

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG042619\  
 Data File : BG040631.D  
 Acq On : 26 Apr 2019 16:12  
 Operator : JU/SJ  
 Sample : K2535-05  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S37-ER-2019-1

Quant Time: Apr 27 02:03:20 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

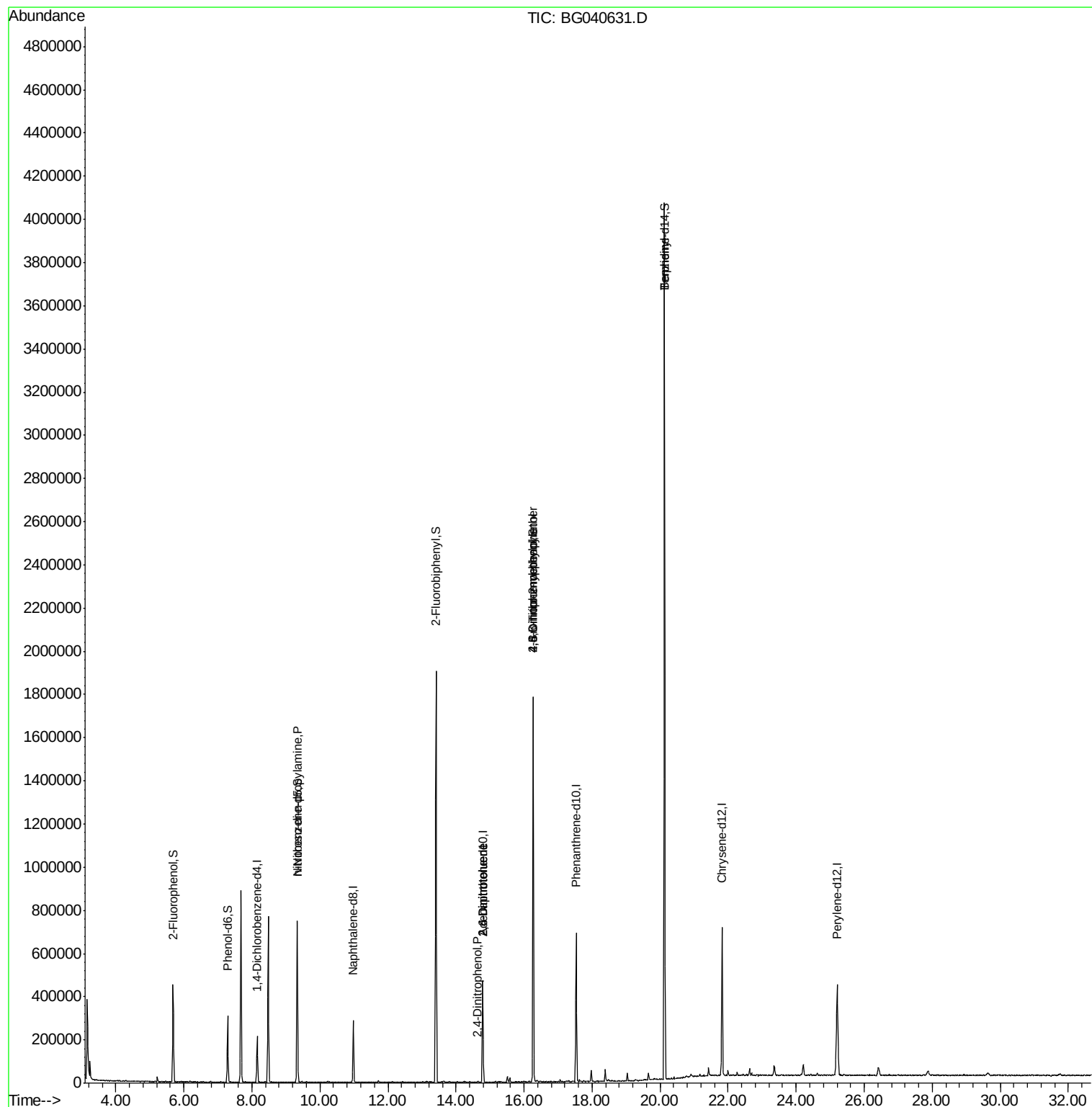
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.16  | 152  | 50119    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.98 | 136  | 212977   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.78 | 164  | 156932   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.53 | 188  | 407534   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 21.82 | 240  | 410540   | 20.00     | ng    | 0.00     |
| 87) Perylene-d12               | 25.21 | 264  | 432623   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.68  | 112  | 161066   | 56.65     | ng    | 0.00     |
| 7) Phenol-d6                   | 7.29  | 99   | 148214   | 33.86     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.34  | 82   | 429166   | 93.11     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.27 | 330  | 299571   | 138.88    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.41 | 172  | 911213   | 83.86     | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.13 | 244  | 1737944  | 93.79     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 7.29  | 77   | 781      | Below Cal |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 9.34  | 70   | 65375    | 16.590 ng | #     | 44       |
| 51) 2,6-Dinitrotoluene         | 14.78 | 165  | 20556    | 8.022 ng  | #     | 74       |
| 54) 2,4-Dinitrophenol          | 14.64 | 184  | 73       | 7.061 ng  | #     | 15       |
| 57) 2,4-Dinitrotoluene         | 14.78 | 165  | 20556    | 5.903 ng  | #     | 21       |
| 65) 4,6-Dinitro-2-methylphenol | 16.27 | 198  | 1164     | 7.595 ng  | #     | 16       |
| 67) 4-Bromophenyl-phenylether  | 16.27 | 248  | 21182    | 4.172 ng  | #     | 70       |
| 77) Benzydine                  | 20.13 | 184  | 35533    | 3.161 ng  | #     | 1        |
|                                |       |      |          |           | #     | 95       |

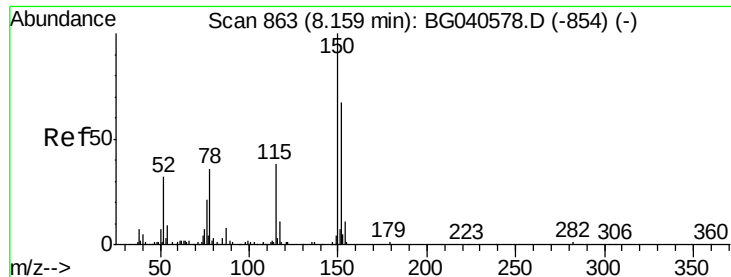
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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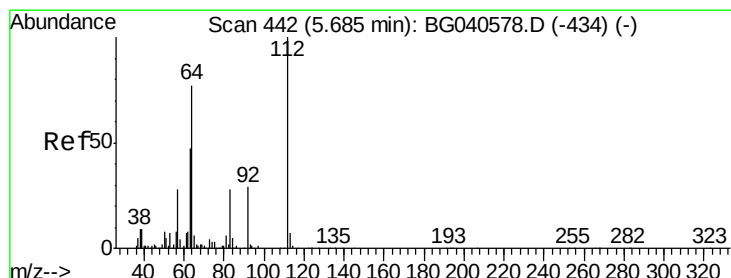
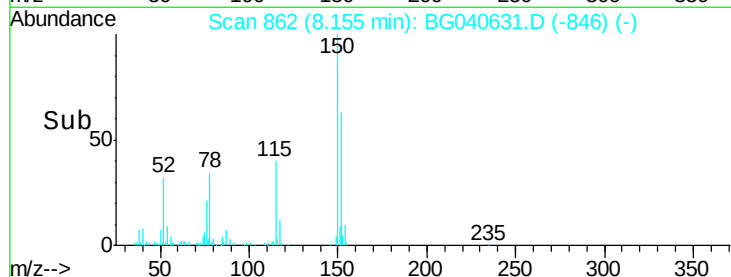
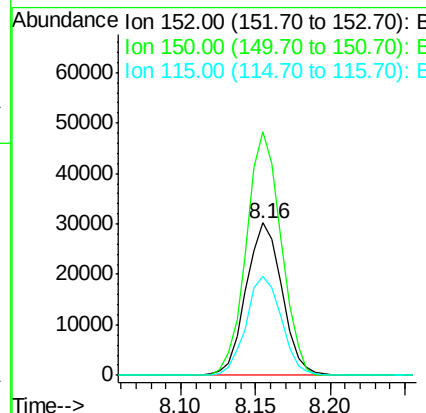
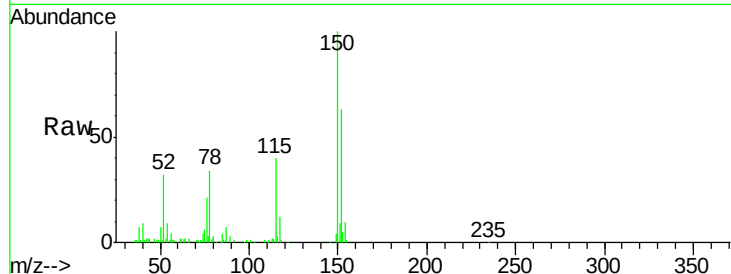


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.16 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

Instrument :  
BNA\_G  
ClientSampleId :  
S37-ER-2019-1

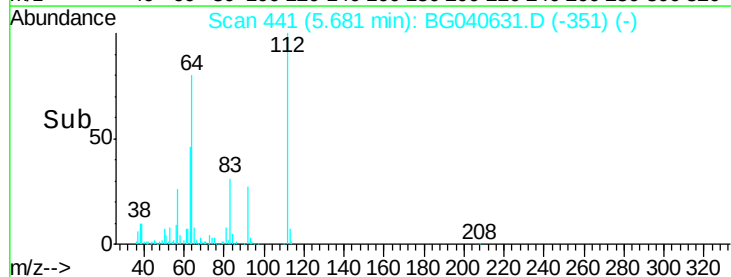
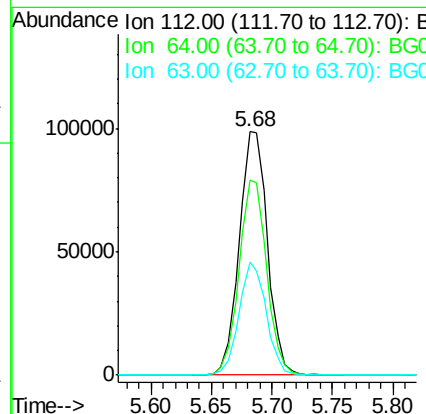
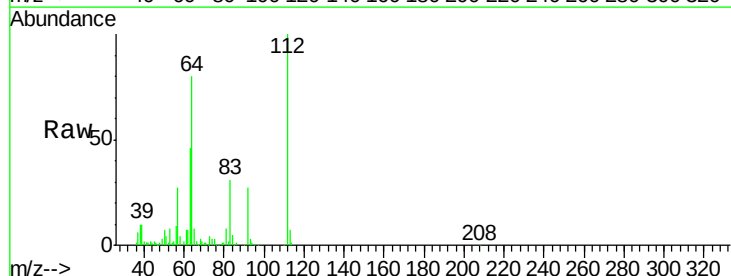
Tot Ion:152 Resp: 50119  
Ion Ratio Lower Upper  
152 100  
150 159.7 120.2 180.2  
115 64.6 46.2 69.2

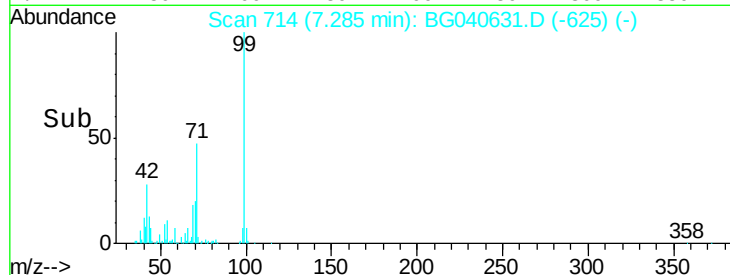
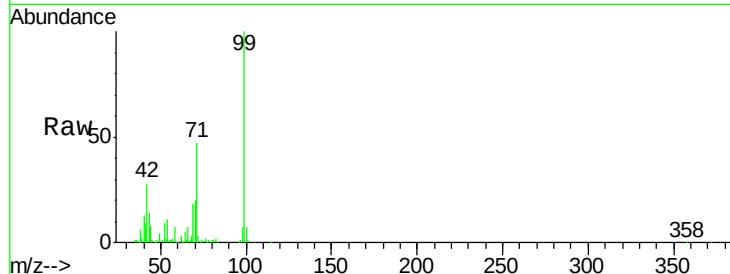
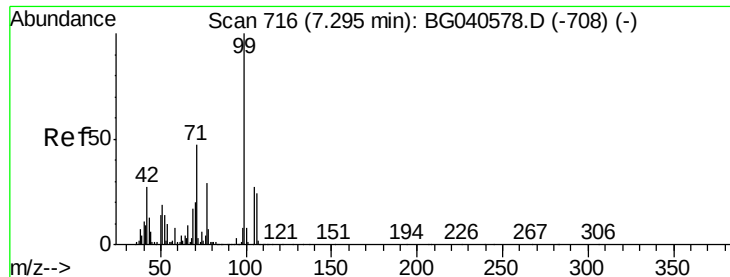


#5

2-Fluorophenol  
Concen: 56.649 ng  
RT: 5.68 min Scan# 441  
Delta R.T. -0.00 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

Tgt Ion:112 Resp: 161066  
Ion Ratio Lower Upper  
112 100  
64 80.2 61.4 92.0  
63 46.5 37.8 56.6





#7

Phenol-d6

Concen: 33.856 ng

RT: 7.29 min Scan# 714

Delta R.T. -0.01 min

Lab File: BG040631.D

Acq: 26 Apr 2019 16:12

Instrument :

BNA\_G

ClientSampleId :

S37-ER-2019-1

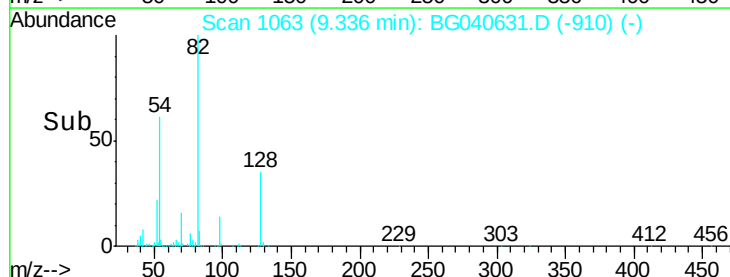
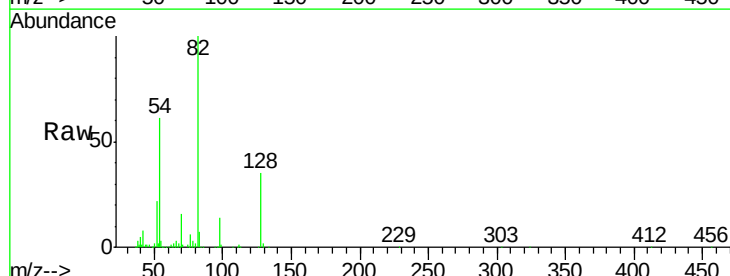
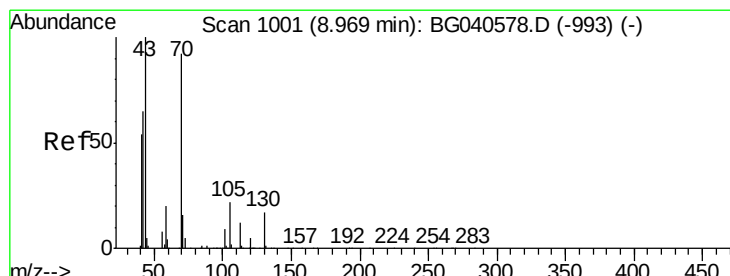
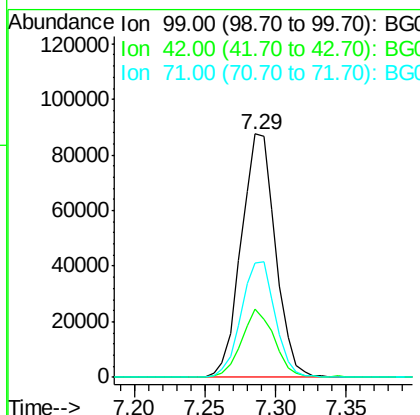
Tot Ion: 99 Resp: 148214

Ion Ratio Lower Upper

99 100

42 27.8 21.8 32.8

71 46.8 38.6 57.8



#19

n-Nitroso-di-n-propylamine

Concen: 16.590 ng

RT: 9.34 min Scan# 1063

Delta R.T. 0.37 min

Lab File: BG040631.D

Acq: 26 Apr 2019 16:12

Tgt Ion: 70 Resp: 65375

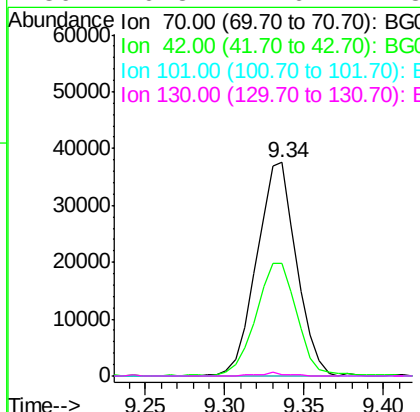
Ion Ratio Lower Upper

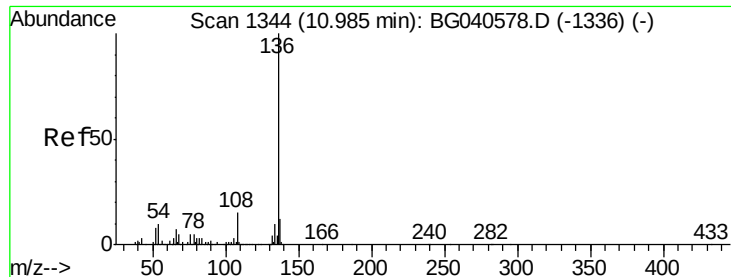
70 100

42 53.0 57.1 85.7#

101 0.0 7.8 11.8#

130 0.8 14.6 21.8#

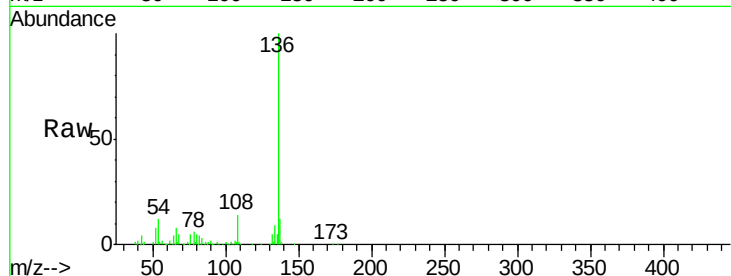




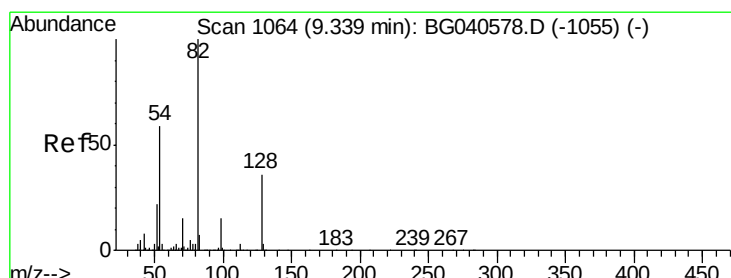
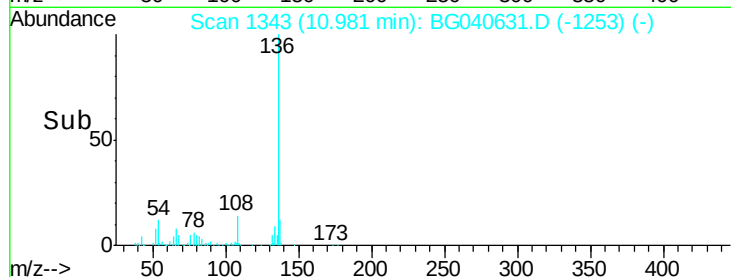
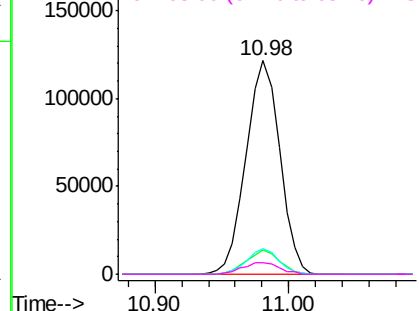
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.98 min Scan# 1343  
Delta R.T. -0.00 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

Instrument :  
BNA\_G  
ClientSampleId :  
S37-ER-2019-1

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 212977 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.5    | 9.7   | 14.5   |
| 54 12.1     | 8.6   | 12.8   |
| 68 5.3      | 4.8   | 7.2    |

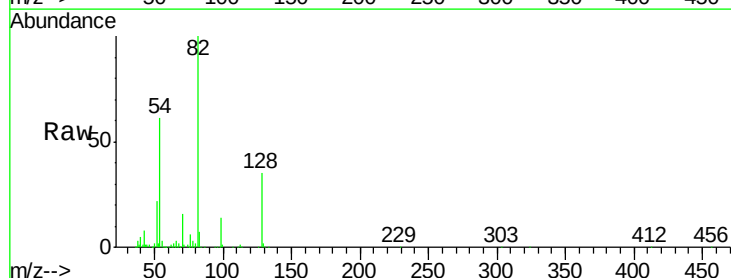


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

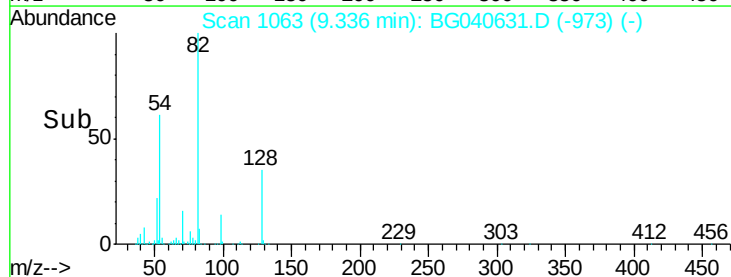
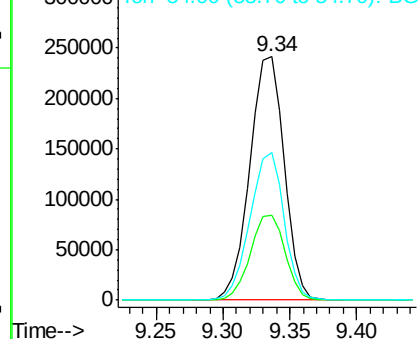


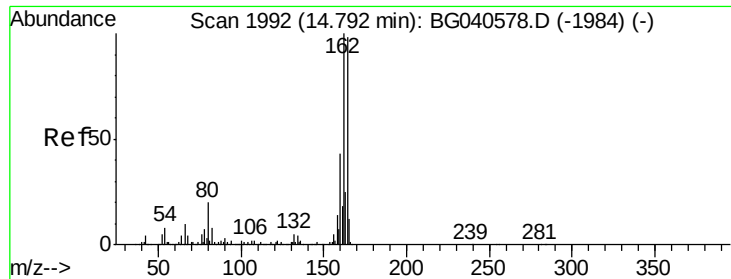
#23  
Nitrobenzene-d5  
Concen: 93.109 ng  
RT: 9.34 min Scan# 1063  
Delta R.T. -0.00 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 429166 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 34.7    | 28.9  | 43.3   |
| 54  | 60.6    | 47.2  | 70.8   |



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: 14.78 min Scan# 1990

Delta R.T. -0.01 min

Lab File: BG040631.D

Acq: 26 Apr 2019 16:12

Instrument :

BNA\_G

ClientSampleId :

S37-ER-2019-1

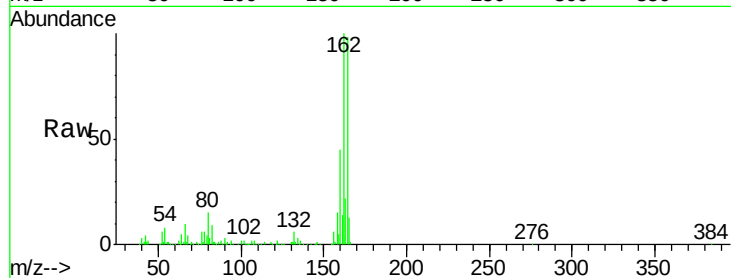
Tot Ion:164 Resp: 156932

Ion Ratio Lower Upper

164 100

162 102.3 81.9 122.9

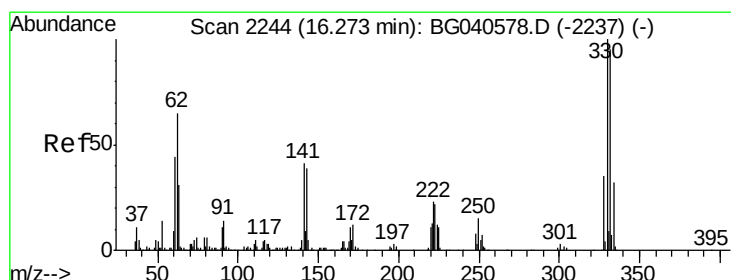
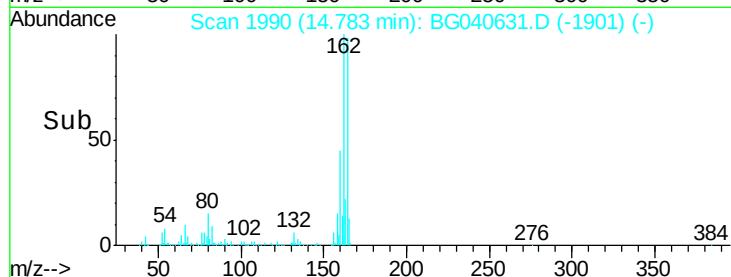
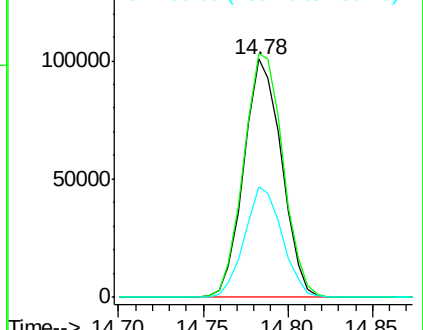
160 46.4 35.4 53.2



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: 138.879 ng

RT: 16.27 min Scan# 2243

Delta R.T. -0.00 min

Lab File: BG040631.D

Acq: 26 Apr 2019 16:12

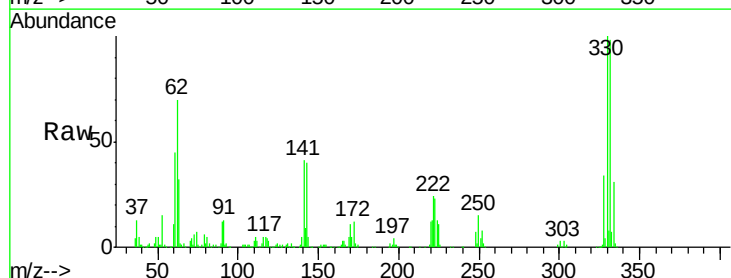
Tgt Ion:330 Resp: 299571

Ion Ratio Lower Upper

330 100

332 96.1 75.9 113.9

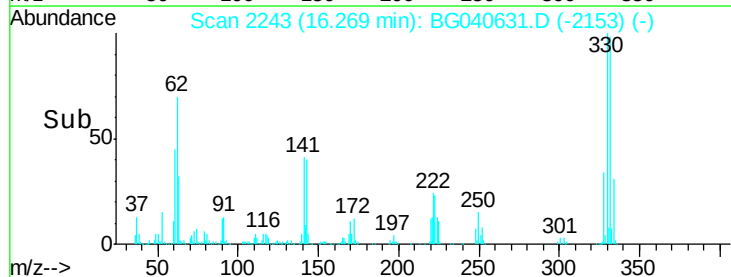
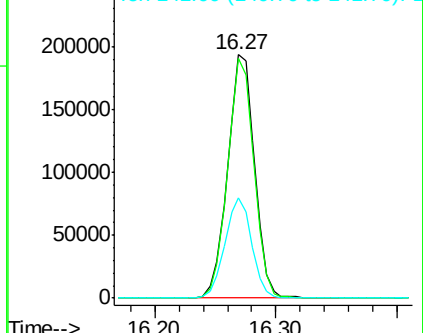
141 40.5 32.4 48.6

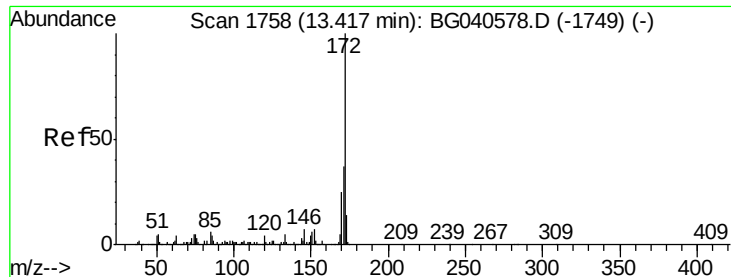


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

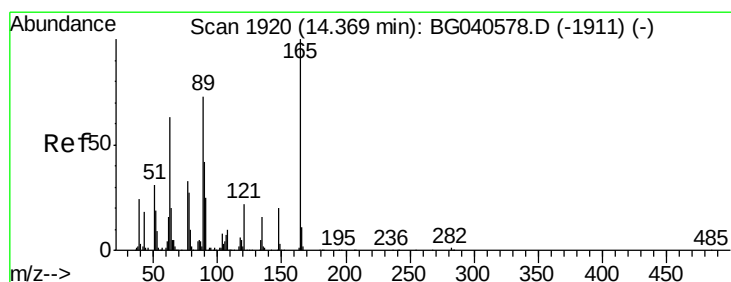
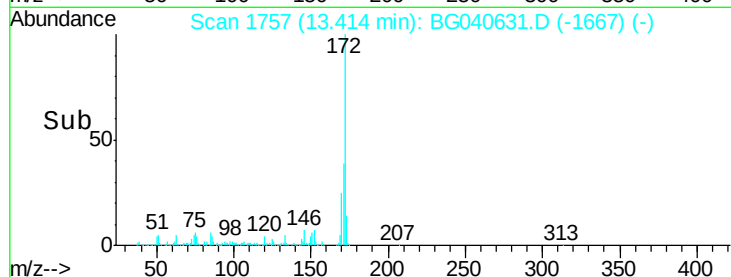
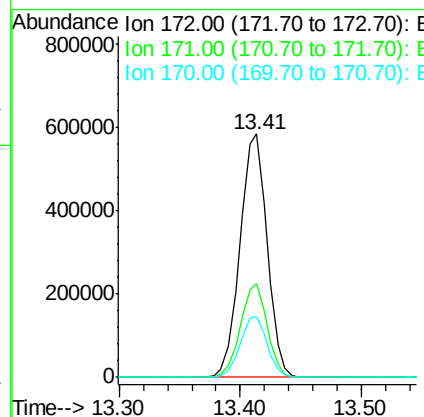
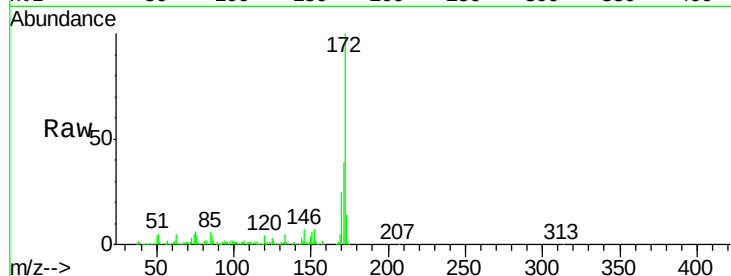




#45  
2-Fluorobiphenyl  
Concen: 83.856 ng  
RT: 13.41 min Scan# 1757  
Delta R.T. -0.00 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

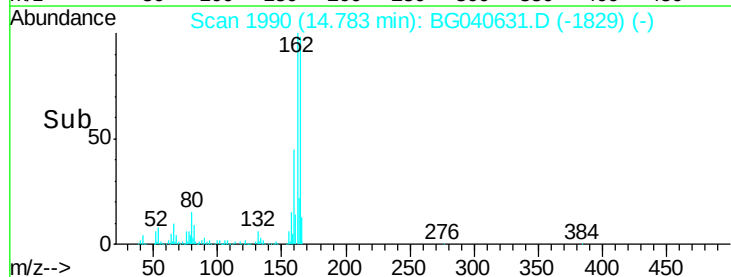
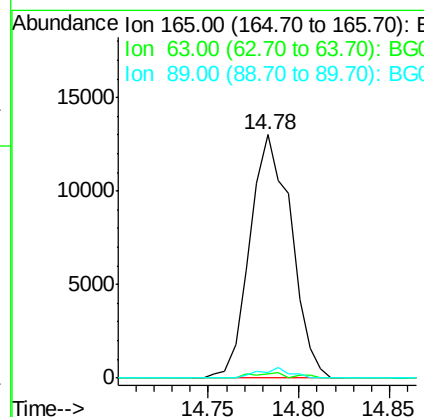
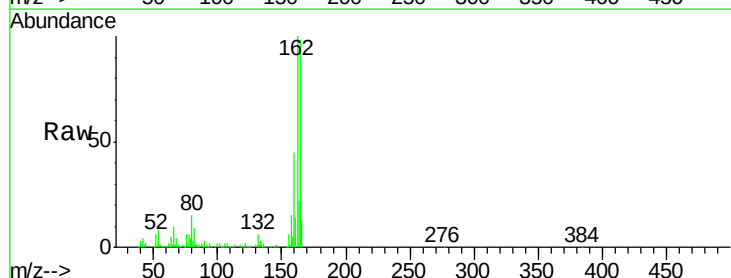
Instrument :  
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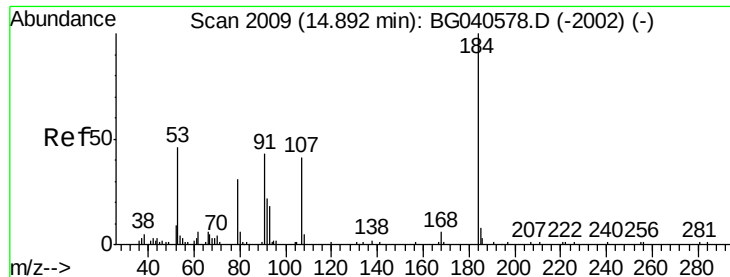
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.5  | 29.4  | 44.2  |
| 170     | 24.6  | 19.9  | 29.9  |



#51  
2,6-Dinitrotoluene  
Concen: 8.022 ng  
RT: 14.78 min Scan# 1990  
Delta R.T. 0.41 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.0   | 61.0  | 91.4# |
| 89      | 2.2   | 58.6  | 87.8# |

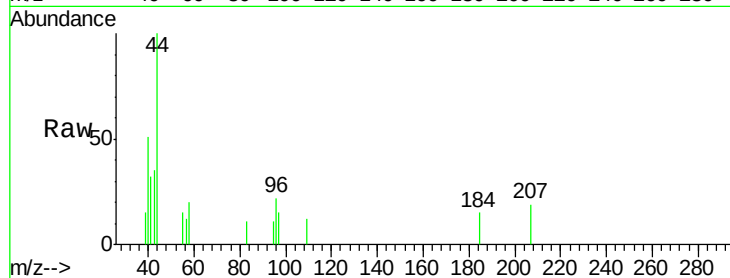




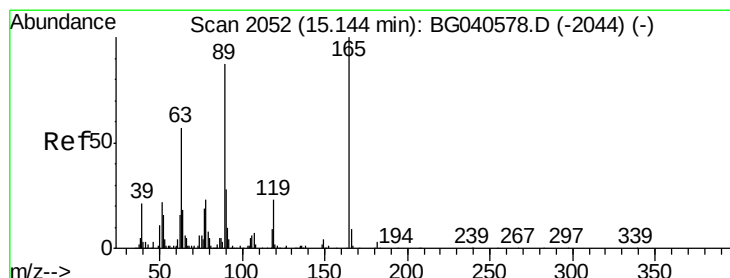
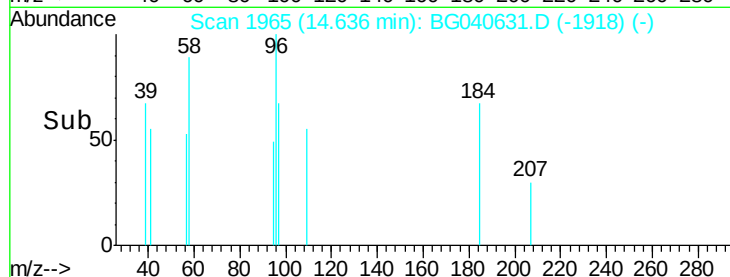
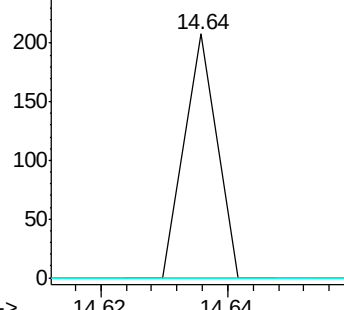
#54  
2,4-Dinitrophenol  
Concen: 7.061 ng  
RT: 14.64 min Scan# 1965  
Delta R.T. -0.26 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

Instrument :  
BNA\_G  
ClientSampleId :  
S37-ER-2019-1

Tot Ion:184 Resp: 73  
Ion Ratio Lower Upper  
184 100  
63 0.0 51.8 77.6#  
154 0.0 43.6 65.4#

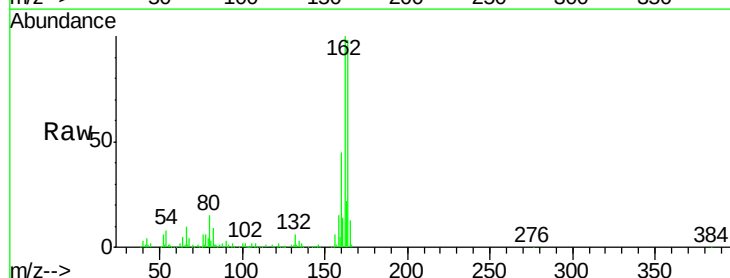


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 154.00 (153.70 to 154.70): E

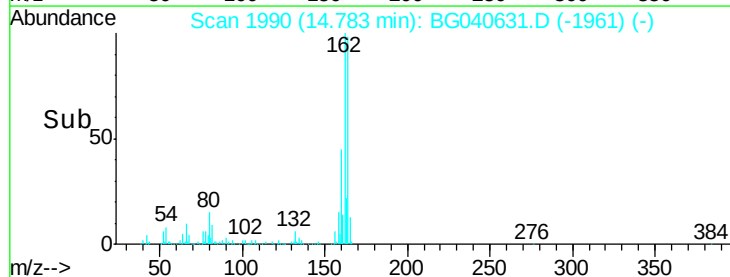
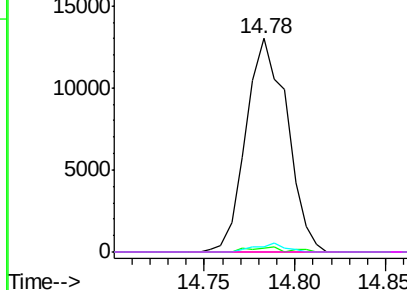


#57  
2,4-Dinitrotoluene  
Concen: 5.903 ng  
RT: 14.78 min Scan# 1990  
Delta R.T. -0.36 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

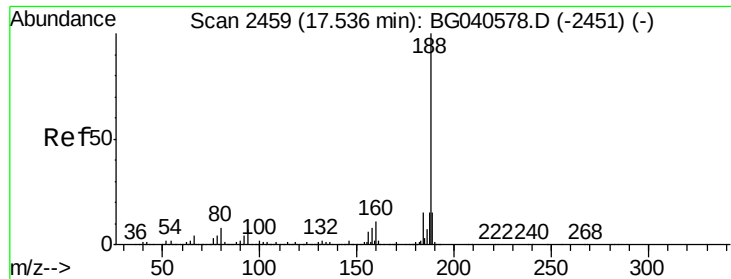
Tgt Ion:165 Resp: 20556  
Ion Ratio Lower Upper  
165 100  
63 2.0 45.8 68.8#  
89 2.2 69.4 104.2#  
182 0.0 2.2 3.4#



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# 2458

Delta R.T. -0.00 min

Lab File: BG040631.D

Acq: 26 Apr 2019 16:12

Instrument :

BNA\_G

ClientSampleId :

S37-ER-2019-1

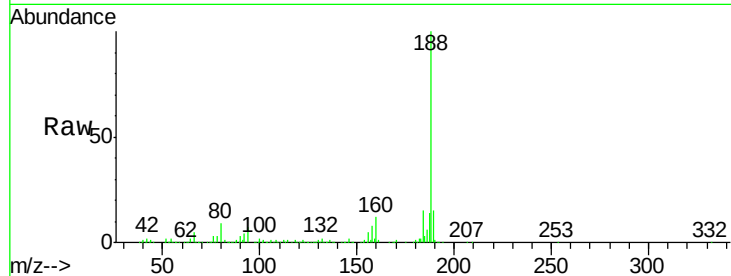
Tot Ion:188 Resp: 407534

Ion Ratio Lower Upper

188 100

94 6.8 5.6 8.4

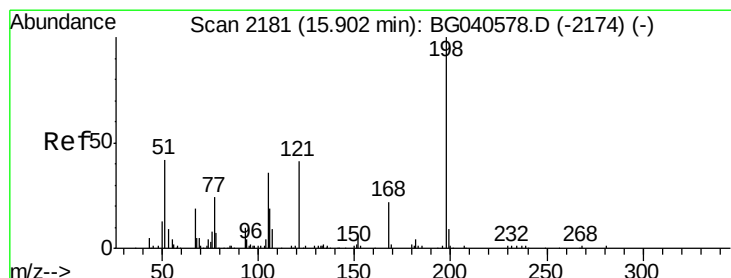
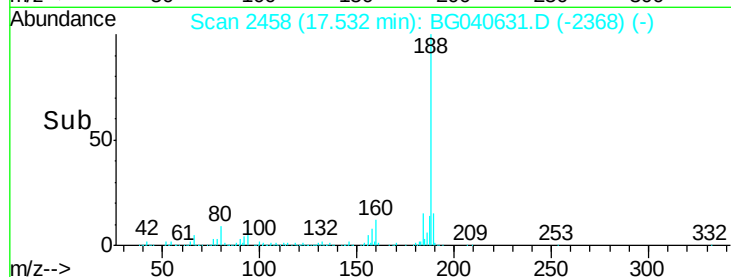
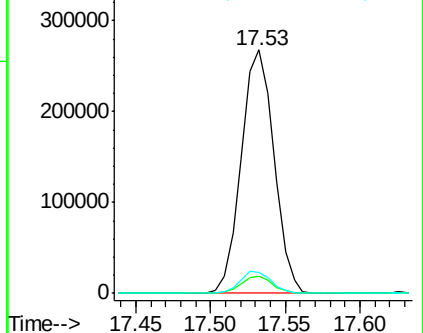
80 8.6 6.4 9.6



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: 7.595 ng

RT: 16.27 min Scan# 2243

Delta R.T. 0.37 min

Lab File: BG040631.D

Acq: 26 Apr 2019 16:12

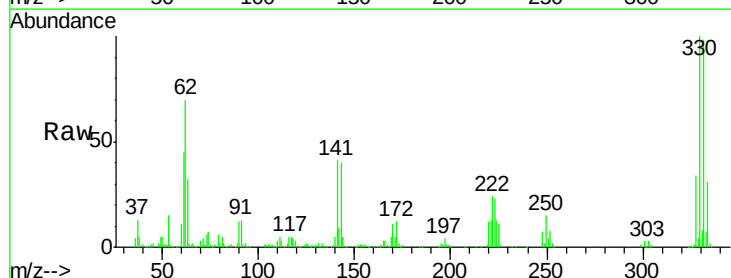
Tgt Ion:198 Resp: 1164

Ion Ratio Lower Upper

198 100

51 27.5 35.9 75.9#

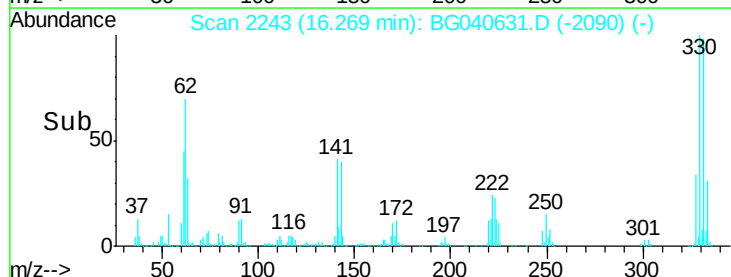
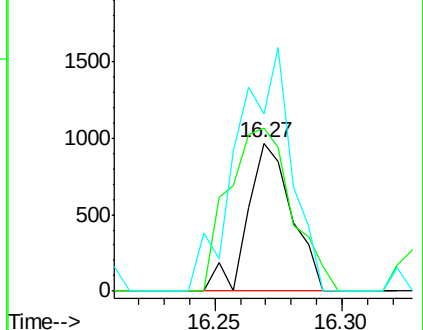
105 30.0 21.2 61.2

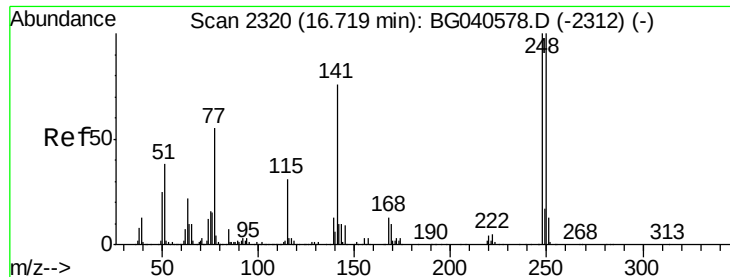


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

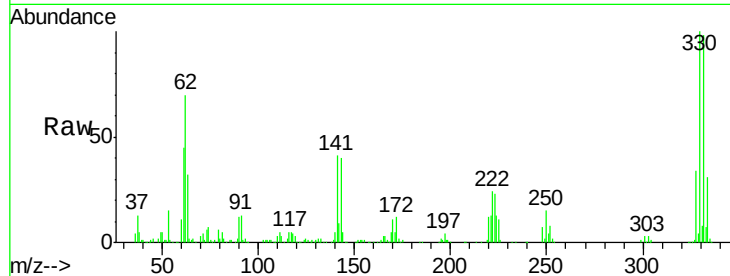




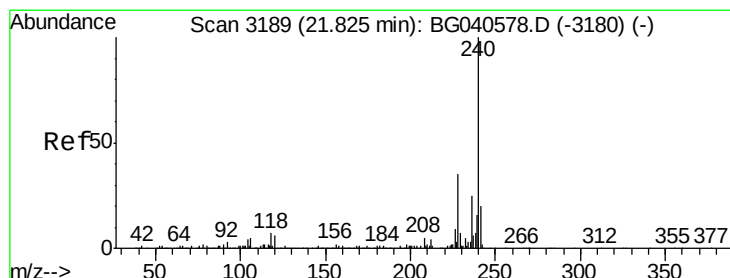
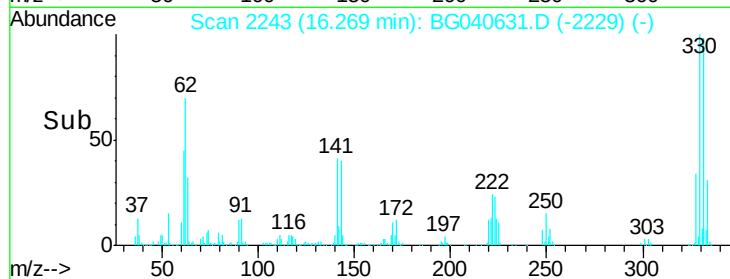
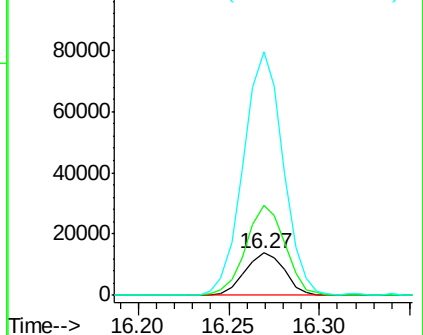
#67  
4-Bromophenyl-phenylether  
Concen: 4.172 ng  
RT: 16.27 min Scan# 2243  
Delta R.T. -0.45 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

Instrument :  
BNA\_G  
ClientSampled :  
S37-ER-2019-1

Tot Ion:248 Resp: 21182  
Ion Ratio Lower Upper  
248 100  
250 158.5 79.8 119.6#  
141 428.5 60.8 91.2#

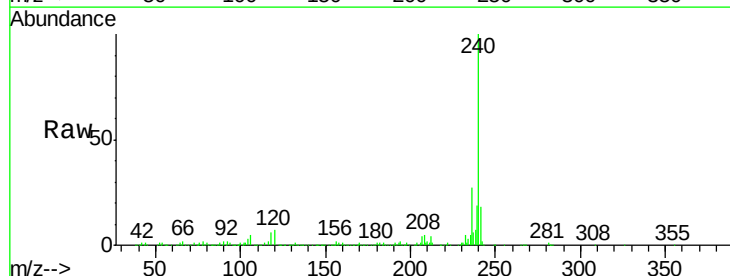


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

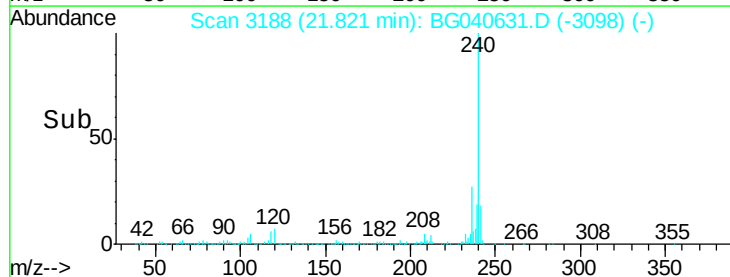
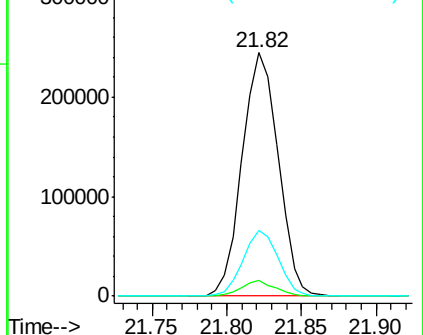


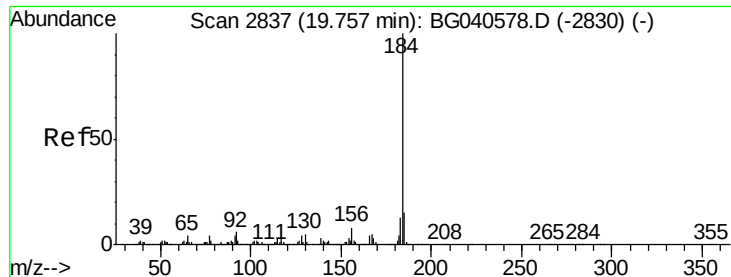
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.82 min Scan# 3188  
Delta R.T. -0.00 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

Tgt Ion:240 Resp: 410540  
Ion Ratio Lower Upper  
240 100  
120 6.7 5.0 7.6  
236 26.9 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: 3.161 ng

RT: 20.13 min Scan# 2900

Delta R.T. 0.37 min

Lab File: BG040631.D

Acq: 26 Apr 2019 16:12

Instrument :

BNA\_G

ClientSampleId :

S37-ER-2019-1

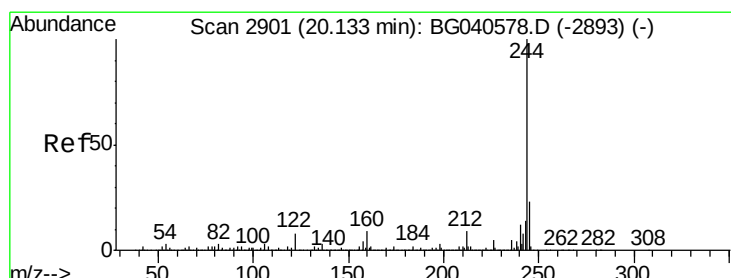
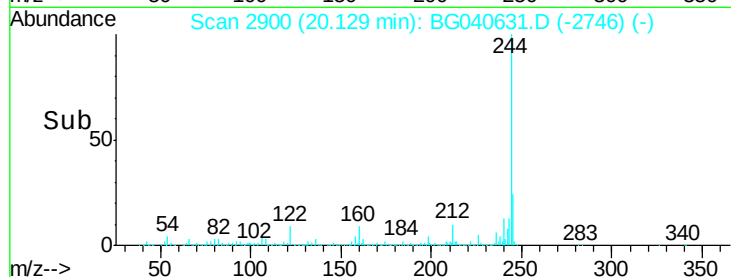
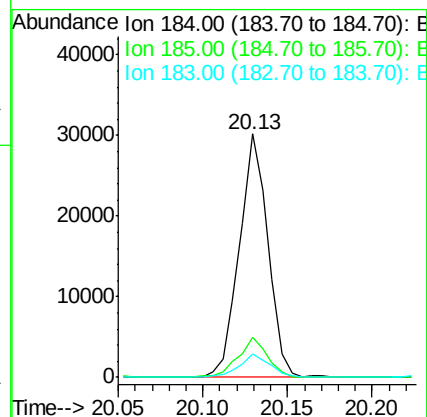
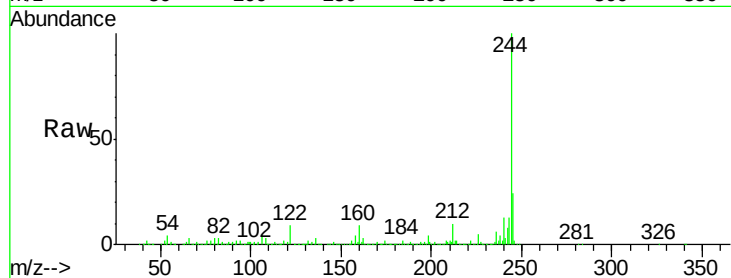
Tot Ion:184 Resp: 35533

Ion Ratio Lower Upper

184 100

185 16.2 11.8 17.8

183 9.7 10.2 15.2#



#79

Terphenyl-d14

Concen: 93.786 ng

RT: 20.13 min Scan# 2900

Delta R.T. -0.00 min

Lab File: BG040631.D

Acq: 26 Apr 2019 16:12

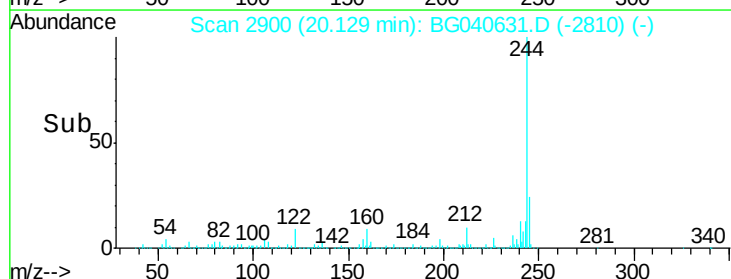
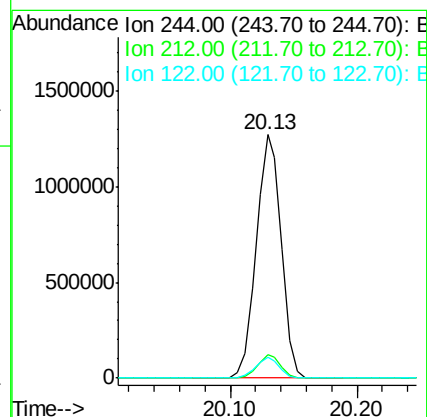
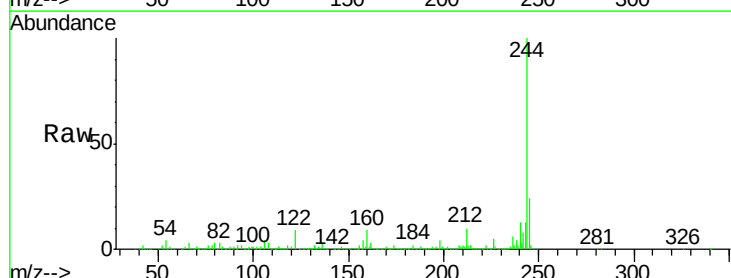
Tgt Ion:244 Resp: 1737944

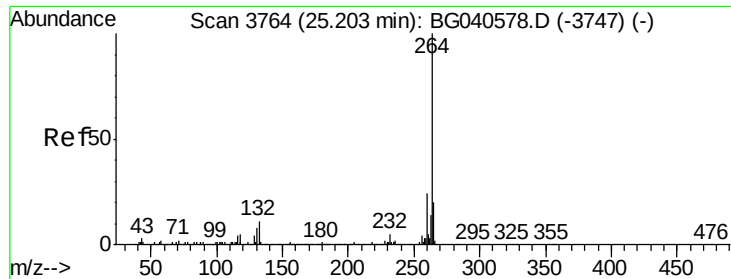
Ion Ratio Lower Upper

244 100

212 9.8 7.2 10.8

122 8.7 6.6 10.0





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.21 min Scan# 3764  
Delta R.T. 0.00 min  
Lab File: BG040631.D  
Acq: 26 Apr 2019 16:12

Instrument :  
BNA\_G  
ClientSampleId :  
S37-ER-2019-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.7  | 19.2  | 28.8  |
| 265     | 20.6  | 16.6  | 25.0  |

