

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031919\  
 Data File : BG040031.D  
 Acq On : 20 Mar 2019 9:53  
 Operator : JU/SJ  
 Sample : K1956-04  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-7

Quant Time: Mar 20 10:56:16 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 04 14:38:15 2019  
 Response via : Initial Calibration

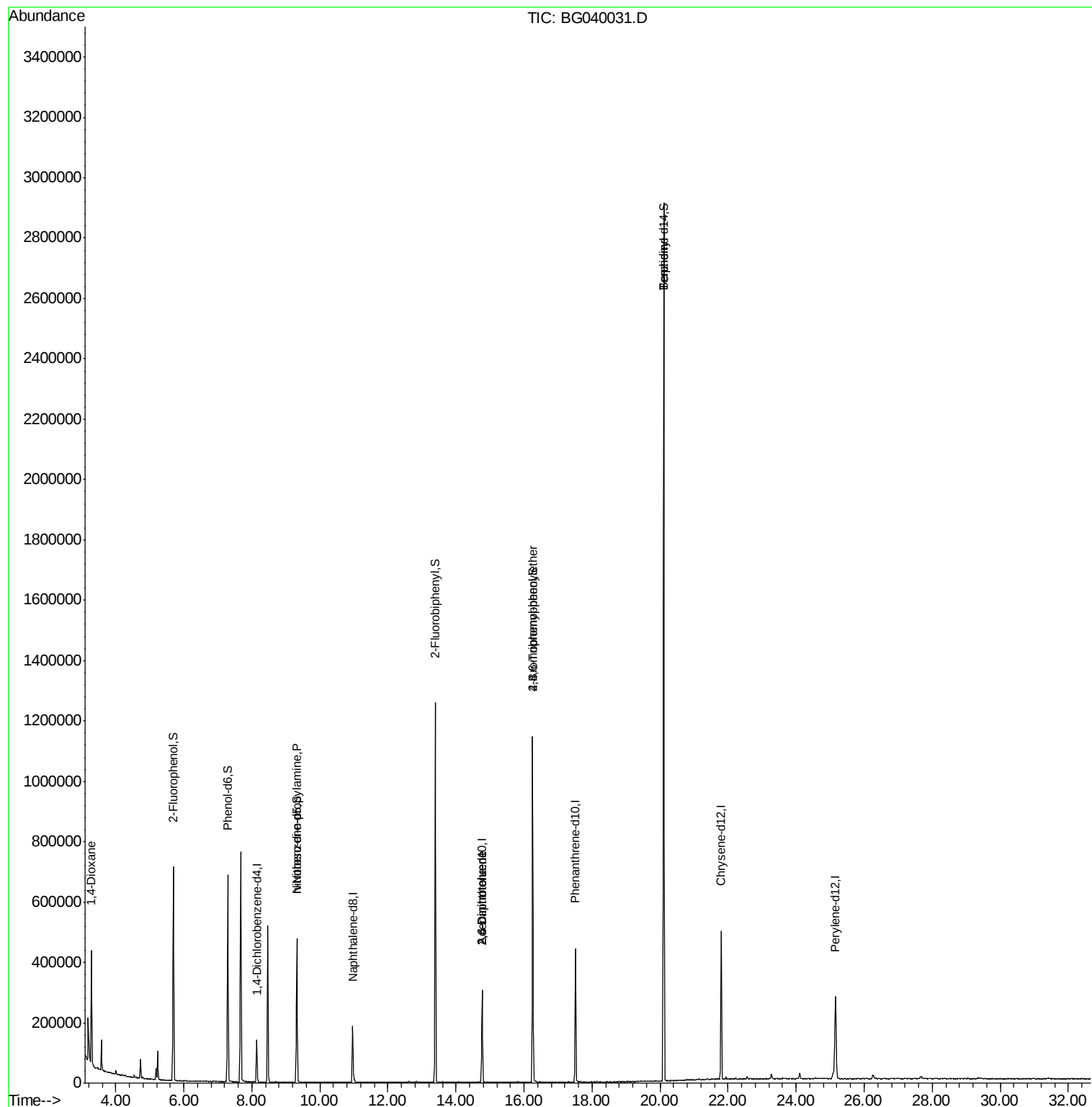
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.14  | 152  | 36364    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 10.96 | 136  | 155479   | 20.00  | ng    | -0.03    |
| 39) Acenaphthene-d10           | 14.77 | 164  | 103686   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.51 | 188  | 278175   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.80 | 240  | 305416   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 25.16 | 264  | 304300   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.69  | 112  | 282552   | 132.56 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.29  | 99   | 367398   | 115.60 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.32  | 82   | 286146   | 99.54  | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol       | 16.26 | 330  | 181706   | 150.35 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.39 | 172  | 654409   | 89.86  | ng    | -0.03    |
| 79) Terphenyl-d14              | 20.11 | 244  | 1310548  | 94.48  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.28  | 88   | 3089     | 3.139  | ng    | # 1      |
| 19) n-Nitroso-di-n-propylamine | 9.32  | 70   | 37536    | 16.408 | ng    | # 68     |
| 51) 2,6-Dinitrotoluene         | 14.77 | 165  | 12577    | 6.843  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.77 | 165  | 12577    | 4.870  | ng    | # 19     |
| 67) 4-Bromophenyl-phenylether  | 16.26 | 248  | 13971    | 4.487  | ng    | # 1      |
| 77) Benzidine                  | 20.11 | 184  | 25043    | 2.584  | ng    | # 92     |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 04 14:38:15 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.14 min Scan# 860

Delta R.T. -0.03 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

Instrument :

BNA\_G

ClientSampled :

TP-7

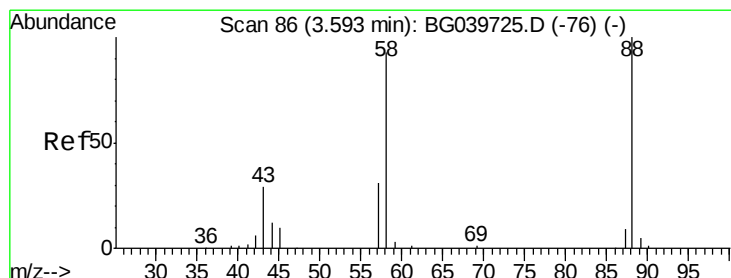
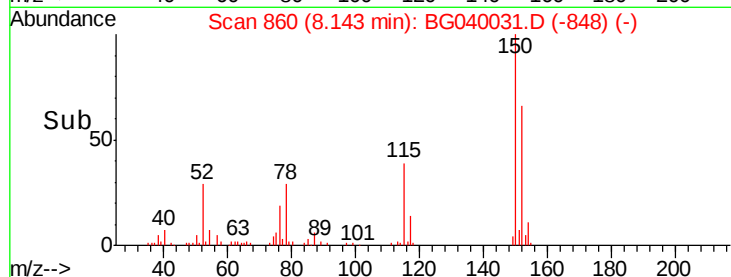
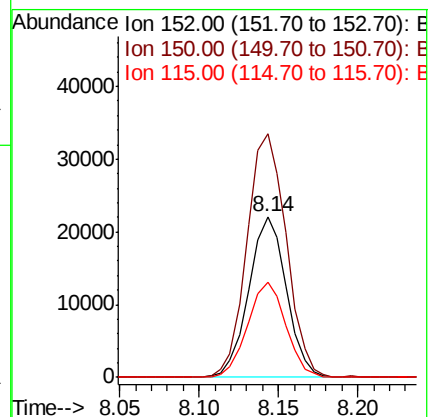
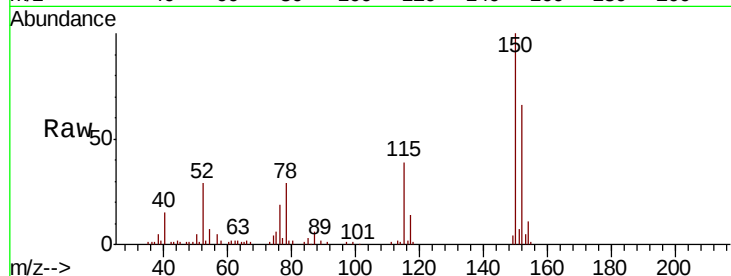
Tot Ion:152 Resp: 36364

Ion Ratio Lower Upper

152 100

150 151.4 123.7 185.5

115 59.2 45.9 68.9



#2

1,4-Dioxane

Concen: 3.139 ng

RT: 3.28 min Scan# 32

Delta R.T. -0.33 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

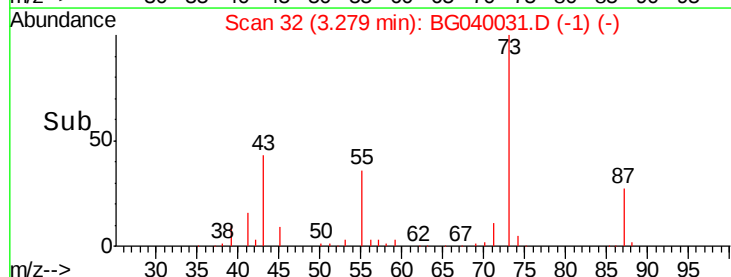
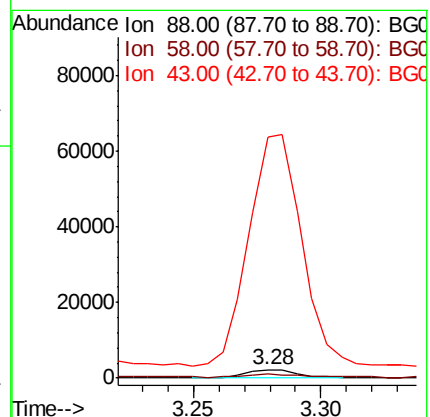
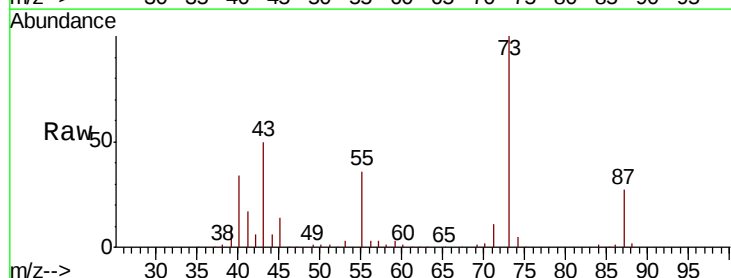
Tgt Ion: 88 Resp: 3089

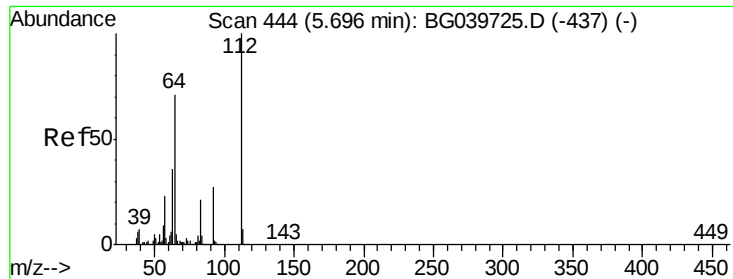
Ion Ratio Lower Upper

88 100

58 49.8 81.1 121.7#

43 2964.8 31.4 47.0#





#5

2-Fluorophenol

Concen: 132.559 ng

RT: 5.69 min Scan# 442

Delta R.T. -0.02 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

Instrument :

BNA\_G

ClientSampleId :

TP-7

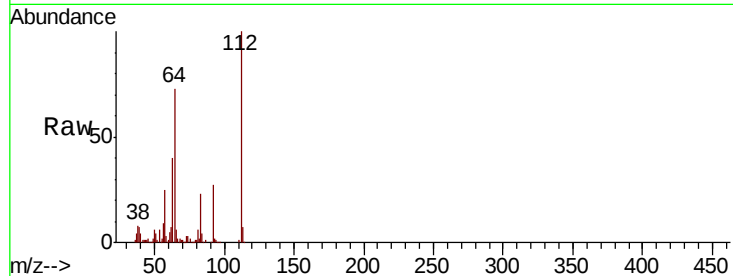
Tot Ion:112 Resp: 282552

Ion Ratio Lower Upper

112 100

64 72.8 57.8 86.8

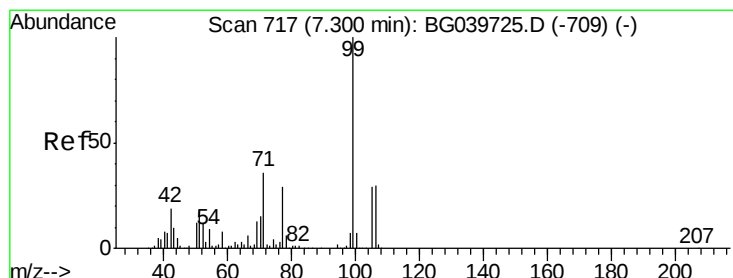
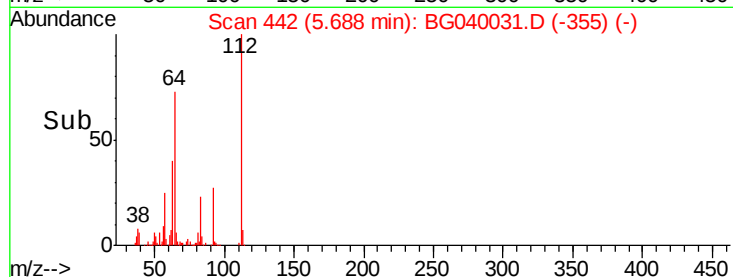
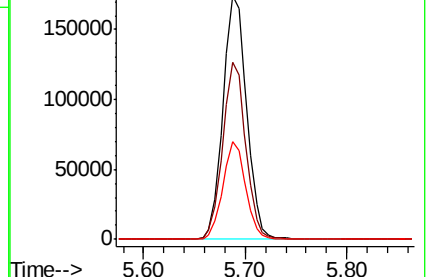
63 40.1 29.8 44.6



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: 115.598 ng

RT: 7.29 min Scan# 715

Delta R.T. -0.02 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

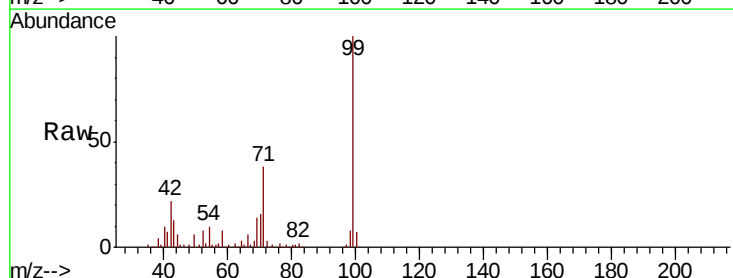
Tgt Ion: 99 Resp: 367398

Ion Ratio Lower Upper

99 100

42 22.4 18.2 27.2

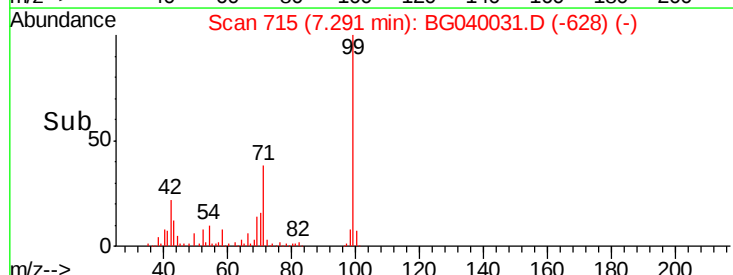
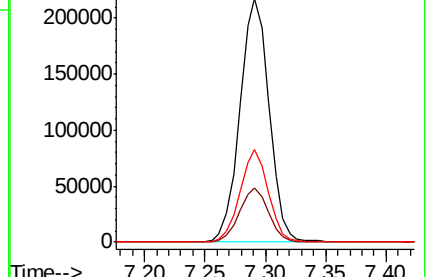
71 38.0 28.0 42.0

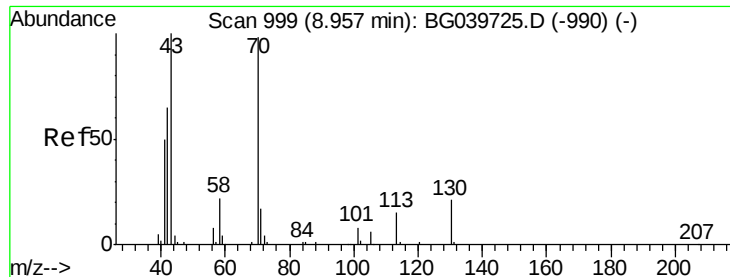


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

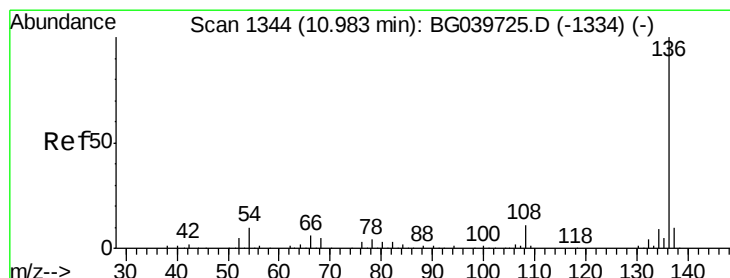
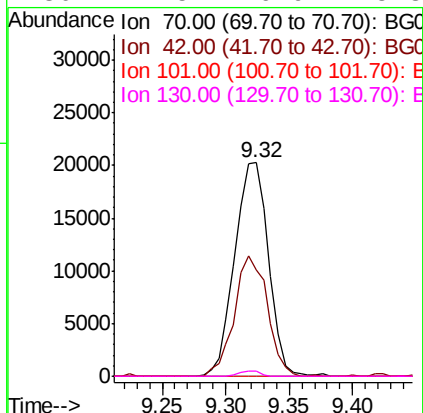
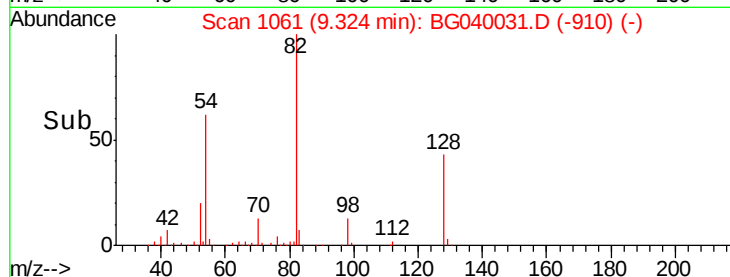
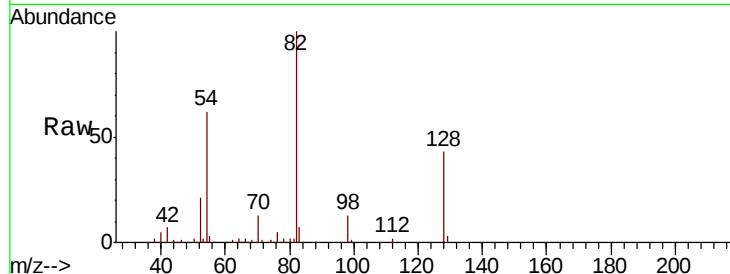




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.408 ng  
RT: 9.32 min Scan# 1061  
Delta R.T. 0.35 min  
Lab File: BG040031.D  
Acq: 20 Mar 2019 9:53

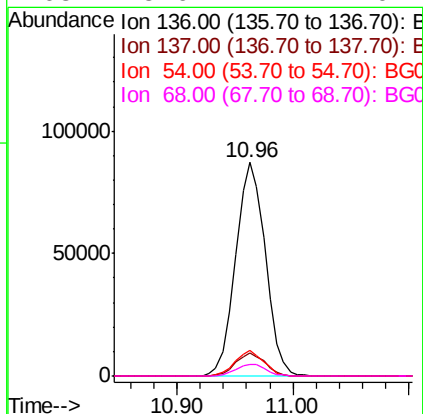
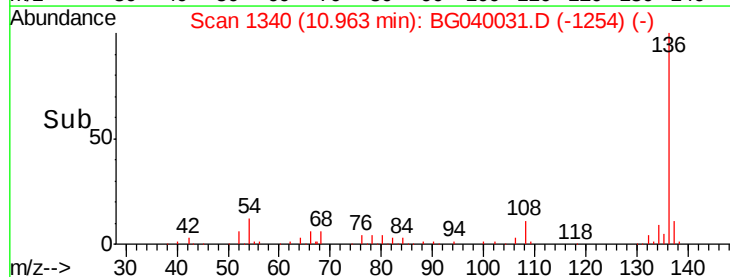
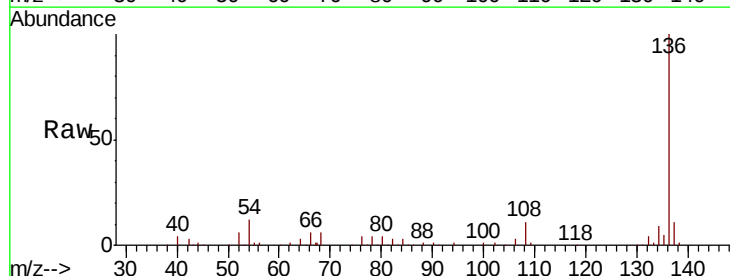
Instrument :  
BNA\_G  
ClientSampleId :  
TP-7

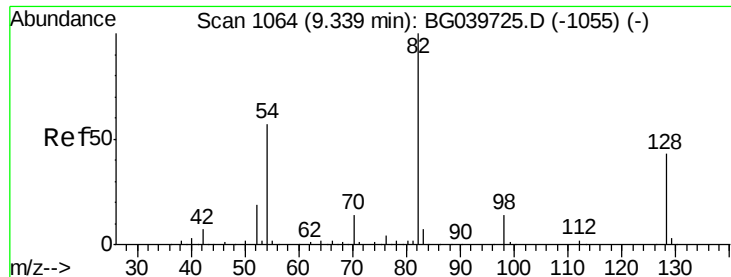
Tot Ion: 70 Resp: 37536  
Ion Ratio Lower Upper  
70 100  
42 49.8 60.4 90.6#  
101 0.0 7.5 11.3#  
130 2.5 16.9 25.3#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.96 min Scan# 1340  
Delta R.T. -0.03 min  
Lab File: BG040031.D  
Acq: 20 Mar 2019 9:53

Tgt Ion: 136 Resp: 155479  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.1 13.7  
54 11.9 9.4 14.2  
68 5.6 4.2 6.4

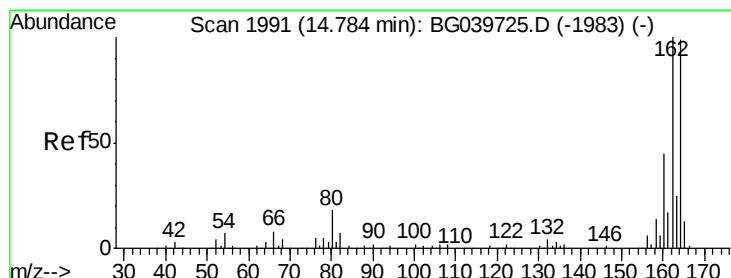
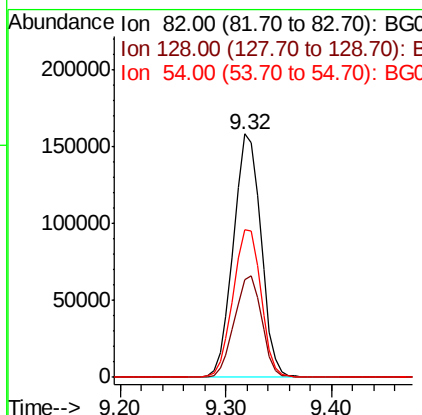
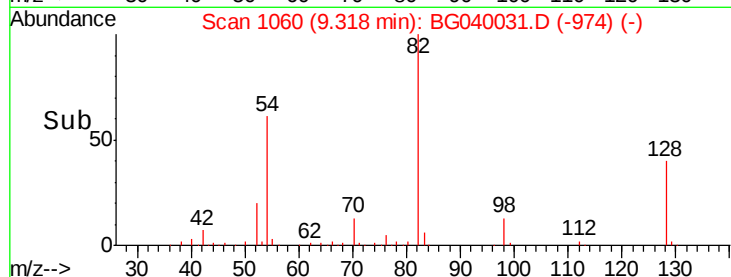
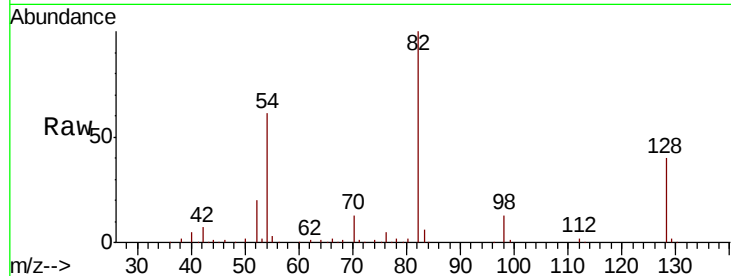




#23  
Nitrobenzene-d5  
Concen: 99.537 ng  
RT: 9.32 min Scan# 1060  
Delta R.T. -0.03 min  
Lab File: BG040031.D  
Acq: 20 Mar 2019 9:53

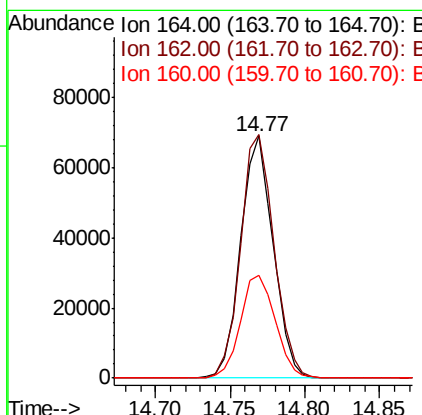
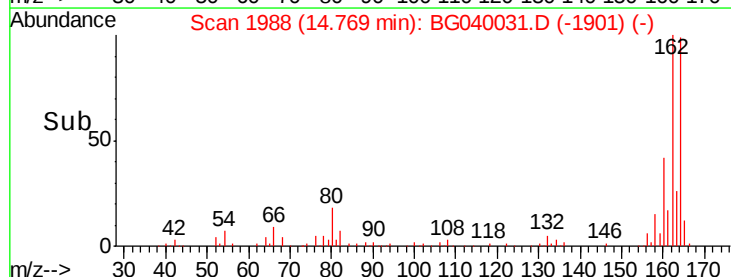
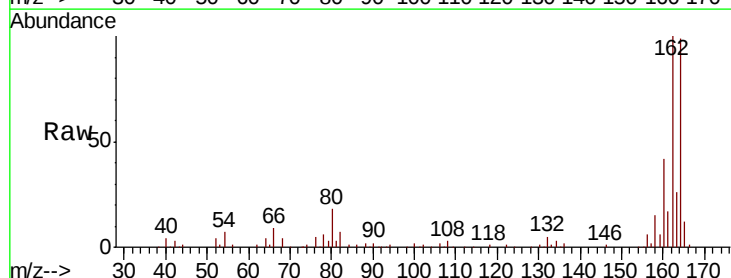
Instrument :  
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ClientSampleId :  
TP-7

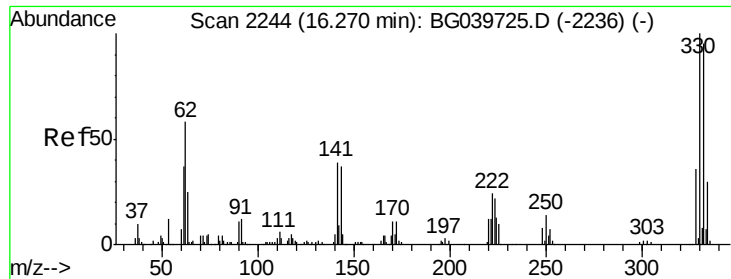
Tot Ion: 82 Resp: 286146  
Ion Ratio Lower Upper  
82 100  
128 40.1 31.3 46.9  
54 60.6 50.9 76.3



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.77 min Scan# 1988  
Delta R.T. -0.02 min  
Lab File: BG040031.D  
Acq: 20 Mar 2019 9:53

Tgt Ion: 164 Resp: 103686  
Ion Ratio Lower Upper  
164 100  
162 100.5 81.6 122.4  
160 42.7 34.2 51.2





#42

2,4,6-Tribromophenol

Concen: 150.352 ng

RT: 16.26 min Scan# 2241

Delta R.T. -0.02 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

Instrument :

BNA\_G

ClientSampleId :

TP-7

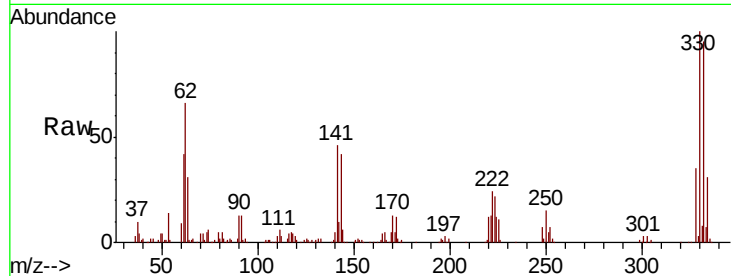
Tot Ion:330 Resp: 181706

Ion Ratio Lower Upper

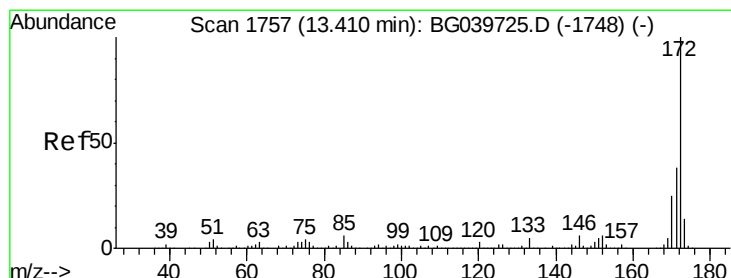
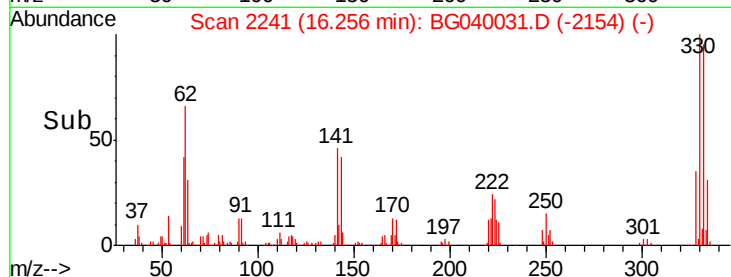
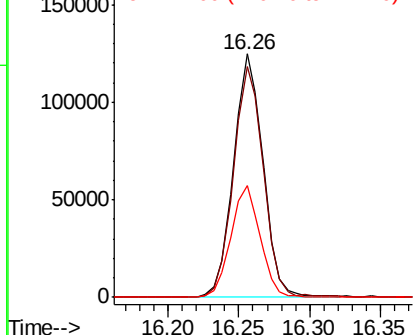
330 100

332 96.5 75.7 113.5

141 45.5 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: 89.864 ng

RT: 13.39 min Scan# 1753

Delta R.T. -0.03 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

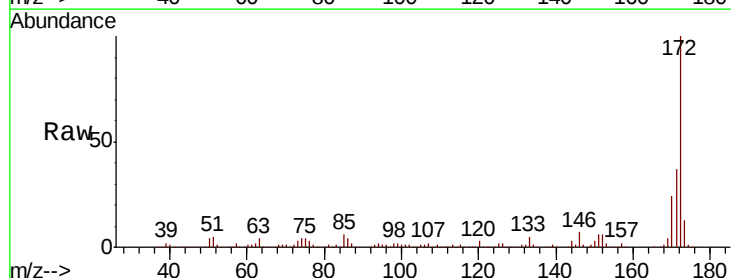
Tgt Ion:172 Resp: 654409

Ion Ratio Lower Upper

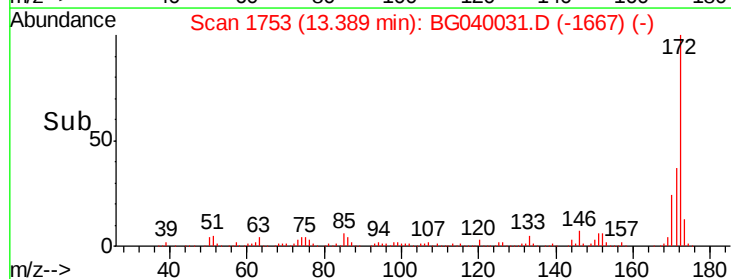
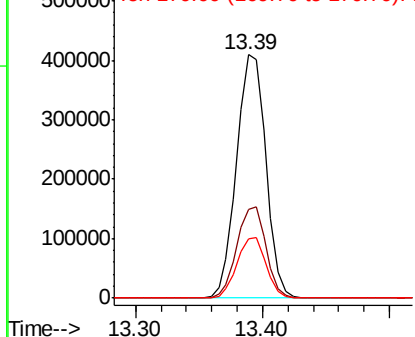
172 100

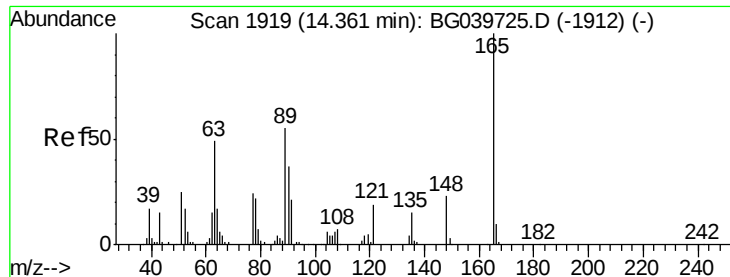
171 36.5 30.8 46.2

170 24.5 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





#51

2,6-Dinitrotoluene

Concen: 6.843 ng

RT: 14.77 min Scan# 1988

Delta R.T. 0.40 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

Instrument :

BNA\_G

ClientSampled :

TP-7

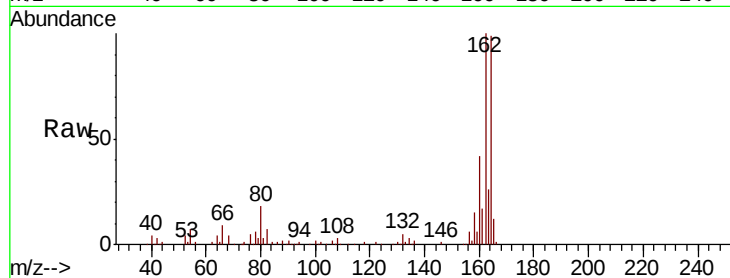
Tot Ion:165 Resp: 12577

Ion Ratio Lower Upper

165 100

63 0.0 47.0 70.6#

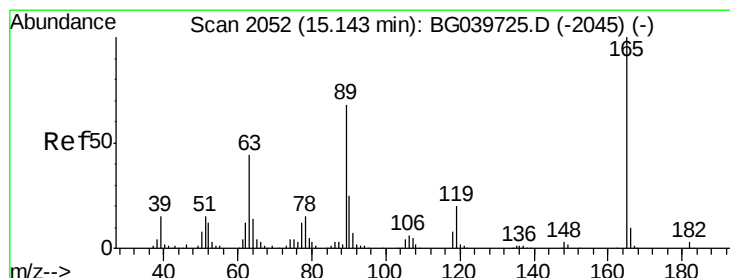
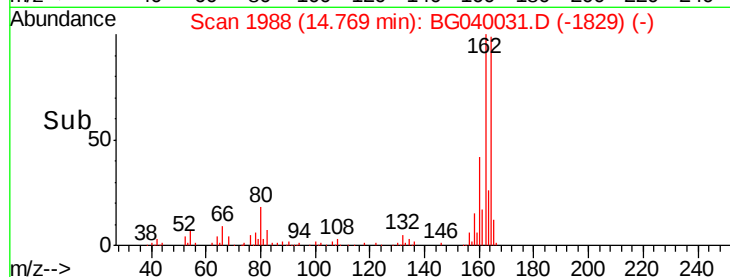
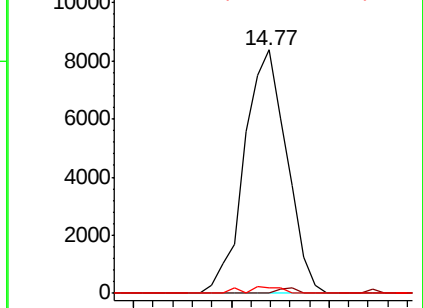
89 2.0 45.8 68.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 89.00 (88.70 to 89.70): BG



#57

2,4-Dinitrotoluene

Concen: 4.870 ng

RT: 14.77 min Scan# 1988

Delta R.T. -0.38 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

Tgt Ion:165 Resp: 12577

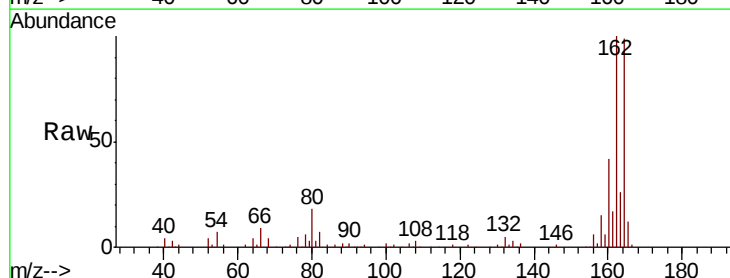
Ion Ratio Lower Upper

165 100

63 0.0 41.0 61.6#

89 2.0 64.6 96.8#

182 0.0 2.0 3.0#

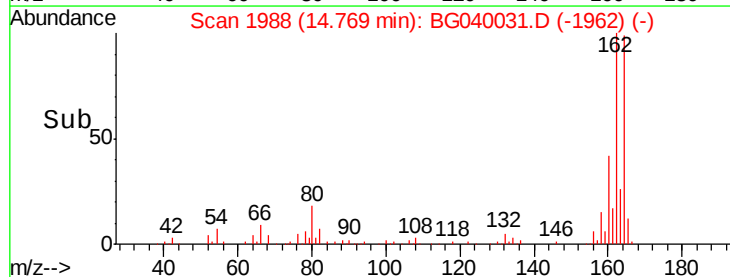
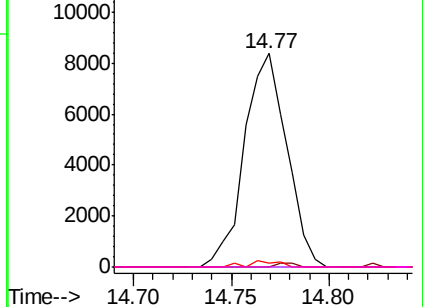


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 89.00 (88.70 to 89.70): BG

Ion 182.00 (181.70 to 182.70): E

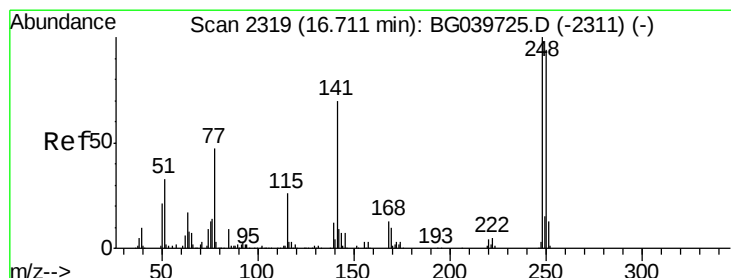
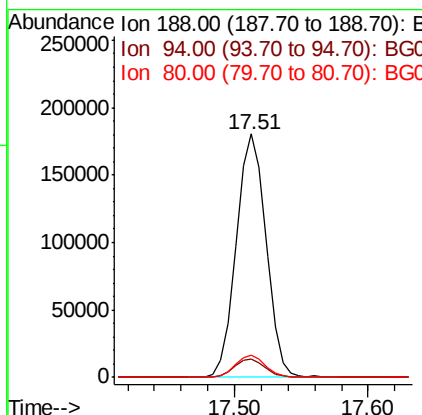
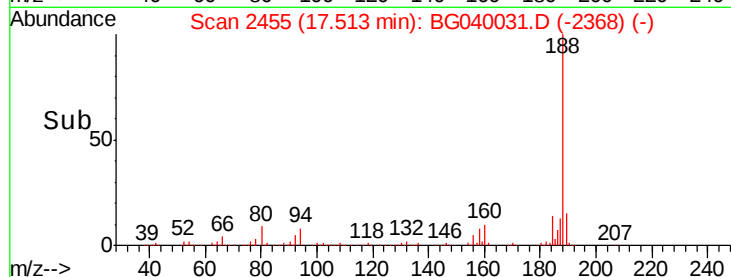
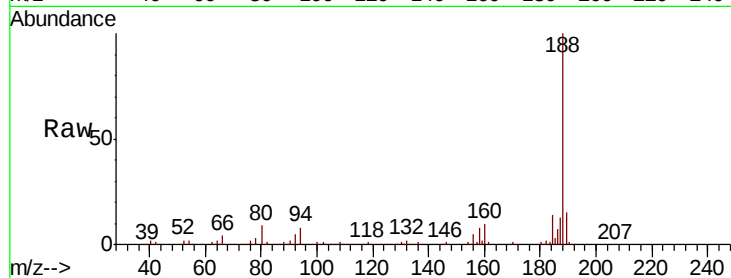




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.51 min Scan# 2455  
 Delta R.T. -0.02 min  
 Lab File: BG040031.D  
 Acq: 20 Mar 2019 9:53

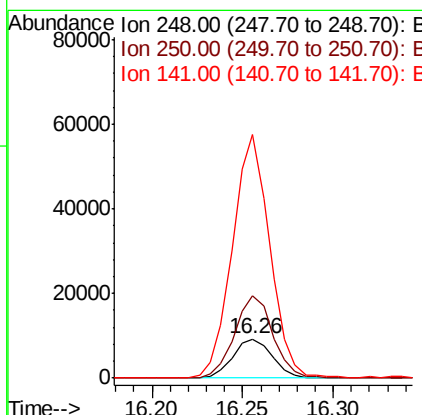
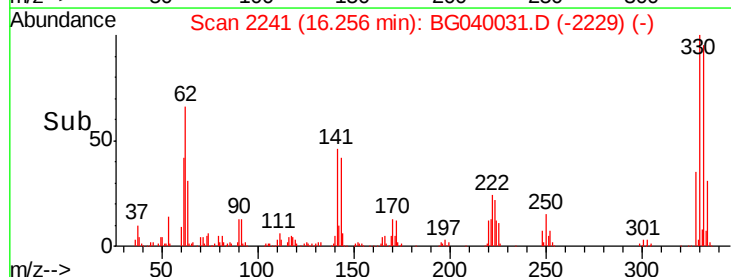
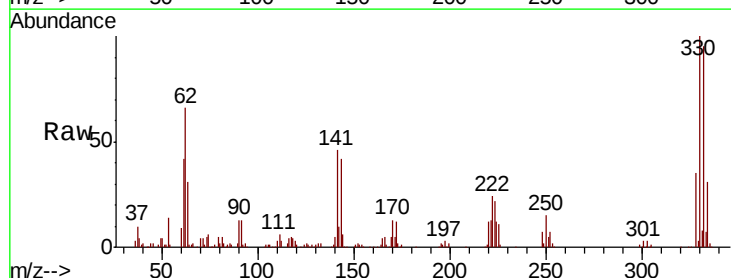
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-7

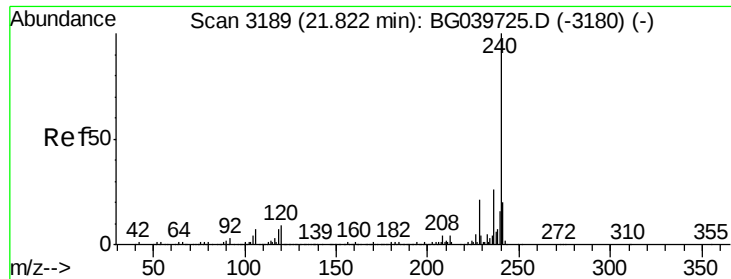
Tot Ion:188 Resp: 278175  
 Ion Ratio Lower Upper  
 188 100  
 94 7.8 6.9 10.3  
 80 8.9 8.1 12.1



#67  
 4-Bromophenyl-phenylether  
 Concen: 4.487 ng  
 RT: 16.26 min Scan# 2241  
 Delta R.T. -0.46 min  
 Lab File: BG040031.D  
 Acq: 20 Mar 2019 9:53

Tgt Ion:248 Resp: 13971  
 Ion Ratio Lower Upper  
 248 100  
 250 208.8 77.6 116.4#  
 141 621.5 63.9 95.9#

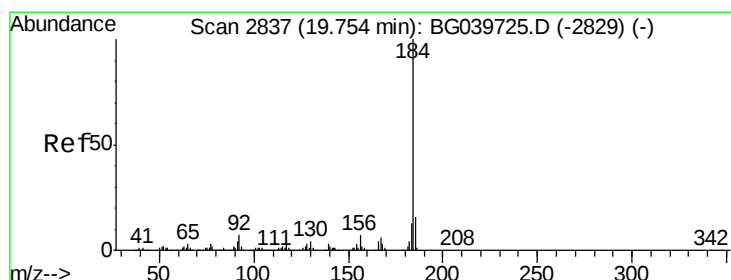
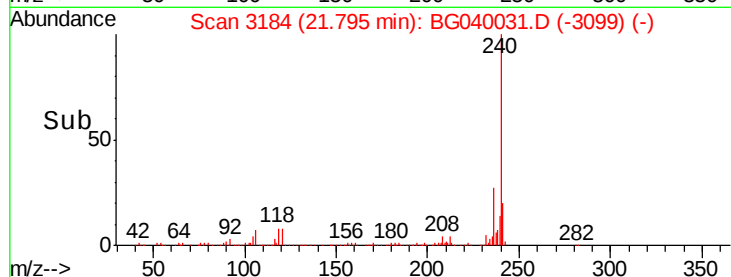
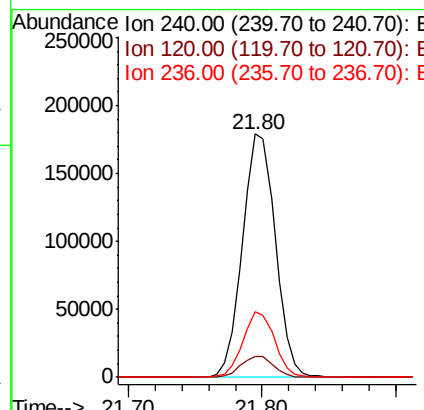
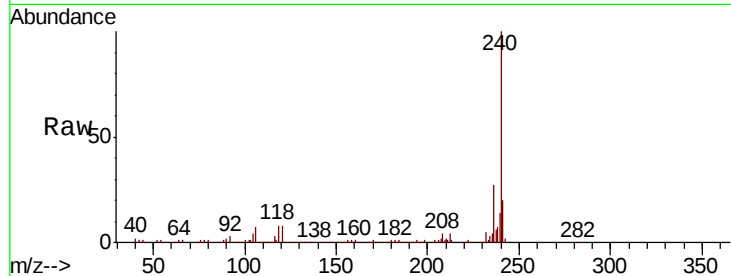




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.80 min Scan# 3184  
Delta R.T. -0.03 min  
Lab File: BG040031.D  
Acq: 20 Mar 2019 9:53

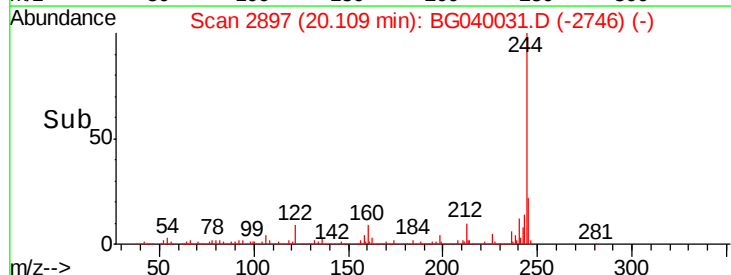
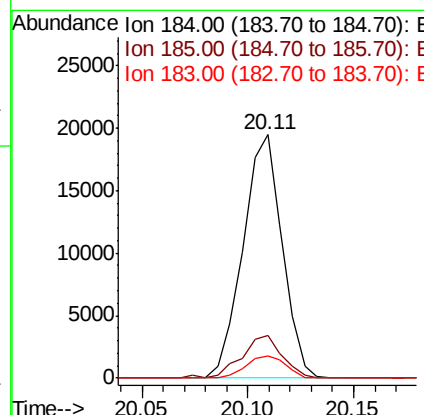
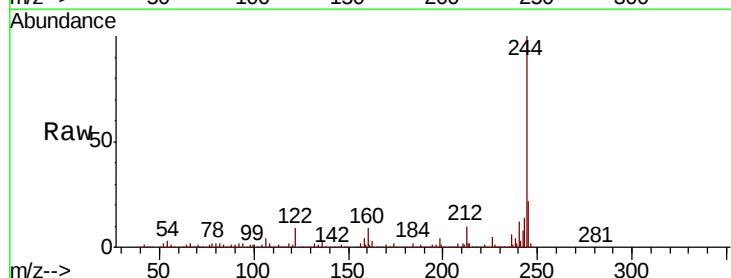
Instrument :  
BNA\_G  
ClientSampleId :  
TP-7

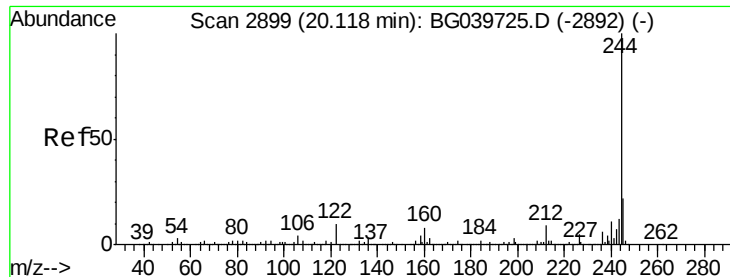
Tot Ion:240 Resp: 305416  
Ion Ratio Lower Upper  
240 100  
120 8.4 7.0 10.6  
236 26.8 21.0 31.4



#77  
Benzidine  
Concen: 2.584 ng  
RT: 20.11 min Scan# 2897  
Delta R.T. 0.35 min  
Lab File: BG040031.D  
Acq: 20 Mar 2019 9:53

Tgt Ion:184 Resp: 25043  
Ion Ratio Lower Upper  
184 100  
185 17.6 12.2 18.2  
183 9.2 10.6 15.8#





#79

Terphenyl-d14

Concen: 94.480 ng

RT: 20.11 min Scan# 2897

Delta R.T. -0.02 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

Instrument :

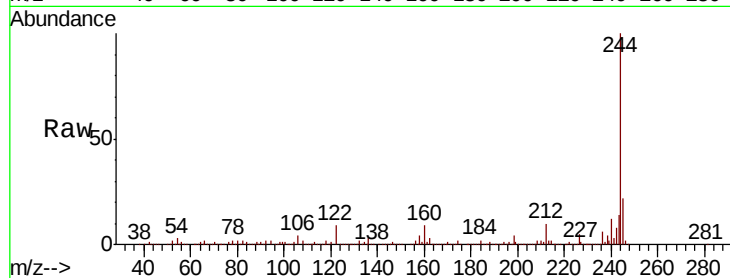
BNA\_G

ClientSampleId :

TP-7

Tot Ion:244 Resp: 1310548

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.7   | 7.3   | 10.9  |
| 122 | 9.3   | 8.4   | 12.6  |

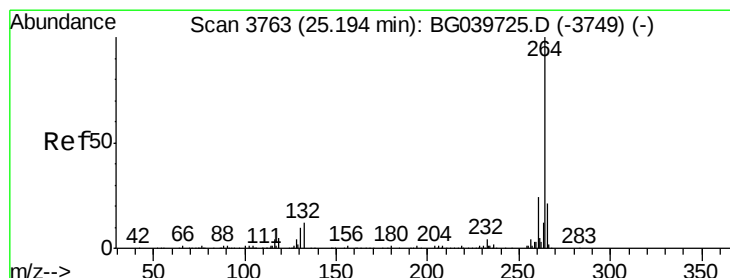
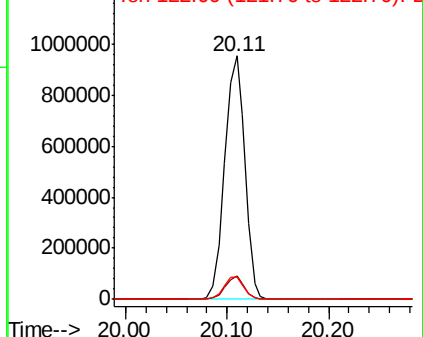
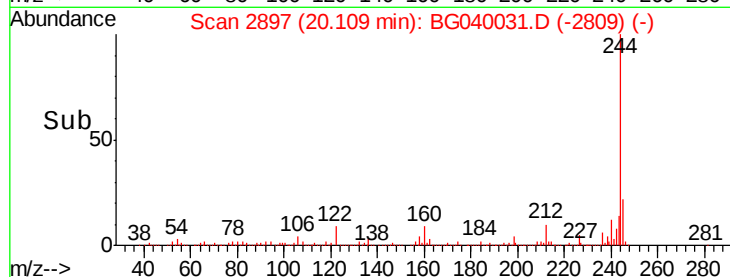


Abundance

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: 25.16 min Scan# 3756

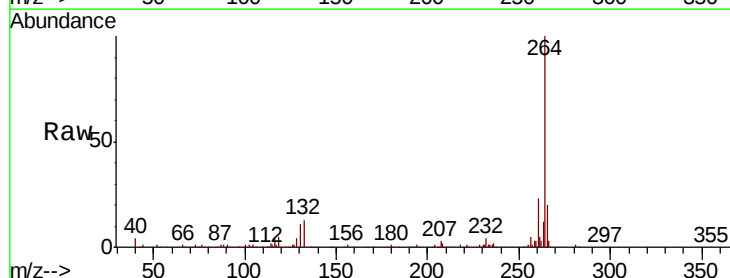
Delta R.T. -0.04 min

Lab File: BG040031.D

Acq: 20 Mar 2019 9:53

Tgt Ion:264 Resp: 304300

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.9  | 18.2  | 27.4  |
| 265 | 19.8  | 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

