

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG080216\  
 Data File : BG023416.D  
 Acq On : 3 Aug 2016 4:22  
 Operator : UM/SJ  
 Sample : H4288-14  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-66-10.0-11.0

Quant Time: Aug 03 06:49:51 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG080116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 01 19:22:14 2016  
 Response via : Initial Calibration

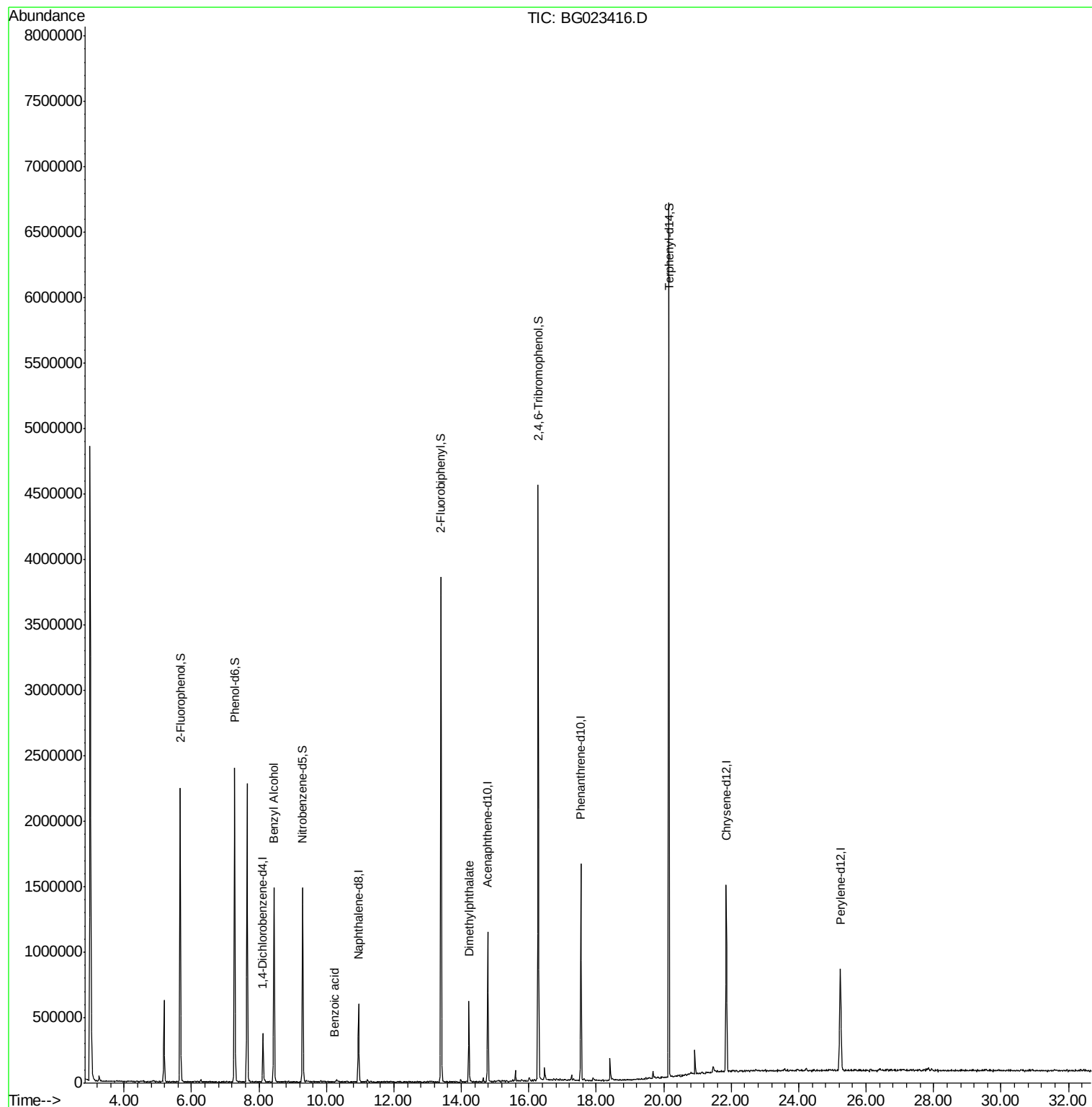
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.12  | 152  | 101687   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.95 | 136  | 483012   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.78 | 164  | 370791   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.54 | 188  | 962382   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12            | 21.85 | 240  | 854142   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12            | 25.23 | 264  | 885776   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.66  | 112  | 965259   | 159.78    | ng    | 0.00     |
| 7) Phenol-d6                | 7.28  | 99   | 1459527  | 155.12    | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.29  | 82   | 944278   | 97.19     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.28 | 330  | 849493   | 156.63    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.40 | 172  | 1954864  | 88.92     | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.15 | 244  | 2543576  | 95.57     | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 9) Benzaldehyde             | 7.27  | 77   | 3404     | Below Cal | #     | 8        |
| 15) Benzyl Alcohol          | 8.45  | 79   | 14842    | 2.08 ng   | #     | 48       |
| 32) Benzoic acid            | 10.25 | 122  | 108      | 6.46 ng   | #     | 1        |
| 49) Dimethylphthalate       | 14.22 | 163  | 387325   | 13.62 ng  |       | 99       |
| 73) Di-n-butylphthalate     | 18.49 | 149  | 5187     | Below Cal | #     | 82       |
| 74) Fluoranthene            | 19.60 | 202  | 1125     | Below Cal | #     | 60       |
| 77) Pyrene                  | 19.97 | 202  | 826      | Below Cal | #     | 55       |

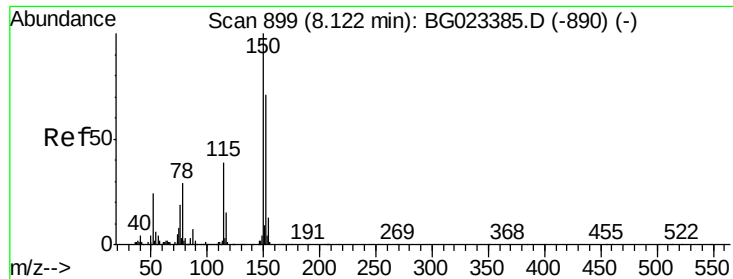
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG080216\  
Data File : BG023416.D  
Acq On : 3 Aug 2016 4:22  
Operator : UM/SJ  
Sample : H4288-14  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-66-10.0-11.0

Quant Time: Aug 03 06:49:51 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG080116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 01 19:22:14 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.12 min Scan# 899

Delta R.T. -0.00 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

Instrument :

BNA\_G

ClientSampleId :

SB-66-10.0-11.0

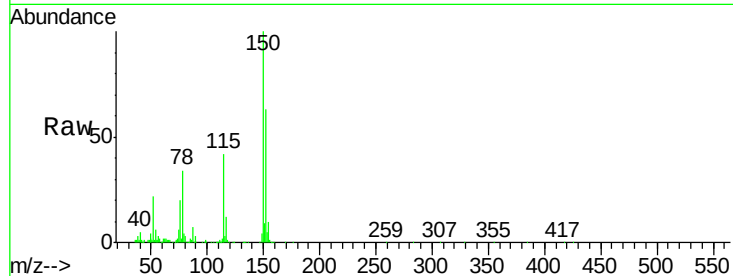
Tgt Ion:152 Resp: 101687

Ion Ratio Lower Upper

152 100

150 159.1 144.7 217.1

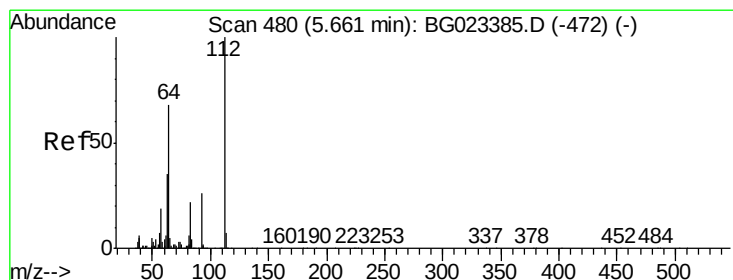
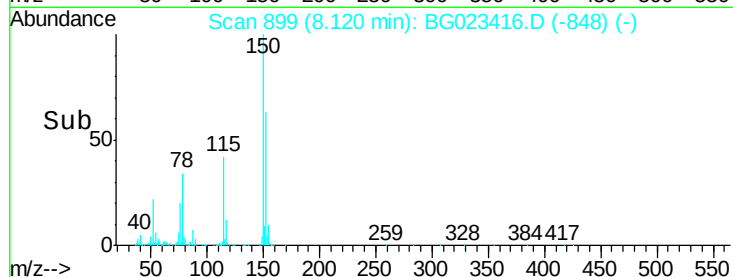
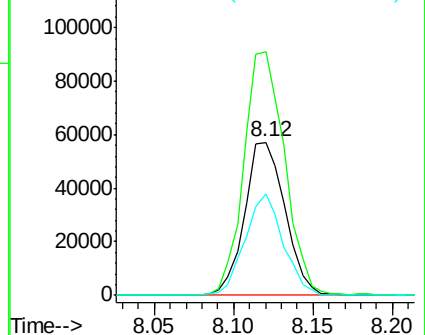
115 66.3 64.0 96.0



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: 159.78 ng

RT: 5.66 min Scan# 481

Delta R.T. 0.00 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

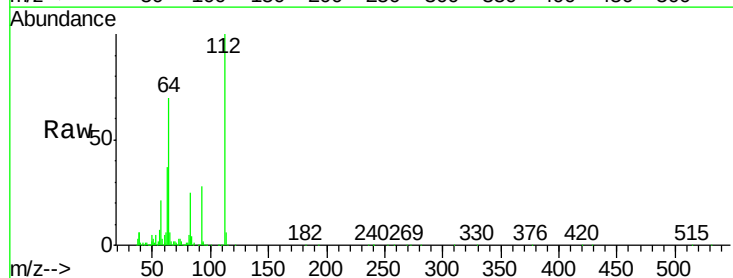
Tgt Ion:112 Resp: 965259

Ion Ratio Lower Upper

112 100

64 69.6 59.0 88.4

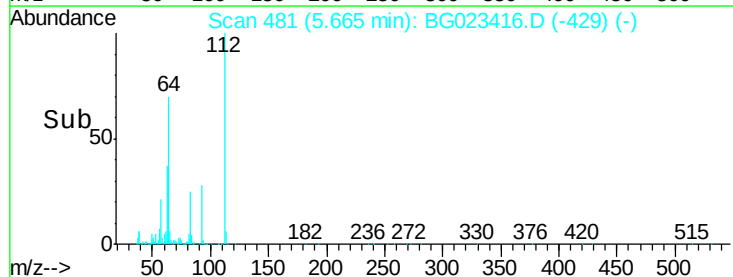
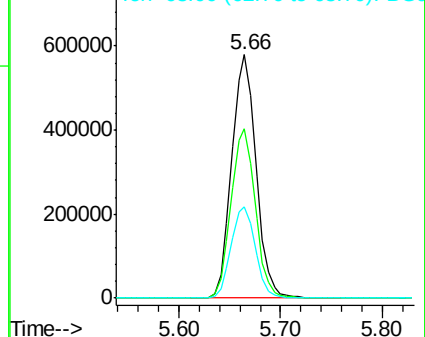
63 37.5 37.8 56.8#

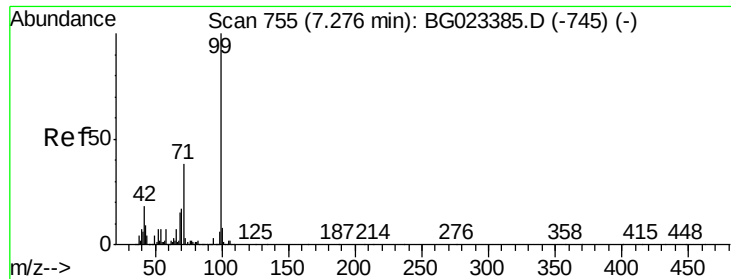


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 155.12 ng

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

Instrument :

BNA\_G

ClientSampleId :

SB-66-10.0-11.0

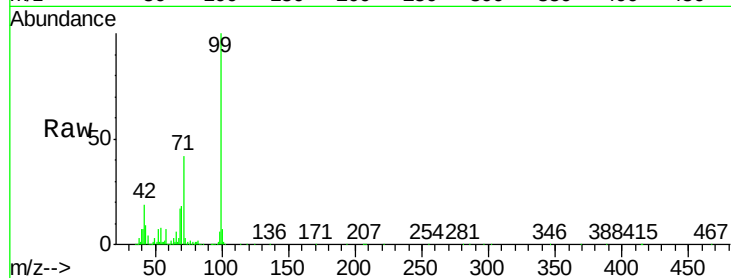
Tgt Ion: 99 Resp: 1459527

Ion Ratio Lower Upper

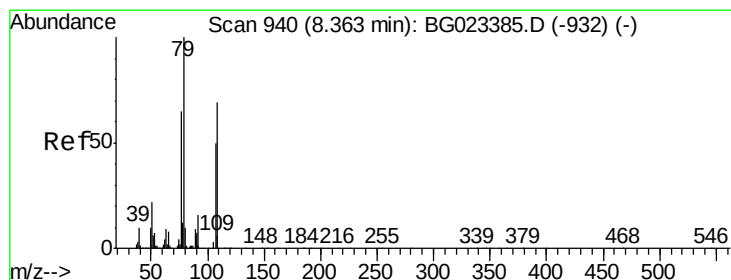
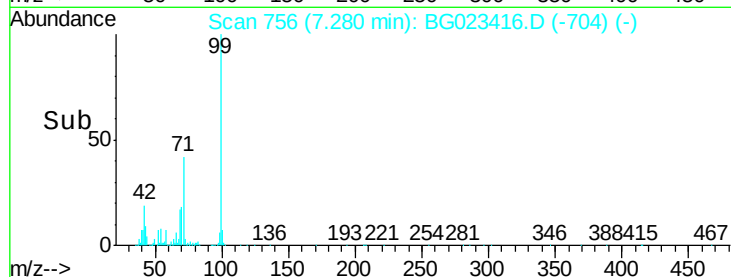
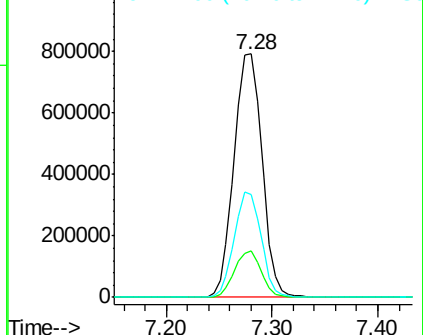
99 100

42 19.0 17.8 26.6

71 42.5 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



#15

Benzyl Alcohol

Concen: 2.08 ng

RT: 8.45 min Scan# 955

Delta R.T. 0.09 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

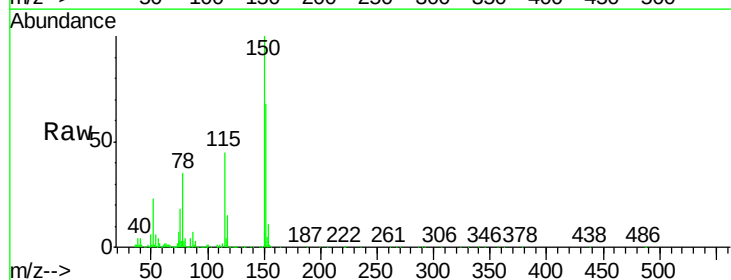
Tgt Ion: 79 Resp: 14842

Ion Ratio Lower Upper

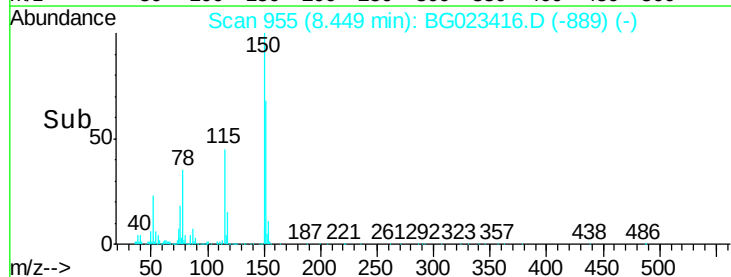
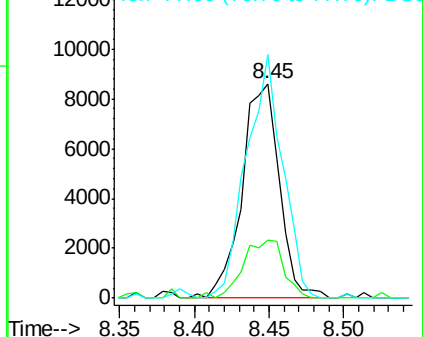
79 100

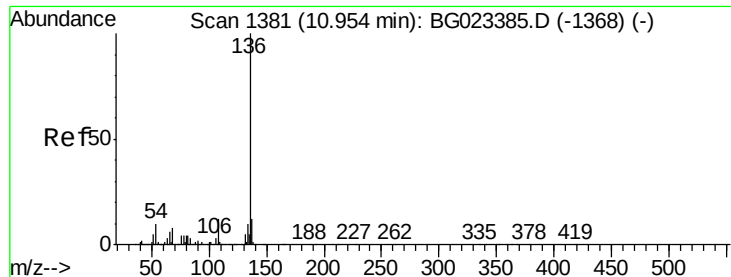
108 27.3 46.5 69.7#

77 113.4 52.3 78.5#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

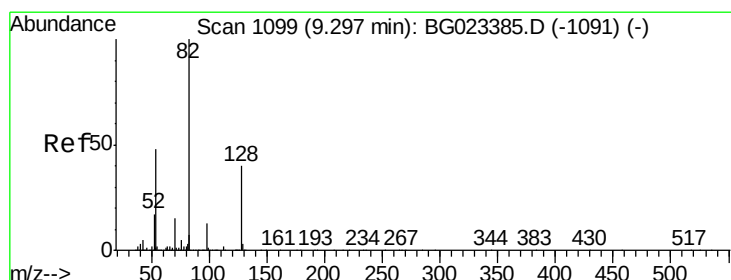
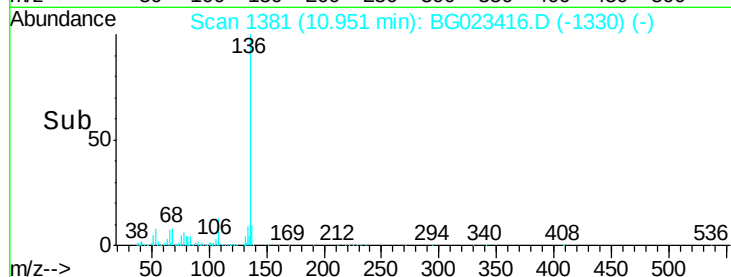
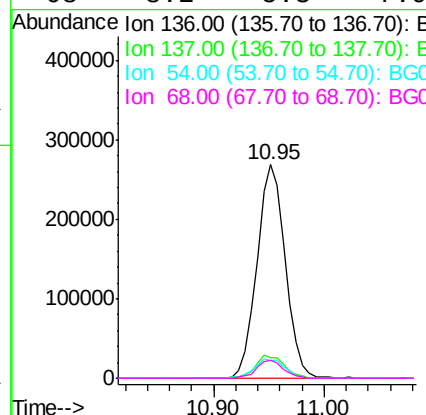
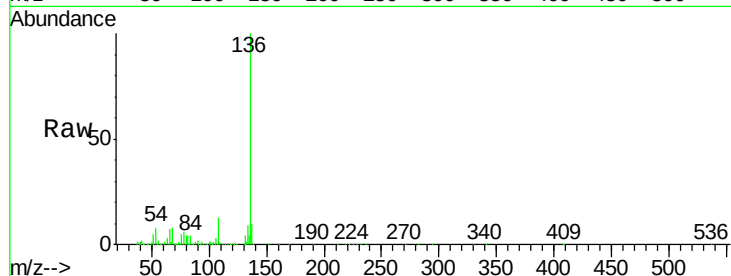




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.95 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: BG023416.D  
Acq: 3 Aug 2016 4:22

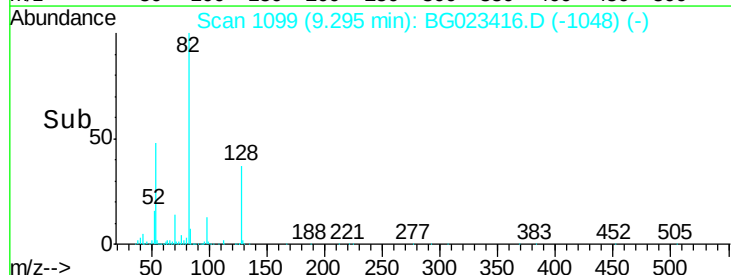
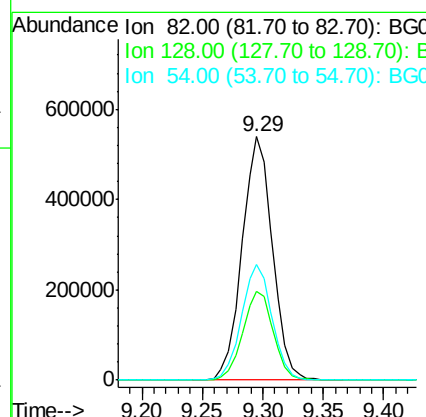
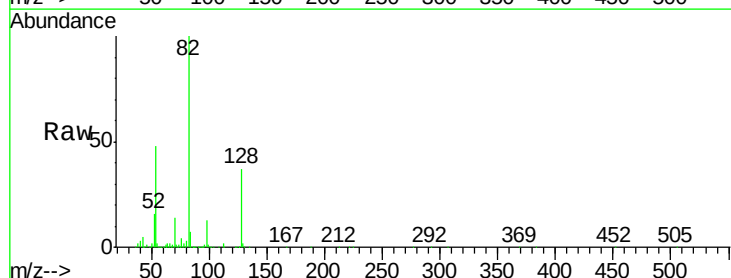
Instrument :  
BNA\_G  
ClientSampleId :  
SB-66-10.0-11.0

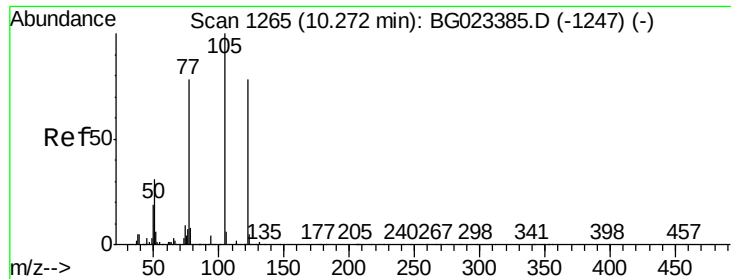
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 483012 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 9.5   | 9.6   | 14.4#  |
| 54       | 8.4   | 7.3   | 10.9   |
| 68       | 8.2   | 5.3   | 7.9#   |



#23  
Nitrobenzene-d5  
Concen: 97.19 ng  
RT: 9.29 min Scan# 1099  
Delta R.T. -0.00 min  
Lab File: BG023416.D  
Acq: 3 Aug 2016 4:22

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 944278 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 36.6  | 24.4  | 36.6   |
| 54       | 47.7  | 41.4  | 62.0   |

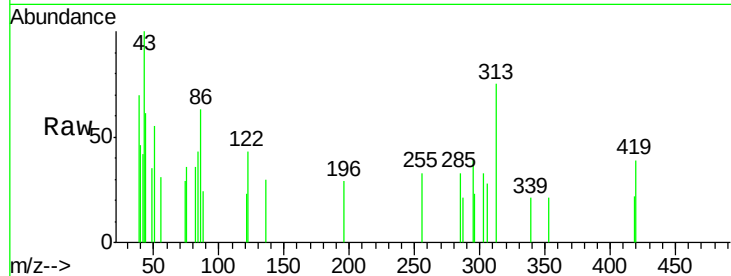




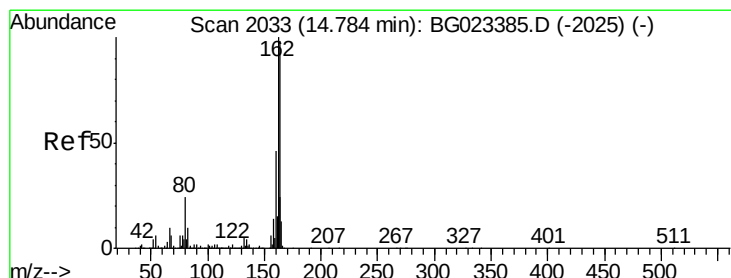
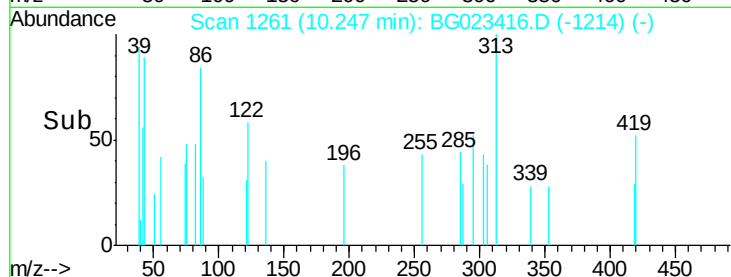
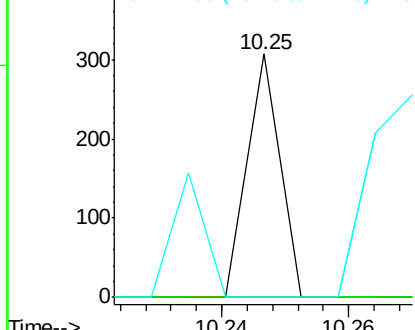
#32  
Benzoic acid  
Concen: 6.46 ng  
RT: 10.25 min Scan# 1261  
Delta R.T. -0.03 min  
Lab File: BG023416.D  
Acq: 3 Aug 2016 4:22

Instrument :  
BNA\_G  
ClientSampleId :  
SB-66-10.0-11.0

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 117.2 | 157.2# |
| 77      | 0.0   | 109.2 | 149.2# |

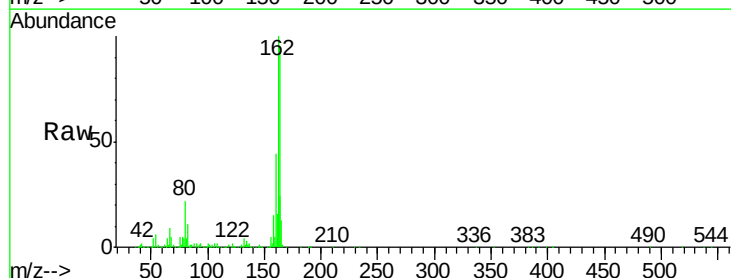


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BGC

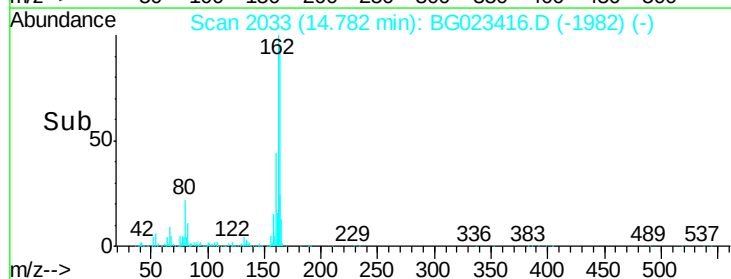
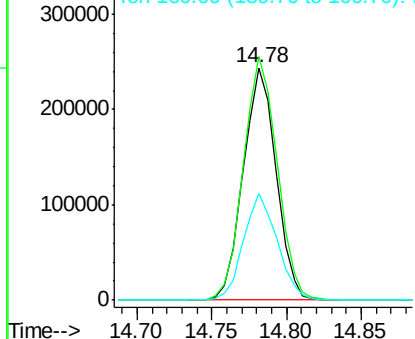


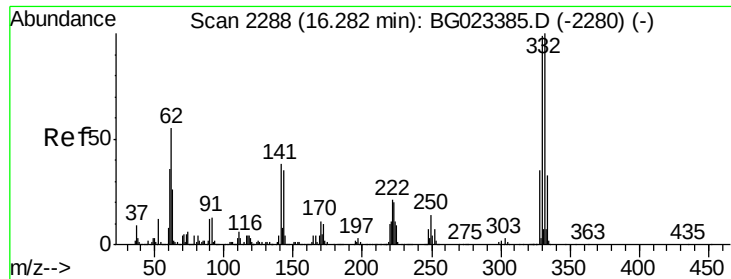
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.78 min Scan# 2033  
Delta R.T. -0.00 min  
Lab File: BG023416.D  
Acq: 3 Aug 2016 4:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.7 | 87.7  | 131.5 |
| 160     | 45.9  | 37.2  | 55.8  |



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

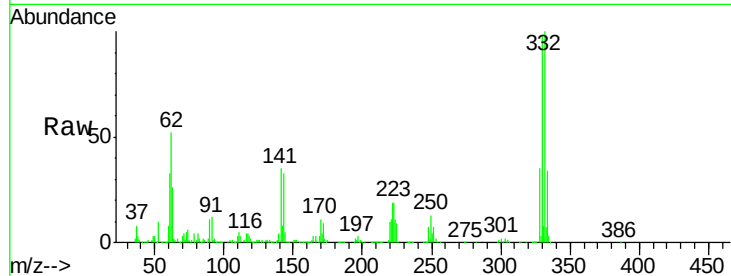




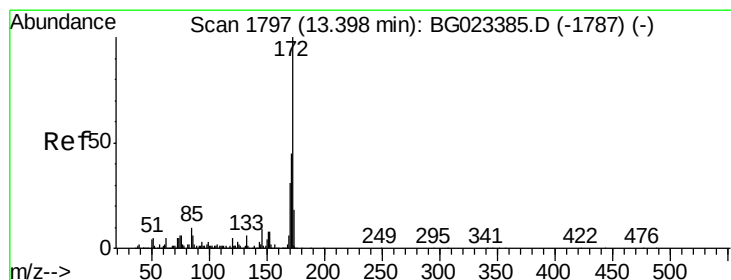
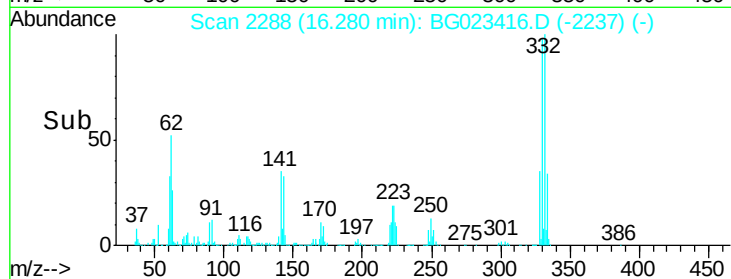
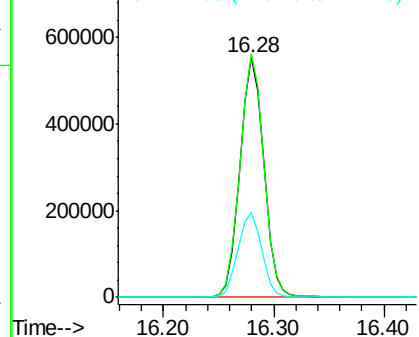
#41  
 2,4,6-Tribromophenol  
 Concen: 156.63 ng  
 RT: 16.28 min Scan# 2288  
 Delta R.T. -0.00 min  
 Lab File: BG023416.D  
 Acq: 3 Aug 2016 4:22

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-66-10.0-11.0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 101.0 | 77.4  | 116.2 |
| 141     | 35.4  | 31.7  | 47.5  |

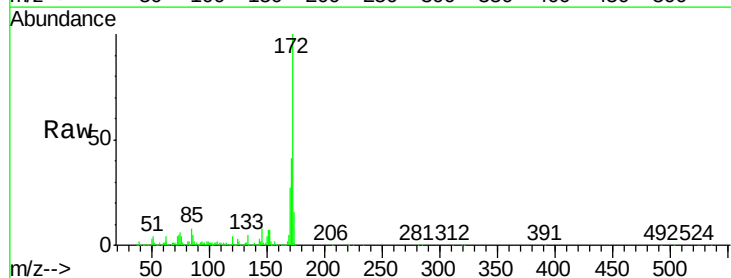


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

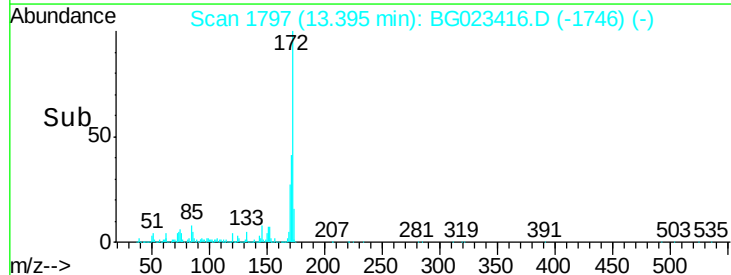
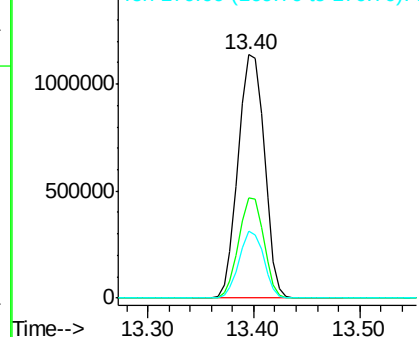


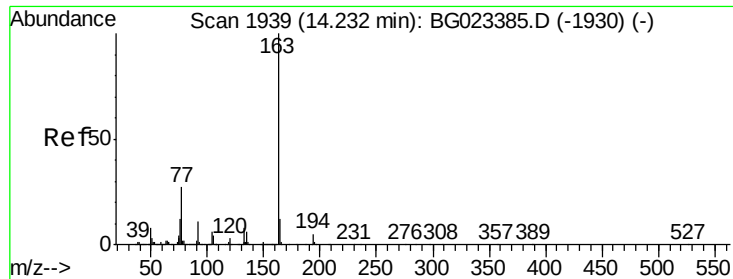
#44  
 2-Fluorobiphenyl  
 Concen: 88.92 ng  
 RT: 13.40 min Scan# 1797  
 Delta R.T. -0.00 min  
 Lab File: BG023416.D  
 Acq: 3 Aug 2016 4:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 41.2  | 31.6  | 47.4  |
| 170     | 27.3  | 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: 13.62 ng

RT: 14.22 min Scan# 1938

Delta R.T. -0.01 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

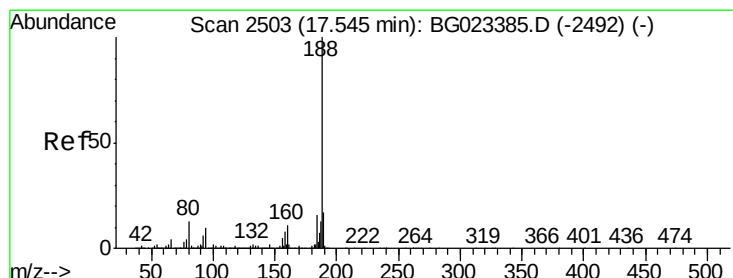
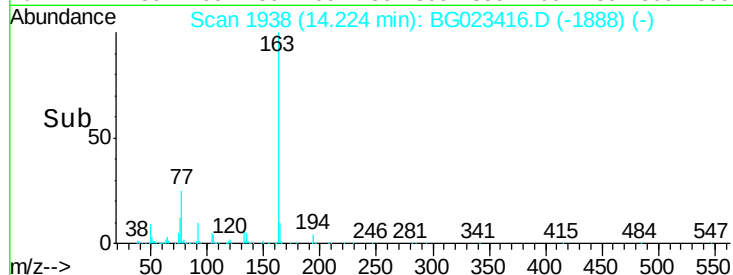
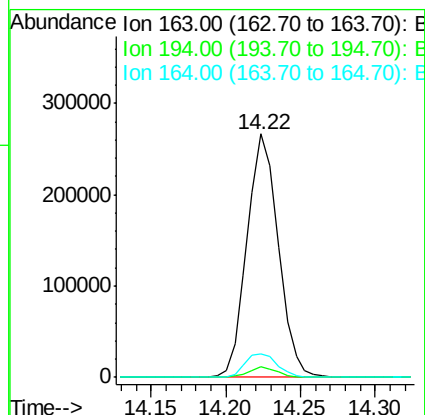
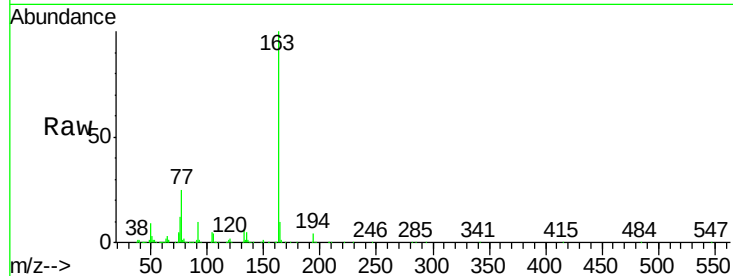
Instrument :

BNA\_G

ClientSampleId :

SB-66-10.0-11.0

|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 163 | Resp: | 387325 |
| Ion Ratio |     | Lower | Upper  |
| 163       | 100 |       |        |
| 194       | 4.2 | 3.6   | 5.4    |
| 164       | 9.7 | 8.1   | 12.1   |



#63

Phenanthrene-d10

Concen: 20.00 ng

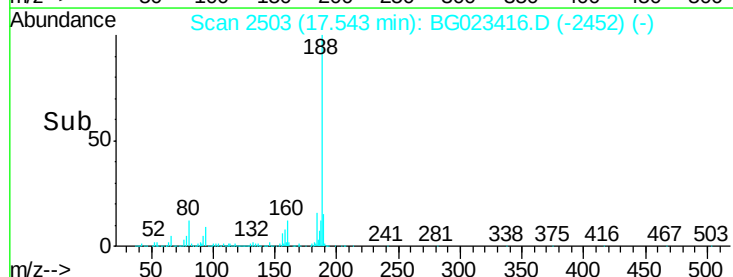
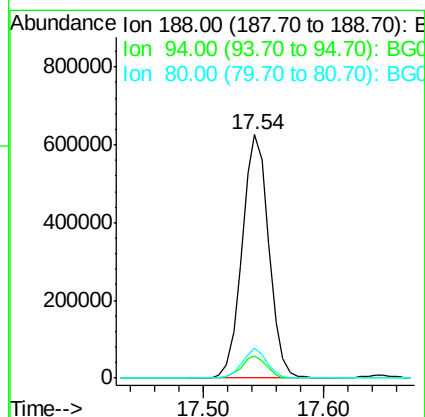
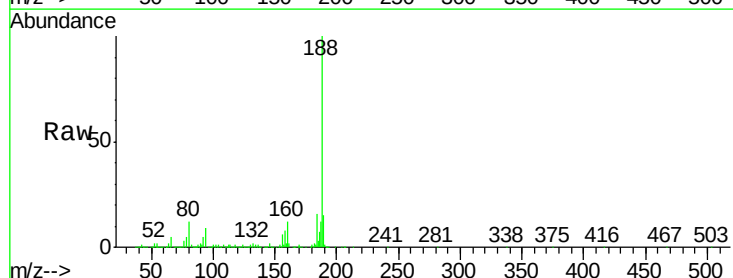
RT: 17.54 min Scan# 2503

Delta R.T. -0.00 min

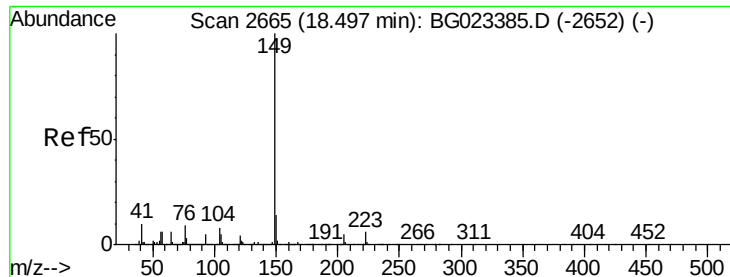
Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 188  | Resp: | 962382 |
| Ion Ratio |      | Lower | Upper  |
| 188       | 100  |       |        |
| 94        | 9.0  | 5.2   | 7.8#   |
| 80        | 12.1 | 7.2   | 10.8#  |







#73

Di-n-butylphthalate

Concen: Below Cal

RT: 18.49 min Scan# 2665

Delta R.T. -0.00 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

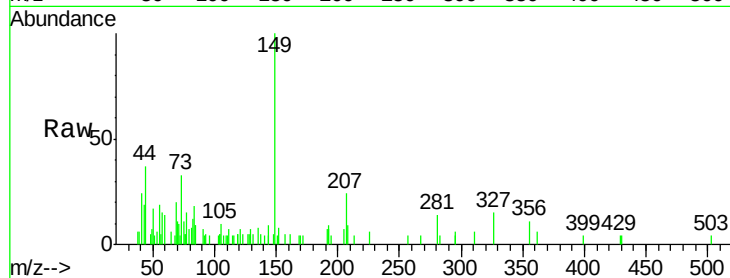
Instrument :

BNA\_G

ClientSampleId :

SB-66-10.0-11.0

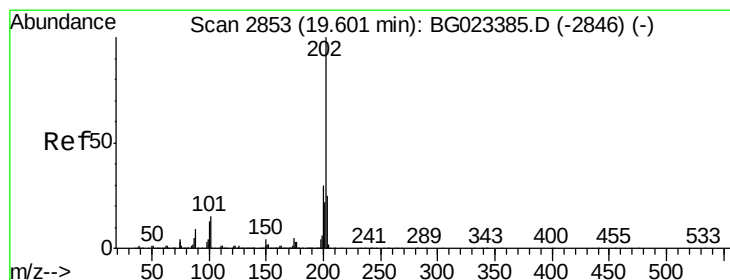
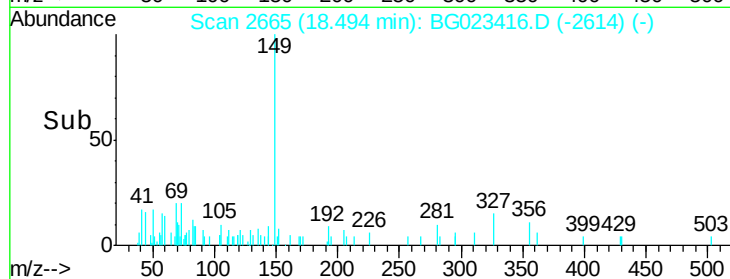
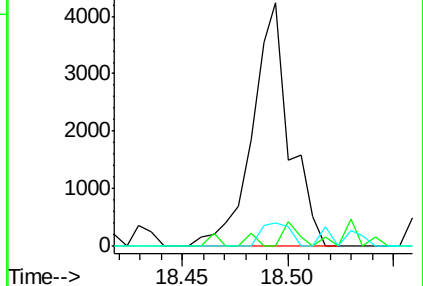
|           |     |       |       |
|-----------|-----|-------|-------|
| Tgt Ion:  | 149 | Resp: | 5187  |
| Ion Ratio |     | Lower | Upper |
| 149       | 100 |       |       |
| 150       | 0.0 | 9.1   | 13.7# |
| 104       | 9.7 | 6.9   | 10.3  |



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

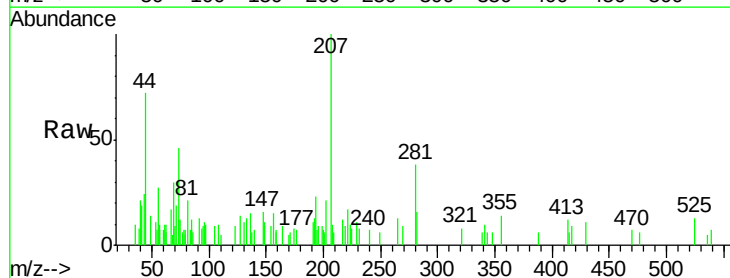
RT: 19.60 min Scan# 2853

Delta R.T. -0.00 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

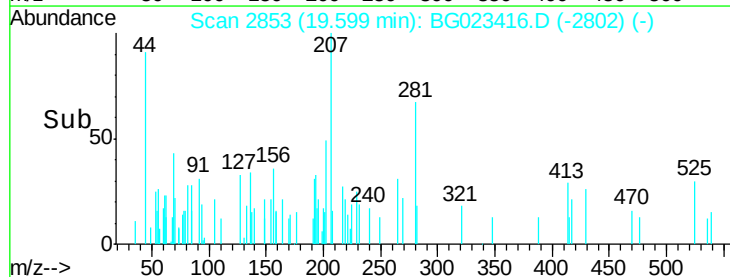
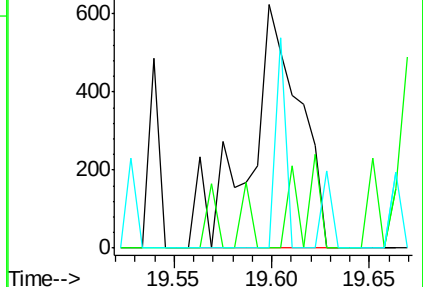
|           |     |       |       |
|-----------|-----|-------|-------|
| Tgt Ion:  | 202 | Resp: | 1125  |
| Ion Ratio |     | Lower | Upper |
| 202       | 100 |       |       |
| 101       | 0.0 | 0.0   | 27.4  |
| 203       | 0.0 | 1.7   | 41.7# |

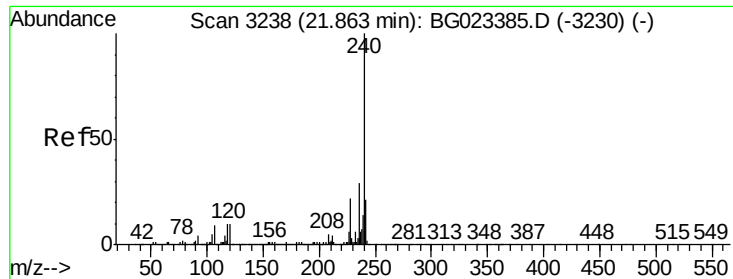


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.85 min Scan# 3237

Delta R.T. -0.01 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

Instrument :

BNA\_G

ClientSampleId :

SB-66-10.0-11.0

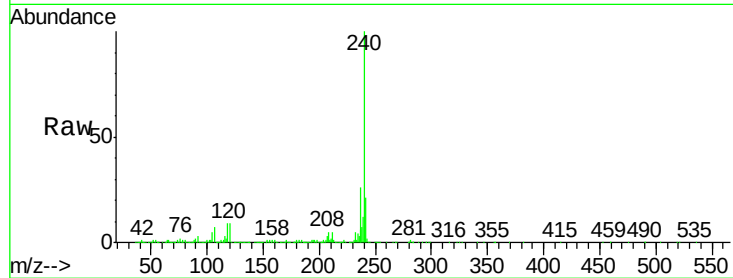
Tgt Ion:240 Resp: 854142

Ion Ratio Lower Upper

240 100

120 9.5 4.1 6.1#

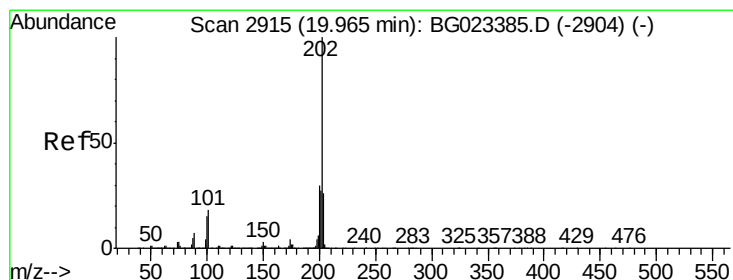
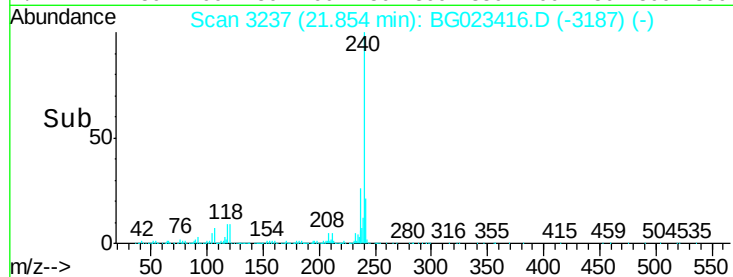
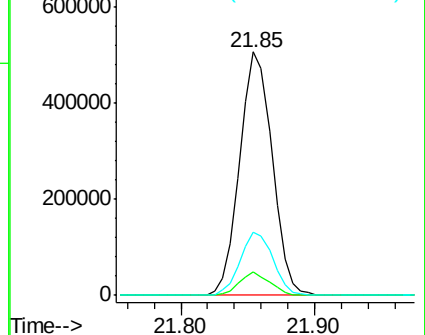
236 25.9 21.1 31.7



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



#77

Pyrene

Concen: Below Cal

RT: 19.97 min Scan# 2916

Delta R.T. 0.00 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

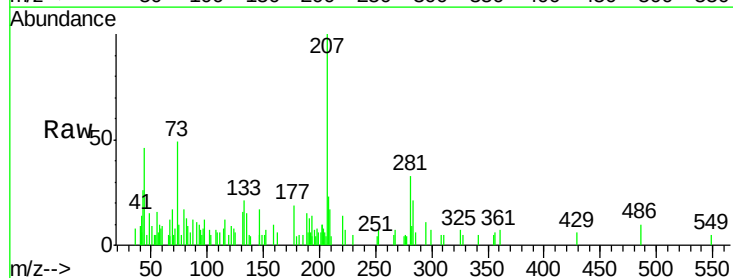
Tgt Ion:202 Resp: 826

Ion Ratio Lower Upper

202 100

200 0.0 21.2 31.8#

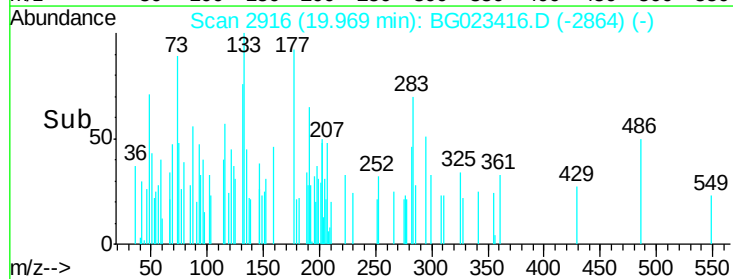
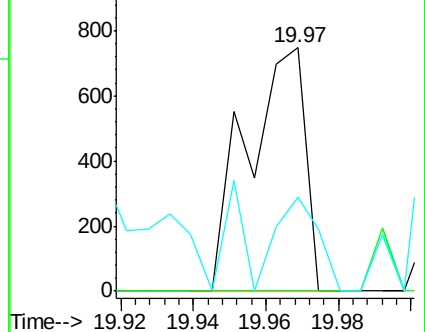
203 38.5 16.8 25.2#

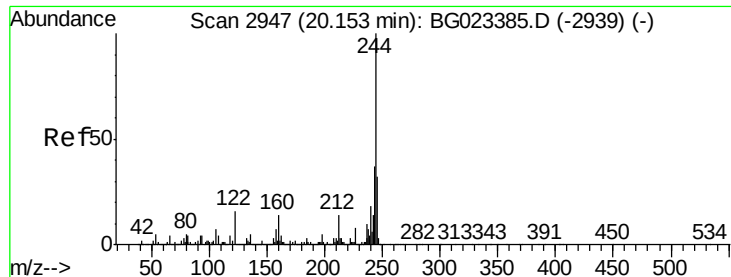


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 95.57 ng

RT: 20.15 min Scan# 2947

Delta R.T. -0.00 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

Instrument :

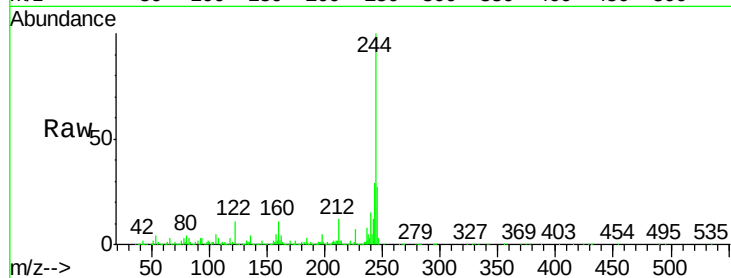
BNA\_G

ClientSampleId :

SB-66-10.0-11.0

Tgt Ion:244 Resp: 2543576

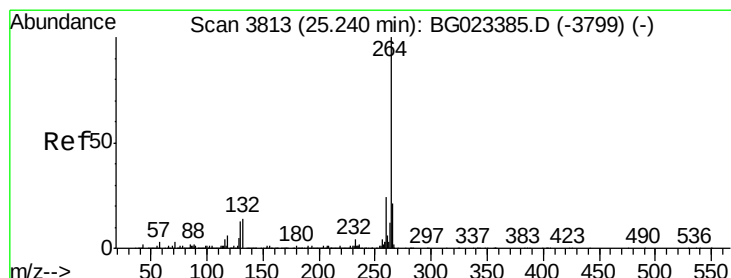
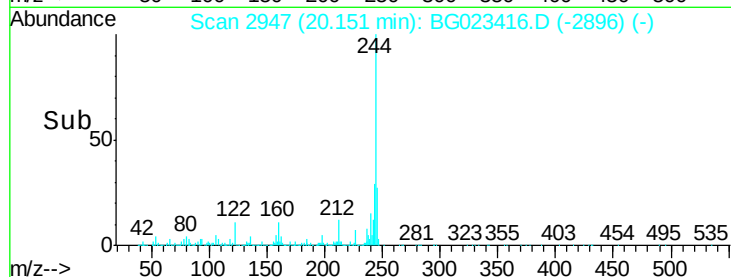
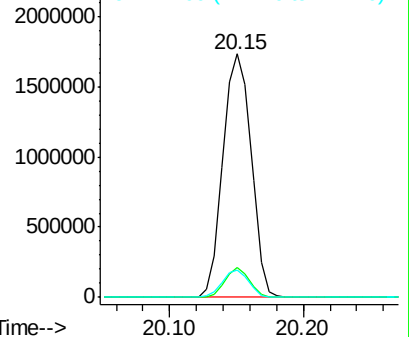
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 12.0  | 10.8  | 16.2  |
| 122 | 11.4  | 8.0   | 12.0  |



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: 25.23 min Scan# 3812

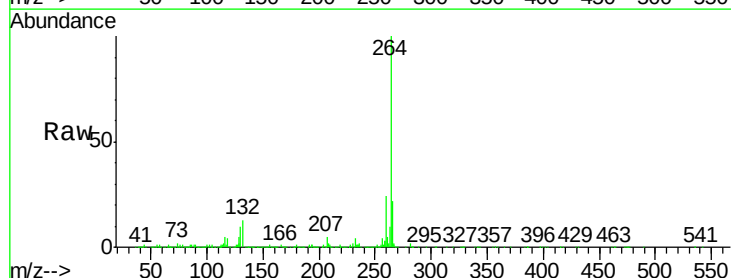
Delta R.T. -0.01 min

Lab File: BG023416.D

Acq: 3 Aug 2016 4:22

Tgt Ion:264 Resp: 885776

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.1  | 18.4  | 27.6  |
| 265 | 22.3  | 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

