

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG022119\  
 Data File : BG039580.D  
 Acq On : 21 Feb 2019 20:46  
 Operator : JU/SJ  
 Sample : K1344-08  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 NB-07-022019-B

Quant Time: Feb 21 22:05:05 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG012919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 29 15:41:51 2019  
 Response via : Initial Calibration

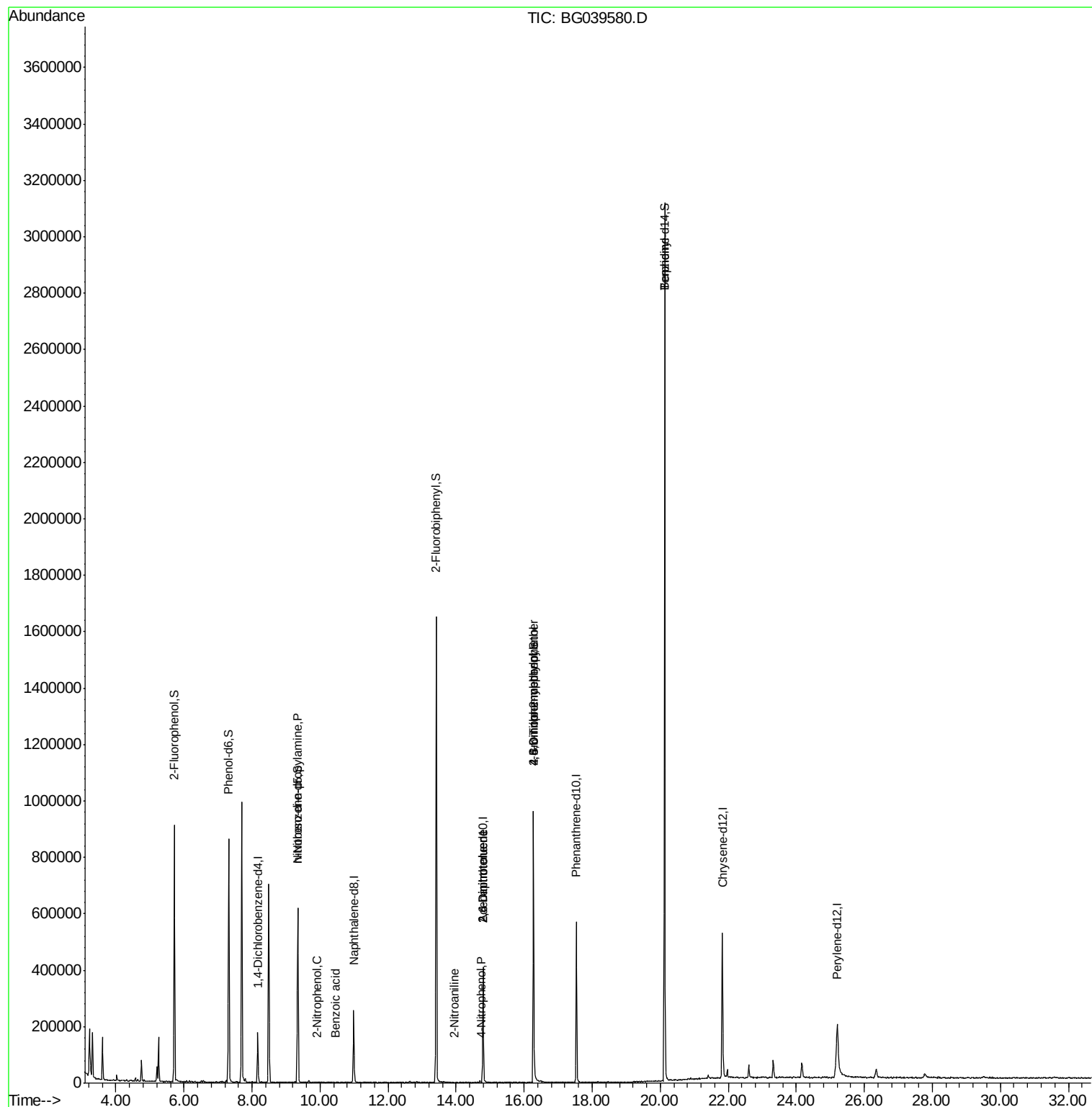
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)   |
|--------------------------------|-------|------|----------|-----------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.17  | 152  | 48461    | 20.00     | ng    | -0.02      |
| 21) Naphthalene-d8             | 10.99 | 136  | 217438   | 20.00     | ng    | -0.02      |
| 39) Acenaphthene-d10           | 14.79 | 164  | 148607   | 20.00     | ng    | -0.02      |
| 64) Phenanthrene-d10           | 17.54 | 188  | 363878   | 20.00     | ng    | -0.02      |
| 76) Chrysene-d12               | 21.83 | 240  | 369840   | 20.00     | ng    | -0.02      |
| 87) Perylene-d12               | 25.21 | 264  | 299619   | 20.00     | ng    | -0.03      |
| System Monitoring Compounds    |       |      |          |           |       |            |
| 5) 2-Fluorophenol              | 5.71  | 112  | 379338   | 133.97    | ng    | 0.00       |
| 7) Phenol-d6                   | 7.32  | 99   | 489314   | 117.40    | ng    | 0.00       |
| 23) Nitrobenzene-d5            | 9.34  | 82   | 376863   | 108.28    | ng    | -0.02      |
| 42) 2,4,6-Tribromophenol       | 16.27 | 330  | 178395   | 111.48    | ng    | -0.02      |
| 45) 2-Fluorobiphenyl           | 13.41 | 172  | 890125   | 85.93     | ng    | -0.02      |
| 79) Terphenyl-d14              | 20.13 | 244  | 1490510  | 85.31     | ng    | -0.02      |
| Target Compounds               |       |      |          |           |       |            |
| 9) Benzaldehyde                | 7.32  | 77   | 1054     | Below Cal |       | Qvalue # 4 |
| 19) n-Nitroso-di-n-propylamine | 9.34  | 70   | 50872    | 17.197    | ng    | # 70       |
| 26) 2-Nitrophenol              | 9.90  | 139  | 56       | 4.050     | ng    | # 31       |
| 32) Benzoic acid               | 10.44 | 122  | 56       | 9.043     | ng    | # 1        |
| 48) 2-Nitroaniline             | 13.94 | 65   | 55       | 8.313     | ng    | # 10       |
| 51) 2,6-Dinitrotoluene         | 14.79 | 165  | 17783    | 13.403    | ng    | # 25       |
| 56) 4-Nitrophenol              | 14.75 | 139  | 54       | 5.817     | ng    | # 1        |
| 57) 2,4-Dinitrotoluene         | 14.79 | 165  | 17783    | 13.005    | ng    | # 20       |
| 65) 4,6-Dinitro-2-methylphenol | 16.27 | 198  | 727      | 4.815     | ng    | # 41       |
| 67) 4-Bromophenyl-phenylether  | 16.27 | 248  | 13297    | 3.294     | ng    | # 1        |
| 77) Benzidine                  | 20.13 | 184  | 26332    | 2.172     | ng    | # 92       |

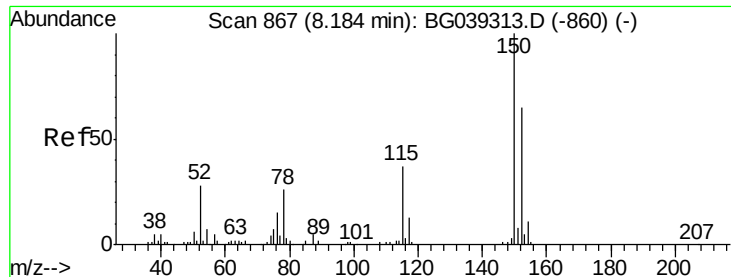
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 10 Sample Multiplier: 1

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Quant Time: Feb 21 22:05:05 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG012919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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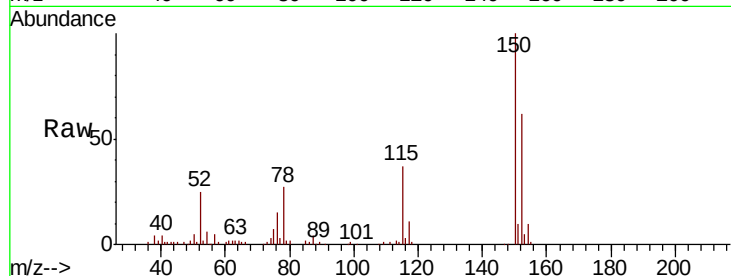


#1

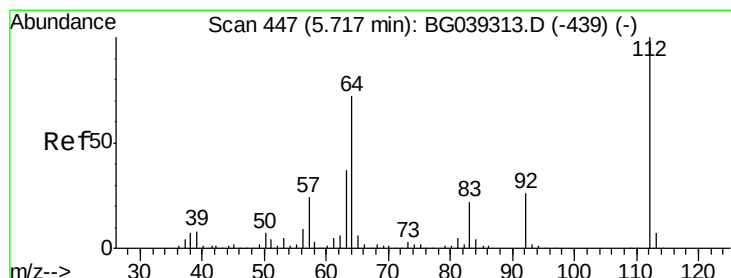
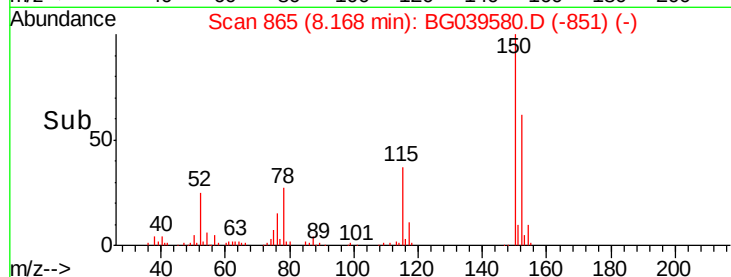
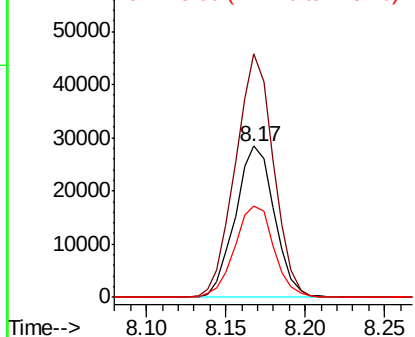
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.17 min Scan# 865  
Delta R.T. -0.02 min  
Lab File: BG039580.D  
Acq: 21 Feb 2019 20:46

Instrument :  
BNA\_G  
ClientSampleId :  
NB-07-022019-B

Tgt Ion:152 Resp: 48461  
Ion Ratio Lower Upper  
152 100  
150 161.0 123.7 185.5  
115 60.0 45.9 68.9



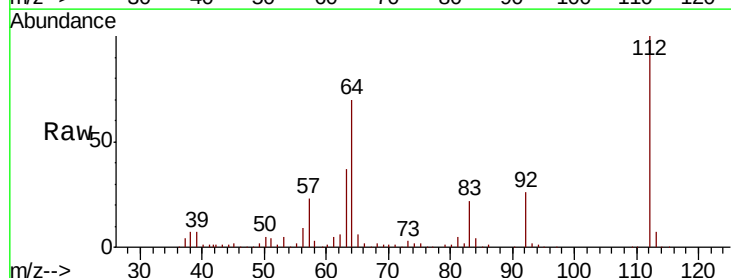
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



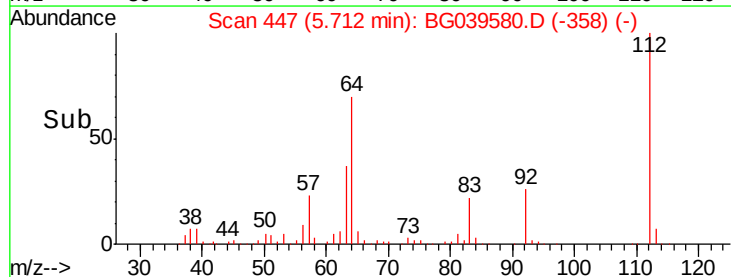
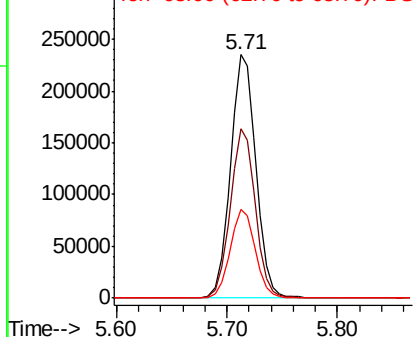
#5

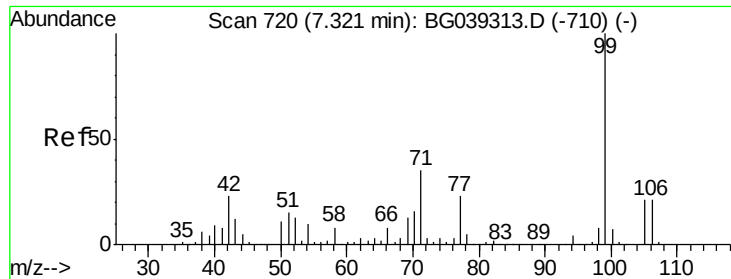
2-Fluorophenol  
Concen: 133.972 ng  
RT: 5.71 min Scan# 447  
Delta R.T. -0.00 min  
Lab File: BG039580.D  
Acq: 21 Feb 2019 20:46

Tgt Ion:112 Resp: 379338  
Ion Ratio Lower Upper  
112 100  
64 69.5 57.8 86.8  
63 36.6 29.8 44.6



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: 117.402 ng

RT: 7.32 min Scan# 720

Delta R.T. -0.00 min

Lab File: BG039580.D

Acq: 21 Feb 2019 20:46

Instrument :

BNA\_G

ClientSampleId :

NB-07-022019-B

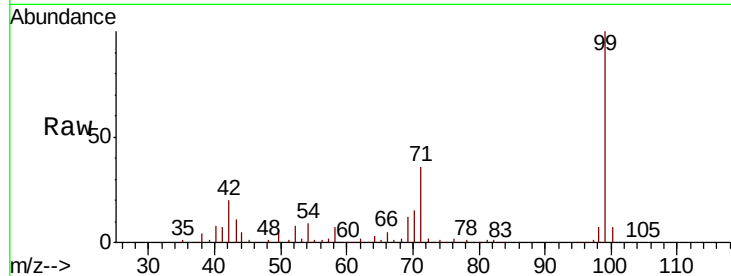
Tgt Ion: 99 Resp: 489314

Ion Ratio Lower Upper

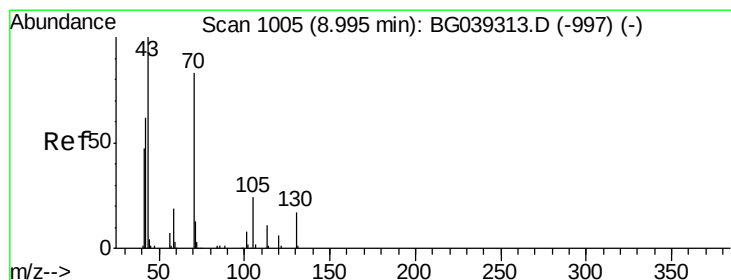
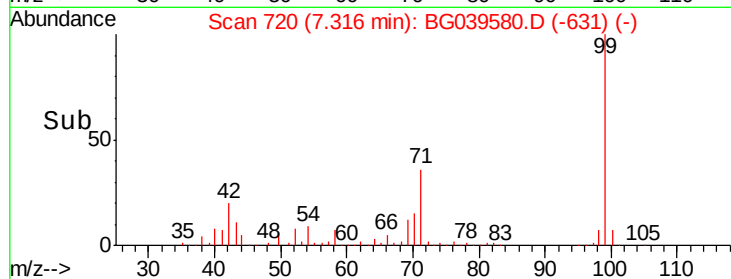
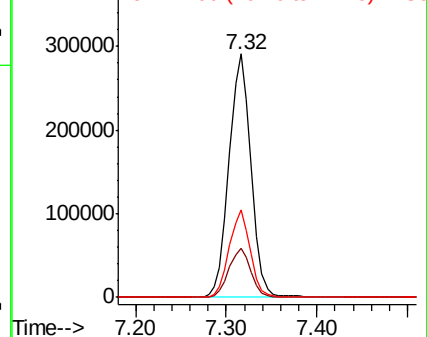
99 100

42 20.1 18.2 27.2

71 36.0 28.0 42.0



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: 17.197 ng

RT: 9.34 min Scan# 1065

Delta R.T. 0.35 min

Lab File: BG039580.D

Acq: 21 Feb 2019 20:46

Tgt Ion: 70 Resp: 50872

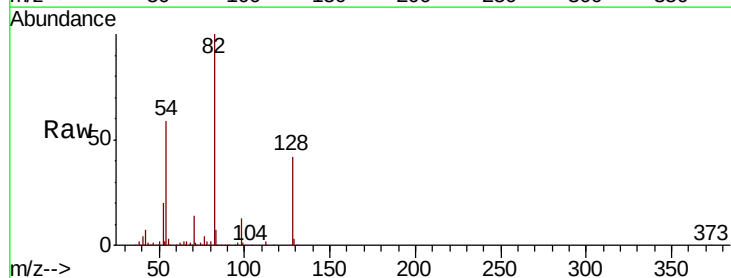
Ion Ratio Lower Upper

70 100

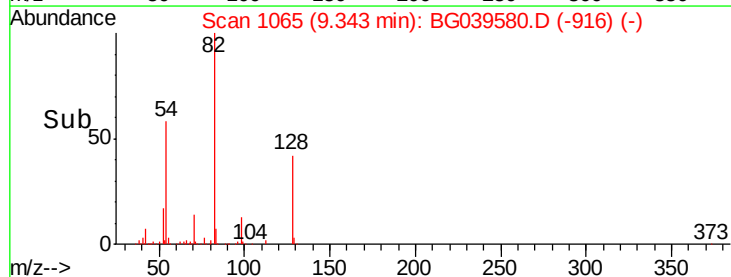
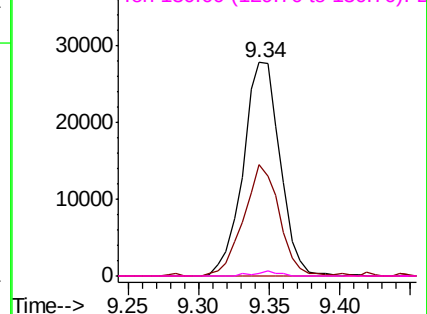
42 52.2 60.4 90.6#

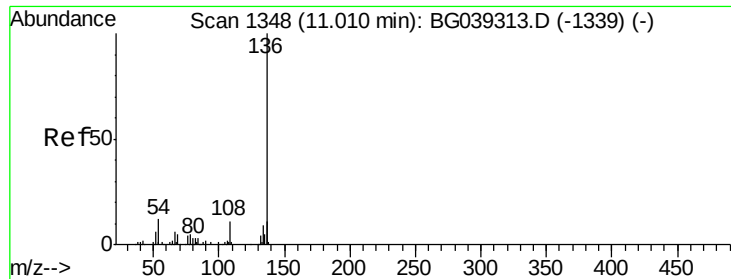
101 0.0 7.5 11.3#

130 1.5 16.9 25.3#



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

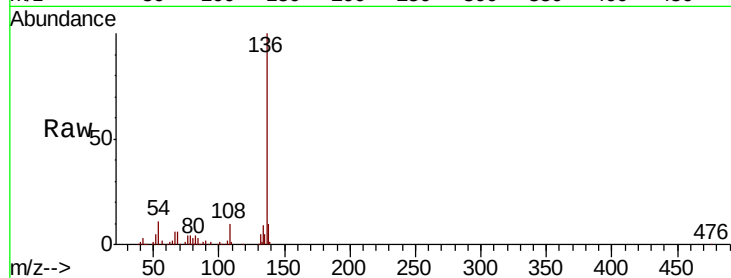




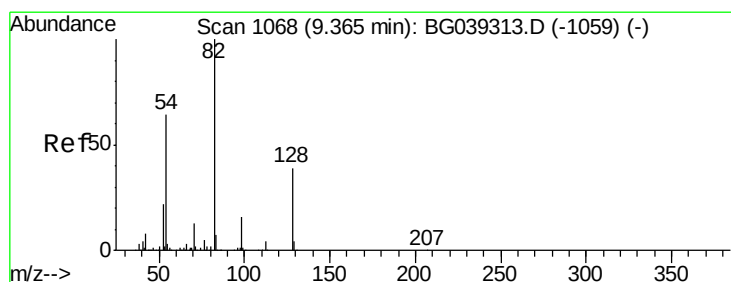
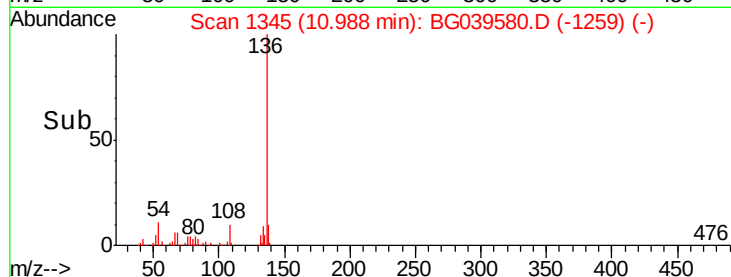
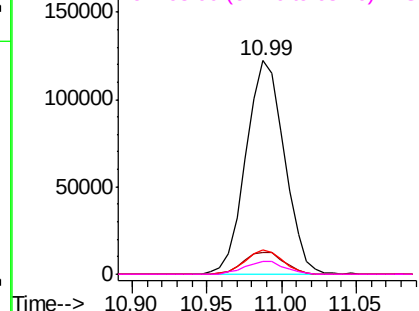
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1345  
Delta R.T. -0.02 min  
Lab File: BG039580.D  
Acq: 21 Feb 2019 20:46

Instrument :  
BNA\_G  
ClientSampleId :  
NB-07-022019-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 217438 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.0  | 9.1   | 13.7   |
| 54       | 11.4  | 9.4   | 14.2   |
| 68       | 6.1   | 4.2   | 6.4    |

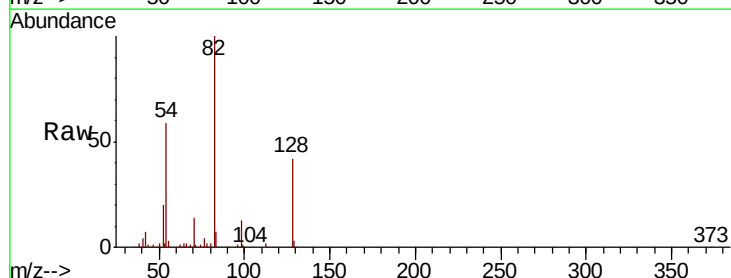


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

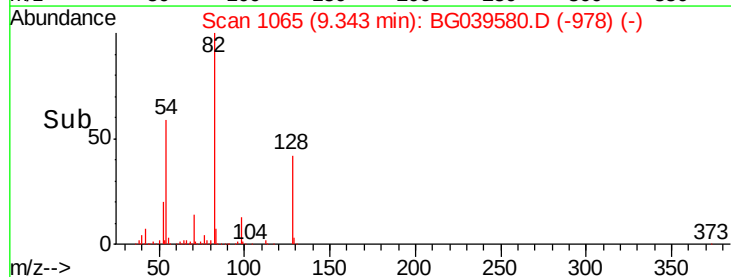
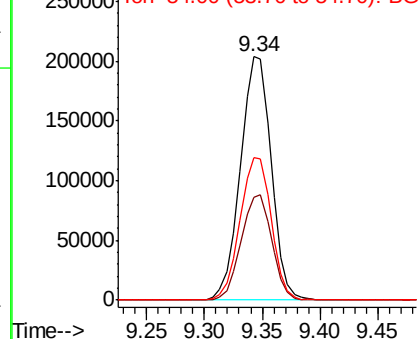


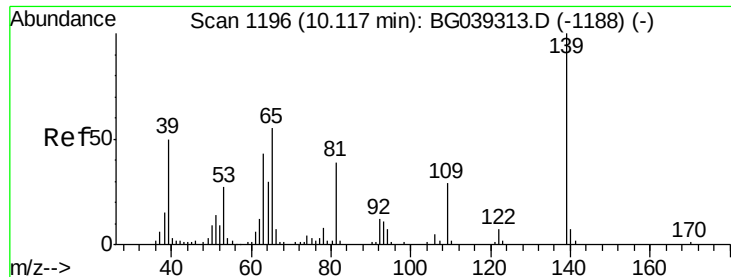
#23  
Nitrobenzene-d5  
Concen: 108.276 ng  
RT: 9.34 min Scan# 1065  
Delta R.T. -0.02 min  
Lab File: BG039580.D  
Acq: 21 Feb 2019 20:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 376863 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.4  | 31.3  | 46.9   |
| 54       | 58.7  | 50.9  | 76.3   |



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

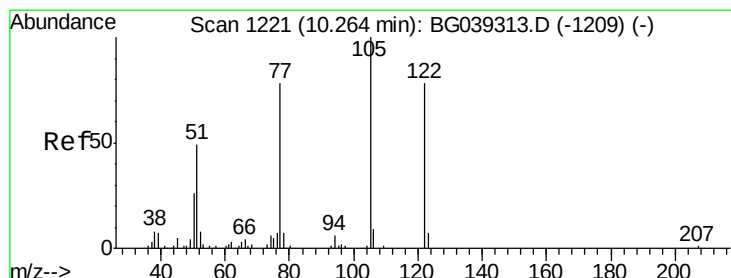
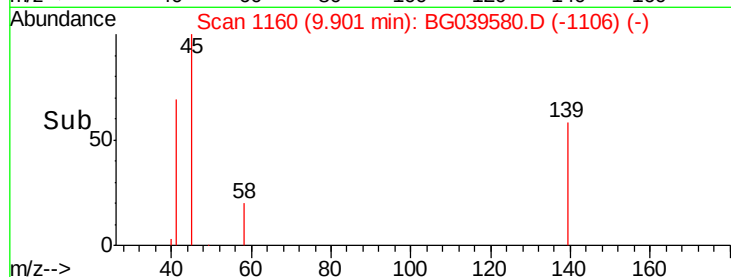
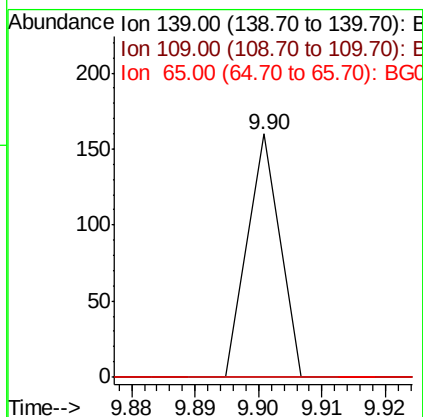
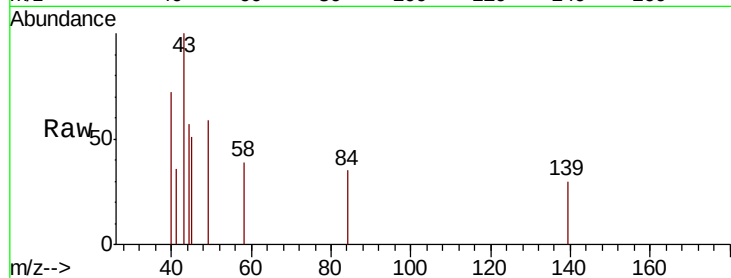




#26  
2-Nitrophenol  
Concen: 4.050 ng  
RT: 9.90 min Scan# 1160  
Delta R.T. -0.22 min  
Lab File: BG039580.D  
Acq: 21 Feb 2019 20:46

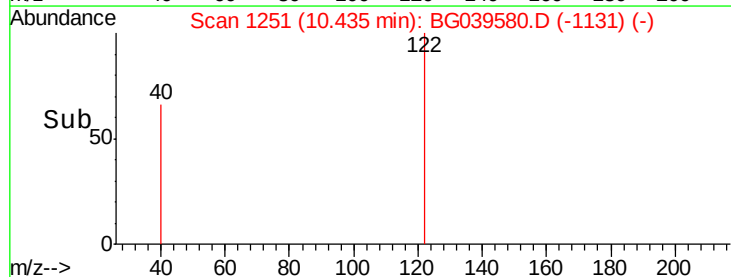
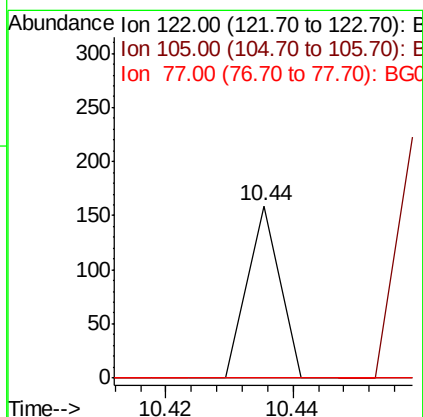
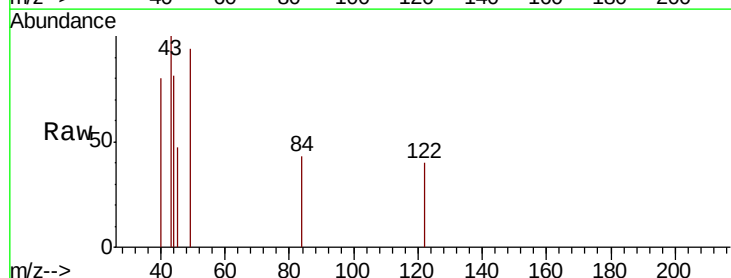
Instrument :  
BNA\_G  
ClientSampleId :  
NB-07-022019-B

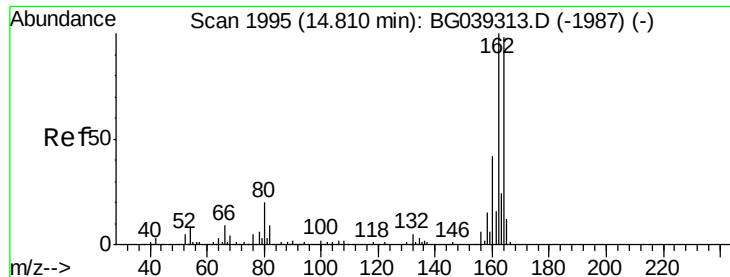
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 0.0   | 23.4  | 35.0# |
| 65      | 0.0   | 44.3  | 66.5# |



#32  
Benzoic acid  
Concen: 9.043 ng  
RT: 10.44 min Scan# 1251  
Delta R.T. 0.17 min  
Lab File: BG039580.D  
Acq: 21 Feb 2019 20:46

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 101.8 | 141.8# |
| 77      | 0.0   | 76.3  | 116.3# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.79 min Scan# 1992

Delta R.T. -0.02 min

Lab File: BG039580.D

Acq: 21 Feb 2019 20:46

Instrument :

BNA\_G

ClientSampleId :

NB-07-022019-B

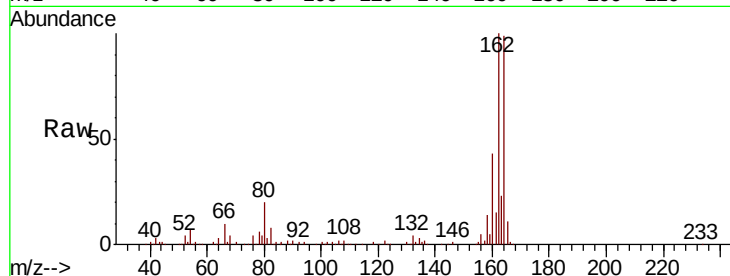
Tgt Ion:164 Resp: 148607

Ion Ratio Lower Upper

164 100

162 101.4 81.6 122.4

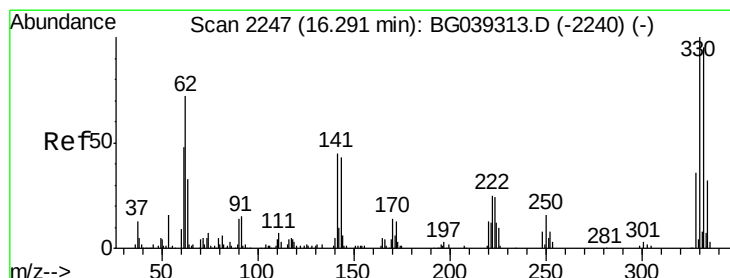
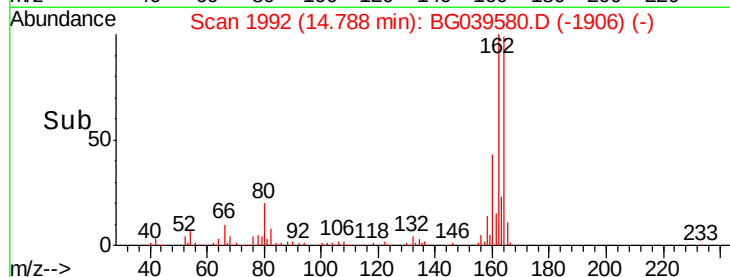
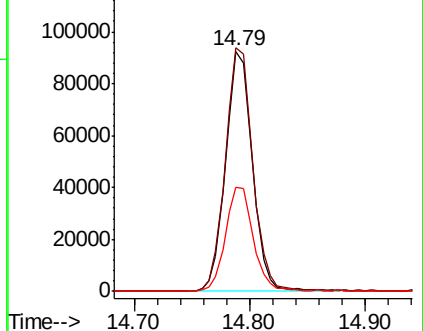
160 43.6 34.2 51.2



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: 111.480 ng

RT: 16.27 min Scan# 2245

Delta R.T. -0.02 min

Lab File: BG039580.D

Acq: 21 Feb 2019 20:46

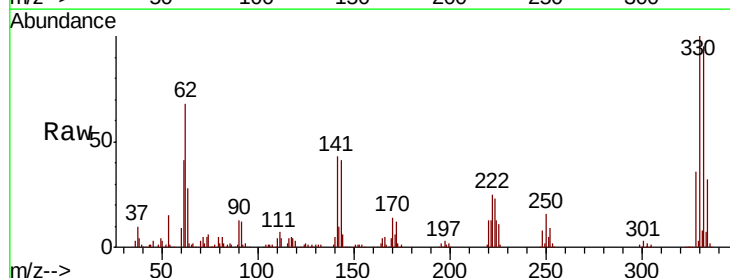
Tgt Ion:330 Resp: 178395

Ion Ratio Lower Upper

330 100

332 95.1 75.7 113.5

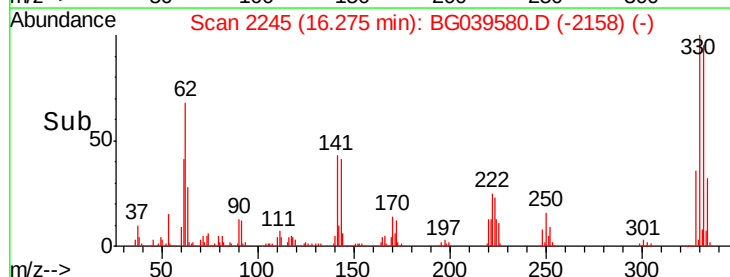
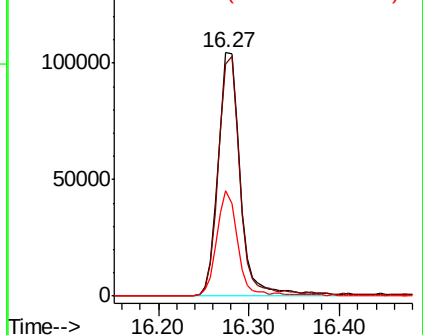
141 40.9 35.6 53.4

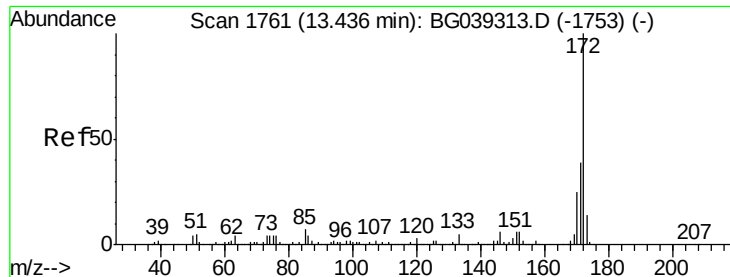


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

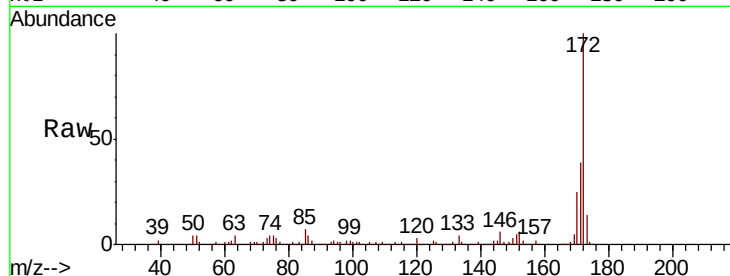




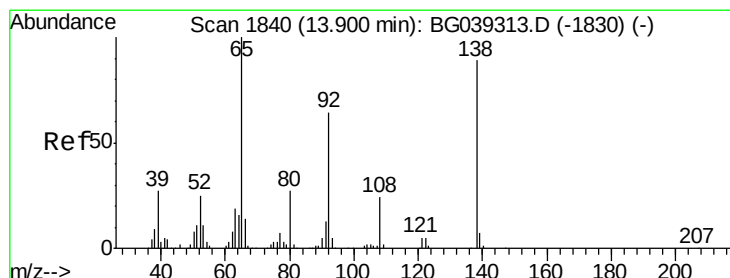
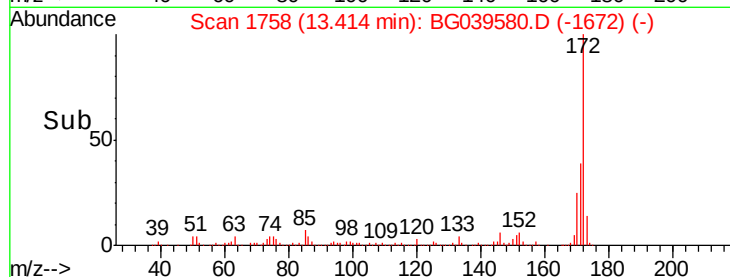
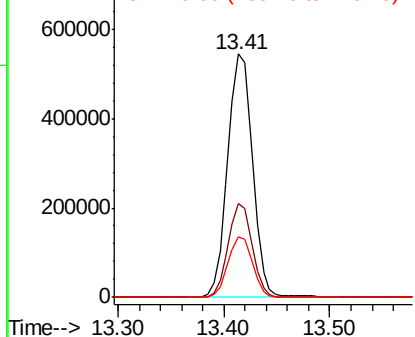
#45  
 2-Fluorobiphenyl  
 Concen: 85.927 ng  
 RT: 13.41 min Scan# 1758  
 Delta R.T. -0.02 min  
 Lab File: BG039580.D  
 Acq: 21 Feb 2019 20:46

Instrument :  
 BNA\_G  
 ClientSampleId :  
 NB-07-022019-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.7  | 30.8  | 46.2  |
| 170     | 24.9  | 20.2  | 30.4  |

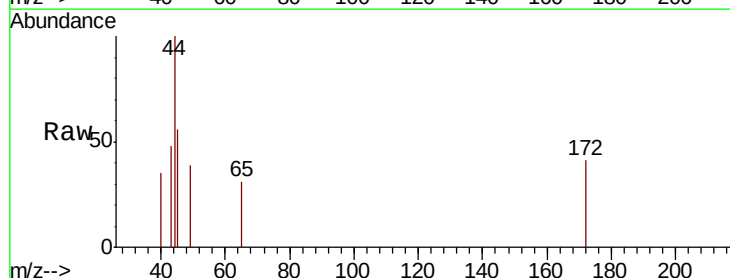


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

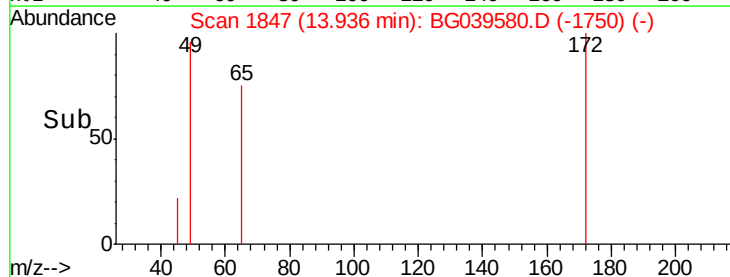
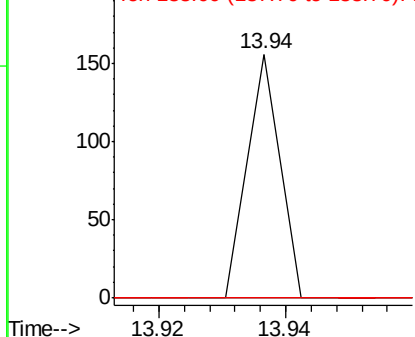


#48  
 2-Nitroaniline  
 Concen: 8.313 ng  
 RT: 13.94 min Scan# 1847  
 Delta R.T. 0.04 min  
 Lab File: BG039580.D  
 Acq: 21 Feb 2019 20:46

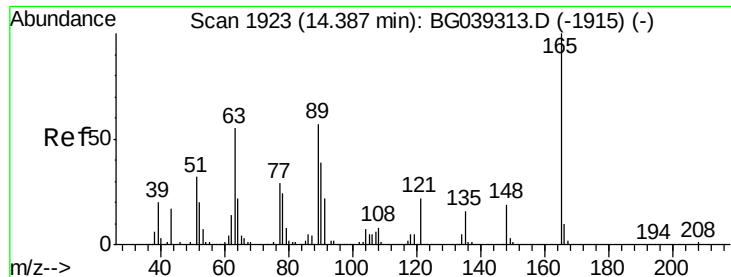
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 0.0   | 51.4  | 77.2#  |
| 138     | 0.0   | 71.4  | 107.2# |



Abundance Ion 65.00 (64.70 to 65.70): BGC  
 Ion 92.00 (91.70 to 92.70): BGC  
 Ion 138.00 (137.70 to 138.70): E



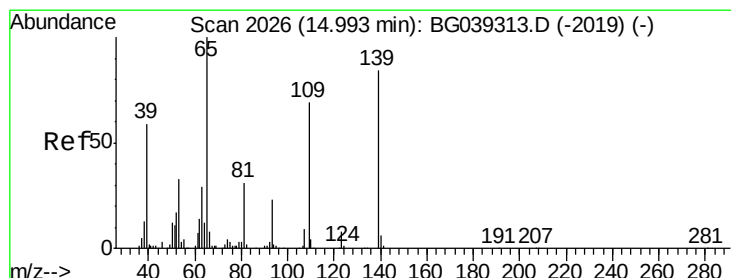
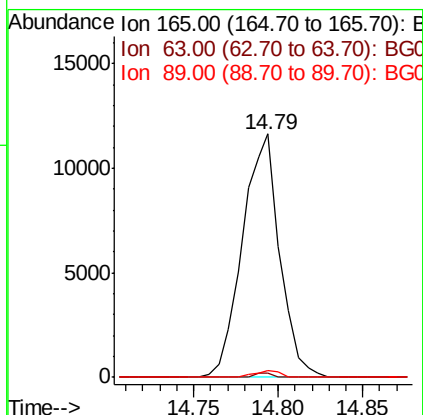
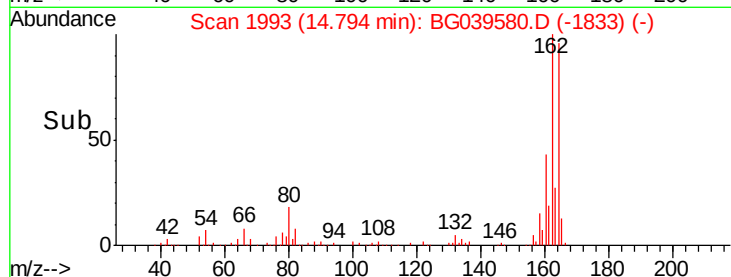
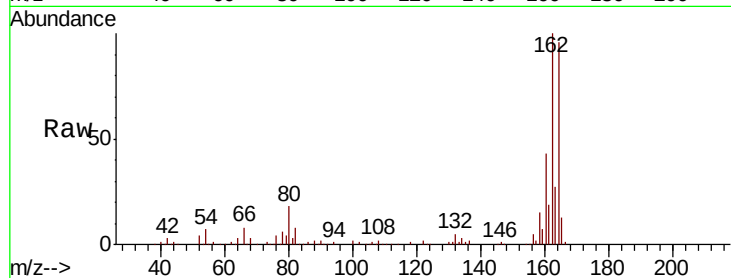




#51  
 2,6-Dinitrotoluene  
 Concen: 13.403 ng  
 RT: 14.79 min Scan# 1993  
 Delta R.T. 0.41 min  
 Lab File: BG039580.D  
 Acq: 21 Feb 2019 20:46

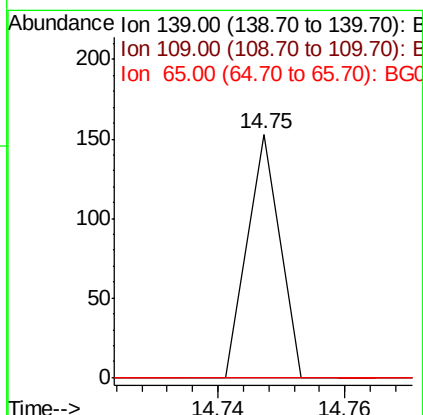
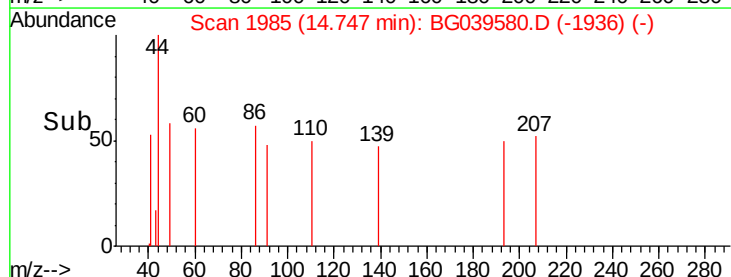
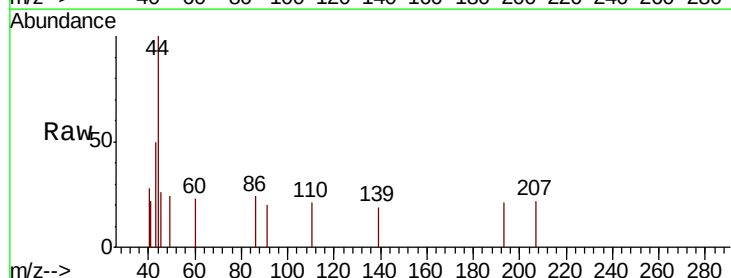
Instrument :  
 BNA\_G  
 ClientSampleId :  
 NB-07-022019-B

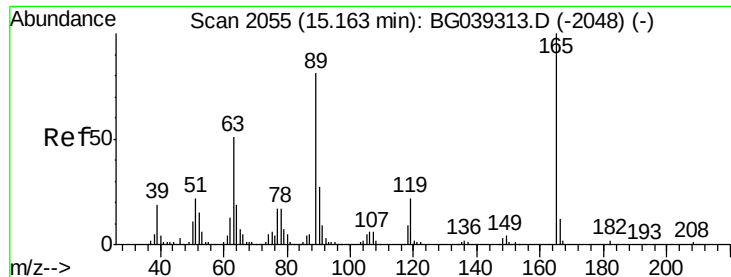
Tgt Ion:165 Resp: 17783  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 47.0 70.6#  
 89 2.9 45.8 68.8#



#56  
 4-Nitrophenol  
 Concen: 5.817 ng  
 RT: 14.75 min Scan# 1985  
 Delta R.T. -0.24 min  
 Lab File: BG039580.D  
 Acq: 21 Feb 2019 20:46

Tgt Ion:139 Resp: 54  
 Ion Ratio Lower Upper  
 139 100  
 109 0.0 61.9 101.9#  
 65 0.0 99.1 139.1#





#57

2,4-Dinitrotoluene

Concen: 13.005 ng

RT: 14.79 min Scan# 1993

Delta R.T. -0.37 min

Lab File: BG039580.D

Acq: 21 Feb 2019 20:46

Instrument :

BNA\_G

ClientSampleId :

NB-07-022019-B

Tgt Ion:165 Resp: 17783

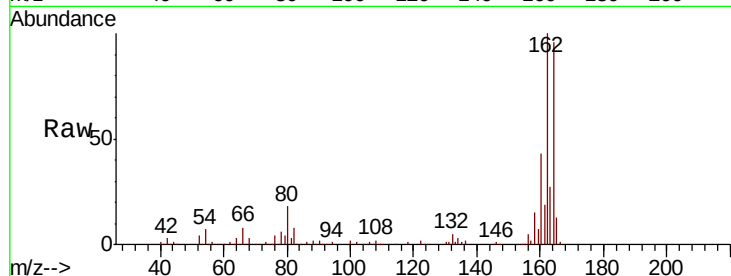
Ion Ratio Lower Upper

165 100

63 1.7 41.0 61.6#

89 2.9 64.6 96.8#

182 0.0 2.0 3.0#

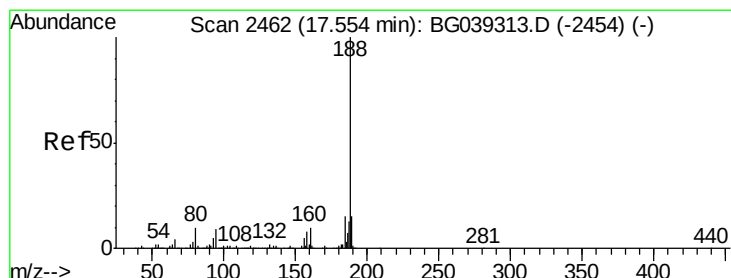
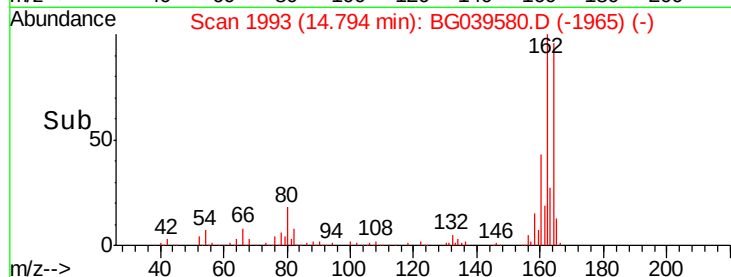
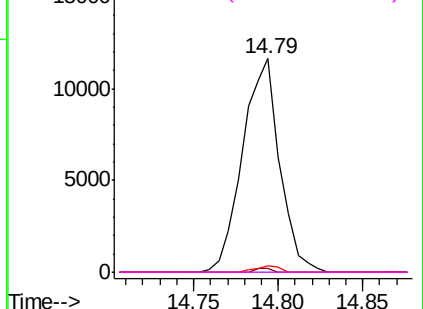


Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.54 min Scan# 2460

Delta R.T. -0.02 min

Lab File: BG039580.D

Acq: 21 Feb 2019 20:46

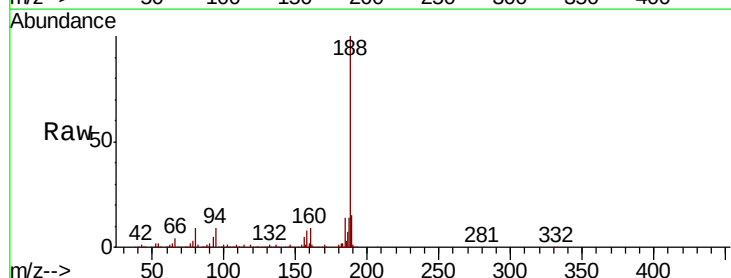
Tgt Ion:188 Resp: 363878

Ion Ratio Lower Upper

188 100

94 8.8 6.9 10.3

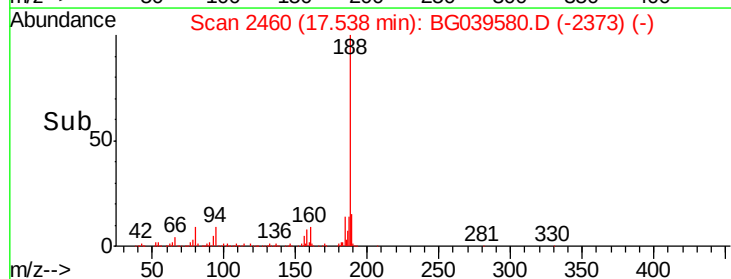
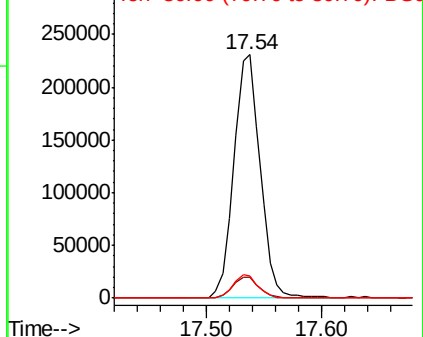
80 9.0 8.1 12.1

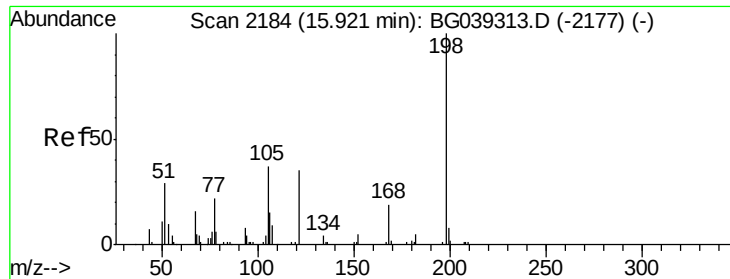


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

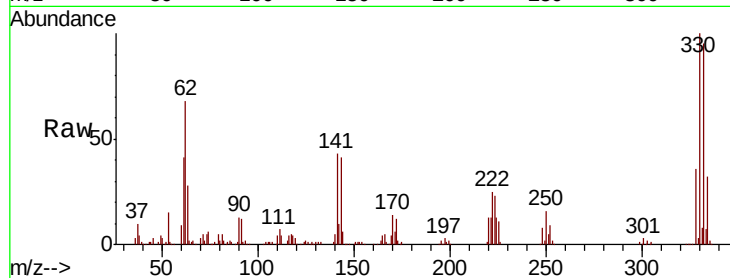




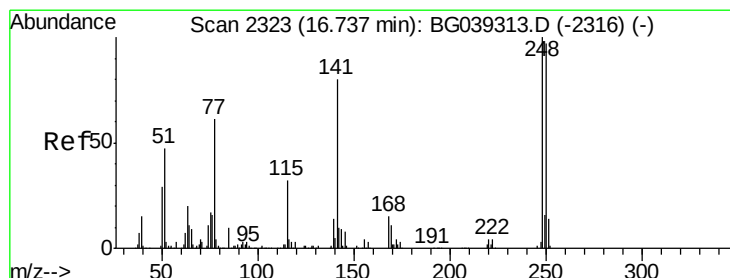
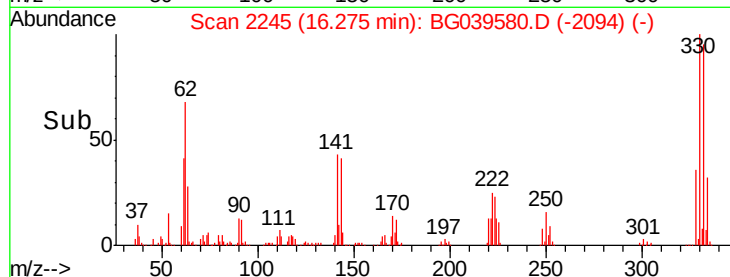
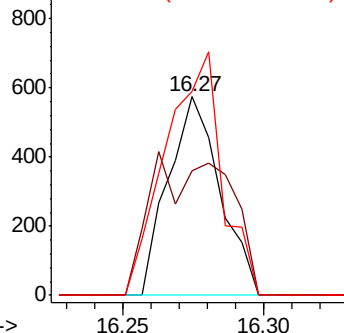
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.815 ng  
 RT: 16.27 min Scan# 2245  
 Delta R.T. 0.35 min  
 Lab File: BG039580.D  
 Acq: 21 Feb 2019 20:46

Instrument :  
 BNA\_G  
 ClientSampleId :  
 NB-07-022019-B

Tgt Ion:198 Resp: 727  
 Ion Ratio Lower Upper  
 198 100  
 51 62.5 27.4 67.4  
 105 103.0 19.7 59.7#

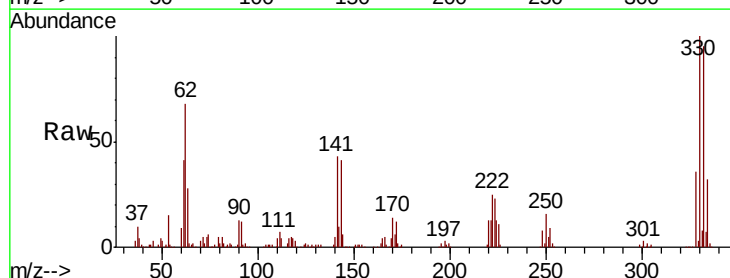


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG0  
 Ion 105.00 (104.70 to 105.70): E

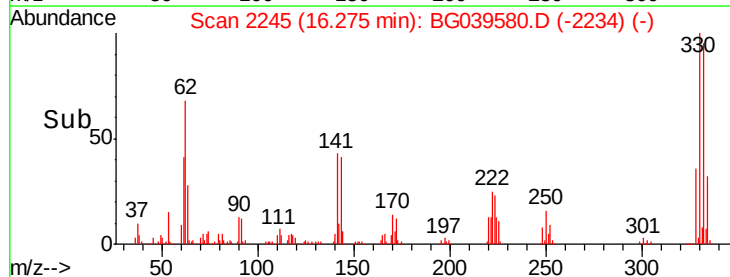
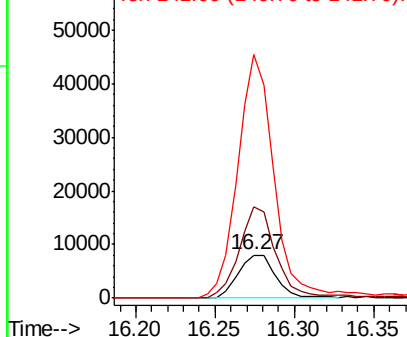


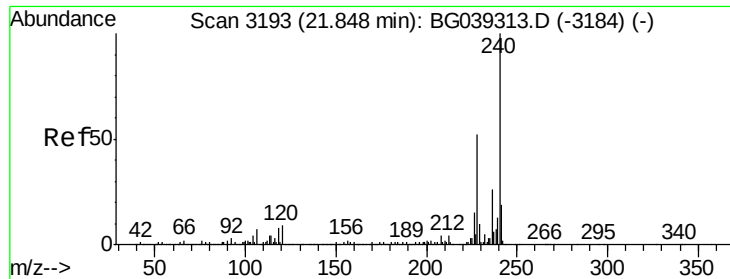
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.294 ng  
 RT: 16.27 min Scan# 2245  
 Delta R.T. -0.46 min  
 Lab File: BG039580.D  
 Acq: 21 Feb 2019 20:46

Tgt Ion:248 Resp: 13297  
 Ion Ratio Lower Upper  
 248 100  
 250 211.1 77.6 116.4#  
 141 564.7 63.9 95.9#



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

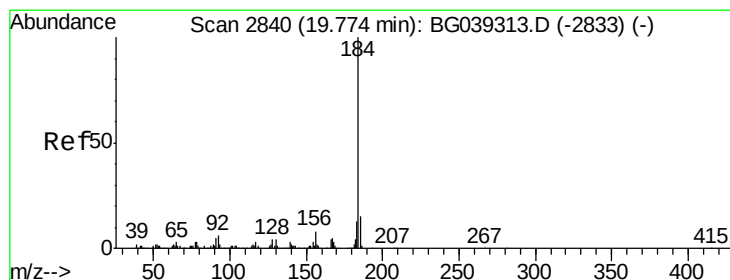
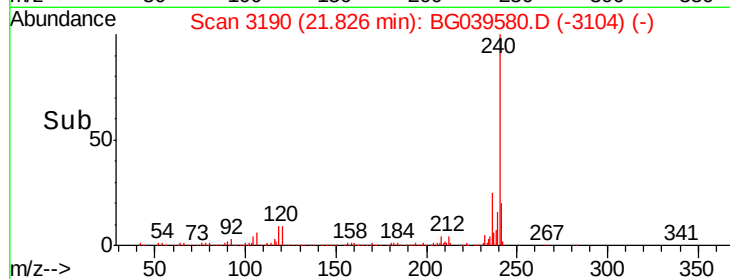
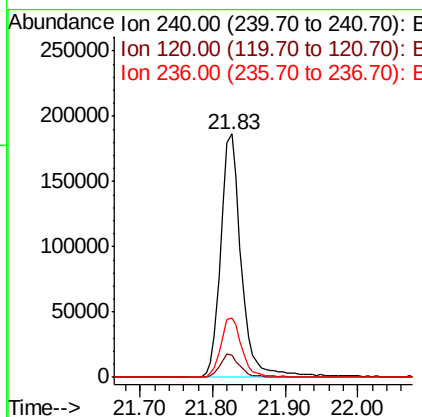
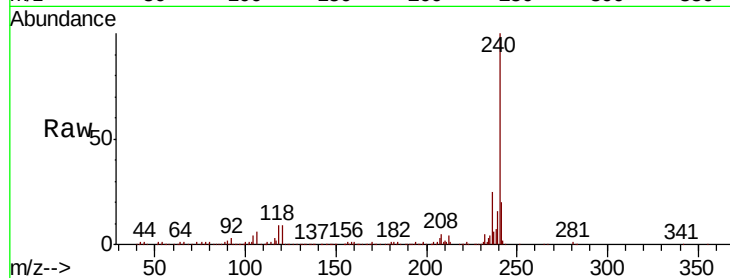




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.83 min Scan# 3190  
Delta R.T. -0.02 min  
Lab File: BG039580.D  
Acq: 21 Feb 2019 20:46

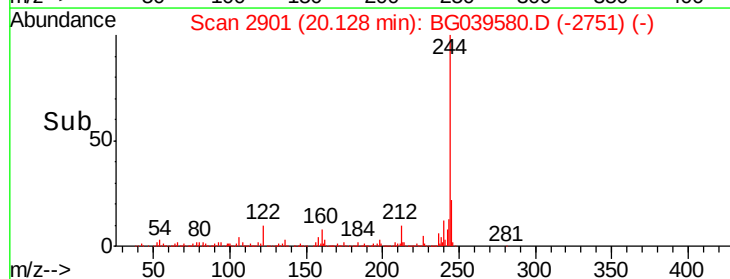
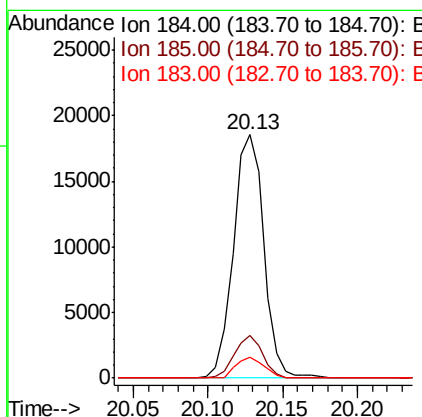
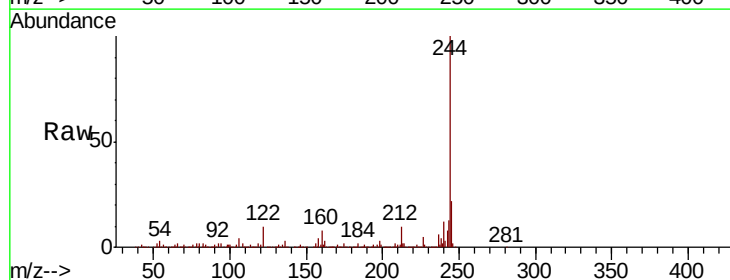
Instrument :  
BNA\_G  
ClientSampleId :  
NB-07-022019-B

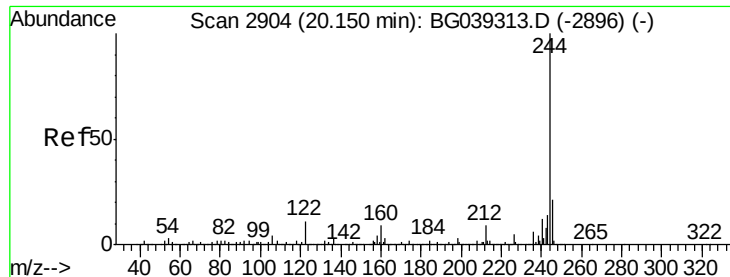
Tgt Ion:240 Resp: 369840  
Ion Ratio Lower Upper  
240 100  
120 9.1 7.0 10.6  
236 24.6 21.0 31.4



#77  
Benzidine  
Concen: 2.172 ng  
RT: 20.13 min Scan# 2901  
Delta R.T. 0.35 min  
Lab File: BG039580.D  
Acq: 21 Feb 2019 20:46

Tgt Ion:184 Resp: 26332  
Ion Ratio Lower Upper  
184 100  
185 17.3 12.2 18.2  
183 8.6 10.6 15.8#





#79

Terphenyl-d14

Concen: 85.306 ng

RT: 20.13 min Scan# 2901

Delta R.T. -0.02 min

Lab File: BG039580.D

Acq: 21 Feb 2019 20:46

Instrument :

BNA\_G

ClientSampleId :

NB-07-022019-B

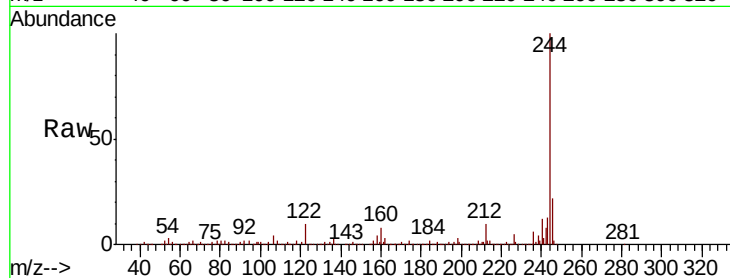
Tgt Ion:244 Resp: 1490510

Ion Ratio Lower Upper

244 100

212 9.5 7.3 10.9

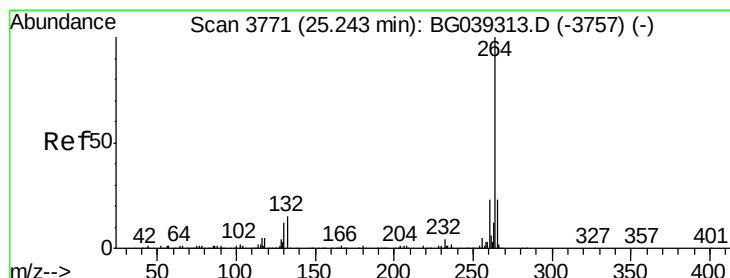
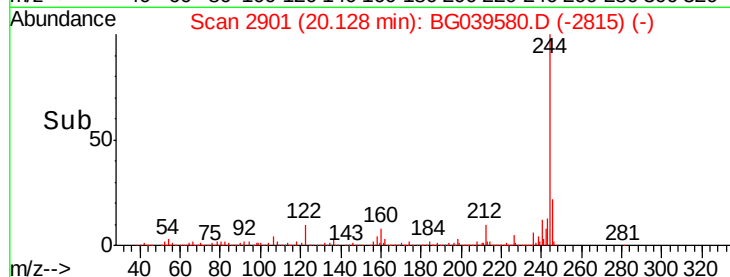
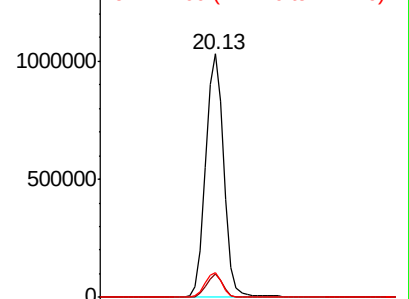
122 10.0 8.4 12.6



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: 25.21 min Scan# 3766

Delta R.T. -0.03 min

Lab File: BG039580.D

Acq: 21 Feb 2019 20:46

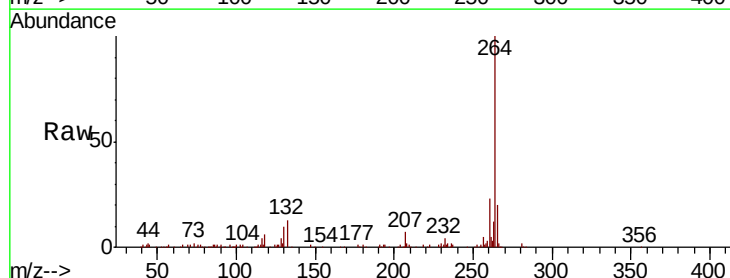
Tgt Ion:264 Resp: 299619

Ion Ratio Lower Upper

264 100

260 22.7 18.2 27.4

265 20.3 18.5 27.7



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

