

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081719\  
 Data File : BG042292.D  
 Acq On : 17 Aug 2019 16:06  
 Operator : HP/JU  
 Sample : K4264-06  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 REACTOR-3-C1-C4-(3)

Quant Time: Aug 19 07:26:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG072719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 06:42:36 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.01  | 152  | 61217    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.83 | 136  | 228121   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.67 | 164  | 168839   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.42 | 188  | 412658   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.70 | 240  | 475603   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 24.94 | 264  | 546523   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.56  | 112  | 402281   | 127.85 | ng    | 0.00     |
| 7) Phenol-d6                | 7.17  | 99   | 481750   | 113.57 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.18  | 82   | 350382   | 105.70 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.16 | 330  | 365872   | 190.78 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.29 | 172  | 1050120  | 109.70 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.03 | 244  | 2074168  | 99.79  | ng    | 0.00     |

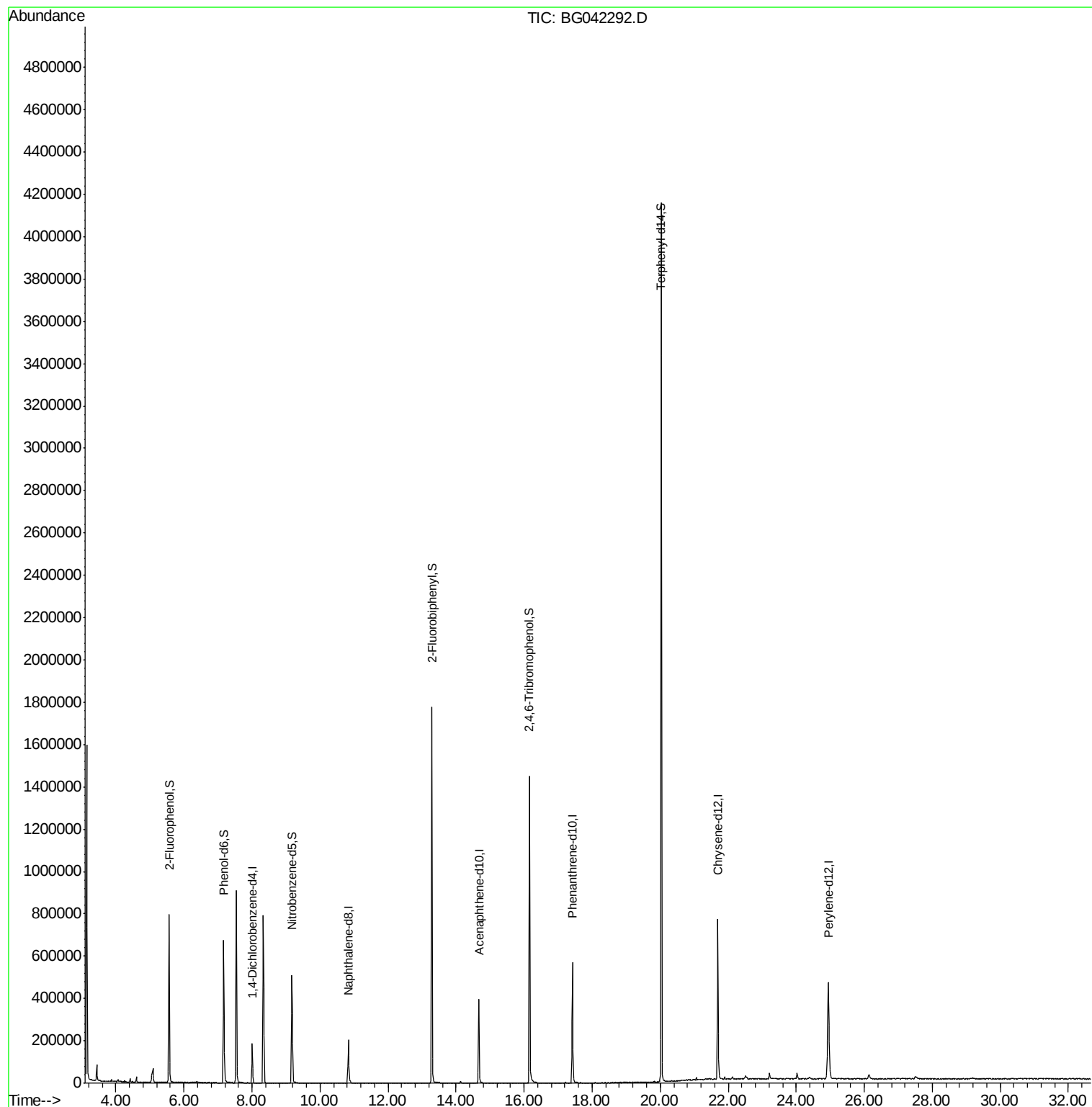
Target Compounds Qvalue

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

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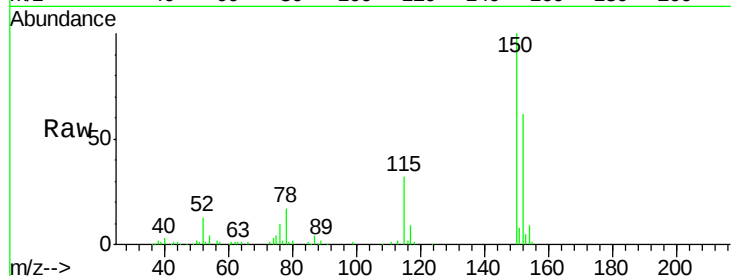


#1

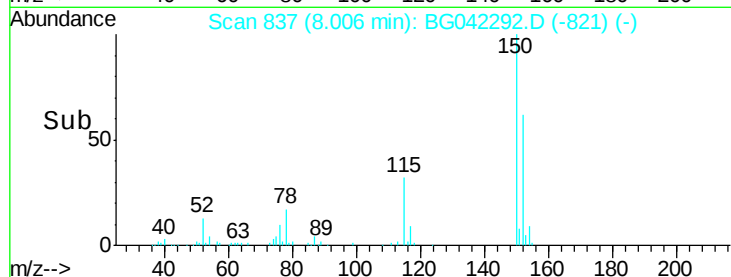
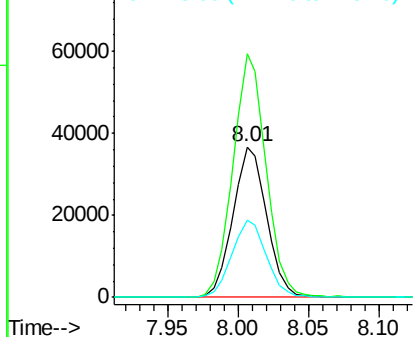
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 837  
Delta R.T. -0.01 min  
Lab File: BG042292.D  
Acq: 17 Aug 2019 16:06

Instrument :  
BNA\_G  
ClientSampleId :  
REACTOR-3-C1-C4-(3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.1 | 126.9 | 190.3 |
| 115     | 51.2  | 45.0  | 67.6  |



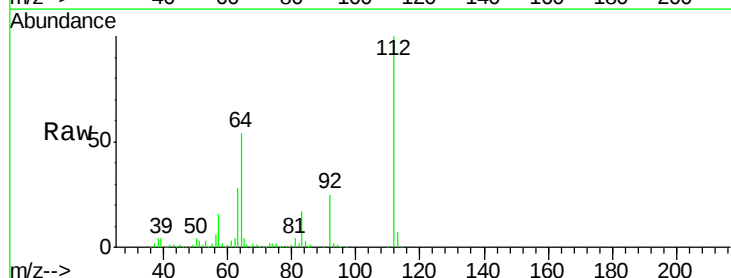
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



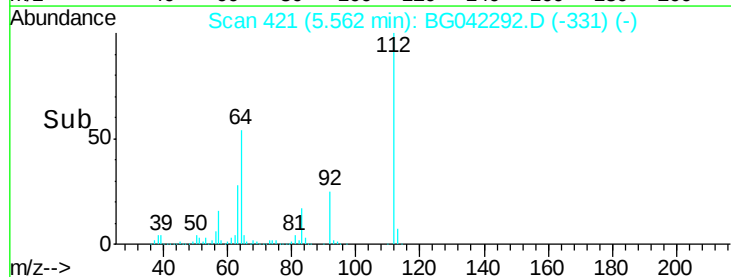
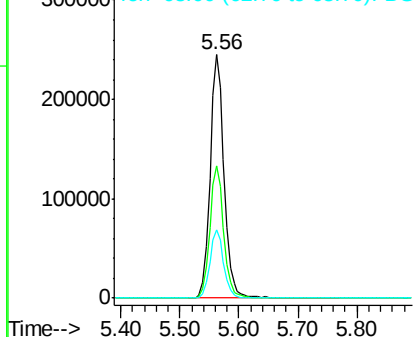
#5

2-Fluorophenol  
Concen: 127.854 ng  
RT: 5.56 min Scan# 421  
Delta R.T. 0.00 min  
Lab File: BG042292.D  
Acq: 17 Aug 2019 16:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.4  | 55.4  | 83.2# |
| 63      | 28.2  | 29.1  | 43.7# |



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: 113.571 ng

RT: 7.17 min Scan# 695

Delta R.T. 0.01 min

Lab File: BG042292.D

Acq: 17 Aug 2019 16:06

Instrument :

BNA\_G

ClientSampleId :

REACTOR-3-C1-C4-(3)

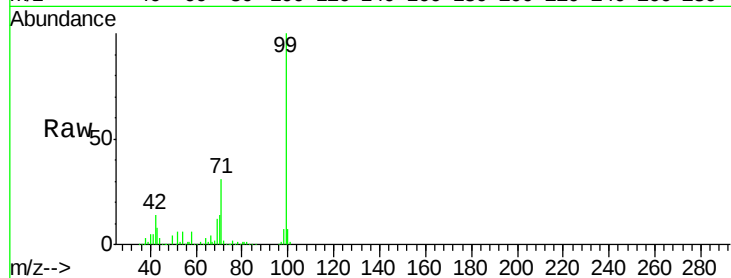
Tot Ion: 99 Resp: 481750

Ion Ratio Lower Upper

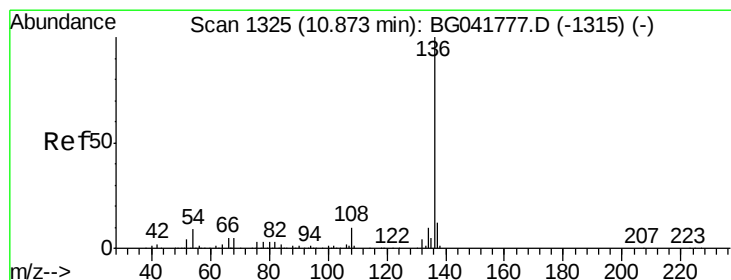
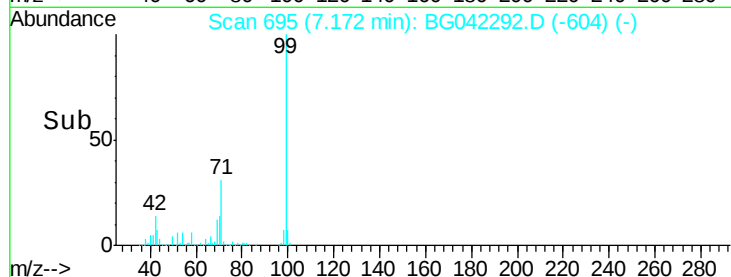
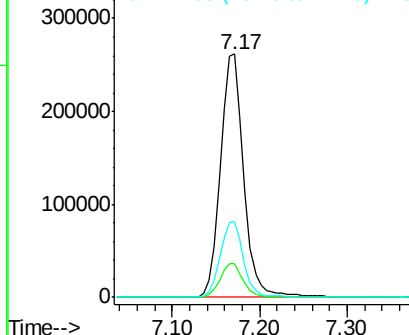
99 100

42 13.6 17.6 26.4#

71 31.2 27.8 41.6



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: BG042292.D

Acq: 17 Aug 2019 16:06

Tgt Ion: 136 Resp: 228121

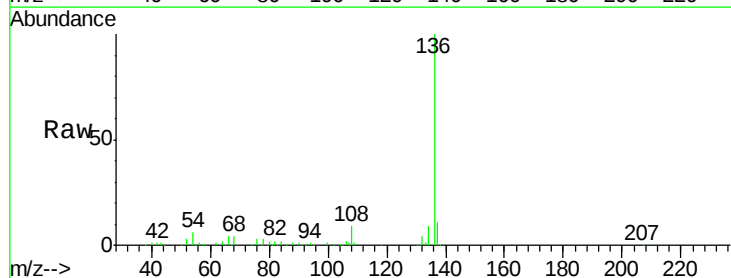
Ion Ratio Lower Upper

136 100

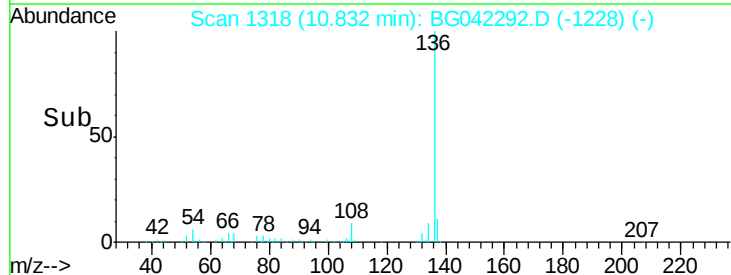
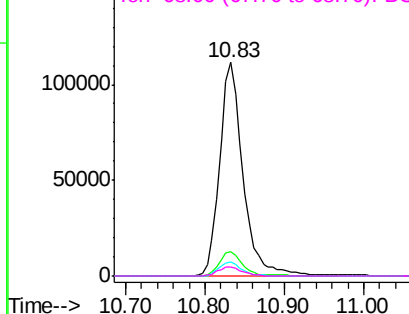
137 11.1 9.2 13.8

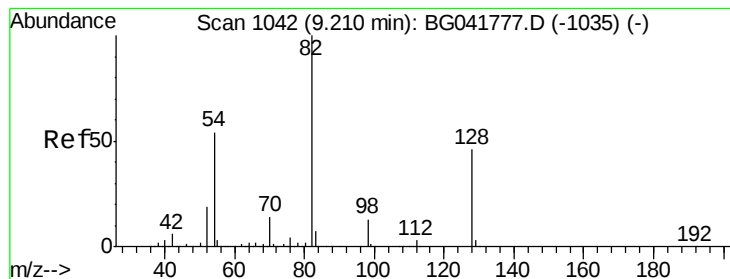
54 6.5 8.7 13.1#

68 4.2 5.5 8.3#



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: 105.698 ng

RT: 9.18 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BG042292.D

Acq: 17 Aug 2019 16:06

Instrument :

BNA\_G

ClientSampleId :

REACTOR-3-C1-C4-(3)

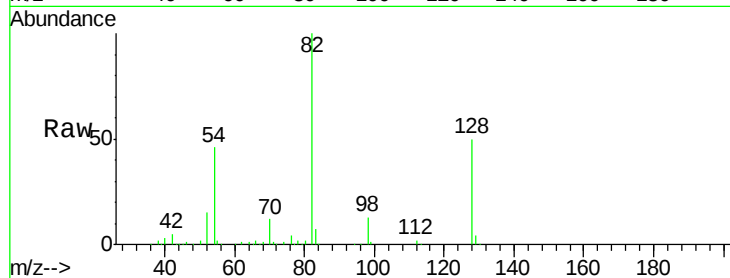
Tot Ion: 82 Resp: 350382

Ion Ratio Lower Upper

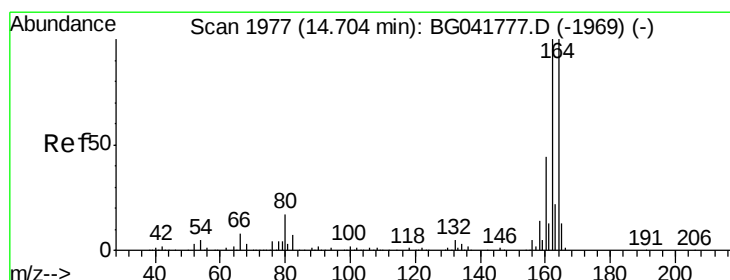
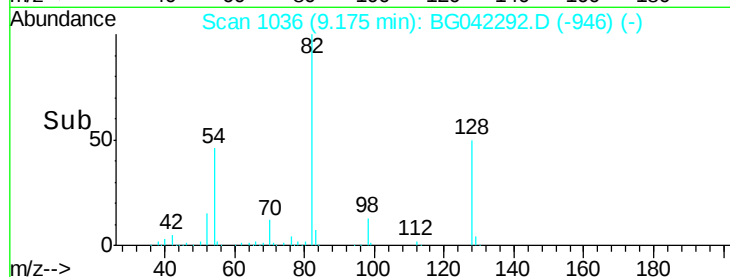
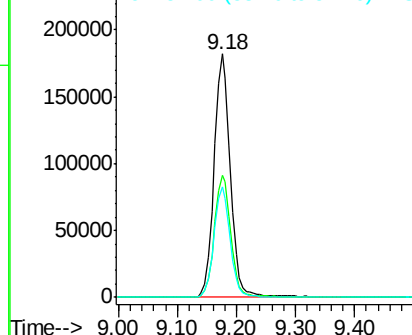
82 100

128 50.0 35.1 52.7

54 45.6 48.7 73.1#



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: 14.67 min Scan# 1971

Delta R.T. 0.00 min

Lab File: BG042292.D

Acq: 17 Aug 2019 16:06

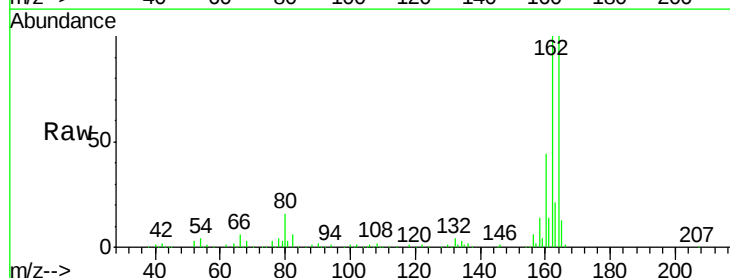
Tgt Ion:164 Resp: 168839

Ion Ratio Lower Upper

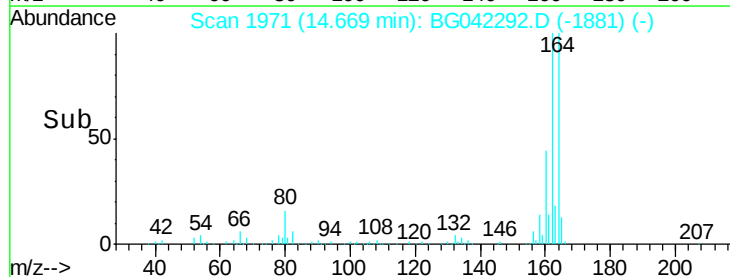
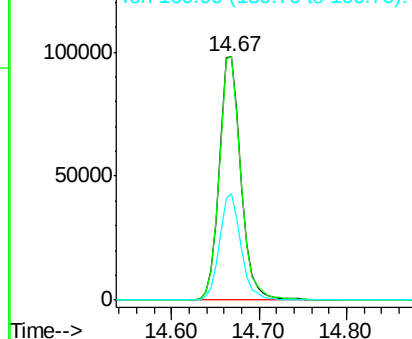
164 100

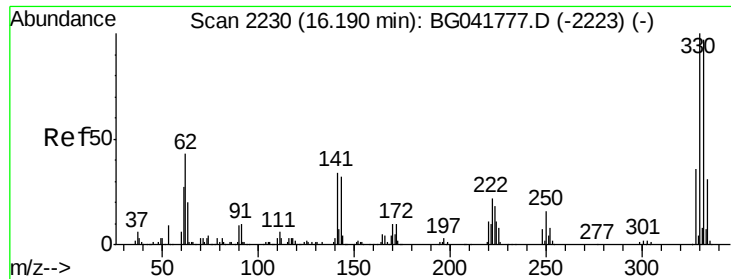
162 99.9 79.6 119.4

160 43.8 35.4 53.0



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

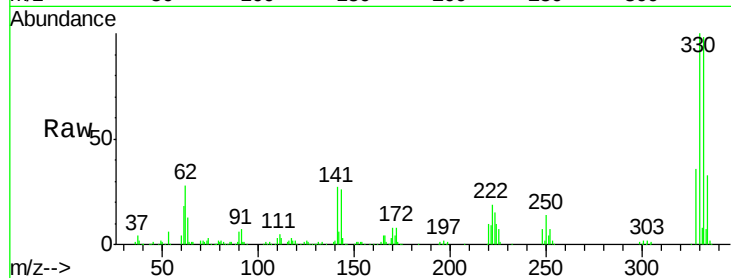




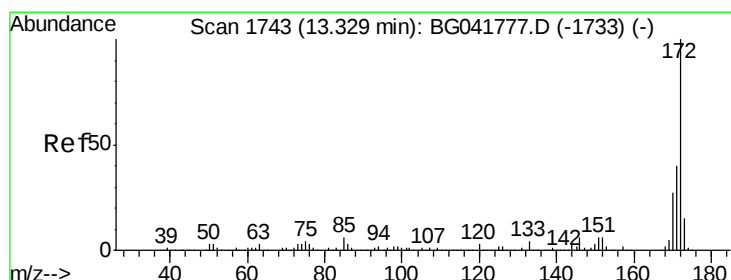
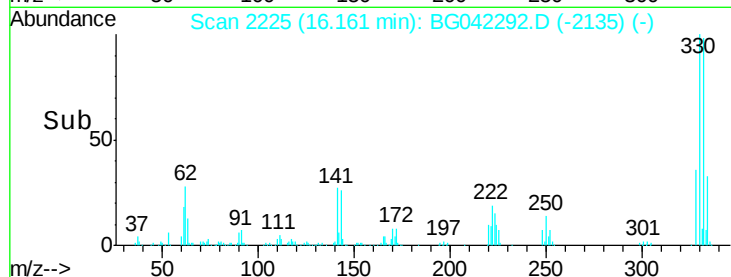
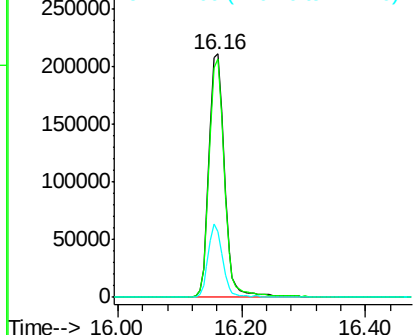
#42  
 2,4,6-Tribromophenol  
 Concen: 190.779 ng  
 RT: 16.16 min Scan# 2225  
 Delta R.T. 0.00 min  
 Lab File: BG042292.D  
 Acq: 17 Aug 2019 16:06

Instrument :  
 BNA\_G  
 ClientSampleId :  
 REACTOR-3-C1-C4-(3)

Tot Ion:330 Resp: 365872  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 77.4 116.0  
 141 28.2 31.9 47.9#

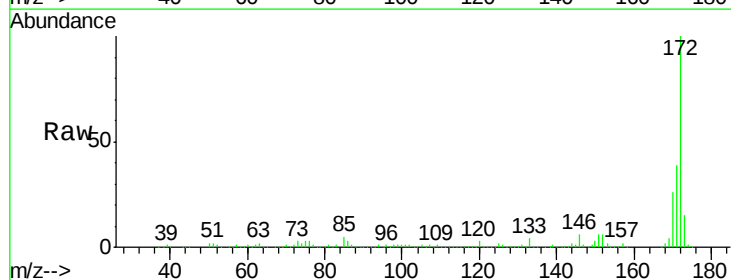


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

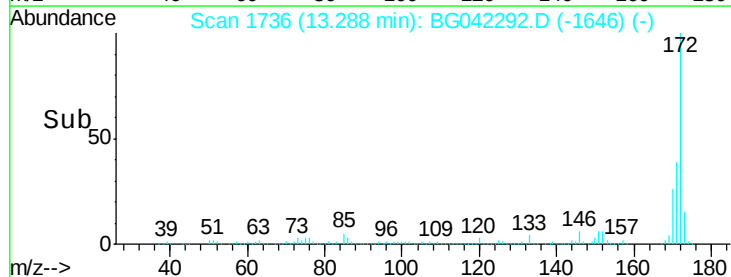
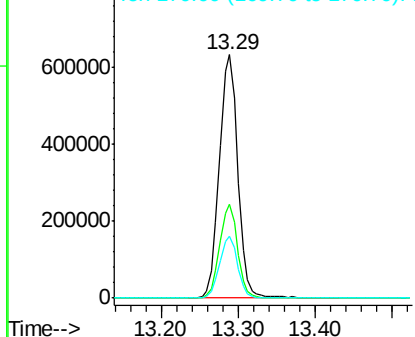


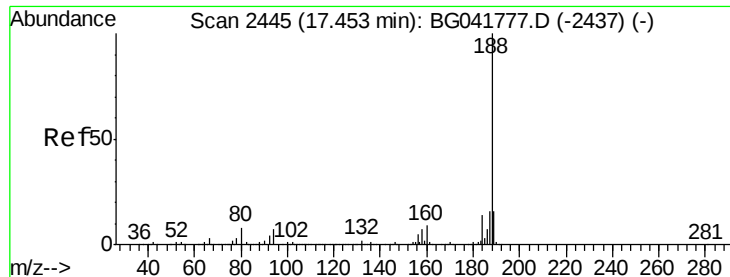
#45  
 2-Fluorobiphenyl  
 Concen: 109.697 ng  
 RT: 13.29 min Scan# 1736  
 Delta R.T. 0.00 min  
 Lab File: BG042292.D  
 Acq: 17 Aug 2019 16:06

Tgt Ion:172 Resp: 1050120  
 Ion Ratio Lower Upper  
 172 100  
 171 38.6 35.0 52.4  
 170 25.5 23.5 35.3



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: 17.42 min Scan# 2439

Delta R.T. 0.00 min

Lab File: BG042292.D

Acq: 17 Aug 2019 16:06

Instrument :

BNA\_G

ClientSampleId :

REACTOR-3-C1-C4-(3)

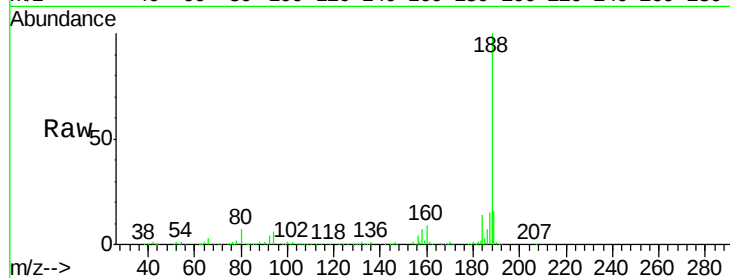
Tot Ion:188 Resp: 412658

Ion Ratio Lower Upper

188 100

94 6.2 6.9 10.3#

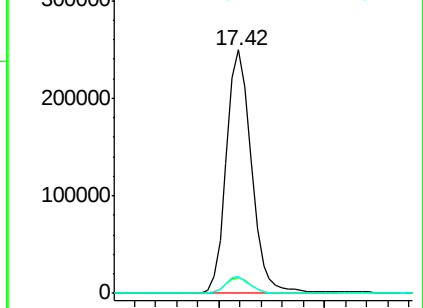
80 6.8 8.0 12.0#



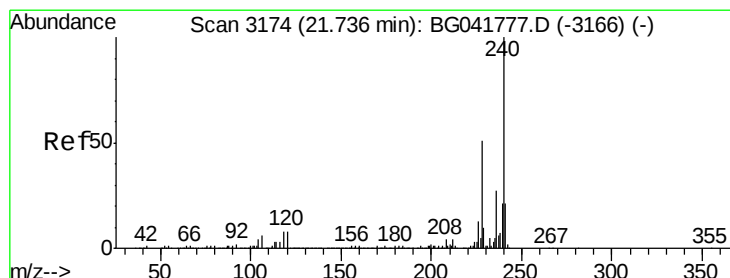
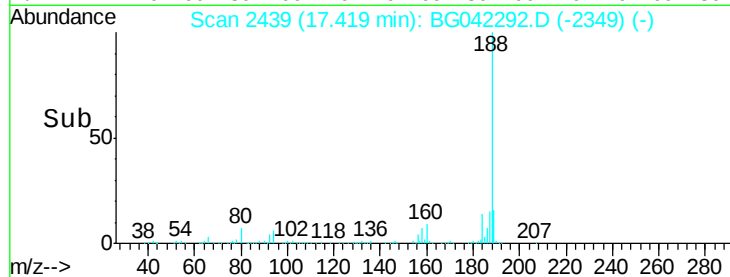
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



Time-->



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.70 min Scan# 3167

Delta R.T. -0.01 min

Lab File: BG042292.D

Acq: 17 Aug 2019 16:06

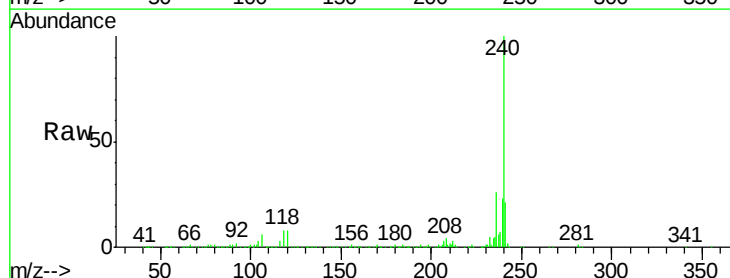
Tgt Ion:240 Resp: 475603

Ion Ratio Lower Upper

240 100

120 7.7 8.0 12.0#

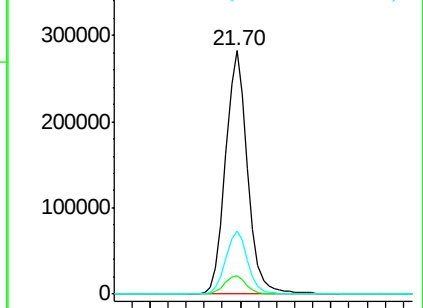
236 26.0 22.6 33.8



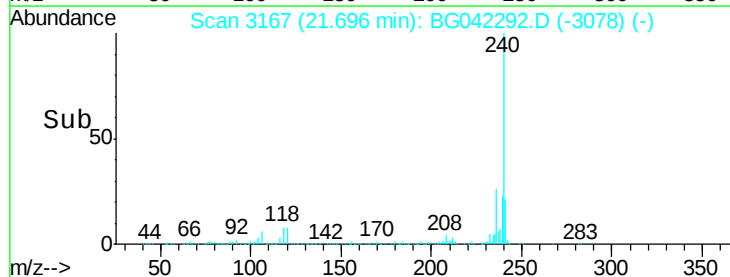
Abundance Ion 240.00 (239.70 to 240.70): E

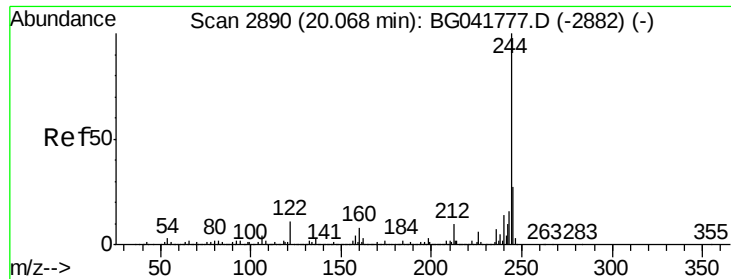
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





#79

Terphenyl-d14

Concen: 99.794 ng

RT: 20.03 min Scan# 2884

Delta R.T. 0.00 min

Lab File: BG042292.D

Acq: 17 Aug 2019 16:06

Instrument :

BNA\_G

ClientSampleId :

REACTOR-3-C1-C4-(3)

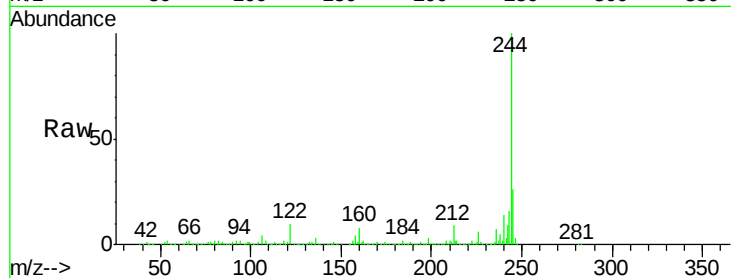
Tot Ion:244 Resp: 2074168

Ion Ratio Lower Upper

244 100

212 9.1 9.7 14.5#

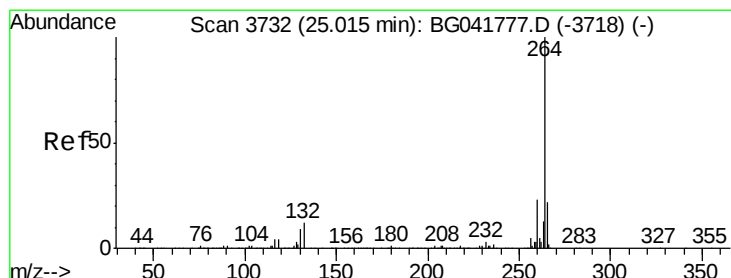
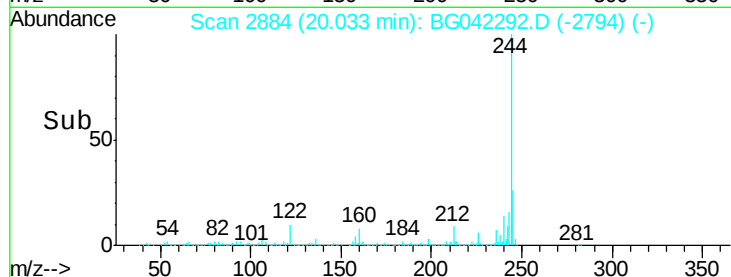
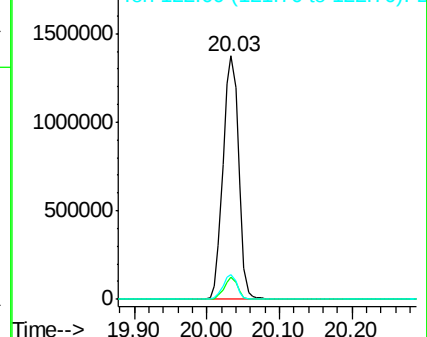
122 10.4 12.5 18.7#



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

Perylene-d12

Concen: 20.000 ng

RT: 24.94 min Scan# 3719

Delta R.T. -0.01 min

Lab File: BG042292.D

Acq: 17 Aug 2019 16:06

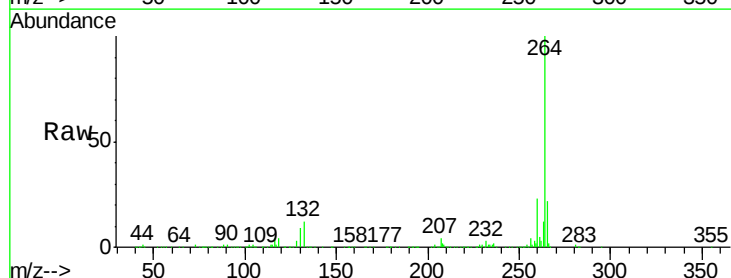
Tgt Ion:264 Resp: 546523

Ion Ratio Lower Upper

264 100

260 23.2 19.5 29.3

265 22.2 18.0 27.0



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

