

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG020719\  
 Data File : BG039389.D  
 Acq On : 7 Feb 2019 19:38  
 Operator : JU/SJ  
 Sample : K1392-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-9

Quant Time: Feb 08 09:14:02 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 | 8.18  | 152  | 56176    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.00 | 136  | 239782   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 14.80 | 164  | 159453   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.54 | 188  | 379634   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.83 | 240  | 389889   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.22 | 264  | 399617   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.71  | 112  | 206612   | 62.95  | ng    | 0.00     |
| 7) Phenol-d6                | 7.31  | 99   | 183792   | 38.04  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.35  | 82   | 439838   | 114.59 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.29 | 330  | 262211   | 152.71 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.43 | 172  | 1051634  | 94.61  | ng    | -0.01    |
| 79) Terphenyl-d14           | 20.13 | 244  | 1605701  | 87.17  | ng    | -0.02    |

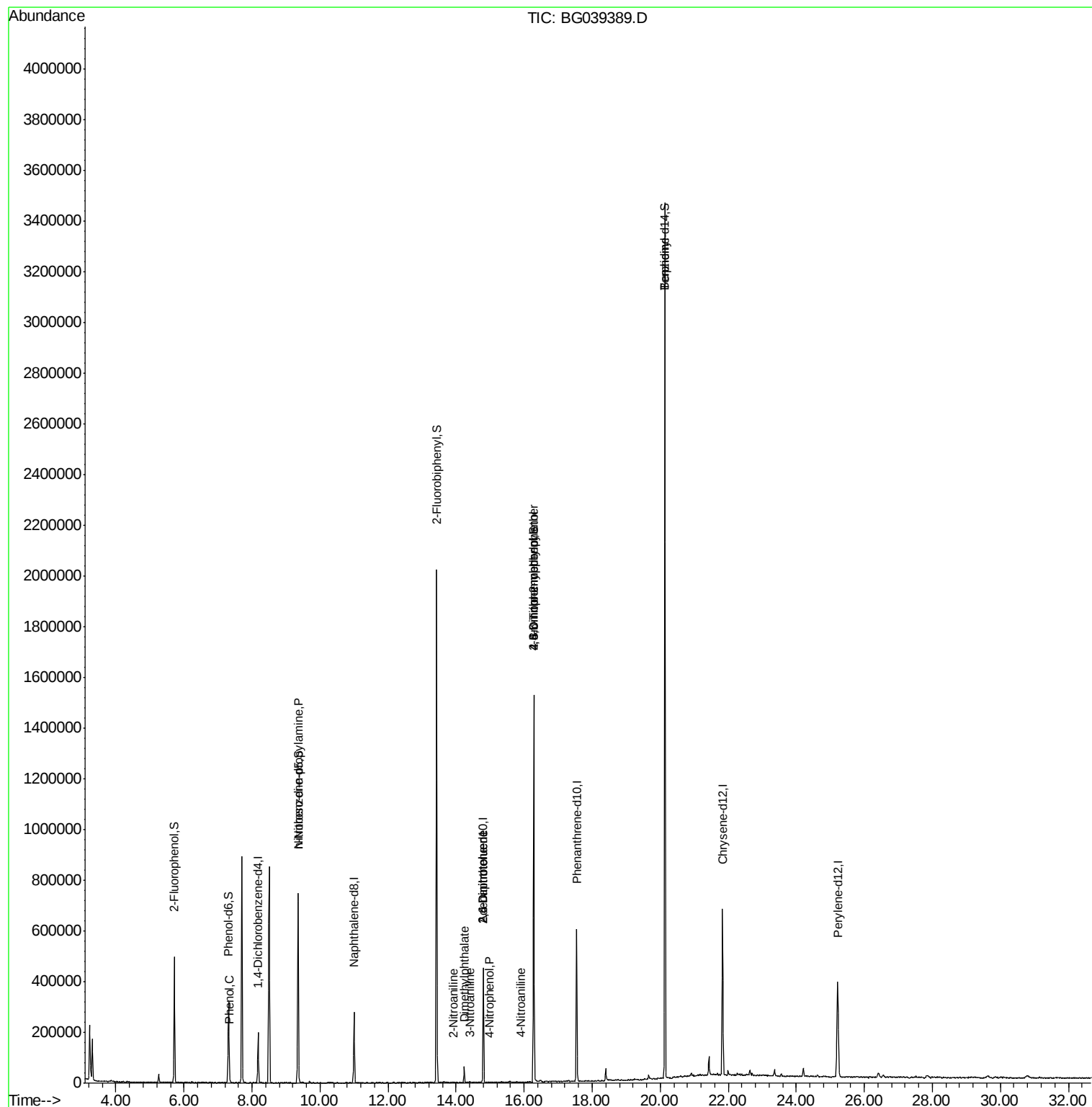
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.32  | 77   | 390      | Below Cal | #     | 29     |
| 10) Phenol                     | 7.34  | 94   | 13613    | 2.70      | ng    | 89     |
| 19) n-Nitroso-di-n-propylamine | 9.35  | 70   | 59856    | 17.46     | ng    | 65     |
| 48) 2-Nitroaniline             | 13.92 | 65   | 78       | 8.32      | ng    | 10     |
| 50) Dimethylphthalate          | 14.24 | 163  | 39765    | 3.09      | ng    | 98     |
| 51) 2,6-Dinitrotoluene         | 14.80 | 165  | 20718    | 13.99     | ng    | 24     |
| 53) 3-Nitroaniline             | 14.41 | 138  | 53       | 5.81      | ng    | 1      |
| 56) 4-Nitrophenol              | 14.98 | 139  | 57       | 5.82      | ng    | 61     |
| 57) 2,4-Dinitrotoluene         | 14.80 | 165  | 20718    | 13.45     | ng    | 19     |
| 62) 4-Nitroaniline             | 15.88 | 138  | 80       | 4.23      | ng    | 10     |
| 65) 4,6-Dinitro-2-methylphenol | 16.29 | 198  | 801      | 4.85      | ng    | 1      |
| 67) 4-Bromophenyl-phenylether  | 16.28 | 248  | 20036    | 4.76      | ng    | 1      |
| 77) Benzidine                  | 20.14 | 184  | 29375    | 2.30      | ng    | 94     |

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

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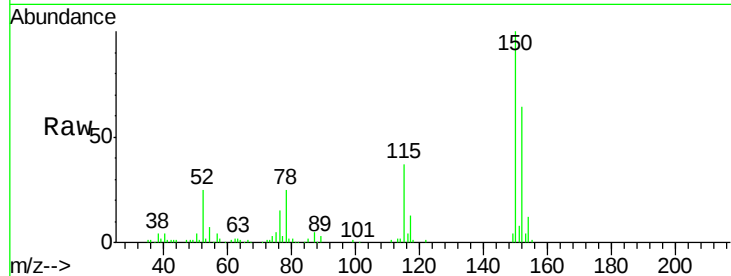


#1

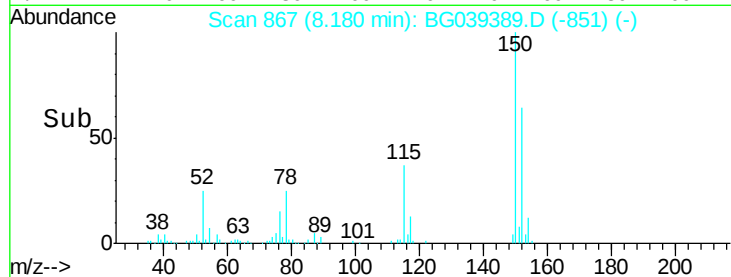
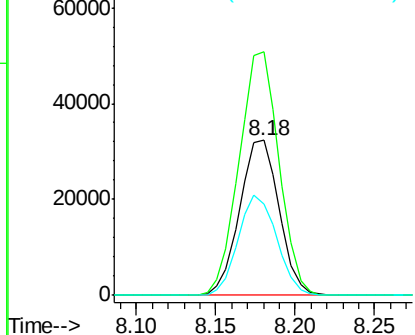
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.18 min Scan# 867  
Delta R.T. -0.00 min  
Lab File: BG039389.D  
Acq: 7 Feb 2019 19:38

Instrument :  
BNA\_G  
ClientSampleId :  
MW-9

Tot Ion:152 Resp: 56176  
Ion Ratio Lower Upper  
152 100  
150 157.1 123.7 185.5  
115 58.7 45.9 68.9



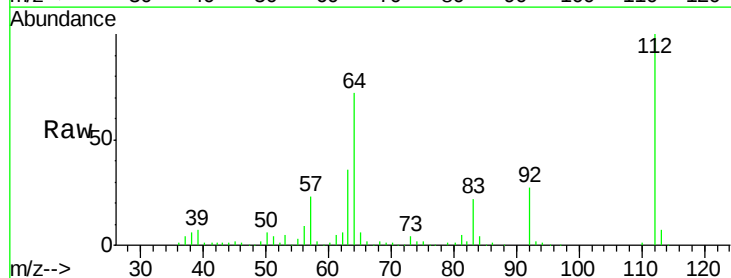
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



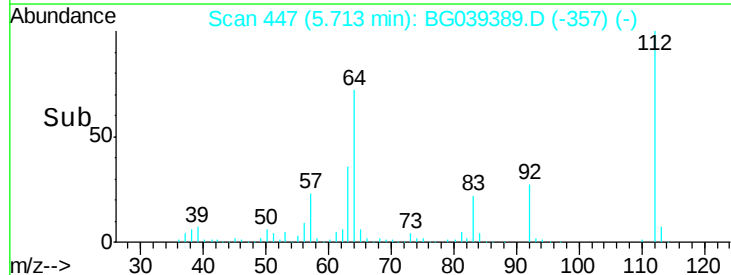
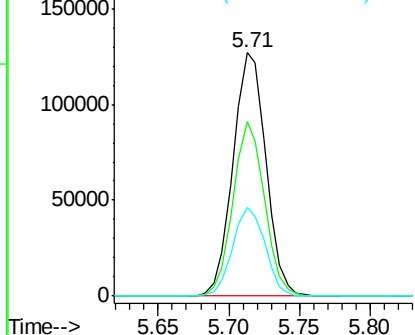
#5

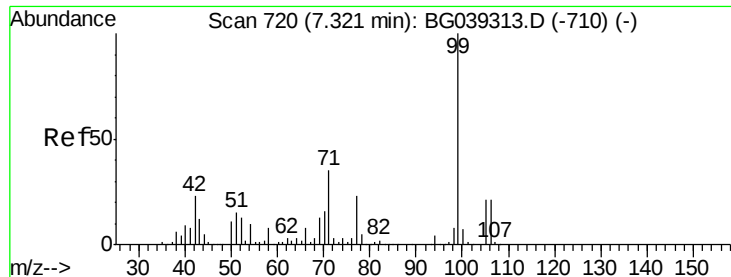
2-Fluorophenol  
Concen: 62.95 ng  
RT: 5.71 min Scan# 447  
Delta R.T. -0.00 min  
Lab File: BG039389.D  
Acq: 7 Feb 2019 19:38

Tgt Ion:112 Resp: 206612  
Ion Ratio Lower Upper  
112 100  
64 71.8 57.8 86.8  
63 36.3 29.8 44.6



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: 38.04 ng

RT: 7.31 min Scan# 719

Delta R.T. -0.01 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

Instrument :

BNA\_G

ClientSampled :

MW-9

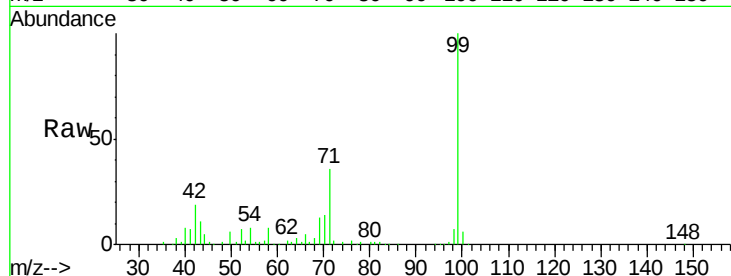
Tot Ion: 99 Resp: 183792

Ion Ratio Lower Upper

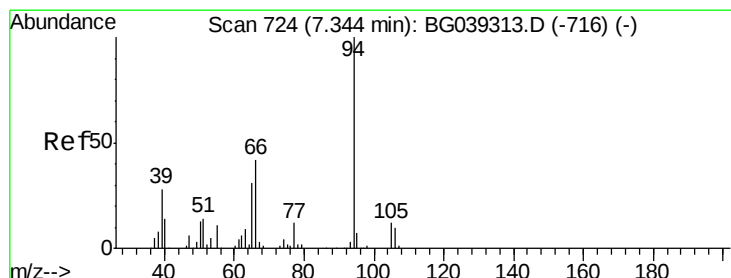
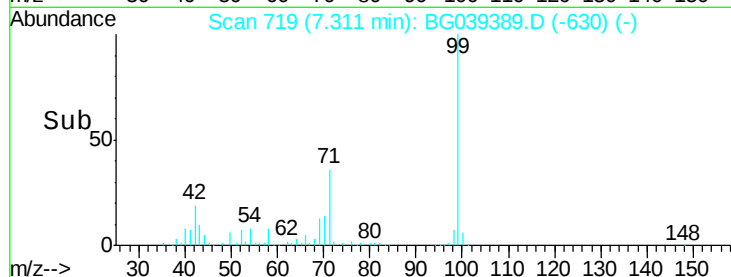
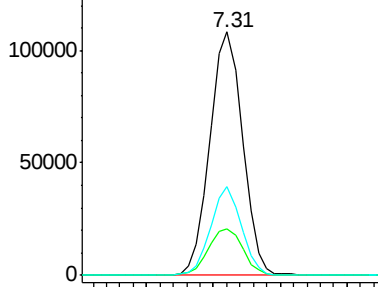
99 100

42 19.2 18.2 27.2

71 36.5 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



#10

Phenol

Concen: 2.70 ng

RT: 7.34 min Scan# 724

Delta R.T. -0.00 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

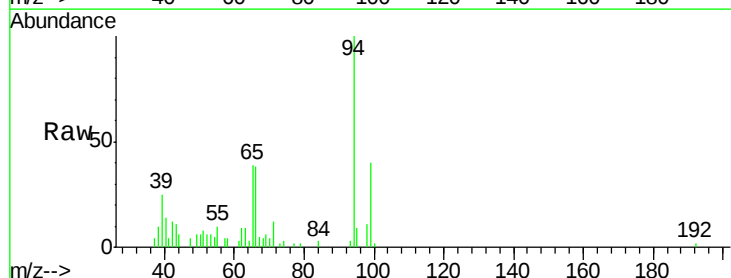
Tgt Ion: 94 Resp: 13613

Ion Ratio Lower Upper

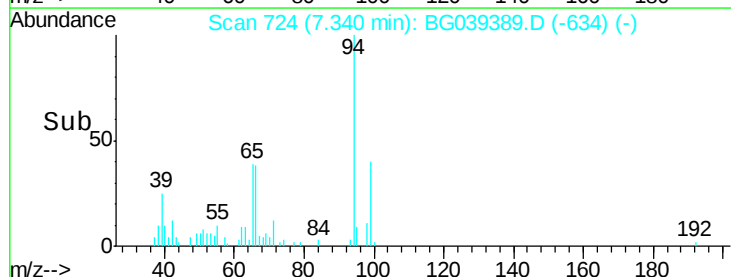
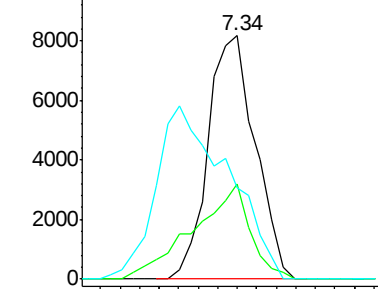
94 100

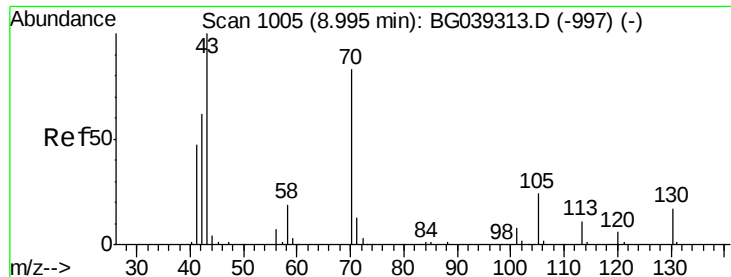
65 39.2 11.7 51.7

66 37.6 23.7 63.7



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

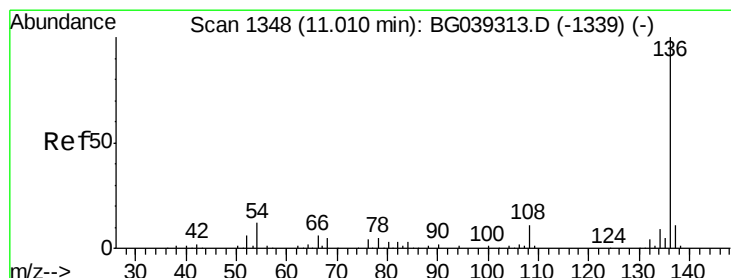
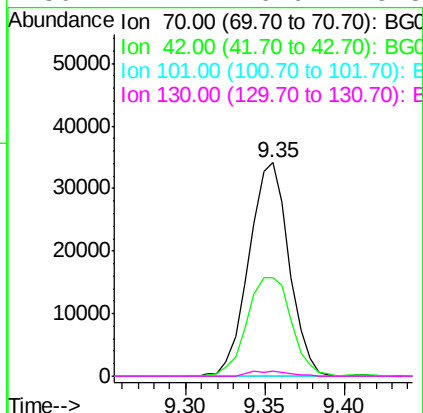
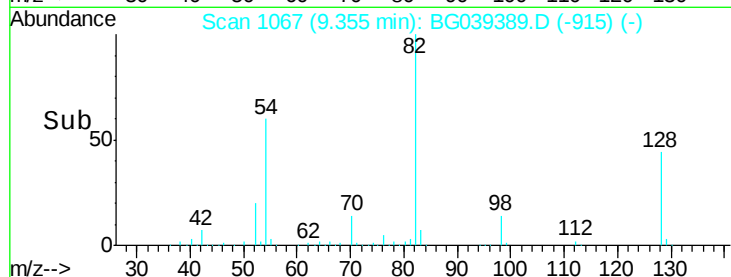
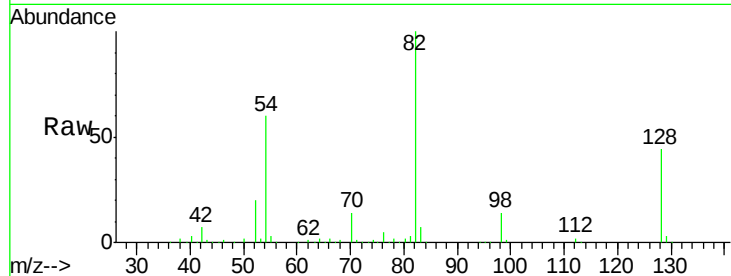




#19  
n-Nitroso-di-n-propylamine  
Concen: 17.46 ng  
RT: 9.35 min Scan# 1067  
Delta R.T. 0.36 min  
Lab File: BG039389.D  
Acq: 7 Feb 2019 19:38

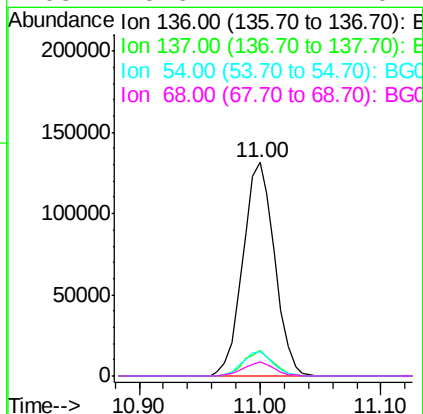
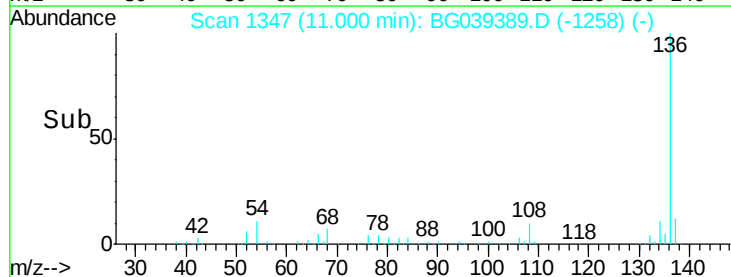
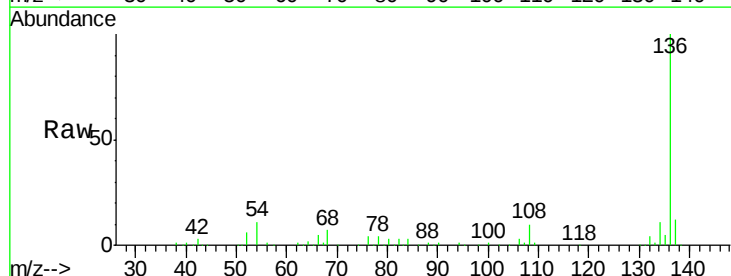
Instrument :  
BNA\_G  
ClientSampled :  
MW-9

Tot Ion: 70 Resp: 59856  
Ion Ratio Lower Upper  
70 100  
42 46.0 60.4 90.6#  
101 0.0 7.5 11.3#  
130 2.1 16.9 25.3#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.00 min Scan# 1347  
Delta R.T. -0.01 min  
Lab File: BG039389.D  
Acq: 7 Feb 2019 19:38

Tgt Ion: 136 Resp: 239782  
Ion Ratio Lower Upper  
136 100  
137 12.2 9.1 13.7  
54 11.2 9.4 14.2  
68 6.6 4.2 6.4#





#23

Nitrobenzene-d5

Concen: 114.59 ng

RT: 9.35 min Scan# 1067

Delta R.T. -0.01 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

Instrument :

BNA\_G

ClientSampleId :

MW-9

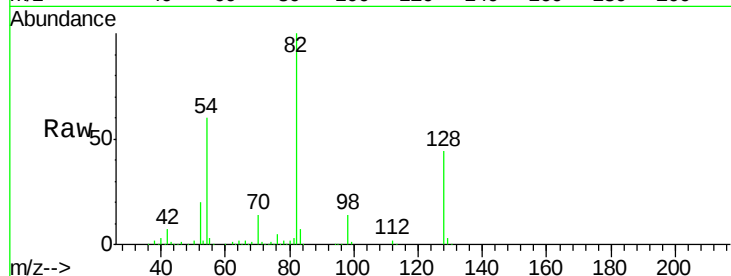
Tot Ion: 82 Resp: 439838

Ion Ratio Lower Upper

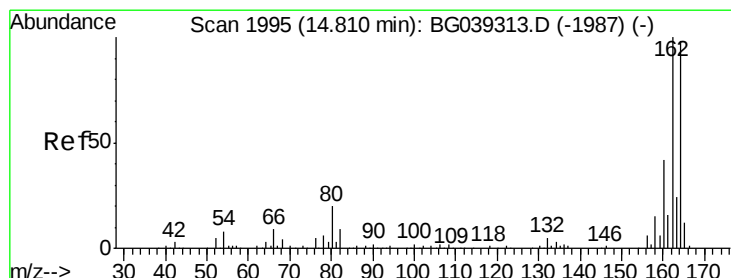
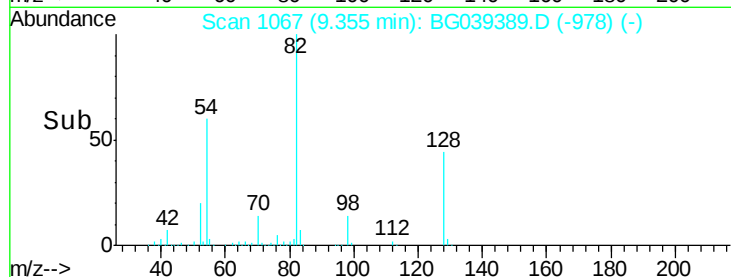
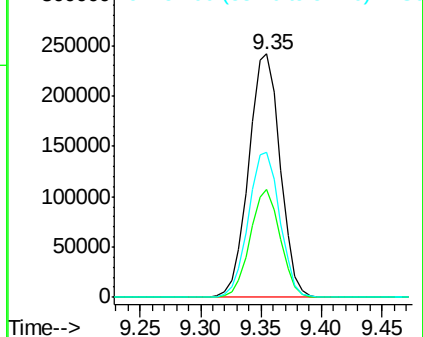
82 100

128 44.5 31.3 46.9

54 59.7 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



#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.80 min Scan# 1994

Delta R.T. -0.01 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

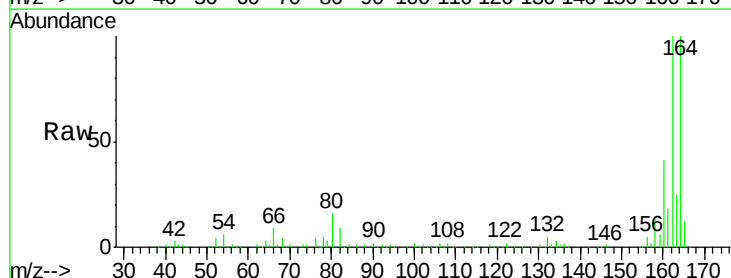
Tgt Ion: 164 Resp: 159453

Ion Ratio Lower Upper

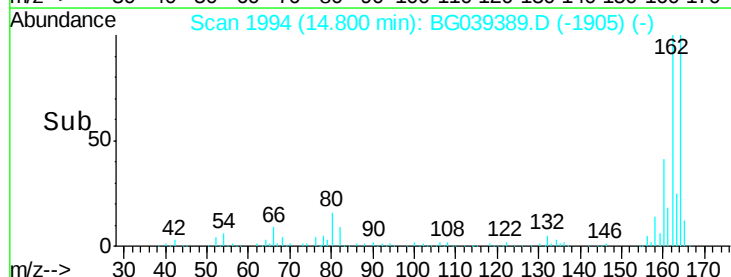
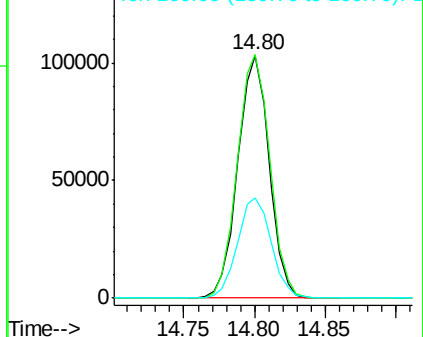
164 100

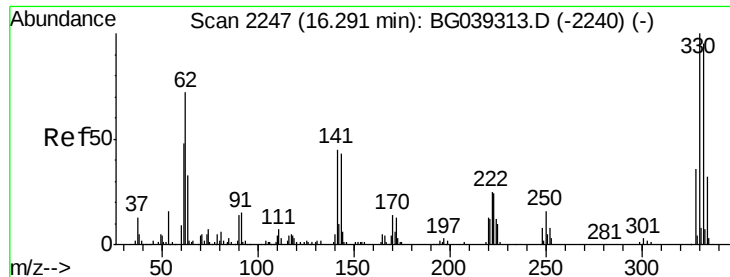
162 100.3 81.6 122.4

160 41.2 34.2 51.2



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC

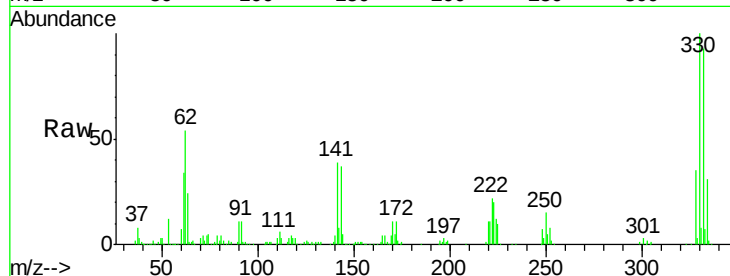




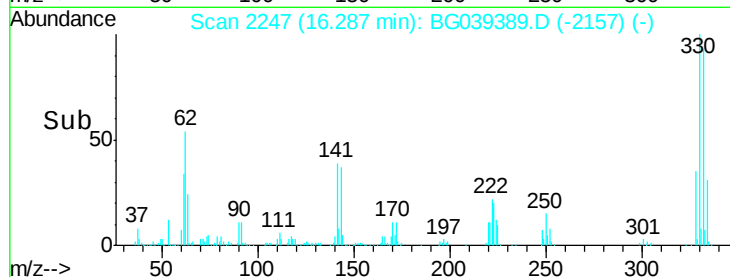
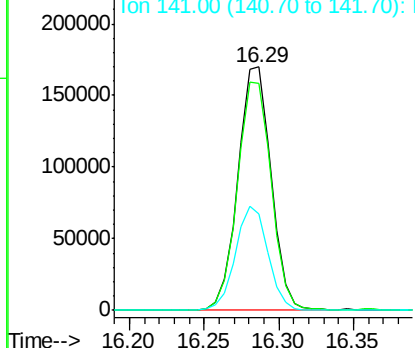
#42  
 2,4,6-Tribromophenol  
 Concen: 152.71 ng  
 RT: 16.29 min Scan# 2247  
 Delta R.T. -0.00 min  
 Lab File: BG039389.D  
 Acq: 7 Feb 2019 19:38

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-9

Tot Ion:330 Resp: 262211  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 75.7 113.5  
 141 42.1 35.6 53.4

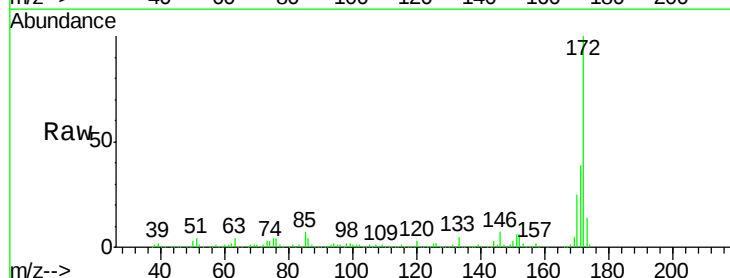


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

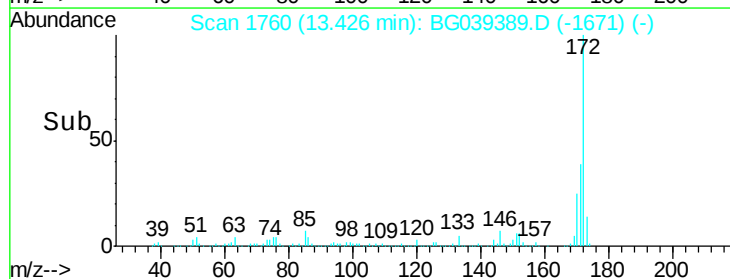
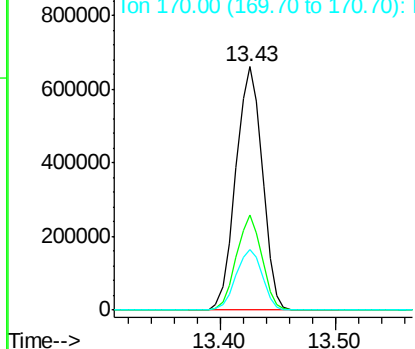


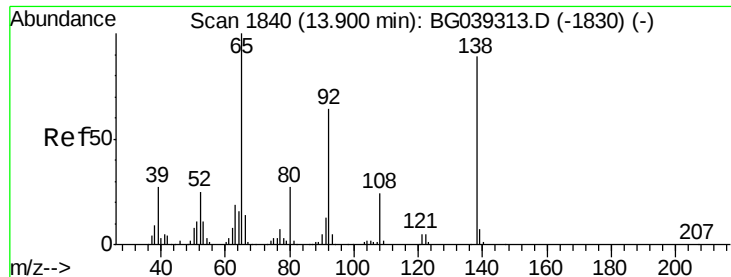
#45  
 2-Fluorobiphenyl  
 Concen: 94.61 ng  
 RT: 13.43 min Scan# 1760  
 Delta R.T. -0.01 min  
 Lab File: BG039389.D  
 Acq: 7 Feb 2019 19:38

Tgt Ion:172 Resp: 1051634  
 Ion Ratio Lower Upper  
 172 100  
 171 39.1 30.8 46.2  
 170 25.1 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

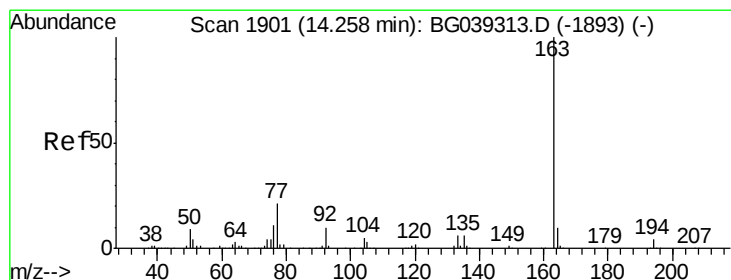
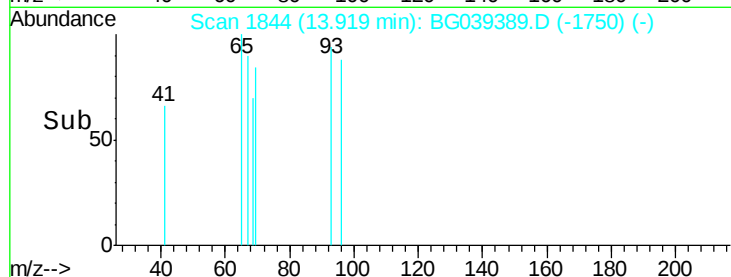
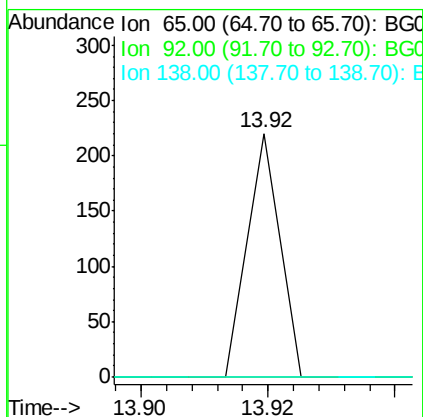
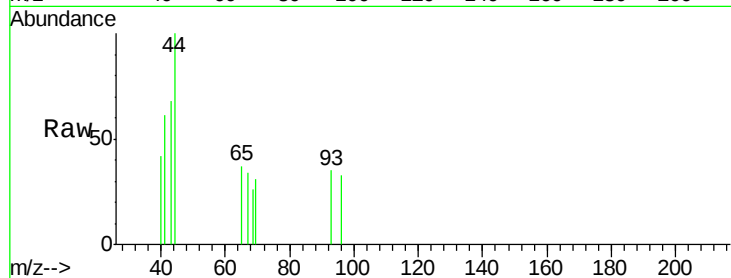




#48  
2-Nitroaniline  
Concen: 8.32 ng  
RT: 13.92 min Scan# 1844  
Delta R.T. 0.02 min  
Lab File: BG039389.D  
Acq: 7 Feb 2019 19:38

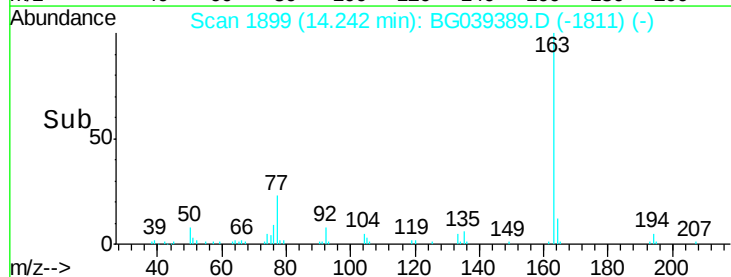
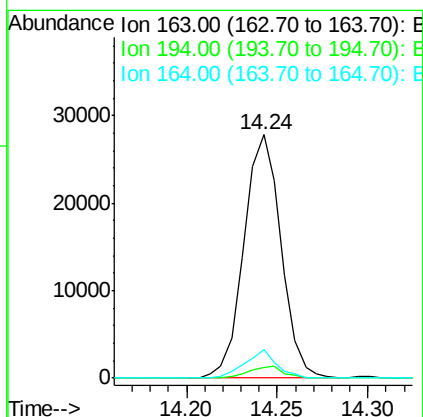
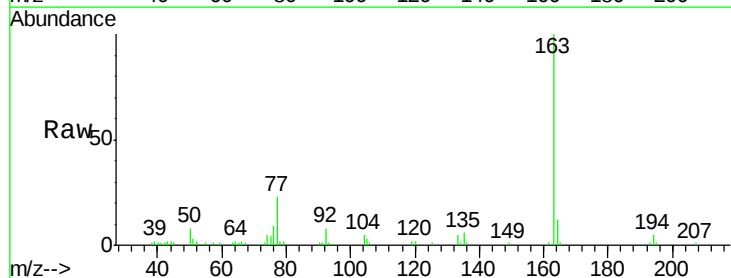
Instrument :  
BNA\_G  
ClientSampleId :  
MW-9

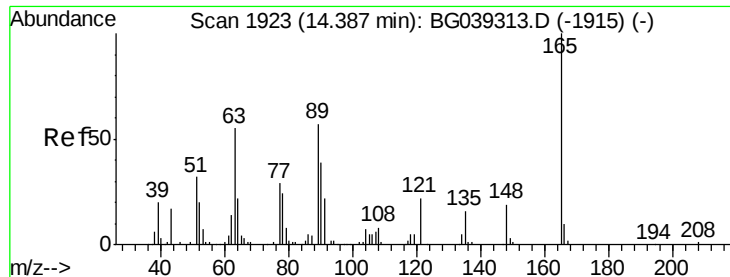
Tot Ion: 65 Resp: 78  
Ion Ratio Lower Upper  
65 100  
92 0.0 51.4 77.2#  
138 0.0 71.4 107.2#



#50  
Dimethylphthalate  
Concen: 3.09 ng  
RT: 14.24 min Scan# 1899  
Delta R.T. -0.02 min  
Lab File: BG039389.D  
Acq: 7 Feb 2019 19:38

Tgt Ion:163 Resp: 39765  
Ion Ratio Lower Upper  
163 100  
194 4.6 3.6 5.4  
164 11.7 8.4 12.6





#51

2,6-Dinitrotoluene

Concen: 13.99 ng

RT: 14.80 min Scan# 1994

Delta R.T. 0.41 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

Instrument :

BNA\_G

ClientSampleId :

MW-9

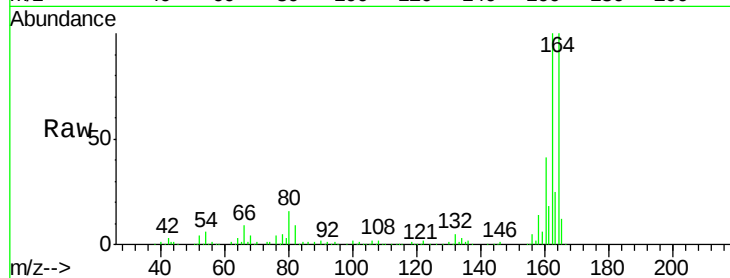
Tot Ion:165 Resp: 20718

Ion Ratio Lower Upper

165 100

63 2.6 47.0 70.6#

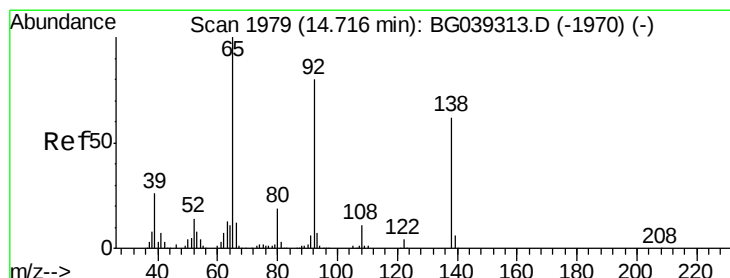
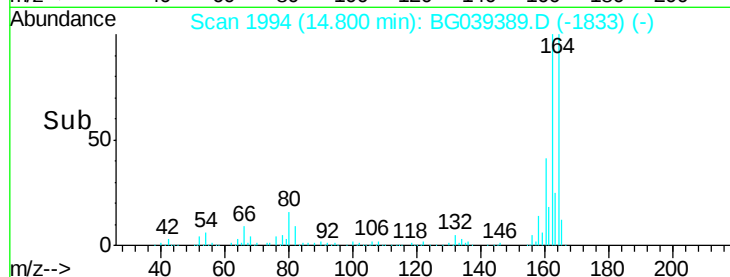
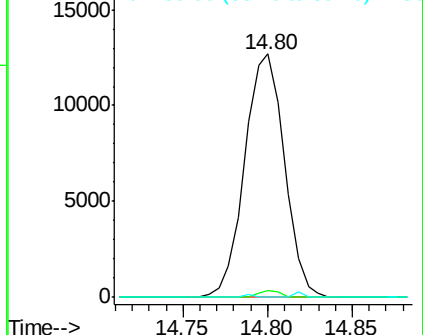
89 0.0 45.8 68.8#



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



#53

3-Nitroaniline

Concen: 5.81 ng

RT: 14.41 min Scan# 1928

Delta R.T. -0.30 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

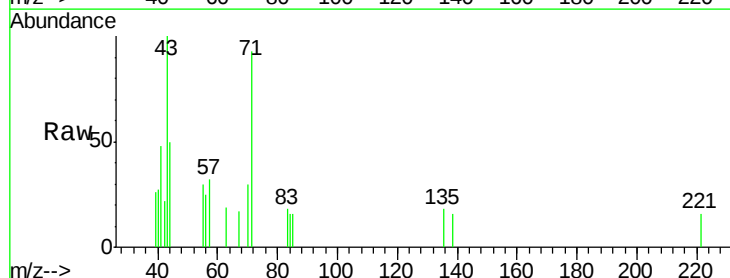
Tgt Ion:138 Resp: 53

Ion Ratio Lower Upper

138 100

108 0.0 13.8 20.8#

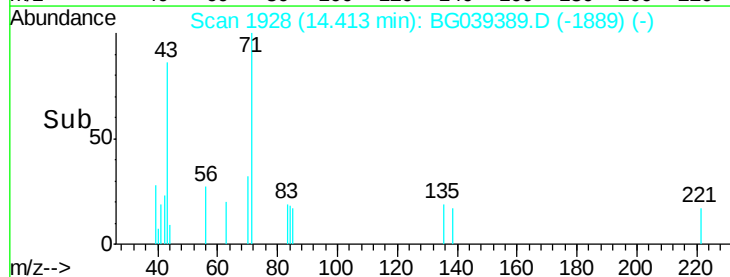
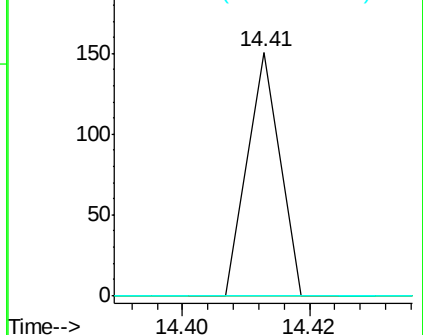
92 0.0 103.7 155.5#

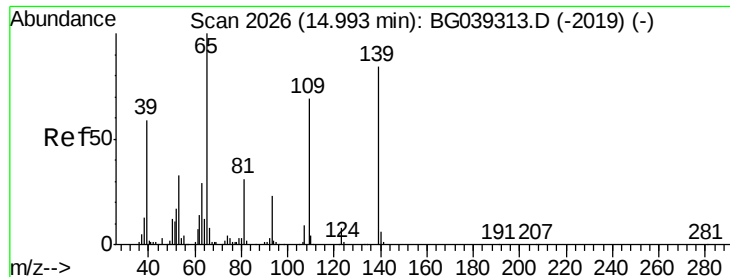


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC

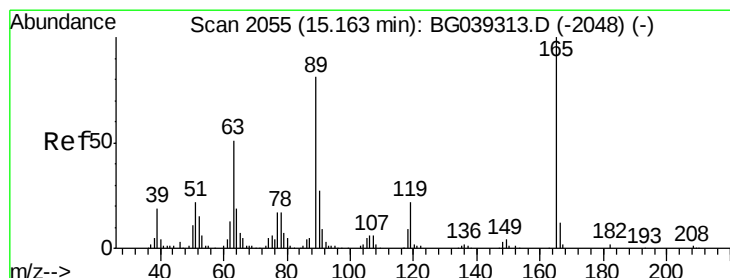
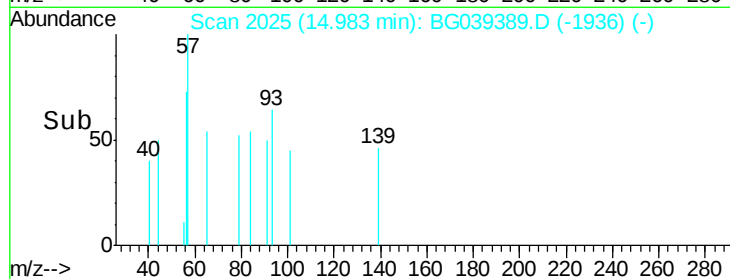
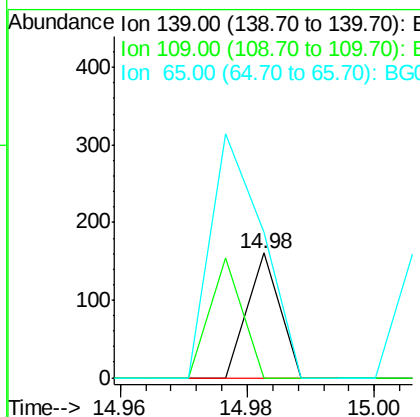
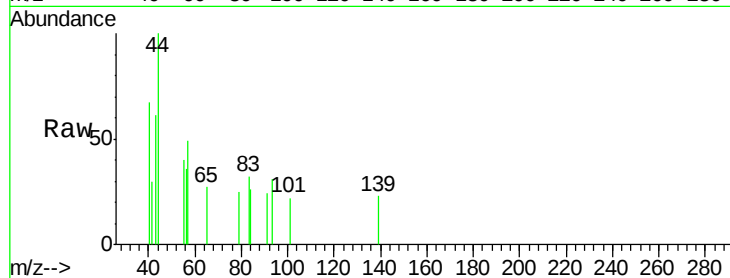




#56  
4-Nitrophenol  
Concen: 5.82 ng  
RT: 14.98 min Scan# 2025  
Delta R.T. -0.01 min  
Lab File: BG039389.D  
Acq: 7 Feb 2019 19:38

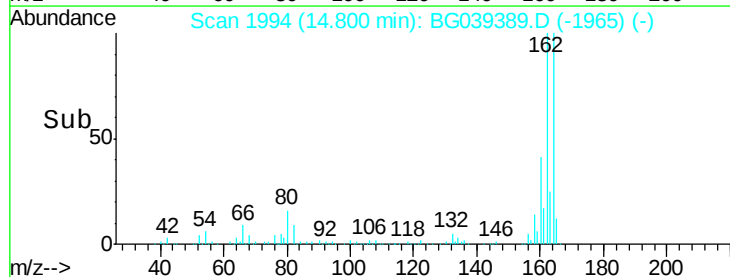
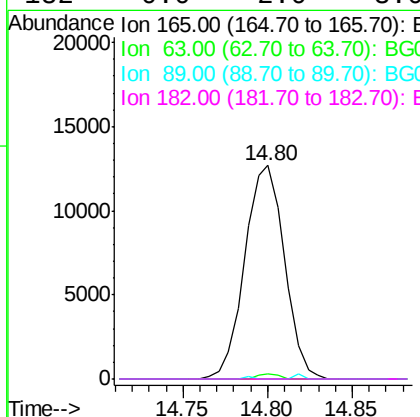
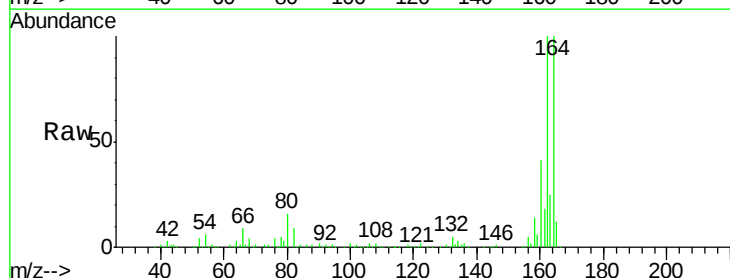
Instrument :  
BNA\_G  
ClientSampled :  
MW-9

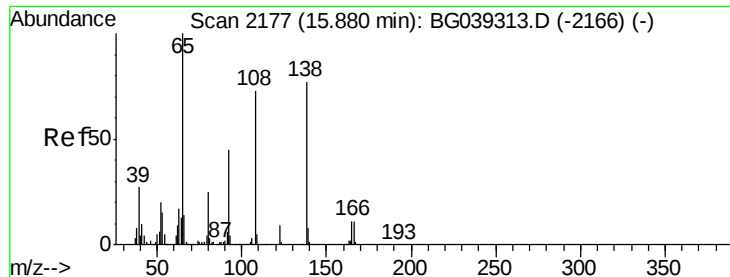
Tot Ion:139 Resp: 57  
Ion Ratio Lower Upper  
139 100  
109 0.0 61.9 101.9#  
65 116.8 99.1 139.1



#57  
2,4-Dinitrotoluene  
Concen: 13.45 ng  
RT: 14.80 min Scan# 1994  
Delta R.T. -0.36 min  
Lab File: BG039389.D  
Acq: 7 Feb 2019 19:38

Tgt Ion:165 Resp: 20718  
Ion Ratio Lower Upper  
165 100  
63 2.6 41.0 61.6#  
89 0.0 64.6 96.8#  
182 0.0 2.0 3.0#





#62

4-Nitroaniline

Concen: 4.23 ng

RT: 15.88 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

Instrument :

BNA\_G

ClientSampleId :

MW-9

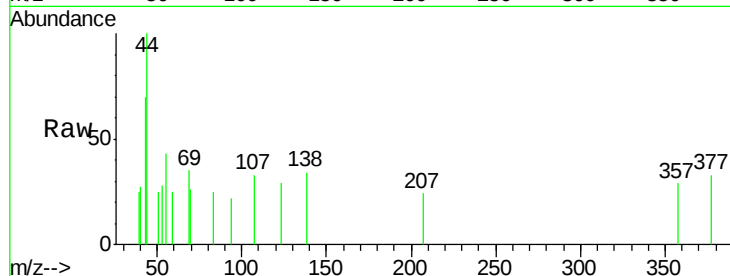
Tot Ion:138 Resp: 80

Ion Ratio Lower Upper

138 100

92 0.0 38.7 78.7#

108 0.0 74.6 114.6#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG0

Ion 108.00 (107.70 to 108.70): E

15.88

250

200

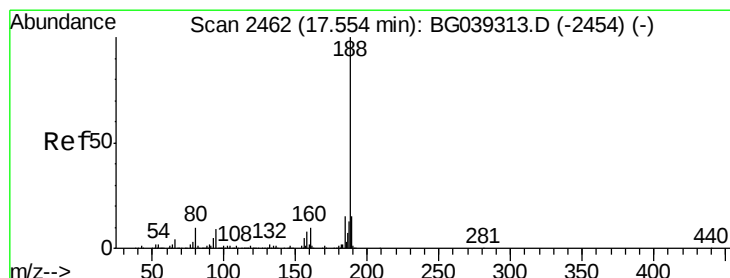
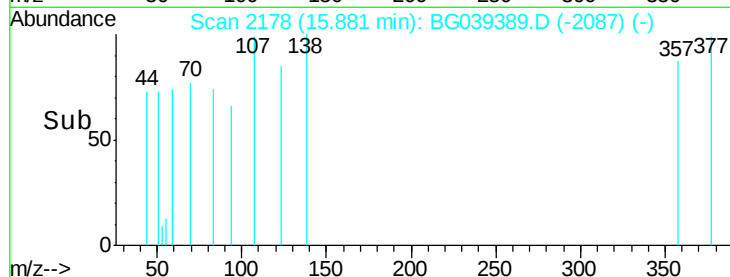
150

100

50

0

Time--> 15.86 15.88 15.90



#64

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.54 min Scan# 2461

Delta R.T. -0.01 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

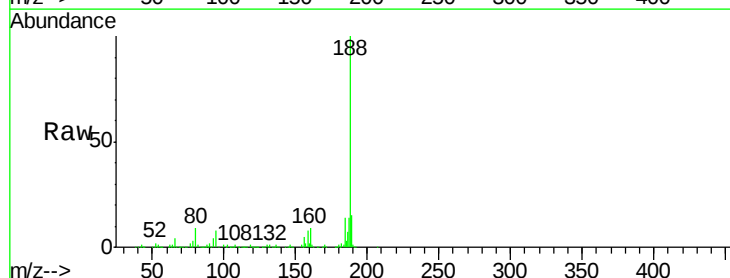
Tgt Ion:188 Resp: 379634

Ion Ratio Lower Upper

188 100

94 7.9 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): BG0

Ion 80.00 (79.70 to 80.70): BG0

17.54

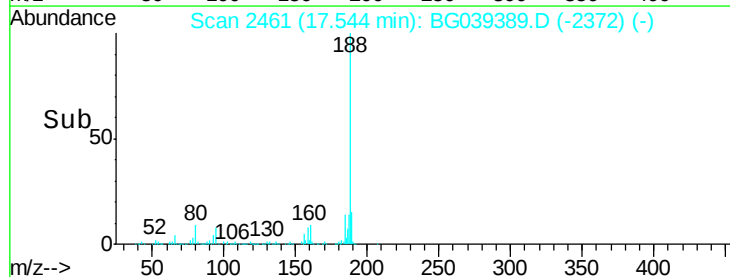
300000

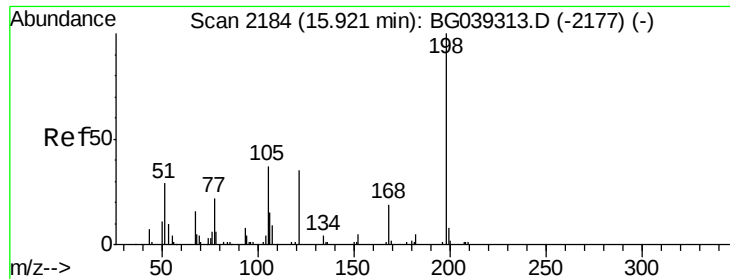
200000

100000

0

Time--> 17.50 17.54 17.60

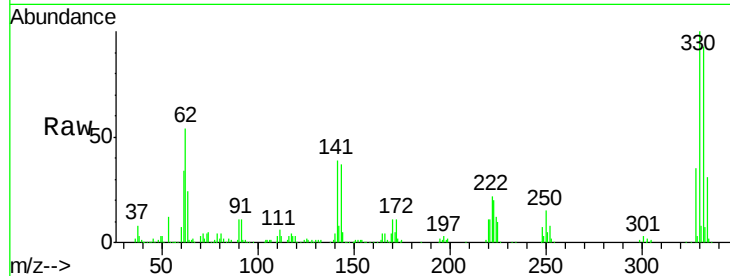




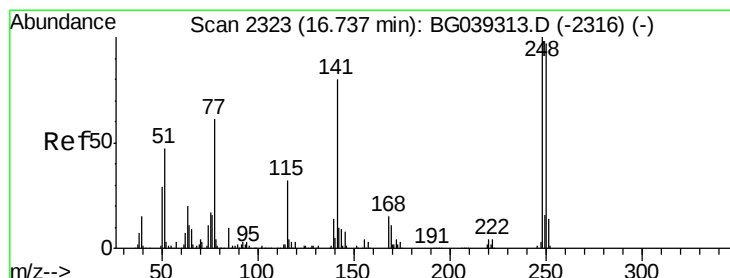
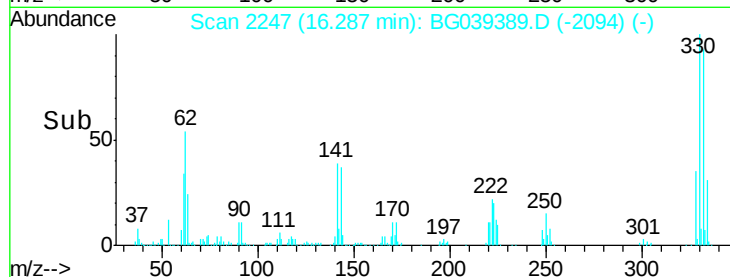
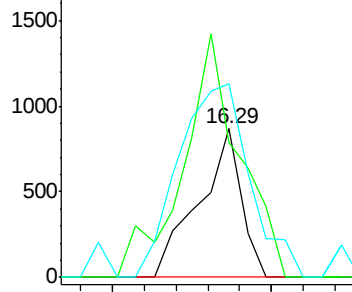
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.85 ng  
 RT: 16.29 min Scan# 2247  
 Delta R.T. 0.37 min  
 Lab File: BG039389.D  
 Acq: 7 Feb 2019 19:38

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-9

Tot Ion:198 Resp: 801  
 Ion Ratio Lower Upper  
 198 100  
 51 90.3 27.4 67.4#  
 105 130.6 19.7 59.7#

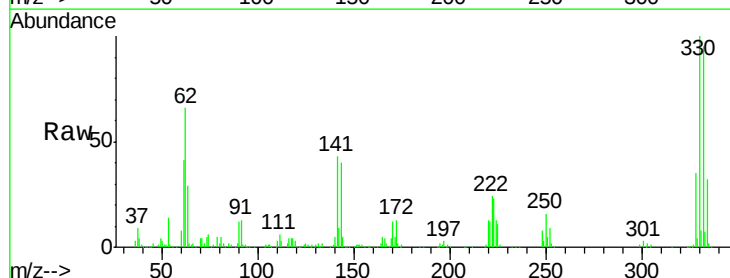


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG0  
 Ion 105.00 (104.70 to 105.70): E

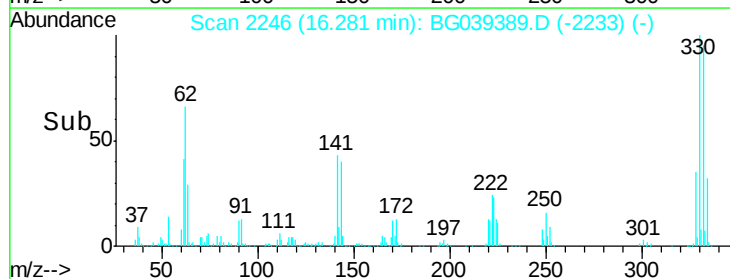
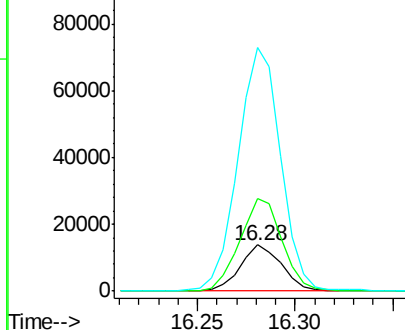


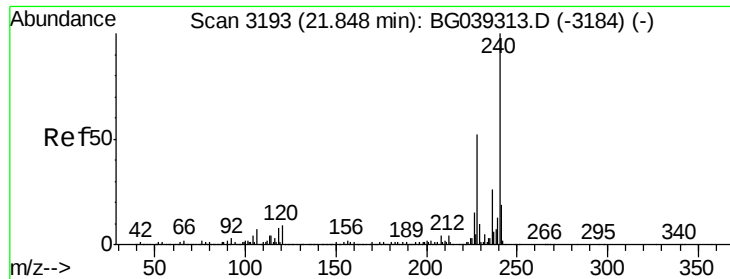
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.76 ng  
 RT: 16.28 min Scan# 2246  
 Delta R.T. -0.46 min  
 Lab File: BG039389.D  
 Acq: 7 Feb 2019 19:38

Tgt Ion:248 Resp: 20036  
 Ion Ratio Lower Upper  
 248 100  
 250 198.9 77.6 116.4#  
 141 526.5 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

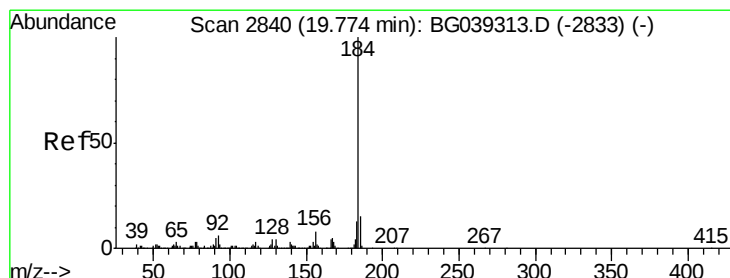
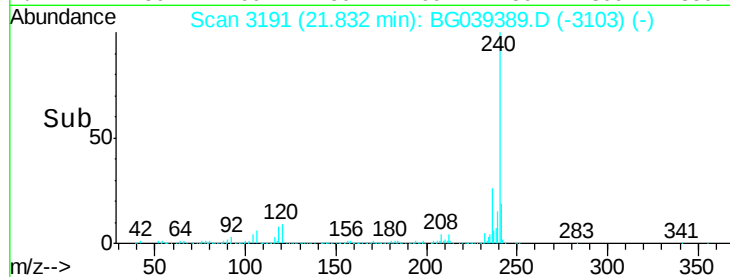
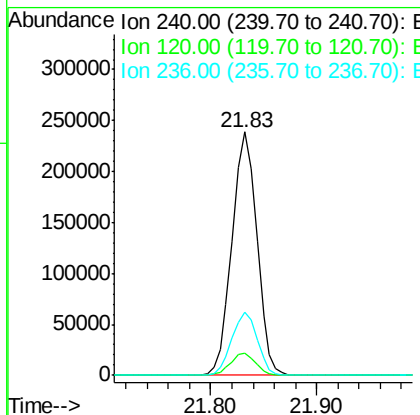
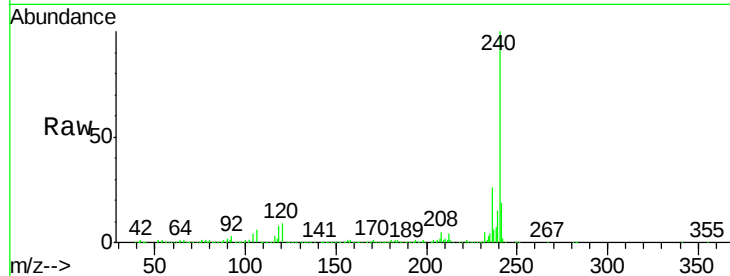




#76  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 21.83 min Scan# 3191  
 Delta R.T. -0.02 min  
 Lab File: BG039389.D  
 Acq: 7 Feb 2019 19:38

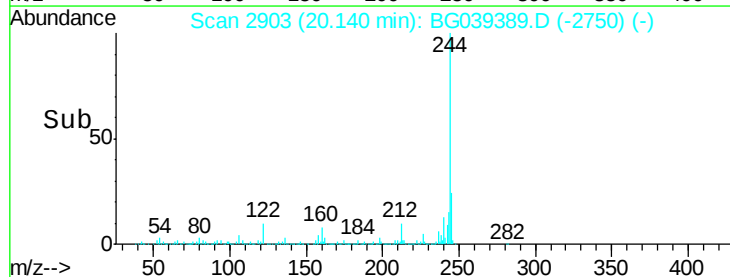
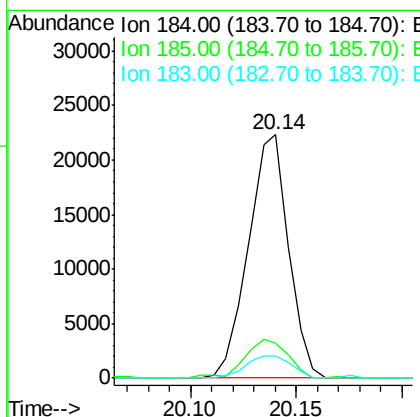
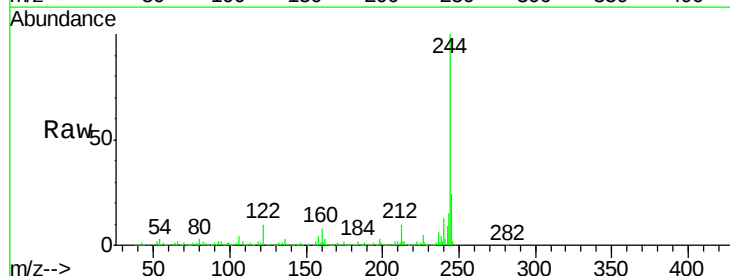
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-9

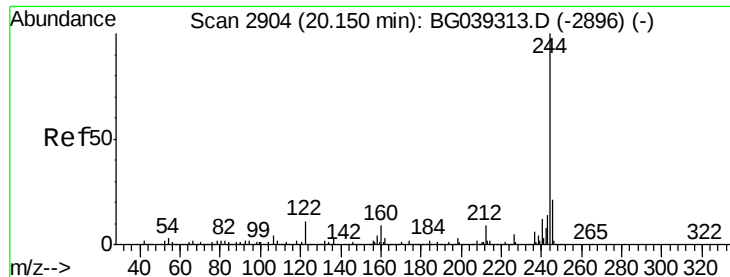
Tot Ion:240 Resp: 389889  
 Ion Ratio Lower Upper  
 240 100  
 120 9.1 7.0 10.6  
 236 26.0 21.0 31.4



#77  
 Benzidine  
 Concen: 2.30 ng  
 RT: 20.14 min Scan# 2903  
 Delta R.T. 0.37 min  
 Lab File: BG039389.D  
 Acq: 7 Feb 2019 19:38

Tgt Ion:184 Resp: 29375  
 Ion Ratio Lower Upper  
 184 100  
 185 14.5 12.2 18.2  
 183 9.1 10.6 15.8#





#79

Terphenyl-d14

Concen: 87.17 ng

RT: 20.13 min Scan# 2902

Delta R.T. -0.02 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

Instrument :

BNA\_G

ClientSampled :

MW-9

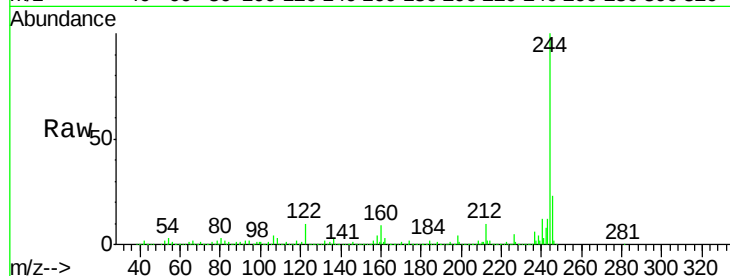
Tot Ion:244 Resp: 1605701

Ion Ratio Lower Upper

244 100

212 9.6 7.3 10.9

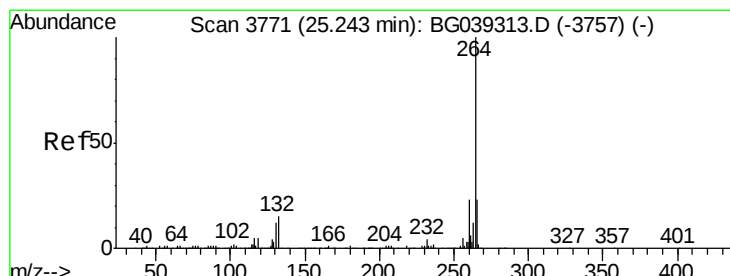
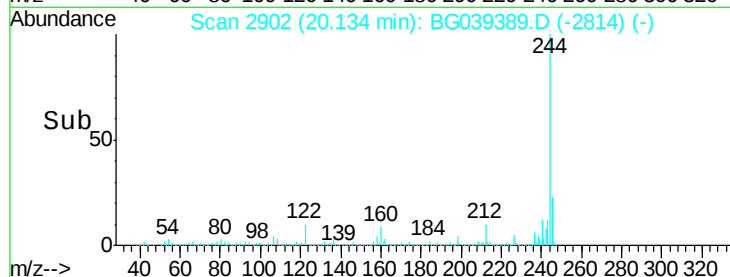
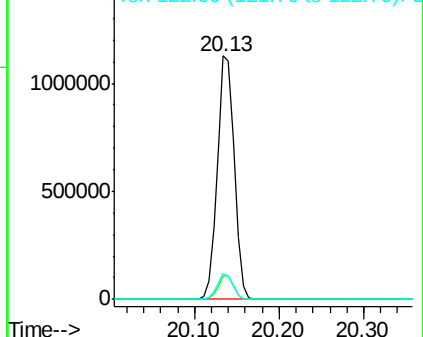
122 10.5 8.4 12.6



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: 20.00 ng

RT: 25.22 min Scan# 3767

Delta R.T. -0.03 min

Lab File: BG039389.D

Acq: 7 Feb 2019 19:38

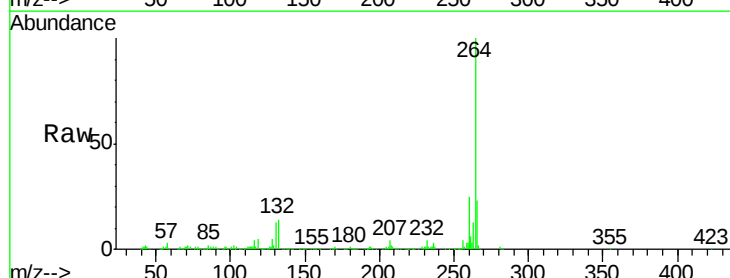
Tgt Ion:264 Resp: 399617

Ion Ratio Lower Upper

264 100

260 25.2 18.2 27.4

265 22.8 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

