

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031319\  
 Data File : BG039907.D  
 Acq On : 13 Mar 2019 18:04  
 Operator : JU/SJ  
 Sample : PB117884BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Mar 14 04:18:58 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

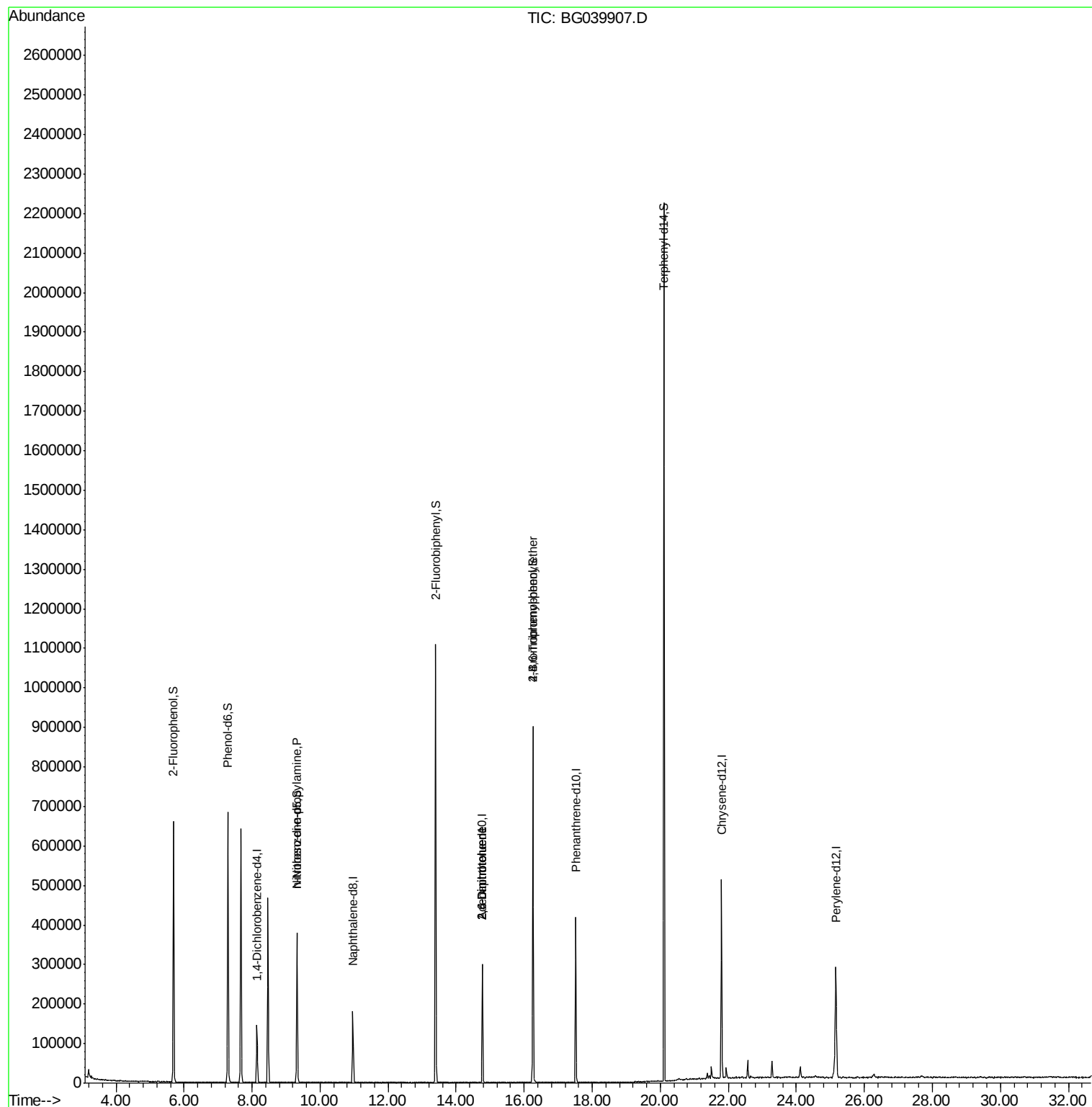
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.14  | 152  | 38349    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 10.97 | 136  | 156805   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.77 | 164  | 104018   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.51 | 188  | 266888   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.80 | 240  | 302315   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 25.16 | 264  | 300002   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.69  | 112  | 271136   | 120.62 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.29  | 99   | 377551   | 112.64 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.32  | 82   | 225606   | 77.81  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.26 | 330  | 151996   | 125.37 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.40 | 172  | 570387   | 78.08  | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.11 | 244  | 1028612  | 74.92  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.32  | 70   | 29522    | 12.237 | ng    | # 70     |
| 51) 2,6-Dinitrotoluene         | 14.77 | 165  | 13575    | 7.362  | ng    | # 24     |
| 57) 2,4-Dinitrotoluene         | 14.77 | 165  | 13575    | 5.239  | ng    | # 19     |
| 67) 4-Bromophenyl-phenylether  | 16.26 | 248  | 11841    | 3.964  | ng    | # 1      |

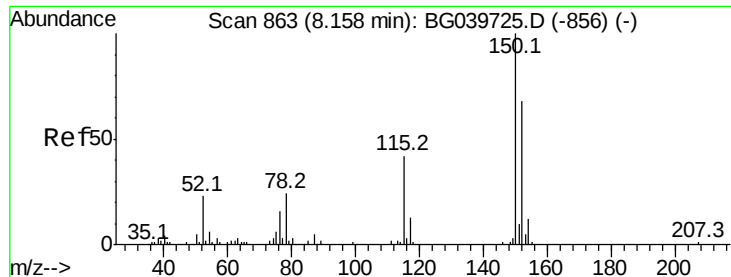
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031319\  
Data File : BG039907.D  
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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Mar 14 04:18:58 2019  
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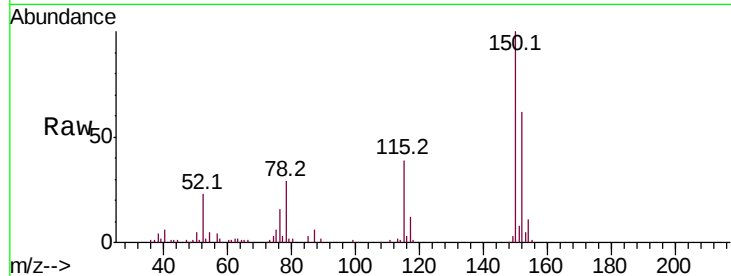


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.14 min Scan# 861  
Delta R.T. -0.03 min  
Lab File: BG039907.D  
Acq: 13 Mar 2019 18:04

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.2 | 123.7 | 185.5 |
| 115     | 63.5  | 45.9  | 68.9  |

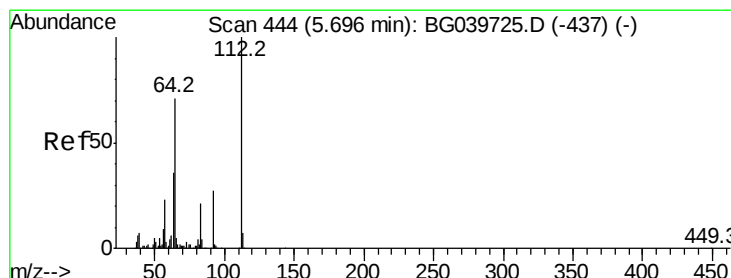
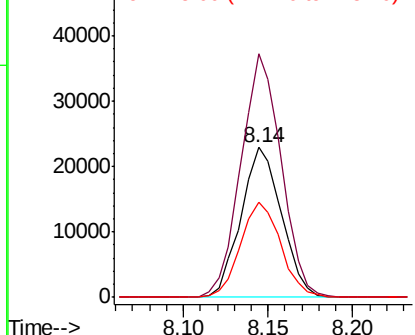
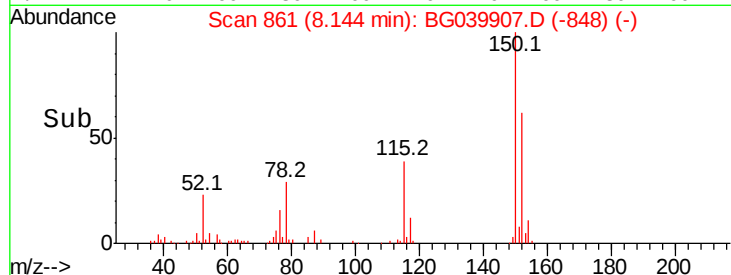


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

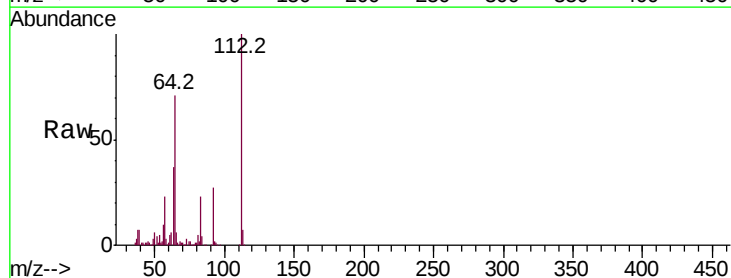
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 120.619 ng  
RT: 5.69 min Scan# 443  
Delta R.T. -0.02 min  
Lab File: BG039907.D  
Acq: 13 Mar 2019 18:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.9  | 57.8  | 86.8  |
| 63      | 36.9  | 29.8  | 44.6  |

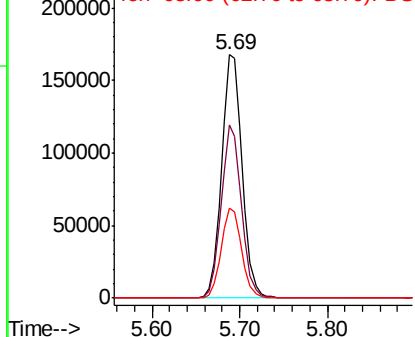
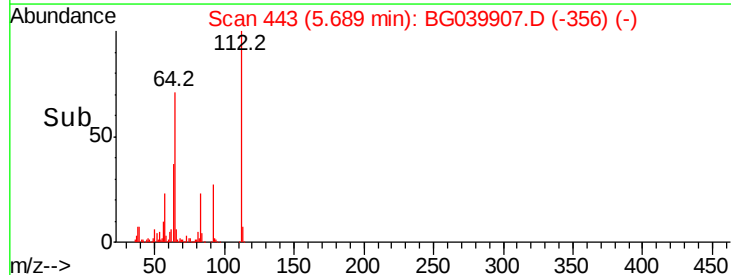


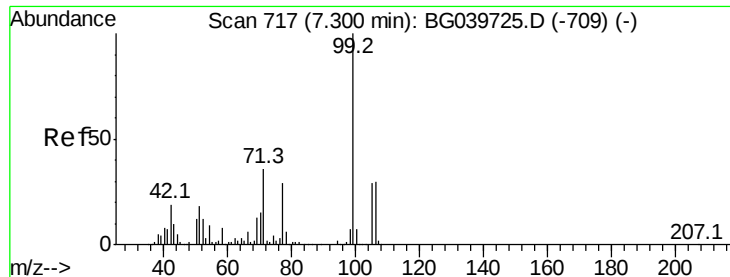
Abundance

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: 112.644 ng

RT: 7.29 min Scan# 716

Delta R.T. -0.02 min

Lab File: BG039907.D

Acq: 13 Mar 2019 18:04

Instrument :

BNA\_G

ClientSampleId :

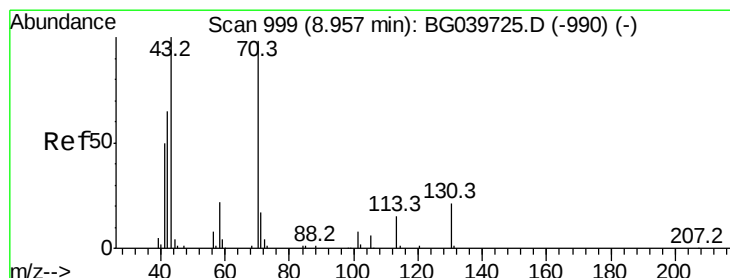
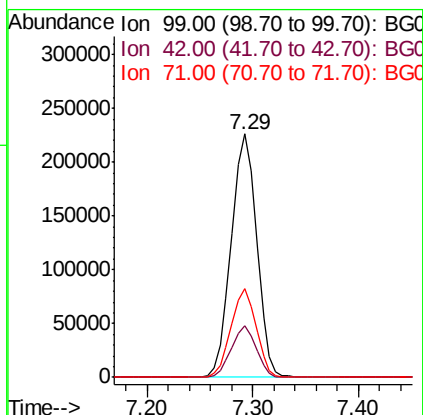
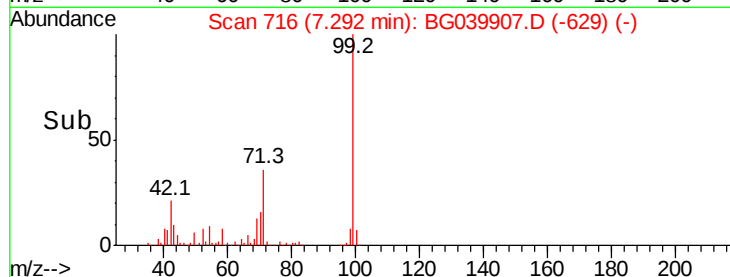
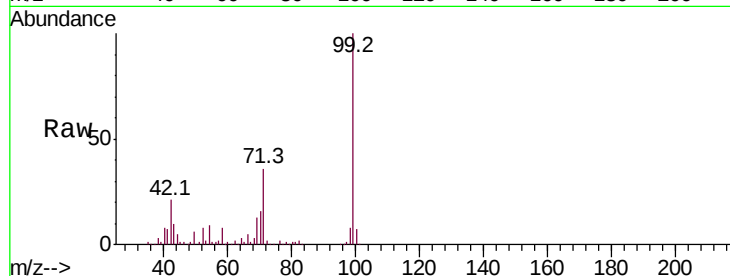
Tot Ion: 99 Resp: 377551

Ion Ratio Lower Upper

99 100

42 21.2 18.2 27.2

71 36.3 28.0 42.0



#19

n-Nitroso-di-n-propylamine

Concen: 12.237 ng

RT: 9.32 min Scan# 1062

Delta R.T. 0.36 min

Lab File: BG039907.D

Acq: 13 Mar 2019 18:04

Tgt Ion: 70 Resp: 29522

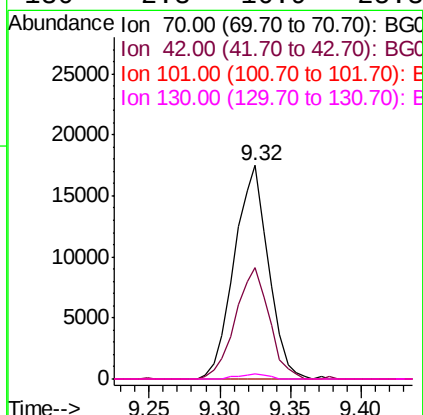
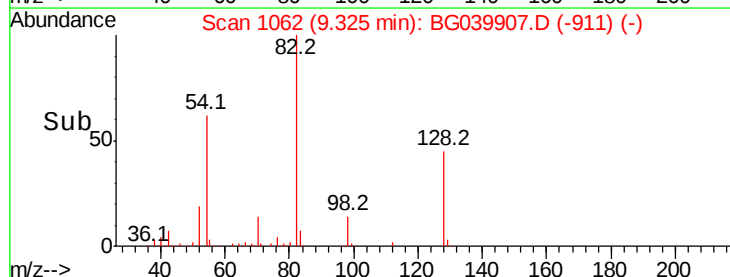
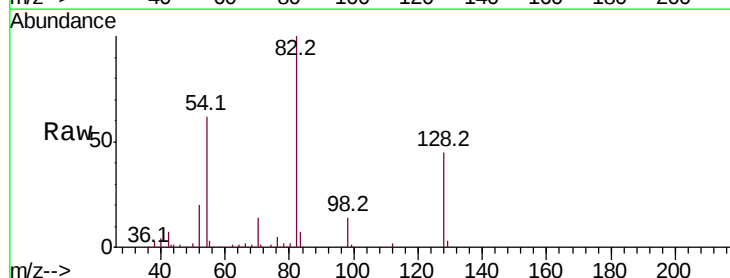
Ion Ratio Lower Upper

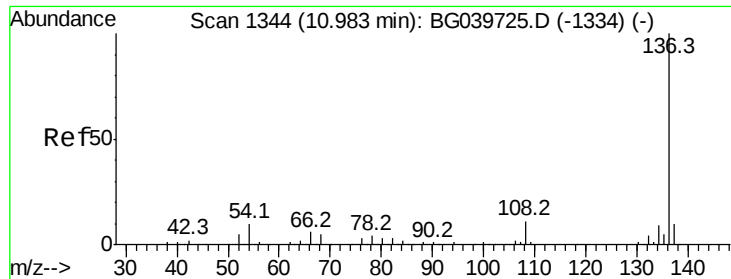
70 100

42 52.0 60.4 90.6#

101 0.0 7.5 11.3#

130 2.3 16.9 25.3#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.97 min Scan# 1342

Delta R.T. -0.02 min

Lab File: BG039907.D

Acq: 13 Mar 2019 18:04

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 156805

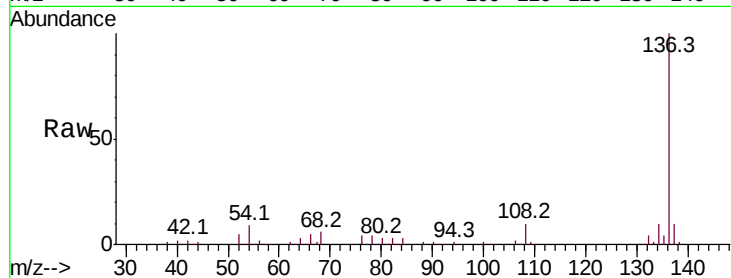
Ion Ratio Lower Upper

136 100

137 10.1 9.1 13.7

54 9.5 9.4 14.2

68 6.0 4.2 6.4

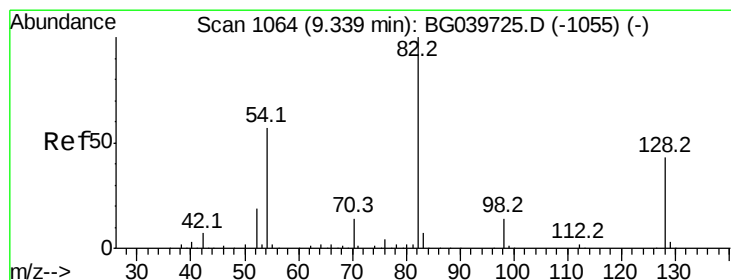
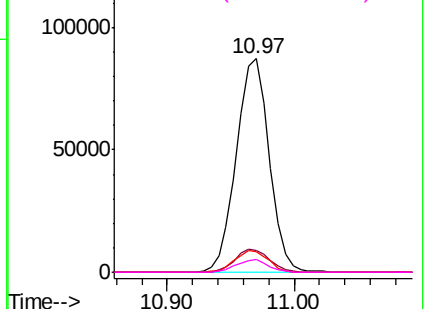
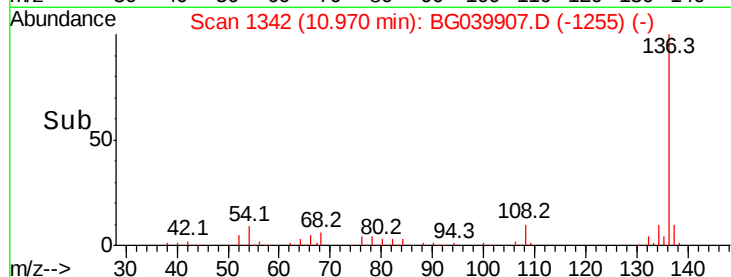


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 77.814 ng

RT: 9.32 min Scan# 1062

Delta R.T. -0.02 min

Lab File: BG039907.D

Acq: 13 Mar 2019 18:04

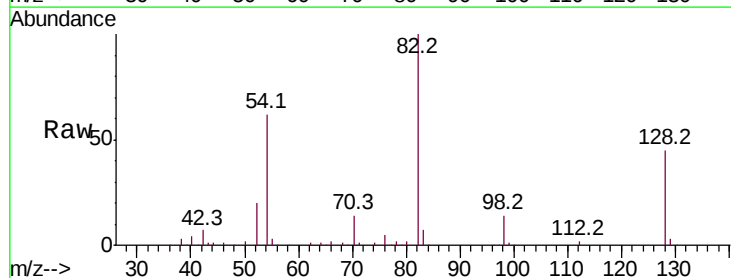
Tgt Ion: 82 Resp: 225606

Ion Ratio Lower Upper

82 100

128 45.3 31.3 46.9

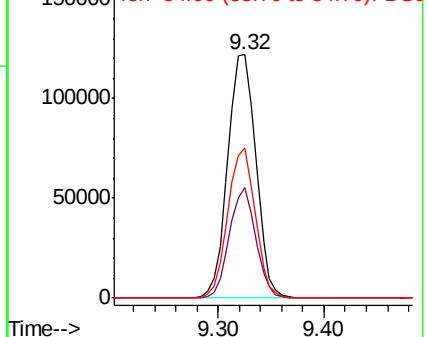
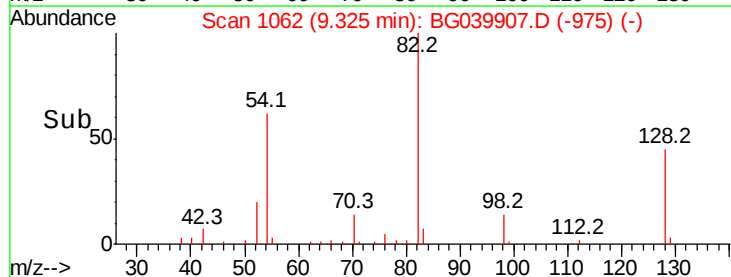
54 61.8 50.9 76.3

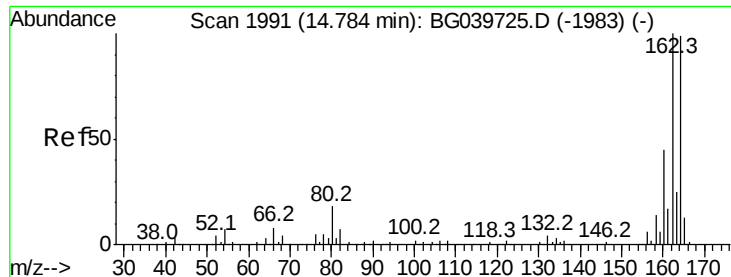


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.77 min Scan# 1989

Delta R.T. -0.02 min

Lab File: BG039907.D

Acq: 13 Mar 2019 18:04

Instrument :

BNA\_G

ClientSampleId :

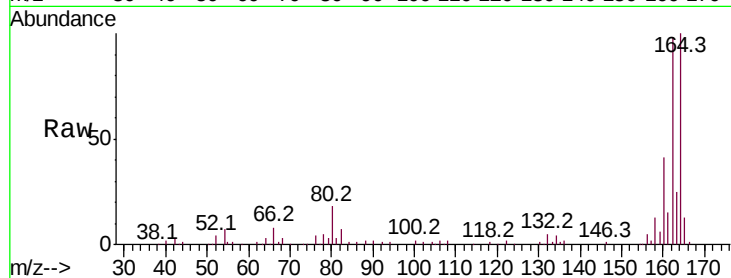
Tot Ion:164 Resp: 104018

Ion Ratio Lower Upper

164 100

162 97.9 81.6 122.4

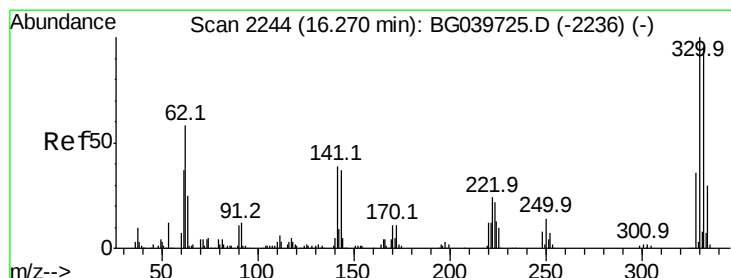
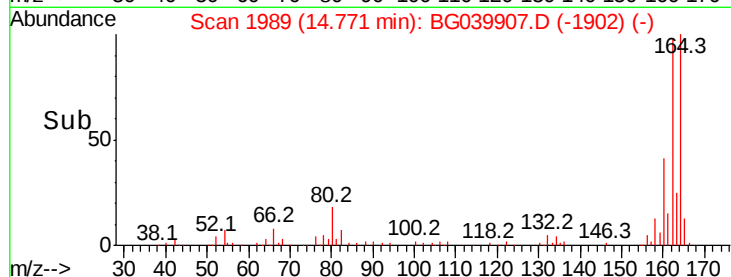
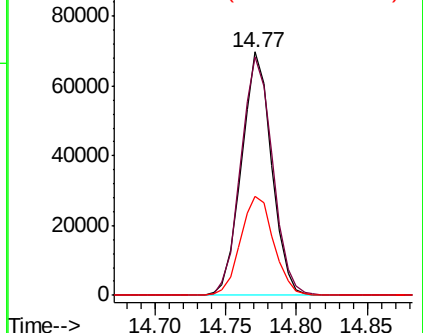
160 40.7 34.2 51.2



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: 125.367 ng

RT: 16.26 min Scan# 2242

Delta R.T. -0.02 min

Lab File: BG039907.D

Acq: 13 Mar 2019 18:04

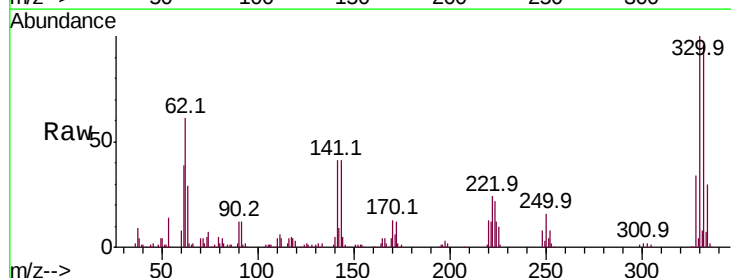
Tgt Ion:330 Resp: 151996

Ion Ratio Lower Upper

330 100

332 96.3 75.7 113.5

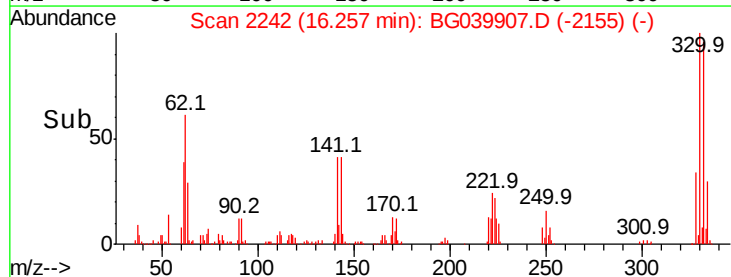
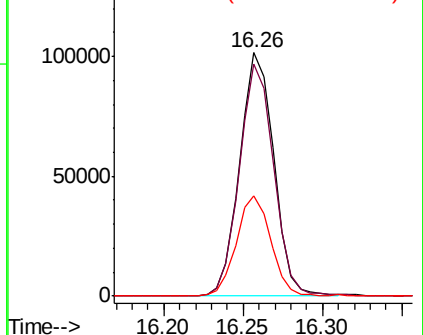
141 41.4 35.6 53.4

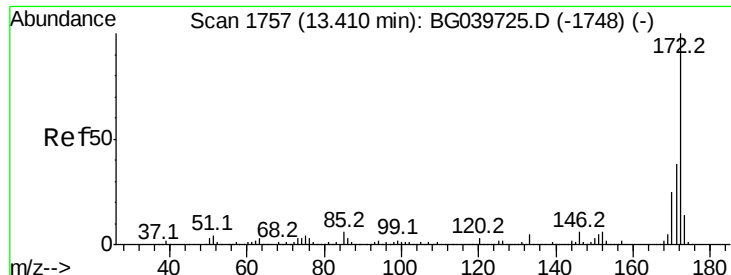


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

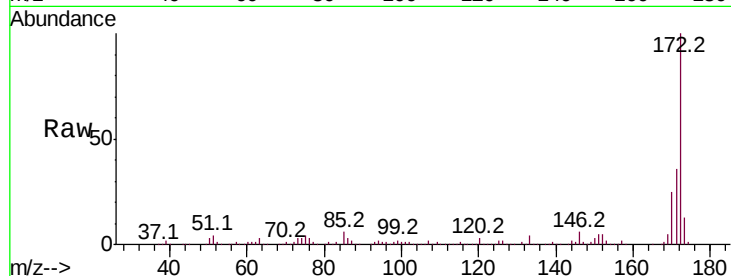




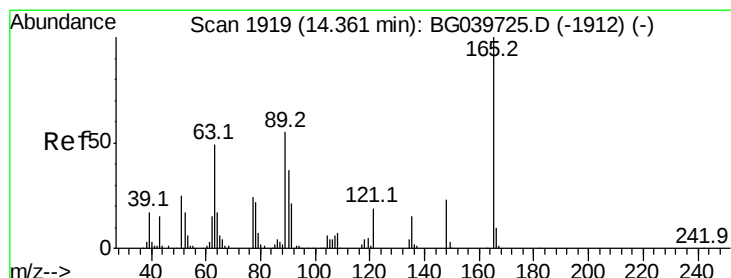
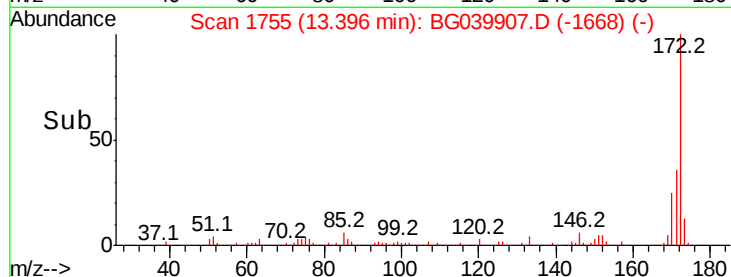
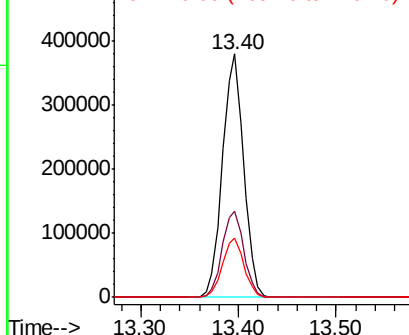
#45  
 2-Fluorobiphenyl  
 Concen: 78.076 ng  
 RT: 13.40 min Scan# 1755  
 Delta R.T. -0.02 min  
 Lab File: BG039907.D  
 Acq: 13 Mar 2019 18:04

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 570387  
 Ion Ratio Lower Upper  
 172 100  
 171 35.5 30.8 46.2  
 170 24.6 20.2 30.4

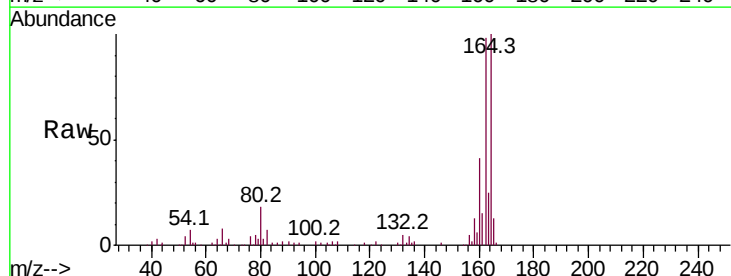


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

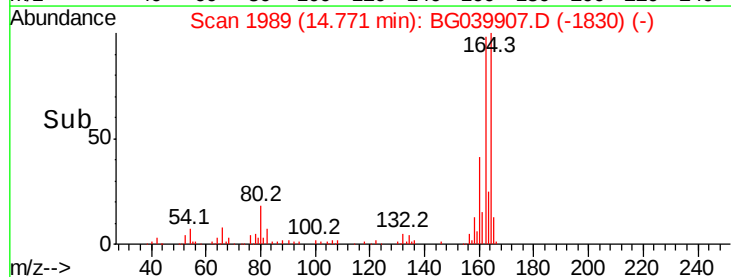
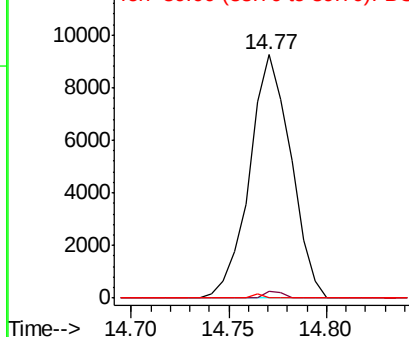


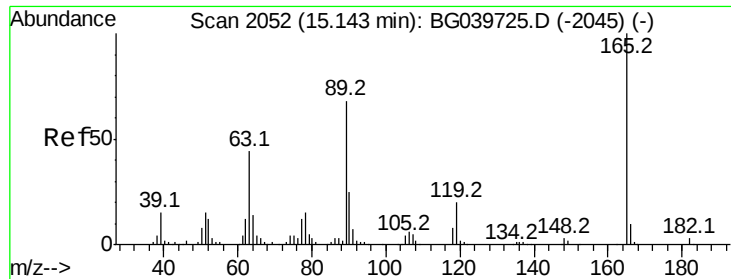
#51  
 2,6-Dinitrotoluene  
 Concen: 7.362 ng  
 RT: 14.77 min Scan# 1989  
 Delta R.T. 0.40 min  
 Lab File: BG039907.D  
 Acq: 13 Mar 2019 18:04

Tgt Ion:165 Resp: 13575  
 Ion Ratio Lower Upper  
 165 100  
 63 2.7 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): BG  
 Ion 89.00 (88.70 to 89.70): BG

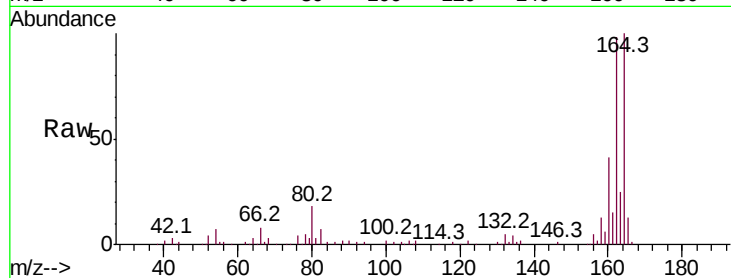




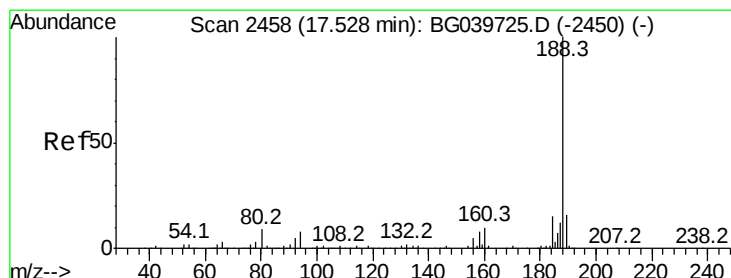
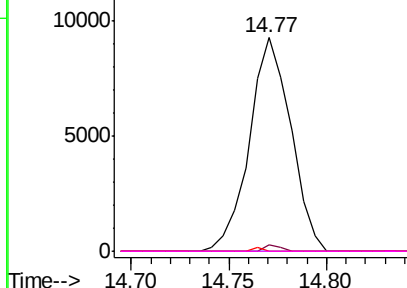
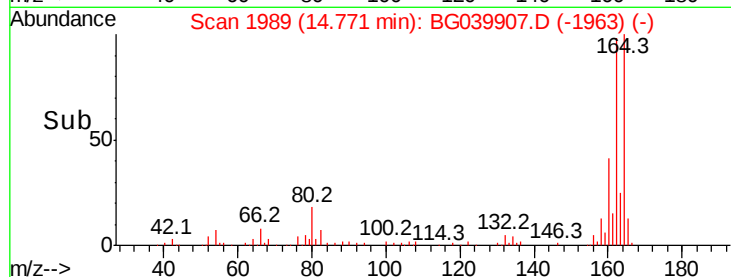
#57  
 2,4-Dinitrotoluene  
 Concen: 5.239 ng  
 RT: 14.77 min Scan# 1989  
 Delta R.T. -0.38 min  
 Lab File: BG039907.D  
 Acq: 13 Mar 2019 18:04

Instrument :  
 BNA\_G  
 ClientSampled :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 13575      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 2.7   | 41.0 61.6# |
| 89          | 0.0   | 64.6 96.8# |
| 182         | 0.0   | 2.0 3.0#   |

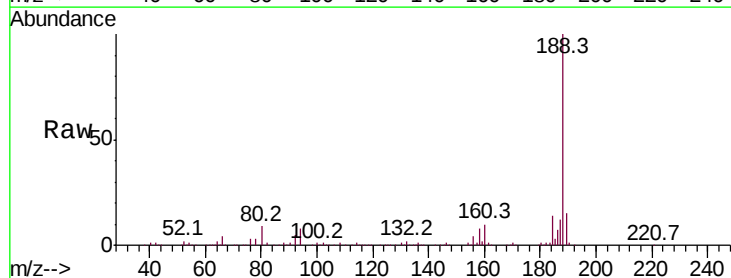


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

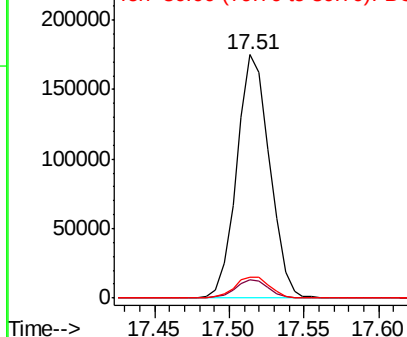
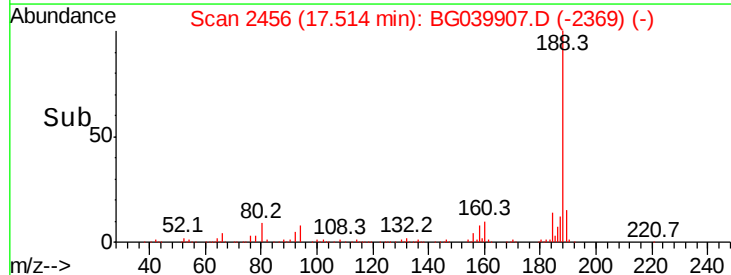


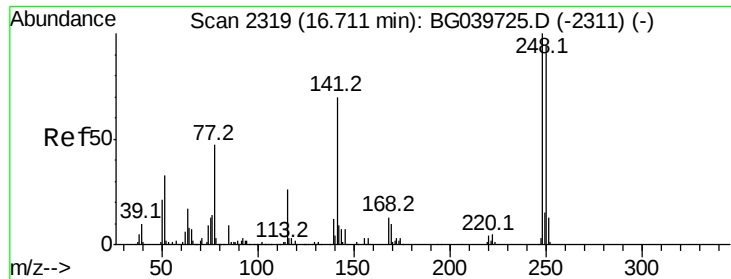
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.51 min Scan# 2456  
 Delta R.T. -0.02 min  
 Lab File: BG039907.D  
 Acq: 13 Mar 2019 18:04

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 266888   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 7.8   | 6.9 10.3 |
| 80          | 8.7   | 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

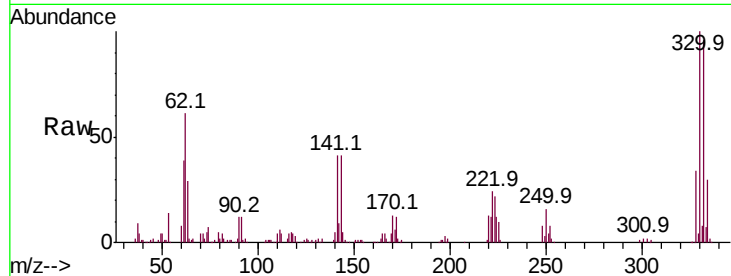




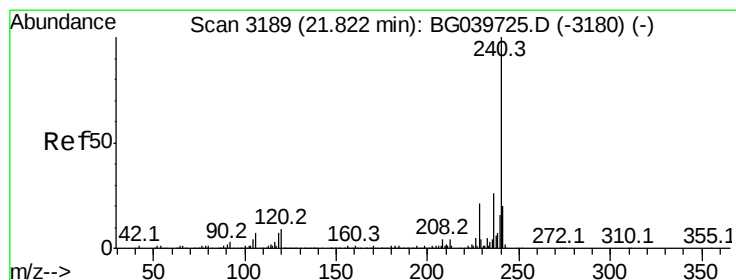
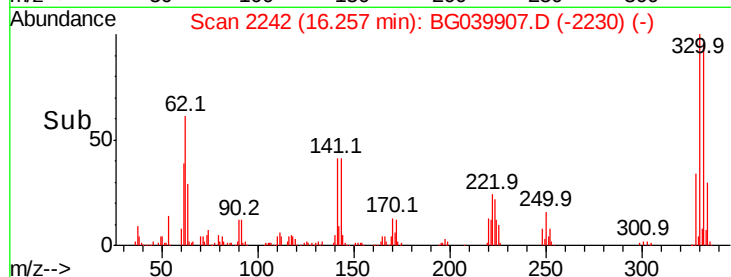
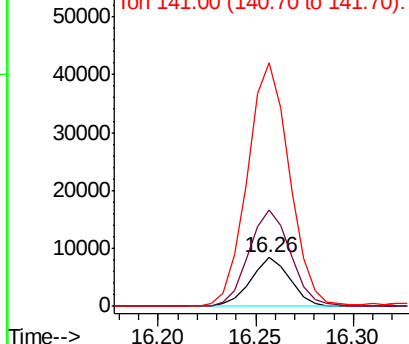
#67  
4-Bromophenyl-phenylether  
Concen: 3.964 ng  
RT: 16.26 min Scan# 2242  
Delta R.T. -0.46 min  
Lab File: BG039907.D  
Acq: 13 Mar 2019 18:04

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 11841  
Ion Ratio Lower Upper  
248 100  
250 196.6 77.6 116.4#  
141 496.9 63.9 95.9#

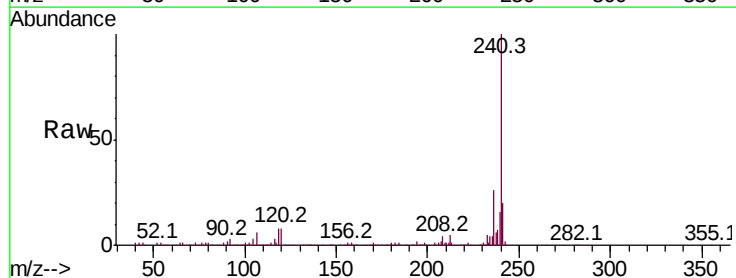


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

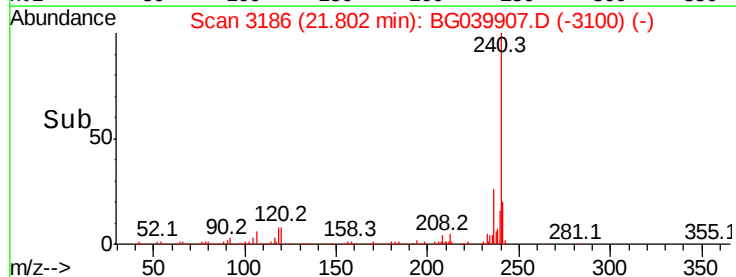
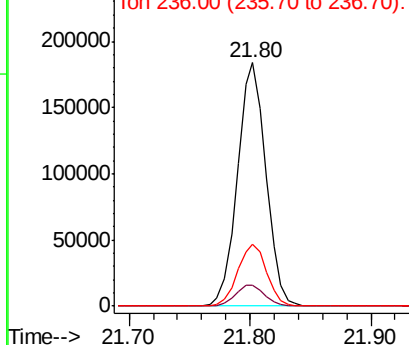


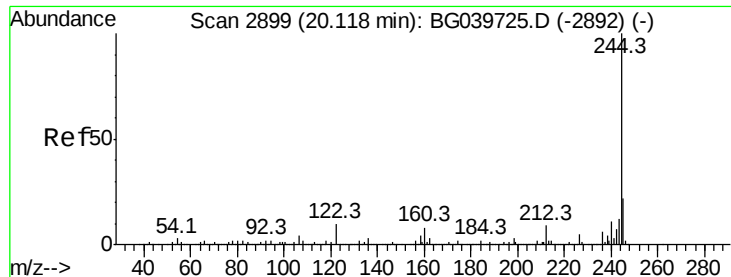
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.80 min Scan# 3186  
Delta R.T. -0.03 min  
Lab File: BG039907.D  
Acq: 13 Mar 2019 18:04

Tgt Ion:240 Resp: 302315  
Ion Ratio Lower Upper  
240 100  
120 8.5 7.0 10.6  
236 25.6 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





#79

Terphenyl-d14

Concen: 74.915 ng

RT: 20.11 min Scan# 2898

Delta R.T. -0.01 min

Lab File: BG039907.D

Acq: 13 Mar 2019 18:04

Instrument :

BNA\_G

ClientSampled :

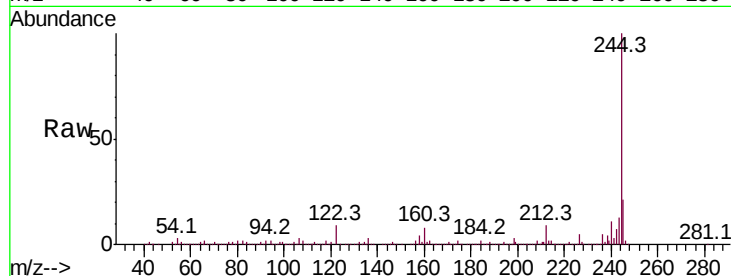
Tot Ion:244 Resp: 1028612

Ion Ratio Lower Upper

244 100

212 8.7 7.3 10.9

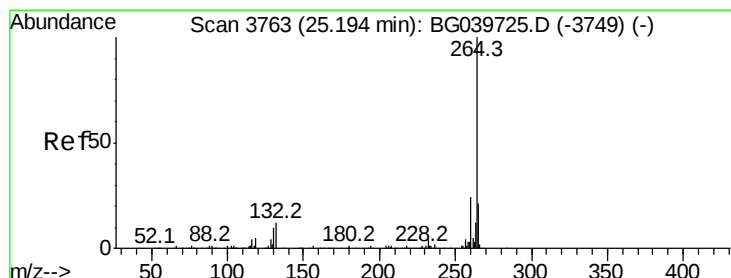
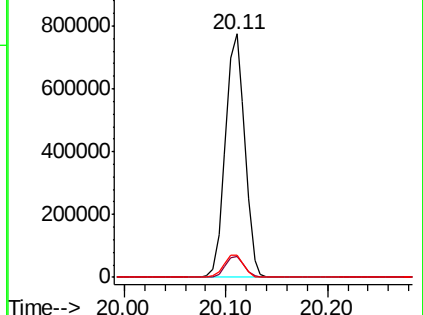
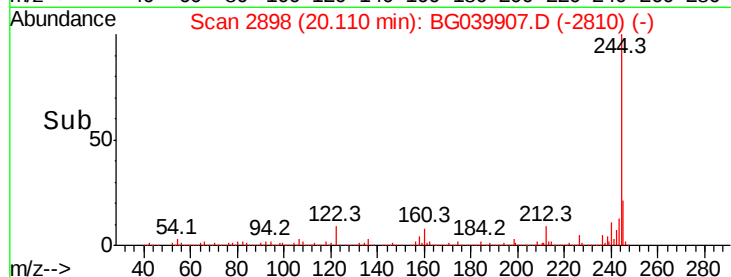
122 8.9 8.4 12.6



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# 3758

Delta R.T. -0.04 min

Lab File: BG039907.D

Acq: 13 Mar 2019 18:04

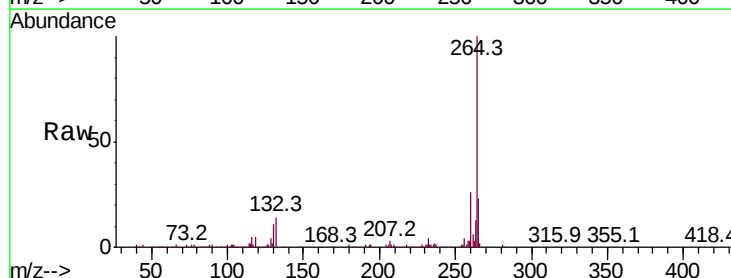
Tgt Ion:264 Resp: 300002

Ion Ratio Lower Upper

264 100

260 25.8 18.2 27.4

265 22.6 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

