

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG040219\  
 Data File : BG040303.D  
 Acq On : 2 Apr 2019 19:18  
 Operator : JU/SJ  
 Sample : K2179-12  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 03 00:51:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 28 05:47:00 2019  
 Response via : Initial Calibration

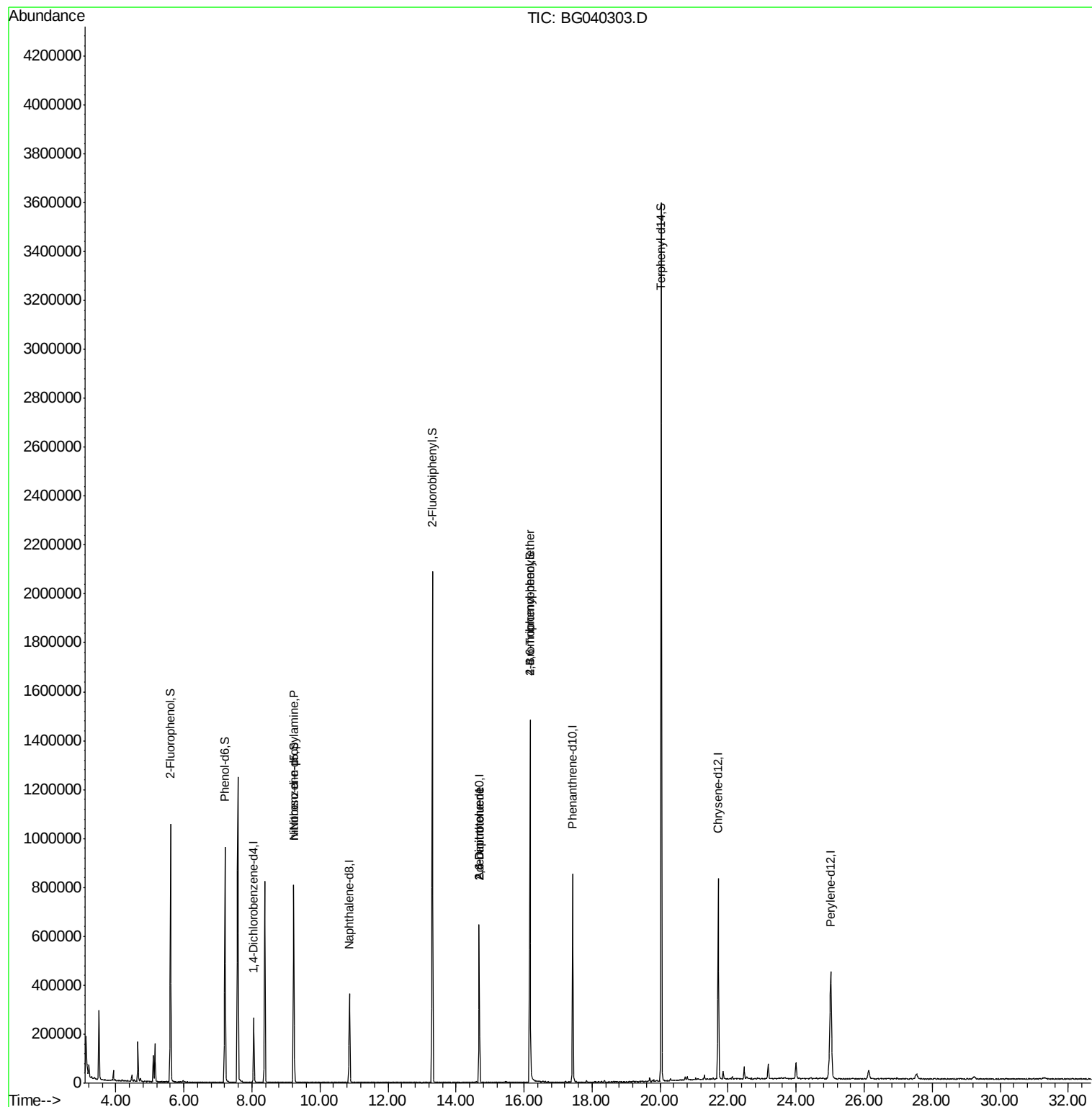
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 73322    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.87 | 136  | 312539   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.68 | 164  | 219023   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.43 | 188  | 540534   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.71 | 240  | 532089   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 25.02 | 264  | 536177   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 468528   | 106.23 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 581825   | 95.45  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 487635   | 82.93  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 288784   | 122.00 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 1119491  | 75.74  | ng    | -0.01    |
| 79) Terphenyl-d14              | 20.04 | 244  | 1835245  | 77.59  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 61634    | 14.103 | ng    | # 71     |
| 51) 2,6-Dinitrotoluene         | 14.68 | 165  | 28714    | 7.460  | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 28714    | 5.369  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 22036    | 3.623  | ng    | # 1      |

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

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Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Apr 03 00:51:19 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 28 05:47:00 2019  
Response via : Initial Calibration



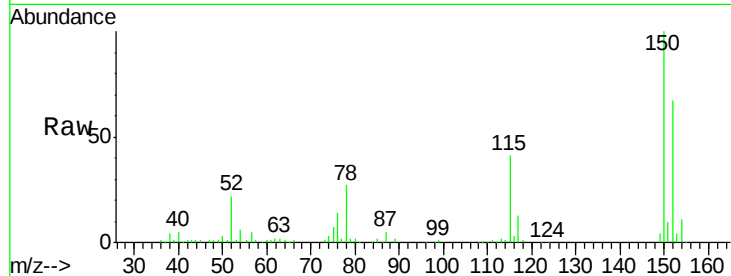


#1

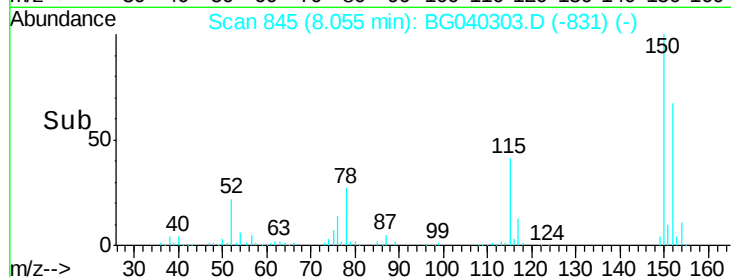
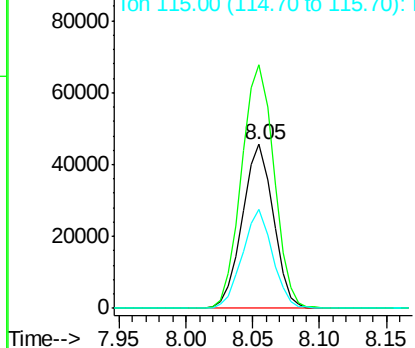
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 845  
Delta R.T. -0.01 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 73322  
Ion Ratio Lower Upper  
152 100  
150 148.5 123.7 185.5  
115 60.4 46.9 70.3



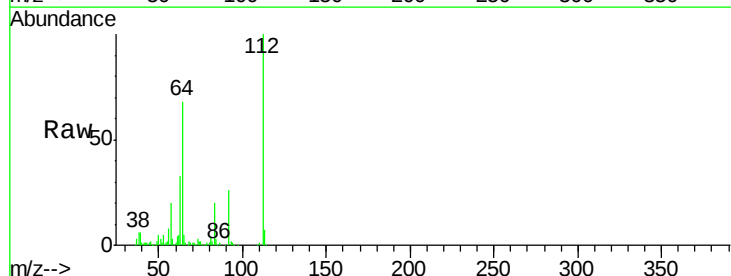
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



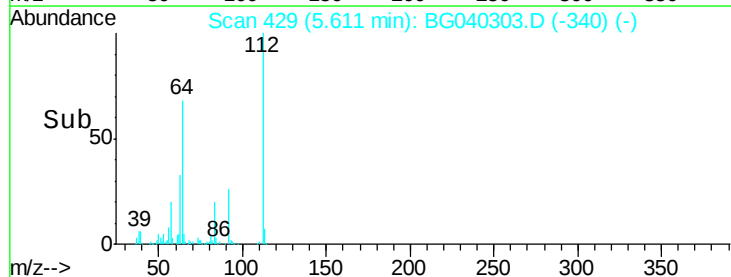
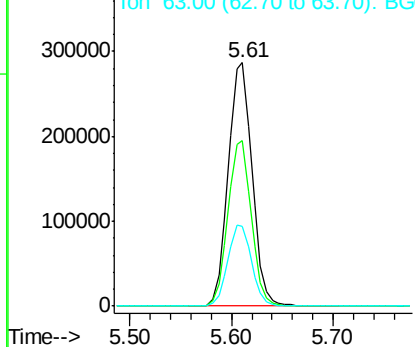
#5

2-Fluorophenol  
Concen: 106.228 ng  
RT: 5.61 min Scan# 429  
Delta R.T. -0.01 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

Tgt Ion:112 Resp: 468528  
Ion Ratio Lower Upper  
112 100  
64 67.7 54.2 81.2  
63 32.9 26.4 39.6



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: 95.452 ng

RT: 7.21 min Scan# 701

Delta R.T. -0.01 min

Lab File: BG040303.D

Acq: 2 Apr 2019 19:18

Instrument :

BNA\_G

ClientSampleId :

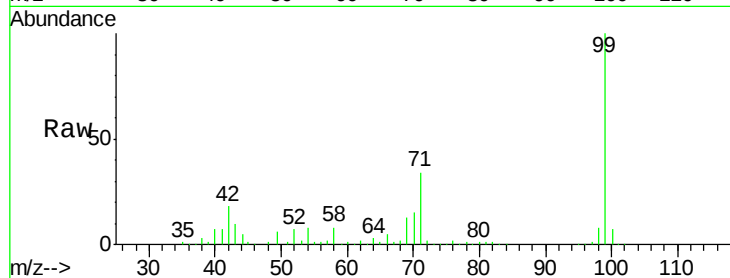
Tot Ion: 99 Resp: 581825

Ion Ratio Lower Upper

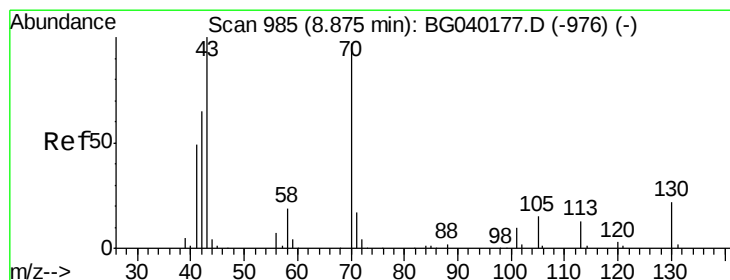
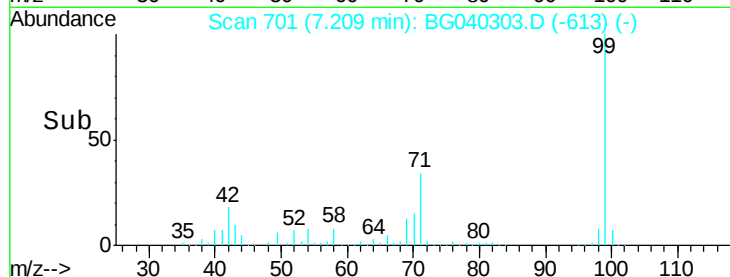
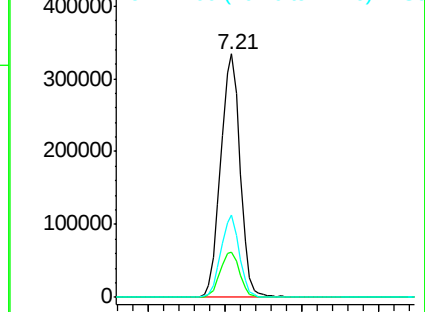
99 100

42 18.4 16.2 24.2

71 33.8 26.8 40.2



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: 14.103 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.36 min

Lab File: BG040303.D

Acq: 2 Apr 2019 19:18

Tgt Ion: 70 Resp: 61634

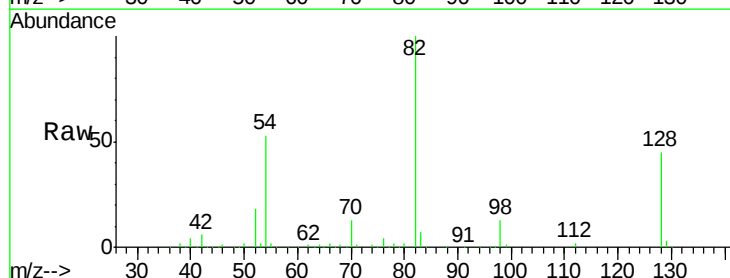
Ion Ratio Lower Upper

70 100

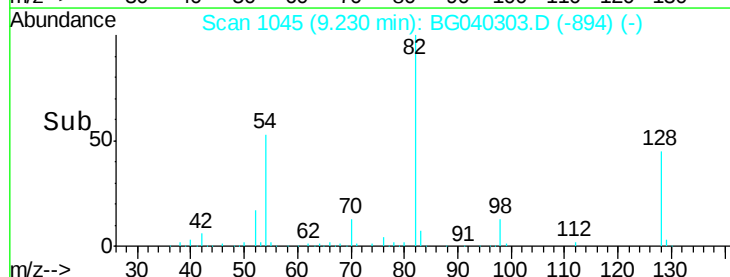
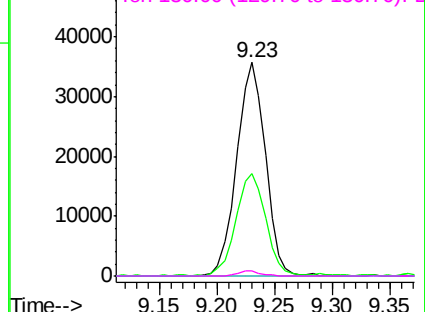
42 47.9 54.0 81.0#

101 0.0 8.6 13.0#

130 2.6 18.2 27.2#



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

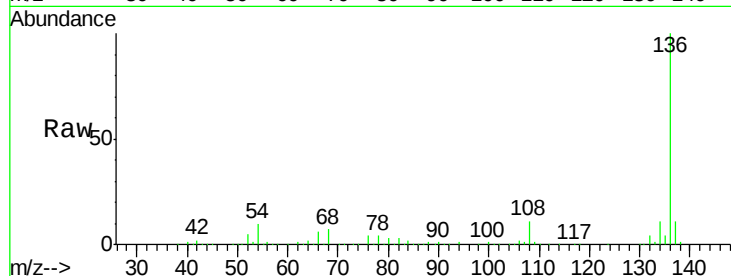




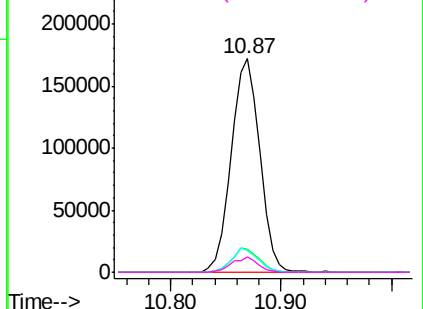
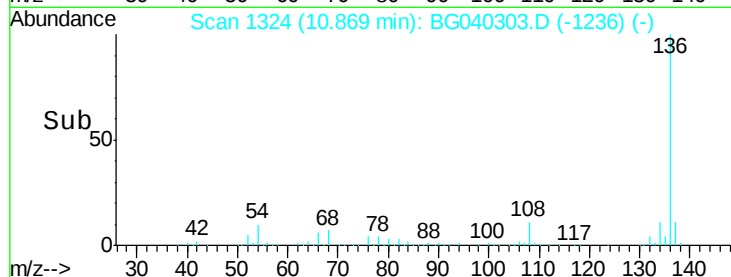
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

Instrument :  
BNA\_G  
ClientSampled :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 312539   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.1  | 8.9 13.3 |
| 54          | 10.3  | 9.6 14.4 |
| 68          | 7.2   | 5.1 7.7  |

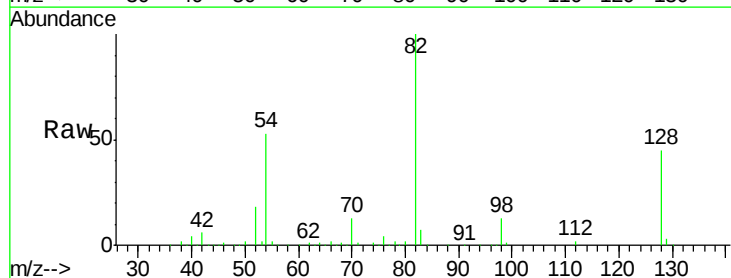


Abundance Ion 136.00 (135.70 to 136.70): B  
Ion 137.00 (136.70 to 137.70): B  
Ion 54.00 (53.70 to 54.70): B  
Ion 68.00 (67.70 to 68.70): B

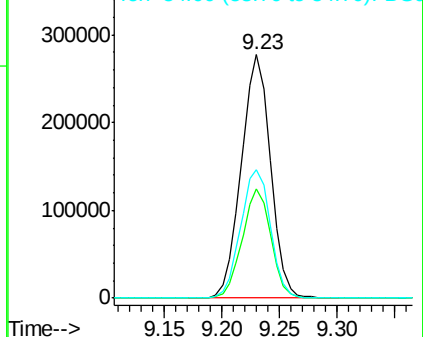
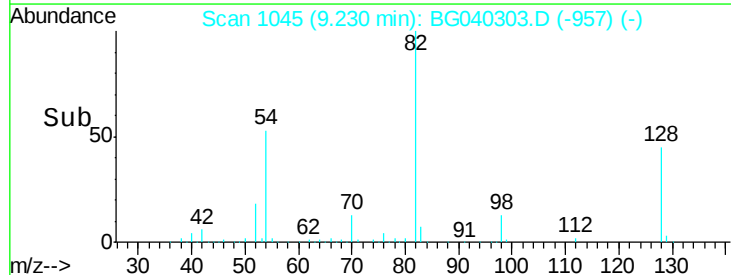


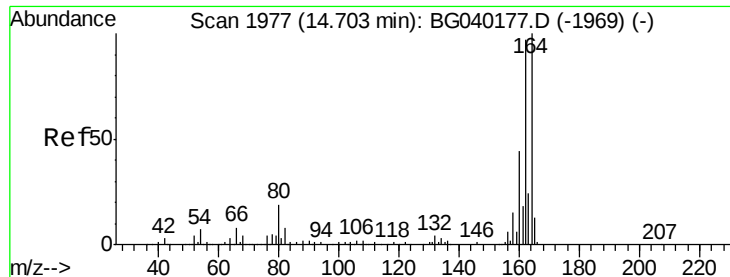
#23  
Nitrobenzene-d5  
Concen: 82.932 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 487635    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 45.0  | 35.8 53.8 |
| 54          | 52.9  | 46.2 69.2 |



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

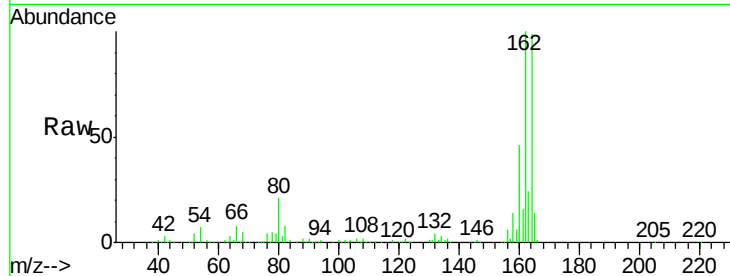




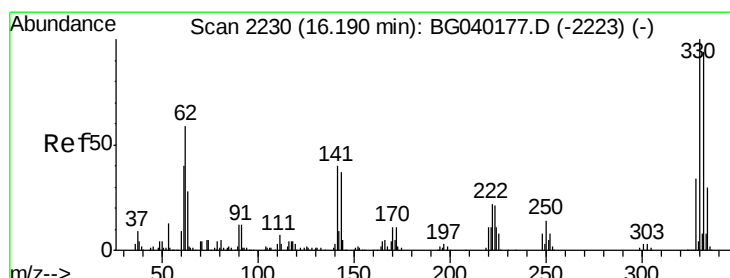
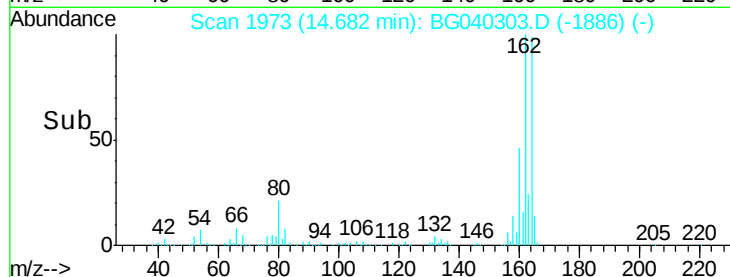
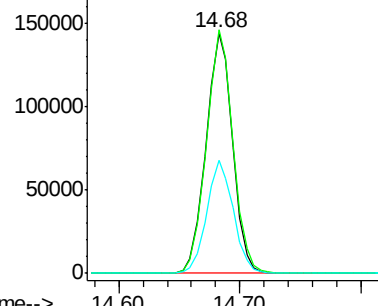
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.68 min Scan# 1973  
Delta R.T. -0.02 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 219023  
Ion Ratio Lower Upper  
164 100  
162 101.4 77.4 116.2  
160 47.1 35.3 52.9

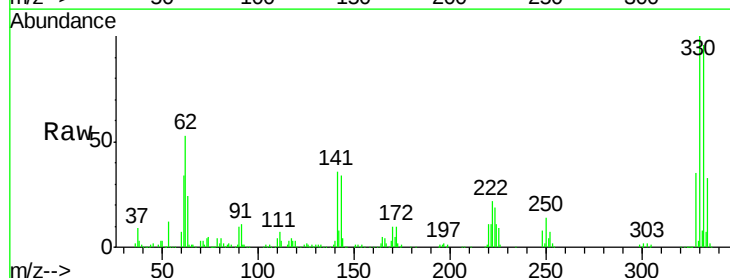


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

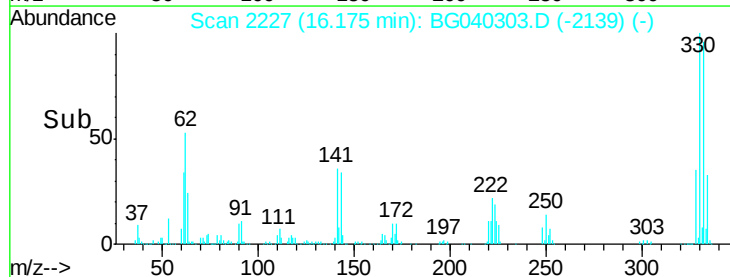
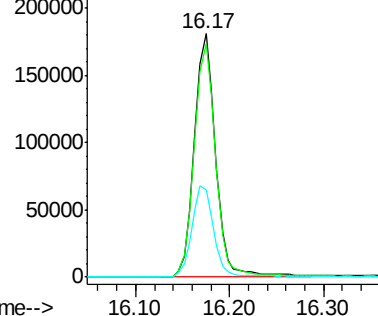


#42  
2,4,6-Tribromophenol  
Concen: 122.001 ng  
RT: 16.17 min Scan# 2227  
Delta R.T. -0.01 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

Tgt Ion:330 Resp: 288784  
Ion Ratio Lower Upper  
330 100  
332 97.1 76.6 115.0  
141 38.9 32.6 48.8



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

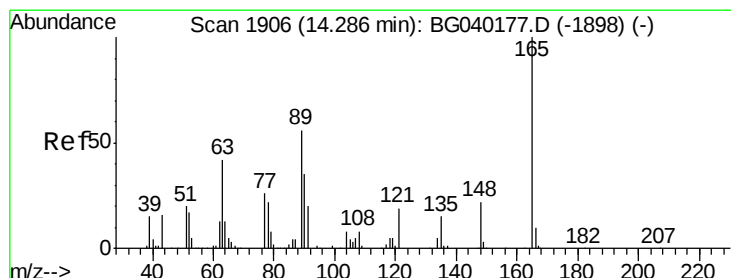
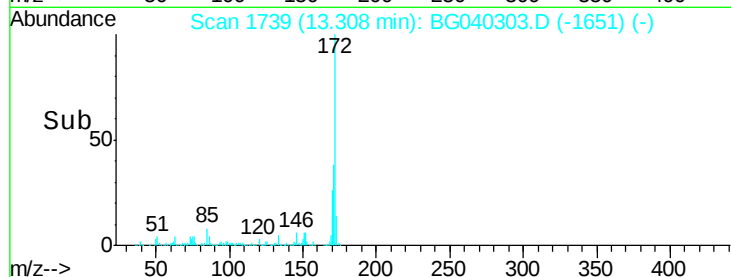
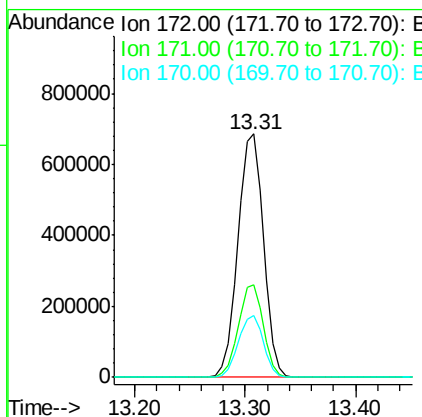
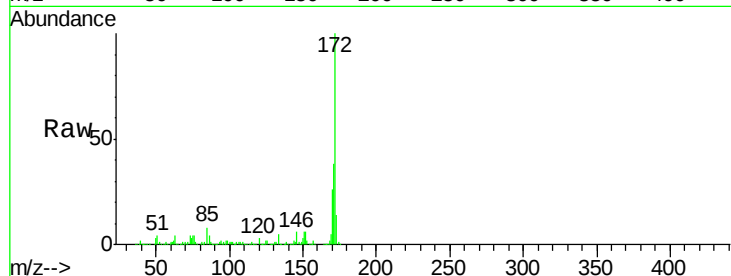




#45  
2-Fluorobiphenyl  
Concen: 75.737 ng  
RT: 13.31 min Scan# 1739  
Delta R.T. -0.01 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

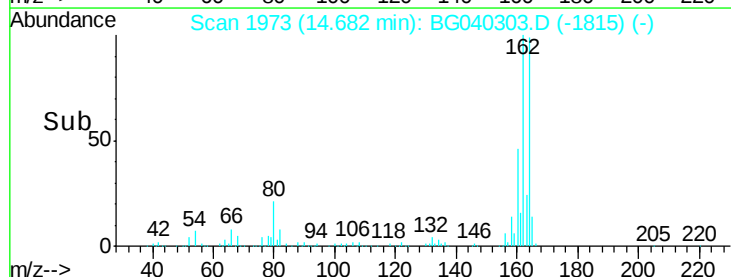
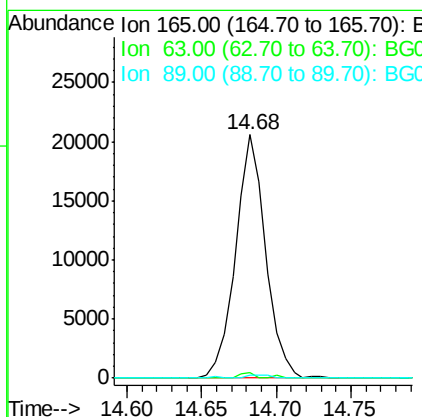
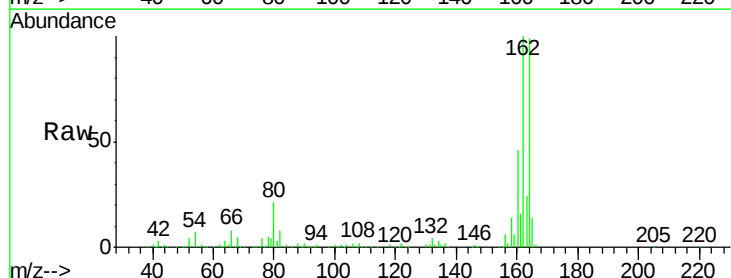
Instrument :  
BNA\_G  
ClientSampleId :

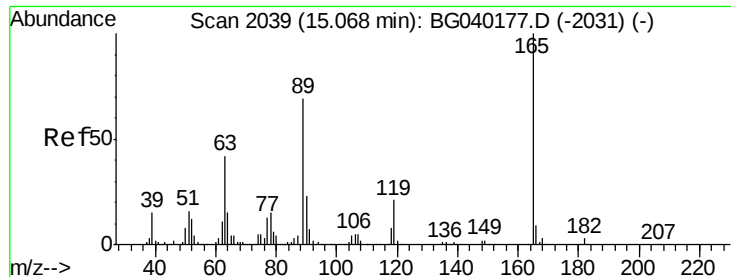
Tot Ion:172 Resp: 1119491  
Ion Ratio Lower Upper  
172 100  
171 37.9 30.5 45.7  
170 25.6 20.1 30.1



#51  
2,6-Dinitrotoluene  
Concen: 7.460 ng  
RT: 14.68 min Scan# 1973  
Delta R.T. 0.40 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

Tgt Ion:165 Resp: 28714  
Ion Ratio Lower Upper  
165 100  
63 2.1 44.1 66.1#  
89 1.4 44.9 67.3#

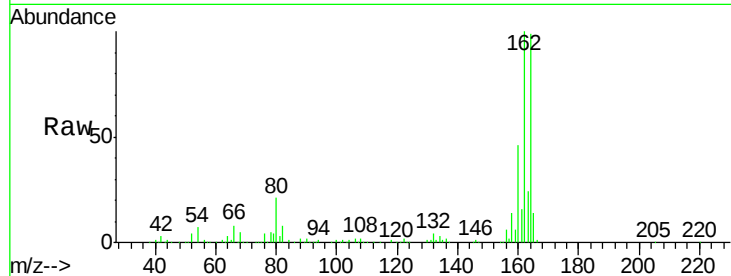




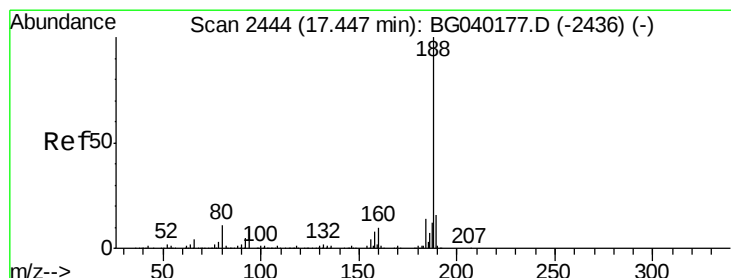
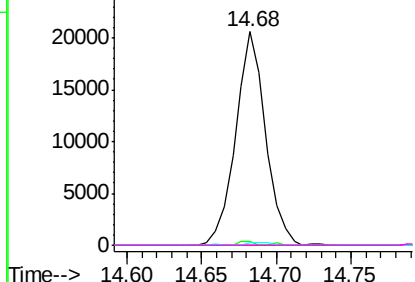
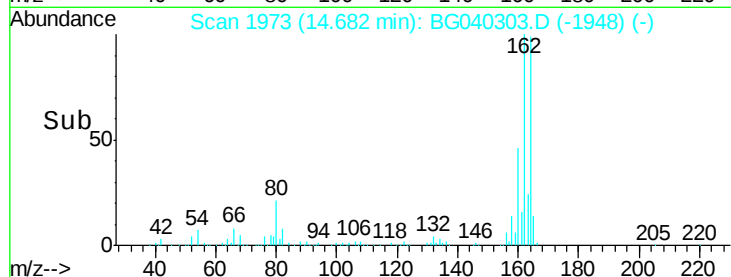
#57  
 2,4-Dinitrotoluene  
 Concen: 5.369 ng  
 RT: 14.68 min Scan# 1973  
 Delta R.T. -0.39 min  
 Lab File: BG040303.D  
 Acq: 2 Apr 2019 19:18

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 28714  
 Ion Ratio Lower Upper  
 165 100  
 63 2.1 33.8 50.6#  
 89 1.4 55.4 83.2#  
 182 0.0 2.2 3.4#

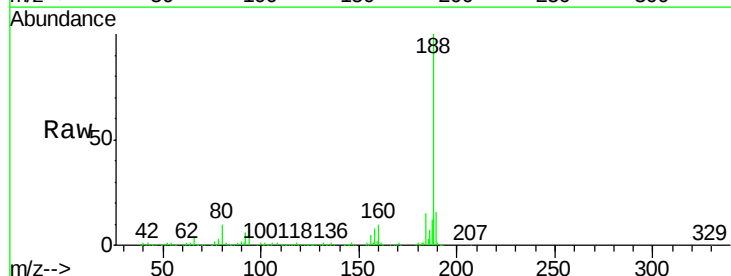


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

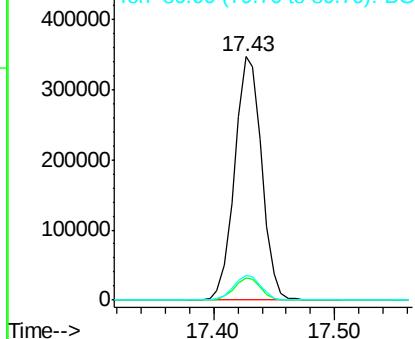
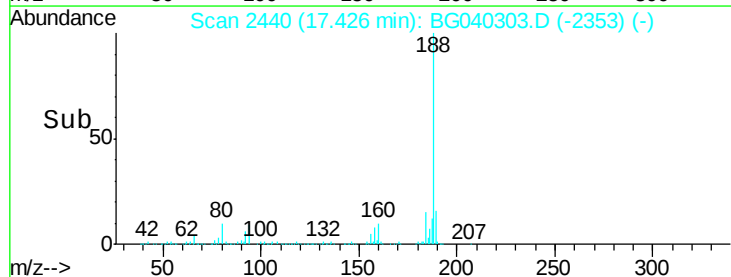


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2440  
 Delta R.T. -0.02 min  
 Lab File: BG040303.D  
 Acq: 2 Apr 2019 19:18

Tgt Ion:188 Resp: 540534  
 Ion Ratio Lower Upper  
 188 100  
 94 9.3 7.0 10.4  
 80 10.0 8.6 13.0



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

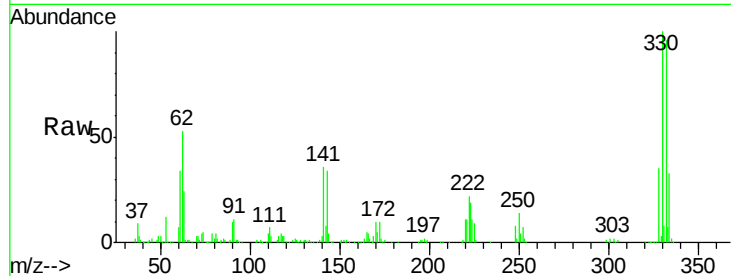




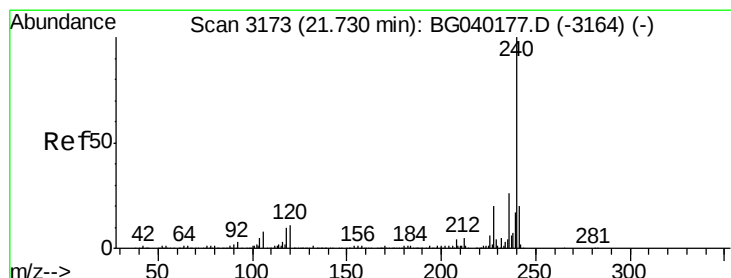
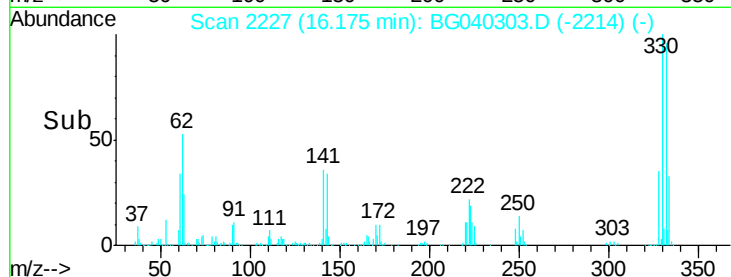
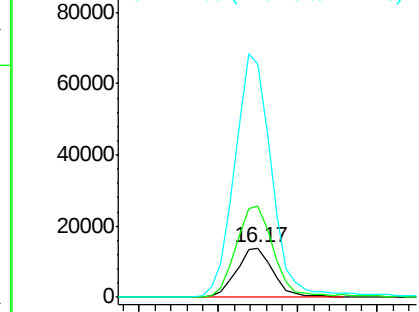
#67  
4-Bromophenyl-phenylether  
Concen: 3.623 ng  
RT: 16.17 min Scan# 2227  
Delta R.T. -0.46 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 22036  
Ion Ratio Lower Upper  
248 100  
250 185.8 76.4 114.6#  
141 471.9 53.8 80.8#

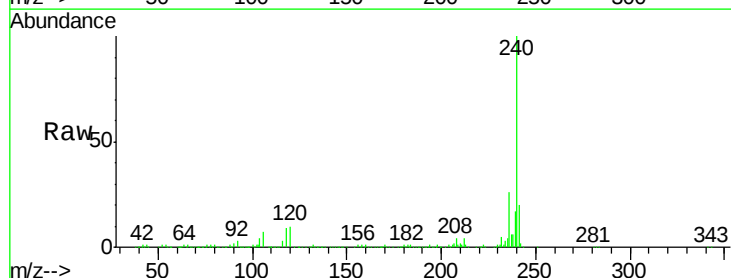


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

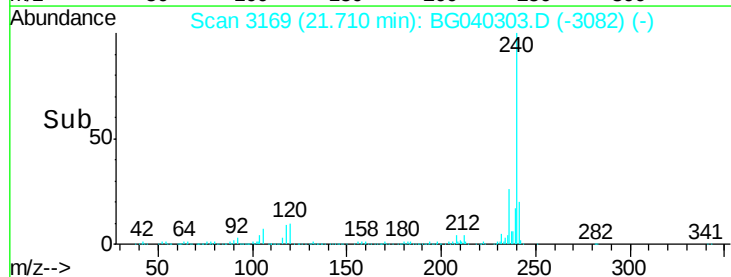
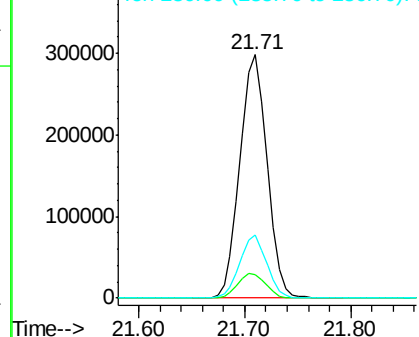


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.71 min Scan# 3169  
Delta R.T. -0.02 min  
Lab File: BG040303.D  
Acq: 2 Apr 2019 19:18

Tgt Ion:240 Resp: 532089  
Ion Ratio Lower Upper  
240 100  
120 9.5 8.4 12.6  
236 26.1 20.8 31.2



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





#79

Terphenyl-d14

Concen: 77.593 ng

RT: 20.04 min Scan# 2884

Delta R.T. -0.01 min

Lab File: BG040303.D

Acq: 2 Apr 2019 19:18

Instrument :

BNA\_G

ClientSampleId :

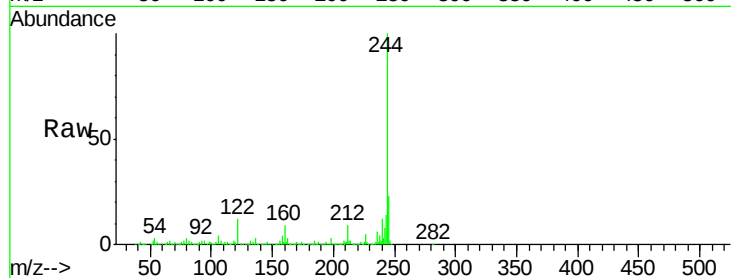
Tot Ion:244 Resp: 1835245

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.1   | 7.0   | 10.6  |
| 122 | 11.6  | 8.5   | 12.7  |

244 100

212 9.1 7.0 10.6

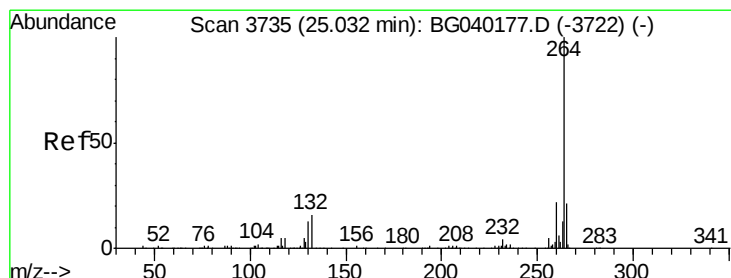
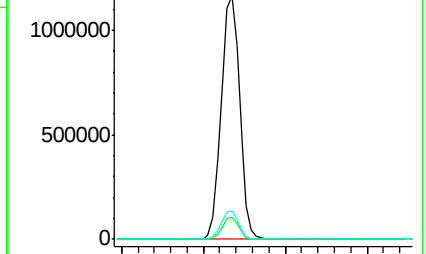
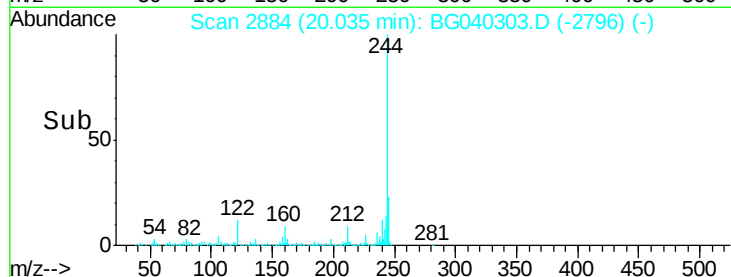
122 11.6 8.5 12.7



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: 25.02 min Scan# 3733

Delta R.T. -0.01 min

Lab File: BG040303.D

Acq: 2 Apr 2019 19:18

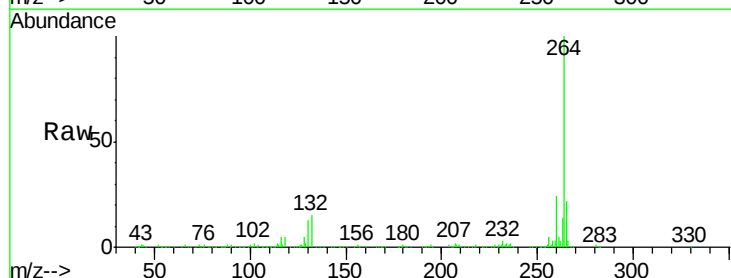
Tgt Ion:264 Resp: 536177

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.8  | 17.9  | 26.9  |
| 265 | 21.8  | 16.8  | 25.2  |

264 100

260 23.8 17.9 26.9

265 21.8 16.8 25.2



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

