

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111419\  
 Data File : BG043650.D  
 Acq On : 15 Nov 2019 7:38  
 Operator : JU  
 Sample : PB124801BL  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB124801BL

Quant Time: Nov 15 08:25:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 04 15:22:15 2019  
 Response via : Initial Calibration

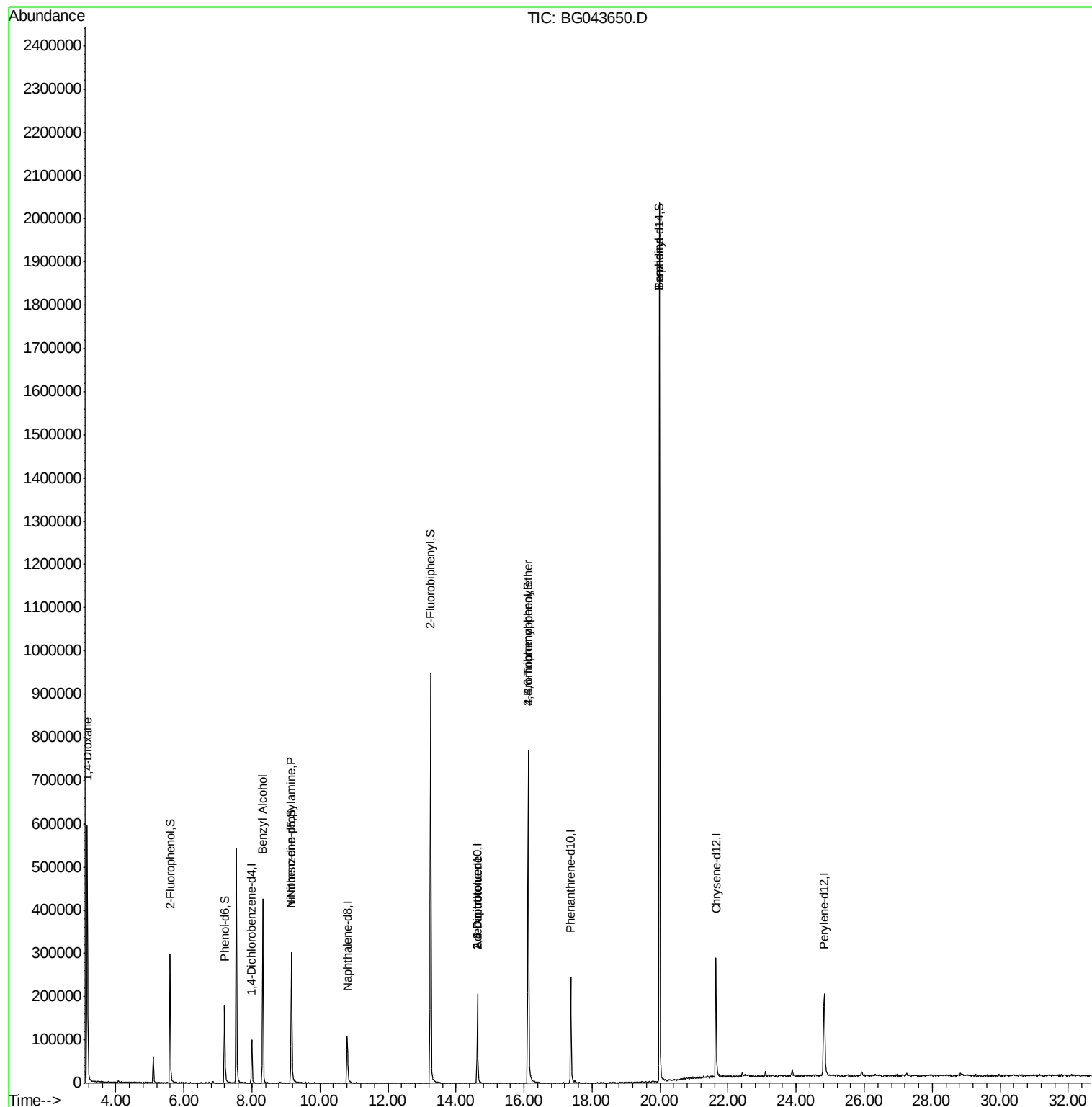
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.00  | 152  | 30616    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.80 | 136  | 111128   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.63 | 164  | 83351    | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 17.37 | 188  | 190865   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.64 | 240  | 199321   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 24.82 | 264  | 233964   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.59  | 112  | 142470   | 85.27  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 120919   | 50.30  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.16  | 82   | 208168   | 96.57  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.12 | 330  | 202651   | 127.76 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.25 | 172  | 570761   | 94.62  | ng    | -0.02    |
| 79) Terphenyl-d14              | 19.98 | 244  | 1095654  | 103.13 | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.15  | 88   | 6072     | 9.326  | ng    | # 1      |
| 15) Benzyl Alcohol             | 8.32  | 79   | 3713     | 2.199  | ng    | # 42     |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 29028    | 18.688 | ng    | # 79     |
| 51) 2,6-Dinitrotoluene         | 14.63 | 165  | 11121    | 7.929  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 14.63 | 165  | 11121    | 5.548  | ng    | # 28     |
| 67) 4-Bromophenyl-phenylether  | 16.12 | 248  | 12733    | 4.957  | ng    | # 1      |
| 77) Benzidine                  | 19.98 | 184  | 16483    | 4.109  | ng    | # 88     |

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

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG102119.M  
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QLast Update : Mon Nov 04 15:22:15 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.00 min Scan# 835

Delta R.T. -0.01 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

Instrument :

BNA\_G

ClientSampleId :

PB124801BL

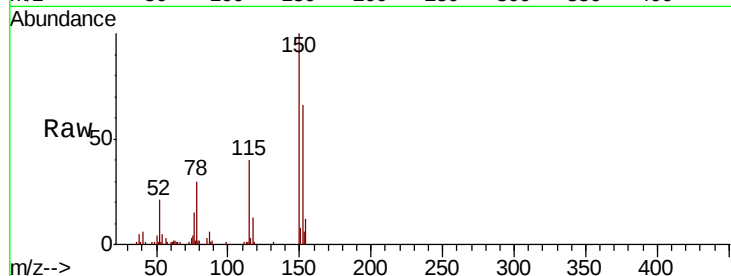
Tot Ion:152 Resp: 30616

Ion Ratio Lower Upper

152 100

150 152.5 129.4 194.0

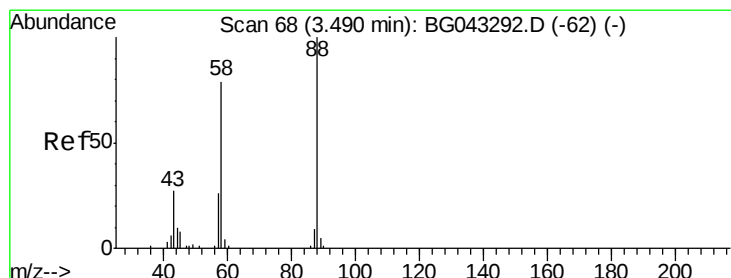
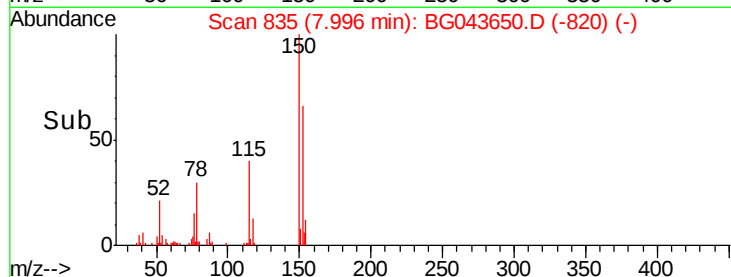
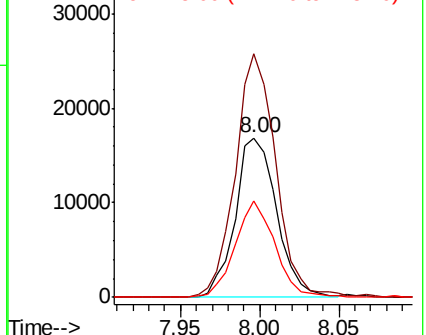
115 60.8 48.8 73.2



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



#2

1,4-Dioxane

Concen: 9.326 ng

RT: 3.15 min Scan# 11

Delta R.T. -0.32 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

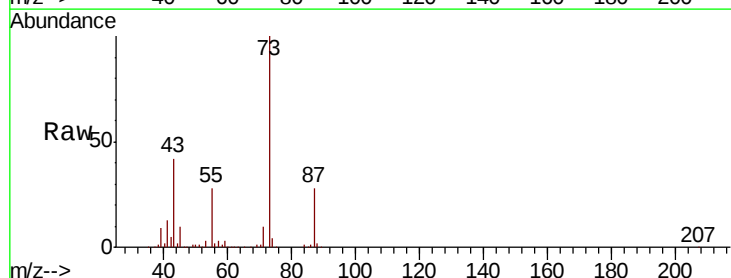
Tgt Ion: 88 Resp: 6072

Ion Ratio Lower Upper

88 100

58 55.1 62.7 94.1#

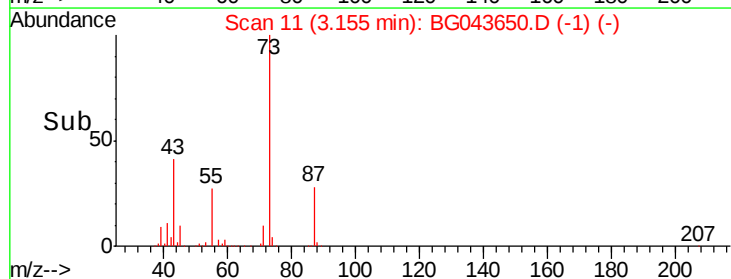
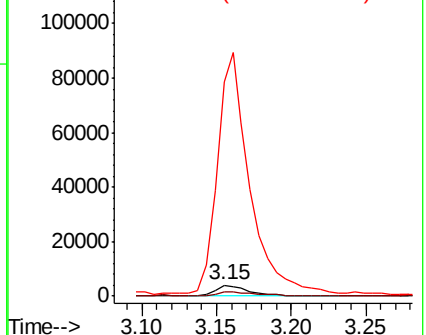
43 2223.9 23.7 35.5#

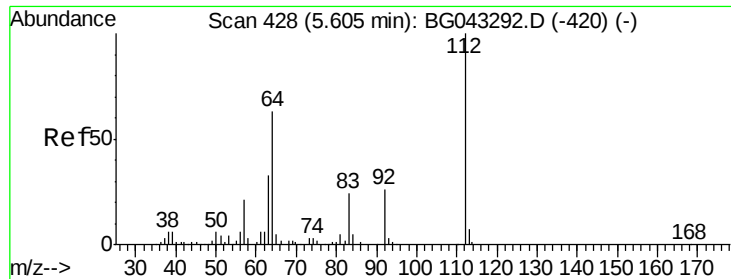


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 85.272 ng

RT: 5.59 min Scan# 426

Delta R.T. 0.00 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

Instrument :

BNA\_G

ClientSampleId :

PB124801BL

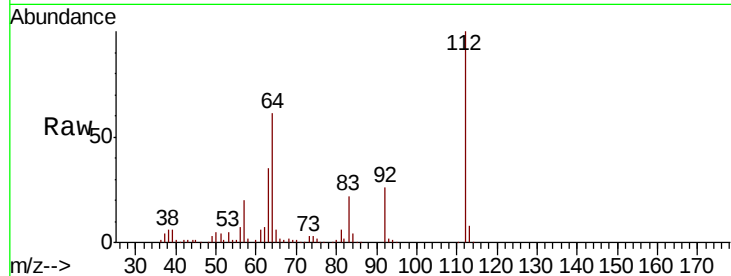
Tot Ion:112 Resp: 142470

Ion Ratio Lower Upper

112 100

64 60.9 50.0 75.0

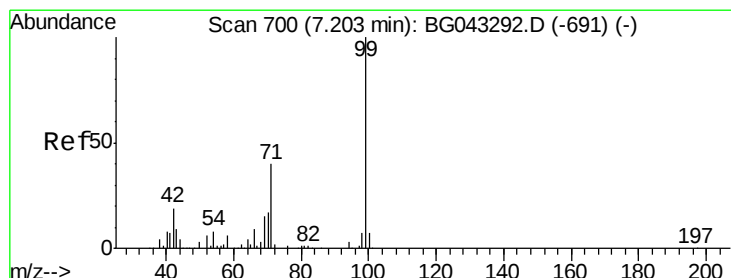
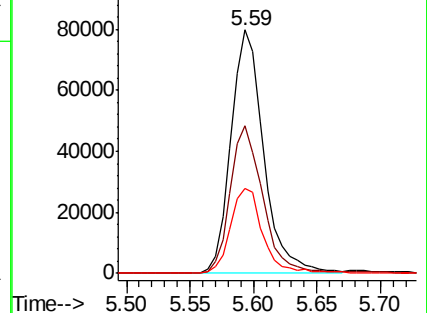
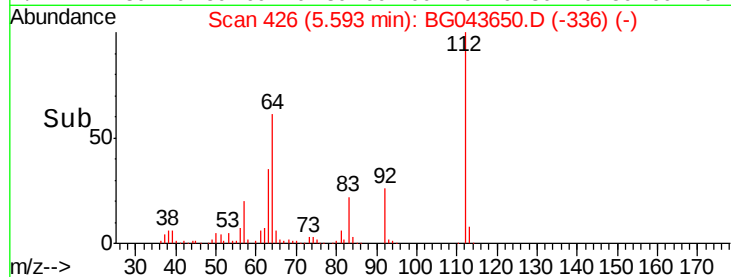
63 35.0 26.6 40.0



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 50.302 ng

RT: 7.20 min Scan# 699

Delta R.T. 0.00 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

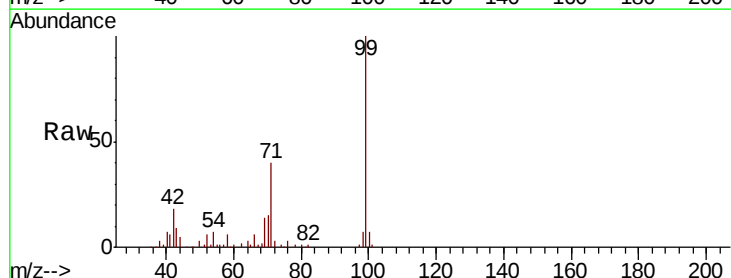
Tgt Ion: 99 Resp: 120919

Ion Ratio Lower Upper

99 100

42 18.1 14.6 21.8

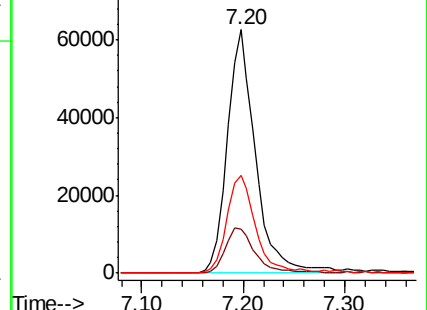
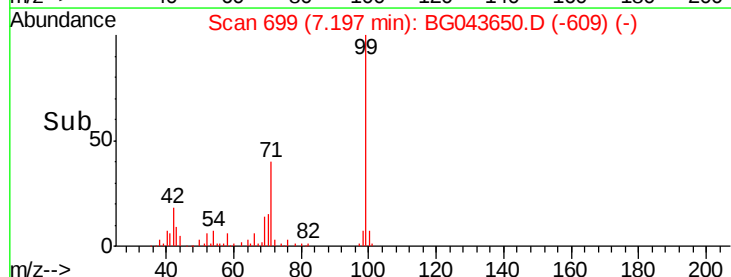
71 40.3 32.5 48.7

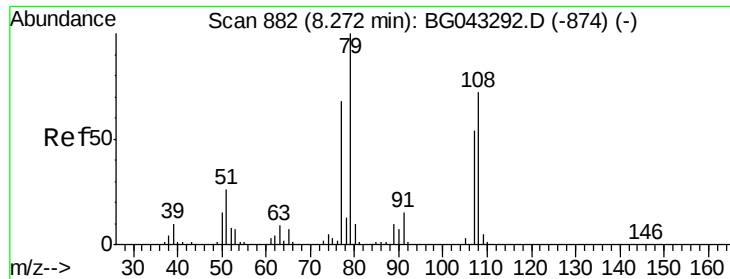


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#15

Benzyl Alcohol

Concen: 2.199 ng

RT: 8.32 min Scan# 890

Delta R.T. 0.07 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

Instrument :

BNA\_G

ClientSampleId :

PB124801BL

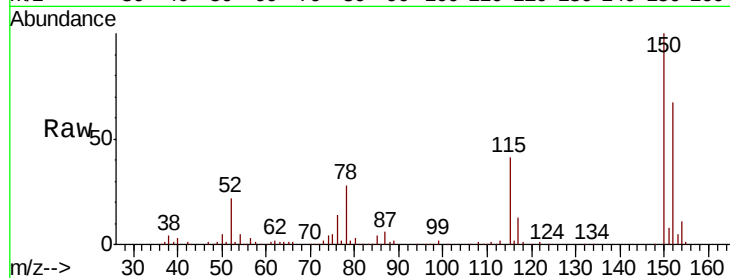
Tot Ion: 79 Resp: 3713

Ion Ratio Lower Upper

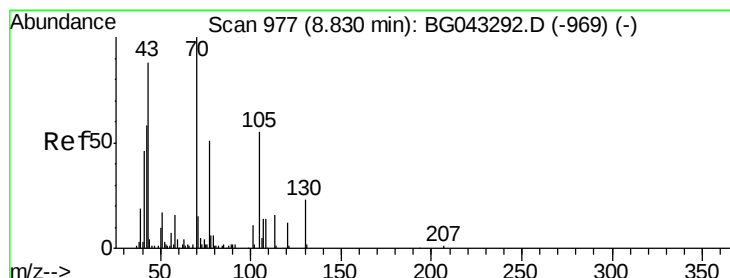
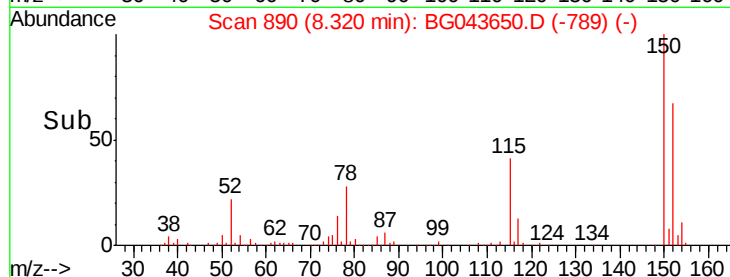
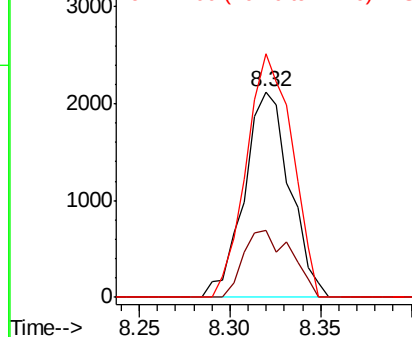
79 100

108 32.4 53.6 80.4#

77 118.5 49.6 74.4#



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: 18.688 ng

RT: 9.16 min Scan# 1033

Delta R.T. 0.35 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

Tgt Ion: 70 Resp: 29028

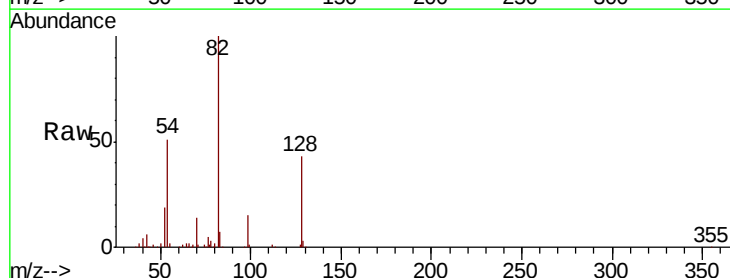
Ion Ratio Lower Upper

70 100

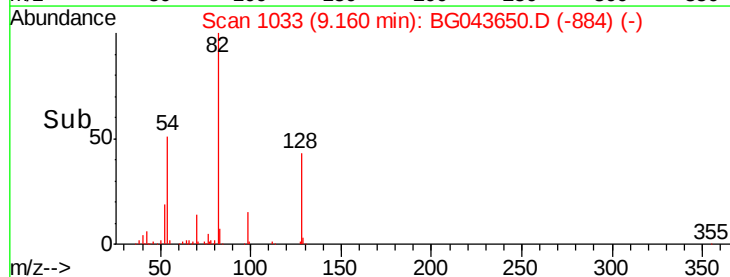
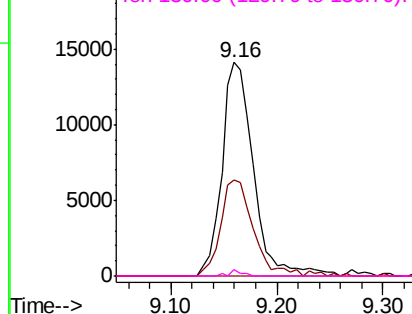
42 45.2 41.4 62.2

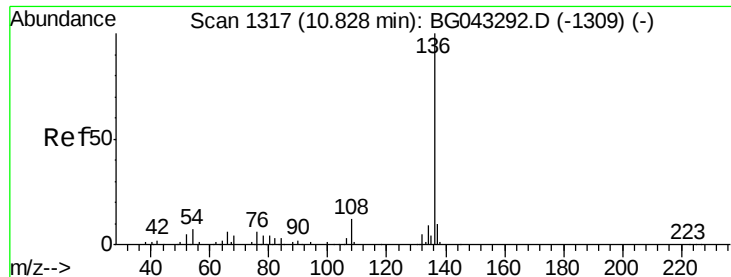
101 0.0 7.9 11.9#

130 2.8 19.0 28.4#



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

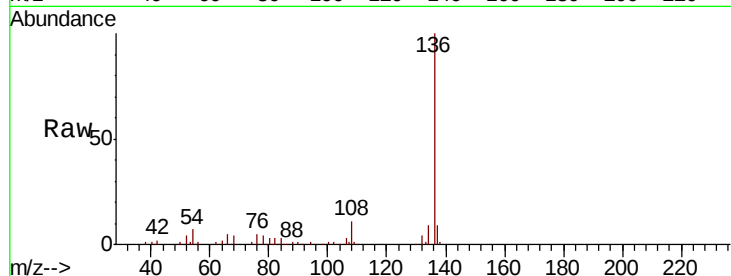




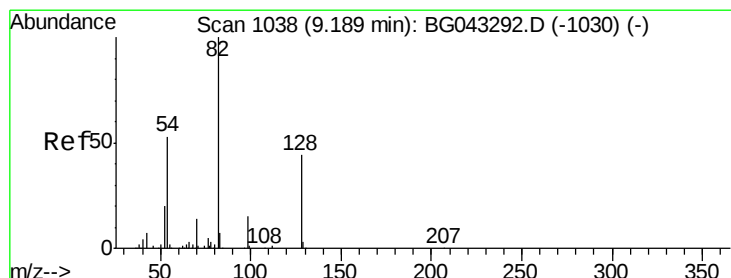
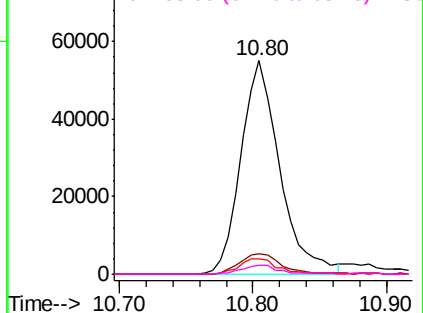
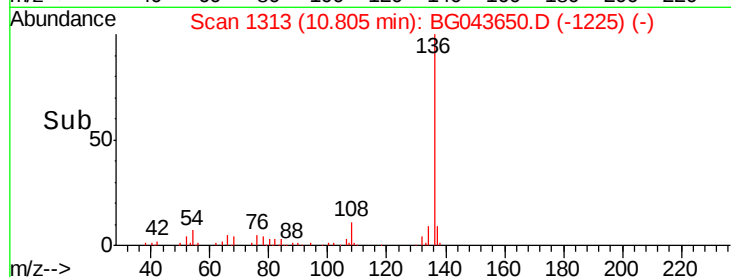
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.80 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BG043650.D  
Acq: 15 Nov 2019 7:38

Instrument :  
BNA\_G  
ClientSampleId :  
PB124801BL

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 111128 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 9.5     | 8.7   | 13.1   |
| 54 6.9      | 5.4   | 8.2    |
| 68 4.2      | 3.0   | 4.4    |

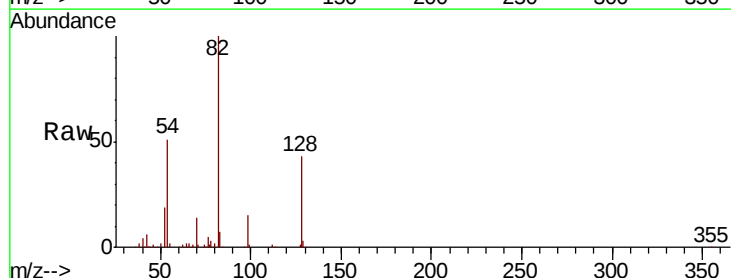


Abundance Ion 136.00 (135.70 to 136.70): B  
Ion 137.00 (136.70 to 137.70): B  
Ion 54.00 (53.70 to 54.70): B  
Ion 68.00 (67.70 to 68.70): B

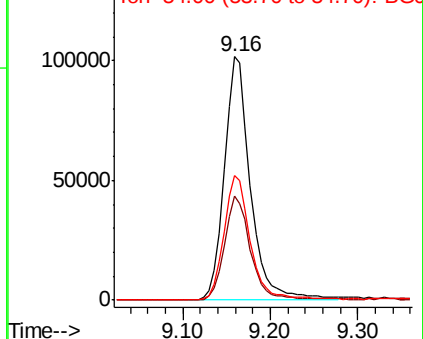
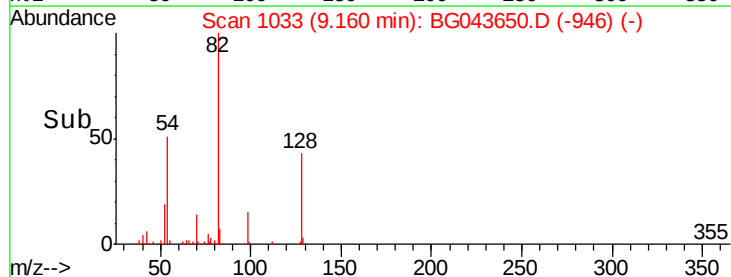


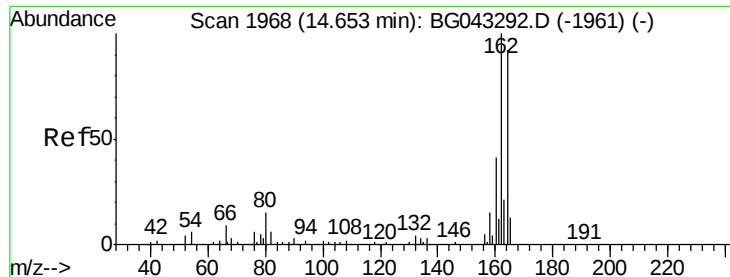
#23  
Nitrobenzene-d5  
Concen: 96.573 ng  
RT: 9.16 min Scan# 1033  
Delta R.T. -0.02 min  
Lab File: BG043650.D  
Acq: 15 Nov 2019 7:38

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 208168 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 42.9    | 35.0 52.6    |
| 54 51.0     | 40.2 60.2    |



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: 14.63 min Scan# 1964

Delta R.T. -0.01 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

Instrument :

BNA\_G

ClientSampleId :

PB124801BL

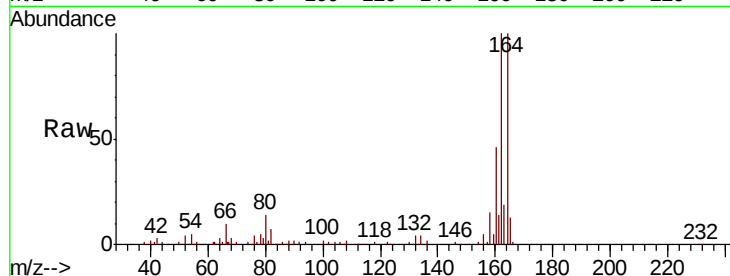
Tot Ion:164 Resp: 83351

Ion Ratio Lower Upper

164 100

162 100.0 83.5 125.3

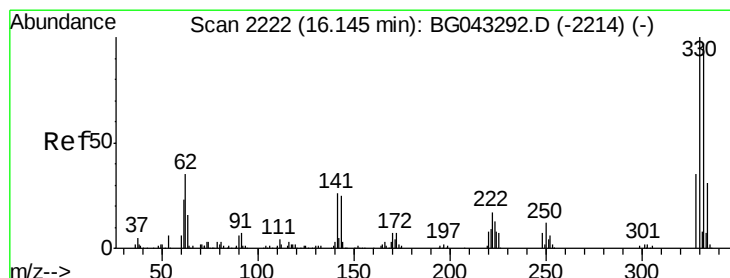
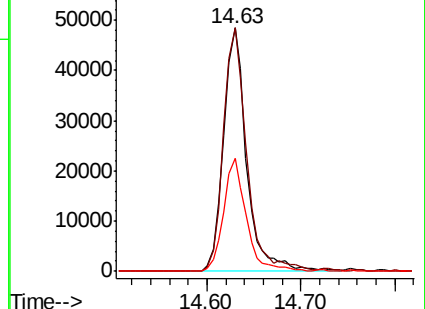
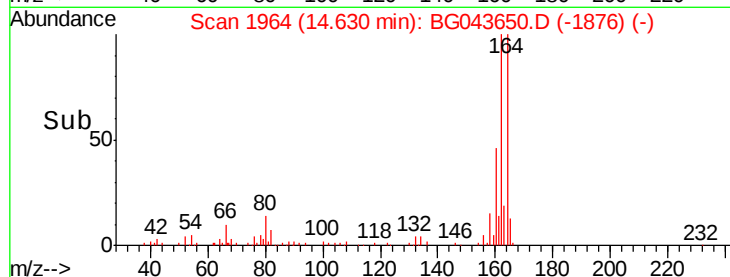
160 46.5 36.5 54.7



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: 127.761 ng

RT: 16.12 min Scan# 2218

Delta R.T. -0.01 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

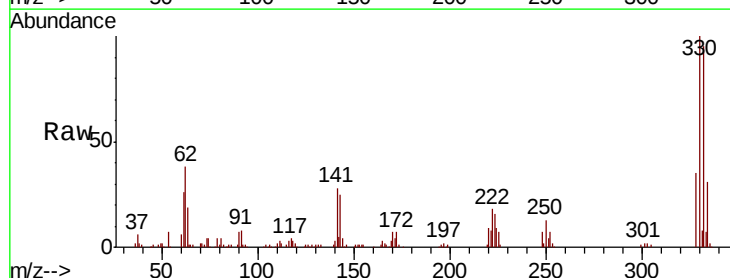
Tgt Ion:330 Resp: 202651

Ion Ratio Lower Upper

330 100

332 96.2 77.4 116.0

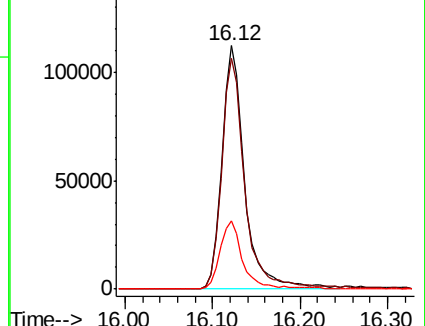
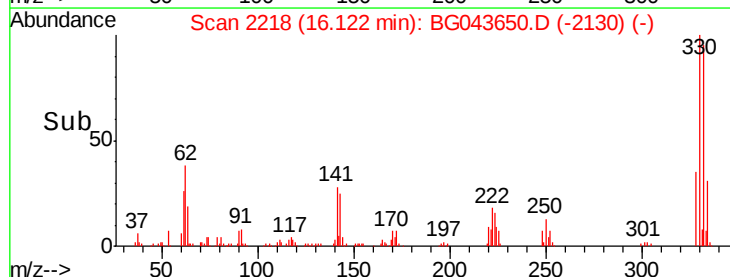
141 28.6 22.8 34.2

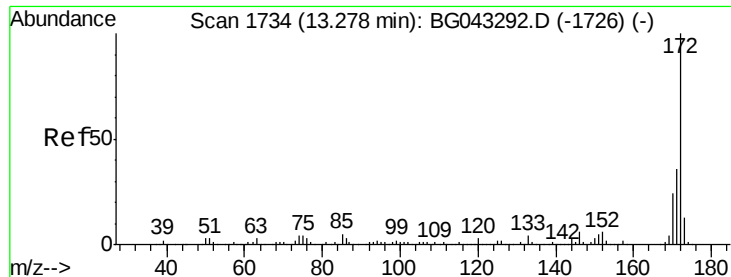


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

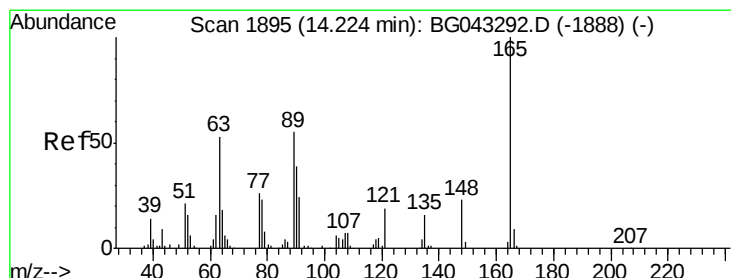
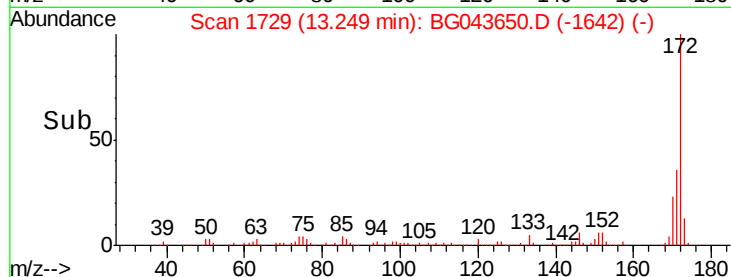
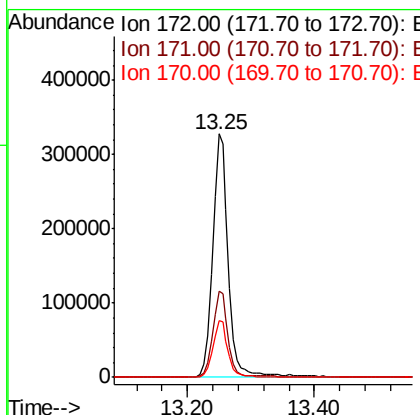
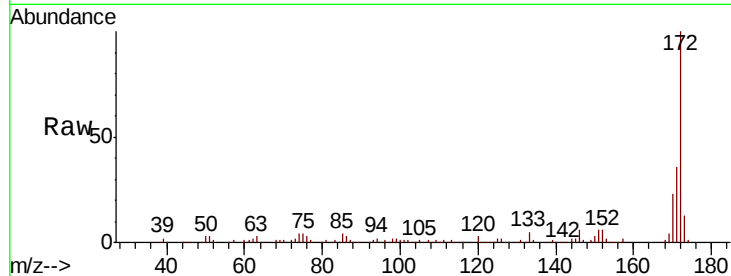




#45  
 2-Fluorobiphenyl  
 Concen: 94.621 ng  
 RT: 13.25 min Scan# 1729  
 Delta R.T. -0.02 min  
 Lab File: BG043650.D  
 Acq: 15 Nov 2019 7:38

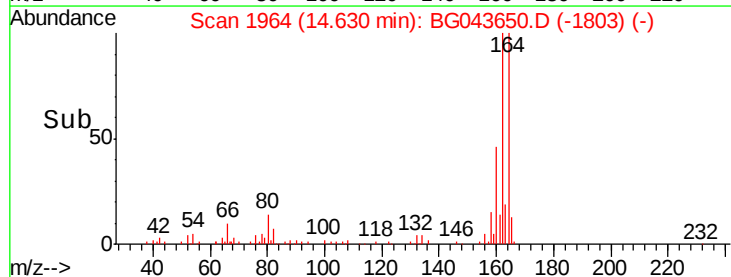
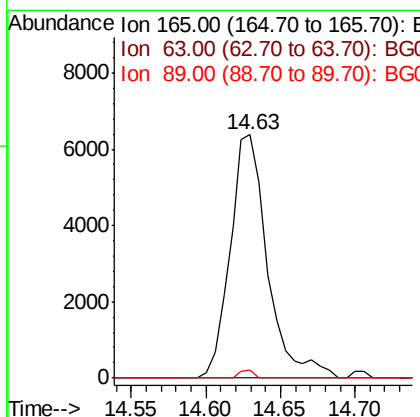
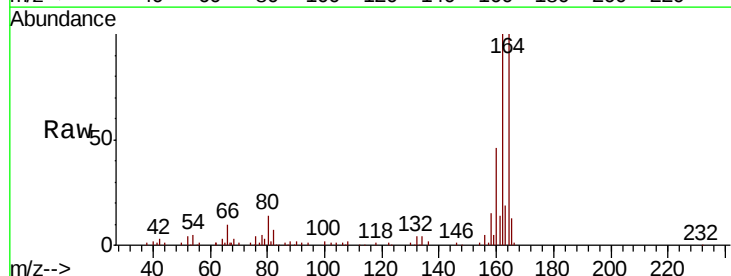
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB124801BL

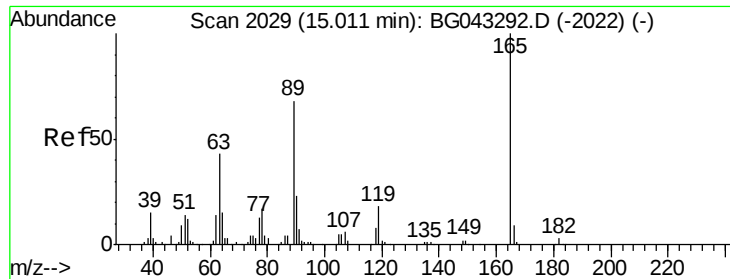
Tot Ion:172 Resp: 570761  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 28.9 43.3  
 170 23.4 18.5 27.7



#51  
 2,6-Dinitrotoluene  
 Concen: 7.929 ng  
 RT: 14.63 min Scan# 1964  
 Delta R.T. 0.42 min  
 Lab File: BG043650.D  
 Acq: 15 Nov 2019 7:38

Tgt Ion:165 Resp: 11121  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 46.6 69.8#  
 89 3.3 45.1 67.7#





#57

2,4-Dinitrotoluene

Concen: 5.548 ng

RT: 14.63 min Scan# 1964

Delta R.T. -0.38 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

Instrument :

BNA\_G

ClientSampleId :

PB124801BL

Tot Ion:165 Resp: 11121

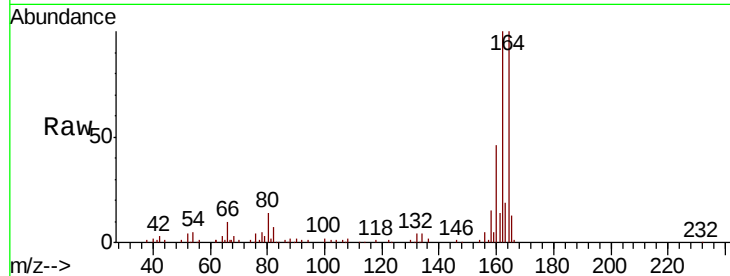
Ion Ratio Lower Upper

165 100

63 0.0 33.2 49.8#

89 3.3 52.2 78.4#

182 0.0 2.0 3.0#

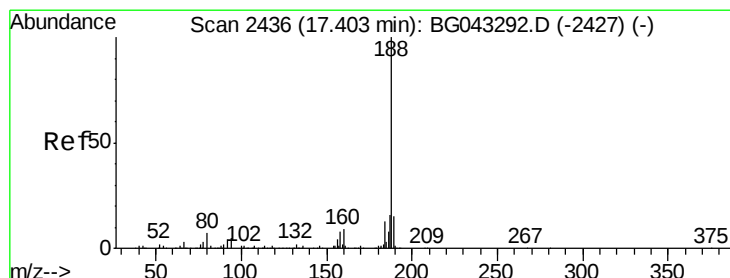
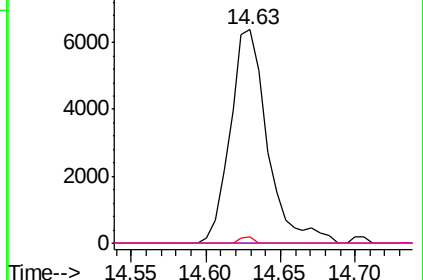
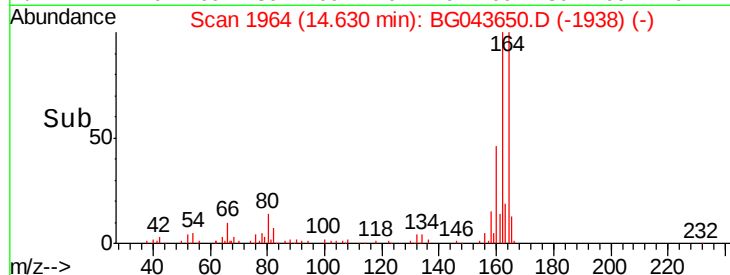


Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.37 min Scan# 2431

Delta R.T. -0.02 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

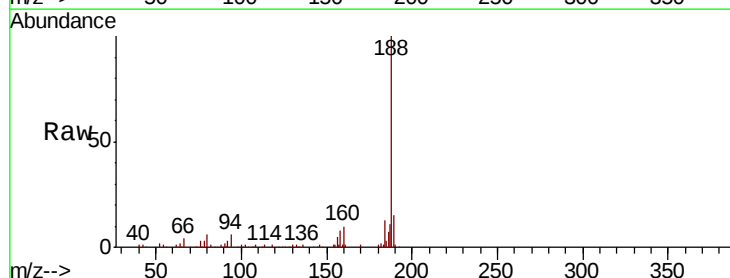
Tgt Ion:188 Resp: 190865

Ion Ratio Lower Upper

188 100

94 6.3 4.2 6.4

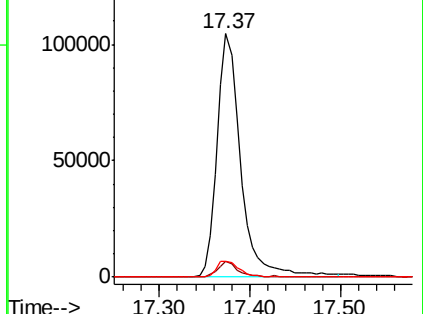
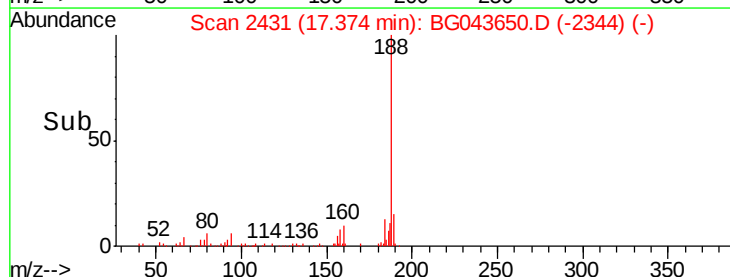
80 6.4 4.5 6.7

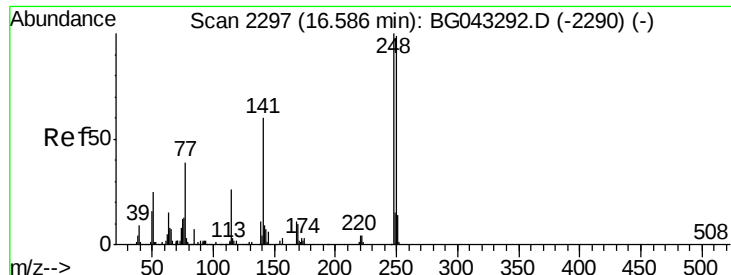


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

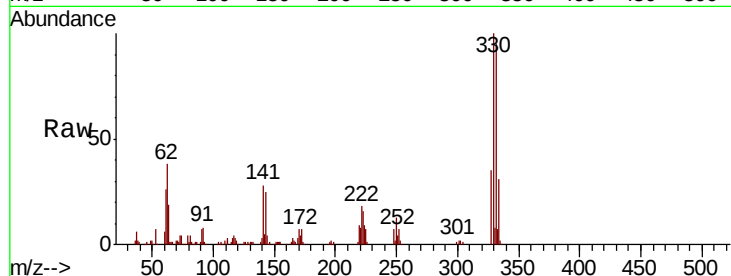




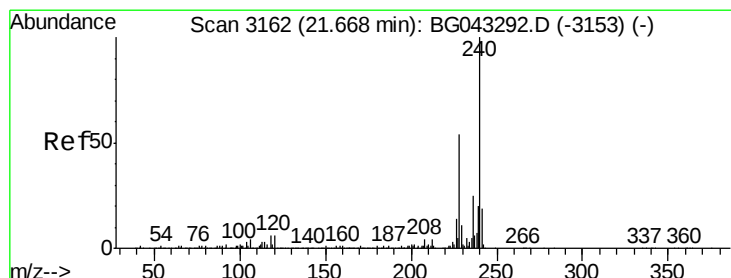
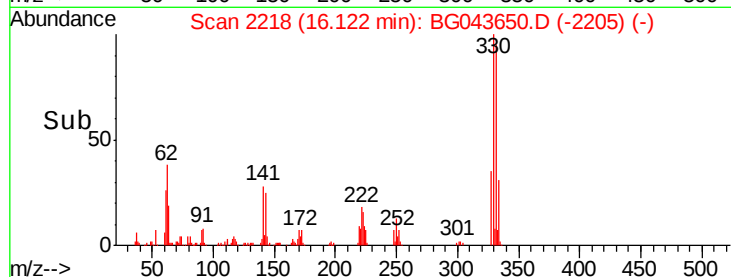
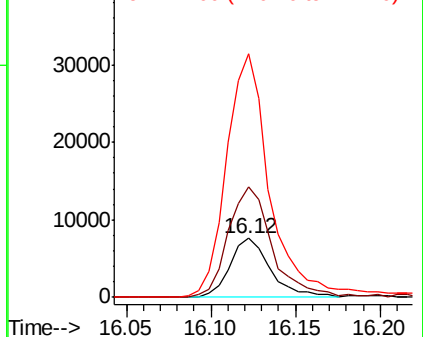
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.957 ng  
 RT: 16.12 min Scan# 2218  
 Delta R.T. -0.45 min  
 Lab File: BG043650.D  
 Acq: 15 Nov 2019 7:38

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB124801BL

Tot Ion:248 Resp: 12733  
 Ion Ratio Lower Upper  
 248 100  
 250 188.0 77.0 115.4#  
 141 412.3 47.5 71.3#

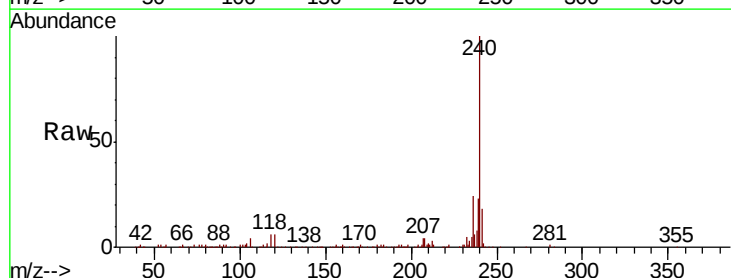


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

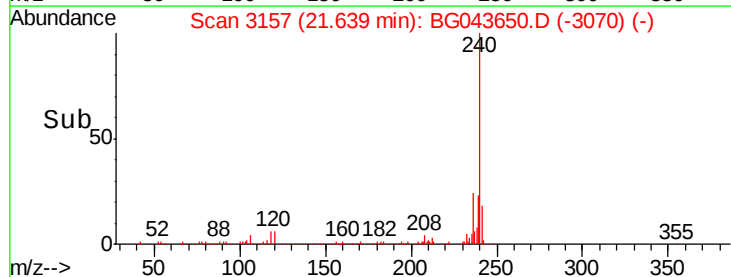
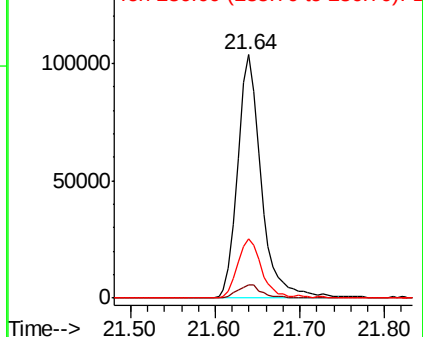


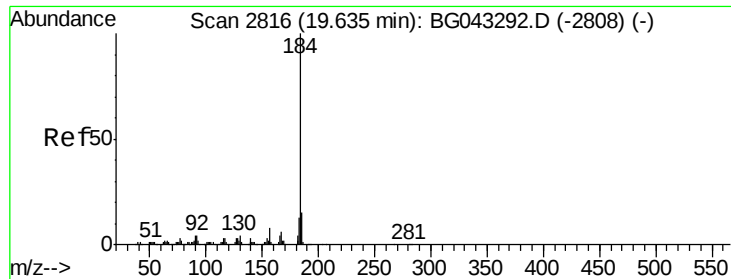
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.64 min Scan# 3157  
 Delta R.T. -0.02 min  
 Lab File: BG043650.D  
 Acq: 15 Nov 2019 7:38

Tgt Ion:240 Resp: 199321  
 Ion Ratio Lower Upper  
 240 100  
 120 5.6 4.6 6.8  
 236 24.1 19.8 29.8



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





#77

Benzidine

Concen: 4.109 ng

RT: 19.98 min Scan# 2875

Delta R.T. 0.36 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

Instrument :

BNA\_G

ClientSampleId :

PB124801BL

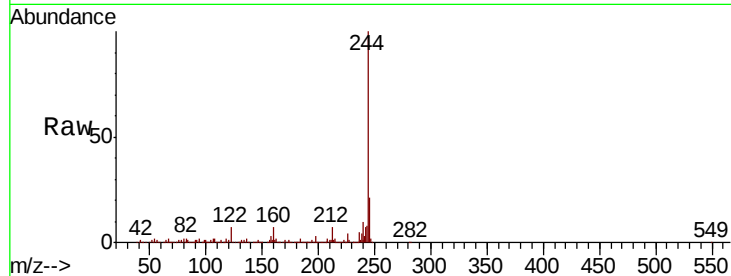
Tot Ion:184 Resp: 16483

Ion Ratio Lower Upper

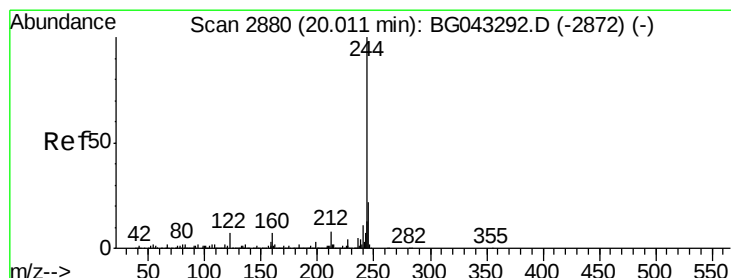
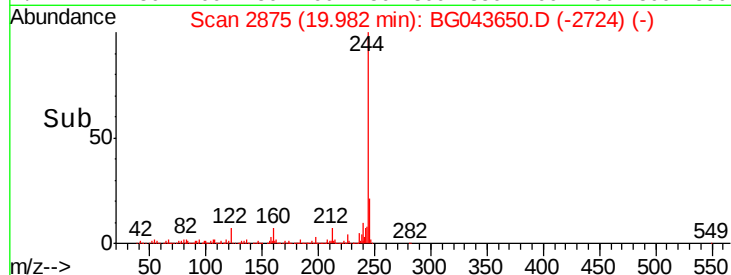
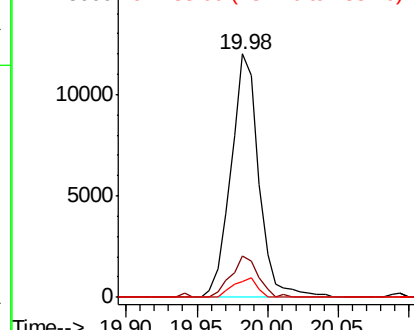
184 100

185 17.3 11.0 16.4#

183 6.3 10.0 15.0#



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: 103.126 ng

RT: 19.98 min Scan# 2875

Delta R.T. -0.02 min

Lab File: BG043650.D

Acq: 15 Nov 2019 7:38

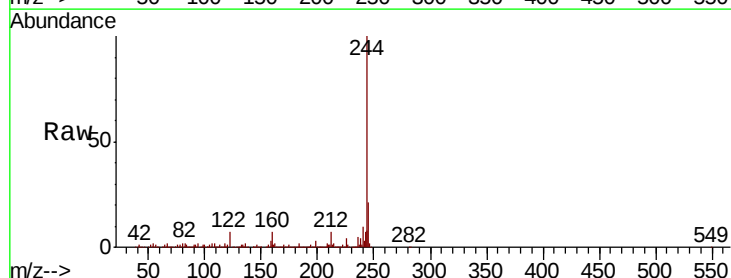
Tgt Ion:244 Resp: 1095654

Ion Ratio Lower Upper

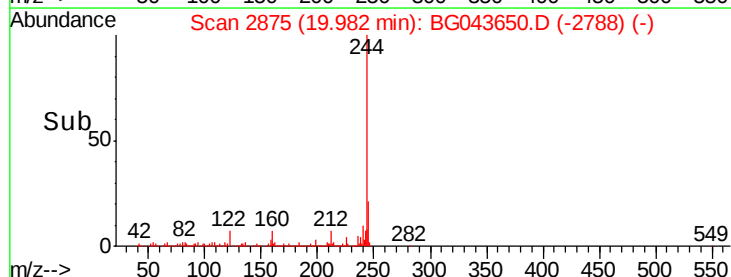
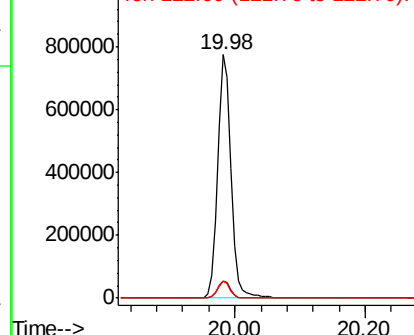
244 100

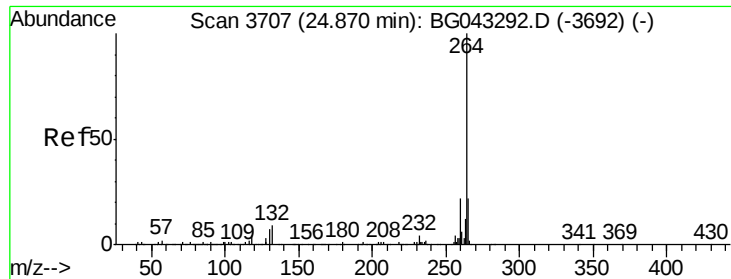
212 7.2 5.8 8.6

122 6.9 5.4 8.2



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  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.82 min Scan# 3699  
 Delta R.T. -0.03 min  
 Lab File: BG043650.D  
 Acq: 15 Nov 2019 7:38

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB124801BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 17.5  | 26.3  |
| 265     | 21.9  | 17.4  | 26.0  |

