

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG071016\  
 Data File : BG022988.D  
 Acq On : 10 Jul 2016 6:49  
 Operator : UM/SJ  
 Sample : H3921-02  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 N8-B1(5-12)C

Quant Time: Jul 11 02:34:55 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG070816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 07 16:51:07 2016  
 Response via : Initial Calibration

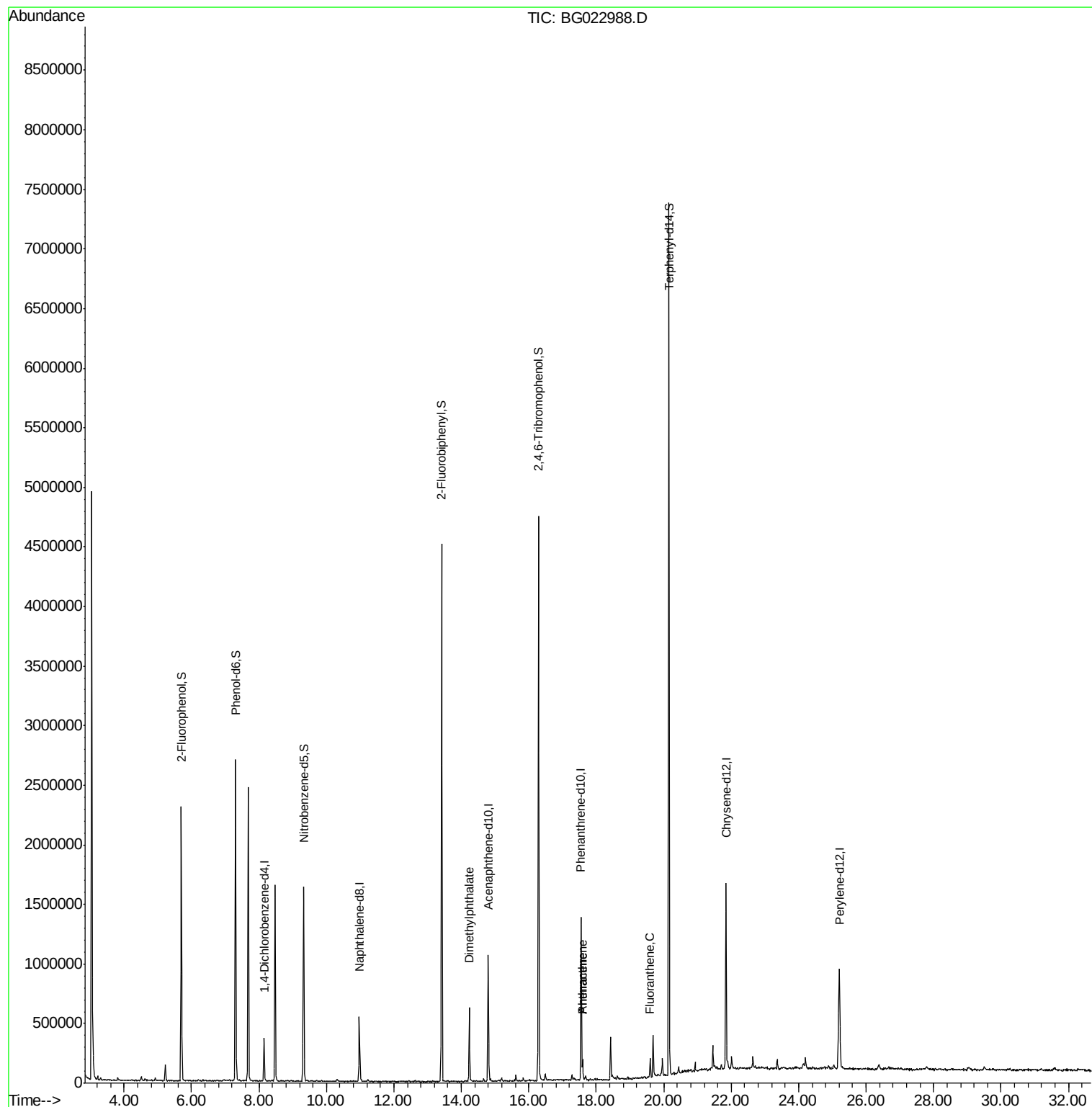
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.15  | 152  | 92770    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.98 | 136  | 441174   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.79 | 164  | 354284   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.55 | 188  | 839717   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.85 | 240  | 915681   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 25.21 | 264  | 922832   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.69  | 112  | 931291   | 164.18 | ng    | 0.00     |
| 7) Phenol-d6                | 7.30  | 99   | 1504740  | 169.37 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.32  | 82   | 1078238  | 104.65 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.29 | 330  | 867014   | 136.17 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.41 | 172  | 2146914  | 95.45  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.15 | 244  | 2750894  | 103.54 | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 14.24 | 163  | 372006   | 12.85  | ng    | 97       |
| 70) Phenanthrene            | 17.59 | 178  | 108495   | 2.64   | ng    | 94       |
| 71) Anthracene              | 17.59 | 178  | 108495   | 2.60   | ng    | 94       |
| 74) Fluoranthene            | 19.60 | 202  | 104843   | 2.08   | ng    | 93       |

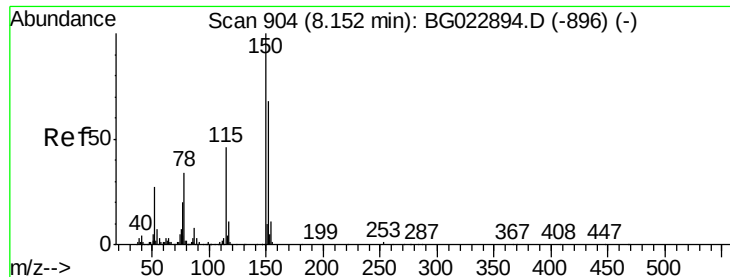
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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N8-B1(5-12)C

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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG070816.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 07 16:51:07 2016  
Response via : Initial Calibration



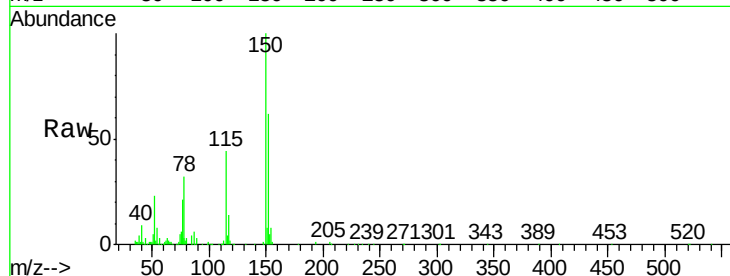


#1

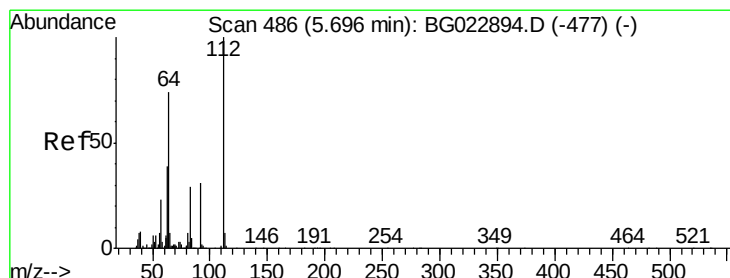
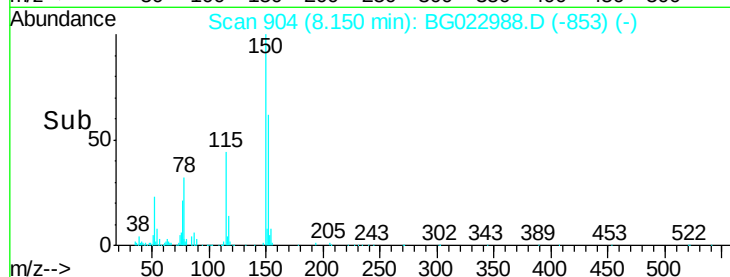
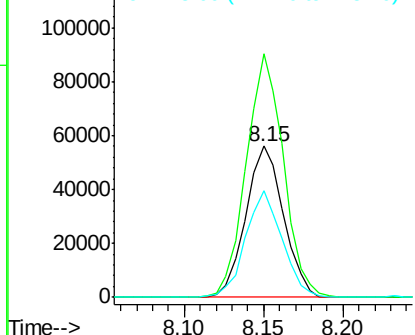
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.15 min Scan# 904  
Delta R.T. -0.00 min  
Lab File: BG022988.D  
Acq: 10 Jul 2016 6:49

Instrument :  
BNA\_G  
ClientSampleId :  
N8-B1(5-12)C

Tgt Ion:152 Resp: 92770  
Ion Ratio Lower Upper  
152 100  
150 160.9 144.7 217.1  
115 70.5 64.0 96.0



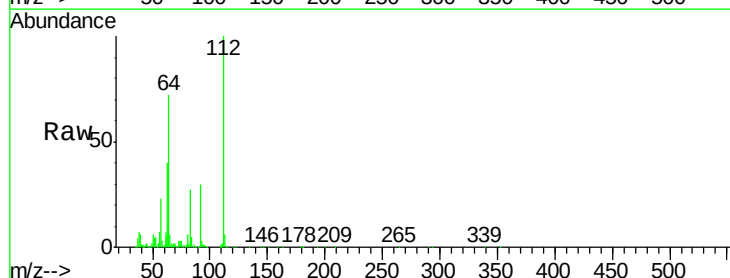
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



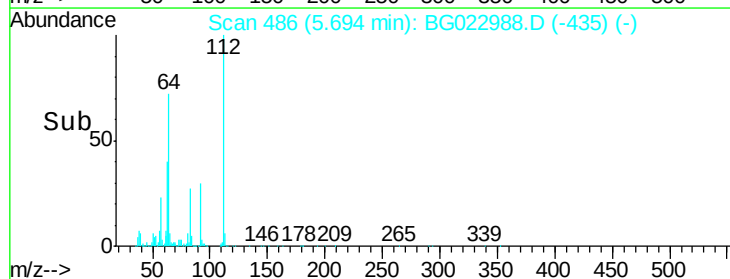
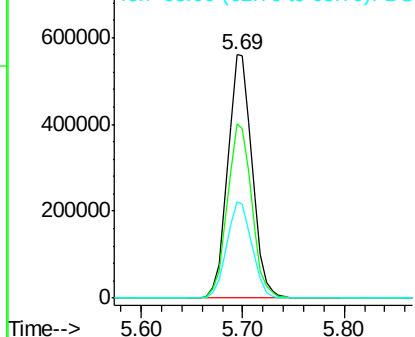
#5

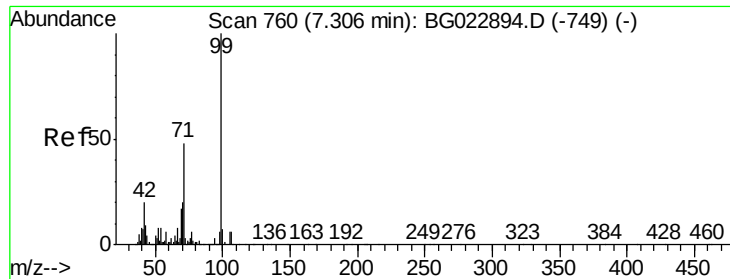
2-Fluorophenol  
Concen: 164.18 ng  
RT: 5.69 min Scan# 486  
Delta R.T. -0.00 min  
Lab File: BG022988.D  
Acq: 10 Jul 2016 6:49

Tgt Ion:112 Resp: 931291  
Ion Ratio Lower Upper  
112 100  
64 71.5 59.0 88.4  
63 39.7 37.8 56.8



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: 169.37 ng

RT: 7.30 min Scan# 760

Delta R.T. -0.00 min

Lab File: BG022988.D

Acq: 10 Jul 2016 6:49

Instrument :

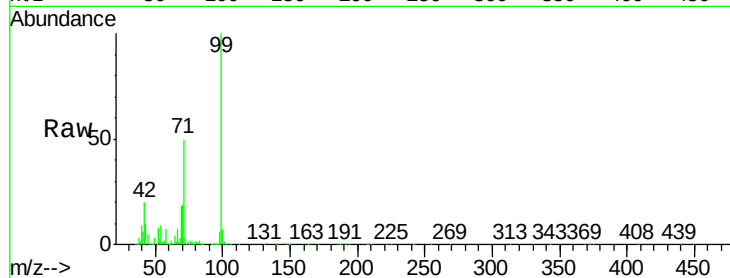
BNA\_G

ClientSampleId :

N8-B1(5-12)C

Tgt Ion: 99 Resp: 1504740

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.5  | 17.8  | 26.6  |
| 71  | 50.2  | 41.5  | 62.3  |

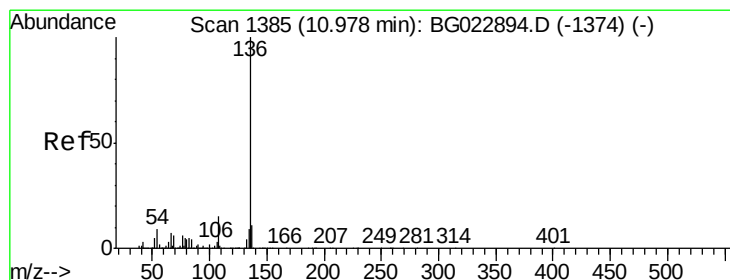
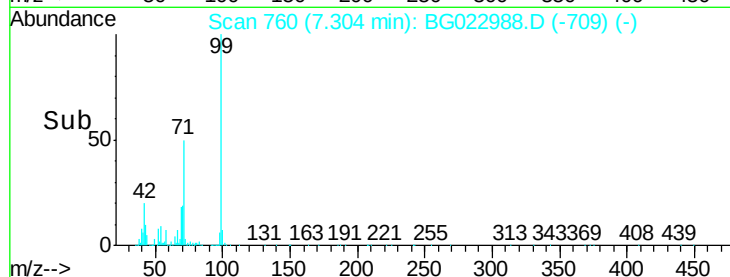
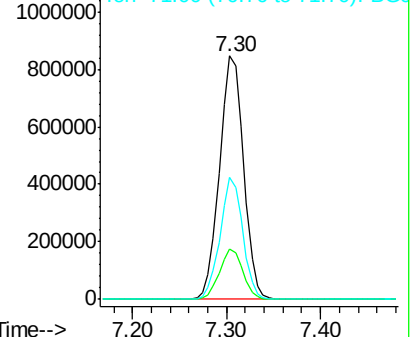


Abundance

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: 10.98 min Scan# 1385

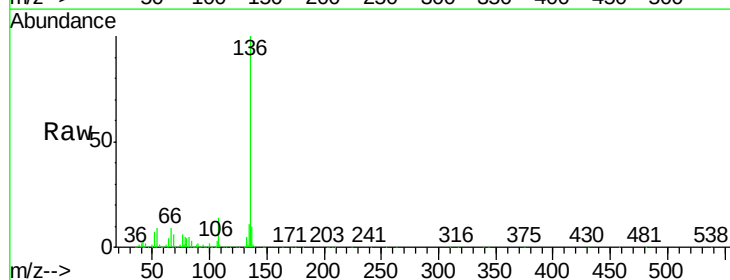
Delta R.T. -0.00 min

Lab File: BG022988.D

Acq: 10 Jul 2016 6:49

Tgt Ion: 136 Resp: 441174

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.0  | 9.6   | 14.4  |
| 54  | 8.7   | 7.3   | 10.9  |
| 68  | 5.8   | 5.3   | 7.9   |



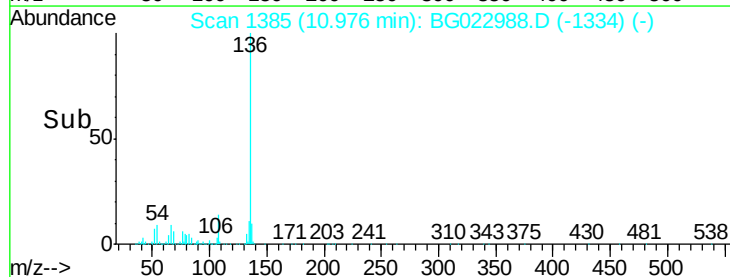
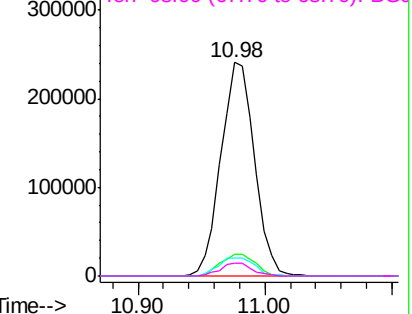
Abundance

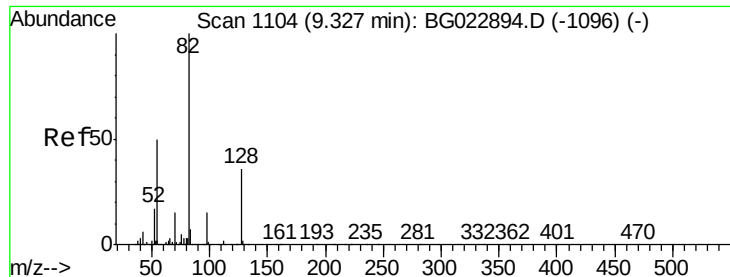
Ion 136.00 (135.70 to 136.70): BGC

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

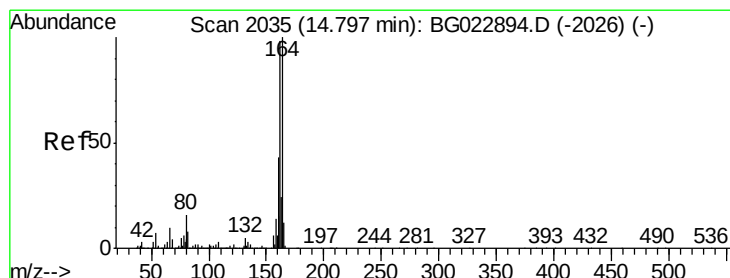
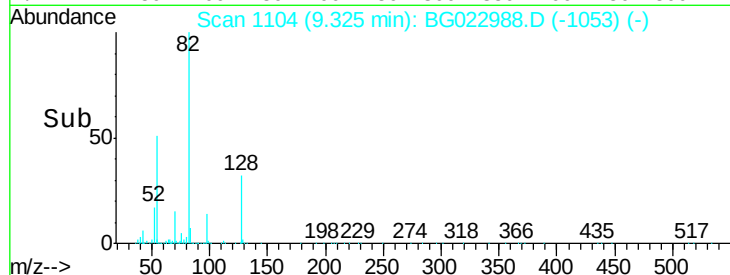
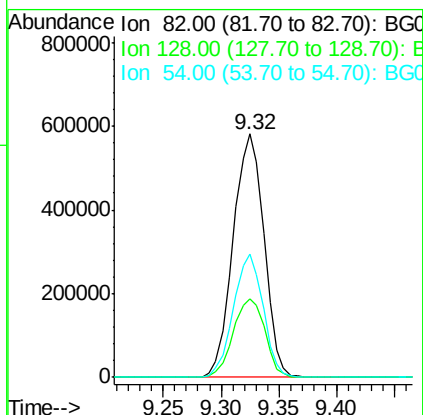
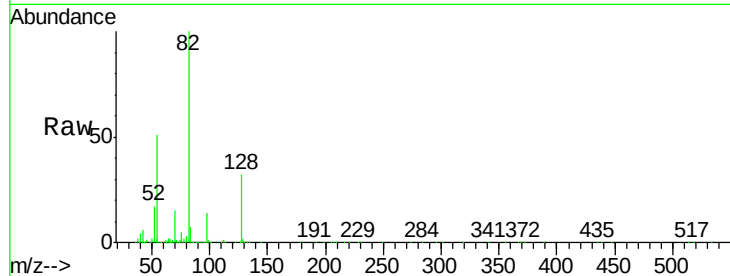




#23  
 Nitrobenzene-d5  
 Concen: 104.65 ng  
 RT: 9.32 min Scan# 1104  
 Delta R.T. -0.00 min  
 Lab File: BG022988.D  
 Acq: 10 Jul 2016 6:49

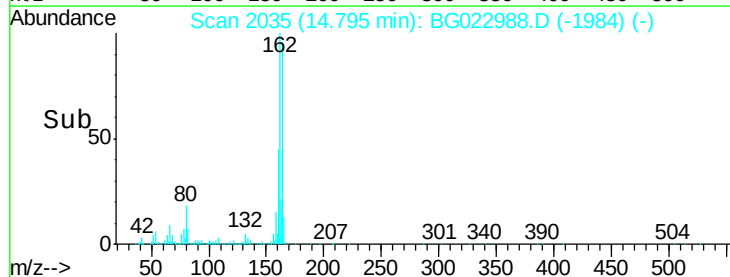
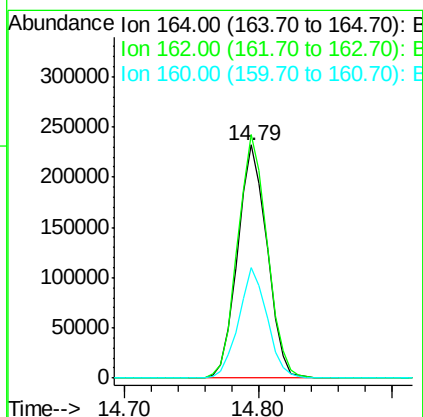
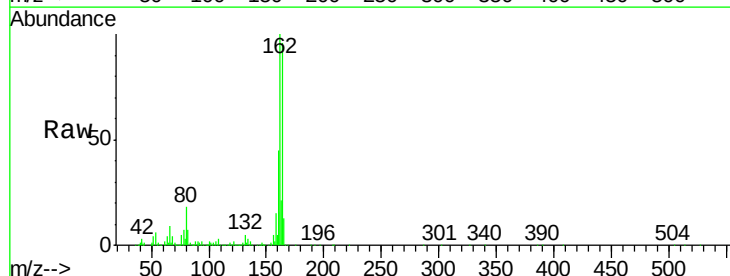
Instrument :  
 BNA\_G  
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 N8-B1(5-12)C

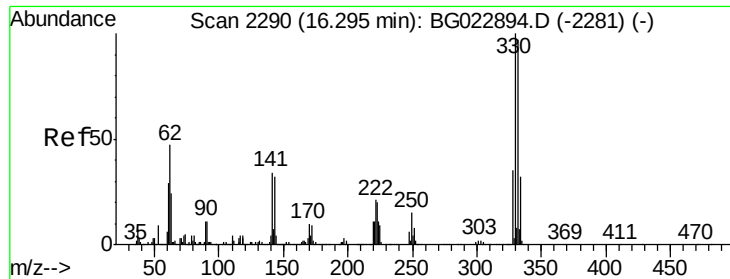
Tgt Ion: 82 Resp: 1078238  
 Ion Ratio Lower Upper  
 82 100  
 128 32.1 24.4 36.6  
 54 50.7 41.4 62.0



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.79 min Scan# 2035  
 Delta R.T. -0.00 min  
 Lab File: BG022988.D  
 Acq: 10 Jul 2016 6:49

Tgt Ion: 164 Resp: 354284  
 Ion Ratio Lower Upper  
 164 100  
 162 104.4 87.7 131.5  
 160 47.2 37.2 55.8

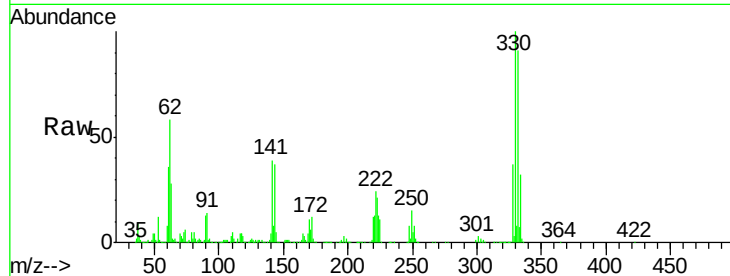




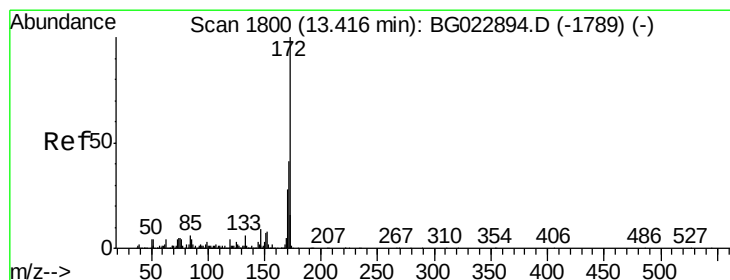
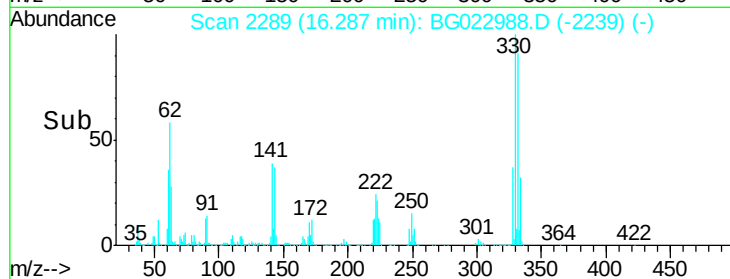
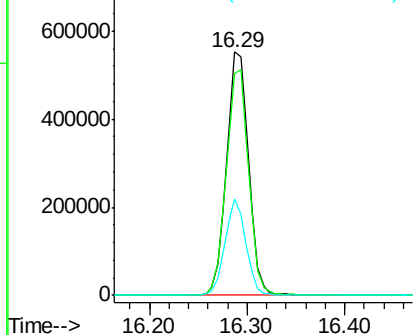
#41  
 2,4,6-Tribromophenol  
 Concen: 136.17 ng  
 RT: 16.29 min Scan# 2289  
 Delta R.T. -0.01 min  
 Lab File: BG022988.D  
 Acq: 10 Jul 2016 6:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 N8-B1(5-12)C

Tgt Ion:330 Resp: 867014  
 Ion Ratio Lower Upper  
 330 100  
 332 93.9 77.4 116.2  
 141 37.3 31.7 47.5

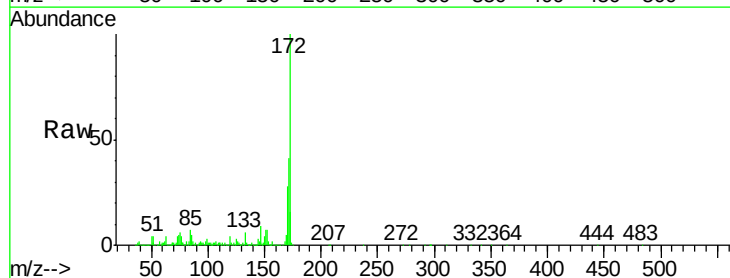


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

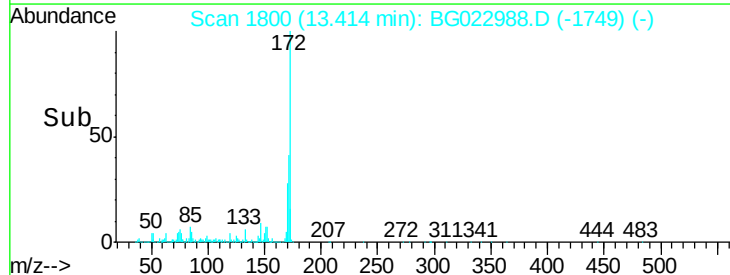
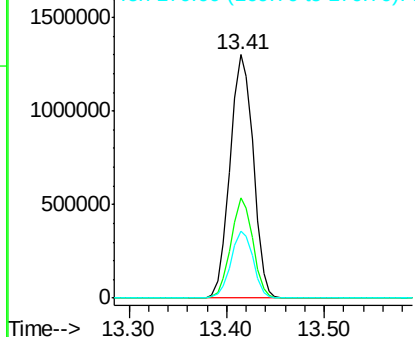


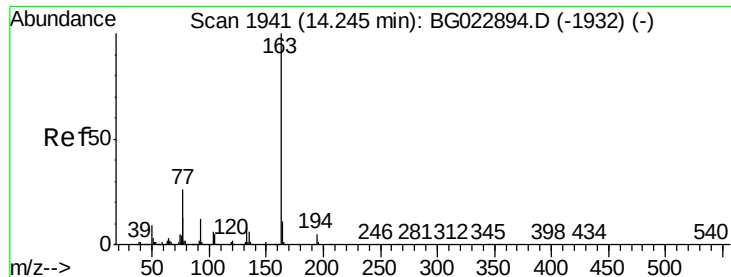
#44  
 2-Fluorobiphenyl  
 Concen: 95.45 ng  
 RT: 13.41 min Scan# 1800  
 Delta R.T. -0.00 min  
 Lab File: BG022988.D  
 Acq: 10 Jul 2016 6:49

Tgt Ion:172 Resp: 2146914  
 Ion Ratio Lower Upper  
 172 100  
 171 41.0 31.6 47.4  
 170 27.6 21.3 31.9



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





#49

Dimethylphthalate

Concen: 12.85 ng

RT: 14.24 min Scan# 1940

Delta R.T. -0.01 min

Lab File: BG022988.D

Acq: 10 Jul 2016 6:49

Instrument :

BNA\_G

ClientSampleId :

N8-B1(5-12)C

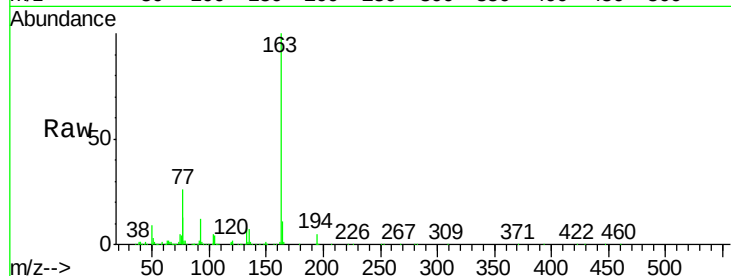
Tgt Ion:163 Resp: 372006

Ion Ratio Lower Upper

163 100

194 5.1 3.6 5.4

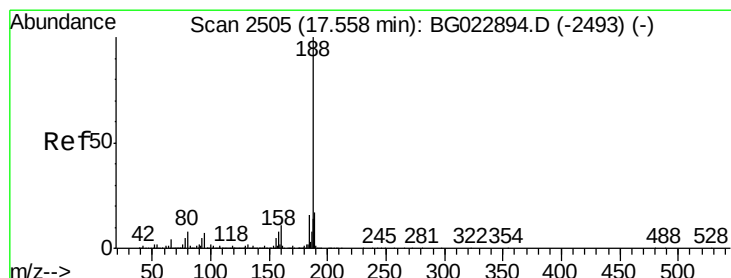
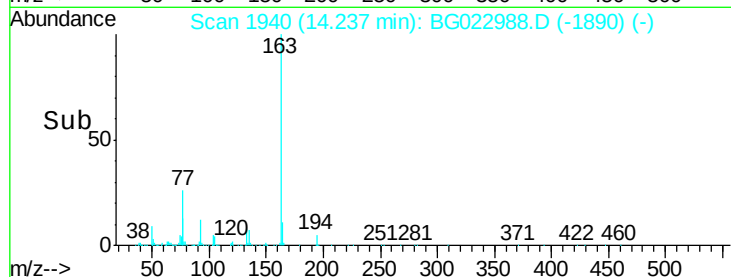
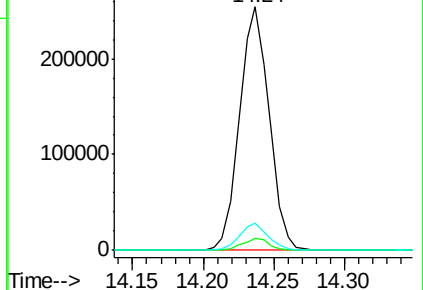
164 11.2 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.55 min Scan# 2504

Delta R.T. -0.01 min

Lab File: BG022988.D

Acq: 10 Jul 2016 6:49

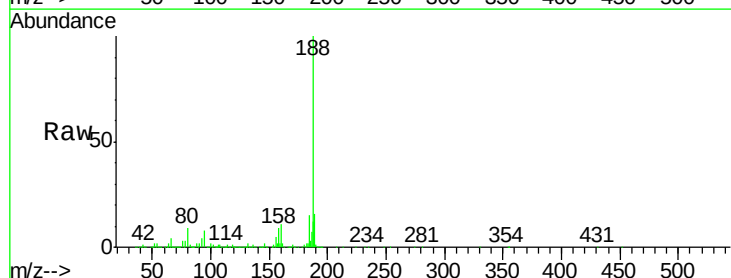
Tgt Ion:188 Resp: 839717

Ion Ratio Lower Upper

188 100

94 8.1 5.2 7.8#

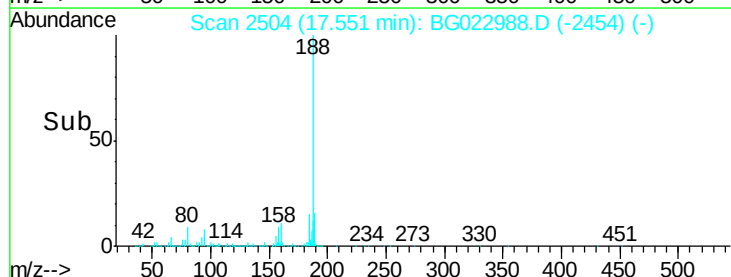
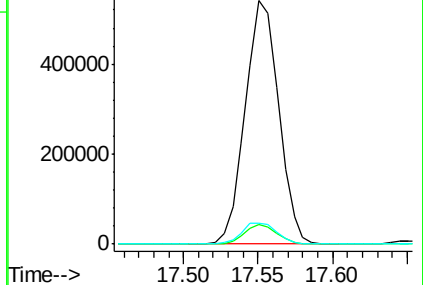
80 8.5 7.2 10.8

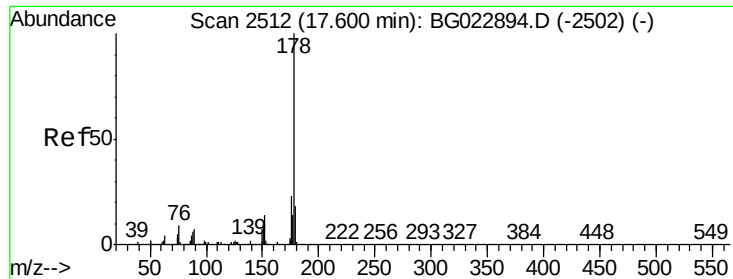


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 2.64 ng

RT: 17.59 min Scan# 2511

Delta R.T. -0.01 min

Lab File: BG022988.D

Acq: 10 Jul 2016 6:49

Instrument :

BNA\_G

ClientSampleId :

N8-B1(5-12)C

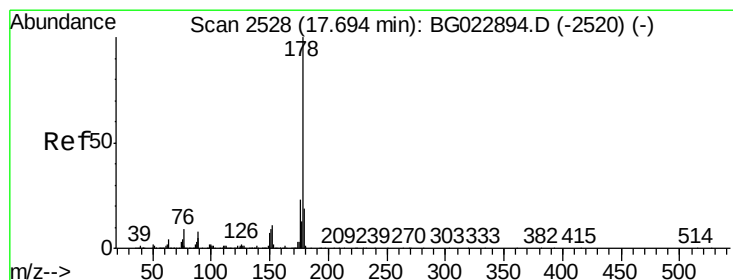
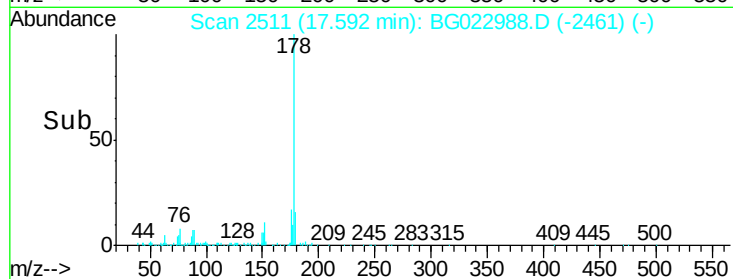
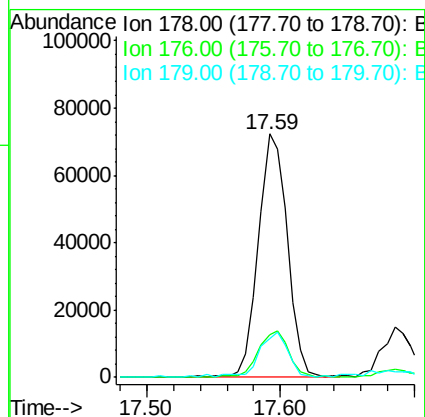
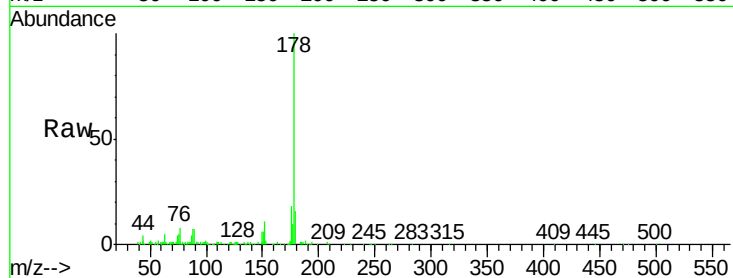
Tgt Ion:178 Resp: 108495

Ion Ratio Lower Upper

178 100

176 17.8 16.8 25.2

179 15.8 14.3 21.5



#71

Anthracene

Concen: 2.60 ng

RT: 17.59 min Scan# 2511

Delta R.T. -0.10 min

Lab File: BG022988.D

Acq: 10 Jul 2016 6:49

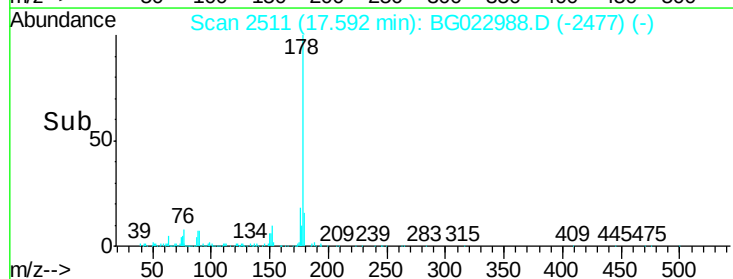
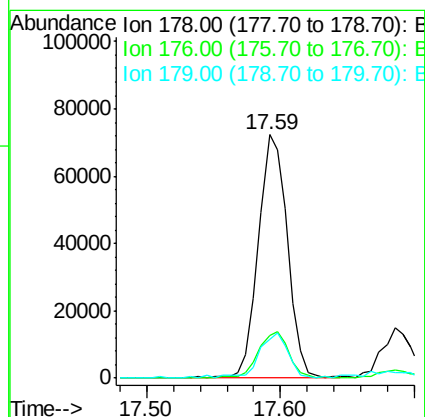
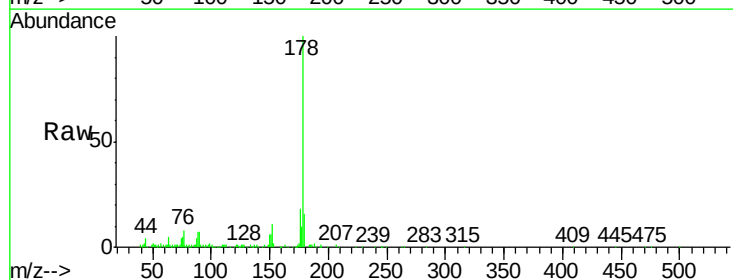
Tgt Ion:178 Resp: 108495

Ion Ratio Lower Upper

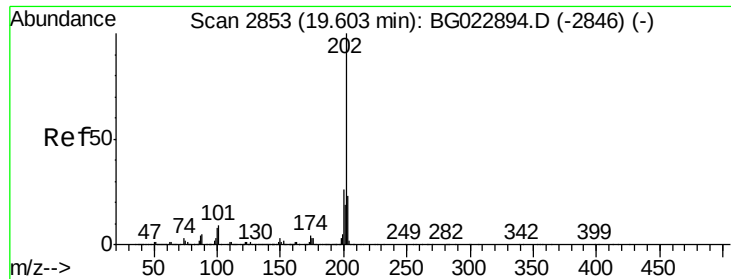
178 100

176 17.8 17.3 25.9

179 15.8 14.0 21.0



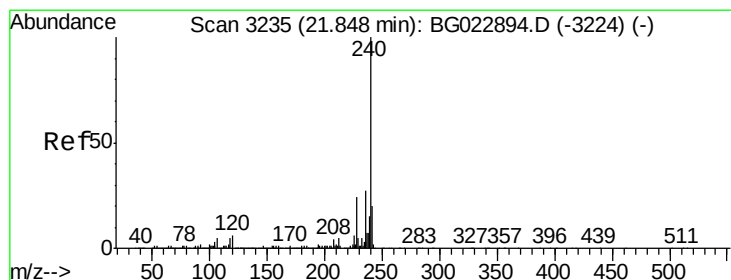
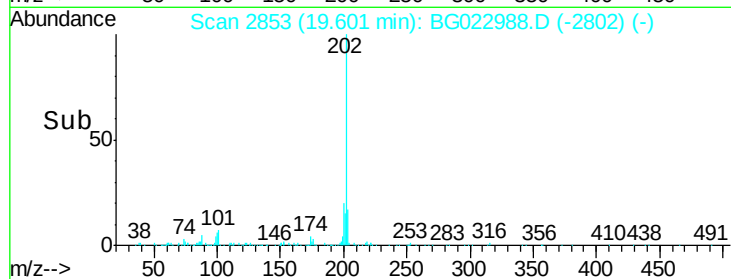
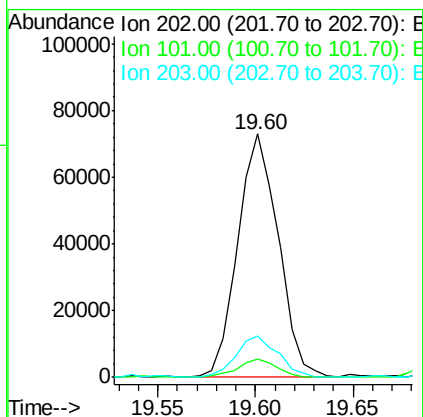
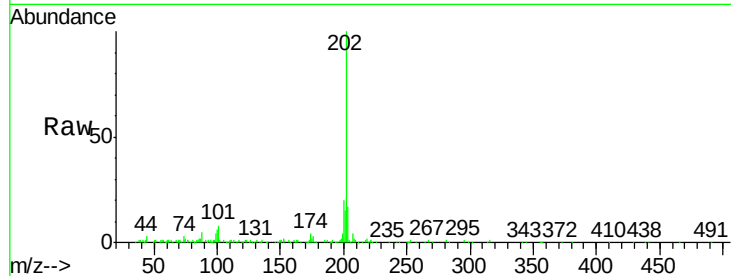




#74  
Fluoranthene  
Concen: 2.08 ng  
RT: 19.60 min Scan# 2853  
Delta R.T. -0.00 min  
Lab File: BG022988.D  
Acq: 10 Jul 2016 6:49

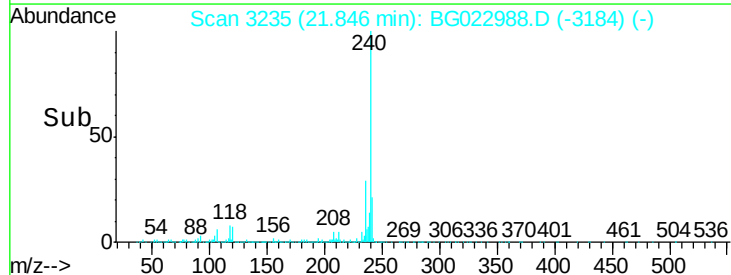
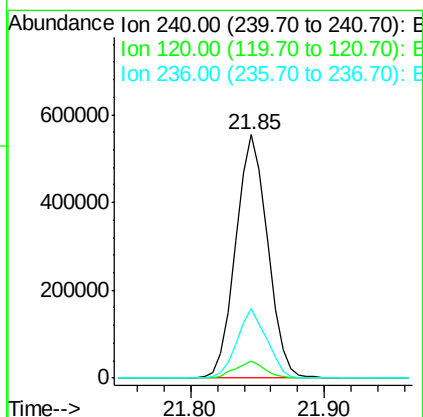
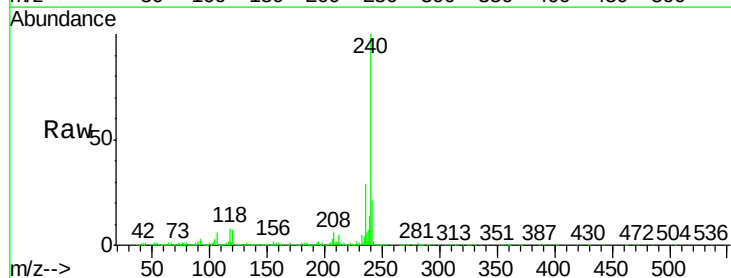
Instrument :  
BNA\_G  
ClientSampleId :  
N8-B1(5-12)C

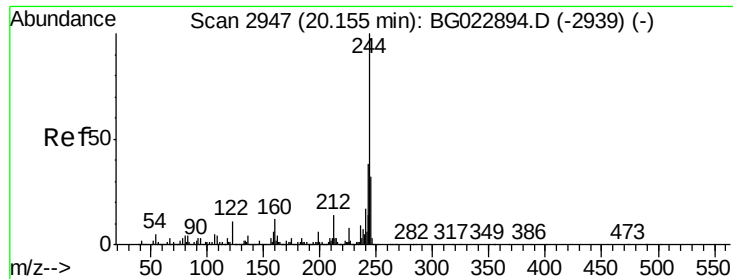
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.7   | 0.0   | 27.4  |
| 203     | 17.1  | 1.7   | 41.7  |



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.85 min Scan# 3235  
Delta R.T. -0.00 min  
Lab File: BG022988.D  
Acq: 10 Jul 2016 6:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 6.7   | 4.1   | 6.1#  |
| 236     | 28.6  | 21.1  | 31.7  |





#78

Terphenyl-d14

Concen: 103.54 ng

RT: 20.15 min Scan# 2947

Delta R.T. -0.00 min

Lab File: BG022988.D

Acq: 10 Jul 2016 6:49

Instrument :

BNA\_G

ClientSampleId :

N8-B1(5-12)C

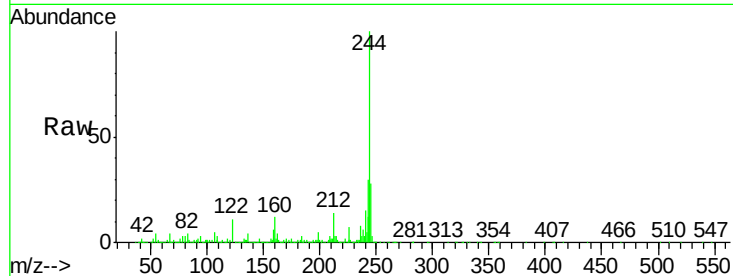
Tgt Ion:244 Resp: 2750894

Ion Ratio Lower Upper

244 100

212 13.6 10.8 16.2

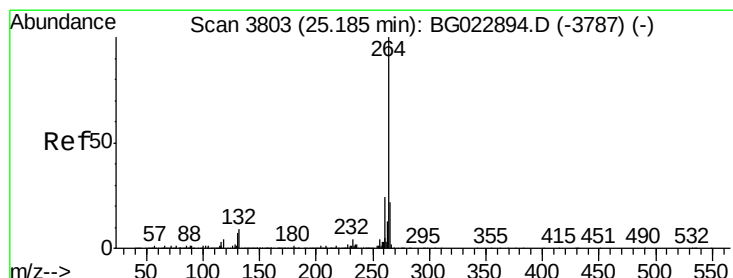
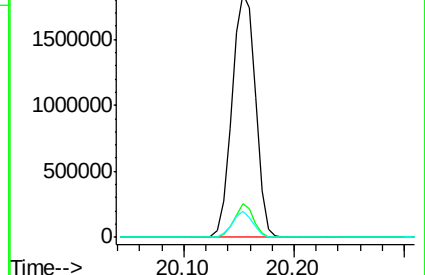
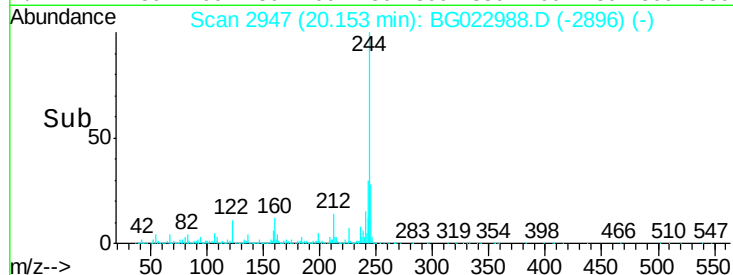
122 10.5 8.0 12.0



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: 25.21 min Scan# 3807

Delta R.T. 0.02 min

Lab File: BG022988.D

Acq: 10 Jul 2016 6:49

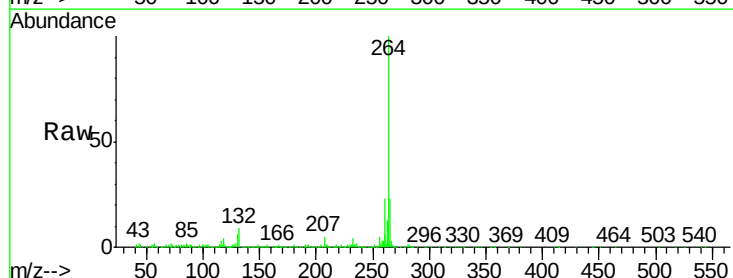
Tgt Ion:264 Resp: 922832

Ion Ratio Lower Upper

264 100

260 23.3 18.4 27.6

265 23.0 18.9 28.3



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

