

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122617\  
 Data File : BG031780.D  
 Acq On : 27 Dec 2017 3:24  
 Operator : SJ/JU  
 Sample : I6684-06  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BU-01-122217

Quant Time: Dec 27 04:53:53 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG122117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 22 11:08:55 2017  
 Response via : Initial Calibration

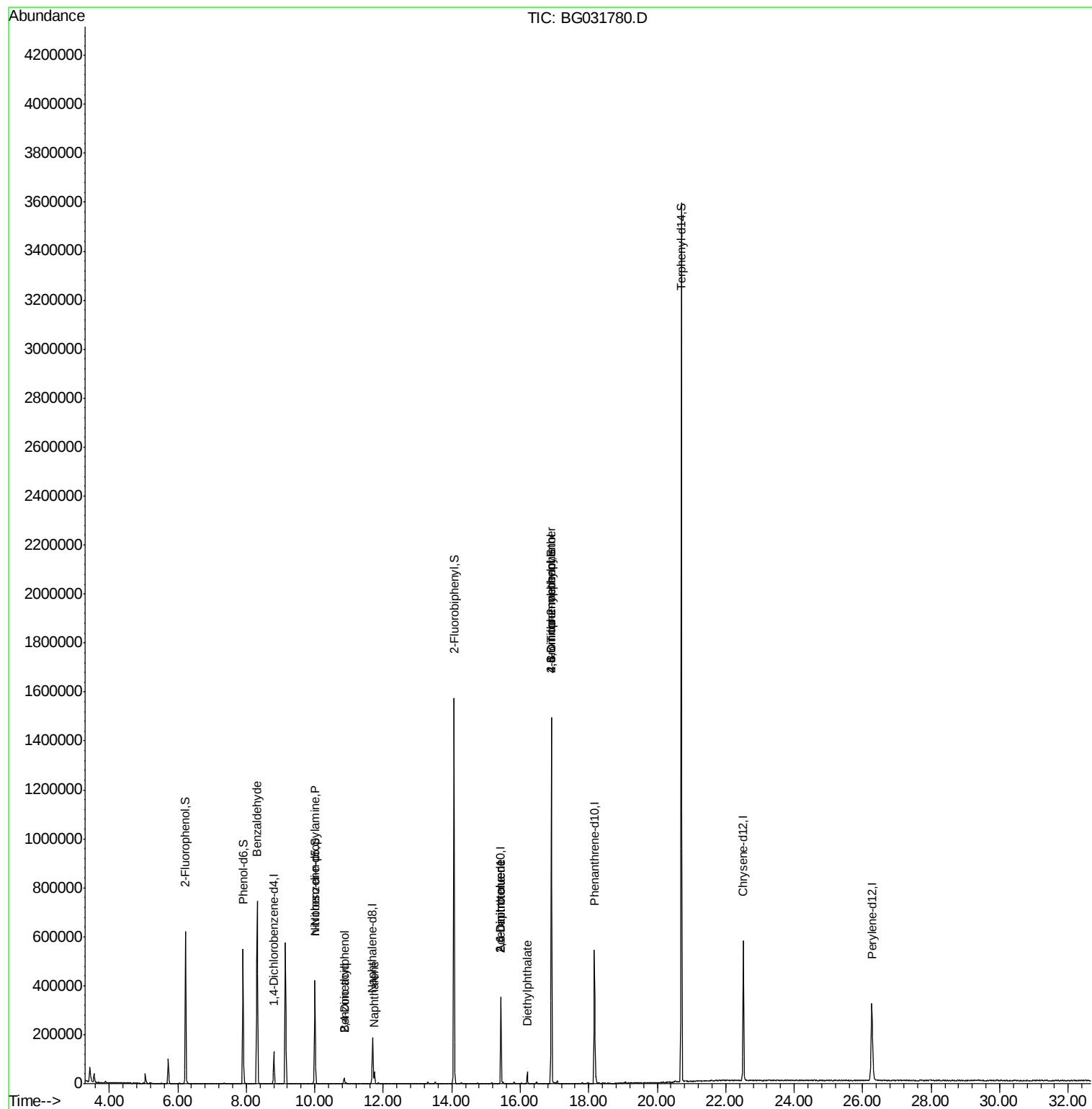
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.81  | 152  | 47889    | 20.00  | ng    | -0.03     |
| 21) Naphthalene-d8             | 11.69 | 136  | 192229   | 20.00  | ng    | -0.03     |
| 38) Acenaphthene-d10           | 15.43 | 164  | 134855   | 20.00  | ng    | -0.03     |
| 63) Phenanthrene-d10           | 18.17 | 188  | 374186   | 20.00  | ng    | -0.04     |
| 75) Chrysene-d12               | 22.51 | 240  | 454709   | 20.00  | ng    | -0.06     |
| 86) Perylene-d12               | 26.27 | 264  | 451971   | 20.00  | ng    | -0.09     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 6.23  | 112  | 345314   | 131.33 | ng    | -0.02     |
| 7) Phenol-d6                   | 7.91  | 99   | 385321   | 112.88 | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 10.00 | 82   | 274047   | 107.65 | ng    | -0.03     |
| 41) 2,4,6-Tribromophenol       | 16.91 | 330  | 362957   | 176.39 | ng    | -0.03     |
| 44) 2-Fluorobiphenyl           | 14.06 | 172  | 985392   | 91.71  | ng    | -0.03     |
| 78) Terphenyl-d14              | 20.70 | 244  | 1997193  | 100.35 | ng    | -0.03     |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 8.32  | 77   | 9152     | 4.45   | ng    | Qvalue 94 |
| 19) n-Nitroso-di-n-propylamine | 10.00 | 70   | 36132    | 15.50  | ng    | # 65      |
| 27) 2,4-Dimethylphenol         | 10.86 | 122  | 13239    | 4.57   | ng    | # 1       |
| 31) Naphthalene                | 11.74 | 128  | 43631    | 4.50   | ng    | 95        |
| 32) Benzoic acid               | 10.86 | 122  | 13239    | 12.47  | ng    | # 66      |
| 50) 2,6-Dinitrotoluene         | 15.43 | 165  | 17258    | 7.90   | ng    | # 21      |
| 56) 2,4-Dinitrotoluene         | 15.43 | 165  | 17258    | 6.14   | ng    | # 18      |
| 59) Diethylphthalate           | 16.20 | 149  | 31939    | 2.76   | ng    | 96        |
| 64) 4,6-Dinitro-2-methylphenol | 16.91 | 198  | 819      | 8.68   | ng    | # 43      |
| 66) 4-Bromophenyl-phenylether  | 16.91 | 248  | 28869    | 5.34   | ng    | # 1       |

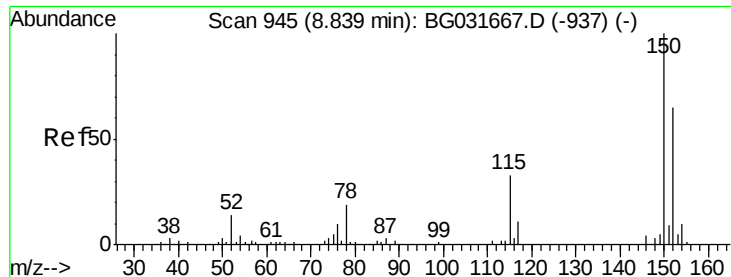
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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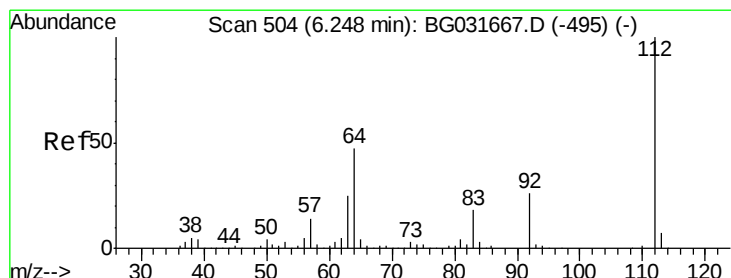
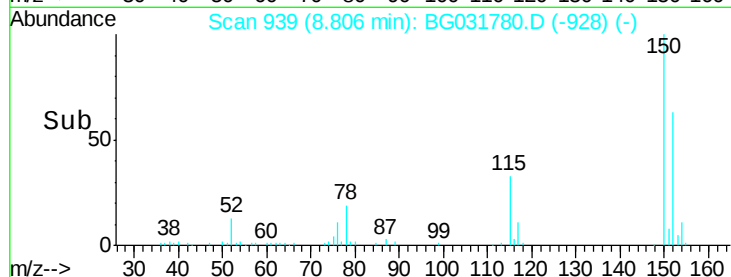
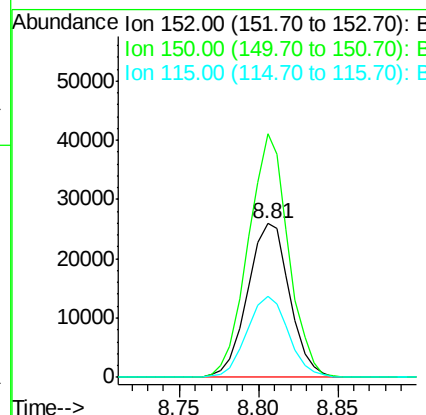
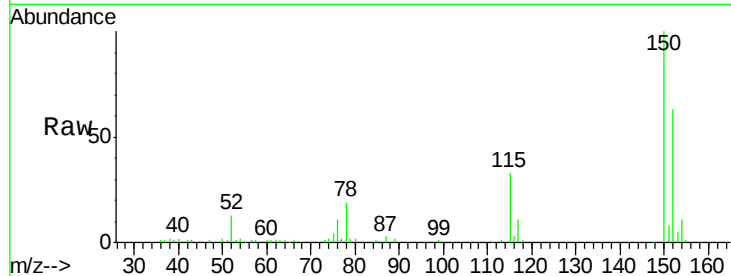




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 8.81 min Scan# 939  
 Delta R.T. -0.03 min  
 Lab File: BG031780.D  
 Acq: 27 Dec 2017 3:24

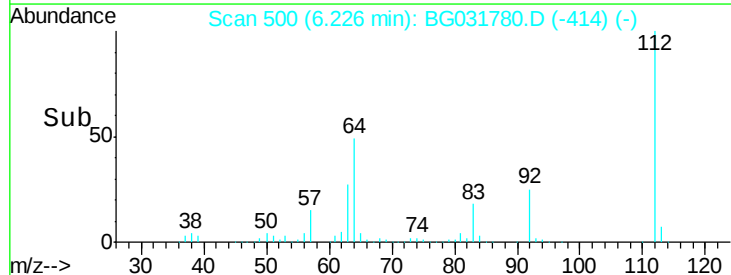
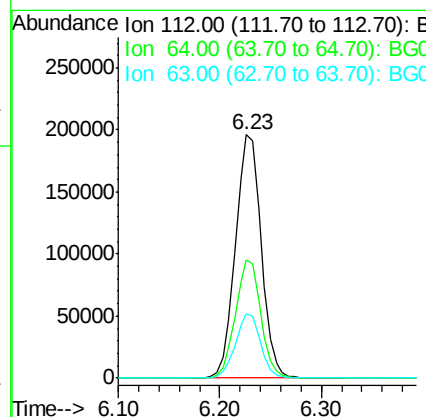
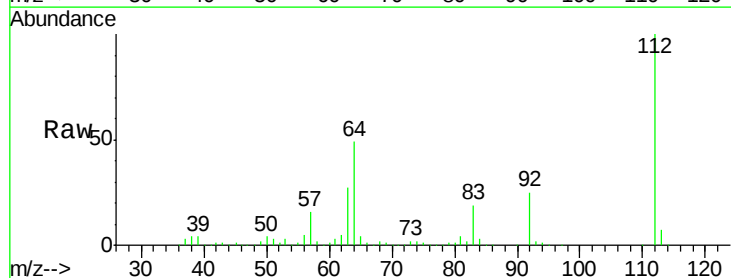
Instrument :  
 BNA\_G  
 ClientSampleId :  
 BU-01-122217

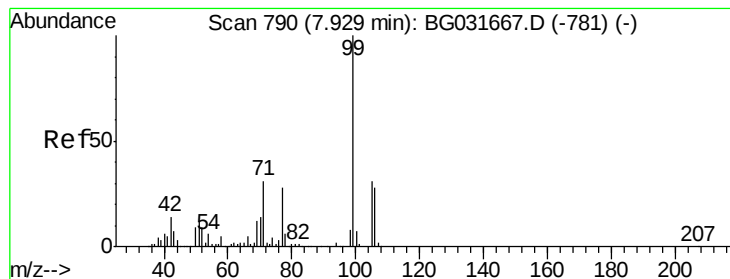
Tot Ion:152 Resp: 47889  
 Ion Ratio Lower Upper  
 152 100  
 150 158.7 126.6 189.8  
 115 53.1 53.0 79.4



#5  
 2-Fluorophenol  
 Concen: 131.33 ng  
 RT: 6.23 min Scan# 500  
 Delta R.T. -0.02 min  
 Lab File: BG031780.D  
 Acq: 27 Dec 2017 3:24

Tgt Ion:112 Resp: 345314  
 Ion Ratio Lower Upper  
 112 100  
 64 48.6 56.3 84.5#  
 63 26.6 30.1 45.1#





#7

Phenol-d6

Concen: 112.88 ng

RT: 7.91 min Scan# 786

Delta R.T. -0.02 min

Lab File: BG031780.D

Acq: 27 Dec 2017 3:24

Instrument :

BNA\_G

ClientSampleId :

BU-01-122217

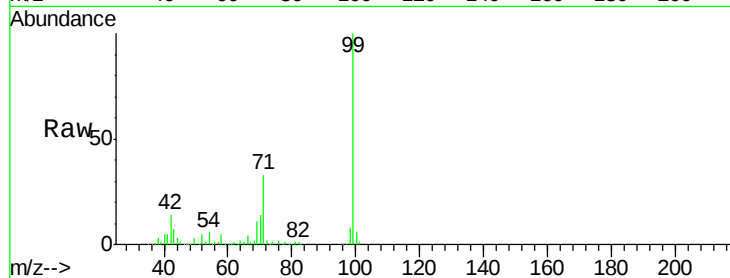
Tot Ion: 99 Resp: 385321

Ion Ratio Lower Upper

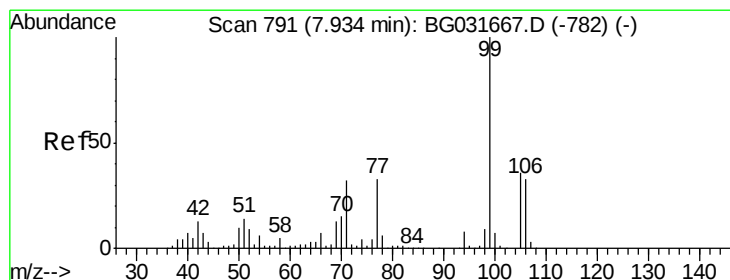
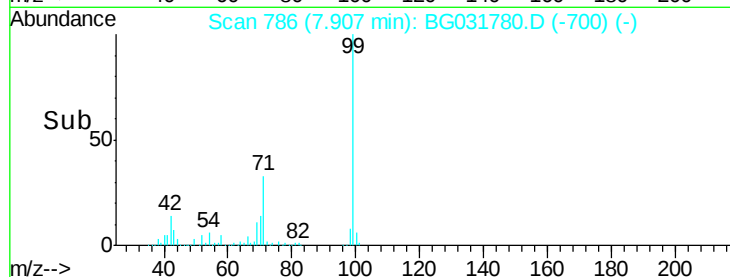
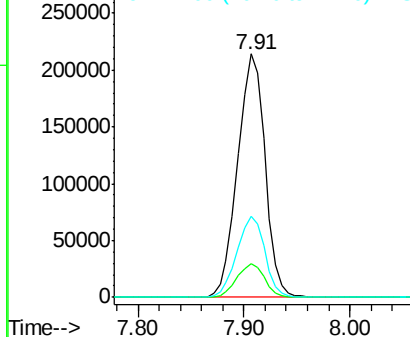
99 100

42 13.8 14.1 21.1#

71 33.4 26.1 39.1



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



#9

Benzaldehyde

Concen: 4.45 ng

RT: 8.32 min Scan# 856

Delta R.T. 0.38 min

Lab File: BG031780.D

Acq: 27 Dec 2017 3:24

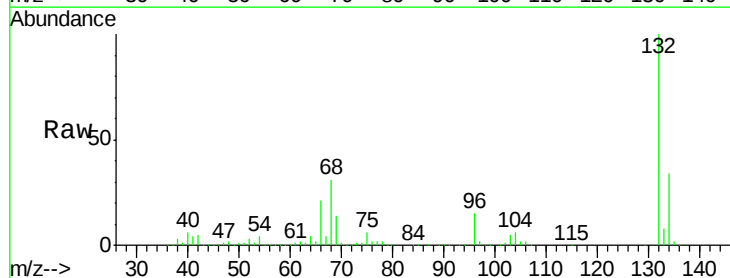
Tgt Ion: 77 Resp: 9152

Ion Ratio Lower Upper

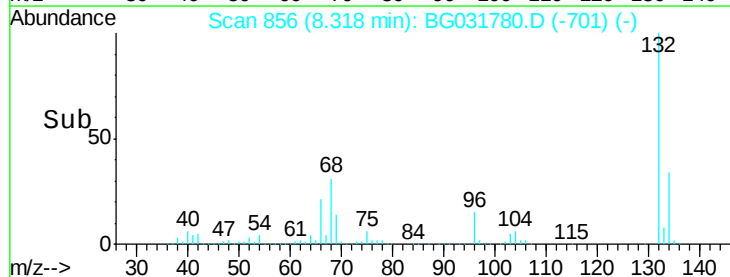
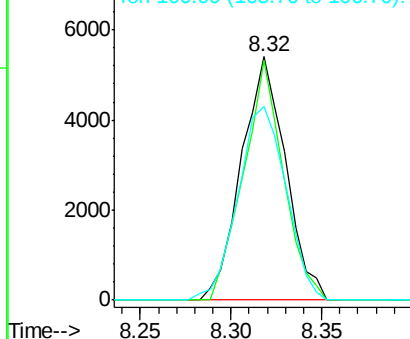
77 100

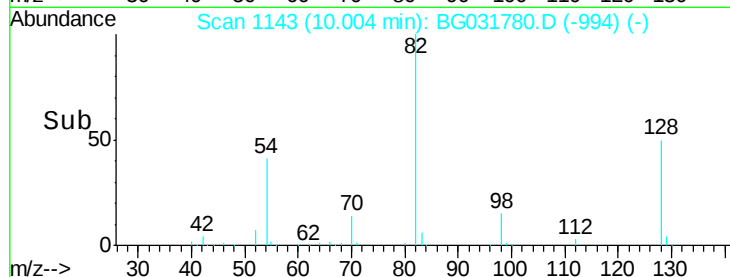
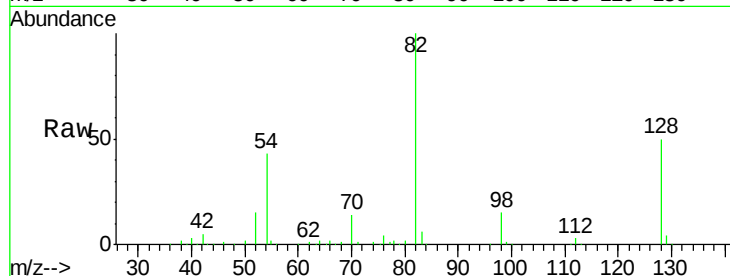
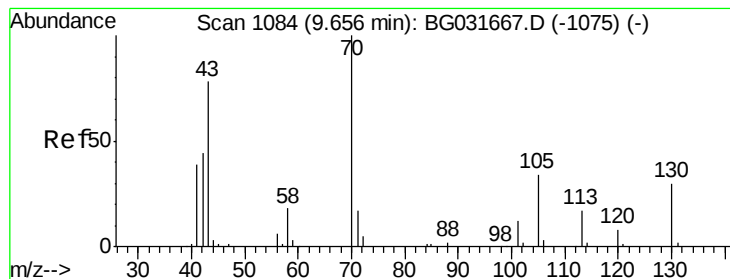
105 98.3 71.3 111.3

106 79.3 64.2 104.2



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC





#19

n-Nitroso-di-n-propylamine

Concen: 15.50 ng

RT: 10.00 min Scan# 1143

Delta R.T. 0.35 min

Lab File: BG031780.D

Acq: 27 Dec 2017 3:24

Instrument :

BNA\_G

ClientSampleId :

BU-01-122217

Tot Ion: 70 Resp: 36132

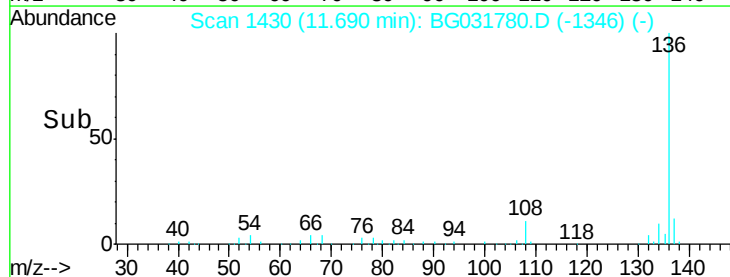
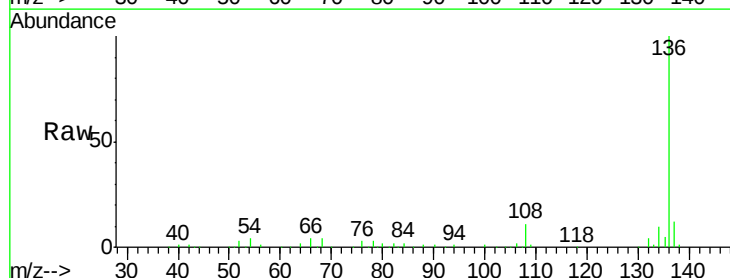
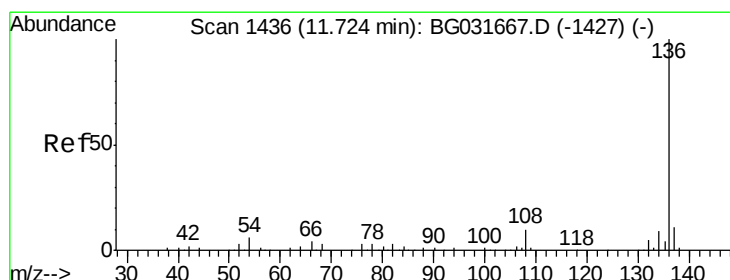
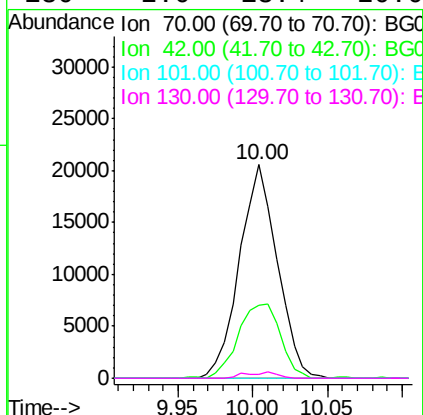
Ion Ratio Lower Upper

70 100

42 34.0 49.1 73.7#

101 0.0 8.5 12.7#

130 2.0 13.4 20.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.69 min Scan# 1430

Delta R.T. -0.03 min

Lab File: BG031780.D

Acq: 27 Dec 2017 3:24

Tgt Ion: 136 Resp: 192229

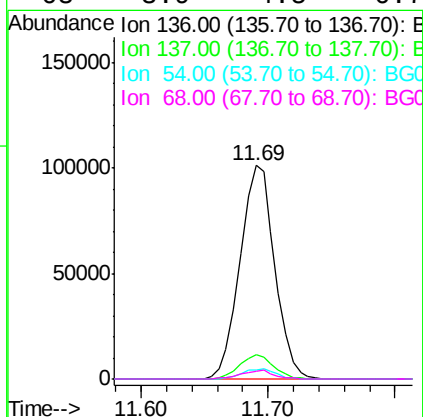
Ion Ratio Lower Upper

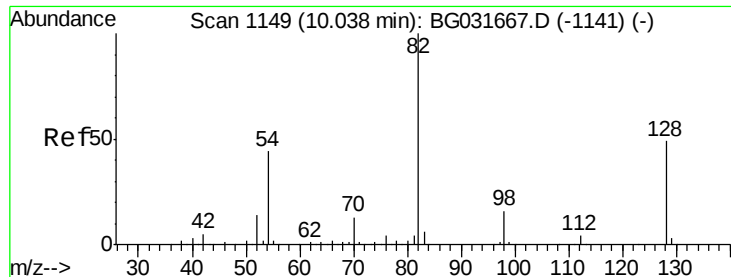
136 100

137 11.5 9.2 13.8

54 4.2 10.3 15.5#

68 3.9 4.5 6.7#

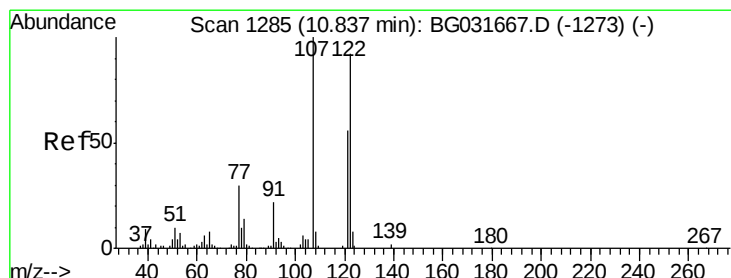
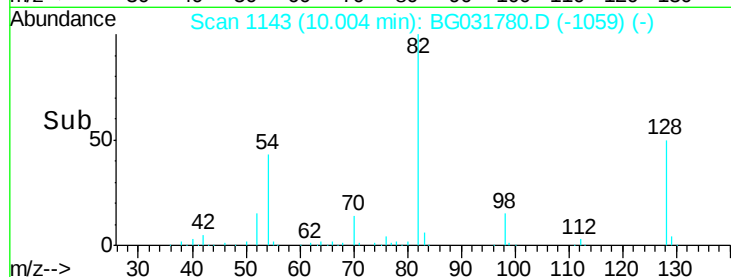
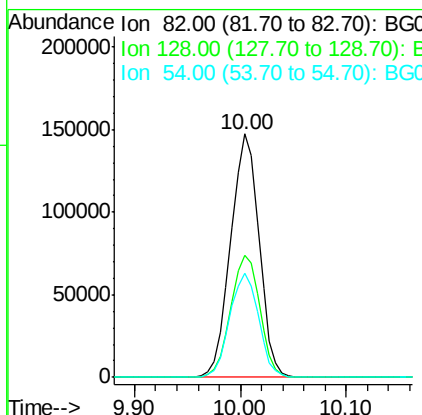
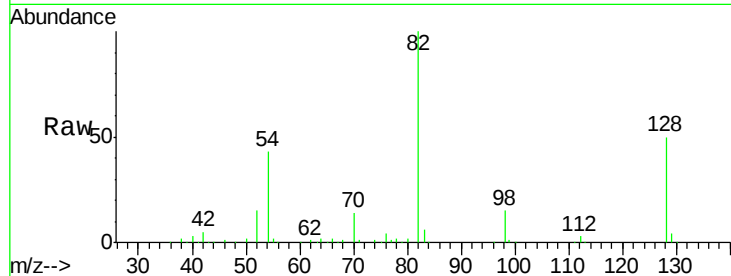




#23  
 Nitrobenzene-d5  
 Concen: 107.65 ng  
 RT: 10.00 min Scan# 1143  
 Delta R.T. -0.03 min  
 Lab File: BG031780.D  
 Acq: 27 Dec 2017 3:24

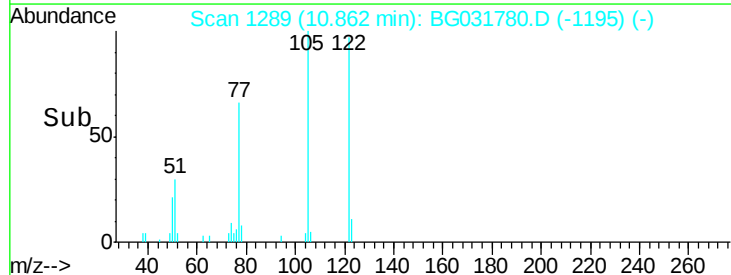
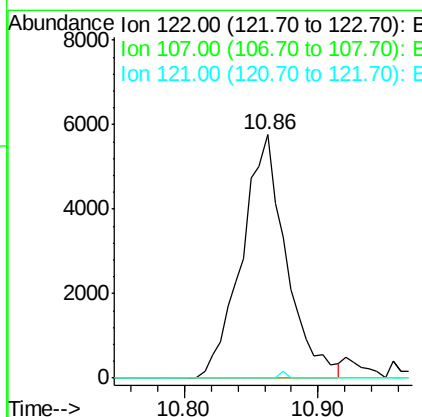
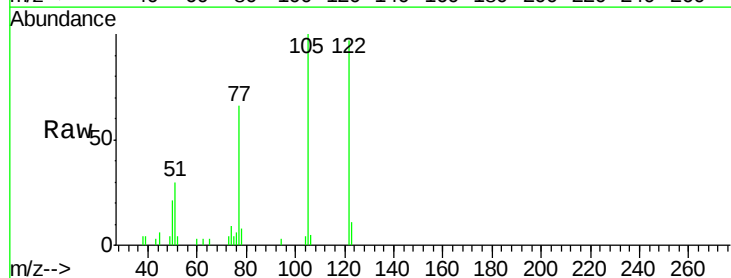
Instrument :  
 BNA\_G  
 ClientSampleId :  
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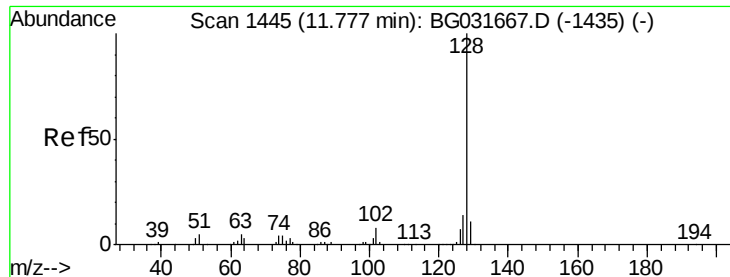
| Tot Ion   | 82    | Resp  | 274047 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 50.3  | 29.7  | 44.5#  |
| 54        | 42.6  | 43.1  | 64.7#  |



#27  
 2,4-Dimethylphenol  
 Concen: 4.57 ng  
 RT: 10.86 min Scan# 1289  
 Delta R.T. 0.03 min  
 Lab File: BG031780.D  
 Acq: 27 Dec 2017 3:24

| Tgt Ion                                           | 122   | Resp  | 13239  |
|---------------------------------------------------|-------|-------|--------|
| Ion Ratio <td>Lower</td> <td>Upper</td> <td></td> | Lower | Upper |        |
| 122                                               | 100   |       |        |
| 107                                               | 0.0   | 100.2 | 150.2# |
| 121                                               | 0.0   | 44.4  | 66.6#  |

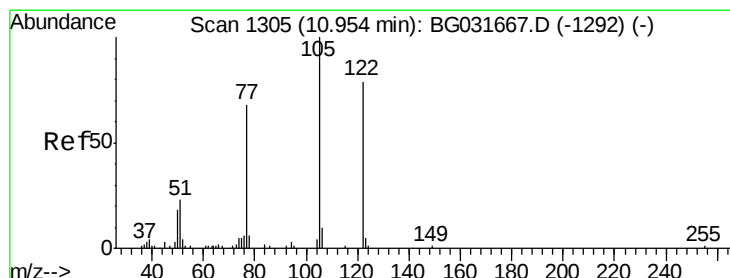
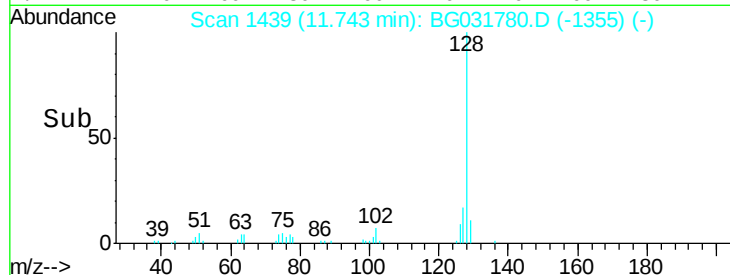
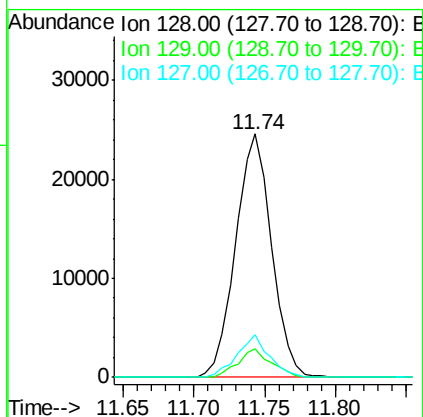
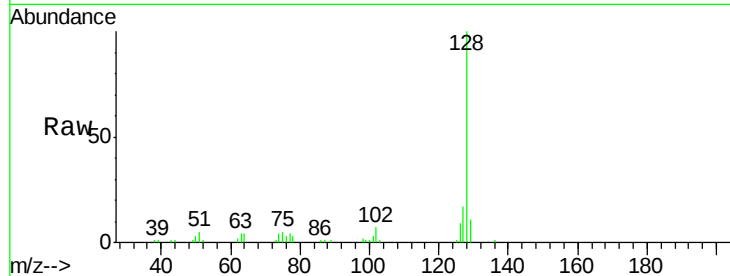




#31  
Naphthalene  
Concen: 4.50 ng  
RT: 11.74 min Scan# 1439  
Delta R.T. -0.03 min  
Lab File: BG031780.D  
Acq: 27 Dec 2017 3:24

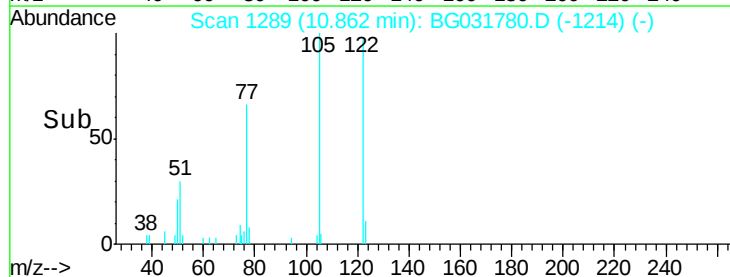
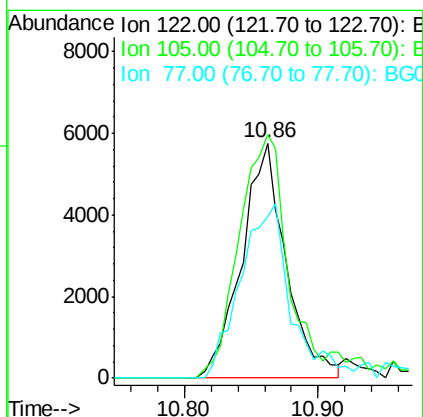
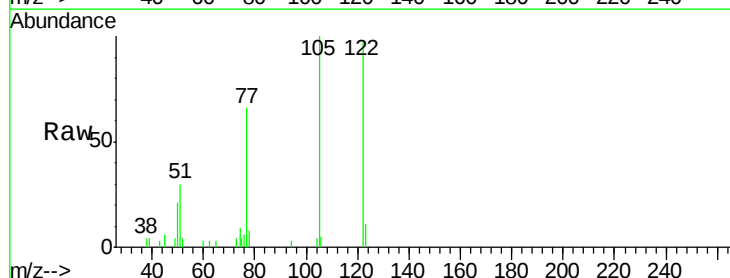
Instrument :  
BNA\_G  
ClientSampleId :  
BU-01-122217

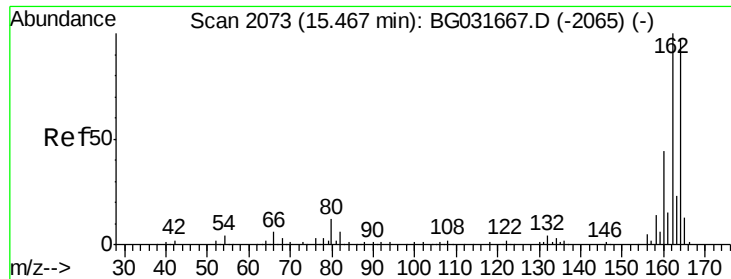
Tot Ion:128 Resp: 43631  
Ion Ratio Lower Upper  
128 100  
129 11.5 8.6 12.8  
127 17.3 11.6 17.4



#32  
Benzoic acid  
Concen: 12.47 ng  
RT: 10.86 min Scan# 1289  
Delta R.T. -0.09 min  
Lab File: BG031780.D  
Acq: 27 Dec 2017 3:24

Tgt Ion:122 Resp: 13239  
Ion Ratio Lower Upper  
122 100  
105 103.6 123.5 163.5#  
77 68.8 85.7 125.7#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.43 min Scan# 2067

Delta R.T. -0.03 min

Lab File: BG031780.D

Acq: 27 Dec 2017 3:24

Instrument :

BNA\_G

ClientSampleId :

BU-01-122217

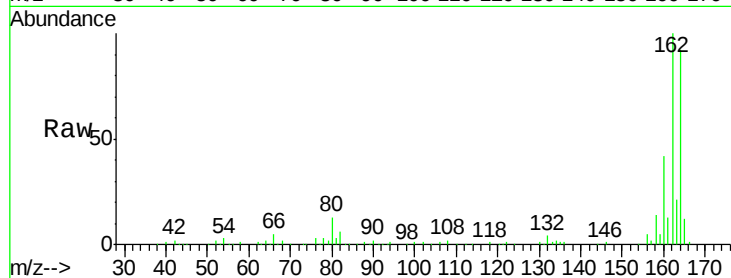
Tot Ion:164 Resp: 134855

Ion Ratio Lower Upper

164 100

162 108.6 78.8 118.2

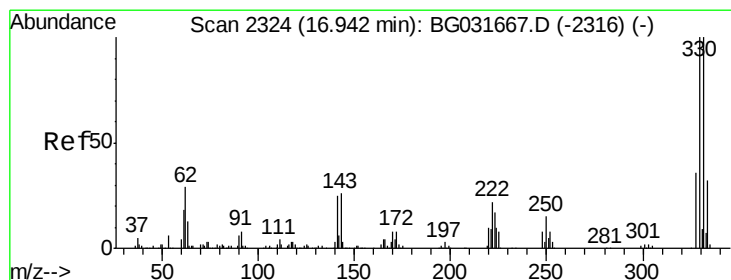
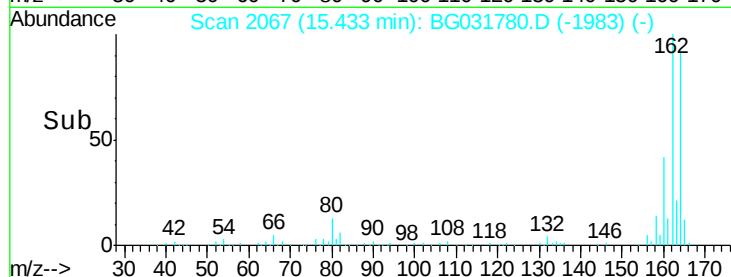
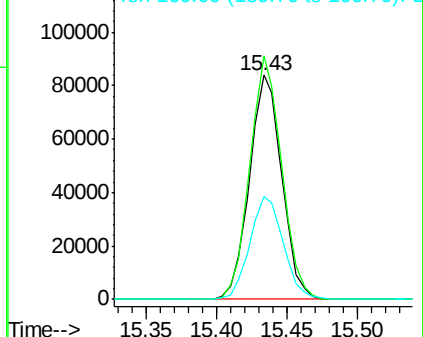
160 45.6 35.4 53.0



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



#41

2,4,6-Tribromophenol

Concen: 176.39 ng

RT: 16.91 min Scan# 2318

Delta R.T. -0.03 min

Lab File: BG031780.D

Acq: 27 Dec 2017 3:24

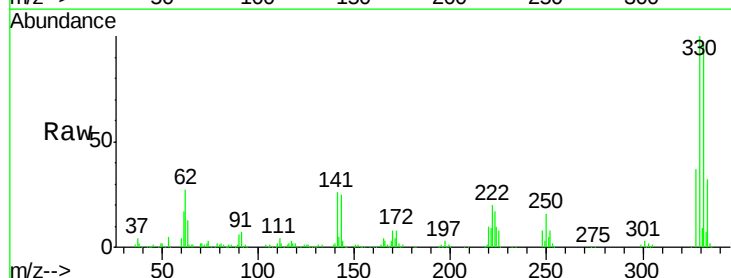
Tgt Ion:330 Resp: 362957

Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.6

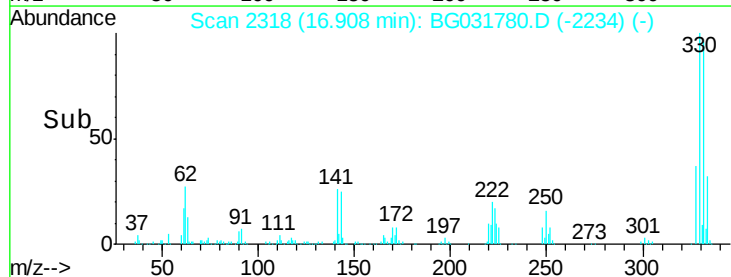
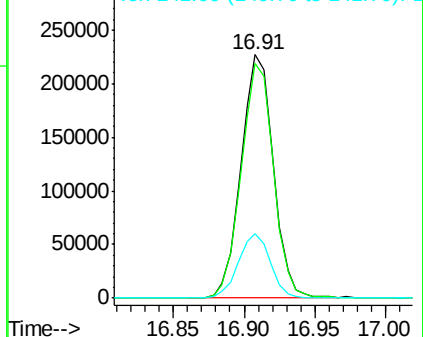
141 26.2 25.2 37.8

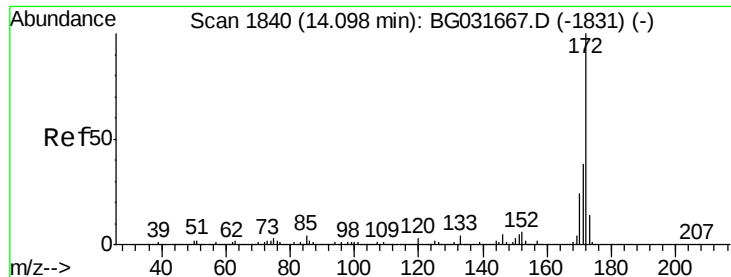


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

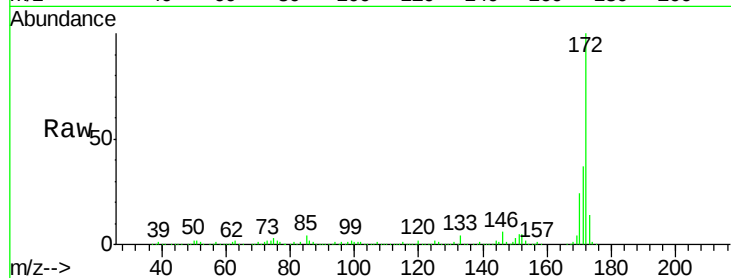




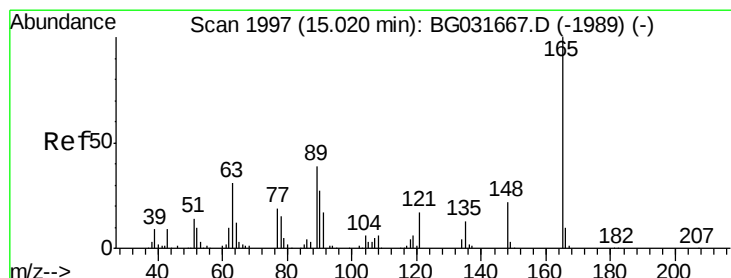
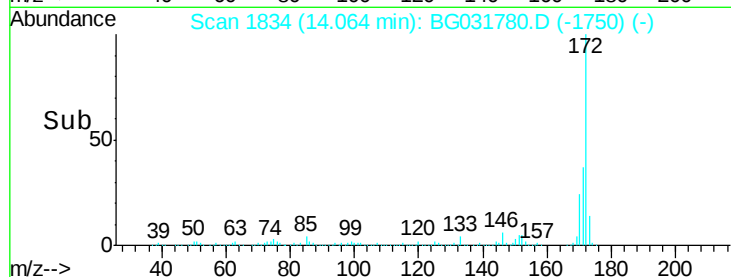
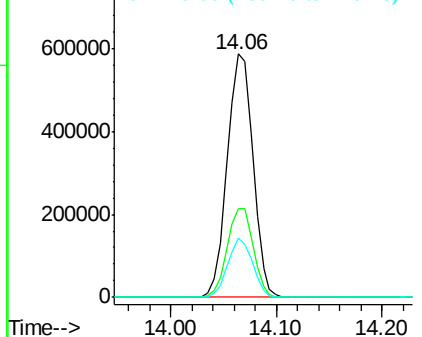
#44  
2-Fluorobiphenyl  
Concen: 91.71 ng  
RT: 14.06 min Scan# 1834  
Delta R.T. -0.03 min  
Lab File: BG031780.D  
Acq: 27 Dec 2017 3:24

Instrument :  
BNA\_G  
ClientSampleId :  
BU-01-122217

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 30.0  | 45.0  |
| 170     | 24.3  | 19.5  | 29.3  |

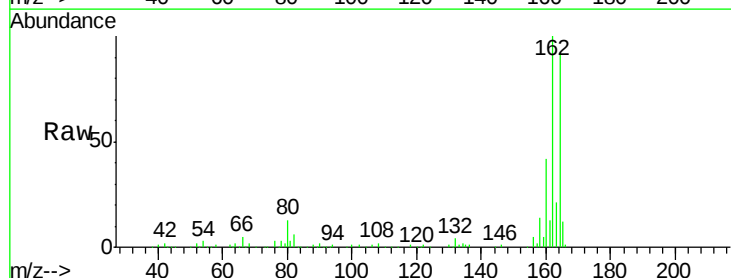


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

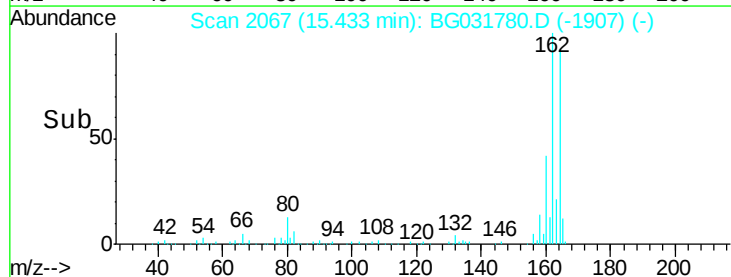
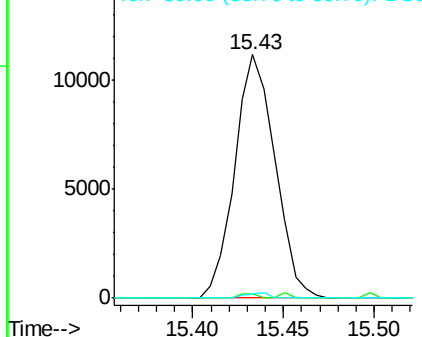


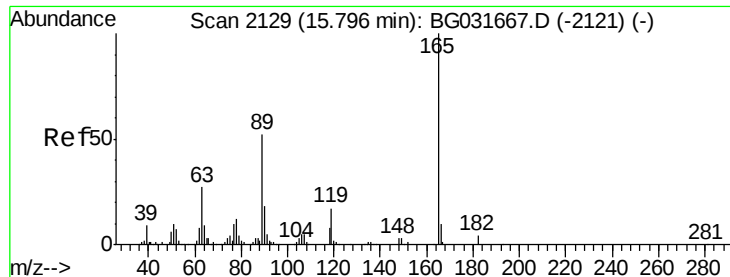
#50  
2,6-Dinitrotoluene  
Concen: 7.90 ng  
RT: 15.43 min Scan# 2067  
Delta R.T. 0.41 min  
Lab File: BG031780.D  
Acq: 27 Dec 2017 3:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 52.7  | 79.1# |
| 89      | 1.7   | 49.2  | 73.8# |



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BG0  
Ion 89.00 (88.70 to 89.70): BG0

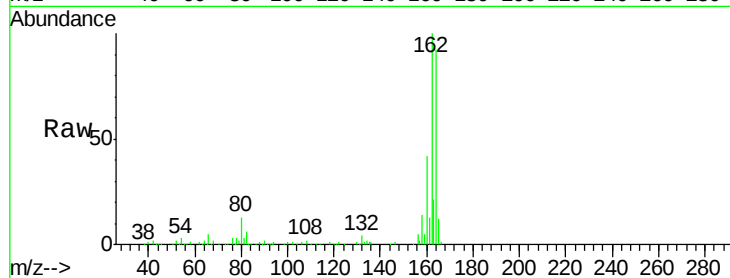




#56  
 2,4-Dinitrotoluene  
 Concen: 6.14 ng  
 RT: 15.43 min Scan# 2067  
 Delta R.T. -0.36 min  
 Lab File: BG031780.D  
 Acq: 27 Dec 2017 3:24

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BU-01-122217

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:165 | Resp: | 17258       |
| Ion Ratio   | Lower | Upper       |
| 165         | 100   |             |
| 63          | 1.8   | 42.0 63.0#  |
| 89          | 1.7   | 66.9 100.3# |
| 182         | 0.0   | 2.6 3.8#    |

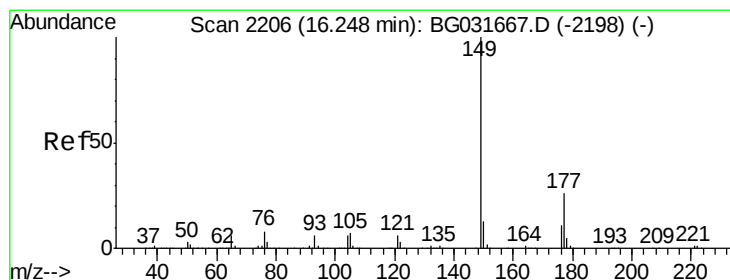
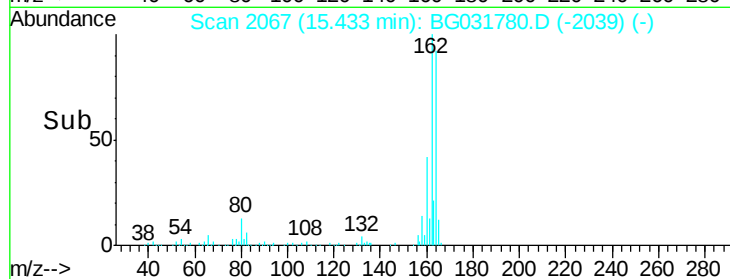
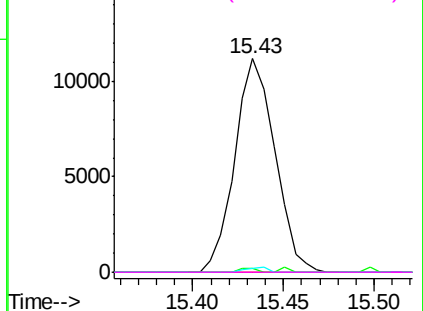


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

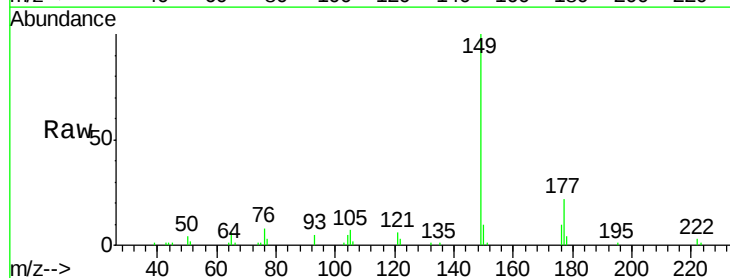
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#59  
 Diethylphthalate  
 Concen: 2.76 ng  
 RT: 16.20 min Scan# 2198  
 Delta R.T. -0.05 min  
 Lab File: BG031780.D  
 Acq: 27 Dec 2017 3:24

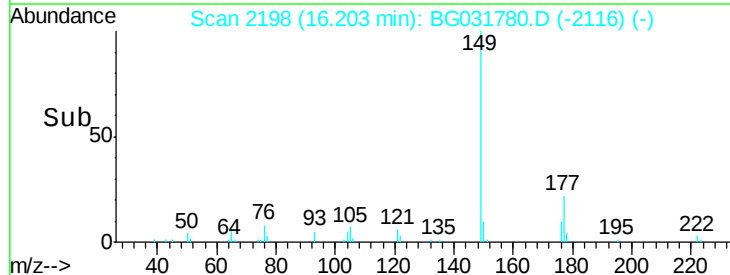
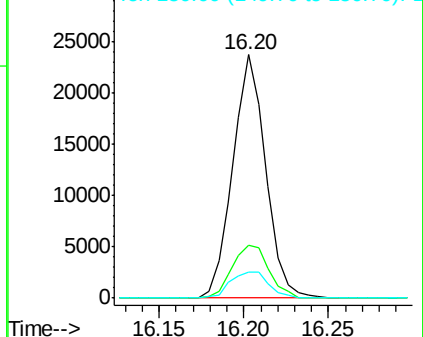
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:149 | Resp: | 31939     |
| Ion Ratio   | Lower | Upper     |
| 149         | 100   |           |
| 177         | 21.6  | 18.5 27.7 |
| 150         | 10.4  | 10.2 15.2 |

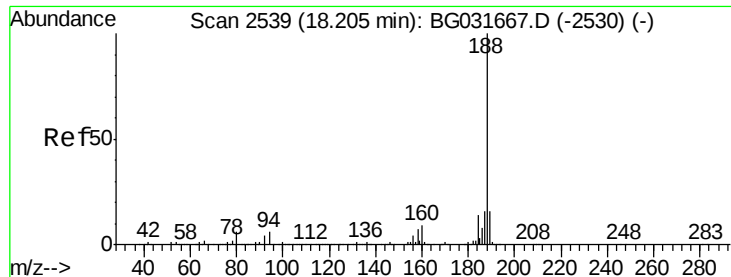


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

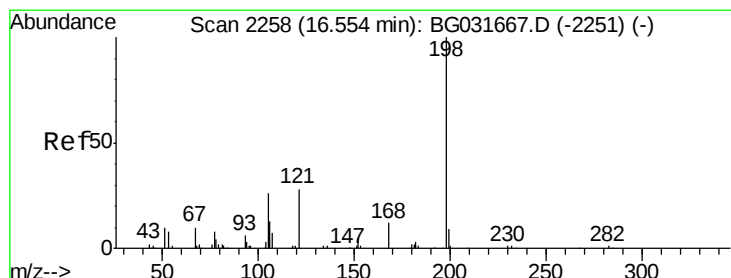
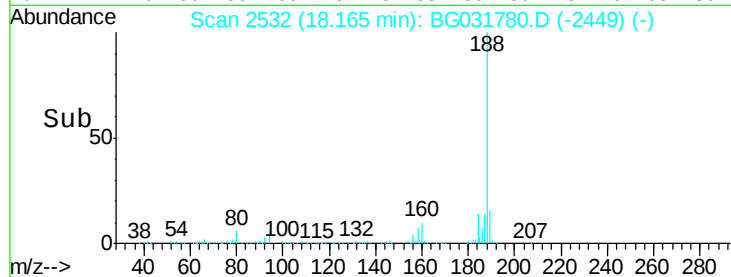
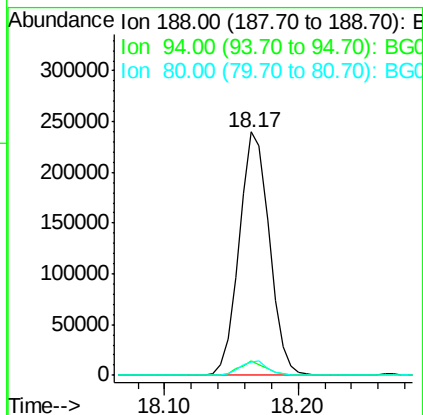
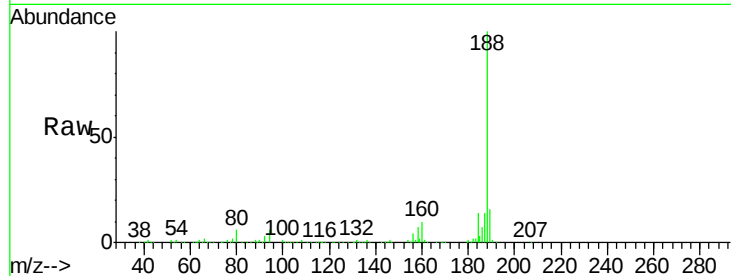




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 18.17 min Scan# 2532  
Delta R.T. -0.04 min  
Lab File: BG031780.D  
Acq: 27 Dec 2017 3:24

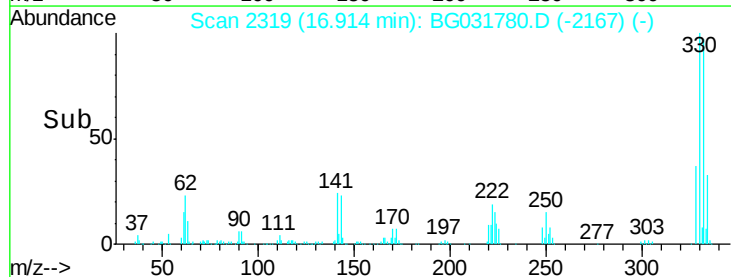
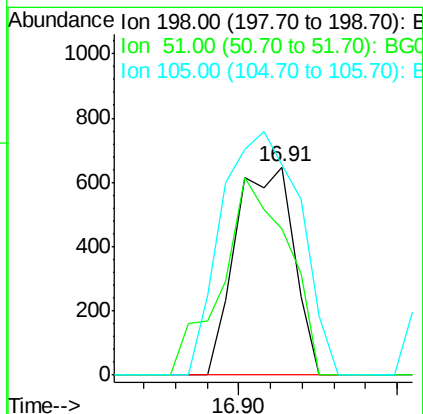
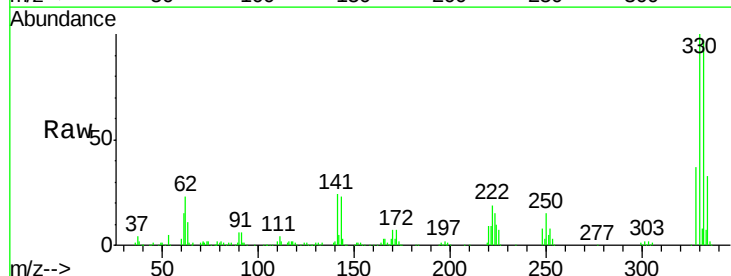
Instrument :  
BNA\_G  
ClientSampleId :  
BU-01-122217

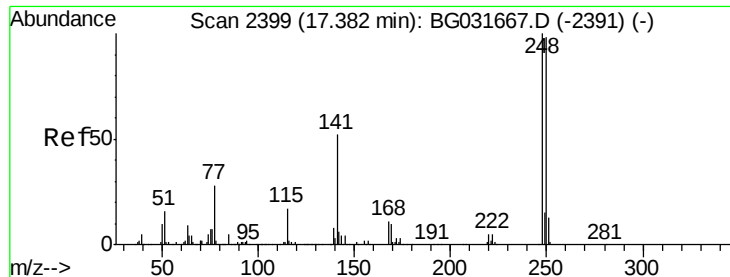
Tot Ion:188 Resp: 374186  
Ion Ratio Lower Upper  
188 100  
94 6.0 6.9 10.3#  
80 5.5 7.7 11.5#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 8.68 ng  
RT: 16.91 min Scan# 2319  
Delta R.T. 0.36 min  
Lab File: BG031780.D  
Acq: 27 Dec 2017 3:24

Tgt Ion:198 Resp: 819  
Ion Ratio Lower Upper  
198 100  
51 70.5 30.6 70.6  
105 101.4 23.8 63.8#

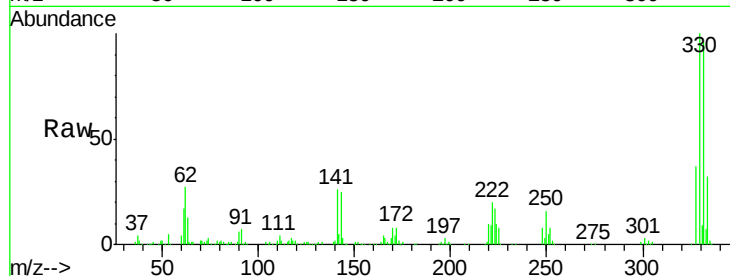




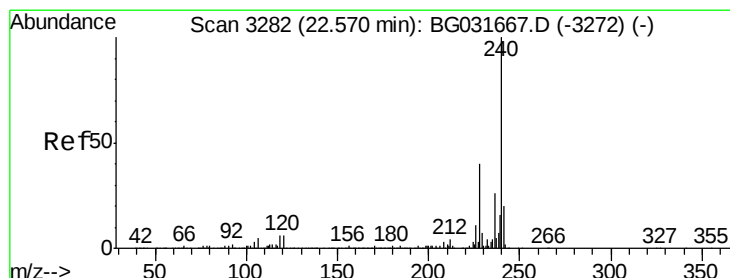
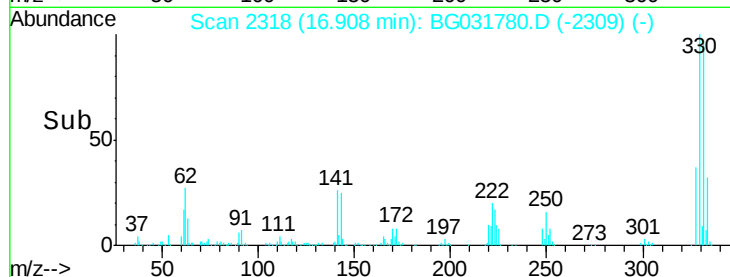
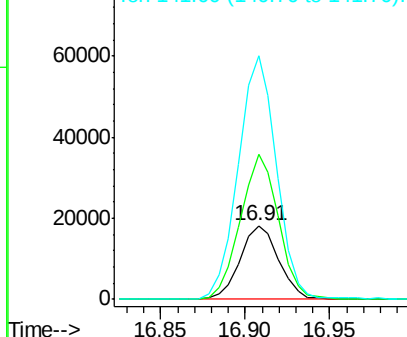
#66  
4-Bromophenyl-phenylether  
Concen: 5.34 ng  
RT: 16.91 min Scan# 2318  
Delta R.T. -0.47 min  
Lab File: BG031780.D  
Acq: 27 Dec 2017 3:24

Instrument :  
BNA\_G  
ClientSampleId :  
BU-01-122217

Tot Ion:248 Resp: 28869  
Ion Ratio Lower Upper  
248 100  
250 196.0 77.1 115.7#  
141 330.2 50.8 76.2#

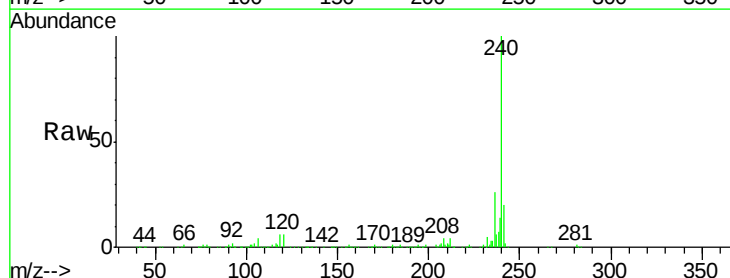


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

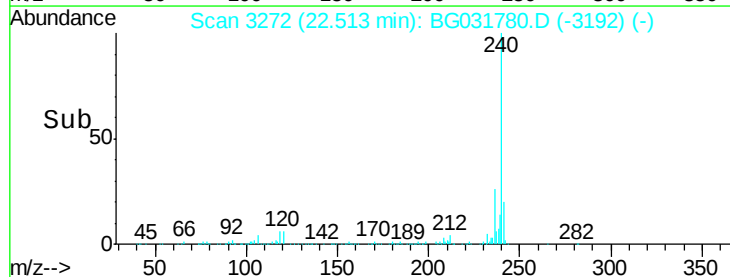
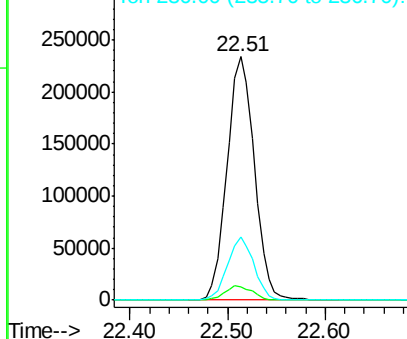


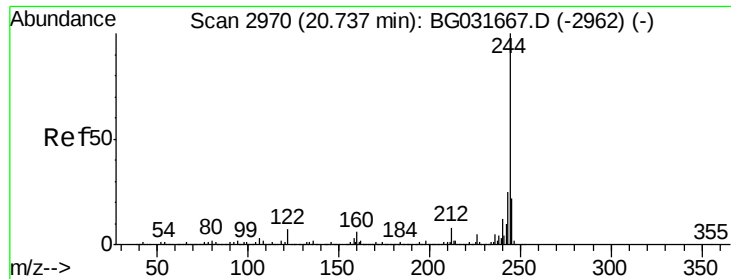
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 22.51 min Scan# 3272  
Delta R.T. -0.06 min  
Lab File: BG031780.D  
Acq: 27 Dec 2017 3:24

Tgt Ion:240 Resp: 454709  
Ion Ratio Lower Upper  
240 100  
120 5.5 6.8 10.2#  
236 26.0 20.9 31.3



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





#78

Terphenyl-d14

Concen: 100.35 ng

RT: 20.70 min Scan# 2964

Delta R.T. -0.03 min

Lab File: BG031780.D

Acq: 27 Dec 2017 3:24

Instrument :

BNA\_G

ClientSampleId :

BU-01-122217

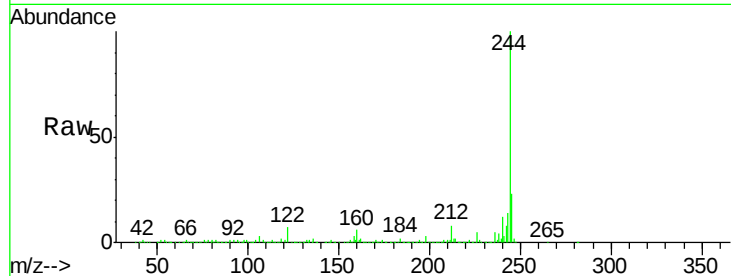
Tot Ion:244 Resp: 1997193

Ion Ratio Lower Upper

244 100

212 7.8 5.8 8.8

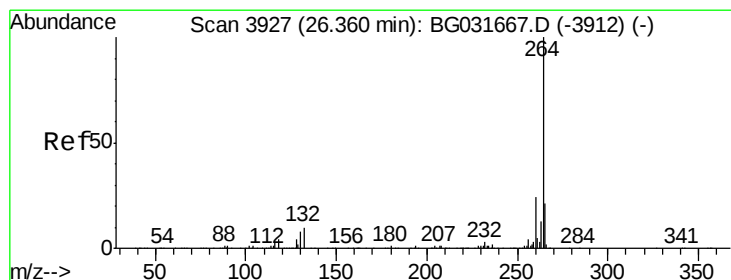
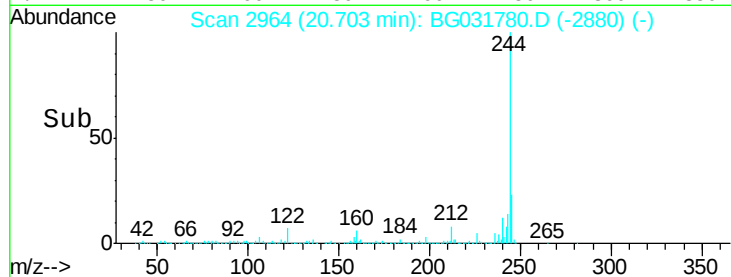
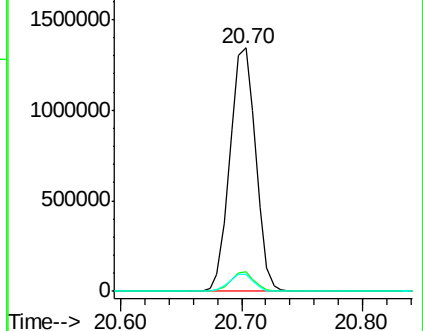
122 6.9 7.0 10.4#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 26.27 min Scan# 3911

Delta R.T. -0.09 min

Lab File: BG031780.D

Acq: 27 Dec 2017 3:24

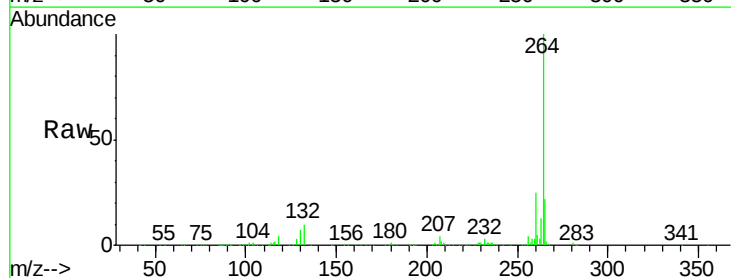
Tgt Ion:264 Resp: 451971

Ion Ratio Lower Upper

264 100

260 24.8 17.4 26.0

265 22.2 17.7 26.5



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

