

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG051319\  
 Data File : BG040916.D  
 Acq On : 13 May 2019 18:10  
 Operator : HP/JU  
 Sample : PB119674BL  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB119674BL

Quant Time: May 14 01:48:44 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

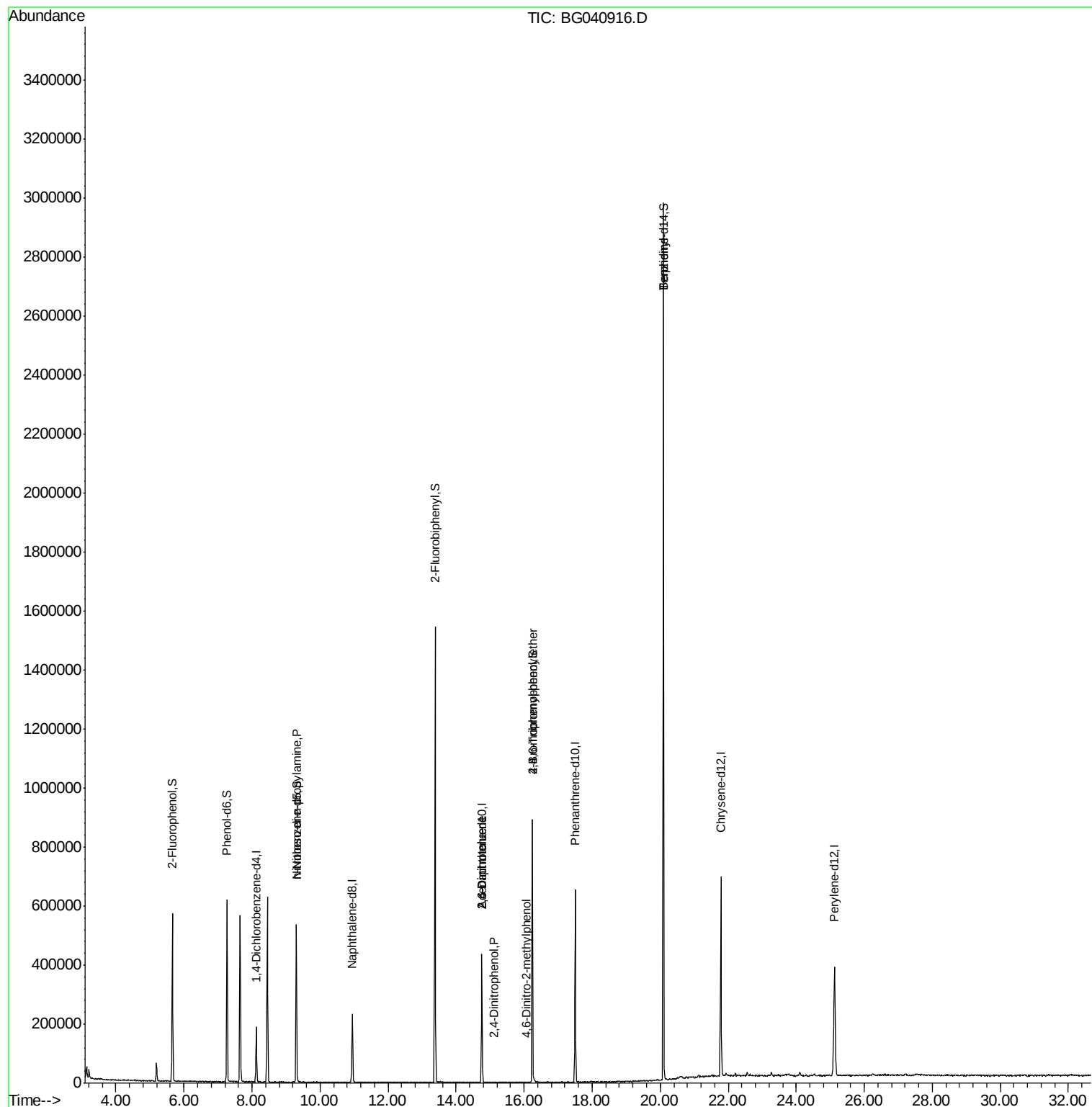
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.13  | 152  | 48700    | 20.00     | ng     | -0.03    |
| 21) Naphthalene-d8             | 10.95 | 136  | 195376   | 20.00     | ng     | -0.03    |
| 39) Acenaphthene-d10           | 14.76 | 164  | 146492   | 20.00     | ng     | -0.03    |
| 64) Phenanthrene-d10           | 17.50 | 188  | 392741   | 20.00     | ng     | -0.03    |
| 76) Chrysene-d12               | 21.78 | 240  | 422654   | 20.00     | ng     | -0.04    |
| 87) Perylene-d12               | 25.13 | 264  | 460028   | 20.00     | ng     | -0.08    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.66  | 112  | 222497   | 80.54     | ng     | -0.02    |
| 7) Phenol-d6                   | 7.27  | 99   | 314408   | 73.91     | ng     | -0.03    |
| 23) Nitrobenzene-d5            | 9.30  | 82   | 320108   | 75.71     | ng     | -0.03    |
| 42) 2,4,6-Tribromophenol       | 16.24 | 330  | 170706   | 84.78     | ng     | -0.03    |
| 45) 2-Fluorobiphenyl           | 13.38 | 172  | 762644   | 75.19     | ng     | -0.03    |
| 79) Terphenyl-d14              | 20.10 | 244  | 1418867  | 74.37     | ng     | -0.03    |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 7.27  | 77   | 503      | Below Cal | Qvalue | # 6      |
| 19) n-Nitroso-di-n-propylamine | 9.30  | 70   | 47119    | 12.305 ng | #      | 69       |
| 51) 2,6-Dinitrotoluene         | 14.76 | 165  | 18714    | 7.823 ng  | #      | 15       |
| 54) 2,4-Dinitrophenol          | 15.13 | 184  | 55       | 7.052 ng  | #      | 21       |
| 57) 2,4-Dinitrotoluene         | 14.76 | 165  | 18714    | 5.757 ng  | #      | 17       |
| 65) 4,6-Dinitro-2-methylphenol | 16.07 | 198  | 76       | 7.135 ng  | #      | 28       |
| 67) 4-Bromophenyl-phenylether  | 16.24 | 248  | 12374    | 2.529 ng  | #      | 1        |
| 77) Benzydine                  | 20.09 | 184  | 23328    | 2.016 ng  |        | 96       |

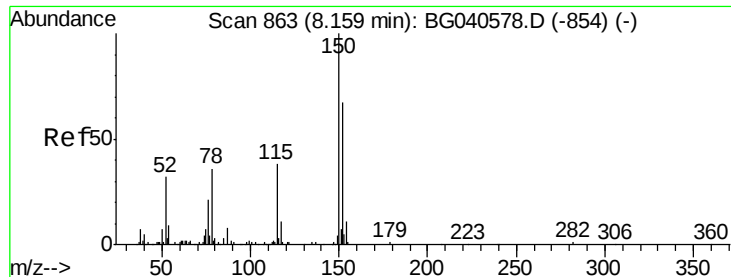
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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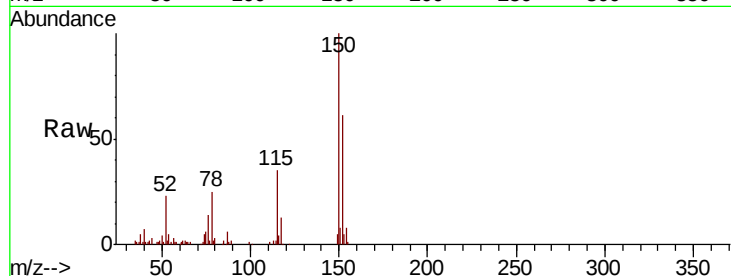


#1

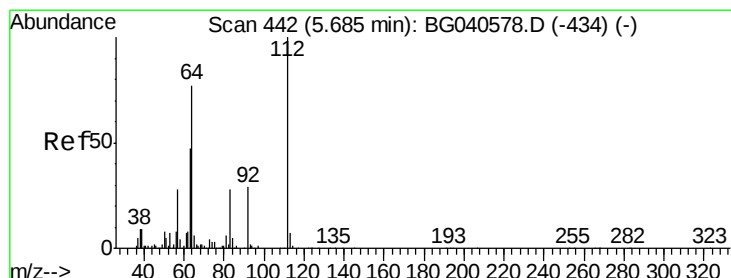
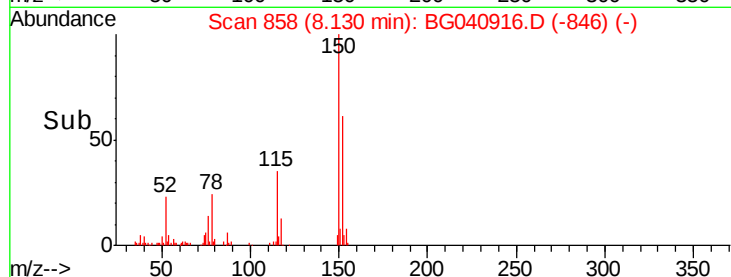
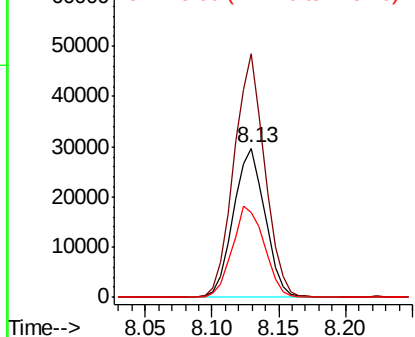
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.13 min Scan# 858  
 Delta R.T. -0.03 min  
 Lab File: BG040916.D  
 Acq: 13 May 2019 18:10

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB119674BL

Tgt Ion:152 Resp: 48700  
 Ion Ratio Lower Upper  
 152 100  
 150 163.4 120.2 180.2  
 115 57.0 46.2 69.2



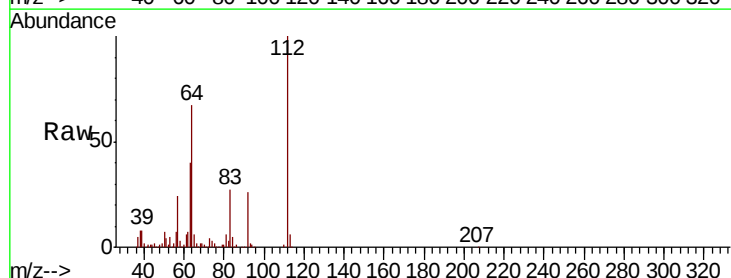
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



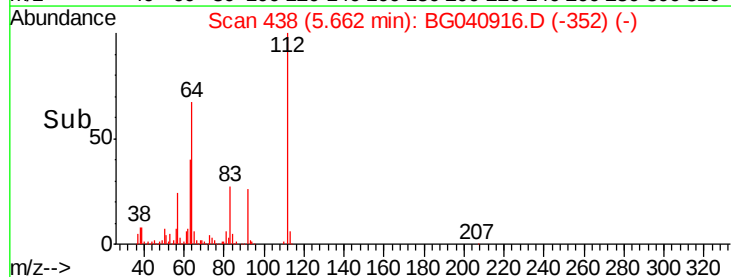
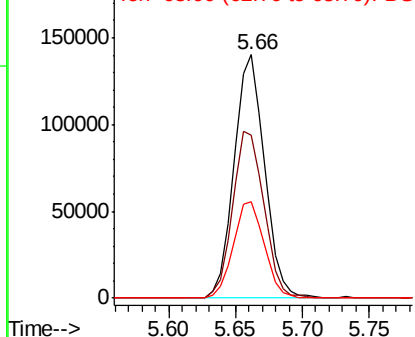
#5

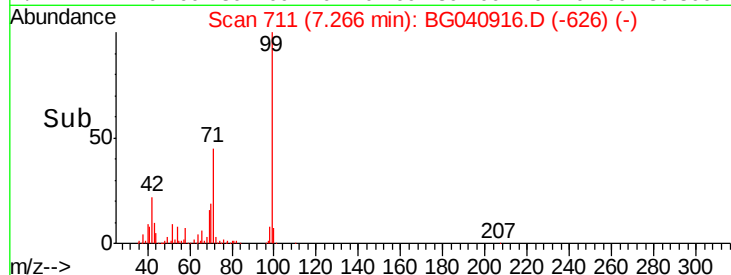
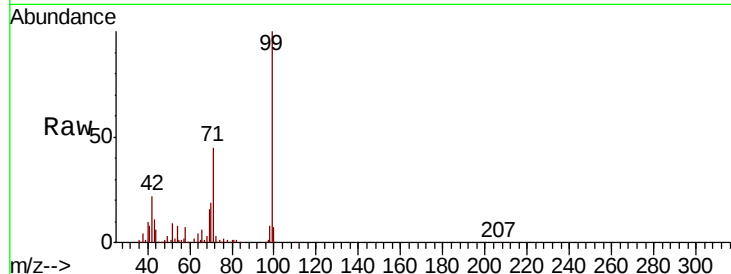
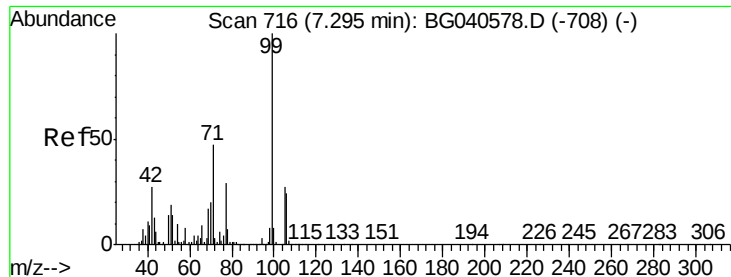
2-Fluorophenol  
 Concen: 80.536 ng  
 RT: 5.66 min Scan# 438  
 Delta R.T. -0.02 min  
 Lab File: BG040916.D  
 Acq: 13 May 2019 18:10

Tgt Ion:112 Resp: 222497  
 Ion Ratio Lower Upper  
 112 100  
 64 67.1 61.4 92.0  
 63 39.7 37.8 56.6



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: 73.913 ng

RT: 7.27 min Scan# 711

Delta R.T. -0.03 min

Lab File: BG040916.D

Acq: 13 May 2019 18:10

Instrument :

BNA\_G

ClientSampleId :

PB119674BL

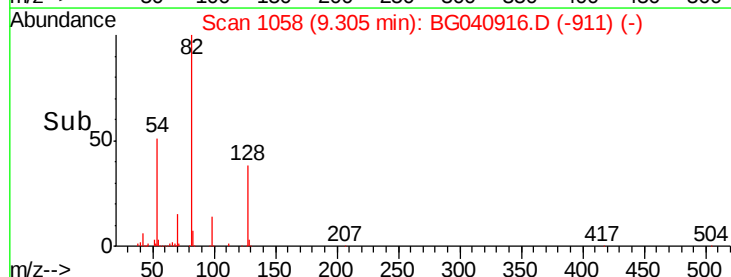
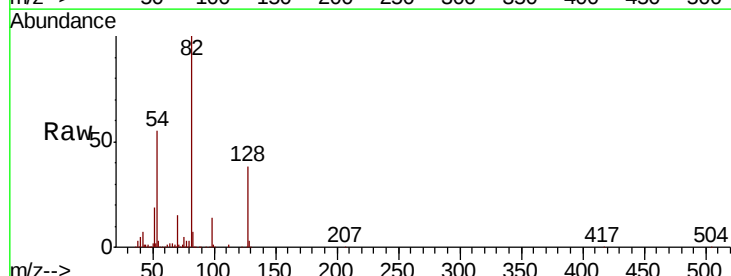
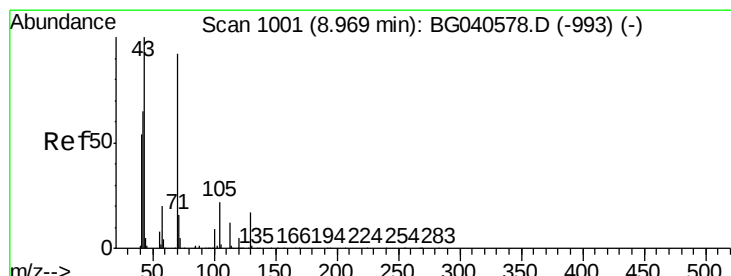
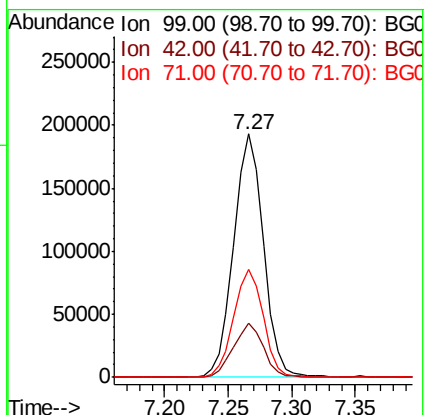
Tgt Ion: 99 Resp: 314408

Ion Ratio Lower Upper

99 100

42 22.4 21.8 32.8

71 44.6 38.6 57.8



#19

n-Nitroso-di-n-propylamine

Concen: 12.305 ng

RT: 9.30 min Scan# 1058

Delta R.T. 0.34 min

Lab File: BG040916.D

Acq: 13 May 2019 18:10

Tgt Ion: 70 Resp: 47119

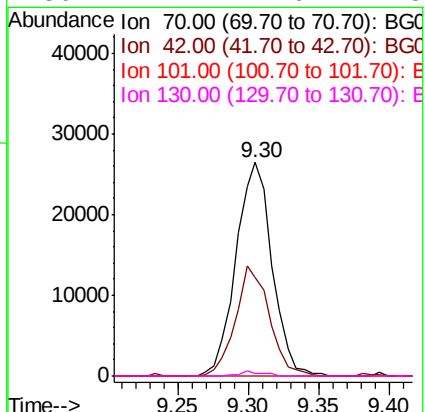
Ion Ratio Lower Upper

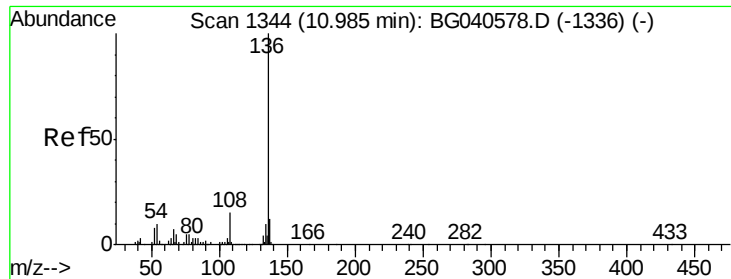
70 100

42 46.3 57.1 85.7#

101 0.0 7.8 11.8#

130 1.1 14.6 21.8#

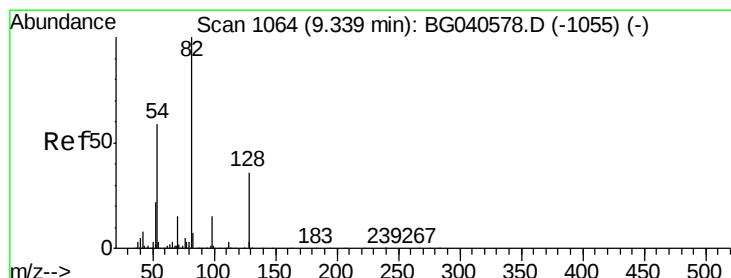
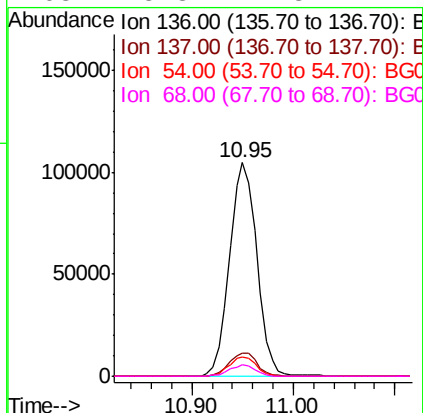
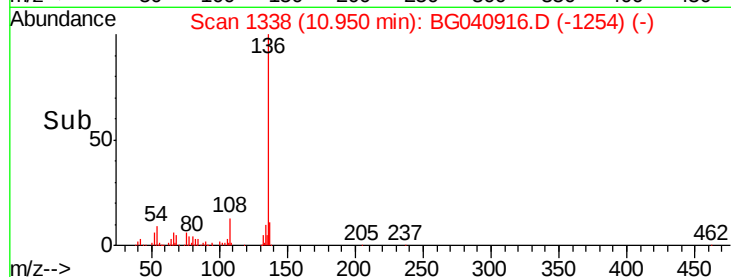
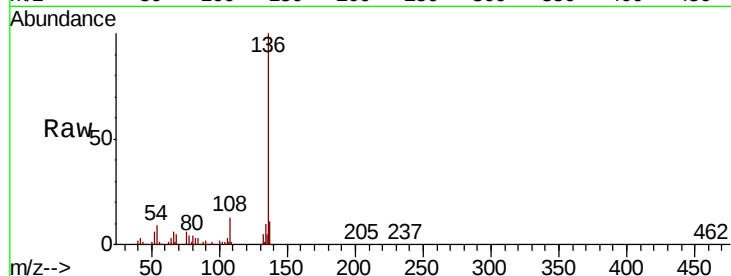




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.95 min Scan# 1338  
Delta R.T. -0.03 min  
Lab File: BG040916.D  
Acq: 13 May 2019 18:10

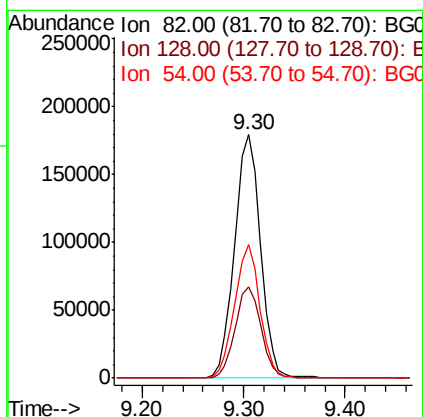
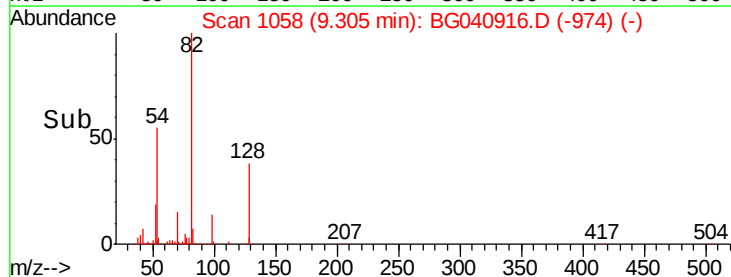
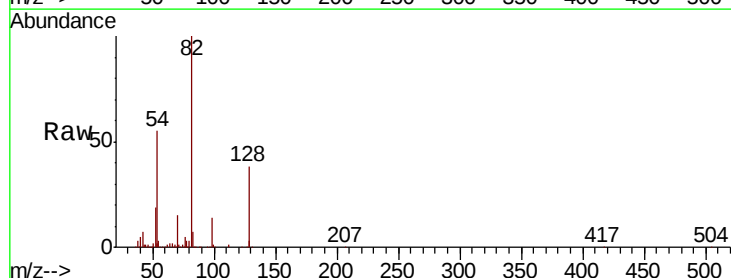
Instrument :  
BNA\_G  
ClientSampleId :  
PB119674BL

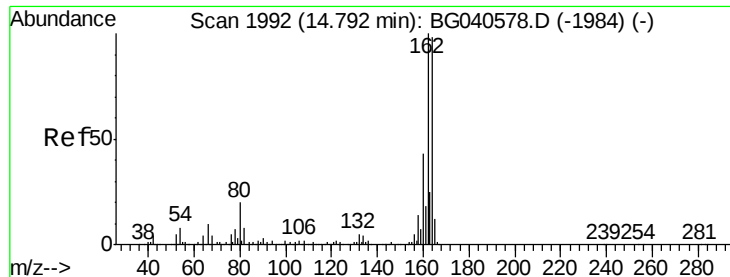
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 195376 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.7   | 14.5   |
| 54       | 8.8   | 8.6   | 12.8   |
| 68       | 5.3   | 4.8   | 7.2    |



#23  
Nitrobenzene-d5  
Concen: 75.705 ng  
RT: 9.30 min Scan# 1058  
Delta R.T. -0.03 min  
Lab File: BG040916.D  
Acq: 13 May 2019 18:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 320108 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 37.6  | 28.9  | 43.3   |
| 54       | 55.1  | 47.2  | 70.8   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.76 min Scan# 1986

Delta R.T. -0.03 min

Lab File: BG040916.D

Acq: 13 May 2019 18:10

Instrument :

BNA\_G

ClientSampleId :

PB119674BL

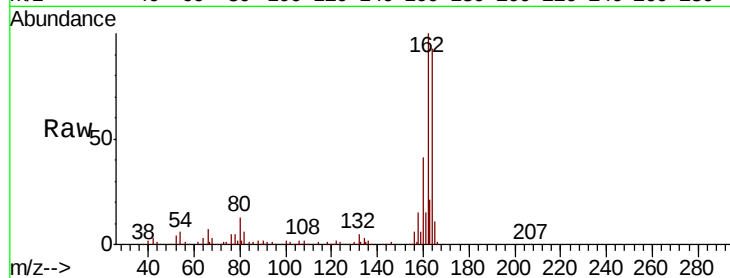
Tgt Ion:164 Resp: 146492

Ion Ratio Lower Upper

164 100

162 107.7 81.9 122.9

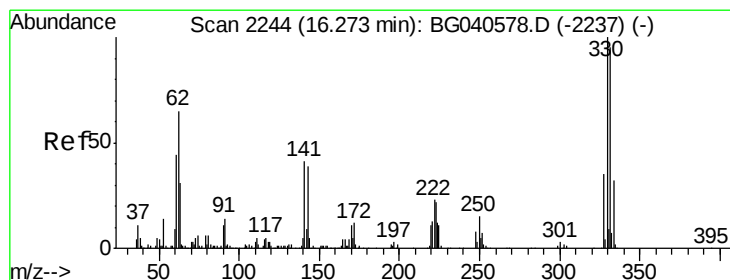
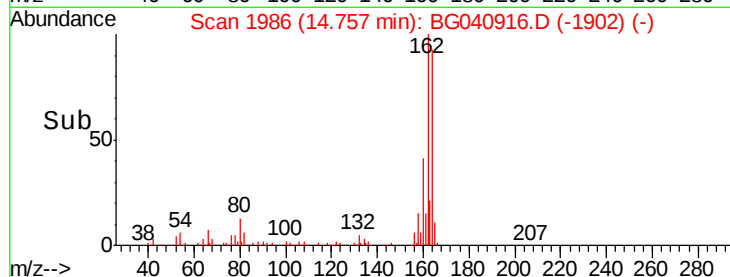
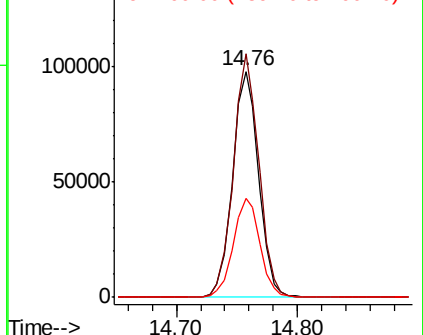
160 43.8 35.4 53.2



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: 84.778 ng

RT: 16.24 min Scan# 2239

Delta R.T. -0.03 min

Lab File: BG040916.D

Acq: 13 May 2019 18:10

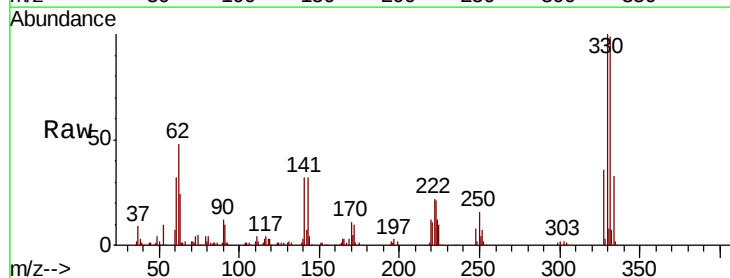
Tgt Ion:330 Resp: 170706

Ion Ratio Lower Upper

330 100

332 96.0 75.9 113.9

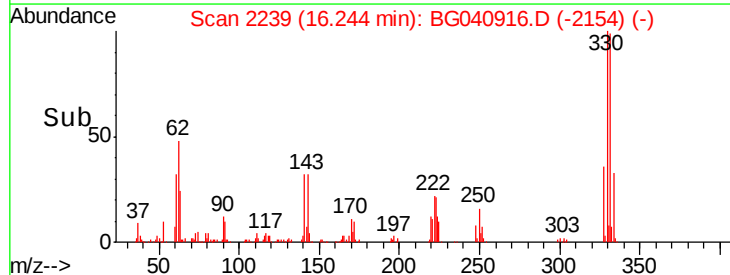
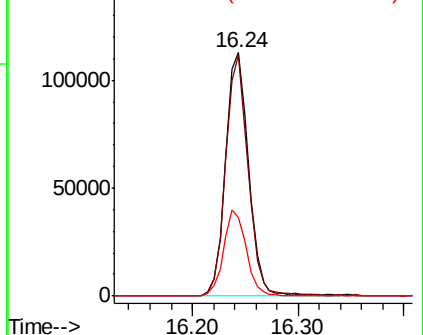
141 35.0 32.4 48.6

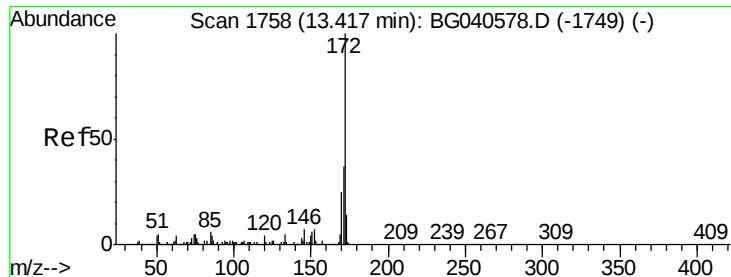


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

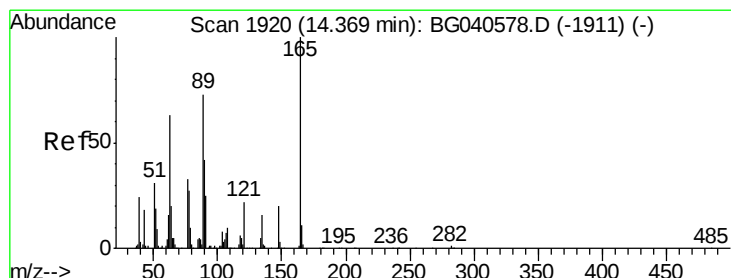
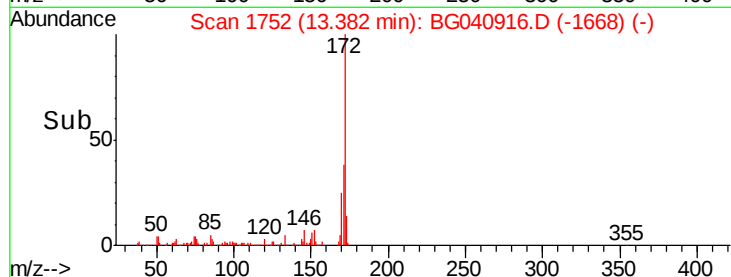
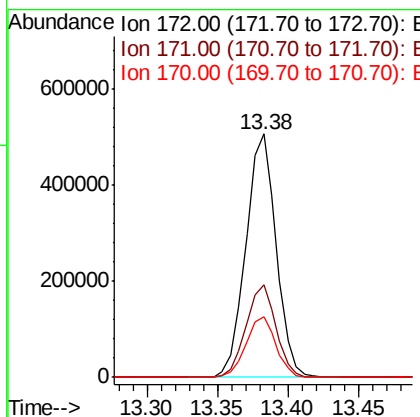
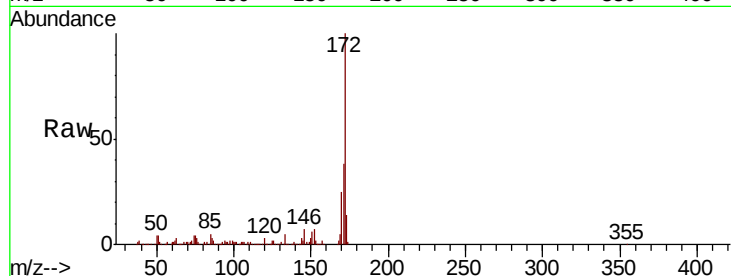




#45  
 2-Fluorobiphenyl  
 Concen: 75.186 ng  
 RT: 13.38 min Scan# 1752  
 Delta R.T. -0.03 min  
 Lab File: BG040916.D  
 Acq: 13 May 2019 18:10

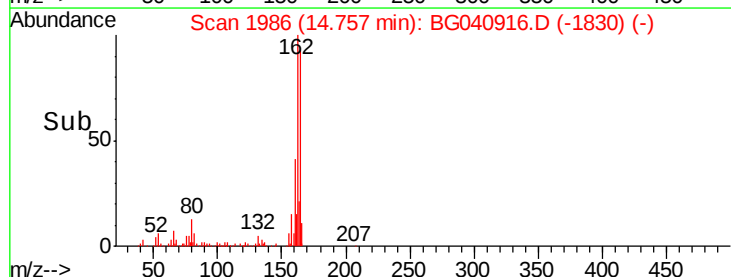
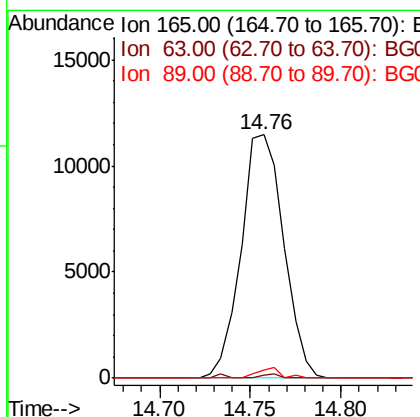
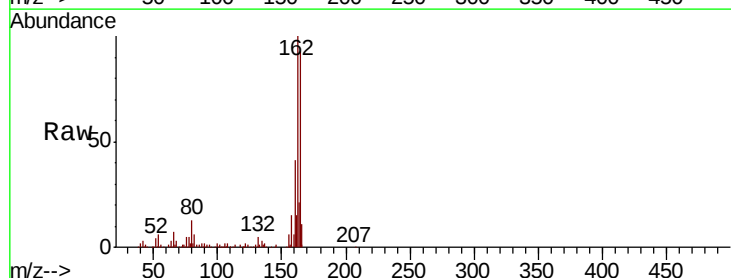
Instrument :  
 BNA\_G  
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 PB119674BL

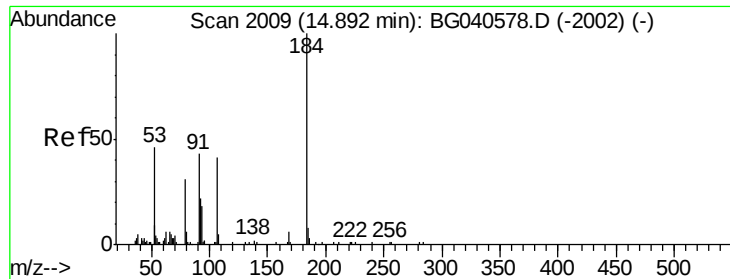
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 762644 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 37.8  | 29.4  | 44.2   |
| 170      | 25.1  | 19.9  | 29.9   |



#51  
 2,6-Dinitrotoluene  
 Concen: 7.823 ng  
 RT: 14.76 min Scan# 1986  
 Delta R.T. 0.39 min  
 Lab File: BG040916.D  
 Acq: 13 May 2019 18:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 18714 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.4   | 61.0  | 91.4# |
| 89       | 3.2   | 58.6  | 87.8# |

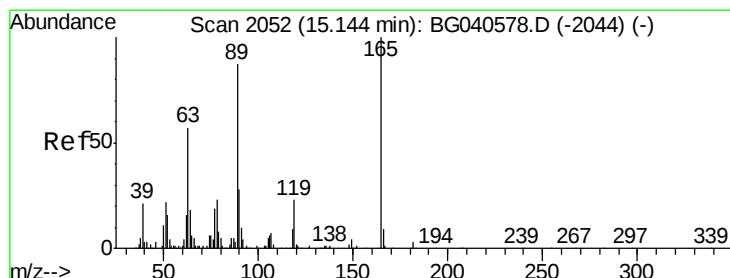
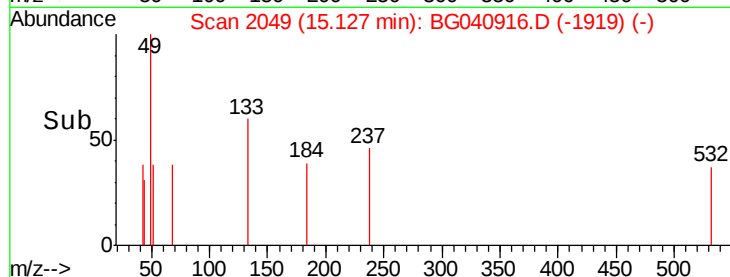
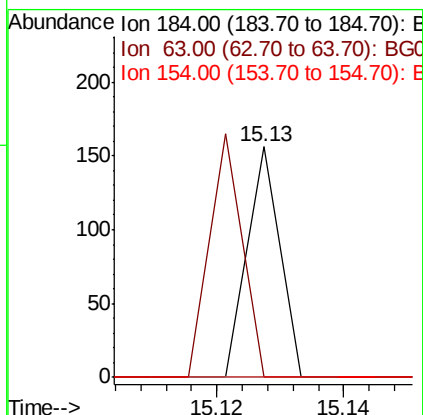
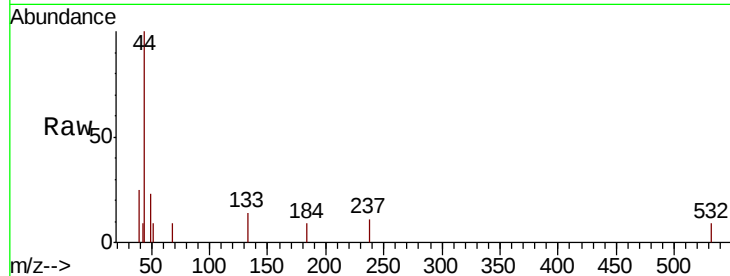




#54  
2,4-Dinitrophenol  
Concen: 7.052 ng  
RT: 15.13 min Scan# 2049  
Delta R.T. 0.24 min  
Lab File: BG040916.D  
Acq: 13 May 2019 18:10

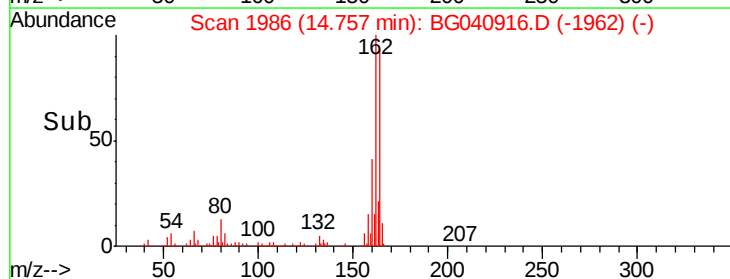
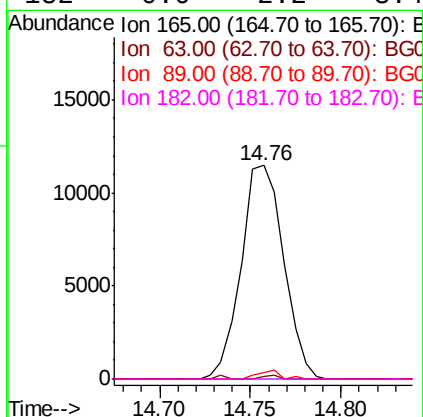
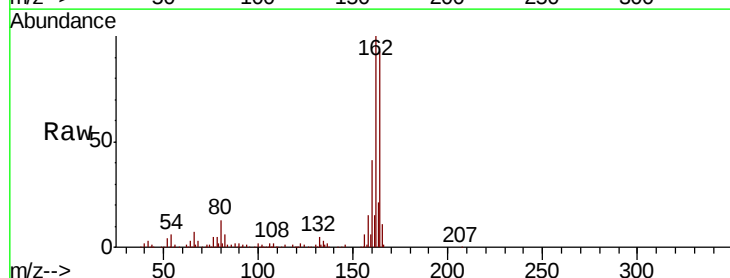
Instrument :  
BNA\_G  
ClientSampleId :  
PB119674BL

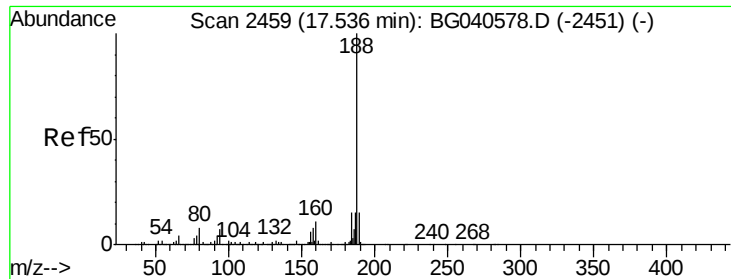
Tgt Ion:184 Resp: 55  
Ion Ratio Lower Upper  
184 100  
63 0.0 51.8 77.6#  
154 0.0 43.6 65.4#



#57  
2,4-Dinitrotoluene  
Concen: 5.757 ng  
RT: 14.76 min Scan# 1986  
Delta R.T. -0.39 min  
Lab File: BG040916.D  
Acq: 13 May 2019 18:10

Tgt Ion:165 Resp: 18714  
Ion Ratio Lower Upper  
165 100  
63 1.4 45.8 68.8#  
89 3.2 69.4 104.2#  
182 0.0 2.2 3.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.50 min Scan# 2453

Delta R.T. -0.03 min

Lab File: BG040916.D

Acq: 13 May 2019 18:10

Instrument :

BNA\_G

ClientSampleId :

PB119674BL

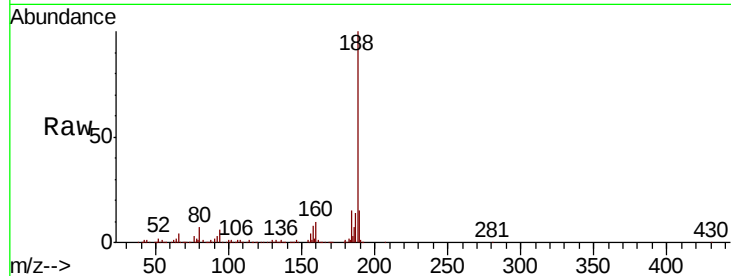
Tgt Ion:188 Resp: 392741

Ion Ratio Lower Upper

188 100

94 6.0 5.6 8.4

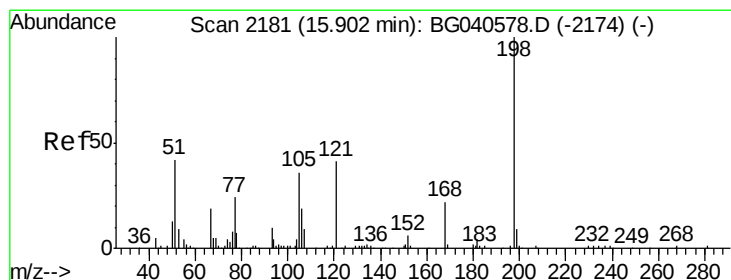
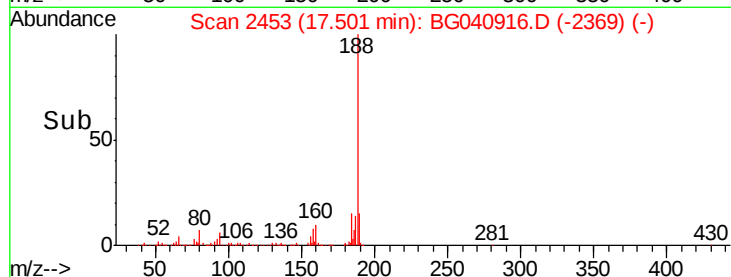
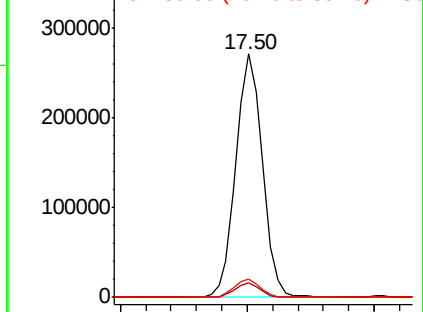
80 7.4 6.4 9.6



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



#65

4,6-Dinitro-2-methylphenol

Concen: 7.135 ng

RT: 16.07 min Scan# 2209

Delta R.T. 0.17 min

Lab File: BG040916.D

Acq: 13 May 2019 18:10

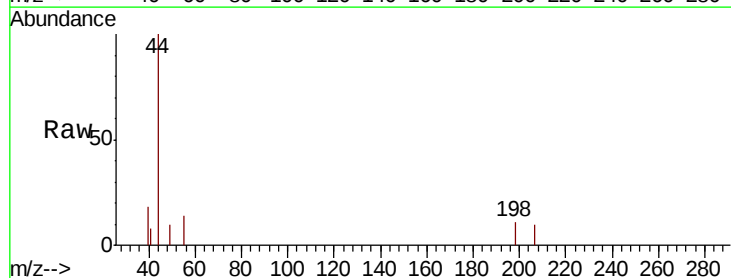
Tgt Ion:198 Resp: 76

Ion Ratio Lower Upper

198 100

51 0.0 35.9 75.9#

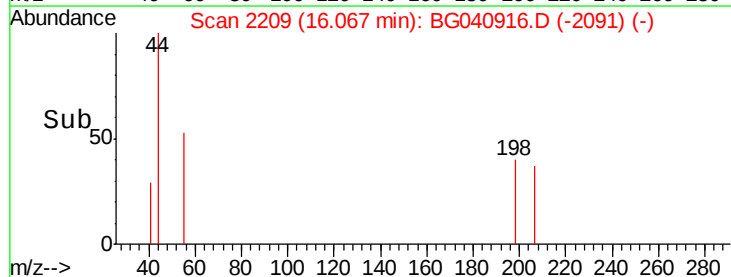
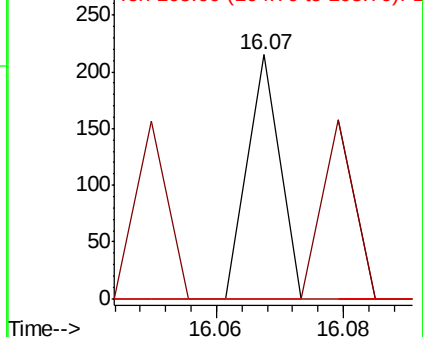
105 0.0 21.2 61.2#

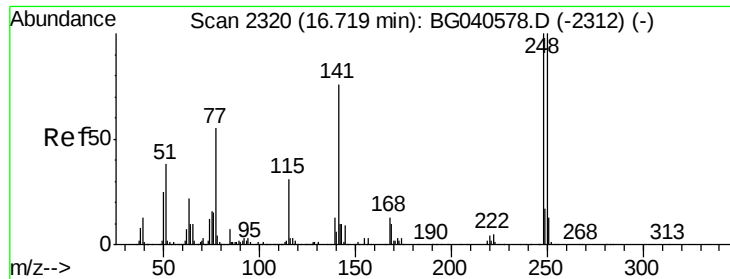


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

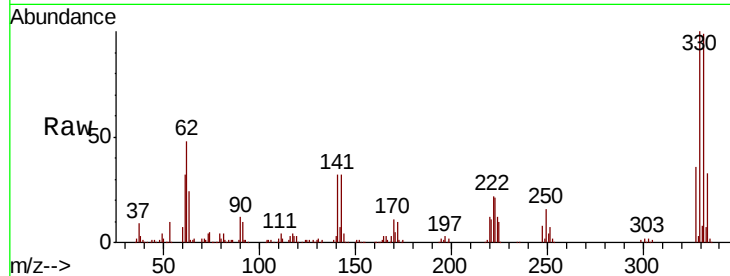




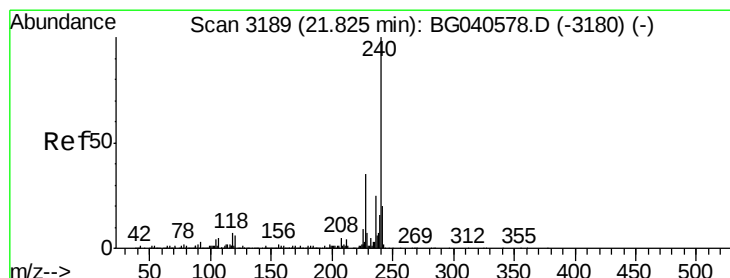
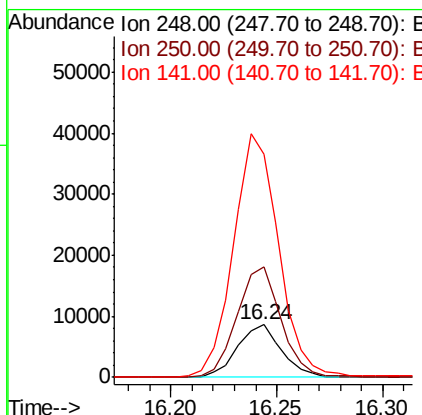
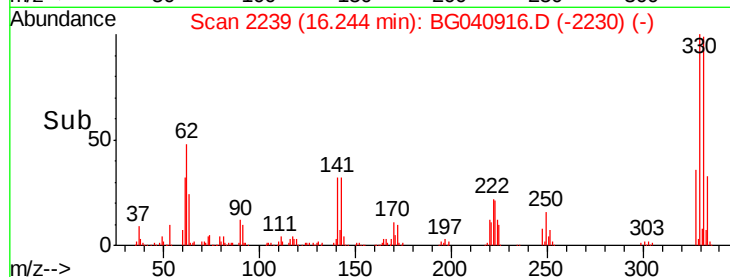
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.529 ng  
 RT: 16.24 min Scan# 2239  
 Delta R.T. -0.48 min  
 Lab File: BG040916.D  
 Acq: 13 May 2019 18:10

Instrument :  
 BNA\_G  
 ClientSampled :  
 PB119674BL

Tgt Ion:248 Resp: 12374  
 Ion Ratio Lower Upper  
 248 100  
 250 211.6 79.8 119.6#  
 141 426.0 60.8 91.2#

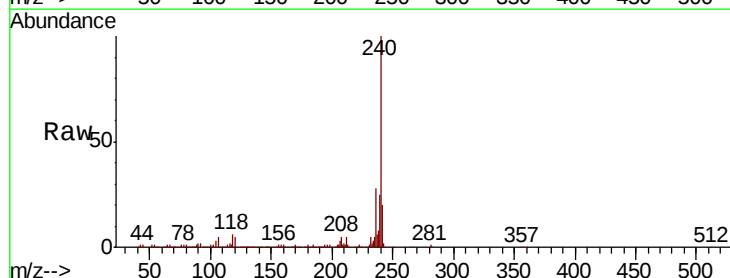


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

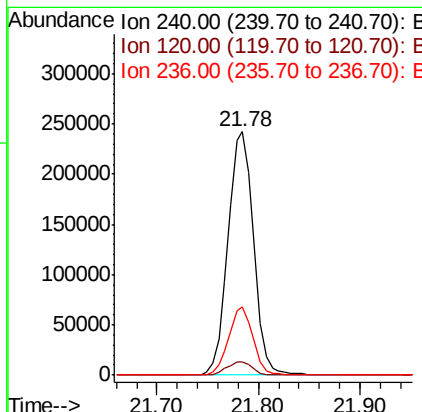
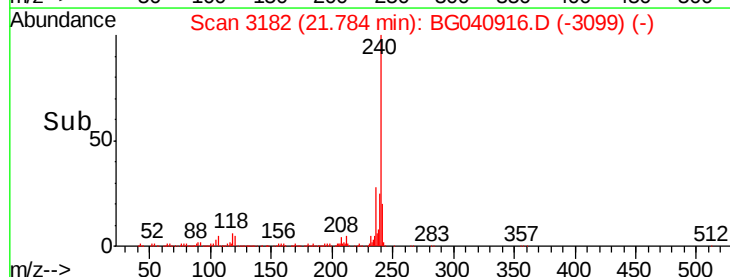


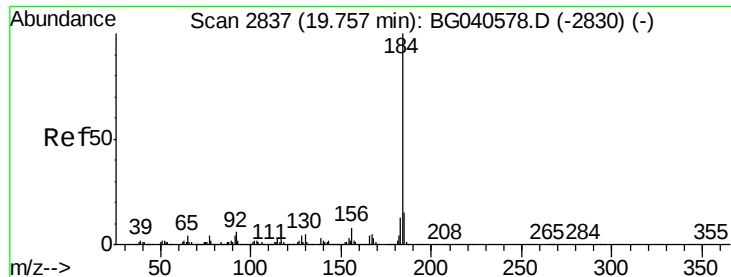
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.78 min Scan# 3182  
 Delta R.T. -0.04 min  
 Lab File: BG040916.D  
 Acq: 13 May 2019 18:10

Tgt Ion:240 Resp: 422654  
 Ion Ratio Lower Upper  
 240 100  
 120 5.3 5.0 7.6  
 236 28.0 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: 2.016 ng

RT: 20.09 min Scan# 2894

Delta R.T. 0.34 min

Lab File: BG040916.D

Acq: 13 May 2019 18:10

Instrument :

BNA\_G

ClientSampleId :

PB119674BL

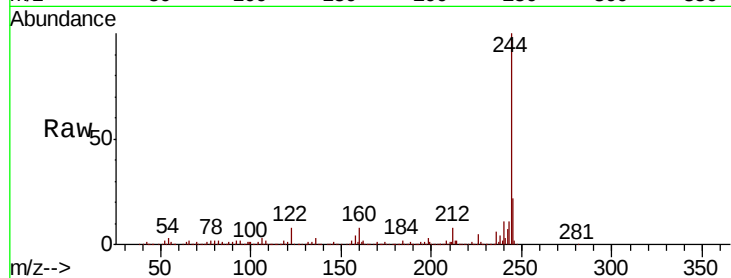
Tgt Ion:184 Resp: 23328

Ion Ratio Lower Upper

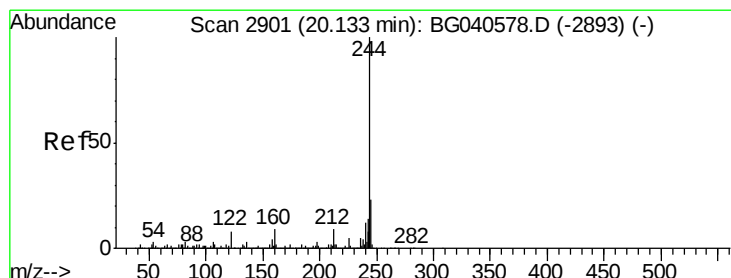
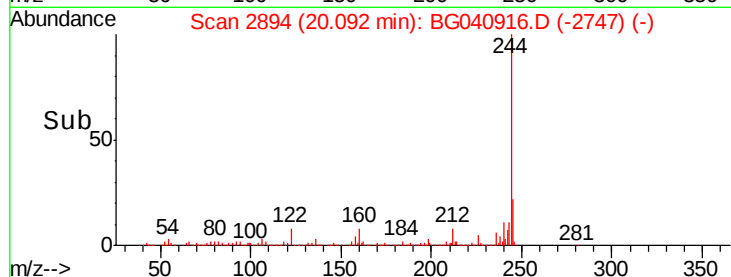
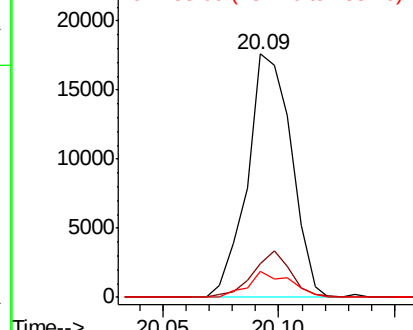
184 100

185 13.8 11.8 17.8

183 10.7 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: 74.373 ng

RT: 20.10 min Scan# 2895

Delta R.T. -0.03 min

Lab File: BG040916.D

Acq: 13 May 2019 18:10

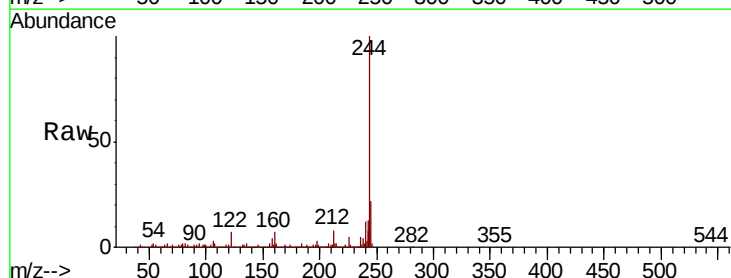
Tgt Ion:244 Resp: 1418867

Ion Ratio Lower Upper

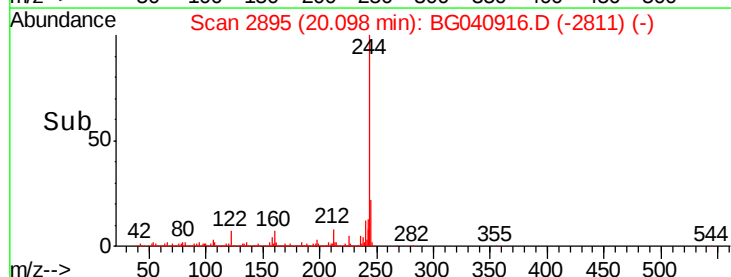
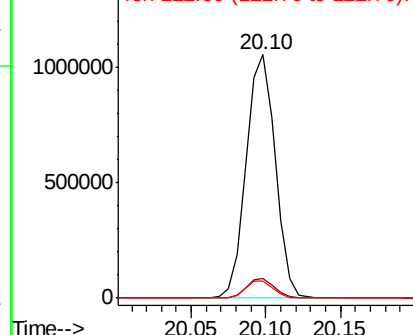
244 100

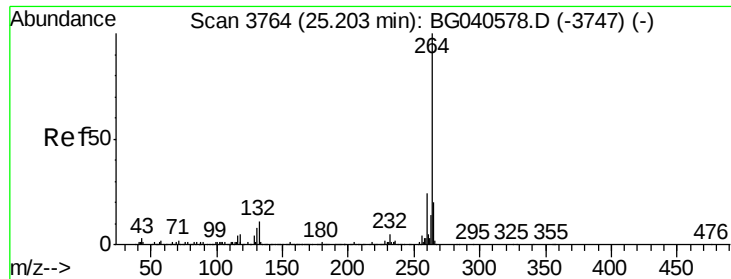
212 8.3 7.2 10.8

122 6.9 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: 25.13 min Scan# 3751  
Delta R.T. -0.08 min  
Lab File: BG040916.D  
Acq: 13 May 2019 18:10

Instrument :  
BNA\_G  
ClientSampleId :  
PB119674BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.2  | 28.8  |
| 265     | 21.8  | 16.6  | 25.0  |

