

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061719\  
 Data File : BG041293.D  
 Acq On : 18 Jun 2019 5:10  
 Operator : HP/JU  
 Sample : K3340-01  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 18 07:48:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 17 14:58:02 2019  
 Response via : Initial Calibration

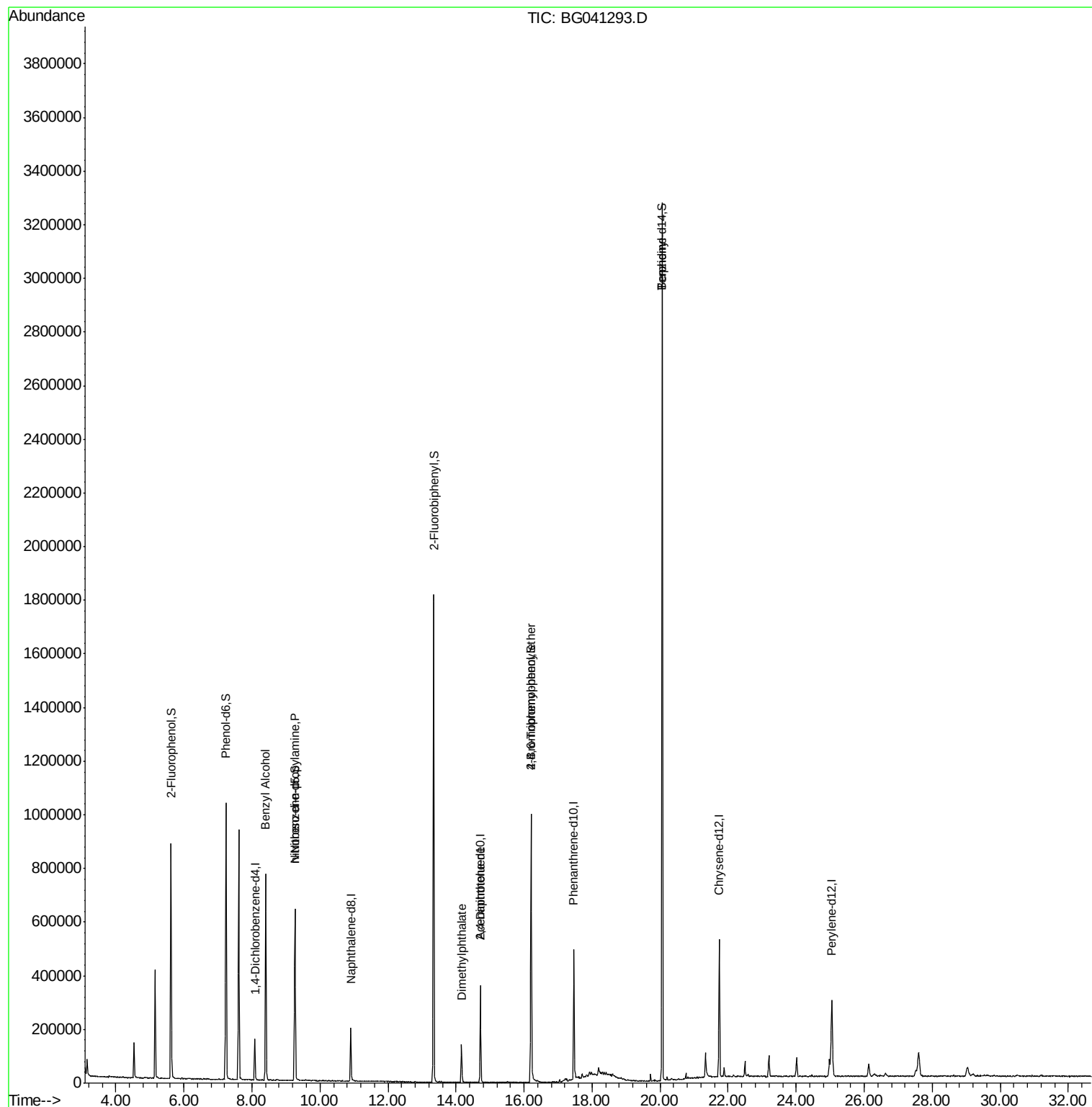
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.08  | 152  | 42322    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.90 | 136  | 165761   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.72 | 164  | 120313   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.46 | 188  | 300733   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.74 | 240  | 323852   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.05 | 264  | 338431   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 325466   | 141.30 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.24  | 99   | 505726   | 151.47 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.26  | 82   | 387271   | 98.26  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.21 | 330  | 203745   | 110.31 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.34 | 172  | 909974   | 102.80 | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.06 | 244  | 1570193  | 96.09  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.41  | 79   | 7028     | 2.197  | ng    | # 52     |
| 19) n-Nitroso-di-n-propylamine | 9.26  | 70   | 56644    | 20.977 | ng    | # 80     |
| 50) Dimethylphthalate          | 14.16 | 163  | 100186   | 9.359  | ng    | # 99     |
| 57) 2,4-Dinitrotoluene         | 14.72 | 165  | 15224    | 4.614  | ng    | # 22     |
| 67) 4-Bromophenyl-phenylether  | 16.20 | 248  | 14824    | 3.812  | ng    | # 1      |
| 77) Benzidine                  | 20.06 | 184  | 28989    | 3.701  | ng    | # 90     |

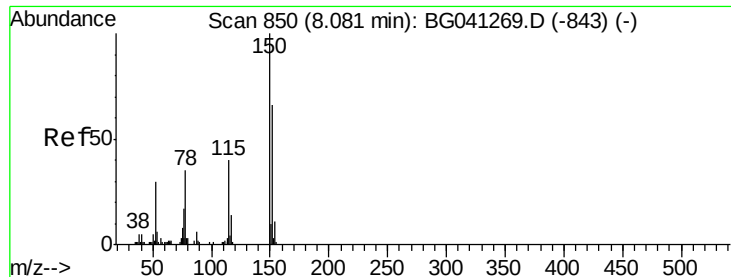
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061719\  
Data File : BG041293.D  
Acq On : 18 Jun 2019 5:10  
Operator : HP/JU  
Sample : K3340-01  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jun 18 07:48:12 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 17 14:58:02 2019  
Response via : Initial Calibration



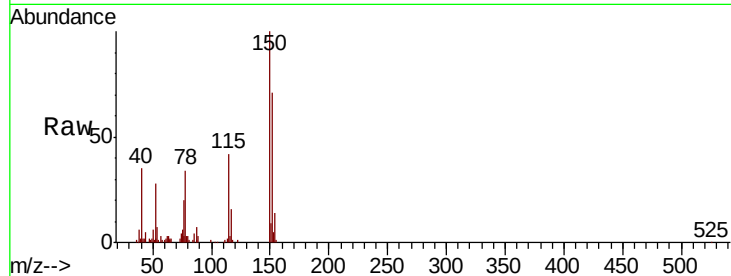


#1

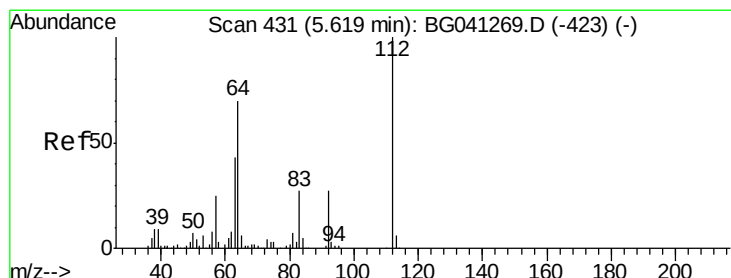
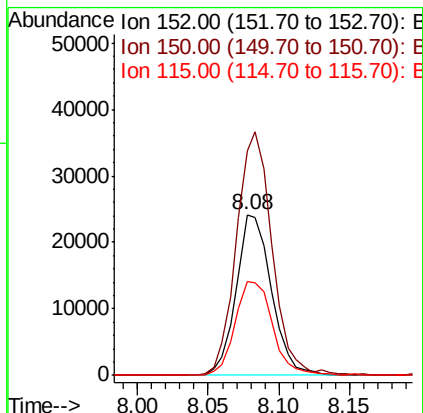
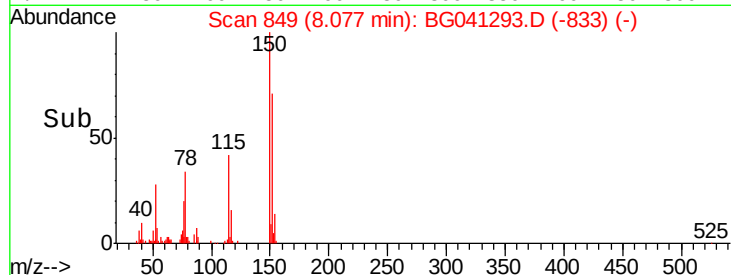
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.08 min Scan# 849  
Delta R.T. -0.00 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 42322  
Ion Ratio Lower Upper  
152 100  
150 140.0 120.6 181.0  
115 58.1 47.9 71.9



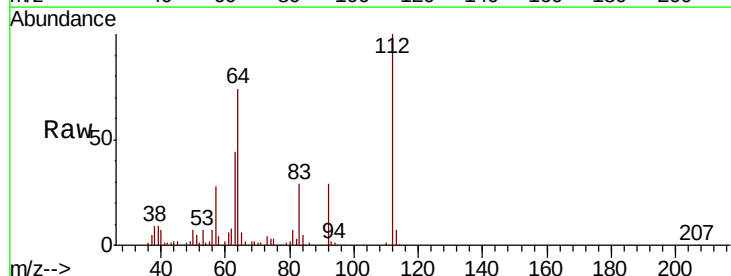
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



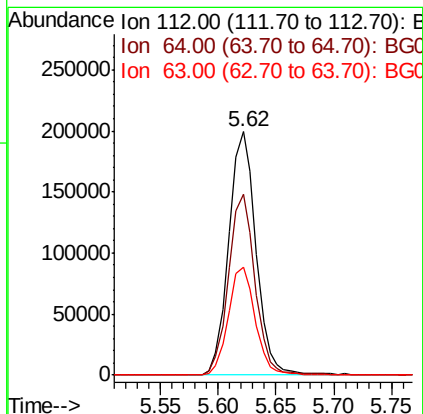
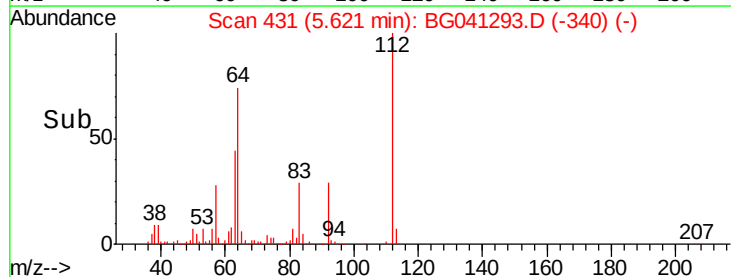
#5

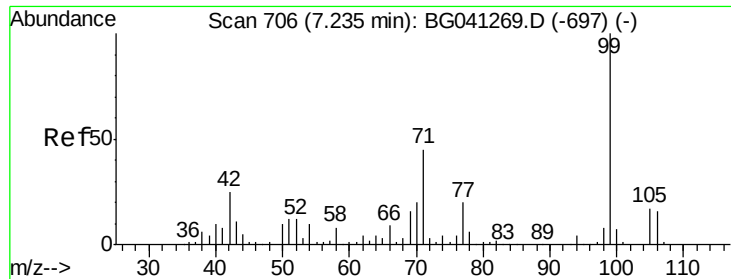
2-Fluorophenol  
Concen: 141.301 ng  
RT: 5.62 min Scan# 431  
Delta R.T. 0.00 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

Tgt Ion:112 Resp: 325466  
Ion Ratio Lower Upper  
112 100  
64 74.3 55.9 83.9  
63 44.4 34.6 51.8



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG  
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 151.473 ng

RT: 7.24 min Scan# 706

Delta R.T. 0.00 min

Lab File: BG041293.D

Acq: 18 Jun 2019 5:10

Instrument :

BNA\_G

ClientSampleId :

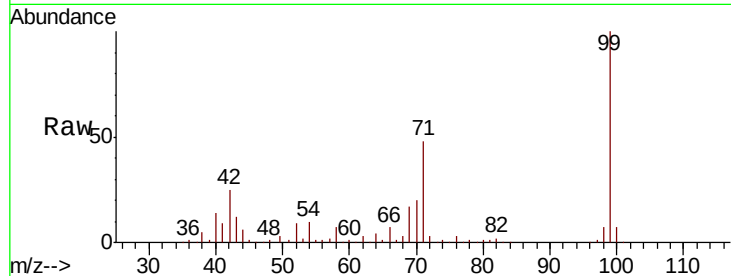
Tot Ion: 99 Resp: 505726

Ion Ratio Lower Upper

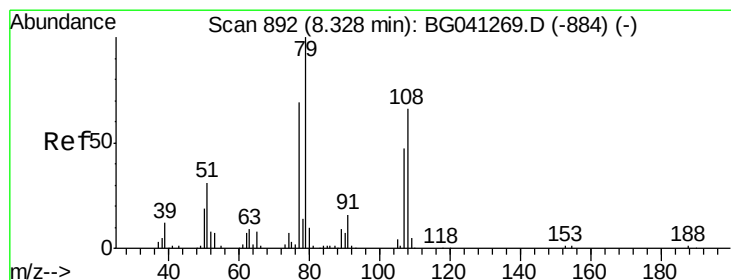
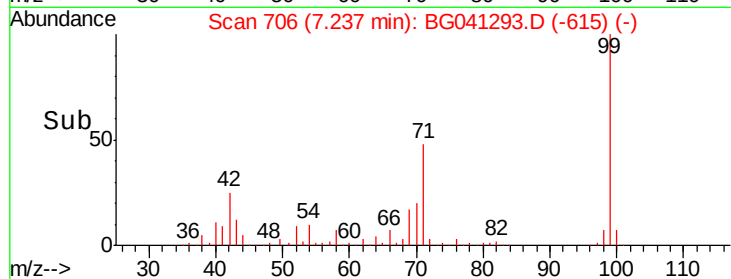
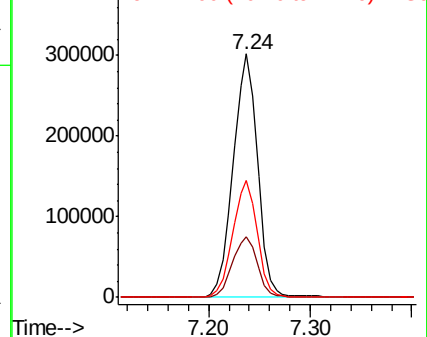
99 100

42 25.0 19.9 29.9

71 48.0 36.4 54.6



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



#15

Benzyl Alcohol

Concen: 2.197 ng

RT: 8.41 min Scan# 905

Delta R.T. 0.08 min

Lab File: BG041293.D

Acq: 18 Jun 2019 5:10

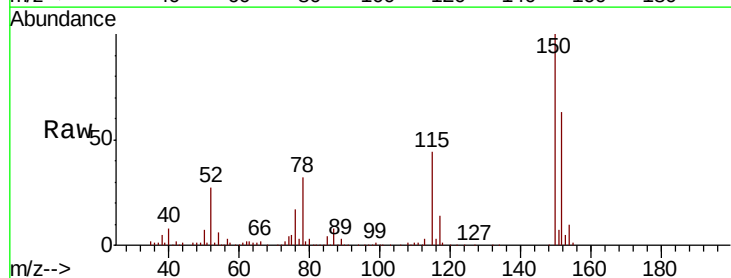
Tgt Ion: 79 Resp: 7028

Ion Ratio Lower Upper

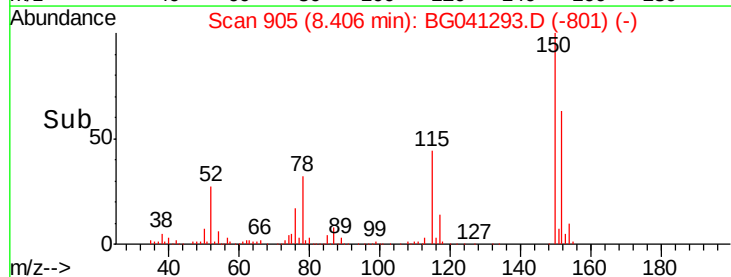
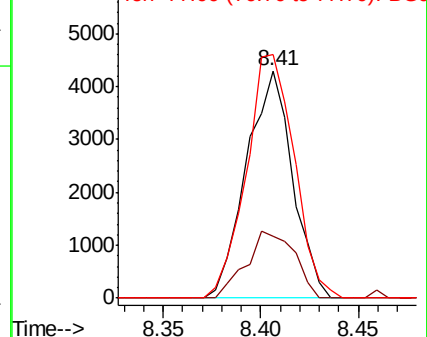
79 100

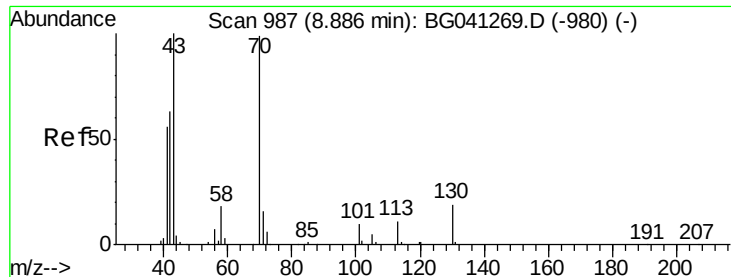
108 27.1 52.7 79.1#

77 107.0 55.2 82.8#



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

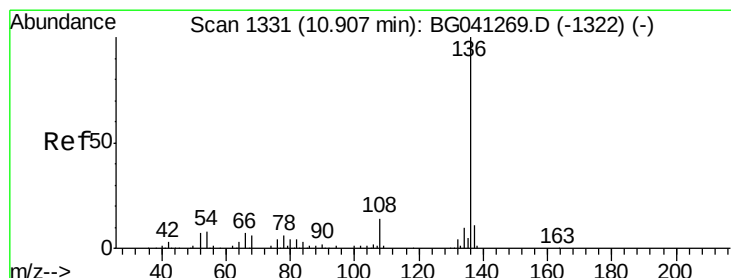
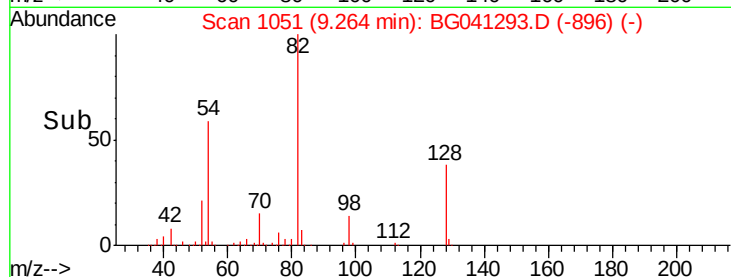
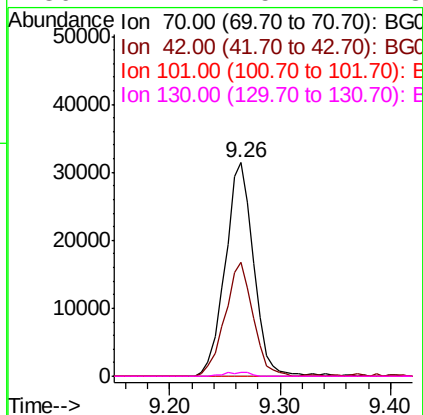
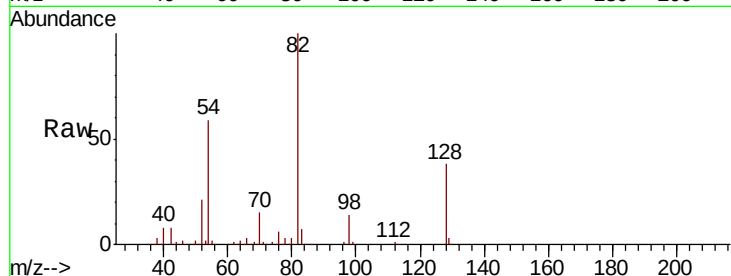




#19  
n-Nitroso-di-n-propylamine  
Concen: 20.977 ng  
RT: 9.26 min Scan# 1051  
Delta R.T. 0.38 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

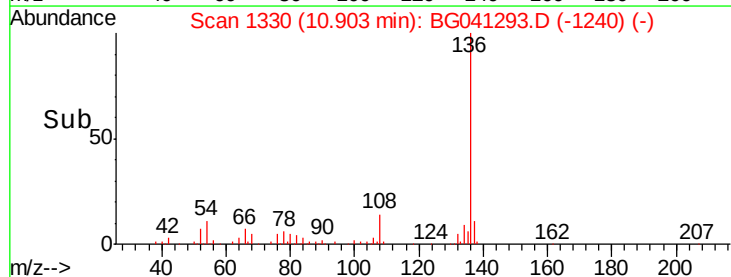
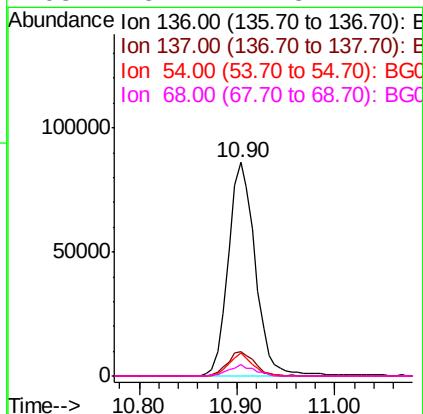
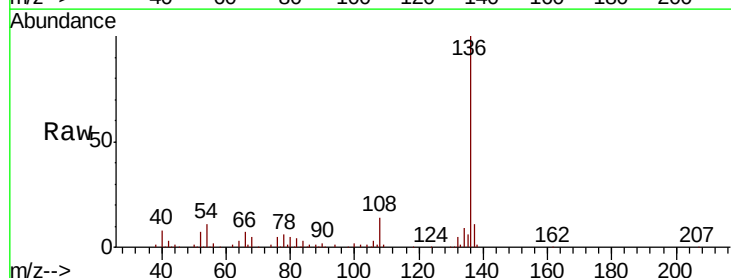
Instrument :  
BNA\_G  
ClientSampled :

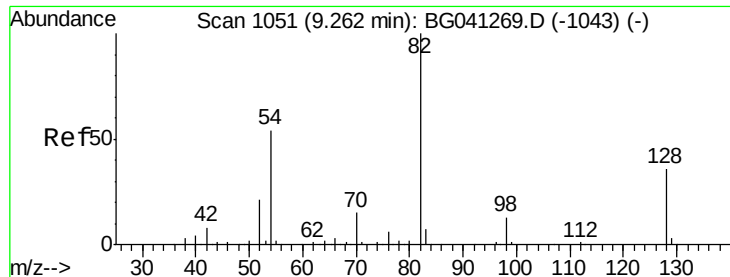
Tot Ion: 70 Resp: 56644  
Ion Ratio Lower Upper  
70 100  
42 53.3 51.4 77.2  
101 0.0 8.2 12.2#  
130 1.7 15.2 22.8#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.90 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

Tgt Ion: 136 Resp: 165761  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.8 13.2  
54 10.5 6.4 9.6#  
68 5.1 4.8 7.2

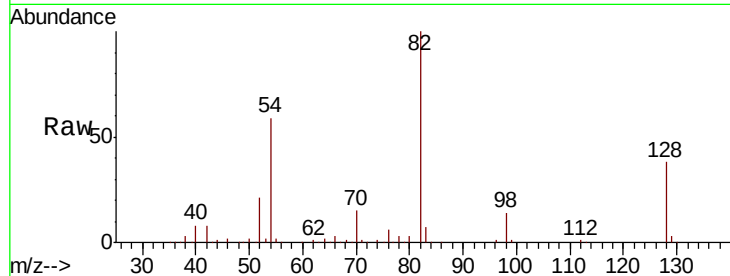




#23  
Nitrobenzene-d5  
Concen: 98.257 ng  
RT: 9.26 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion   | 82   | Resp  | 387271 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 37.9 | 29.2  | 43.8   |
| 54        | 59.4 | 43.4  | 65.0   |

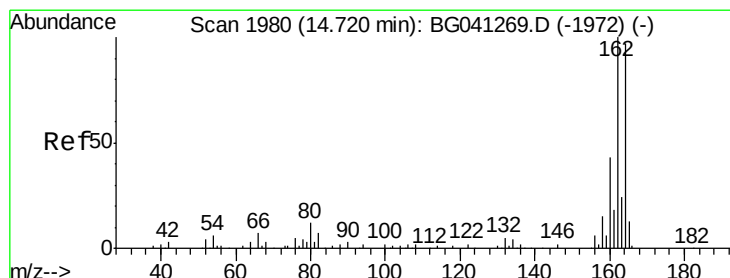
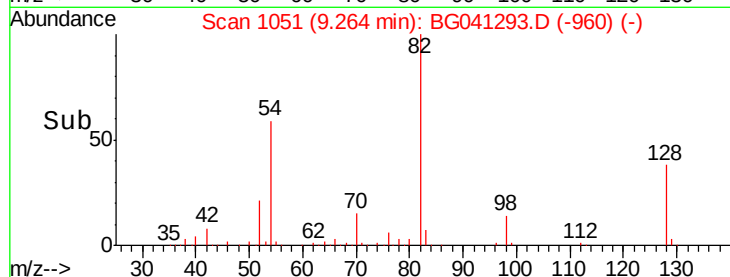
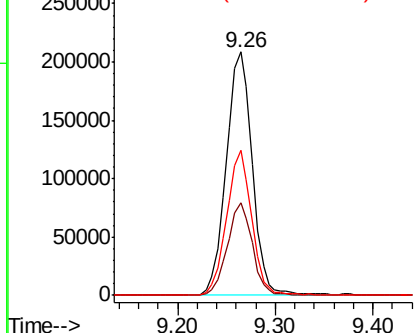


Abundance

Ion 82.00 (81.70 to 82.70): BGC

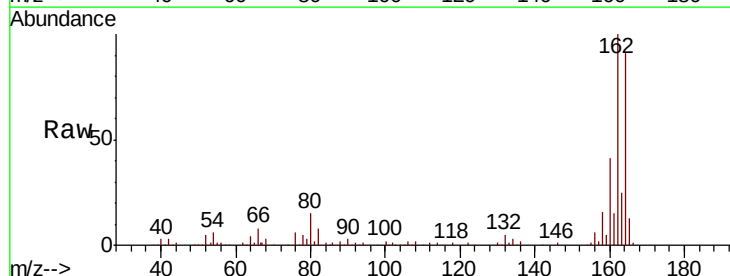
Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.72 min Scan# 1979  
Delta R.T. -0.00 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

| Tgt Ion   | 164   | Resp  | 120313 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 109.9 | 82.8  | 124.2  |
| 160       | 45.6  | 35.8  | 53.8   |

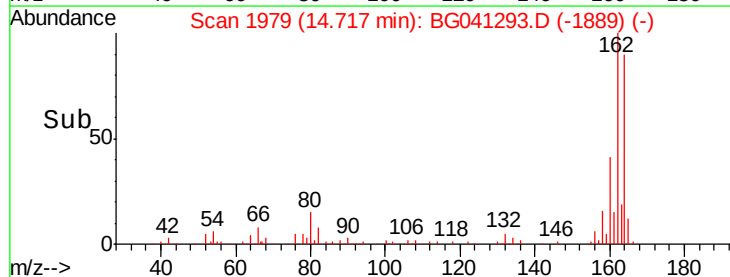
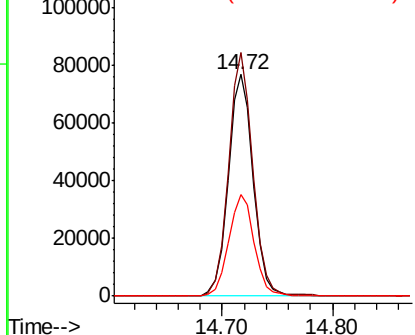


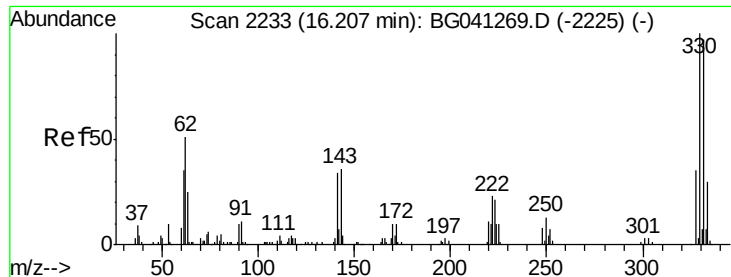
Abundance

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: 110.307 ng

RT: 16.21 min Scan# 2233

Delta R.T. 0.00 min

Lab File: BG041293.D

Acq: 18 Jun 2019 5:10

Instrument :

BNA\_G

ClientSampleId :

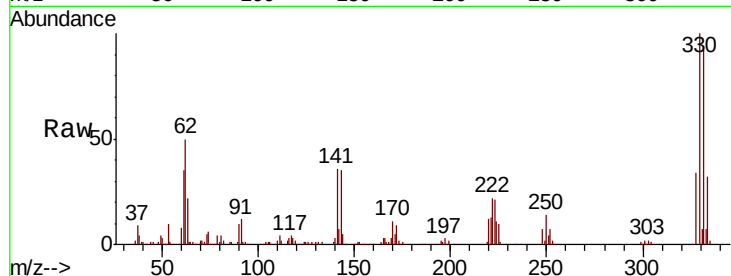
Tot Ion:330 Resp: 203745

Ion Ratio Lower Upper

330 100

332 95.5 75.5 113.3

141 37.5 29.0 43.4

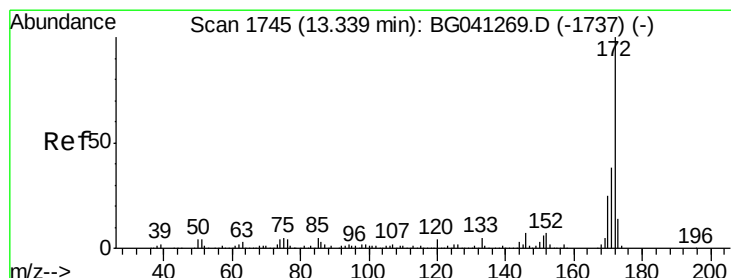
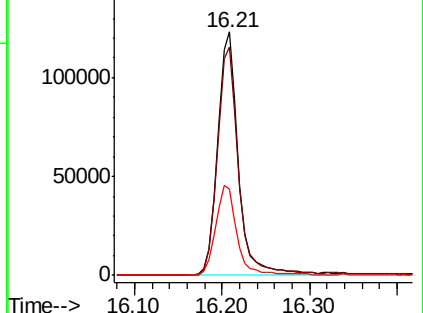
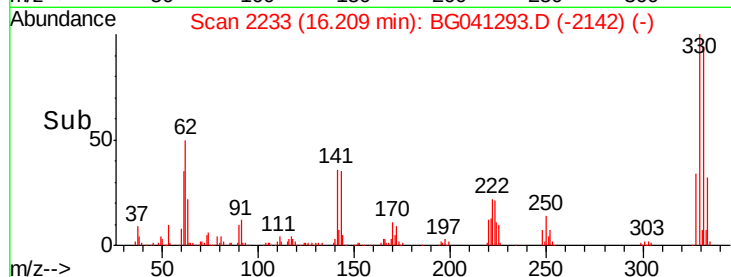


Abundance

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: 102.798 ng

RT: 13.34 min Scan# 1745

Delta R.T. 0.00 min

Lab File: BG041293.D

Acq: 18 Jun 2019 5:10

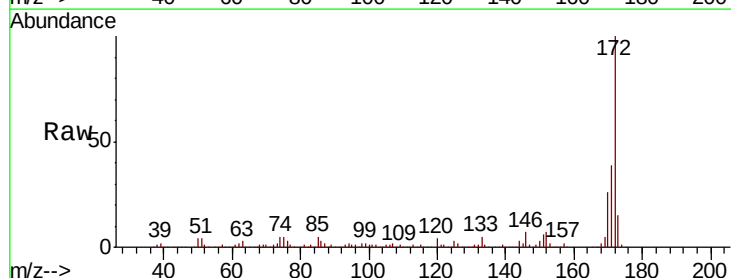
Tgt Ion:172 Resp: 909974

Ion Ratio Lower Upper

172 100

171 38.5 30.0 45.0

170 26.0 19.8 29.6

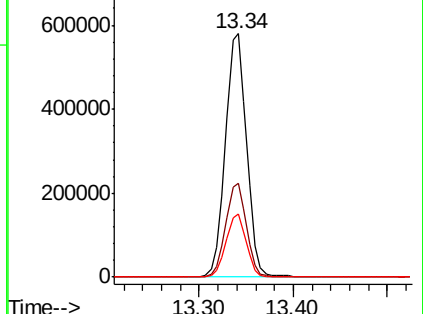
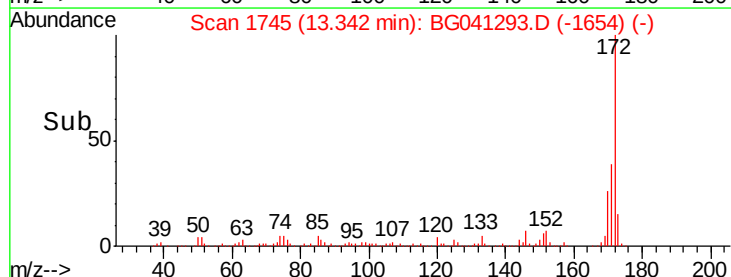


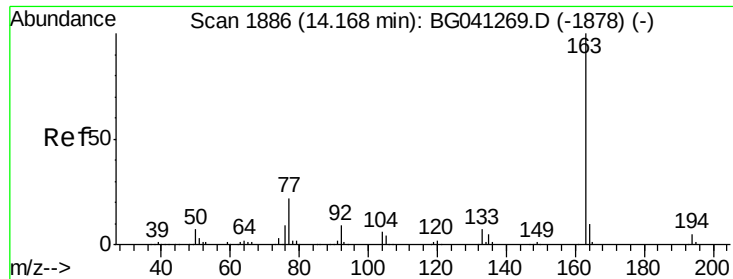
Abundance

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

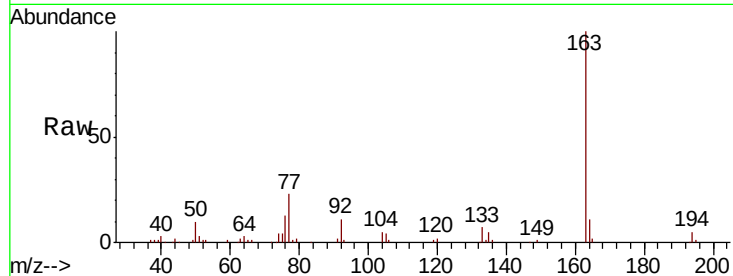




#50  
Dimethylphthalate  
Concen: 9.359 ng  
RT: 14.16 min Scan# 1884  
Delta R.T. -0.01 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.1   | 3.9   | 5.9   |
| 164     | 11.0  | 8.3   | 12.5  |

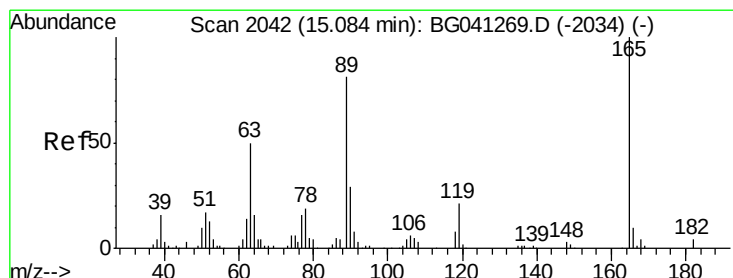
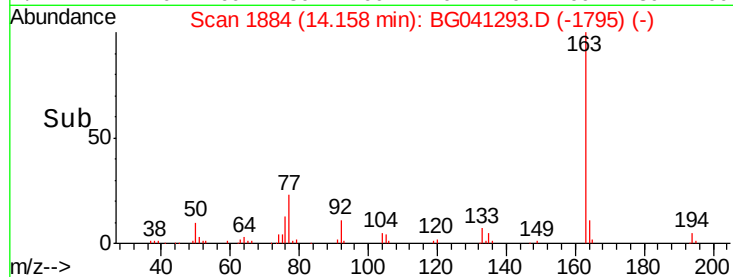
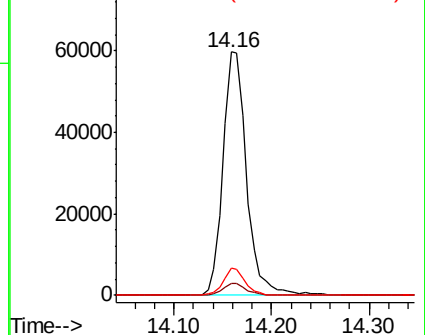


Abundance

Ion 163.00 (162.70 to 163.70): E

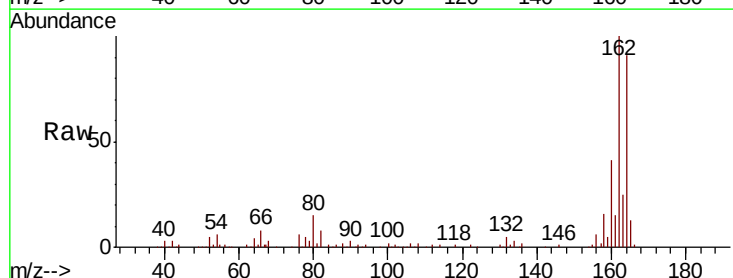
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57  
2,4-Dinitrotoluene  
Concen: 4.614 ng  
RT: 14.72 min Scan# 1979  
Delta R.T. -0.37 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.0   | 40.0  | 60.0# |
| 89      | 3.7   | 64.6  | 96.8# |
| 182     | 0.0   | 2.9   | 4.3#  |



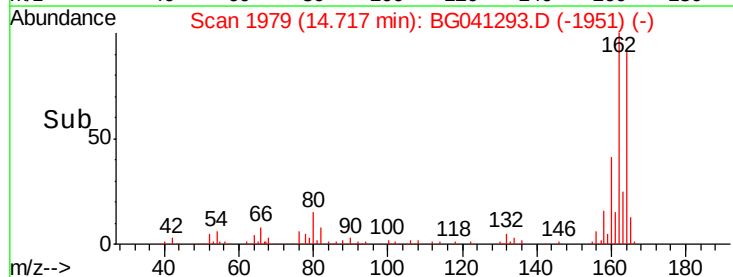
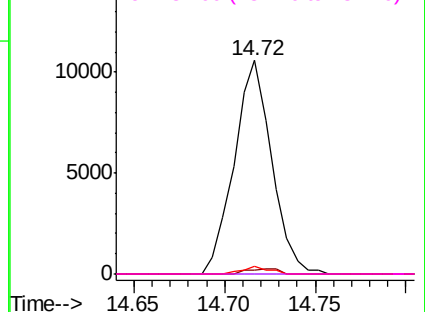
Abundance

Ion 165.00 (164.70 to 165.70): E

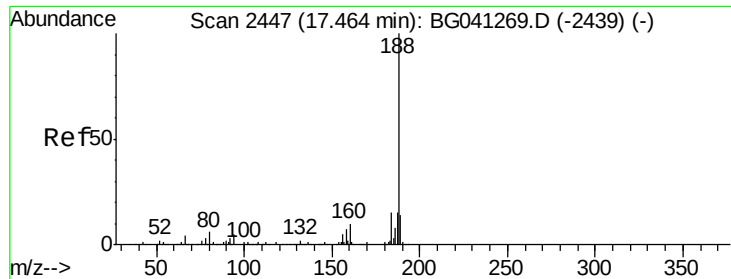
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



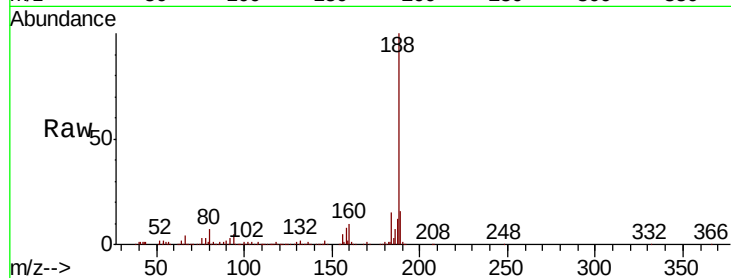




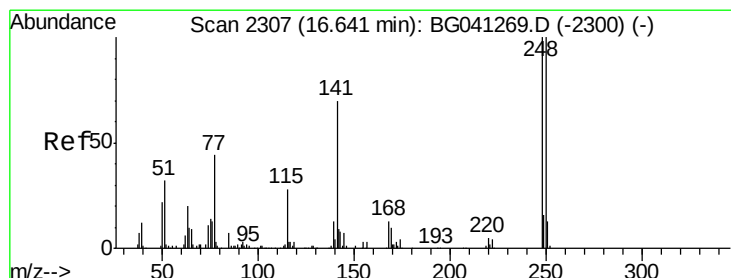
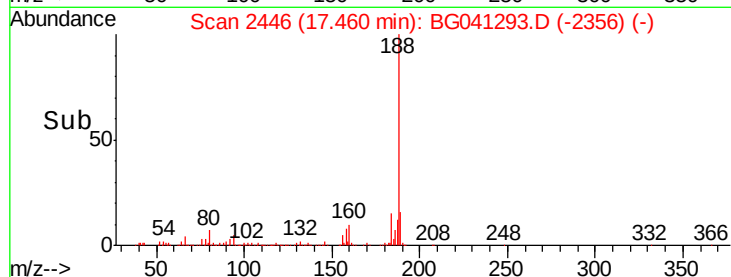
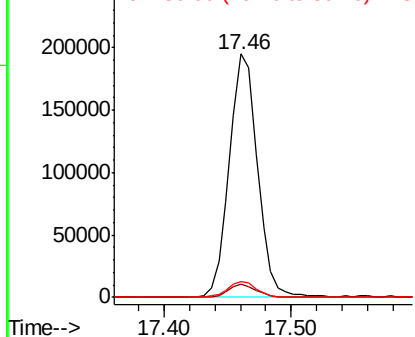
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.46 min Scan# 2446  
 Delta R.T. -0.00 min  
 Lab File: BG041293.D  
 Acq: 18 Jun 2019 5:10

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.3   | 3.6   | 5.4   |
| 80      | 6.7   | 4.8   | 7.2   |

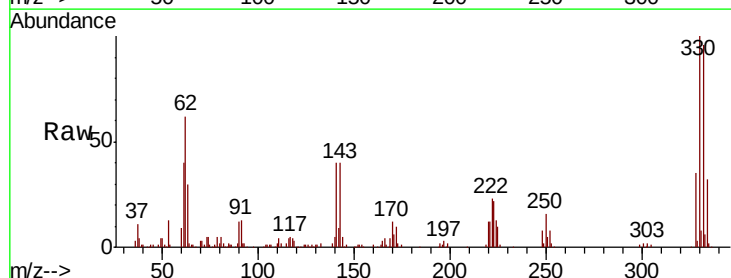


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BG  
 Ion 80.00 (79.70 to 80.70): BG

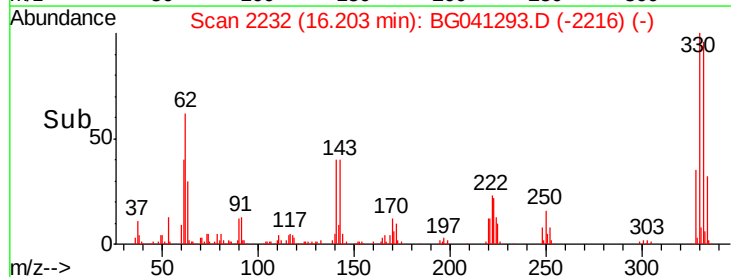
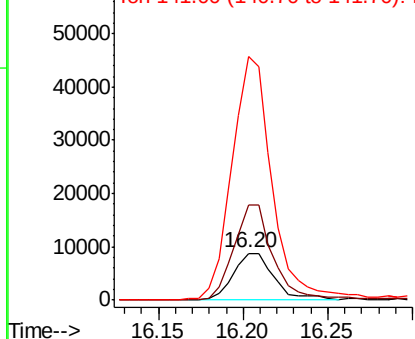


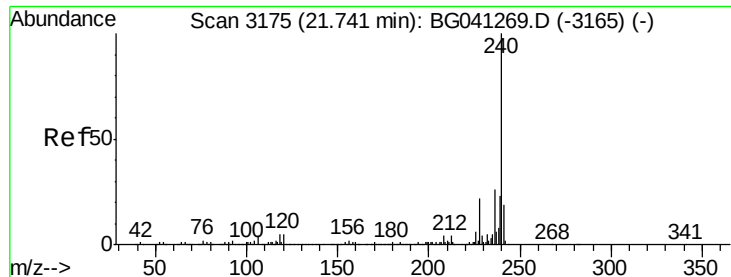
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.812 ng  
 RT: 16.20 min Scan# 2232  
 Delta R.T. -0.44 min  
 Lab File: BG041293.D  
 Acq: 18 Jun 2019 5:10

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 202.1 | 79.8  | 119.8# |
| 141     | 518.1 | 55.8  | 83.6#  |



Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

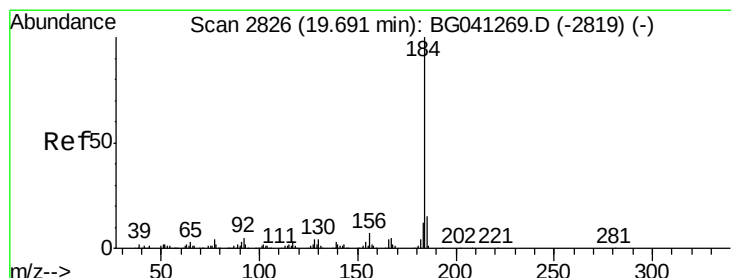
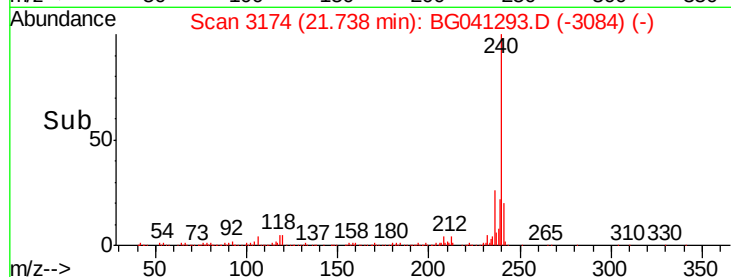
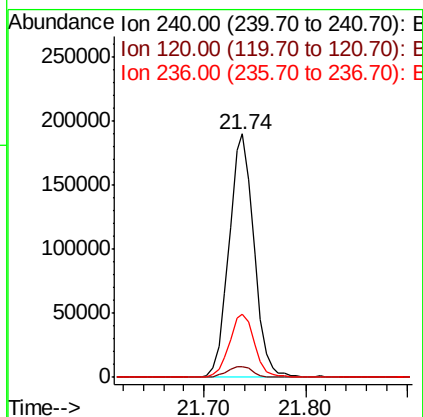
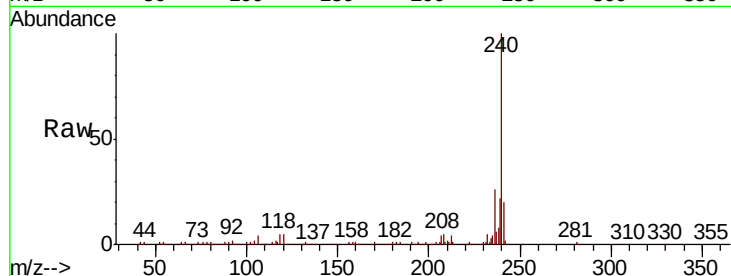




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.74 min Scan# 3174  
Delta R.T. -0.00 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

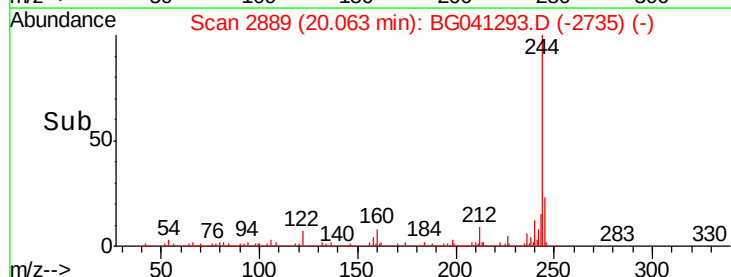
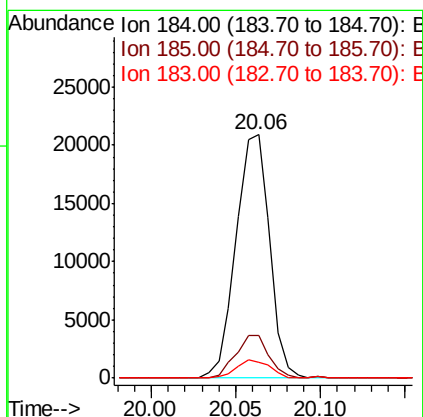
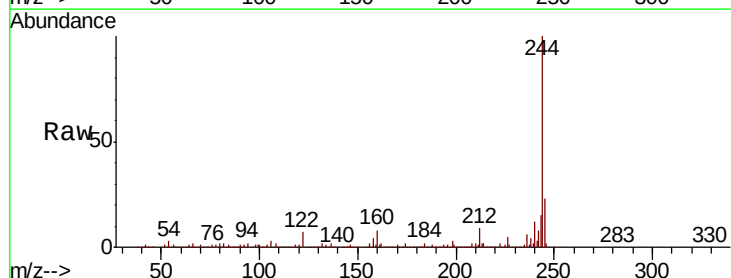
Instrument :  
BNA\_G  
ClientSampleId :

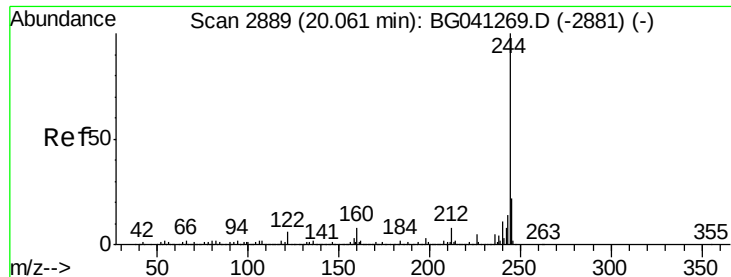
Tot Ion:240 Resp: 323852  
Ion Ratio Lower Upper  
240 100  
120 4.6 3.7 5.5  
236 25.7 21.1 31.7



#77  
Benzidine  
Concen: 3.701 ng  
RT: 20.06 min Scan# 2889  
Delta R.T. 0.37 min  
Lab File: BG041293.D  
Acq: 18 Jun 2019 5:10

Tgt Ion:184 Resp: 28989  
Ion Ratio Lower Upper  
184 100  
185 17.6 12.2 18.2  
183 6.2 9.6 14.4#





#79

Terphenyl-d14

Concen: 96.087 ng

RT: 20.06 min Scan# 2889

Delta R.T. 0.00 min

Lab File: BG041293.D

Acq: 18 Jun 2019 5:10

Instrument :

BNA\_G

ClientSampled :

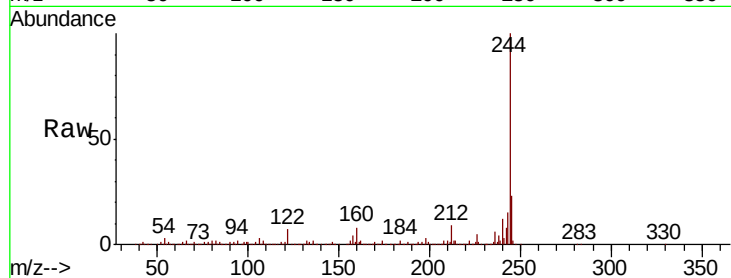
Tot Ion:244 Resp: 1570193

Ion Ratio Lower Upper

244 100

212 9.4 6.6 10.0

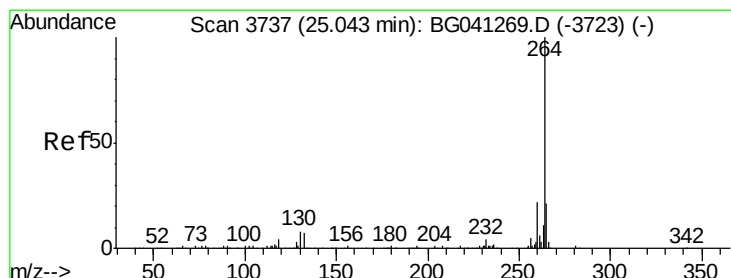
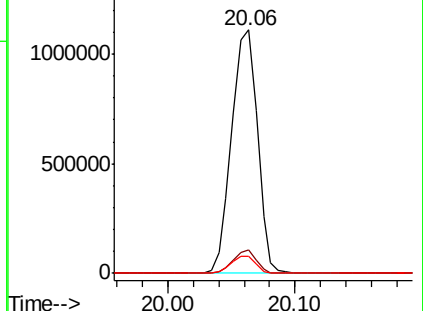
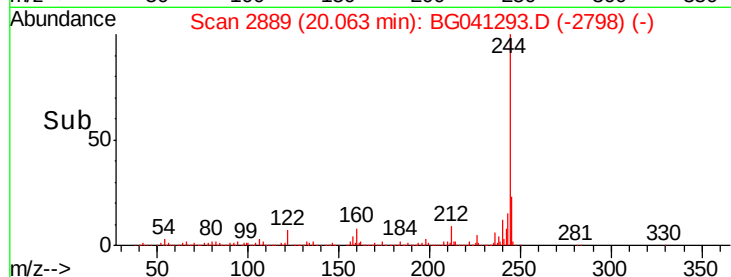
122 7.0 5.0 7.4



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: 25.05 min Scan# 3737

Delta R.T. 0.00 min

Lab File: BG041293.D

Acq: 18 Jun 2019 5:10

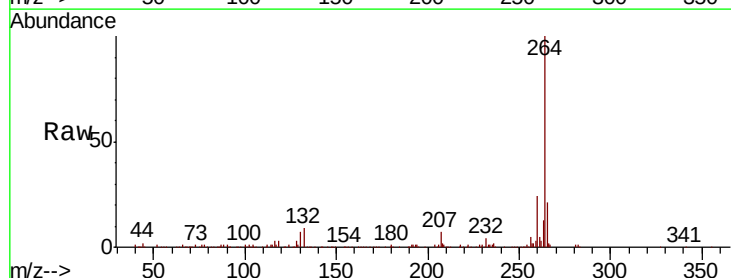
Tgt Ion:264 Resp: 338431

Ion Ratio Lower Upper

264 100

260 23.9 17.4 26.2

265 20.6 17.2 25.8



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

