

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG082216\  
 Data File : BG023841.D  
 Acq On : 22 Aug 2016 20:00  
 Operator : UM/SJ  
 Sample : H4500-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HSR-WC-65-081616RE

Quant Time: Aug 23 00:56:03 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

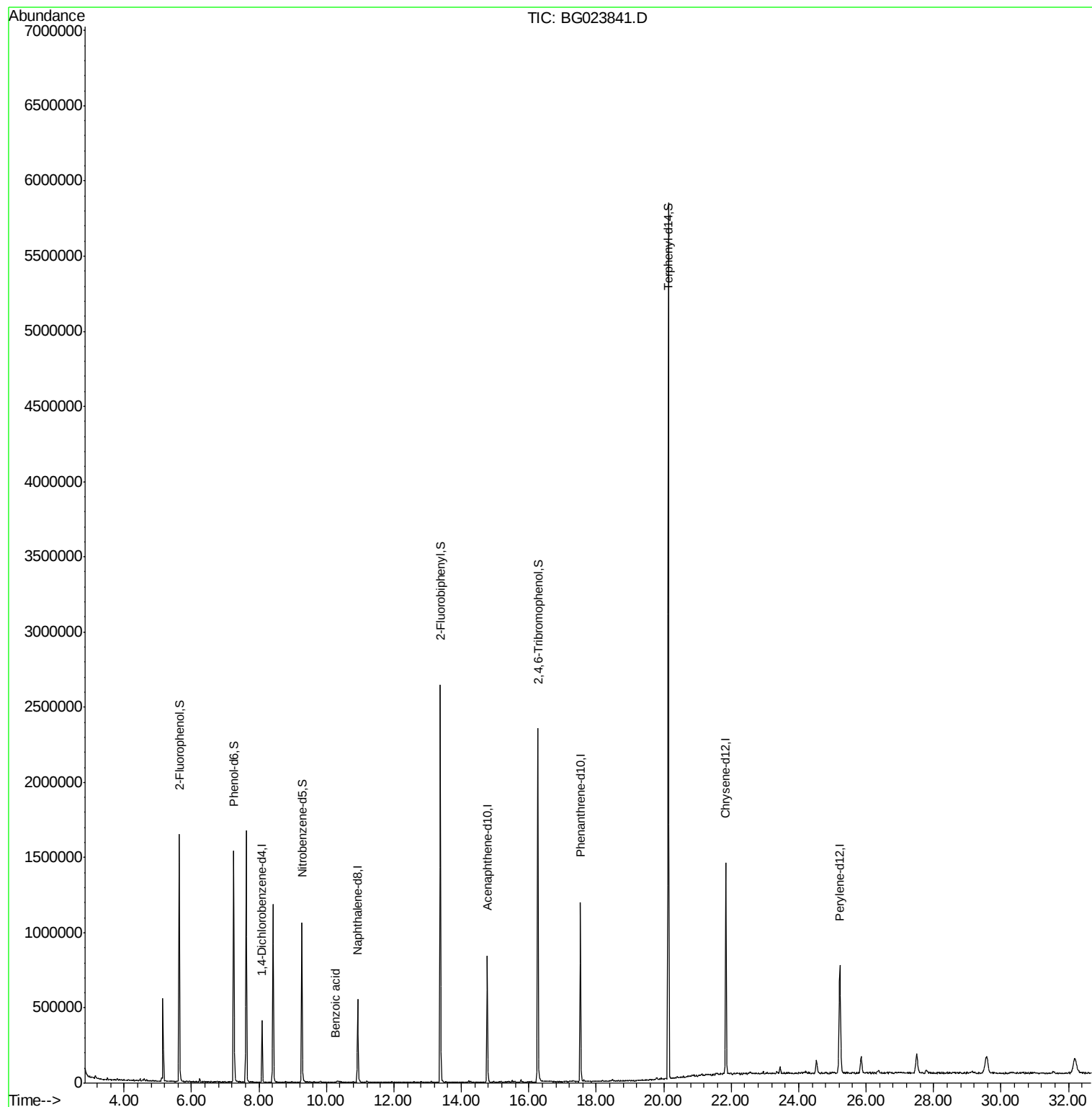
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.09  | 152  | 109042   | 20.00     | ng    | -0.03    |
| 21) Naphthalene-d8          | 10.93 | 136  | 456884   | 20.00     | ng    | -0.03    |
| 38) Acenaphthene-d10        | 14.76 | 164  | 284463   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10        | 17.53 | 188  | 726790   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12            | 21.84 | 240  | 851395   | 20.00     | ng    | -0.02    |
| 86) Perylene-d12            | 25.22 | 264  | 828850   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.63  | 112  | 655543   | 101.20    | ng    | -0.03    |
| 7) Phenol-d6                | 7.25  | 99   | 891896   | 88.40     | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 9.27  | 82   | 691316   | 75.22     | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 16.27 | 330  | 438950   | 105.50    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 1310757  | 77.72     | ng    | -0.02    |
| 78) Terphenyl-d14           | 20.14 | 244  | 2257107  | 82.37     | ng    | -0.01    |
| Target Compounds            |       |      |          |           |       |          |
| 9) Benzaldehyde             | 7.19  | 77   | 107      | Below Cal | #     | 8        |
| 32) Benzoic acid            | 10.26 | 122  | 59       | 6.45 ng   | #     | 1        |
| 73) Di-n-butylphthalate     | 18.48 | 149  | 7197     | Below Cal | #     | 92       |
| 74) Fluoranthene            | 19.60 | 202  | 550      | Below Cal | #     | 60       |
| 77) Pyrene                  | 19.95 | 202  | 666      | Below Cal | #     | 73       |

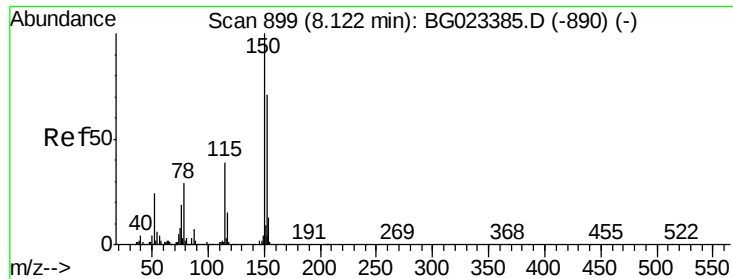
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG082216\  
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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
HSR-WC-65-081616RE

Quant Time: Aug 23 00:56:03 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: 8.09 min Scan# 894

Delta R.T. -0.03 min

Lab File: BG023841.D

Acq: 22 Aug 2016 20:00

Instrument :

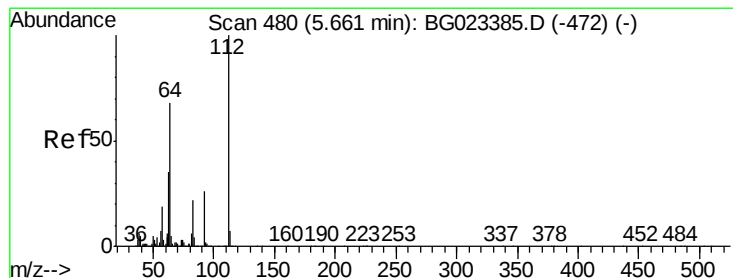
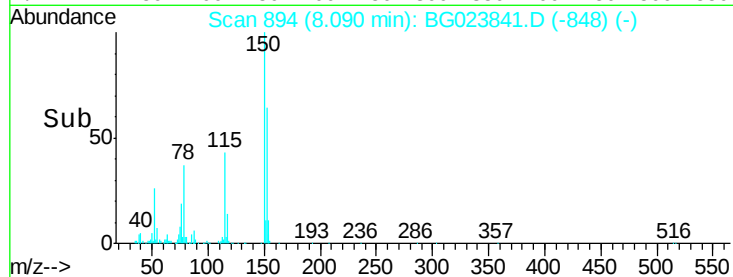
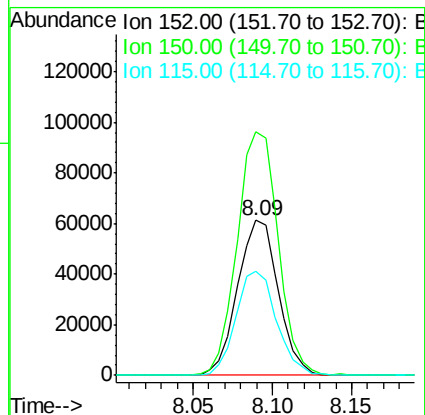
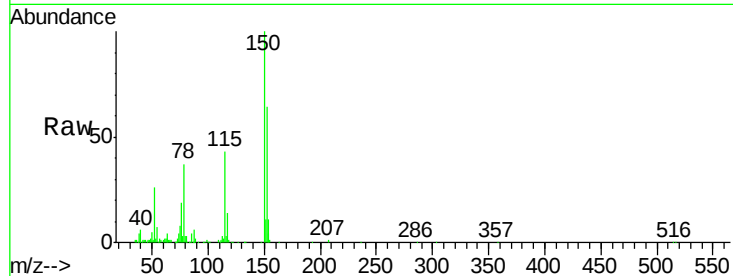
BNA\_G

ClientSampleId :

HSR-WC-65-081616RE

Tgt Ion:152 Resp: 109042

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 157.1 | 144.7 | 217.1 |
| 115 | 67.1  | 64.0  | 96.0  |



#5

2-Fluorophenol

Concen: 101.20 ng

RT: 5.63 min Scan# 476

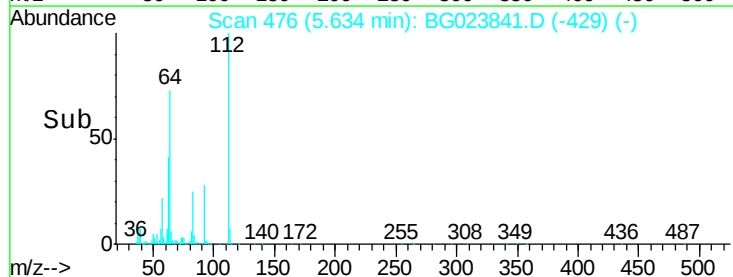
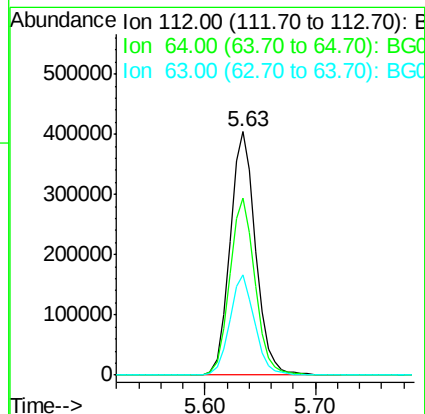
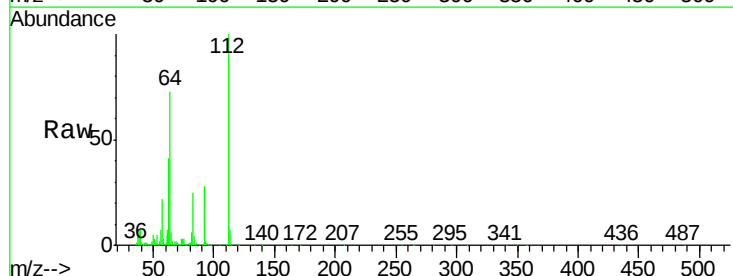
Delta R.T. -0.03 min

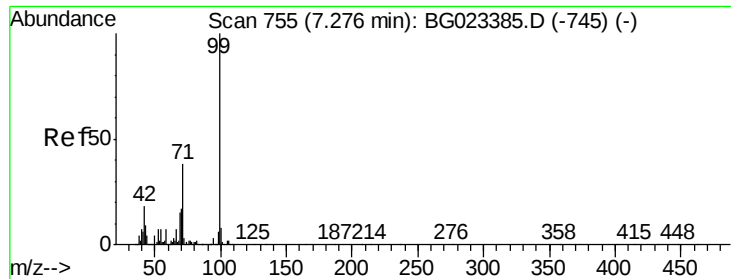
Lab File: BG023841.D

Acq: 22 Aug 2016 20:00

Tgt Ion:112 Resp: 655543

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 64  | 72.9  | 59.0  | 88.4  |
| 63  | 41.1  | 37.8  | 56.8  |





#7

Phenol-d6

Concen: 88.40 ng

RT: 7.25 min Scan# 751

Delta R.T. -0.03 min

Lab File: BG023841.D

Acq: 22 Aug 2016 20:00

Instrument :

BNA\_G

ClientSampleId :

HSR-WC-65-081616RE

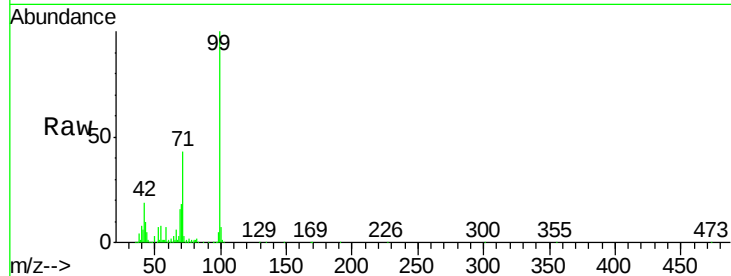
Tgt Ion: 99 Resp: 891896

Ion Ratio Lower Upper

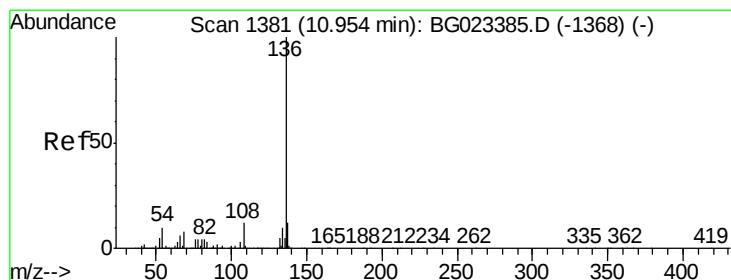
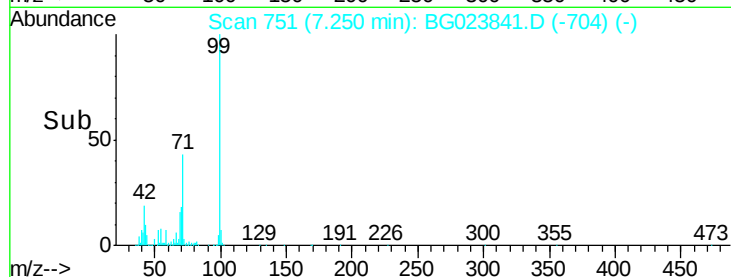
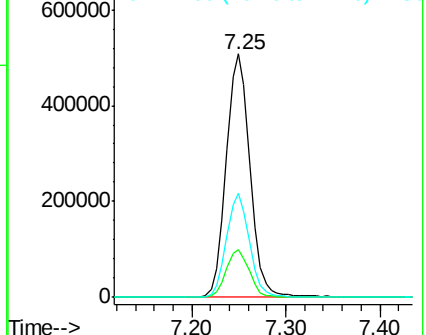
99 100

42 19.4 17.8 26.6

71 42.8 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: 10.93 min Scan# 1377

Delta R.T. -0.03 min

Lab File: BG023841.D

Acq: 22 Aug 2016 20:00

Tgt Ion: 136 Resp: 456884

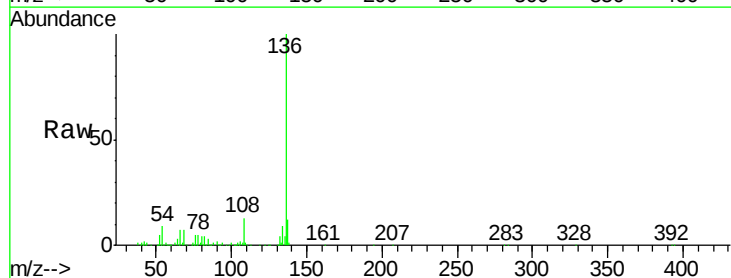
Ion Ratio Lower Upper

136 100

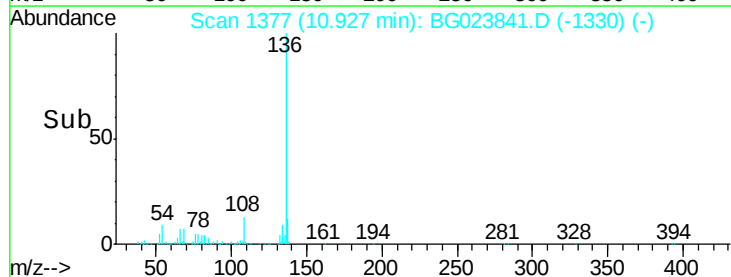
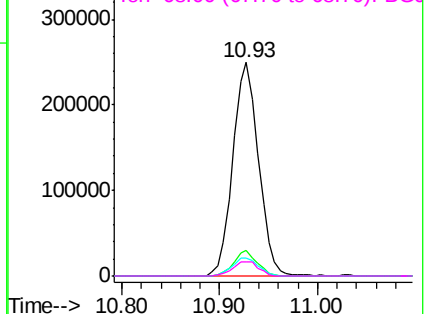
137 11.7 9.6 14.4

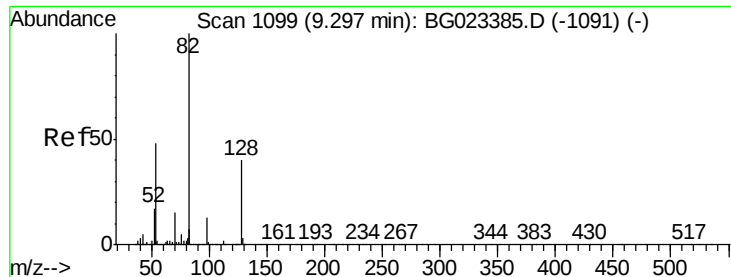
54 8.7 7.3 10.9

68 6.7 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

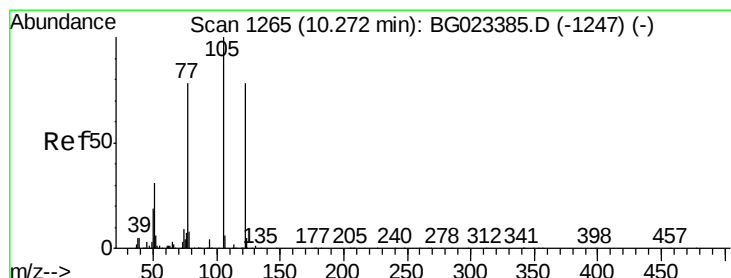
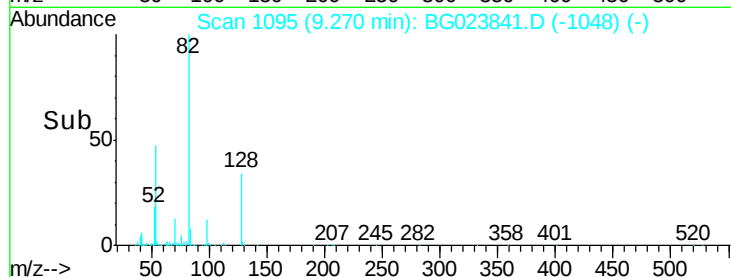
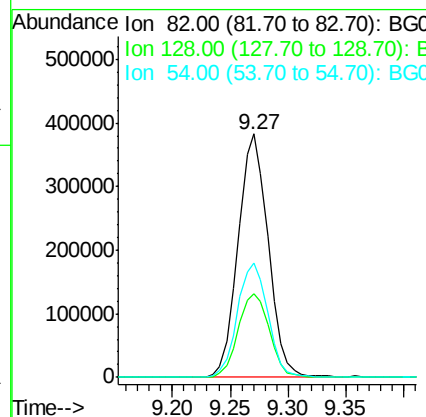
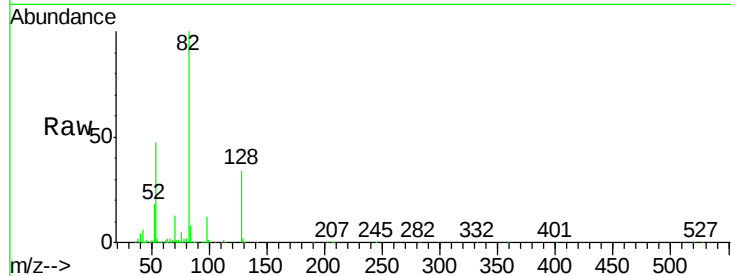




#23  
 Nitrobenzene-d5  
 Concen: 75.22 ng  
 RT: 9.27 min Scan# 1095  
 Delta R.T. -0.03 min  
 Lab File: BG023841.D  
 Acq: 22 Aug 2016 20:00

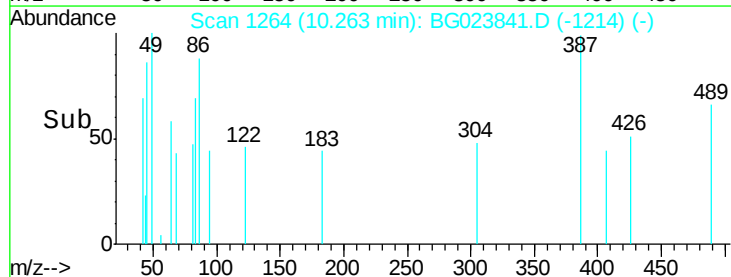
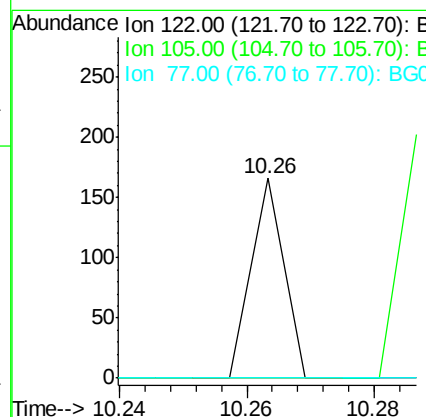
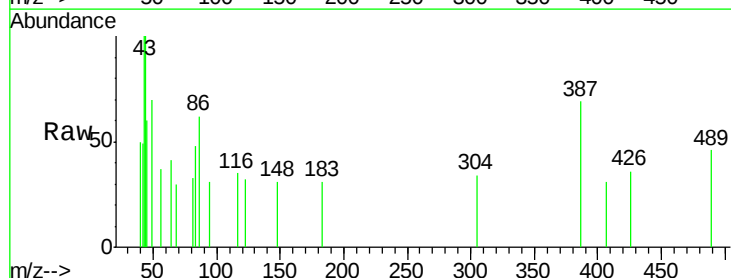
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HSR-WC-65-081616RE

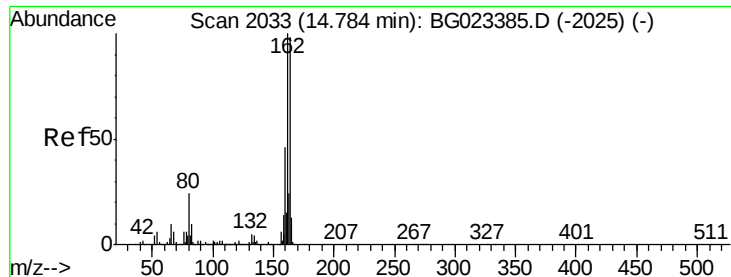
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 34.3  | 24.4  | 36.6  |
| 54      | 47.1  | 41.4  | 62.0  |



#32  
 Benzoic acid  
 Concen: 6.45 ng  
 RT: 10.26 min Scan# 1264  
 Delta R.T. -0.01 min  
 Lab File: BG023841.D  
 Acq: 22 Aug 2016 20:00

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

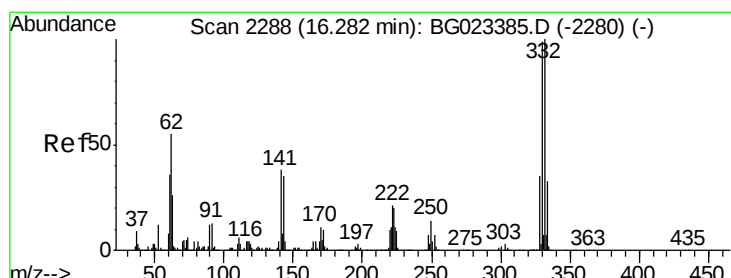
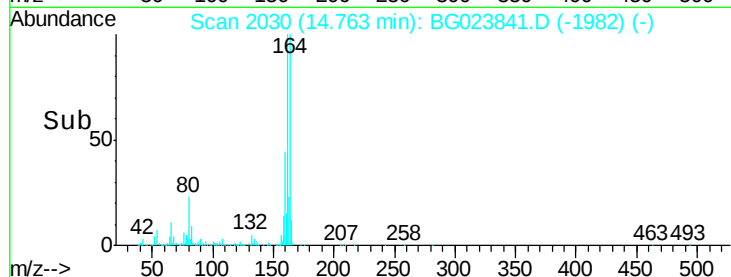
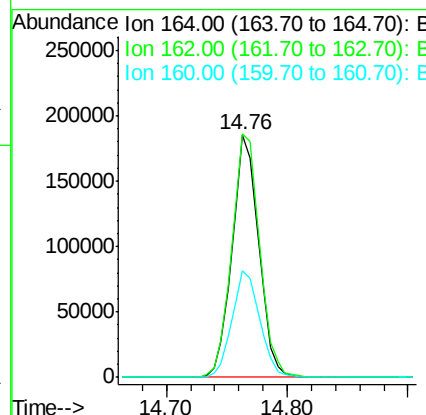
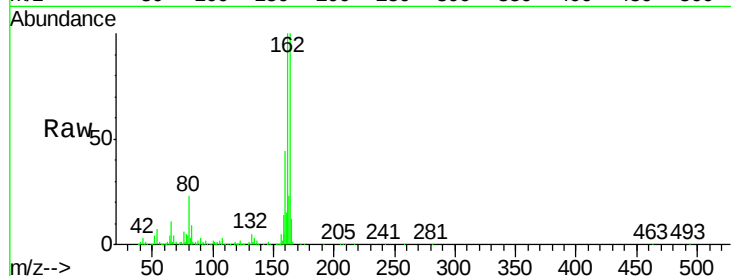




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.76 min Scan# 2030  
 Delta R.T. -0.02 min  
 Lab File: BG023841.D  
 Acq: 22 Aug 2016 20:00

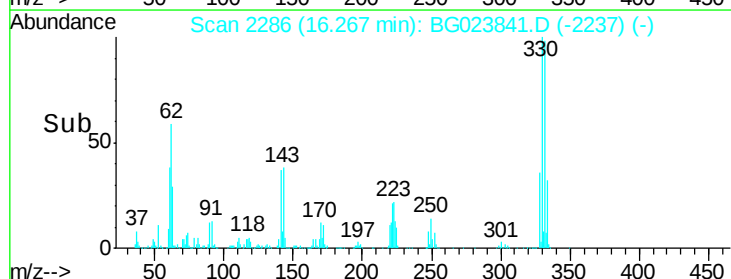
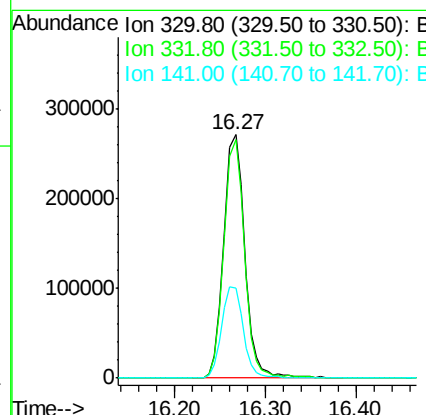
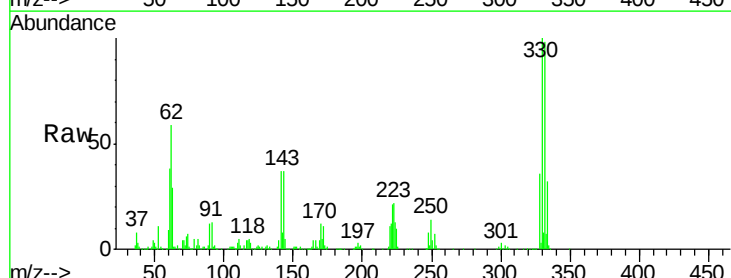
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HSR-WC-65-081616RE

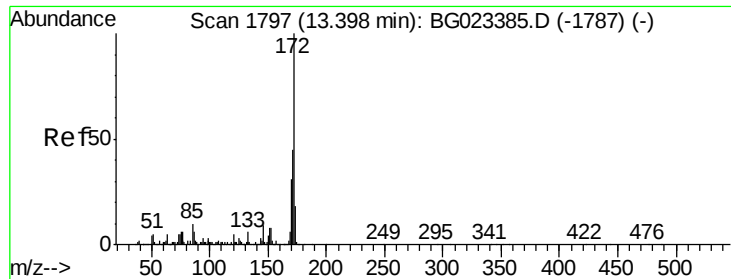
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.4 | 87.7  | 131.5 |
| 160     | 44.0  | 37.2  | 55.8  |



#41  
 2,4,6-Tribromophenol  
 Concen: 105.50 ng  
 RT: 16.27 min Scan# 2286  
 Delta R.T. -0.01 min  
 Lab File: BG023841.D  
 Acq: 22 Aug 2016 20:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 77.4  | 116.2 |
| 141     | 38.2  | 31.7  | 47.5  |

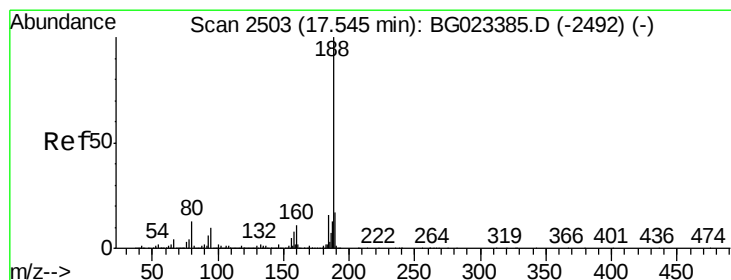
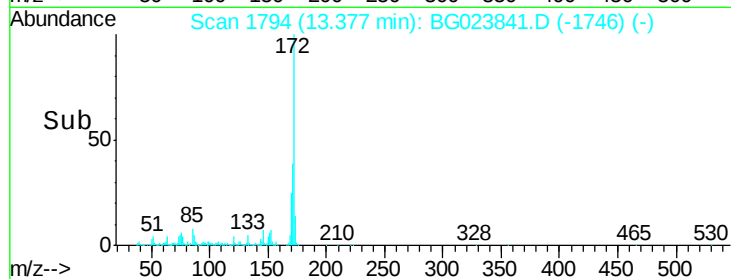
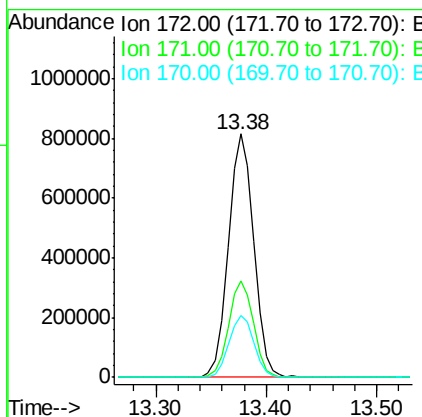
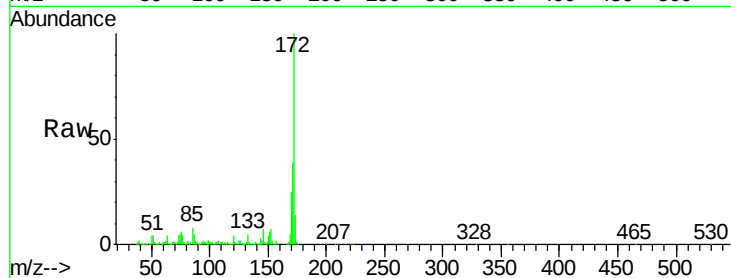




#44  
2-Fluorobiphenyl  
Concen: 77.72 ng  
RT: 13.38 min Scan# 1794  
Delta R.T. -0.02 min  
Lab File: BG023841.D  
Acq: 22 Aug 2016 20:00

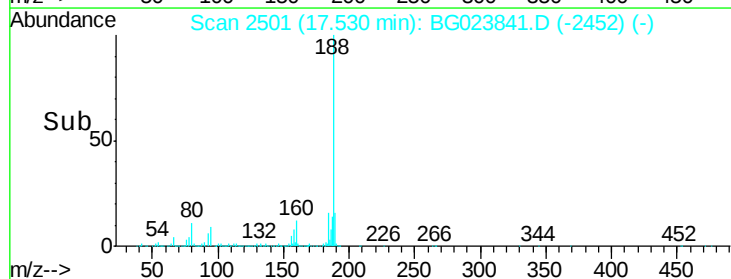
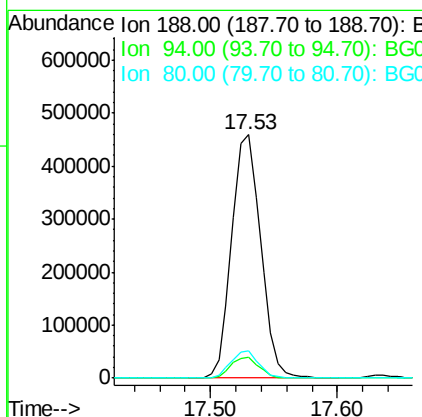
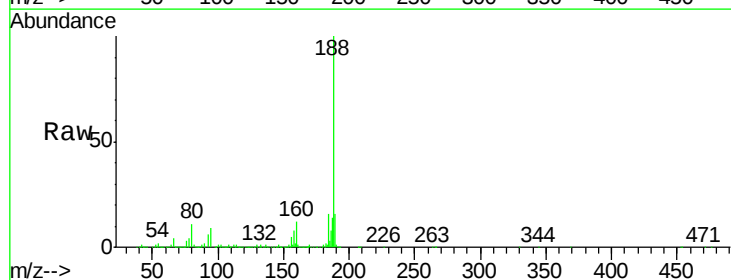
Instrument :  
BNA\_G  
ClientSampleId :  
HSR-WC-65-081616RE

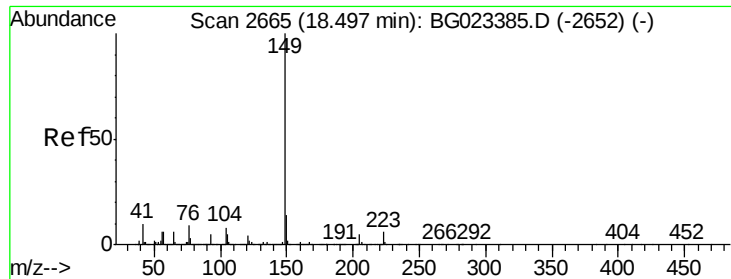
Tgt Ion:172 Resp: 1310757  
Ion Ratio Lower Upper  
172 100  
171 39.5 31.6 47.4  
170 25.2 21.3 31.9



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.53 min Scan# 2501  
Delta R.T. -0.02 min  
Lab File: BG023841.D  
Acq: 22 Aug 2016 20:00

Tgt Ion:188 Resp: 726790  
Ion Ratio Lower Upper  
188 100  
94 8.7 5.2 7.8#  
80 11.4 7.2 10.8#





#73

Di-n-butylphthalate

Concen: Below Cal

RT: 18.48 min Scan# 2662

Delta R.T. -0.02 min

Lab File: BG023841.D

Acq: 22 Aug 2016 20:00

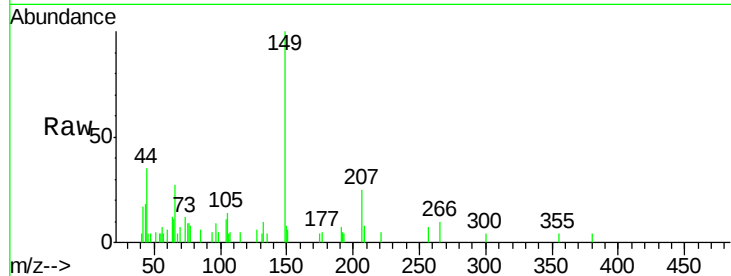
Instrument :

BNA\_G

ClientSampleId :

HSR-WC-65-081616RE

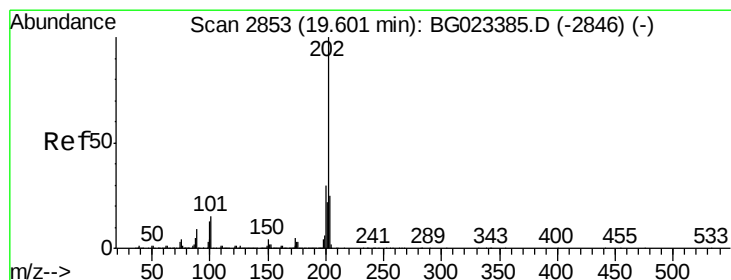
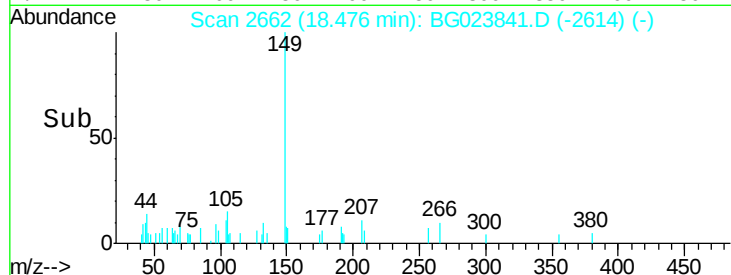
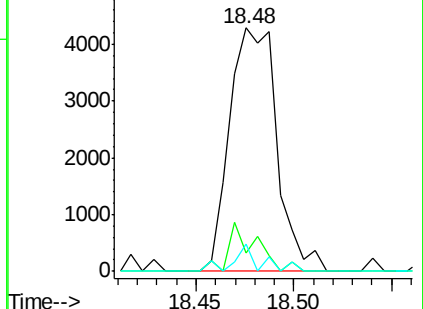
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 7197  |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 150      | 7.6   | 9.1   | 13.7# |
| 104      | 11.0  | 6.9   | 10.3# |



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

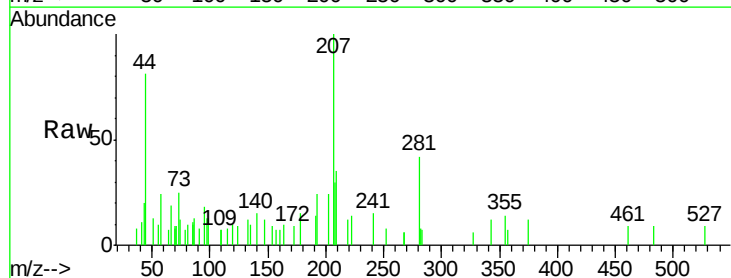
RT: 19.60 min Scan# 2853

Delta R.T. -0.00 min

Lab File: BG023841.D

Acq: 22 Aug 2016 20:00

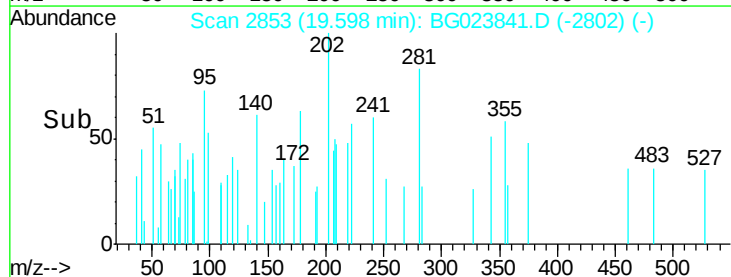
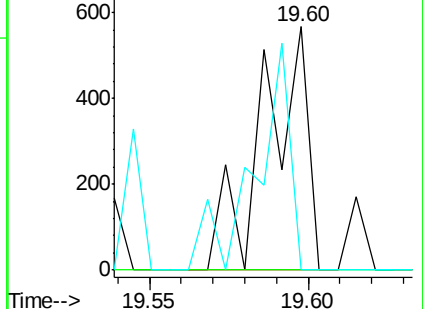
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 550   |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 0.0   | 0.0   | 27.4  |
| 203      | 0.0   | 1.7   | 41.7# |

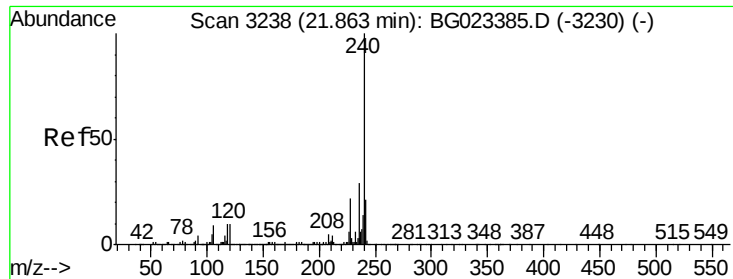


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

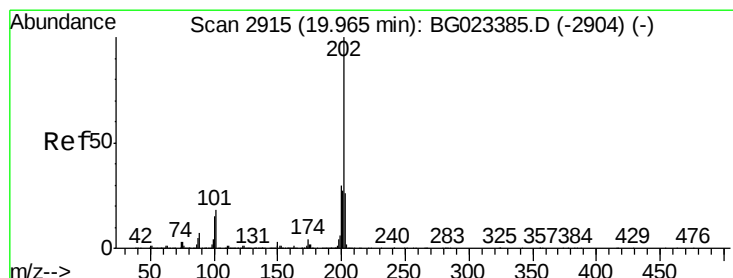
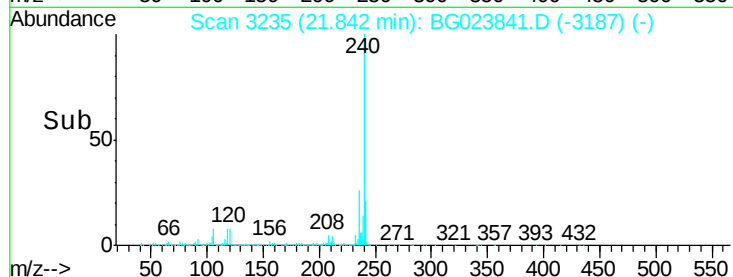
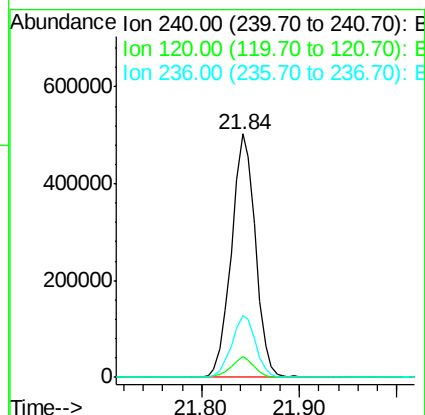
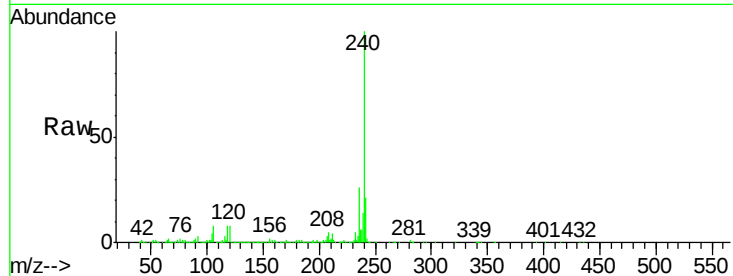




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.84 min Scan# 3235  
Delta R.T. -0.02 min  
Lab File: BG023841.D  
Acq: 22 Aug 2016 20:00

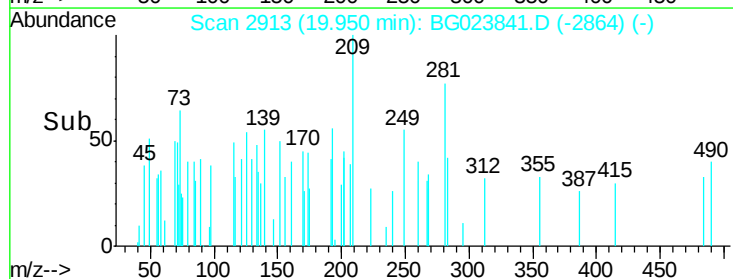
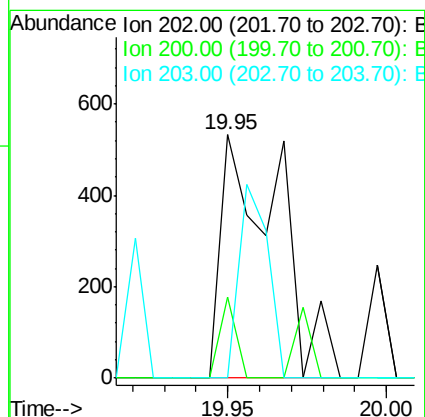
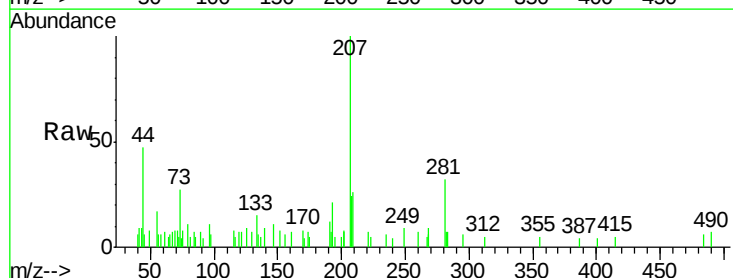
Instrument :  
BNA\_G  
ClientSampleId :  
HSR-WC-65-081616RE

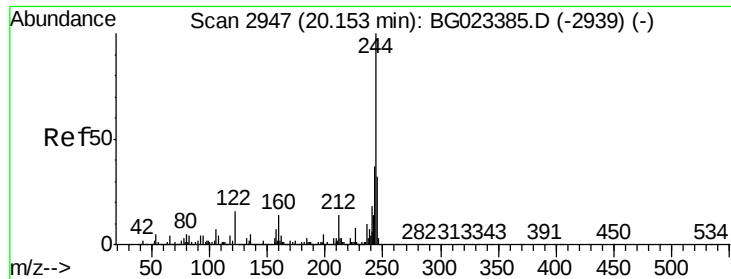
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.3   | 4.1   | 6.1#  |
| 236     | 25.6  | 21.1  | 31.7  |



#77  
Pyrene  
Concen: Below Cal  
RT: 19.95 min Scan# 2913  
Delta R.T. -0.01 min  
Lab File: BG023841.D  
Acq: 22 Aug 2016 20:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 33.2  | 21.2  | 31.8# |
| 203     | 0.0   | 16.8  | 25.2# |





#78

Terphenyl-d14

Concen: 82.37 ng

RT: 20.14 min Scan# 2945

Delta R.T. -0.01 min

Lab File: BG023841.D

Acq: 22 Aug 2016 20:00

Instrument :

BNA\_G

ClientSampleId :

HSR-WC-65-081616RE

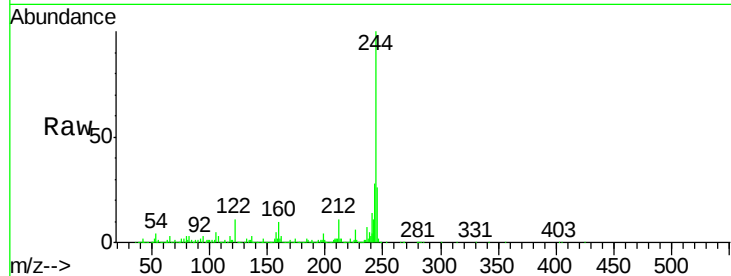
Tgt Ion:244 Resp: 2257107

Ion Ratio Lower Upper

244 100

212 11.1 10.8 16.2

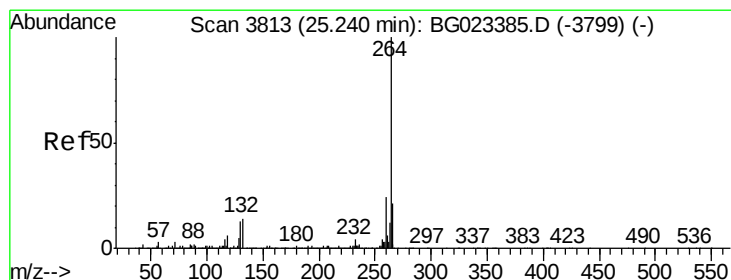
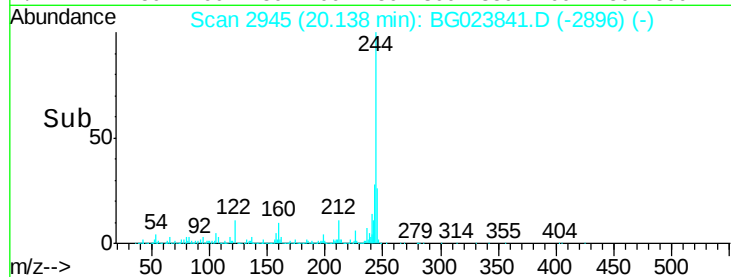
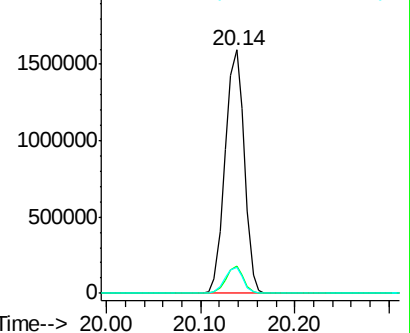
122 10.6 8.0 12.0



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. -0.02 min

Lab File: BG023841.D

Acq: 22 Aug 2016 20:00

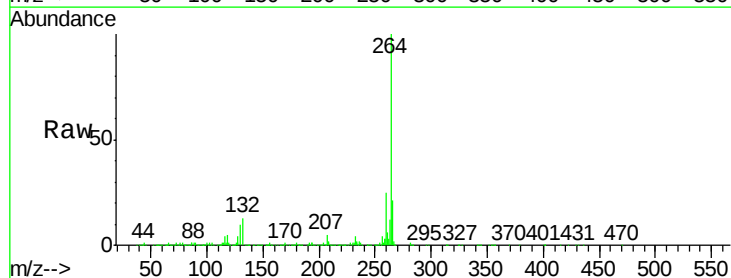
Tgt Ion:264 Resp: 828850

Ion Ratio Lower Upper

264 100

260 25.3 18.4 27.6

265 21.4 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

