

Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\  
 Data File : BG022390.D  
 Acq On : 17 Jun 2016 7:00  
 Operator : UM/SJ  
 Sample : H3569-13  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-05-COMP

Quant Time: Jun 17 07:54:44 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 13 17:40:23 2016  
 Response via : Initial Calibration

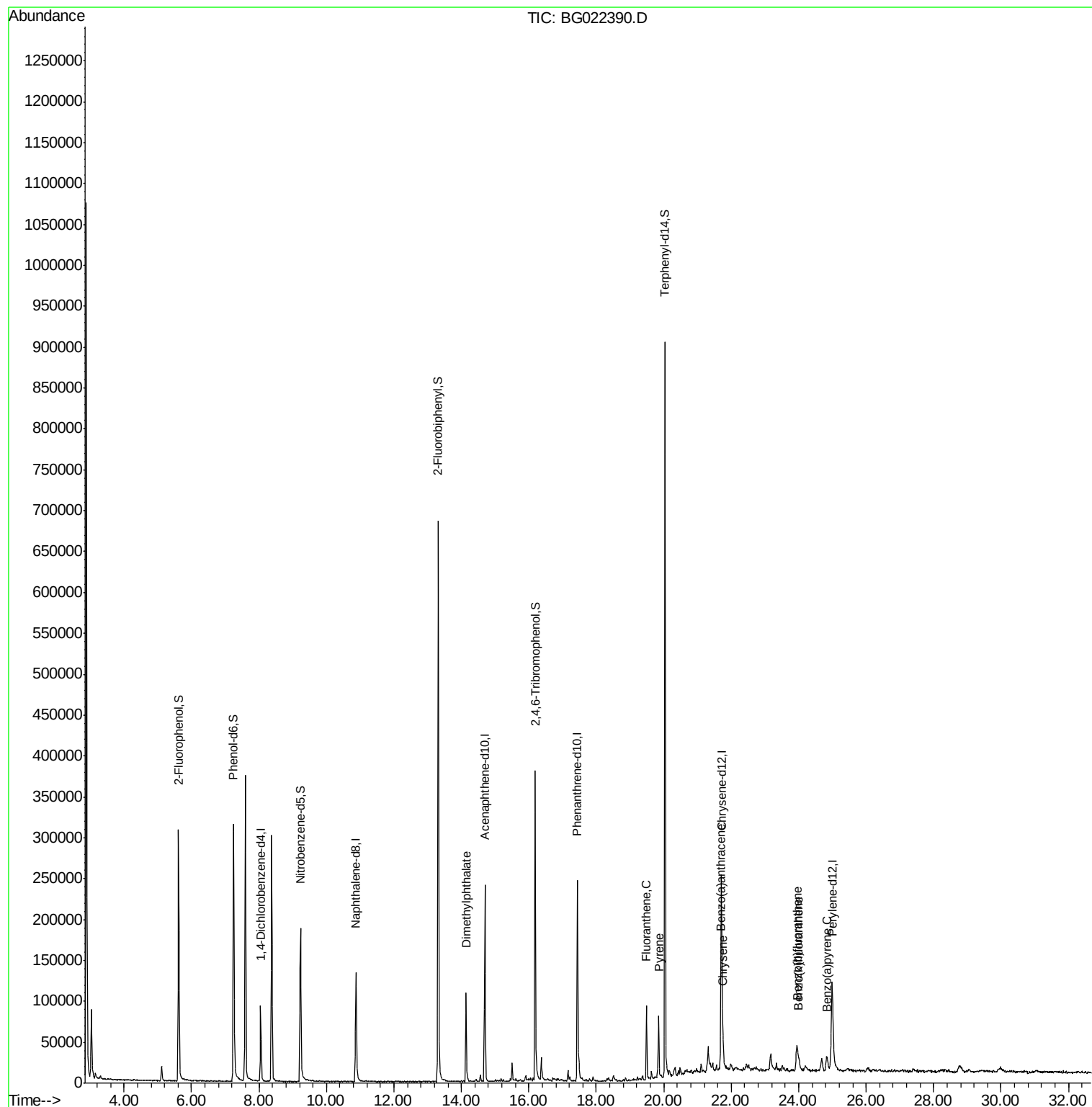
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.05  | 152  | 33877    | 20.00  | ng    | -0.04    |
| 21) Naphthalene-d8          | 10.88 | 136  | 164648   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10        | 14.69 | 164  | 96206    | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 17.44 | 188  | 185062   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 21.71 | 240  | 154772   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 25.00 | 264  | 142081   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.62  | 112  | 207994   | 118.71 | ng    | -0.02    |
| 7) Phenol-d6                | 7.24  | 99   | 298137   | 108.22 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.23  | 82   | 168972   | 71.55  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 16.19 | 330  | 84544    | 77.77  | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 13.31 | 172  | 422466   | 66.92  | ng    | -0.03    |
| 78) Terphenyl-d14           | 20.03 | 244  | 432557   | 66.35  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 14.14 | 163  | 100345   | 12.58  | ng    | 99       |
| 74) Fluoranthene            | 19.49 | 202  | 66206    | 5.73   | ng    | 96       |
| 77) Pyrene                  | 19.85 | 202  | 51519    | 5.35   | ng    | 99       |
| 80) Benzo(a)anthracene      | 21.69 | 228  | 25712    | 2.96   | ng    | 97       |
| 82) Chrysene                | 21.75 | 228  | 25394    | 3.01   | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 23.95 | 252  | 32161m   | 3.88   | ng    |          |
| 88) Benzo(k)fluoranthene    | 23.99 | 252  | 16800m   | 2.06   | ng    |          |
| 89) Benzo(a)pyrene          | 24.84 | 252  | 20327    | 2.57   | ng    | # 93     |

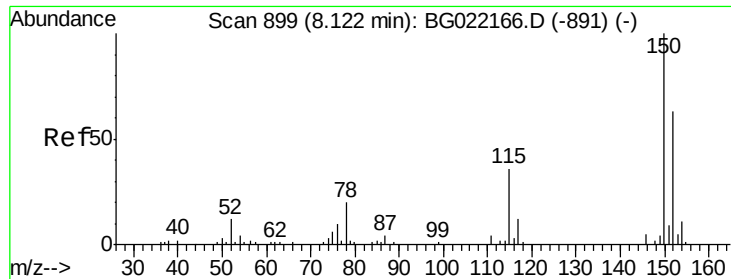
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.05 min Scan# 888

Delta R.T. -0.04 min

Lab File: BG022390.D

Acq: 17 Jun 2016 7:00

Instrument :

BNA\_G

ClientSampleId :

SB-05-COMP

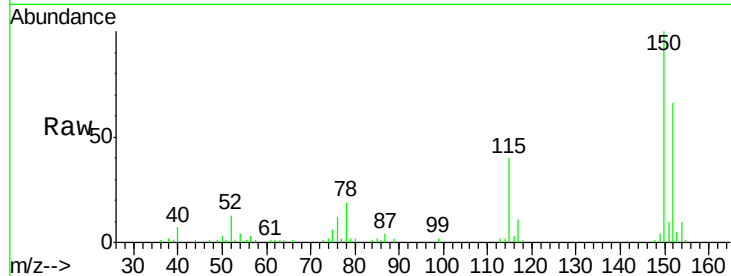
Tot Ion:152 Resp: 33877

Ion Ratio Lower Upper

152 100

150 152.6 130.1 195.1

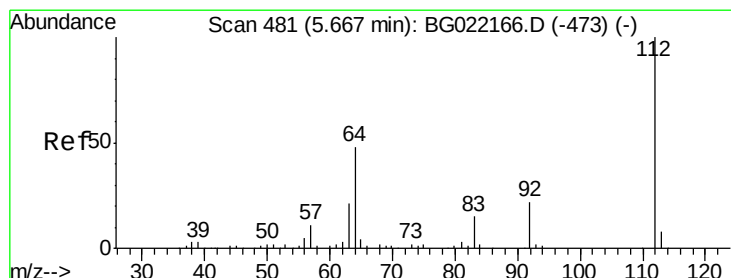
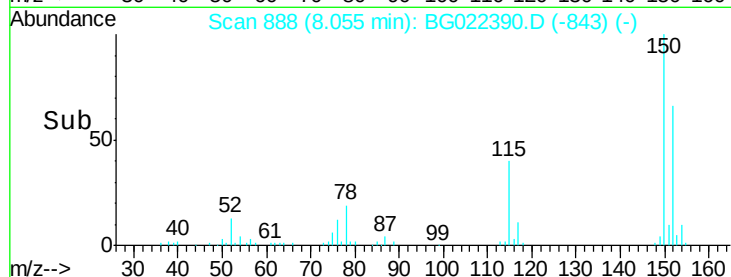
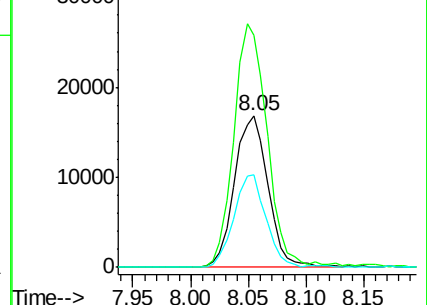
115 60.8 62.2 93.2#



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: 118.71 ng

RT: 5.62 min Scan# 473

Delta R.T. -0.02 min

Lab File: BG022390.D

Acq: 17 Jun 2016 7:00

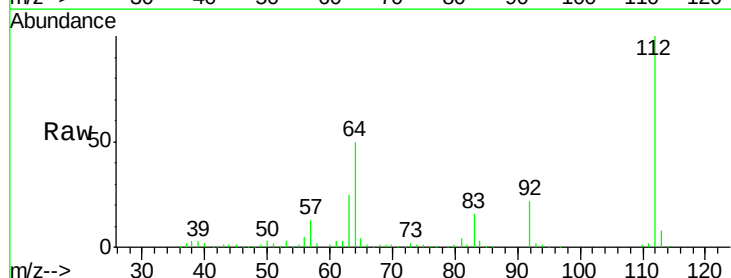
Tgt Ion:112 Resp: 207994

Ion Ratio Lower Upper

112 100

64 50.1 51.1 76.7#

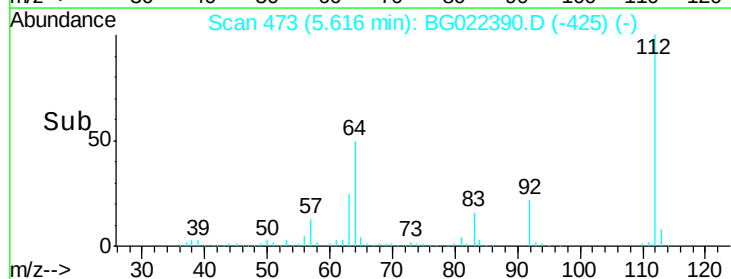
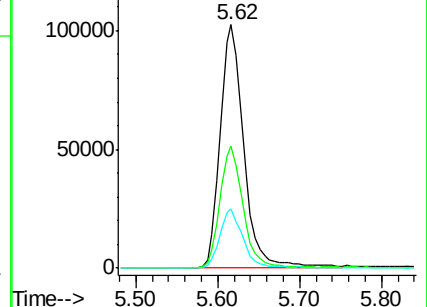
63 24.5 24.6 37.0#

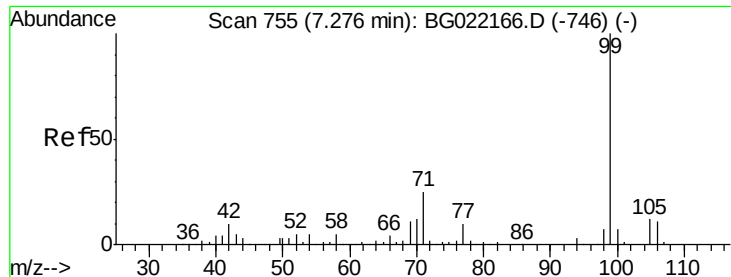


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 108.22 ng

RT: 7.24 min Scan# 750

Delta R.T. -0.01 min

Lab File: BG022390.D

Acq: 17 Jun 2016 7:00

Instrument :

BNA\_G

ClientSampleId :

SB-05-COMP

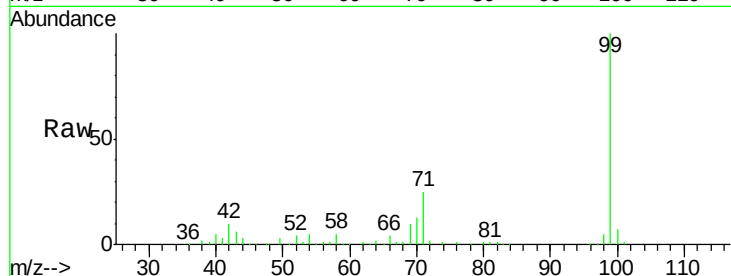
Tot Ion: 99 Resp: 298137

Ion Ratio Lower Upper

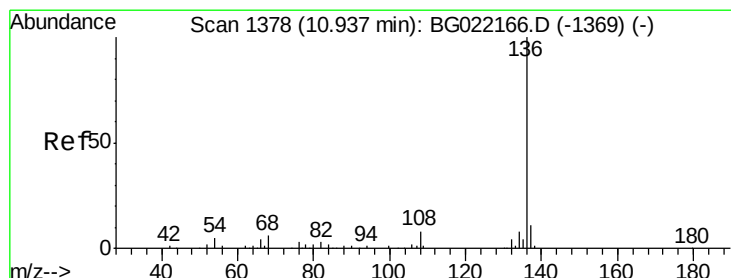
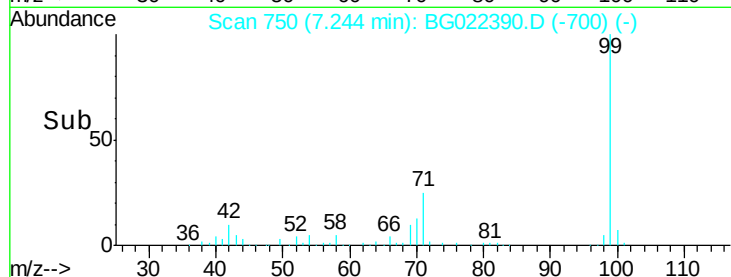
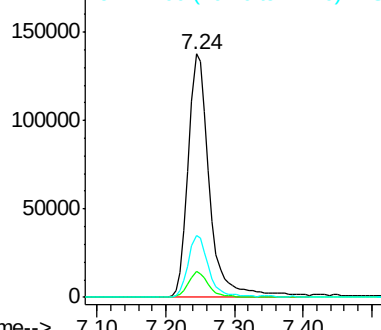
99 100

42 10.4 16.4 24.6#

71 25.4 25.0 37.4



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: 20.00 ng

RT: 10.88 min Scan# 1368

Delta R.T. -0.03 min

Lab File: BG022390.D

Acq: 17 Jun 2016 7:00

Tgt Ion: 136 Resp: 164648

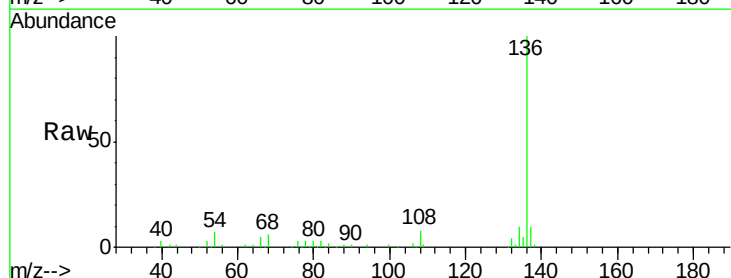
Ion Ratio Lower Upper

136 100

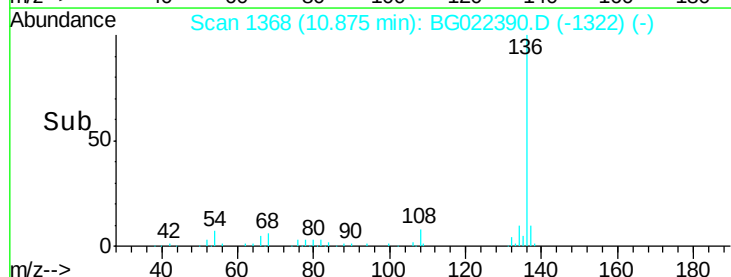
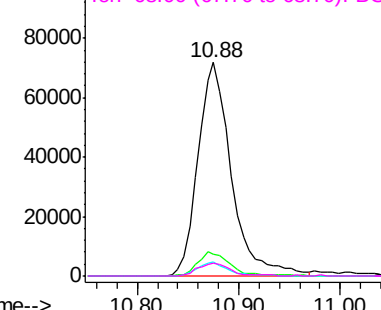
137 10.0 9.0 13.4

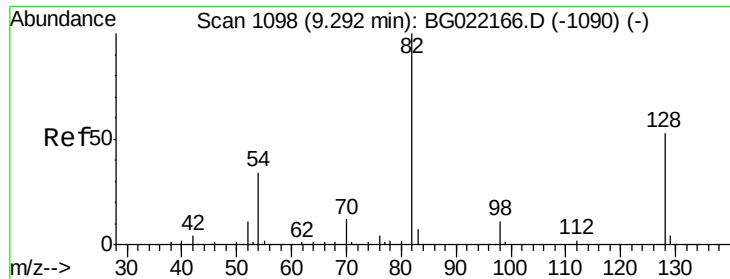
54 6.8 9.6 14.4#

68 5.8 6.4 9.6#



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

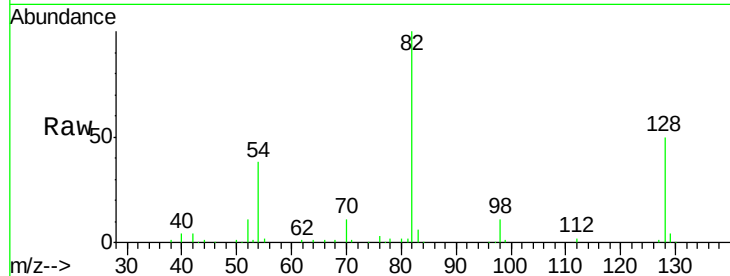




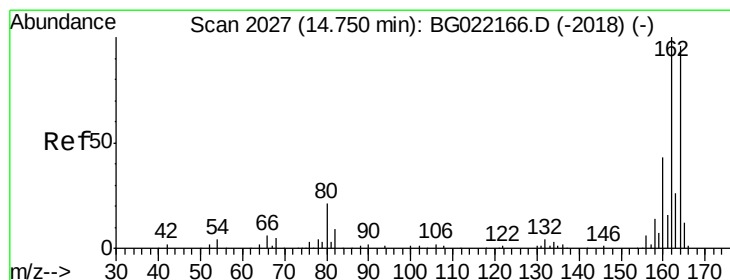
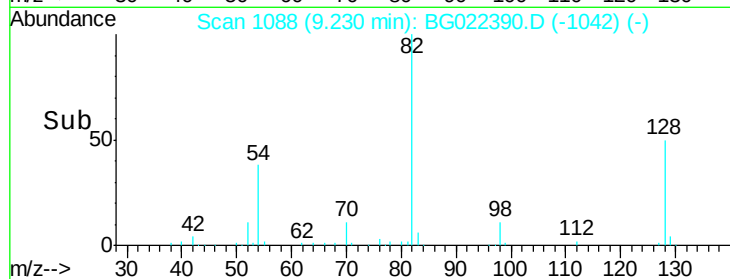
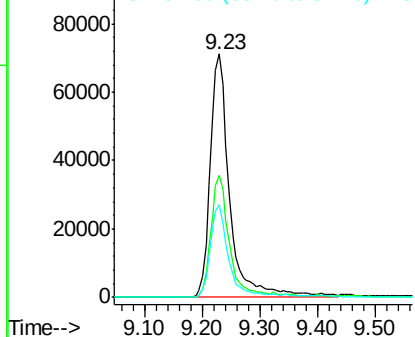
#23  
 Nitrobenzene-d5  
 Concen: 71.55 ng  
 RT: 9.23 min Scan# 1088  
 Delta R.T. -0.03 min  
 Lab File: BG022390.D  
 Acq: 17 Jun 2016 7:00

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-05-COMP

Tot Ion: 82 Resp: 168972  
 Ion Ratio Lower Upper  
 82 100  
 128 49.9 33.4 50.0  
 54 38.0 46.1 69.1#

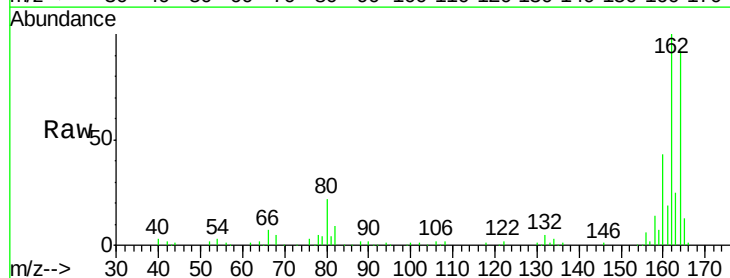


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

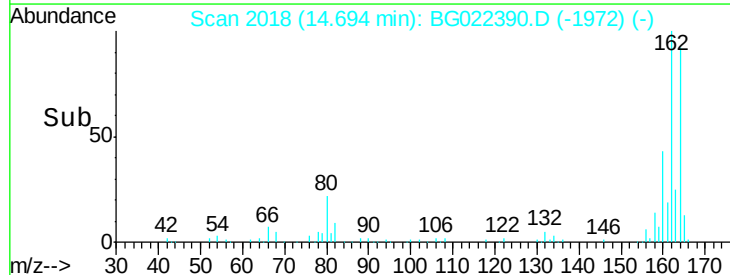
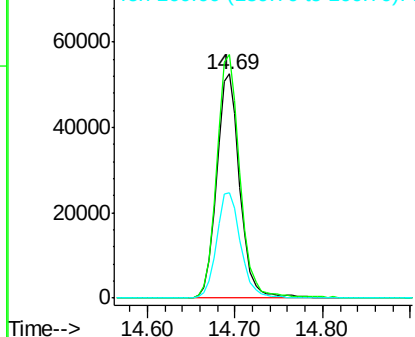


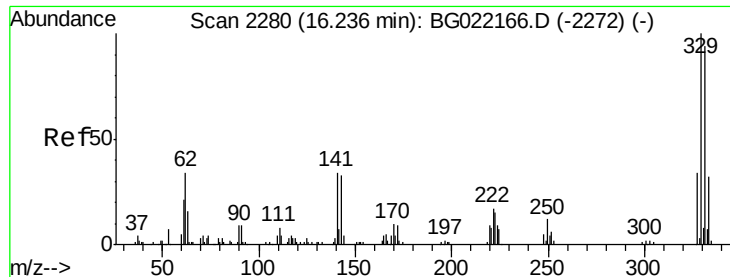
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.69 min Scan# 2018  
 Delta R.T. -0.03 min  
 Lab File: BG022390.D  
 Acq: 17 Jun 2016 7:00

Tgt Ion:164 Resp: 96206  
 Ion Ratio Lower Upper  
 164 100  
 162 108.7 78.0 117.0  
 160 47.2 32.9 49.3



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

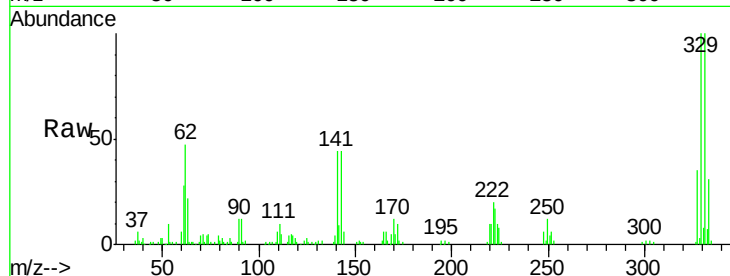




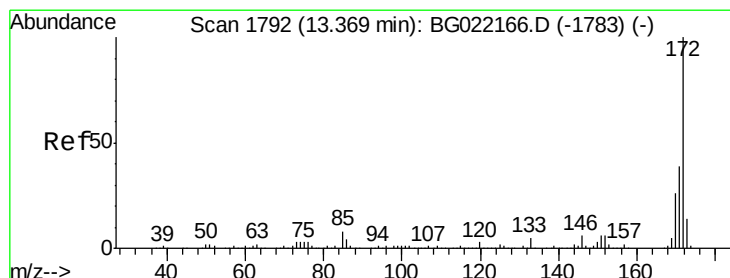
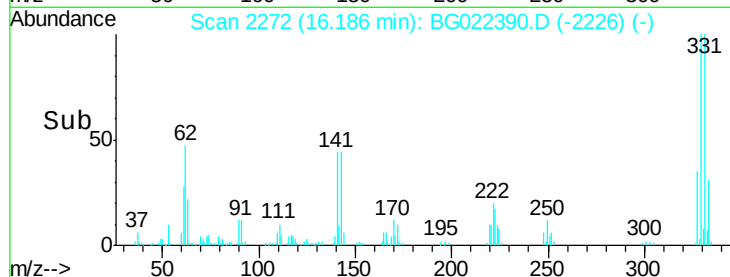
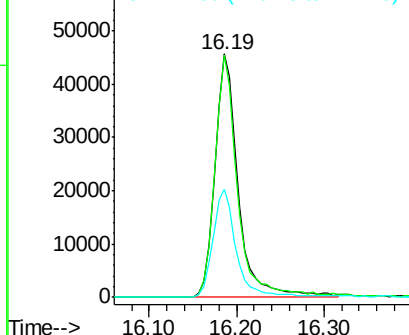
#41  
 2,4,6-Tribromophenol  
 Concen: 77.77 ng  
 RT: 16.19 min Scan# 2272  
 Delta R.T. -0.03 min  
 Lab File: BG022390.D  
 Acq: 17 Jun 2016 7:00

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-05-COMP

Tot Ion:330 Resp: 84544  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 78.0 117.0  
 141 42.8 33.8 50.8

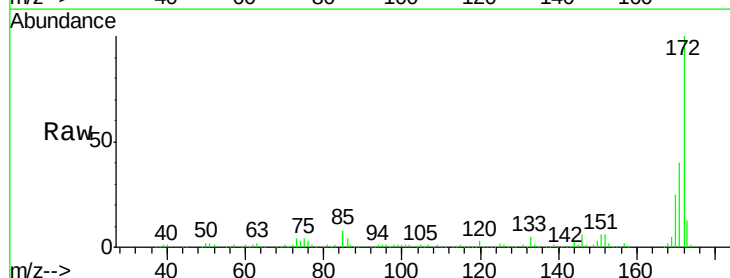


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

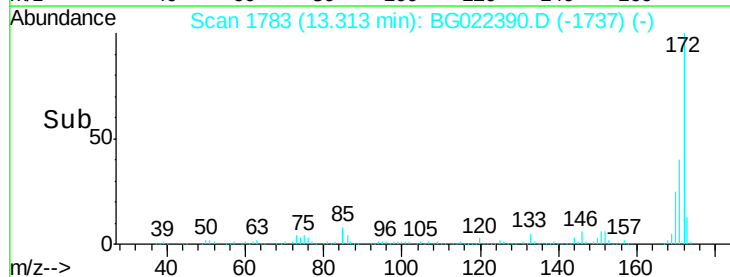
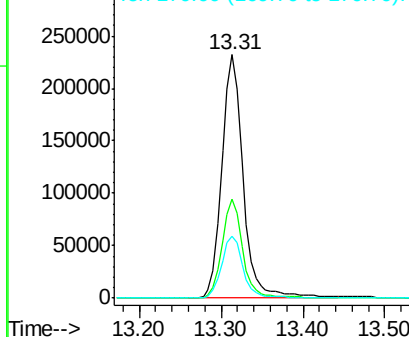


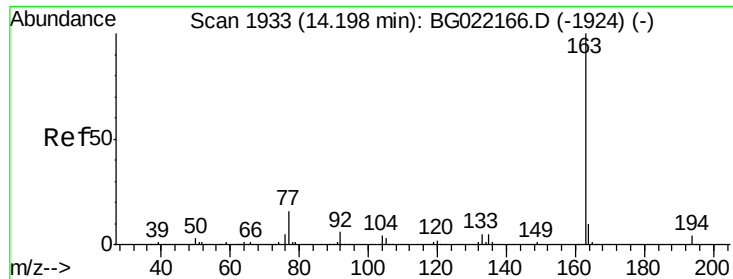
#44  
 2-Fluorobiphenyl  
 Concen: 66.92 ng  
 RT: 13.31 min Scan# 1783  
 Delta R.T. -0.03 min  
 Lab File: BG022390.D  
 Acq: 17 Jun 2016 7:00

Tgt Ion:172 Resp: 422466  
 Ion Ratio Lower Upper  
 172 100  
 171 40.5 27.8 41.6  
 170 25.2 19.6 29.4



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: 12.58 ng

RT: 14.14 min Scan# 1923

Delta R.T. -0.04 min

Lab File: BG022390.D

Acq: 17 Jun 2016 7:00

Instrument :

BNA\_G

ClientSampleId :

SB-05-COMP

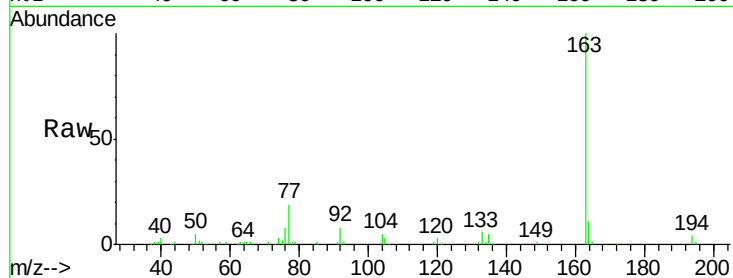
Tot Ion:163 Resp: 100345

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.6

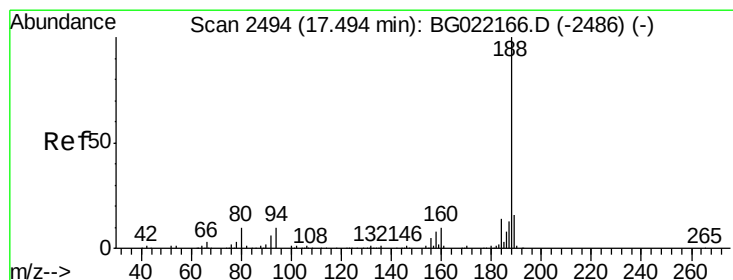
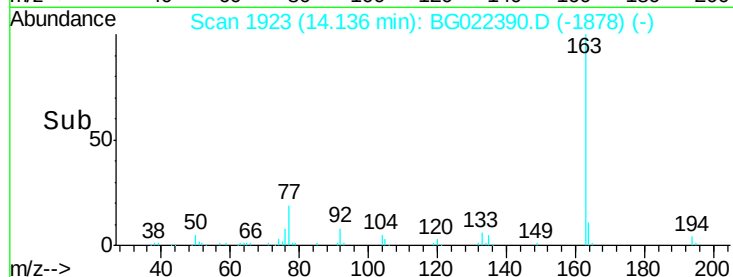
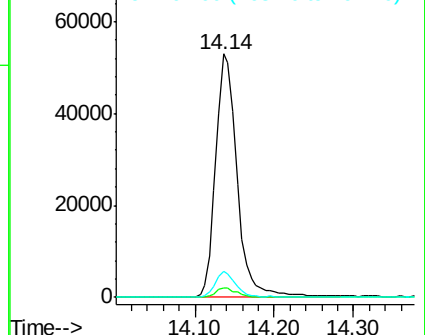
164 10.7 8.1 12.1



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: 17.44 min Scan# 2485

Delta R.T. -0.03 min

Lab File: BG022390.D

Acq: 17 Jun 2016 7:00

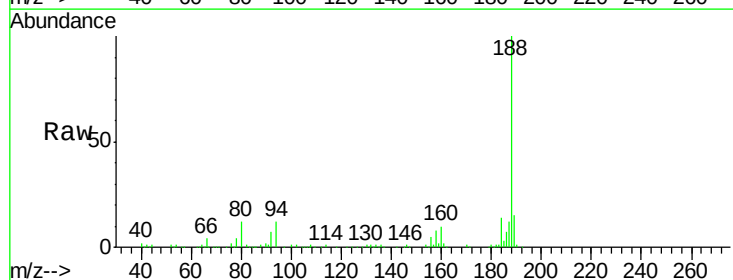
Tgt Ion:188 Resp: 185062

Ion Ratio Lower Upper

188 100

94 11.6 7.5 11.3#

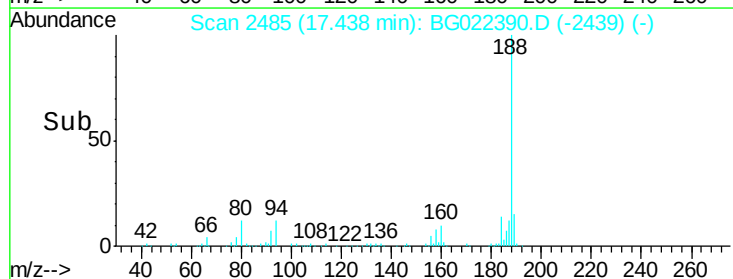
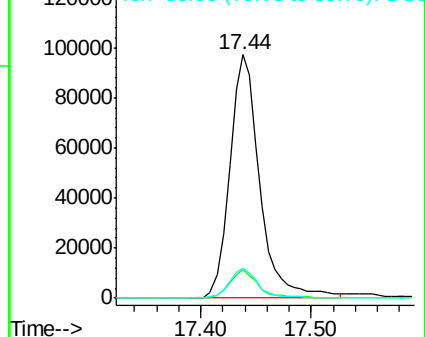
80 12.1 8.6 13.0

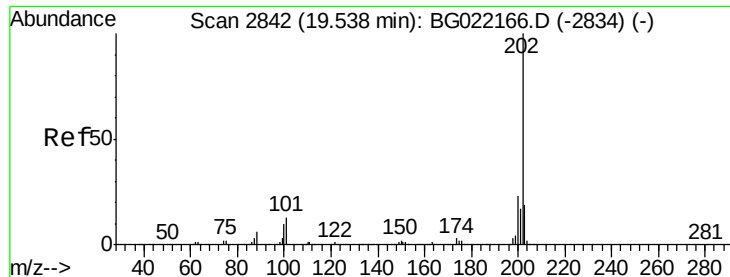


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0





#74

Fluoranthene

Concen: 5.73 ng

RT: 19.49 min Scan# 2834

Delta R.T. -0.02 min

Lab File: BG022390.D

Acq: 17 Jun 2016 7:00

Instrument :

BNA\_G

ClientSampleId :

SB-05-COMP

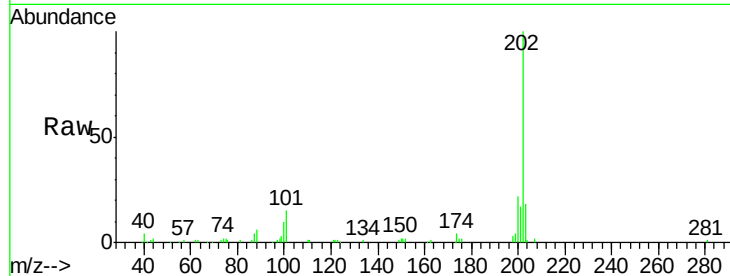
Tot Ion:202 Resp: 66206

Ion Ratio Lower Upper

202 100

101 14.6 0.0 31.0

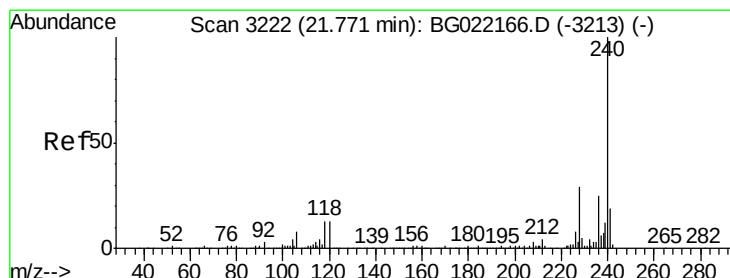
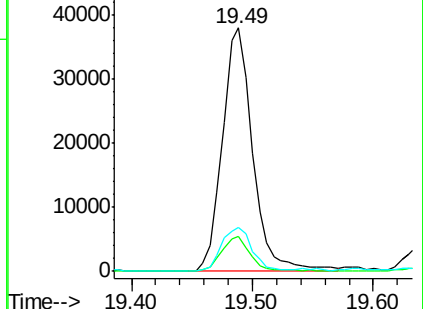
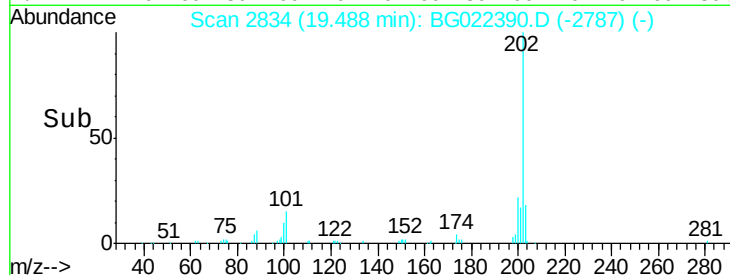
203 18.2 0.0 37.9



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: 21.71 min Scan# 3212

Delta R.T. -0.03 min

Lab File: BG022390.D

Acq: 17 Jun 2016 7:00

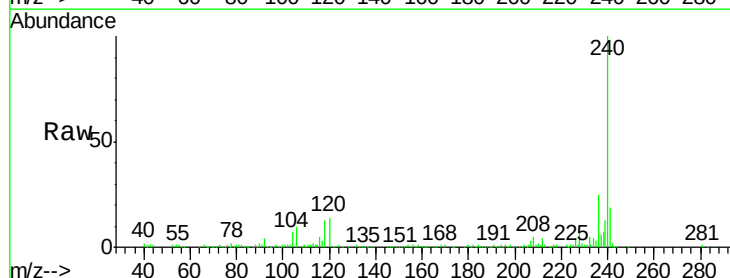
Tgt Ion:240 Resp: 154772

Ion Ratio Lower Upper

240 100

120 13.6 8.4 12.6#

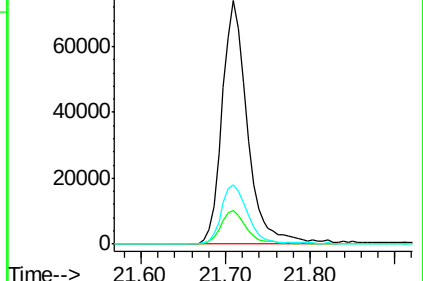
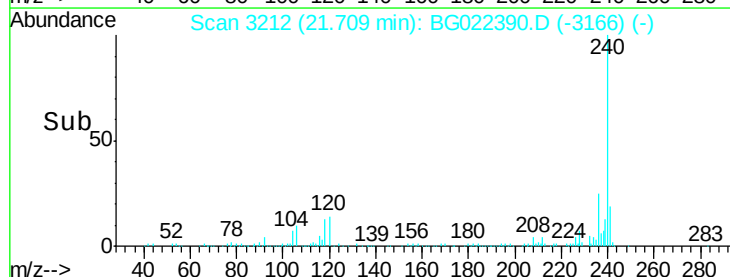
236 24.6 19.6 29.4



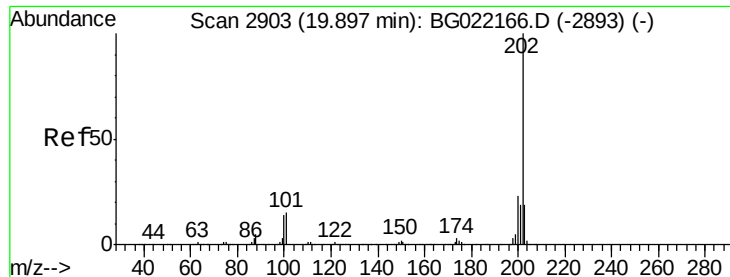
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



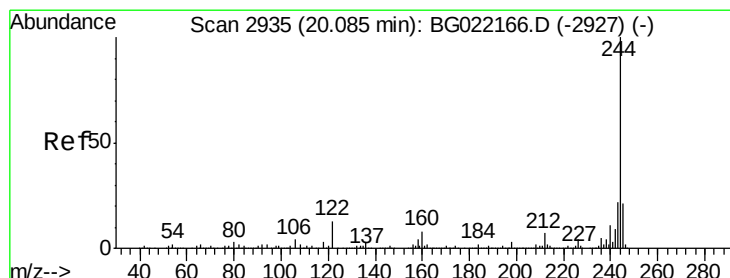
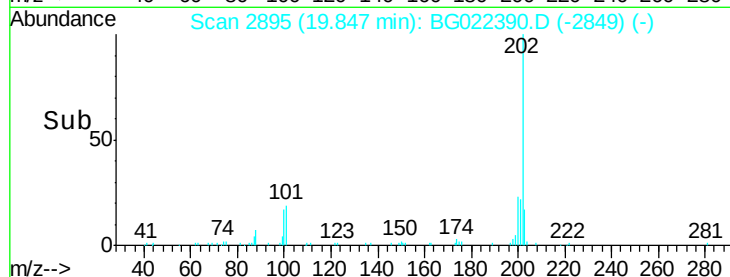
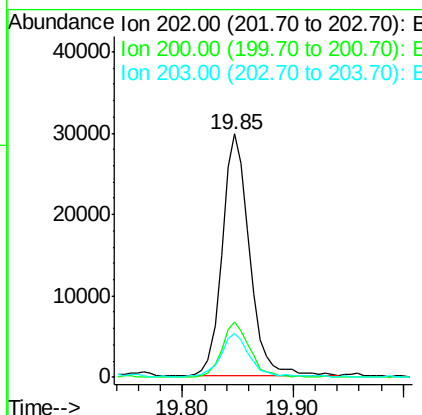
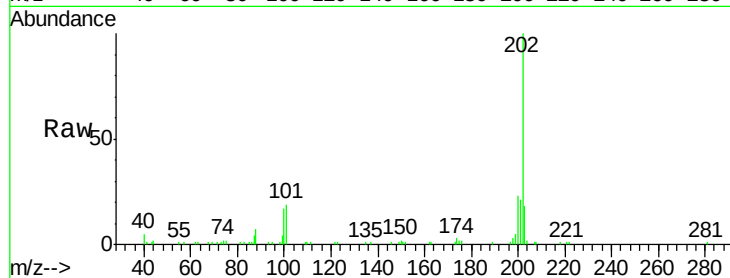




#77  
Pvrene  
Concen: 5.35 ng  
RT: 19.85 min Scan# 2895  
Delta R.T. -0.03 min  
Lab File: BG022390.D  
Acq: 17 Jun 2016 7:00

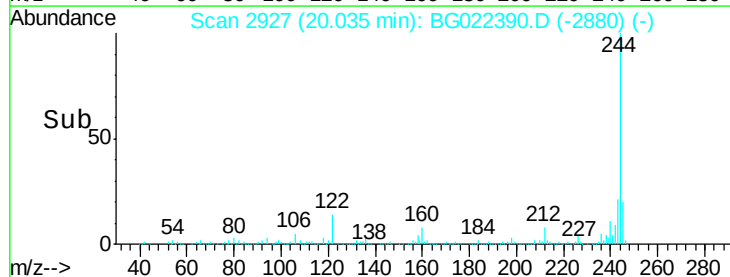
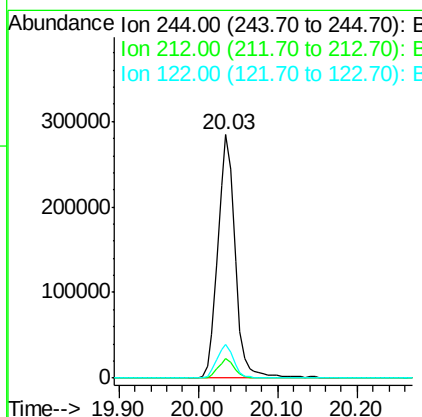
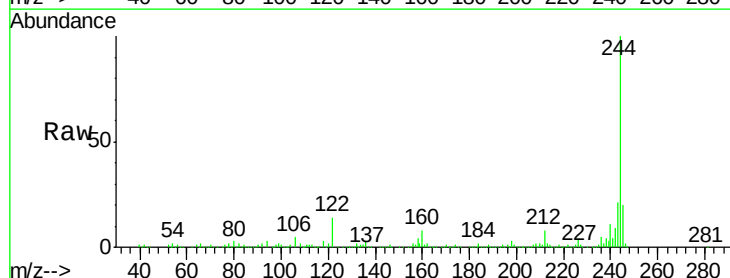
Instrument :  
BNA\_G  
ClientSampleId :  
SB-05-COMP

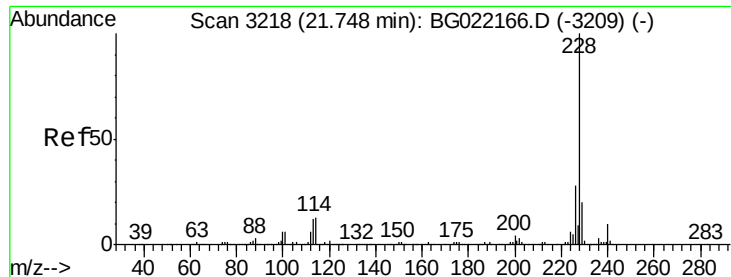
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 23.0  | 18.2  | 27.2  |
| 203     | 18.2  | 15.0  | 22.4  |



#78  
Terphenyl-d14  
Concen: 66.35 ng  
RT: 20.03 min Scan# 2927  
Delta R.T. -0.02 min  
Lab File: BG022390.D  
Acq: 17 Jun 2016 7:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.8   | 6.5   | 9.7   |
| 122     | 13.9  | 8.6   | 12.8  |

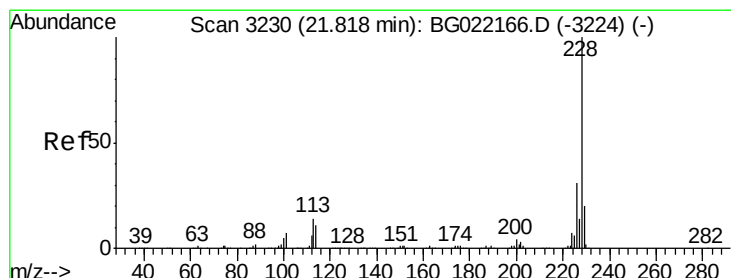
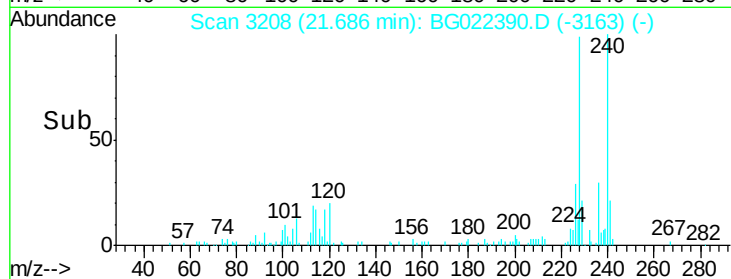
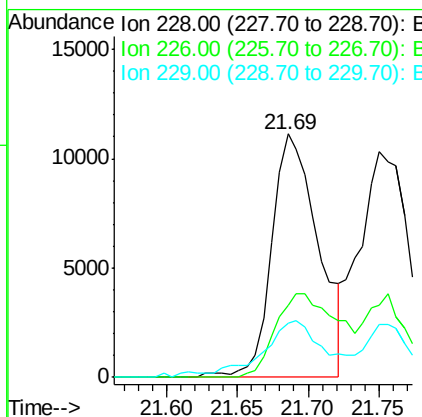
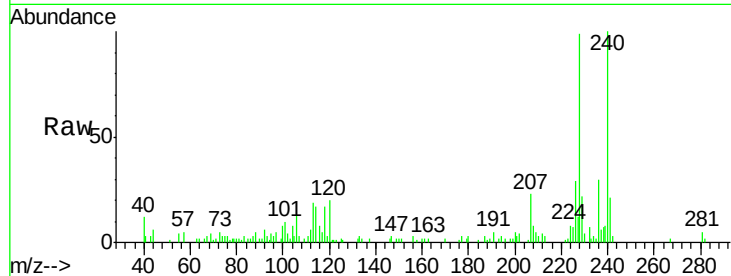




#80  
Benzo(a)anthracene  
Concen: 2.96 ng  
RT: 21.69 min Scan# 3208  
Delta R.T. -0.04 min  
Lab File: BG022390.D  
Acq: 17 Jun 2016 7:00

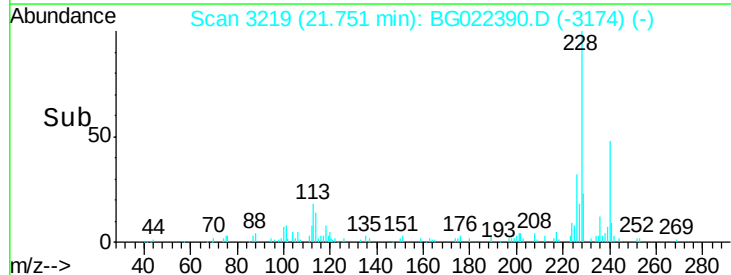
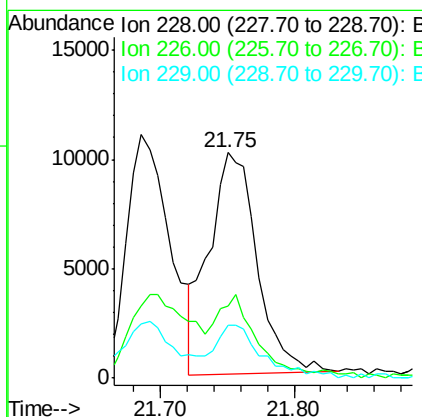
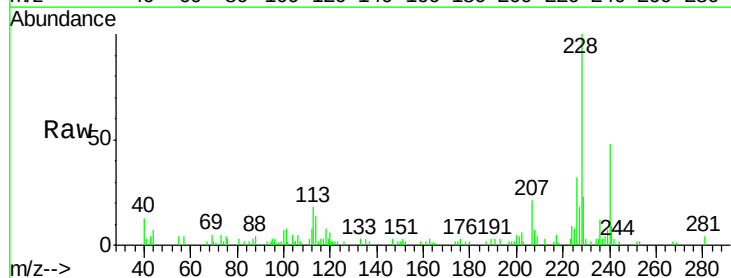
Instrument :  
BNA\_G  
ClientSampleId :  
SB-05-COMP

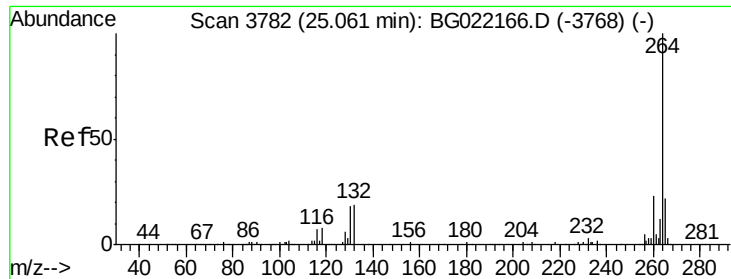
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 22.6  | 34.0  |
| 229     | 22.3  | 16.1  | 24.1  |



#82  
Chrysene  
Concen: 3.01 ng  
RT: 21.75 min Scan# 3219  
Delta R.T. -0.04 min  
Lab File: BG022390.D  
Acq: 17 Jun 2016 7:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.2  | 25.4  | 38.0  |
| 229     | 23.4  | 15.9  | 23.9  |

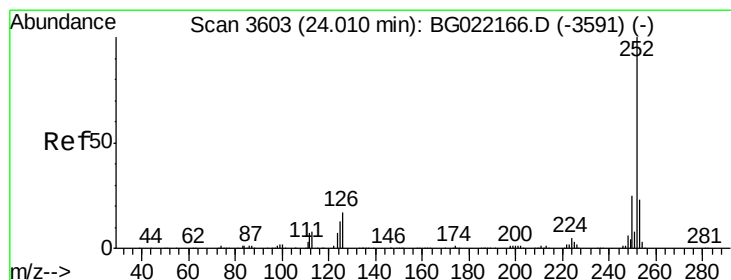
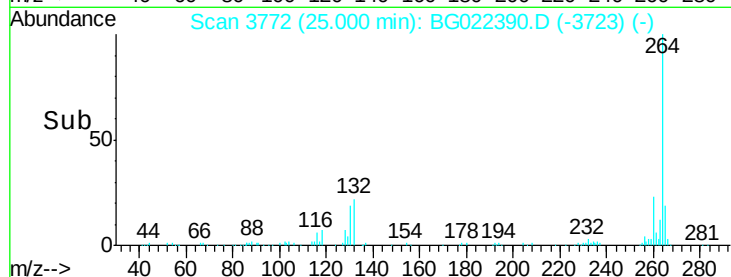
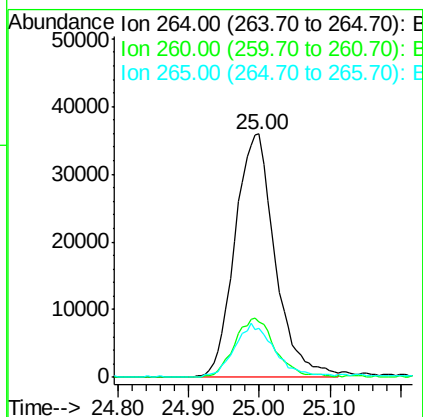
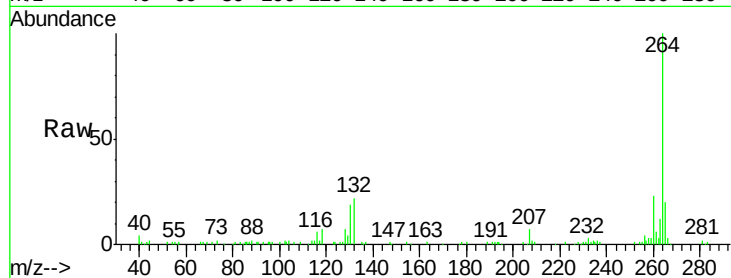




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 25.00 min Scan# 3772  
Delta R.T. -0.01 min  
Lab File: BG022390.D  
Acq: 17 Jun 2016 7:00

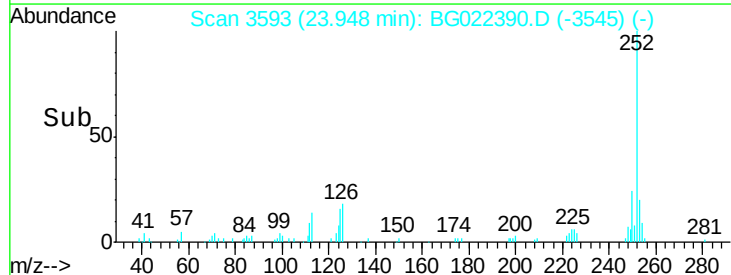
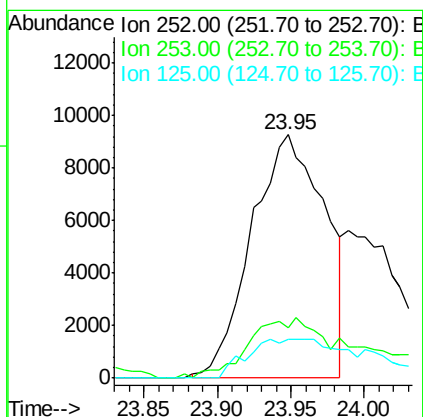
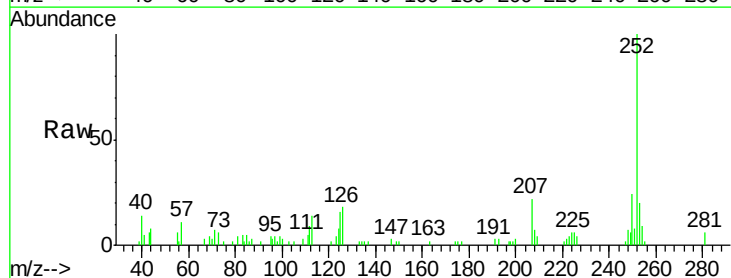
Instrument :  
BNA\_G  
ClientSampleId :  
SB-05-COMP

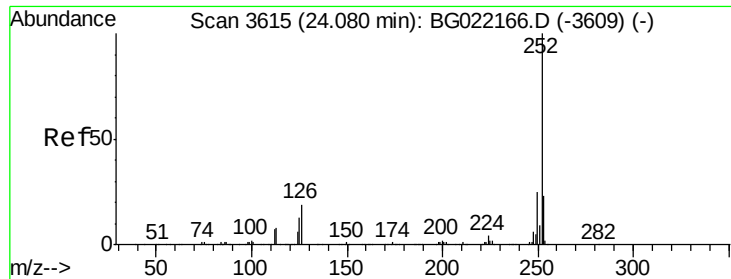
Tot Ion:264 Resp: 142081  
Ion Ratio Lower Upper  
264 100  
260 22.5 20.2 30.4  
265 19.9 17.8 26.8



#87  
Benzo(b)fluoranthene  
Concen: 3.88 ng m  
RT: 23.95 min Scan# 3593  
Delta R.T. -0.02 min  
Lab File: BG022390.D  
Acq: 17 Jun 2016 7:00

Tgt Ion:252 Resp: 32161  
Ion Ratio Lower Upper  
252 100  
253 20.5 17.5 26.3  
125 15.7 8.6 13.0#

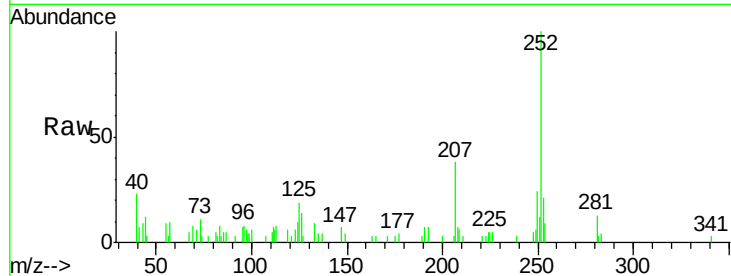




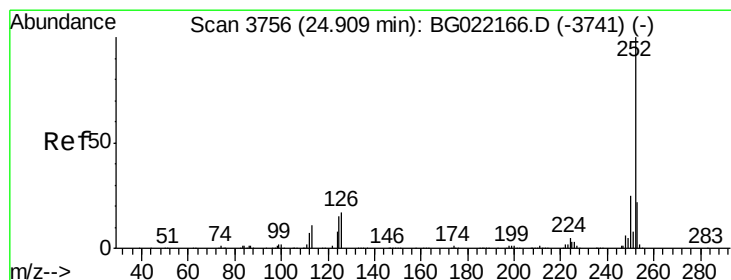
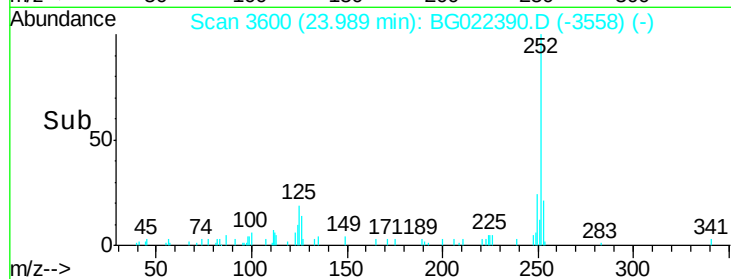
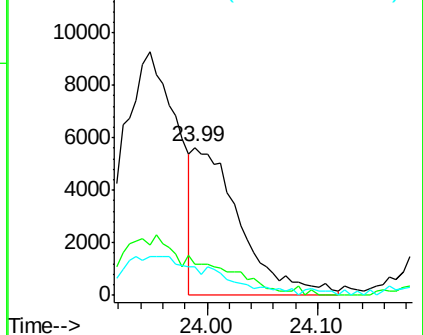
#88  
Benzo(k)fluoranthene  
Concen: 2.06 ng m  
RT: 23.99 min Scan# 3600  
Delta R.T. -0.05 min  
Lab File: BG022390.D  
Acq: 17 Jun 2016 7:00

Instrument :  
BNA\_G  
ClientSampleId :  
SB-05-COMP

Tot Ion:252 Resp: 16800  
Ion Ratio Lower Upper  
252 100  
253 21.1 17.8 26.8  
125 19.1 8.3 12.5#

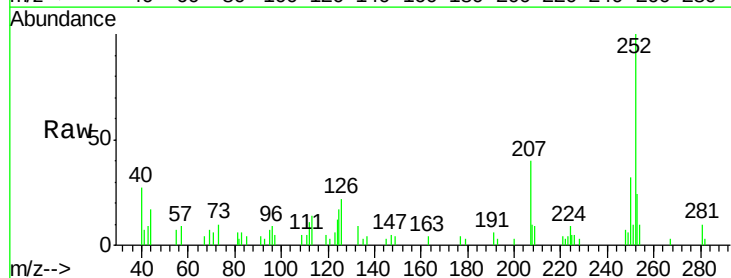


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#89  
Benzo(a)pyrene  
Concen: 2.57 ng  
RT: 24.84 min Scan# 3744  
Delta R.T. -0.02 min  
Lab File: BG022390.D  
Acq: 17 Jun 2016 7:00

Tgt Ion:252 Resp: 20327  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.1 25.7  
125 16.6 9.6 14.4#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

