

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG030118\  
 Data File : BG032920.D  
 Acq On : 1 Mar 2018 16:58  
 Operator : SJ/JU  
 Sample : J1402-08  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 01 17:40:09 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  | 67043    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.81 | 136  | 290826   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.53 | 164  | 163491   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.26 | 188  | 356973   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.61 | 240  | 324446   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.43 | 264  | 301833   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.34  | 112  | 556390   | 132.77 | ng    | 0.00     |
| 7) Phenol-d6                | 8.02  | 99   | 676096   | 115.75 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 10.12 | 82   | 519360   | 119.39 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 17.00 | 330  | 222384   | 129.36 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.16 | 172  | 1145152  | 101.02 | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.78 | 244  | 1530462  | 105.98 | ng    | 0.00     |

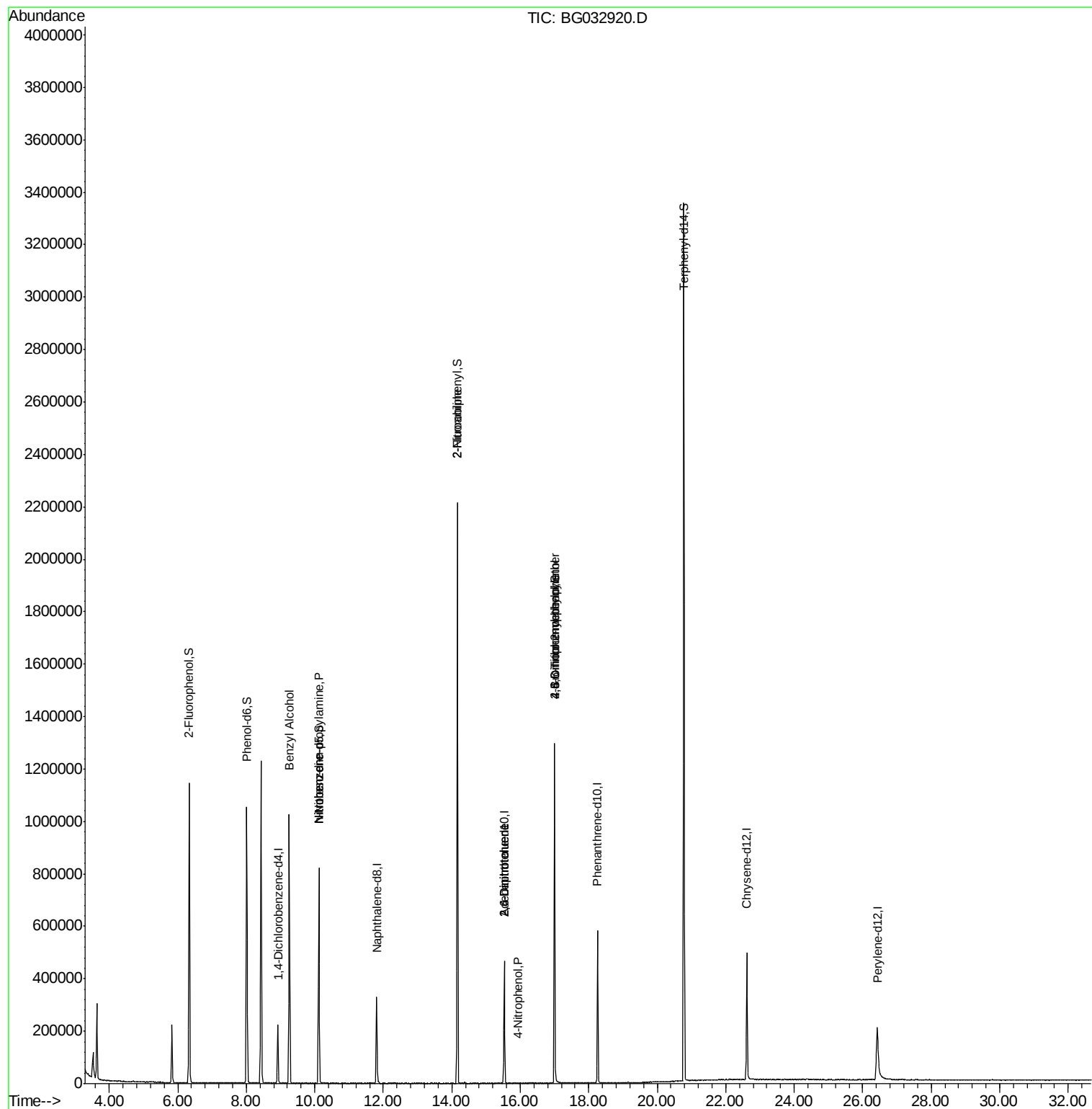
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 15) Benzyl Alcohol             | 9.26  | 79   | 8634     | 2.011  | ng    | # 37   |
| 19) n-Nitroso-di-n-propylamine | 10.12 | 70   | 66709    | 16.177 | ng    | # 81   |
| 24) Nitrobenzene               | 10.13 | 77   | 1607     | 6.681  | ng    | # 36   |
| 47) 2-Nitroaniline             | 14.16 | 65   | 2134     | 10.466 | ng    | # 1    |
| 50) 2,6-Dinitrotoluene         | 15.53 | 165  | 20803    | 16.274 | ng    | # 21   |
| 55) 4-Nitrophenol              | 15.92 | 139  | 140      | 7.137  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.53 | 165  | 20803    | 14.471 | ng    | # 19   |
| 64) 4,6-Dinitro-2-methylphenol | 17.00 | 198  | 505      | 5.550  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 17.00 | 248  | 15520    | 4.112  | ng    | # 1    |

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

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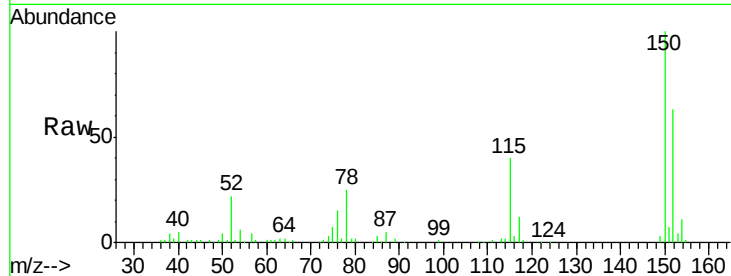


#1

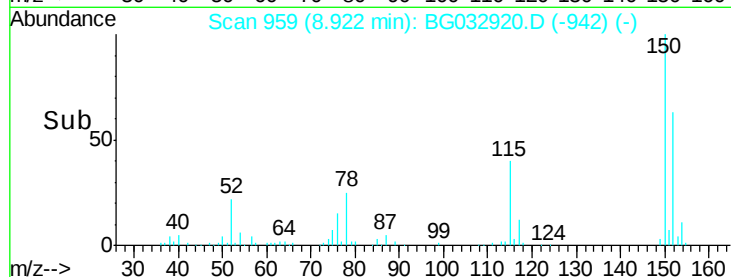
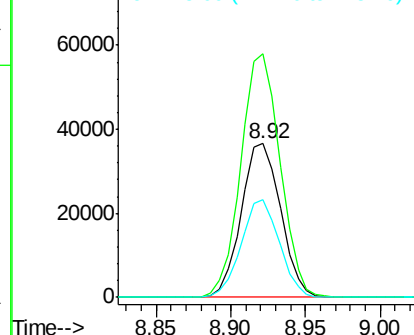
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.92 min Scan# 959  
Delta R.T. 0.00 min  
Lab File: BG032920.D  
Acq: 1 Mar 2018 16:58

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 67043  
Ion Ratio Lower Upper  
152 100  
150 158.1 126.6 189.8  
115 63.8 53.0 79.4



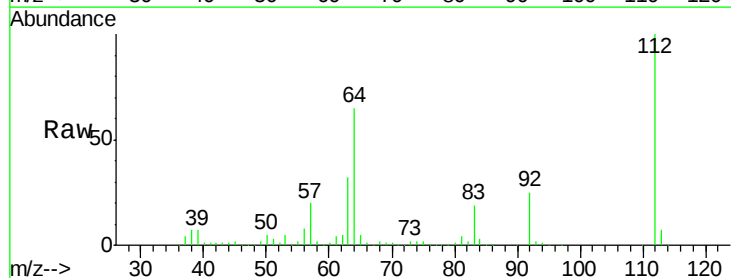
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



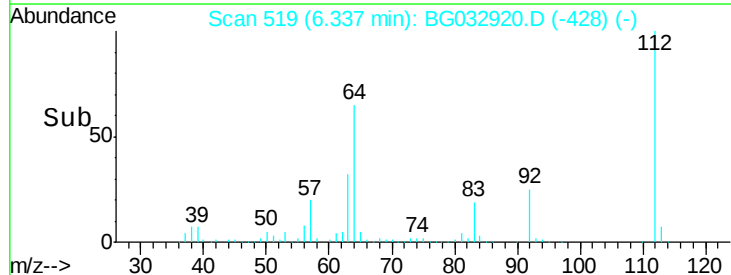
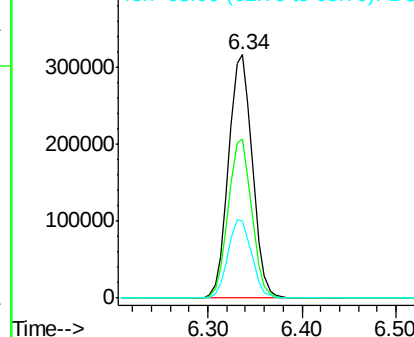
#5

2-Fluorophenol  
Concen: 132.772 ng  
RT: 6.34 min Scan# 519  
Delta R.T. 0.01 min  
Lab File: BG032920.D  
Acq: 1 Mar 2018 16:58

Tgt Ion:112 Resp: 556390  
Ion Ratio Lower Upper  
112 100  
64 65.4 56.3 84.5  
63 31.7 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: 115.749 ng

RT: 8.02 min Scan# 805

Delta R.T. 0.00 min

Lab File: BG032920.D

Acq: 1 Mar 2018 16:58

Instrument :

BNA\_G

ClientSampled :

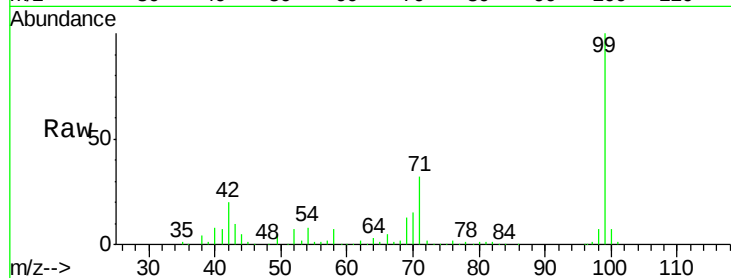
Tot Ion: 99 Resp: 676096

Ion Ratio Lower Upper

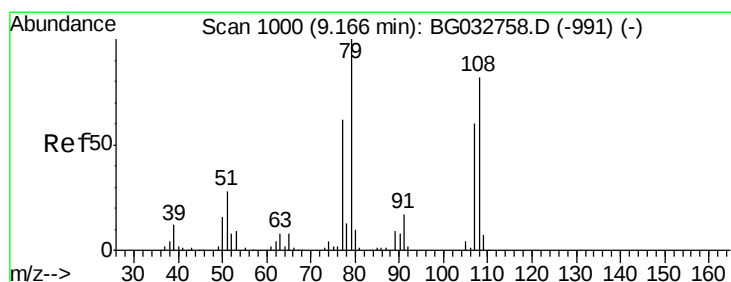
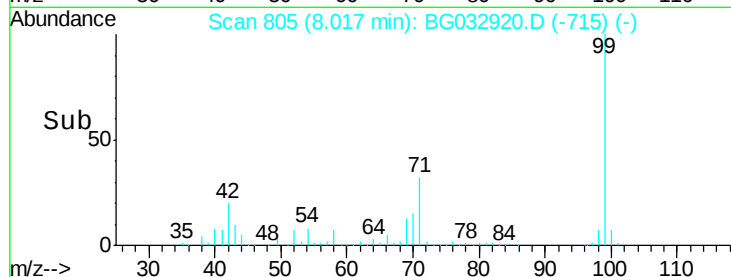
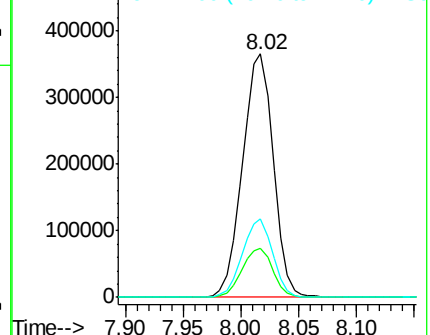
99 100

42 20.1 14.1 21.1

71 32.0 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: 2.011 ng

RT: 9.26 min Scan# 1016

Delta R.T. 0.11 min

Lab File: BG032920.D

Acq: 1 Mar 2018 16:58

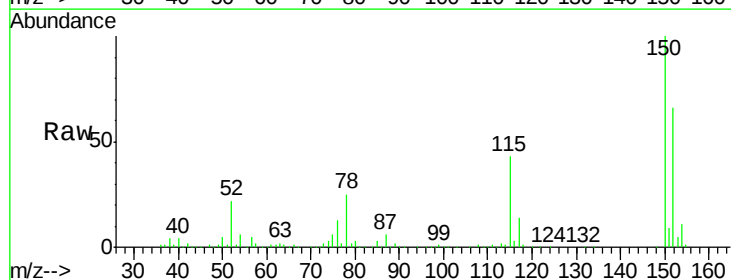
Tgt Ion: 79 Resp: 8634

Ion Ratio Lower Upper

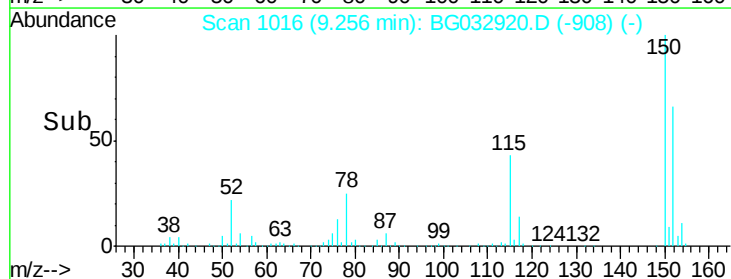
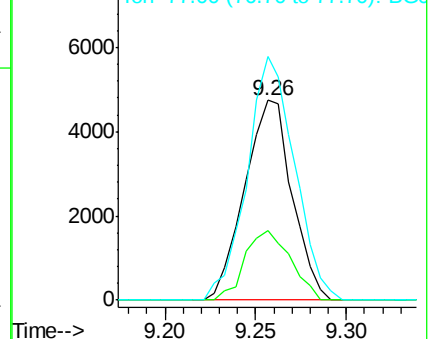
79 100

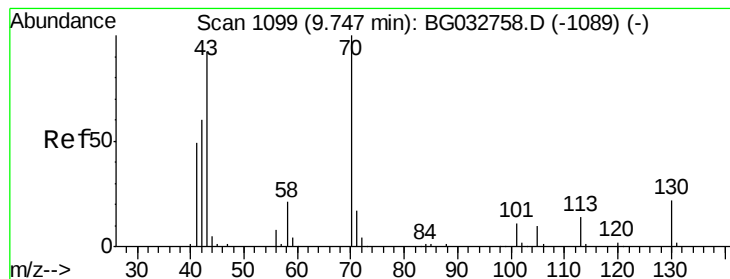
108 35.1 57.2 85.8#

77 121.7 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: 16.177 ng

RT: 10.12 min Scan# 1163

Delta R.T. 0.39 min

Lab File: BG032920.D

Acq: 1 Mar 2018 16:58

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 70 Resp: 66709

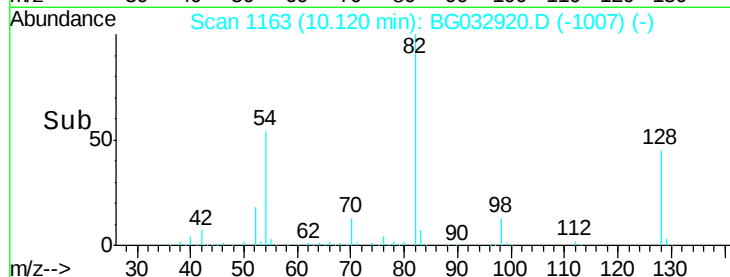
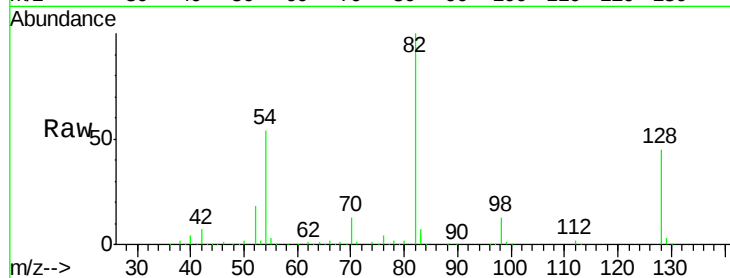
Ion Ratio Lower Upper

70 100

42 51.6 49.1 73.7

101 0.0 8.5 12.7#

130 2.4 13.4 20.0#

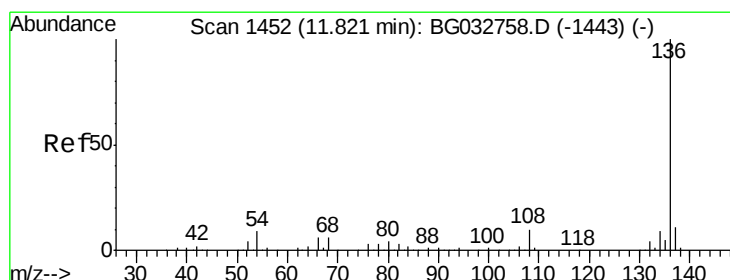
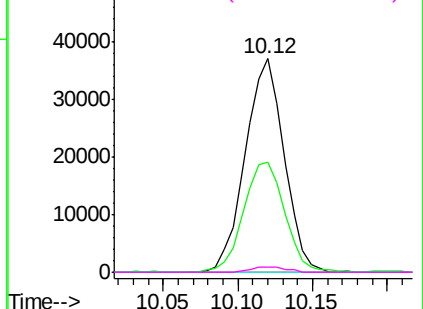


Abundance Ion 70.00 (69.70 to 70.70): BGC

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: 11.81 min Scan# 1450

Delta R.T. 0.00 min

Lab File: BG032920.D

Acq: 1 Mar 2018 16:58

Tgt Ion:136 Resp: 290826

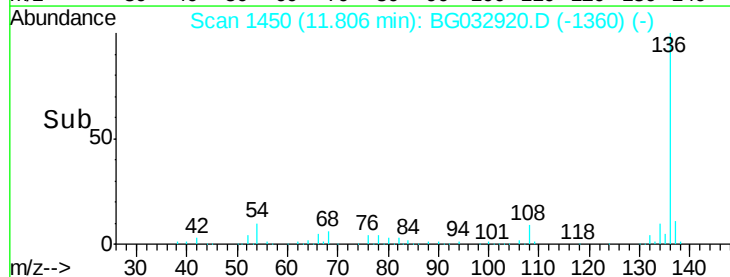
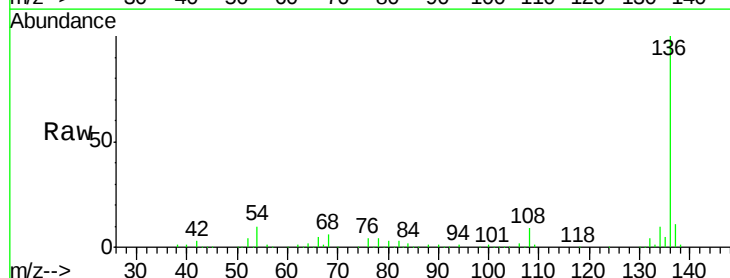
Ion Ratio Lower Upper

136 100

137 10.9 9.2 13.8

54 9.6 10.3 15.5#

68 6.5 4.5 6.7

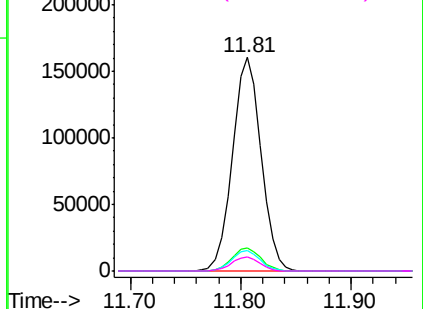


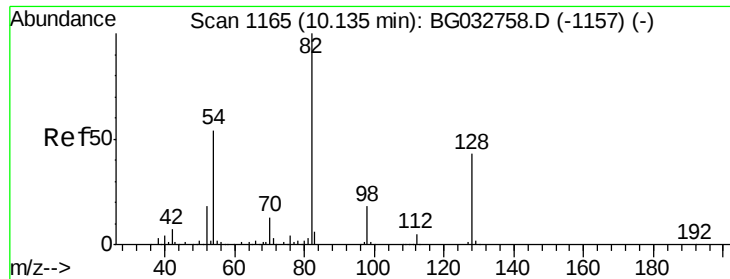
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

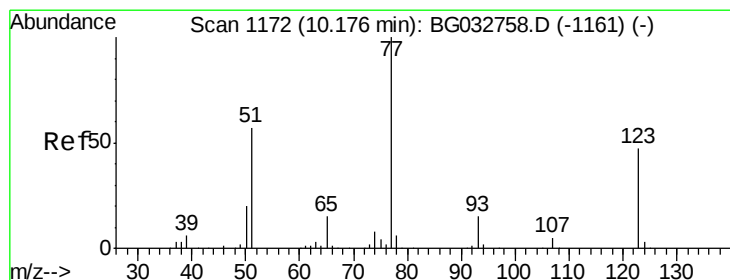
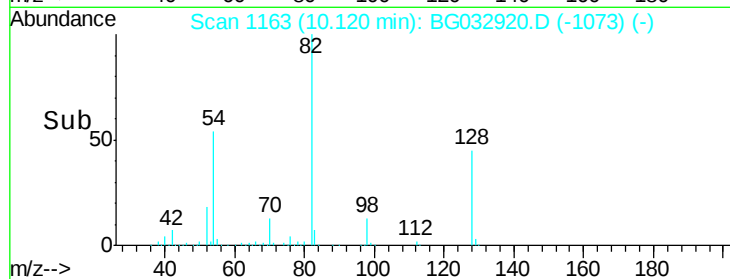
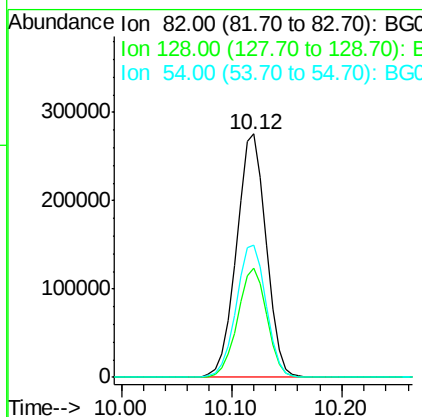
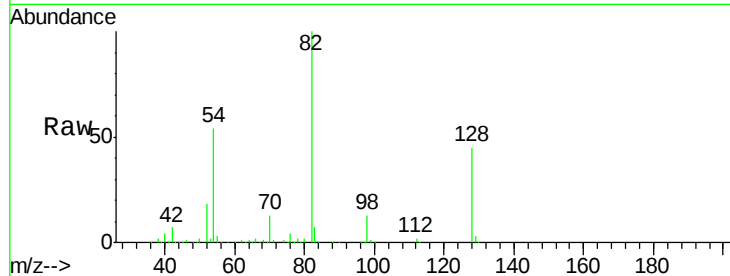




#23  
 Nitrobenzene-d5  
 Concen: 119.387 ng  
 RT: 10.12 min Scan# 1163  
 Delta R.T. 0.00 min  
 Lab File: BG032920.D  
 Acq: 1 Mar 2018 16:58

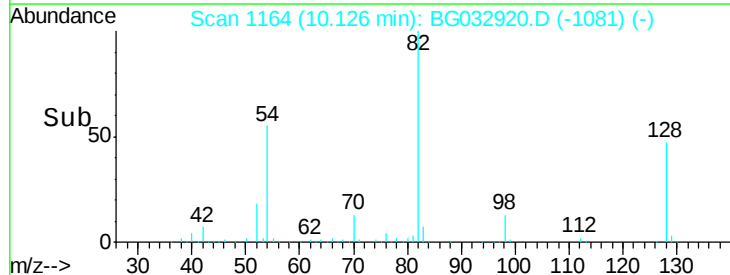
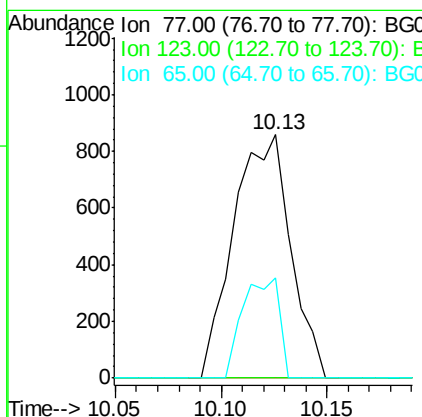
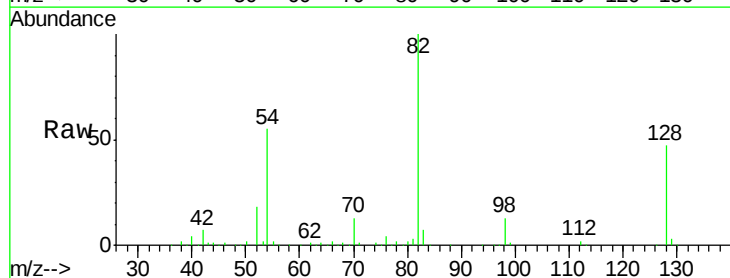
Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion   | 82    | Resp  | 519360 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 45.1  | 29.7  | 44.5#  |
| 54        | 54.5  | 43.1  | 64.7   |



#24  
 Nitrobenzene  
 Concen: 6.681 ng  
 RT: 10.13 min Scan# 1164  
 Delta R.T. -0.04 min  
 Lab File: BG032920.D  
 Acq: 1 Mar 2018 16:58

| Tgt Ion   | 77    | Resp  | 1607  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 123       | 0.0   | 33.0  | 49.6# |
| 65        | 41.2  | 13.0  | 19.6# |

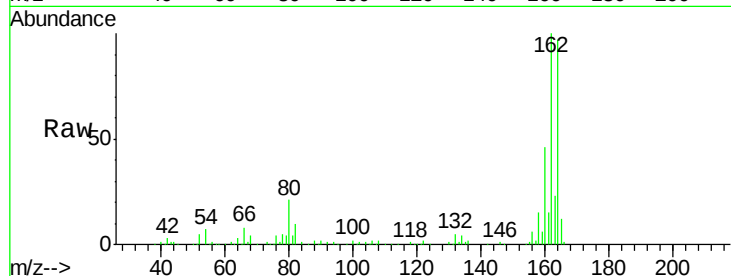




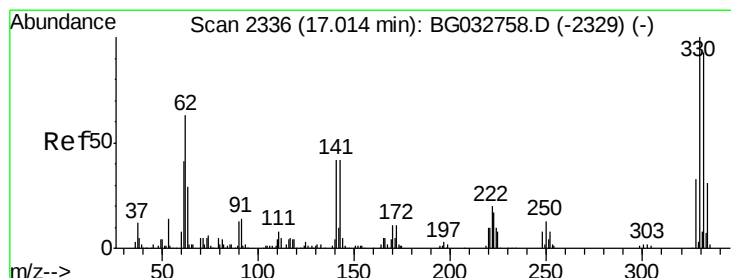
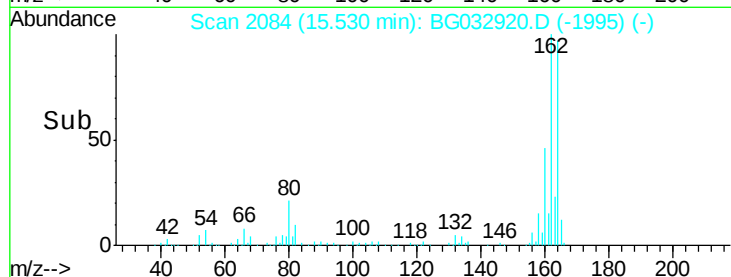
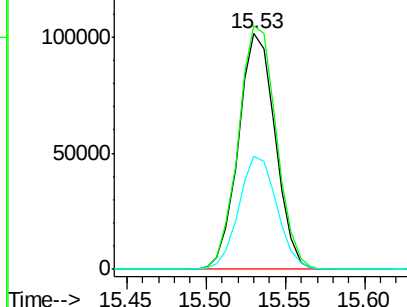
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.53 min Scan# 2084  
Delta R.T. -0.01 min  
Lab File: BG032920.D  
Acq: 1 Mar 2018 16:58

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 163491  
Ion Ratio Lower Upper  
164 100  
162 103.3 78.8 118.2  
160 48.0 35.4 53.0

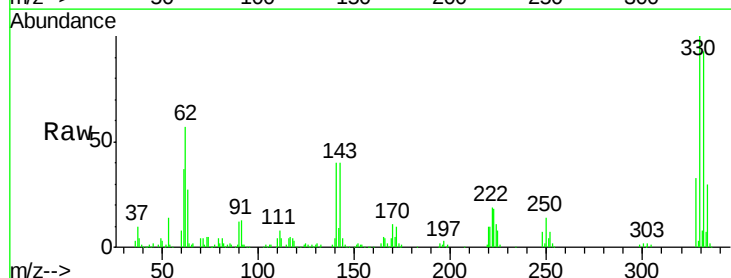


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

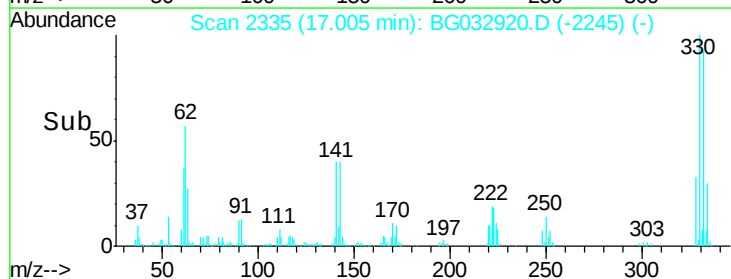
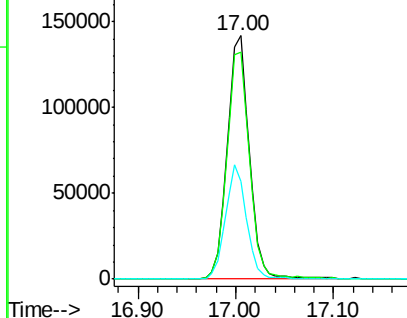


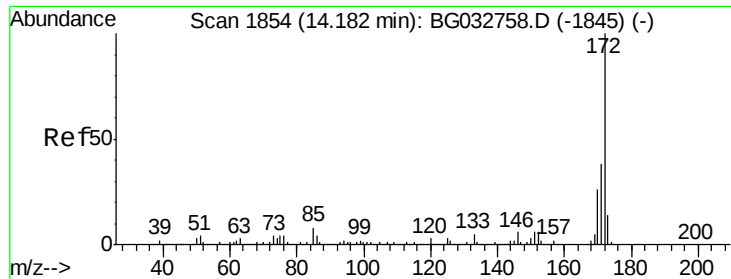
#41  
2,4,6-Tribromophenol  
Concen: 129.364 ng  
RT: 17.00 min Scan# 2335  
Delta R.T. 0.00 min  
Lab File: BG032920.D  
Acq: 1 Mar 2018 16:58

Tgt Ion:330 Resp: 222384  
Ion Ratio Lower Upper  
330 100  
332 96.1 77.0 115.6  
141 44.8 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

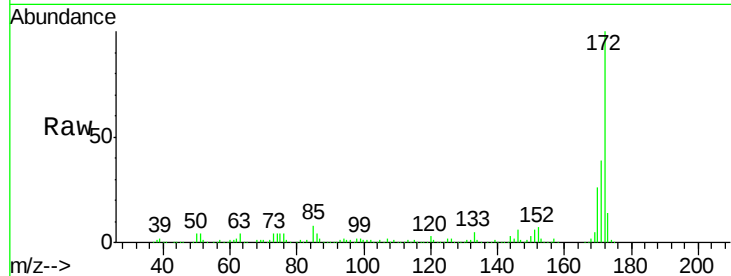




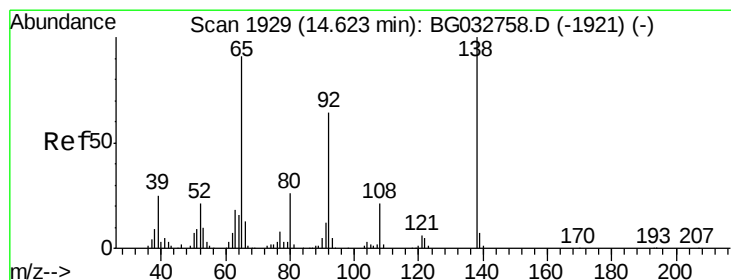
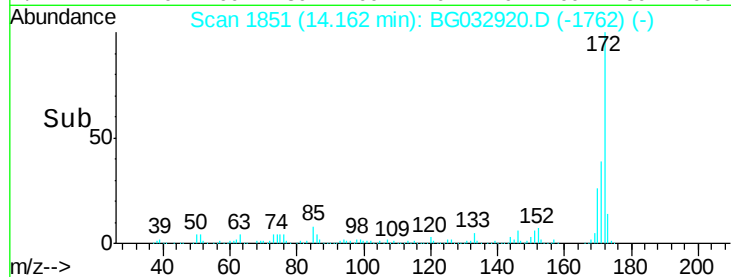
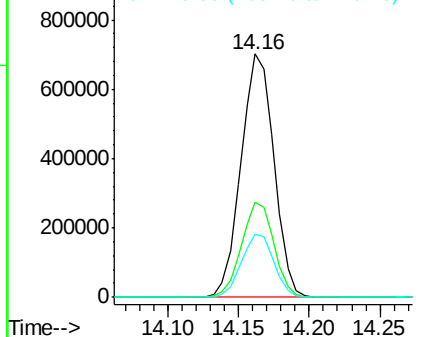
#44  
2-Fluorobiphenyl  
Concen: 101.021 ng  
RT: 14.16 min Scan# 1851  
Delta R.T. -0.01 min  
Lab File: BG032920.D  
Acq: 1 Mar 2018 16:58

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:172 Resp: 1145152  
Ion Ratio Lower Upper  
172 100  
171 38.9 30.0 45.0  
170 25.9 19.5 29.3

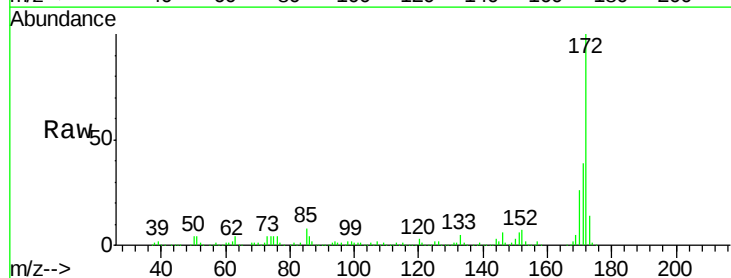


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

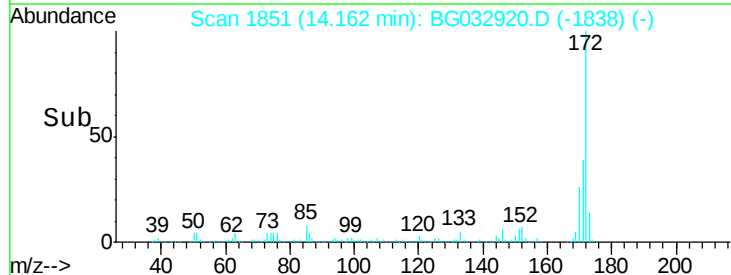
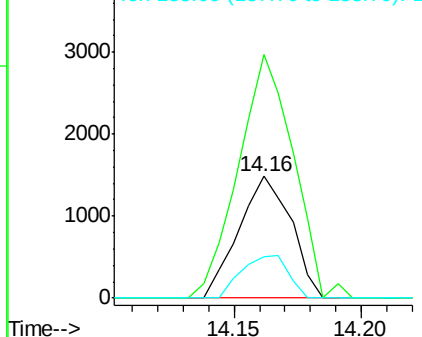


#47  
2-Nitroaniline  
Concen: 10.466 ng  
RT: 14.16 min Scan# 1851  
Delta R.T. -0.45 min  
Lab File: BG032920.D  
Acq: 1 Mar 2018 16:58

Tgt Ion: 65 Resp: 2134  
Ion Ratio Lower Upper  
65 100  
92 200.5 54.6 82.0#  
138 34.0 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): E

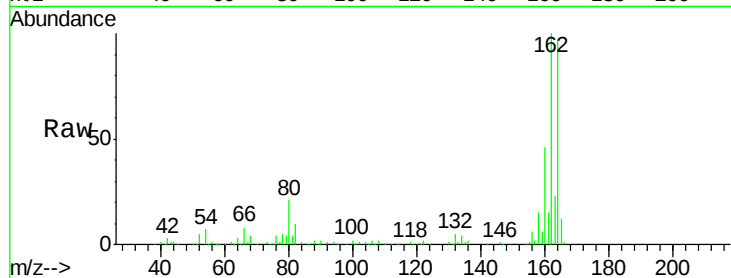




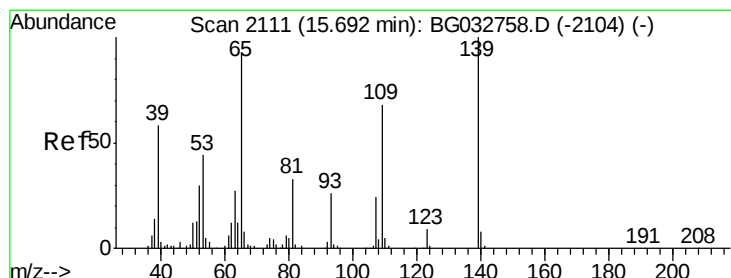
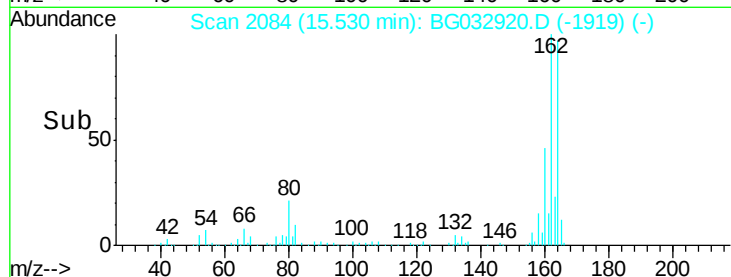
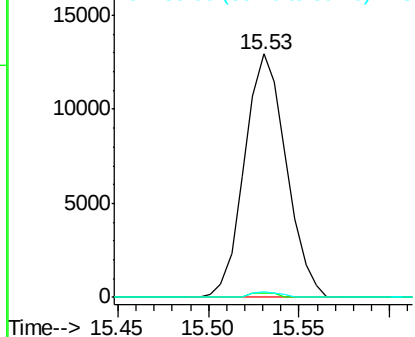
#50  
 2,6-Dinitrotoluene  
 Concen: 16.274 ng  
 RT: 15.53 min Scan# 2084  
 Delta R.T. 0.44 min  
 Lab File: BG032920.D  
 Acq: 1 Mar 2018 16:58

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 20803  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 52.7 79.1#  
 89 2.2 49.2 73.8#

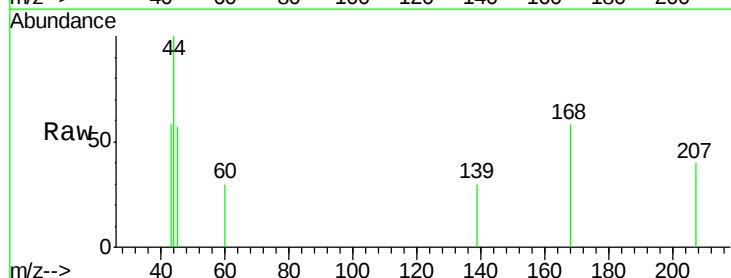


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BG0  
 Ion 89.00 (88.70 to 89.70): BG0

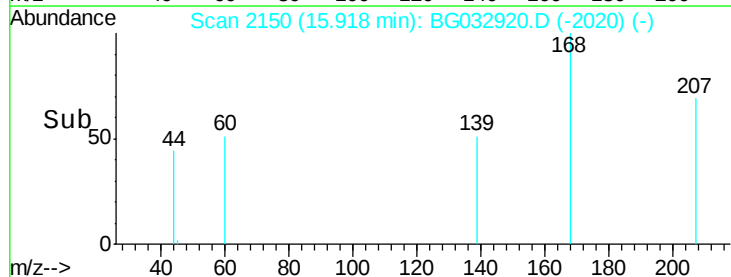
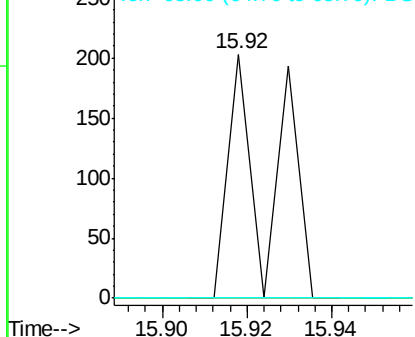


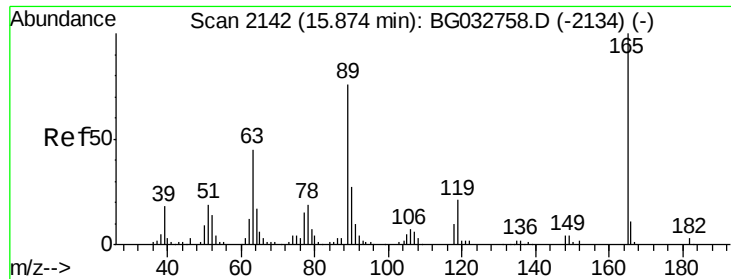
#55  
 4-Nitrophenol  
 Concen: 7.137 ng  
 RT: 15.92 min Scan# 2150  
 Delta R.T. 0.24 min  
 Lab File: BG032920.D  
 Acq: 1 Mar 2018 16:58

Tgt Ion:139 Resp: 140  
 Ion Ratio Lower Upper  
 139 100  
 109 0.0 62.2 102.2#  
 65 0.0 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): BG0

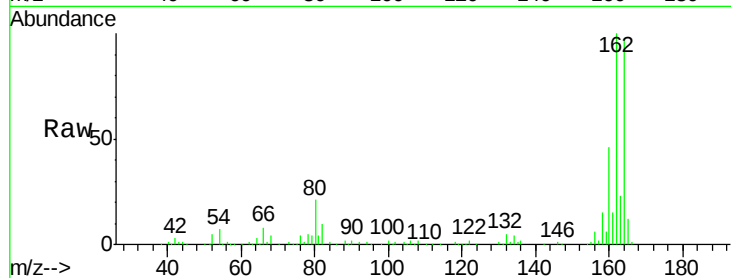




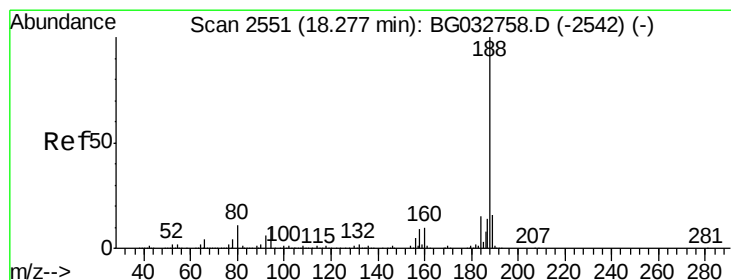
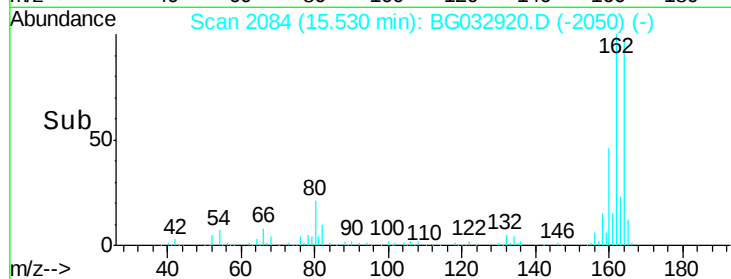
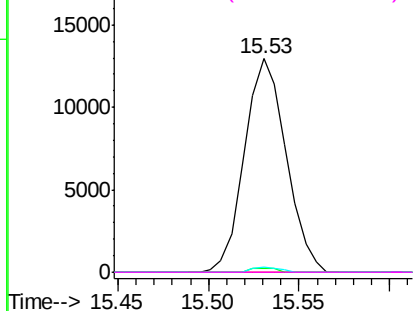
#56  
 2,4-Dinitrotoluene  
 Concen: 14.471 ng  
 RT: 15.53 min Scan# 2084  
 Delta R.T. -0.33 min  
 Lab File: BG032920.D  
 Acq: 1 Mar 2018 16:58

Instrument :  
 BNA\_G  
 ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:165 | Resp: | 20803       |
| Ion Ratio   | Lower | Upper       |
| 165         | 100   |             |
| 63          | 1.9   | 42.0 63.0#  |
| 89          | 2.2   | 66.9 100.3# |
| 182         | 0.0   | 2.6 3.8#    |

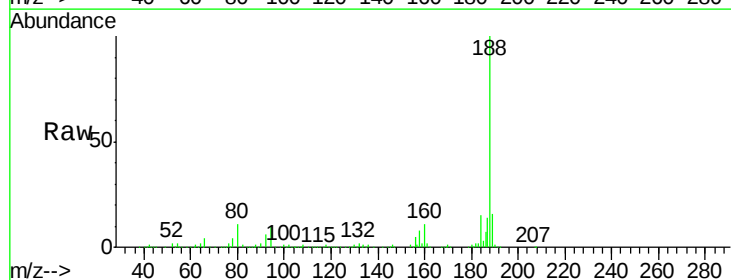


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

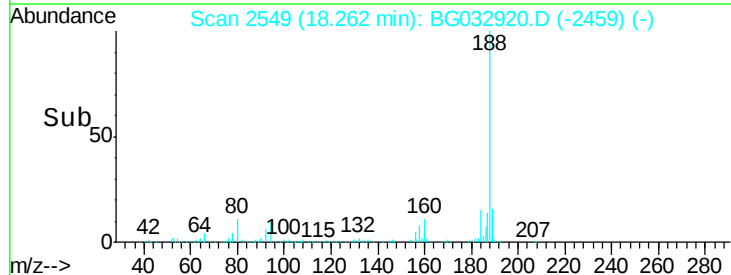
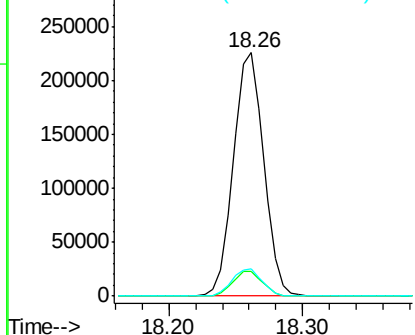


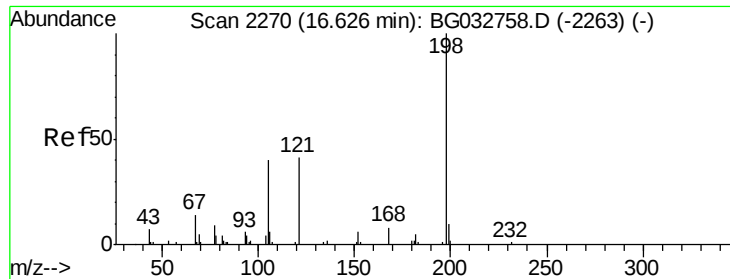
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 18.26 min Scan# 2549  
 Delta R.T. 0.00 min  
 Lab File: BG032920.D  
 Acq: 1 Mar 2018 16:58

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 356973   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 10.2  | 6.9 10.3 |
| 80          | 11.0  | 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

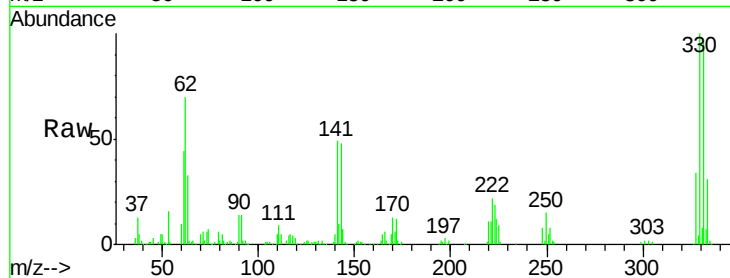




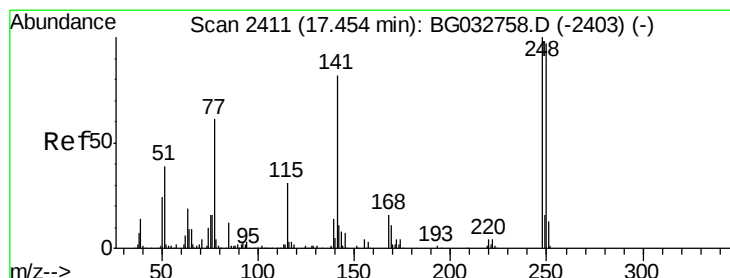
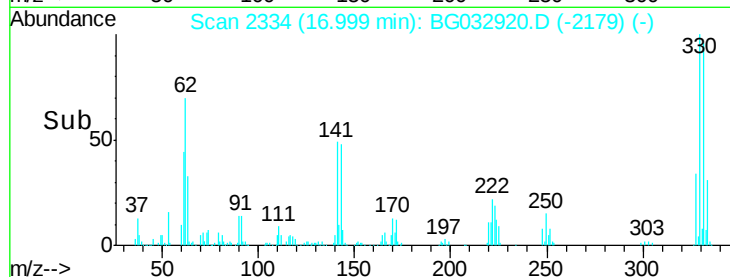
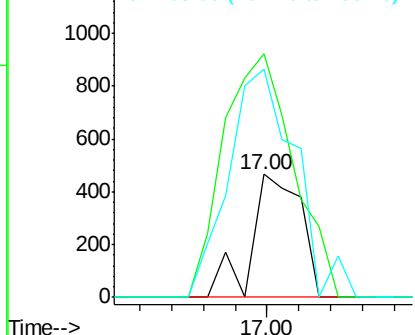
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.550 ng  
 RT: 17.00 min Scan# 2334  
 Delta R.T. 0.38 min  
 Lab File: BG032920.D  
 Acq: 1 Mar 2018 16:58

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:198 Resp: 505  
 Ion Ratio Lower Upper  
 198 100  
 51 197.9 30.6 70.6#  
 105 185.4 23.8 63.8#

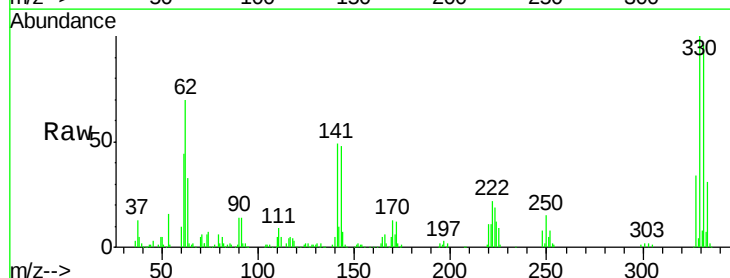


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG0  
 Ion 105.00 (104.70 to 105.70): E

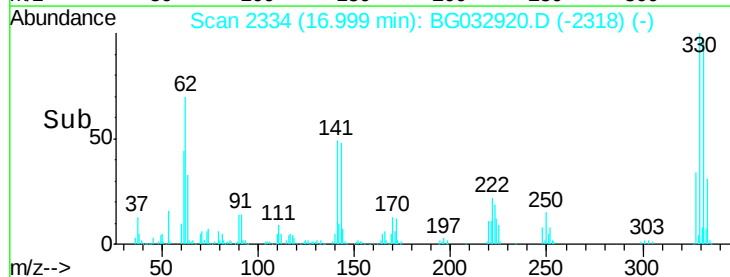
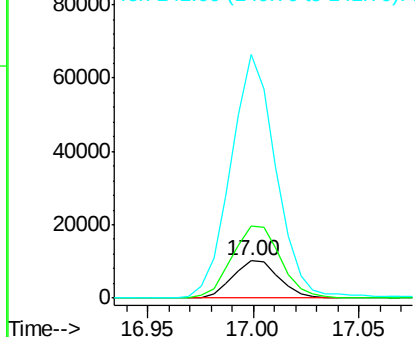


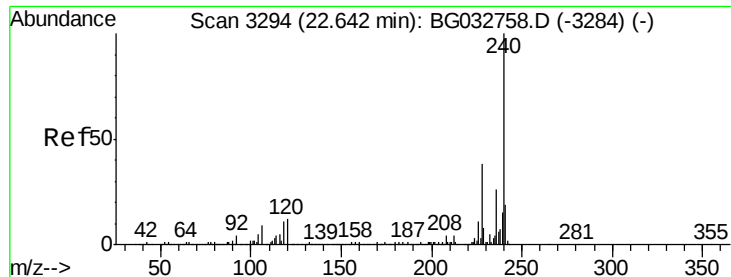
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.112 ng  
 RT: 17.00 min Scan# 2334  
 Delta R.T. -0.43 min  
 Lab File: BG032920.D  
 Acq: 1 Mar 2018 16:58

Tgt Ion:248 Resp: 15520  
 Ion Ratio Lower Upper  
 248 100  
 250 194.8 77.1 115.7#  
 141 652.3 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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.61 min Scan# 3290

Delta R.T. -0.01 min

Lab File: BG032920.D

Acq: 1 Mar 2018 16:58

Instrument :

BNA\_G

ClientSampleId :

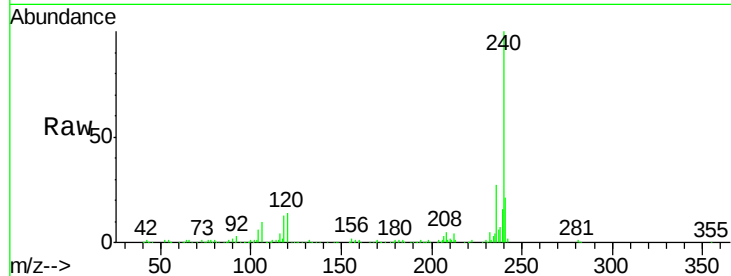
Tot Ion:240 Resp: 324446

Ion Ratio Lower Upper

240 100

120 14.0 6.8 10.2#

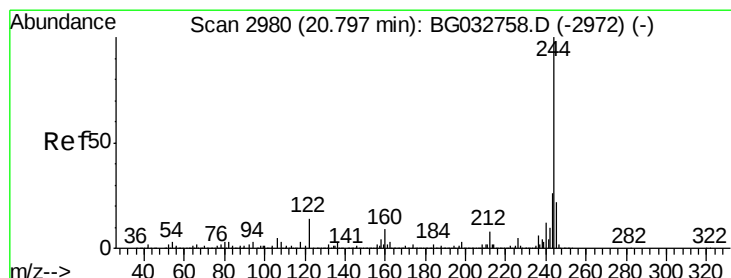
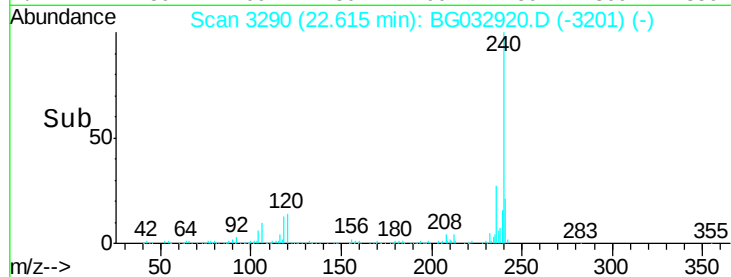
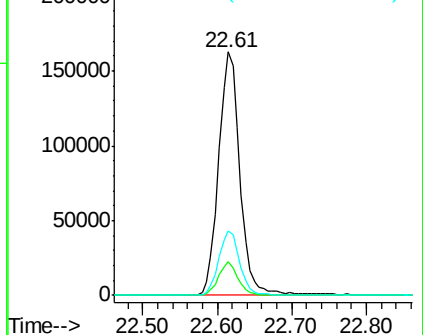
236 26.6 20.9 31.3



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: 105.982 ng

RT: 20.78 min Scan# 2977

Delta R.T. 0.00 min

Lab File: BG032920.D

Acq: 1 Mar 2018 16:58

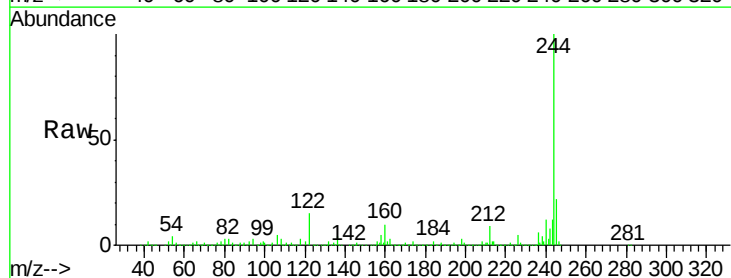
Tgt Ion:244 Resp: 1530462

Ion Ratio Lower Upper

244 100

212 8.5 5.8 8.8

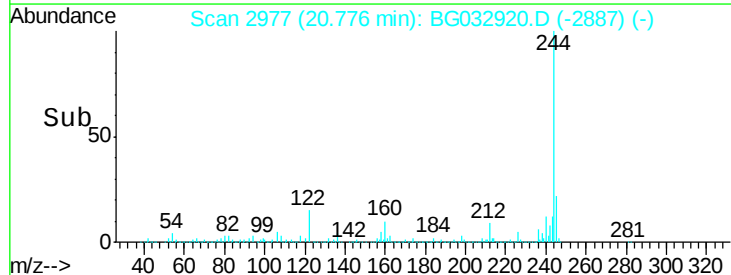
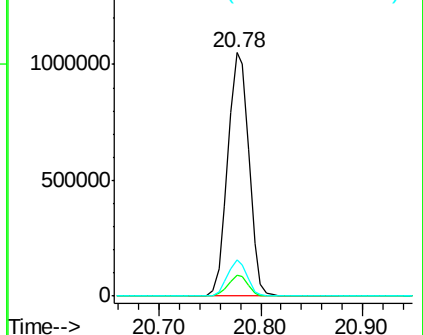
122 15.0 7.0 10.4#

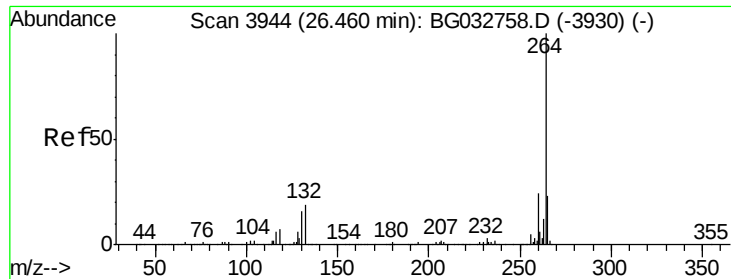


Abundance Ion 244.00 (243.70 to 244.70): E

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: BG032920.D  
Acq: 1 Mar 2018 16:58

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.7  | 17.4  | 26.0  |
| 265     | 19.9  | 17.7  | 26.5  |

