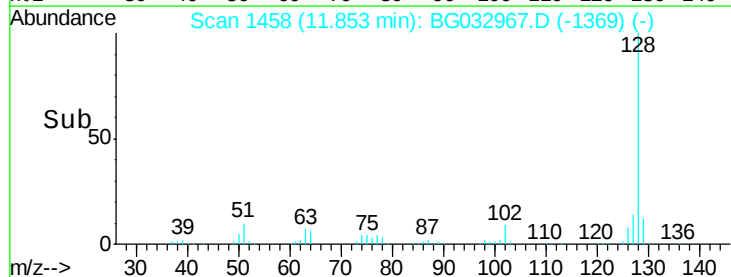
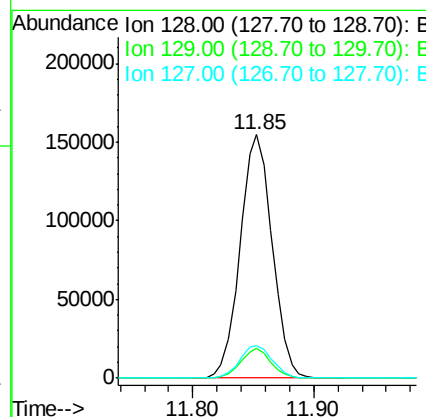
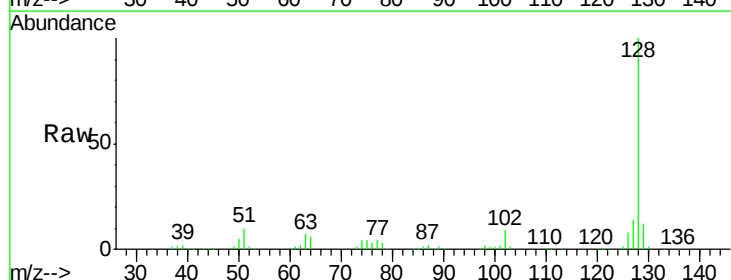
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-4

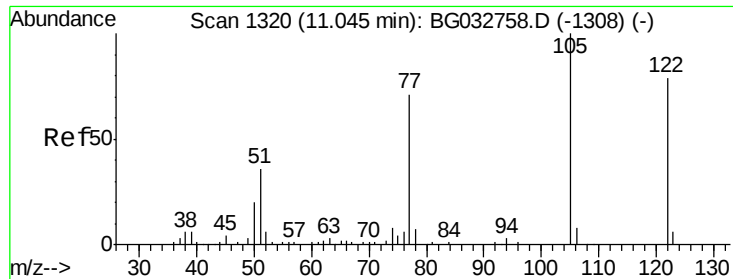
Tot Ion: 82 Resp: 473734  
 Ion Ratio Lower Upper  
 82 100  
 128 43.7 29.7 44.5  
 54 56.4 43.1 64.7



#31  
 Naphthalene  
 Concen: 22.196 ng  
 RT: 11.85 min Scan# 1458  
 Delta R.T. -0.01 min  
 Lab File: BG032967.D  
 Acq: 3 Mar 2018 5:28

Tgt Ion: 128 Resp: 285335  
 Ion Ratio Lower Upper  
 128 100  
 129 12.1 8.6 12.8  
 127 13.6 11.6 17.4

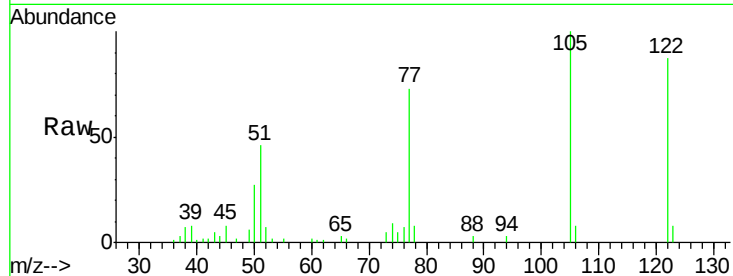




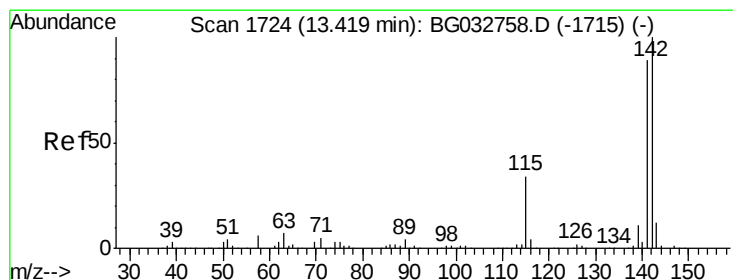
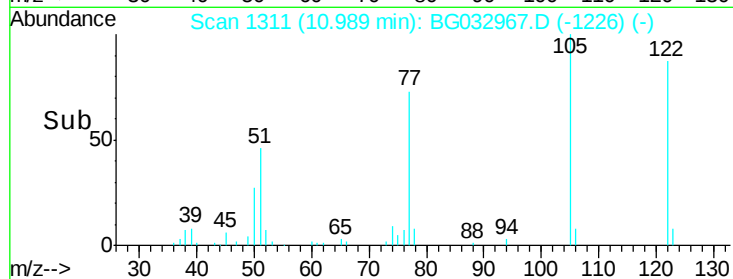
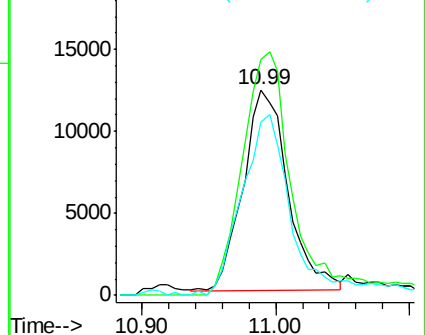
#32  
Benzoic acid  
Concen: 19.147 ng  
RT: 10.99 min Scan# 1311  
Delta R.T. -0.03 min  
Lab File: BG032967.D  
Acq: 3 Mar 2018 5:28

Instrument :  
BNA\_G  
ClientSampleId :  
TP-4

Tot Ion:122 Resp: 28578  
Ion Ratio Lower Upper  
122 100  
105 114.9 123.5 163.5#  
77 84.3 85.7 125.7#

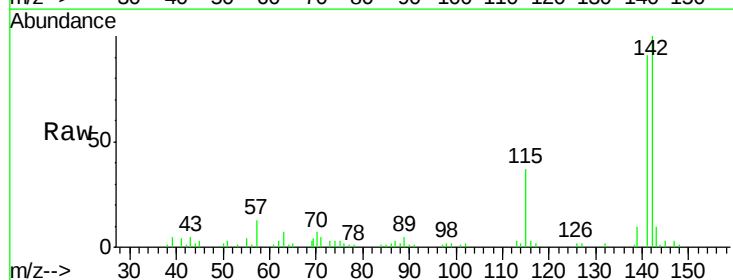


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): B

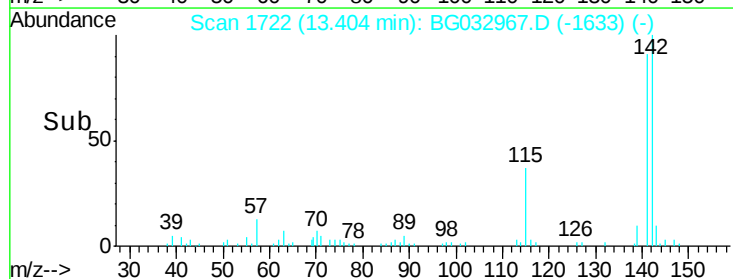
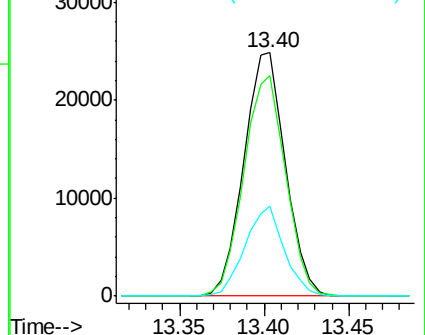


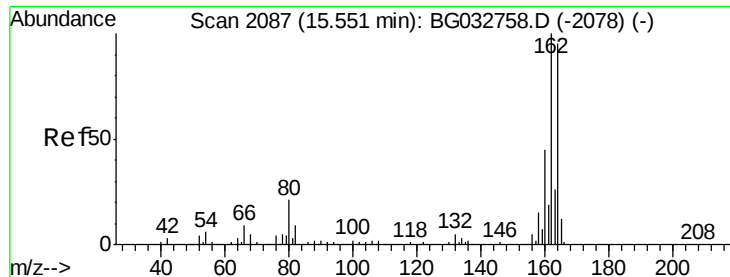
#37  
2-Methylnaphthalene  
Concen: 4.568 ng  
RT: 13.40 min Scan# 1722  
Delta R.T. -0.01 min  
Lab File: BG032967.D  
Acq: 3 Mar 2018 5:28

Tgt Ion:142 Resp: 42480  
Ion Ratio Lower Upper  
142 100  
141 90.9 67.1 100.7  
115 36.8 30.7 46.1



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

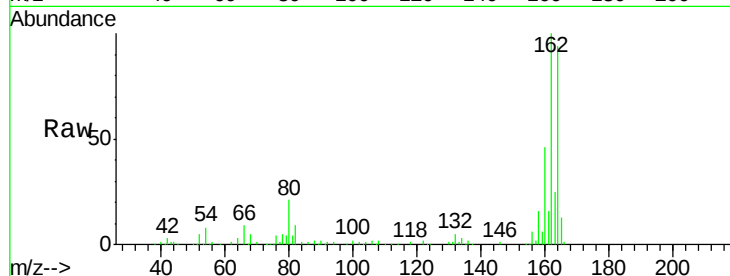




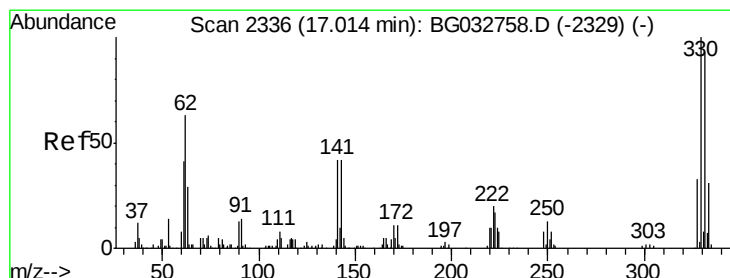
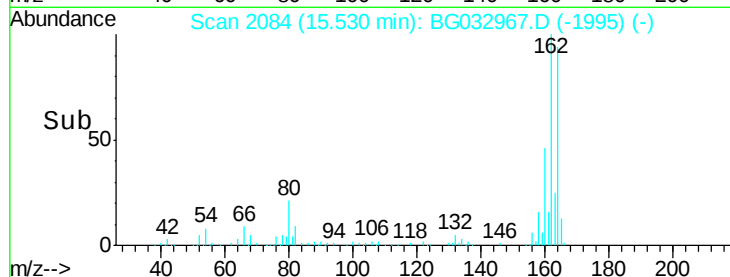
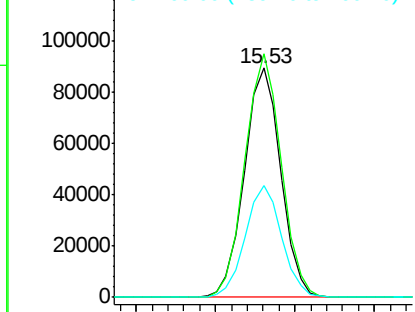
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.53 min Scan# 2084  
 Delta R.T. -0.01 min  
 Lab File: BG032967.D  
 Acq: 3 Mar 2018 5:28

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-4

Tot Ion:164 Resp: 141966  
 Ion Ratio Lower Upper  
 164 100  
 162 106.3 78.8 118.2  
 160 48.9 35.4 53.0

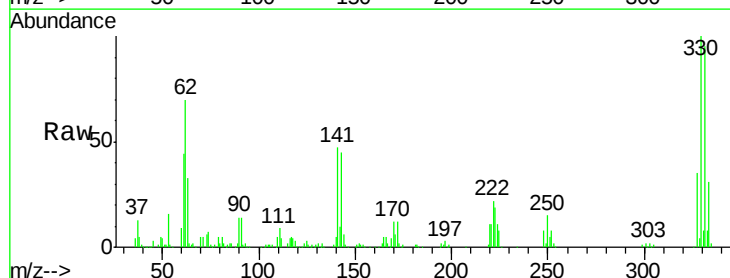


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

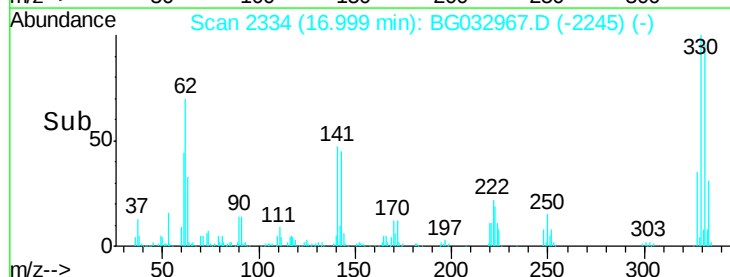
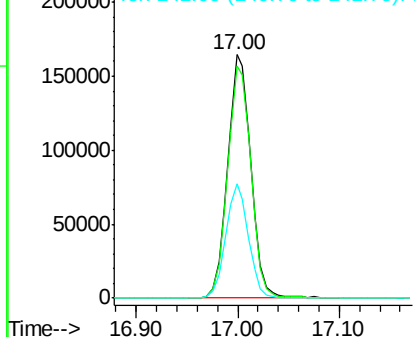


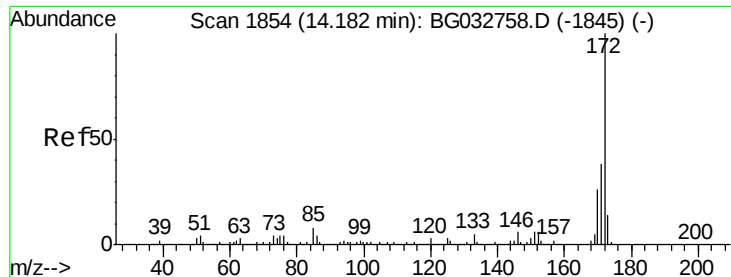
#41  
 2,4,6-Tribromophenol  
 Concen: 174.253 ng  
 RT: 17.00 min Scan# 2334  
 Delta R.T. -0.01 min  
 Lab File: BG032967.D  
 Acq: 3 Mar 2018 5:28

Tgt Ion:330 Resp: 260112  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 77.0 115.6  
 141 45.9 25.2 37.8#



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

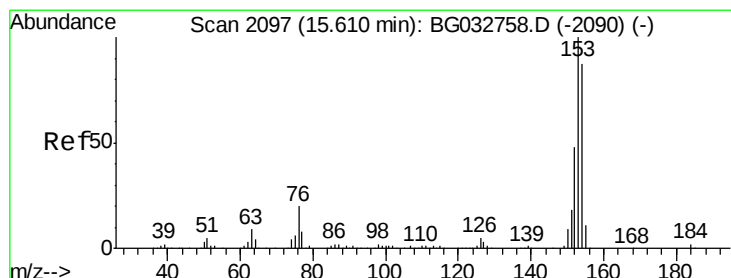
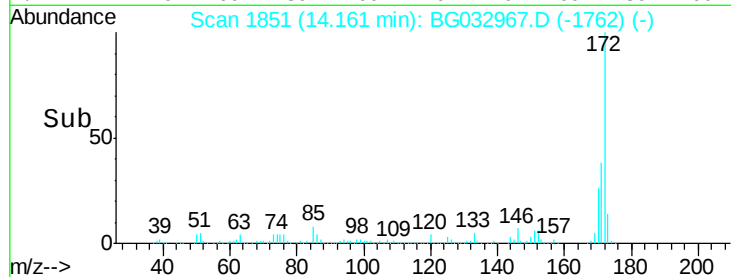
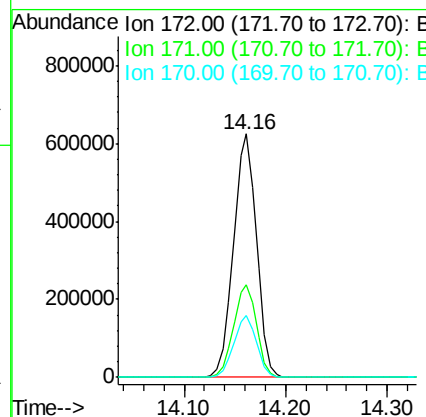
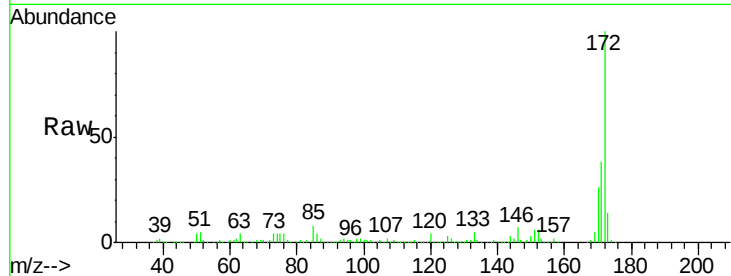




#44  
2-Fluorobiphenyl  
Concen: 99.430 ng  
RT: 14.16 min Scan# 1851  
Delta R.T. -0.01 min  
Lab File: BG032967.D  
Acq: 3 Mar 2018 5:28

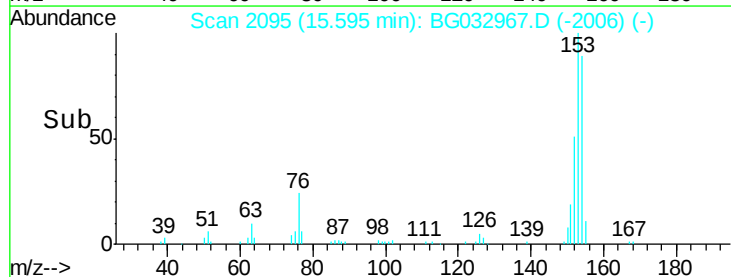
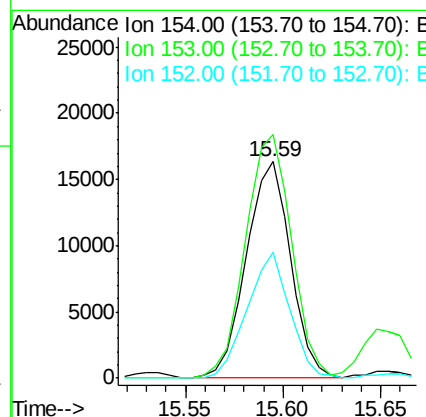
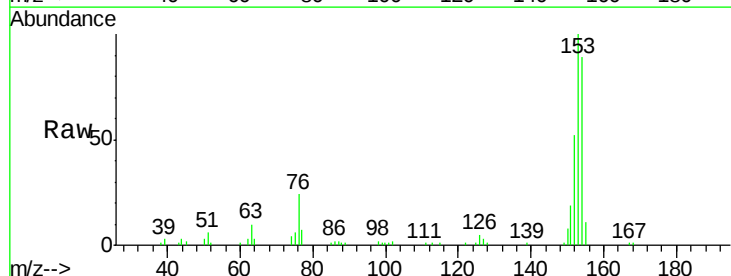
Instrument :  
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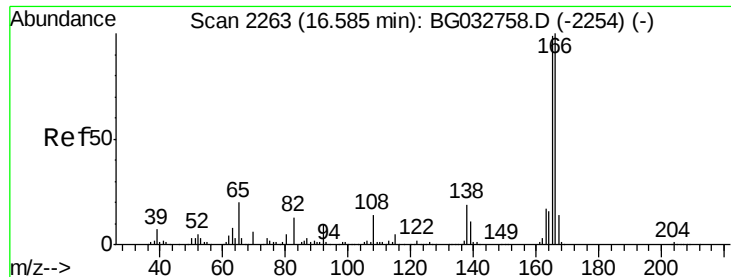
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.2  | 30.0  | 45.0  |
| 170     | 25.5  | 19.5  | 29.3  |



#51  
Acenaphthene  
Concen: 2.715 ng  
RT: 15.59 min Scan# 2095  
Delta R.T. -0.01 min  
Lab File: BG032967.D  
Acq: 3 Mar 2018 5:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 112.4 | 90.4  | 135.6 |
| 152     | 58.3  | 41.6  | 62.4  |





#57

Fluorene

Concen: 2.899 ng

RT: 16.56 min Scan# 2260

Delta R.T. -0.01 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

Instrument :

BNA\_G

ClientSampleId :

TP-4

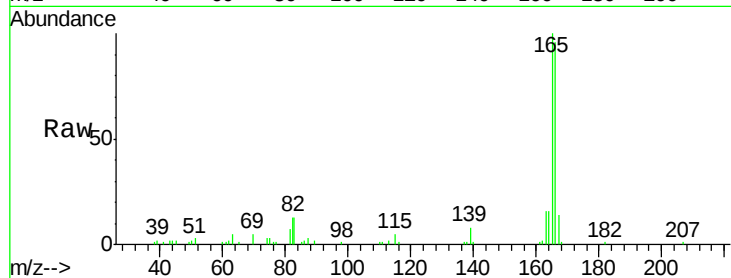
Tot Ion:166 Resp: 32195

Ion Ratio Lower Upper

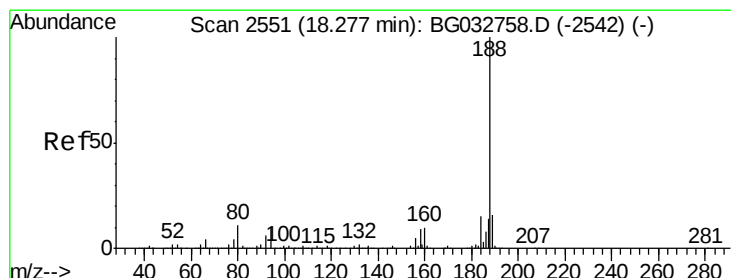
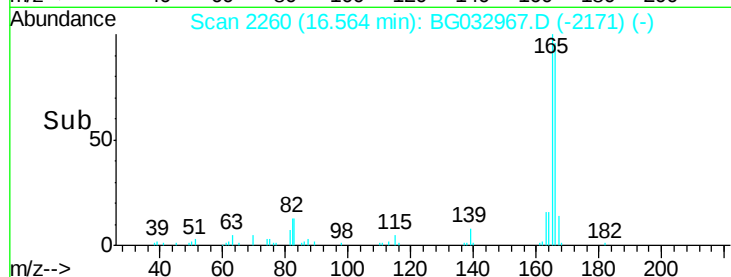
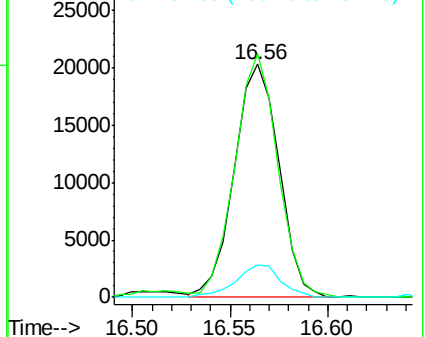
166 100

165 104.4 80.6 121.0

167 14.1 10.4 15.6



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: 18.26 min Scan# 2548

Delta R.T. -0.01 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

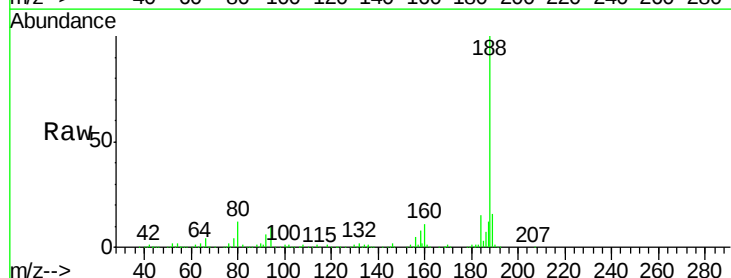
Tgt Ion:188 Resp: 338033

Ion Ratio Lower Upper

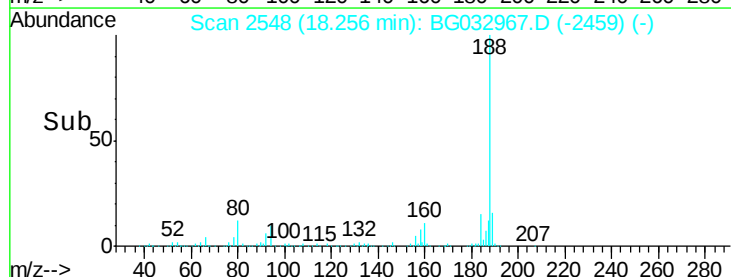
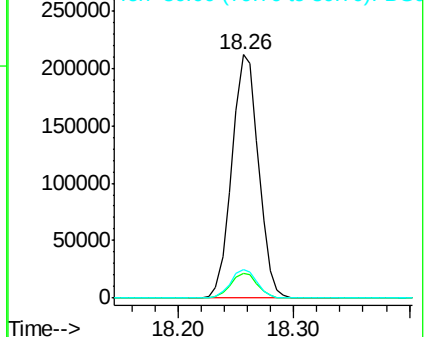
188 100

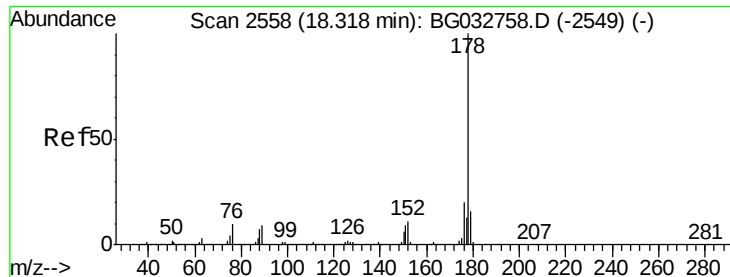
94 10.0 6.9 10.3

80 11.9 7.7 11.5#



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 4.199 ng

RT: 18.30 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

Instrument :

BNA\_G

ClientSampleId :

TP-4

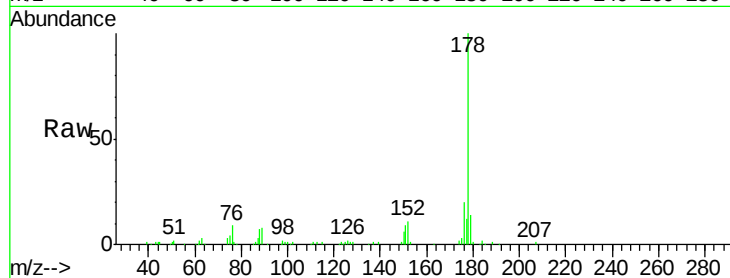
Tot Ion:178 Resp: 79181

Ion Ratio Lower Upper

178 100

176 19.8 15.7 23.5

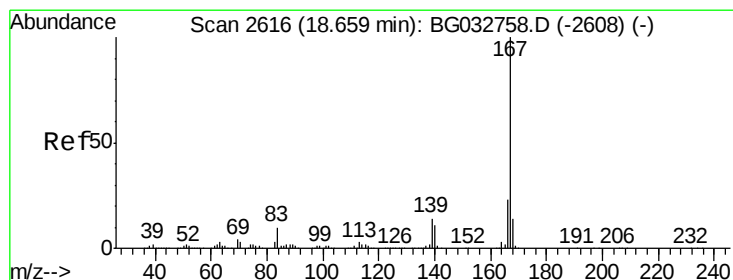
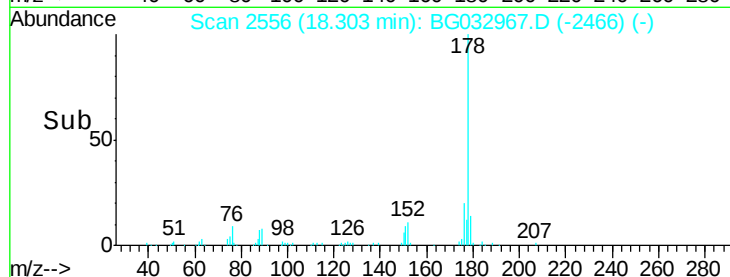
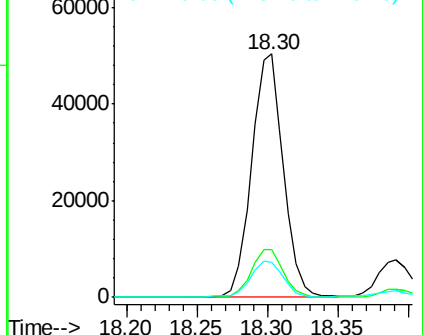
179 14.4 12.5 18.7



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



#72

Carbazole

Concen: 2.511 ng

RT: 18.64 min Scan# 2614

Delta R.T. -0.01 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

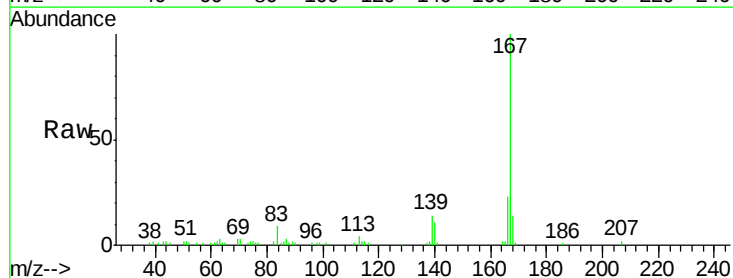
Tgt Ion:167 Resp: 46863

Ion Ratio Lower Upper

167 100

166 22.7 18.2 27.4

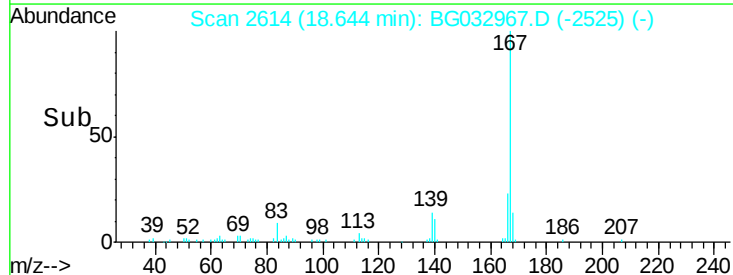
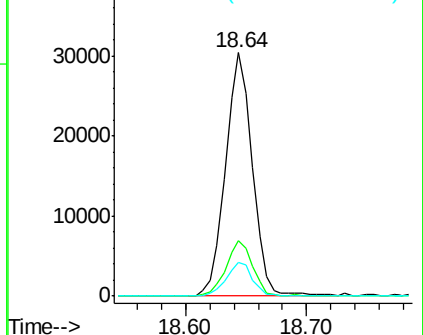
139 14.1 9.4 14.2

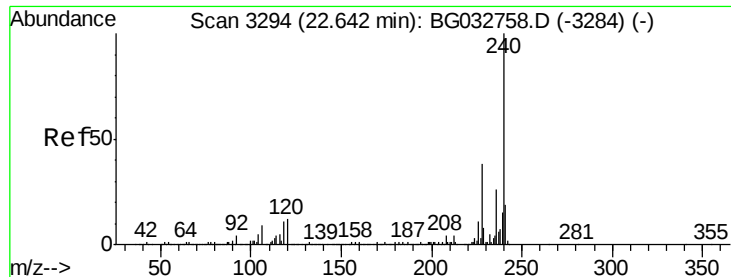


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.61 min Scan# 3290

Delta R.T. -0.01 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

Instrument :

BNA\_G

ClientSampleId :

TP-4

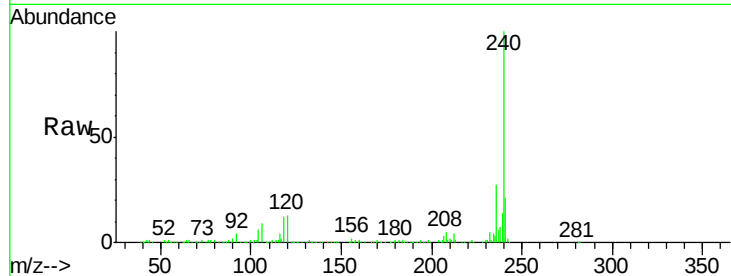
Tot Ion:240 Resp: 311501

Ion Ratio Lower Upper

240 100

120 13.1 6.8 10.2#

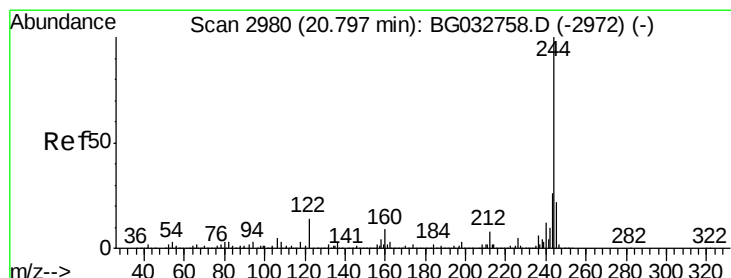
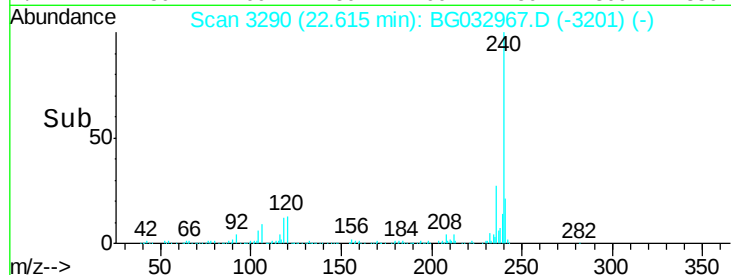
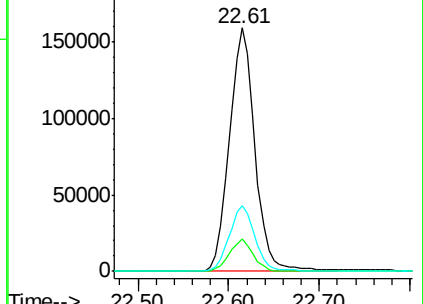
236 27.0 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 111.152 ng

RT: 20.78 min Scan# 2977

Delta R.T. 0.00 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

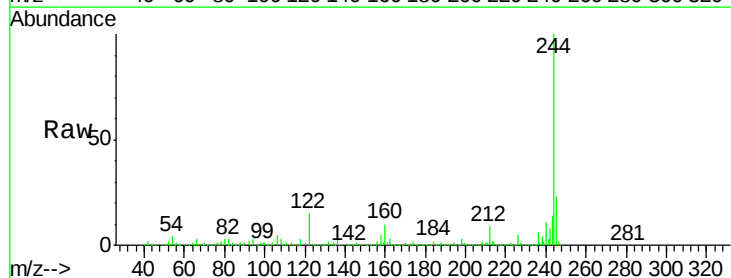
Tgt Ion:244 Resp: 1541082

Ion Ratio Lower Upper

244 100

212 8.6 5.8 8.8

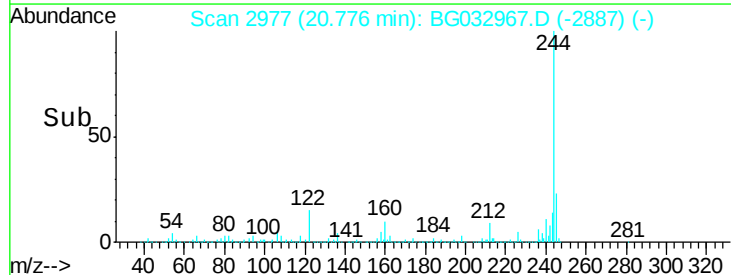
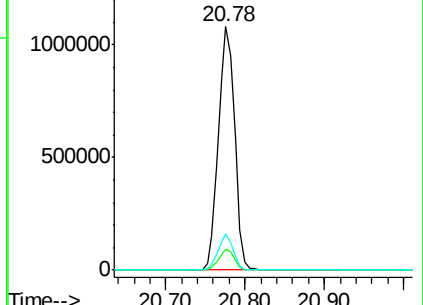
122 14.7 7.0 10.4#

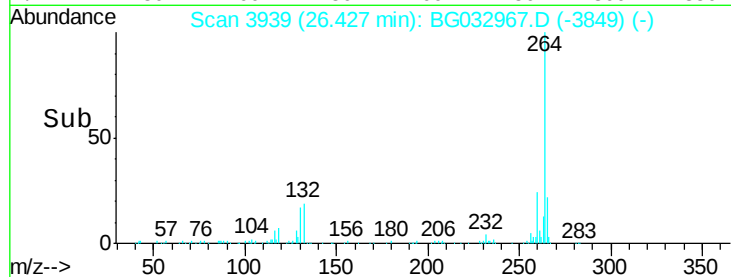
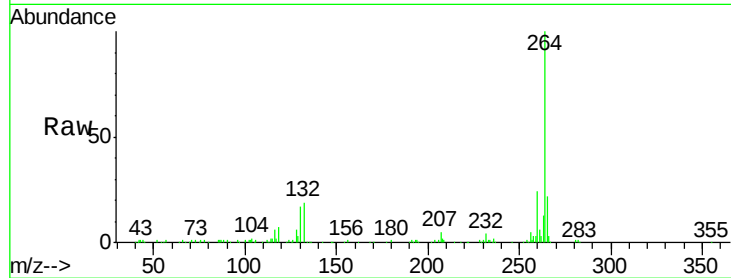
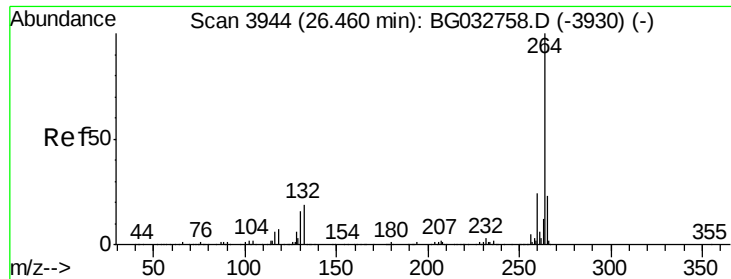


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 26.43 min Scan# 3939

Delta R.T. 0.00 min

Lab File: BG032967.D

Acq: 3 Mar 2018 5:28

Instrument :

BNA\_G

ClientSampleId :

TP-4

Tot Ion:264 Resp: 298842

Ion Ratio Lower Upper

264 100

260 24.0 17.4 26.0

265 21.5 17.7 26.5

