

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG021916\  
 Data File : BG021014.D  
 Acq On : 20 Feb 2016 18:31  
 Operator : SJ/UM  
 Sample : H1453-24 10X  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EGR-B-4

Quant Time: Feb 21 22:54:56 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG021116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 11 15:26:53 2016  
 Response via : Initial Calibration

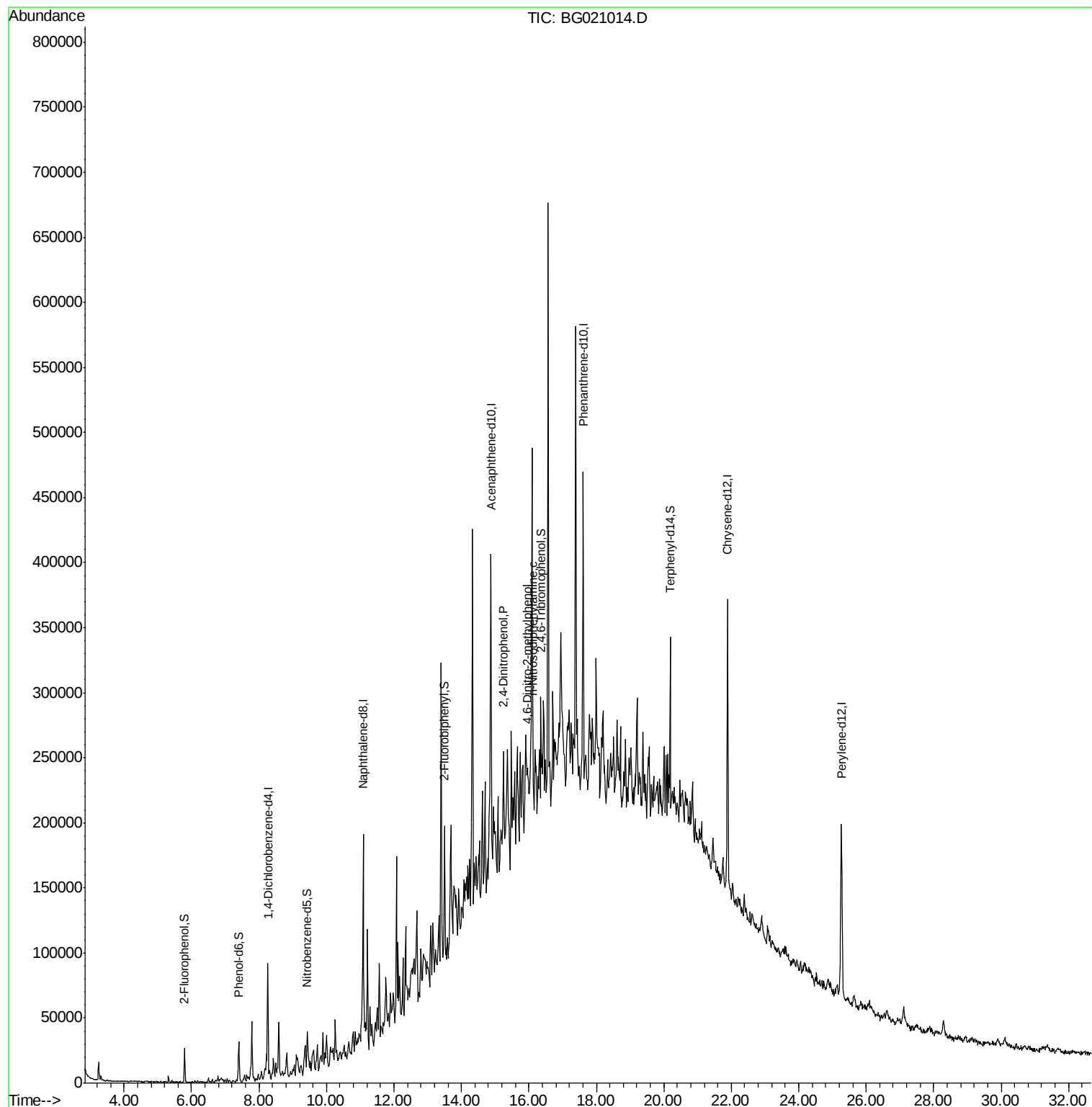
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.26  | 152  | 28311    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 11.09 | 136  | 136182   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 14.88 | 164  | 70977    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10           | 17.61 | 188  | 130204   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 21.89 | 240  | 123225   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12               | 25.26 | 264  | 122490   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.79  | 112  | 15263    | 9.08  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.40  | 99   | 15750    | 6.41  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.43  | 82   | 19999    | 9.66  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.35 | 330  | 9952     | 14.26 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 13.50 | 172  | 52770    | 10.44 | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.19 | 244  | 46919    | 8.88  | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 53) 2,4-Dinitrophenol          | 15.24 | 184  | 72       | 8.55  | ng    | # 1      |
| 64) 4,6-Dinitro-2-methylphenol | 15.96 | 198  | 165      | 5.73  | ng    | # 1      |
| 65) n-Nitrosodiphenylamine     | 16.12 | 169  | 15599    | 3.71  | ng    | # 42     |

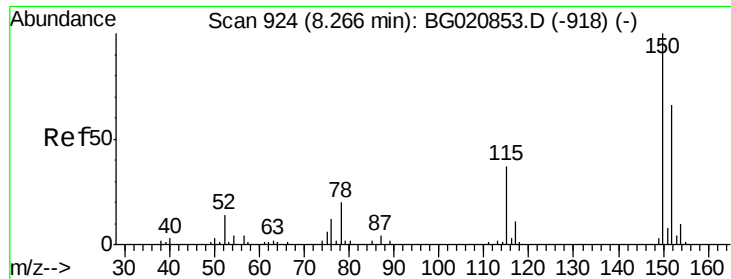
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG021916\  
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Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
EGR-B-4

Quant Time: Feb 21 22:54:56 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG021116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 11 15:26:53 2016  
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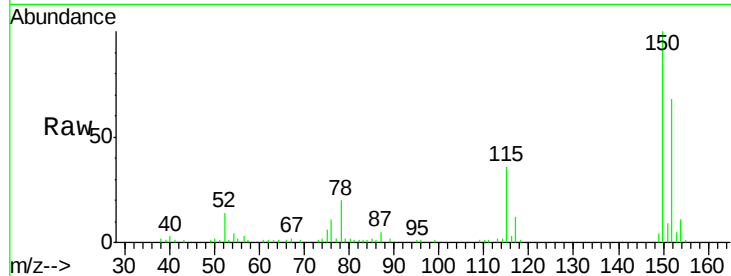


#1

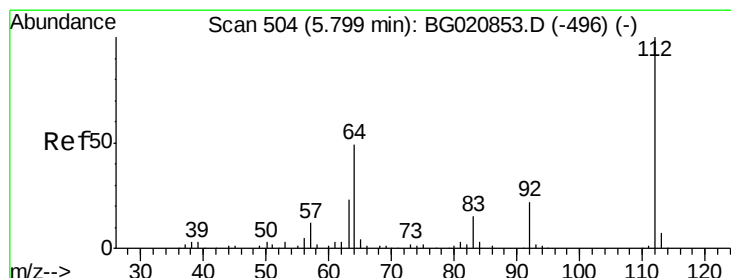
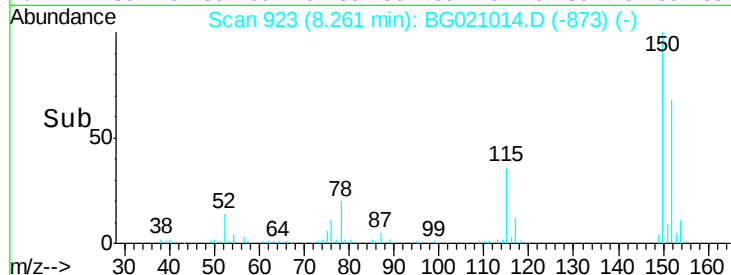
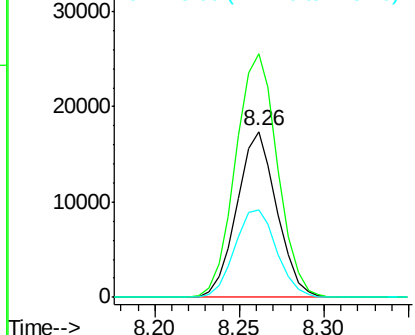
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.26 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BG021014.D  
Acq: 20 Feb 2016 18:31

Instrument :  
BNA\_G  
ClientSampleId :  
EGR-B-4

Tgt Ion:152 Resp: 28311  
Ion Ratio Lower Upper  
152 100  
150 146.9 122.0 183.0  
115 52.5 45.2 67.8



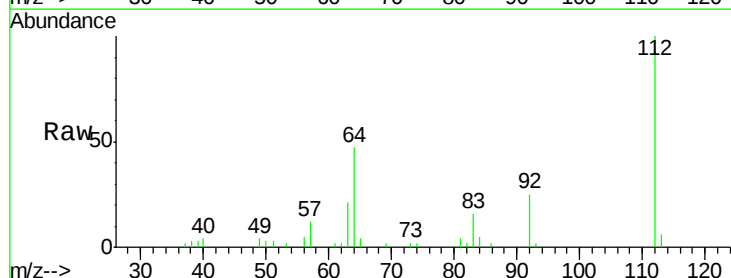
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



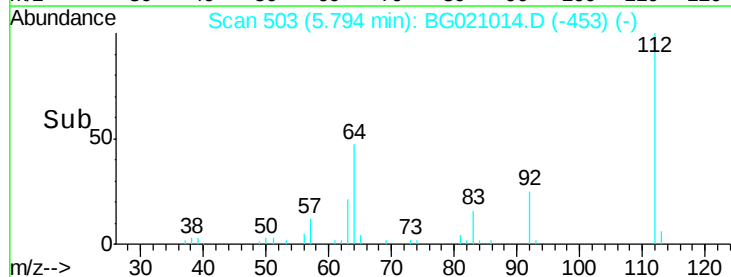
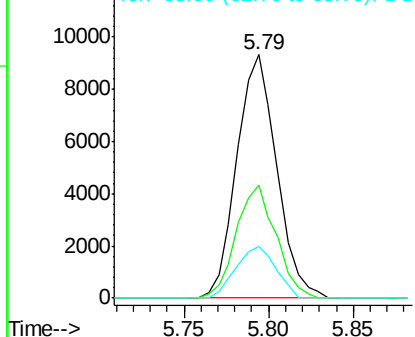
#5

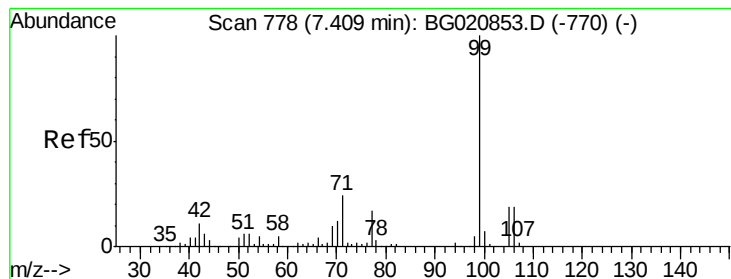
2-Fluorophenol  
Concen: 9.08 ng  
RT: 5.79 min Scan# 503  
Delta R.T. -0.01 min  
Lab File: BG021014.D  
Acq: 20 Feb 2016 18:31

Tgt Ion:112 Resp: 15263  
Ion Ratio Lower Upper  
112 100  
64 46.5 39.3 58.9  
63 21.4 18.2 27.4



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: 6.41 ng

RT: 7.40 min Scan# 777

Delta R.T. -0.01 min

Lab File: BG021014.D

Acq: 20 Feb 2016 18:31

Instrument :

BNA\_G

ClientSampleId :

EGR-B-4

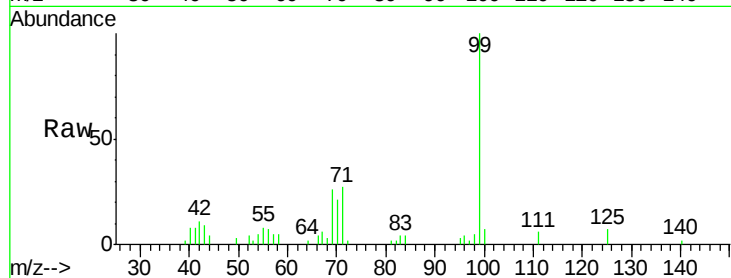
Tgt Ion: 99 Resp: 15750

Ion Ratio Lower Upper

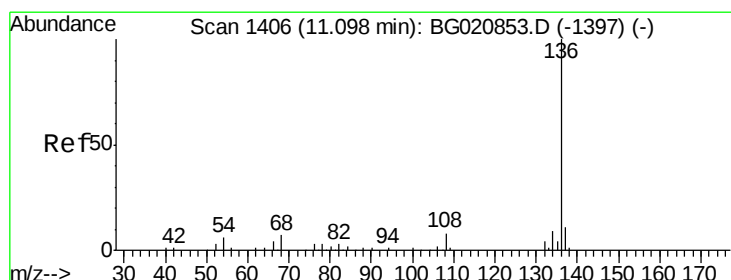
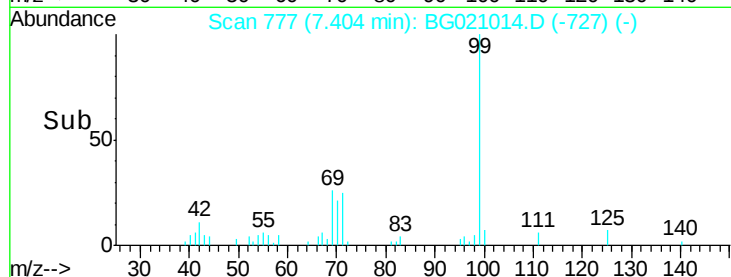
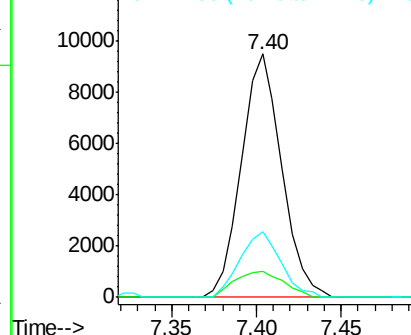
99 100

42 10.6 8.4 12.6

71 26.9 19.4 29.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.09 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BG021014.D

Acq: 20 Feb 2016 18:31

Tgt Ion: 136 Resp: 136182

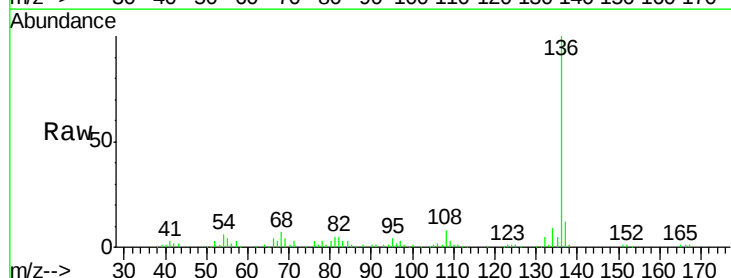
Ion Ratio Lower Upper

136 100

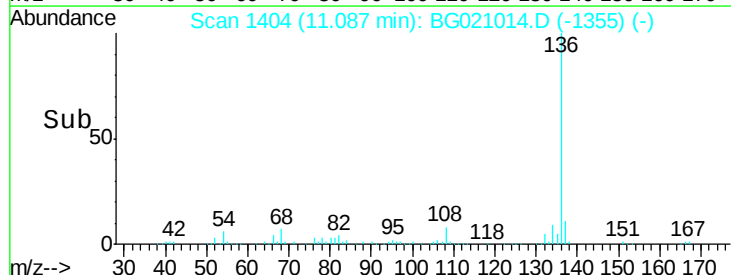
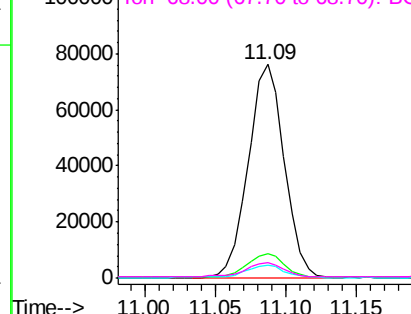
137 11.6 8.8 13.2

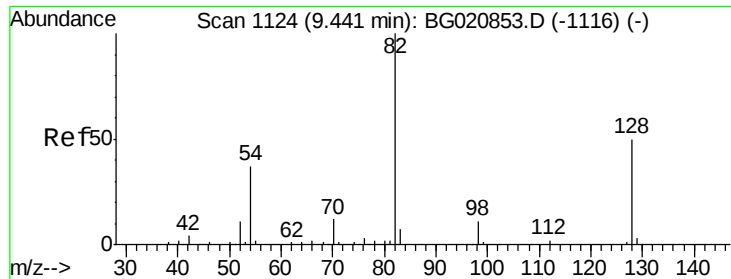
54 6.2 5.0 7.4

68 7.1 5.2 7.8



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

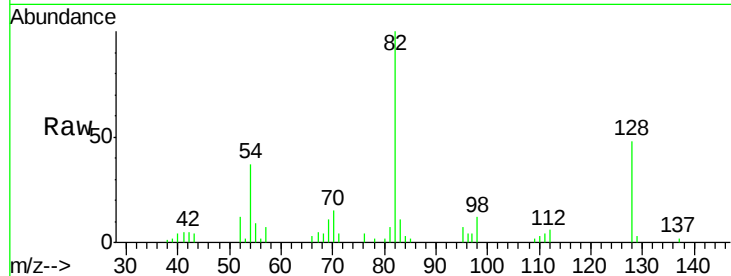




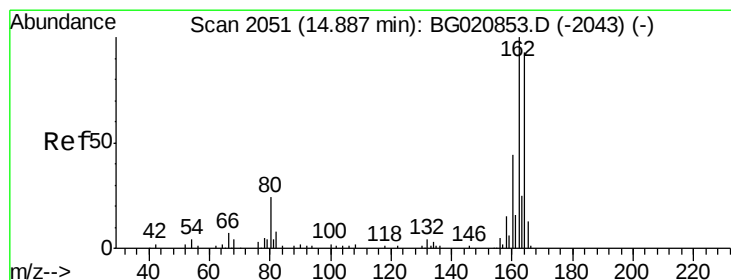
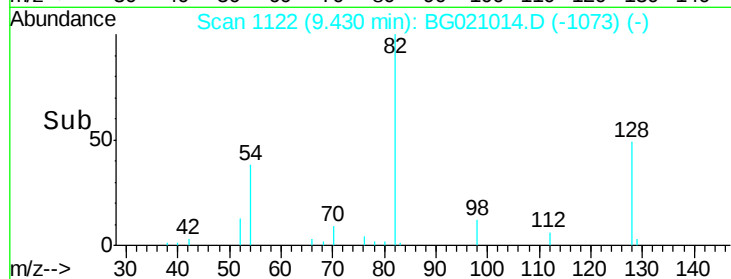
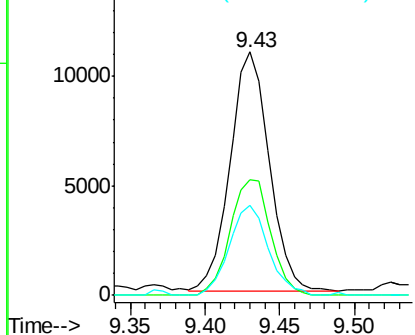
#23  
Nitrobenzene-d5  
Concen: 9.66 ng  
RT: 9.43 min Scan# 1122  
Delta R.T. -0.01 min  
Lab File: BG021014.D  
Acq: 20 Feb 2016 18:31

Instrument :  
BNA\_G  
ClientSampled :  
EGR-B-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 47.6  | 40.1  | 60.1  |
| 54      | 36.7  | 29.5  | 44.3  |

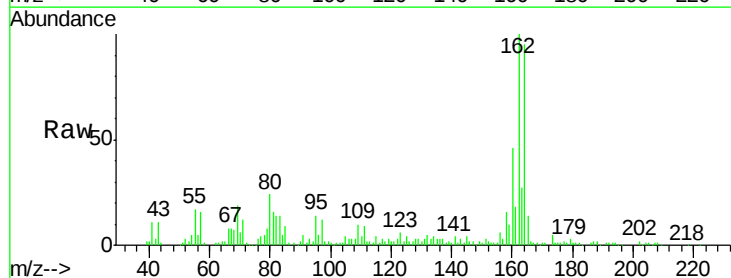


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

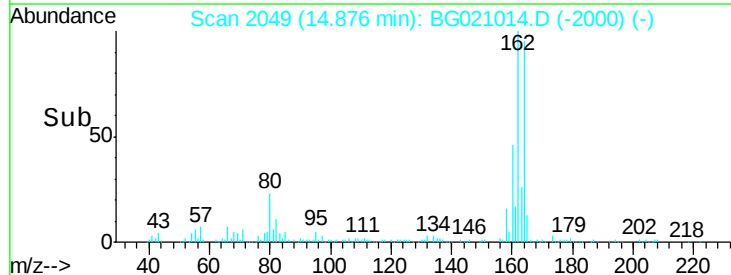
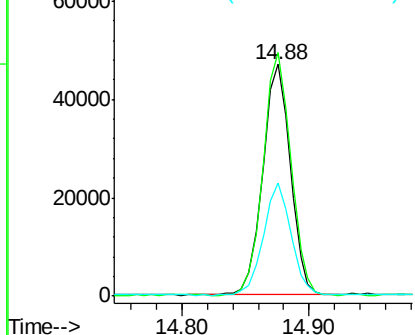


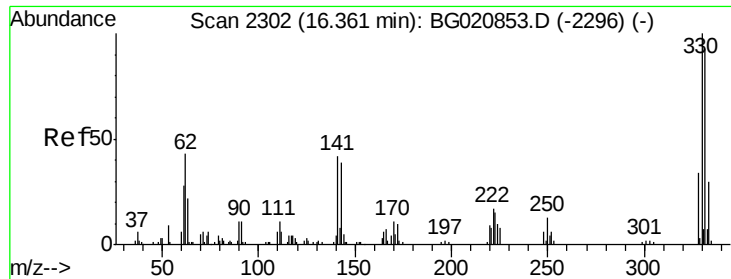
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.88 min Scan# 2049  
Delta R.T. -0.01 min  
Lab File: BG021014.D  
Acq: 20 Feb 2016 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.9 | 85.7  | 128.5 |
| 160     | 48.6  | 37.4  | 56.0  |



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

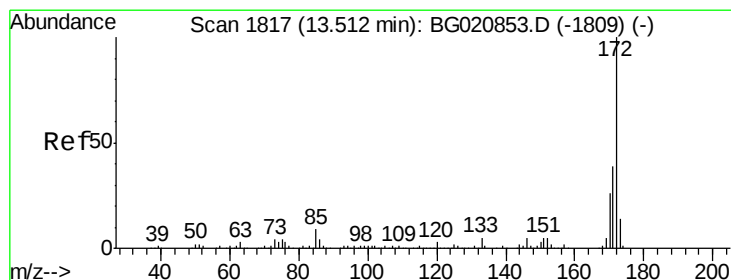
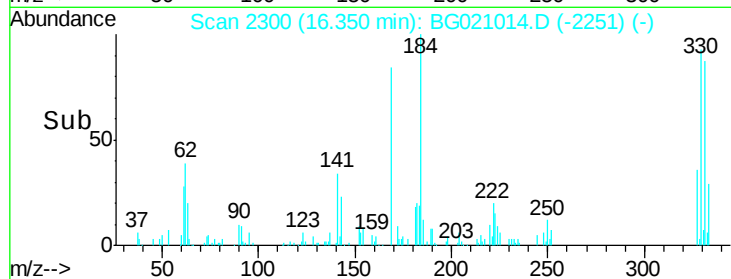
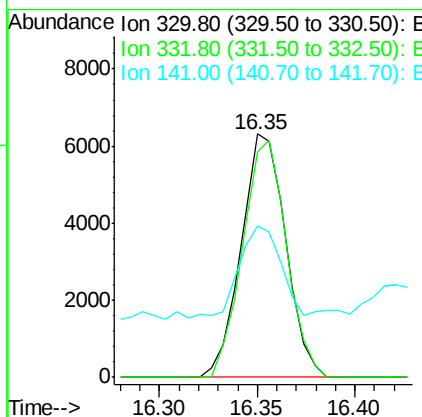
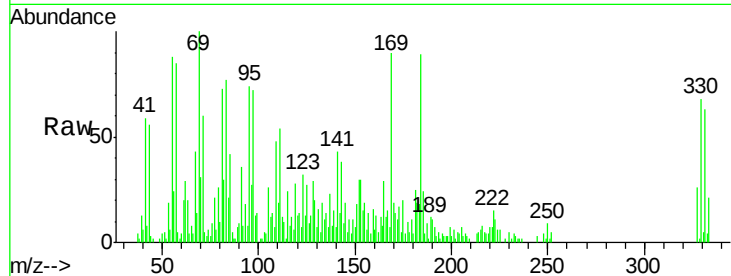




#41  
 2,4,6-Tribromophenol  
 Concen: 14.26 ng  
 RT: 16.35 min Scan# 2300  
 Delta R.T. -0.01 min  
 Lab File: BG021014.D  
 Acq: 20 Feb 2016 18:31

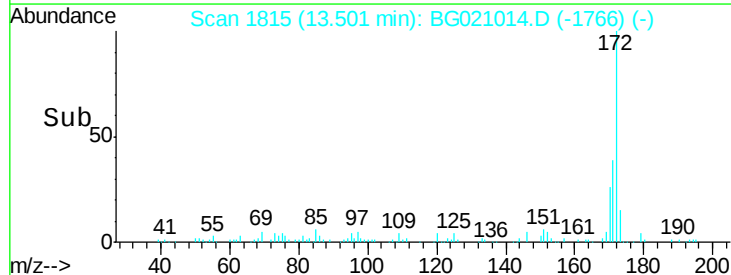
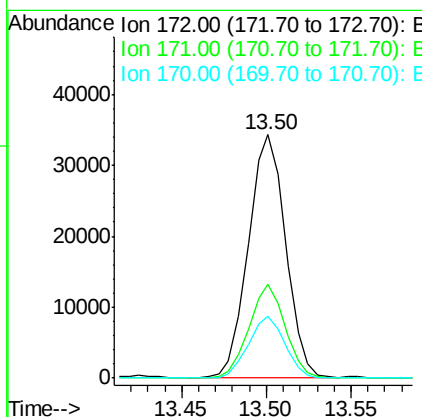
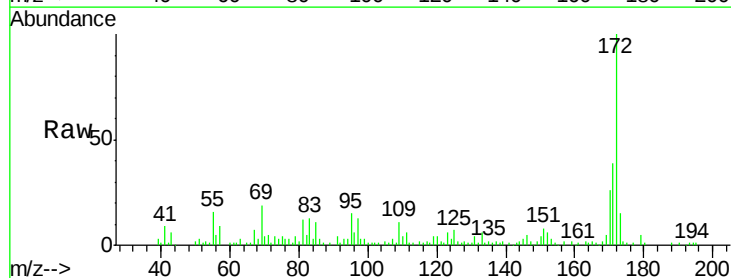
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EGR-B-4

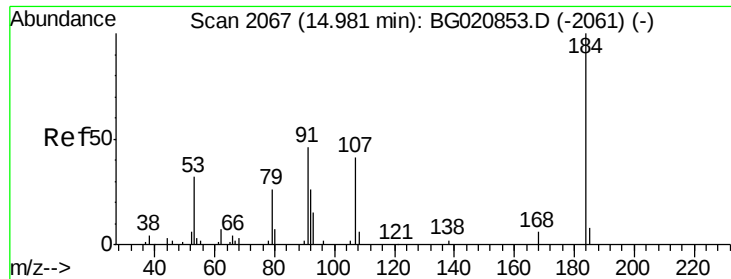
Tgt Ion: 330 Resp: 9952  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 76.1 114.1  
 141 40.0 32.0 48.0



#44  
 2-Fluorobiphenyl  
 Concen: 10.44 ng  
 RT: 13.50 min Scan# 1815  
 Delta R.T. -0.01 min  
 Lab File: BG021014.D  
 Acq: 20 Feb 2016 18:31

Tgt Ion: 172 Resp: 52770  
 Ion Ratio Lower Upper  
 172 100  
 171 38.7 31.2 46.8  
 170 25.6 20.6 30.8

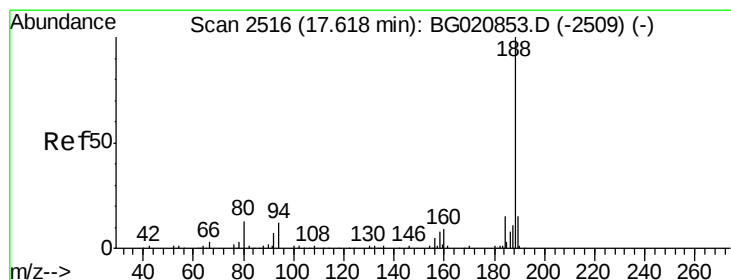
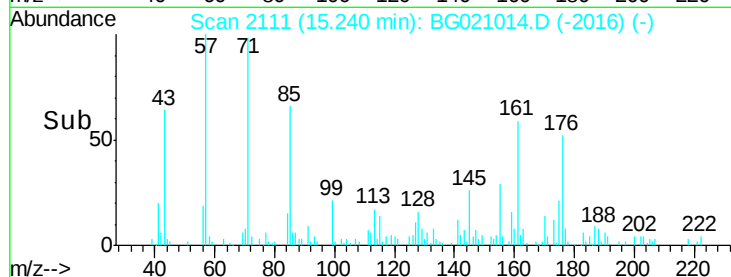
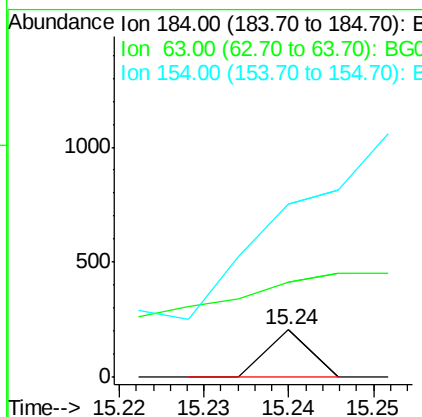
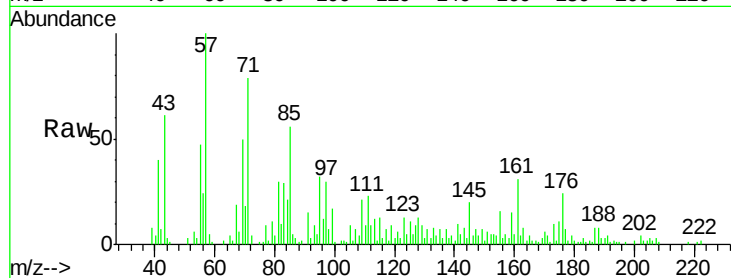




#53  
 2,4-Dinitrophenol  
 Concen: 8.55 ng  
 RT: 15.24 min Scan# 2111  
 Delta R.T. 0.26 min  
 Lab File: BG021014.D  
 Acq: 20 Feb 2016 18:31

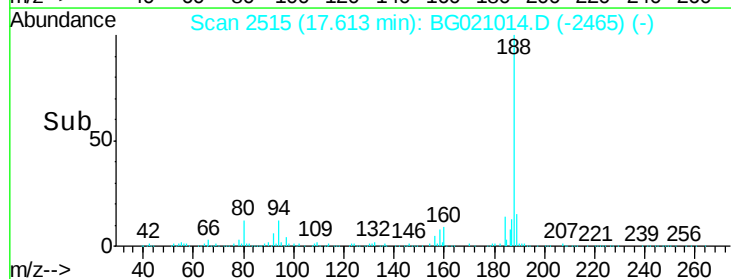
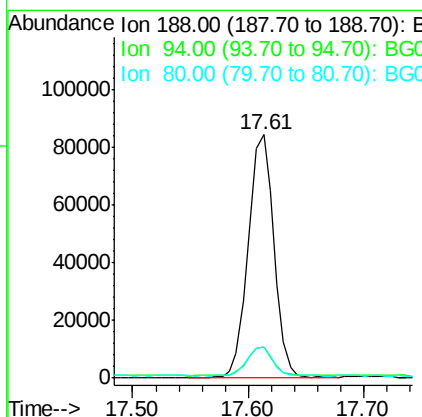
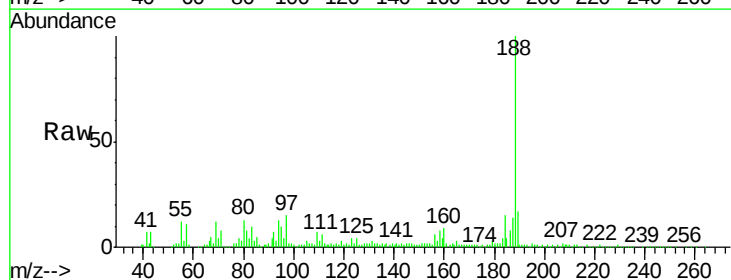
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EGR-B-4

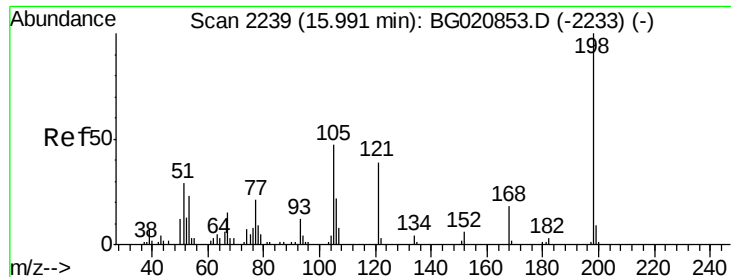
Tgt Ion:184 Resp: 72  
 Ion Ratio Lower Upper  
 184 100  
 63 202.4 39.8 59.6#  
 154 366.8 48.1 72.1#



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.61 min Scan# 2515  
 Delta R.T. -0.01 min  
 Lab File: BG021014.D  
 Acq: 20 Feb 2016 18:31

Tgt Ion:188 Resp: 130204  
 Ion Ratio Lower Upper  
 188 100  
 94 12.9 9.4 14.0  
 80 12.7 10.2 15.4





#64

4,6-Dinitro-2-methylphenol

Concen: 5.73 ng

RT: 15.96 min Scan# 2233

Delta R.T. -0.03 min

Lab File: BG021014.D

Acq: 20 Feb 2016 18:31

Instrument :

BNA\_G

ClientSampleId :

EGR-B-4

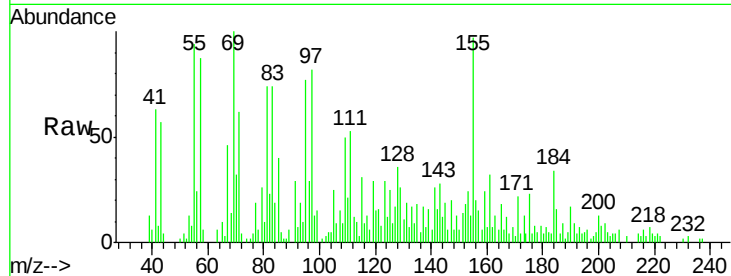
Tgt Ion:198 Resp: 165

Ion Ratio Lower Upper

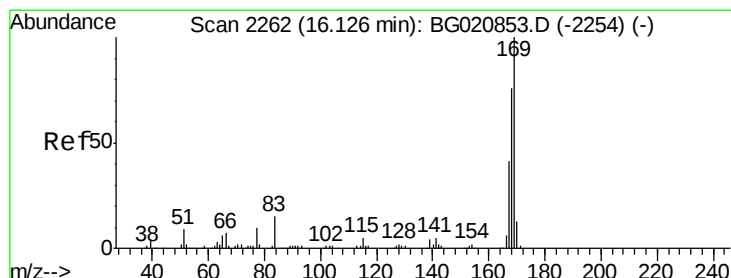
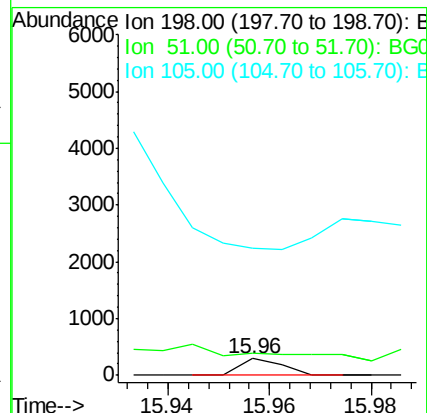
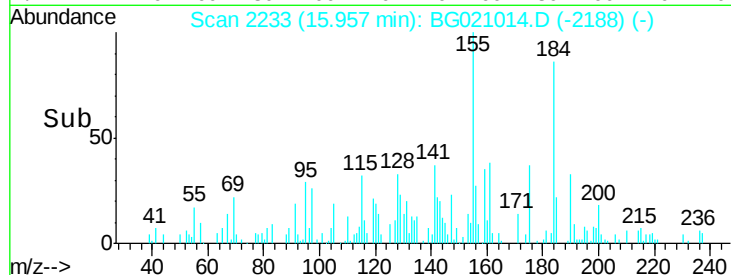
198 100

51 130.6 10.6 50.6#

105 767.7 27.0 67.0#



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



#65

n-Nitrosodiphenylamine

Concen: 3.71 ng

RT: 16.12 min Scan# 2261

Delta R.T. -0.01 min

Lab File: BG021014.D

Acq: 20 Feb 2016 18:31

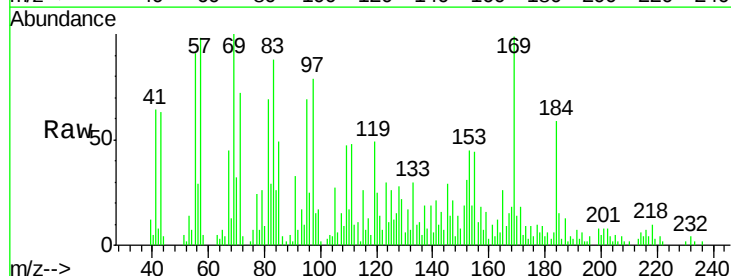
Tgt Ion:169 Resp: 15599

Ion Ratio Lower Upper

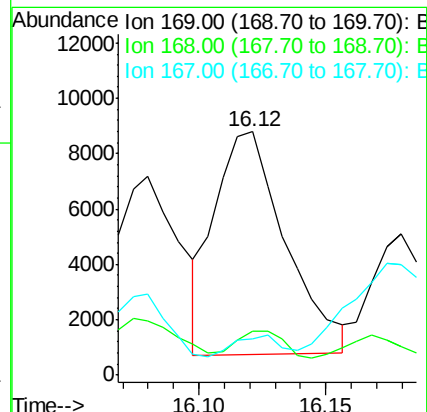
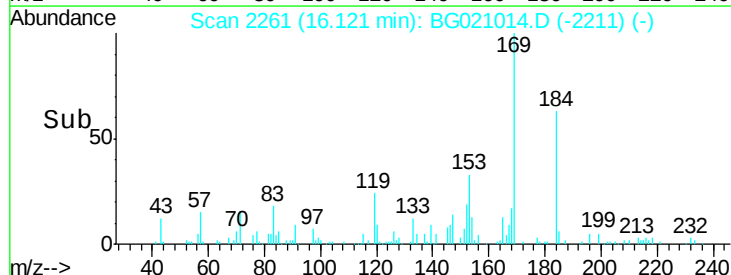
169 100

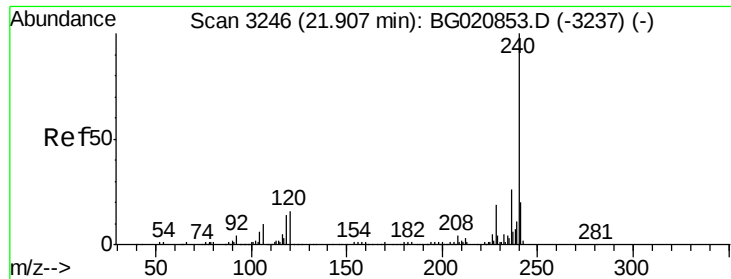
168 18.1 60.7 91.1#

167 15.1 32.8 49.2#



Abundance Ion 169.00 (168.70 to 169.70): E  
Ion 168.00 (167.70 to 168.70): E  
Ion 167.00 (166.70 to 167.70): E

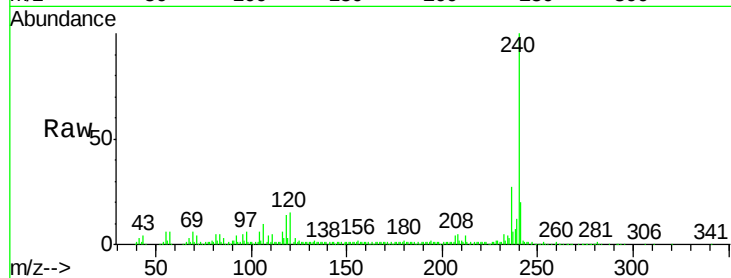




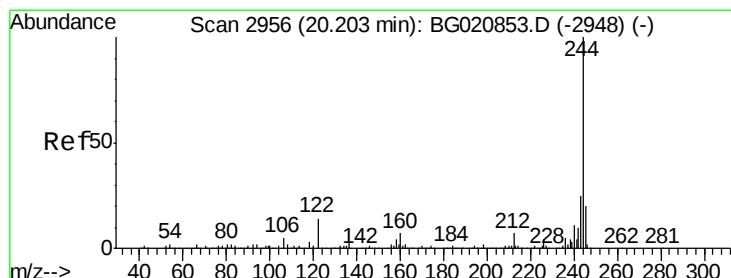
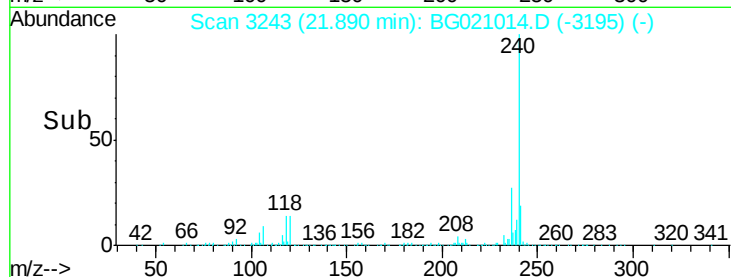
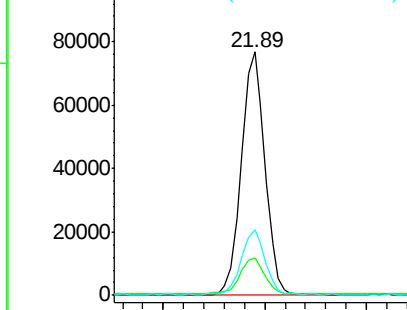
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 21.89 min Scan# 3243  
 Delta R.T. -0.02 min  
 Lab File: BG021014.D  
 Acq: 20 Feb 2016 18:31

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EGR-B-4

Tgt Ion:240 Resp: 123225  
 Ion Ratio Lower Upper  
 240 100  
 120 15.3 13.0 19.4  
 236 26.9 21.0 31.4

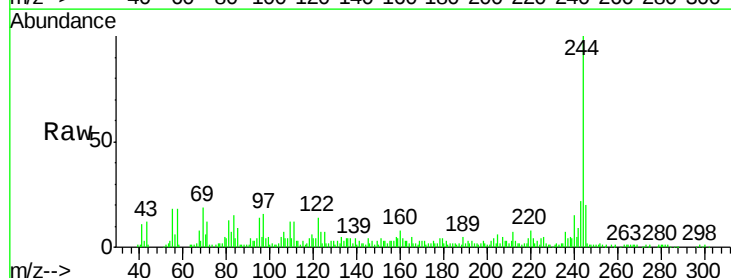


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

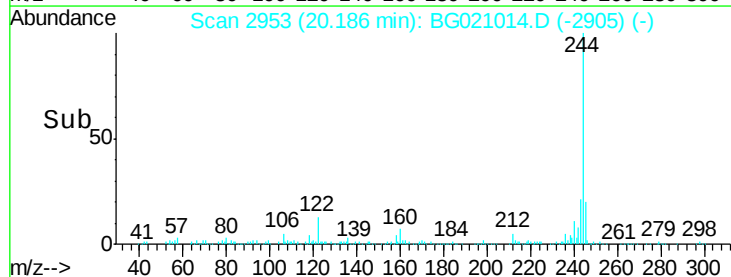
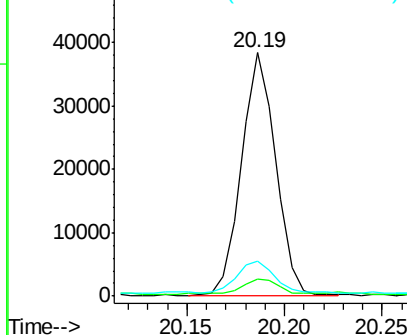


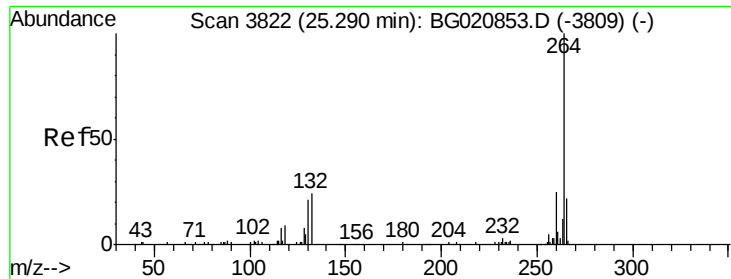
#78  
 Terphenyl-d14  
 Concen: 8.88 ng  
 RT: 20.19 min Scan# 2953  
 Delta R.T. -0.02 min  
 Lab File: BG021014.D  
 Acq: 20 Feb 2016 18:31

Tgt Ion:244 Resp: 46919  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.5 8.3  
 122 14.3 11.4 17.2



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

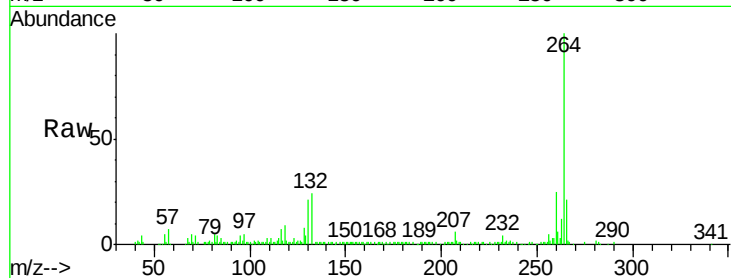




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.26 min Scan# 3817  
Delta R.T. -0.03 min  
Lab File: BG021014.D  
Acq: 20 Feb 2016 18:31

Instrument :  
BNA\_G  
ClientSampleId :  
EGR-B-4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.9  | 29.9  |
| 265     | 21.5  | 18.0  | 27.0  |



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

