

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG082516\  
 Data File : BG023900.D  
 Acq On : 25 Aug 2016 19:11  
 Operator : UM/SJ  
 Sample : H4592-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DUPLICATE

Quant Time: Aug 26 01:05:25 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG080116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 24 17:42:04 2016  
 Response via : Initial Calibration

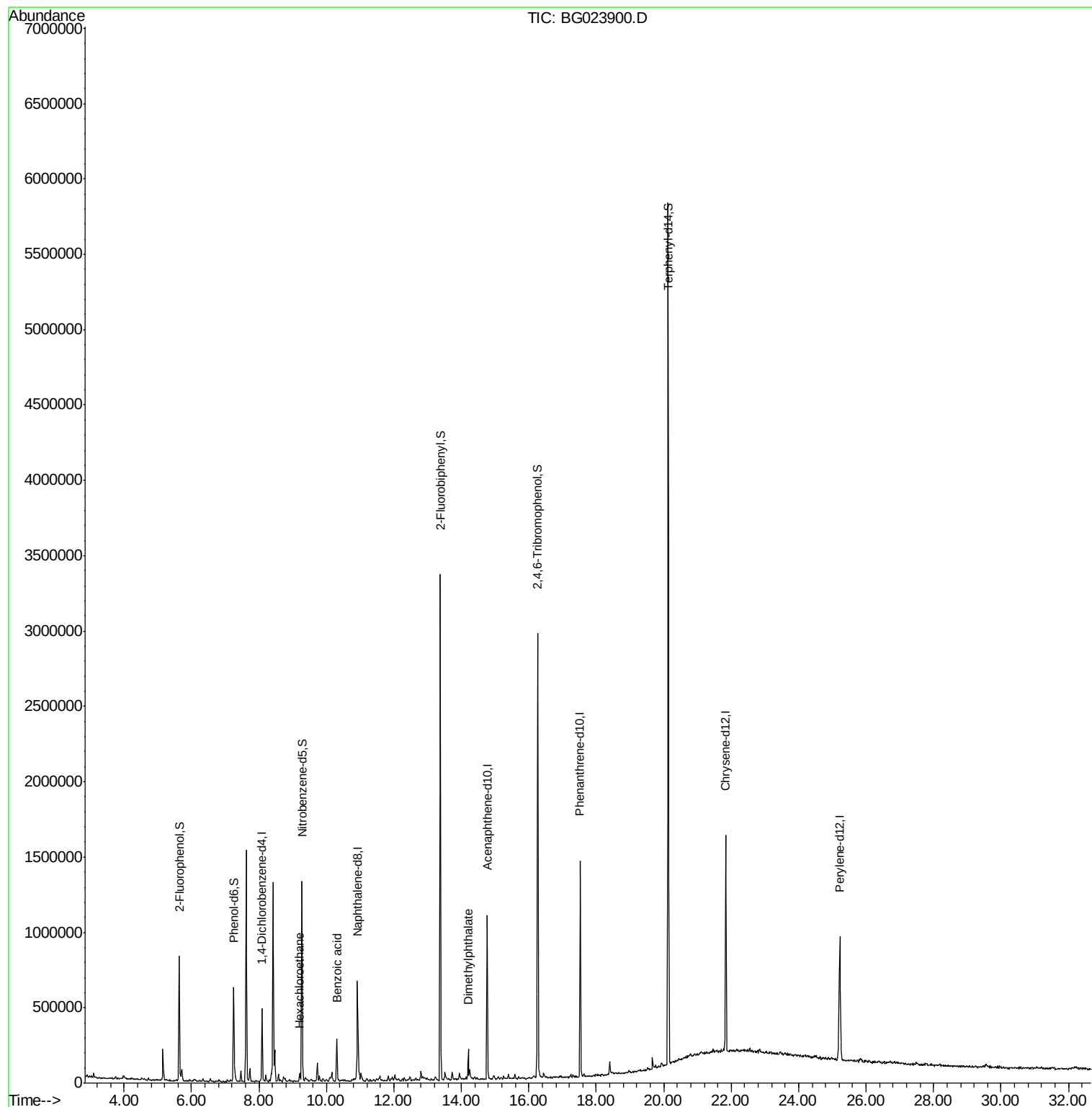
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.09  | 152  | 125467   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.92 | 136  | 551730   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10        | 14.76 | 164  | 363164   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.52 | 188  | 837816   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12            | 21.84 | 240  | 871085   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12            | 25.22 | 264  | 862354   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.63  | 112  | 356402   | 47.82     | ng    | 0.00     |
| 7) Phenol-d6                | 7.25  | 99   | 376997   | 32.47     | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.27  | 82   | 785440   | 70.77     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.26 | 330  | 499717   | 94.07     | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 1598964  | 74.26     | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.13 | 244  | 2268236  | 80.47     | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 9) Benzaldehyde             | 7.22  | 77   | 3330     | Below Cal | #     | 1        |
| 18) Hexachloroethane        | 9.20  | 117  | 16113    | 4.27 ng   | #     | 15       |
| 32) Benzoic acid            | 10.32 | 122  | 271      | 6.47 ng   | #     | 1        |
| 49) Dimethylphthalate       | 14.20 | 163  | 130275   | 4.68 ng   |       | 96       |
| 73) Di-n-butylphthalate     | 18.47 | 149  | 4278     | Below Cal | #     | 73       |
| 74) Fluoranthene            | 19.60 | 202  | 1725     | Below Cal | #     | 56       |
| 77) Pyrene                  | 19.95 | 202  | 8920     | Below Cal | #     | 81       |

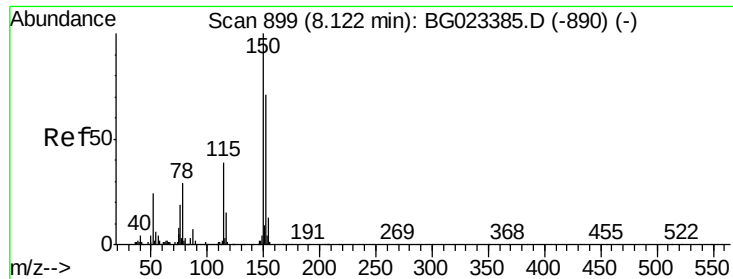
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG082516\  
Data File : BG023900.D  
Acq On : 25 Aug 2016 19:11  
Operator : UM/SJ  
Sample : H4592-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DUPLICATE

Quant Time: Aug 26 01:05:25 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG080116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 24 17:42:04 2016  
Response via : Initial Calibration



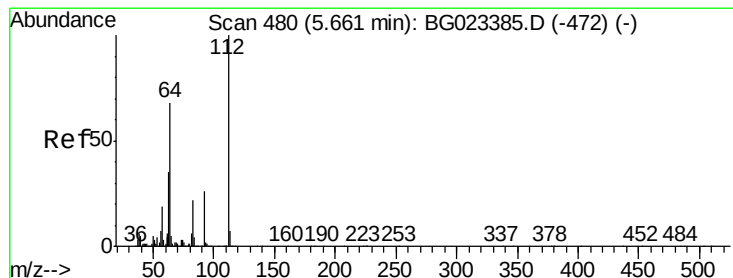
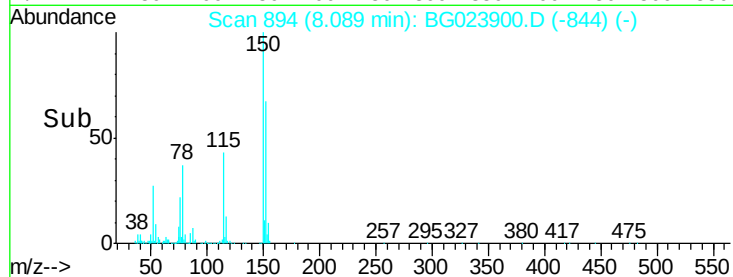
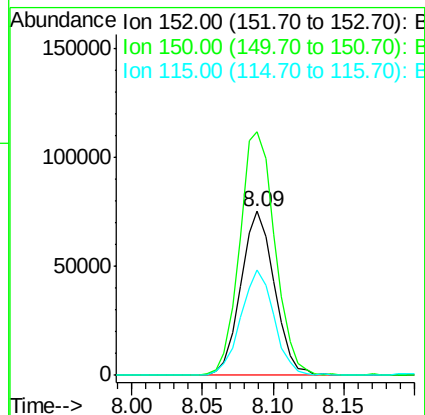
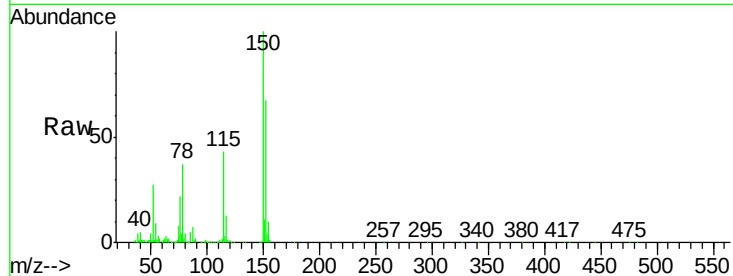


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.09 min Scan# 894  
Delta R.T. -0.01 min  
Lab File: BG023900.D  
Acq: 25 Aug 2016 19:11

Instrument :  
BNA\_G  
ClientSampleId :  
DUPLICATE

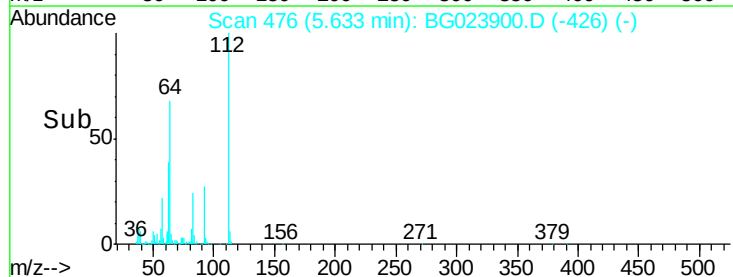
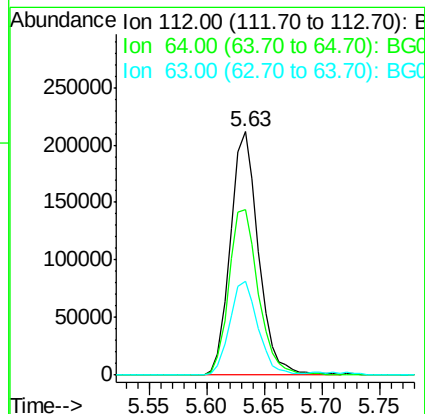
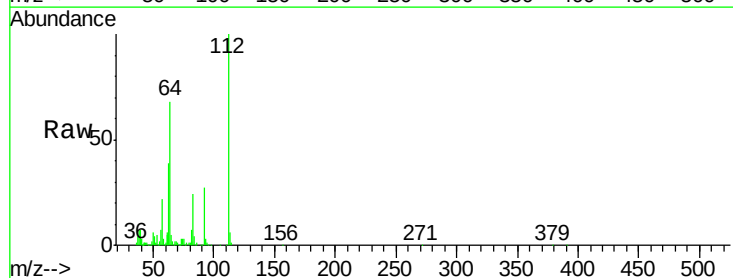
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.6 | 144.7 | 217.1 |
| 115     | 64.0  | 64.0  | 96.0  |

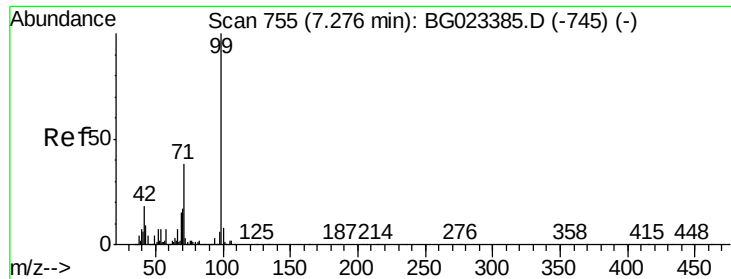


#5

2-Fluorophenol  
Concen: 47.82 ng  
RT: 5.63 min Scan# 476  
Delta R.T. -0.01 min  
Lab File: BG023900.D  
Acq: 25 Aug 2016 19:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.2  | 59.0  | 88.4  |
| 63      | 38.5  | 37.8  | 56.8  |





#7

Phenol-d6

Concen: 32.47 ng

RT: 7.25 min Scan# 751

Delta R.T. -0.01 min

Lab File: BG023900.D

Acq: 25 Aug 2016 19:11

Instrument :

BNA\_G

ClientSampleId :

DUPLICATE

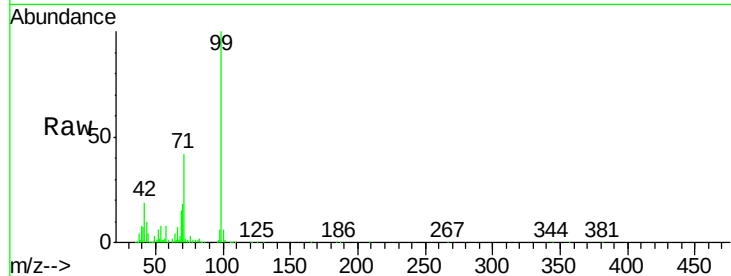
Tgt Ion: 99 Resp: 376997

Ion Ratio Lower Upper

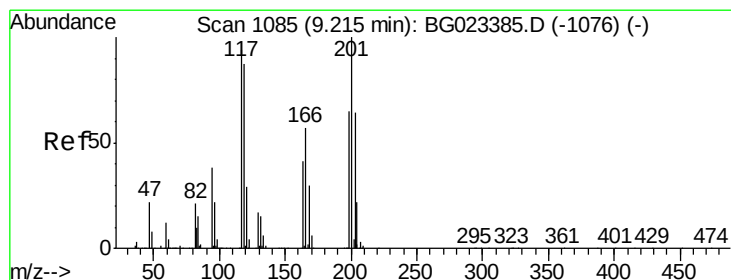
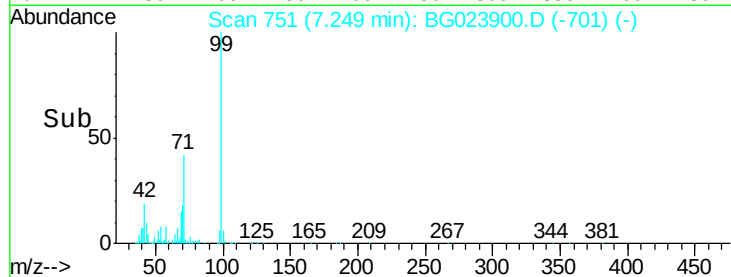
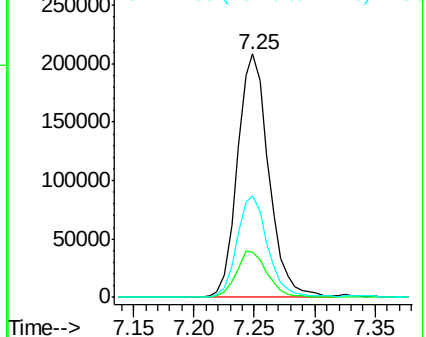
99 100

42 18.7 17.8 26.6

71 42.0 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



#18

Hexachloroethane

Concen: 4.27 ng

RT: 9.20 min Scan# 1084

Delta R.T. 0.02 min

Lab File: BG023900.D

Acq: 25 Aug 2016 19:11

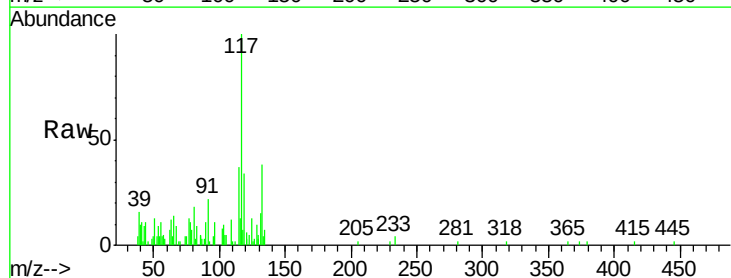
Tgt Ion: 117 Resp: 16113

Ion Ratio Lower Upper

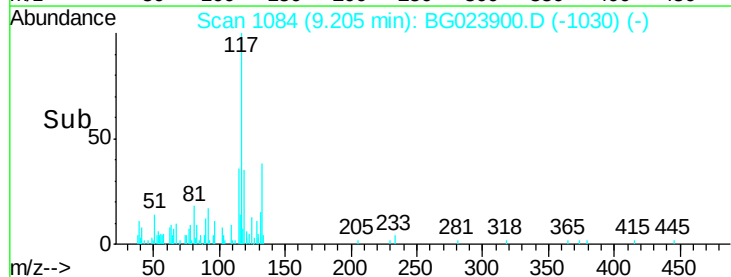
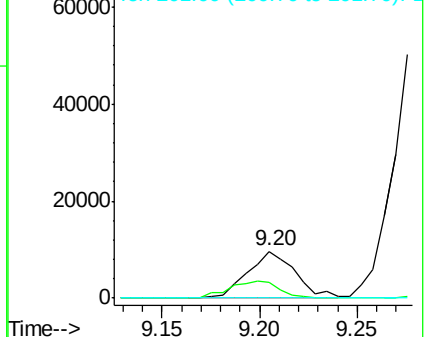
117 100

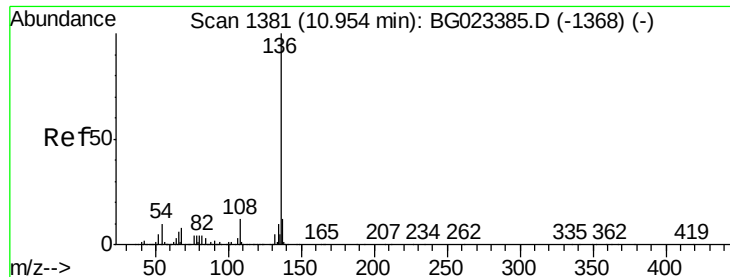
119 33.9 73.7 110.5#

201 0.0 88.7 133.1#



Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

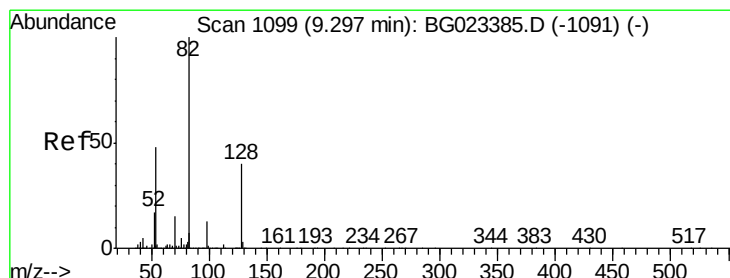
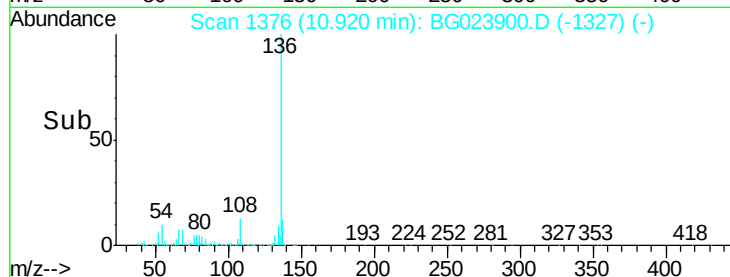
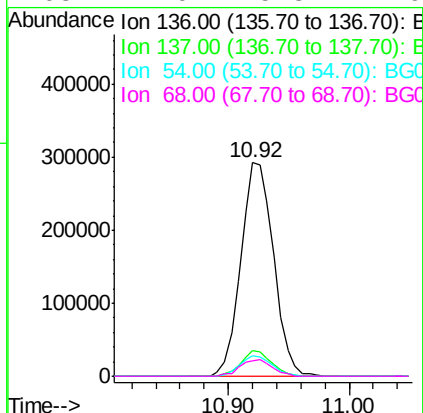
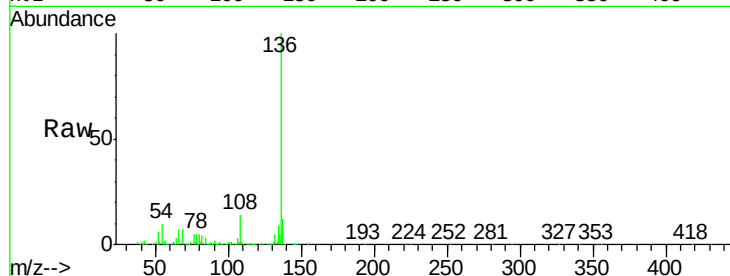




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.92 min Scan# 1376  
Delta R.T. -0.01 min  
Lab File: BG023900.D  
Acq: 25 Aug 2016 19:11

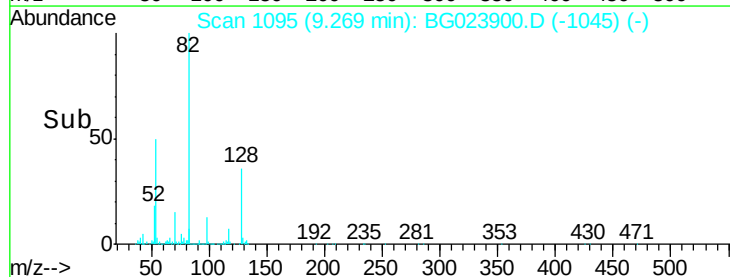
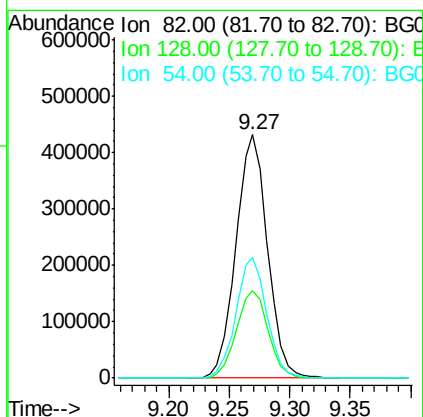
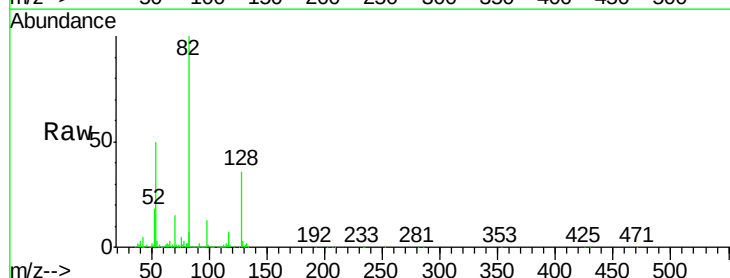
Instrument :  
BNA\_G  
ClientSampleId :  
DUPLICATE

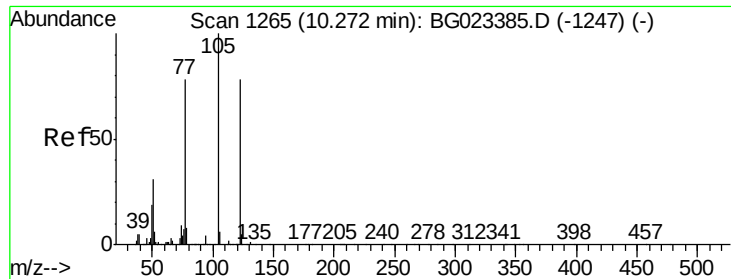
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 551730 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.9  | 9.6   | 14.4   |
| 54       | 9.7   | 7.3   | 10.9   |
| 68       | 7.0   | 5.3   | 7.9    |



#23  
Nitrobenzene-d5  
Concen: 70.77 ng  
RT: 9.27 min Scan# 1095  
Delta R.T. -0.01 min  
Lab File: BG023900.D  
Acq: 25 Aug 2016 19:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 785440 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 35.9  | 24.4  | 36.6   |
| 54       | 49.5  | 41.4  | 62.0   |

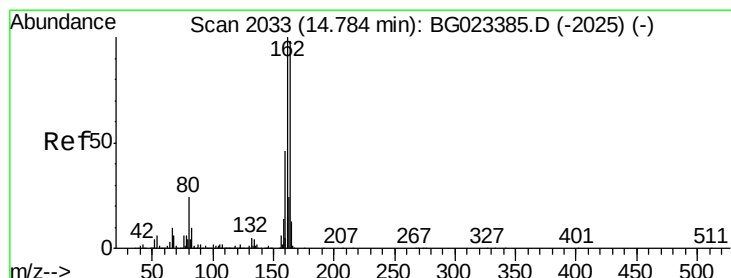
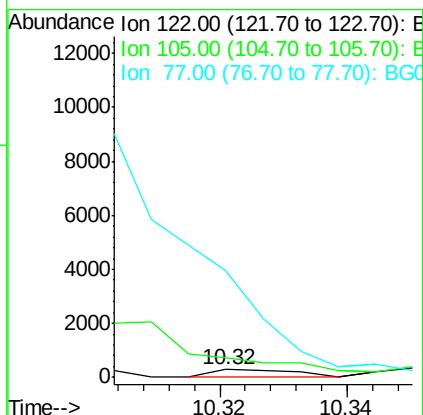
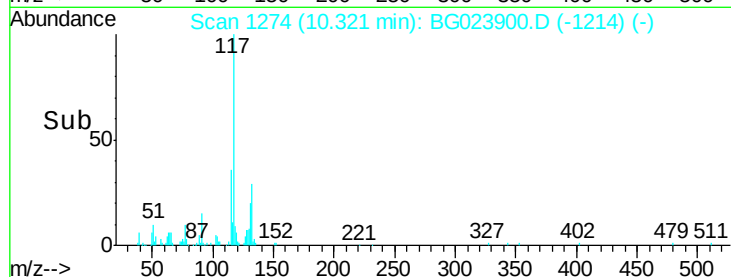
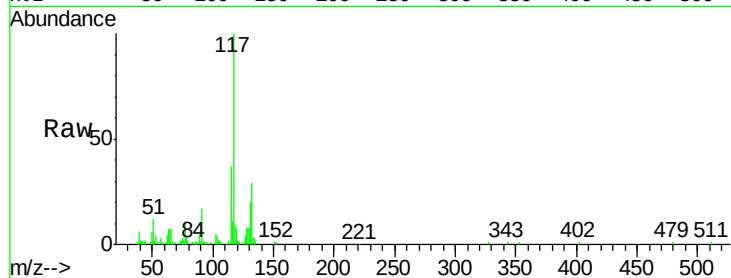




#32  
Benzoic acid  
Concen: 6.47 ng  
RT: 10.32 min Scan# 1274  
Delta R.T. 0.05 min  
Lab File: BG023900.D  
Acq: 25 Aug 2016 19:11

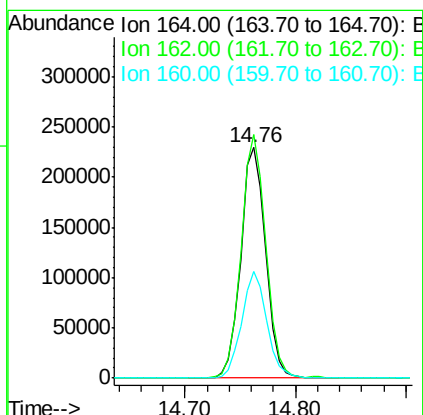
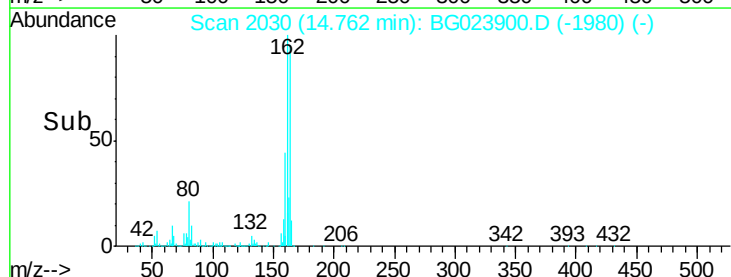
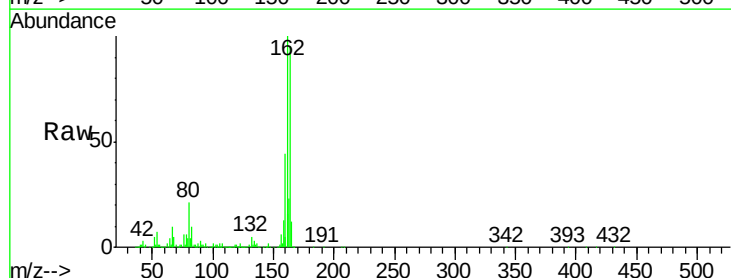
Instrument :  
BNA\_G  
ClientSampleId :  
DUPLICATE

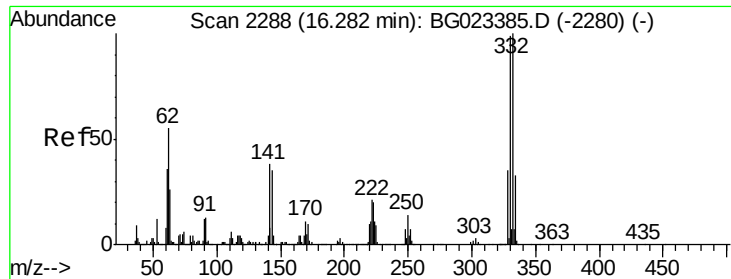
Tgt Ion:122 Resp: 271  
Ion Ratio Lower Upper  
122 100  
105 262.6 117.2 157.2#  
77 1416.9 109.2 149.2#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.76 min Scan# 2030  
Delta R.T. -0.01 min  
Lab File: BG023900.D  
Acq: 25 Aug 2016 19:11

Tgt Ion:164 Resp: 363164  
Ion Ratio Lower Upper  
164 100  
162 105.5 87.7 131.5  
160 46.1 37.2 55.8

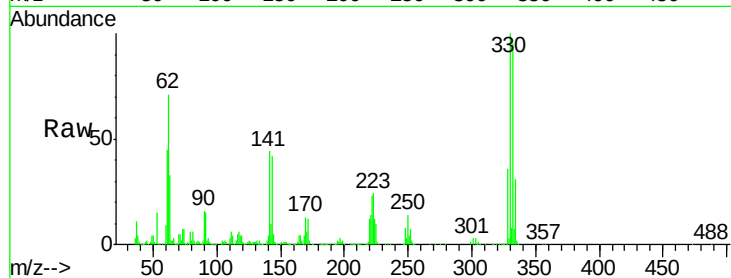




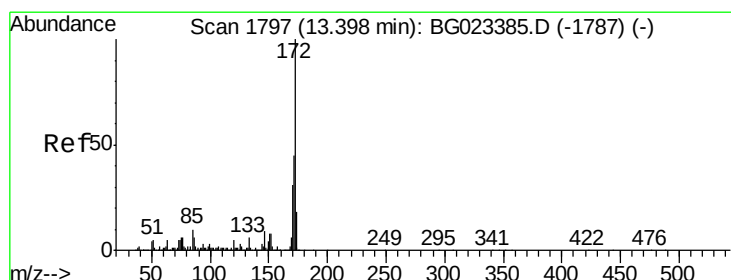
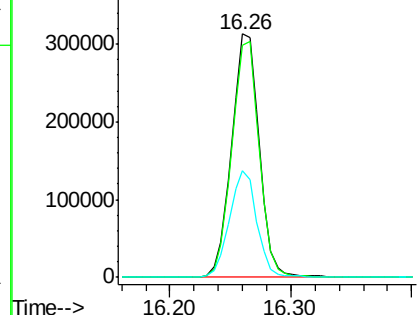
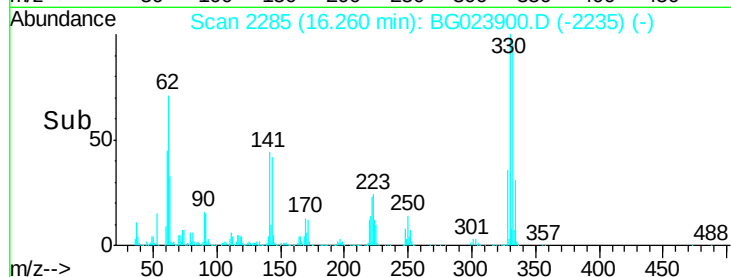
#41  
 2,4,6-Tribromophenol  
 Concen: 94.07 ng  
 RT: 16.26 min Scan# 2285  
 Delta R.T. -0.01 min  
 Lab File: BG023900.D  
 Acq: 25 Aug 2016 19:11

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DUPLICATE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 77.4  | 116.2 |
| 141     | 43.0  | 31.7  | 47.5  |

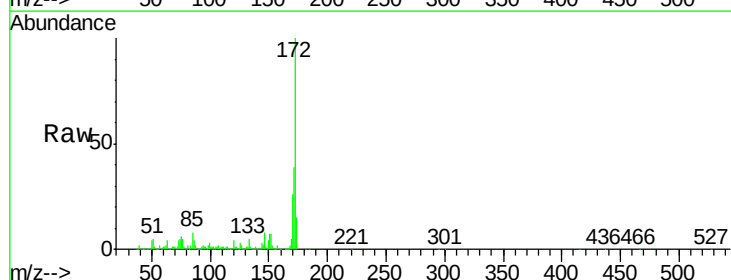


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

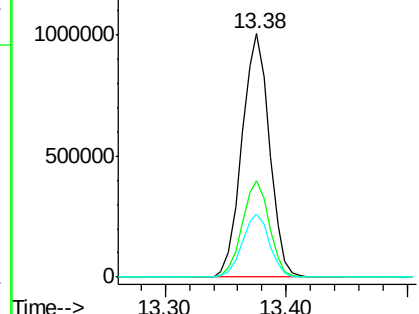
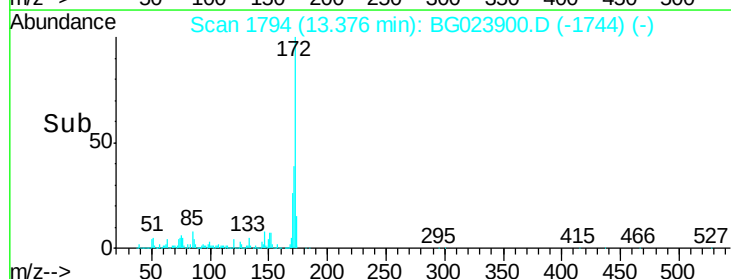


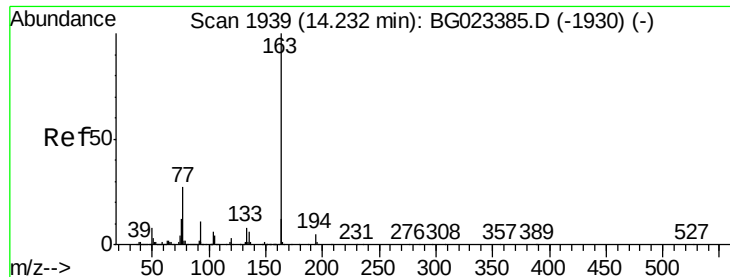
#44  
 2-Fluorobiphenyl  
 Concen: 74.26 ng  
 RT: 13.38 min Scan# 1794  
 Delta R.T. -0.01 min  
 Lab File: BG023900.D  
 Acq: 25 Aug 2016 19:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 39.5  | 31.6  | 47.4  |
| 170     | 25.9  | 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: 4.68 ng

RT: 14.20 min Scan# 1935

Delta R.T. -0.01 min

Lab File: BG023900.D

Acq: 25 Aug 2016 19:11

Instrument :

BNA\_G

ClientSampleId :

DUPLICATE

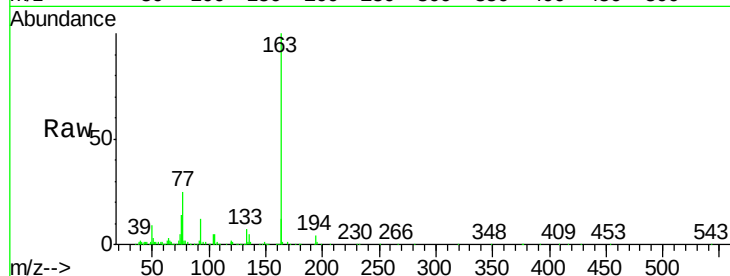
Tgt Ion:163 Resp: 130275

Ion Ratio Lower Upper

163 100

194 3.7 3.6 5.4

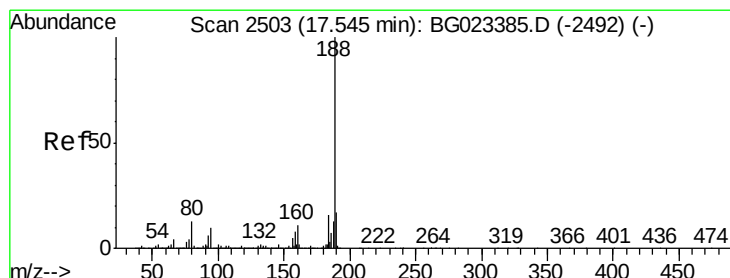
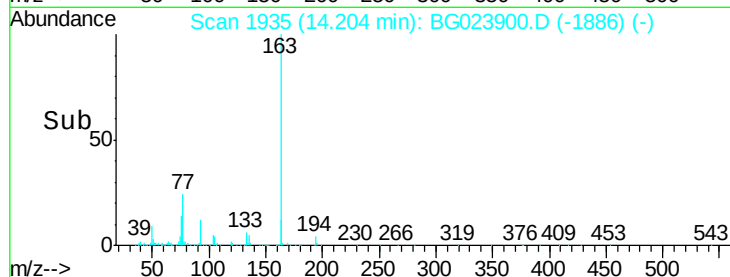
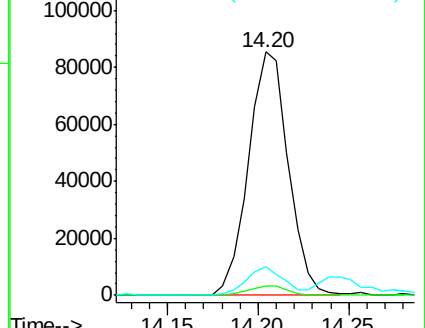
164 11.6 8.1 12.1



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: 17.52 min Scan# 2500

Delta R.T. -0.01 min

Lab File: BG023900.D

Acq: 25 Aug 2016 19:11

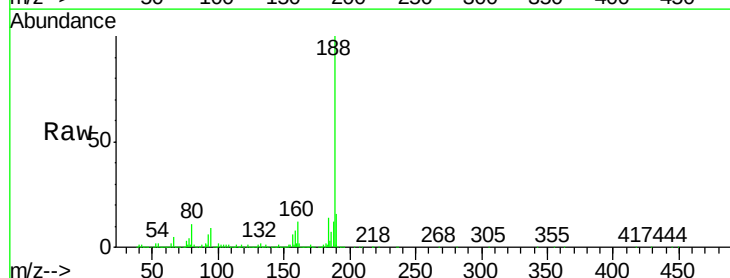
Tgt Ion:188 Resp: 837816

Ion Ratio Lower Upper

188 100

94 9.1 5.2 7.8#

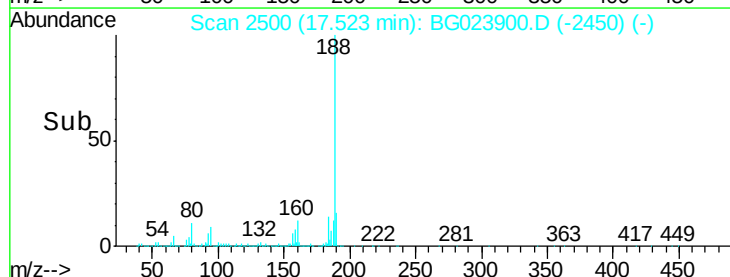
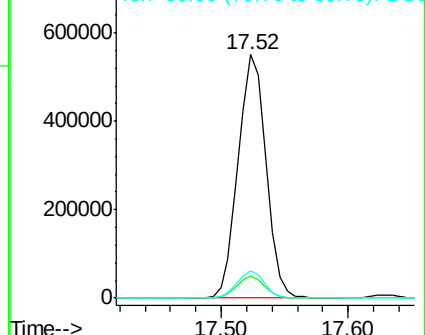
80 11.1 7.2 10.8#



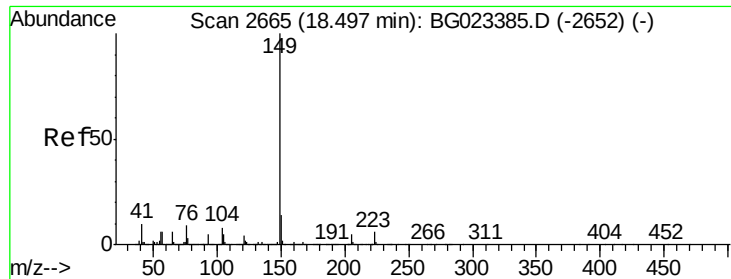
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC







#73

Di-n-butylphthalate

Concen: Below Cal

RT: 18.47 min Scan# 2661

Delta R.T. -0.01 min

Lab File: BG023900.D

Acq: 25 Aug 2016 19:11

Instrument :

BNA\_G

ClientSampleId :

DUPLICATE

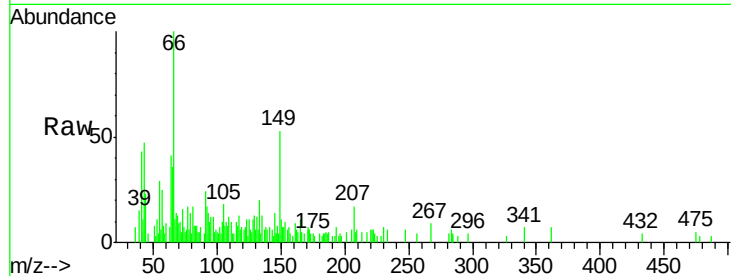
Tgt Ion:149 Resp: 4278

Ion Ratio Lower Upper

149 100

150 21.1 9.1 13.7#

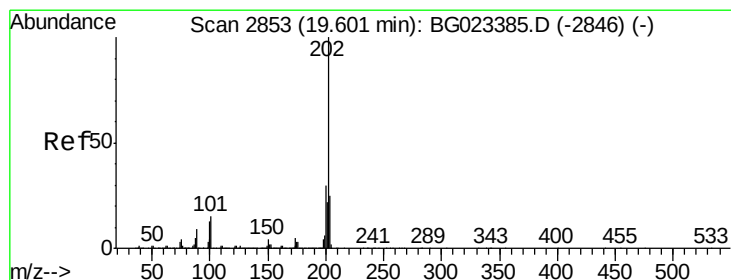
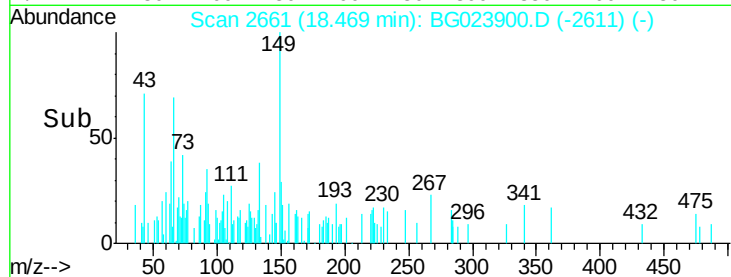
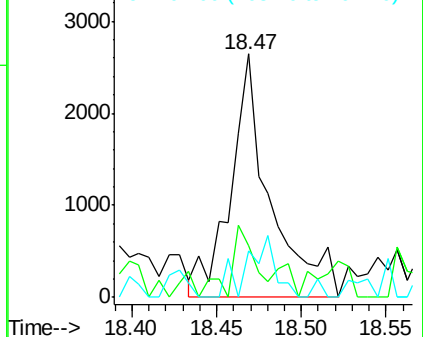
104 18.9 6.9 10.3#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: Below Cal

RT: 19.60 min Scan# 2853

Delta R.T. 0.01 min

Lab File: BG023900.D

Acq: 25 Aug 2016 19:11

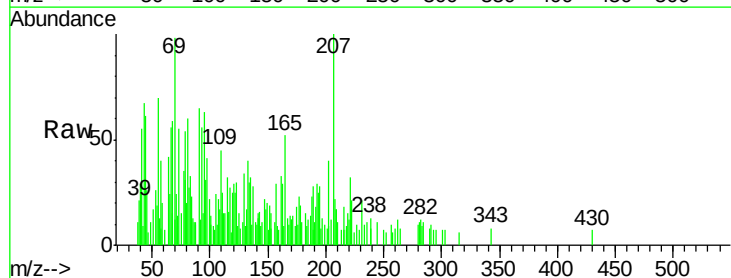
Tgt Ion:202 Resp: 1725

Ion Ratio Lower Upper

202 100

101 20.9 0.0 27.4

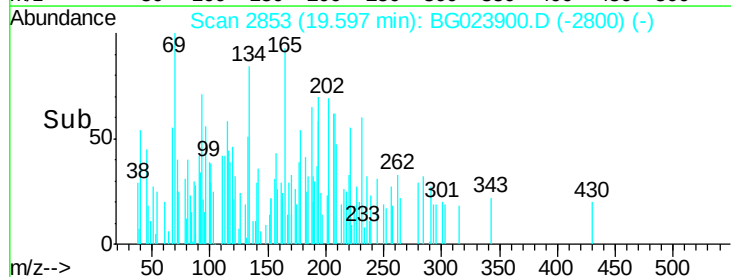
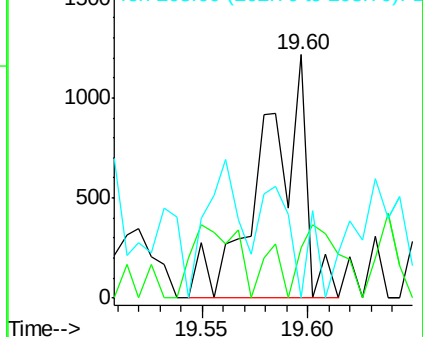
203 0.0 1.7 41.7#

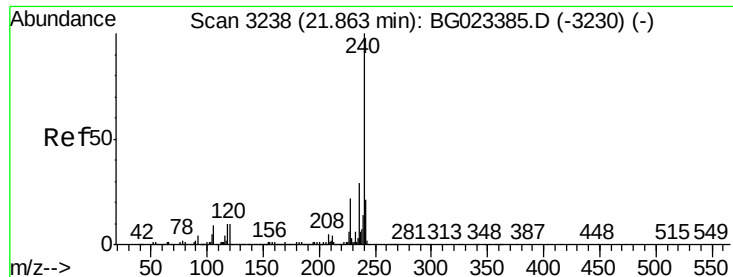


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

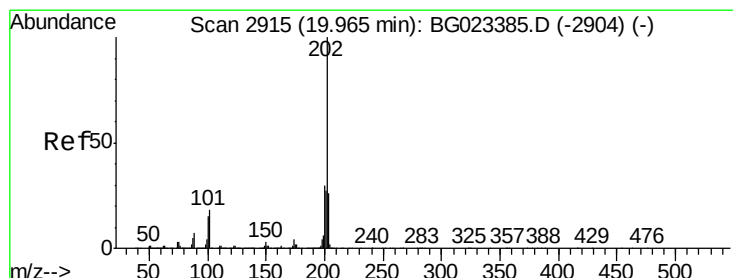
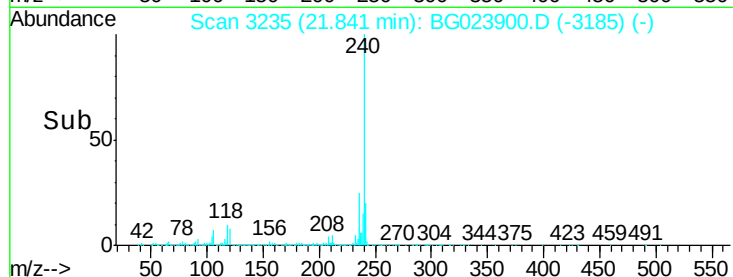
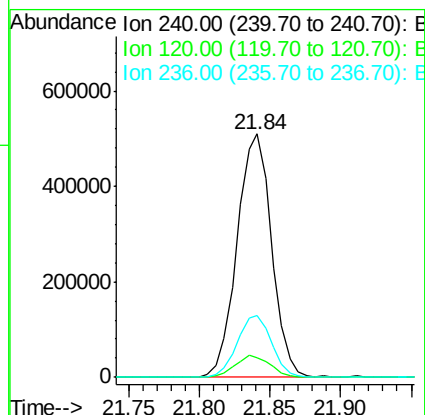
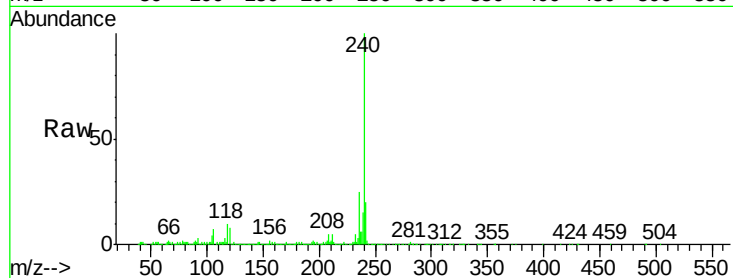




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.84 min Scan# 3235  
Delta R.T. -0.01 min  
Lab File: BG023900.D  
Acq: 25 Aug 2016 19:11

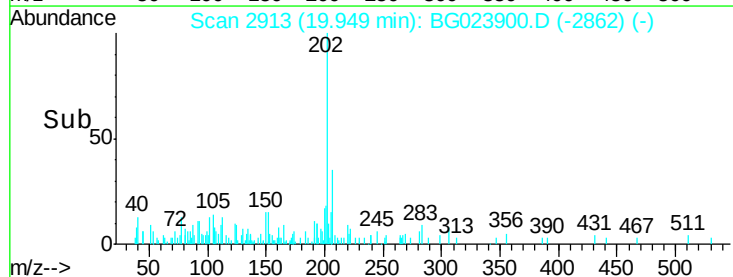
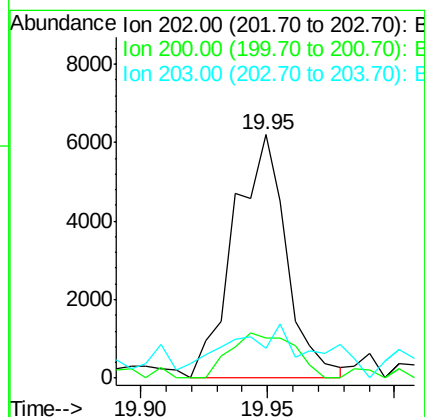
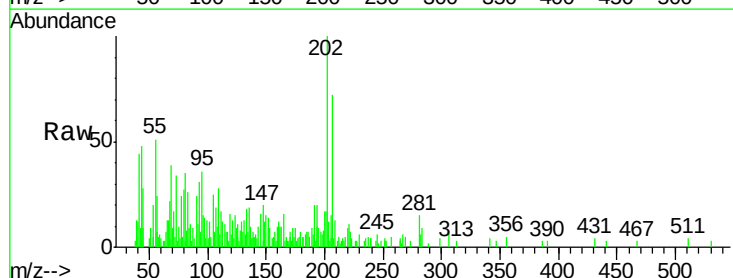
Instrument :  
BNA\_G  
ClientSampleId :  
DUPLICATE

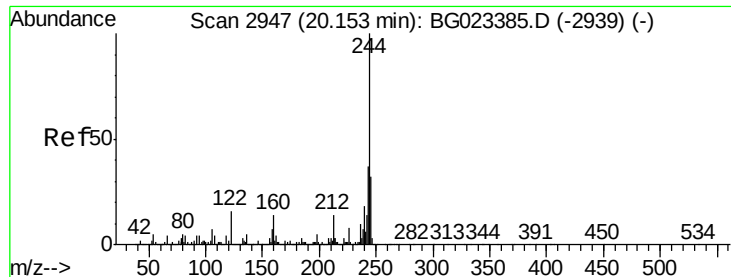
Tgt Ion:240 Resp: 871085  
Ion Ratio Lower Upper  
240 100  
120 8.3 4.1 6.1#  
236 25.4 21.1 31.7



#77  
Pyrene  
Concen: Below Cal  
RT: 19.95 min Scan# 2913  
Delta R.T. -0.00 min  
Lab File: BG023900.D  
Acq: 25 Aug 2016 19:11

Tgt Ion:202 Resp: 8920  
Ion Ratio Lower Upper  
202 100  
200 16.7 21.2 31.8#  
203 12.3 16.8 25.2#





#78

Terphenyl-d14

Concen: 80.47 ng

RT: 20.13 min Scan# 2944

Delta R.T. -0.01 min

Lab File: BG023900.D

Acq: 25 Aug 2016 19:11

Instrument :

BNA\_G

ClientSampleId :

DUPLICATE

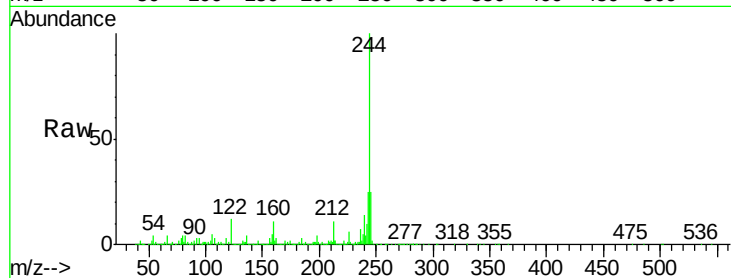
Tgt Ion:244 Resp: 2268236

Ion Ratio Lower Upper

244 100

212 11.4 10.8 16.2

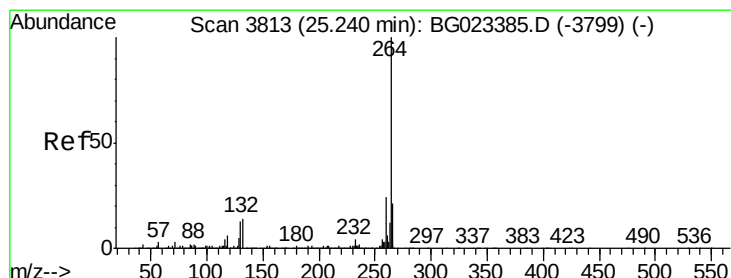
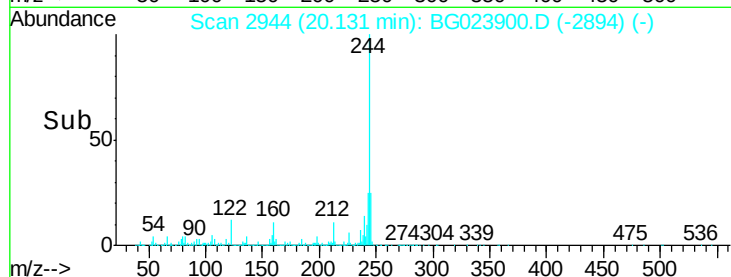
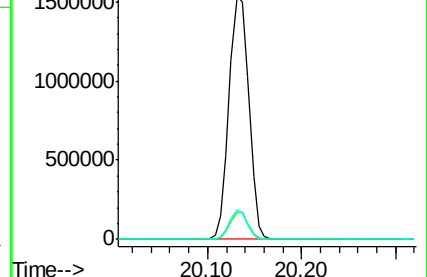
122 12.1 8.0 12.0#



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: 25.22 min Scan# 3810

Delta R.T. -0.01 min

Lab File: BG023900.D

Acq: 25 Aug 2016 19:11

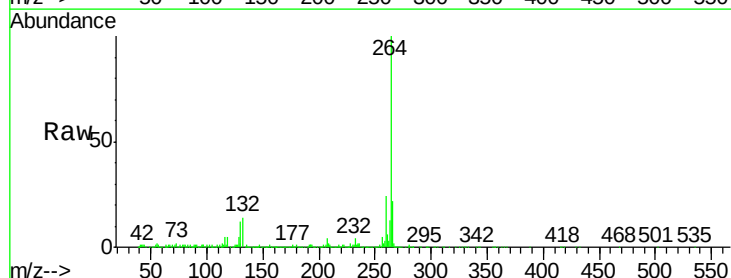
Tgt Ion:264 Resp: 862354

Ion Ratio Lower Upper

264 100

260 23.9 18.4 27.6

265 22.2 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

