

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG112319\  
 Data File : BG043767.D  
 Acq On : 23 Nov 2019 22:14  
 Operator : JU  
 Sample : K5933-11  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-COMP-02

Quant Time: Nov 25 03:28:20 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG112219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 23 00:54:00 2019  
 Response via : Initial Calibration

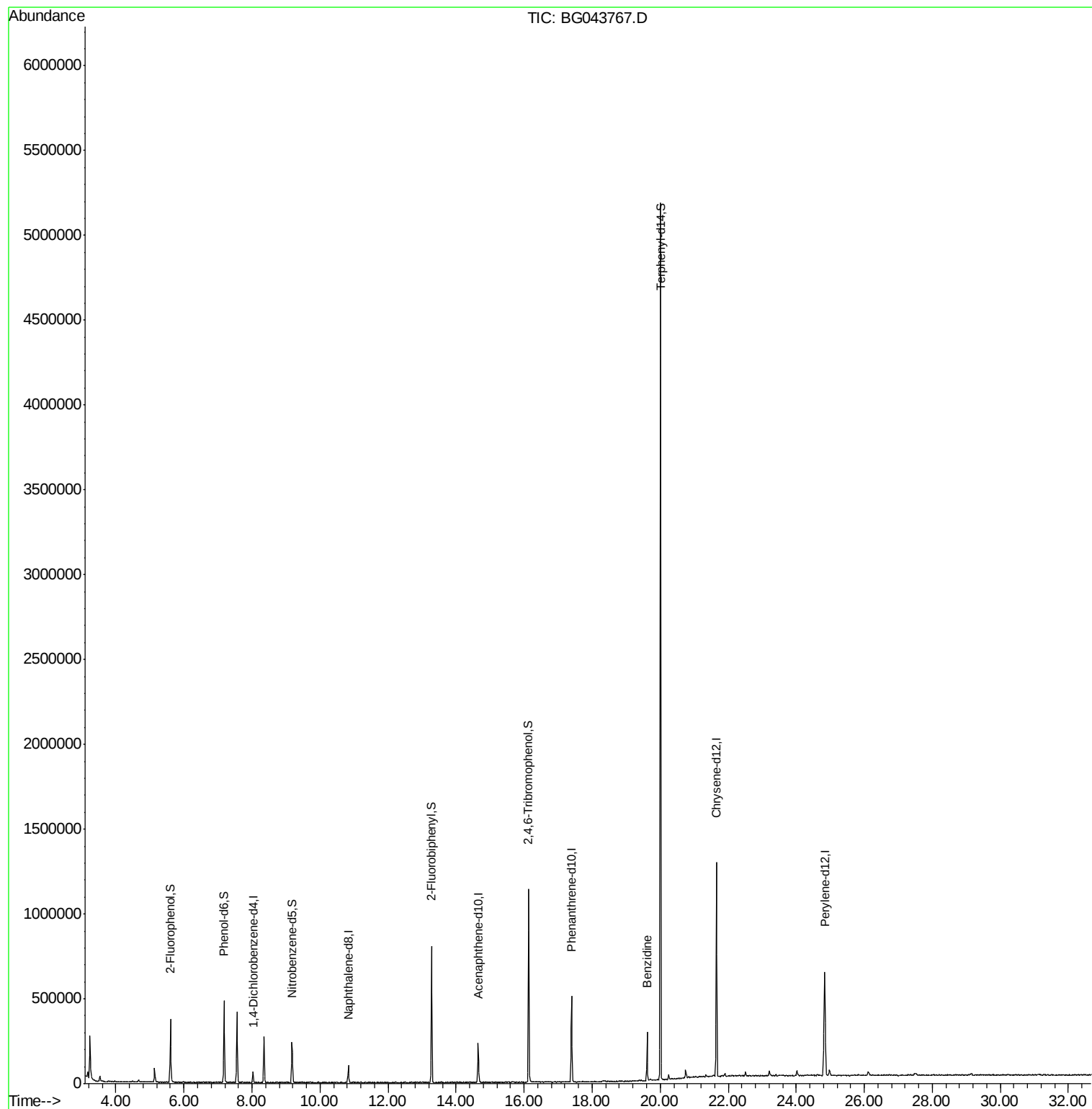
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.03  | 152  | 18549    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8          | 10.83 | 136  | 85858    | 20.00  | ng    | 0.00      |
| 39) Acenaphthene-d10        | 14.65 | 164  | 82275    | 20.00  | ng    | 0.00      |
| 64) Phenanthrene-d10        | 17.39 | 188  | 324946   | 20.00  | ng    | 0.00      |
| 76) Chrysene-d12            | 21.65 | 240  | 695585   | 20.00  | ng    | -0.01     |
| 87) Perylene-d12            | 24.83 | 264  | 637800   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.60  | 112  | 186951   | 181.19 | ng    | 0.00      |
| 7) Phenol-d6                | 7.18  | 99   | 290211   | 193.49 | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 9.18  | 82   | 145060   | 92.89  | ng    | 0.00      |
| 42) 2,4,6-Tribromophenol    | 16.13 | 330  | 205959   | 207.54 | ng    | -0.01     |
| 45) 2-Fluorobiphenyl        | 13.28 | 172  | 428408   | 85.59  | ng    | -0.01     |
| 79) Terphenyl-d14           | 20.01 | 244  | 2240611  | 72.79  | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 77) Benzidine               | 19.62 | 184  | 168206   | 8.278  | ng    | Qvalue 95 |

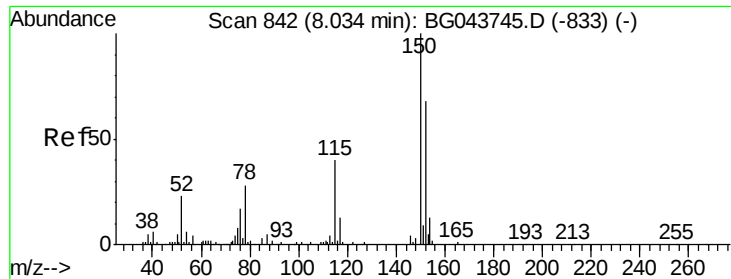
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Nov 23 00:54:00 2019  
Response via : Initial Calibration



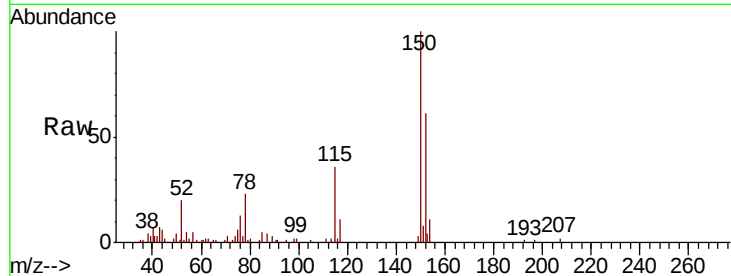


#1

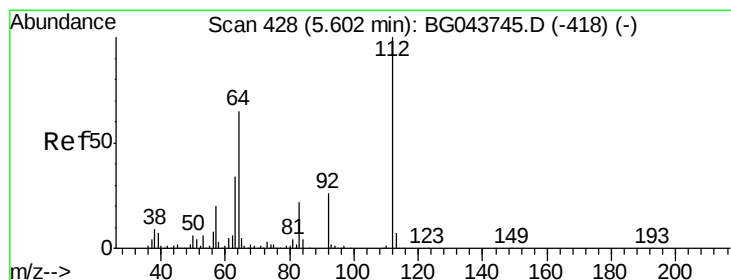
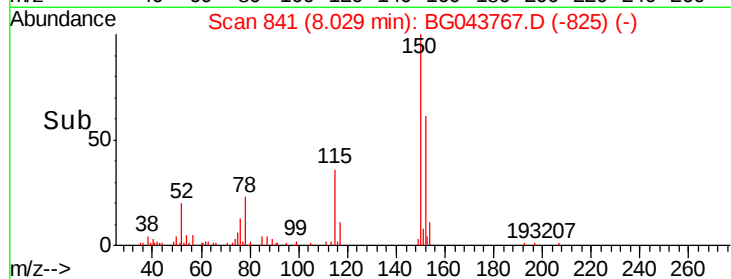
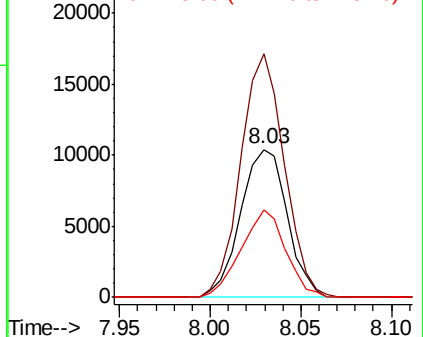
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.03 min Scan# 841  
 Delta R.T. -0.00 min  
 Lab File: BG043767.D  
 Acq: 23 Nov 2019 22:14

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-COMP-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 164.7 | 117.8 | 176.8 |
| 115     | 59.2  | 47.0  | 70.4  |



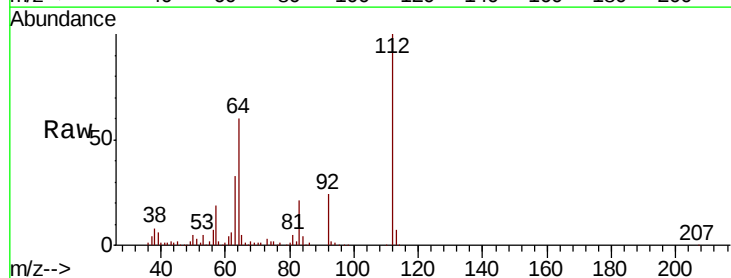
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



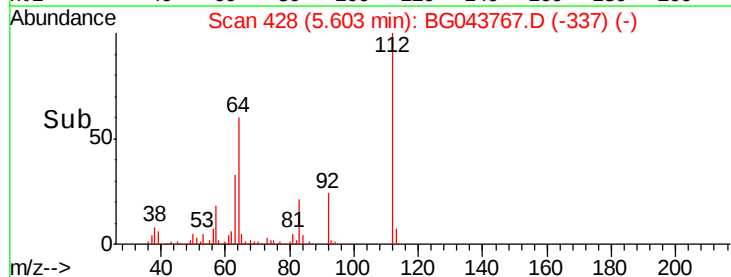
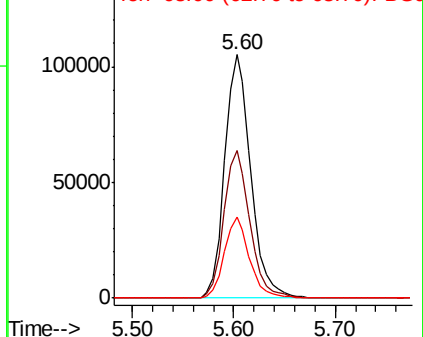
#5

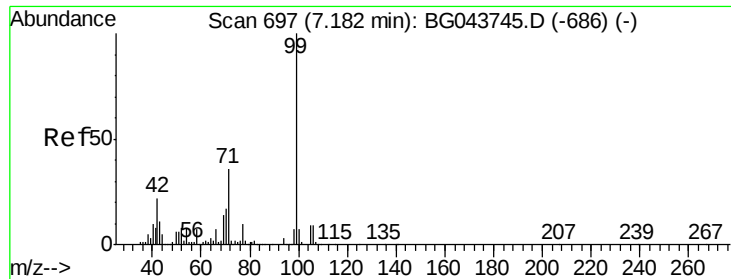
2-Fluorophenol  
 Concen: 181.194 ng  
 RT: 5.60 min Scan# 428  
 Delta R.T. 0.00 min  
 Lab File: BG043767.D  
 Acq: 23 Nov 2019 22:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.5  | 51.7  | 77.5  |
| 63      | 33.5  | 26.8  | 40.2  |



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: 193.492 ng

RT: 7.18 min Scan# 696

Delta R.T. -0.00 min

Lab File: BG043767.D

Acq: 23 Nov 2019 22:14

Instrument :

BNA\_G

ClientSampleId :

WC-COMP-02

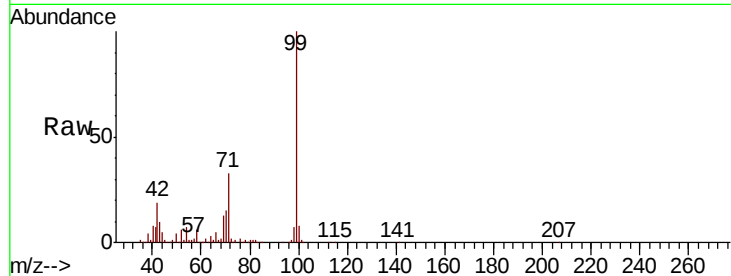
Tot Ion: 99 Resp: 290211

Ion Ratio Lower Upper

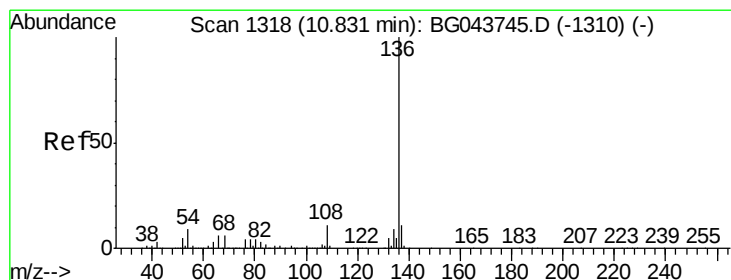
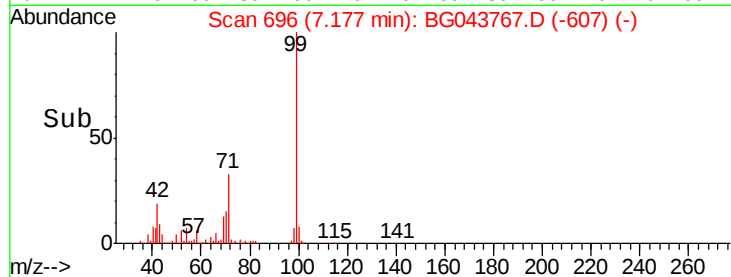
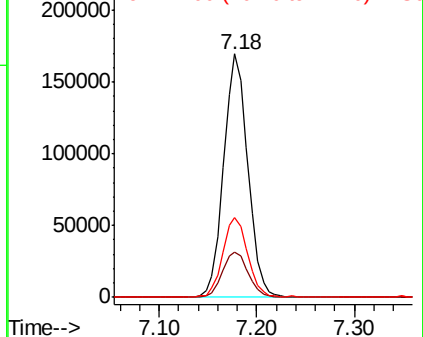
99 100

42 18.8 17.4 26.0

71 32.9 29.5 44.3



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: 20.000 ng

RT: 10.83 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BG043767.D

Acq: 23 Nov 2019 22:14

Tgt Ion: 136 Resp: 85858

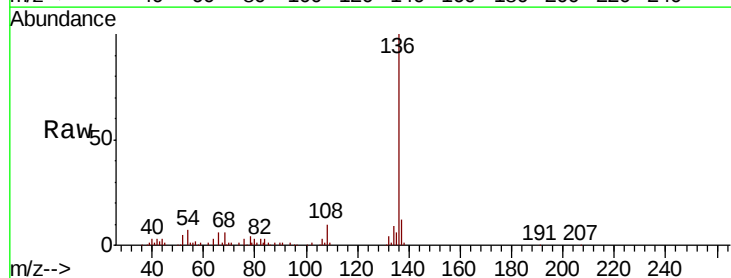
Ion Ratio Lower Upper

136 100

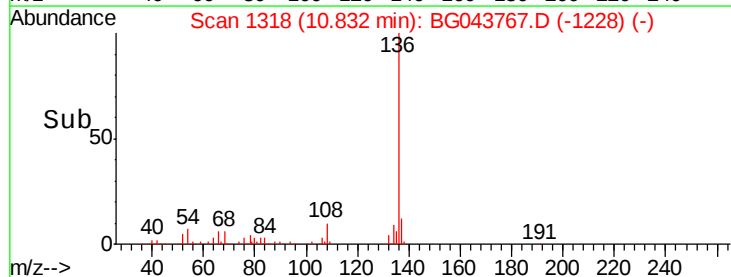
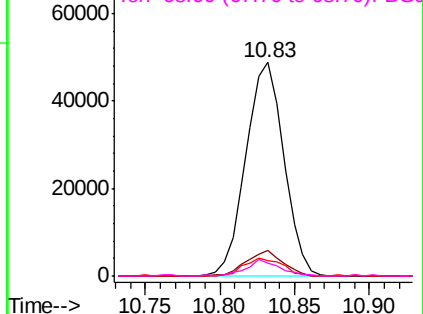
137 12.2 8.8 13.2

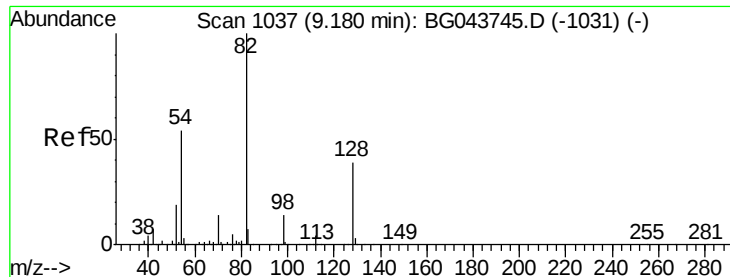
54 7.4 7.5 11.3#

68 5.8 4.9 7.3



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC





#23

Nitrobenzene-d5

Concen: 92.895 ng

RT: 9.18 min Scan# 1036

Delta R.T. -0.00 min

Lab File: BG043767.D

Acq: 23 Nov 2019 22:14

Instrument :

BNA\_G

ClientSampleId :

WC-COMP-02

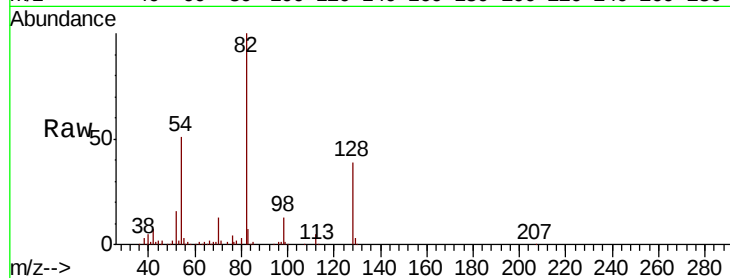
Tot Ion: 82 Resp: 145060

Ion Ratio Lower Upper

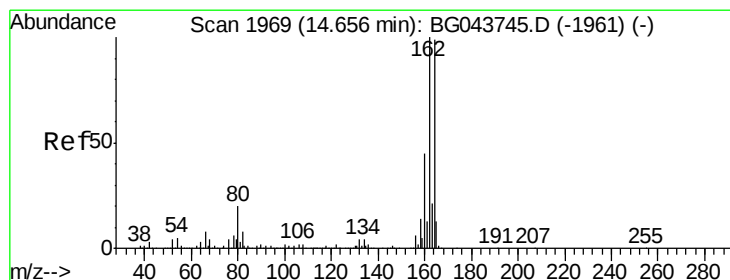
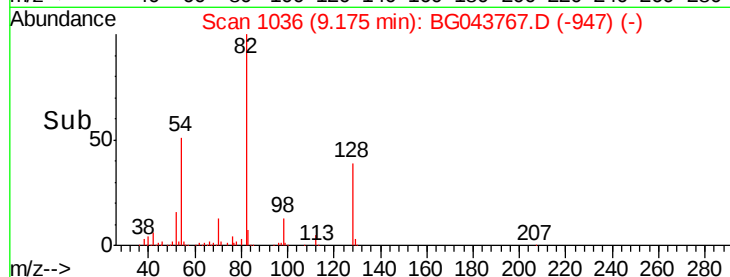
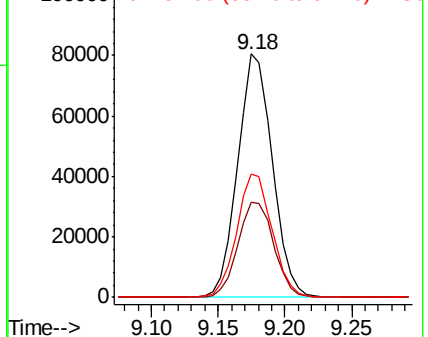
82 100

128 39.3 31.3 46.9

54 50.6 42.7 64.1



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.65 min Scan# 1968

Delta R.T. -0.00 min

Lab File: BG043767.D

Acq: 23 Nov 2019 22:14

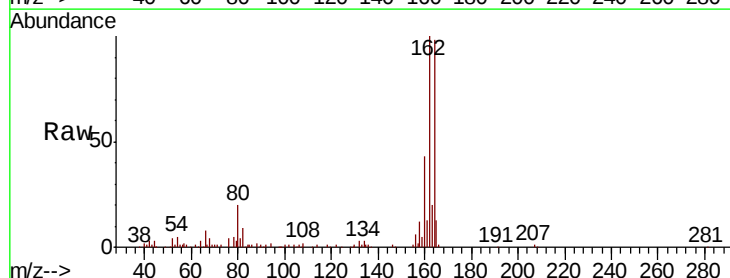
Tgt Ion:164 Resp: 82275

Ion Ratio Lower Upper

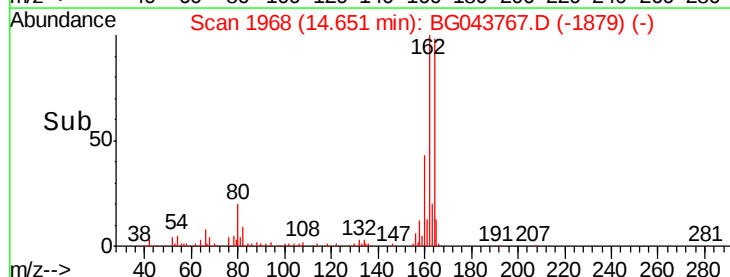
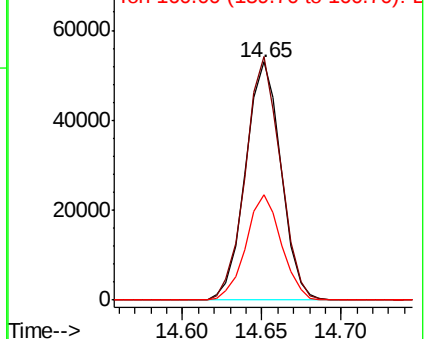
164 100

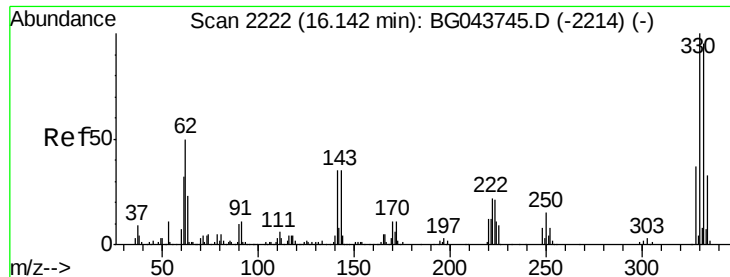
162 102.2 80.6 121.0

160 44.2 36.3 54.5



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

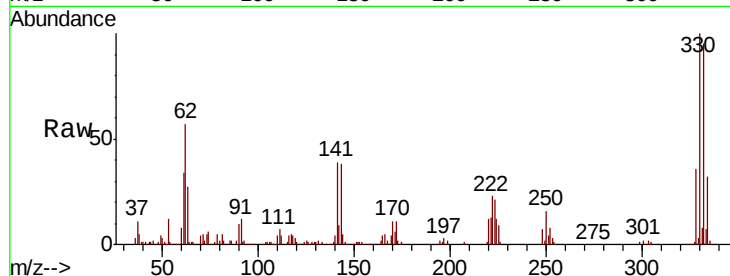




#42  
 2,4,6-Tribromophenol  
 Concen: 207.544 ng  
 RT: 16.13 min Scan# 2220  
 Delta R.T. -0.01 min  
 Lab File: BG043767.D  
 Acq: 23 Nov 2019 22:14

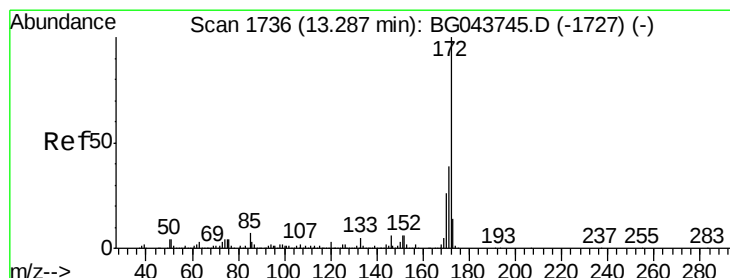
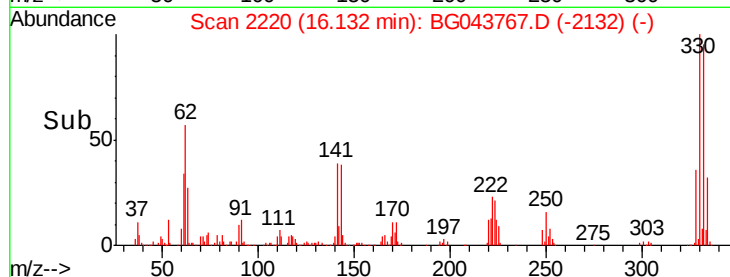
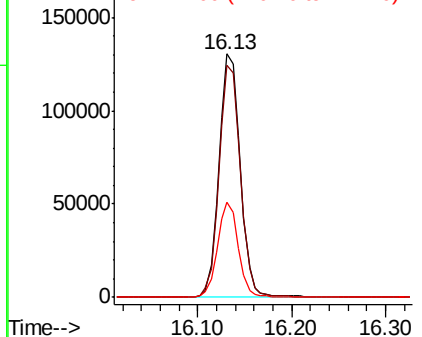
Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-COMP-02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 77.3  | 115.9 |
| 141     | 38.2  | 31.4  | 47.2  |



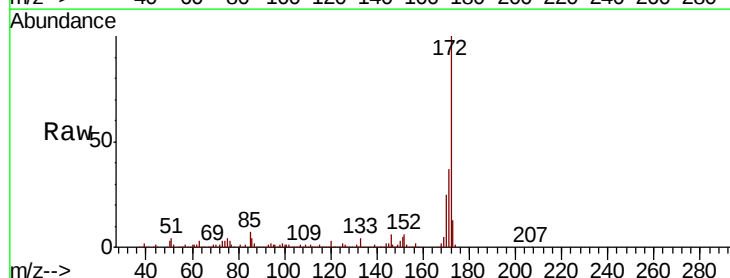
Abundance

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



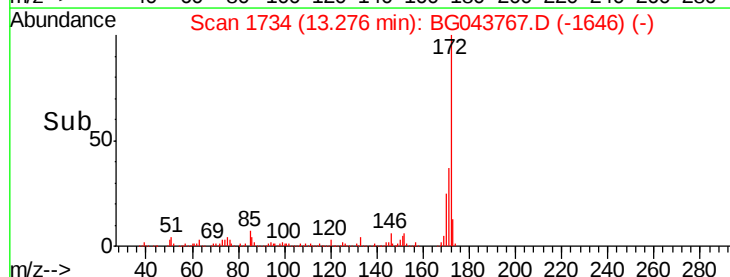
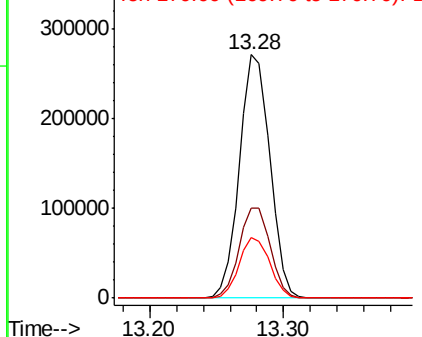
#45  
 2-Fluorobiphenyl  
 Concen: 85.592 ng  
 RT: 13.28 min Scan# 1734  
 Delta R.T. -0.01 min  
 Lab File: BG043767.D  
 Acq: 23 Nov 2019 22:14

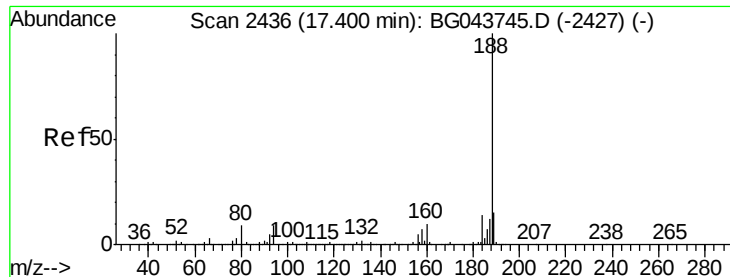
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 31.0  | 46.6  |
| 170     | 24.8  | 21.0  | 31.4  |



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

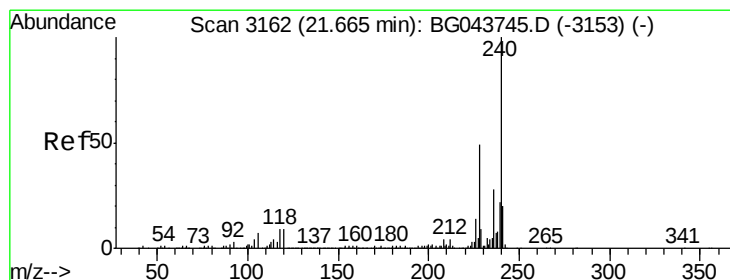
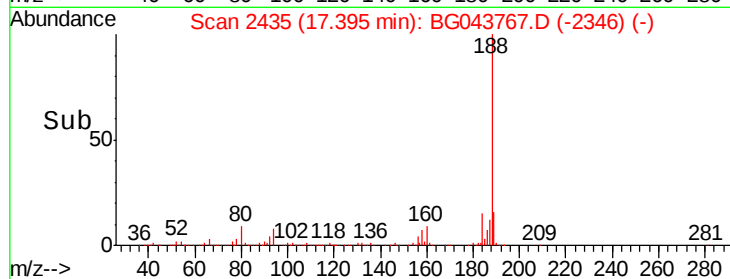
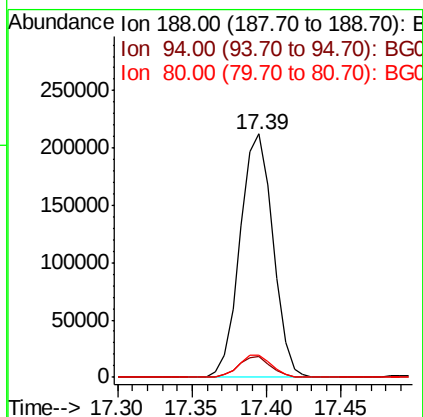
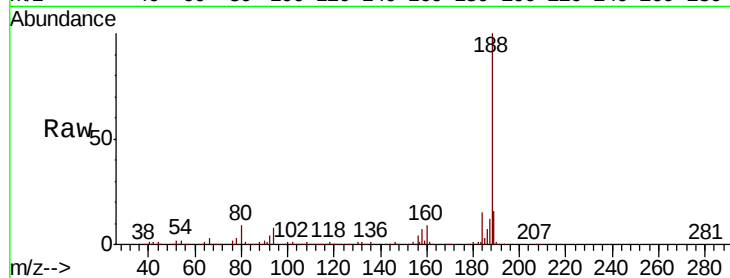




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.39 min Scan# 2435  
Delta R.T. -0.00 min  
Lab File: BG043767.D  
Acq: 23 Nov 2019 22:14

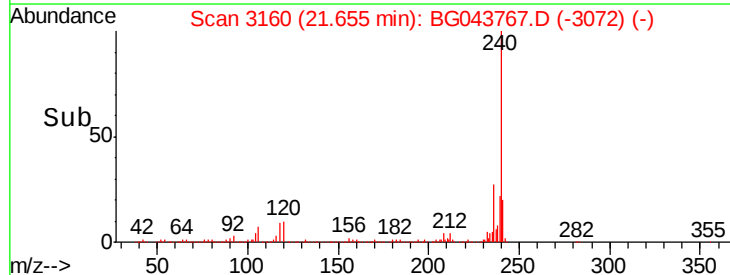
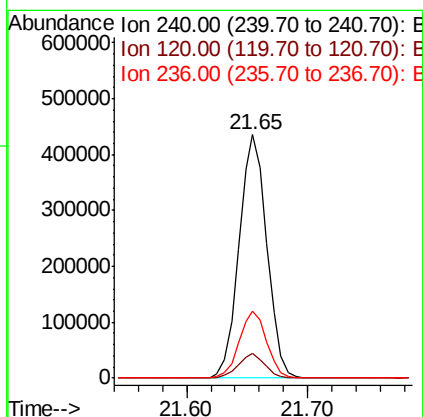
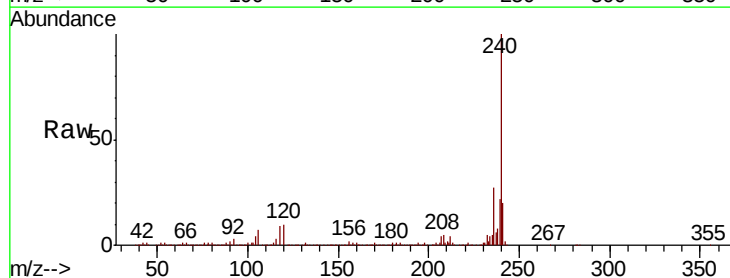
Instrument :  
BNA\_G  
ClientSampleId :  
WC-COMP-02

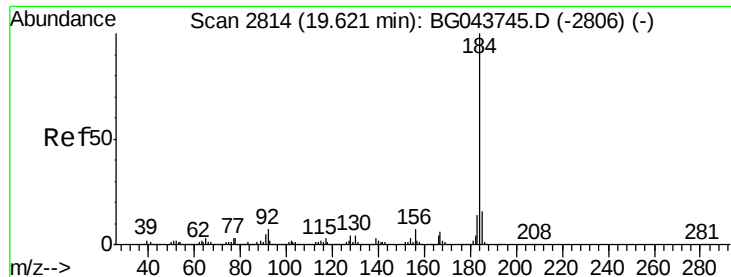
Tot Ion:188 Resp: 324946  
Ion Ratio Lower Upper  
188 100  
94 8.4 6.9 10.3  
80 8.9 7.5 11.3



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.65 min Scan# 3160  
Delta R.T. -0.01 min  
Lab File: BG043767.D  
Acq: 23 Nov 2019 22:14

Tgt Ion:240 Resp: 695585  
Ion Ratio Lower Upper  
240 100  
120 10.3 7.5 11.3  
236 27.3 22.6 34.0





#77

Benzidine

Concen: 8.278 ng

RT: 19.62 min Scan# 2813

Delta R.T. -0.00 min

Lab File: BG043767.D

Acq: 23 Nov 2019 22:14

Instrument :

BNA\_G

ClientSampleId :

WC-COMP-02

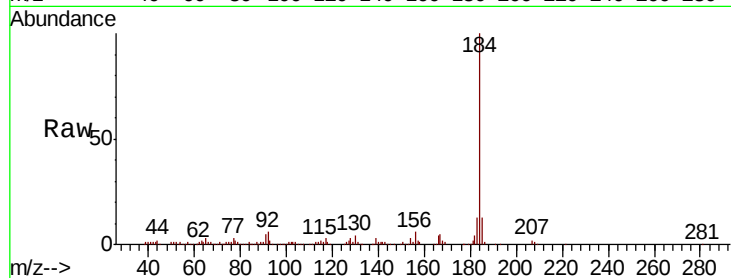
Tot Ion:184 Resp: 168206

Ion Ratio Lower Upper

184 100

185 13.0 12.8 19.2

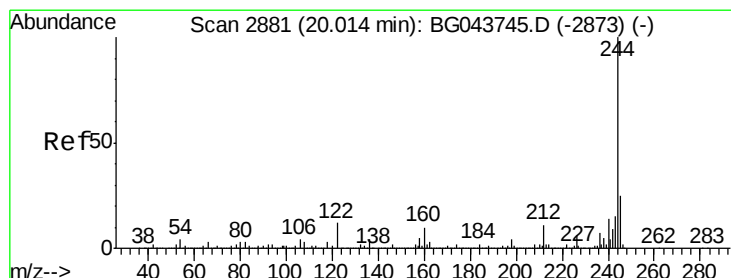
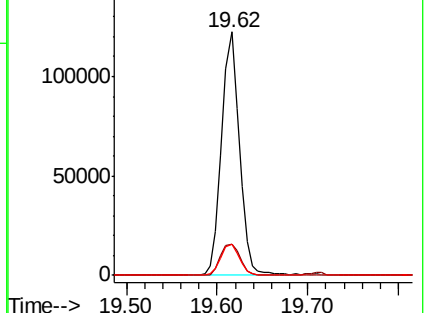
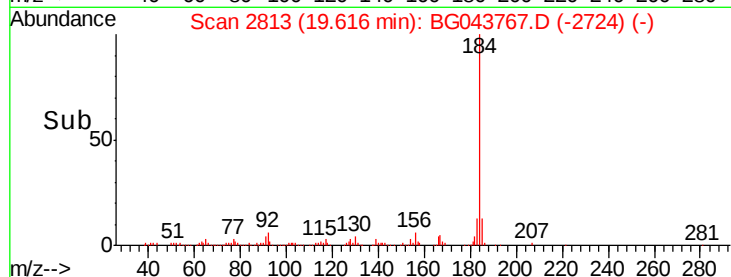
183 12.8 11.3 16.9



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



#79

Terphenyl-d14

Concen: 72.787 ng

RT: 20.01 min Scan# 2880

Delta R.T. -0.00 min

Lab File: BG043767.D

Acq: 23 Nov 2019 22:14

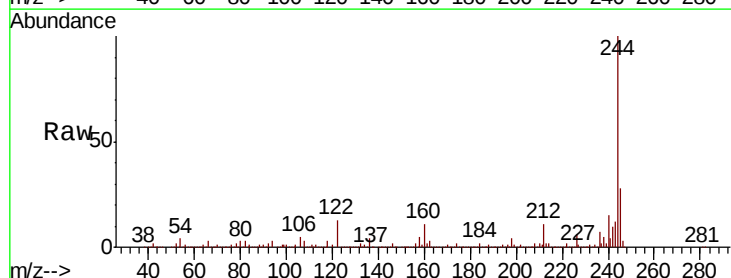
Tgt Ion:244 Resp: 2240611

Ion Ratio Lower Upper

244 100

212 11.3 8.5 12.7

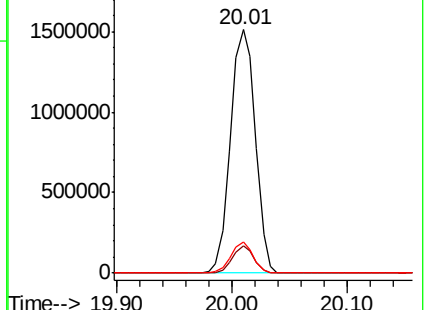
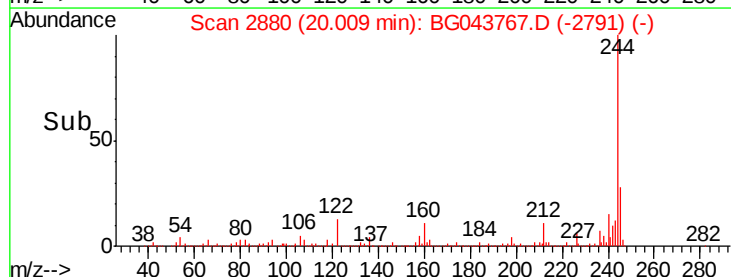
122 12.8 9.5 14.3

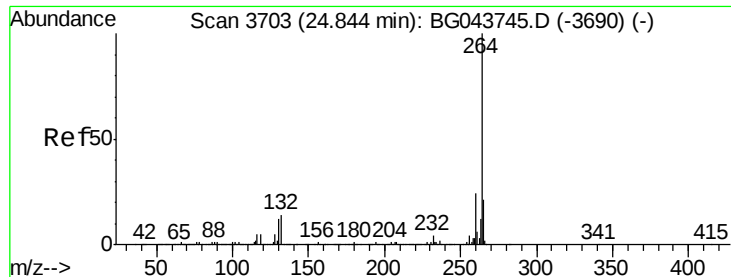


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.83 min Scan# 3701  
Delta R.T. -0.01 min  
Lab File: BG043767.D  
Acq: 23 Nov 2019 22:14

Instrument :  
BNA\_G  
ClientSampleId :  
WC-COMP-02

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 264     | 100  |       |       |       |
| 260     | 25.3 | 19.4  | 29.2  |       |
| 265     | 22.2 | 17.0  | 25.6  |       |

