

Data Path : Z:\HPCHEM1\BNA G\DATA\BG120815\  
 Data File : BG020021.D  
 Acq On : 8 Dec 2015 17:01  
 Operator : UM/SJ  
 Sample : G4676-19  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-15

Quant Time: Dec 09 04:48:01 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 Response via : Initial Calibration

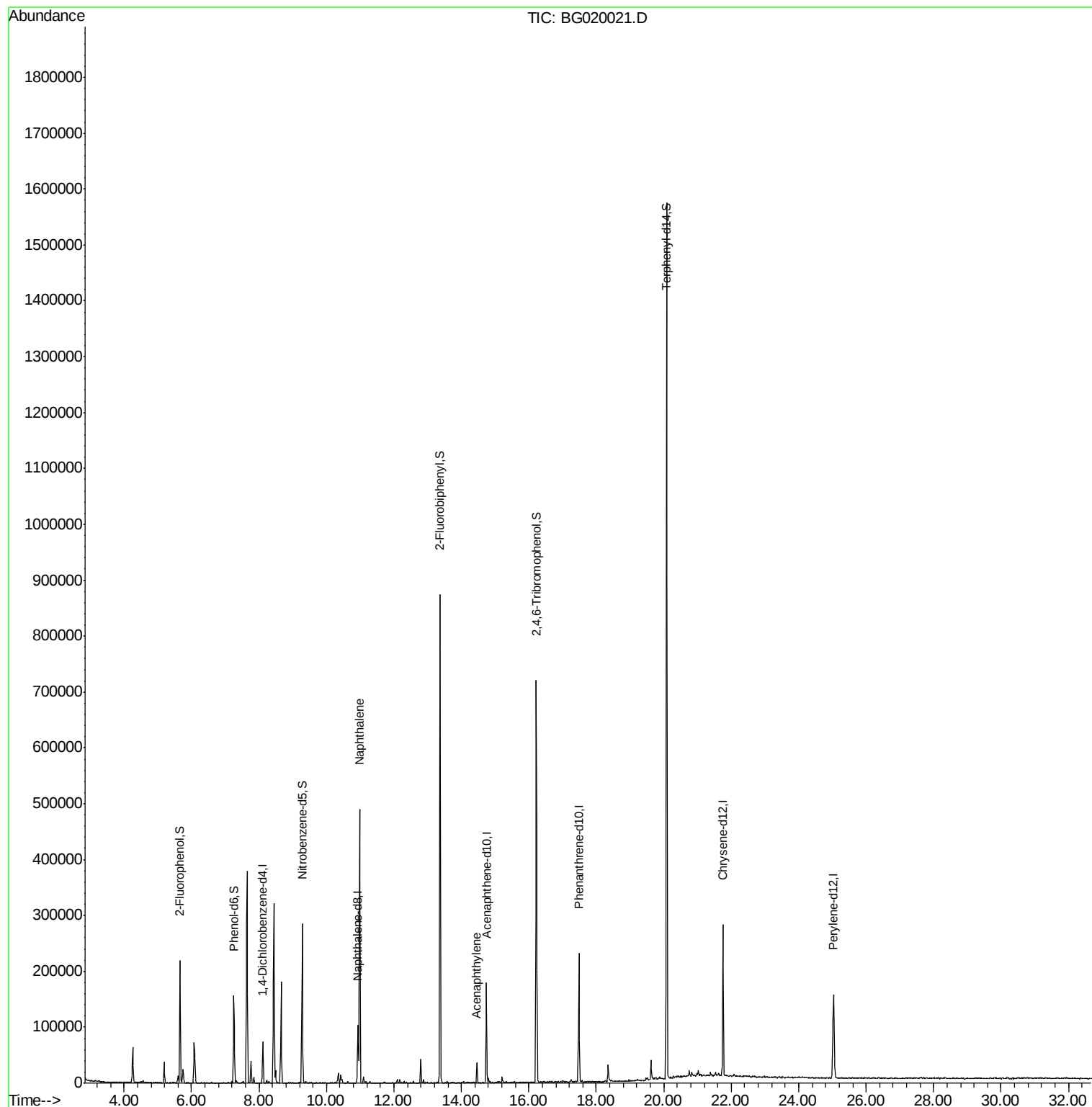
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.11  | 152  | 19720    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.93 | 136  | 86715    | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 14.74 | 164  | 59131    | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 17.48 | 188  | 145060   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 21.76 | 240  | 173969   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12            | 25.03 | 264  | 162985   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.66  | 112  | 89133    | 81.69  | ng    | -0.01    |
| 7) Phenol-d6                | 7.26  | 99   | 85317    | 51.79  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 9.28  | 82   | 179425   | 105.60 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.23 | 330  | 137321   | 151.78 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 13.37 | 172  | 446253   | 103.05 | ng    | -0.02    |
| 78) Terphenyl-d14           | 20.08 | 244  | 723160   | 101.39 | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 10.98 | 128  | 403250   | 86.81  | ng    | 98       |
| 48) Acenaphthylene          | 14.46 | 152  | 26947    | 4.23   | ng    | 94       |

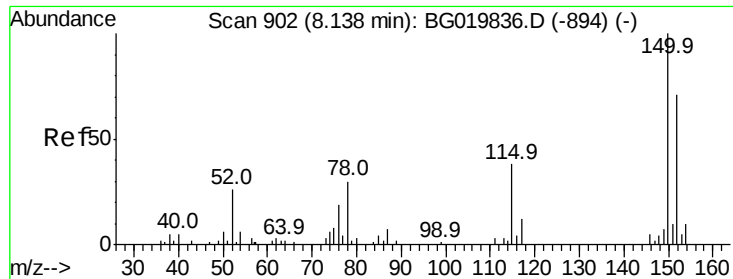
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG120815\  
Data File : BG020021.D  
Acq On : 8 Dec 2015 17:01  
Operator : UM/SJ  
Sample : G4676-19  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MW-15

Quant Time: Dec 09 04:48:01 2015  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 02 18:50:01 2015  
Response via : Initial Calibration



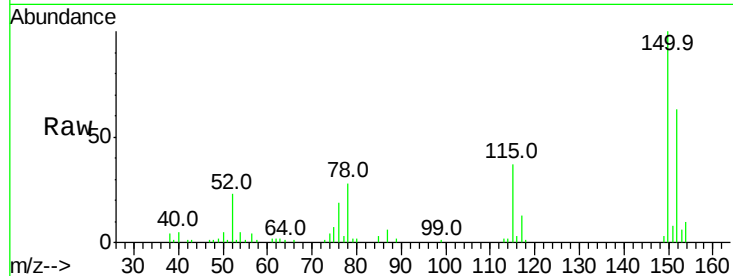


#1

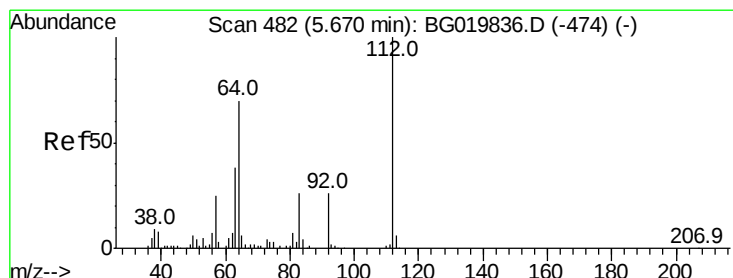
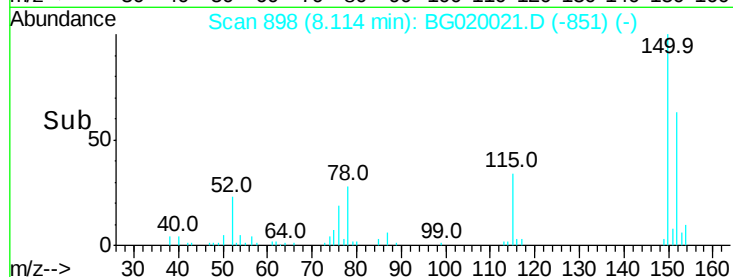
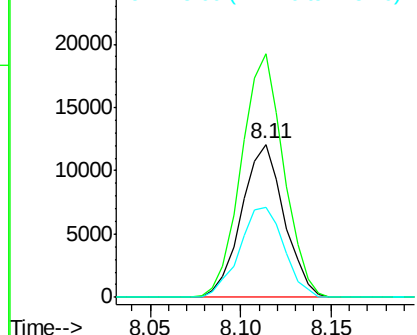
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.11 min Scan# 898  
Delta R.T. -0.02 min  
Lab File: BG020021.D  
Acq: 8 Dec 2015 17:01

Instrument :  
BNA\_G  
ClientSampled :  
MW-15

Tot Ion:152 Resp: 19720  
Ion Ratio Lower Upper  
152 100  
150 159.4 115.0 172.4  
115 58.6 43.9 65.9



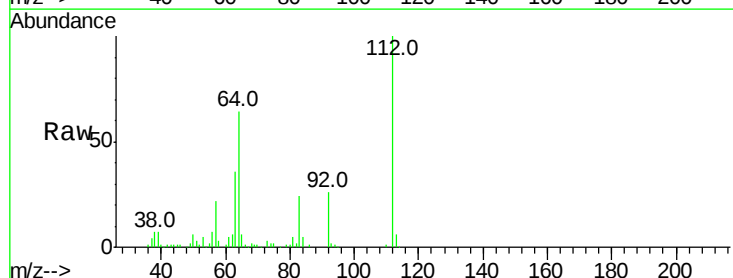
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



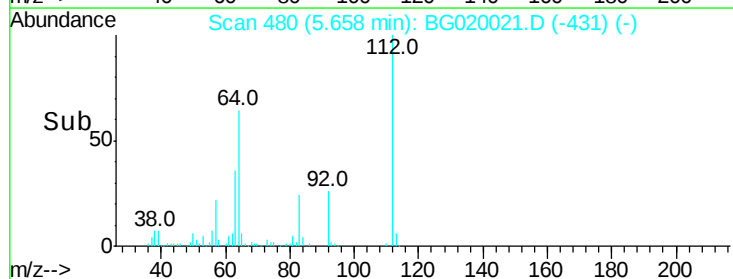
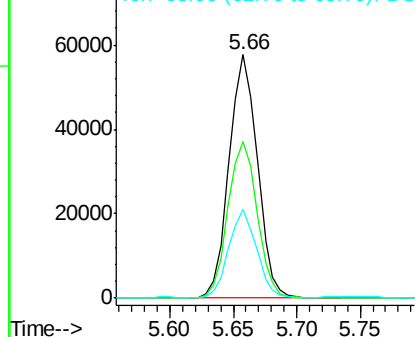
#5

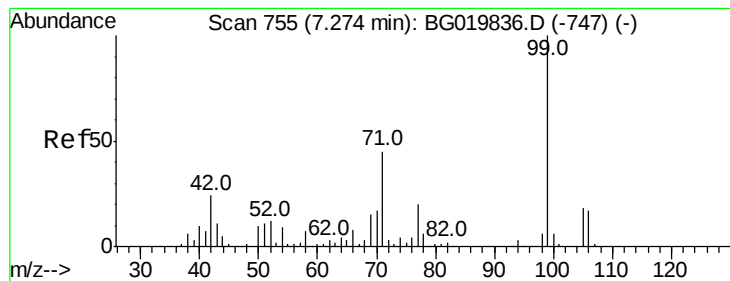
2-Fluorophenol  
Concen: 81.69 ng  
RT: 5.66 min Scan# 480  
Delta R.T. -0.01 min  
Lab File: BG020021.D  
Acq: 8 Dec 2015 17:01

Tgt Ion:112 Resp: 89133  
Ion Ratio Lower Upper  
112 100  
64 64.2 43.7 65.5  
63 36.5 24.0 36.0#



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: 51.79 ng

RT: 7.26 min Scan# 752

Delta R.T. -0.02 min

Lab File: BG020021.D

Acq: 8 Dec 2015 17:01

Instrument :

BNA\_G

ClientSampleId :

MW-15

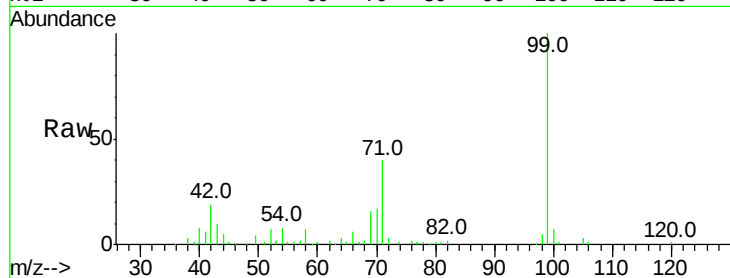
Tot Ion: 99 Resp: 85317

Ion Ratio Lower Upper

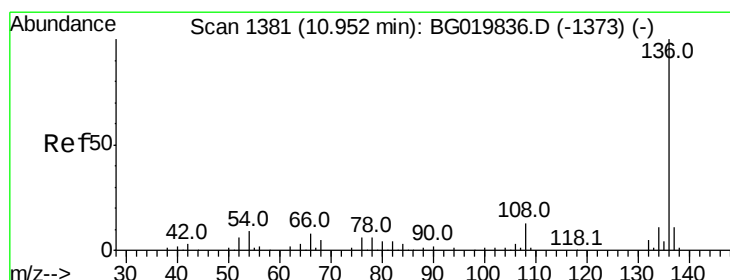
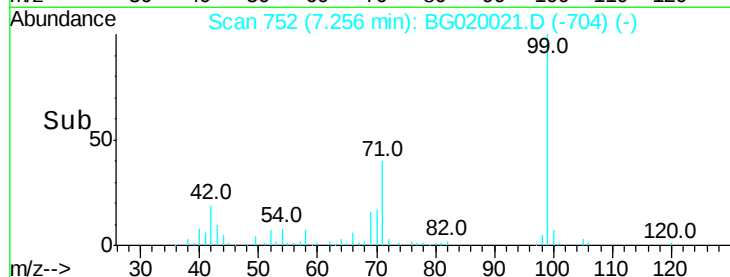
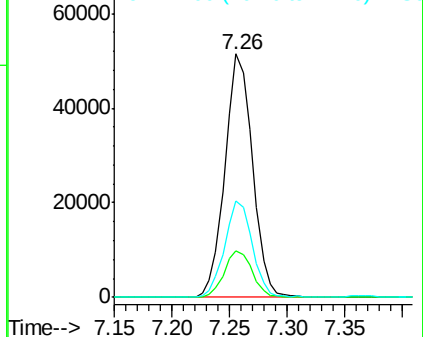
99 100

42 19.3 11.5 17.3#

71 39.6 22.6 34.0#



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: 10.93 min Scan# 1377

Delta R.T. -0.02 min

Lab File: BG020021.D

Acq: 8 Dec 2015 17:01

Tgt Ion: 136 Resp: 86715

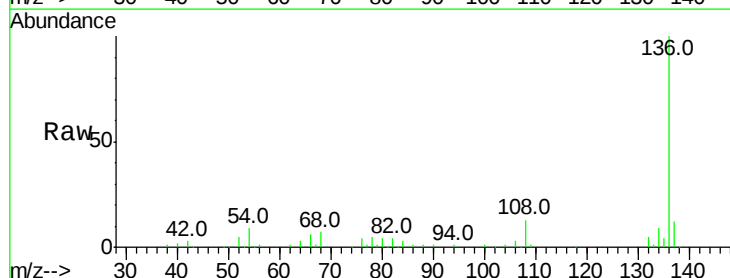
Ion Ratio Lower Upper

136 100

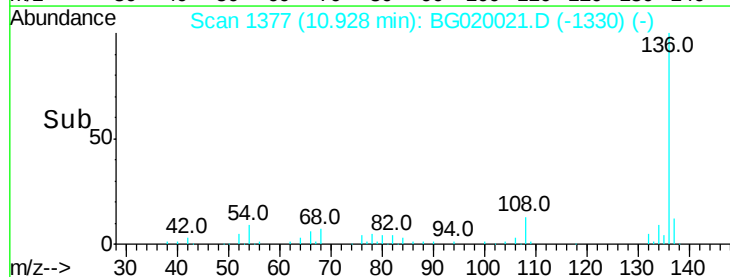
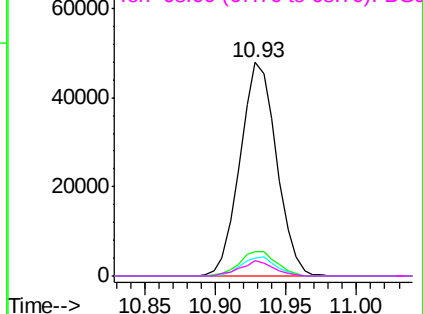
137 11.6 8.6 12.8

54 8.6 5.4 8.2#

68 7.0 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

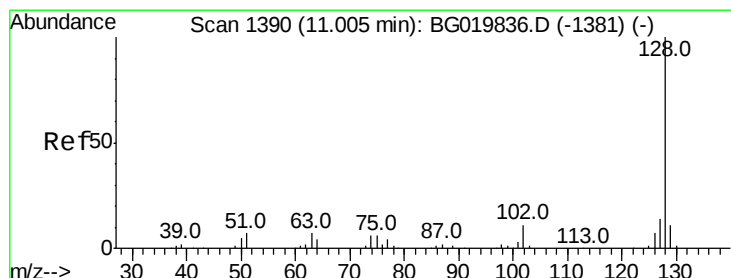
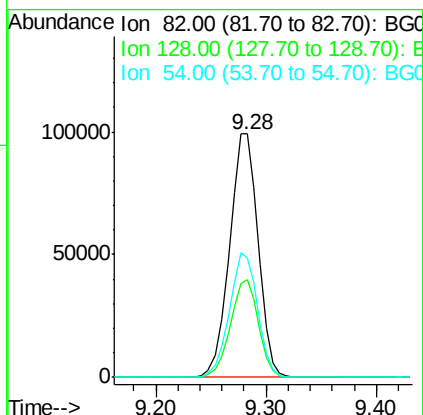
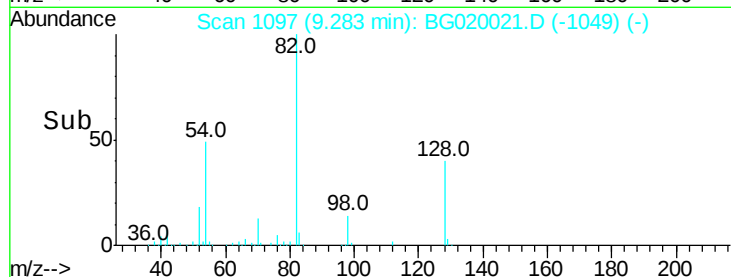
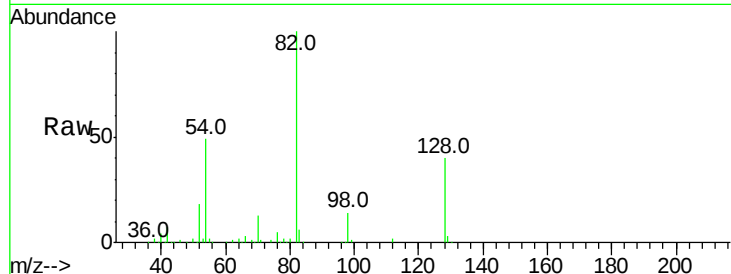




#23  
Nitrobenzene-d5  
Concen: 105.60 ng  
RT: 9.28 min Scan# 1097  
Delta R.T. -0.02 min  
Lab File: BG020021.D  
Acq: 8 Dec 2015 17:01

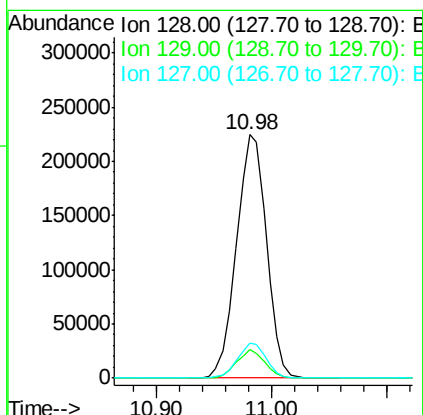
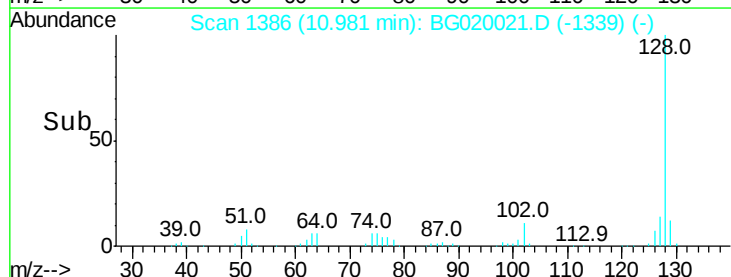
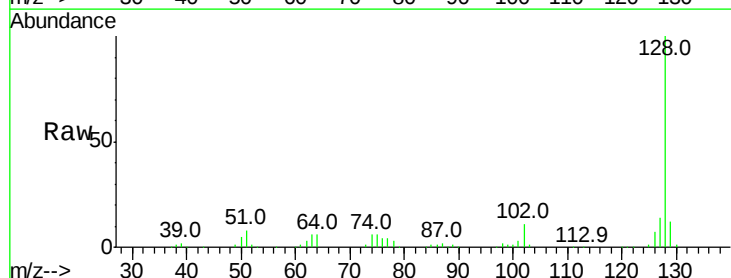
Instrument :  
BNA\_G  
ClientSampled :  
MW-15

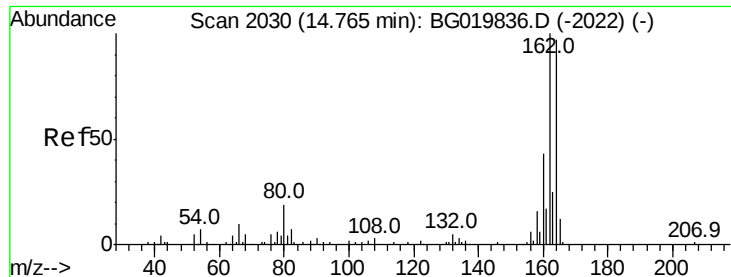
Tot Ion: 82 Resp: 179425  
Ion Ratio Lower Upper  
82 100  
128 40.1 36.7 55.1  
54 49.1 33.8 50.8



#31  
Naphthalene  
Concen: 86.81 ng  
RT: 10.98 min Scan# 1386  
Delta R.T. -0.02 min  
Lab File: BG020021.D  
Acq: 8 Dec 2015 17:01

Tgt Ion: 128 Resp: 403250  
Ion Ratio Lower Upper  
128 100  
129 11.5 8.5 12.7  
127 14.1 10.6 16.0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.74 min Scan# 2026

Delta R.T. -0.02 min

Lab File: BG020021.D

Acq: 8 Dec 2015 17:01

Instrument :

BNA\_G

ClientSampleId :

MW-15

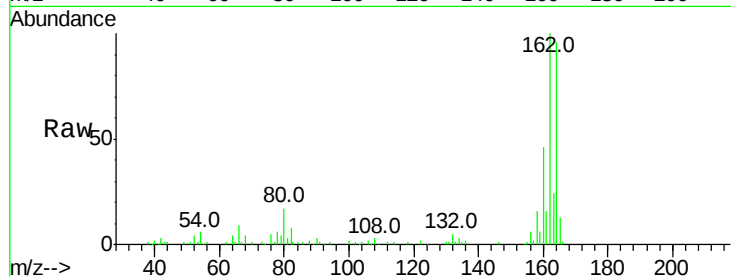
Tot Ion:164 Resp: 59131

Ion Ratio Lower Upper

164 100

162 104.0 78.8 118.2

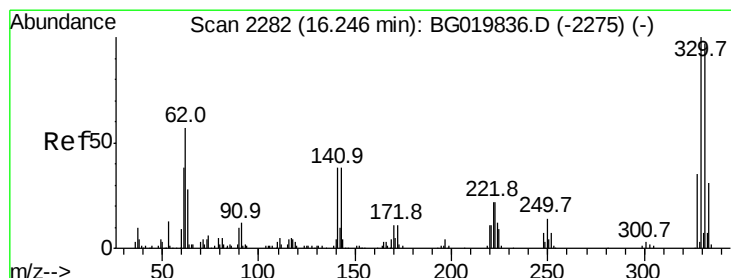
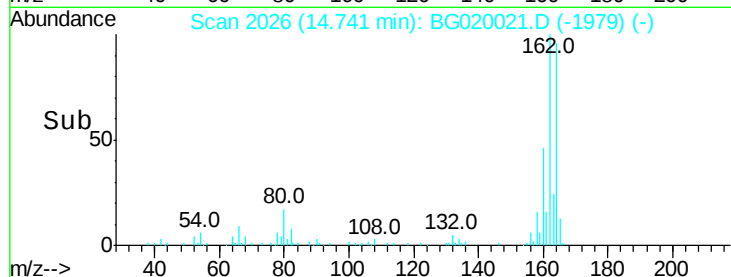
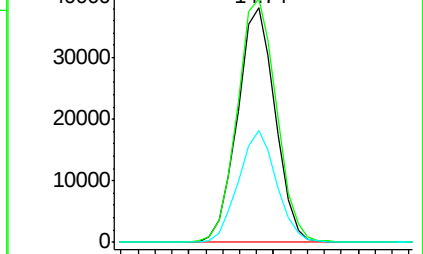
160 47.6 36.4 54.6



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: 151.78 ng

RT: 16.23 min Scan# 2279

Delta R.T. -0.02 min

Lab File: BG020021.D

Acq: 8 Dec 2015 17:01

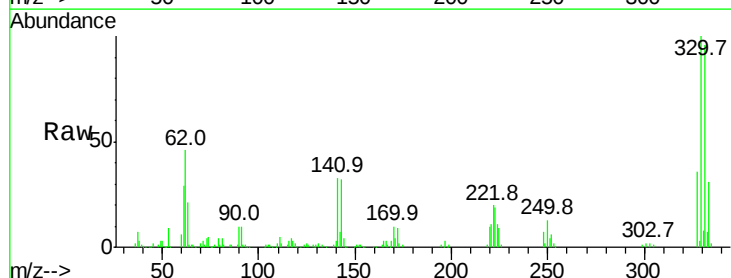
Tgt Ion:330 Resp: 137321

Ion Ratio Lower Upper

330 100

332 96.6 78.1 117.1

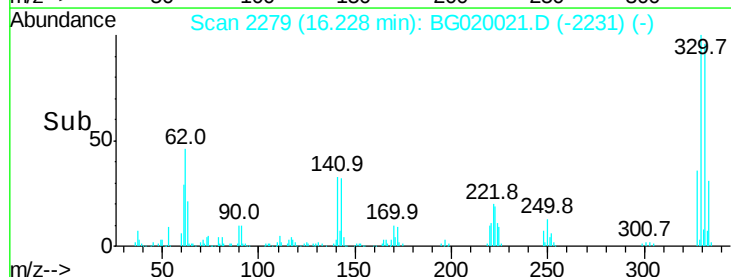
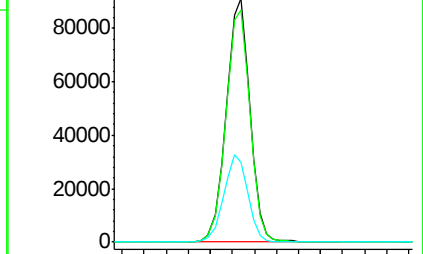
141 36.2 28.2 42.2

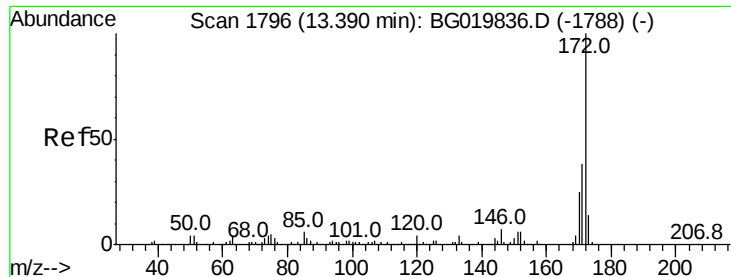


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

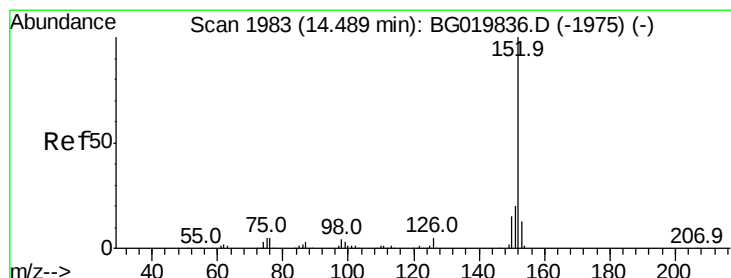
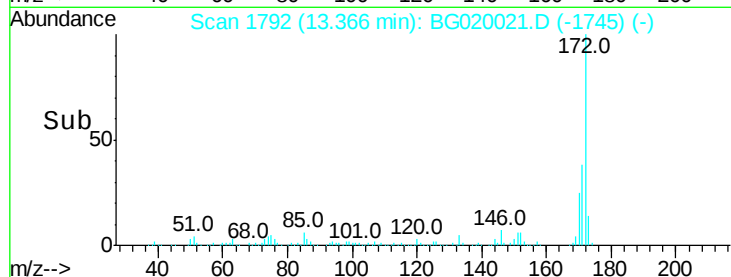
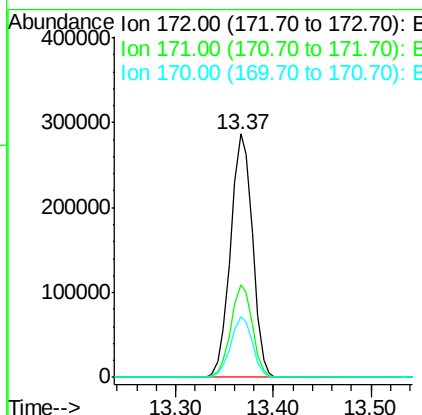
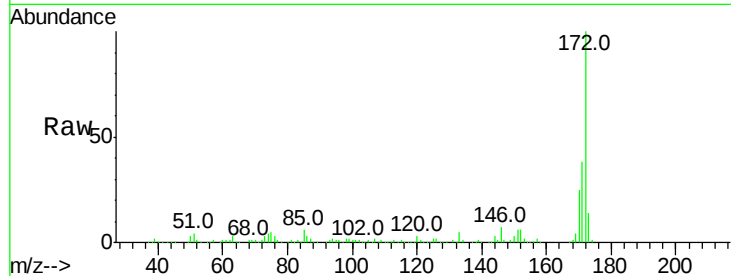




#44  
2-Fluorobiphenyl  
Concen: 103.05 ng  
RT: 13.37 min Scan# 1792  
Delta R.T. -0.02 min  
Lab File: BG020021.D  
Acq: 8 Dec 2015 17:01

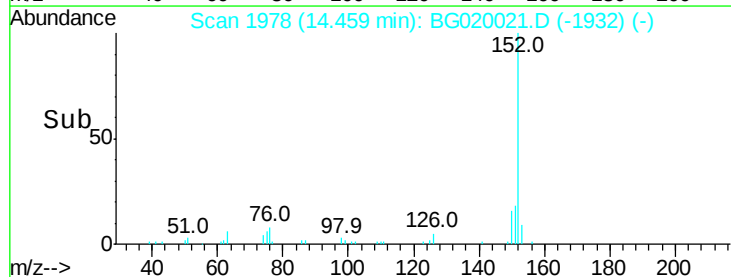
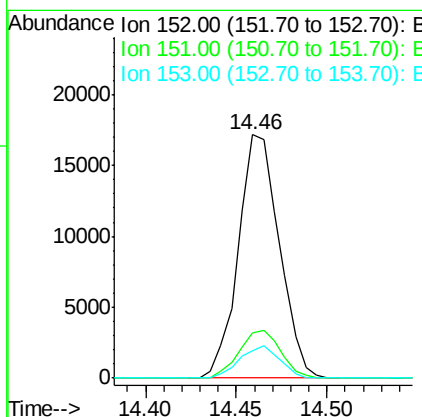
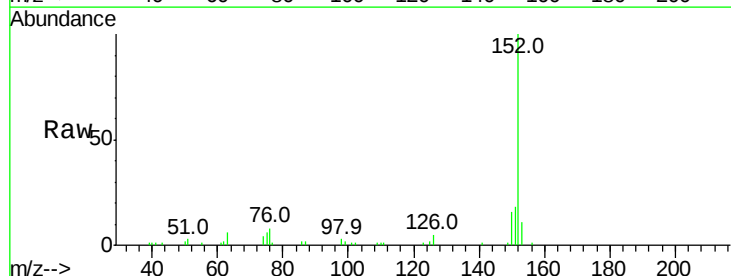
Instrument :  
BNA\_G  
ClientSampleId :  
MW-15

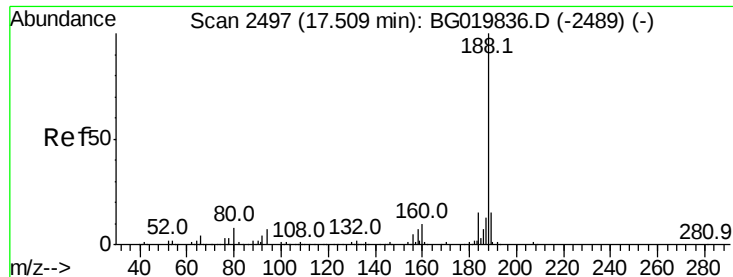
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 29.0  | 43.6  |
| 170     | 24.6  | 19.9  | 29.9  |



#48  
Acenaphthylene  
Concen: 4.23 ng  
RT: 14.46 min Scan# 1978  
Delta R.T. -0.03 min  
Lab File: BG020021.D  
Acq: 8 Dec 2015 17:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.3  | 17.0  | 25.4  |
| 153     | 11.0  | 10.4  | 15.6  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.48 min Scan# 2493

Delta R.T. -0.02 min

Lab File: BG020021.D

Acq: 8 Dec 2015 17:01

Instrument :

BNA\_G

ClientSampleId :

MW-15

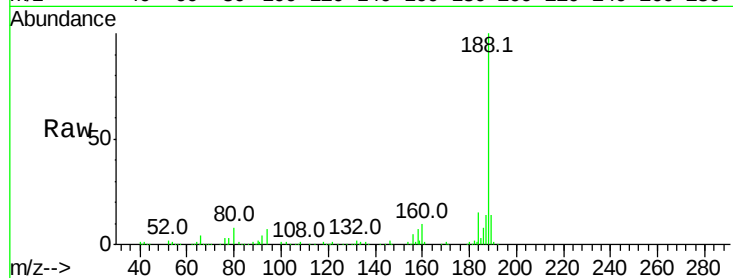
Tot Ion:188 Resp: 145060

Ion Ratio Lower Upper

188 100

94 7.1 7.7 11.5#

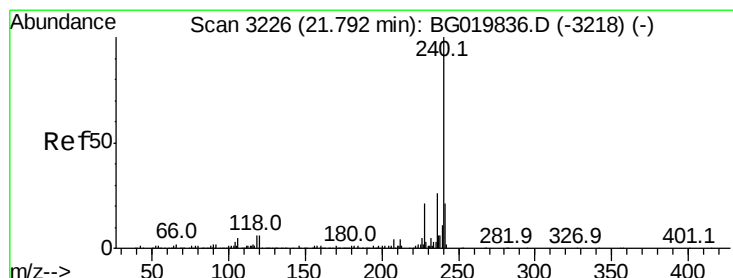
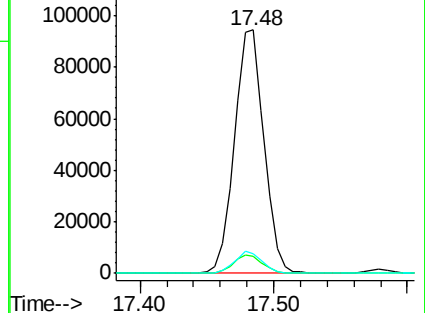
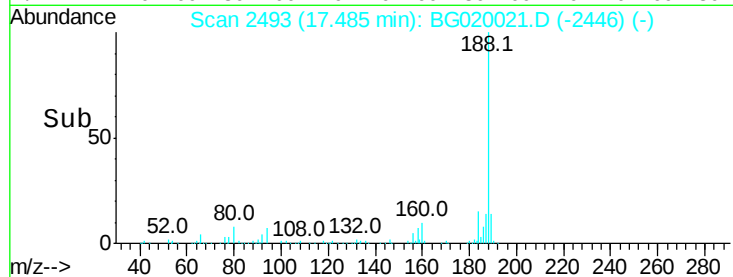
80 8.3 7.8 11.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.76 min Scan# 3220

Delta R.T. -0.04 min

Lab File: BG020021.D

Acq: 8 Dec 2015 17:01

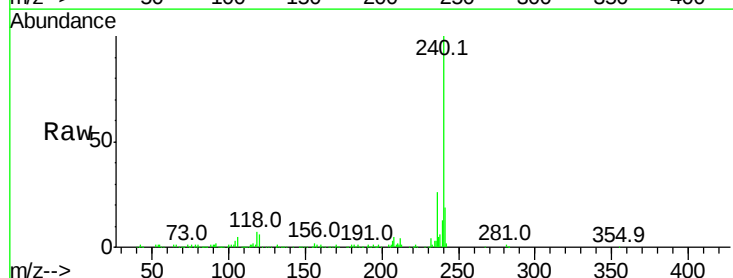
Tgt Ion:240 Resp: 173969

Ion Ratio Lower Upper

240 100

120 6.2 7.4 11.0#

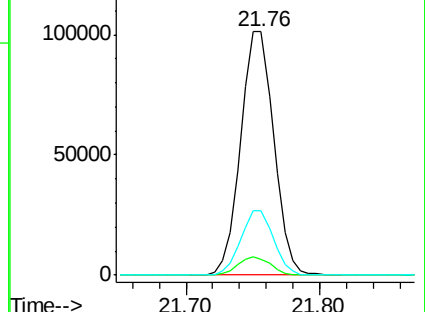
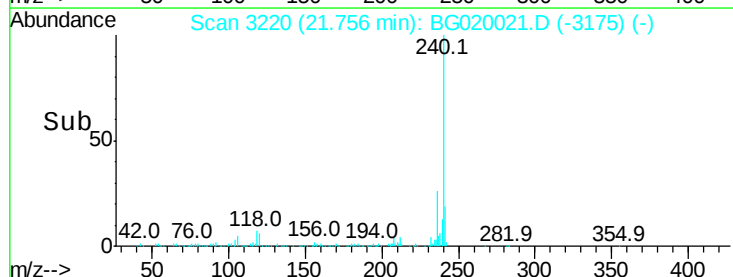
236 26.3 20.7 31.1

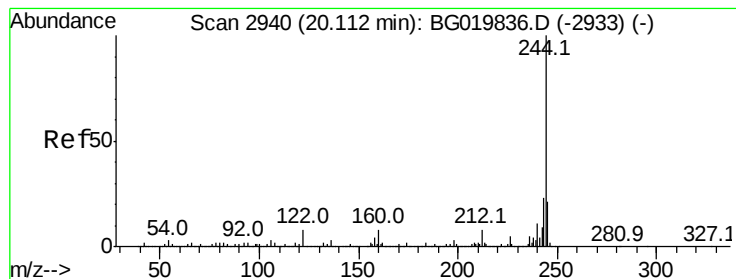


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 101.39 ng

RT: 20.08 min Scan# 2935

Delta R.T. -0.03 min

Lab File: BG020021.D

Acq: 8 Dec 2015 17:01

Instrument :

BNA\_G

ClientSampleId :

MW-15

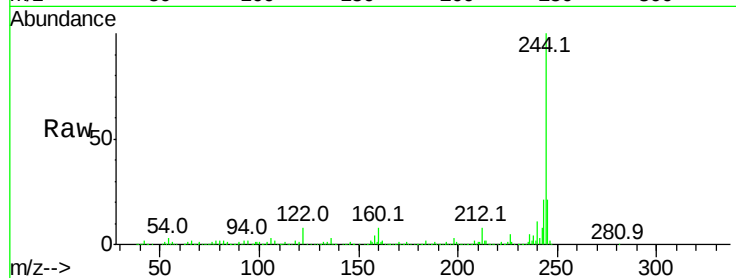
Tot Ion:244 Resp: 723160

Ion Ratio Lower Upper

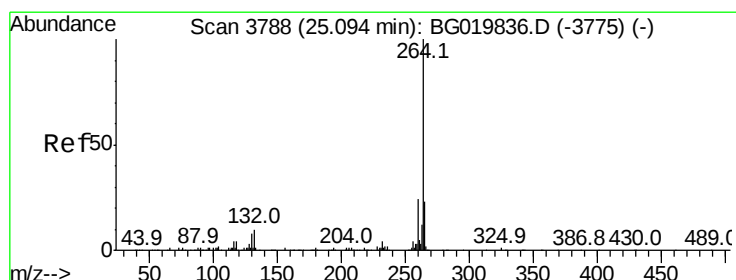
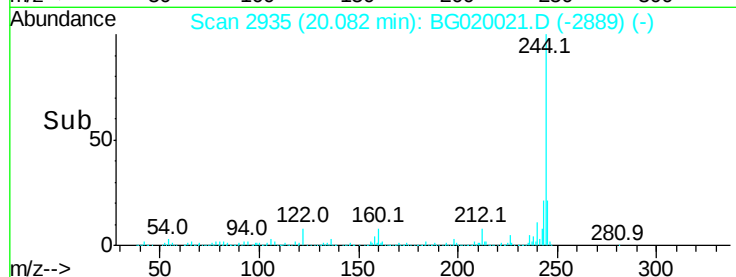
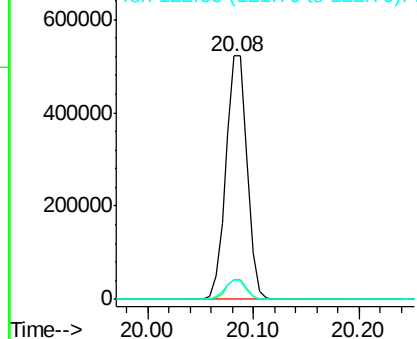
244 100

212 7.9 6.9 10.3

122 8.3 10.2 15.2#



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: 25.03 min Scan# 3778

Delta R.T. -0.06 min

Lab File: BG020021.D

Acq: 8 Dec 2015 17:01

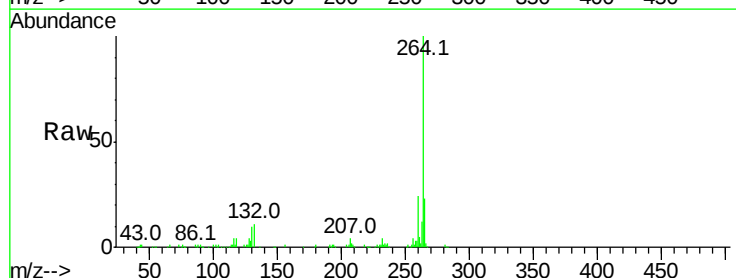
Tgt Ion:264 Resp: 162985

Ion Ratio Lower Upper

264 100

260 23.8 18.5 27.7

265 23.1 17.2 25.8



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

