

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG083018\  
 Data File : BG036483.D  
 Acq On : 30 Aug 2018 18:10  
 Operator : JU/SJ  
 Sample : J4282-16  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 31 01:15:43 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 23 12:07:02 2018  
 Response via : Initial Calibration

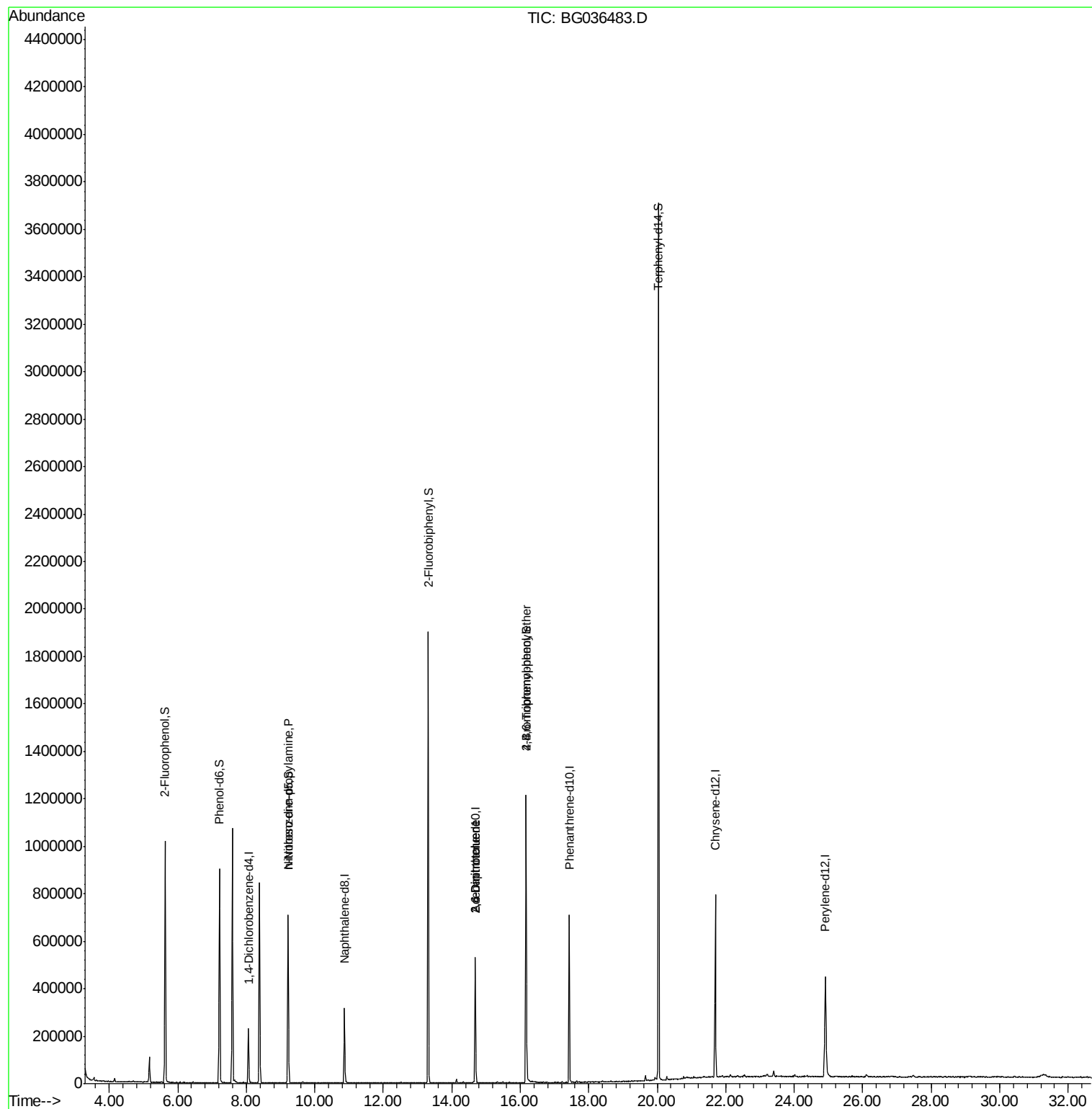
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 65523    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.87 | 136  | 265094   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 14.69 | 164  | 169497   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.43 | 188  | 450174   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.70 | 240  | 480538   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 24.91 | 264  | 483555   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 419532   | 101.57 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 521126   | 88.12  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 428909   | 87.78  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.17 | 330  | 229371   | 113.41 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.31 | 172  | 1009693  | 85.06  | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.04 | 244  | 1703052  | 82.84  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 56428    | 12.767 | ng    | # 70     |
| 50) 2,6-Dinitrotoluene         | 14.69 | 165  | 21931    | 7.701  | ng    | # 22     |
| 56) 2,4-Dinitrotoluene         | 14.69 | 165  | 21931    | 5.909  | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 16.17 | 248  | 16176    | 3.069  | ng    | # 1      |

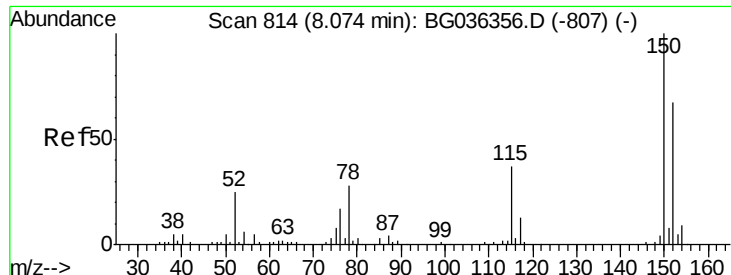
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG083018\  
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BNA\_G  
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Quant Time: Aug 31 01:15:43 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG082318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Response via : Initial Calibration



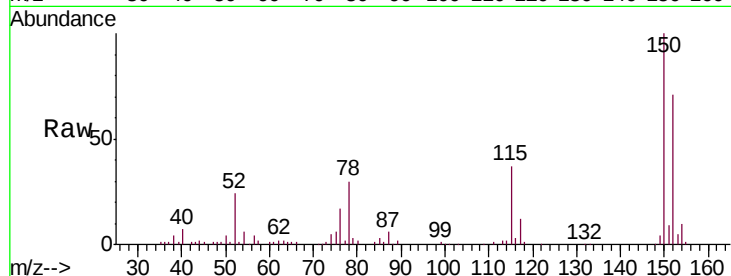


#1

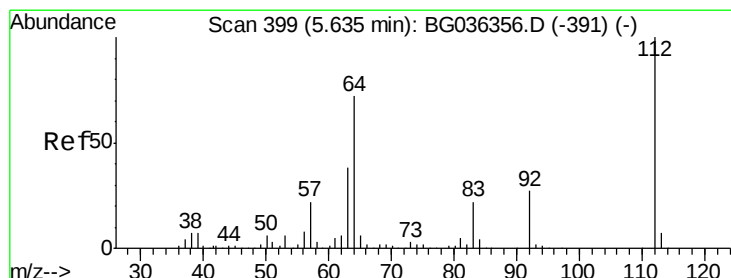
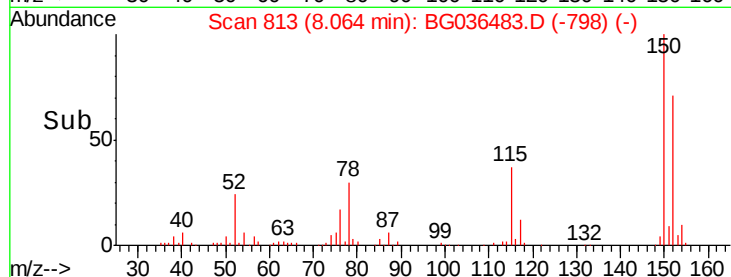
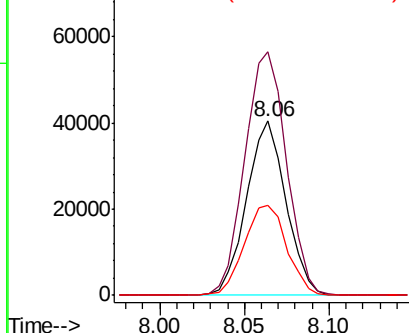
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.06 min Scan# 813  
 Delta R.T. -0.01 min  
 Lab File: BG036483.D  
 Acq: 30 Aug 2018 18:10

Instrument :  
 BNA\_G  
 ClientSampleId :

Tgt Ion:152 Resp: 65523  
 Ion Ratio Lower Upper  
 152 100  
 150 139.9 119.5 179.3  
 115 52.0 44.5 66.7



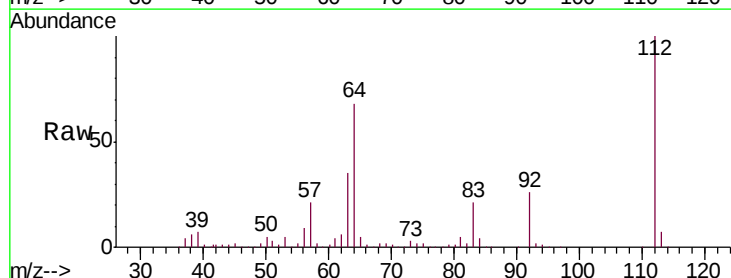
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



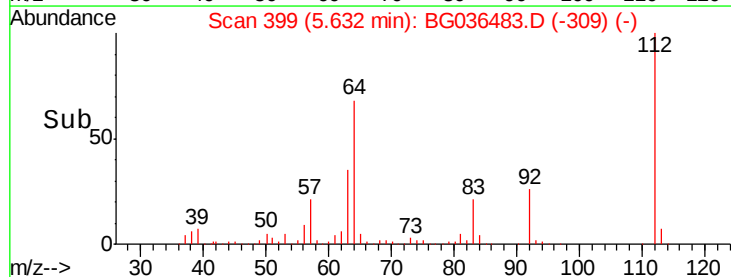
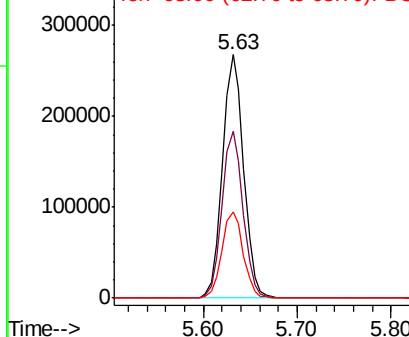
#5

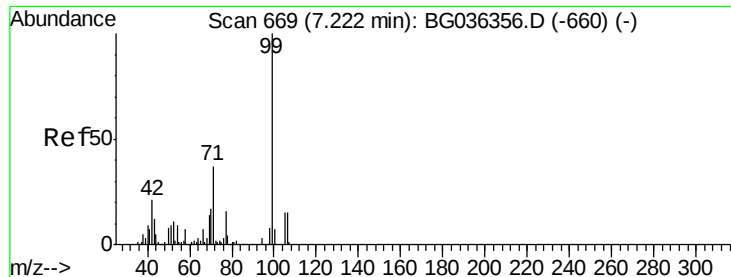
2-Fluorophenol  
 Concen: 101.568 ng  
 RT: 5.63 min Scan# 399  
 Delta R.T. -0.00 min  
 Lab File: BG036483.D  
 Acq: 30 Aug 2018 18:10

Tgt Ion:112 Resp: 419532  
 Ion Ratio Lower Upper  
 112 100  
 64 68.3 57.2 85.8  
 63 35.5 30.8 46.2



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: 88.118 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.00 min

Lab File: BG036483.D

Acq: 30 Aug 2018 18:10

Instrument :

BNA\_G

ClientSampleId :

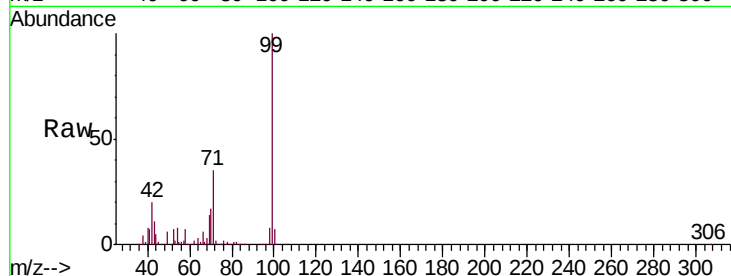
Tgt Ion: 99 Resp: 521126

Ion Ratio Lower Upper

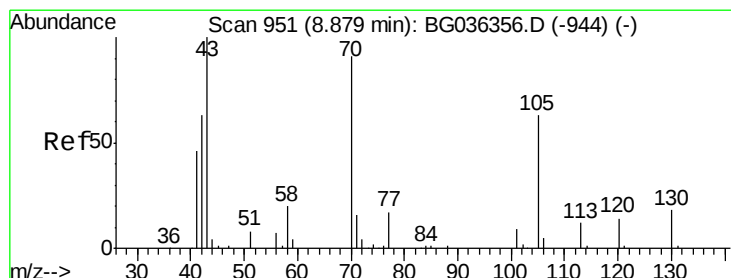
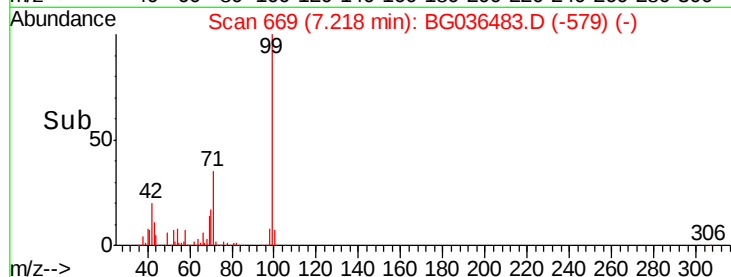
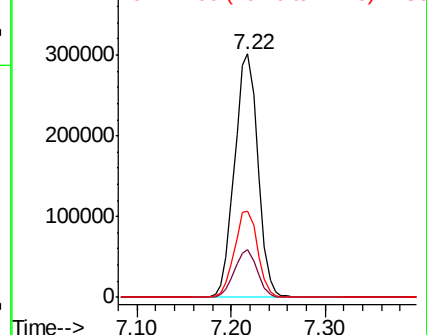
99 100

42 19.8 16.5 24.7

71 35.4 29.4 44.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.767 ng

RT: 9.22 min Scan# 1010

Delta R.T. 0.34 min

Lab File: BG036483.D

Acq: 30 Aug 2018 18:10

Tgt Ion: 70 Resp: 56428

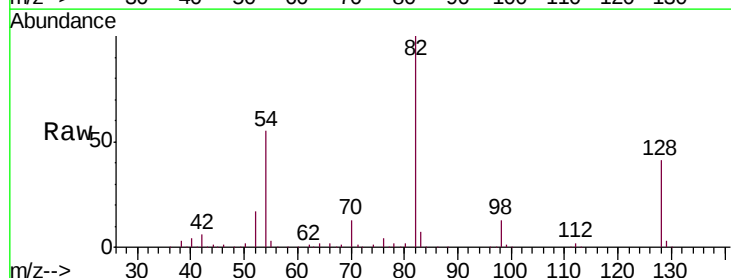
Ion Ratio Lower Upper

70 100

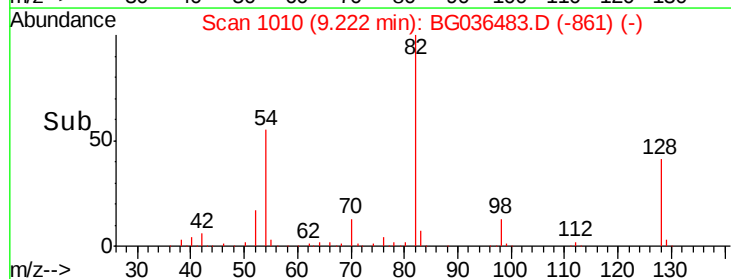
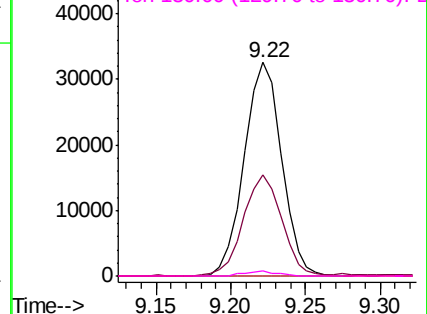
42 47.4 56.2 84.4#

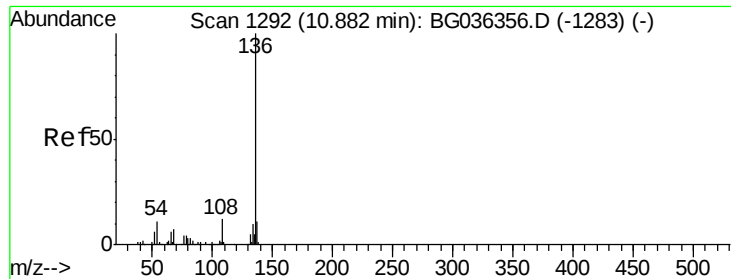
101 0.0 7.8 11.6#

130 2.3 16.2 24.2#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

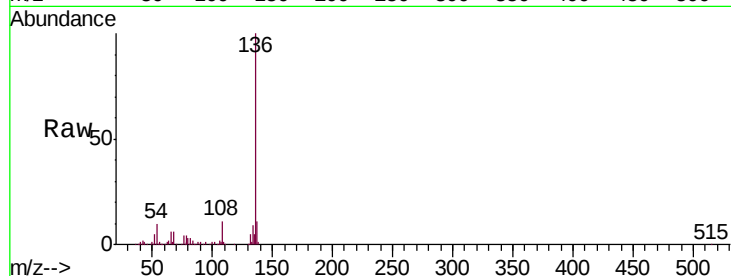




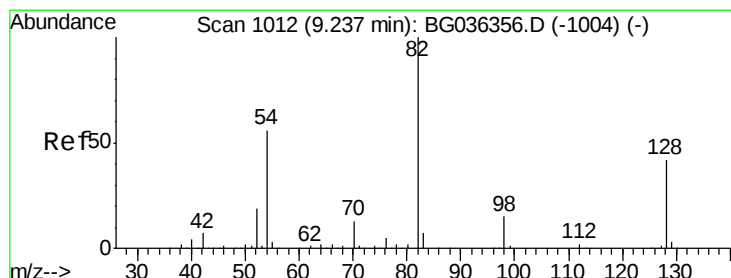
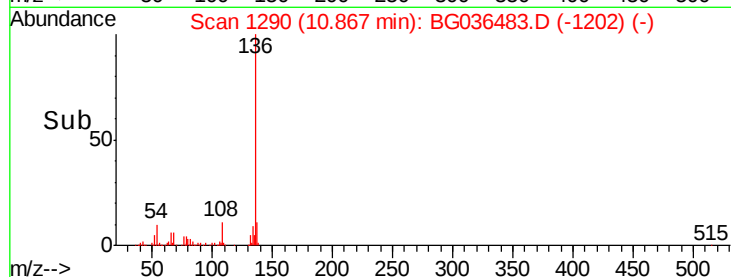
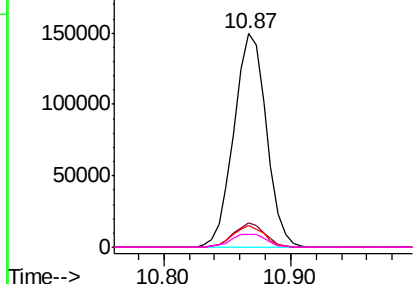
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1290  
Delta R.T. -0.02 min  
Lab File: BG036483.D  
Acq: 30 Aug 2018 18:10

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 265094 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.5  | 8.8   | 13.2   |
| 54       | 10.0  | 9.2   | 13.8   |
| 68       | 6.2   | 5.8   | 8.6    |

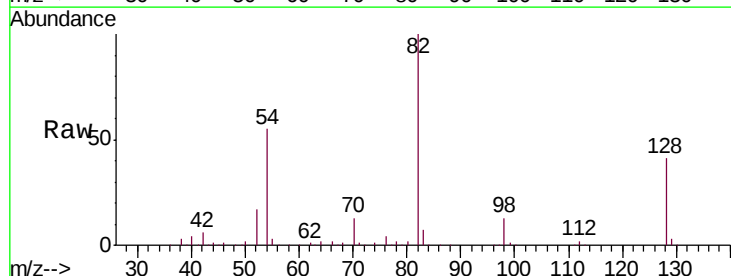


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

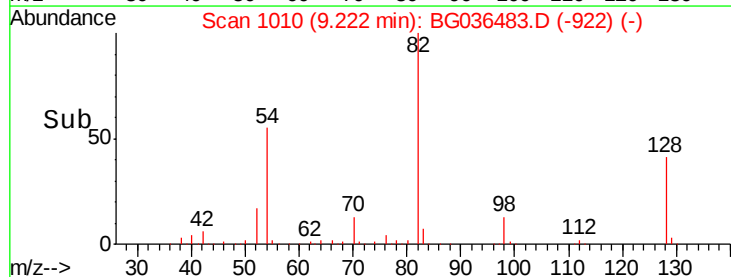
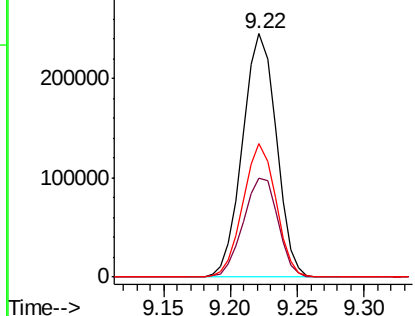


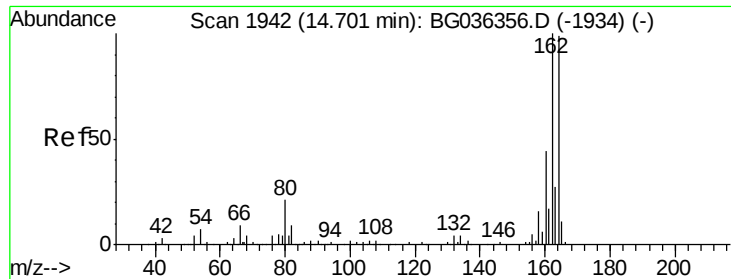
#23  
Nitrobenzene-d5  
Concen: 87.785 ng  
RT: 9.22 min Scan# 1010  
Delta R.T. -0.02 min  
Lab File: BG036483.D  
Acq: 30 Aug 2018 18:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 428909 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.5  | 33.3  | 49.9   |
| 54       | 55.0  | 45.1  | 67.7   |



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

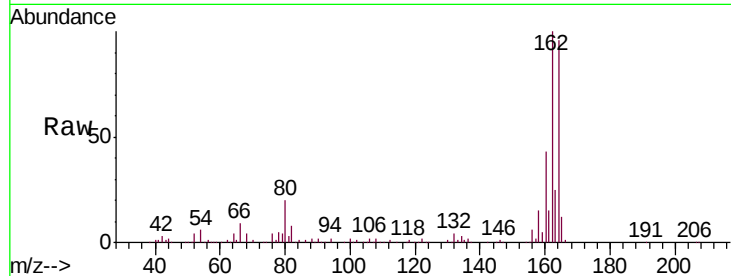




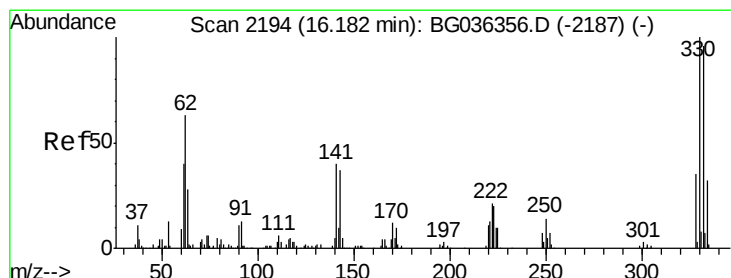
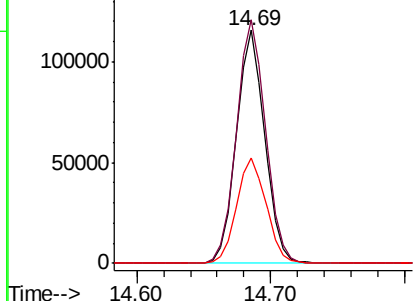
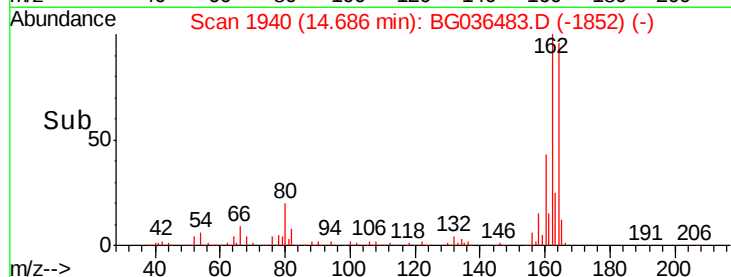
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.69 min Scan# 1940  
 Delta R.T. -0.02 min  
 Lab File: BG036483.D  
 Acq: 30 Aug 2018 18:10

Instrument :  
 BNA\_G  
 ClientSampleId :

Tgt Ion:164 Resp: 169497  
 Ion Ratio Lower Upper  
 164 100  
 162 104.6 80.7 121.1  
 160 45.4 35.3 52.9

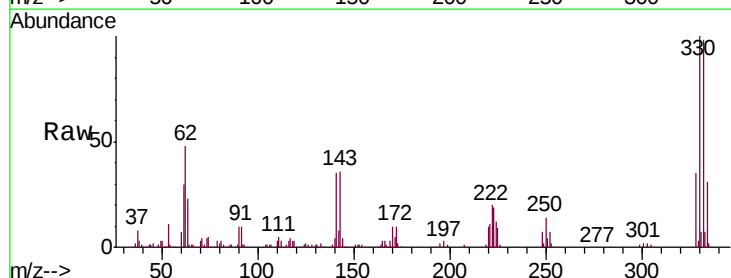


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

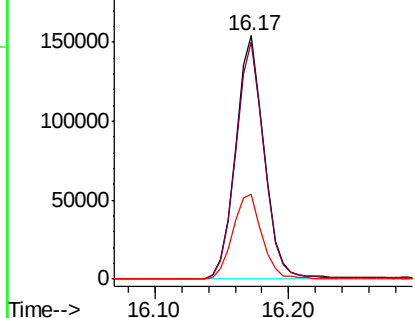
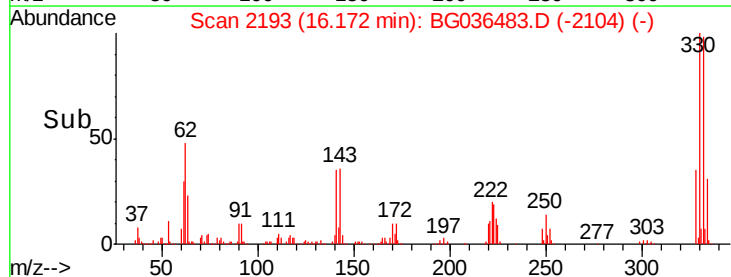


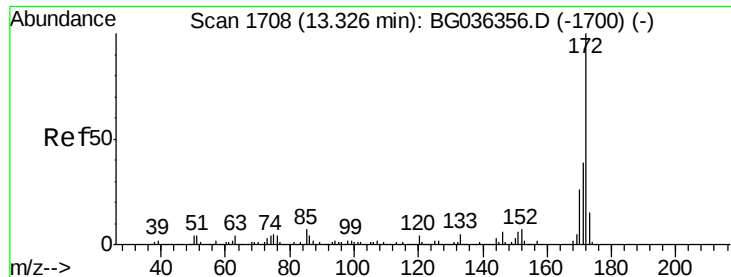
#41  
 2,4,6-Tribromophenol  
 Concen: 113.411 ng  
 RT: 16.17 min Scan# 2193  
 Delta R.T. -0.01 min  
 Lab File: BG036483.D  
 Acq: 30 Aug 2018 18:10

Tgt Ion:330 Resp: 229371  
 Ion Ratio Lower Upper  
 330 100  
 332 98.5 75.4 113.2  
 141 36.3 30.7 46.1



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

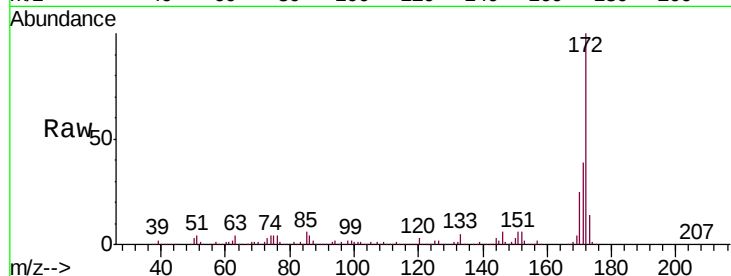




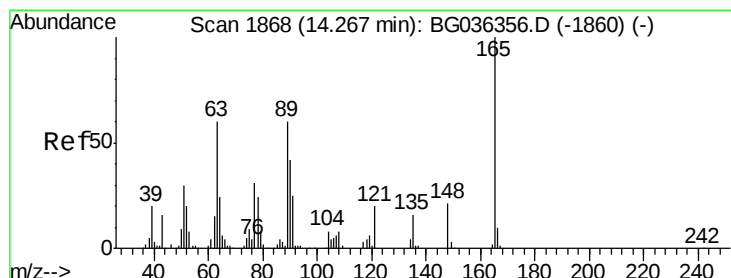
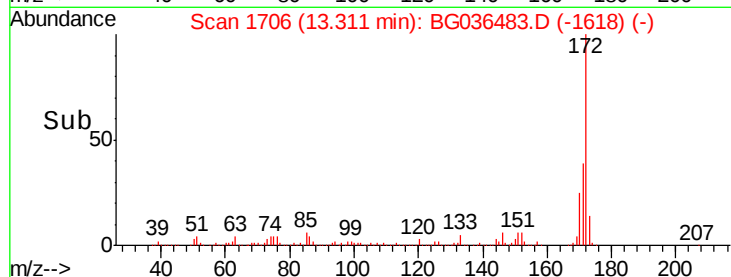
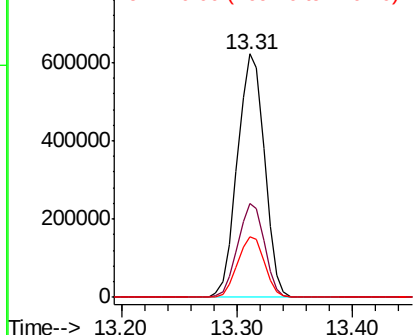
#44  
 2-Fluorobiphenyl  
 Concen: 85.055 ng  
 RT: 13.31 min Scan# 1706  
 Delta R.T. -0.02 min  
 Lab File: BG036483.D  
 Acq: 30 Aug 2018 18:10

Instrument :  
 BNA\_G  
 ClientSampleId :

Tgt Ion:172 Resp: 1009693  
 Ion Ratio Lower Upper  
 172 100  
 171 38.8 31.3 46.9  
 170 25.1 21.0 31.6

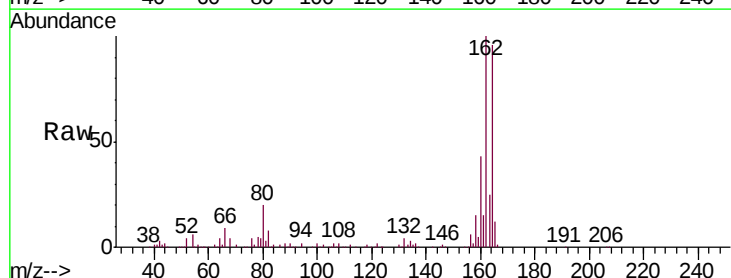


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

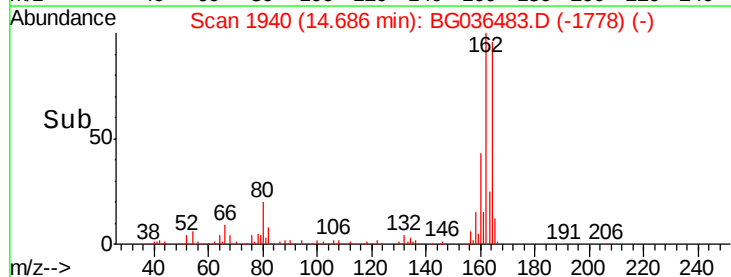
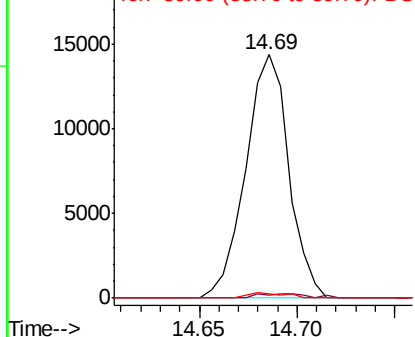


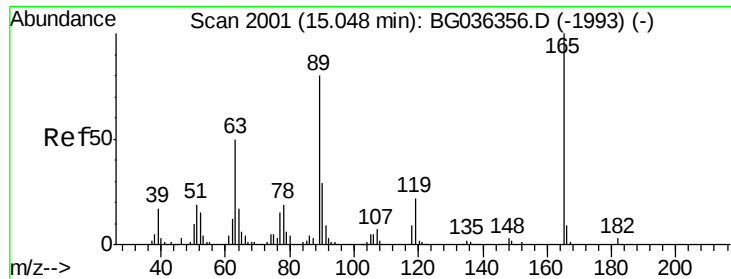
#50  
 2,6-Dinitrotoluene  
 Concen: 7.701 ng  
 RT: 14.69 min Scan# 1940  
 Delta R.T. 0.42 min  
 Lab File: BG036483.D  
 Acq: 30 Aug 2018 18:10

Tgt Ion:165 Resp: 21931  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 50.1 75.1#  
 89 1.5 47.8 71.6#



Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BG  
 Ion 89.00 (88.70 to 89.70): BG

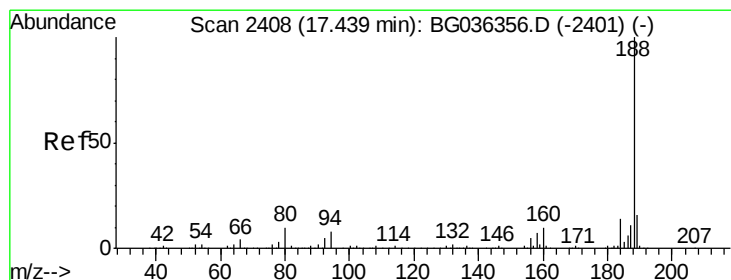
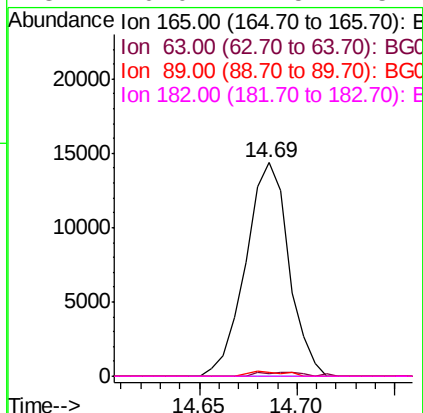
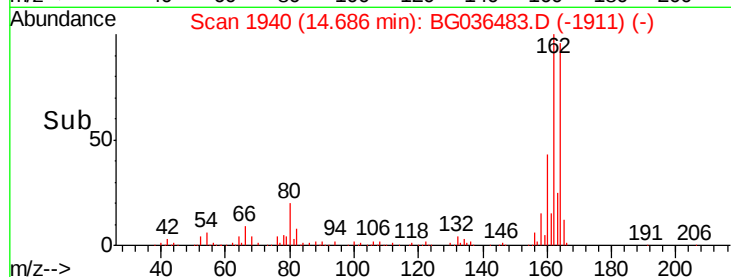
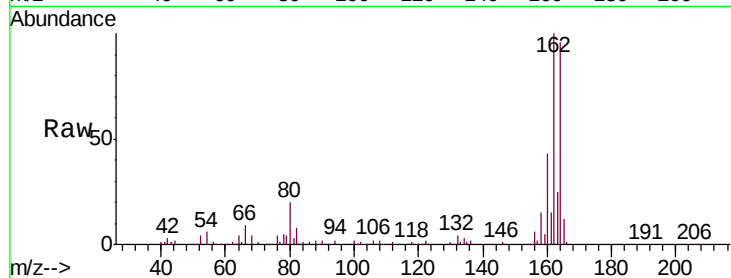




#56  
 2,4-Dinitrotoluene  
 Concen: 5.909 ng  
 RT: 14.69 min Scan# 1940  
 Delta R.T. -0.36 min  
 Lab File: BG036483.D  
 Acq: 30 Aug 2018 18:10

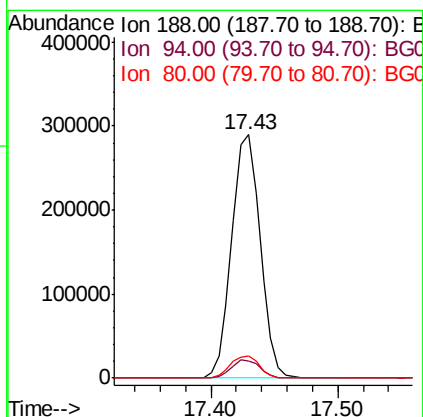
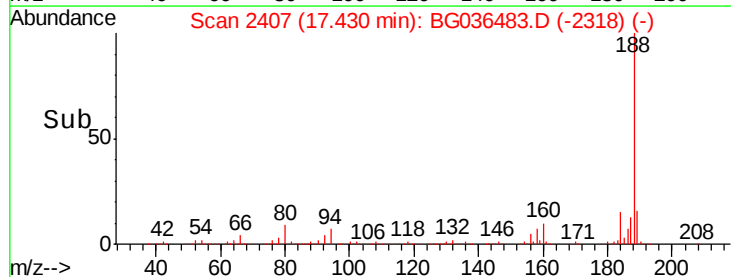
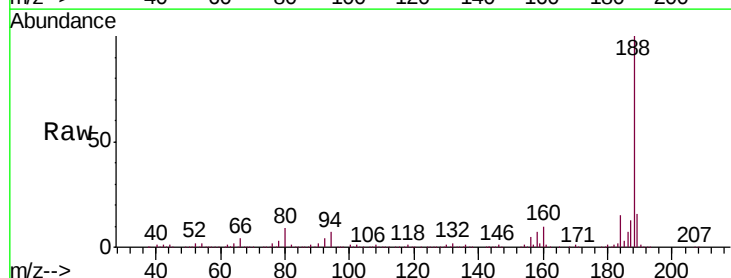
Instrument :  
 BNA\_G  
 ClientSampleId :

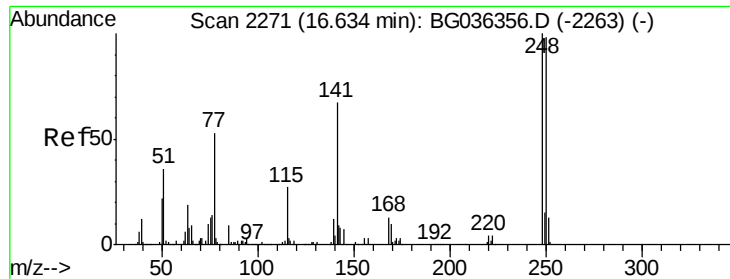
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 40.1  | 60.1# |
| 89      | 1.5   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2407  
 Delta R.T. -0.01 min  
 Lab File: BG036483.D  
 Acq: 30 Aug 2018 18:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.2   | 6.7   | 10.1  |
| 80      | 9.0   | 8.1   | 12.1  |





#66

4-Bromophenyl-phenylether

Concen: 3.069 ng

RT: 16.17 min Scan# 2193

Delta R.T. -0.46 min

Lab File: BG036483.D

Acq: 30 Aug 2018 18:10

Instrument :

BNA\_G

ClientSampleId :

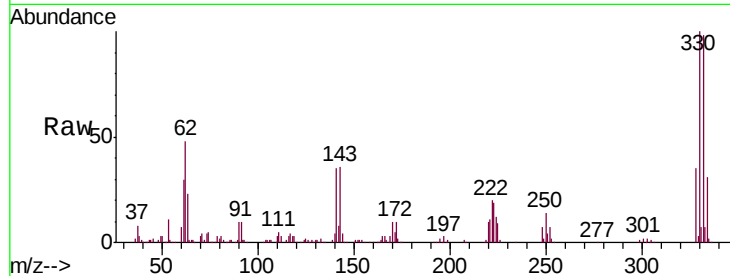
Tgt Ion:248 Resp: 16176

Ion Ratio Lower Upper

248 100

250 202.5 78.1 117.1#

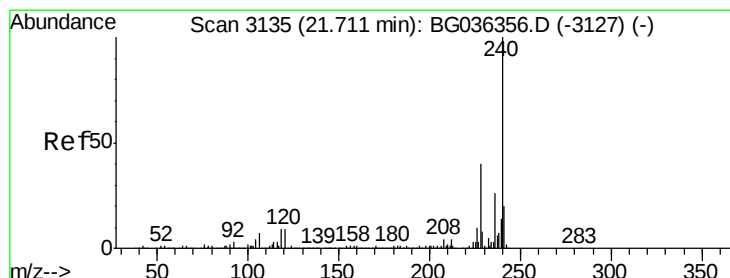
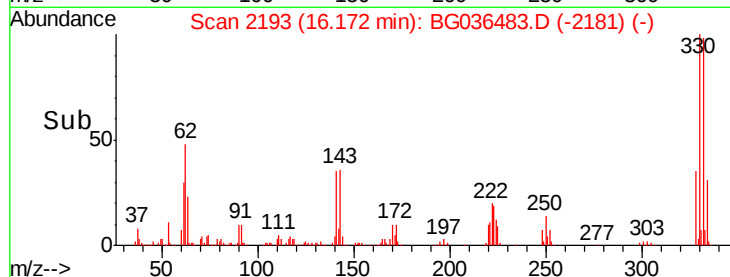
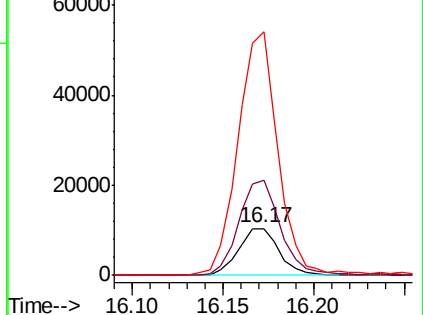
141 519.3 53.7 80.5#



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.70 min Scan# 3133

Delta R.T. -0.02 min

Lab File: BG036483.D

Acq: 30 Aug 2018 18:10

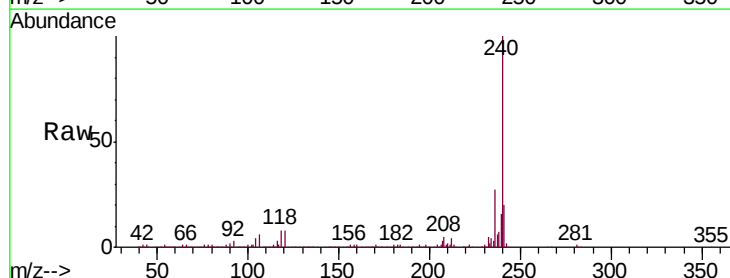
Tgt Ion:240 Resp: 480538

Ion Ratio Lower Upper

240 100

120 7.7 6.9 10.3

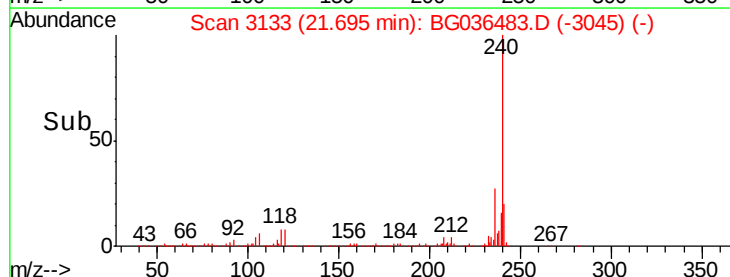
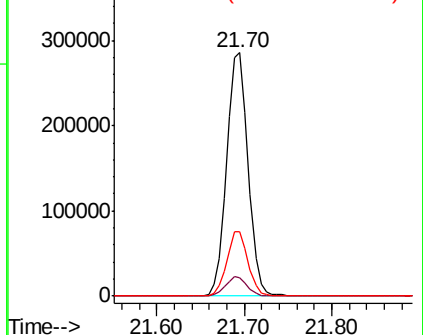
236 26.6 21.2 31.8

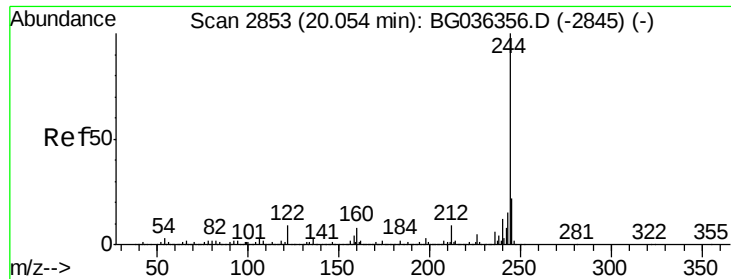


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 82.837 ng

RT: 20.04 min Scan# 2851

Delta R.T. -0.02 min

Lab File: BG036483.D

Acq: 30 Aug 2018 18:10

Instrument :

BNA\_G

ClientSampleId :

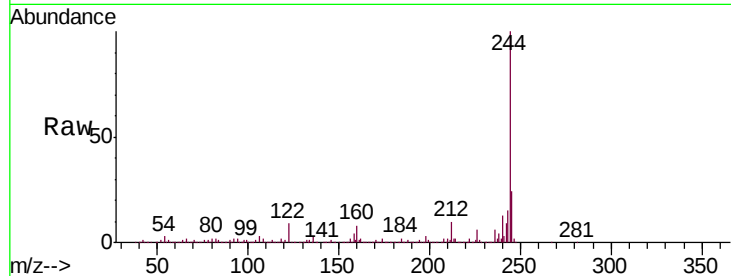
Tgt Ion:244 Resp: 1703052

Ion Ratio Lower Upper

244 100

212 9.5 7.0 10.6

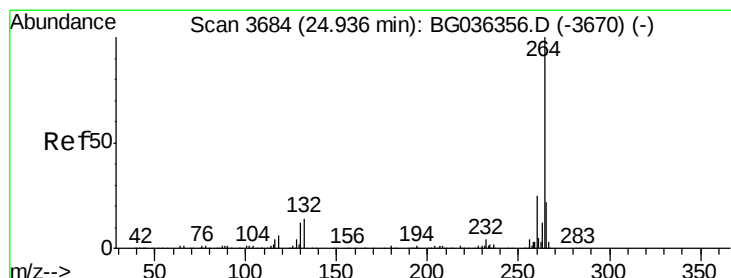
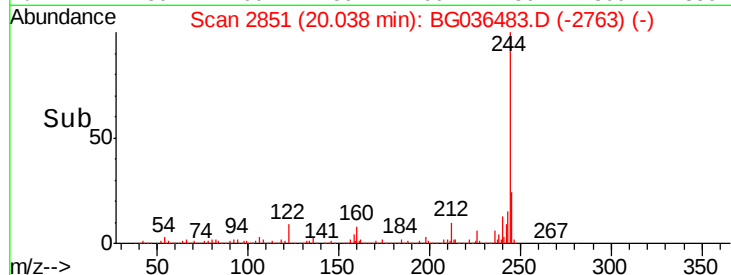
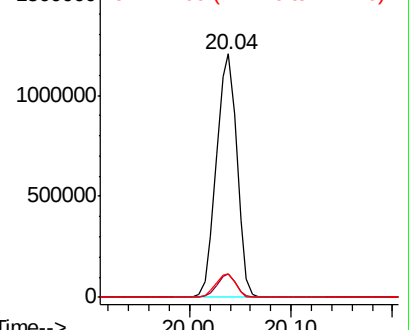
122 9.4 7.1 10.7



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.91 min Scan# 3680

Delta R.T. -0.03 min

Lab File: BG036483.D

Acq: 30 Aug 2018 18:10

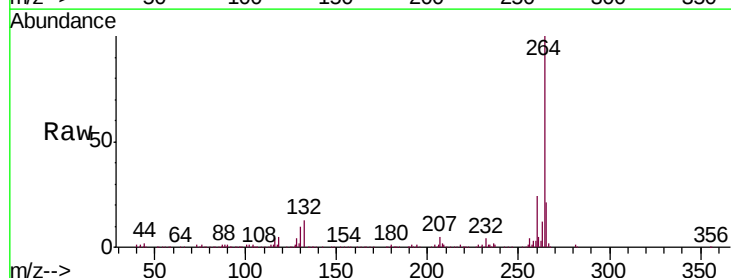
Tgt Ion:264 Resp: 483555

Ion Ratio Lower Upper

264 100

260 23.9 19.6 29.4

265 21.2 17.4 26.0



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

