

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG042619\  
 Data File : BG040634.D  
 Acq On : 26 Apr 2019 18:06  
 Operator : JU/SJ  
 Sample : K2566-03  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S37-0017

Quant Time: Apr 27 02:03:41 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG042319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 24 05:35:33 2019  
 Response via : Initial Calibration

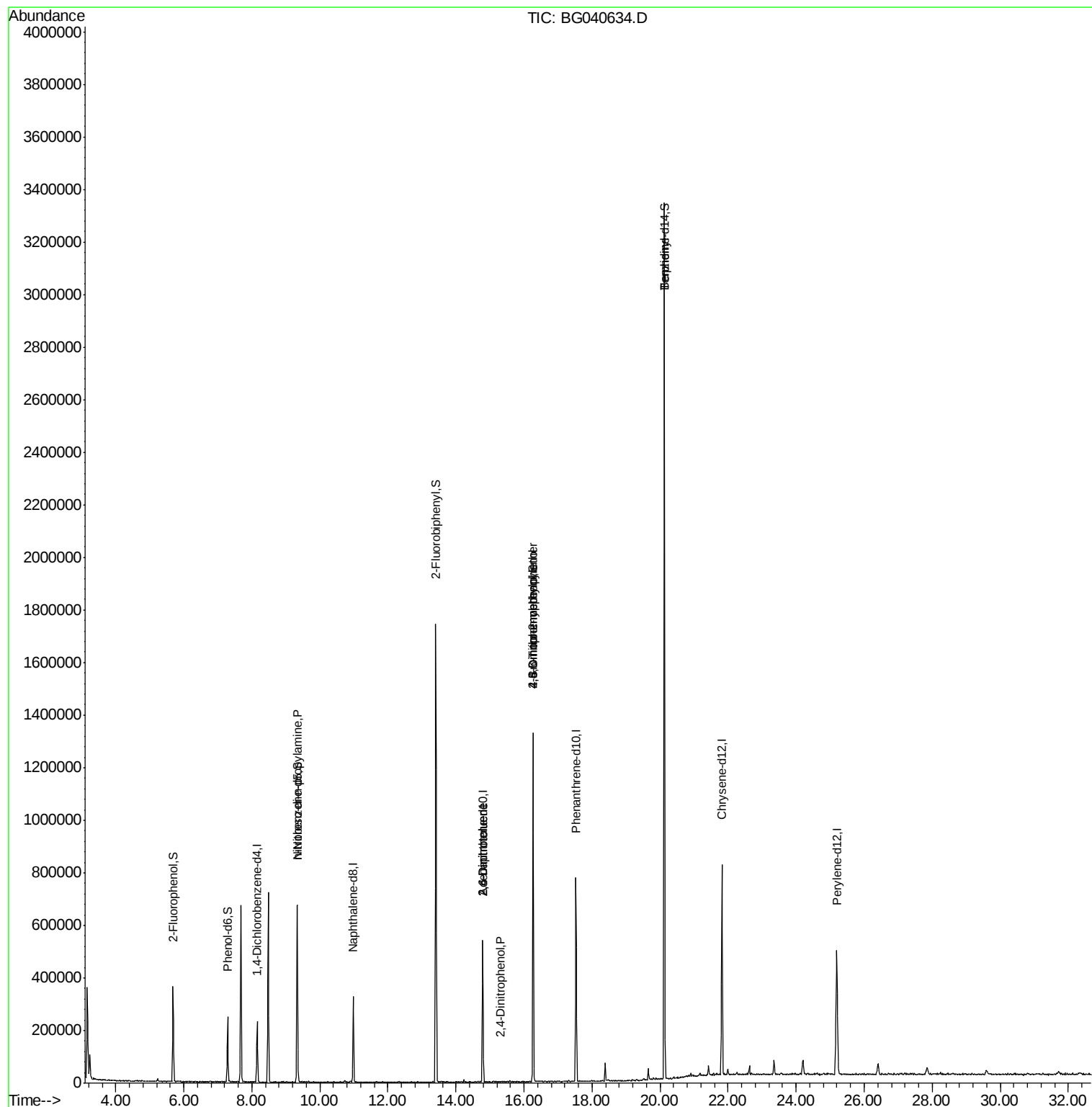
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.16  | 152  | 54947    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 10.98 | 136  | 240712   | 20.00     | ng     | 0.00     |
| 39) Acenaphthene-d10           | 14.79 | 164  | 177552   | 20.00     | ng     | 0.00     |
| 64) Phenanthrene-d10           | 17.53 | 188  | 468045   | 20.00     | ng     | 0.00     |
| 76) Chrysene-d12               | 21.82 | 240  | 463272   | 20.00     | ng     | 0.00     |
| 87) Perylene-d12               | 25.19 | 264  | 492173   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.69  | 112  | 127268   | 40.83     | ng     | 0.00     |
| 7) Phenol-d6                   | 7.29  | 99   | 117325   | 24.45     | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 9.34  | 82   | 393801   | 75.59     | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.27 | 330  | 219672   | 90.01     | ng     | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.41 | 172  | 862790   | 70.18     | ng     | 0.00     |
| 79) Terphenyl-d14              | 20.13 | 244  | 1528645  | 73.10     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 7.30  | 77   | 231      | Below Cal | Qvalue | # 6      |
| 19) n-Nitroso-di-n-propylamine | 9.33  | 70   | 59562    | 13.786 ng | #      | 74       |
| 51) 2,6-Dinitrotoluene         | 14.79 | 165  | 23307    | 8.039 ng  | #      | 16       |
| 54) 2,4-Dinitrophenol          | 15.31 | 184  | 65       | 7.051 ng  | #      | 21       |
| 57) 2,4-Dinitrotoluene         | 14.79 | 165  | 23307    | 5.916 ng  | #      | 18       |
| 65) 4,6-Dinitro-2-methylphenol | 16.27 | 198  | 786      | 7.392 ng  | #      | 68       |
| 67) 4-Bromophenyl-phenylether  | 16.27 | 248  | 17514    | 3.004 ng  | #      | 1        |
| 77) Benzydine                  | 20.12 | 184  | 30786    | 2.427 ng  | #      | 91       |

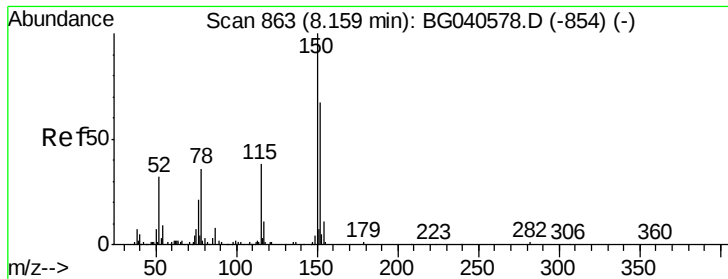
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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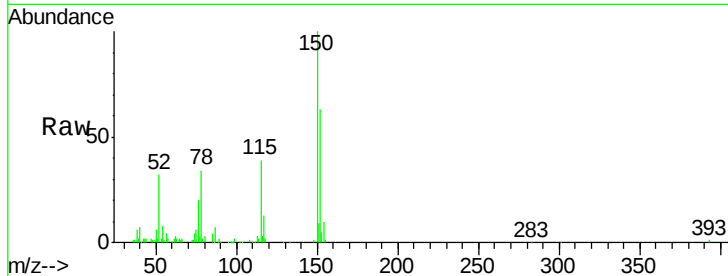


#1

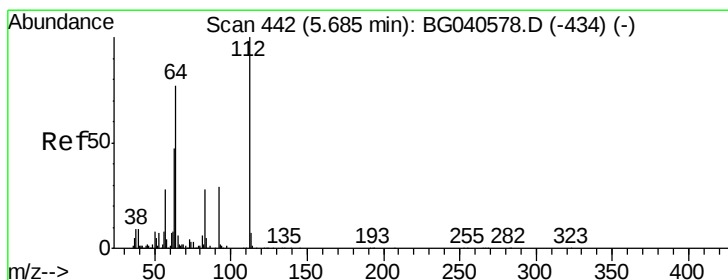
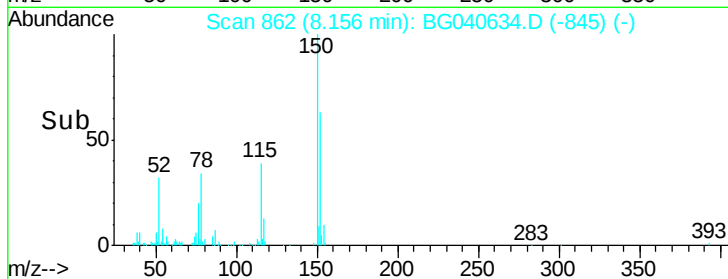
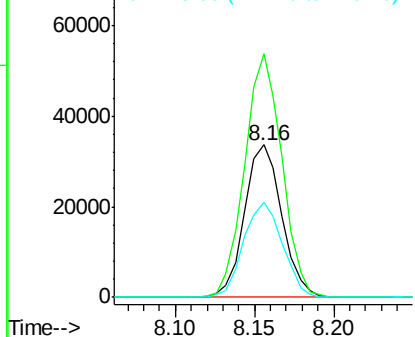
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.16 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: BG040634.D  
Acq: 26 Apr 2019 18:06

Instrument :  
BNA\_G  
ClientSampleId :  
S37-0017

Tot Ion:152 Resp: 54947  
Ion Ratio Lower Upper  
152 100  
150 159.8 120.2 180.2  
115 62.3 46.2 69.2



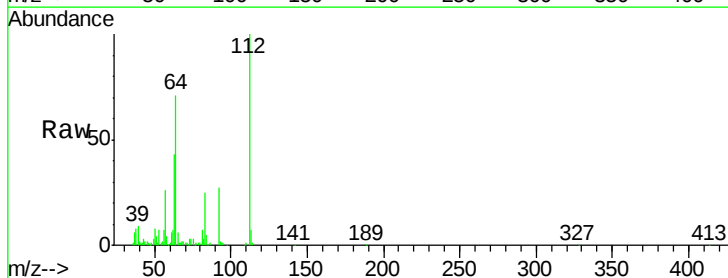
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



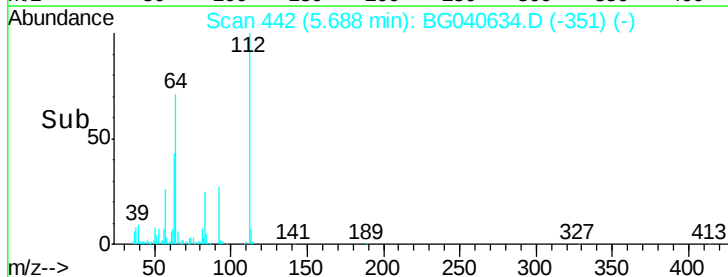
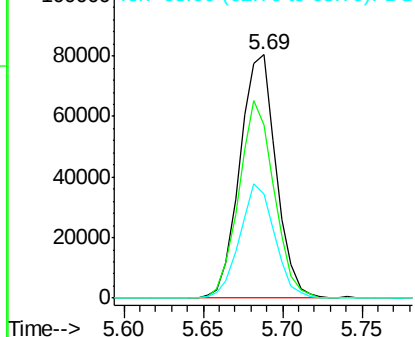
#5

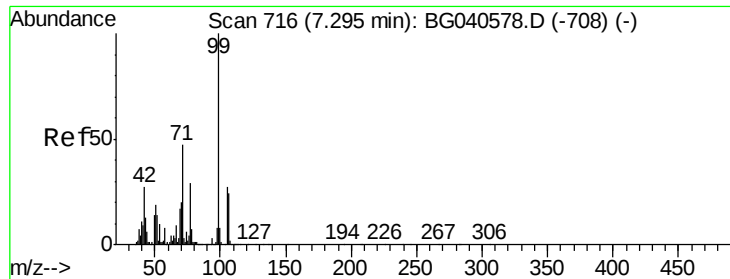
2-Fluorophenol  
Concen: 40.829 ng  
RT: 5.69 min Scan# 442  
Delta R.T. 0.00 min  
Lab File: BG040634.D  
Acq: 26 Apr 2019 18:06

Tgt Ion:112 Resp: 127268  
Ion Ratio Lower Upper  
112 100  
64 71.1 61.4 92.0  
63 42.6 37.8 56.6



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: 24.446 ng

RT: 7.29 min Scan# 714

Delta R.T. -0.01 min

Lab File: BG040634.D

Acq: 26 Apr 2019 18:06

Instrument :

BNA\_G

ClientSampleId :

S37-0017

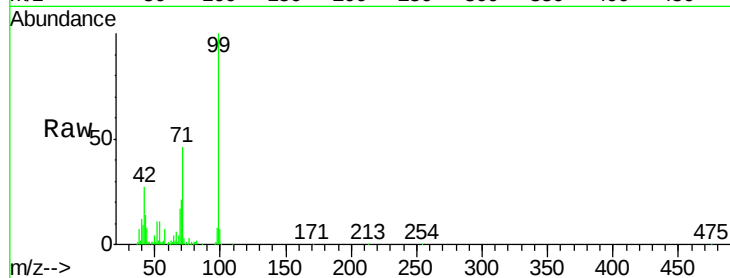
Tot Ion: 99 Resp: 117325

Ion Ratio Lower Upper

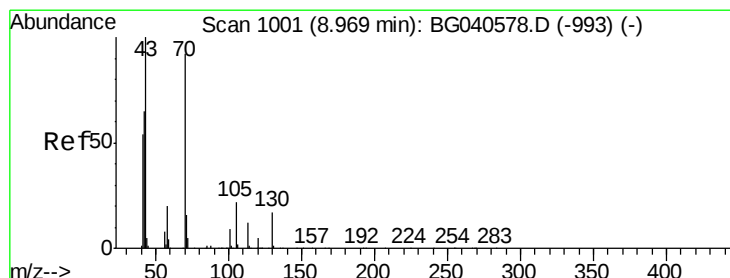
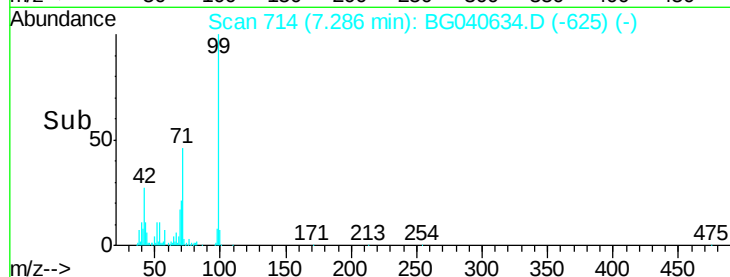
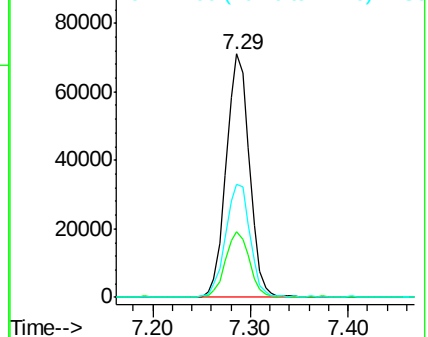
99 100

42 26.8 21.8 32.8

71 46.4 38.6 57.8



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: 13.786 ng

RT: 9.33 min Scan# 1062

Delta R.T. 0.36 min

Lab File: BG040634.D

Acq: 26 Apr 2019 18:06

Tgt Ion: 70 Resp: 59562

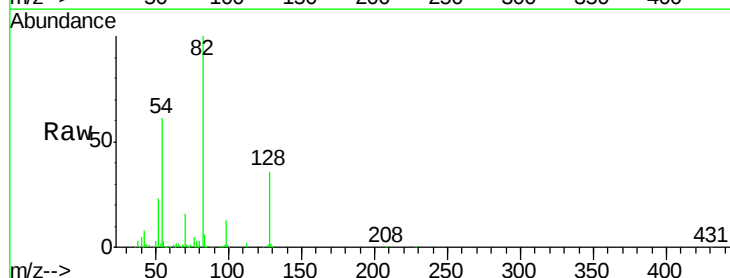
Ion Ratio Lower Upper

70 100

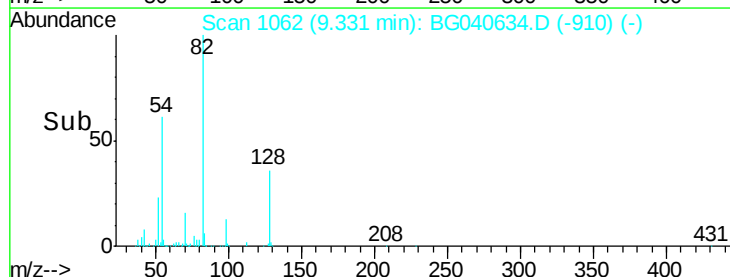
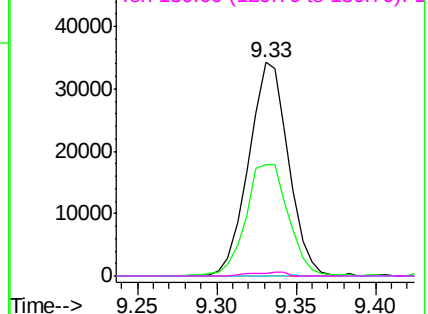
42 52.2 57.1 85.7#

101 0.0 7.8 11.8#

130 1.4 14.6 21.8#



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

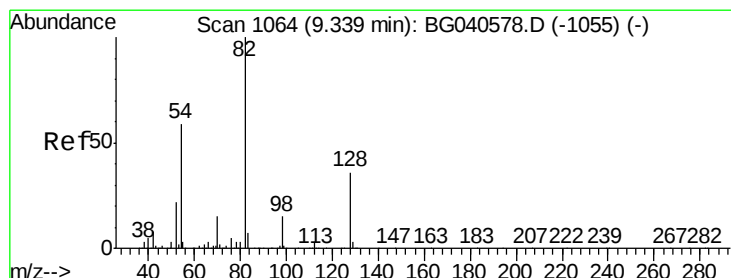
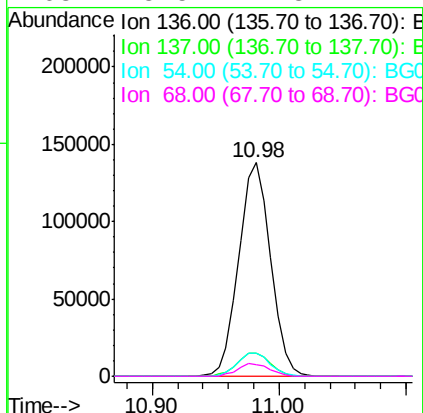
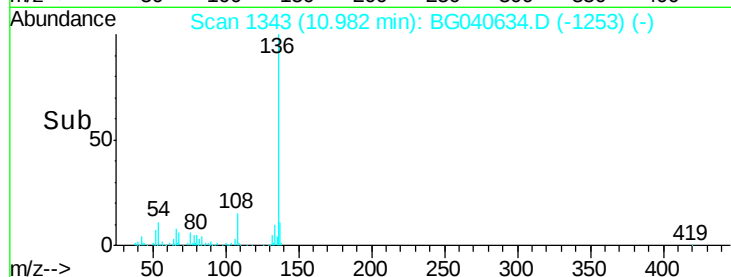
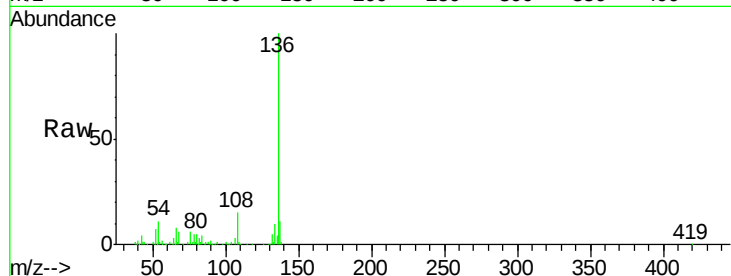




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.98 min Scan# 1343  
Delta R.T. -0.00 min  
Lab File: BG040634.D  
Acq: 26 Apr 2019 18:06

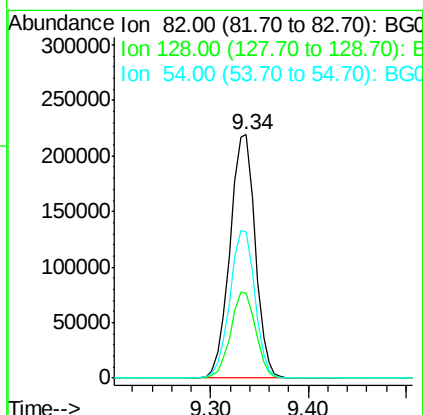
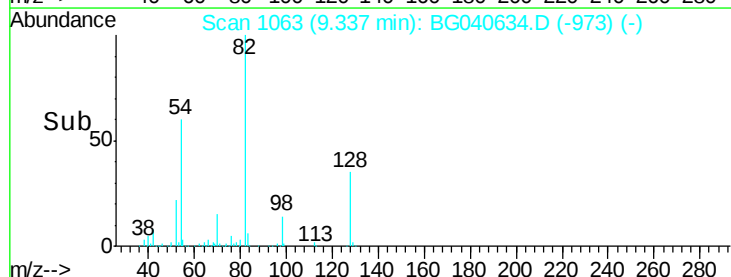
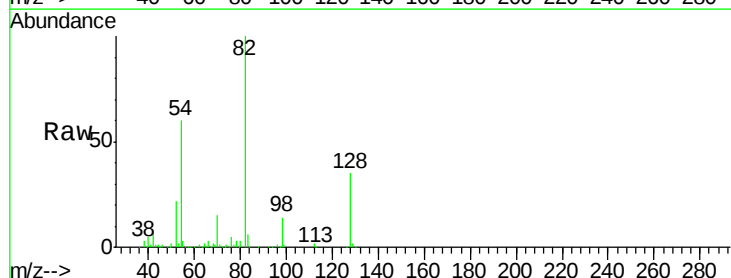
Instrument :  
BNA\_G  
ClientSampleId :  
S37-0017

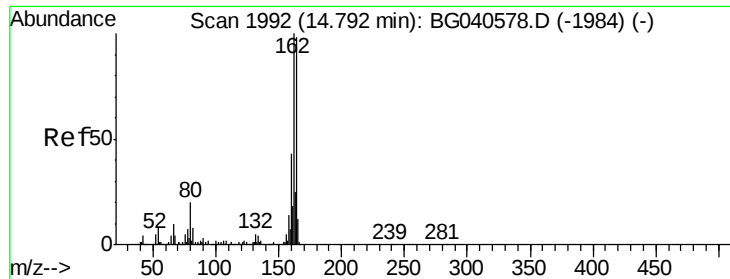
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 240712 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.1    | 9.7   | 14.5   |
| 54 11.0     | 8.6   | 12.8   |
| 68 5.5      | 4.8   | 7.2    |



#23  
Nitrobenzene-d5  
Concen: 75.593 ng  
RT: 9.34 min Scan# 1063  
Delta R.T. -0.00 min  
Lab File: BG040634.D  
Acq: 26 Apr 2019 18:06

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 393801 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 34.6    | 28.9  | 43.3   |
| 54  | 59.9    | 47.2  | 70.8   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.79 min Scan# 1991

Delta R.T. -0.00 min

Lab File: BG040634.D

Acq: 26 Apr 2019 18:06

Instrument :

BNA\_G

ClientSampleId :

S37-0017

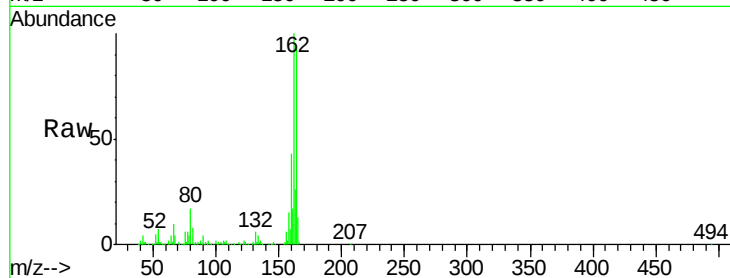
Tot Ion:164 Resp: 177552

Ion Ratio Lower Upper

164 100

162 107.0 81.9 122.9

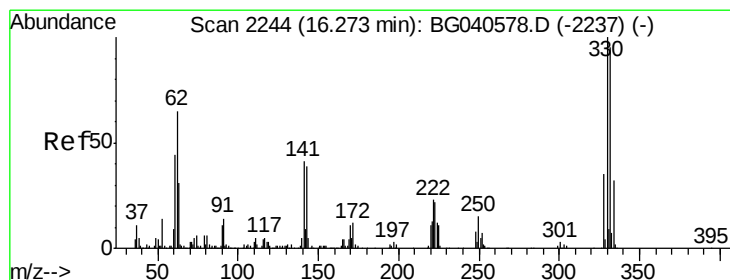
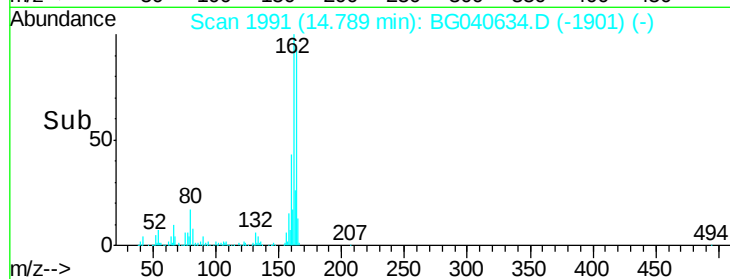
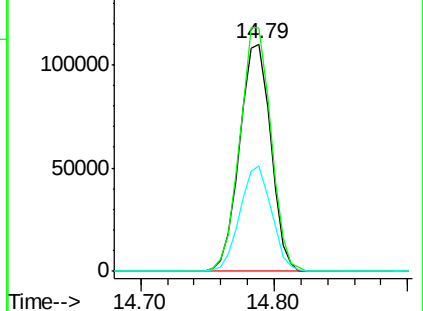
160 46.4 35.4 53.2



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: 90.011 ng

RT: 16.27 min Scan# 2243

Delta R.T. -0.00 min

Lab File: BG040634.D

Acq: 26 Apr 2019 18:06

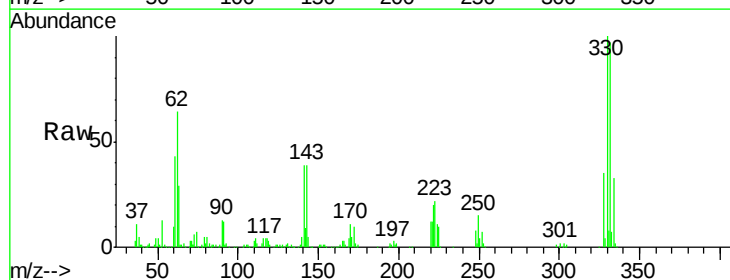
Tgt Ion:330 Resp: 219672

Ion Ratio Lower Upper

330 100

332 96.3 75.9 113.9

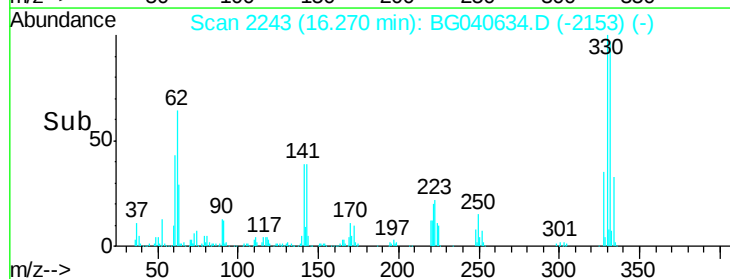
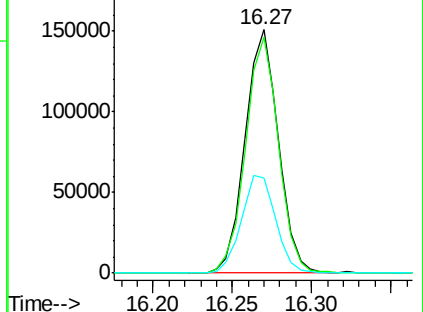
141 41.5 32.4 48.6



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

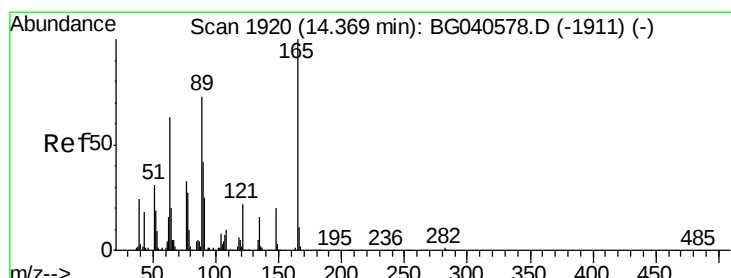
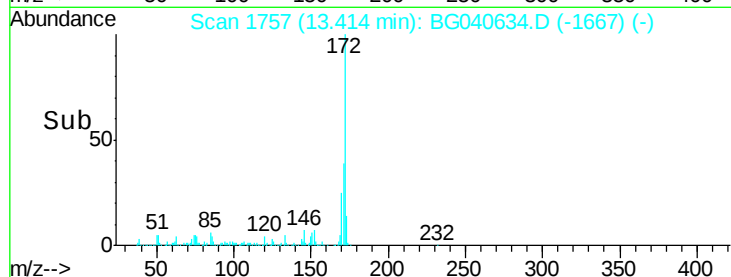
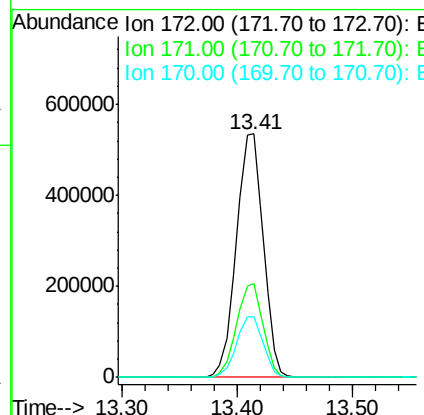
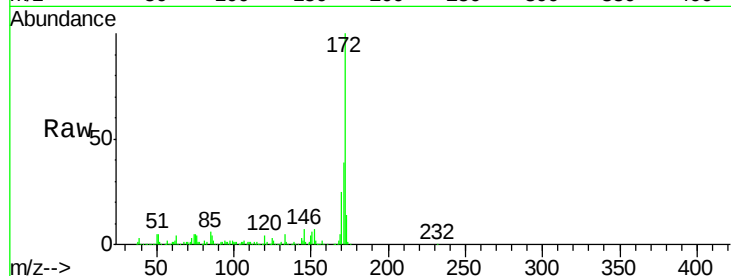




#45  
2-Fluorobiphenyl  
Concen: 70.179 ng  
RT: 13.41 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: BG040634.D  
Acq: 26 Apr 2019 18:06

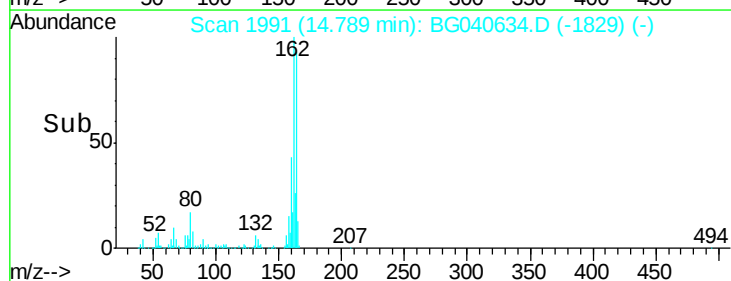
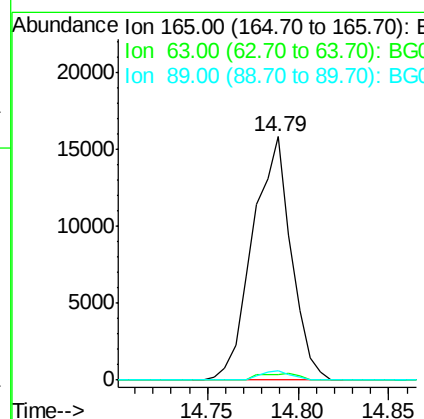
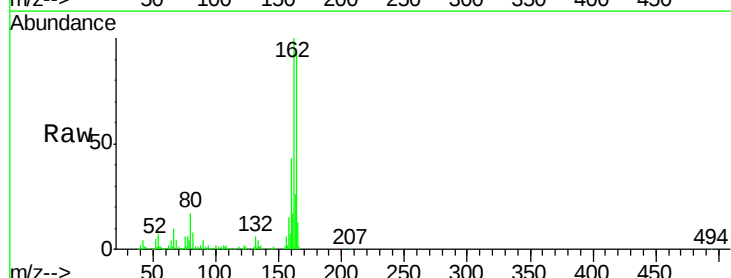
Instrument :  
BNA\_G  
ClientSampleId :  
S37-0017

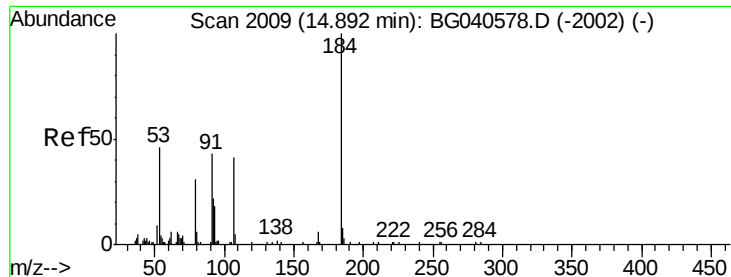
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.7  | 29.4  | 44.2  |
| 170     | 25.0  | 19.9  | 29.9  |



#51  
2,6-Dinitrotoluene  
Concen: 8.039 ng  
RT: 14.79 min Scan# 1991  
Delta R.T. 0.42 min  
Lab File: BG040634.D  
Acq: 26 Apr 2019 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.2   | 61.0  | 91.4# |
| 89      | 3.7   | 58.6  | 87.8# |

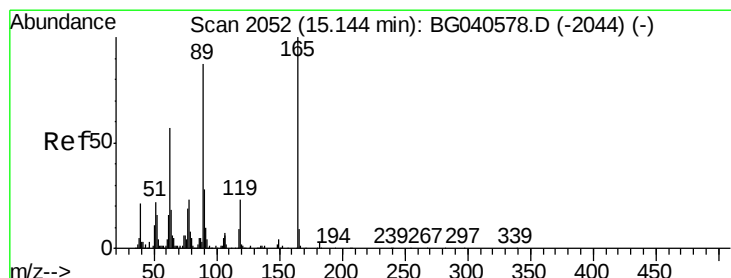
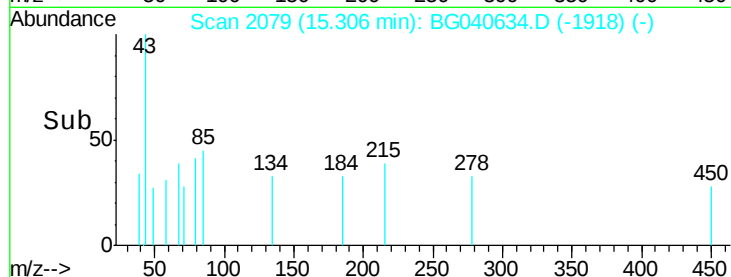
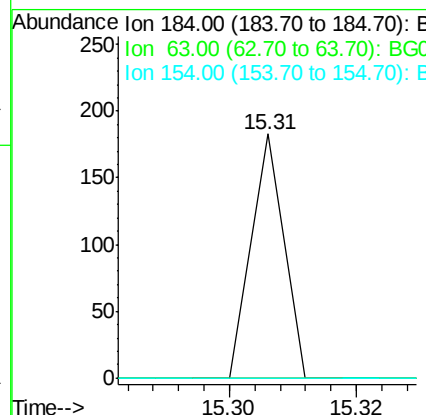
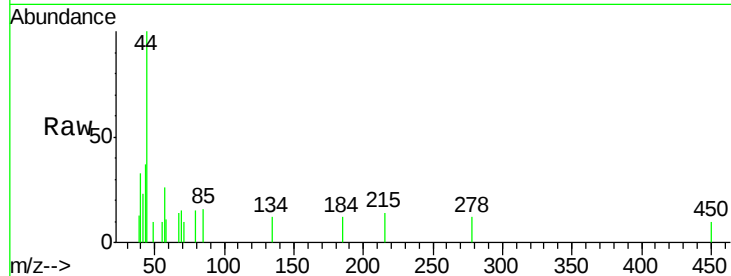




#54  
 2,4-Dinitrophenol  
 Concen: 7.051 ng  
 RT: 15.31 min Scan# 2079  
 Delta R.T. 0.41 min  
 Lab File: BG040634.D  
 Acq: 26 Apr 2019 18:06

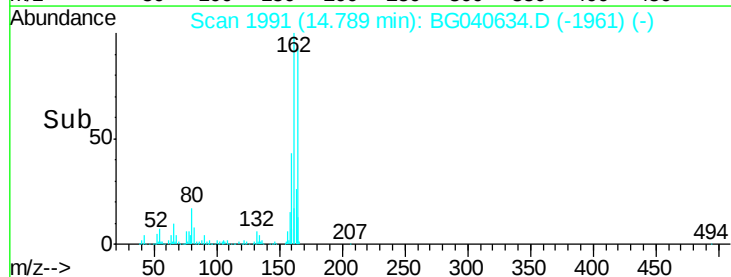
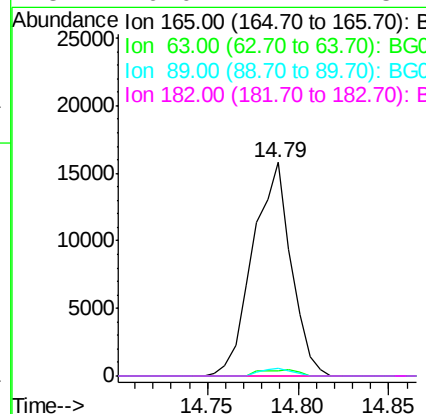
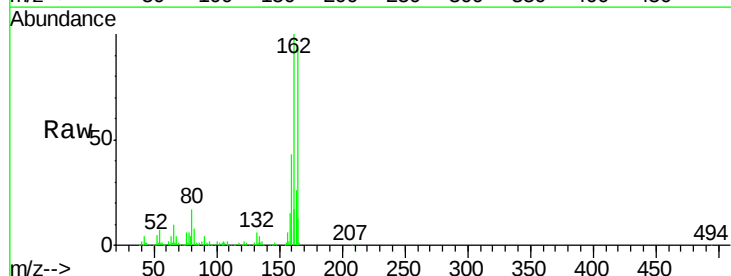
Instrument :  
 BNA\_G  
 ClientSampleId :  
 S37-0017

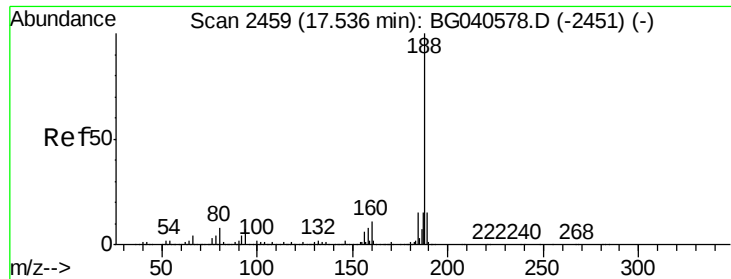
Tot Ion:184 Resp: 65  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 51.8 77.6#  
 154 0.0 43.6 65.4#



#57  
 2,4-Dinitrotoluene  
 Concen: 5.916 ng  
 RT: 14.79 min Scan# 1991  
 Delta R.T. -0.36 min  
 Lab File: BG040634.D  
 Acq: 26 Apr 2019 18:06

Tgt Ion:165 Resp: 23307  
 Ion Ratio Lower Upper  
 165 100  
 63 2.2 45.8 68.8#  
 89 3.7 69.4 104.2#  
 182 0.0 2.2 3.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.53 min Scan# 2457

Delta R.T. -0.01 min

Lab File: BG040634.D

Acq: 26 Apr 2019 18:06

Instrument :

BNA\_G

ClientSampleId :

S37-0017

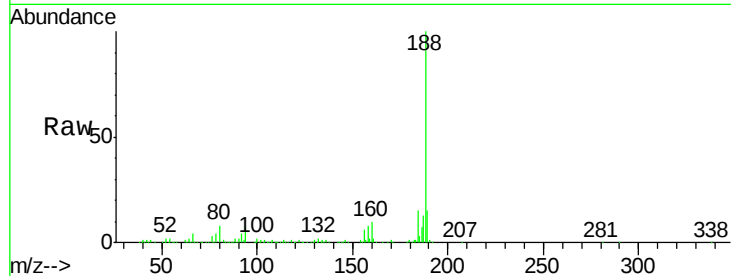
Tot Ion:188 Resp: 468045

Ion Ratio Lower Upper

188 100

94 6.9 5.6 8.4

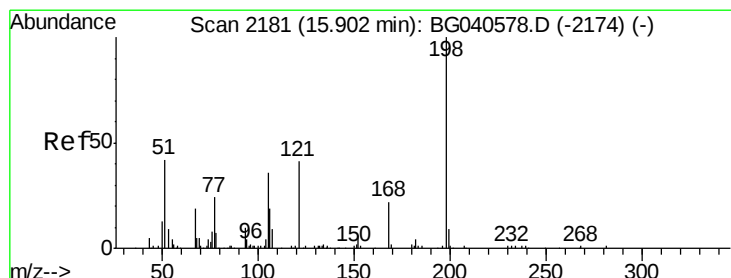
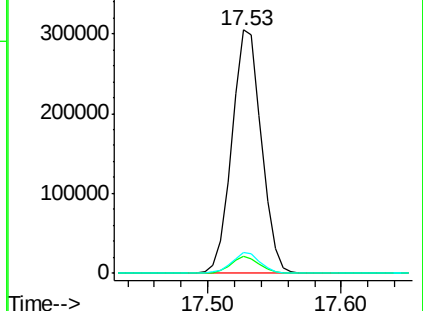
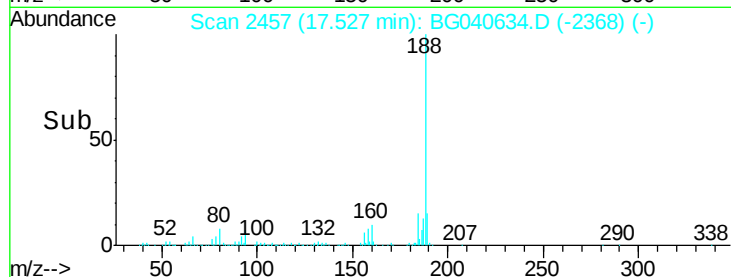
80 8.4 6.4 9.6



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: 7.392 ng

RT: 16.27 min Scan# 2243

Delta R.T. 0.37 min

Lab File: BG040634.D

Acq: 26 Apr 2019 18:06

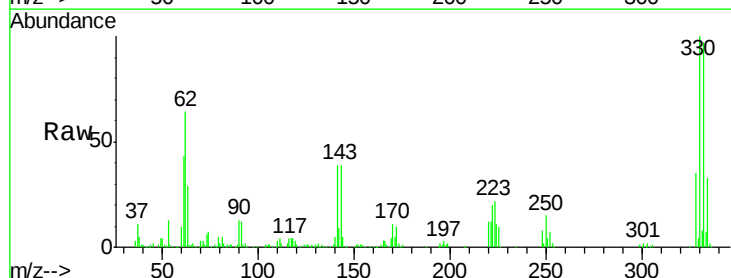
Tgt Ion:198 Resp: 786

Ion Ratio Lower Upper

198 100

51 26.5 35.9 75.9#

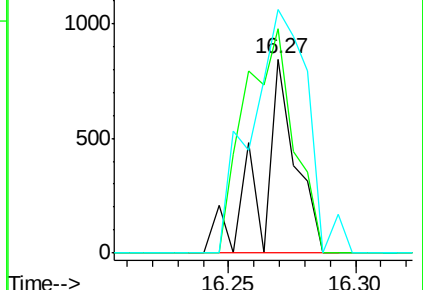
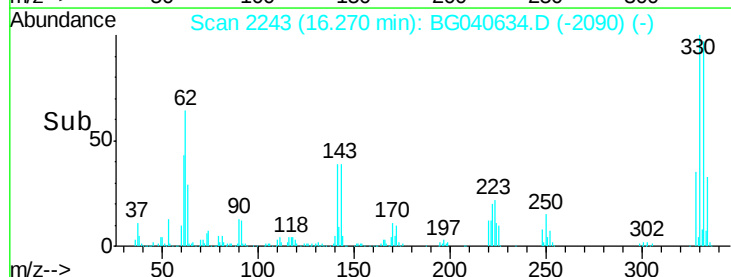
105 28.7 21.2 61.2

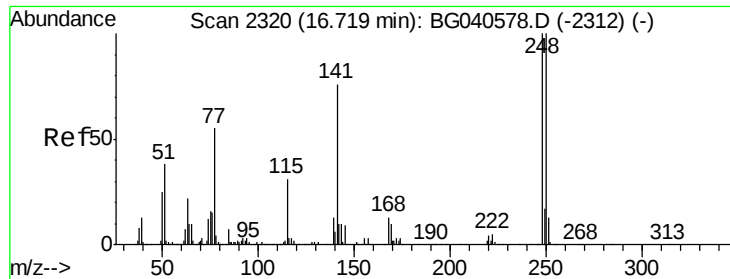


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

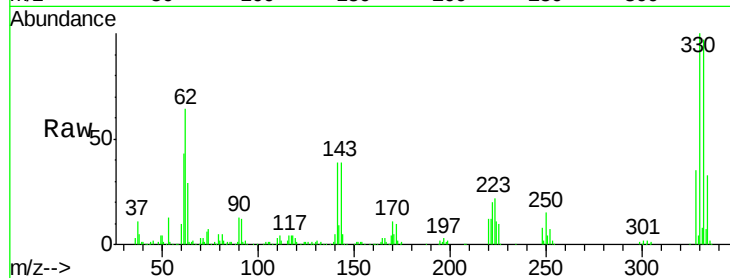




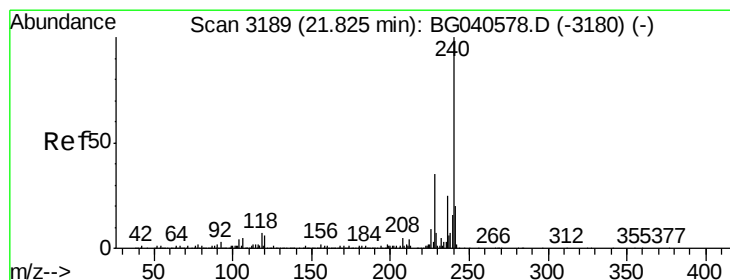
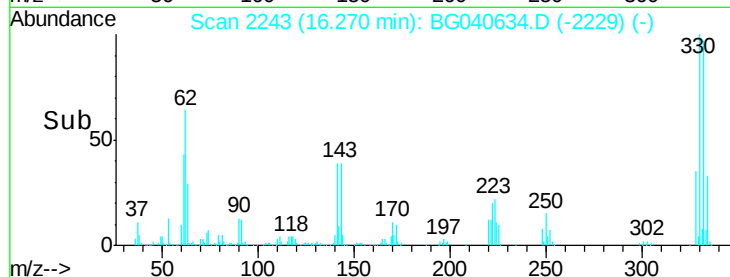
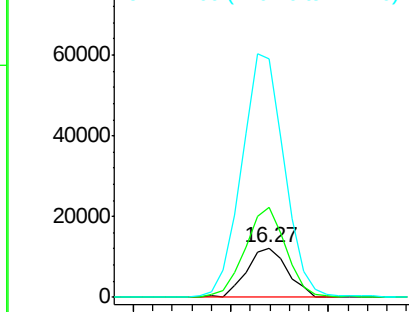
#67  
4-Bromophenyl-phenylether  
Concen: 3.004 ng  
RT: 16.27 min Scan# 2243  
Delta R.T. -0.45 min  
Lab File: BG040634.D  
Acq: 26 Apr 2019 18:06

Instrument :  
BNA\_G  
ClientSampleId :  
S37-0017

Tot Ion:248 Resp: 17514  
Ion Ratio Lower Upper  
248 100  
250 187.6 79.8 119.6#  
141 381.0 60.8 91.2#

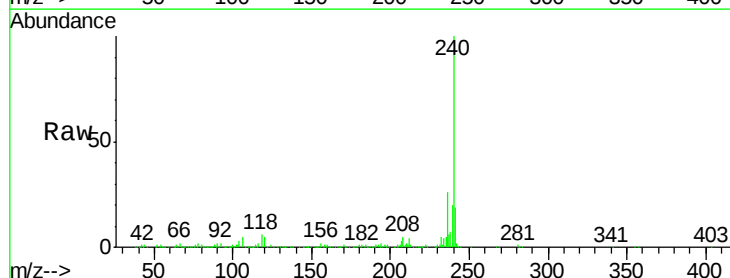


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

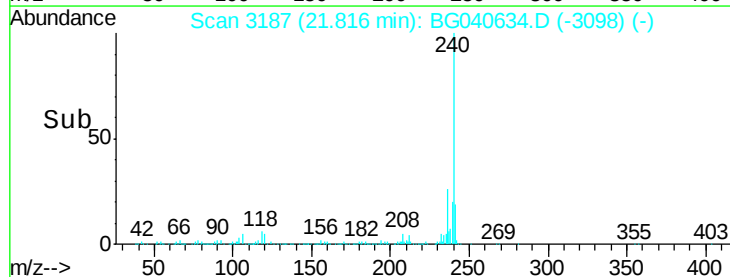
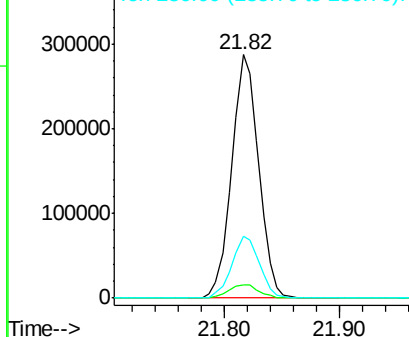


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.82 min Scan# 3187  
Delta R.T. -0.01 min  
Lab File: BG040634.D  
Acq: 26 Apr 2019 18:06

Tgt Ion:240 Resp: 463272  
Ion Ratio Lower Upper  
240 100  
120 5.4 5.0 7.6  
236 25.6 20.3 30.5



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: 2.427 ng

RT: 20.12 min Scan# 2899

Delta R.T. 0.37 min

Lab File: BG040634.D

Acq: 26 Apr 2019 18:06

Instrument :

BNA\_G

ClientSampleId :

S37-0017

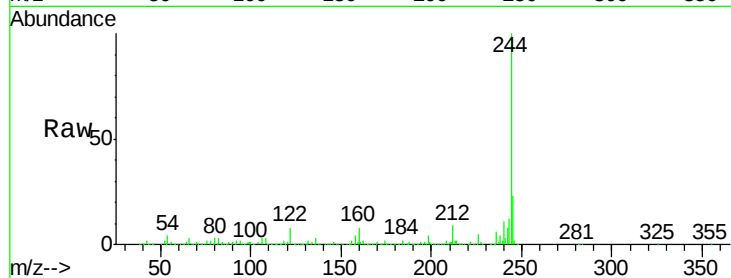
Tot Ion:184 Resp: 30786

Ion Ratio Lower Upper

184 100

185 17.0 11.8 17.8

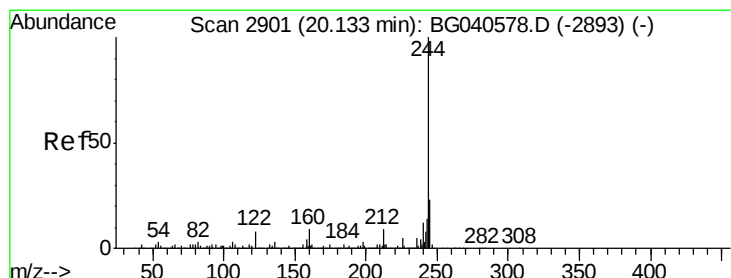
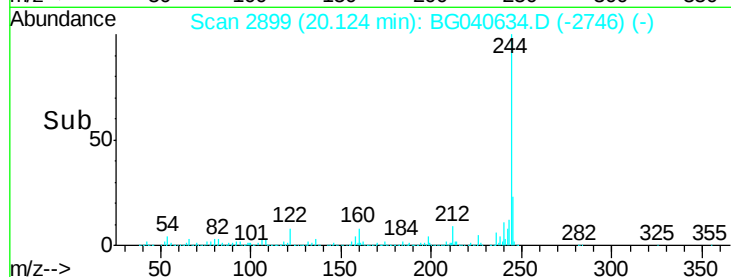
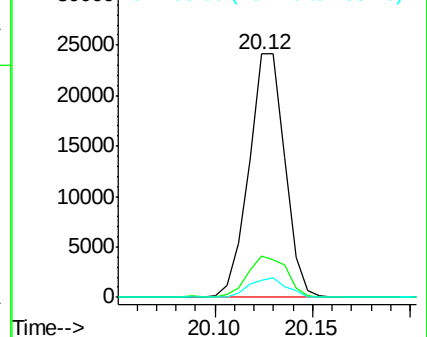
183 7.2 10.2 15.2#



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: 73.102 ng

RT: 20.13 min Scan# 2900

Delta R.T. -0.00 min

Lab File: BG040634.D

Acq: 26 Apr 2019 18:06

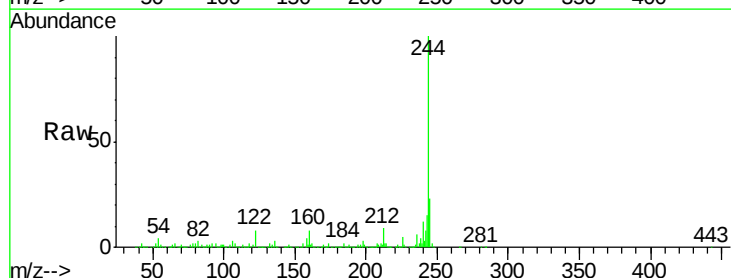
Tgt Ion:244 Resp: 1528645

Ion Ratio Lower Upper

244 100

212 9.2 7.2 10.8

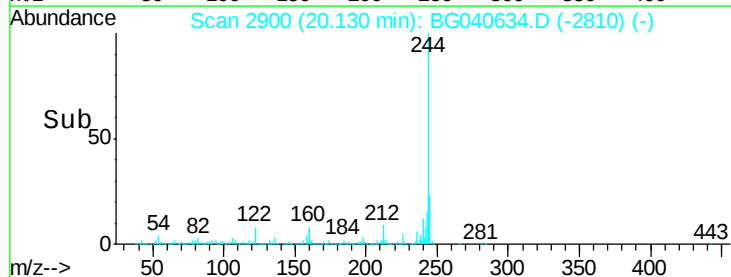
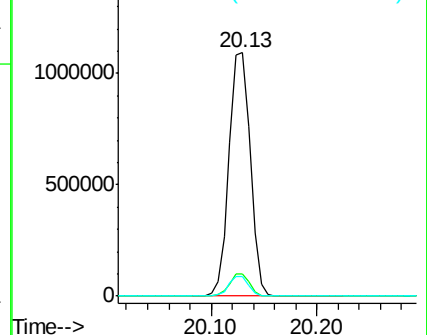
122 7.9 6.6 10.0



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  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 25.19 min Scan# 3762  
 Delta R.T. -0.01 min  
 Lab File: BG040634.D  
 Acq: 26 Apr 2019 18:06

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S37-0017

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 21.7  | 16.6  | 25.0  |

