

Data File : BG038817.D  
Acq On : 22 Dec 2018 14:36  
Operator : JU/SJ  
Sample : J6192-04  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-122018

Quant Time: Dec 24 03:56:02 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 15:26:27 2018  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.06  | 152  | 27880    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.88 | 136  | 115139   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.70 | 164  | 79375    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.45 | 188  | 182537   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.73 | 240  | 171233   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 25.03 | 264  | 178721   | 20.00 | ng    | 0.01     |

|                             |       |     |        |        |    |      |
|-----------------------------|-------|-----|--------|--------|----|------|
| System Monitoring Compounds |       |     |        |        |    |      |
| 5) 2-Fluorophenol           | 5.61  | 112 | 199914 | 127.18 | ng | 0.01 |
| 7) Phenol-d6                | 7.22  | 99  | 255026 | 118.18 | ng | 0.01 |
| 23) Nitrobenzene-d5         | 9.24  | 82  | 201443 | 89.38  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 16.19 | 330 | 138386 | 126.50 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 13.32 | 172 | 552304 | 95.46  | ng | 0.00 |
| 79) Terphenyl-d14           | 20.04 | 244 | 862201 | 109.58 | ng | 0.00 |

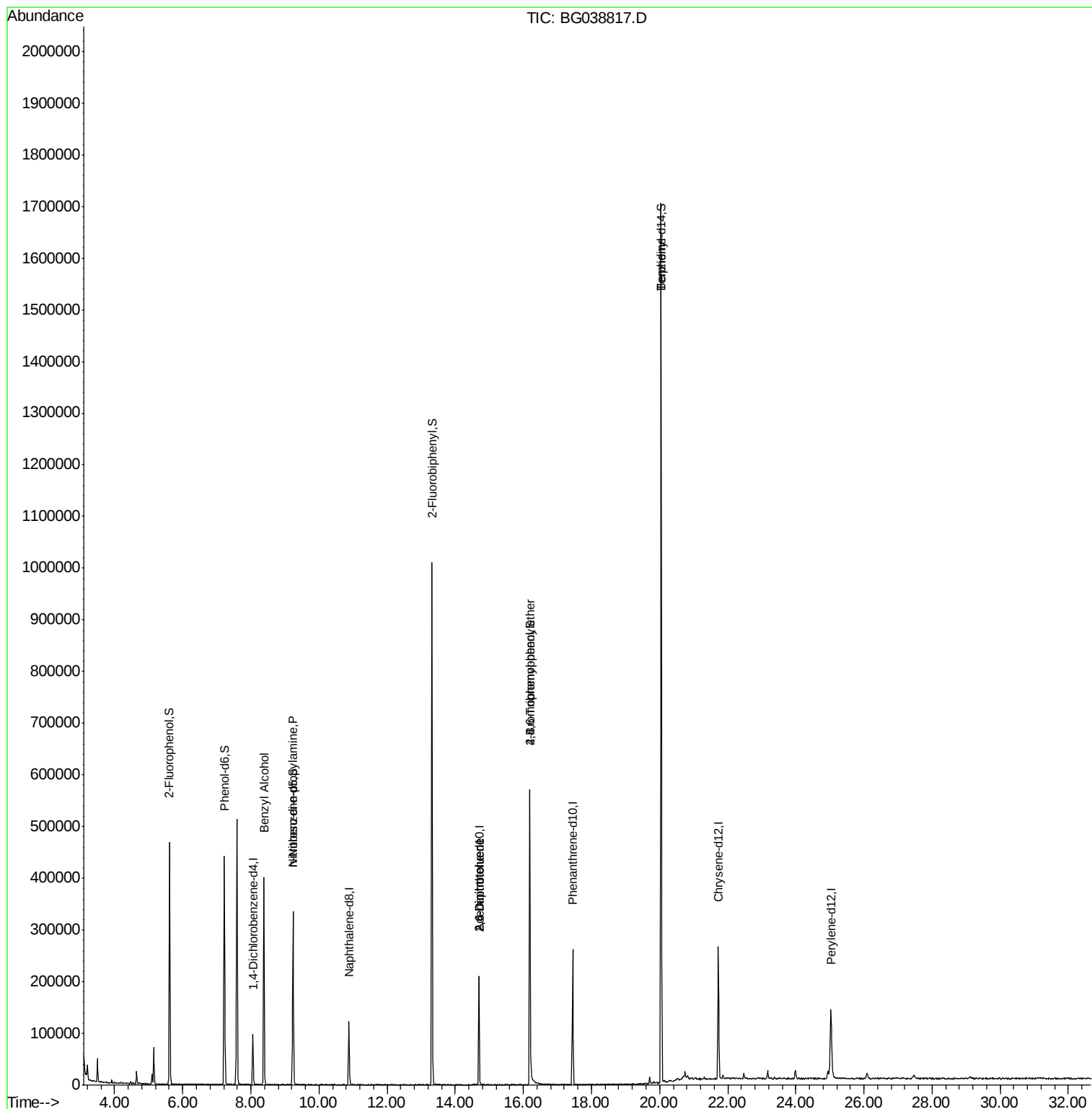
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 15) Benzyl Alcohol             | 8.38  | 79  | 3624  | 2.152  | ng | # 45 |
| 19) n-Nitroso-di-n-propylamine | 9.24  | 70  | 27281 | 18.000 | ng | # 68 |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165 | 10573 | 7.198  | ng | # 19 |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165 | 10573 | 5.110  | ng | # 21 |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248 | 8848  | 3.969  | ng | # 1  |
| 77) Benzidine                  | 20.04 | 184 | 14735 | 2.910  | ng | # 94 |

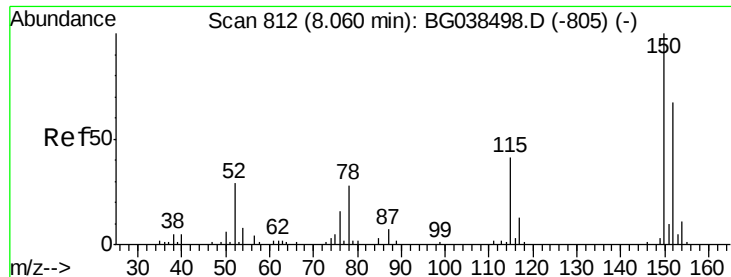
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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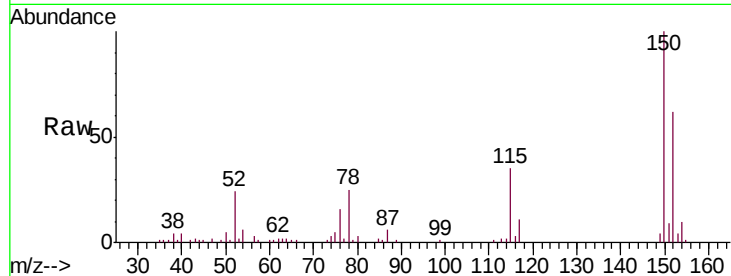


#1

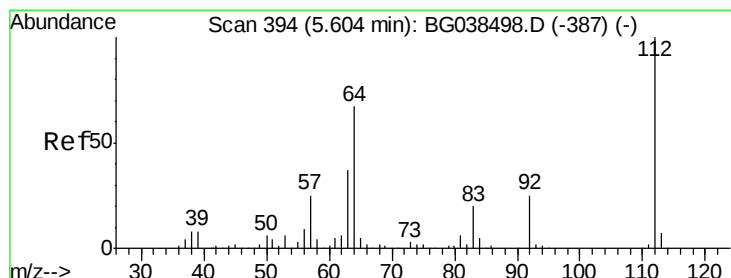
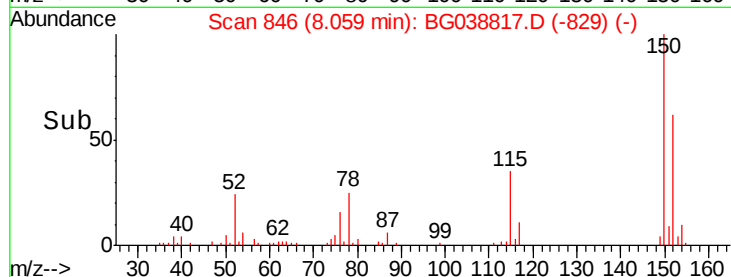
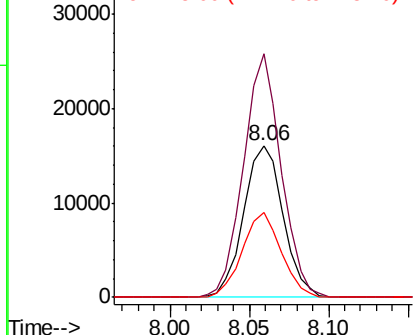
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 846  
Delta R.T. -0.00 min  
Lab File: BG038817.D  
Acq: 22 Dec 2018 14:36

Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-122018

Tgt Ion:152 Resp: 27880  
Ion Ratio Lower Upper  
152 100  
150 160.2 119.5 179.3  
115 55.8 49.6 74.4



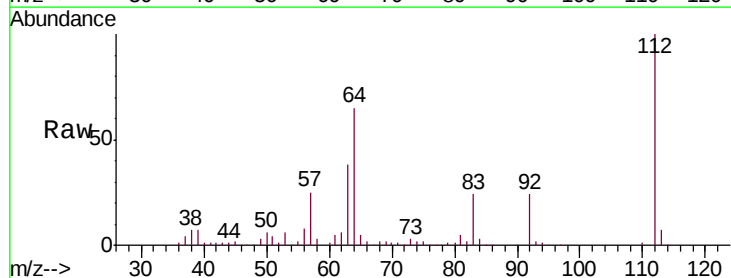
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



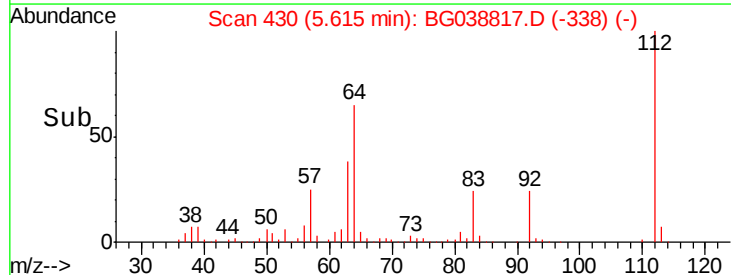
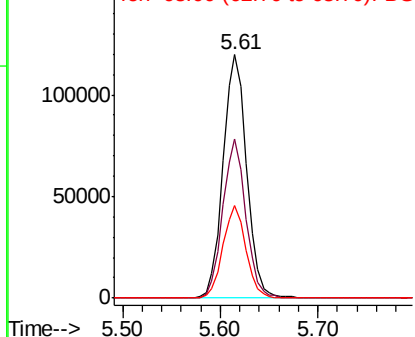
#5

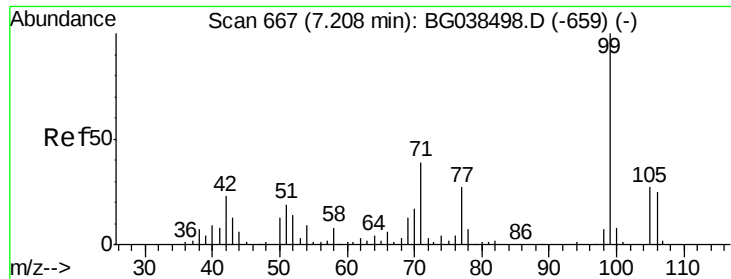
2-Fluorophenol  
Concen: 127.180 ng  
RT: 5.61 min Scan# 430  
Delta R.T. 0.01 min  
Lab File: BG038817.D  
Acq: 22 Dec 2018 14:36

Tgt Ion:112 Resp: 199914  
Ion Ratio Lower Upper  
112 100  
64 65.4 53.4 80.2  
63 37.8 29.3 43.9



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: 118.182 ng

RT: 7.22 min Scan# 703

Delta R.T. 0.01 min

Lab File: BG038817.D

Acq: 22 Dec 2018 14:36

Instrument :

BNA\_G

ClientSampleId :

HD-01-122018

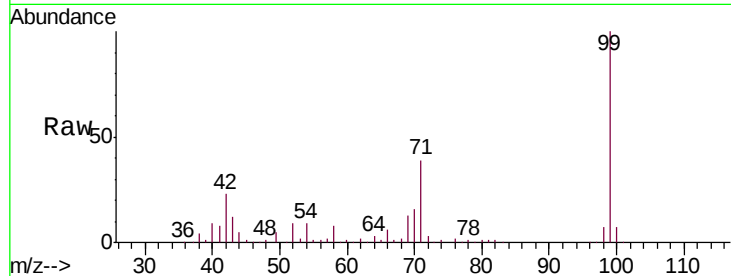
Tgt Ion: 99 Resp: 255026

Ion Ratio Lower Upper

99 100

42 23.2 18.5 27.7

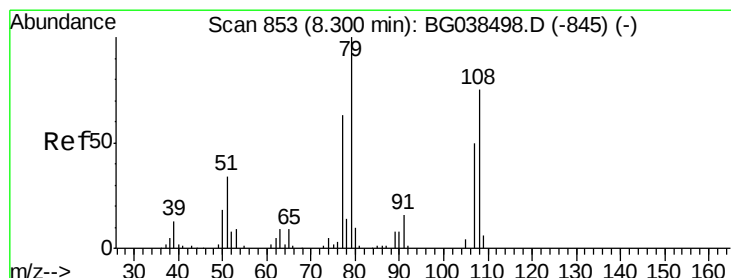
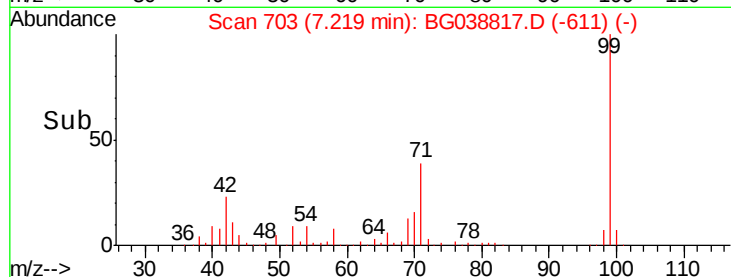
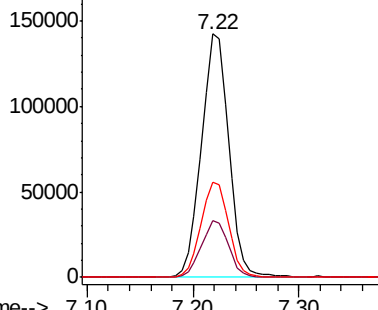
71 38.9 31.1 46.7



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: 2.152 ng

RT: 8.38 min Scan# 901

Delta R.T. 0.08 min

Lab File: BG038817.D

Acq: 22 Dec 2018 14:36

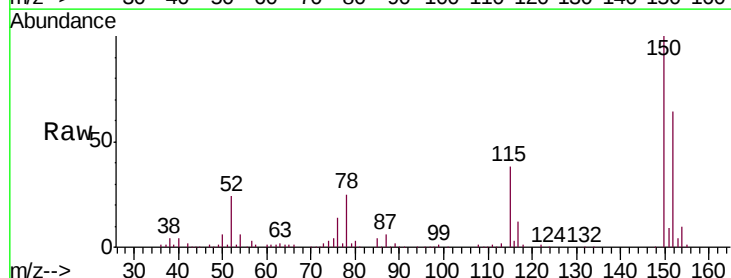
Tgt Ion: 79 Resp: 3624

Ion Ratio Lower Upper

79 100

108 26.6 60.2 90.4#

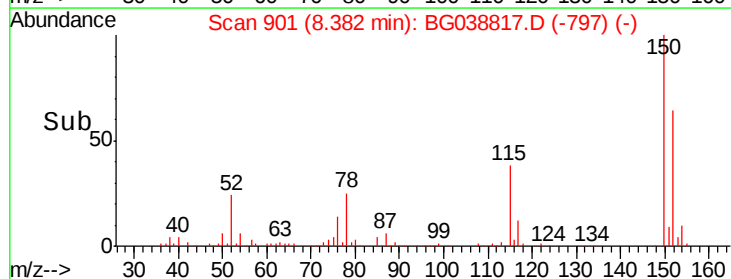
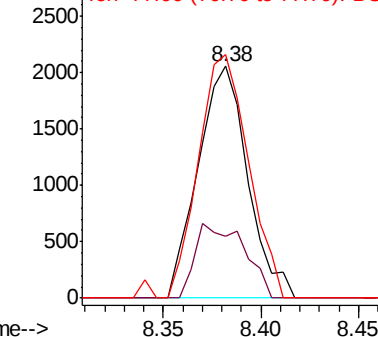
77 105.0 50.7 76.1#

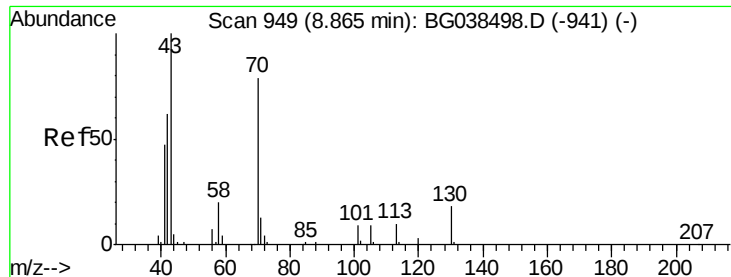


Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

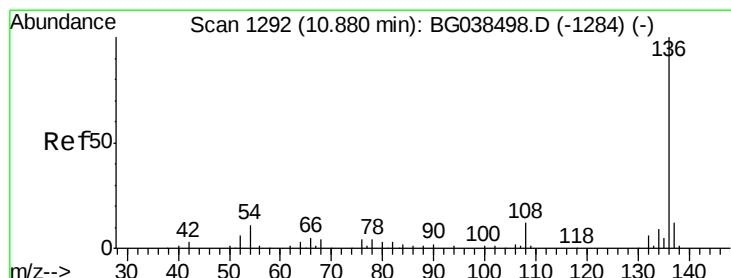
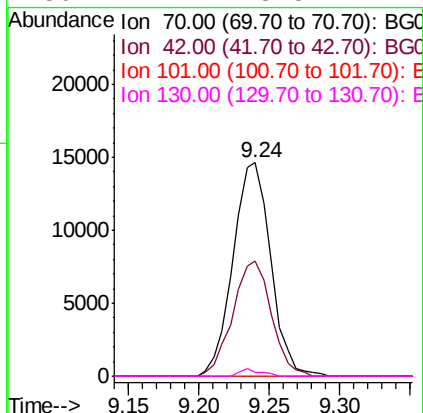
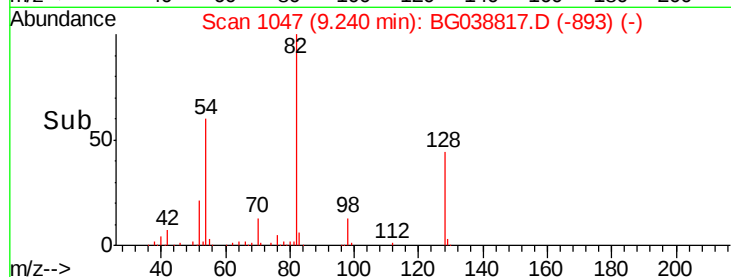
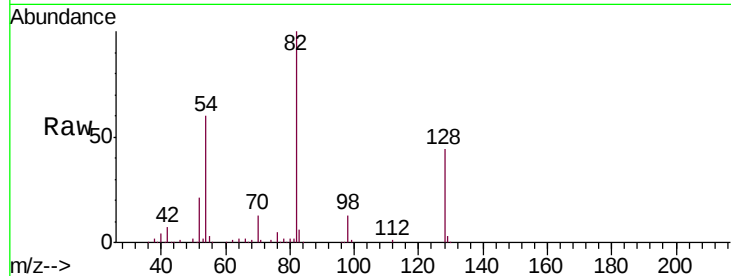




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.000 ng  
RT: 9.24 min Scan# 1047  
Delta R.T. 0.38 min  
Lab File: BG038817.D  
Acq: 22 Dec 2018 14:36

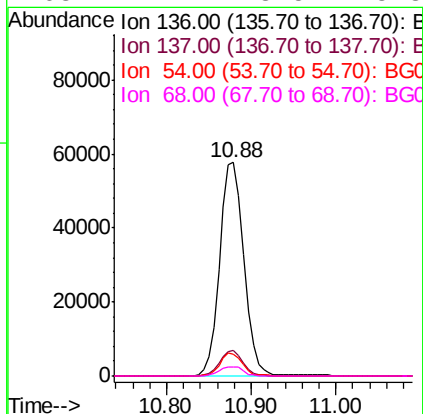
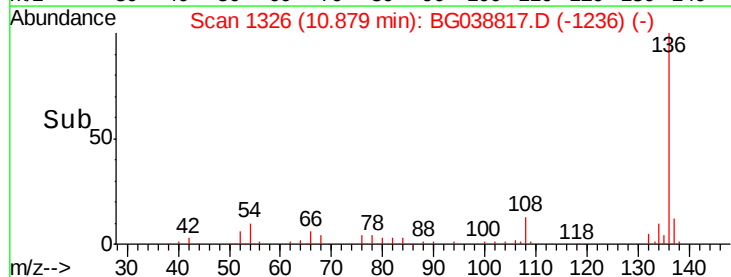
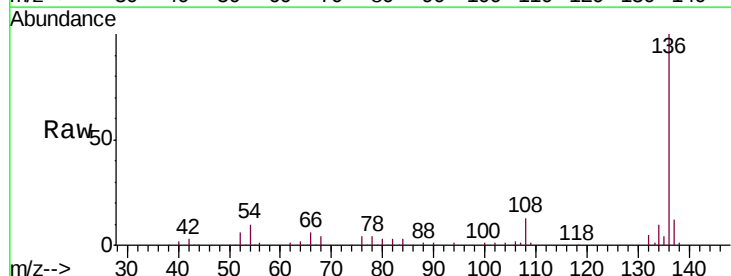
Instrument :  
BNA\_G  
ClientSampleId :  
HD-01-122018

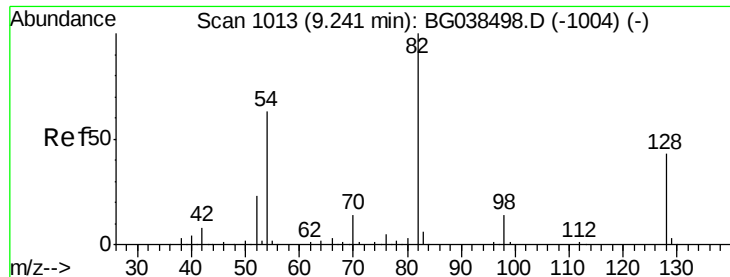
Tgt Ion: 70 Resp: 27281  
Ion Ratio Lower Upper  
70 100  
42 53.9 63.6 95.4#  
101 0.0 9.2 13.8#  
130 1.7 18.5 27.7#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1326  
Delta R.T. -0.00 min  
Lab File: BG038817.D  
Acq: 22 Dec 2018 14:36

Tgt Ion: 136 Resp: 115139  
Ion Ratio Lower Upper  
136 100  
137 12.2 9.3 13.9  
54 10.5 8.5 12.7  
68 4.2 3.5 5.3

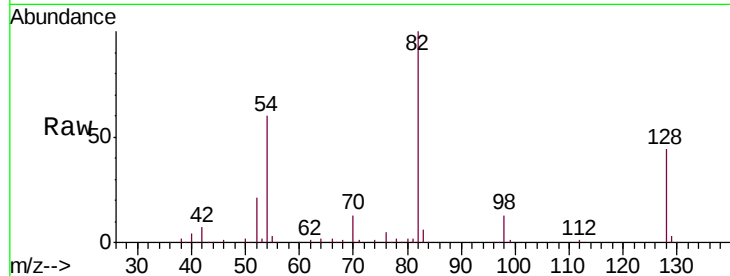




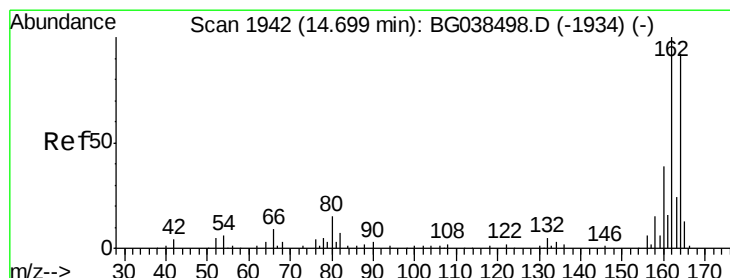
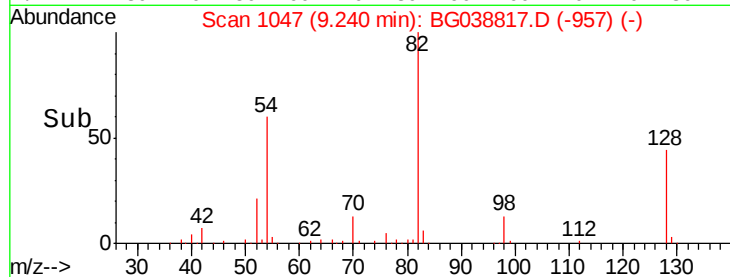
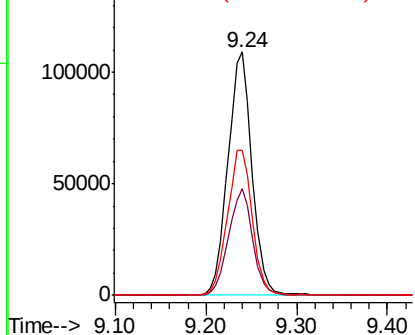
#23  
 Nitrobenzene-d5  
 Concen: 89.380 ng  
 RT: 9.24 min Scan# 1047  
 Delta R.T. -0.00 min  
 Lab File: BG038817.D  
 Acq: 22 Dec 2018 14:36

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HD-01-122018

Tgt Ion: 82 Resp: 201443  
 Ion Ratio Lower Upper  
 82 100  
 128 43.6 34.6 52.0  
 54 59.8 50.6 76.0

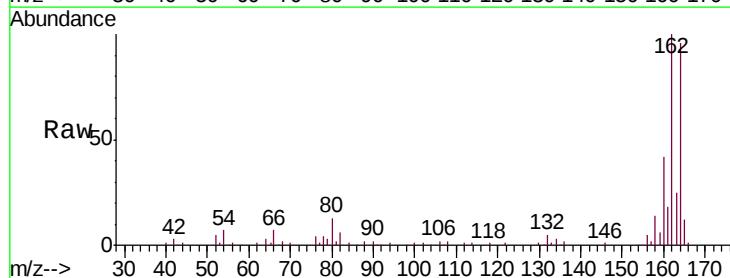


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

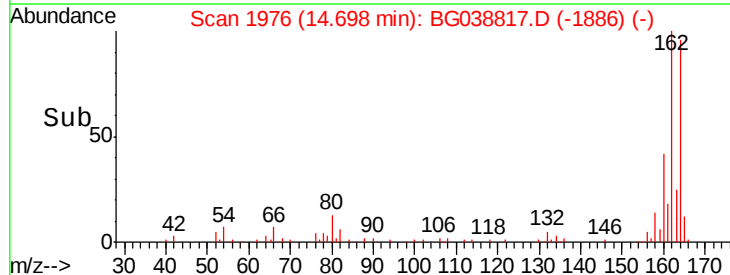
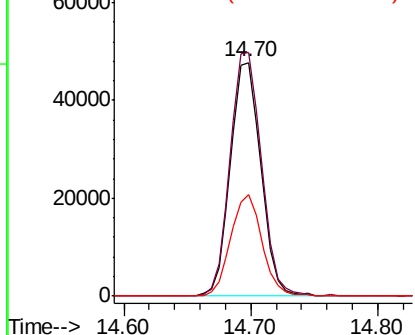


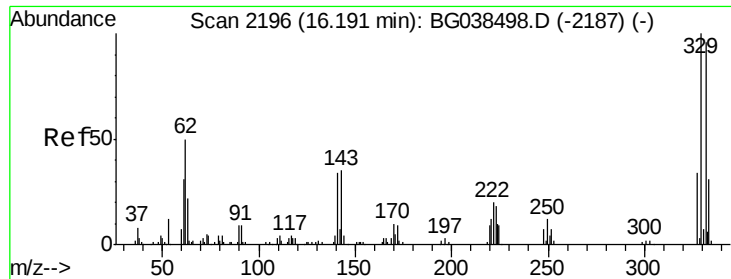
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.70 min Scan# 1976  
 Delta R.T. -0.00 min  
 Lab File: BG038817.D  
 Acq: 22 Dec 2018 14:36

Tgt Ion: 164 Resp: 79375  
 Ion Ratio Lower Upper  
 164 100  
 162 104.1 86.6 130.0  
 160 43.5 34.2 51.2



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: 126.503 ng

RT: 16.19 min Scan# 2230

Delta R.T. -0.00 min

Lab File: BG038817.D

Acq: 22 Dec 2018 14:36

Instrument :

BNA\_G

ClientSampleId :

HD-01-122018

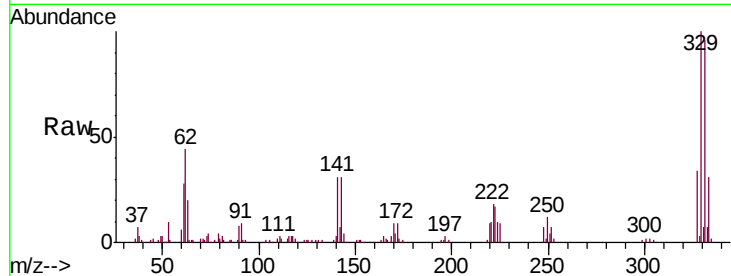
Tgt Ion:330 Resp: 138386

Ion Ratio Lower Upper

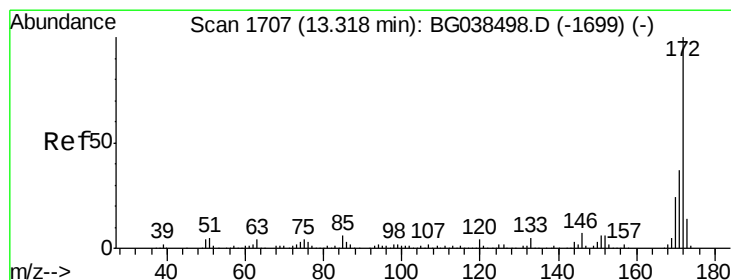
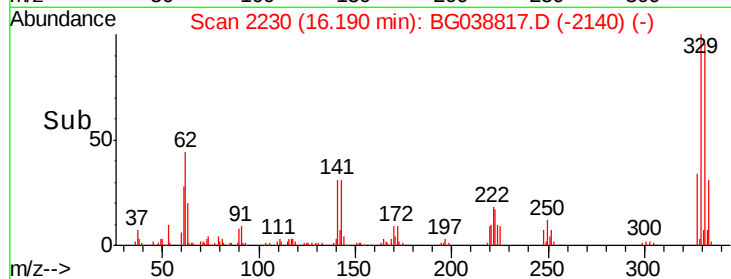
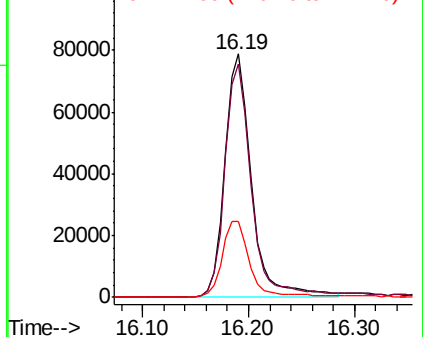
330 100

332 97.9 76.9 115.3

141 32.4 28.8 43.2



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: 95.455 ng

RT: 13.32 min Scan# 1741

Delta R.T. -0.00 min

Lab File: BG038817.D

Acq: 22 Dec 2018 14:36

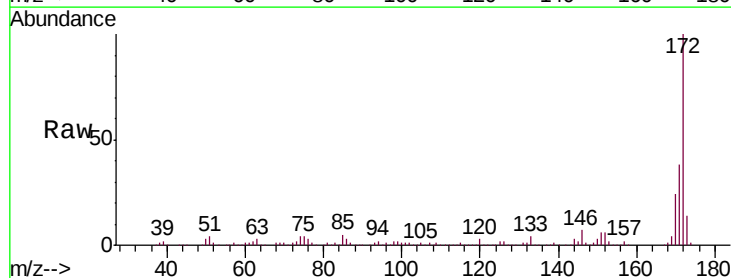
Tgt Ion:172 Resp: 552304

Ion Ratio Lower Upper

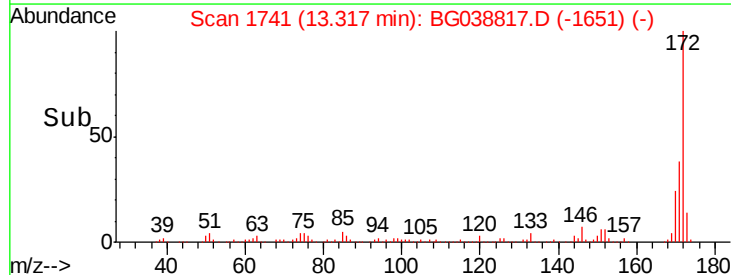
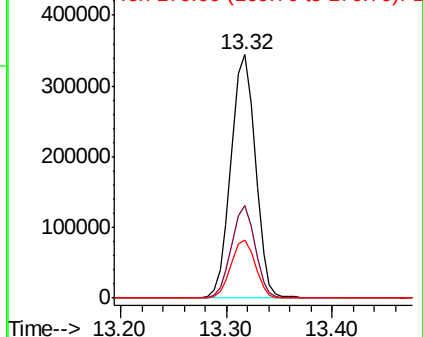
172 100

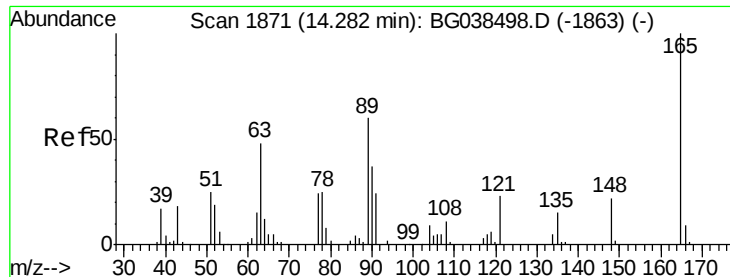
171 37.8 29.8 44.6

170 23.9 19.5 29.3



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

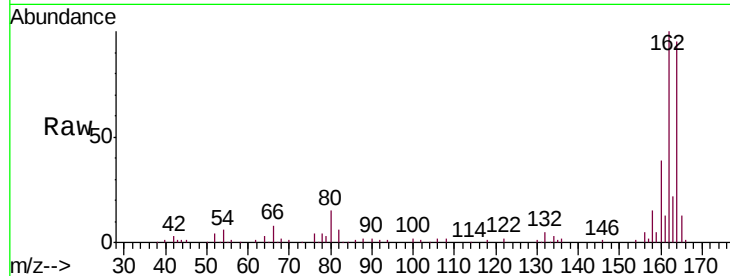




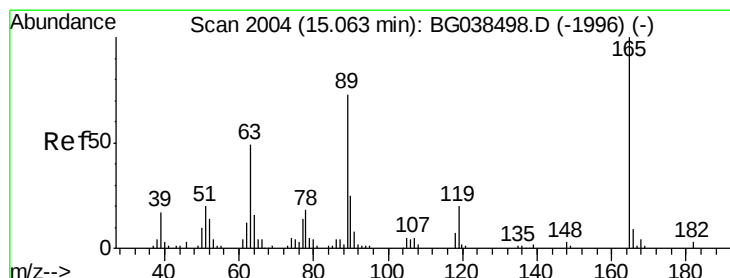
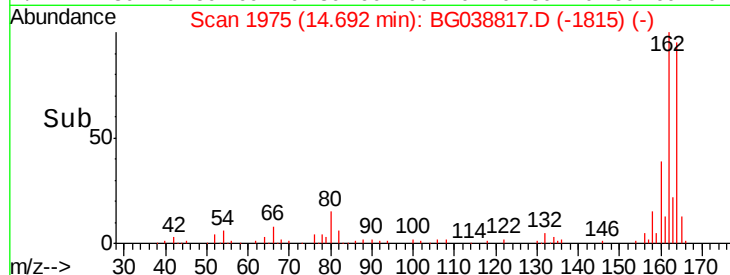
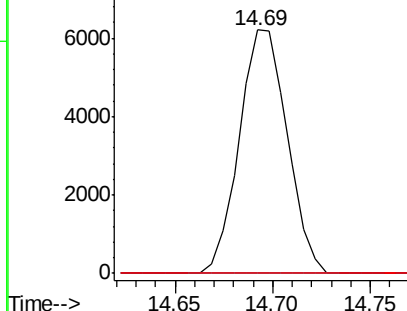
#51  
 2,6-Dinitrotoluene  
 Concen: 7.198 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. 0.41 min  
 Lab File: BG038817.D  
 Acq: 22 Dec 2018 14:36

Instrument :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 51.8  | 77.6# |
| 89      | 0.0   | 47.9  | 71.9# |

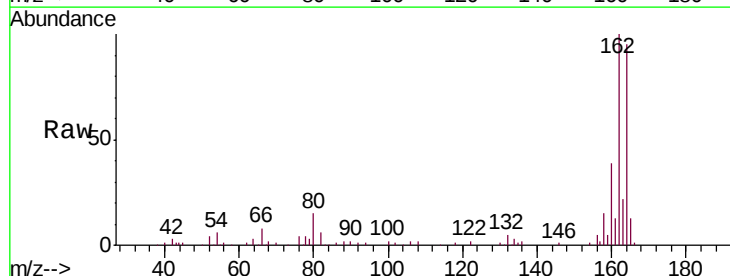


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC

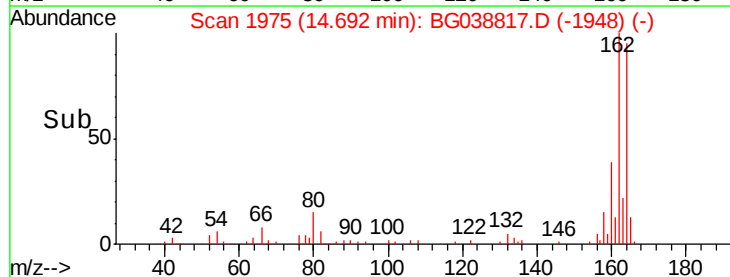
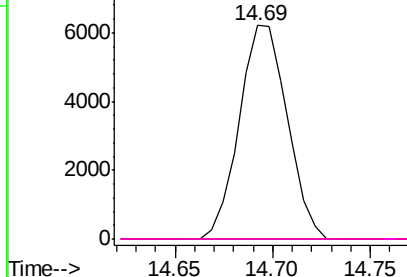


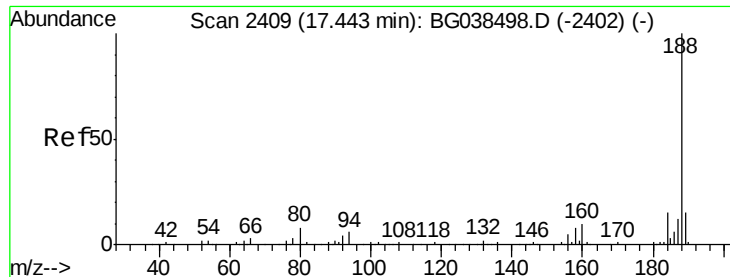
#57  
 2,4-Dinitrotoluene  
 Concen: 5.110 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. -0.37 min  
 Lab File: BG038817.D  
 Acq: 22 Dec 2018 14:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 39.0  | 58.4# |
| 89      | 0.0   | 58.0  | 87.0# |
| 182     | 0.0   | 2.3   | 3.5#  |



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: 17.45 min Scan# 2444

Delta R.T. 0.01 min

Lab File: BG038817.D

Acq: 22 Dec 2018 14:36

Instrument :

BNA\_G

ClientSampleId :

HD-01-122018

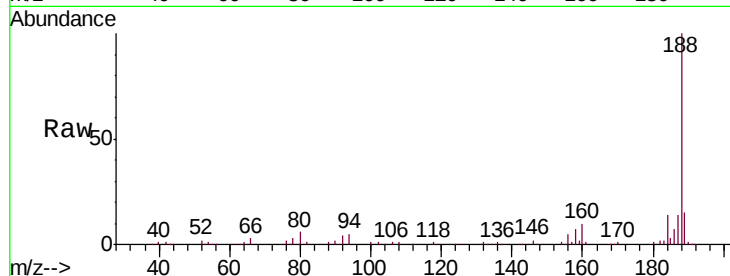
Tgt Ion:188 Resp: 182537

Ion Ratio Lower Upper

188 100

94 5.3 5.1 7.7

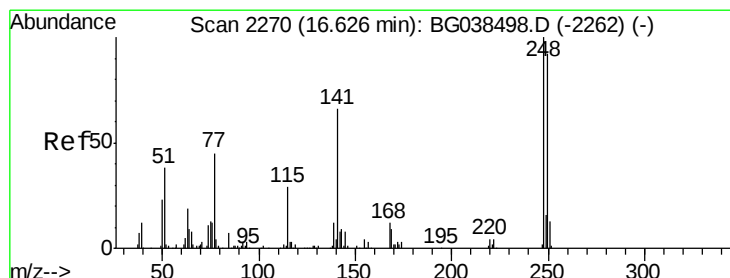
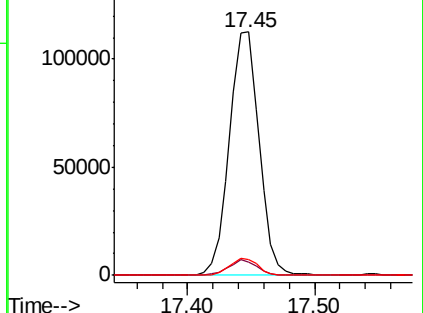
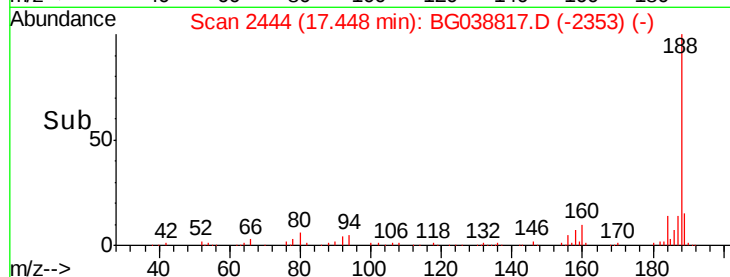
80 6.3 6.1 9.1



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



#67

4-Bromophenyl-phenylether

Concen: 3.969 ng

RT: 16.19 min Scan# 2230

Delta R.T. -0.44 min

Lab File: BG038817.D

Acq: 22 Dec 2018 14:36

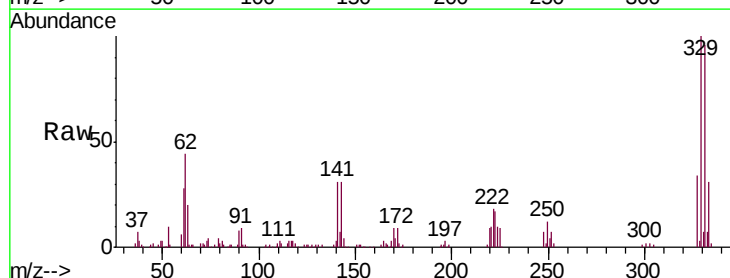
Tgt Ion:248 Resp: 8848

Ion Ratio Lower Upper

248 100

250 235.6 73.4 110.2#

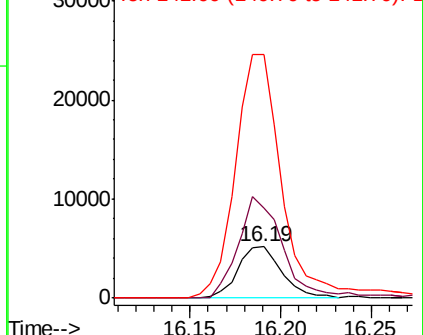
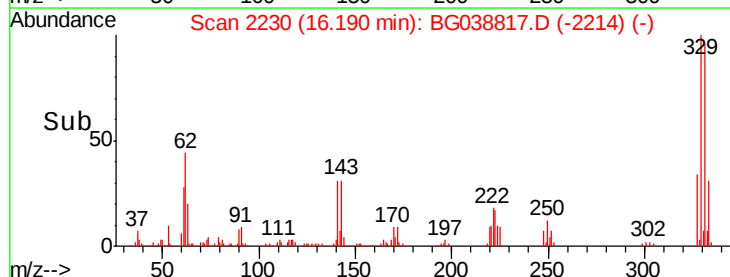
141 473.3 52.9 79.3#

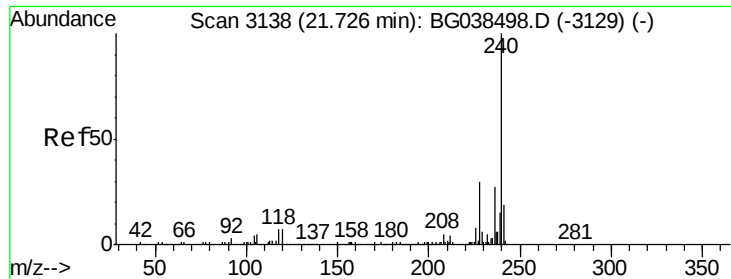


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

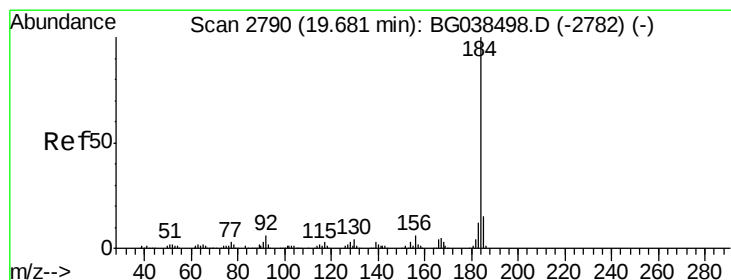
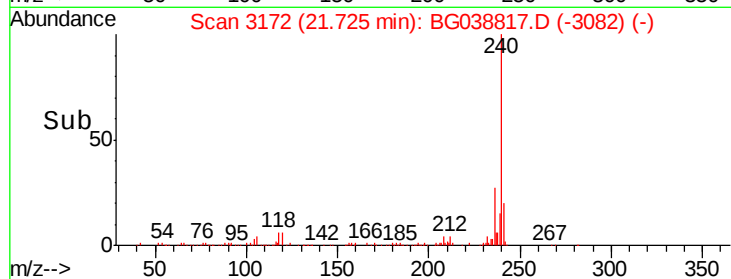
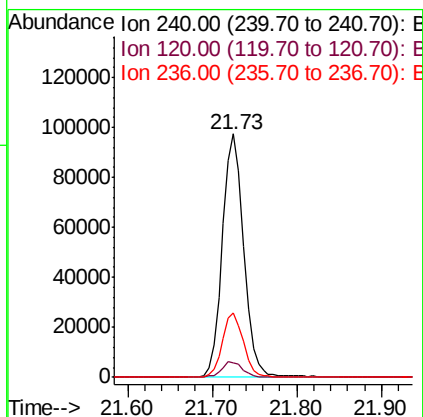
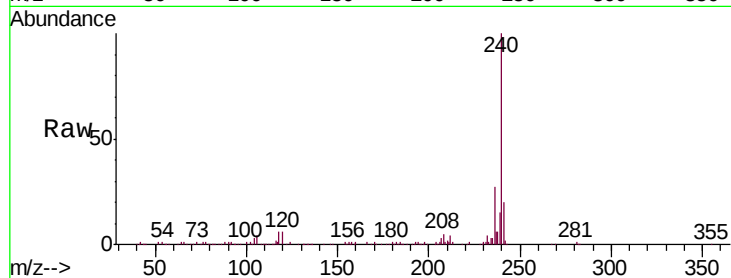




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.73 min Scan# 3172  
 Delta R.T. -0.00 min  
 Lab File: BG038817.D  
 Acq: 22 Dec 2018 14:36

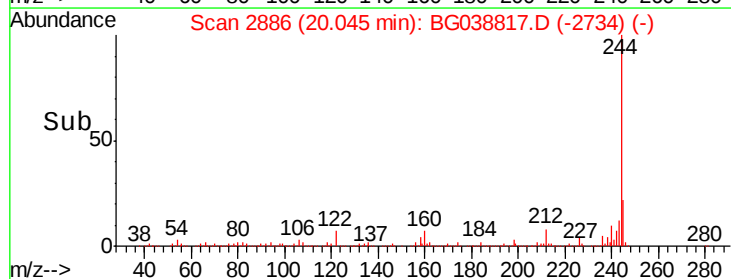
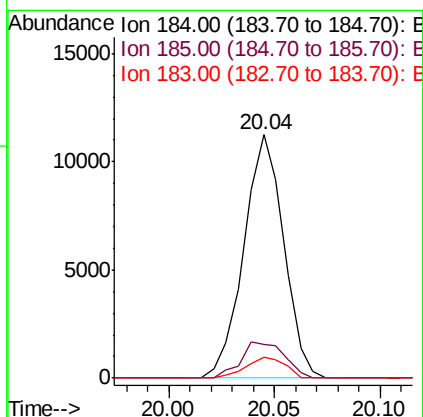
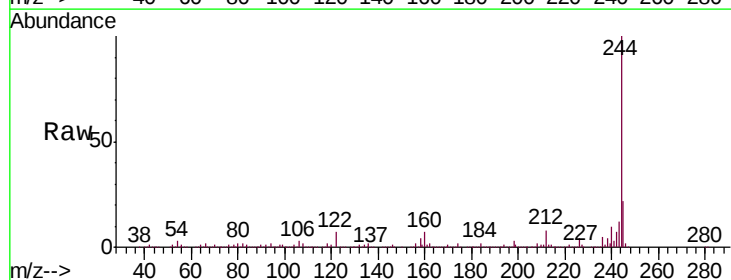
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HD-01-122018

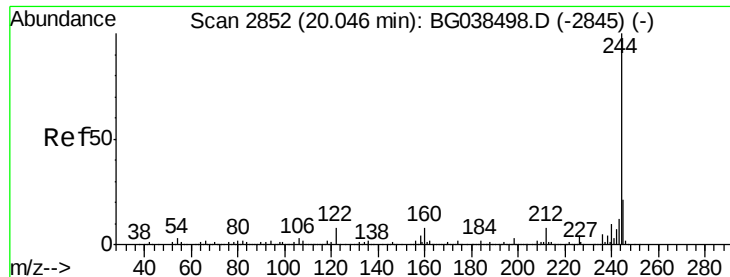
Tgt Ion:240 Resp: 171233  
 Ion Ratio Lower Upper  
 240 100  
 120 6.0 5.3 7.9  
 236 26.5 21.4 32.2



#77  
 Benzidine  
 Concen: 2.910 ng  
 RT: 20.04 min Scan# 2886  
 Delta R.T. 0.36 min  
 Lab File: BG038817.D  
 Acq: 22 Dec 2018 14:36

Tgt Ion:184 Resp: 14735  
 Ion Ratio Lower Upper  
 184 100  
 185 13.7 12.2 18.2  
 183 8.4 9.6 14.4#





#79

Terphenyl-d14

Concen: 109.584 ng

RT: 20.04 min Scan# 2886

Delta R.T. -0.00 min

Lab File: BG038817.D

Acq: 22 Dec 2018 14:36

Instrument :

BNA\_G

ClientSampleId :

HD-01-122018

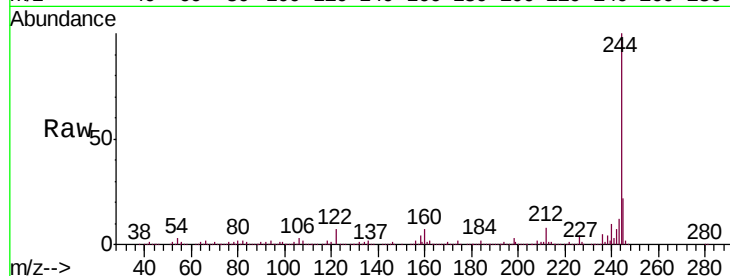
Tgt Ion:244 Resp: 862201

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

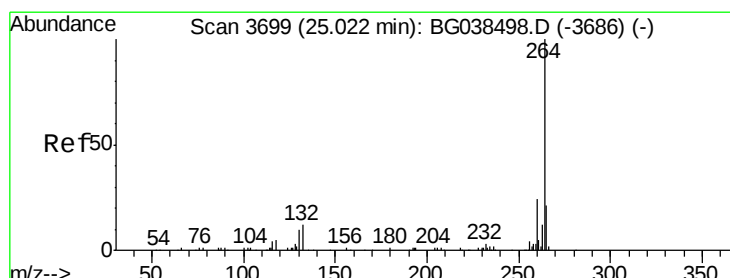
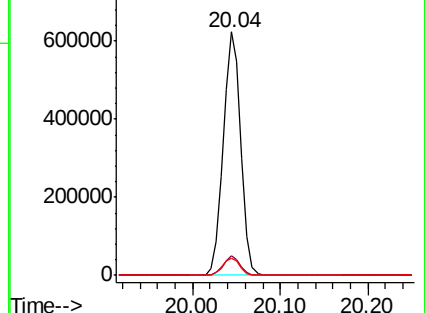
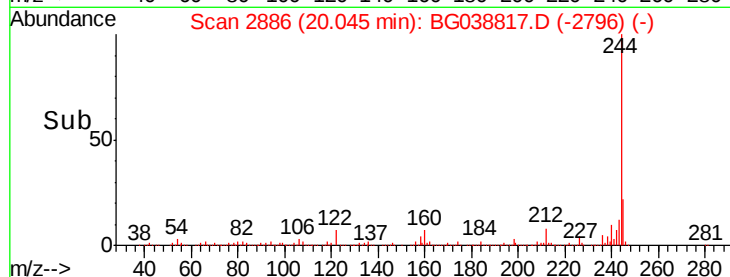
122 7.2 6.3 9.5



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: 25.03 min Scan# 3735

Delta R.T. 0.01 min

Lab File: BG038817.D

Acq: 22 Dec 2018 14:36

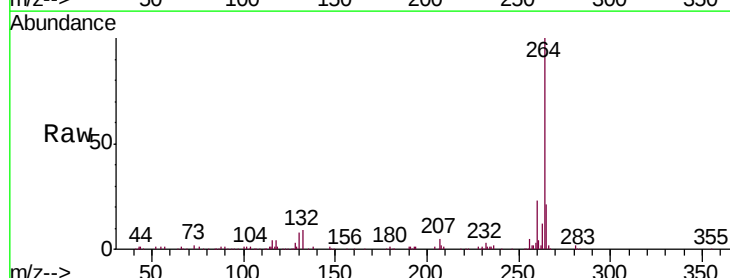
Tgt Ion:264 Resp: 178721

Ion Ratio Lower Upper

264 100

260 22.6 18.9 28.3

265 20.8 17.0 25.4



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

