

Data Path : Z:\HPCHEM1\BNA G\DATA\BG092017\  
 Data File : BG028844.D  
 Acq On : 21 Sep 2017 5:50  
 Operator : SJ/JU  
 Sample : I5293-03  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 21 08:35:19 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 16:57:11 2017  
 Response via : Initial Calibration

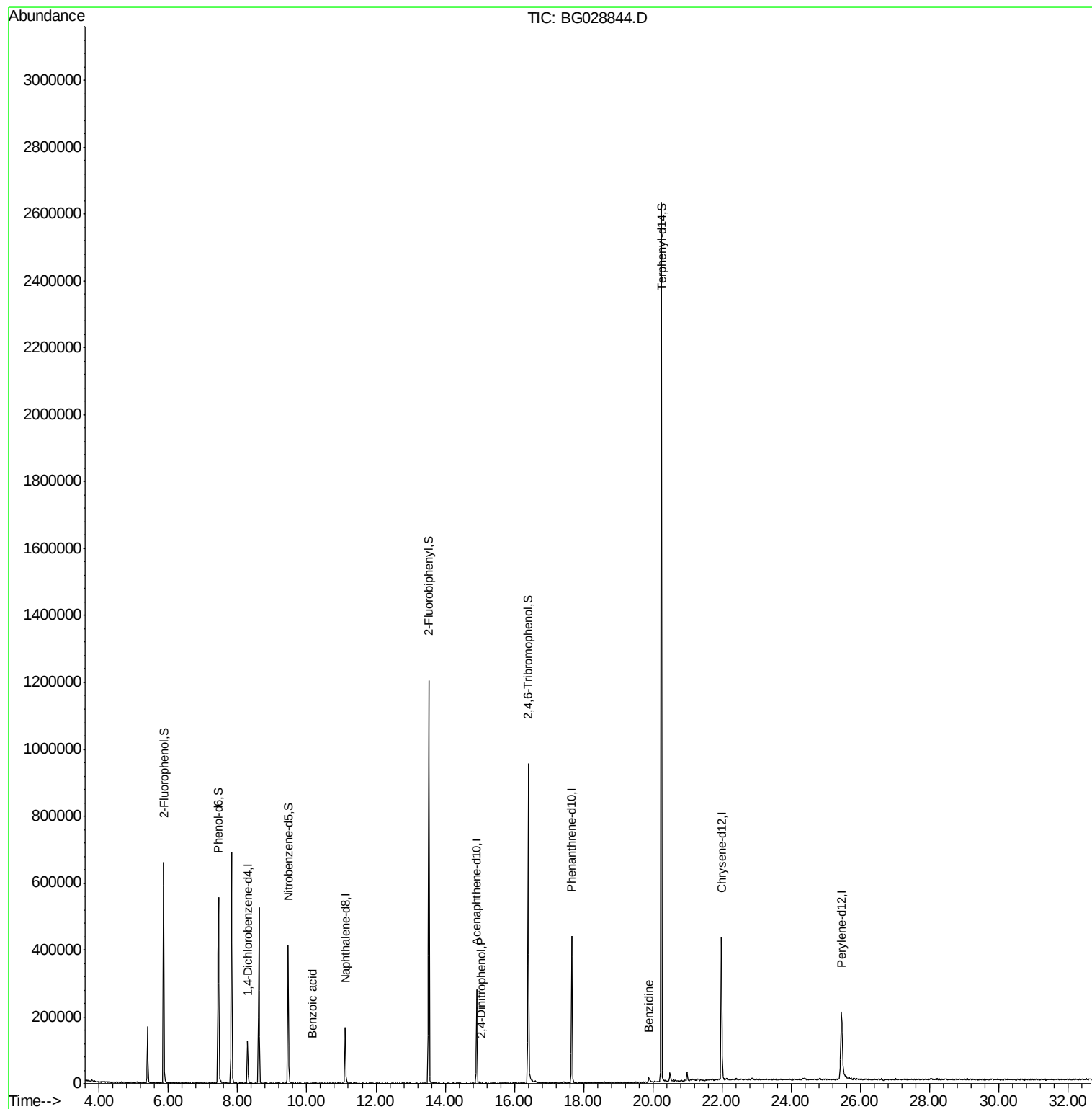
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.29  | 152  | 35989    | 20.00  | ng    | -0.04    |
| 21) Naphthalene-d8          | 11.11 | 136  | 147881   | 20.00  | ng    | -0.04    |
| 38) Acenaphthene-d10        | 14.91 | 164  | 104438   | 20.00  | ng    | -0.04    |
| 63) Phenanthrene-d10        | 17.66 | 188  | 280324   | 20.00  | ng    | -0.04    |
| 75) Chrysene-d12            | 21.98 | 240  | 313231   | 20.00  | ng    | -0.05    |
| 86) Perylene-d12            | 25.45 | 264  | 304007   | 20.00  | ng    | -0.08    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.86  | 112  | 280674   | 128.69 | ng    | -0.04    |
| 7) Phenol-d6                | 7.45  | 99   | 336736   | 102.54 | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 9.46  | 82   | 267944   | 86.68  | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol    | 16.40 | 330  | 221926   | 128.48 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl        | 13.53 | 172  | 688313   | 87.88  | ng    | -0.04    |
| 78) Terphenyl-d14           | 20.25 | 244  | 1305076  | 88.85  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       |          |
| 32) Benzoic acid            | 10.17 | 122  | 58       | 6.113  | ng    | # 1      |
| 53) 2,4-Dinitrophenol       | 15.03 | 184  | 59       | 8.053  | ng    | # 15     |
| 76) Benzidine               | 19.89 | 184  | 16552    | 2.038  | ng    | 97       |

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

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Quant Time: Sep 21 08:35:19 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 12 16:57:11 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.29 min Scan# 800

Delta R.T. -0.04 min

Lab File: BG028844.D

Acq: 21 Sep 2017 5:50

Instrument :

BNA\_G

ClientSampleId :

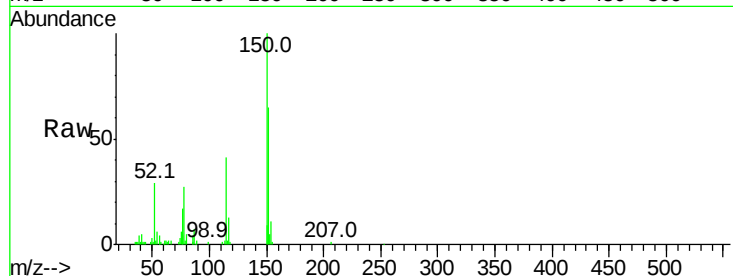
Tot Ion:152 Resp: 35989

Ion Ratio Lower Upper

152 100

150 152.8 114.0 171.0

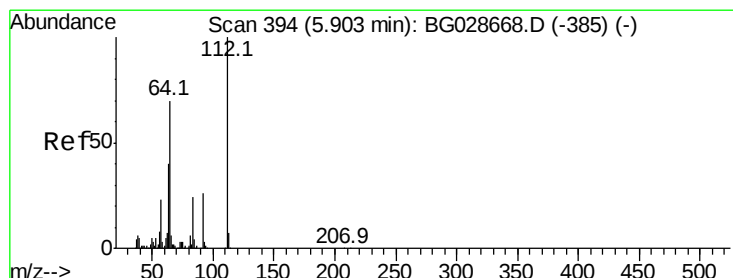
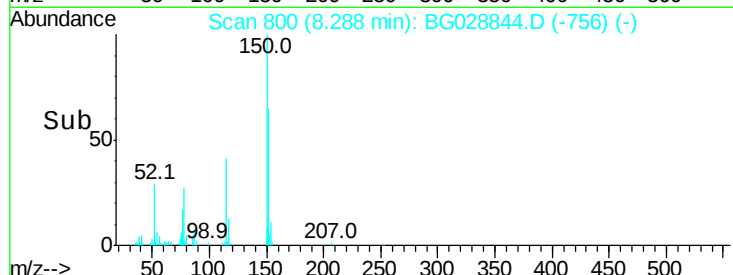
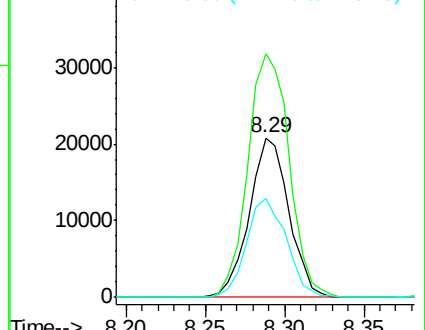
115 62.0 48.1 72.1



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: 128.685 ng

RT: 5.86 min Scan# 387

Delta R.T. -0.04 min

Lab File: BG028844.D

Acq: 21 Sep 2017 5:50

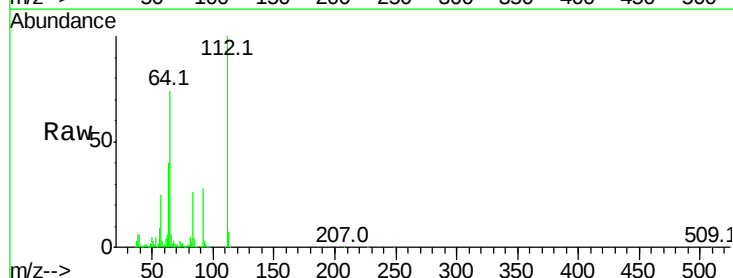
Tgt Ion:112 Resp: 280674

Ion Ratio Lower Upper

112 100

64 73.6 61.8 92.6

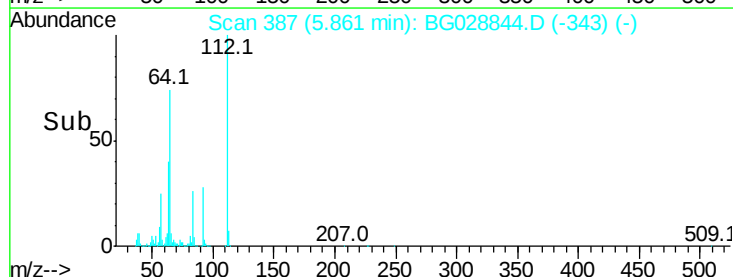
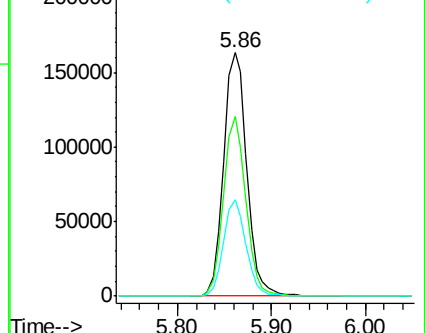
63 39.8 37.2 55.8

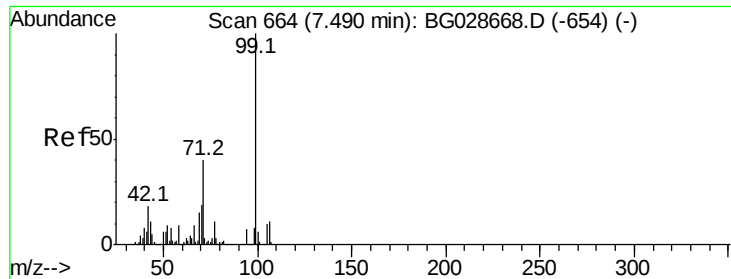


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 102.542 ng

RT: 7.45 min Scan# 657

Delta R.T. -0.04 min

Lab File: BG028844.D

Acq: 21 Sep 2017 5:50

Instrument :

BNA\_G

ClientSampled :

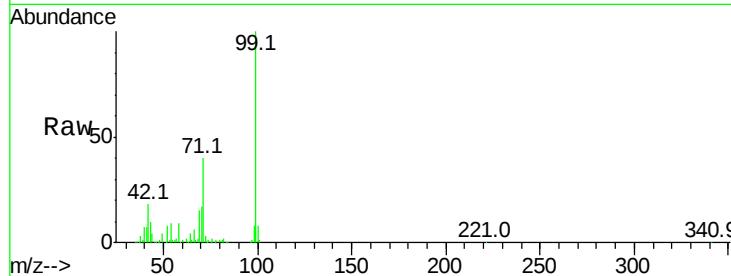
Tot Ion: 99 Resp: 336736

Ion Ratio Lower Upper

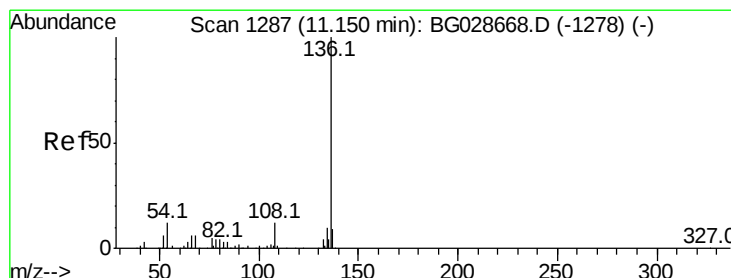
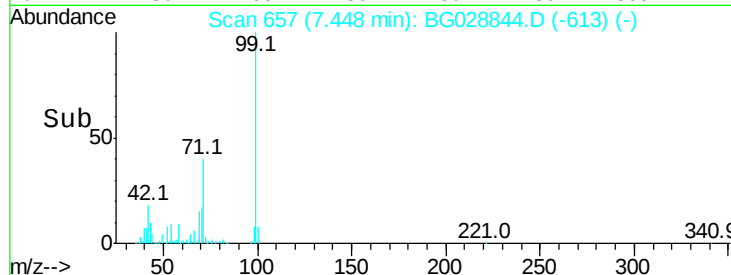
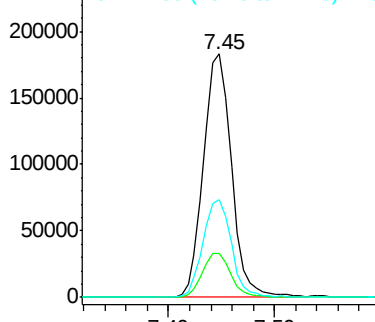
99 100

42 18.3 20.5 30.7#

71 40.0 37.6 56.4



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: 20.000 ng

RT: 11.11 min Scan# 1280

Delta R.T. -0.04 min

Lab File: BG028844.D

Acq: 21 Sep 2017 5:50

Tgt Ion: 136 Resp: 147881

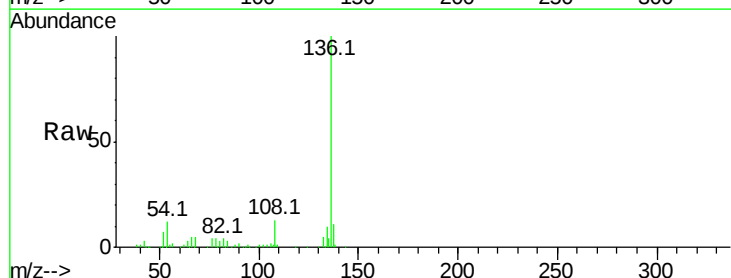
Ion Ratio Lower Upper

136 100

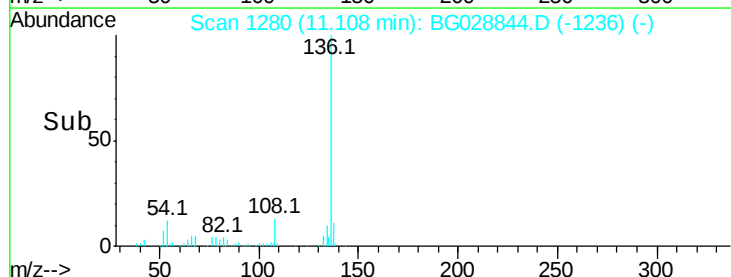
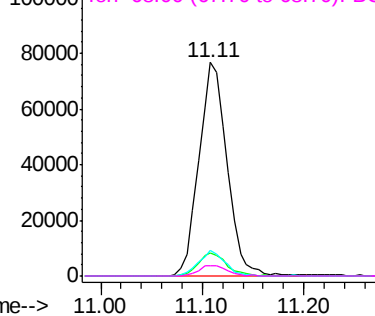
137 11.0 8.9 13.3

54 11.8 9.3 13.9

68 4.9 5.1 7.7#



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

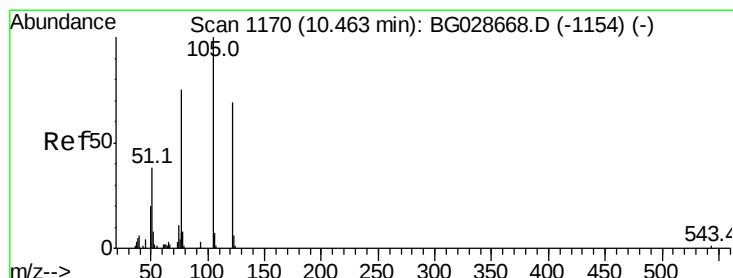
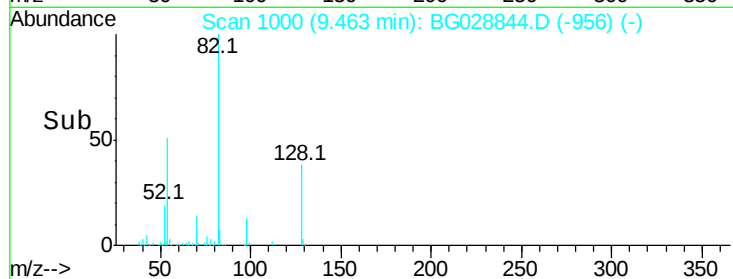
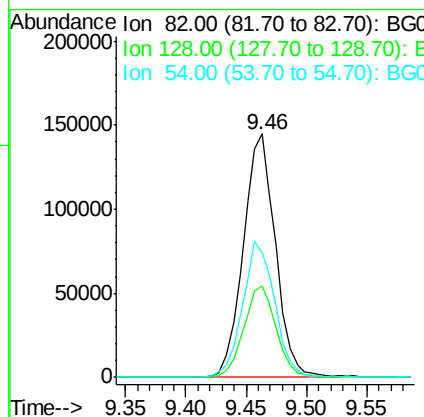
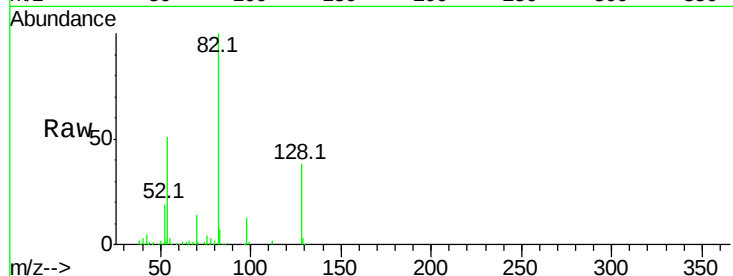




#23  
Nitrobenzene-d5  
Concen: 86.676 ng  
RT: 9.46 min Scan# 1000  
Delta R.T. -0.04 min  
Lab File: BG028844.D  
Acq: 21 Sep 2017 5:50

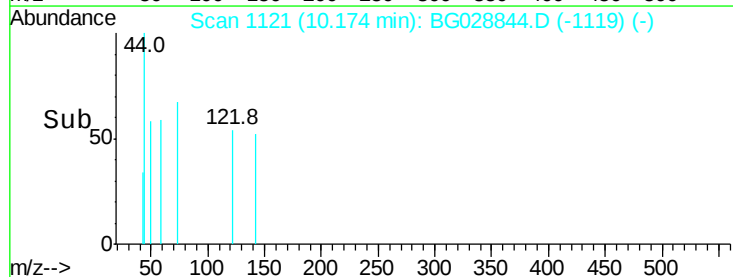
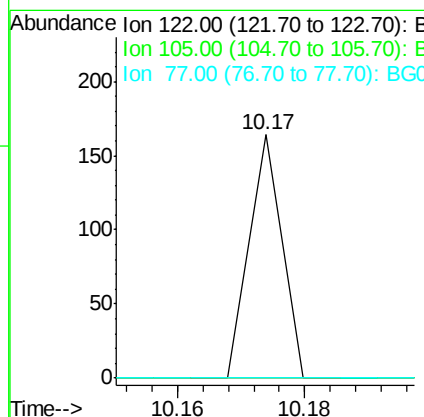
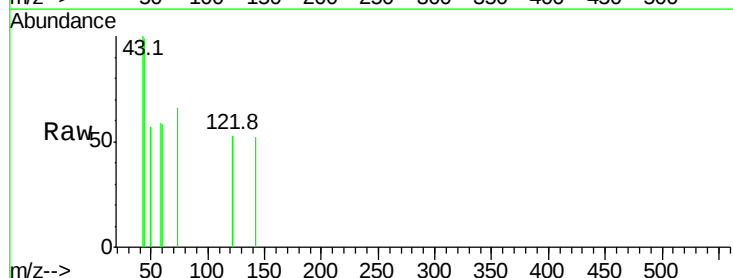
Instrument :  
BNA\_G  
ClientSampleId :

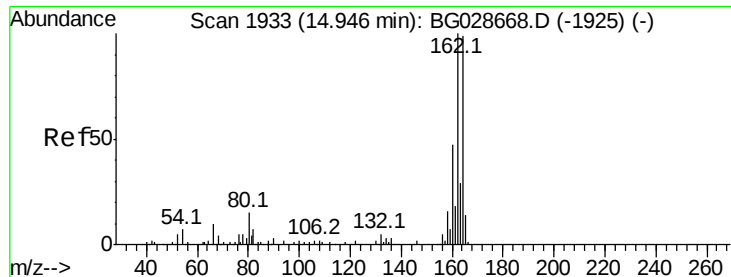
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.5  | 26.4  | 39.6  |
| 54      | 51.1  | 49.4  | 74.2  |



#32  
Benzoic acid  
Concen: 6.113 ng  
RT: 10.17 min Scan# 1121  
Delta R.T. -0.29 min  
Lab File: BG028844.D  
Acq: 21 Sep 2017 5:50

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 120.1 | 160.1# |
| 77      | 0.0   | 104.6 | 144.6# |

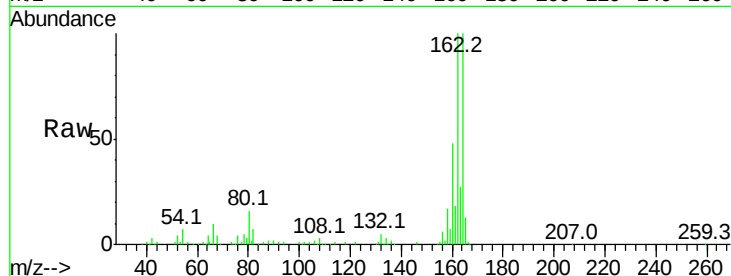




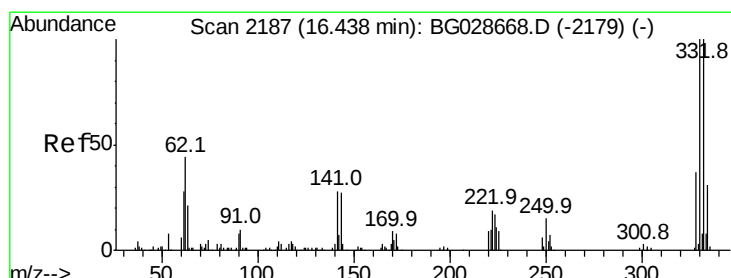
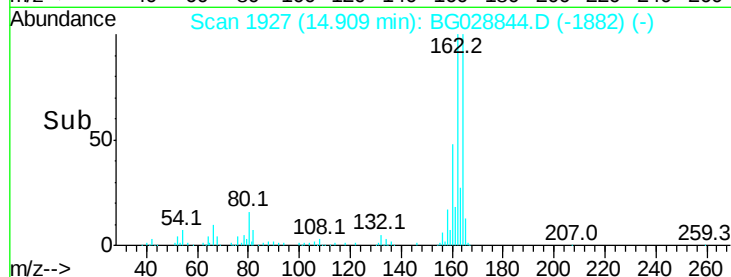
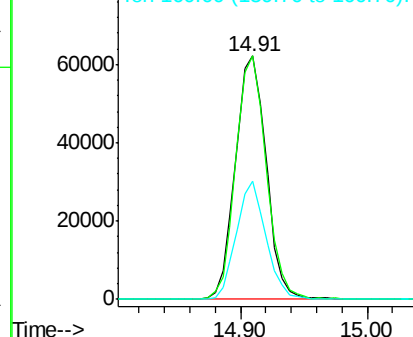
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.91 min Scan# 1927  
Delta R.T. -0.04 min  
Lab File: BG028844.D  
Acq: 21 Sep 2017 5:50

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 104438  
Ion Ratio Lower Upper  
164 100  
162 99.8 85.1 127.7  
160 48.4 34.7 52.1

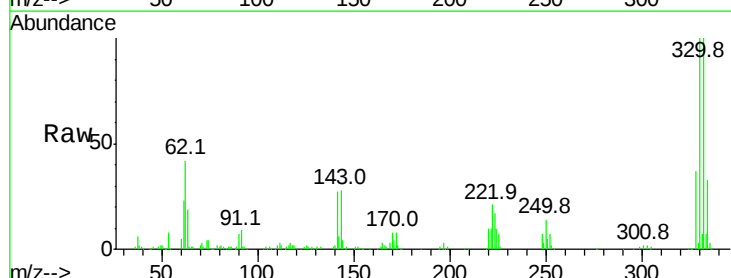


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

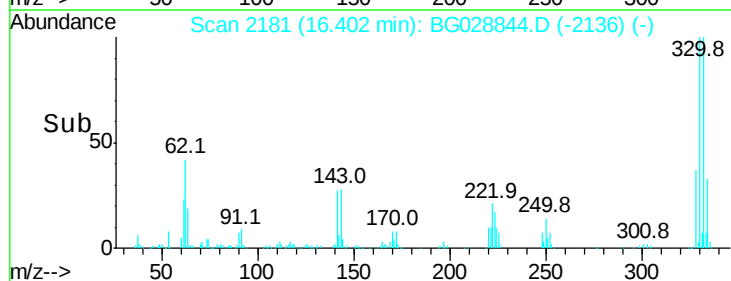
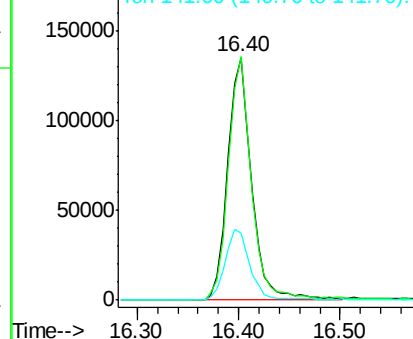


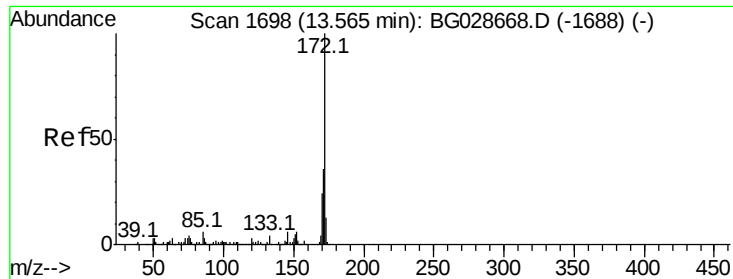
#41  
2,4,6-Tribromophenol  
Concen: 128.478 ng  
RT: 16.40 min Scan# 2181  
Delta R.T. -0.04 min  
Lab File: BG028844.D  
Acq: 21 Sep 2017 5:50

Tgt Ion:330 Resp: 221926  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.3 115.9  
141 30.5 32.1 48.1#



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

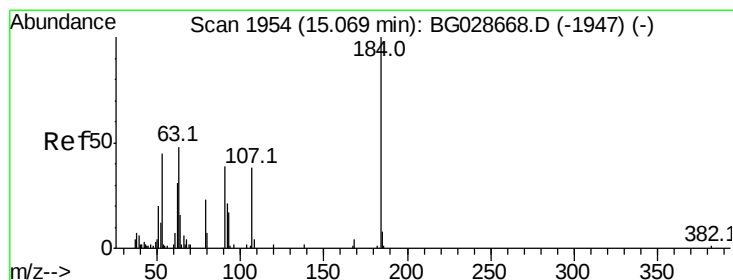
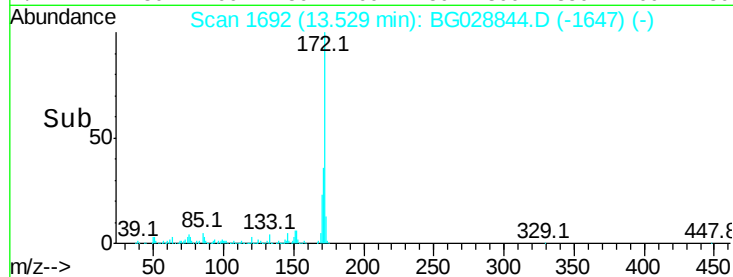
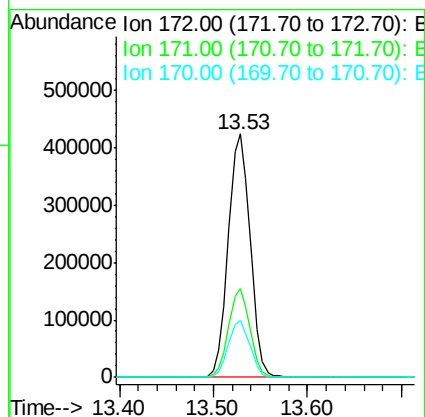
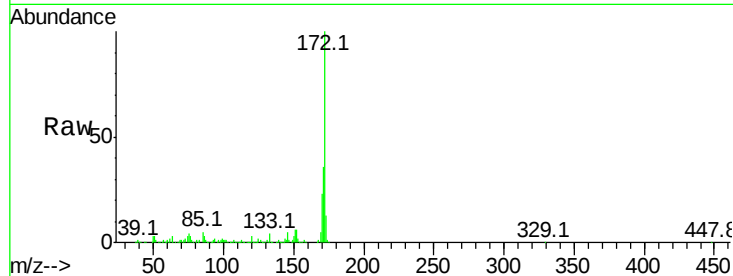




#44  
2-Fluorobiphenyl  
Concen: 87.881 ng  
RT: 13.53 min Scan# 1692  
Delta R.T. -0.04 min  
Lab File: BG028844.D  
Acq: 21 Sep 2017 5:50

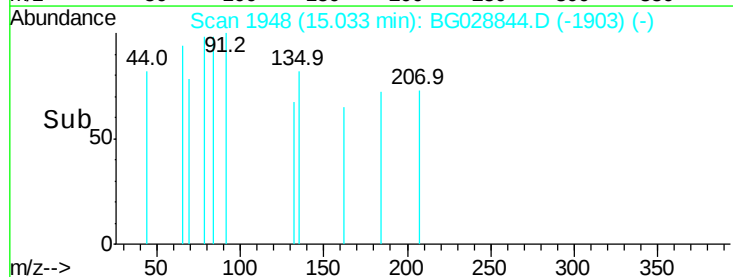
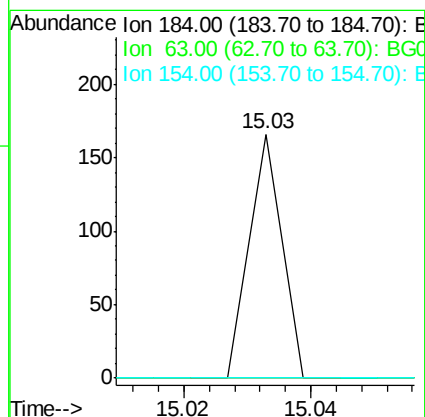
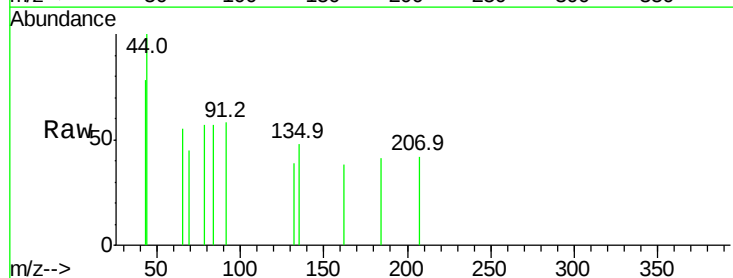
Instrument :  
BNA\_G  
ClientSampleId :

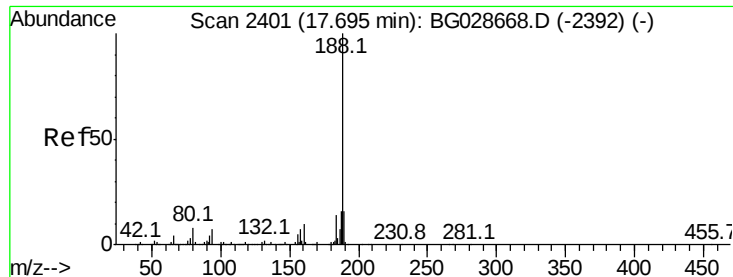
Tot Ion:172 Resp: 688313  
Ion Ratio Lower Upper  
172 100  
171 36.2 32.2 48.2  
170 23.3 21.8 32.6



#53  
2,4-Dinitrophenol  
Concen: 8.053 ng  
RT: 15.03 min Scan# 1948  
Delta R.T. -0.04 min  
Lab File: BG028844.D  
Acq: 21 Sep 2017 5:50

Tgt Ion:184 Resp: 59  
Ion Ratio Lower Upper  
184 100  
63 0.0 52.7 79.1#  
154 0.0 57.3 85.9#

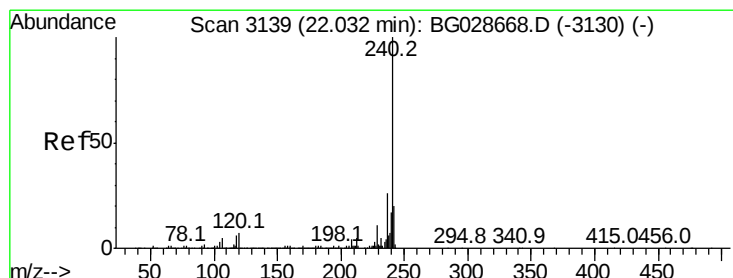
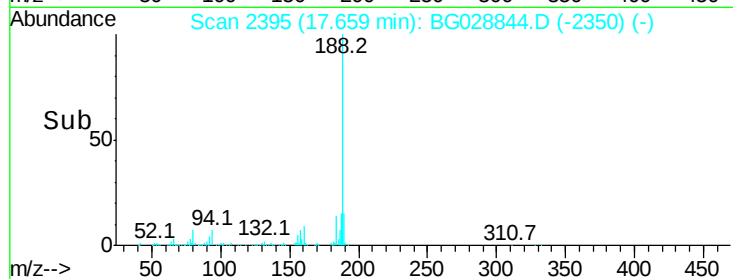
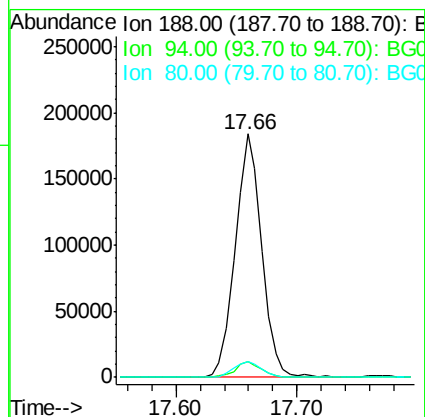
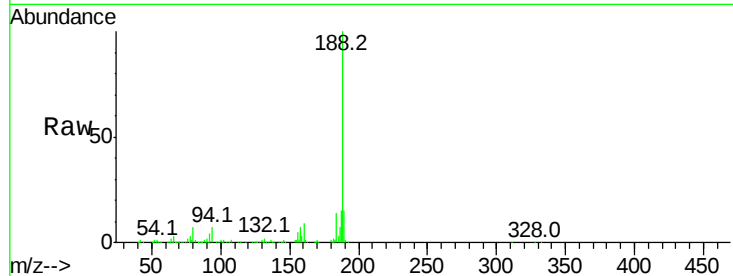




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.66 min Scan# 2395  
Delta R.T. -0.04 min  
Lab File: BG028844.D  
Acq: 21 Sep 2017 5:50

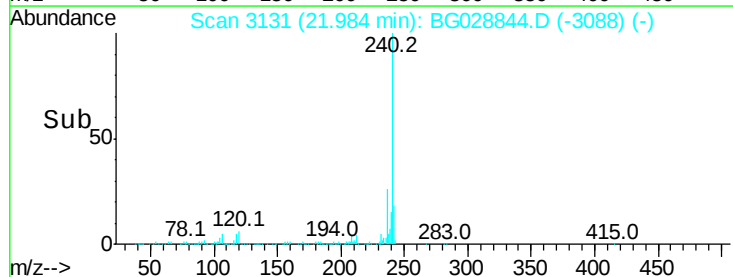
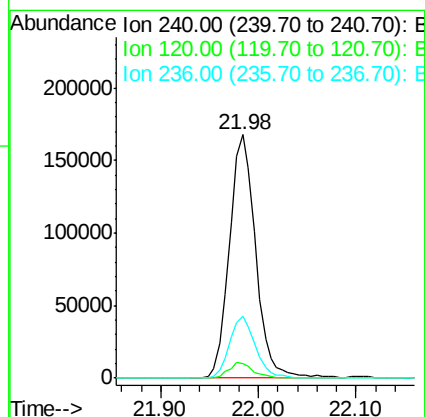
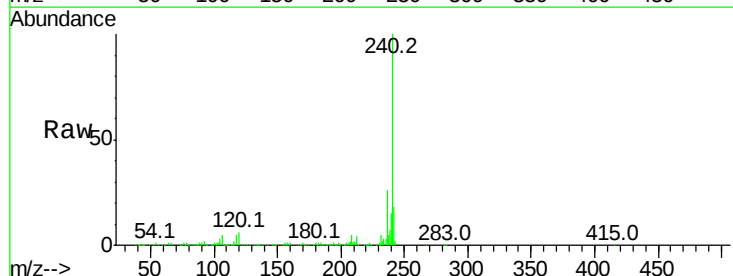
Instrument :  
BNA\_G  
ClientSampleId :

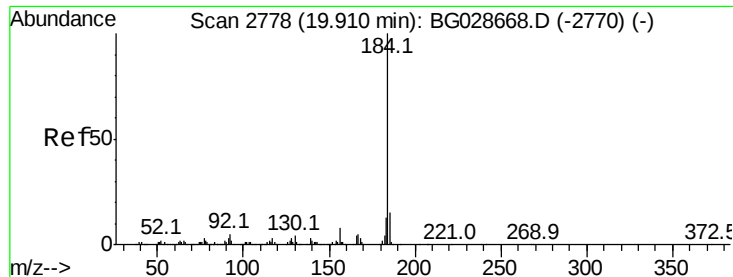
Tot Ion:188 Resp: 280324  
Ion Ratio Lower Upper  
188 100  
94 6.7 5.8 8.8  
80 6.7 7.5 11.3#



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.98 min Scan# 3131  
Delta R.T. -0.05 min  
Lab File: BG028844.D  
Acq: 21 Sep 2017 5:50

Tgt Ion:240 Resp: 313231  
Ion Ratio Lower Upper  
240 100  
120 5.7 5.7 8.5  
236 25.6 22.2 33.4





#76

Benzidine

Concen: 2.038 ng

RT: 19.89 min Scan# 2774

Delta R.T. -0.02 min

Lab File: BG028844.D

Acq: 21 Sep 2017 5:50

Instrument :

BNA\_G

ClientSampleId :

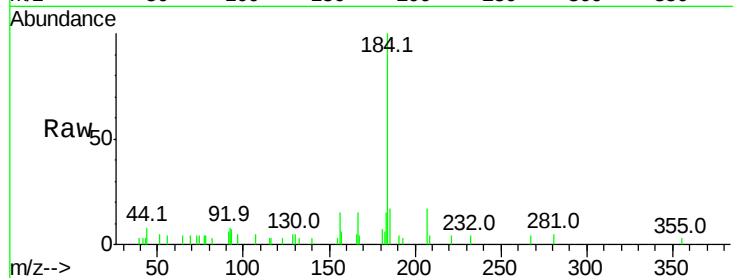
Tot Ion:184 Resp: 16552

Ion Ratio Lower Upper

184 100

185 17.5 13.0 19.6

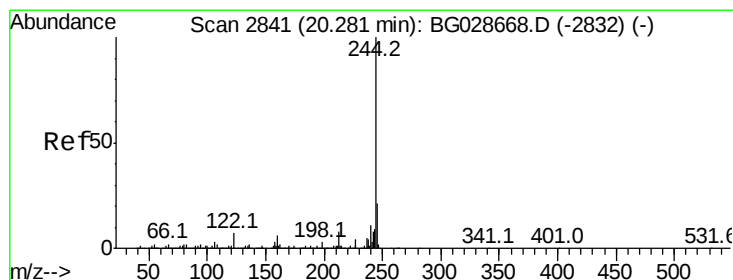
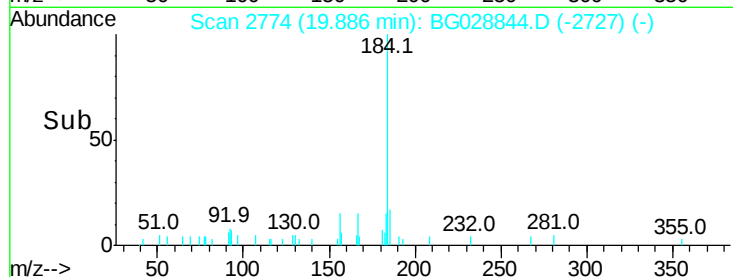
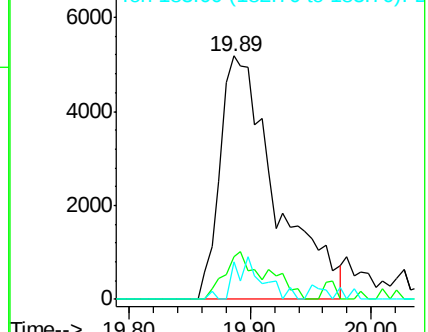
183 15.5 11.0 16.6



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: 88.853 ng

RT: 20.25 min Scan# 2836

Delta R.T. -0.03 min

Lab File: BG028844.D

Acq: 21 Sep 2017 5:50

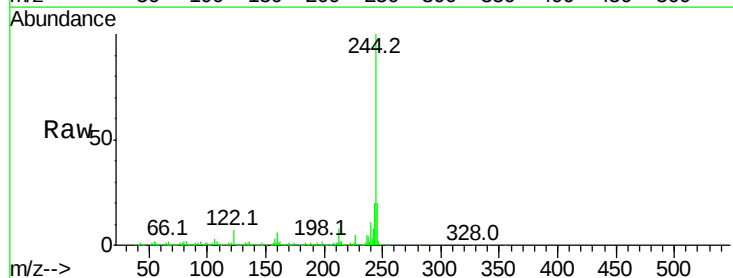
Tgt Ion:244 Resp: 1305076

Ion Ratio Lower Upper

244 100

212 7.6 10.0 15.0#

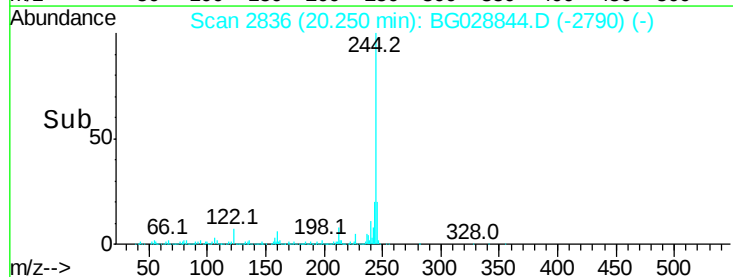
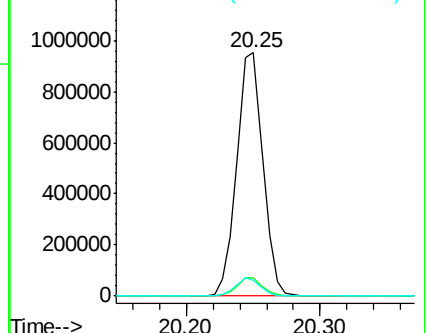
122 6.7 8.6 12.8#

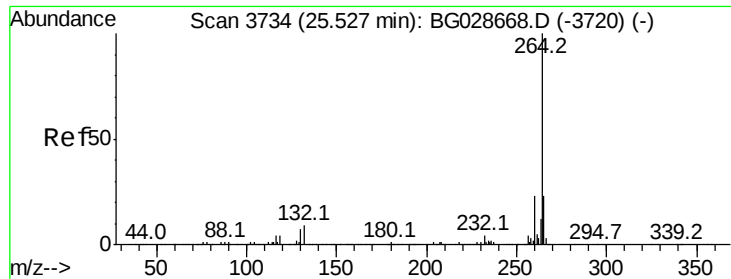


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.45 min Scan# 3721  
 Delta R.T. -0.08 min  
 Lab File: BG028844.D  
 Acq: 21 Sep 2017 5:50

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:264 Resp: 304007  
 Ion Ratio Lower Upper  
 264 100  
 260 25.5 21.8 32.8  
 265 21.8 18.2 27.4

