

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG100118\  
 Data File : BG037084.D  
 Acq On : 1 Oct 2018 20:15  
 Operator : JU/SJ  
 Sample : J5154-03  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OILY-STONES

Quant Time: Oct 02 05:31:32 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG092018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 24 10:41:23 2018  
 Response via : Initial Calibration

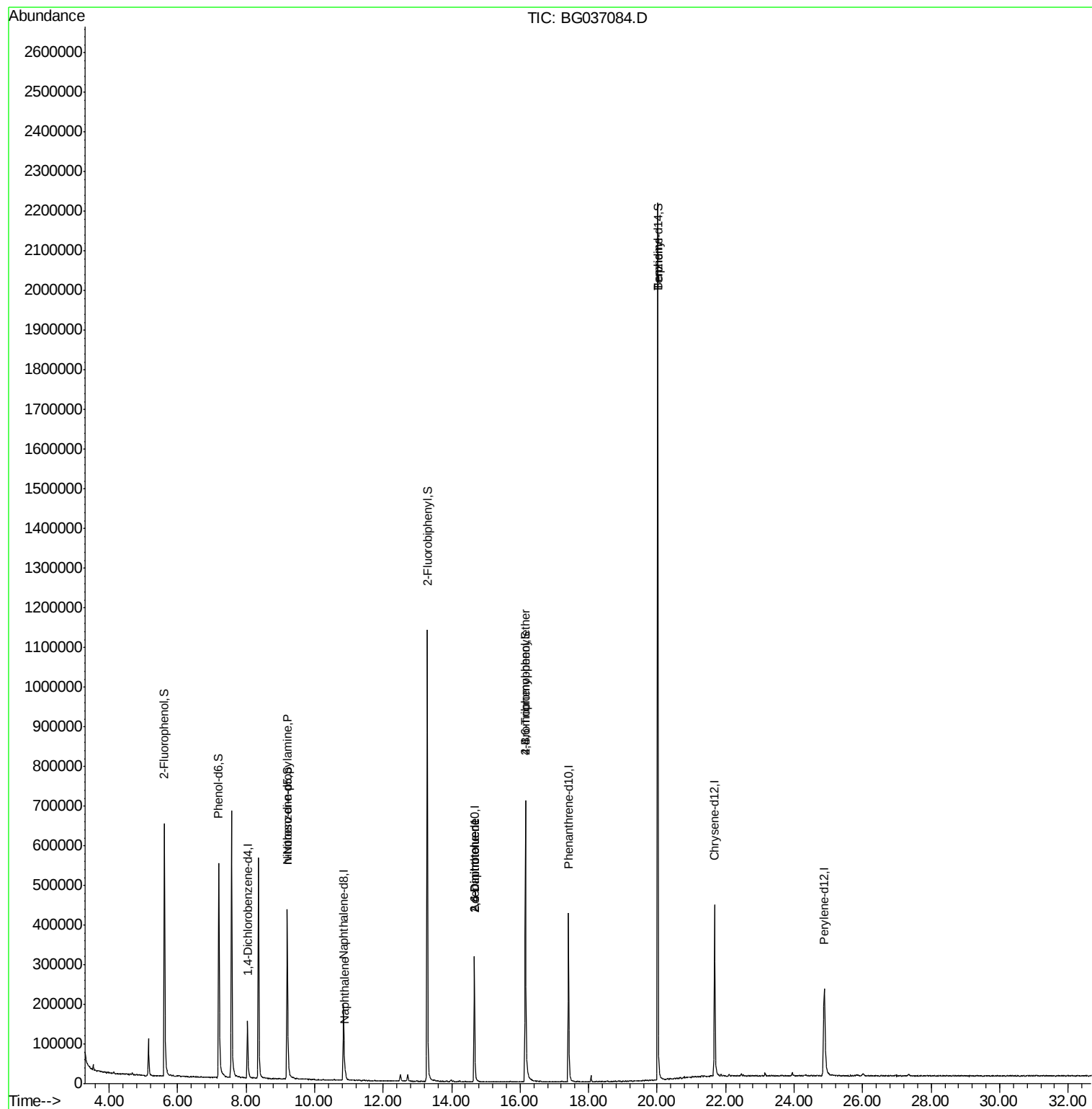
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.04  | 152  | 48061    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.84 | 136  | 195314   | 20.00  | ng    | -0.01       |
| 38) Acenaphthene-d10           | 14.67 | 164  | 118767   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10           | 17.41 | 188  | 301296   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12               | 21.67 | 240  | 312266   | 20.00  | ng    | -0.01       |
| 86) Perylene-d12               | 24.88 | 264  | 298108   | 20.00  | ng    | -0.03       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.61  | 112  | 306604   | 122.34 | ng    | 0.00        |
| 7) Phenol-d6                   | 7.20  | 99   | 367232   | 94.71  | ng    | -0.01       |
| 23) Nitrobenzene-d5            | 9.20  | 82   | 315899   | 86.61  | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol       | 16.15 | 330  | 154587   | 108.79 | ng    | -0.01       |
| 44) 2-Fluorobiphenyl           | 13.28 | 172  | 646164   | 81.03  | ng    | -0.01       |
| 78) Terphenyl-d14              | 20.02 | 244  | 1115649  | 93.95  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 41493    | 12.864 | ng    | Qvalue # 74 |
| 31) Naphthalene                | 10.89 | 128  | 18920    | 2.036  | ng    | # 97        |
| 50) 2,6-Dinitrotoluene         | 14.67 | 165  | 15228    | 7.301  | ng    | # 21        |
| 56) 2,4-Dinitrotoluene         | 14.67 | 165  | 15228    | 5.232  | ng    | # 19        |
| 66) 4-Bromophenyl-phenylether  | 16.15 | 248  | 10855    | 3.167  | ng    | # 1         |
| 76) Benzidine                  | 20.01 | 184  | 18912    | 2.003  | ng    | # 91        |

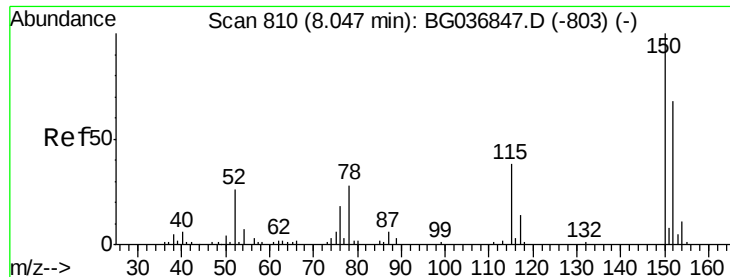
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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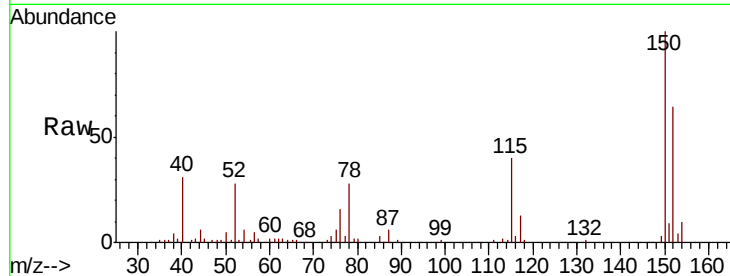


#1

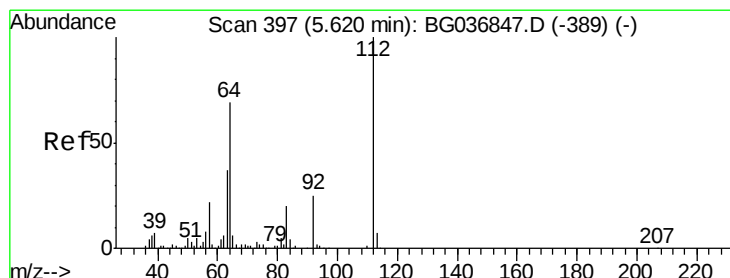
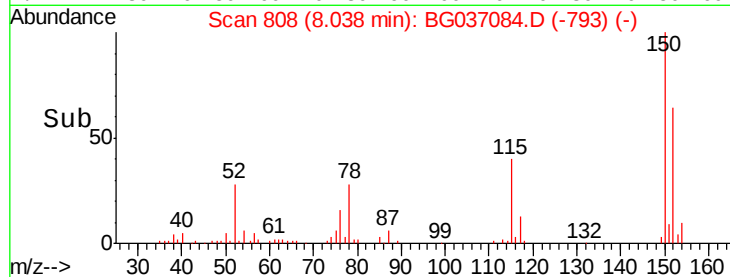
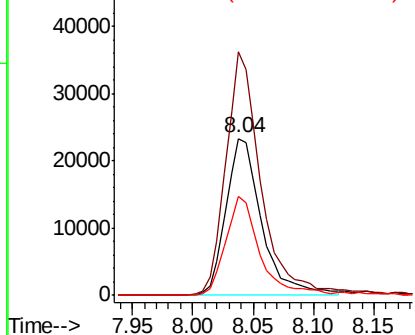
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.04 min Scan# 808  
Delta R.T. -0.01 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

Instrument :  
BNA\_G  
ClientSampleId :  
OILY-STONES

Tgt Ion:152 Resp: 48061  
Ion Ratio Lower Upper  
152 100  
150 155.1 119.5 179.3  
115 62.7 44.5 66.7



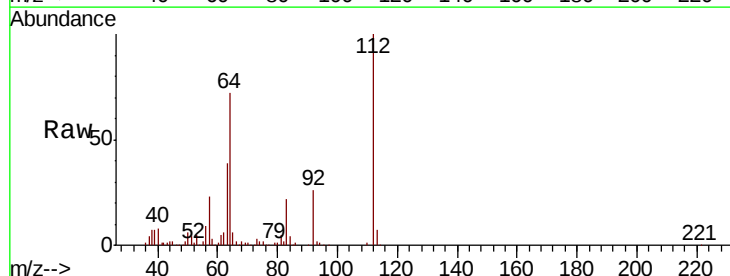
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



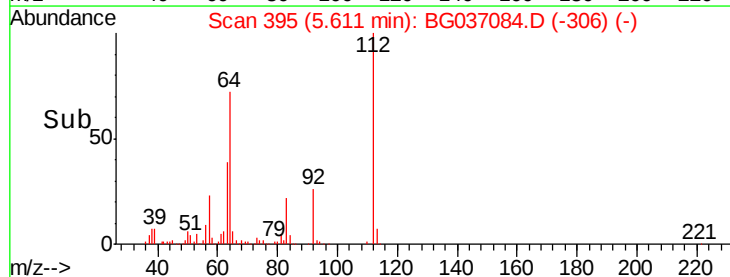
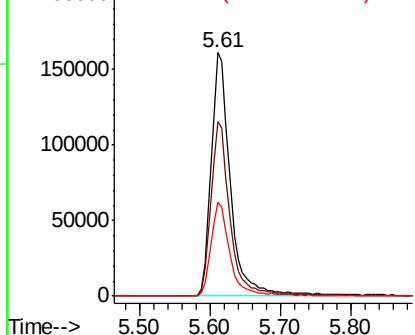
#5

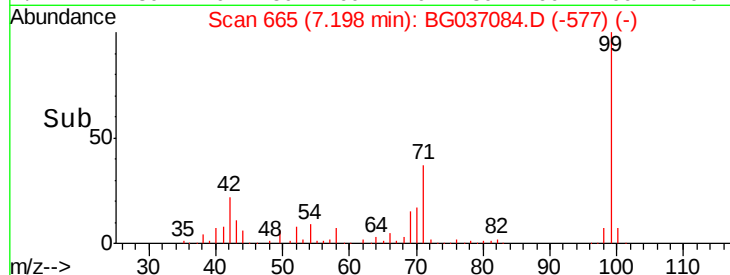
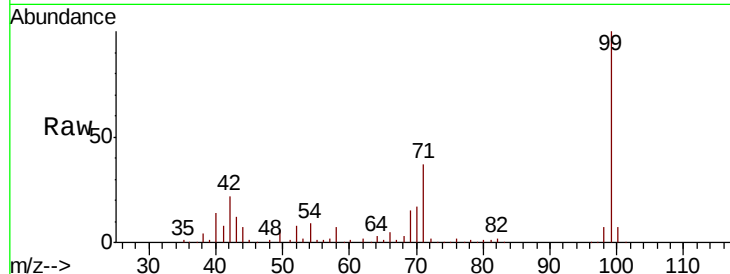
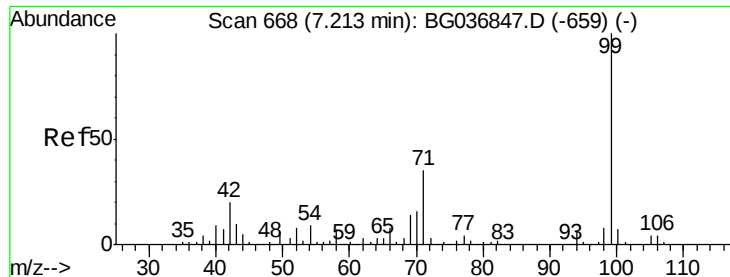
2-Fluorophenol  
Concen: 122.345 ng  
RT: 5.61 min Scan# 395  
Delta R.T. -0.01 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

Tgt Ion:112 Resp: 306604  
Ion Ratio Lower Upper  
112 100  
64 71.7 57.2 85.8  
63 38.6 30.8 46.2



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: 94.713 ng

RT: 7.20 min Scan# 665

Delta R.T. -0.01 min

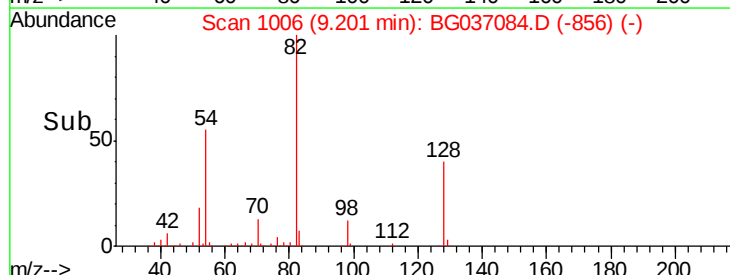
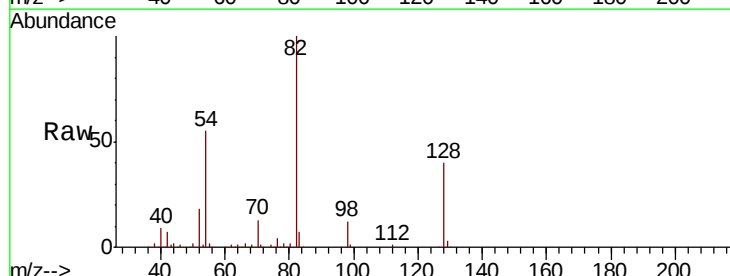
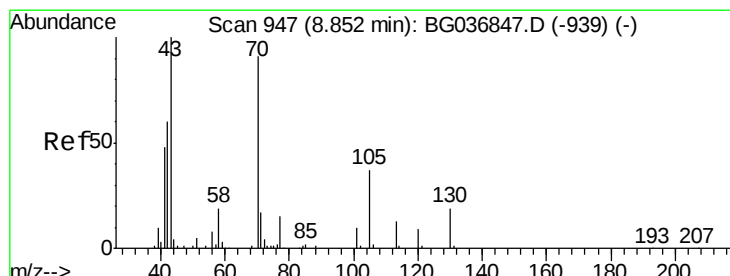
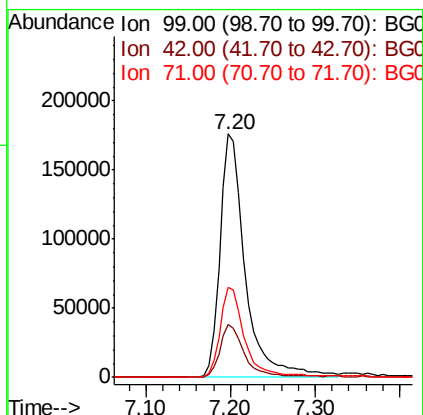
Lab File: BG037084.D

Acq: 1 Oct 2018 20:15

Instrument :  
BNA\_G  
ClientSampleId :  
OILY-STONES

Tgt Ion: 99 Resp: 367232

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.0  | 16.5  | 24.7  |
| 71  | 36.9  | 29.4  | 44.2  |



#19

n-Nitroso-di-n-propylamine

Concen: 12.864 ng

RT: 9.20 min Scan# 1006

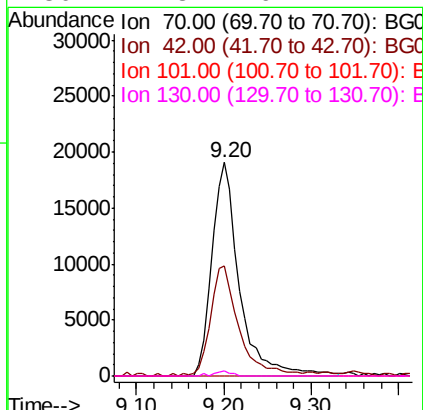
Delta R.T. 0.35 min

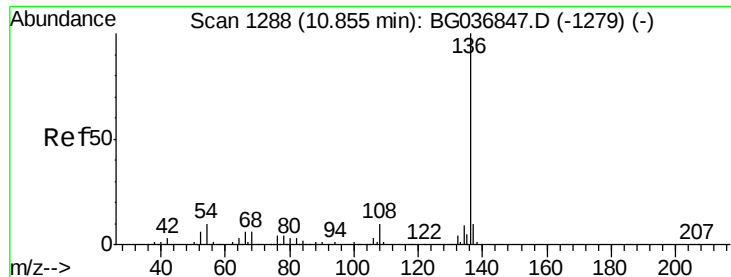
Lab File: BG037084.D

Acq: 1 Oct 2018 20:15

Tgt Ion: 70 Resp: 41493

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 51.6  | 56.2  | 84.4# |
| 101 | 0.0   | 7.8   | 11.6# |
| 130 | 2.3   | 16.2  | 24.2# |

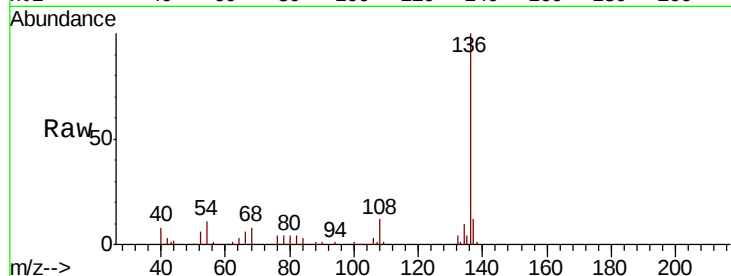




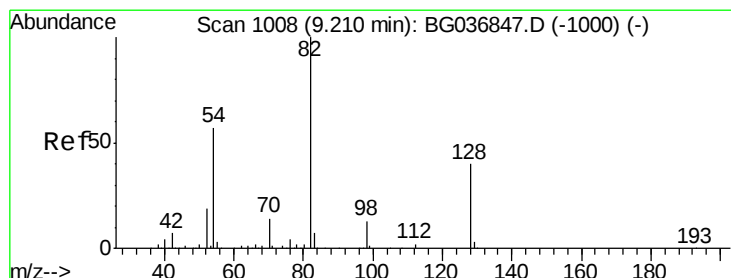
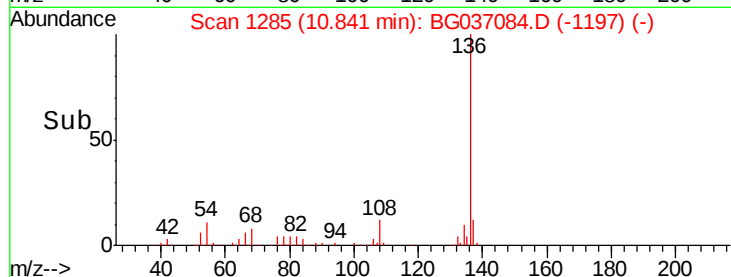
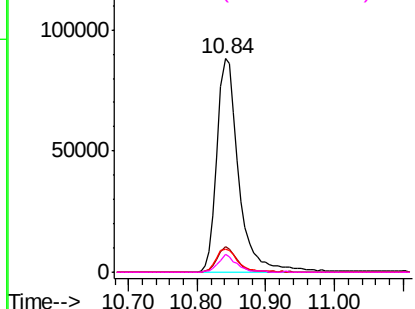
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.84 min Scan# 1285  
Delta R.T. -0.01 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

Instrument :  
BNA\_G  
ClientSampleId :  
OILY-STONES

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 195314 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.7  | 8.8   | 13.2   |
| 54       | 10.8  | 9.2   | 13.8   |
| 68       | 8.2   | 5.8   | 8.6    |

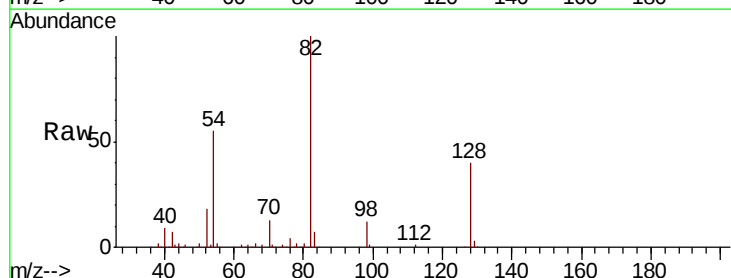


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

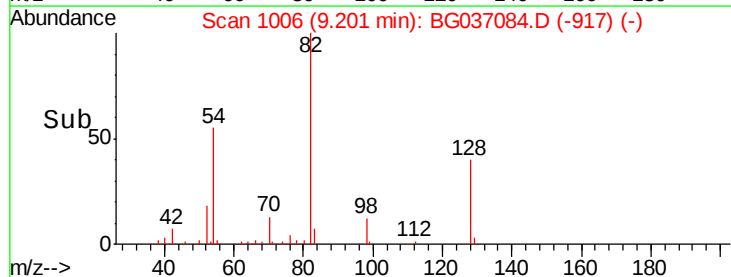
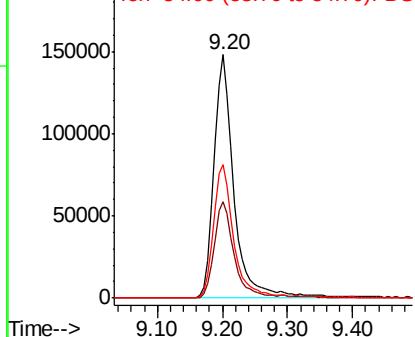


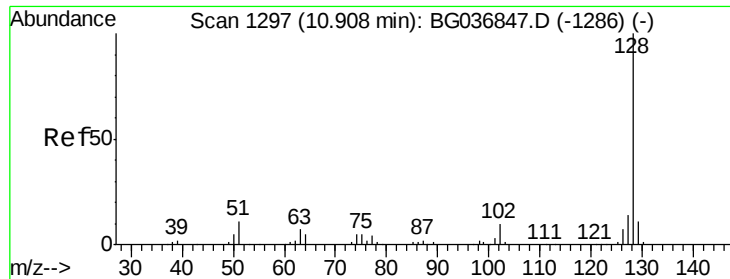
#23  
Nitrobenzene-d5  
Concen: 86.613 ng  
RT: 9.20 min Scan# 1006  
Delta R.T. -0.01 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 315899 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 39.8  | 33.3  | 49.9   |
| 54       | 55.1  | 45.1  | 67.7   |



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

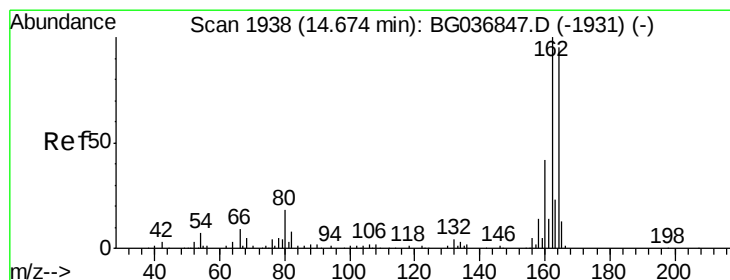
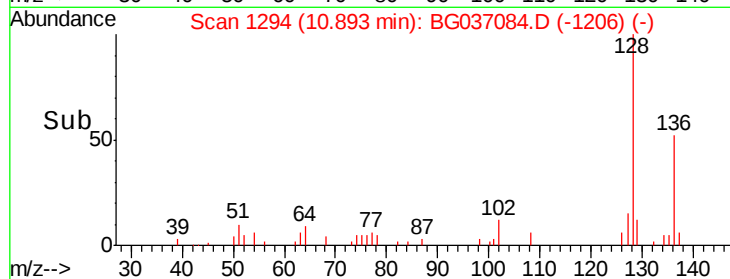
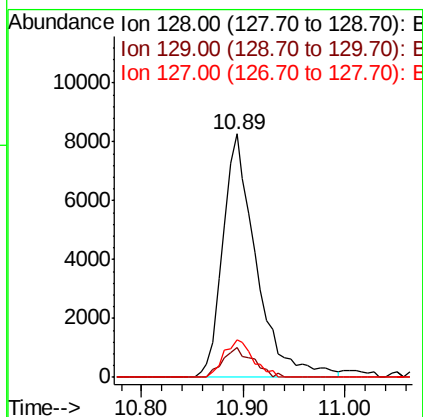
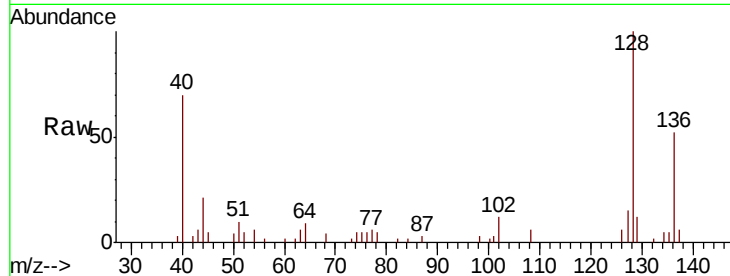




#31  
Naphthalene  
Concen: 2.036 ng  
RT: 10.89 min Scan# 1294  
Delta R.T. -0.01 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

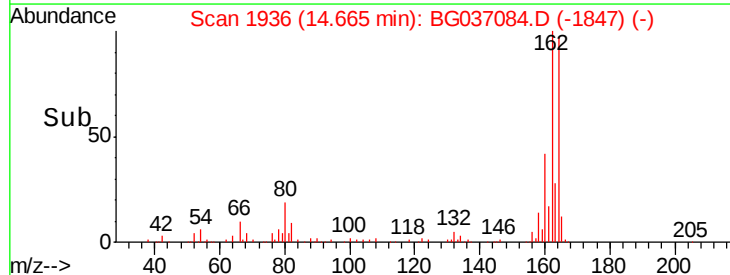
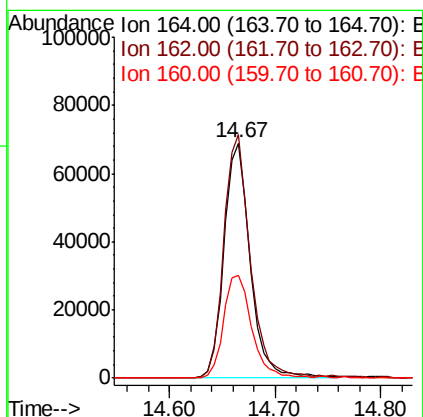
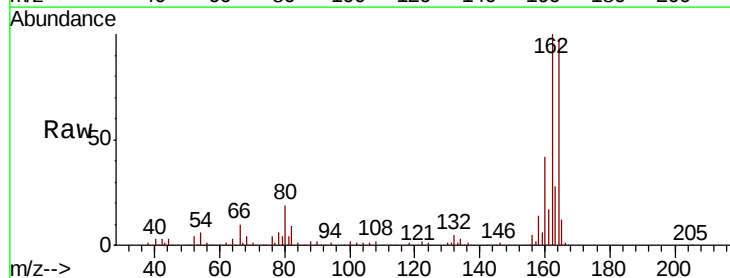
Instrument :  
BNA\_G  
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OILY-STONES

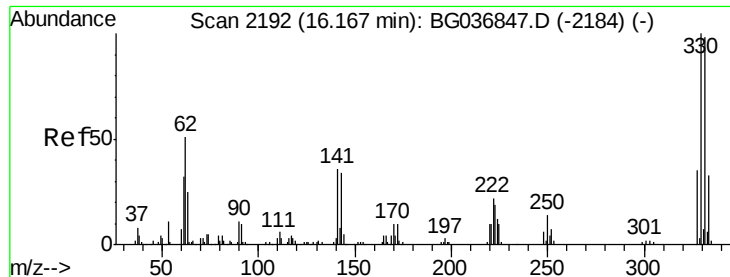
Tgt Ion:128 Resp: 18920  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.4 14.2  
127 15.4 11.0 16.4



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.67 min Scan# 1936  
Delta R.T. -0.01 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

Tgt Ion:164 Resp: 118767  
Ion Ratio Lower Upper  
164 100  
162 103.6 80.7 121.1  
160 43.6 35.3 52.9

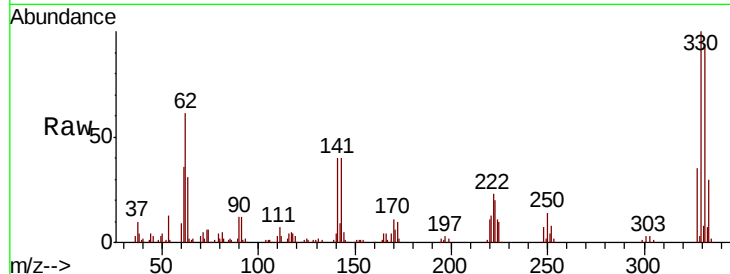




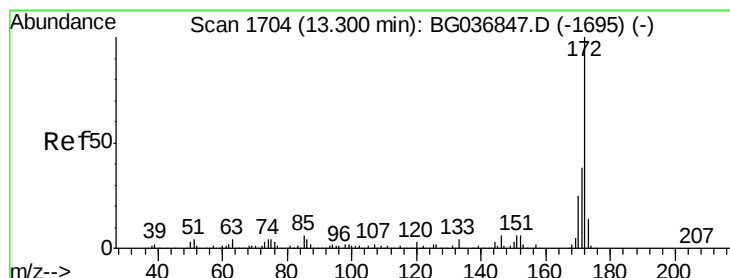
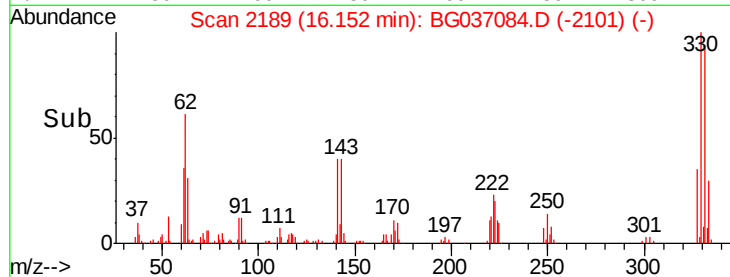
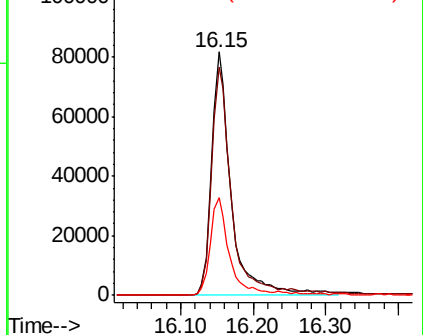
#41  
 2,4,6-Tribromophenol  
 Concen: 108.789 ng  
 RT: 16.15 min Scan# 2189  
 Delta R.T. -0.01 min  
 Lab File: BG037084.D  
 Acq: 1 Oct 2018 20:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OILY-STONES

Tgt Ion:330 Resp: 154587  
 Ion Ratio Lower Upper  
 330 100  
 332 94.4 75.4 113.2  
 141 39.7 30.7 46.1

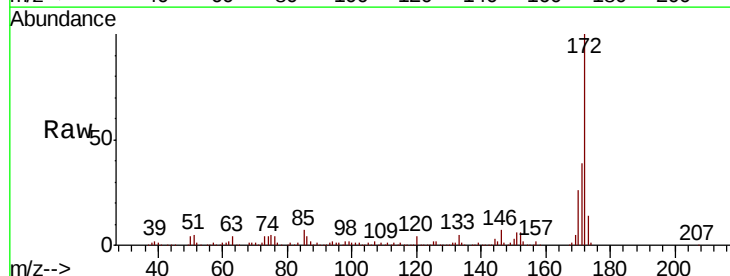


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

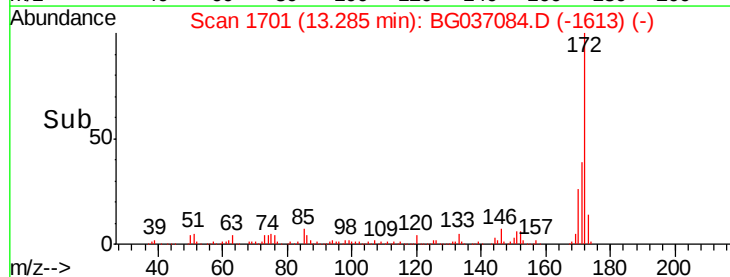
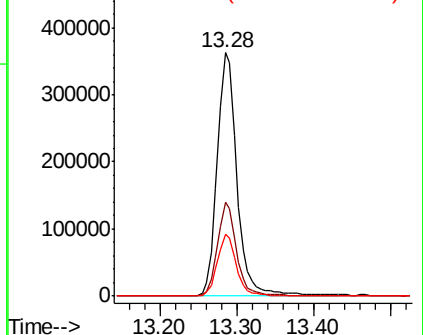


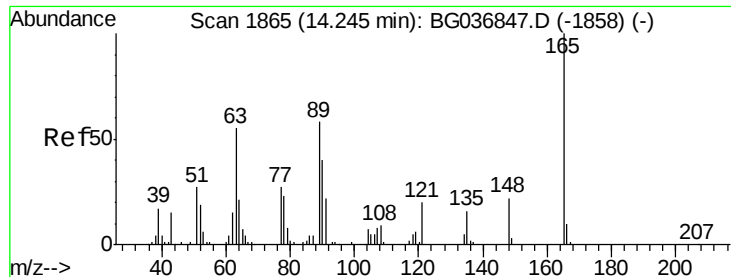
#44  
 2-Fluorobiphenyl  
 Concen: 81.032 ng  
 RT: 13.28 min Scan# 1701  
 Delta R.T. -0.01 min  
 Lab File: BG037084.D  
 Acq: 1 Oct 2018 20:15

Tgt Ion:172 Resp: 646164  
 Ion Ratio Lower Upper  
 172 100  
 171 38.8 31.3 46.9  
 170 25.6 21.0 31.6



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

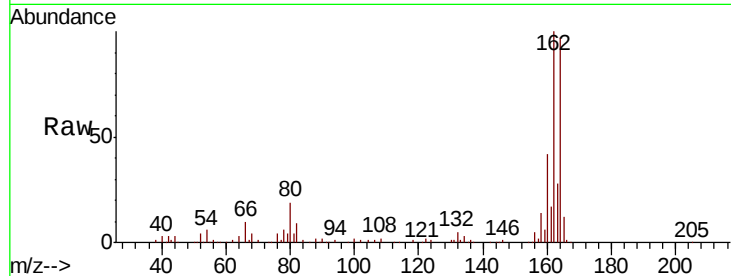




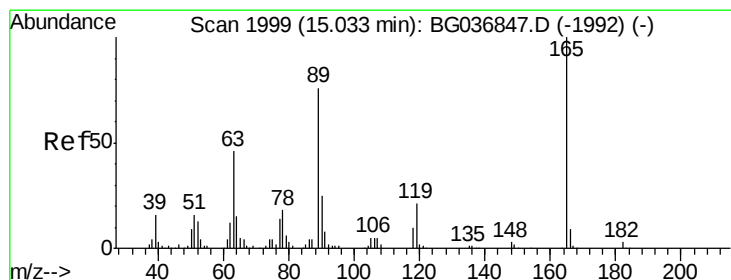
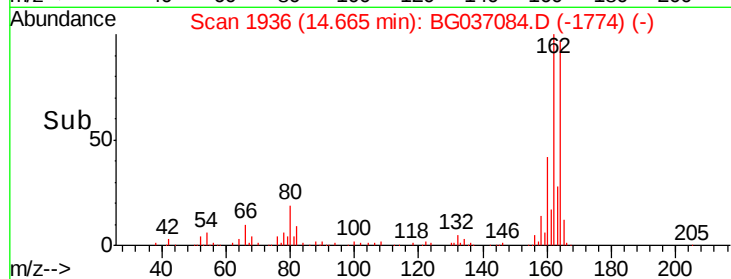
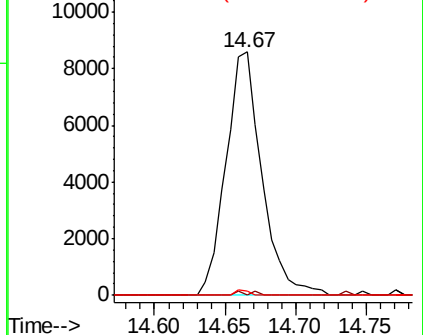
#50  
 2,6-Dinitrotoluene  
 Concen: 7.301 ng  
 RT: 14.67 min Scan# 1936  
 Delta R.T. 0.42 min  
 Lab File: BG037084.D  
 Acq: 1 Oct 2018 20:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OILY-STONES

Tgt Ion:165 Resp: 15228  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 50.1 75.1#  
 89 1.8 47.8 71.6#

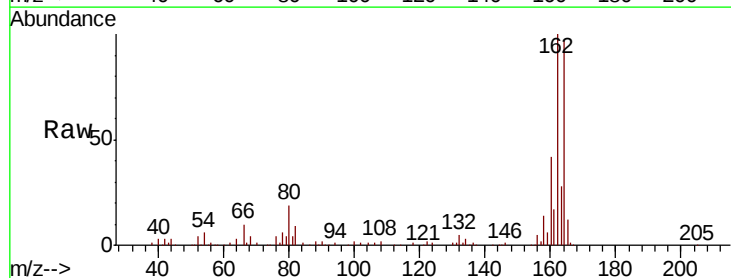


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC

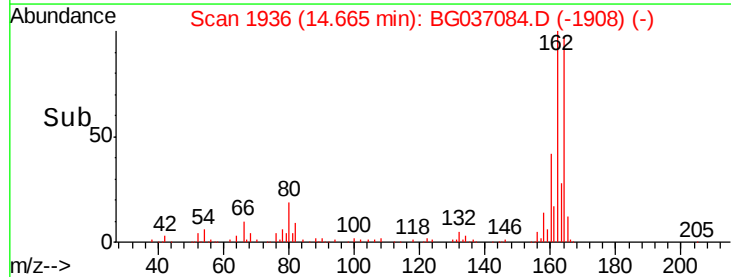
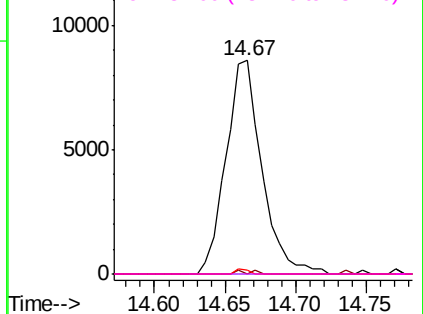


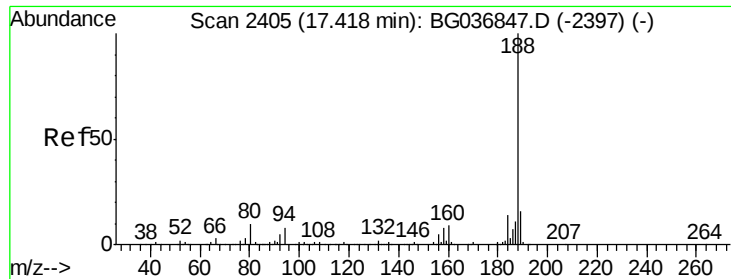
#56  
 2,4-Dinitrotoluene  
 Concen: 5.232 ng  
 RT: 14.67 min Scan# 1936  
 Delta R.T. -0.37 min  
 Lab File: BG037084.D  
 Acq: 1 Oct 2018 20:15

Tgt Ion:165 Resp: 15228  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 40.1 60.1#  
 89 1.8 63.7 95.5#  
 182 0.0 2.5 3.7#



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

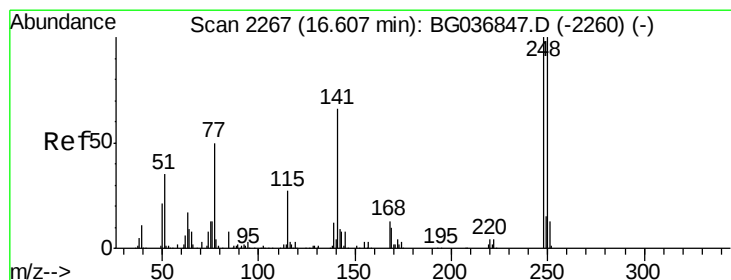
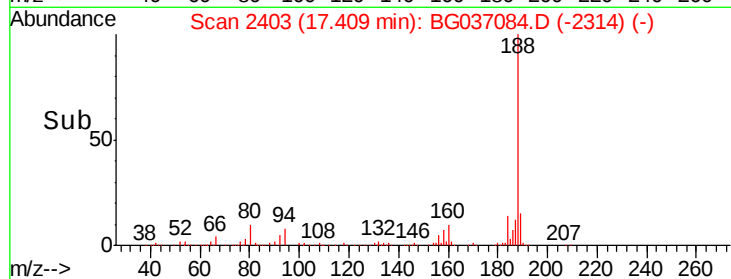
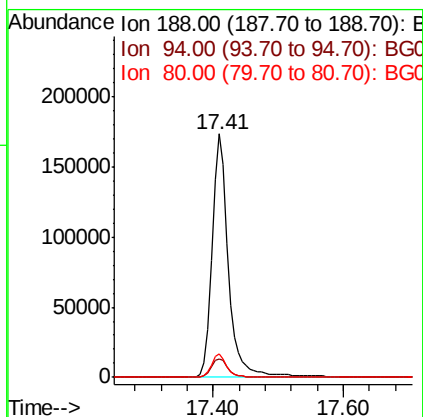
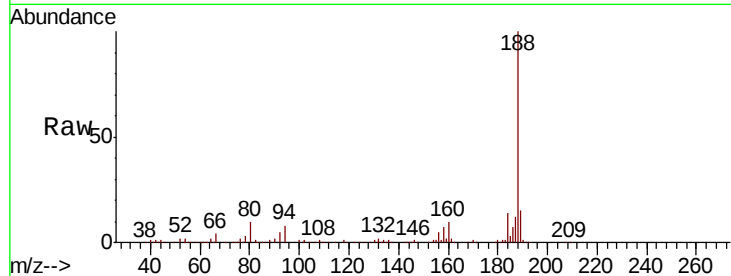




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.41 min Scan# 2403  
Delta R.T. -0.01 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

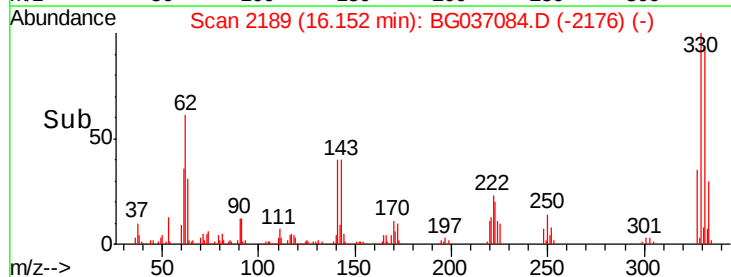
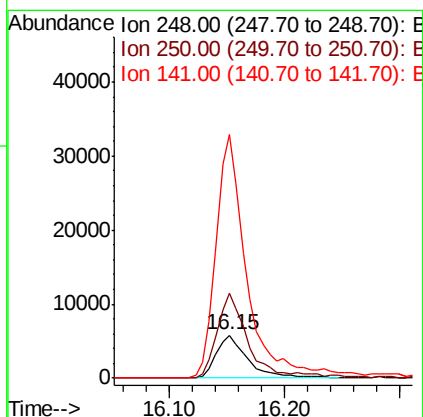
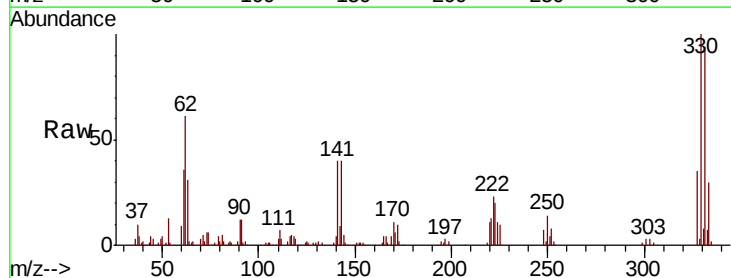
Instrument :  
BNA\_G  
ClientSampleId :  
OILY-STONES

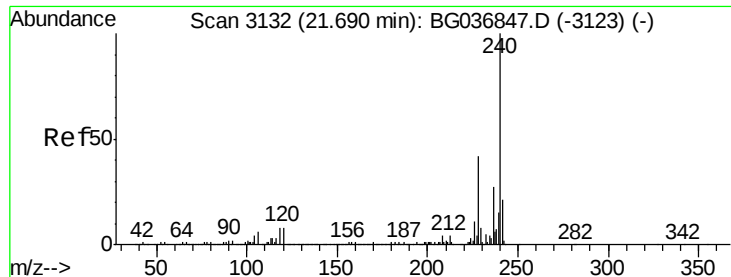
Tgt Ion:188 Resp: 301296  
Ion Ratio Lower Upper  
188 100  
94 7.8 6.7 10.1  
80 9.9 8.1 12.1



#66  
4-Bromophenyl-phenylether  
Concen: 3.167 ng  
RT: 16.15 min Scan# 2189  
Delta R.T. -0.46 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

Tgt Ion:248 Resp: 10855  
Ion Ratio Lower Upper  
248 100  
250 198.5 78.1 117.1#  
141 565.2 53.7 80.5#

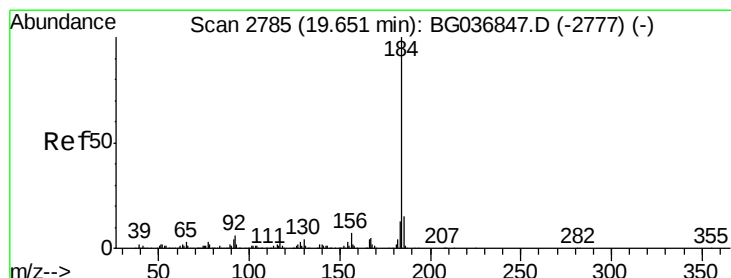
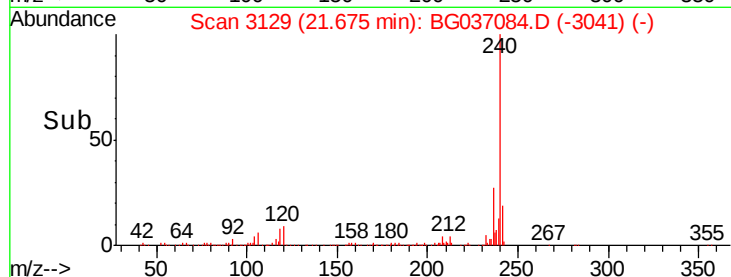
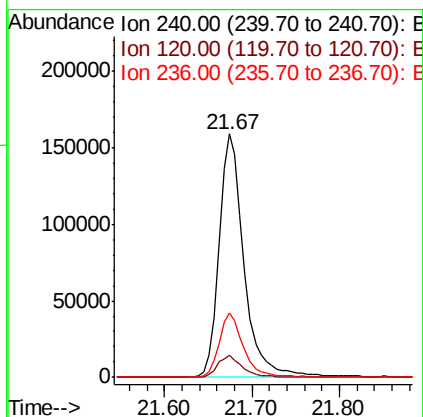
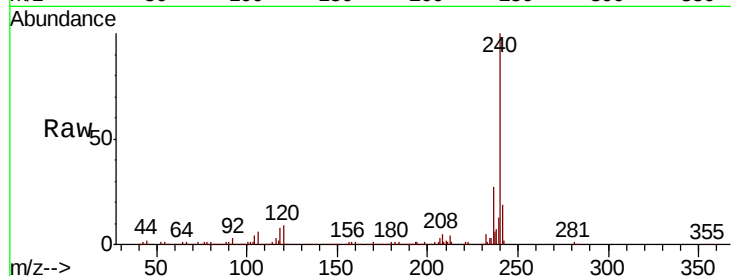




#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.67 min Scan# 3129  
Delta R.T. -0.01 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

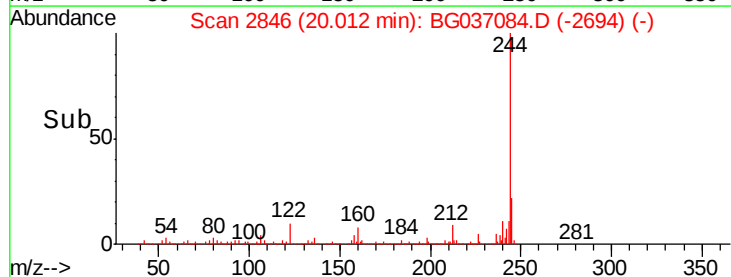
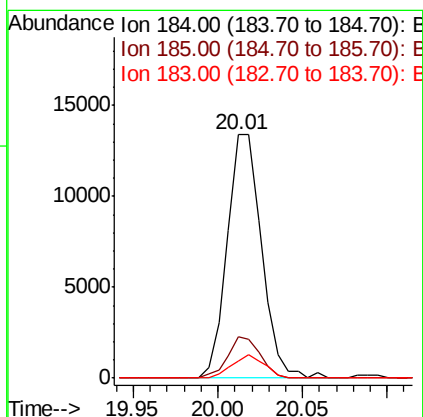
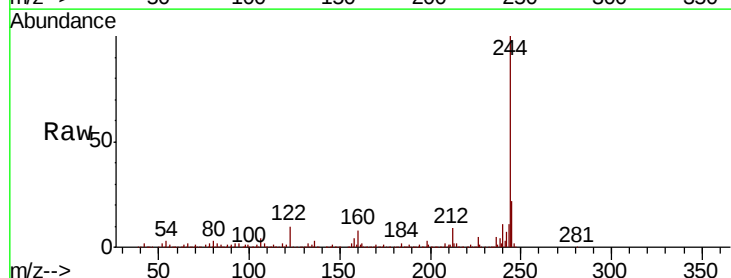
Instrument :  
BNA\_G  
ClientSampleId :  
OILY-STONES

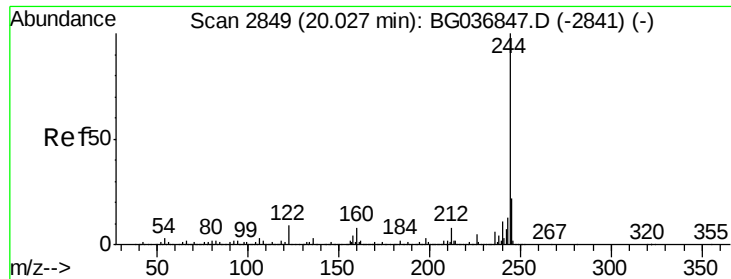
Tgt Ion:240 Resp: 312266  
Ion Ratio Lower Upper  
240 100  
120 9.3 6.9 10.3  
236 26.5 21.2 31.8



#76  
Benzidine  
Concen: 2.003 ng  
RT: 20.01 min Scan# 2846  
Delta R.T. 0.36 min  
Lab File: BG037084.D  
Acq: 1 Oct 2018 20:15

Tgt Ion:184 Resp: 18912  
Ion Ratio Lower Upper  
184 100  
185 17.0 12.6 18.8  
183 7.3 10.9 16.3#

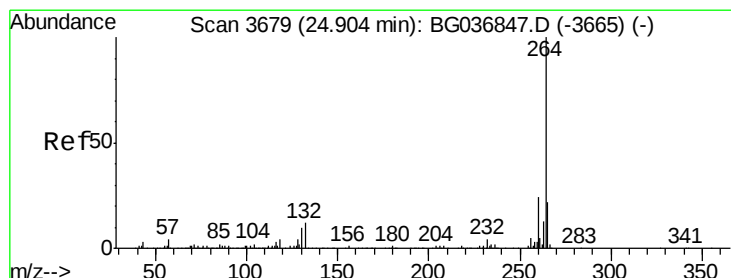
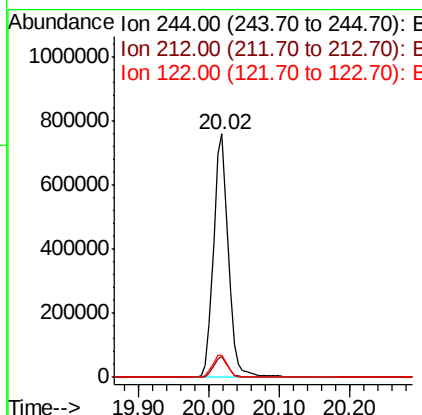
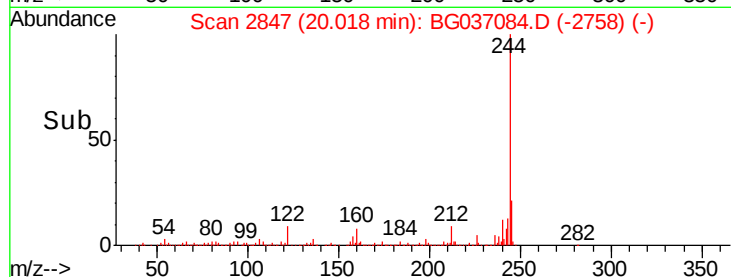
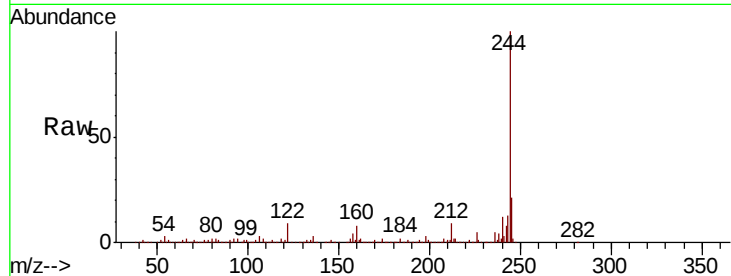




#78  
 Terphenyl-d14  
 Concen: 93.945 ng  
 RT: 20.02 min Scan# 2847  
 Delta R.T. -0.01 min  
 Lab File: BG037084.D  
 Acq: 1 Oct 2018 20:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OILY-STONES

Tgt Ion:244 Resp: 1115649  
 Ion Ratio Lower Upper  
 244 100  
 212 8.8 7.0 10.6  
 122 9.2 7.1 10.7



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.88 min Scan# 3674  
 Delta R.T. -0.03 min  
 Lab File: BG037084.D  
 Acq: 1 Oct 2018 20:15

Tgt Ion:264 Resp: 298108  
 Ion Ratio Lower Upper  
 264 100  
 260 24.5 19.6 29.4  
 265 21.7 17.4 26.0

