

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031618\  
 Data File : BG033227.D  
 Acq On : 17 Mar 2018 10:37  
 Operator : SJ/JU  
 Sample : J1945-04  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-A

Quant Time: Mar 19 02:26:45 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

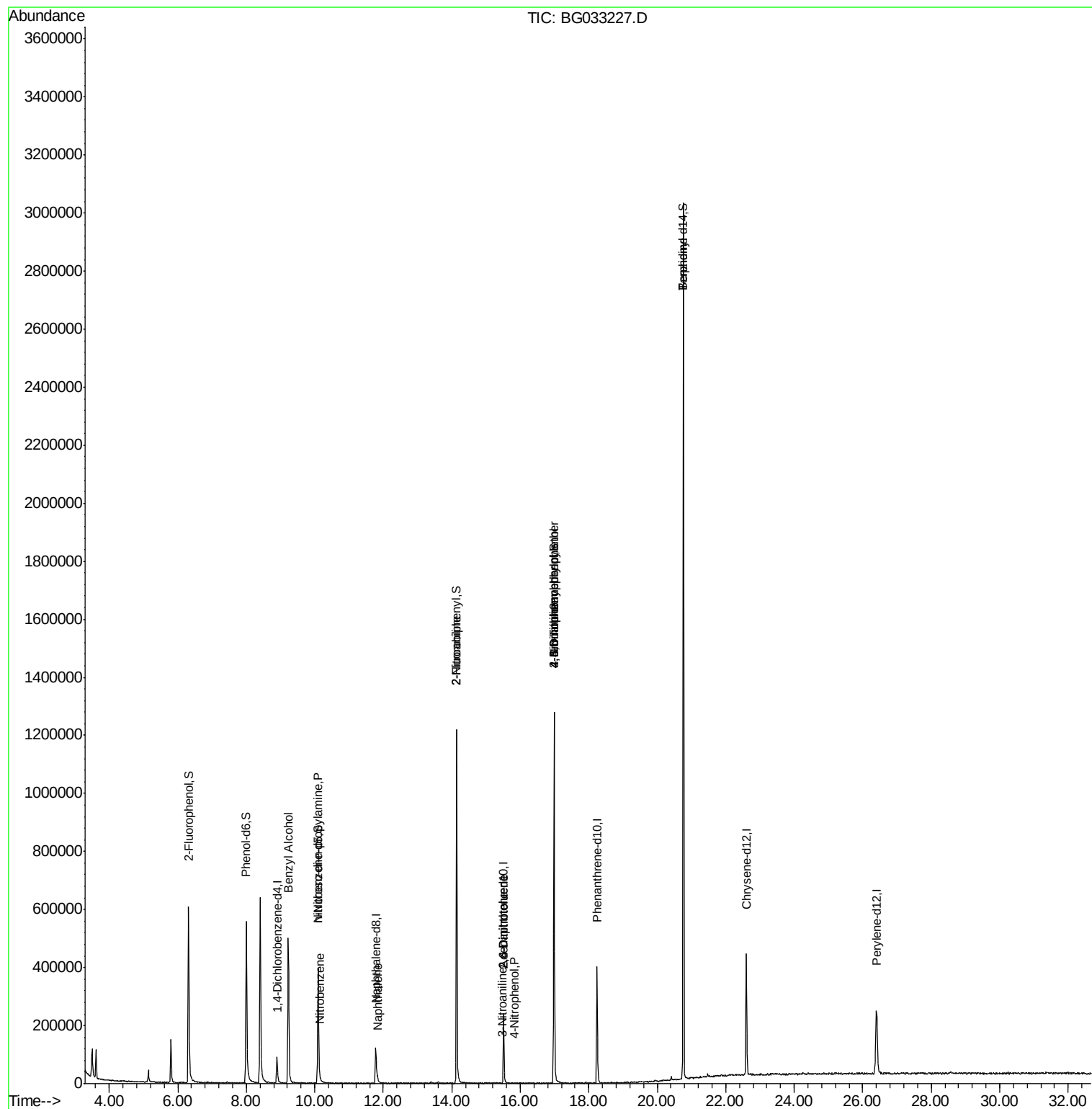
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.90  | 152  | 32238    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.78 | 136  | 126489   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 15.51 | 164  | 92784    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 18.24 | 188  | 276806   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.60 | 240  | 293262   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.40 | 264  | 303441   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.31  | 112  | 305542   | 151.63 | ng    | 0.00     |
| 7) Phenol-d6                   | 8.00  | 99   | 404310   | 143.95 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 10.10 | 82   | 316445   | 163.28 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.99 | 330  | 260140   | 266.65 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.14 | 172  | 707653   | 110.00 | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.76 | 244  | 1527482  | 117.02 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 9.23  | 79   | 4924     | 2.385  | ng    | # 40     |
| 19) n-Nitroso-di-n-propylamine | 10.10 | 70   | 42276    | 21.321 | ng    | # 71     |
| 24) Nitrobenzene               | 10.14 | 77   | 59       | 6.406  | ng    | # 42     |
| 31) Naphthalene                | 11.84 | 128  | 22596    | 3.419  | ng    | # 98     |
| 47) 2-Nitroaniline             | 14.15 | 65   | 1420     | 10.575 | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 15.51 | 165  | 10832    | 15.665 | ng    | # 18     |
| 52) 3-Nitroaniline             | 15.48 | 138  | 69       | 7.579  | ng    | # 1      |
| 55) 4-Nitrophenol              | 15.83 | 139  | 58       | 7.122  | ng    | # 59     |
| 56) 2,4-Dinitrotoluene         | 15.51 | 165  | 10832    | 13.856 | ng    | # 16     |
| 61) 4-Nitroaniline             | 16.99 | 138  | 56       | 5.329  | ng    | # 1      |
| 64) 4,6-Dinitro-2-methylphenol | 16.99 | 198  | 926      | 6.364  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 16.98 | 248  | 20567    | 7.027  | ng    | # 1      |
| 76) Benzidine                  | 20.76 | 184  | 24723    | 2.473  | ng    | # 90     |

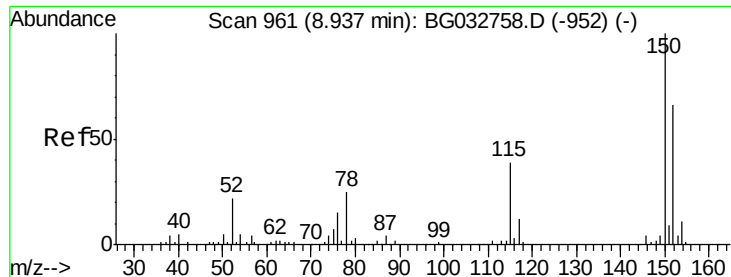
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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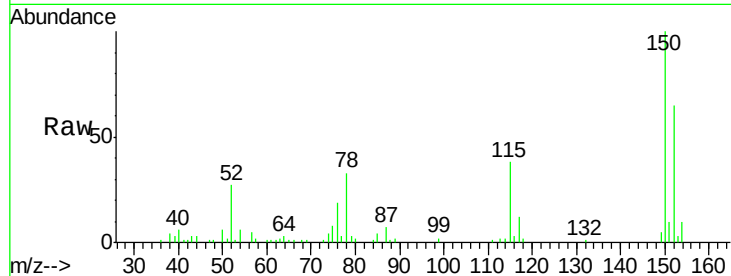


#1

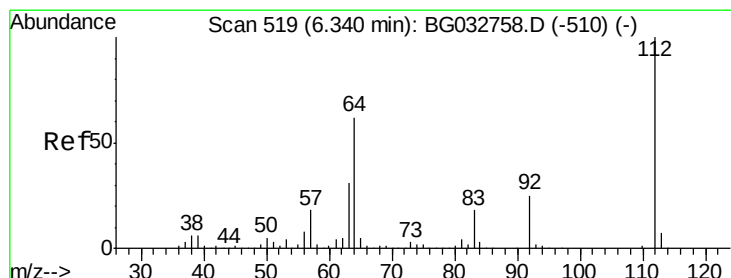
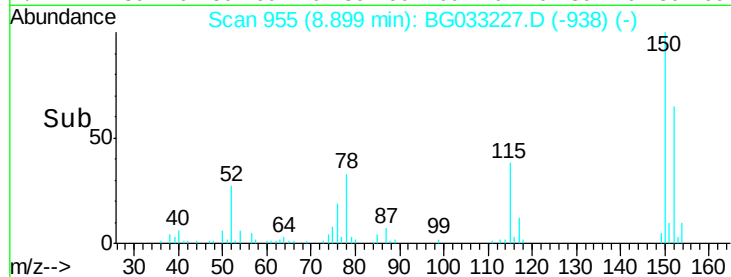
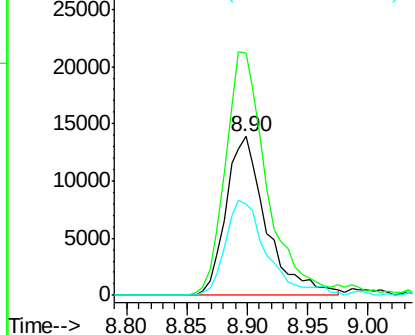
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.90 min Scan# 955  
Delta R.T. 0.00 min  
Lab File: BG033227.D  
Acq: 17 Mar 2018 10:37

Instrument :  
BNA\_G  
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SP-A

Tot Ion:152 Resp: 32238  
Ion Ratio Lower Upper  
152 100  
150 152.8 126.6 189.8  
115 57.8 53.0 79.4



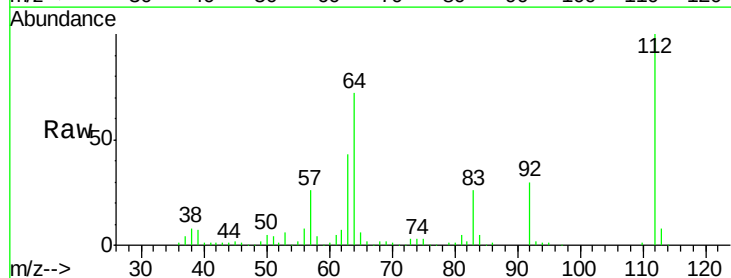
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



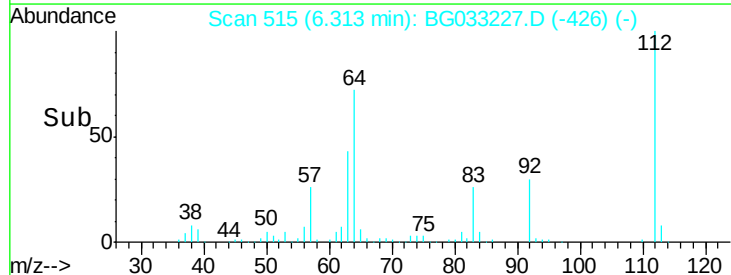
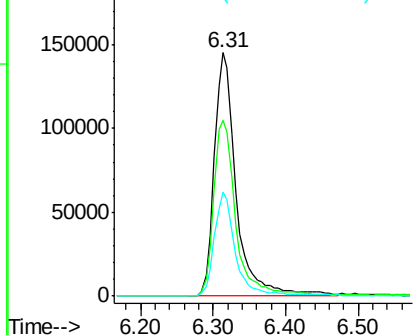
#5

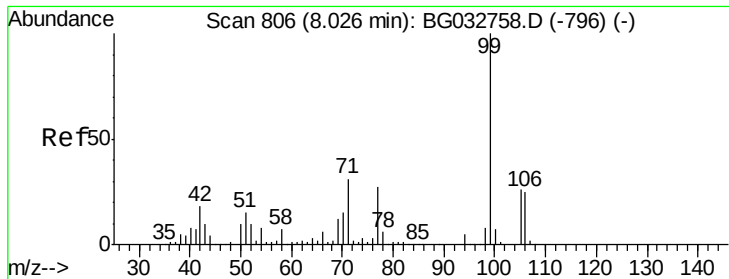
2-Fluorophenol  
Concen: 151.629 ng  
RT: 6.31 min Scan# 515  
Delta R.T. -0.01 min  
Lab File: BG033227.D  
Acq: 17 Mar 2018 10:37

Tgt Ion:112 Resp: 305542  
Ion Ratio Lower Upper  
112 100  
64 72.4 56.3 84.5  
63 42.8 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 143.949 ng

RT: 8.00 min Scan# 802

Delta R.T. -0.01 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

Instrument :

BNA\_G

ClientSampleId :

SP-A

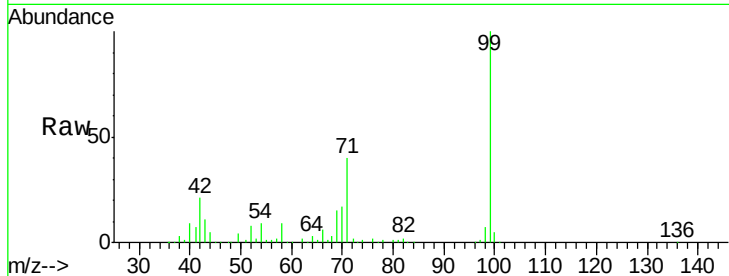
Tot Ion: 99 Resp: 404310

Ion Ratio Lower Upper

99 100

42 21.0 14.1 21.1

71 40.3 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

250000

200000

150000

100000

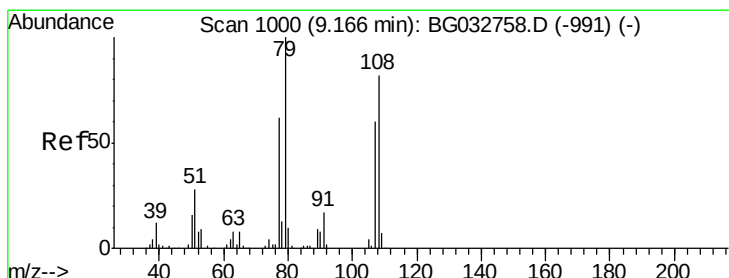
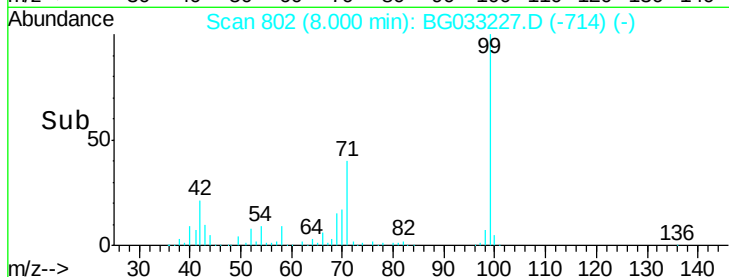
50000

0

8.00

7.90 8.00 8.10 8.20

Time-->



#15

Benzyl Alcohol

Concen: 2.385 ng

RT: 9.23 min Scan# 1012

Delta R.T. 0.10 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

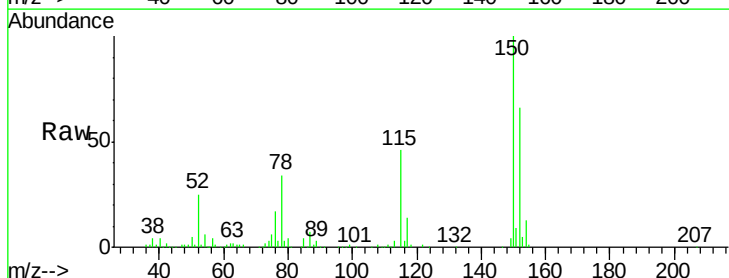
Tgt Ion: 79 Resp: 4924

Ion Ratio Lower Upper

79 100

108 25.7 57.2 85.8#

77 106.9 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

5000

4000

3000

2000

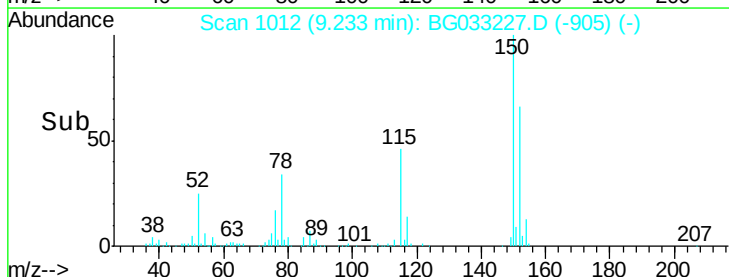
1000

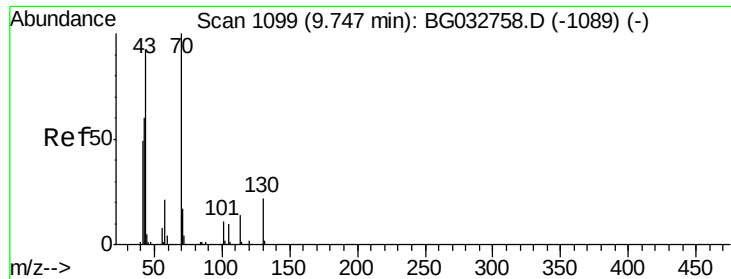
0

9.23

9.20 9.25

Time-->

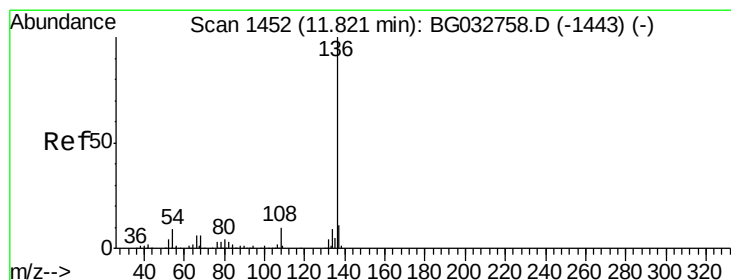
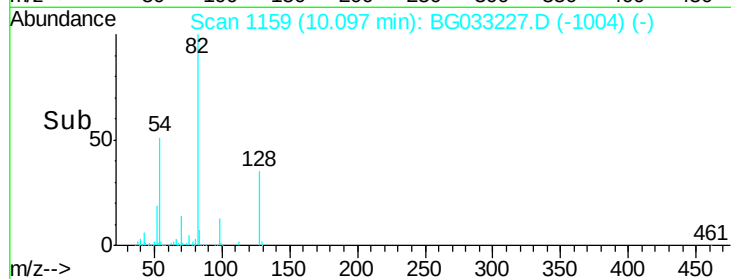
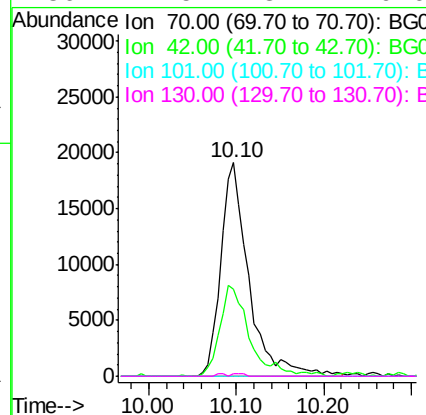
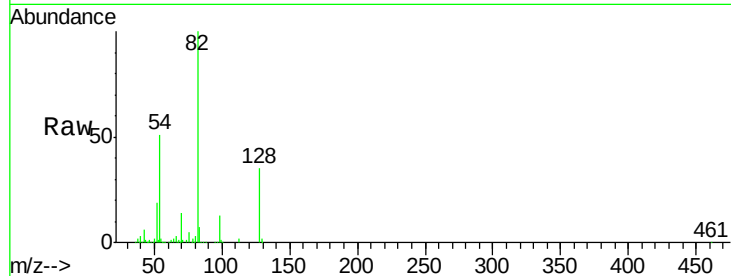




#19  
n-Nitroso-di-n-propylamine  
Concen: 21.321 ng  
RT: 10.10 min Scan# 1159  
Delta R.T. 0.38 min  
Lab File: BG033227.D  
Acq: 17 Mar 2018 10:37

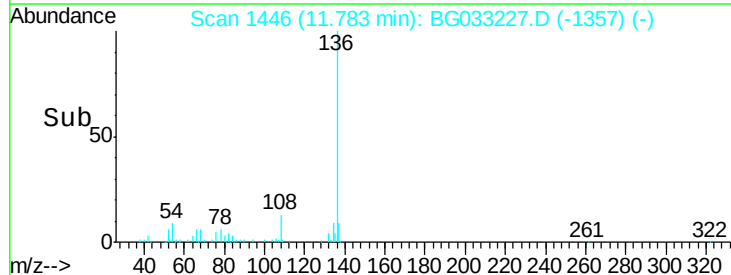
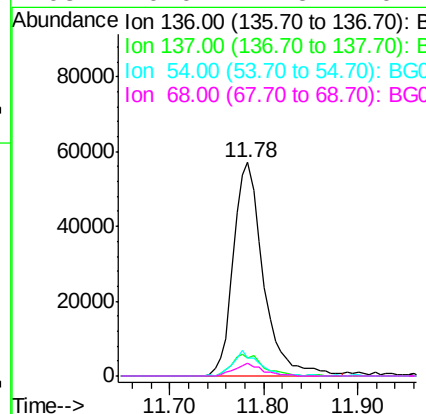
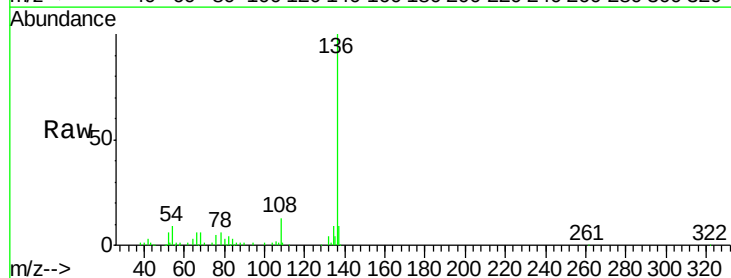
Instrument :  
BNA\_G  
ClientSampleId :  
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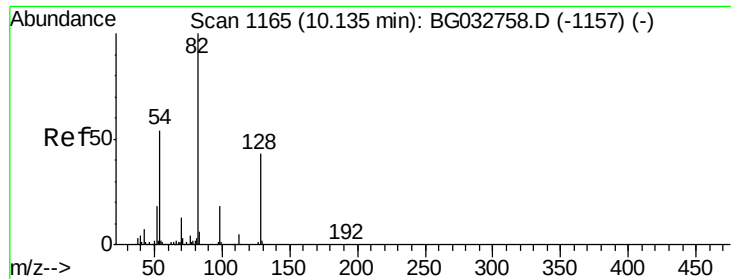
Tot Ion: 70 Resp: 42276  
Ion Ratio Lower Upper  
70 100  
42 40.6 49.1 73.7#  
101 0.0 8.5 12.7#  
130 1.5 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.78 min Scan# 1446  
Delta R.T. -0.00 min  
Lab File: BG033227.D  
Acq: 17 Mar 2018 10:37

Tgt Ion: 136 Resp: 126489  
Ion Ratio Lower Upper  
136 100  
137 8.6 9.2 13.8#  
54 8.6 10.3 15.5#  
68 6.0 4.5 6.7





#23

Nitrobenzene-d5

Concen: 163.276 ng

RT: 10.10 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

Instrument :

BNA\_G

ClientSampleId :

SP-A

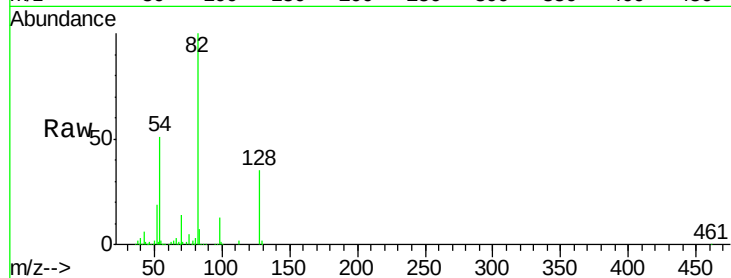
Tot Ion: 82 Resp: 316445

Ion Ratio Lower Upper

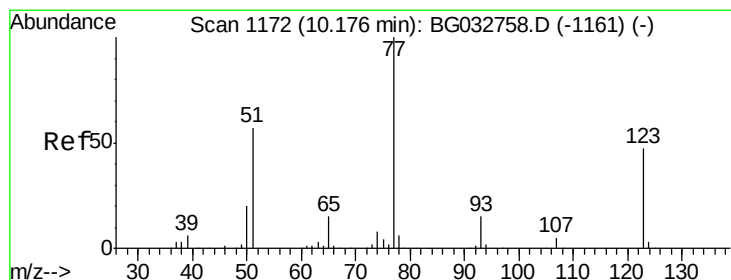
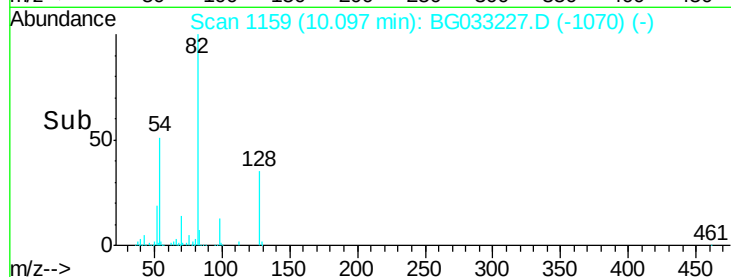
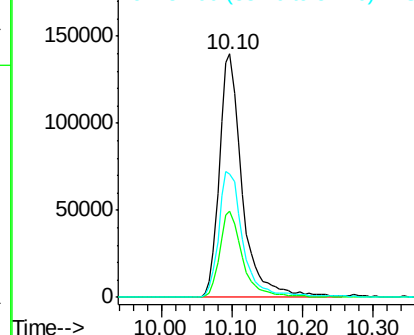
82 100

128 35.2 29.7 44.5

54 50.6 43.1 64.7



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC



#24

Nitrobenzene

Concen: 6.406 ng

RT: 10.14 min Scan# 1166

Delta R.T. -0.00 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

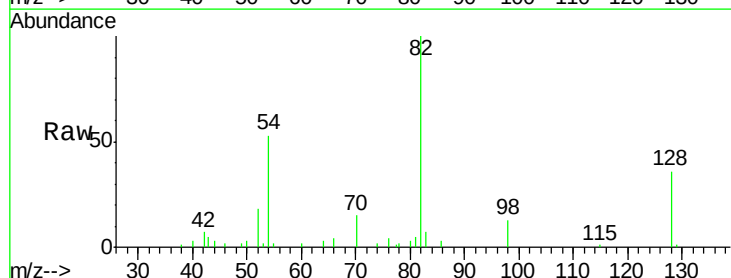
Tgt Ion: 77 Resp: 59

Ion Ratio Lower Upper

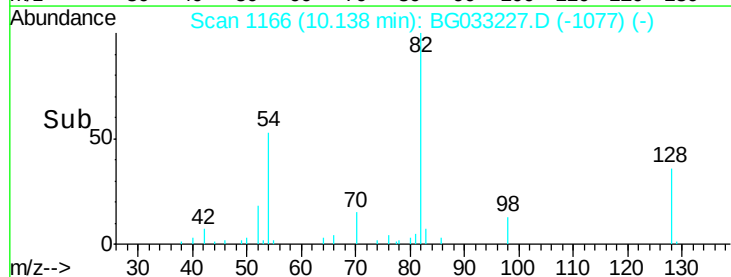
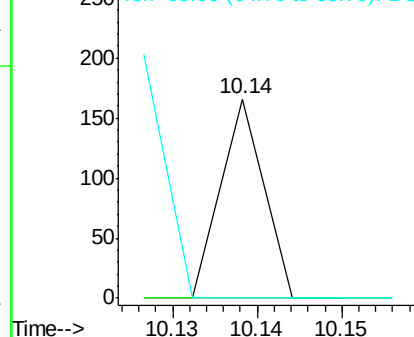
77 100

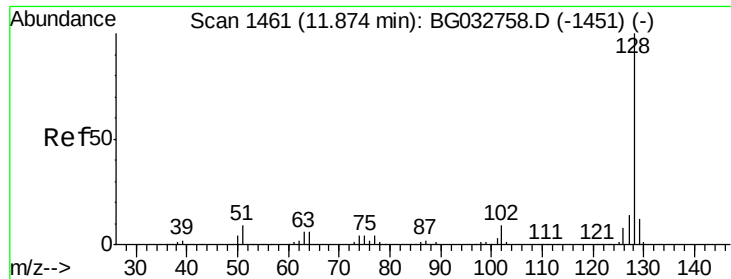
123 0.0 33.0 49.6#

65 0.0 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

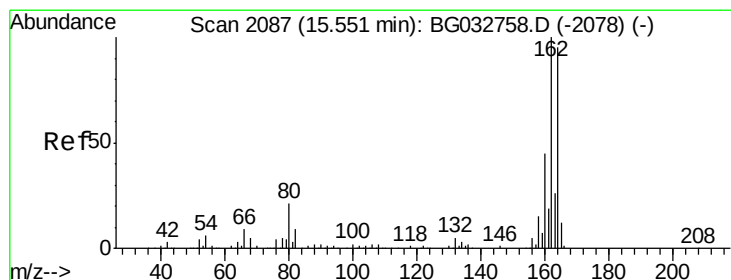
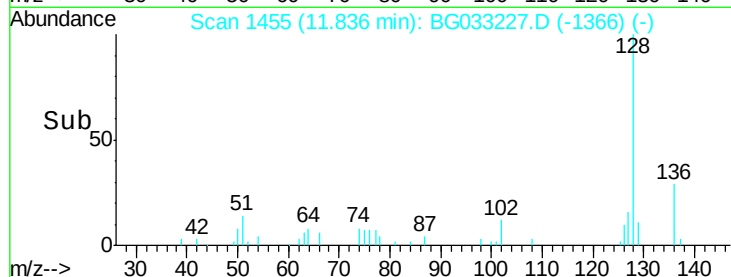
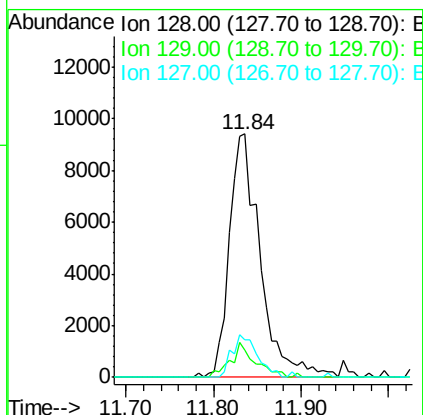
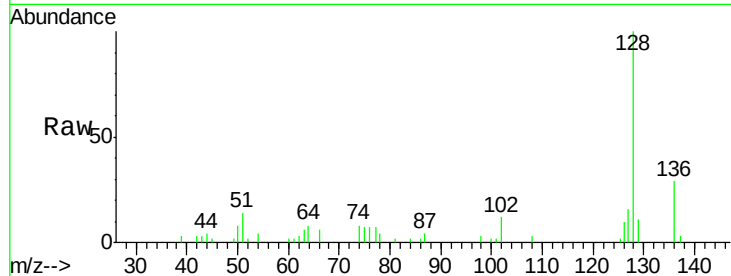




#31  
Naphthalene  
Concen: 3.419 ng  
RT: 11.84 min Scan# 1455  
Delta R.T. -0.00 min  
Lab File: BG033227.D  
Acq: 17 Mar 2018 10:37

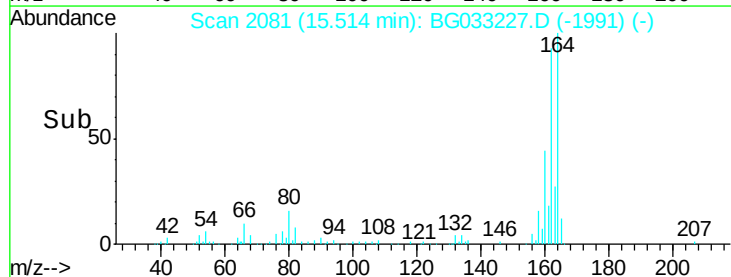
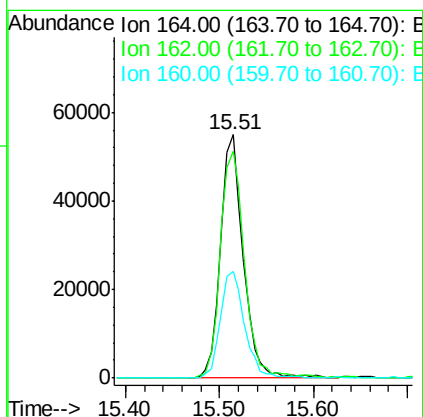
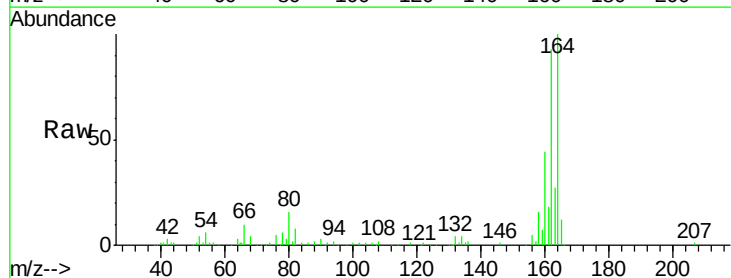
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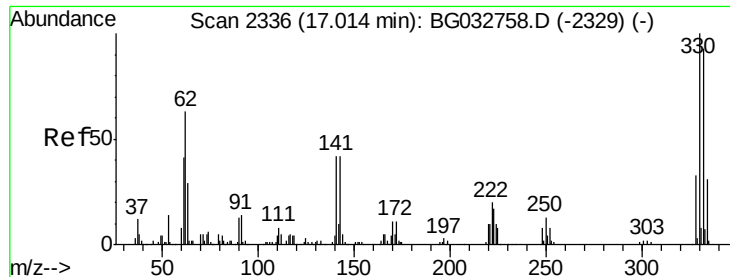
Tot Ion:128 Resp: 22596  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.6 12.8  
127 15.6 11.6 17.4



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.51 min Scan# 2081  
Delta R.T. -0.00 min  
Lab File: BG033227.D  
Acq: 17 Mar 2018 10:37

Tgt Ion:164 Resp: 92784  
Ion Ratio Lower Upper  
164 100  
162 93.4 78.8 118.2  
160 43.7 35.4 53.0

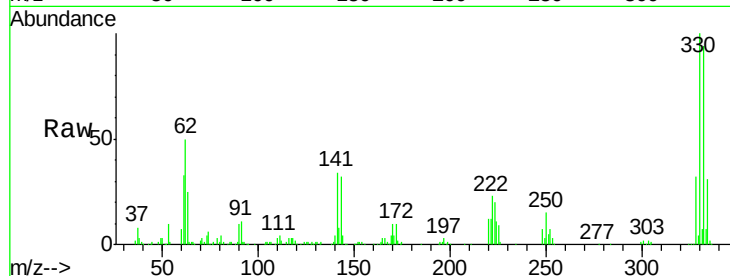




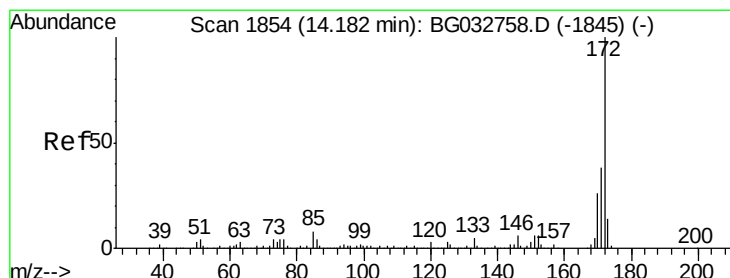
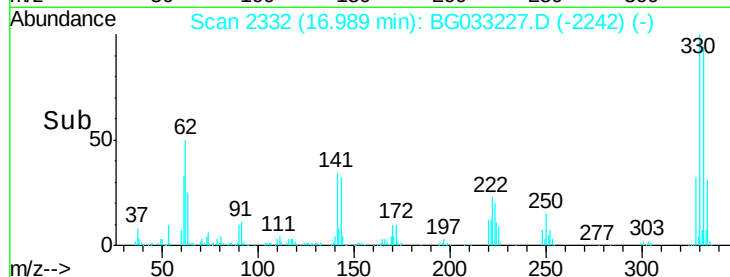
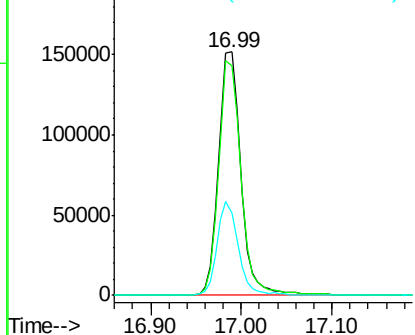
#41  
 2,4,6-Tribromophenol  
 Concen: 266.648 ng  
 RT: 16.99 min Scan# 2332  
 Delta R.T. -0.00 min  
 Lab File: BG033227.D  
 Acq: 17 Mar 2018 10:37

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-A

Tot Ion:330 Resp: 260140  
 Ion Ratio Lower Upper  
 330 100  
 332 95.4 77.0 115.6  
 141 36.3 25.2 37.8

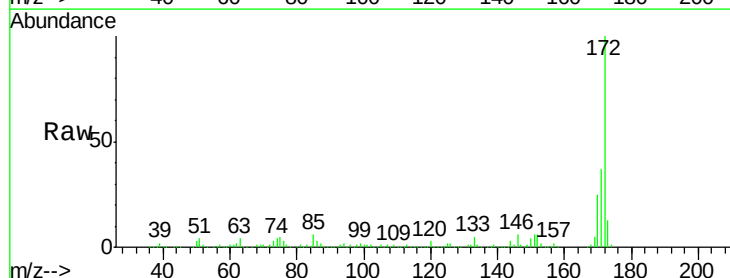


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

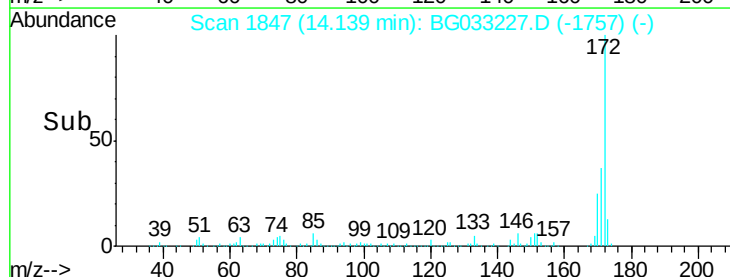
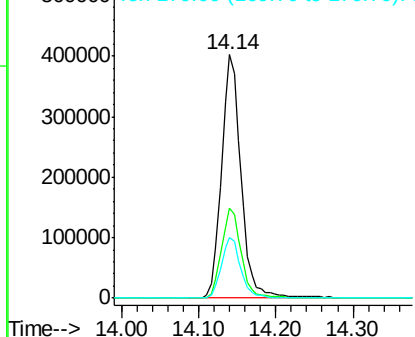


#44  
 2-Fluorobiphenyl  
 Concen: 109.999 ng  
 RT: 14.14 min Scan# 1847  
 Delta R.T. -0.00 min  
 Lab File: BG033227.D  
 Acq: 17 Mar 2018 10:37

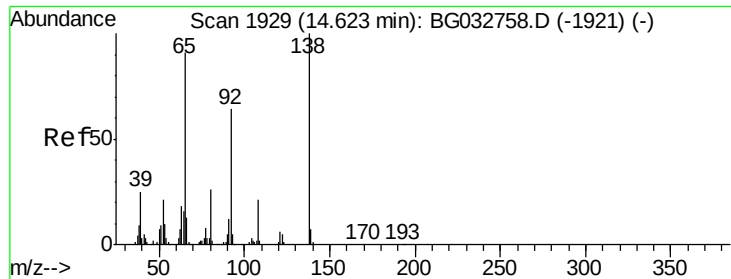
Tgt Ion:172 Resp: 707653  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 30.0 45.0  
 170 24.9 19.5 29.3



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







#47

2-Nitroaniline

Concen: 10.575 ng

RT: 14.15 min Scan# 1848

Delta R.T. -0.46 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

Instrument :

BNA\_G

ClientSampled :

SP-A

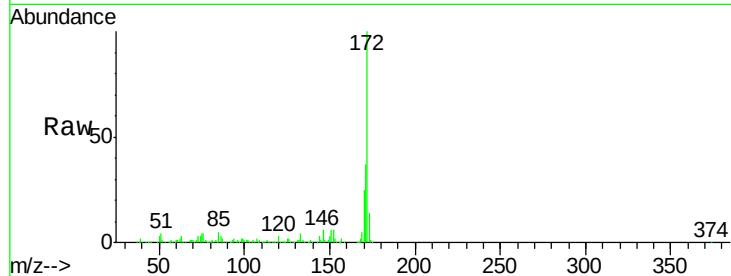
Tot Ion: 65 Resp: 1420

Ion Ratio Lower Upper

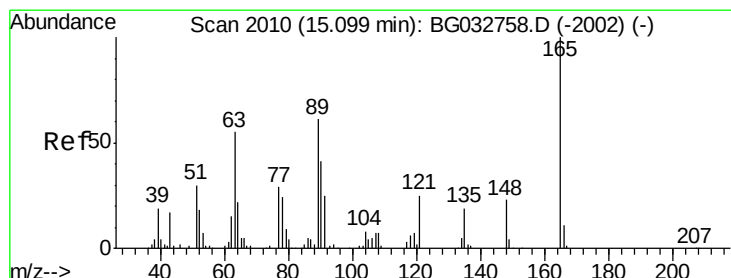
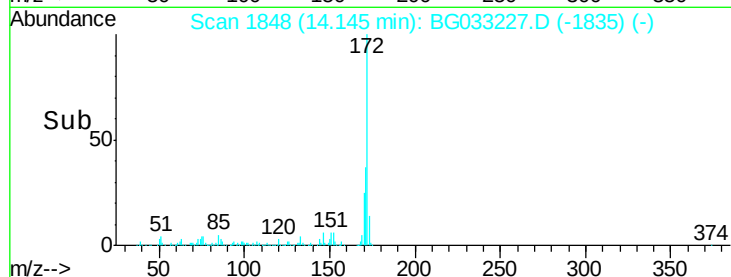
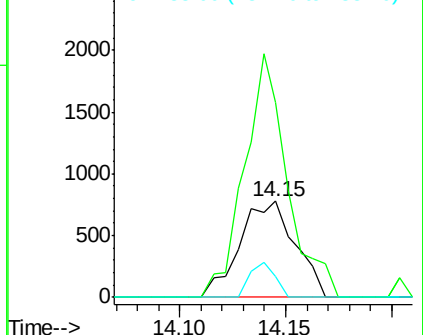
65 100

92 203.0 54.6 82.0#

138 21.3 72.9 109.3#



Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#50

2,6-Dinitrotoluene

Concen: 15.665 ng

RT: 15.51 min Scan# 2081

Delta R.T. 0.44 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

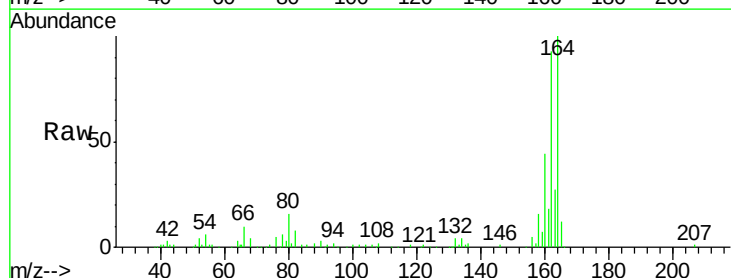
Tgt Ion:165 Resp: 10832

Ion Ratio Lower Upper

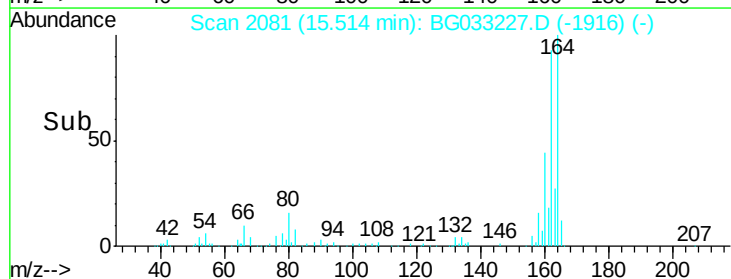
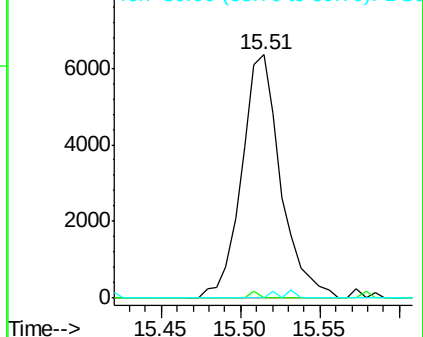
165 100

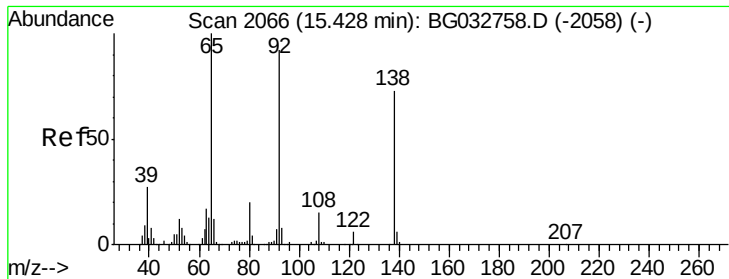
63 0.0 52.7 79.1#

89 0.0 49.2 73.8#



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





#52

3-Nitroaniline

Concen: 7.579 ng

RT: 15.48 min Scan# 2075

Delta R.T. 0.07 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

Instrument :

BNA\_G

ClientSampleId :

SP-A

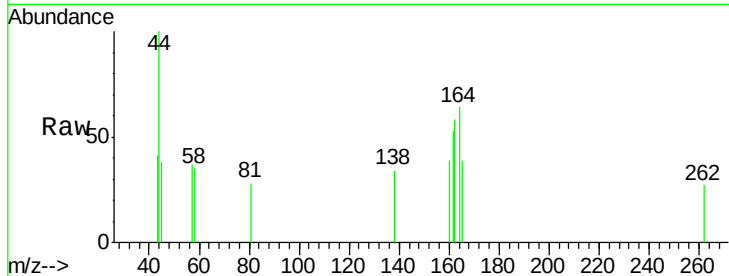
Tot Ion:138 Resp: 69

Ion Ratio Lower Upper

138 100

108 0.0 17.5 26.3#

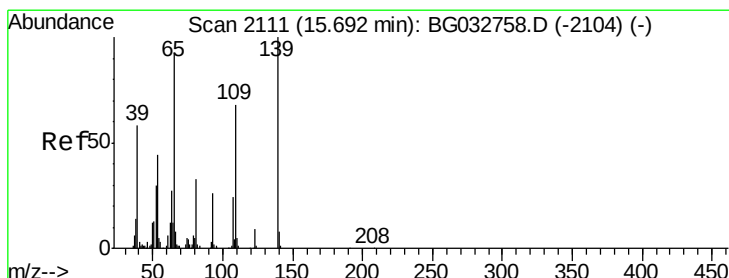
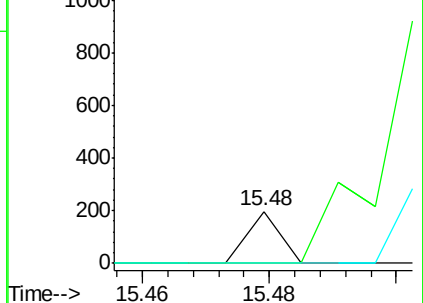
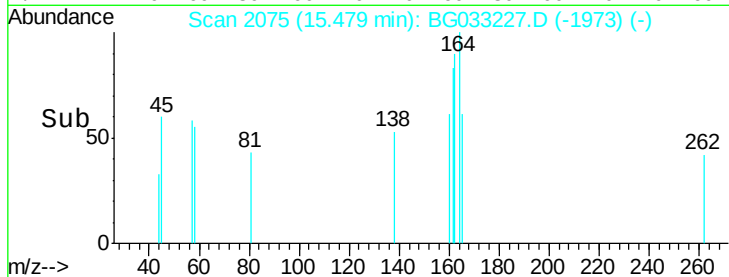
92 0.0 105.8 158.8#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC



#55

4-Nitrophenol

Concen: 7.122 ng

RT: 15.83 min Scan# 2135

Delta R.T. 0.14 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

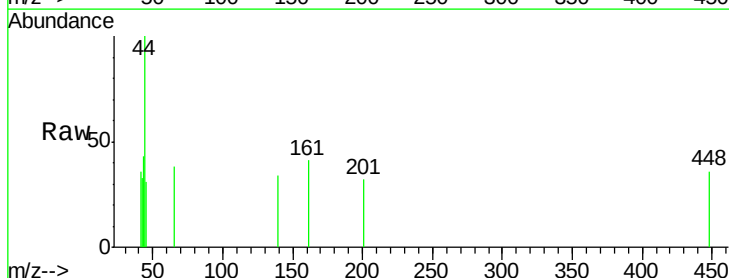
Tgt Ion:139 Resp: 58

Ion Ratio Lower Upper

139 100

109 0.0 62.2 102.2#

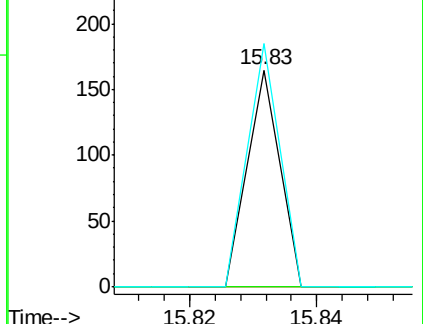
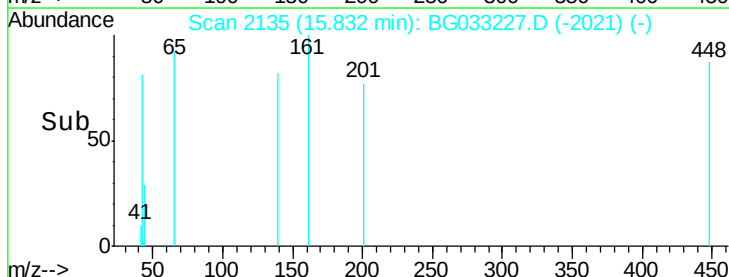
65 112.1 97.2 137.2

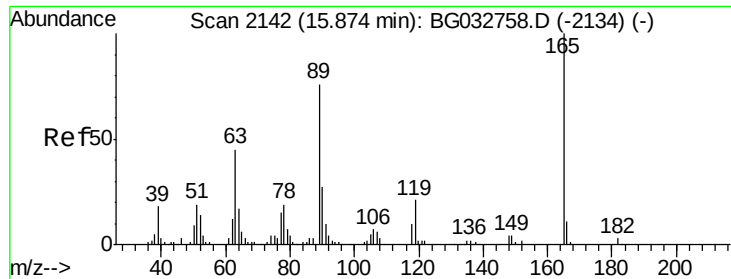


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC

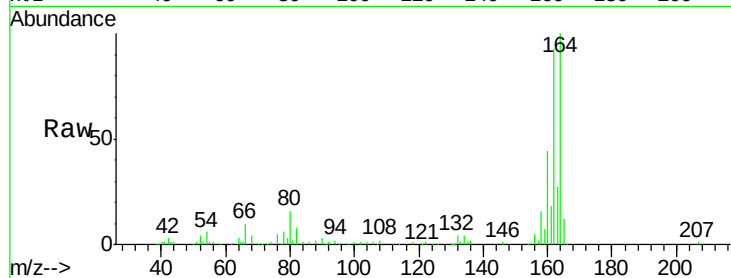




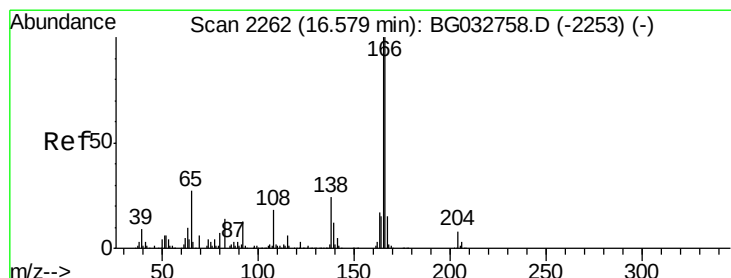
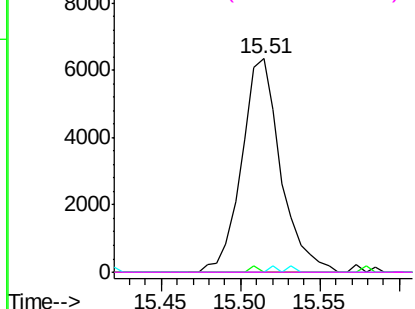
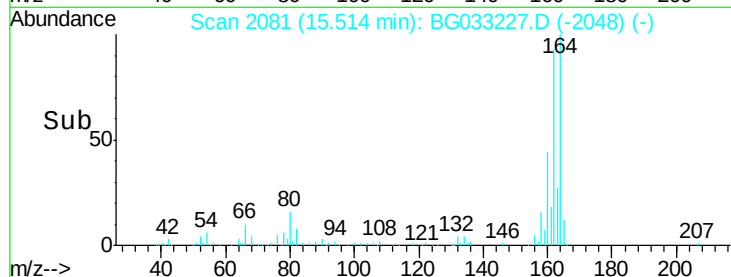
#56  
 2,4-Dinitrotoluene  
 Concen: 13.856 ng  
 RT: 15.51 min Scan# 2081  
 Delta R.T. -0.34 min  
 Lab File: BG033227.D  
 Acq: 17 Mar 2018 10:37

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-A

Tot Ion:165 Resp: 10832  
 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#

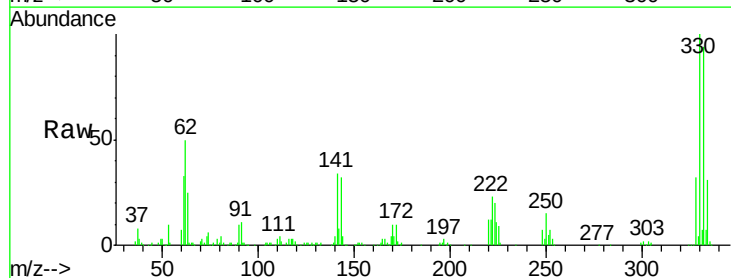


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BG  
 Ion 89.00 (88.70 to 89.70): BG  
 Ion 182.00 (181.70 to 182.70): E

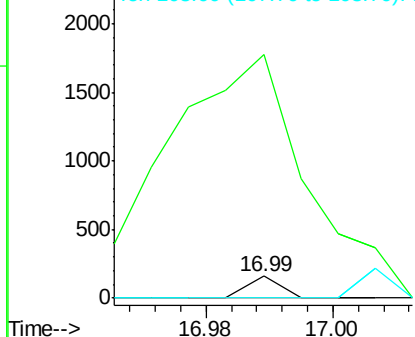
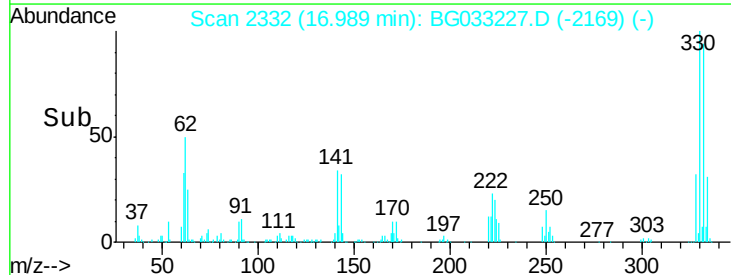


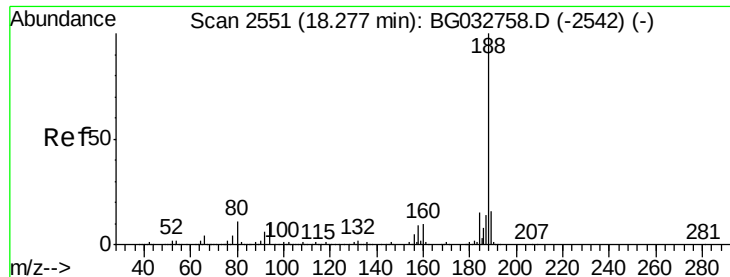
#61  
 4-Nitroaniline  
 Concen: 5.329 ng  
 RT: 16.99 min Scan# 2332  
 Delta R.T. 0.43 min  
 Lab File: BG033227.D  
 Acq: 17 Mar 2018 10:37

Tgt Ion:138 Resp: 56  
 Ion Ratio Lower Upper  
 138 100  
 92 1109.4 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): BG  
 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: BG033227.D

Acq: 17 Mar 2018 10:37

Instrument :

BNA\_G

ClientSampleId :

SP-A

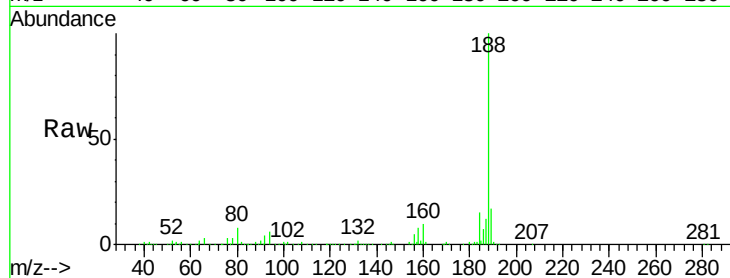
Tot Ion:188 Resp: 276806

Ion Ratio Lower Upper

188 100

94 6.3 6.9 10.3#

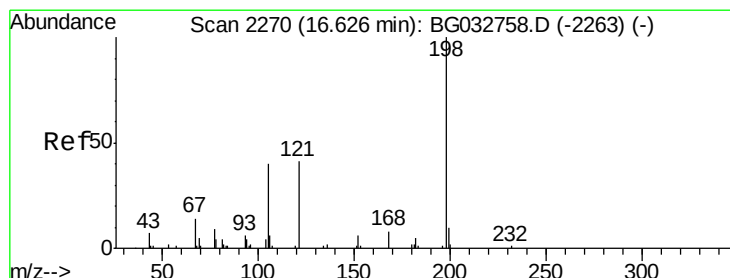
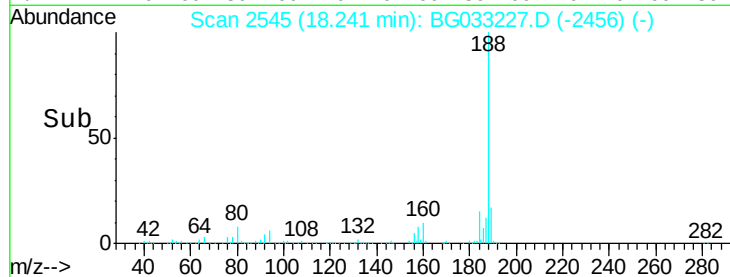
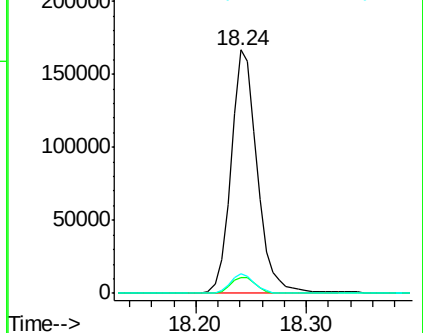
80 8.3 7.7 11.5



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: 6.364 ng

RT: 16.99 min Scan# 2332

Delta R.T. 0.38 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

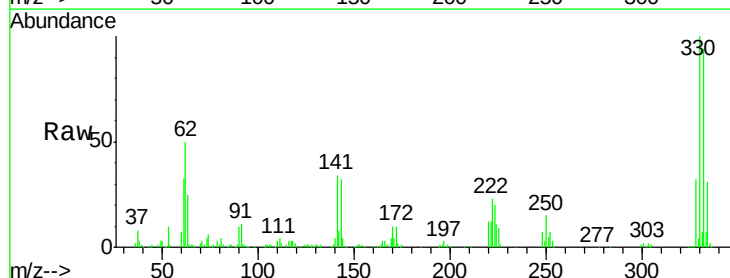
Tgt Ion:198 Resp: 926

Ion Ratio Lower Upper

198 100

51 103.0 30.6 70.6#

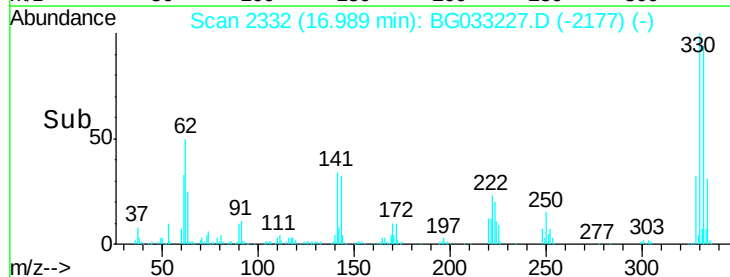
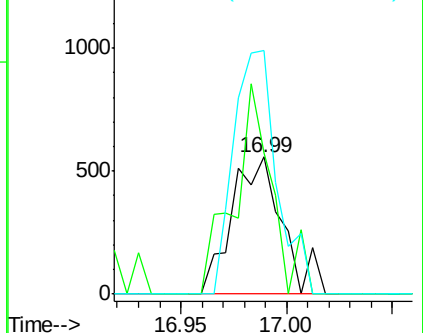
105 177.4 23.8 63.8#

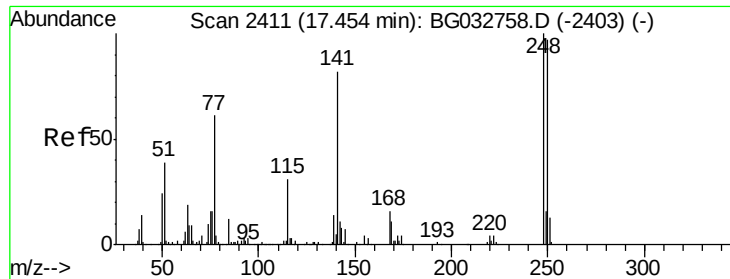


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

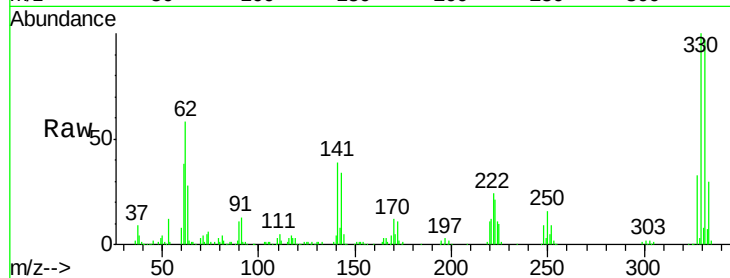




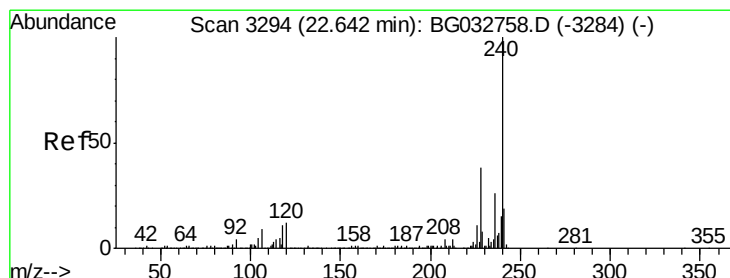
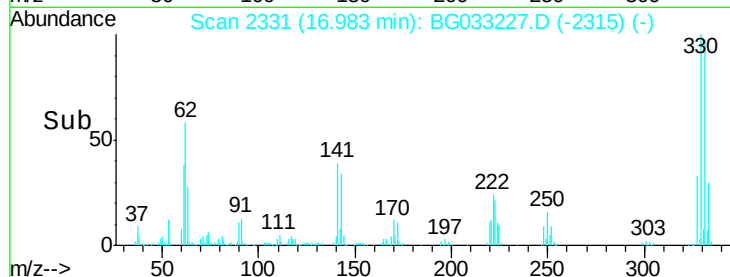
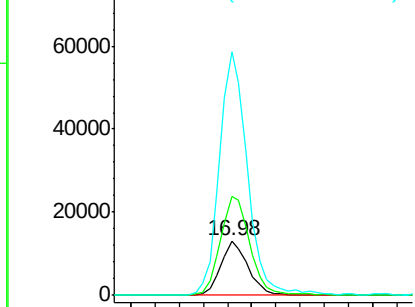
#66  
 4-Bromophenyl-phenylether  
 Concen: 7.027 ng  
 RT: 16.98 min Scan# 2331  
 Delta R.T. -0.44 min  
 Lab File: BG033227.D  
 Acq: 17 Mar 2018 10:37

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-A

Tot Ion:248 Resp: 20567  
 Ion Ratio Lower Upper  
 248 100  
 250 181.4 77.1 115.7#  
 141 445.8 50.8 76.2#

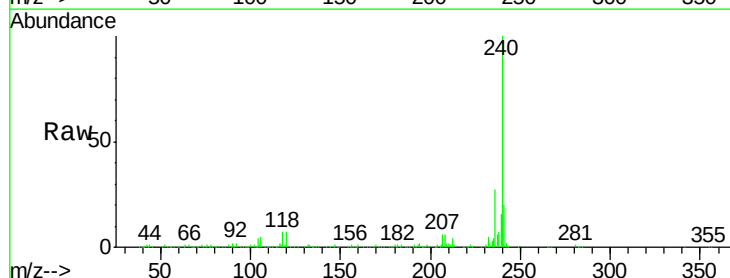


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

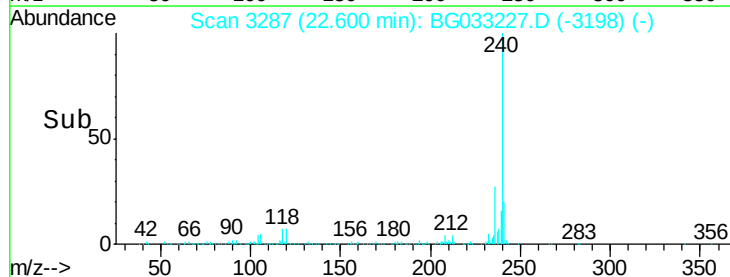
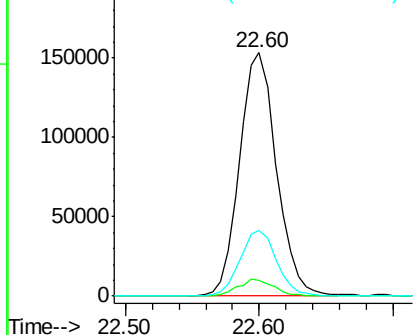


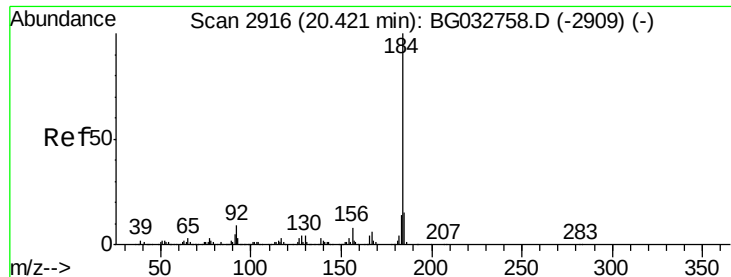
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.60 min Scan# 3287  
 Delta R.T. -0.01 min  
 Lab File: BG033227.D  
 Acq: 17 Mar 2018 10:37

Tgt Ion:240 Resp: 293262  
 Ion Ratio Lower Upper  
 240 100  
 120 6.6 6.8 10.2#  
 236 26.8 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





#76

Benzidine

Concen: 2.473 ng

RT: 20.76 min Scan# 2974

Delta R.T. 0.36 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

Instrument :

BNA\_G

ClientSampleId :

SP-A

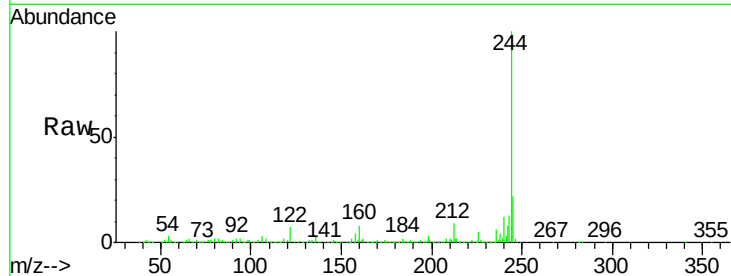
Tot Ion:184 Resp: 24723

Ion Ratio Lower Upper

184 100

185 17.7 11.1 16.7#

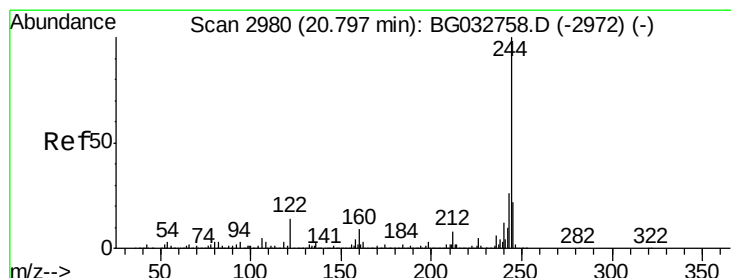
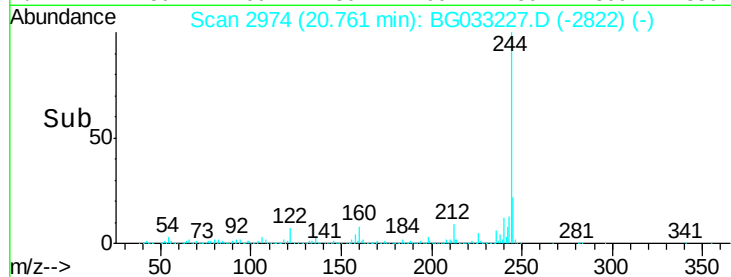
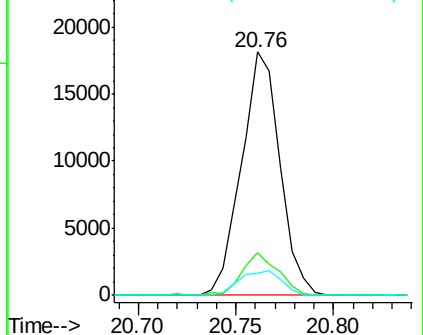
183 9.0 10.6 16.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 117.023 ng

RT: 20.76 min Scan# 2974

Delta R.T. -0.00 min

Lab File: BG033227.D

Acq: 17 Mar 2018 10:37

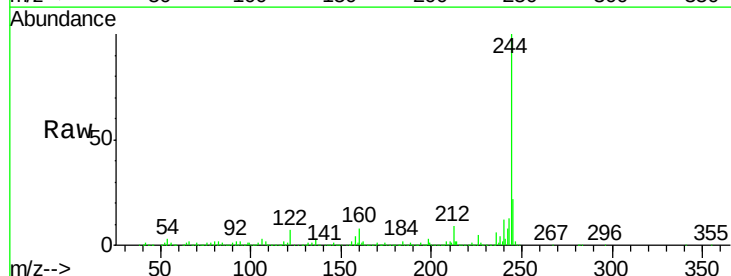
Tgt Ion:244 Resp: 1527482

Ion Ratio Lower Upper

244 100

212 8.7 5.8 8.8

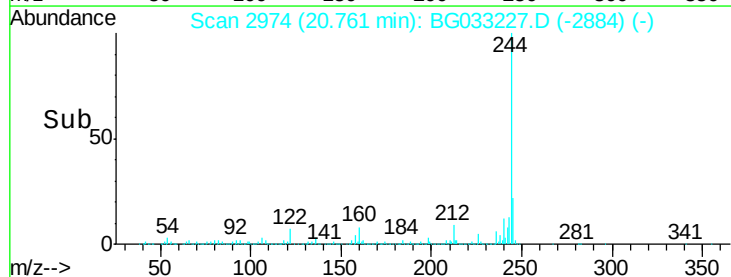
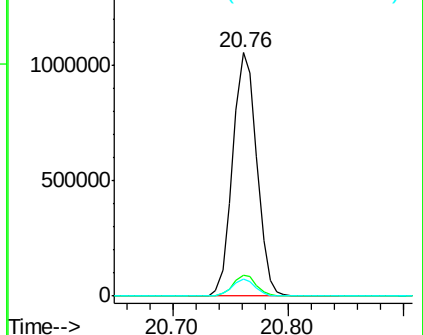
122 7.3 7.0 10.4

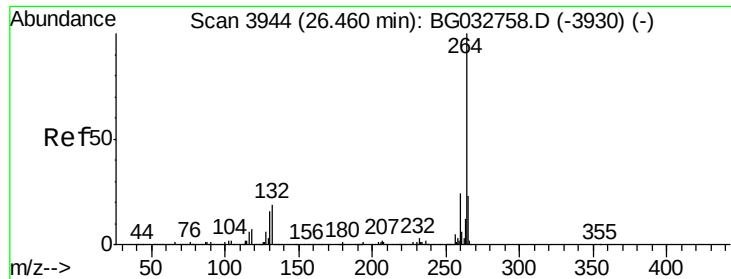


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

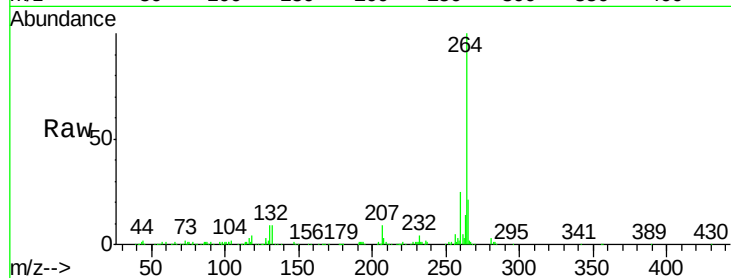




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.40 min Scan# 3933  
Delta R.T. -0.01 min  
Lab File: BG033227.D  
Acq: 17 Mar 2018 10:37

Instrument :  
BNA\_G  
ClientSampleId :  
SP-A

Tot Ion:264 Resp: 303441  
Ion Ratio Lower Upper  
264 100  
260 25.0 17.4 26.0  
265 20.8 17.7 26.5



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

