

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG051019\  
 Data File : BG040871.D  
 Acq On : 11 May 2019 7:26  
 Operator : HP/JU  
 Sample : K2647-08  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SU-02-050919-B

Quant Time: May 12 02:31:56 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG042319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 24 05:35:33 2019  
 Response via : Initial Calibration

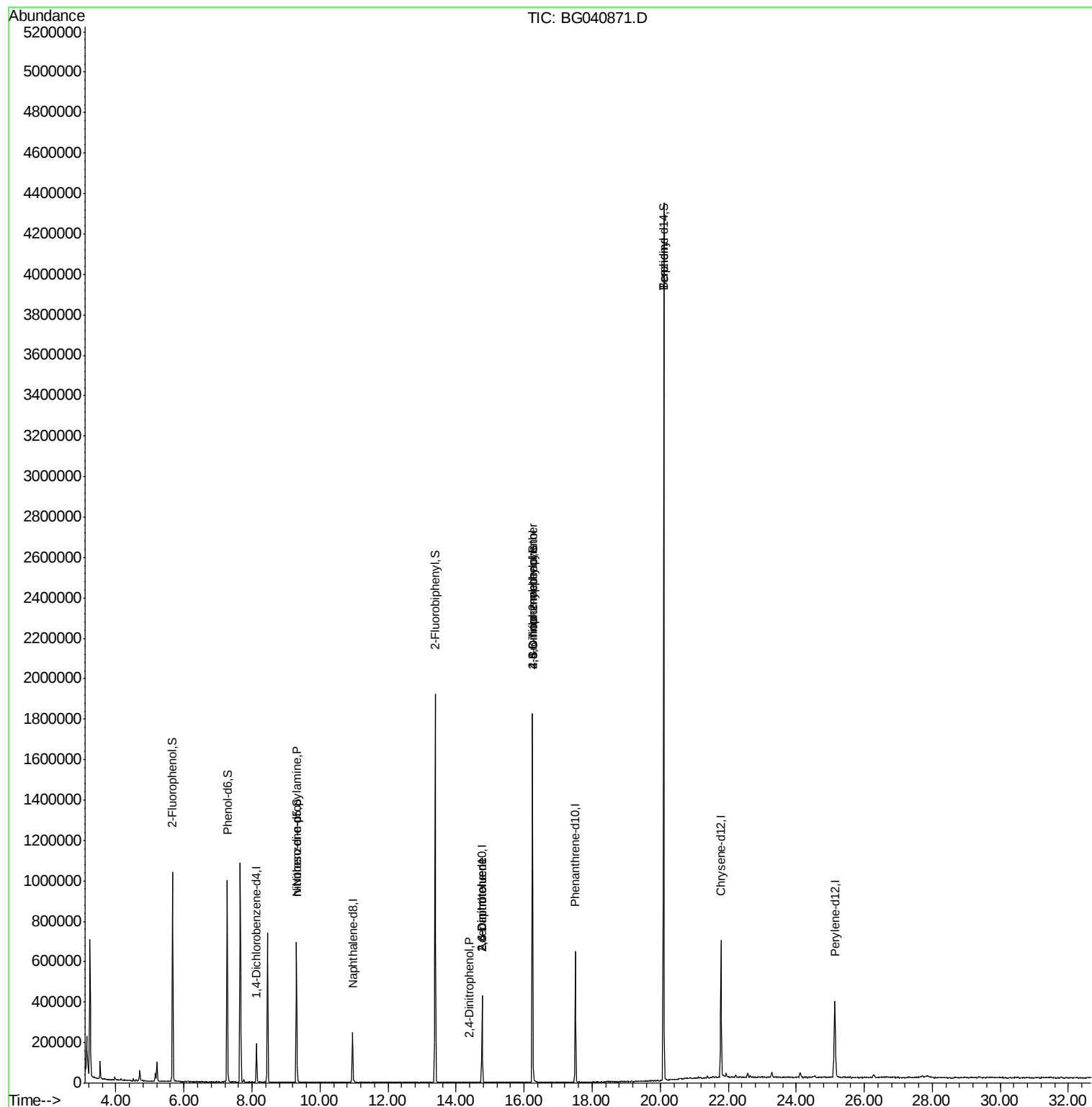
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.14  | 152  | 48685    | 20.00     | ng     | -0.02    |
| 21) Naphthalene-d8             | 10.96 | 136  | 195182   | 20.00     | ng     | -0.03    |
| 39) Acenaphthene-d10           | 14.76 | 164  | 145487   | 20.00     | ng     | -0.03    |
| 64) Phenanthrene-d10           | 17.51 | 188  | 406961   | 20.00     | ng     | -0.03    |
| 76) Chrysene-d12               | 21.78 | 240  | 433850   | 20.00     | ng     | -0.04    |
| 87) Perylene-d12               | 25.14 | 264  | 452833   | 20.00     | ng     | -0.06    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.67  | 112  | 385628   | 139.63    | ng     | -0.02    |
| 7) Phenol-d6                   | 7.27  | 99   | 517807   | 121.77    | ng     | -0.02    |
| 23) Nitrobenzene-d5            | 9.31  | 82   | 405693   | 96.04     | ng     | -0.03    |
| 42) 2,4,6-Tribromophenol       | 16.25 | 330  | 352276   | 176.16    | ng     | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.39 | 172  | 930250   | 92.34     | ng     | -0.03    |
| 79) Terphenyl-d14              | 20.10 | 244  | 1927368  | 98.42     | ng     | -0.03    |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 7.28  | 77   | 1075     | Below Cal | Qvalue | # 6      |
| 19) n-Nitroso-di-n-propylamine | 9.31  | 70   | 57731    | 15.081 ng | #      | 72       |
| 51) 2,6-Dinitrotoluene         | 14.76 | 165  | 19768    | 8.321 ng  | #      | 14       |
| 54) 2,4-Dinitrophenol          | 14.38 | 184  | 60       | 7.056 ng  | #      | 21       |
| 57) 2,4-Dinitrotoluene         | 14.76 | 165  | 19768    | 6.123 ng  | #      | 16       |
| 65) 4,6-Dinitro-2-methylphenol | 16.24 | 198  | 1278     | 7.644 ng  | #      | 71       |
| 67) 4-Bromophenyl-phenylether  | 16.25 | 248  | 25899    | 5.108 ng  | #      | 1        |
| 77) Benzydine                  | 20.10 | 184  | 34713    | 2.922 ng  | #      | 94       |

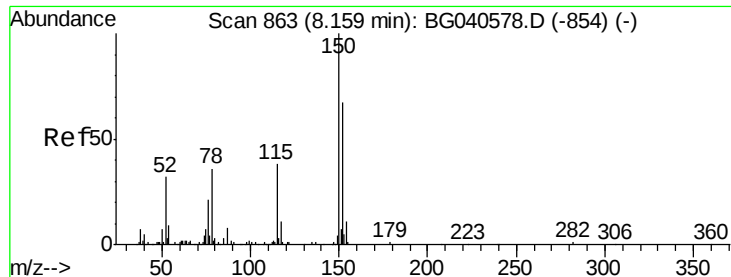
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG042319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 24 05:35:33 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

Instrument :

BNA\_G

ClientSampleId :

SU-02-050919-B

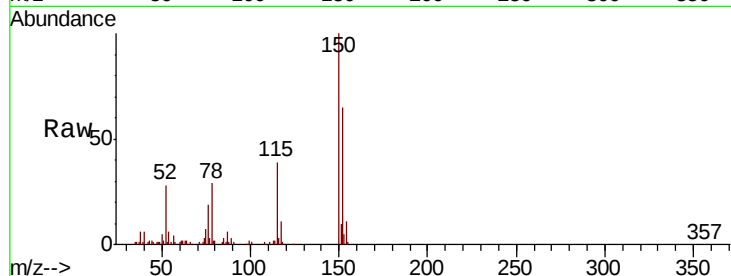
Tgt Ion:152 Resp: 48685

Ion Ratio Lower Upper

152 100

150 155.0 120.2 180.2

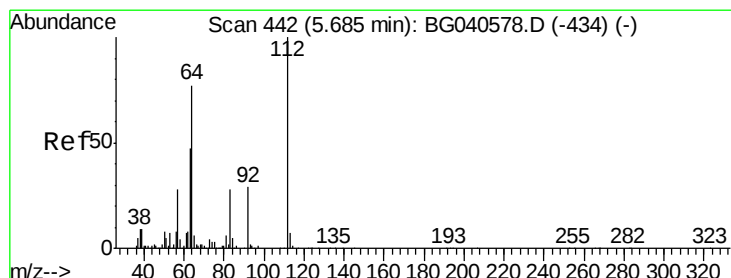
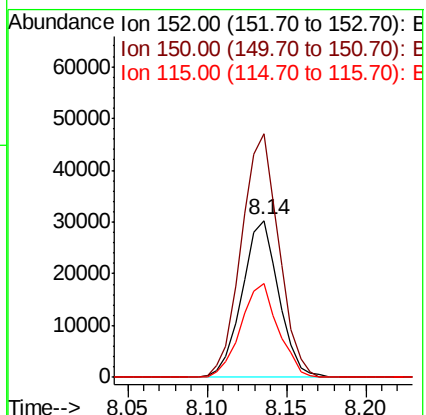
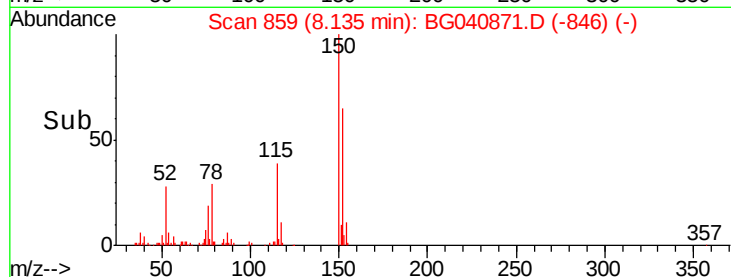
115 59.8 46.2 69.2



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: 139.626 ng

RT: 5.67 min Scan# 439

Delta R.T. -0.02 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

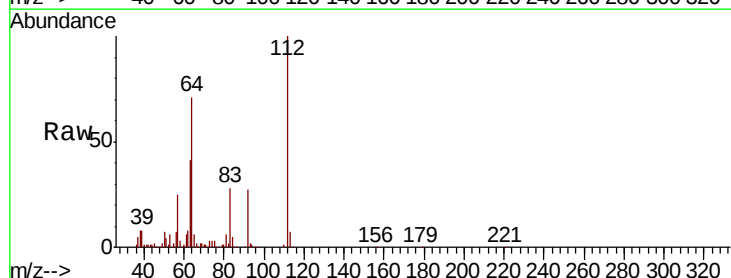
Tgt Ion:112 Resp: 385628

Ion Ratio Lower Upper

112 100

64 71.1 61.4 92.0

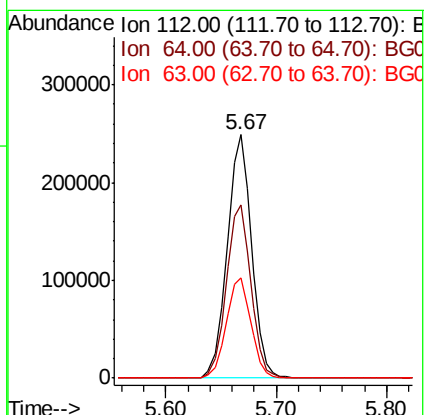
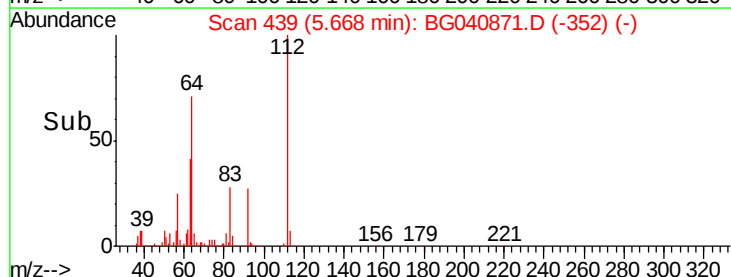
63 41.2 37.8 56.6

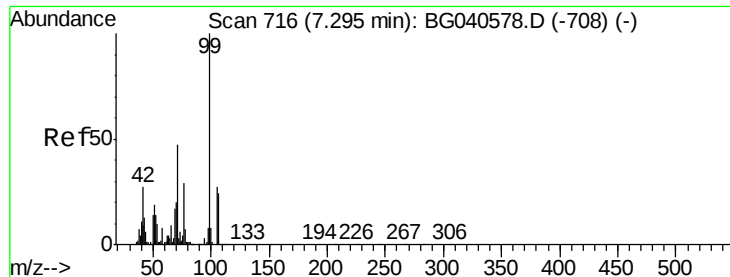


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 121.766 ng

RT: 7.27 min Scan# 712

Delta R.T. -0.02 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

Instrument :

BNA\_G

ClientSampleId :

SU-02-050919-B

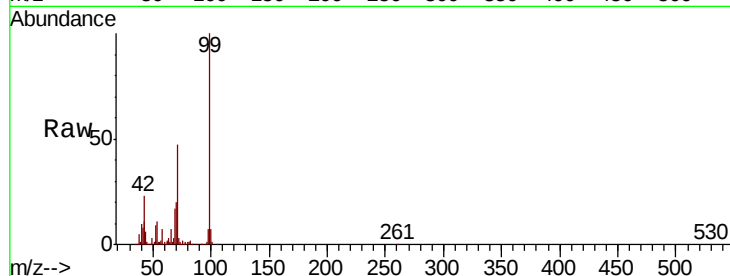
Tgt Ion: 99 Resp: 517807

Ion Ratio Lower Upper

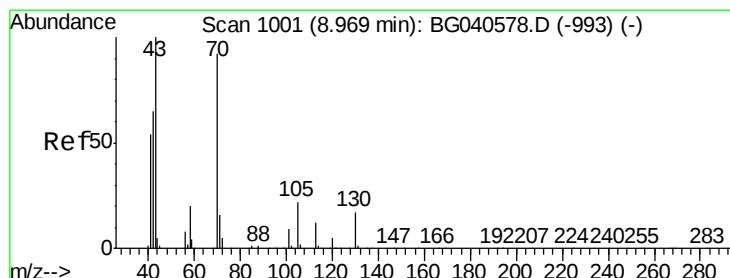
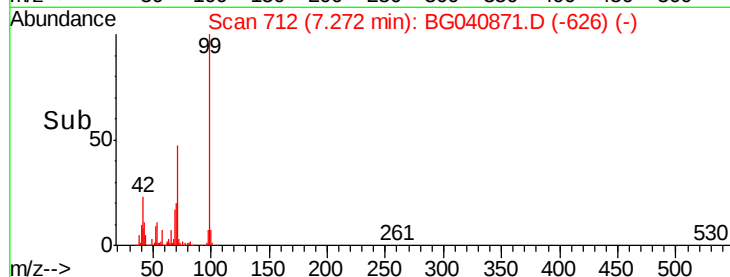
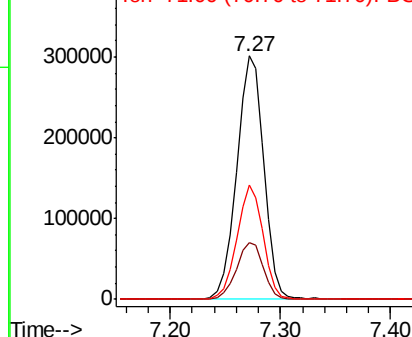
99 100

42 23.5 21.8 32.8

71 46.9 38.6 57.8



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: 15.081 ng

RT: 9.31 min Scan# 1059

Delta R.T. 0.34 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

Tgt Ion: 70 Resp: 57731

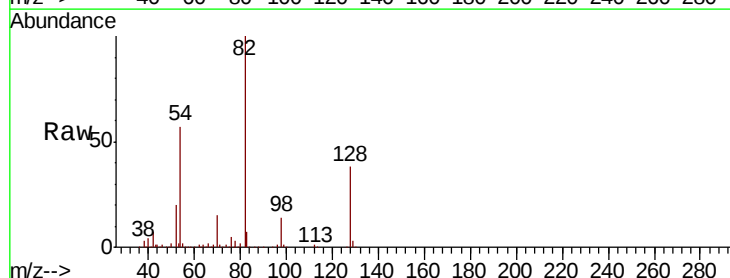
Ion Ratio Lower Upper

70 100

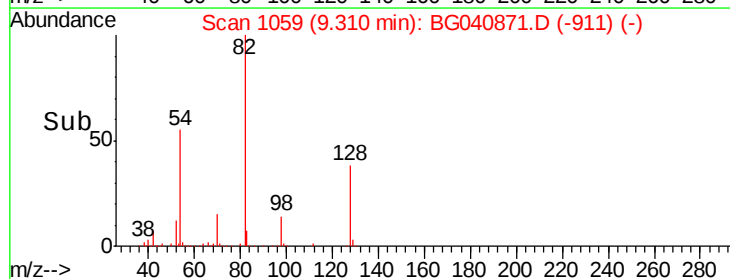
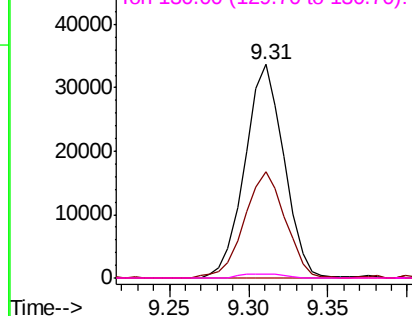
42 49.6 57.1 85.7#

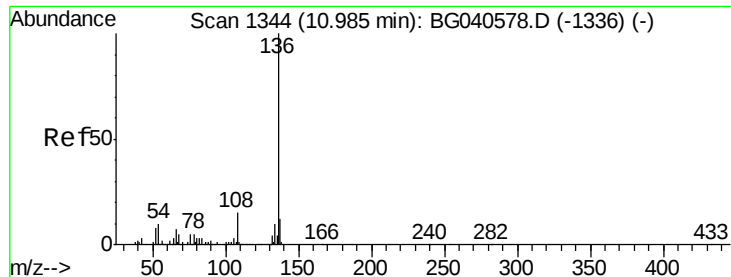
101 0.0 7.8 11.8#

130 1.5 14.6 21.8#



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

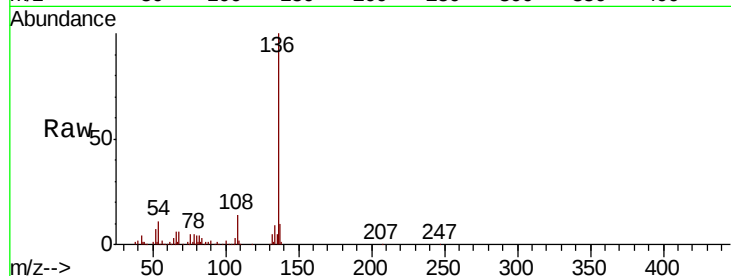




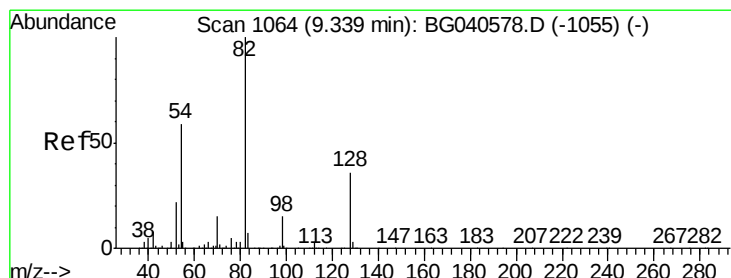
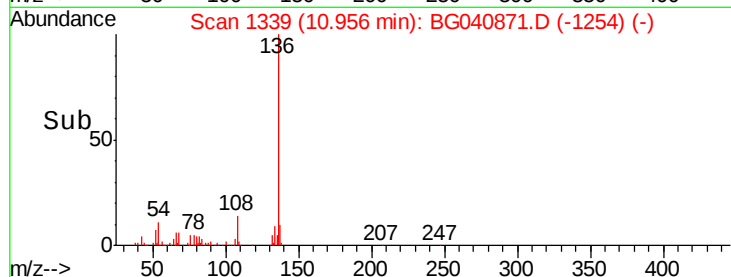
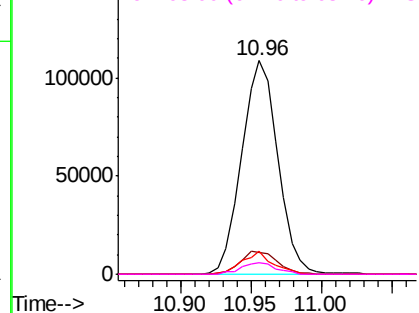
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.96 min Scan# 1339  
Delta R.T. -0.03 min  
Lab File: BG040871.D  
Acq: 11 May 2019 7:26

Instrument :  
BNA\_G  
ClientSampleId :  
SU-02-050919-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 195182 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.0  | 9.7   | 14.5   |
| 54       | 10.6  | 8.6   | 12.8   |
| 68       | 5.5   | 4.8   | 7.2    |

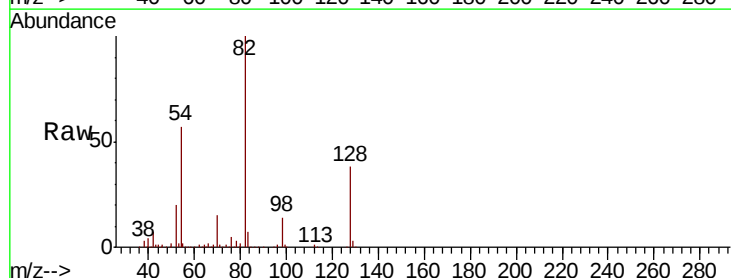


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

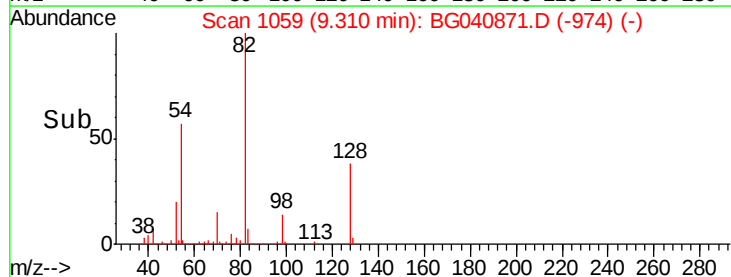
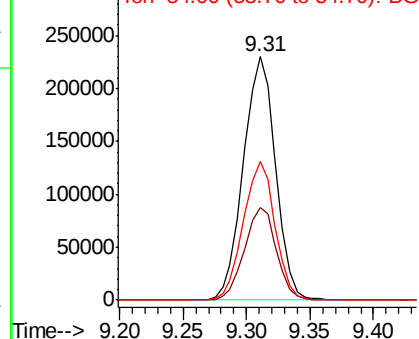


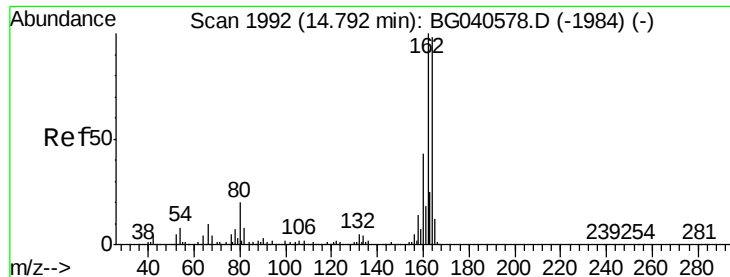
#23  
Nitrobenzene-d5  
Concen: 96.041 ng  
RT: 9.31 min Scan# 1059  
Delta R.T. -0.03 min  
Lab File: BG040871.D  
Acq: 11 May 2019 7:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 405693 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 37.8  | 28.9  | 43.3   |
| 54       | 57.0  | 47.2  | 70.8   |



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: 14.76 min Scan# 1987

Delta R.T. -0.03 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

Instrument :

BNA\_G

ClientSampleId :

SU-02-050919-B

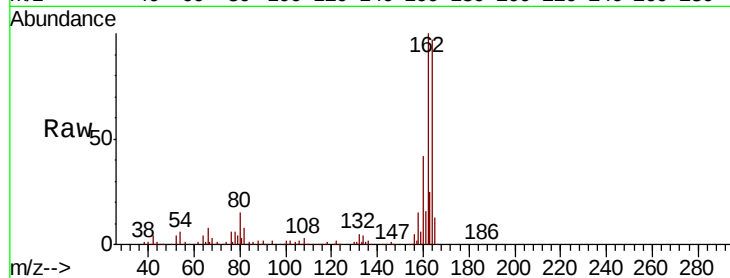
Tgt Ion:164 Resp: 145487

Ion Ratio Lower Upper

164 100

162 103.6 81.9 122.9

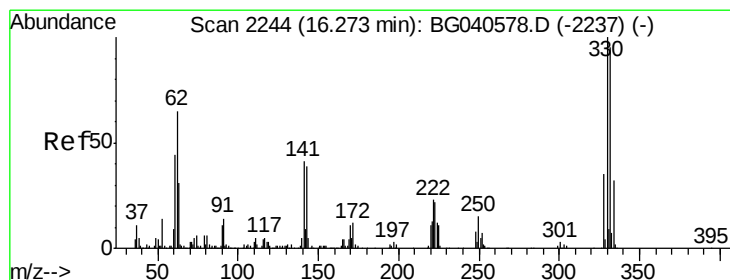
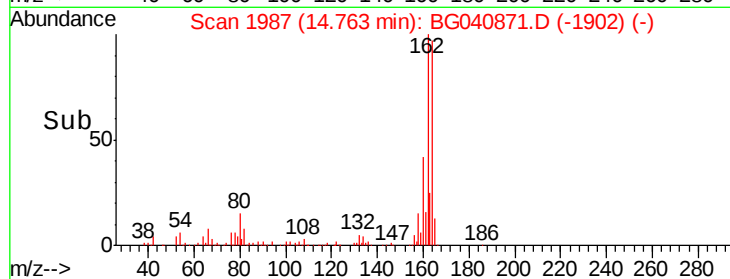
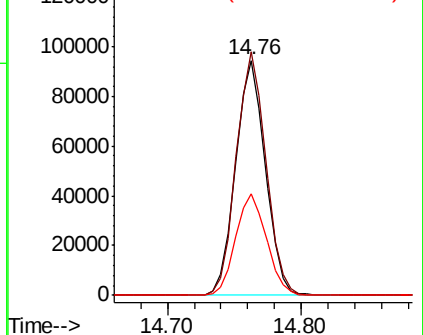
160 43.2 35.4 53.2



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: 176.160 ng

RT: 16.25 min Scan# 2240

Delta R.T. -0.02 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

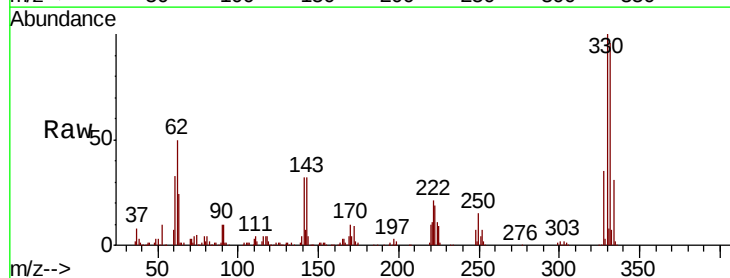
Tgt Ion:330 Resp: 352276

Ion Ratio Lower Upper

330 100

332 94.3 75.9 113.9

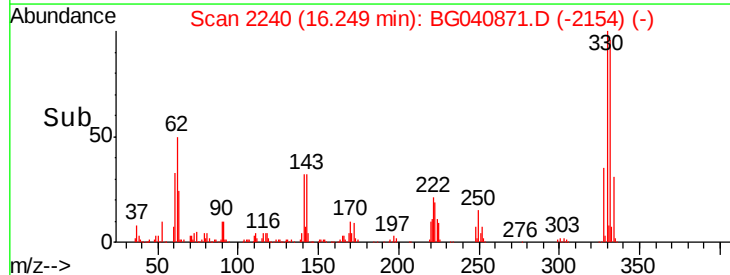
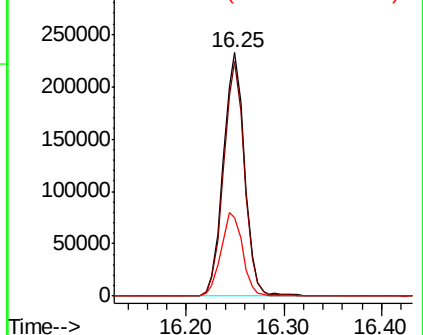
141 34.6 32.4 48.6

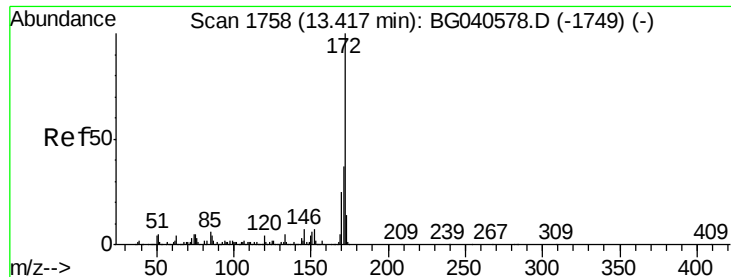


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

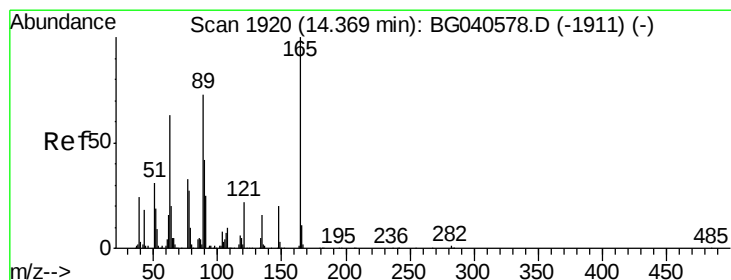
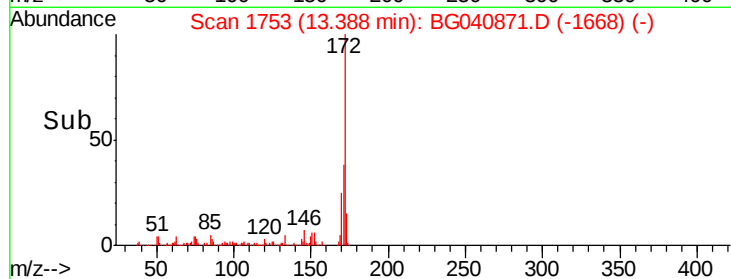
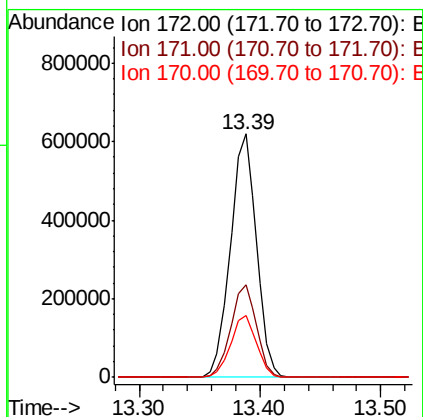
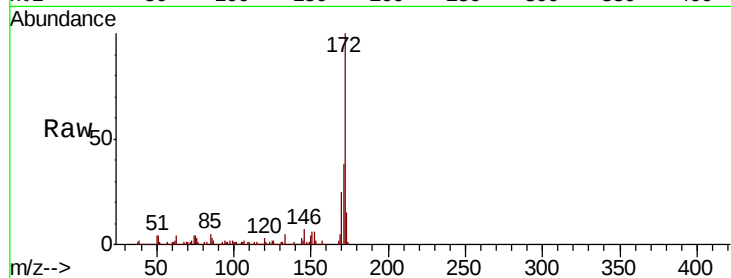




#45  
 2-Fluorobiphenyl  
 Concen: 92.343 ng  
 RT: 13.39 min Scan# 1753  
 Delta R.T. -0.03 min  
 Lab File: BG040871.D  
 Acq: 11 May 2019 7:26

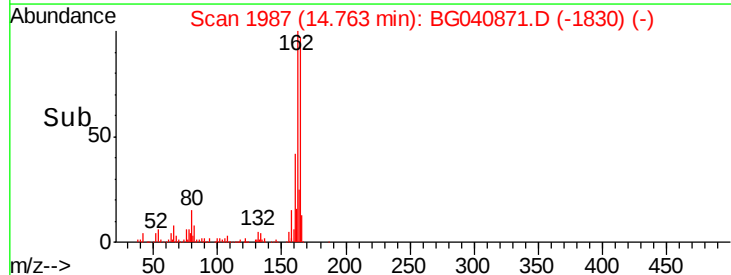
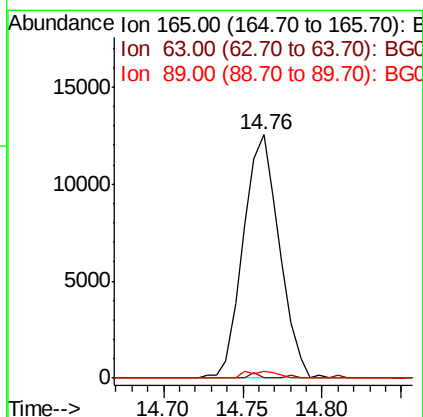
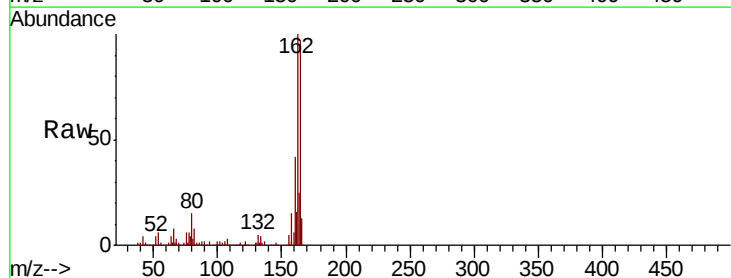
Instrument :  
 BNA\_G  
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 SU-02-050919-B

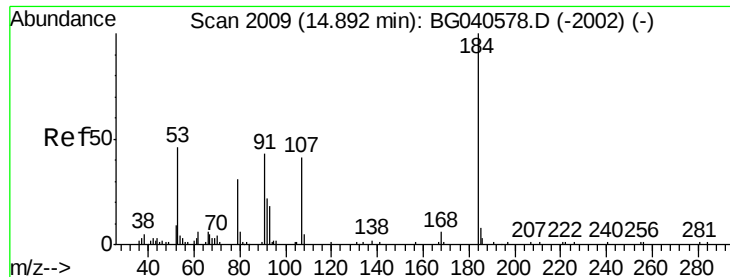
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 930250 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 38.2  | 29.4  | 44.2   |
| 170      | 25.4  | 19.9  | 29.9   |



#51  
 2,6-Dinitrotoluene  
 Concen: 8.321 ng  
 RT: 14.76 min Scan# 1987  
 Delta R.T. 0.39 min  
 Lab File: BG040871.D  
 Acq: 11 May 2019 7:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 19768 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 61.0  | 91.4# |
| 89       | 2.9   | 58.6  | 87.8# |

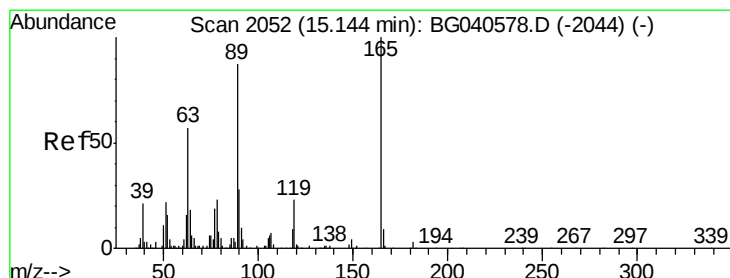
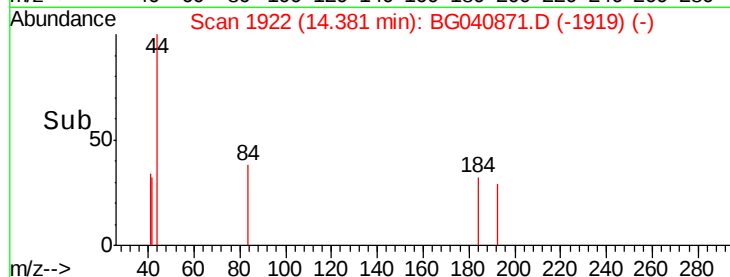
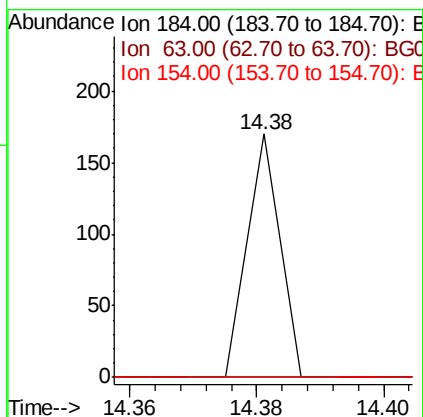
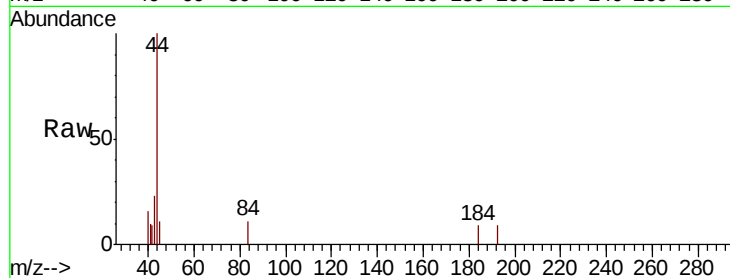




#54  
2,4-Dinitrophenol  
Concen: 7.056 ng  
RT: 14.38 min Scan# 1922  
Delta R.T. -0.51 min  
Lab File: BG040871.D  
Acq: 11 May 2019 7:26

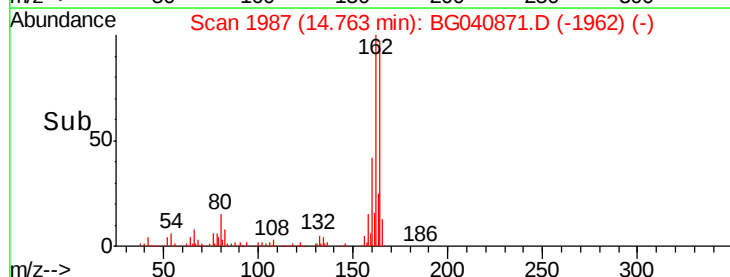
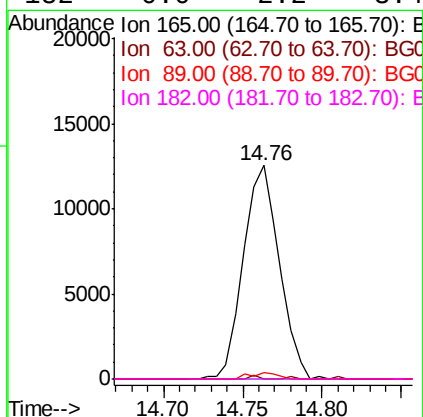
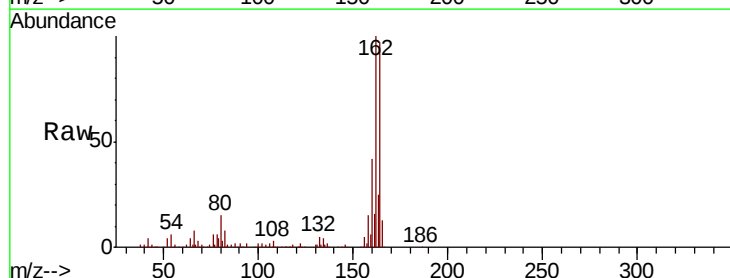
Instrument :  
BNA\_G  
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SU-02-050919-B

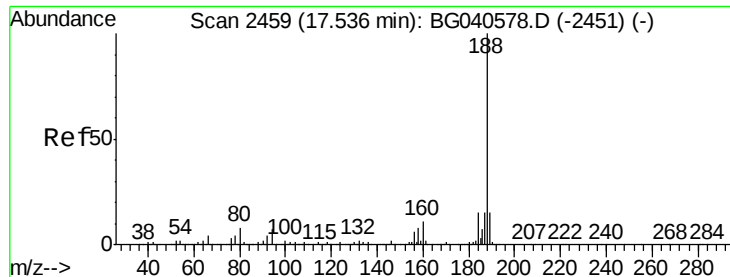
Tgt Ion:184 Resp: 60  
Ion Ratio Lower Upper  
184 100  
63 0.0 51.8 77.6#  
154 0.0 43.6 65.4#



#57  
2,4-Dinitrotoluene  
Concen: 6.123 ng  
RT: 14.76 min Scan# 1987  
Delta R.T. -0.38 min  
Lab File: BG040871.D  
Acq: 11 May 2019 7:26

Tgt Ion:165 Resp: 19768  
Ion Ratio Lower Upper  
165 100  
63 0.0 45.8 68.8#  
89 2.9 69.4 104.2#  
182 0.0 2.2 3.4#

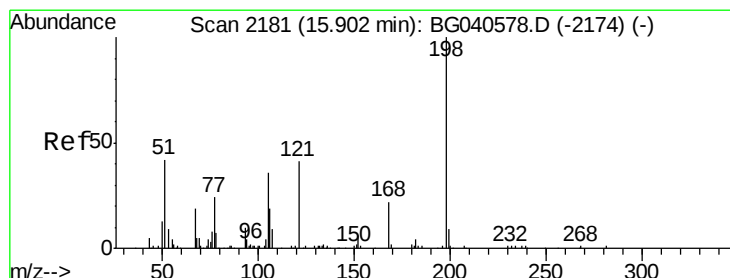
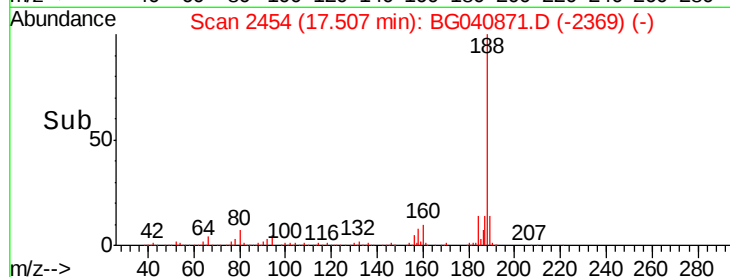
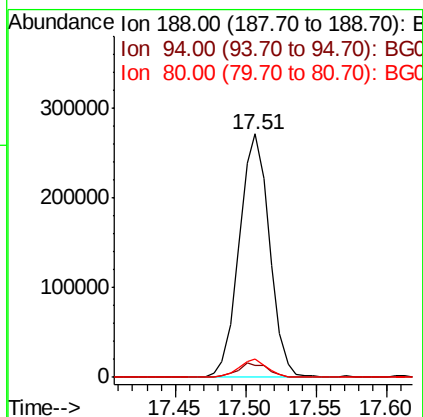
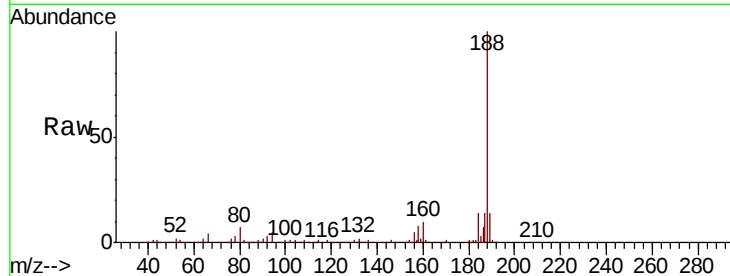




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.51 min Scan# 2454  
Delta R.T. -0.03 min  
Lab File: BG040871.D  
Acq: 11 May 2019 7:26

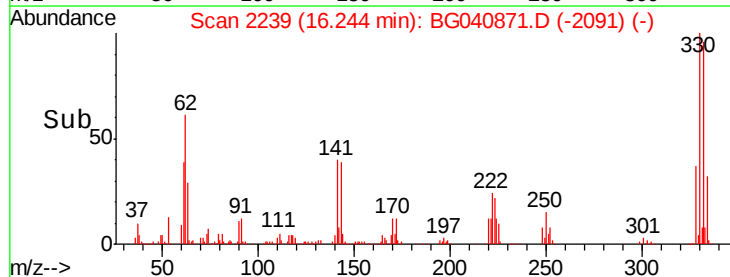
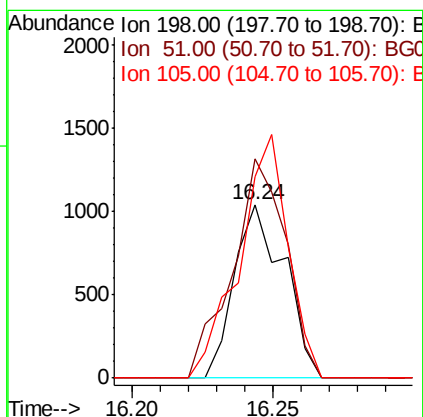
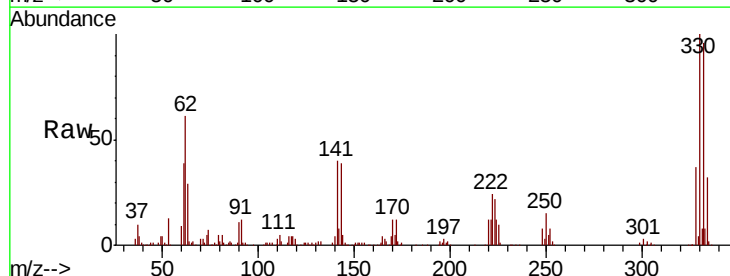
Instrument :  
BNA\_G  
ClientSampleId :  
SU-02-050919-B

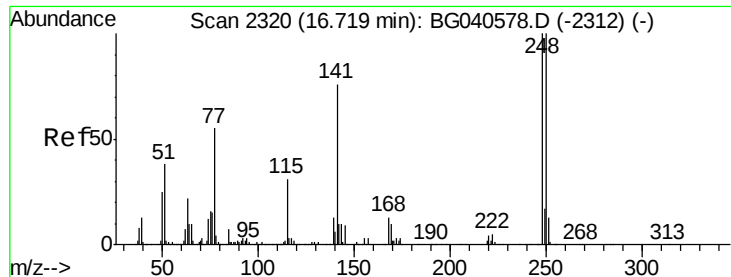
Tgt Ion:188 Resp: 406961  
Ion Ratio Lower Upper  
188 100  
94 4.9 5.6 8.4#  
80 7.3 6.4 9.6



#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.644 ng  
RT: 16.24 min Scan# 2239  
Delta R.T. 0.34 min  
Lab File: BG040871.D  
Acq: 11 May 2019 7:26

Tgt Ion:198 Resp: 1278  
Ion Ratio Lower Upper  
198 100  
51 30.6 35.9 75.9#  
105 28.1 21.2 61.2

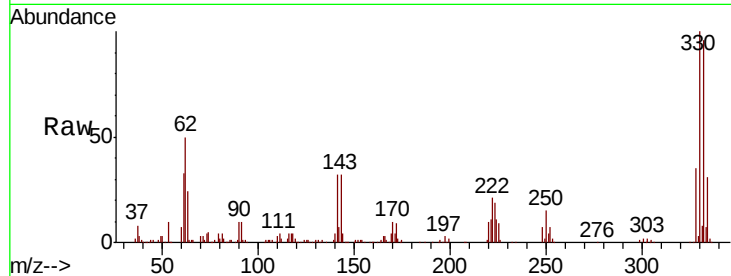




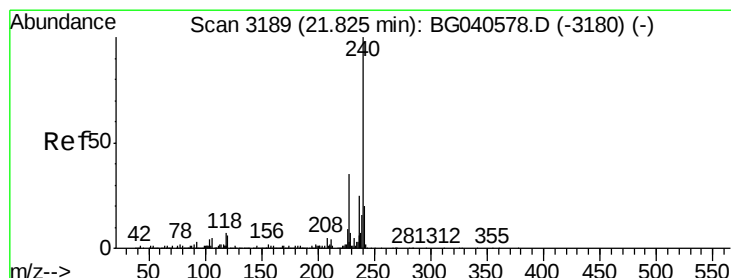
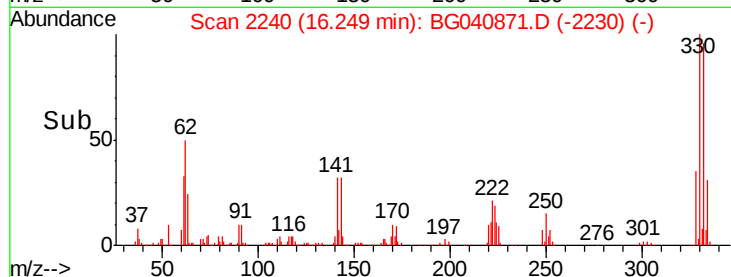
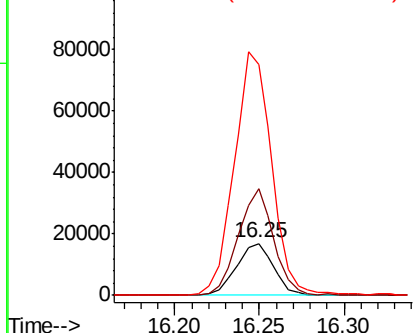
#67  
 4-Bromophenyl-phenylether  
 Concen: 5.108 ng  
 RT: 16.25 min Scan# 2240  
 Delta R.T. -0.47 min  
 Lab File: BG040871.D  
 Acq: 11 May 2019 7:26

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SU-02-050919-B

Tgt Ion:248 Resp: 25899  
 Ion Ratio Lower Upper  
 248 100  
 250 205.2 79.8 119.6#  
 141 445.7 60.8 91.2#

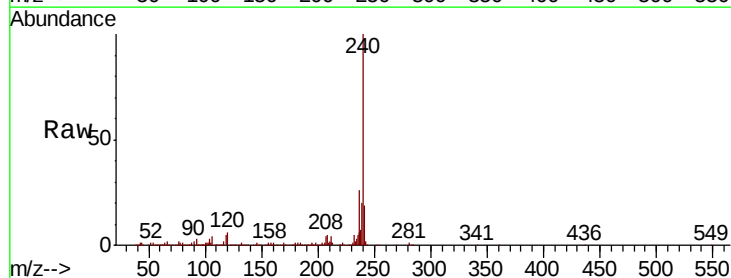


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

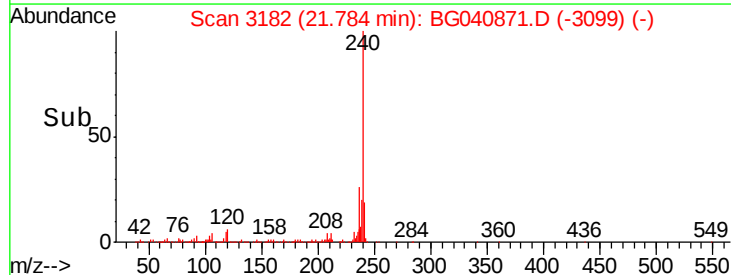
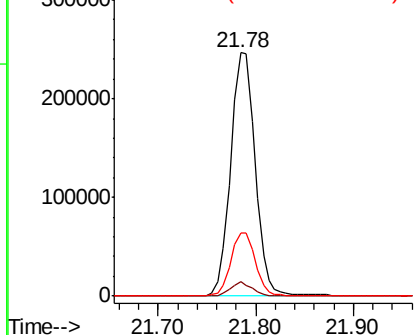


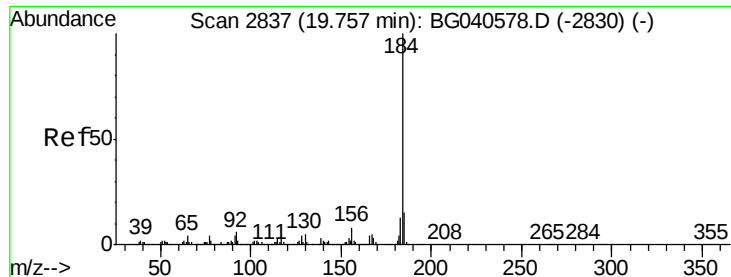
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.78 min Scan# 3182  
 Delta R.T. -0.04 min  
 Lab File: BG040871.D  
 Acq: 11 May 2019 7:26

Tgt Ion:240 Resp: 433850  
 Ion Ratio Lower Upper  
 240 100  
 120 5.8 5.0 7.6  
 236 26.1 20.3 30.5



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





#77

Benzidine

Concen: 2.922 ng

RT: 20.10 min Scan# 2896

Delta R.T. 0.35 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

Instrument :

BNA\_G

ClientSampleId :

SU-02-050919-B

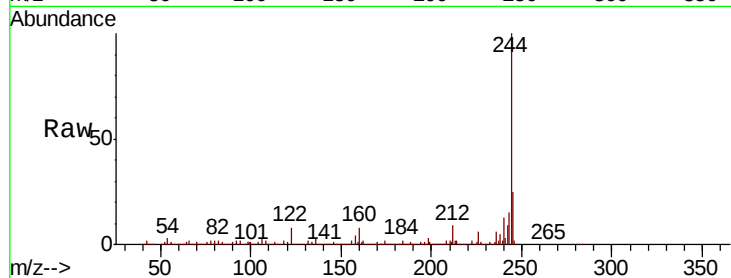
Tgt Ion:184 Resp: 34713

Ion Ratio Lower Upper

184 100

185 15.3 11.8 17.8

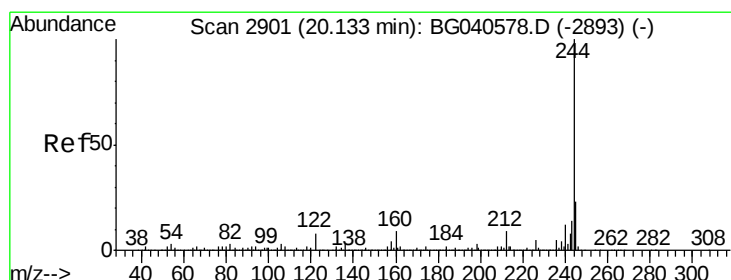
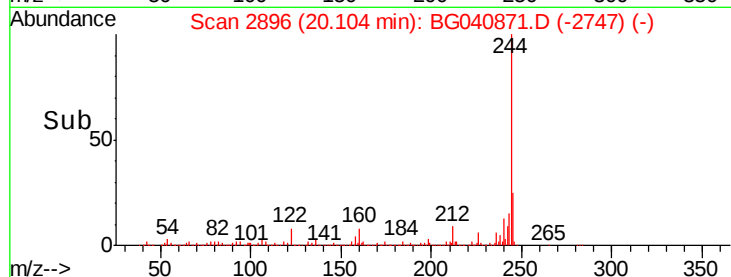
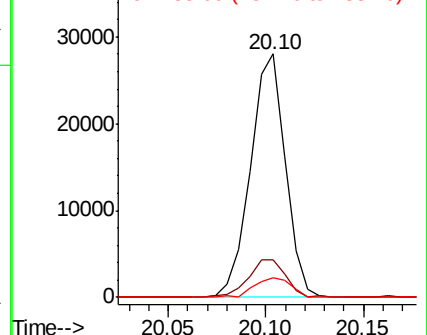
183 8.2 10.2 15.2#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 98.420 ng

RT: 20.10 min Scan# 2896

Delta R.T. -0.03 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

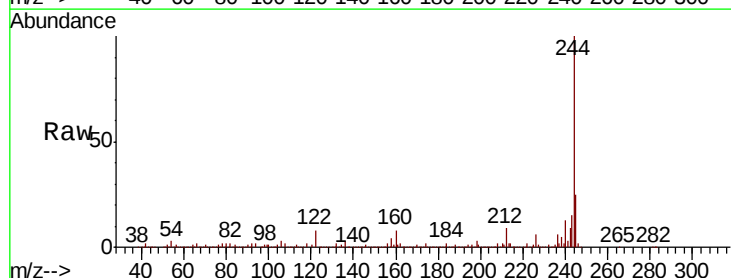
Tgt Ion:244 Resp: 1927368

Ion Ratio Lower Upper

244 100

212 9.5 7.2 10.8

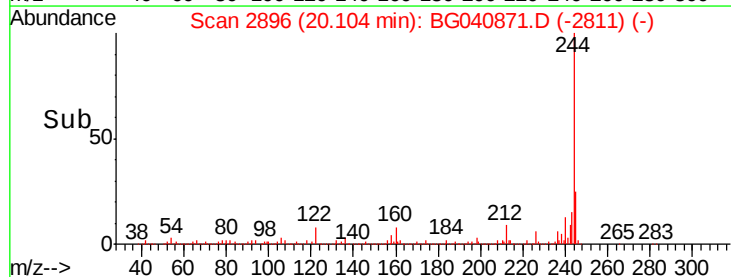
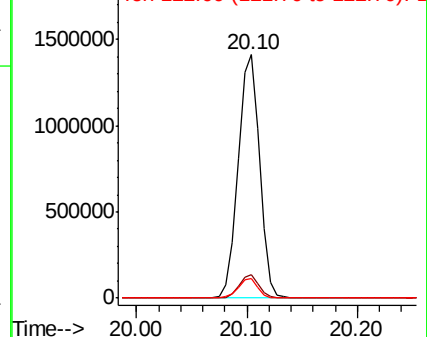
122 8.0 6.6 10.0

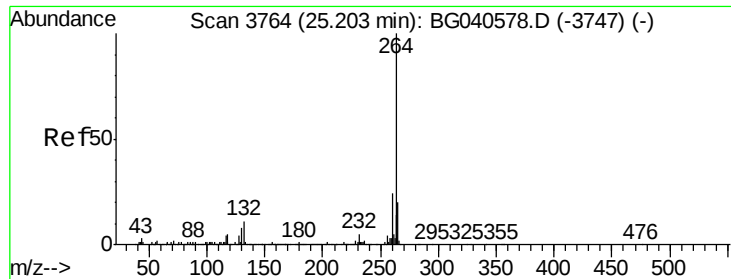


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.14 min Scan# 3753

Delta R.T. -0.06 min

Lab File: BG040871.D

Acq: 11 May 2019 7:26

Instrument :

BNA\_G

ClientSampleId :

SU-02-050919-B

Tgt Ion: 264 Resp: 452833

Ion Ratio Lower Upper

264 100

260 24.7 19.2 28.8

265 20.3 16.6 25.0

