

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG022619\  
 Data File : BG039619.D  
 Acq On : 27 Feb 2019 3:59  
 Operator : JU/SJ  
 Sample : K1597-02  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-25

Quant Time: Feb 27 06:36:18 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

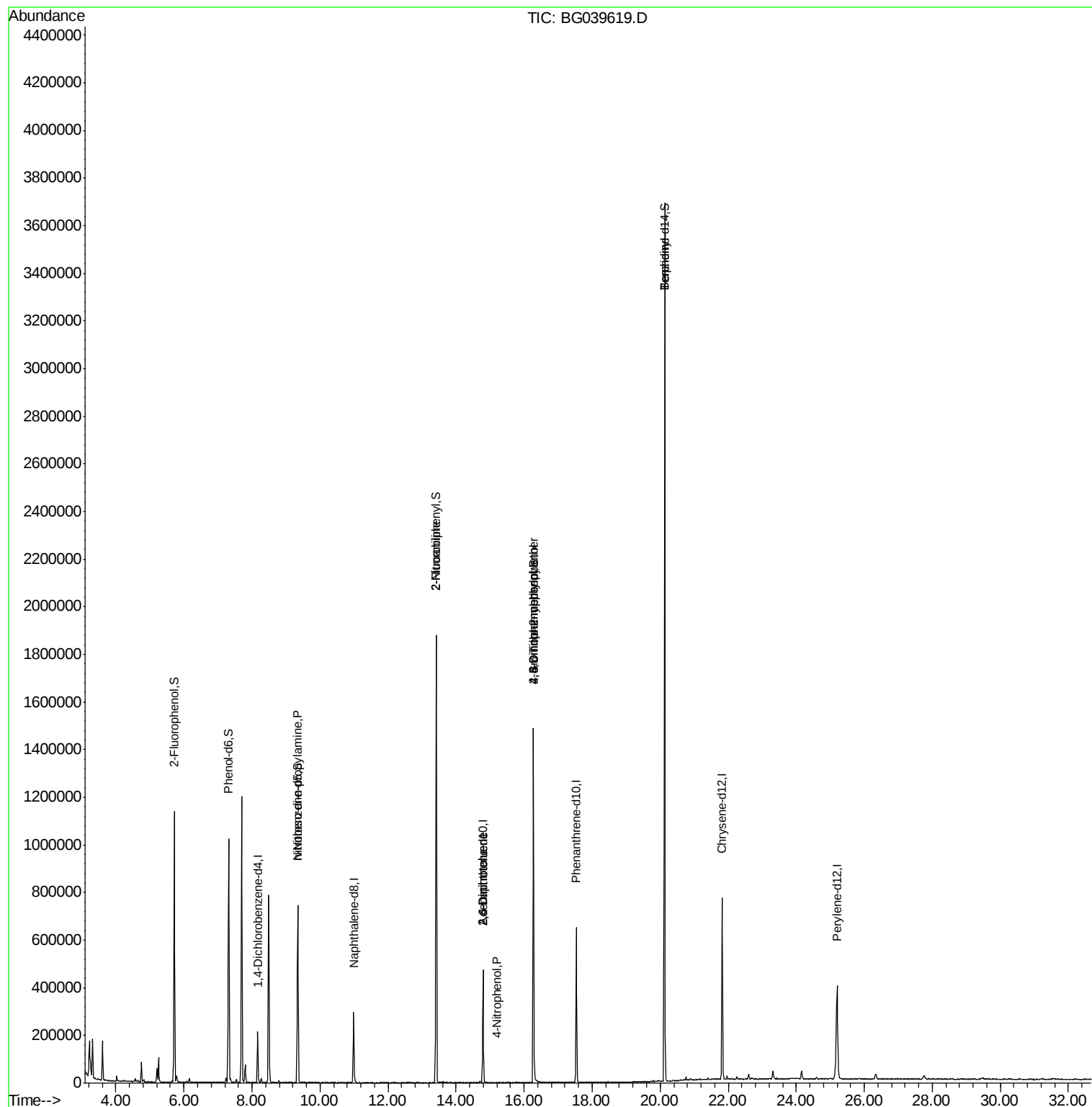
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.16  | 152  | 60131    | 20.00     | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.99 | 136  | 252770   | 20.00     | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.79 | 164  | 164707   | 20.00     | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.53 | 188  | 408492   | 20.00     | ng    | -0.02    |
| 76) Chrysene-d12               | 21.82 | 240  | 458503   | 20.00     | ng    | -0.03    |
| 87) Perylene-d12               | 25.20 | 264  | 457152   | 20.00     | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.71  | 112  | 468900   | 133.46    | ng    | 0.00     |
| 7) Phenol-d6                   | 7.32  | 99   | 598628   | 115.75    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.34  | 82   | 442828   | 109.44    | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.28 | 330  | 269621   | 152.02    | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.41 | 172  | 991913   | 86.39     | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.13 | 244  | 1729109  | 79.82     | ng    | -0.02    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 7.30  | 77   | 1062     | Below Cal |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 9.34  | 70   | 59038    | 16.084 ng | #     | 1        |
| 48) 2-Nitroaniline             | 13.41 | 65   | 1866     | 8.817 ng  | #     | 69       |
| 51) 2,6-Dinitrotoluene         | 14.79 | 165  | 20804    | 13.784 ng | #     | 9        |
| 56) 4-Nitrophenol              | 15.18 | 139  | 388      | 5.943 ng  | #     | 24       |
| 57) 2,4-Dinitrotoluene         | 14.79 | 165  | 20804    | 13.293 ng | #     | 1        |
| 65) 4,6-Dinitro-2-methylphenol | 16.28 | 198  | 1092     | 5.032 ng  | #     | 20       |
| 67) 4-Bromophenyl-phenylether  | 16.28 | 248  | 21326    | 4.706 ng  | #     | 1        |
| 77) Benzidine                  | 20.12 | 184  | 31946    | 2.125 ng  | #     | 1        |
| -----                          |       |      |          |           |       |          |

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

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Quant Time: Feb 27 06:36:18 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.16 min Scan# 864

Delta R.T. -0.02 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

Instrument :

BNA\_G

ClientSampleId :

TP-25

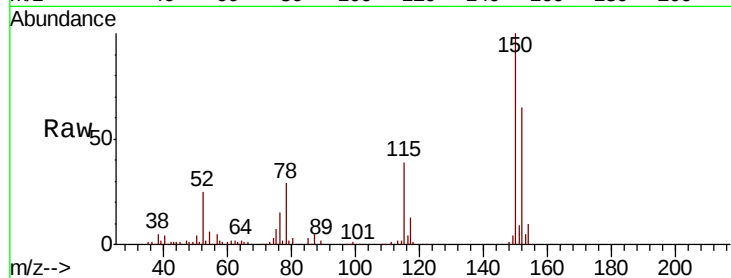
Tgt Ion:152 Resp: 60131

Ion Ratio Lower Upper

152 100

150 154.6 123.7 185.5

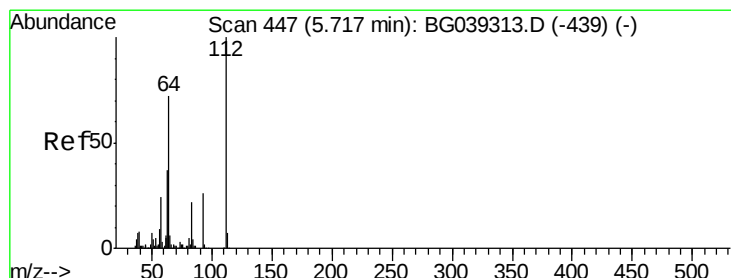
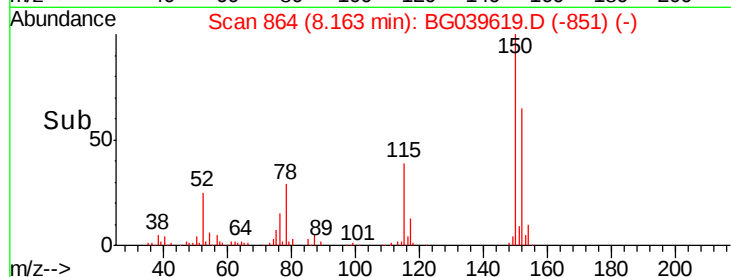
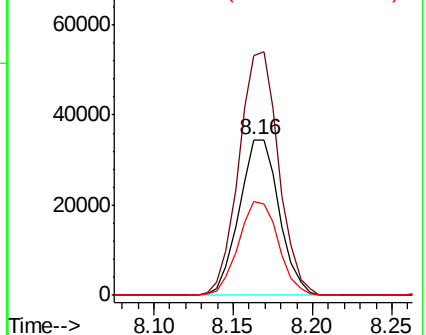
115 60.2 45.9 68.9



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: 133.463 ng

RT: 5.71 min Scan# 447

Delta R.T. -0.00 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

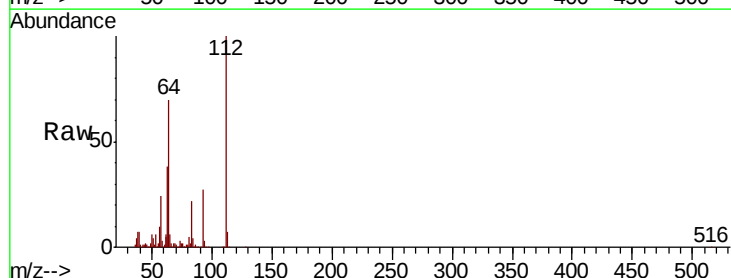
Tgt Ion:112 Resp: 468900

Ion Ratio Lower Upper

112 100

64 69.7 57.8 86.8

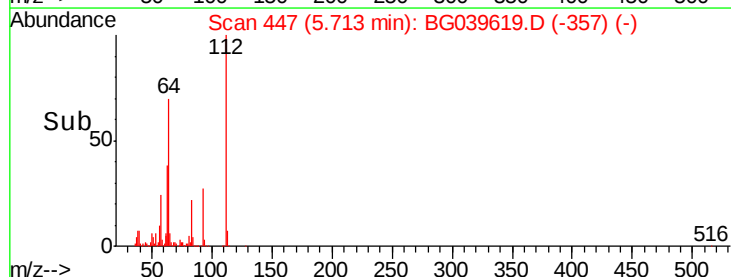
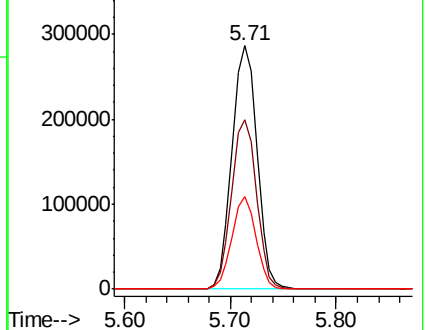
63 37.8 29.8 44.6



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: 115.755 ng

RT: 7.32 min Scan# 720

Delta R.T. -0.00 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

Instrument :

BNA\_G

ClientSampleId :

TP-25

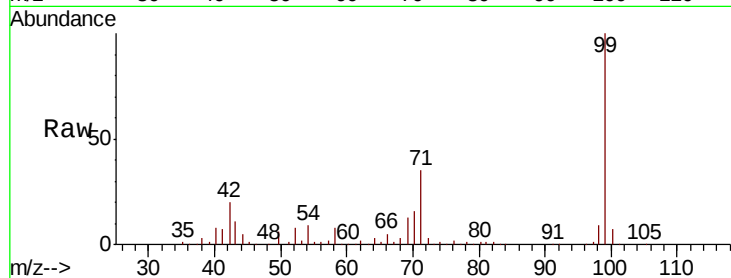
Tgt Ion: 99 Resp: 598628

Ion Ratio Lower Upper

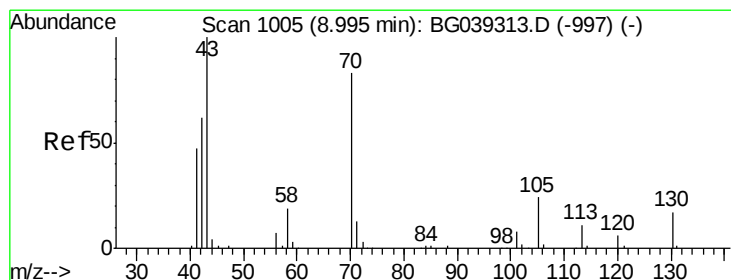
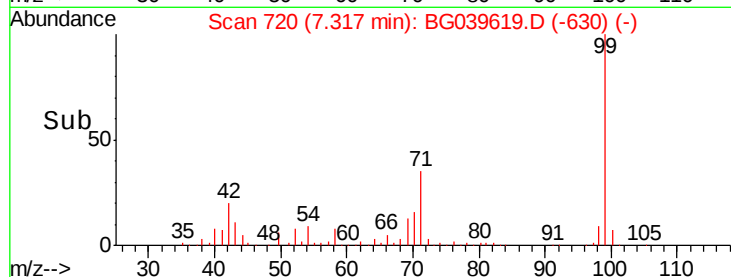
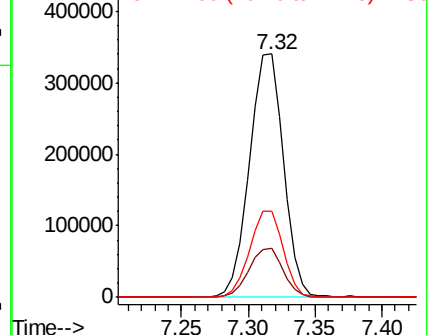
99 100

42 19.9 18.2 27.2

71 35.4 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: 16.084 ng

RT: 9.34 min Scan# 1065

Delta R.T. 0.35 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

Tgt Ion: 70 Resp: 59038

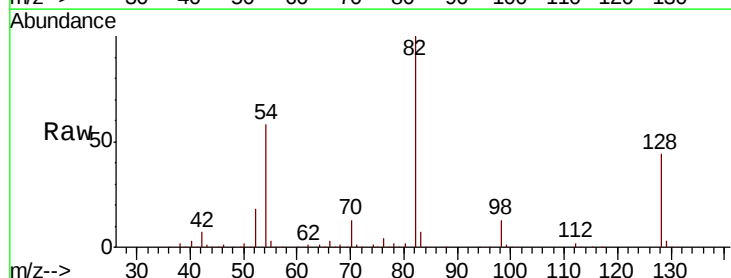
Ion Ratio Lower Upper

70 100

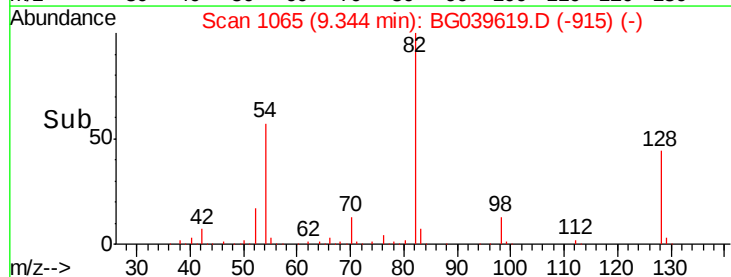
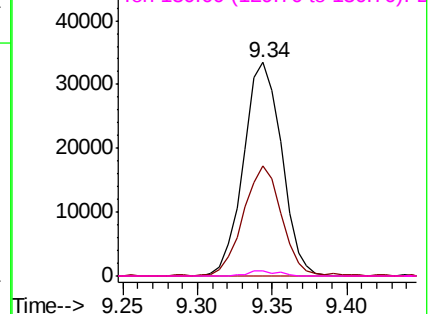
42 51.3 60.4 90.6#

101 0.0 7.5 11.3#

130 2.2 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

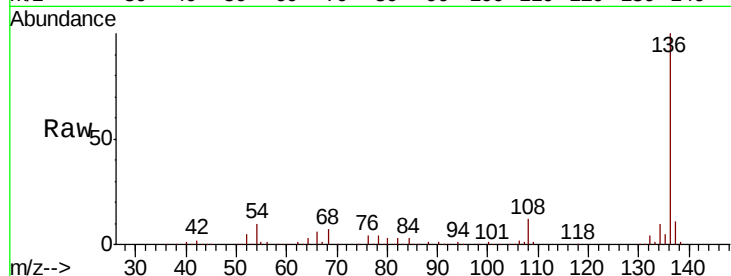




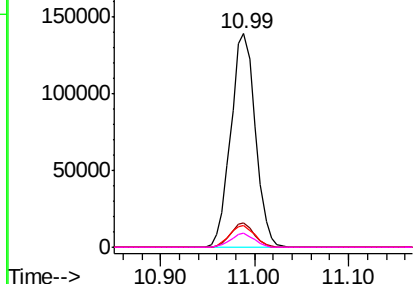
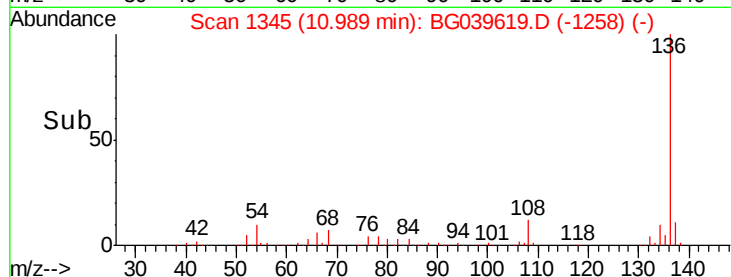
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1345  
Delta R.T. -0.02 min  
Lab File: BG039619.D  
Acq: 27 Feb 2019 3:59

Instrument :  
BNA\_G  
ClientSampleId :  
TP-25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 252770 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.1   | 13.7   |
| 54       | 10.1  | 9.4   | 14.2   |
| 68       | 6.8   | 4.2   | 6.4#   |

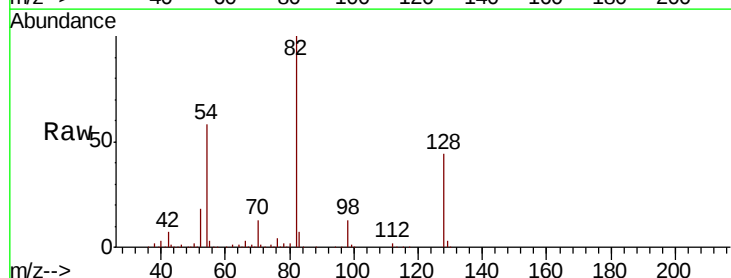


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

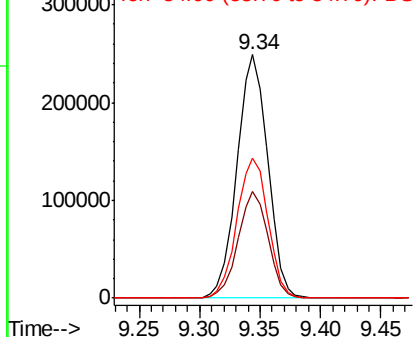
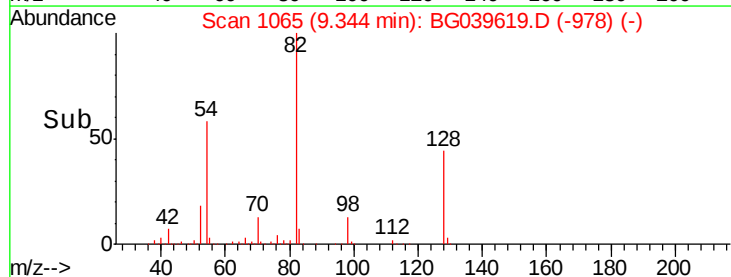


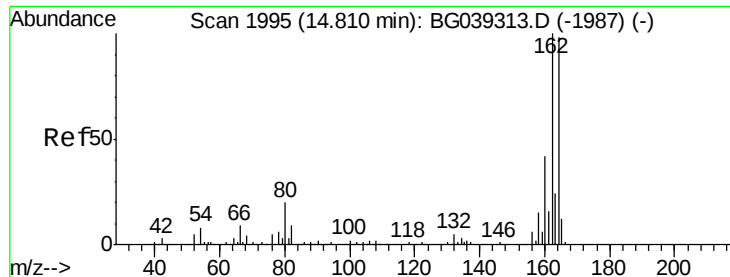
#23  
Nitrobenzene-d5  
Concen: 109.444 ng  
RT: 9.34 min Scan# 1065  
Delta R.T. -0.02 min  
Lab File: BG039619.D  
Acq: 27 Feb 2019 3:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 442828 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.9  | 31.3  | 46.9   |
| 54       | 57.6  | 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: 20.000 ng

RT: 14.79 min Scan# 1992

Delta R.T. -0.02 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

Instrument :

BNA\_G

ClientSampleId :

TP-25

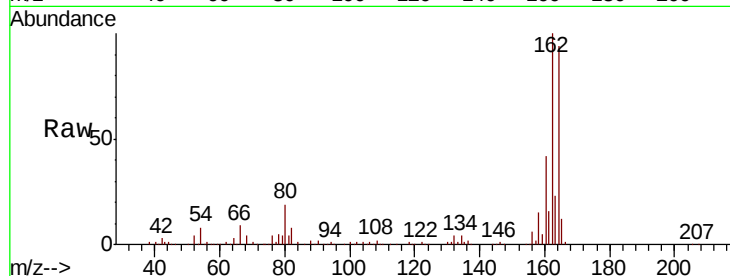
Tgt Ion:164 Resp: 164707

Ion Ratio Lower Upper

164 100

162 106.1 81.6 122.4

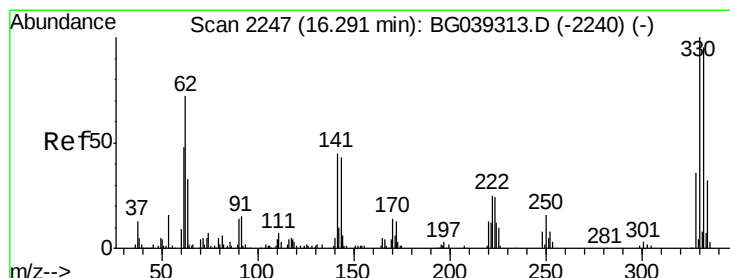
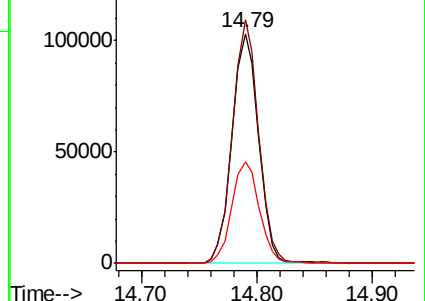
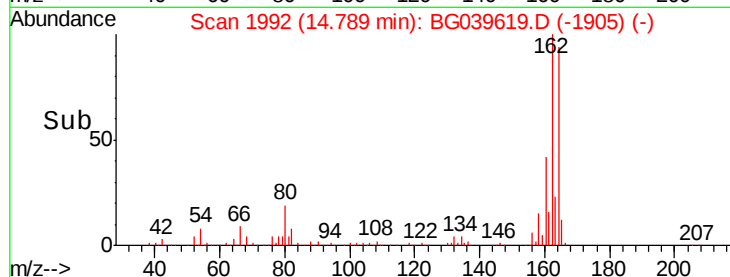
160 44.3 34.2 51.2



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: 152.018 ng

RT: 16.28 min Scan# 2245

Delta R.T. -0.02 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

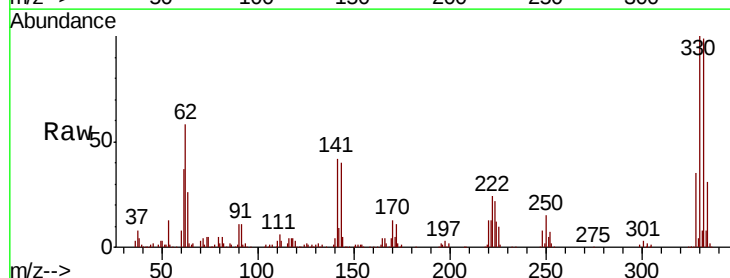
Tgt Ion:330 Resp: 269621

Ion Ratio Lower Upper

330 100

332 95.9 75.7 113.5

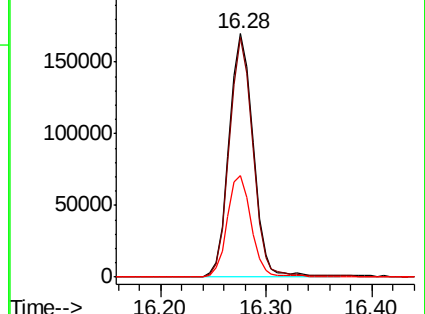
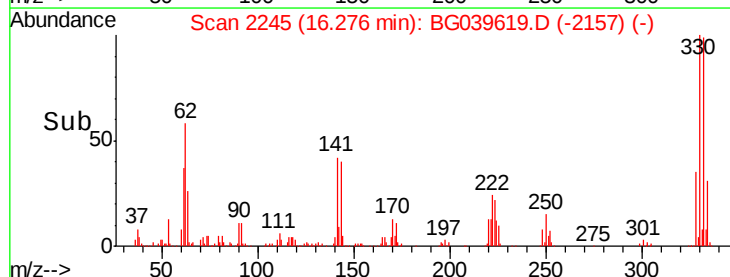
141 41.5 35.6 53.4

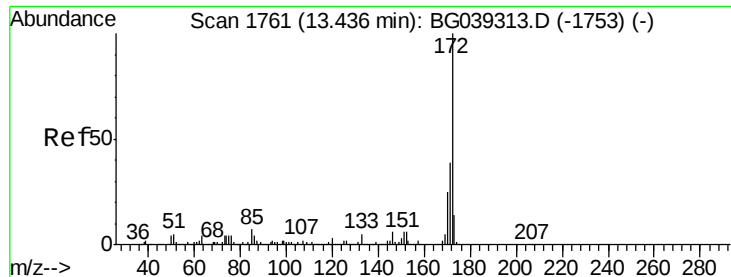


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 86.393 ng

RT: 13.41 min Scan# 1758

Delta R.T. -0.02 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

Instrument :

BNA\_G

ClientSampleId :

TP-25

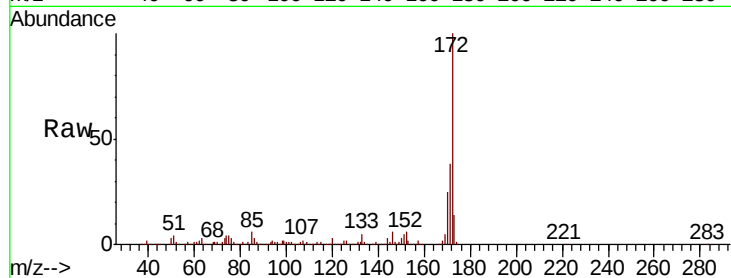
Tgt Ion: 172 Resp: 991913

Ion Ratio Lower Upper

172 100

171 38.4 30.8 46.2

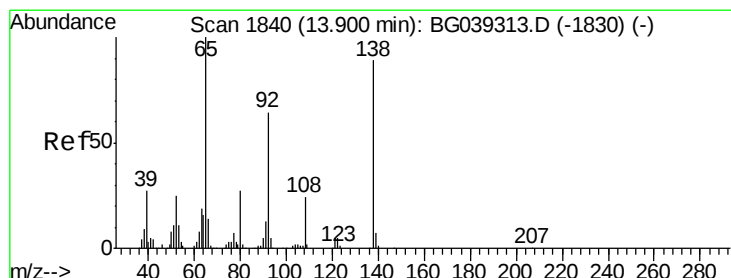
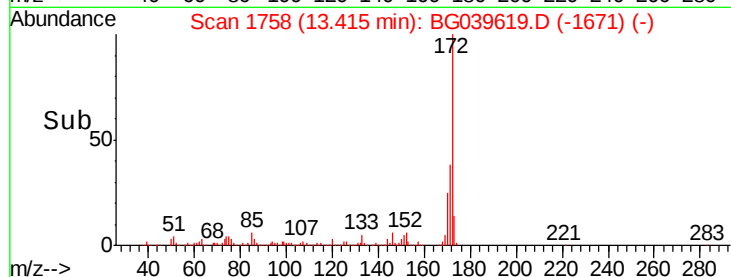
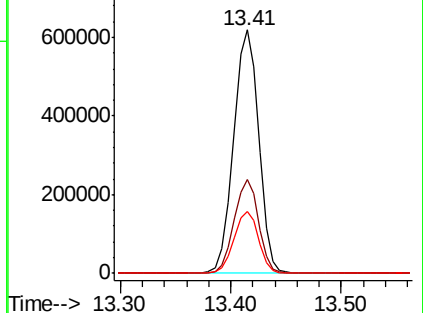
170 25.3 20.2 30.4



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: 8.817 ng

RT: 13.41 min Scan# 1758

Delta R.T. -0.48 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

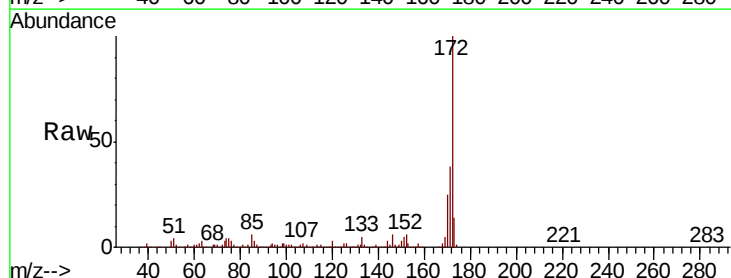
Tgt Ion: 65 Resp: 1866

Ion Ratio Lower Upper

65 100

92 150.2 51.4 77.2#

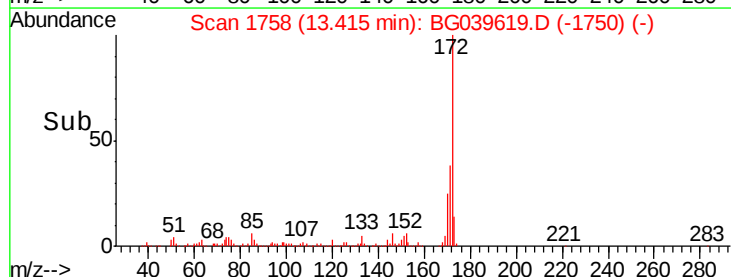
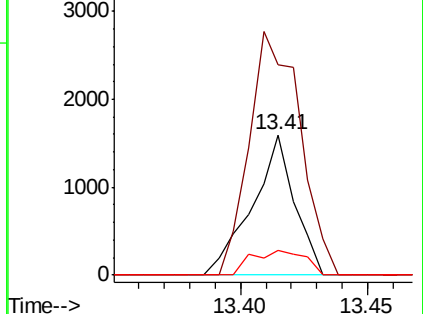
138 17.2 71.4 107.2#



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: 13.784 ng

RT: 14.79 min Scan# 1992

Delta R.T. 0.40 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

Instrument :

BNA\_G

ClientSampleId :

TP-25

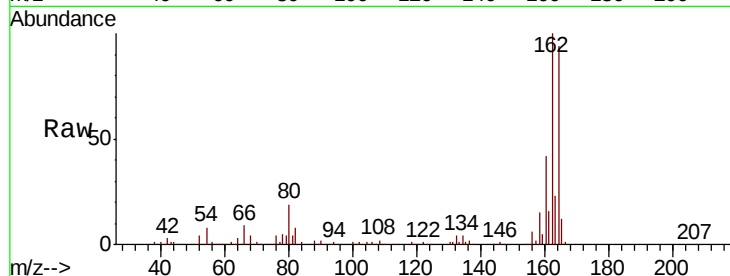
Tgt Ion:165 Resp: 20804

Ion Ratio Lower Upper

165 100

63 2.2 47.0 70.6#

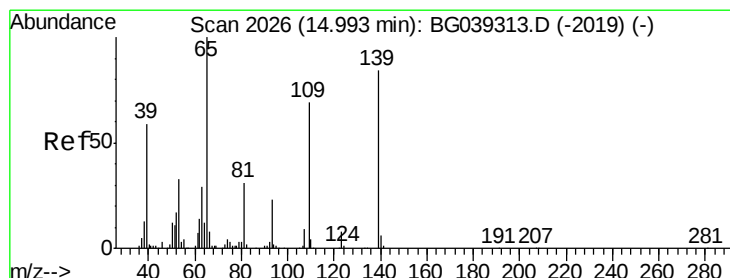
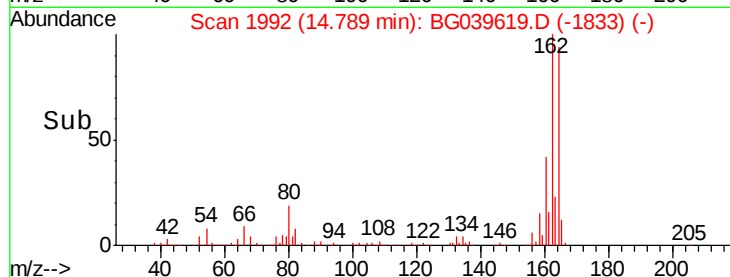
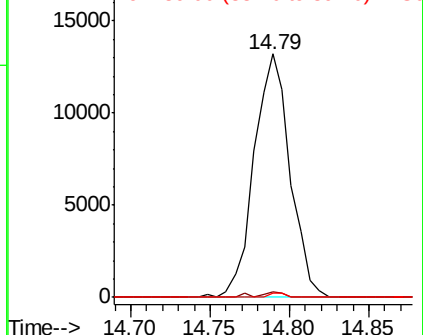
89 1.7 45.8 68.8#



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



#56

4-Nitrophenol

Concen: 5.943 ng

RT: 15.18 min Scan# 2059

Delta R.T. 0.19 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

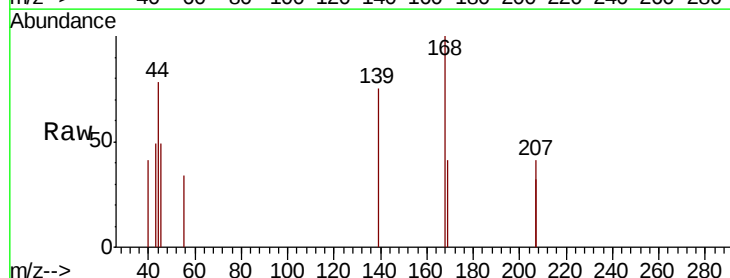
Tgt Ion:139 Resp: 388

Ion Ratio Lower Upper

139 100

109 0.0 61.9 101.9#

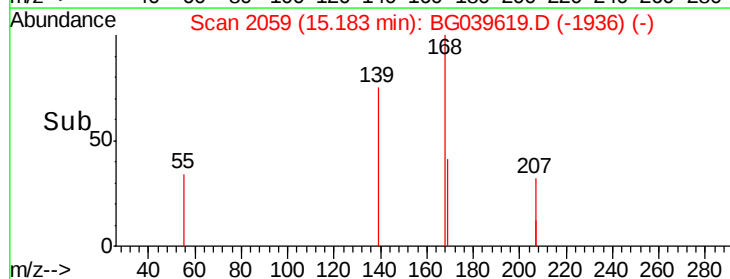
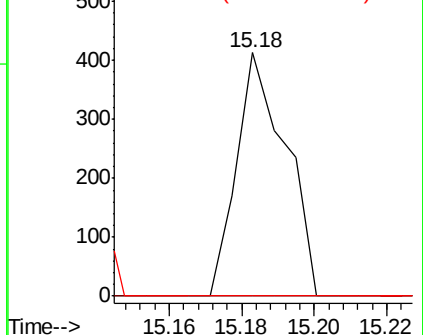
65 0.0 99.1 139.1#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BG

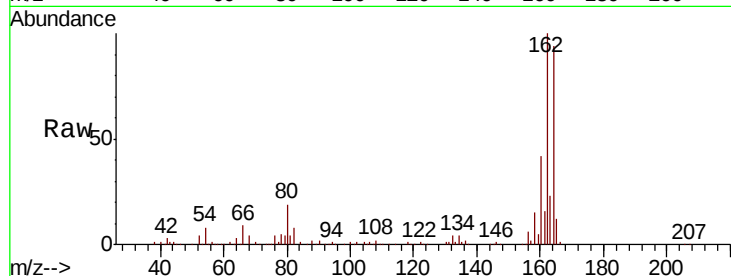




#57  
 2,4-Dinitrotoluene  
 Concen: 13.293 ng  
 RT: 14.79 min Scan# 1992  
 Delta R.T. -0.37 min  
 Lab File: BG039619.D  
 Acq: 27 Feb 2019 3:59

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.2   | 41.0  | 61.6# |
| 89      | 1.7   | 64.6  | 96.8# |
| 182     | 0.0   | 2.0   | 3.0#  |

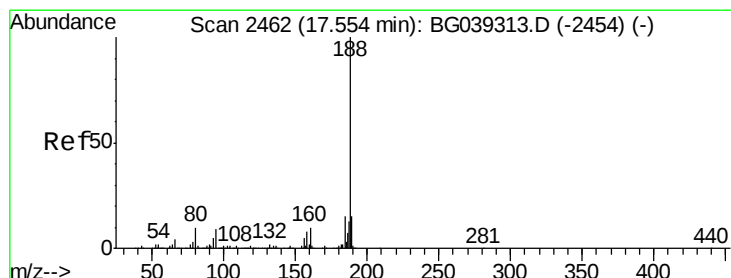
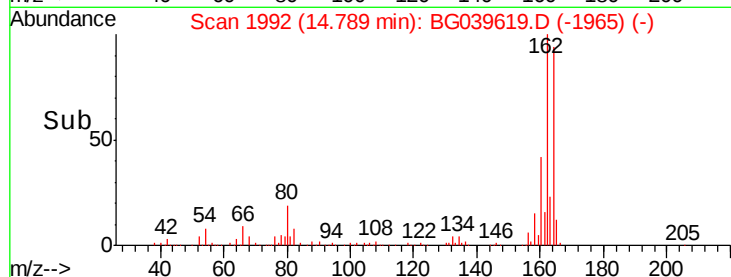
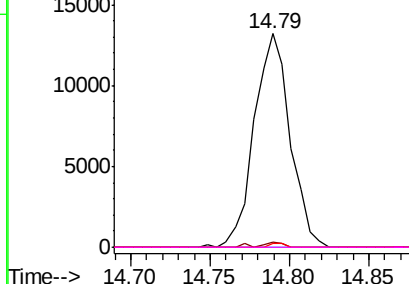


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

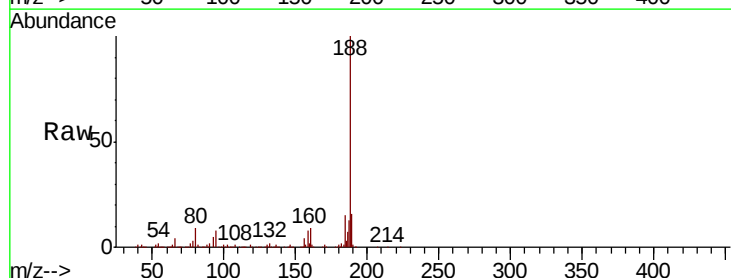
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.53 min Scan# 2459  
 Delta R.T. -0.02 min  
 Lab File: BG039619.D  
 Acq: 27 Feb 2019 3:59

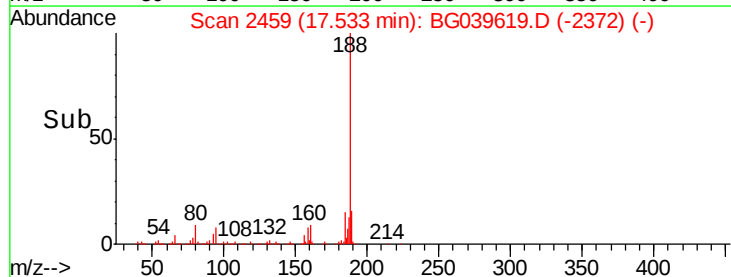
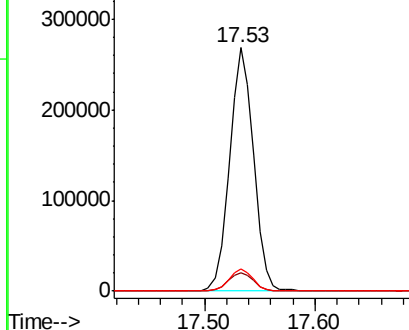
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.7   | 6.9   | 10.3  |
| 80      | 9.1   | 8.1   | 12.1  |

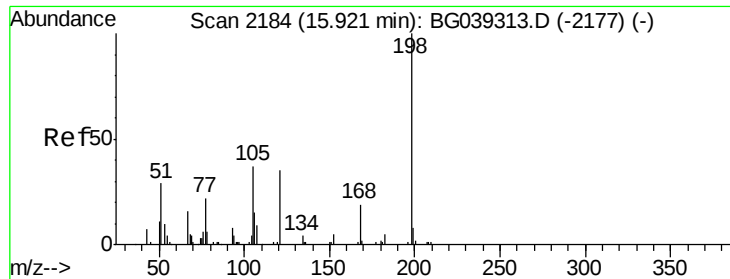


Abundance Ion 188.00 (187.70 to 188.70): E

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: 5.032 ng

RT: 16.28 min Scan# 2246

Delta R.T. 0.36 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

Instrument :

BNA\_G

ClientSampled :

TP-25

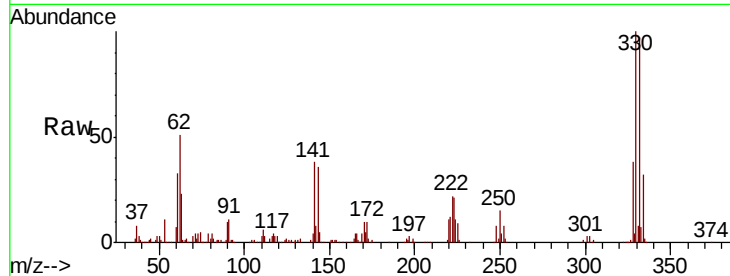
Tgt Ion:198 Resp: 1092

Ion Ratio Lower Upper

198 100

51 141.1 27.4 67.4#

105 97.5 19.7 59.7#

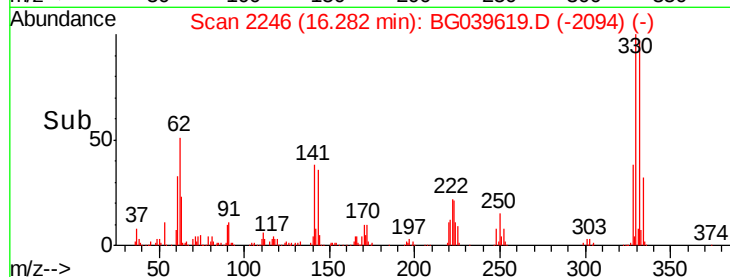


Abundance Ion 198.00 (197.70 to 198.70): E

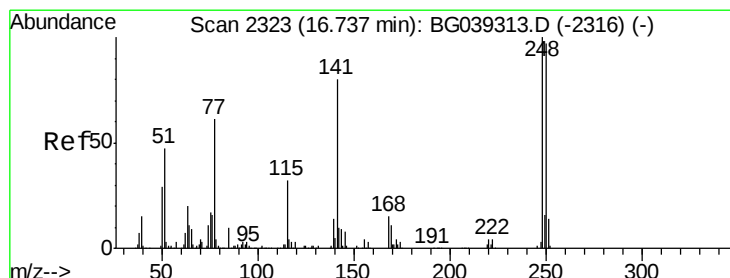
Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

16.28



Time-->



#67

4-Bromophenyl-phenylether

Concen: 4.706 ng

RT: 16.28 min Scan# 2245

Delta R.T. -0.46 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

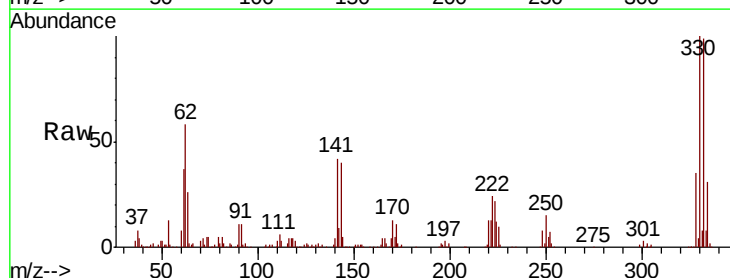
Tgt Ion:248 Resp: 21326

Ion Ratio Lower Upper

248 100

250 185.4 77.6 116.4#

141 510.9 63.9 95.9#

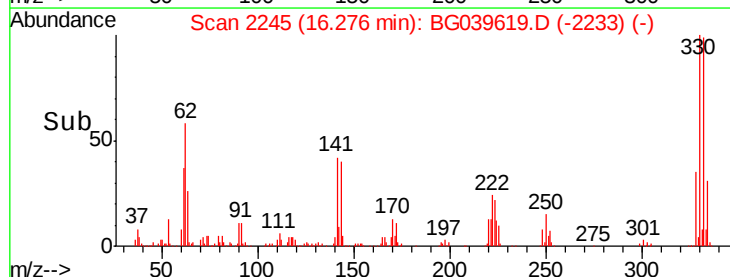


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

16.28



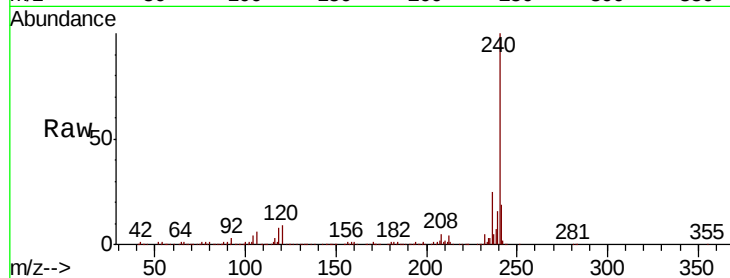
Time-->



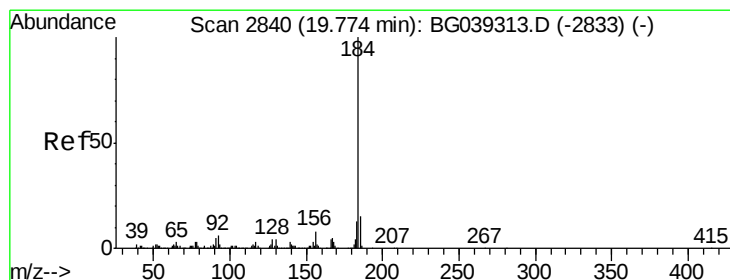
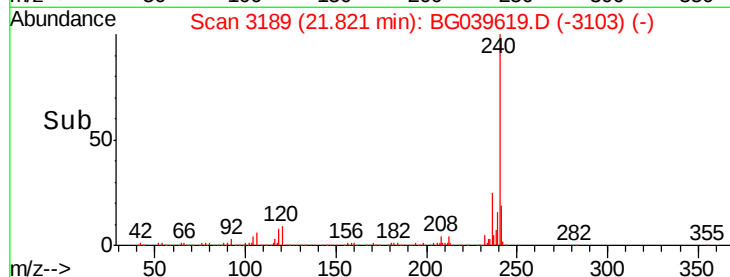
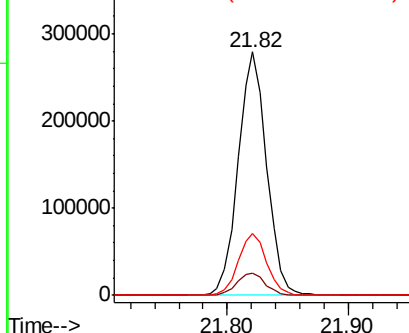
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.82 min Scan# 3189  
 Delta R.T. -0.03 min  
 Lab File: BG039619.D  
 Acq: 27 Feb 2019 3:59

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-25

Tgt Ion:240 Resp: 458503  
 Ion Ratio Lower Upper  
 240 100  
 120 9.0 7.0 10.6  
 236 25.2 21.0 31.4

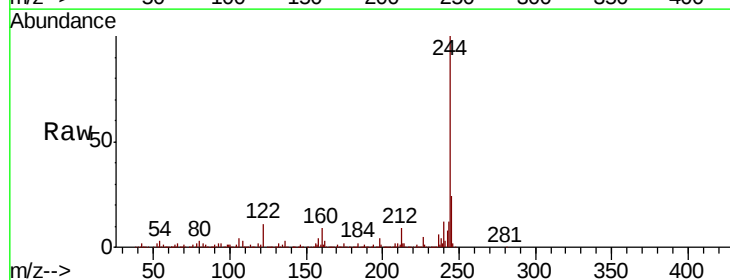


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

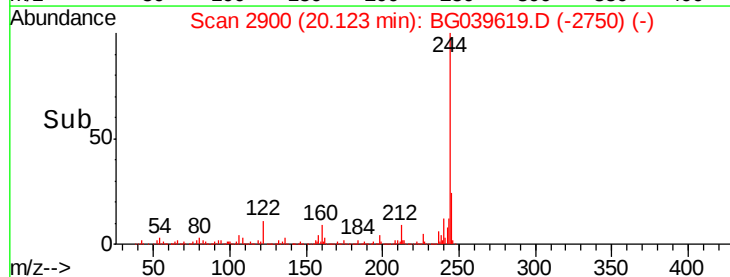
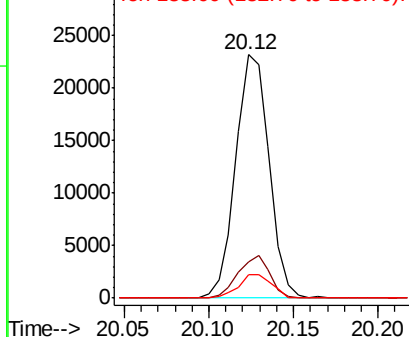


#77  
 Benzidine  
 Concen: 2.125 ng  
 RT: 20.12 min Scan# 2900  
 Delta R.T. 0.35 min  
 Lab File: BG039619.D  
 Acq: 27 Feb 2019 3:59

Tgt Ion:184 Resp: 31946  
 Ion Ratio Lower Upper  
 184 100  
 185 14.8 12.2 18.2  
 183 9.5 10.6 15.8#



Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 185.00 (184.70 to 185.70): E  
 Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 79.825 ng

RT: 20.13 min Scan# 2901

Delta R.T. -0.02 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

Instrument :

BNA\_G

ClientSampleId :

TP-25

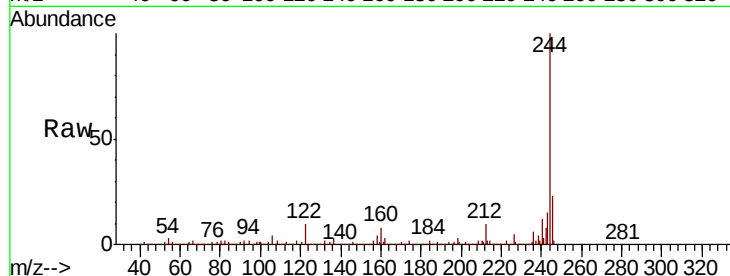
Tgt Ion:244 Resp: 1729109

Ion Ratio Lower Upper

244 100

212 9.8 7.3 10.9

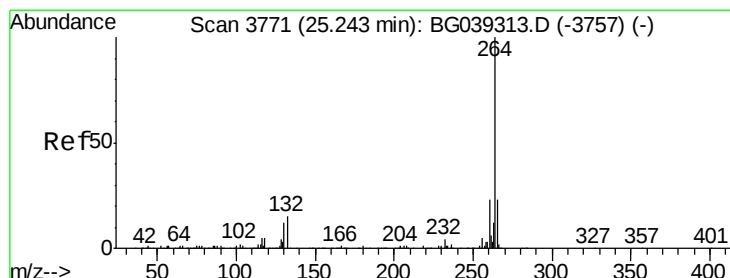
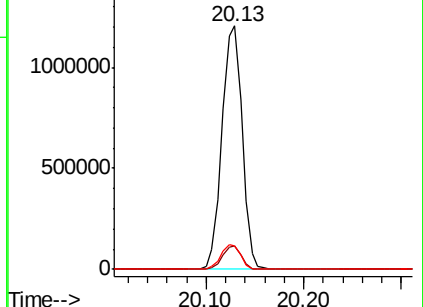
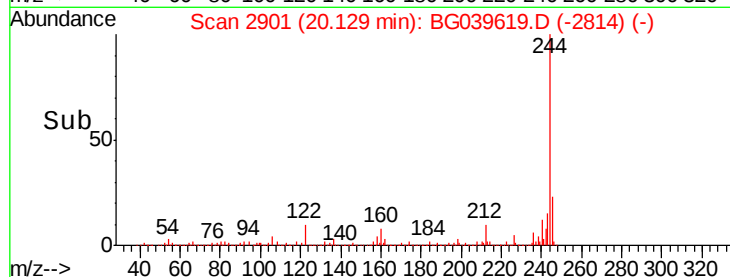
122 9.6 8.4 12.6



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: 25.20 min Scan# 3764

Delta R.T. -0.04 min

Lab File: BG039619.D

Acq: 27 Feb 2019 3:59

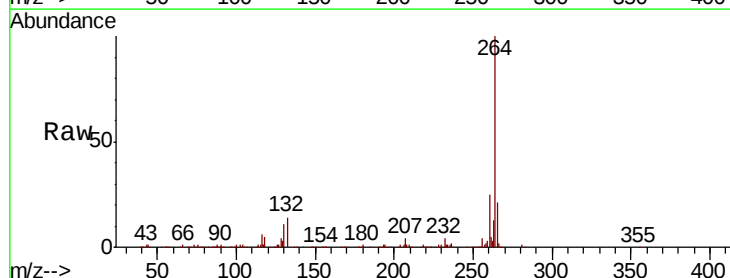
Tgt Ion:264 Resp: 457152

Ion Ratio Lower Upper

264 100

260 24.5 18.2 27.4

265 21.2 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

