

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031618\  
 Data File : BG033209.D  
 Acq On : 16 Mar 2018 21:09  
 Operator : SJ/JU  
 Sample : J1928-01RE  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 FK-BPM-01-E01-E01A-F01-F01A

Quant Time: Mar 17 05:21:56 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 14 13:59:34 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.90  | 152  | 43567    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.78 | 136  | 176817   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.51 | 164  | 125648   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.24 | 188  | 333319   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.59 | 240  | 343144   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 26.40 | 264  | 365831   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.31  | 112  | 302003   | 110.90 | ng    | 0.00     |
| 7) Phenol-d6                | 8.00  | 99   | 449527   | 118.43 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 10.09 | 82   | 290096   | 110.49 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 16.98 | 330  | 206246   | 156.11 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.14 | 172  | 624944   | 71.73  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.76 | 244  | 1082364  | 70.87  | ng    | 0.00     |

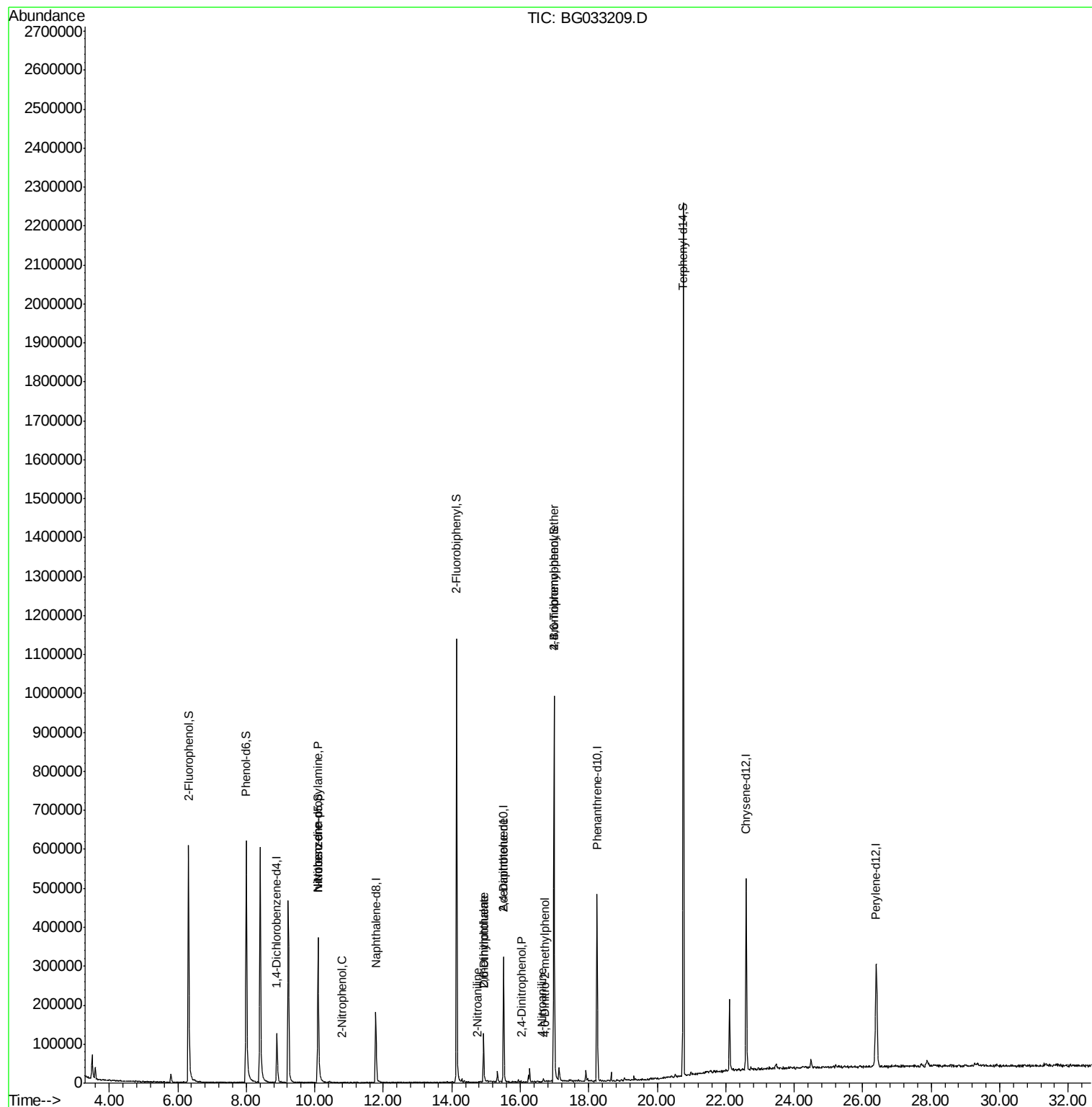
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 10.10 | 70   | 40172    | 14.991 | ng    | # 77   |
| 24) Nitrobenzene               | 10.10 | 77   | 952      | 6.673  | ng    | # 33   |
| 26) 2-Nitrophenol              | 10.77 | 139  | 57       | 5.496  | ng    | # 29   |
| 47) 2-Nitroaniline             | 14.75 | 65   | 58       | 9.858  | ng    | # 9    |
| 49) Dimethylphthalate          | 14.93 | 163  | 90740    | 8.505  | ng    | # 98   |
| 50) 2,6-Dinitrotoluene         | 14.93 | 165  | 852      | 9.291  | ng    | # 34   |
| 53) 2,4-Dinitrophenol          | 16.04 | 184  | 57       | 3.536  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.51 | 165  | 16745    | 14.822 | ng    | # 16   |
| 61) 4-Nitroaniline             | 16.63 | 138  | 59       | 5.322  | ng    | # 12   |
| 64) 4,6-Dinitro-2-methylphenol | 16.71 | 198  | 57       | 5.020  | ng    | # 29   |
| 66) 4-Bromophenyl-phenylether  | 16.98 | 248  | 15671    | 4.446  | ng    | # 1    |

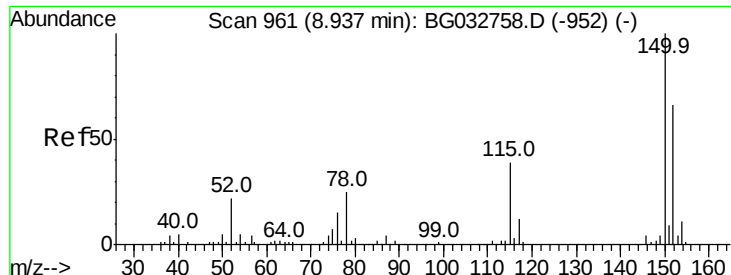
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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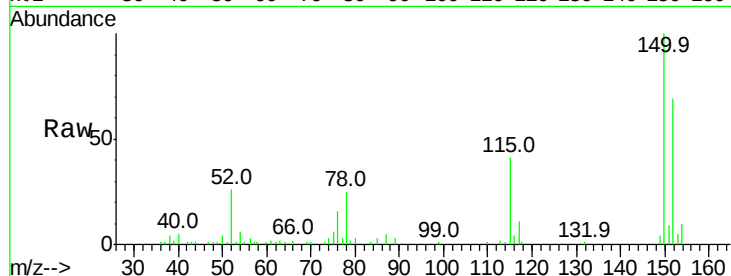


#1

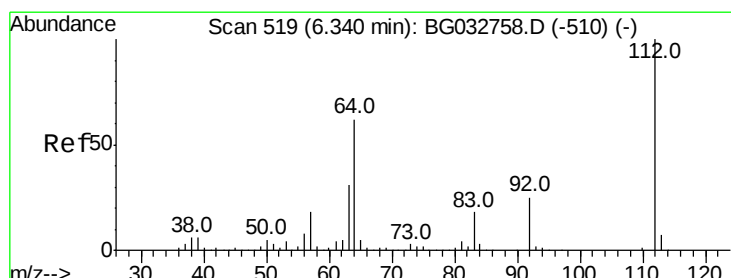
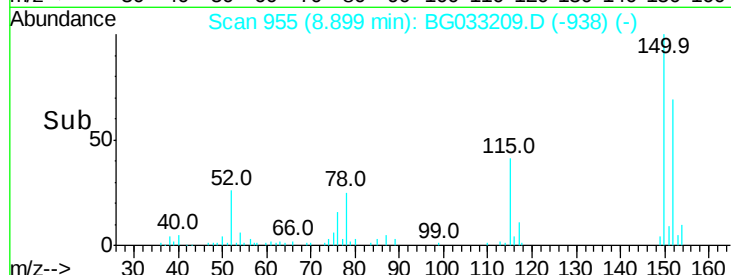
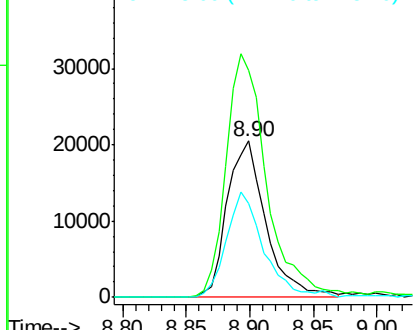
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.90 min Scan# 955  
Delta R.T. 0.00 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Instrument :  
BNA\_G  
ClientSampleId :  
FK-BPM-01-E01-E01A-F01-F01A

Tot Ion:152 Resp: 43567  
Ion Ratio Lower Upper  
152 100  
150 145.0 126.6 189.8  
115 59.8 53.0 79.4



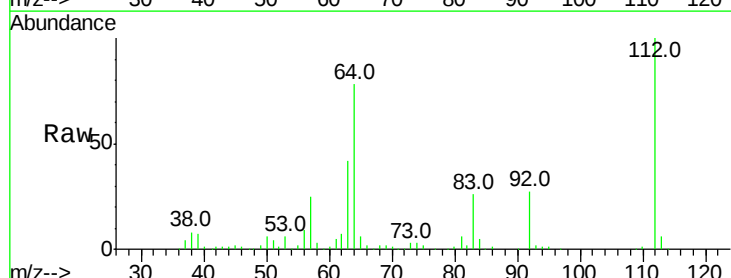
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



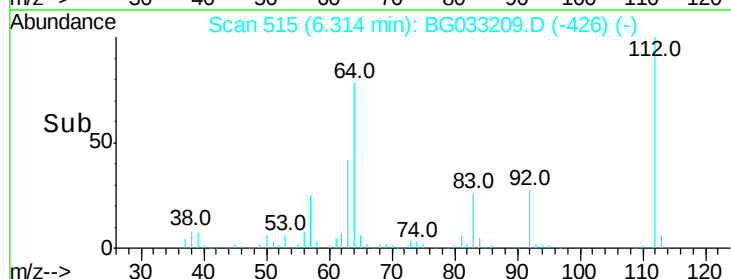
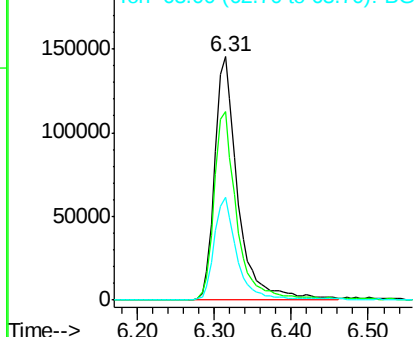
#5

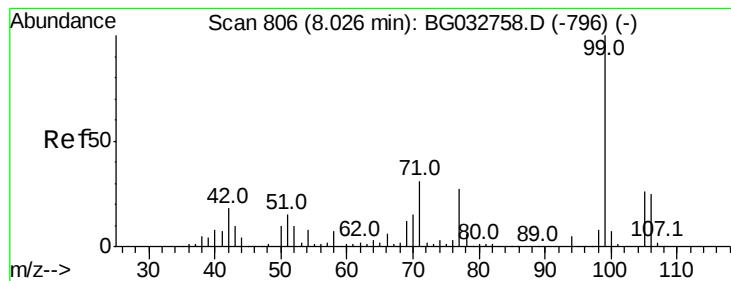
2-Fluorophenol  
Concen: 110.901 ng  
RT: 6.31 min Scan# 515  
Delta R.T. -0.00 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Tgt Ion:112 Resp: 302003  
Ion Ratio Lower Upper  
112 100  
64 77.6 56.3 84.5  
63 42.3 30.1 45.1



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





#7

Phenol-d6

Concen: 118.429 ng

RT: 8.00 min Scan# 802

Delta R.T. -0.01 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

Instrument :

BNA\_G

ClientSampleId :

FK-BPM-01-E01-E01A-F01-F01A

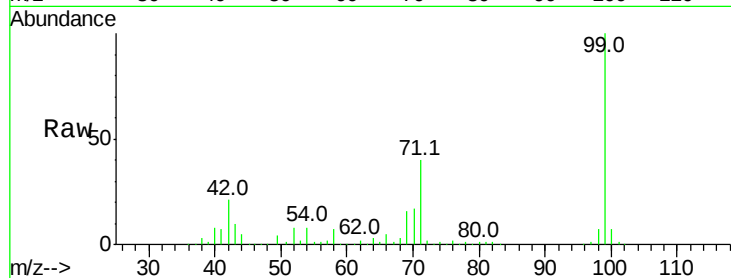
Tot Ion: 99 Resp: 449527

Ion Ratio Lower Upper

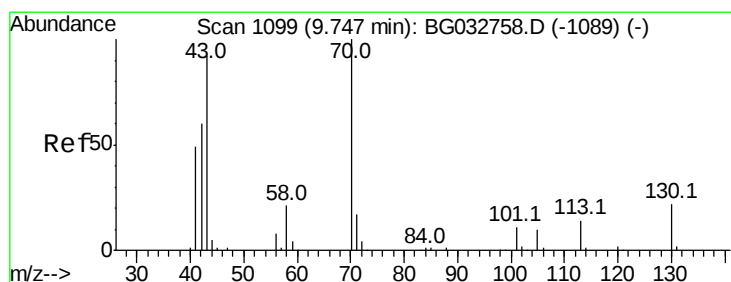
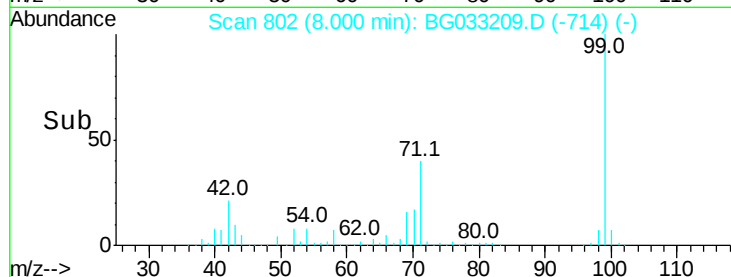
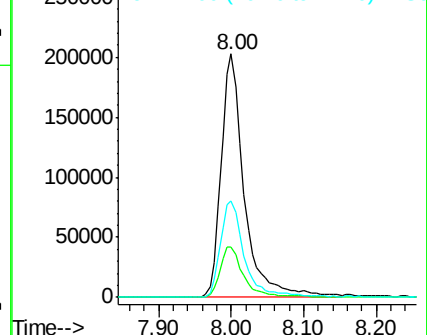
99 100

42 20.7 14.1 21.1

71 39.7 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



#19

n-Nitroso-di-n-propylamine

Concen: 14.991 ng

RT: 10.10 min Scan# 1159

Delta R.T. 0.38 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

Tgt Ion: 70 Resp: 40172

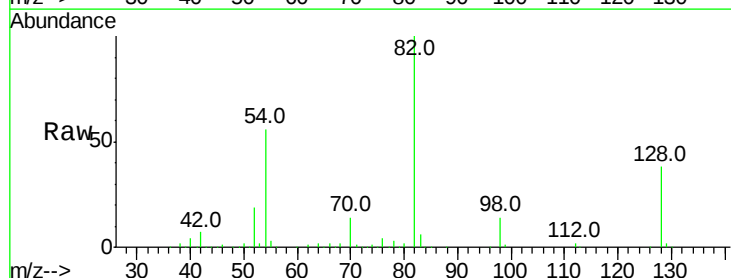
Ion Ratio Lower Upper

70 100

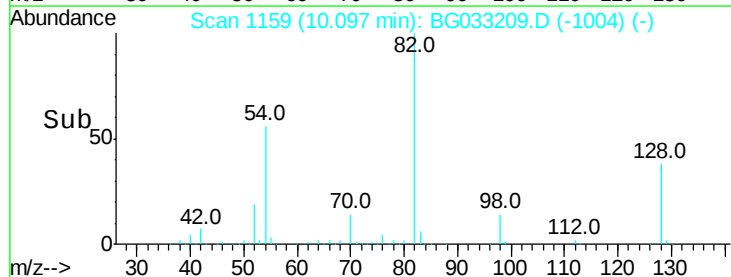
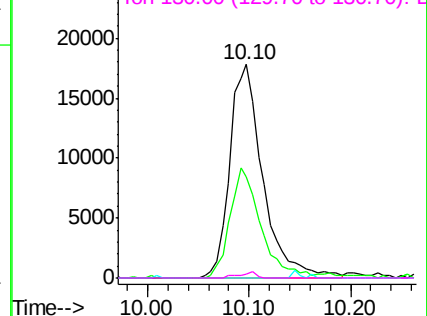
42 47.2 49.1 73.7#

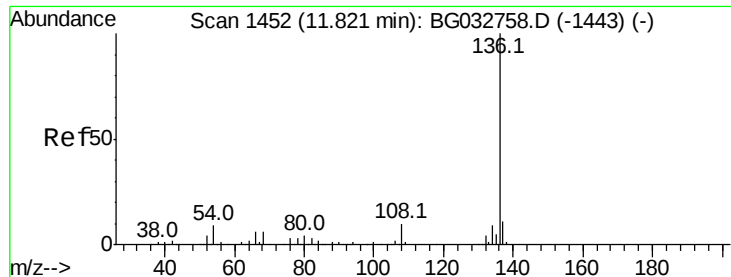
101 0.0 8.5 12.7#

130 2.0 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.78 min Scan# 1445

Delta R.T. -0.01 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

Instrument :

BNA\_G

ClientSampleId :

FK-BPM-01-E01-E01A-F01-F01A

Tot Ion:136 Resp: 176817

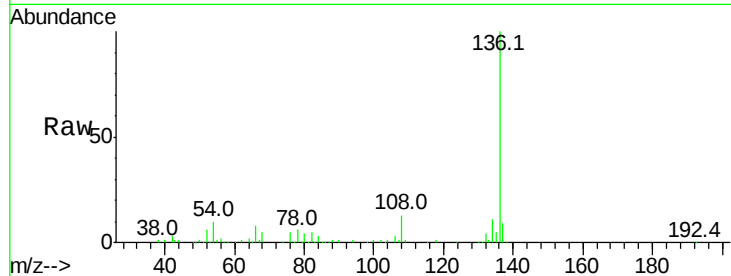
Ion Ratio Lower Upper

136 100

137 8.8 9.2 13.8#

54 9.8 10.3 15.5#

68 5.4 4.5 6.7

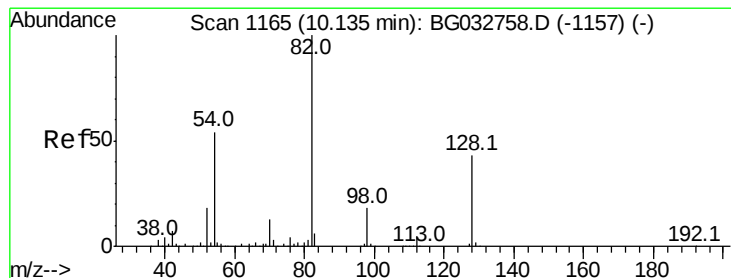
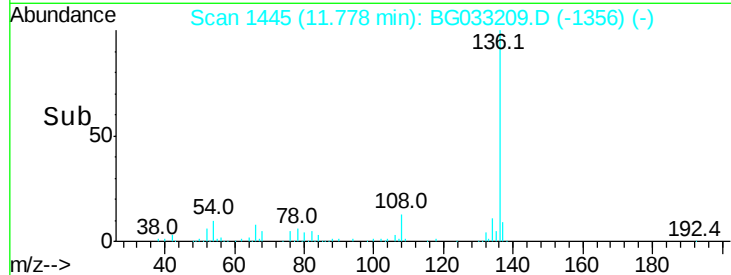
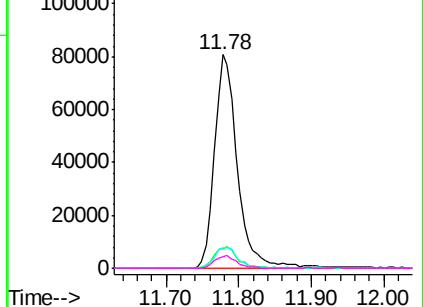


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 110.489 ng

RT: 10.09 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

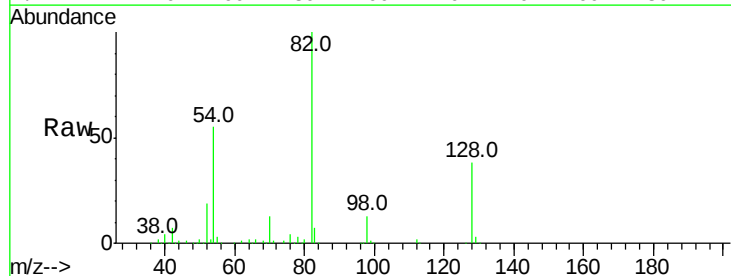
Tgt Ion: 82 Resp: 290096

Ion Ratio Lower Upper

82 100

128 38.1 29.7 44.5

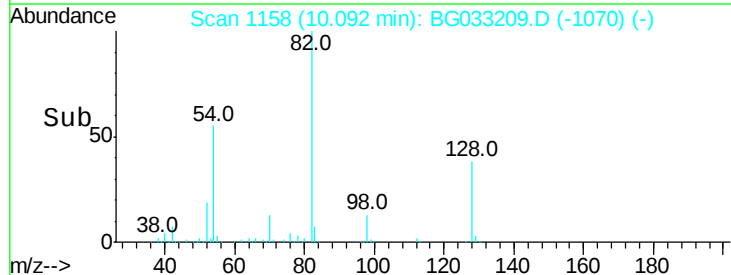
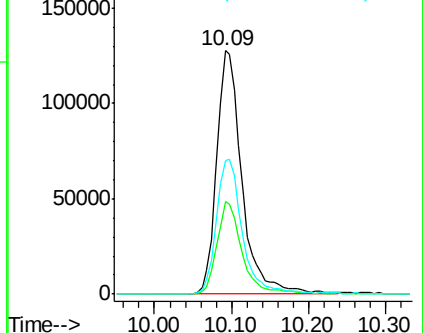
54 54.7 43.1 64.7

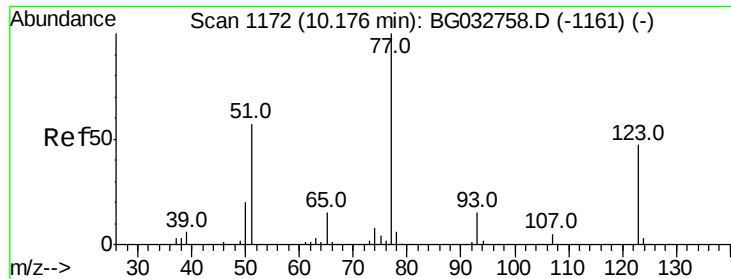


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#24

Nitrobenzene

Concen: 6.673 ng

RT: 10.10 min Scan# 1159

Delta R.T. -0.05 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

Instrument :

BNA\_G

ClientSampleId :

FK-BPM-01-E01-E01A-F01-F01A

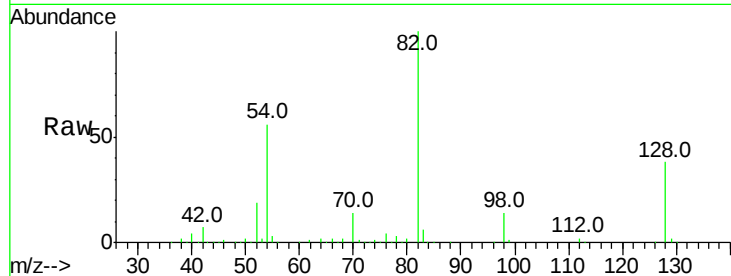
Tot Ion: 77 Resp: 952

Ion Ratio Lower Upper

77 100

123 0.0 33.0 49.6#

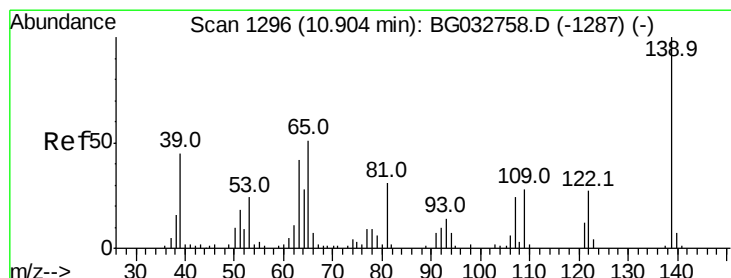
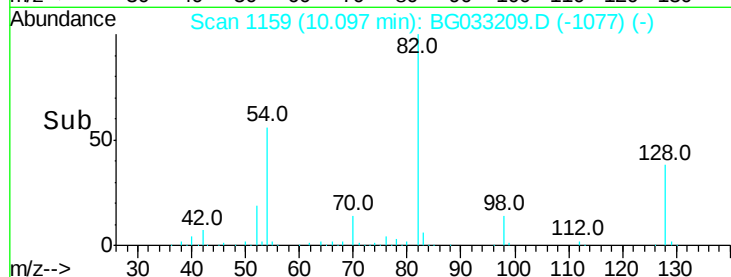
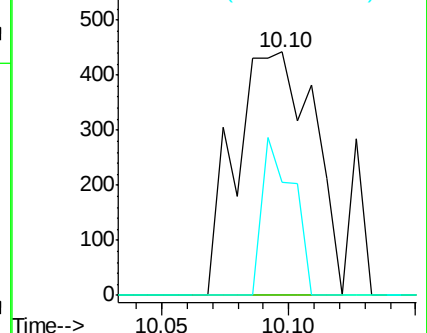
65 46.4 13.0 19.6#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): BGC

Ion 65.00 (64.70 to 65.70): BGC



#26

2-Nitrophenol

Concen: 5.496 ng

RT: 10.77 min Scan# 1274

Delta R.T. -0.10 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

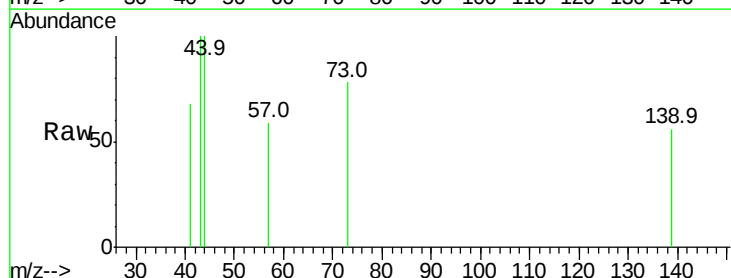
Tgt Ion: 139 Resp: 57

Ion Ratio Lower Upper

139 100

109 0.0 24.2 36.2#

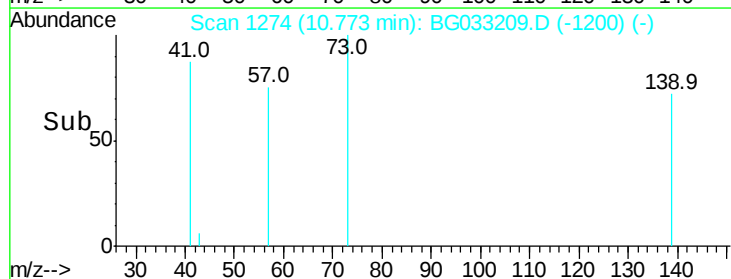
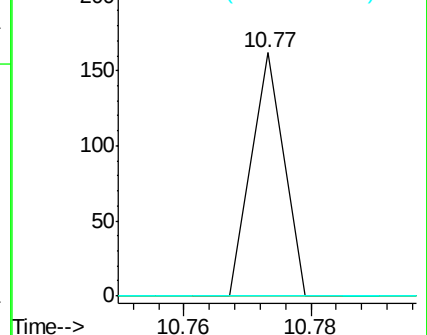
65 0.0 47.4 71.0#

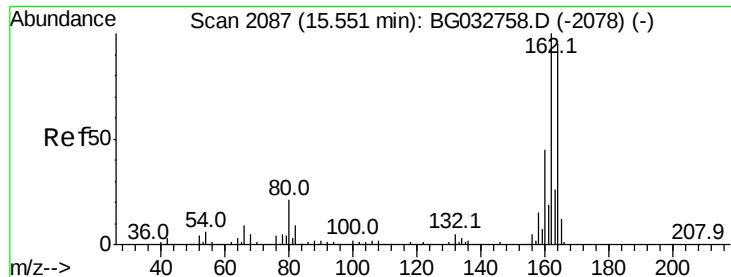


Abundance Ion 139.00 (138.70 to 139.70): BGC

Ion 109.00 (108.70 to 109.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

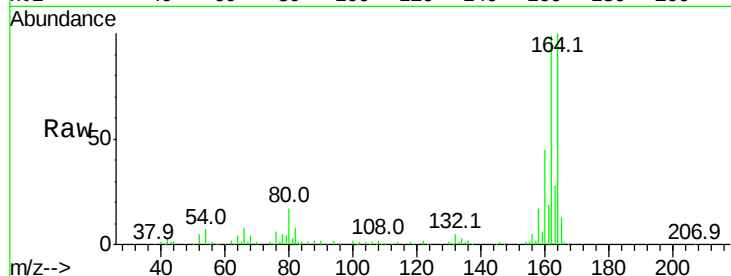




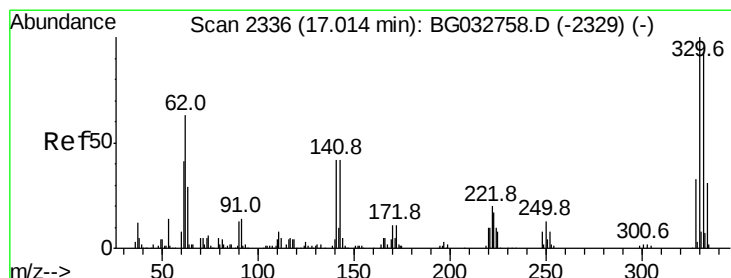
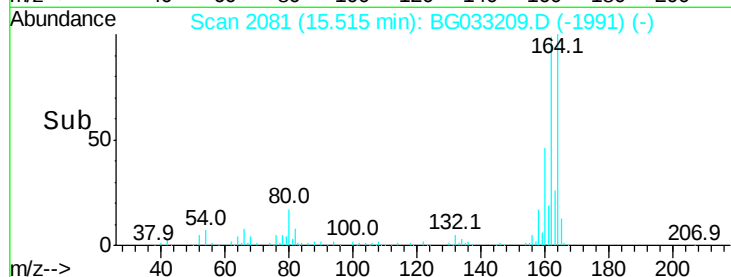
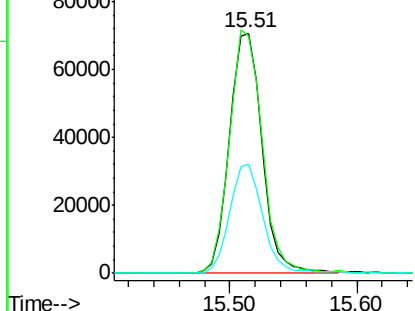
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.51 min Scan# 2081  
Delta R.T. -0.00 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Instrument :  
BNA\_G  
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FK-BPM-01-E01-E01A-F01-F01A

Tot Ion:164 Resp: 125648  
Ion Ratio Lower Upper  
164 100  
162 99.0 78.8 118.2  
160 45.3 35.4 53.0

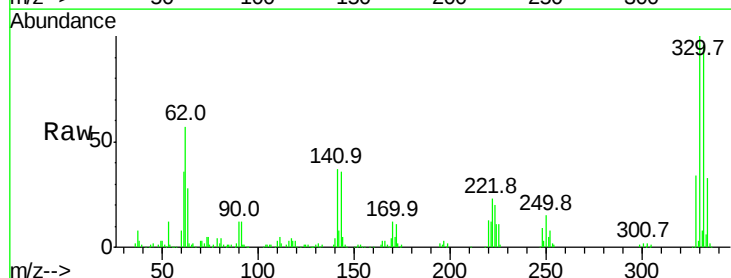


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

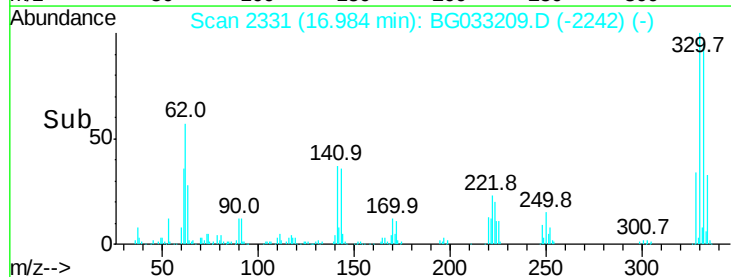
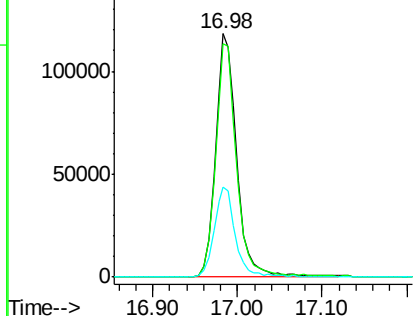


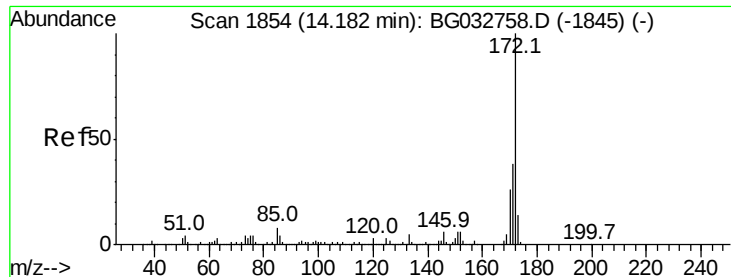
#41  
2,4,6-Tribromophenol  
Concen: 156.111 ng  
RT: 16.98 min Scan# 2331  
Delta R.T. -0.01 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Tgt Ion:330 Resp: 206246  
Ion Ratio Lower Upper  
330 100  
332 94.7 77.0 115.6  
141 37.4 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

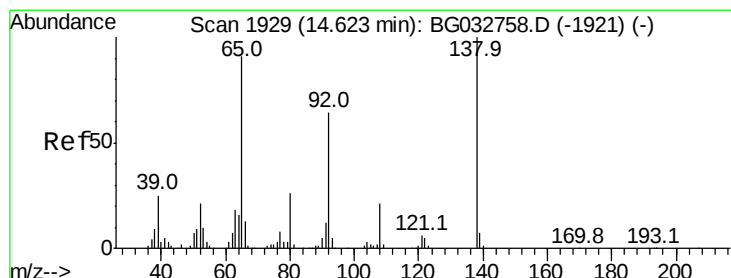
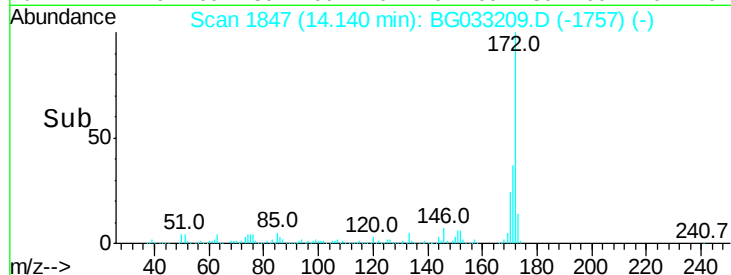
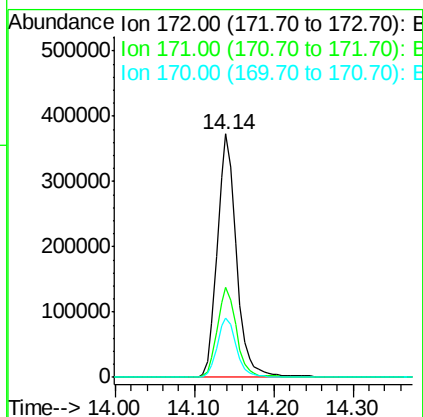
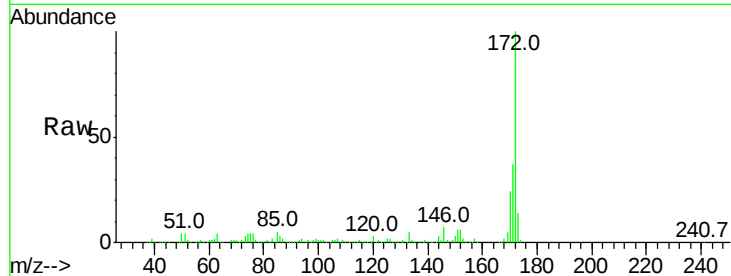




#44  
2-Fluorobiphenyl  
Concen: 71.734 ng  
RT: 14.14 min Scan# 1847  
Delta R.T. -0.00 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

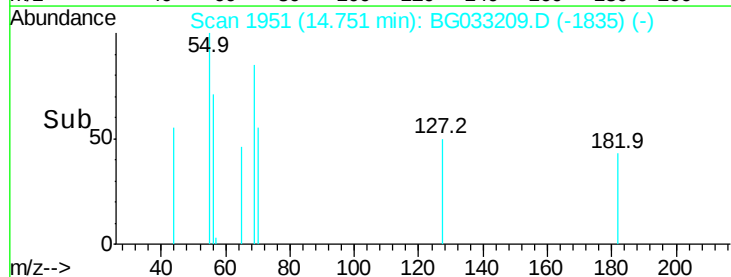
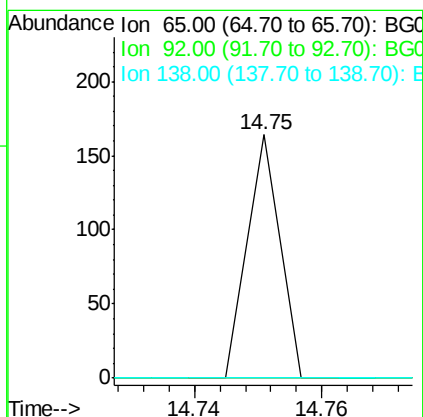
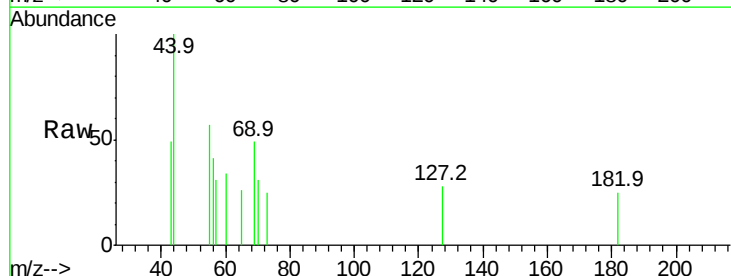
Instrument :  
BNA\_G  
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FK-BPM-01-E01-E01A-F01-F01A

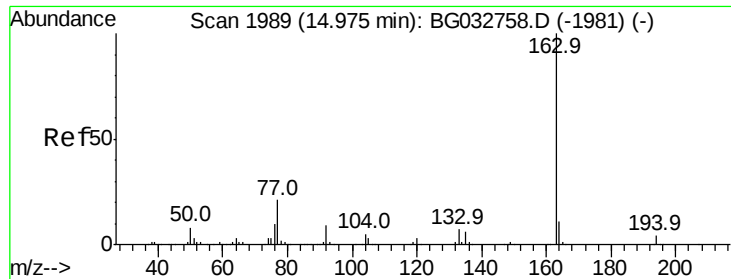
Tot Ion:172 Resp: 624944  
Ion Ratio Lower Upper  
172 100  
171 36.7 30.0 45.0  
170 24.4 19.5 29.3



#47  
2-Nitroaniline  
Concen: 9.858 ng  
RT: 14.75 min Scan# 1951  
Delta R.T. 0.15 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Tgt Ion: 65 Resp: 58  
Ion Ratio Lower Upper  
65 100  
92 0.0 54.6 82.0#  
138 0.0 72.9 109.3#





#49

Dimethylphthalate

Concen: 8.505 ng

RT: 14.93 min Scan# 1982

Delta R.T. -0.01 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

Instrument :

BNA\_G

ClientSampleId :

FK-BPM-01-E01-E01A-F01-F01A

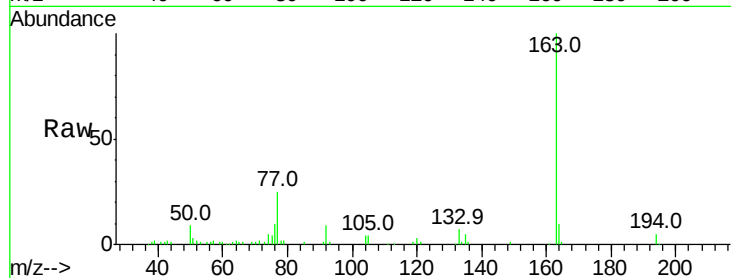
Tot Ion:163 Resp: 90740

Ion Ratio Lower Upper

163 100

194 4.8 3.4 5.2

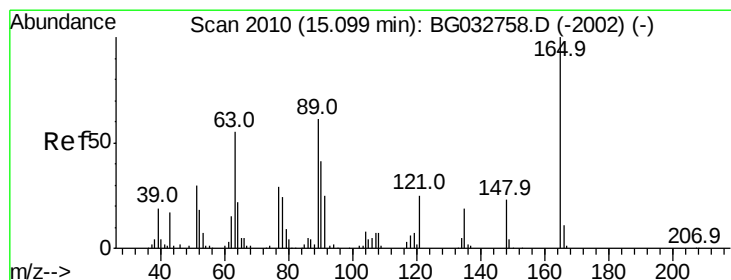
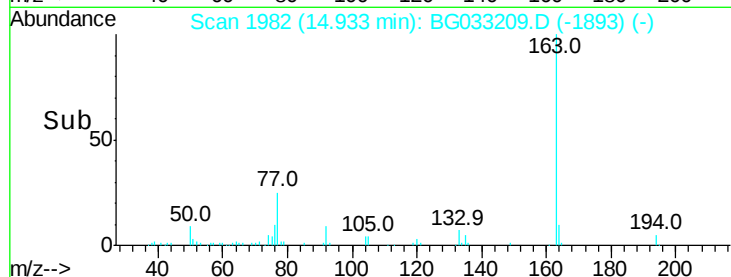
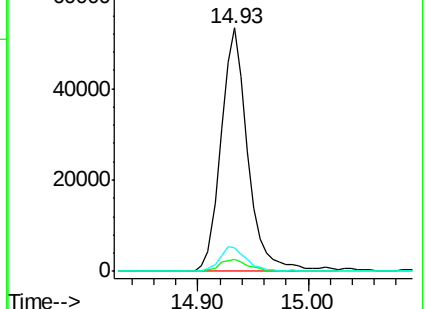
164 9.6 8.2 12.4



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: 9.291 ng

RT: 14.93 min Scan# 1982

Delta R.T. -0.14 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

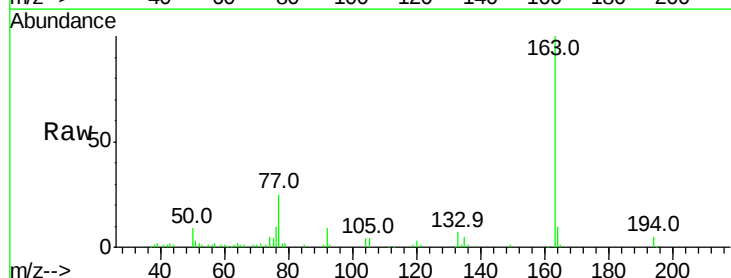
Tgt Ion:165 Resp: 852

Ion Ratio Lower Upper

165 100

63 107.4 52.7 79.1#

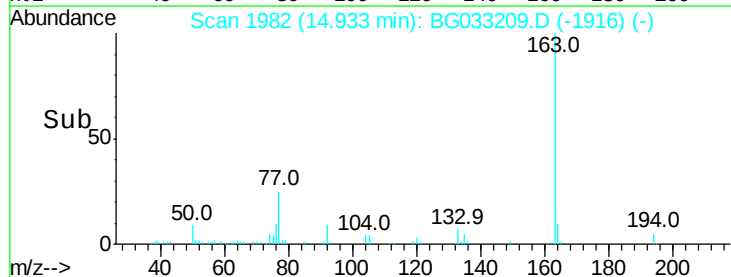
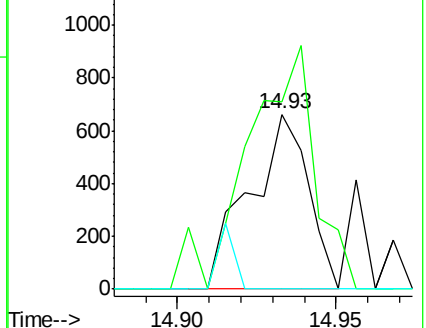
89 0.0 49.2 73.8#

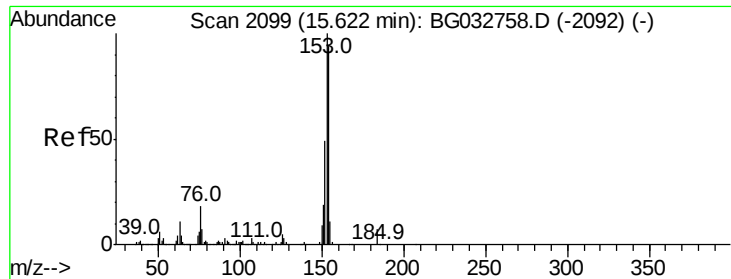


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

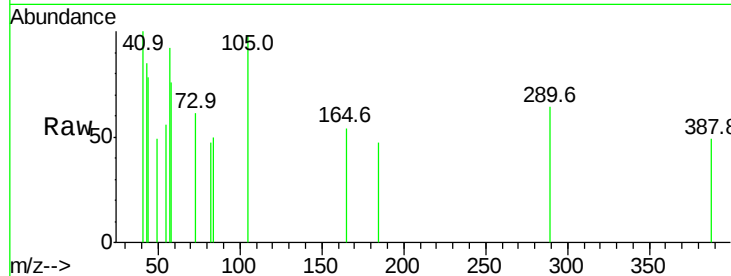




#53  
2,4-Dinitrophenol  
Concen: 3.536 ng  
RT: 16.04 min Scan# 2171  
Delta R.T. 0.44 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

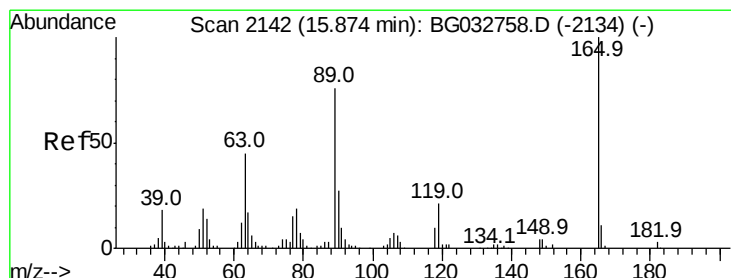
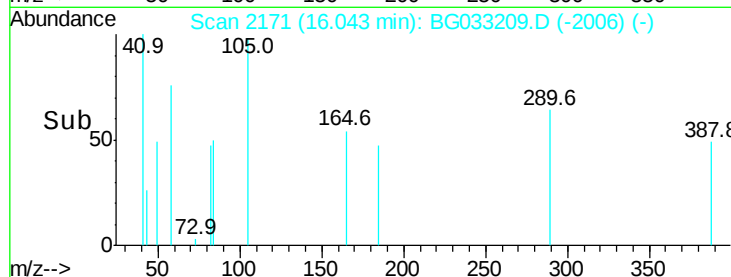
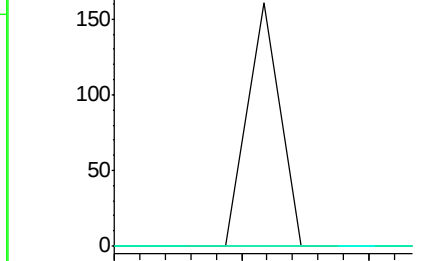
Instrument :  
BNA\_G  
ClientSampleId :  
FK-BPM-01-E01-E01A-F01-F01A

Tot Ion:184 Resp: 57  
Ion Ratio Lower Upper  
184 100  
63 0.0 59.8 89.8#  
154 0.0 101.8 152.8#



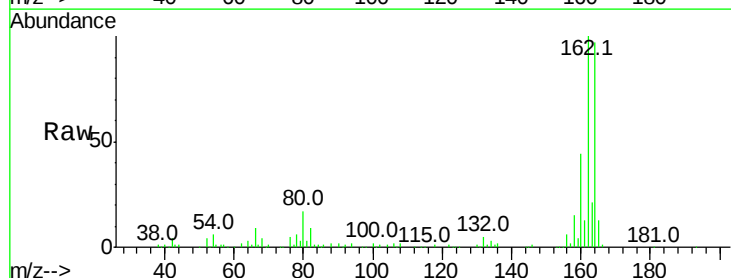
Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 154.00 (153.70 to 154.70): E

16.04



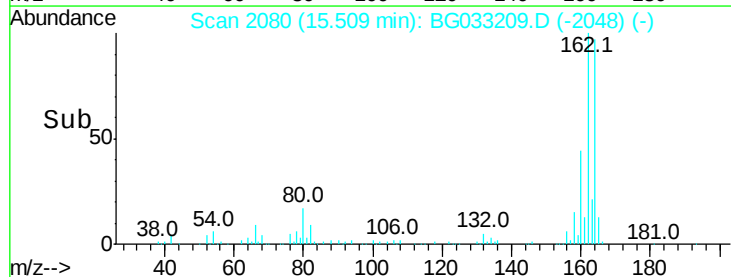
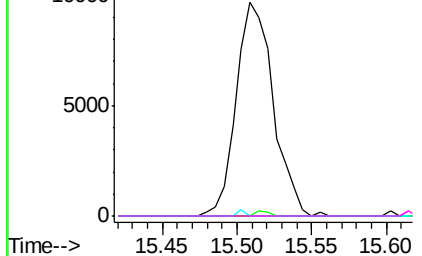
#56  
2,4-Dinitrotoluene  
Concen: 14.822 ng  
RT: 15.51 min Scan# 2080  
Delta R.T. -0.34 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

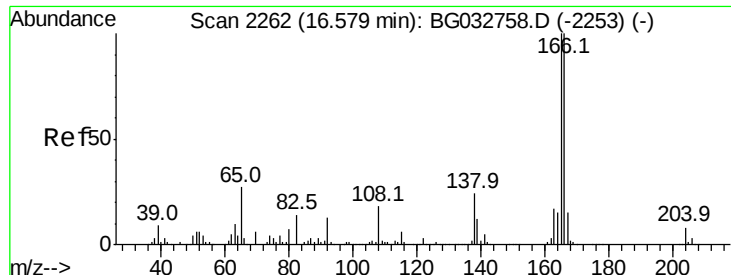
Tgt Ion:165 Resp: 16745  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 0.0 66.9 100.3#  
182 0.0 2.6 3.8#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

15.51

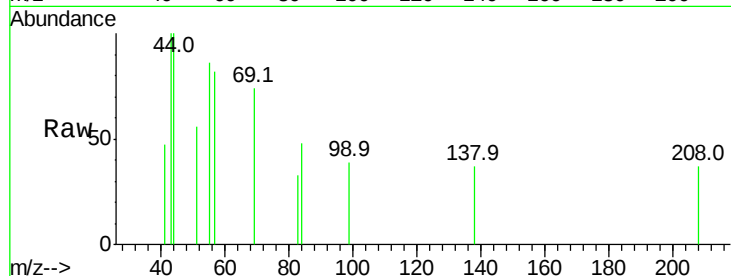




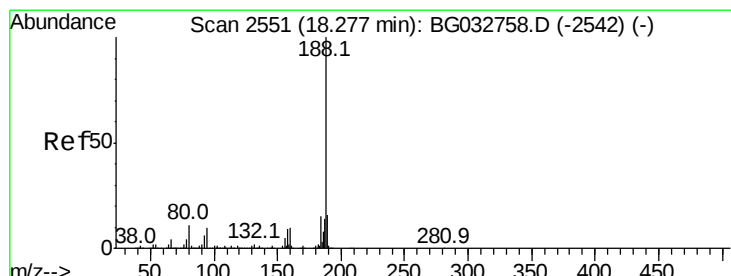
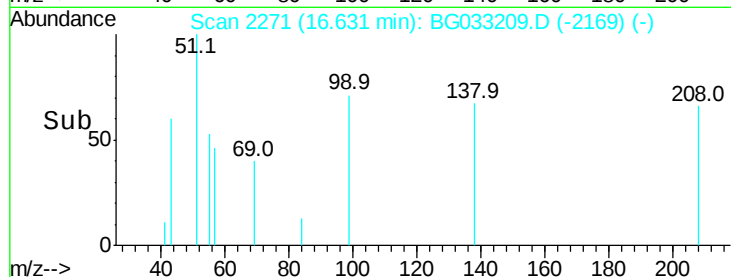
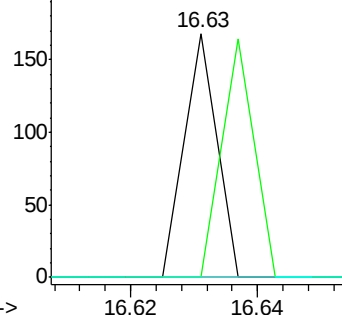
#61  
4-Nitroaniline  
Concen: 5.322 ng  
RT: 16.63 min Scan# 2271  
Delta R.T. 0.07 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Instrument :  
BNA\_G  
ClientSampleId :  
FK-BPM-01-E01-E01A-F01-F01A

Tot Ion:138 Resp: 59  
Ion Ratio Lower Upper  
138 100  
92 0.0 40.1 80.1#  
108 0.0 65.4 105.4#

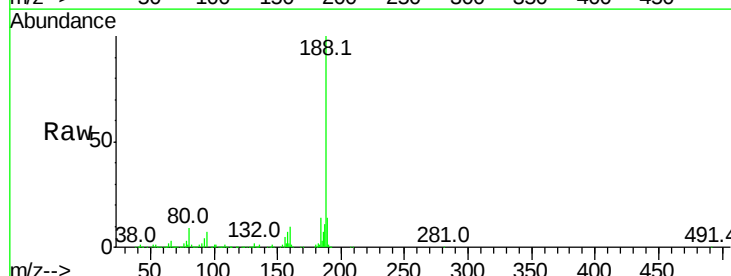


Abundance Ion 138.00 (137.70 to 138.70): E  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 108.00 (107.70 to 108.70): E

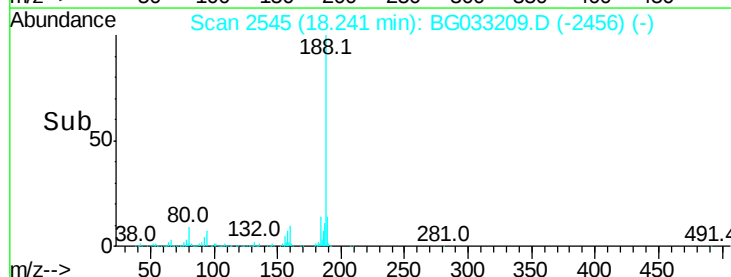
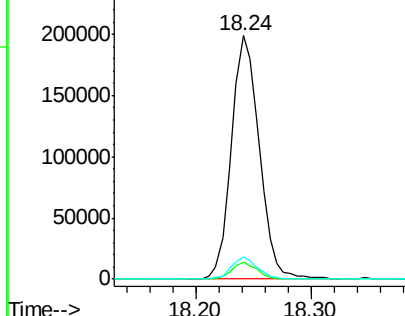


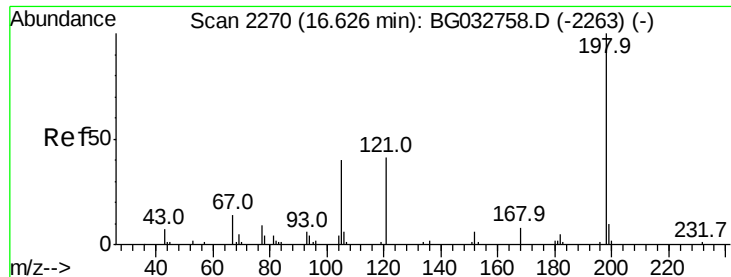
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.24 min Scan# 2545  
Delta R.T. -0.01 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Tgt Ion:188 Resp: 333319  
Ion Ratio Lower Upper  
188 100  
94 6.9 6.9 10.3  
80 8.9 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

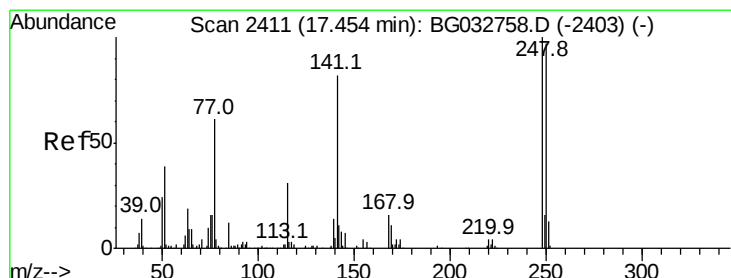
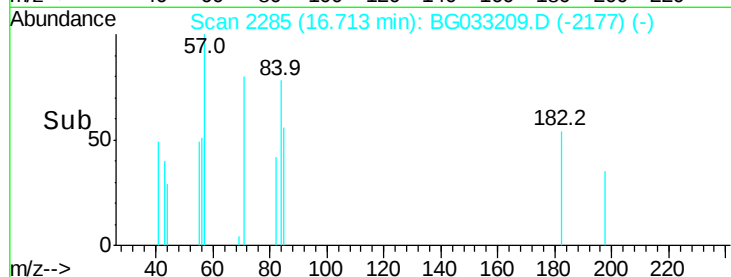
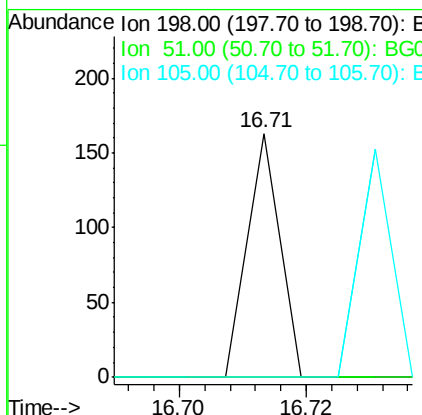
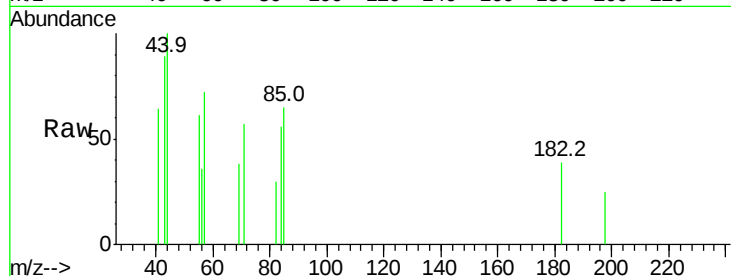




#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.020 ng  
RT: 16.71 min Scan# 2285  
Delta R.T. 0.10 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

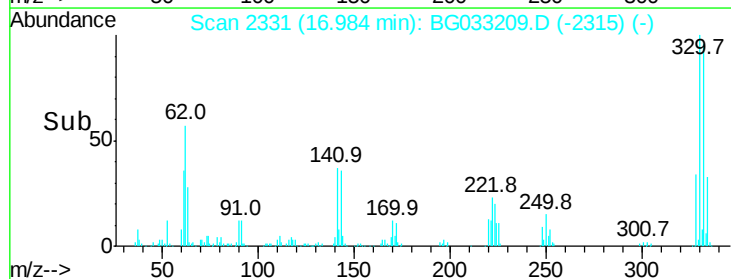
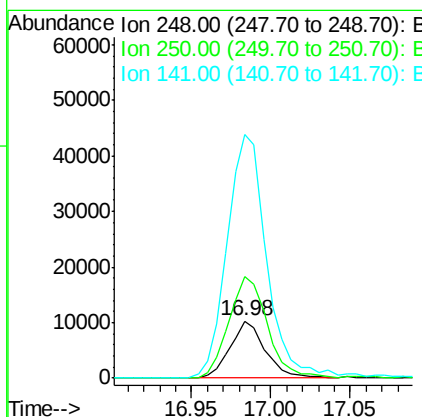
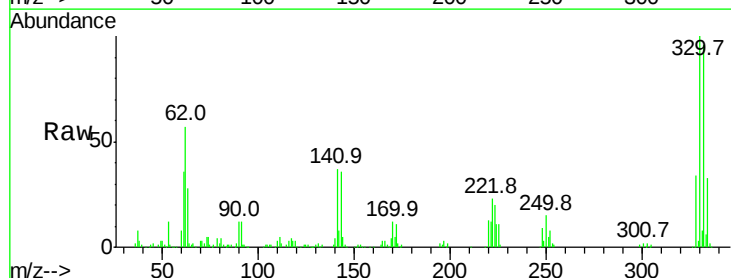
Instrument :  
BNA\_G  
ClientSampleId :  
FK-BPM-01-E01-E01A-F01-F01A

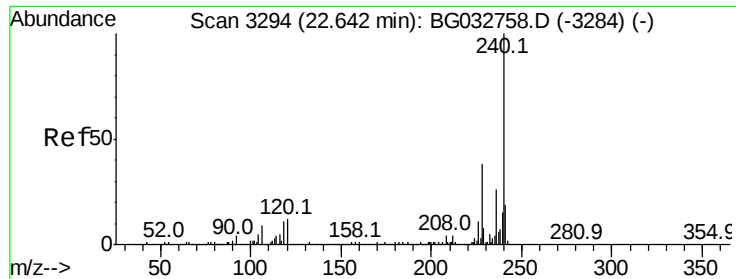
Tot Ion:198 Resp: 57  
Ion Ratio Lower Upper  
198 100  
51 0.0 30.6 70.6#  
105 0.0 23.8 63.8#



#66  
4-Bromophenyl-phenylether  
Concen: 4.446 ng  
RT: 16.98 min Scan# 2331  
Delta R.T. -0.44 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Tgt Ion:248 Resp: 15671  
Ion Ratio Lower Upper  
248 100  
250 134.4 77.1 115.7#  
141 322.0 50.8 76.2#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.59 min Scan# 3286

Delta R.T. -0.01 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

Instrument :

BNA\_G

ClientSampleId :

FK-BPM-01-E01-E01A-F01-F01A

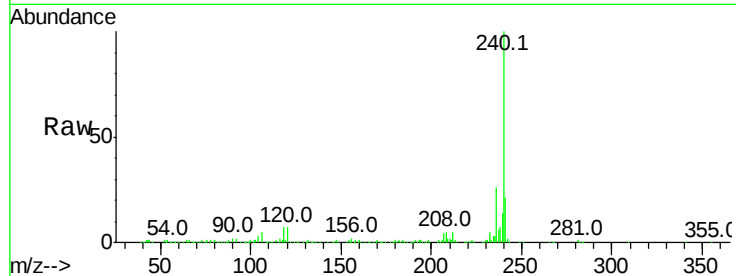
Tot Ion:240 Resp: 343144

Ion Ratio Lower Upper

240 100

120 7.4 6.8 10.2

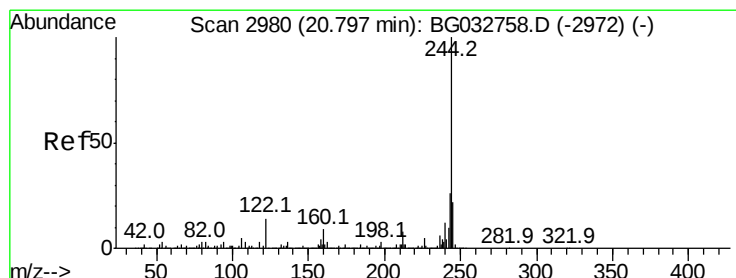
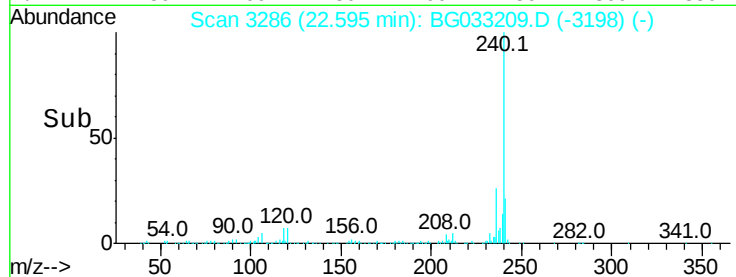
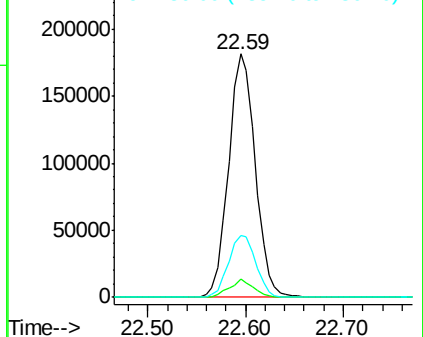
236 25.5 20.9 31.3



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: 70.868 ng

RT: 20.76 min Scan# 2974

Delta R.T. -0.00 min

Lab File: BG033209.D

Acq: 16 Mar 2018 21:09

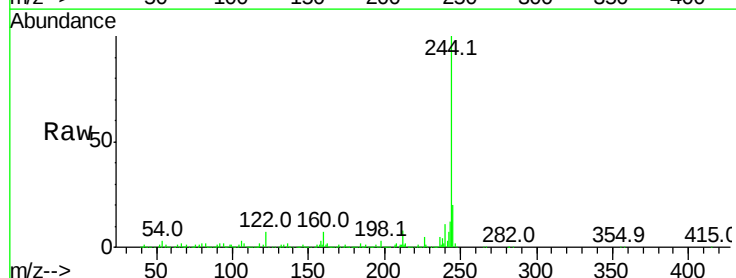
Tgt Ion:244 Resp: 1082364

Ion Ratio Lower Upper

244 100

212 8.1 5.8 8.8

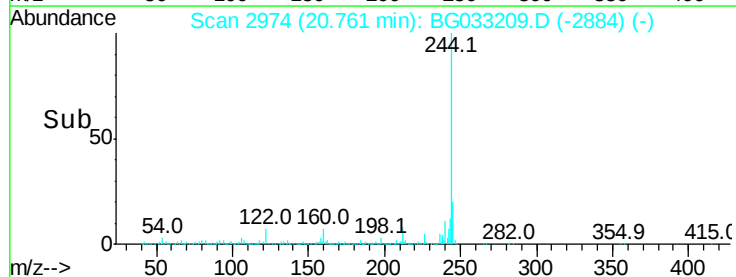
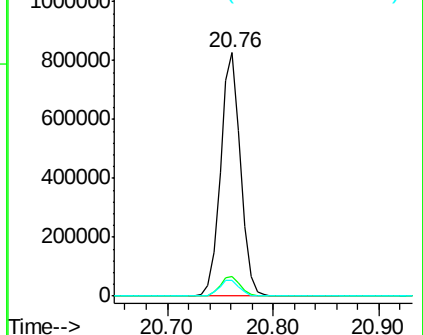
122 6.5 7.0 10.4#

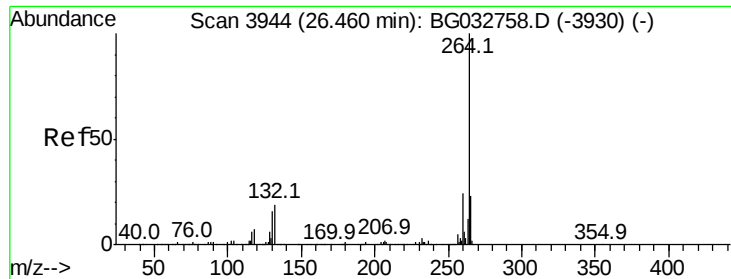


Abundance Ion 244.00 (243.70 to 244.70): E

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: 26.40 min Scan# 3933  
Delta R.T. -0.01 min  
Lab File: BG033209.D  
Acq: 16 Mar 2018 21:09

Instrument :  
BNA\_G  
ClientSampleId :  
FK-BPM-01-E01-E01A-F01-F01A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 17.4  | 26.0  |
| 265     | 20.2  | 17.7  | 26.5  |

