

Data Path : Z:\HPCHEM1\BNA G\DATA\BG031418\  
 Data File : BG033167.D  
 Acq On : 15 Mar 2018 5:45  
 Operator : SJ/JU  
 Sample : J1754-06  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 15 06:29:21 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  | 37638    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.78 | 136  | 169332   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.51 | 164  | 103577   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.24 | 188  | 254912   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.60 | 240  | 250469   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.40 | 264  | 265102   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.32  | 112  | 350309   | 148.90 | ng    | 0.00     |
| 7) Phenol-d6                | 8.01  | 99   | 420097   | 128.11 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 10.10 | 82   | 322692   | 126.74 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.99 | 330  | 258144   | 237.03 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.14 | 172  | 741553   | 103.26 | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.76 | 244  | 1299678  | 116.58 | ng    | 0.00     |

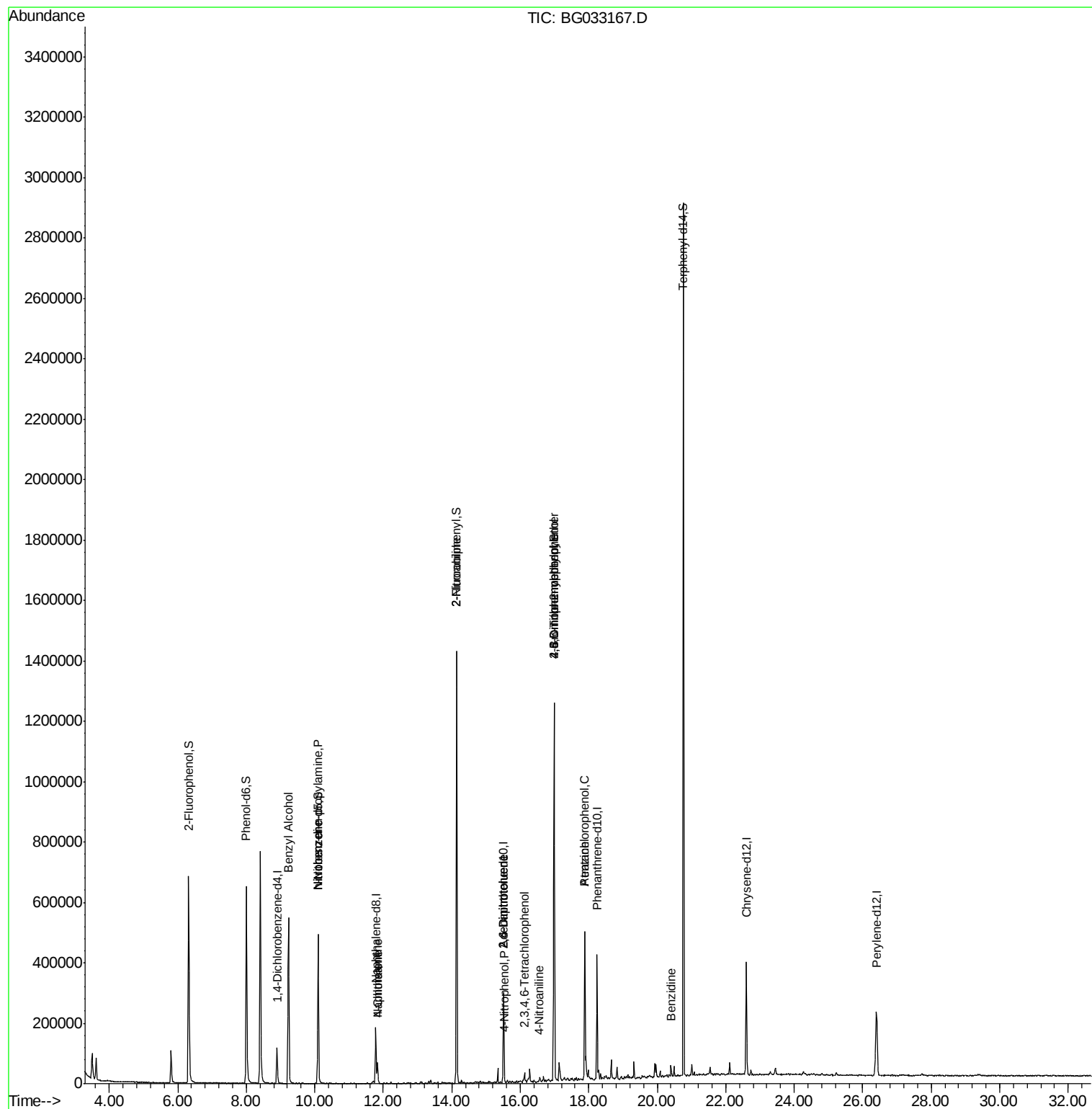
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 15) Benzyl Alcohol             | 9.23  | 79   | 4997     | 2.073  | ng    | # 37   |
| 19) n-Nitroso-di-n-propylamine | 10.10 | 70   | 43453    | 18.770 | ng    | # 84   |
| 24) Nitrobenzene               | 10.10 | 77   | 1051     | 6.718  | ng    | # 44   |
| 31) Naphthalene                | 11.84 | 128  | 60660    | 6.856  | ng    | # 97   |
| 33) 4-Chloroaniline            | 11.84 | 127  | 8681     | 2.194  | ng    | # 36   |
| 47) 2-Nitroaniline             | 14.14 | 65   | 1533     | 10.551 | ng    | # 12   |
| 50) 2,6-Dinitrotoluene         | 15.51 | 165  | 13443    | 16.421 | ng    | # 20   |
| 55) 4-Nitrophenol              | 15.55 | 139  | 59       | 7.118  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.51 | 165  | 13443    | 14.619 | ng    | # 18   |
| 58) 2,3,4,6-Tetrachlorophenol  | 16.12 | 232  | 8542     | 4.902  | ng    | # 93   |
| 61) 4-Nitroaniline             | 16.55 | 138  | 65       | 5.330  | ng    | # 12   |
| 64) 4,6-Dinitro-2-methylphenol | 16.99 | 198  | 845      | 6.351  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 16.99 | 248  | 17032    | 6.319  | ng    | # 1    |
| 68) Atrazine                   | 17.88 | 200  | 18410    | 6.744  | ng    | # 35   |
| 69) Pentachlorophenol          | 17.89 | 266  | 97531    | 53.158 | ng    | # 98   |
| 76) Benzidine                  | 20.40 | 184  | 21575    | 2.527  | ng    | # 99   |

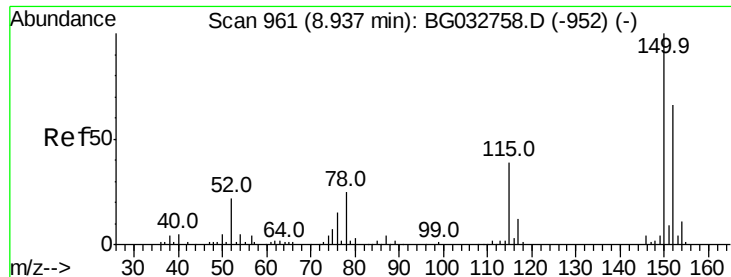
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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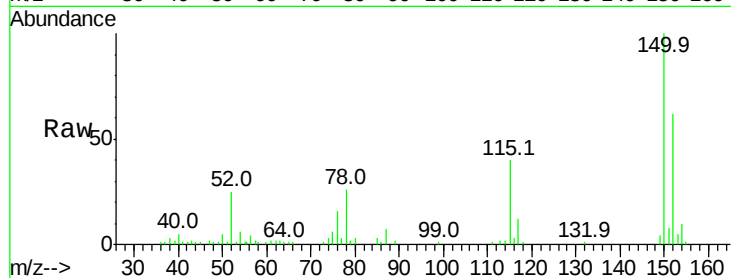


#1

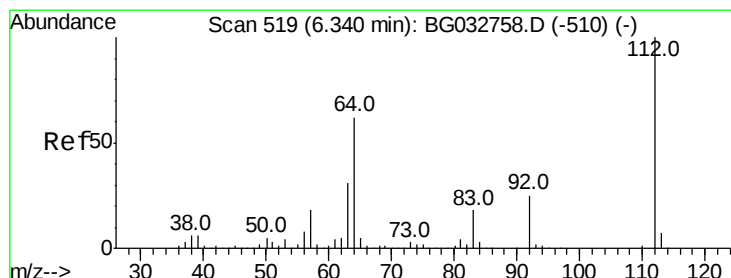
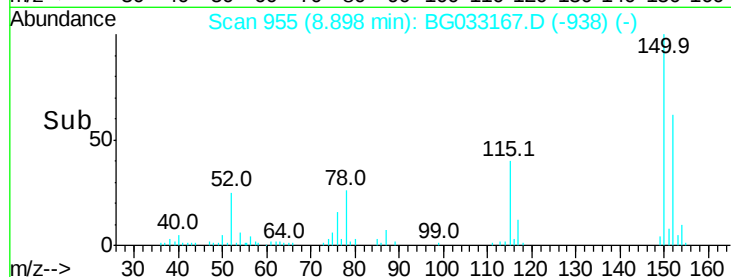
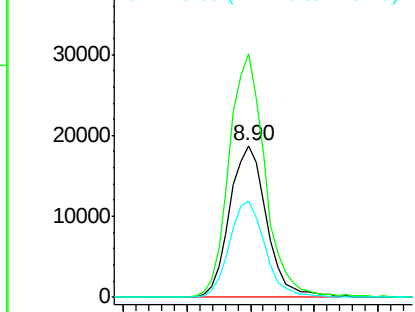
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.90 min Scan# 955  
Delta R.T. 0.00 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 37638  
Ion Ratio Lower Upper  
152 100  
150 160.2 126.6 189.8  
115 63.6 53.0 79.4



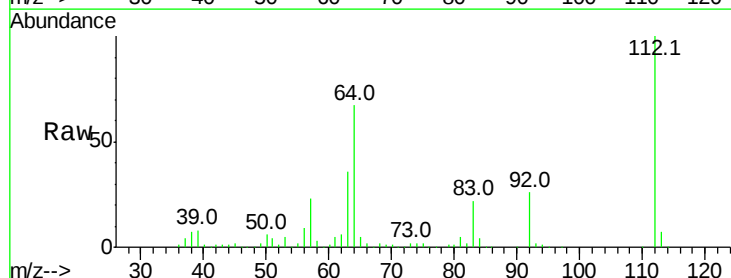
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



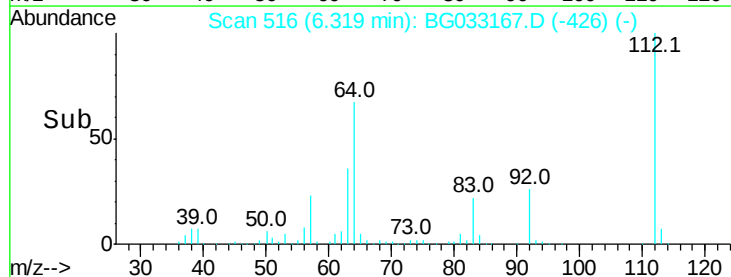
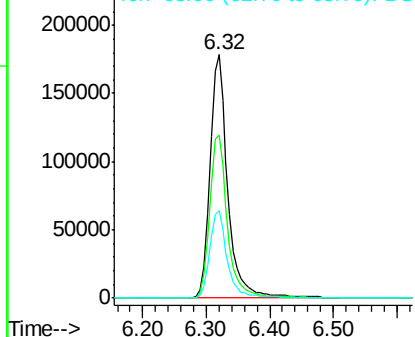
#5

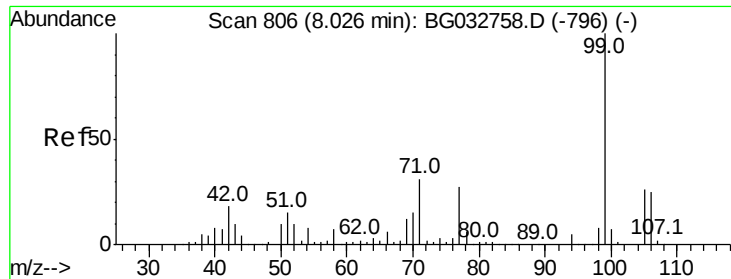
2-Fluorophenol  
Concen: 148.904 ng  
RT: 6.32 min Scan# 516  
Delta R.T. 0.00 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

Tgt Ion:112 Resp: 350309  
Ion Ratio Lower Upper  
112 100  
64 66.7 56.3 84.5  
63 35.9 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: 128.110 ng

RT: 8.01 min Scan# 803

Delta R.T. -0.01 min

Lab File: BG033167.D

Acq: 15 Mar 2018 5:45

Instrument :

BNA\_F

ClientSampled :

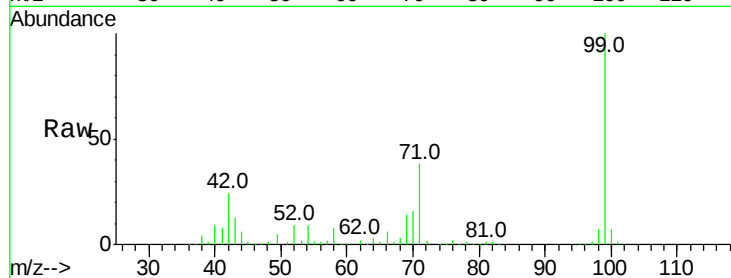
Tot Ion: 99 Resp: 420097

Ion Ratio Lower Upper

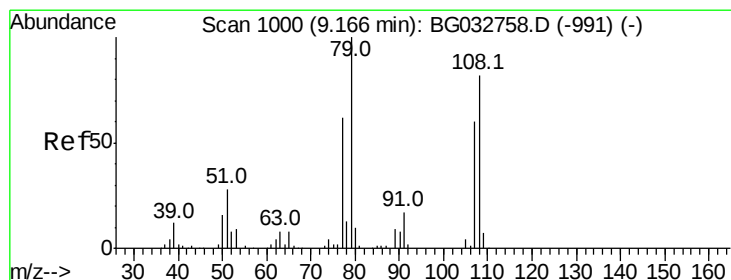
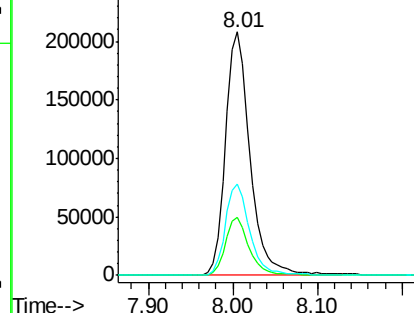
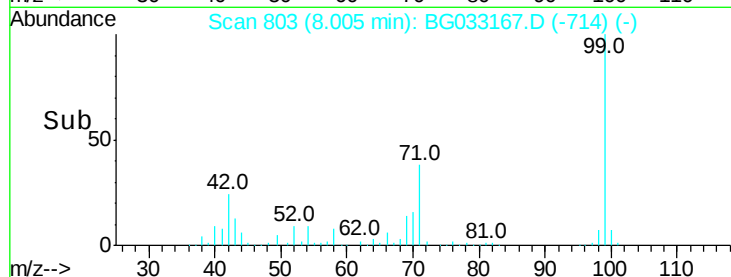
99 100

42 23.6 14.1 21.1#

71 37.6 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



#15

Benzyl Alcohol

Concen: 2.073 ng

RT: 9.23 min Scan# 1012

Delta R.T. 0.10 min

Lab File: BG033167.D

Acq: 15 Mar 2018 5:45

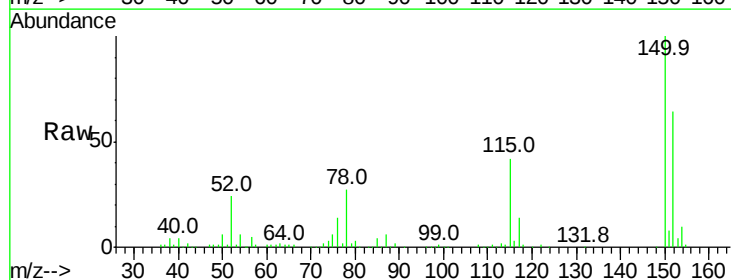
Tgt Ion: 79 Resp: 4997

Ion Ratio Lower Upper

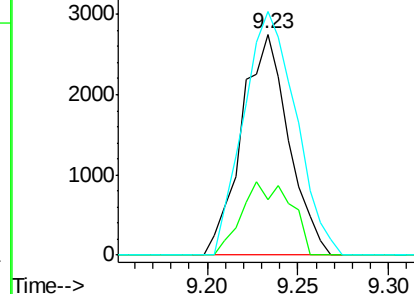
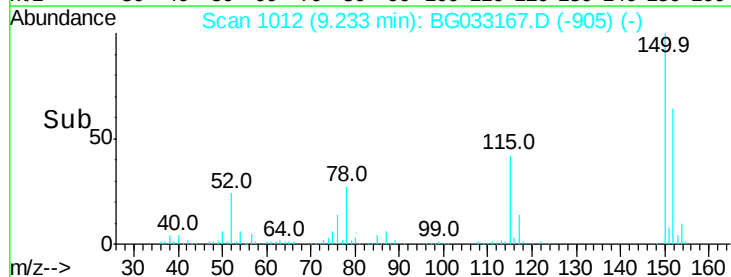
79 100

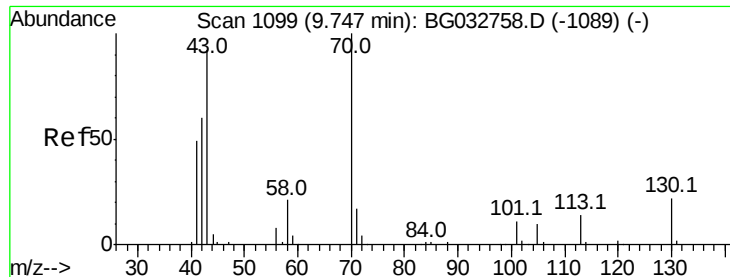
108 25.2 57.2 85.8#

77 110.3 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

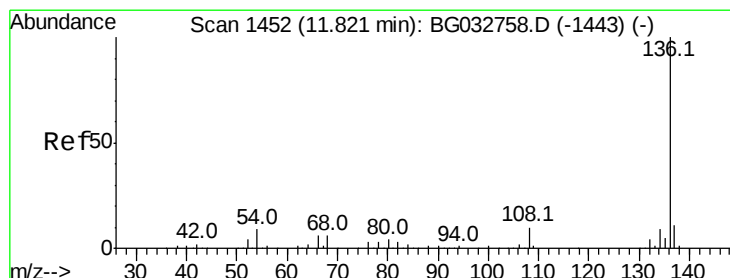
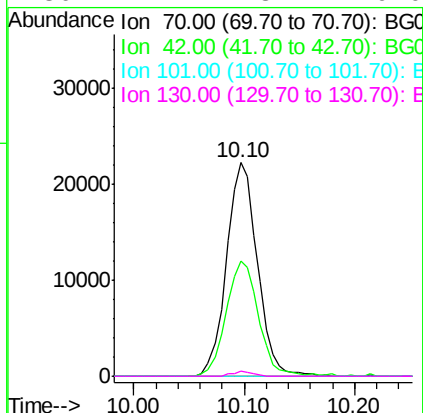
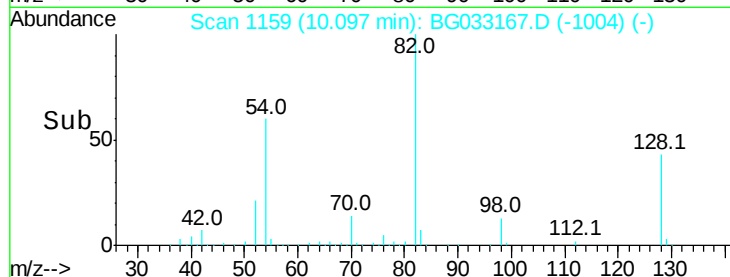
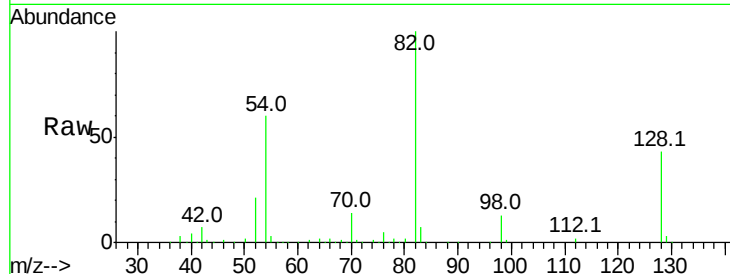




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.770 ng  
RT: 10.10 min Scan# 1159  
Delta R.T. 0.38 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

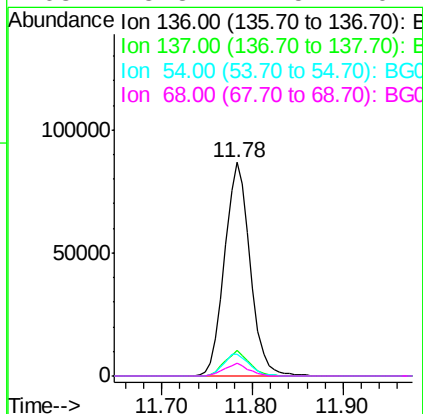
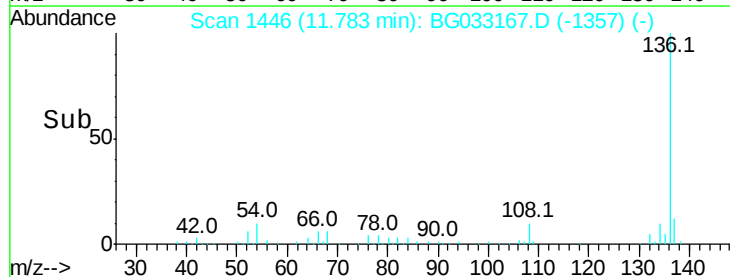
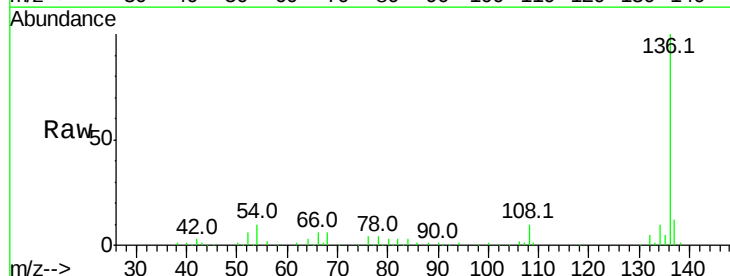
Instrument :  
BNA\_F  
ClientSampleId :

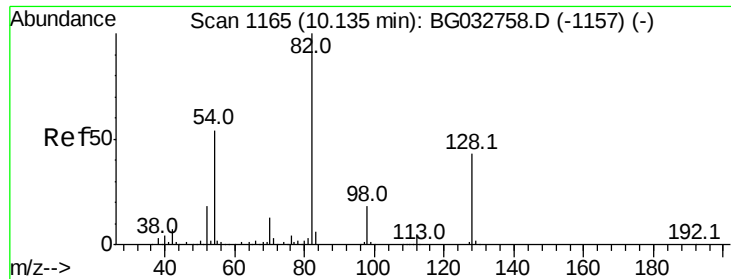
Tot Ion: 70 Resp: 43453  
Ion Ratio Lower Upper  
70 100  
42 54.0 49.1 73.7  
101 0.0 8.5 12.7#  
130 2.1 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.78 min Scan# 1446  
Delta R.T. -0.01 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

Tgt Ion: 136 Resp: 169332  
Ion Ratio Lower Upper  
136 100  
137 11.8 9.2 13.8  
54 10.3 10.3 15.5  
68 5.8 4.5 6.7

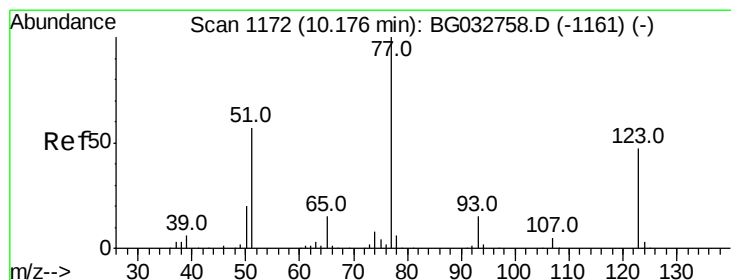
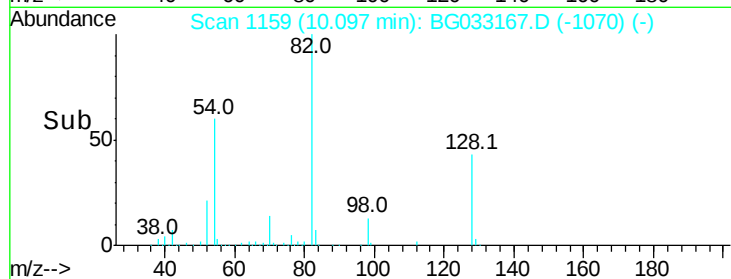
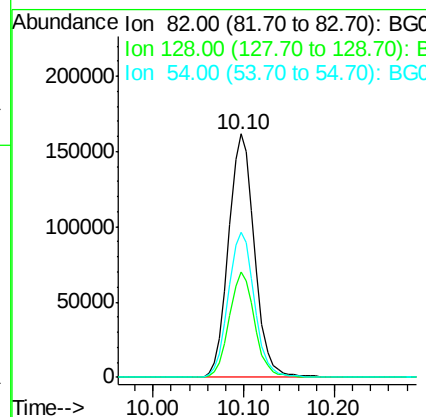
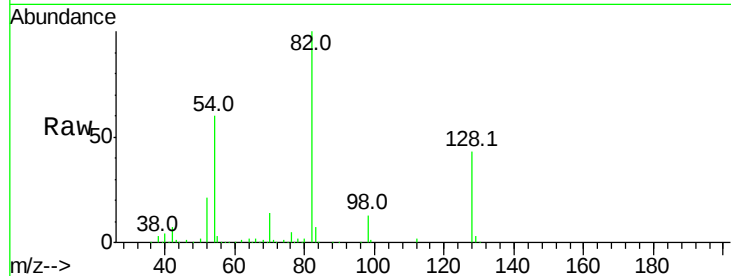




#23  
 Nitrobenzene-d5  
 Concen: 126.735 ng  
 RT: 10.10 min Scan# 1159  
 Delta R.T. -0.01 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

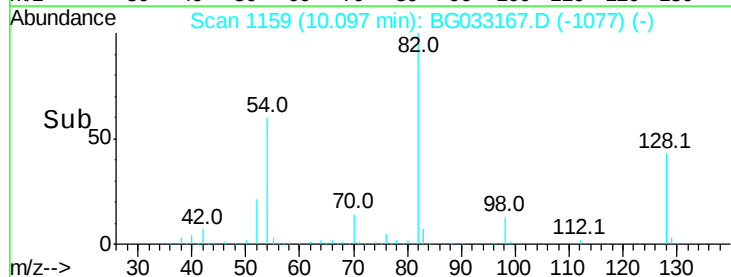
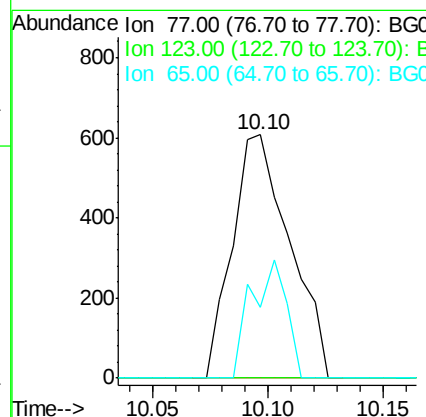
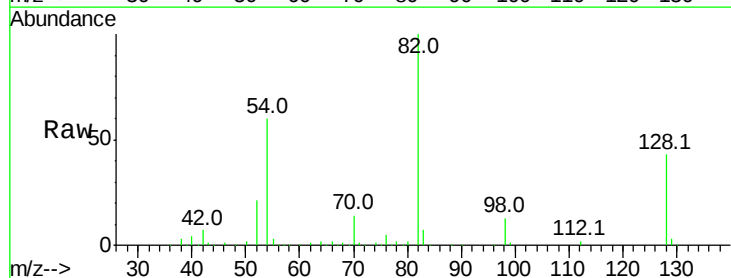
Instrument :  
 BNA\_F  
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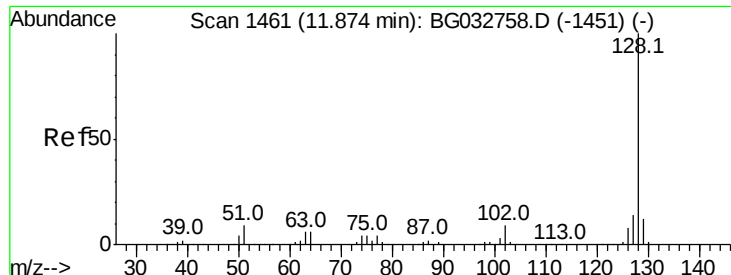
Tot Ion: 82 Resp: 322692  
 Ion Ratio Lower Upper  
 82 100  
 128 43.2 29.7 44.5  
 54 59.6 43.1 64.7



#24  
 Nitrobenzene  
 Concen: 6.718 ng  
 RT: 10.10 min Scan# 1159  
 Delta R.T. -0.05 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

Tgt Ion: 77 Resp: 1051  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 33.0 49.6#  
 65 28.9 13.0 19.6#

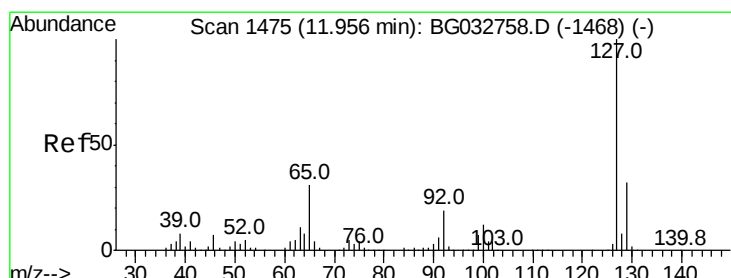
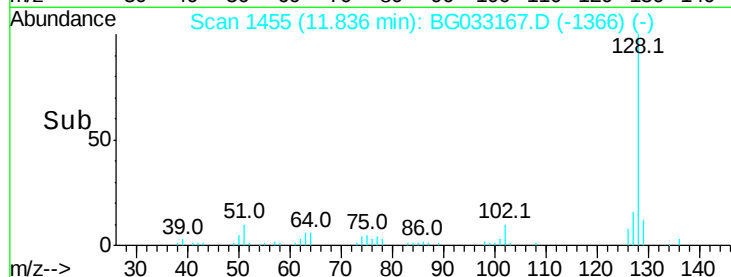
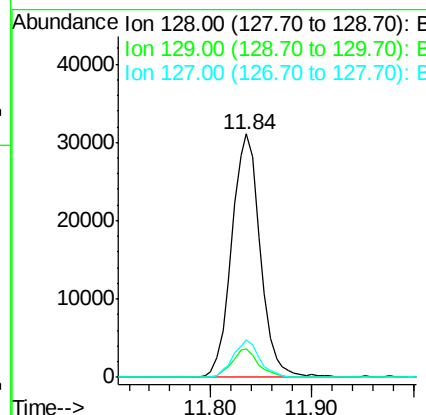
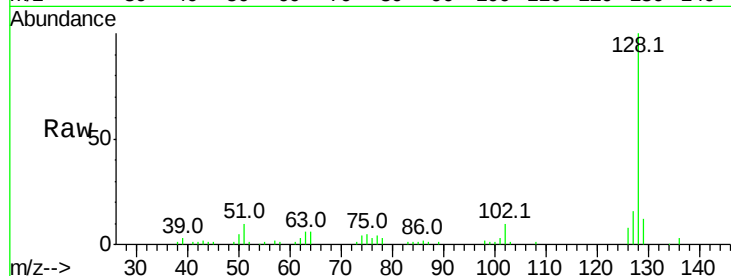




#31  
Naphthalene  
Concen: 6.856 ng  
RT: 11.84 min Scan# 1455  
Delta R.T. -0.01 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

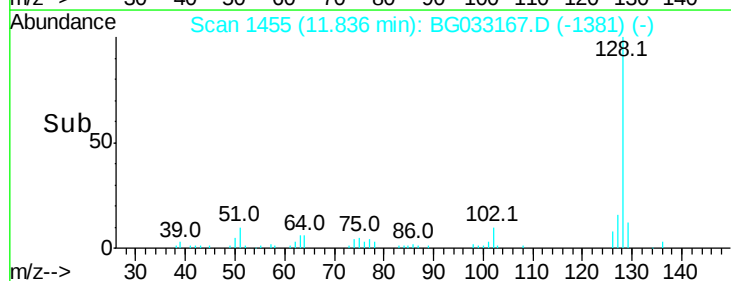
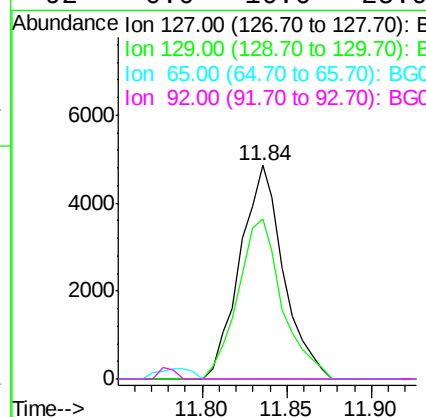
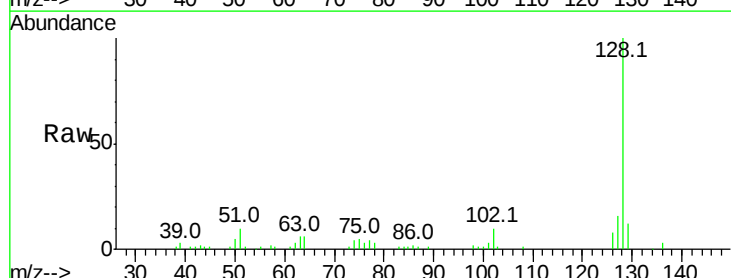
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ClientSampleId :

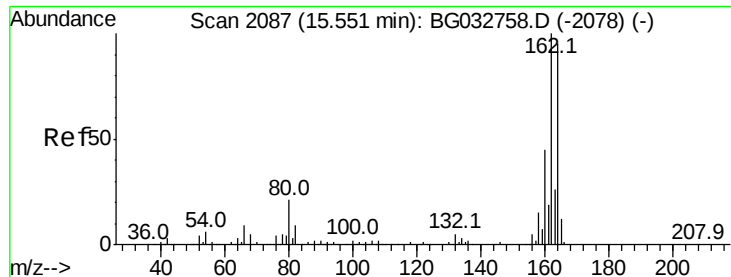
Tot Ion:128 Resp: 60660  
Ion Ratio Lower Upper  
128 100  
129 11.7 8.6 12.8  
127 15.6 11.6 17.4



#33  
4-Chloroaniline  
Concen: 2.194 ng  
RT: 11.84 min Scan# 1455  
Delta R.T. -0.09 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

Tgt Ion:127 Resp: 8681  
Ion Ratio Lower Upper  
127 100  
129 74.6 24.0 36.0#  
65 0.0 27.0 40.4#  
92 0.0 16.6 25.0#





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.51 min Scan# 2081

Delta R.T. -0.01 min

Lab File: BG033167.D

Acq: 15 Mar 2018 5:45

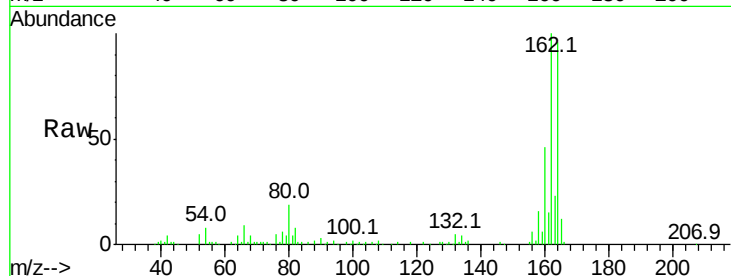
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:164 Resp: 103577

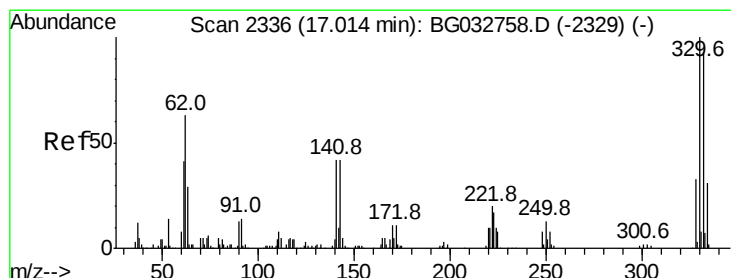
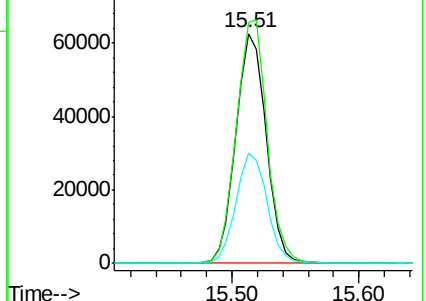
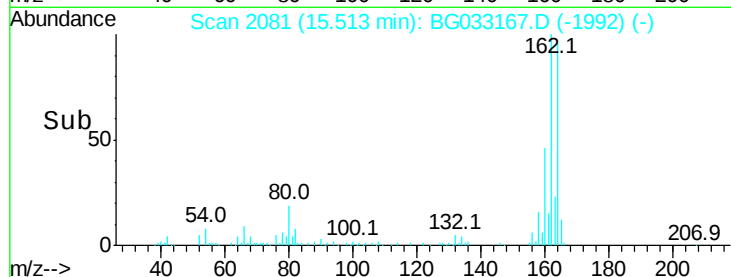
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 104.6 | 78.8  | 118.2 |
| 160 | 47.9  | 35.4  | 53.0  |



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: 237.030 ng

RT: 16.99 min Scan# 2332

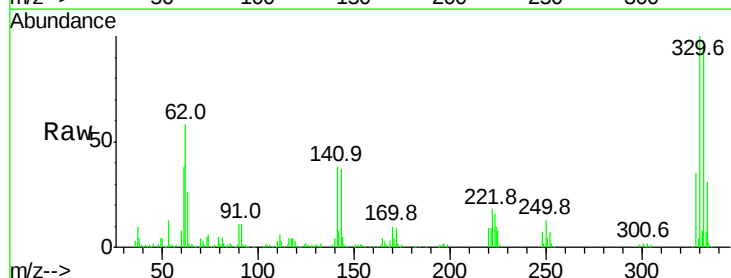
Delta R.T. -0.01 min

Lab File: BG033167.D

Acq: 15 Mar 2018 5:45

Tgt Ion:330 Resp: 258144

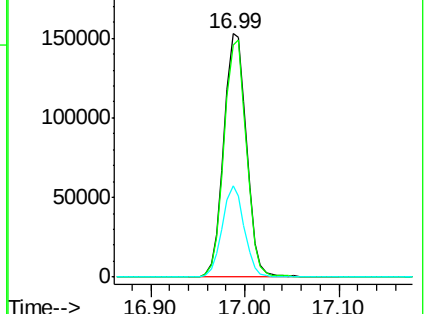
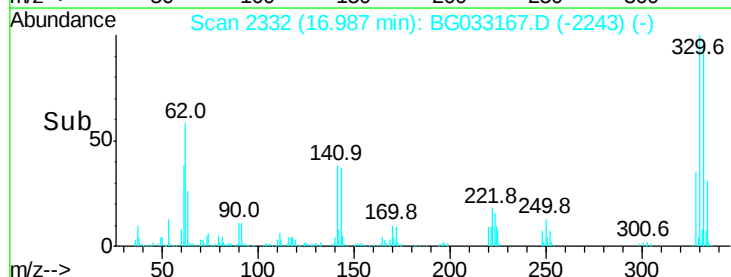
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.0  | 77.0  | 115.6 |
| 141 | 36.7  | 25.2  | 37.8  |

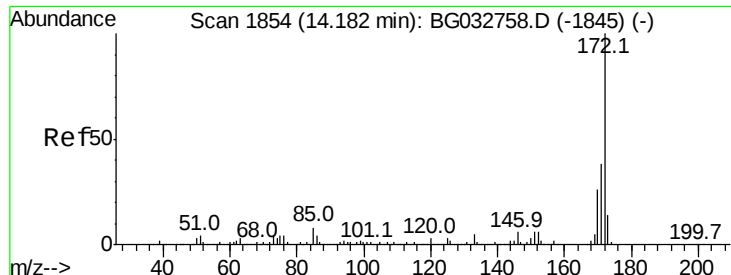


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

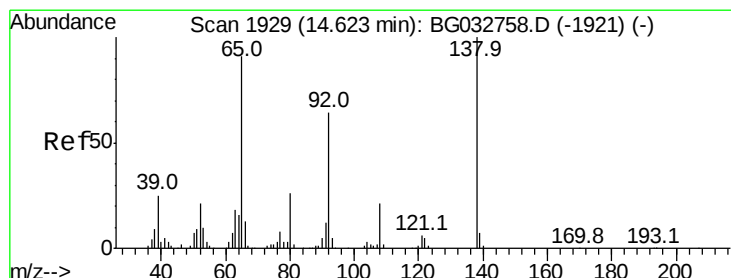
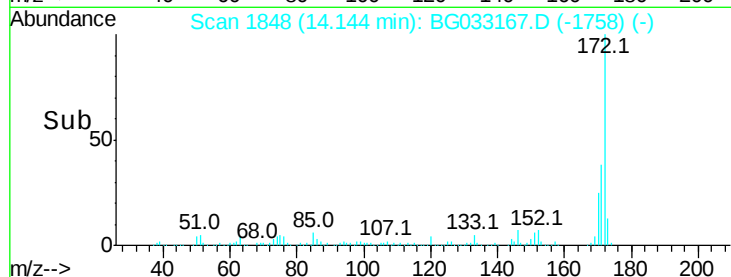
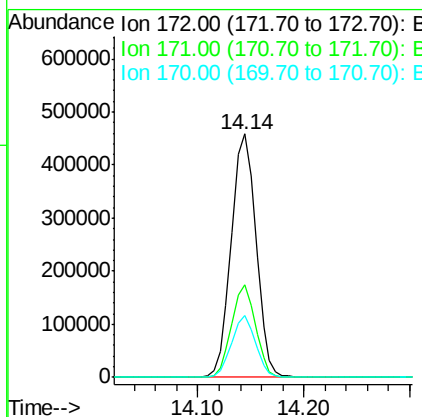
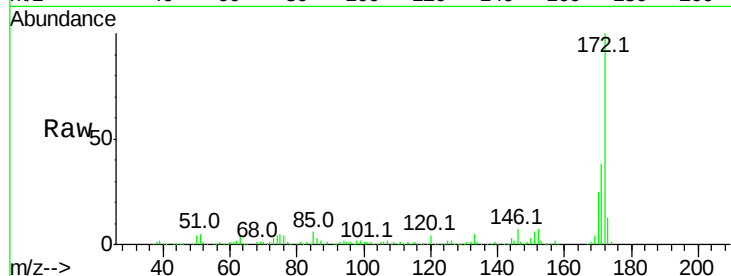




#44  
 2-Fluorobiphenyl  
 Concen: 103.257 ng  
 RT: 14.14 min Scan# 1848  
 Delta R.T. 0.00 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

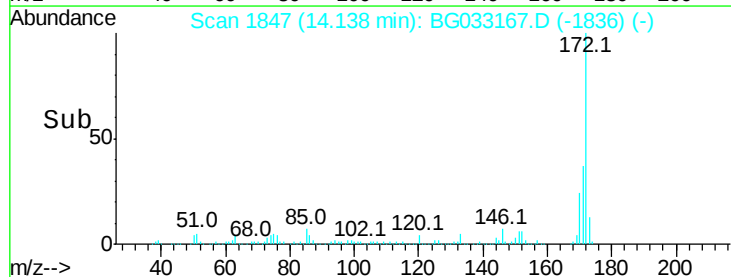
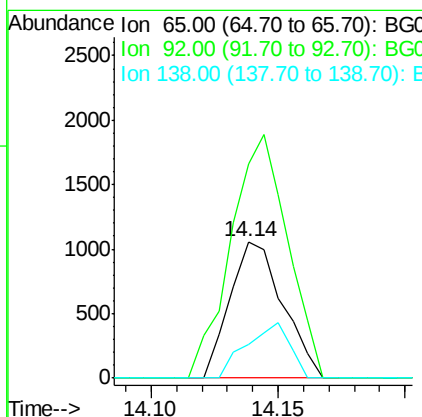
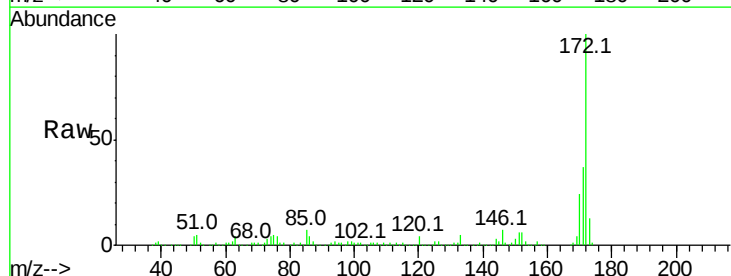
Instrument :  
 BNA\_F  
 ClientSampleId :

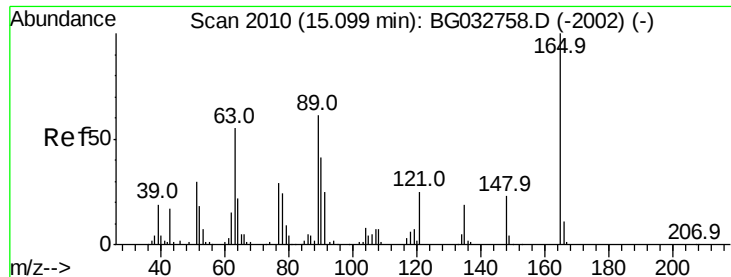
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.1  | 30.0  | 45.0  |
| 170     | 25.3  | 19.5  | 29.3  |



#47  
 2-Nitroaniline  
 Concen: 10.551 ng  
 RT: 14.14 min Scan# 1847  
 Delta R.T. -0.46 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 157.5 | 54.6  | 82.0#  |
| 138     | 24.2  | 72.9  | 109.3# |

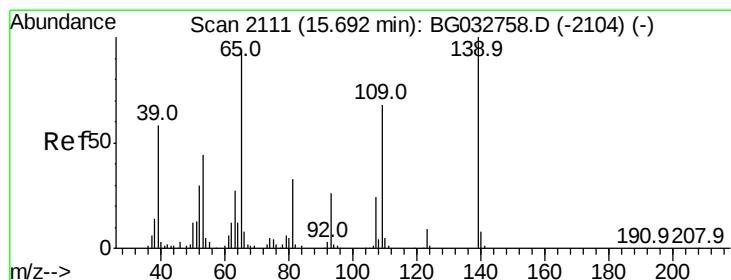
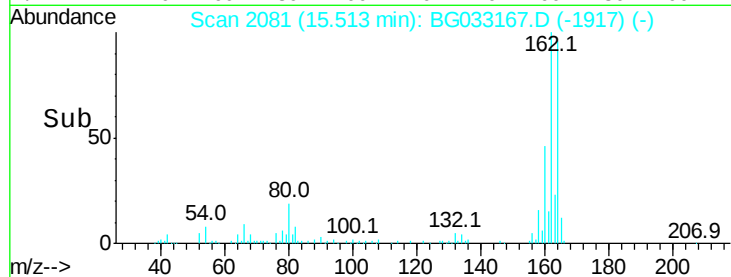
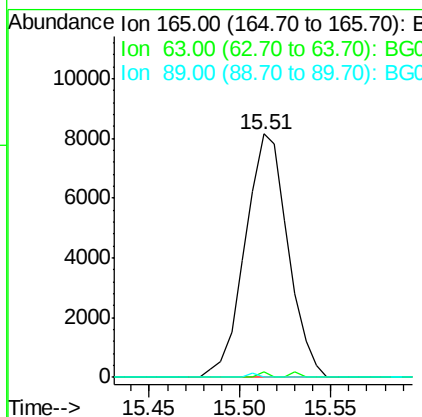
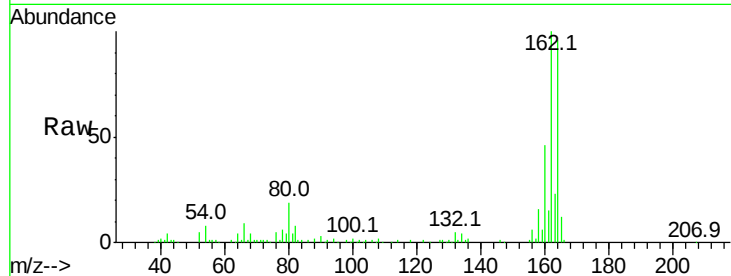




#50  
2,6-Dinitrotoluene  
Concen: 16.421 ng  
RT: 15.51 min Scan# 2081  
Delta R.T. 0.44 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

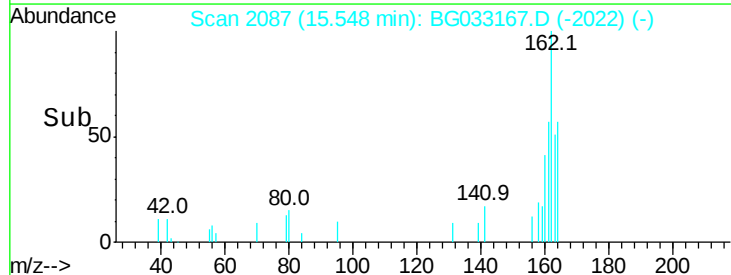
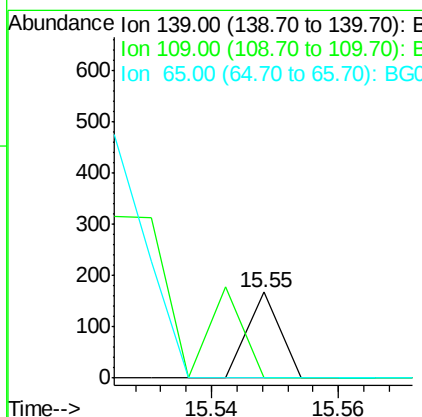
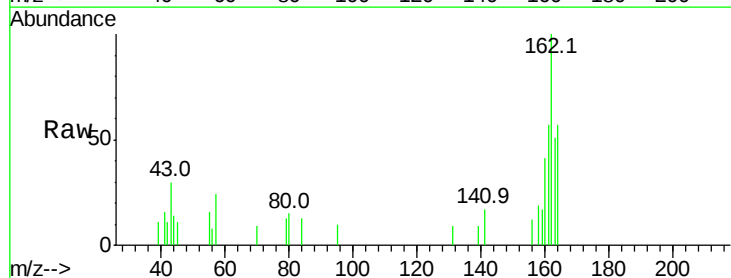
Instrument :  
BNA\_F  
ClientSampled :

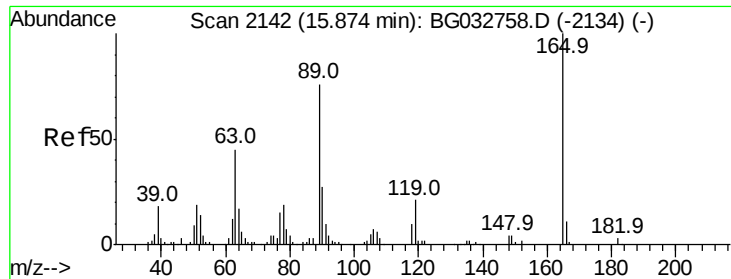
Tot Ion:165 Resp: 13443  
Ion Ratio Lower Upper  
165 100  
63 2.5 52.7 79.1#  
89 0.0 49.2 73.8#



#55  
4-Nitrophenol  
Concen: 7.118 ng  
RT: 15.55 min Scan# 2087  
Delta R.T. -0.15 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

Tgt Ion:139 Resp: 59  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#





#56

2,4-Dinitrotoluene

Concen: 14.619 ng

RT: 15.51 min Scan# 2081

Delta R.T. -0.34 min

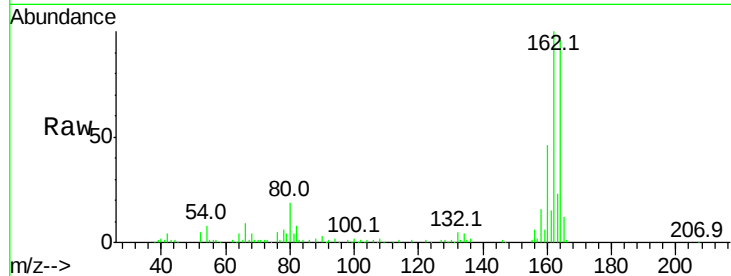
Lab File: BG033167.D

Acq: 15 Mar 2018 5:45

Instrument :

BNA\_F

ClientSampleId :



Tot Ion:165 Resp: 13443

Ion Ratio Lower Upper

165 100

63 2.5 42.0 63.0#

89 0.0 66.9 100.3#

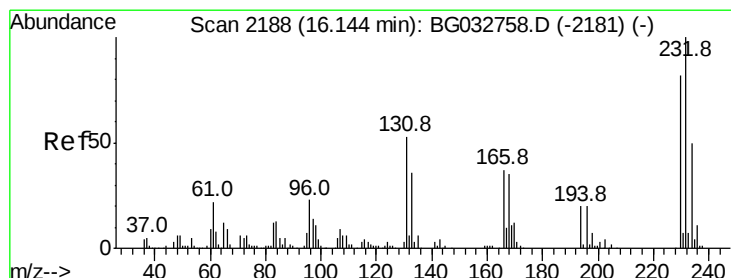
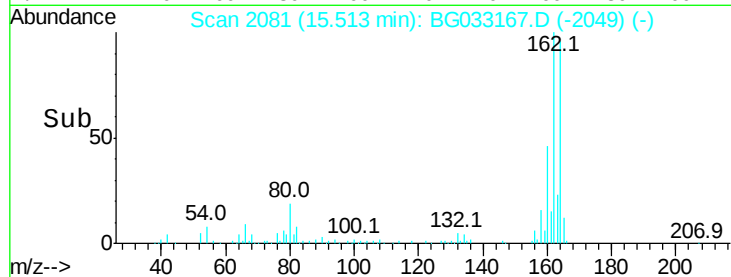
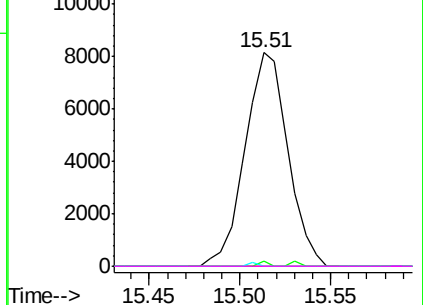
182 0.0 2.6 3.8#

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



#58

2,3,4,6-Tetrachlorophenol

Concen: 4.902 ng

RT: 16.12 min Scan# 2185

Delta R.T. 0.00 min

Lab File: BG033167.D

Acq: 15 Mar 2018 5:45

Tgt Ion:232 Resp: 8542

Ion Ratio Lower Upper

232 100

131 49.5 33.5 50.3

130 0.0 2.2 3.2#

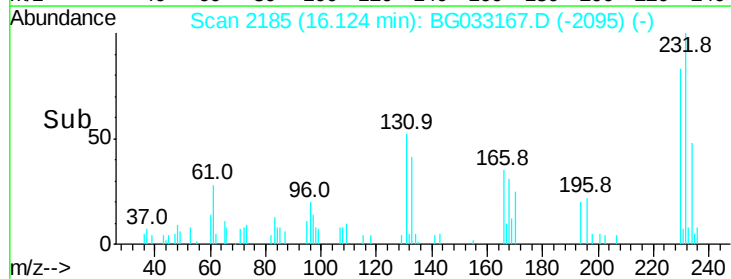
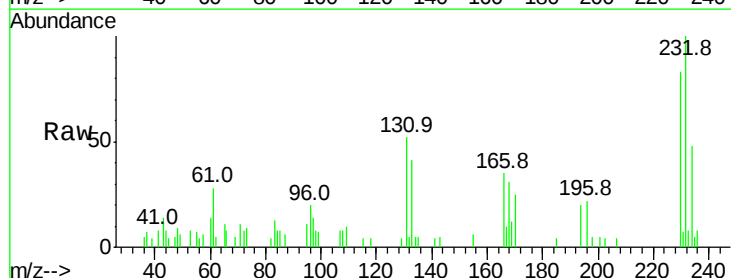
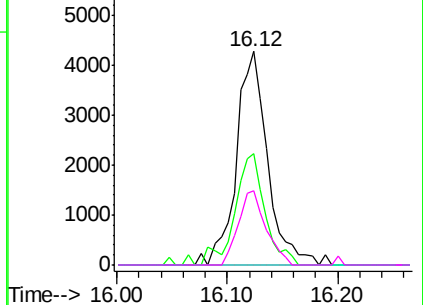
166 30.5 24.8 37.2

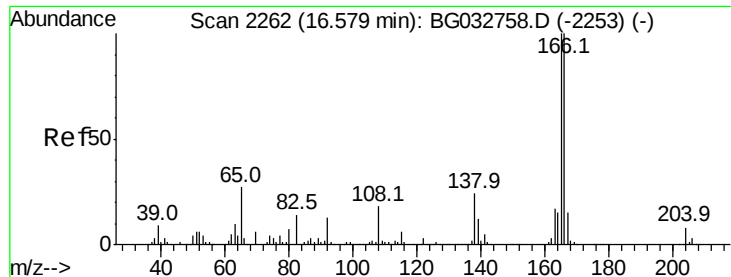
Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

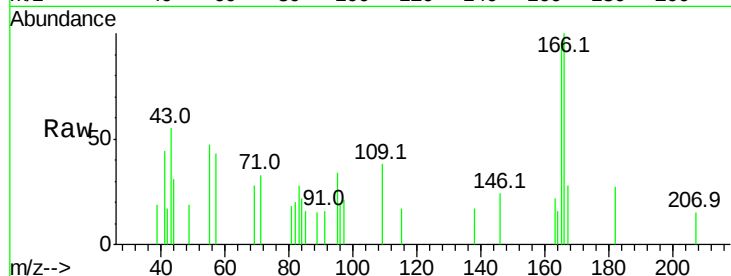




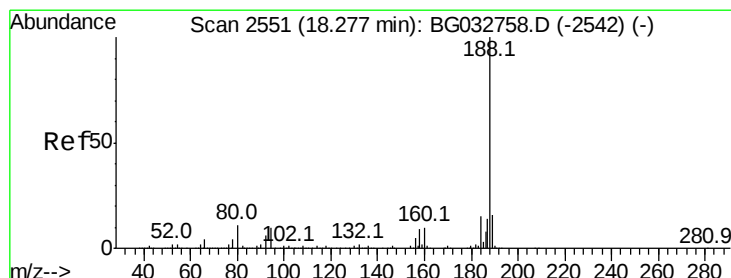
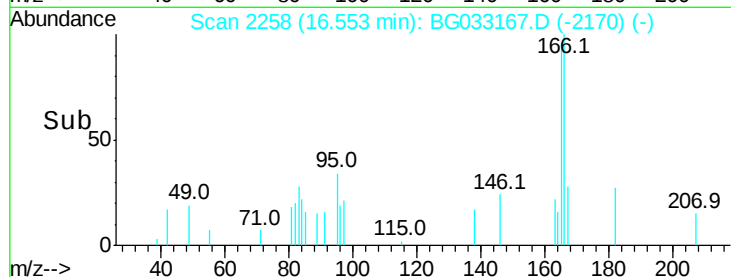
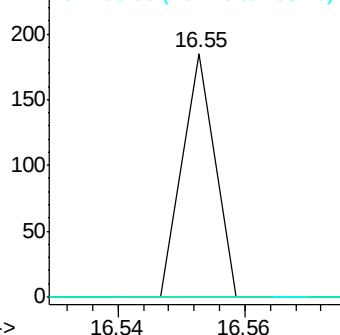
#61  
4-Nitroaniline  
Concen: 5.330 ng  
RT: 16.55 min Scan# 2258  
Delta R.T. -0.01 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:138 Resp: 65  
Ion Ratio Lower Upper  
138 100  
92 0.0 40.1 80.1#  
108 0.0 65.4 105.4#

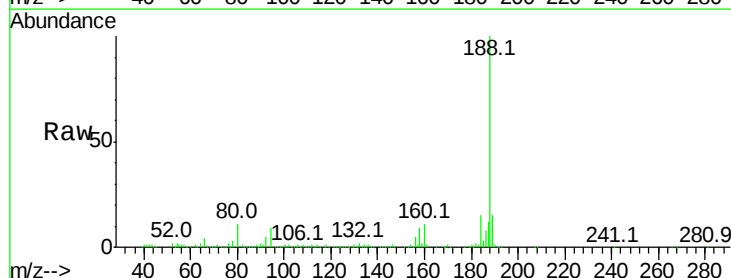


Abundance Ion 138.00 (137.70 to 138.70): E  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 108.00 (107.70 to 108.70): E

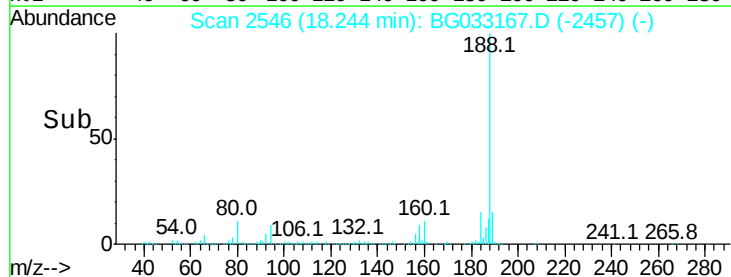
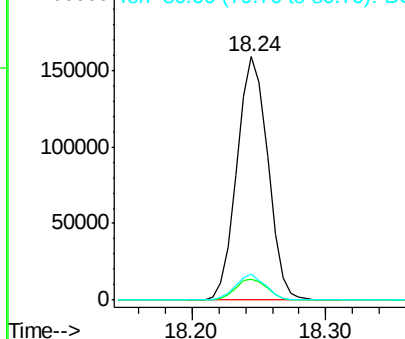


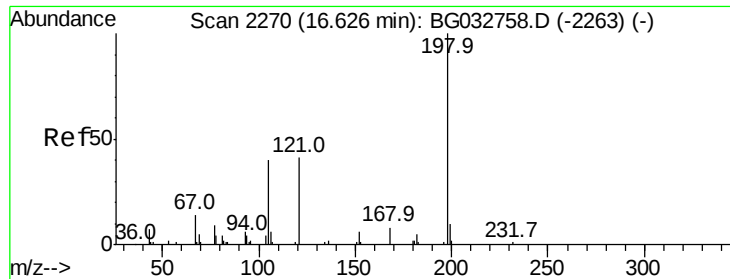
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.24 min Scan# 2546  
Delta R.T. -0.01 min  
Lab File: BG033167.D  
Acq: 15 Mar 2018 5:45

Tgt Ion:188 Resp: 254912  
Ion Ratio Lower Upper  
188 100  
94 8.6 6.9 10.3  
80 10.8 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

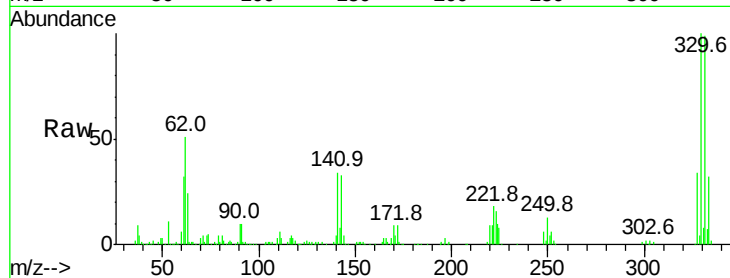




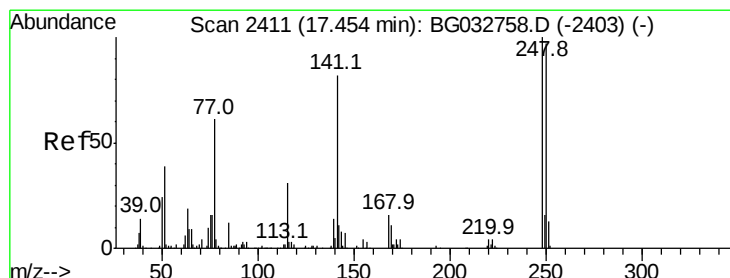
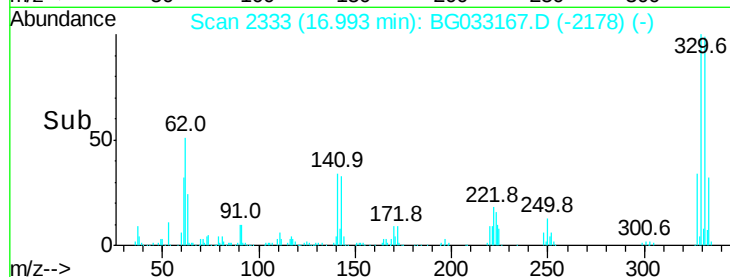
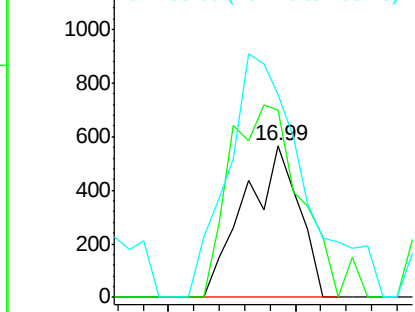
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 6.351 ng  
 RT: 16.99 min Scan# 2333  
 Delta R.T. 0.38 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 845  
 Ion Ratio Lower Upper  
 198 100  
 51 124.0 30.6 70.6#  
 105 133.4 23.8 63.8#

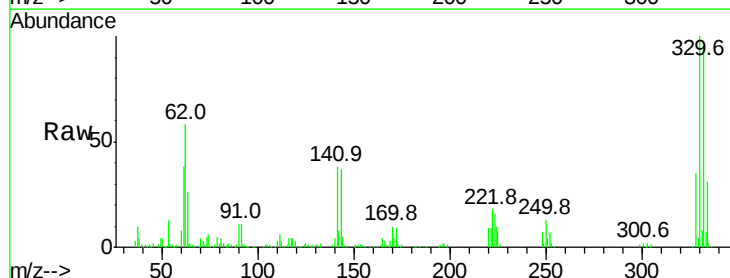


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BGC  
 Ion 105.00 (104.70 to 105.70): E

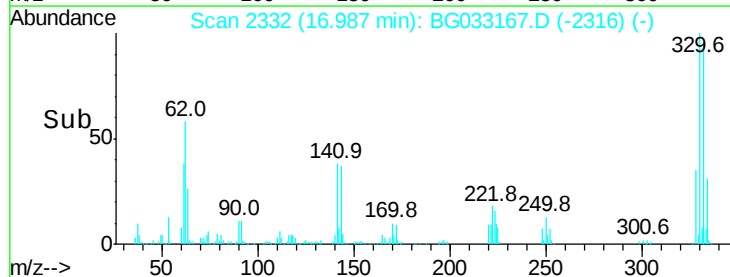
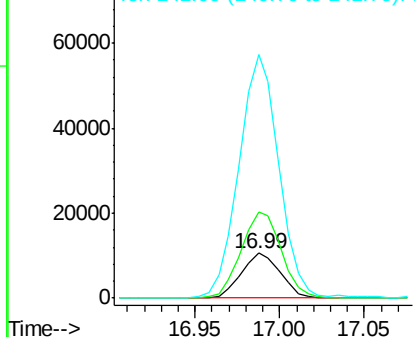


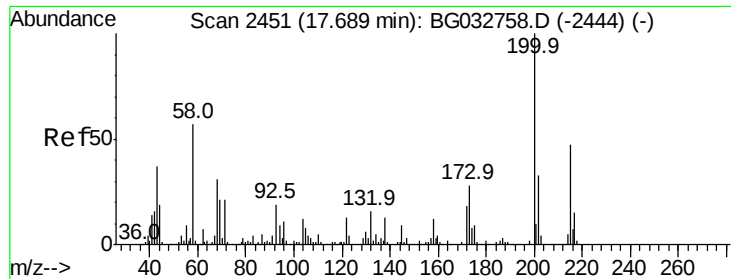
#66  
 4-Bromophenyl-phenylether  
 Concen: 6.319 ng  
 RT: 16.99 min Scan# 2332  
 Delta R.T. -0.43 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

Tgt Ion:248 Resp: 17032  
 Ion Ratio Lower Upper  
 248 100  
 250 190.8 77.1 115.7#  
 141 539.3 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

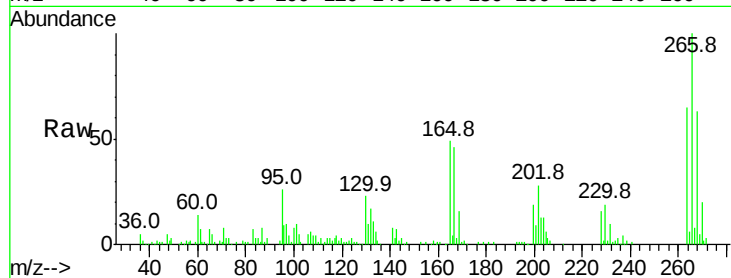




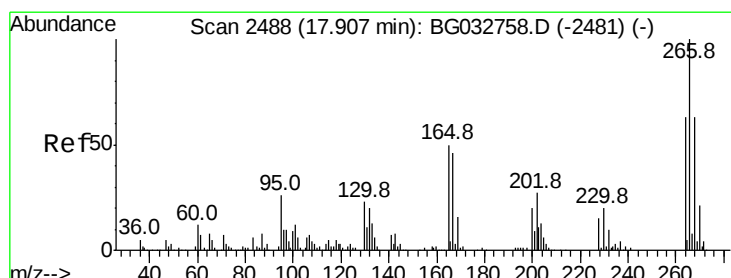
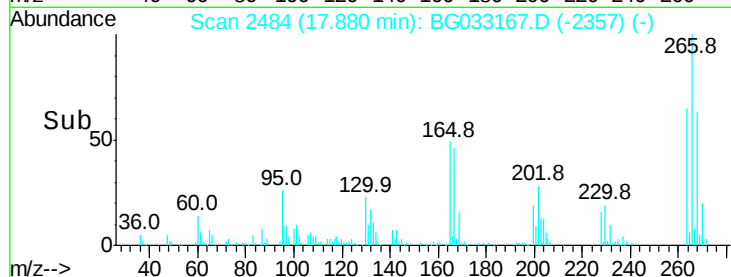
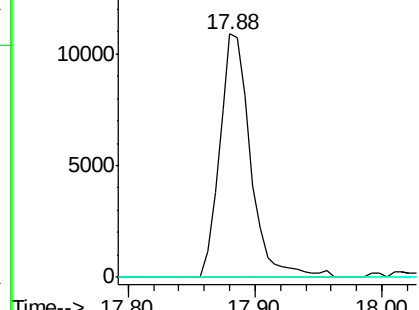
#68  
 Atrazine  
 Concen: 6.744 ng  
 RT: 17.88 min Scan# 2484  
 Delta R.T. 0.22 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

Instrument :  
 BNA\_F  
 ClientSampleID :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 0.0   | 5.2   | 45.2# |
| 215     | 0.0   | 30.4  | 70.4# |

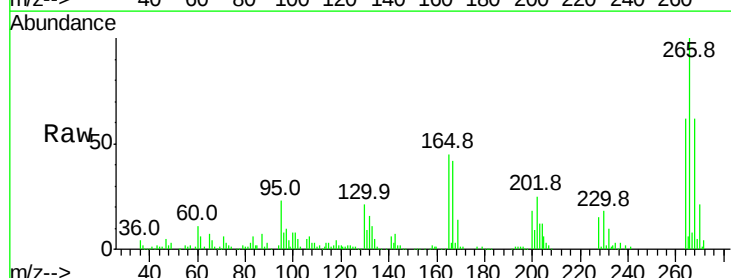


Abundance Ion 200.00 (199.70 to 200.70): E  
 Ion 173.00 (172.70 to 173.70): E  
 Ion 215.00 (214.70 to 215.70): E

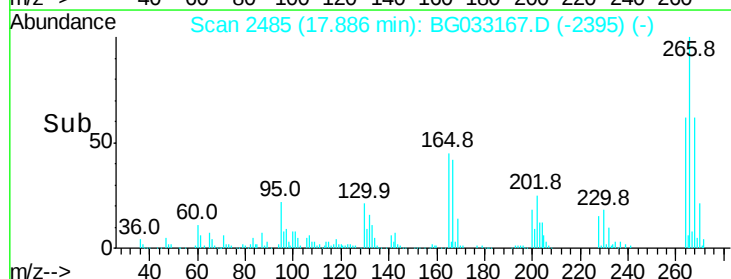
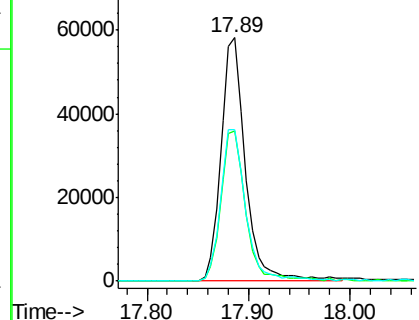


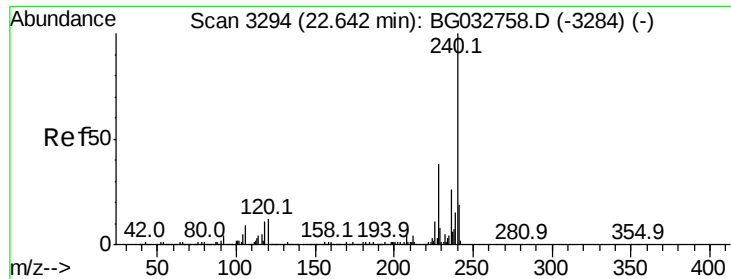
#69  
 Pentachlorophenol  
 Concen: 53.158 ng  
 RT: 17.89 min Scan# 2485  
 Delta R.T. 0.00 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 61.6  | 51.1  | 76.7  |
| 264     | 62.4  | 49.6  | 74.4  |



Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.60 min Scan# 3288

Delta R.T. -0.01 min

Lab File: BG033167.D

Acq: 15 Mar 2018 5:45

Instrument :

BNA\_F

ClientSampleId :

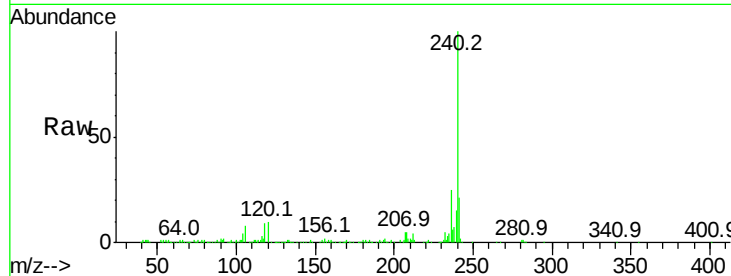
Tot Ion:240 Resp: 250469

Ion Ratio Lower Upper

240 100

120 9.9 6.8 10.2

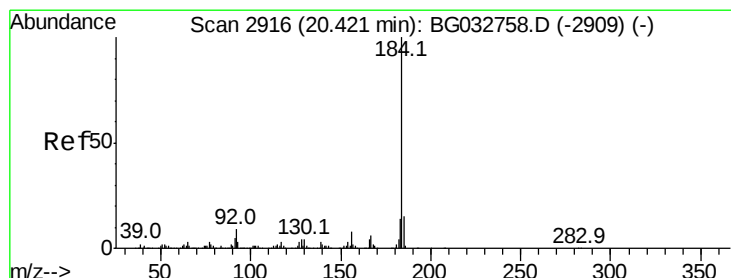
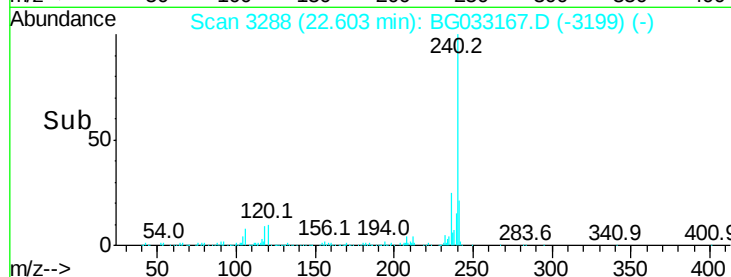
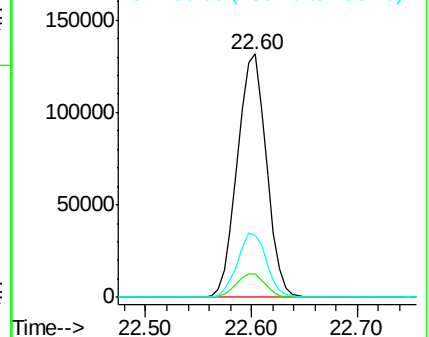
236 25.2 20.9 31.3



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: 2.527 ng

RT: 20.40 min Scan# 2913

Delta R.T. 0.00 min

Lab File: BG033167.D

Acq: 15 Mar 2018 5:45

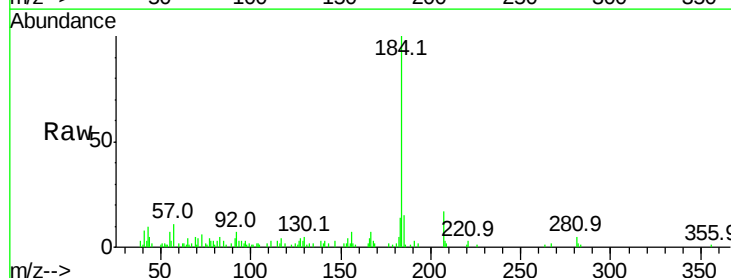
Tgt Ion:184 Resp: 21575

Ion Ratio Lower Upper

184 100

185 14.7 11.1 16.7

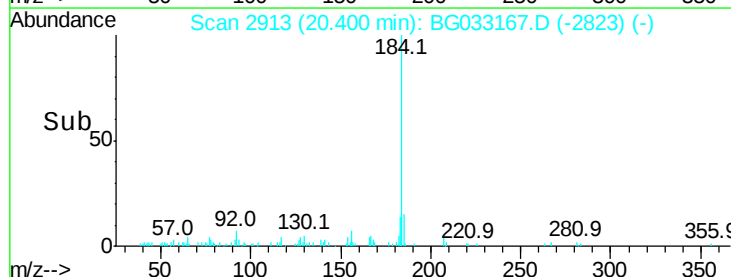
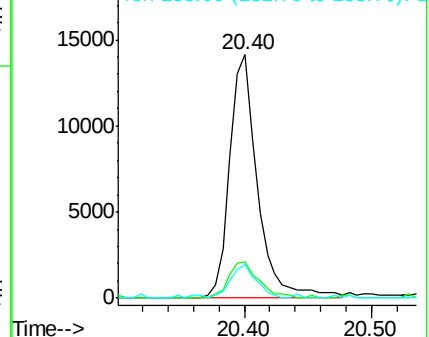
183 13.6 10.6 16.0

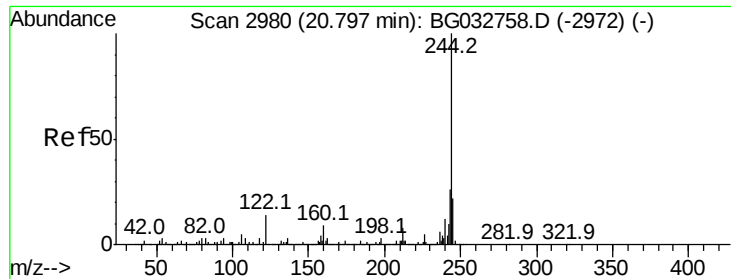


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



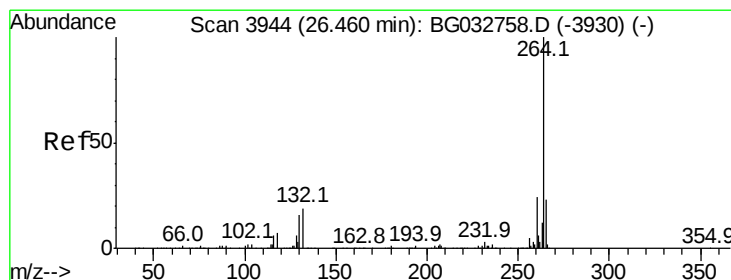
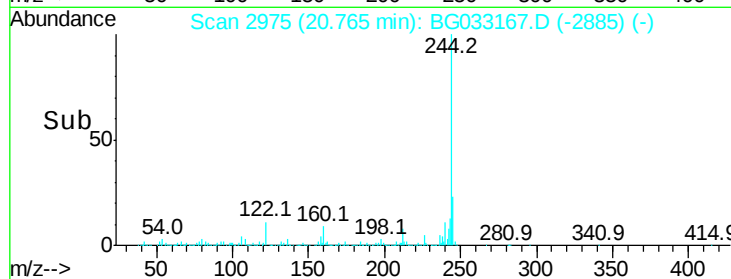
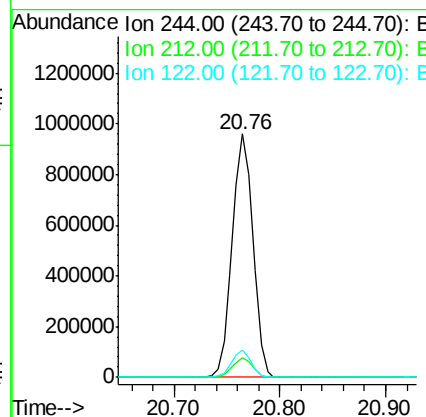
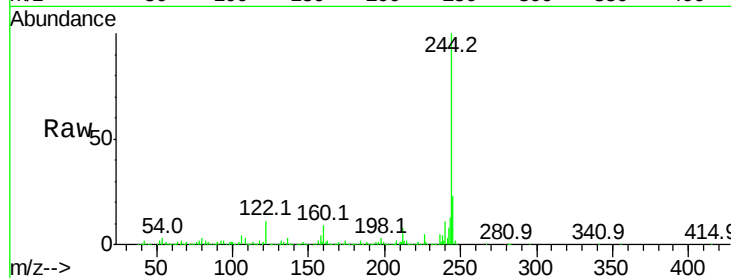


#78  
 Terphenyl-d14  
 Concen: 116.582 ng  
 RT: 20.76 min Scan# 2975  
 Delta R.T. 0.00 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 1299678  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.3   | 5.8   | 8.8   |
| 122 | 11.0  | 7.0   | 10.4  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 26.40 min Scan# 3934  
 Delta R.T. -0.01 min  
 Lab File: BG033167.D  
 Acq: 15 Mar 2018 5:45

Tgt Ion:264 Resp: 265102  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 17.4  | 26.0  |
| 265 | 21.7  | 17.7  | 26.5  |

