

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG120718\  
 Data File : BG038412.D  
 Acq On : 7 Dec 2018 20:47  
 Operator : JU/SJ  
 Sample : J6199-02  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SU-01-120518-A

Quant Time: Dec 07 22:14:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG120418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 04 17:15:40 2018  
 Response via : Initial Calibration

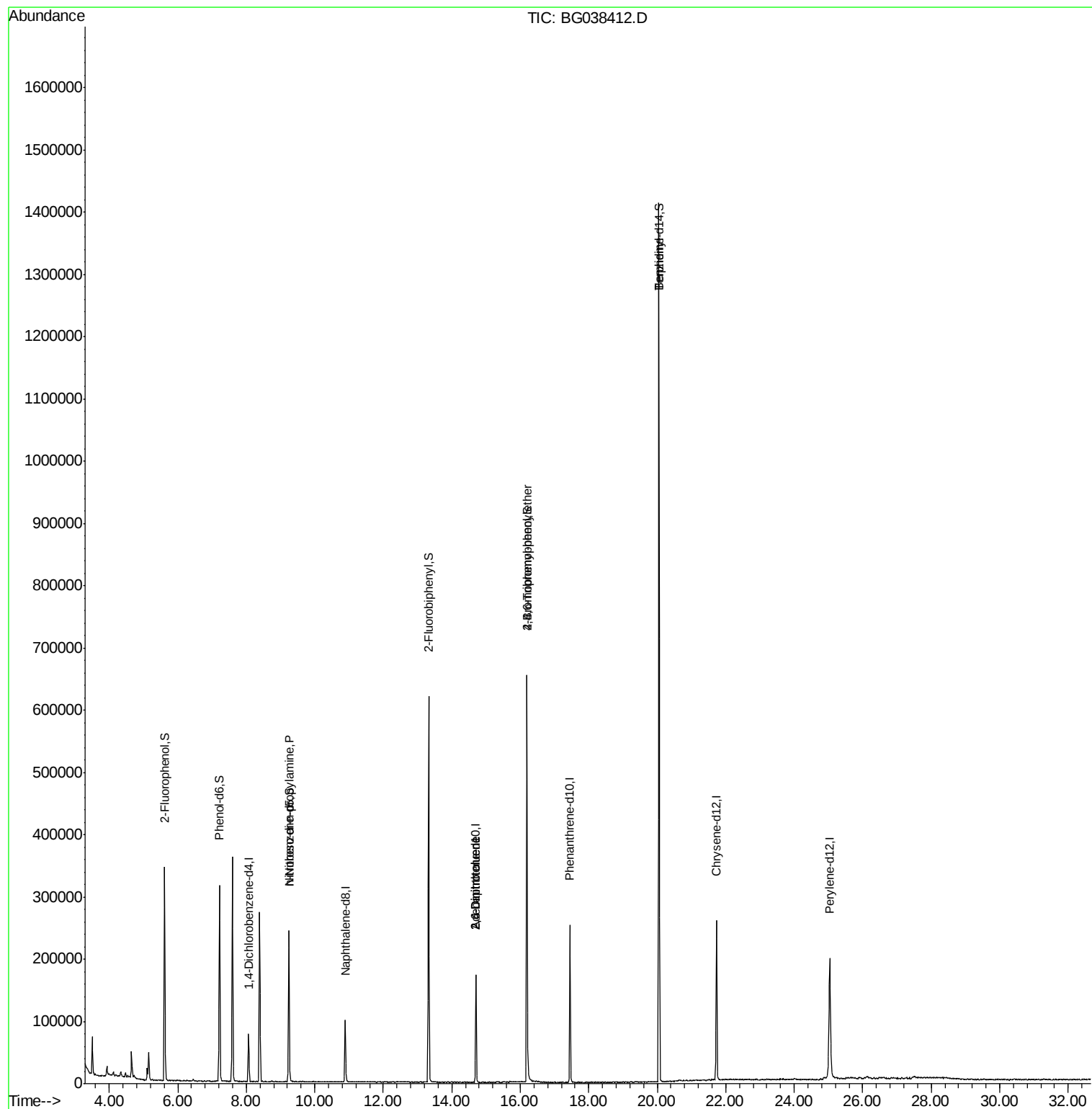
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 22078    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.89 | 136  | 94111    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.70 | 164  | 61932    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.45 | 188  | 165459   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.73 | 240  | 166018   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 25.04 | 264  | 224379   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 144252   | 115.62 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 178519   | 99.00  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.24  | 82   | 147743   | 77.94  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 123565   | 162.52 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.32 | 172  | 349748   | 80.47  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.05 | 244  | 681245   | 87.91  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.24  | 70   | 20351    | 14.077 | ng    | # 77     |
| 51) 2,6-Dinitrotoluene         | 14.70 | 165  | 7918     | 6.978  | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 14.70 | 165  | 7918     | 5.059  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248  | 8847     | 4.951  | ng    | # 1      |
| 77) Benzidine                  | 20.05 | 184  | 11728    | 2.093  | ng    | # 93     |

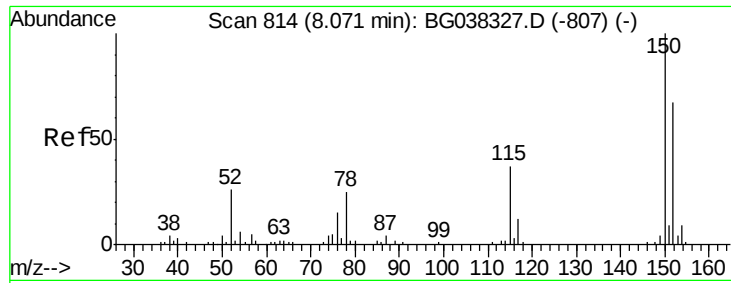
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG120718\  
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BNA\_G  
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SU-01-120518-A

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG120418.M  
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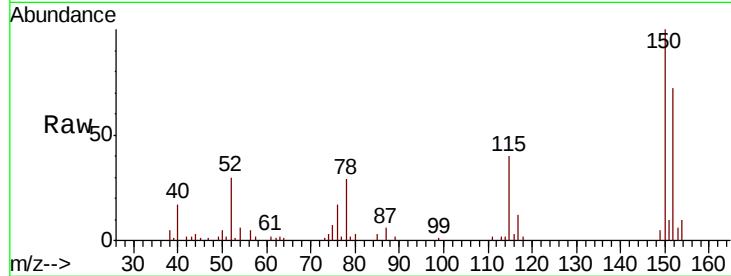


#1

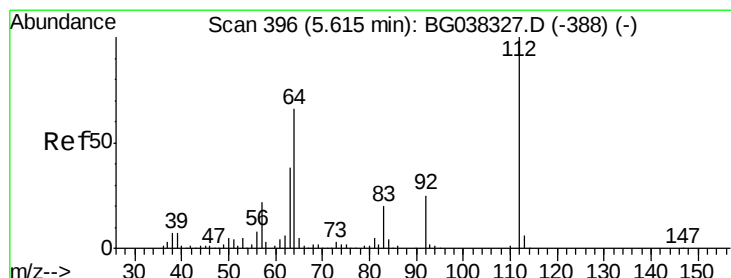
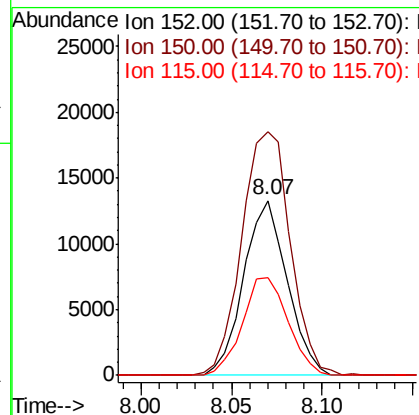
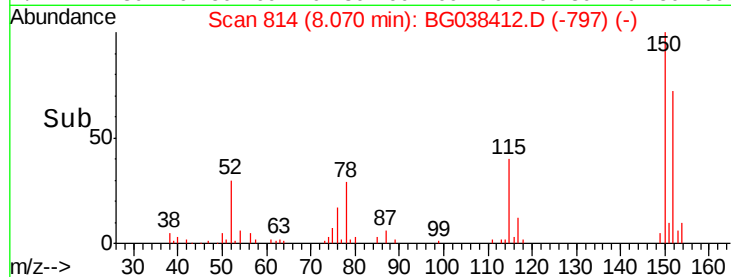
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 814  
Delta R.T. -0.00 min  
Lab File: BG038412.D  
Acq: 7 Dec 2018 20:47

Instrument :  
BNA\_G  
ClientSampleId :  
SU-01-120518-A

Tgt Ion:152 Resp: 22078  
Ion Ratio Lower Upper  
152 100  
150 139.4 126.0 189.0  
115 56.1 45.5 68.3



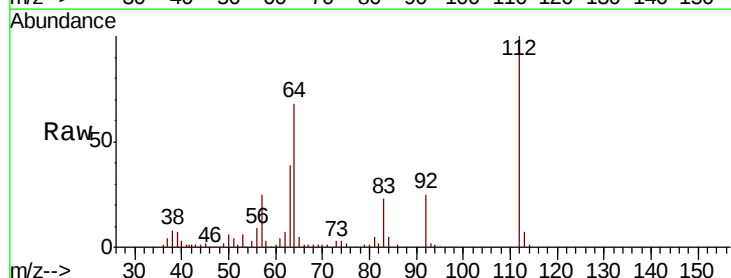
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



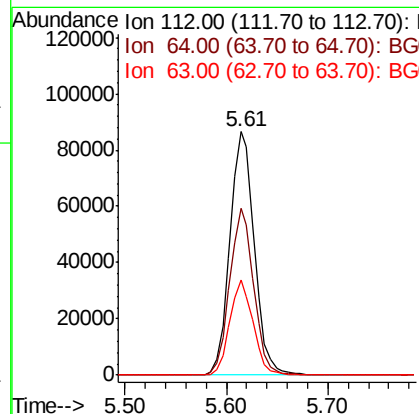
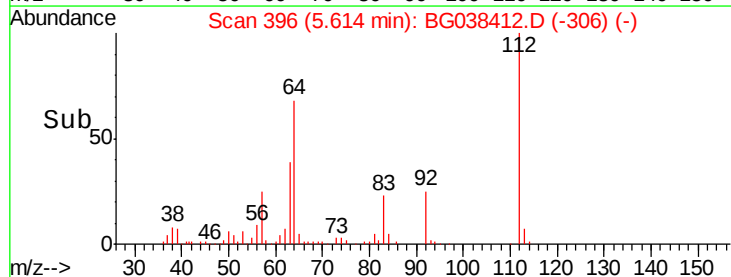
#5

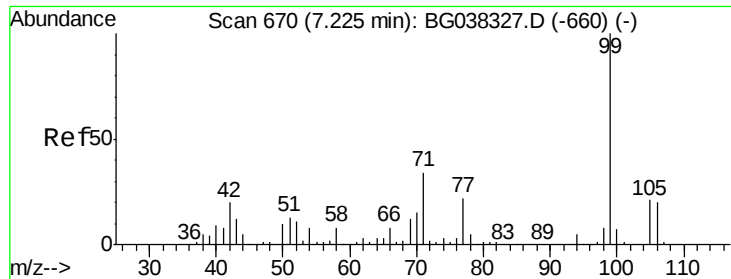
2-Fluorophenol  
Concen: 115.624 ng  
RT: 5.61 min Scan# 396  
Delta R.T. -0.00 min  
Lab File: BG038412.D  
Acq: 7 Dec 2018 20:47

Tgt Ion:112 Resp: 144252  
Ion Ratio Lower Upper  
112 100  
64 68.5 53.1 79.7  
63 39.0 27.3 40.9



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: 99.002 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.01 min

Lab File: BG038412.D

Acq: 7 Dec 2018 20:47

Instrument :

BNA\_G

ClientSampleId :

SU-01-120518-A

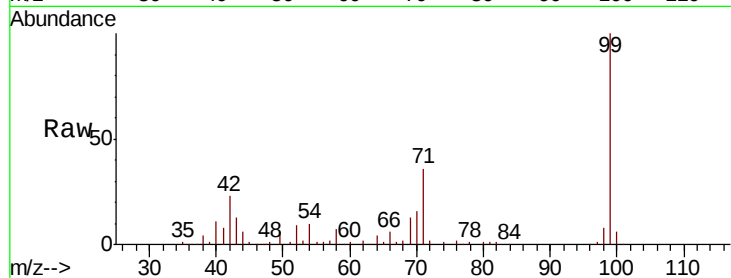
Tgt Ion: 99 Resp: 178519

Ion Ratio Lower Upper

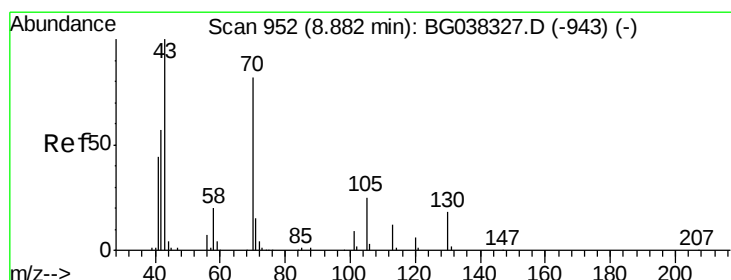
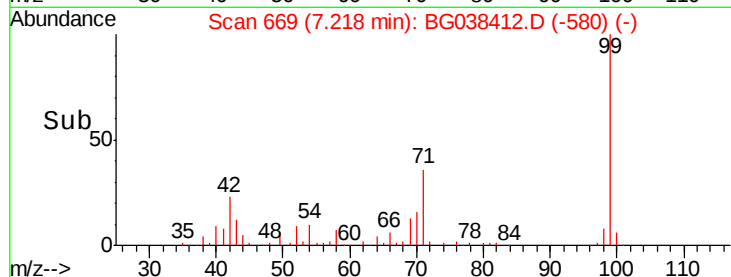
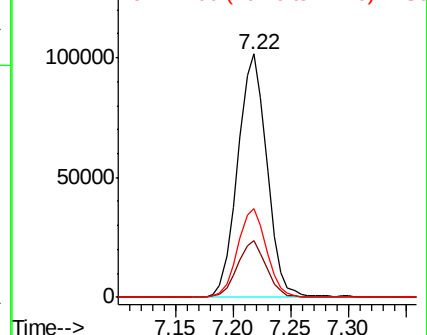
99 100

42 23.2 15.0 22.4#

71 36.3 25.5 38.3



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: 14.077 ng

RT: 9.24 min Scan# 1014

Delta R.T. 0.36 min

Lab File: BG038412.D

Acq: 7 Dec 2018 20:47

Tgt Ion: 70 Resp: 20351

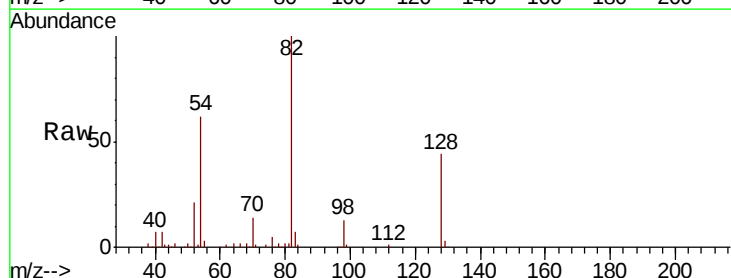
Ion Ratio Lower Upper

70 100

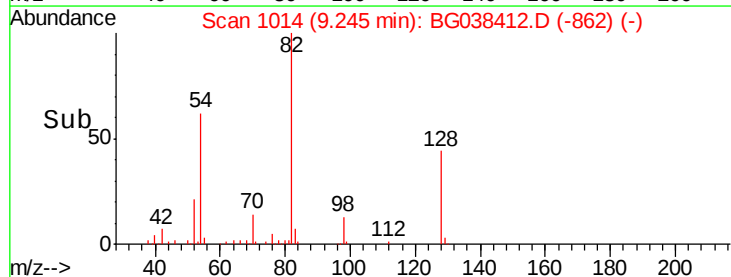
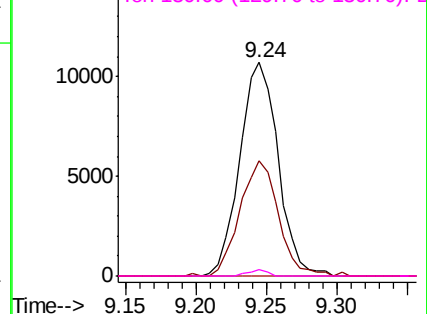
42 54.0 53.9 80.9

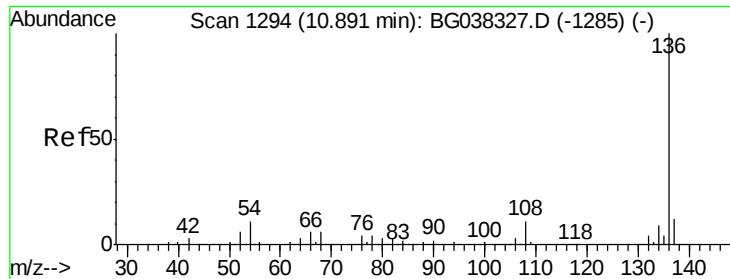
101 0.0 8.2 12.2#

130 3.0 18.2 27.4#



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

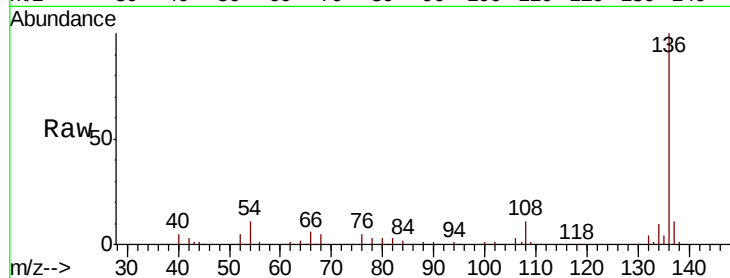




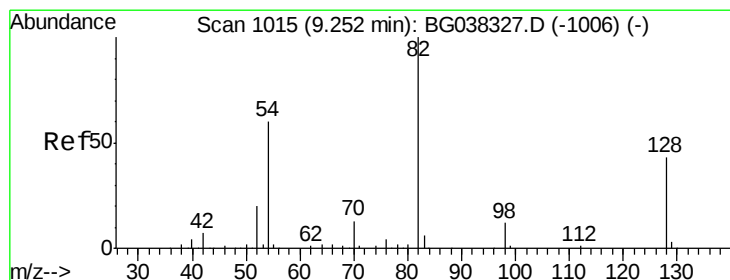
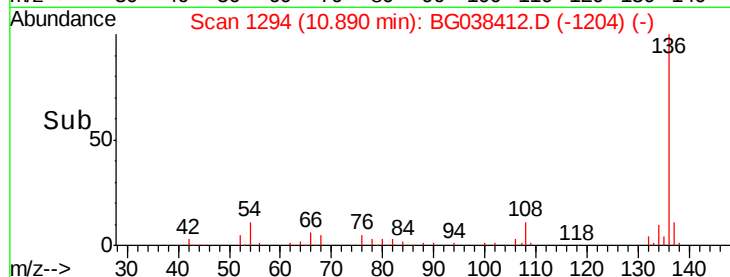
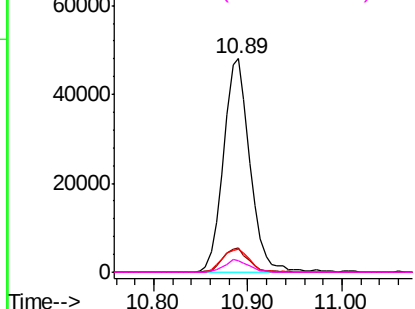
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.89 min Scan# 1294  
Delta R.T. -0.00 min  
Lab File: BG038412.D  
Acq: 7 Dec 2018 20:47

Instrument :  
BNA\_G  
ClientSampleId :  
SU-01-120518-A

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 94111 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 9.6   | 14.4  |
| 54       | 10.9  | 7.9   | 11.9  |
| 68       | 5.2   | 4.8   | 7.2   |

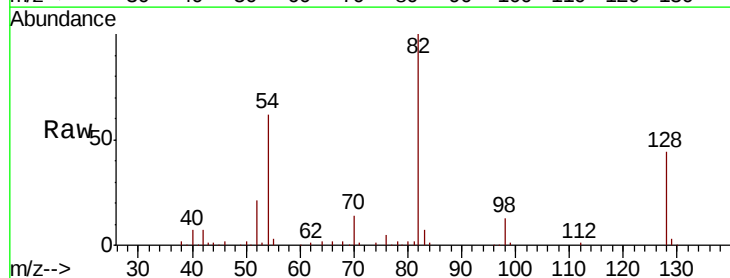


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

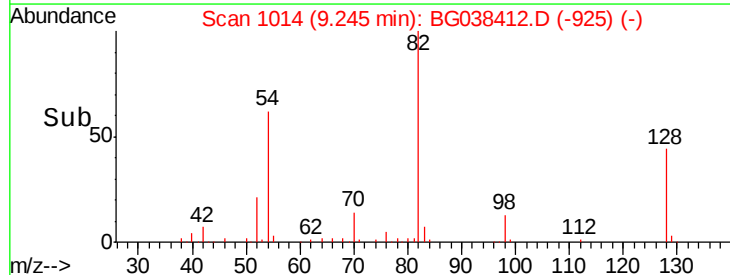
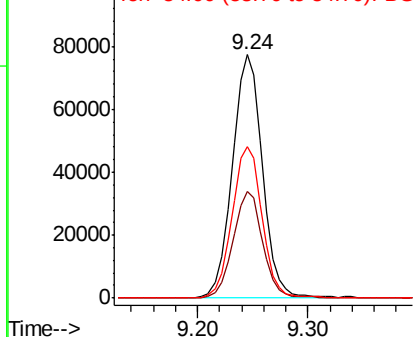


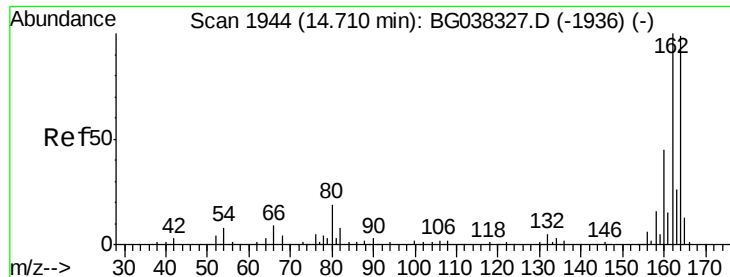
#23  
Nitrobenzene-d5  
Concen: 77.941 ng  
RT: 9.24 min Scan# 1014  
Delta R.T. -0.01 min  
Lab File: BG038412.D  
Acq: 7 Dec 2018 20:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 147743 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.9  | 34.6  | 51.8   |
| 54       | 62.0  | 45.3  | 67.9   |



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: 14.70 min Scan# 1943

Delta R.T. -0.01 min

Lab File: BG038412.D

Acq: 7 Dec 2018 20:47

Instrument :

BNA\_G

ClientSampleId :

SU-01-120518-A

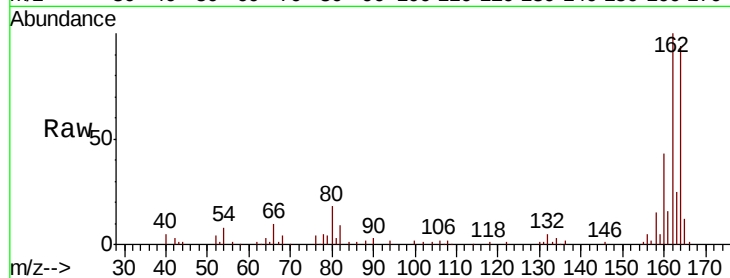
Tgt Ion:164 Resp: 61932

Ion Ratio Lower Upper

164 100

162 106.4 81.3 121.9

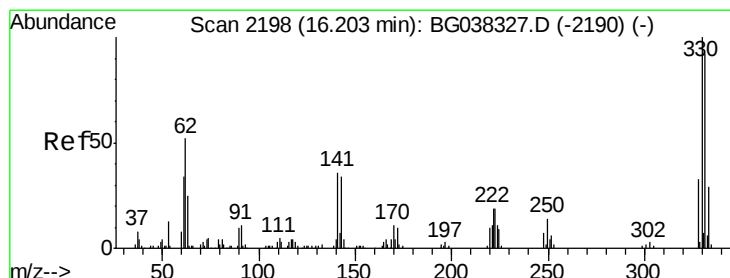
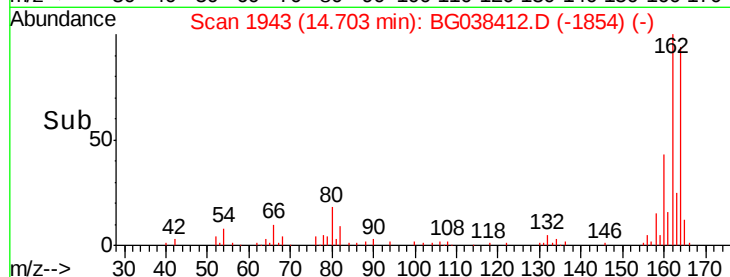
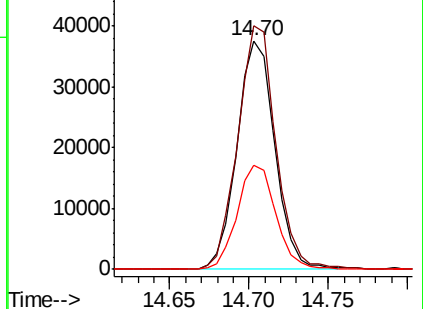
160 45.3 36.3 54.5



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: 162.523 ng

RT: 16.19 min Scan# 2196

Delta R.T. -0.01 min

Lab File: BG038412.D

Acq: 7 Dec 2018 20:47

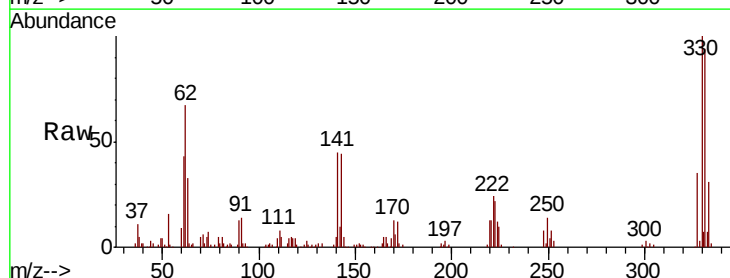
Tgt Ion:330 Resp: 123565

Ion Ratio Lower Upper

330 100

332 95.6 78.4 117.6

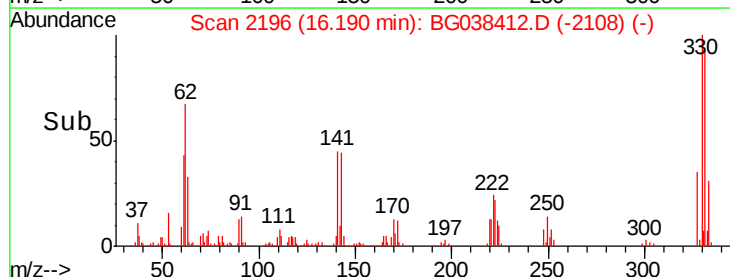
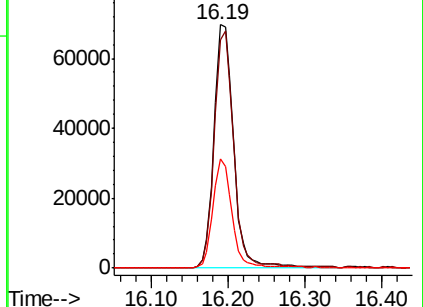
141 43.3 32.2 48.2

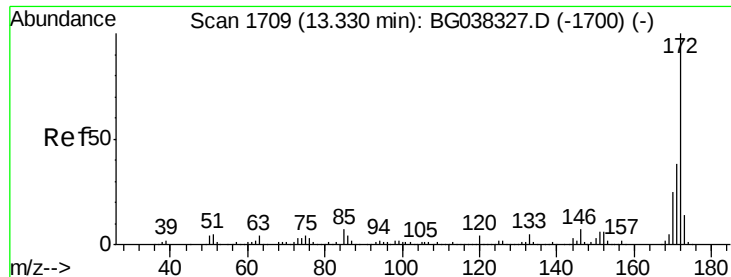


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

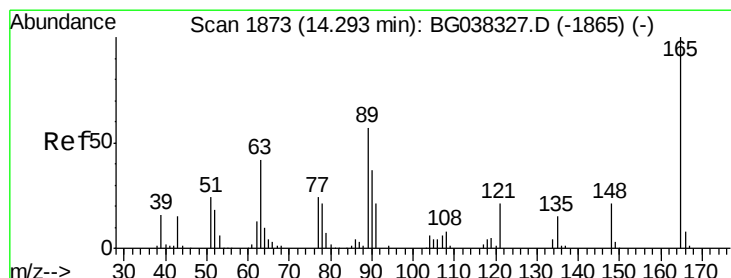
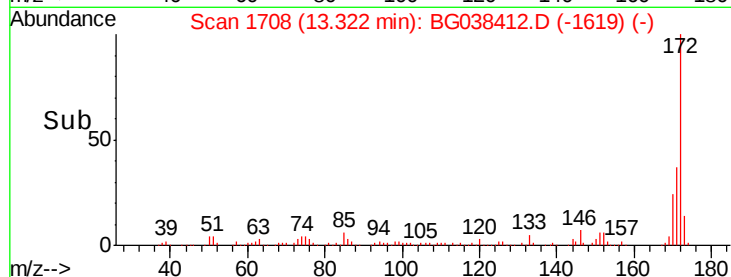
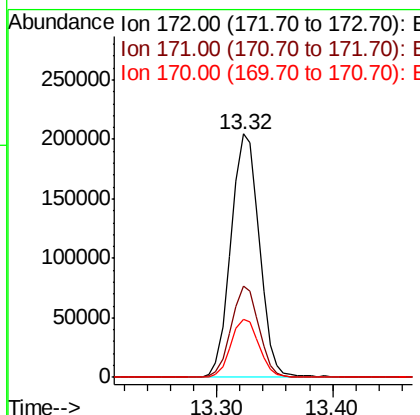
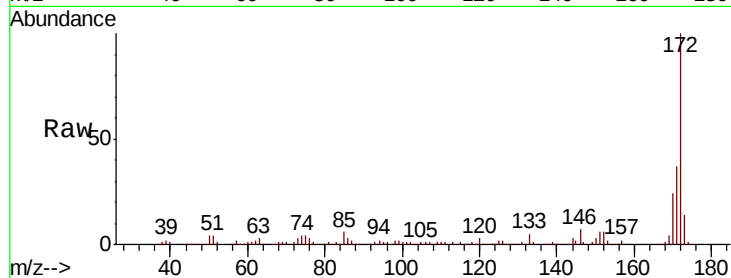




#45  
 2-Fluorobiphenyl  
 Concen: 80.469 ng  
 RT: 13.32 min Scan# 1708  
 Delta R.T. -0.01 min  
 Lab File: BG038412.D  
 Acq: 7 Dec 2018 20:47

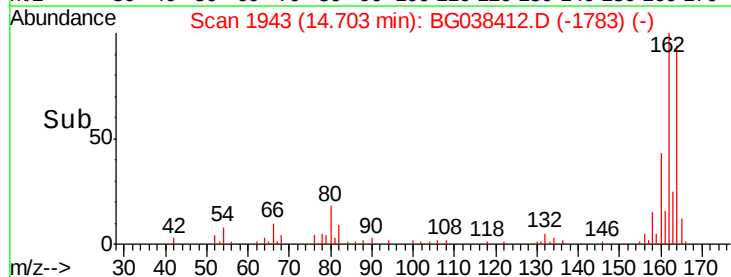
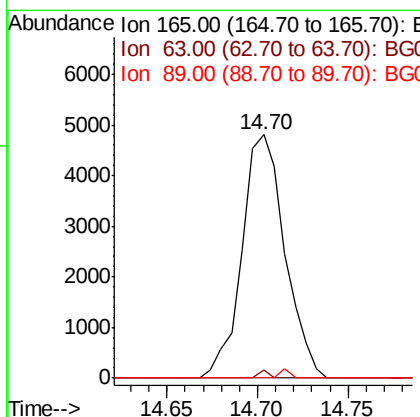
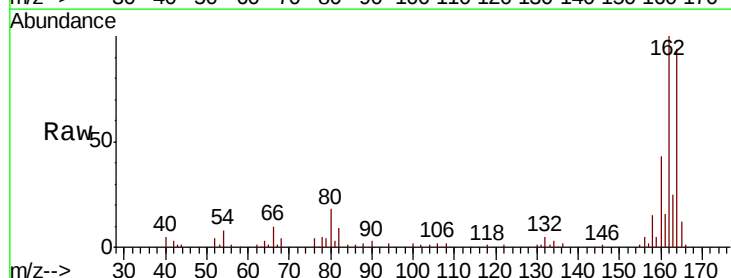
Instrument :  
 BNA\_G  
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 SU-01-120518-A

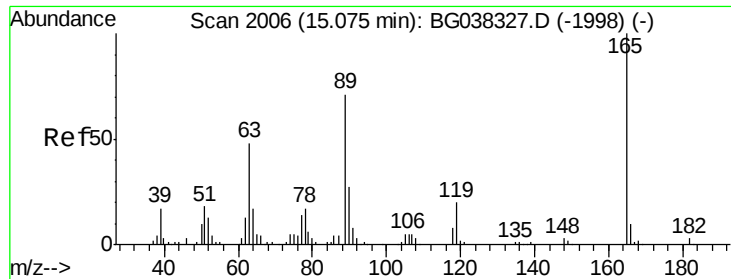
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 31.0  | 46.4  |
| 170     | 23.8  | 20.2  | 30.2  |



#51  
 2,6-Dinitrotoluene  
 Concen: 6.978 ng  
 RT: 14.70 min Scan# 1943  
 Delta R.T. 0.41 min  
 Lab File: BG038412.D  
 Acq: 7 Dec 2018 20:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.2   | 43.4  | 65.2# |
| 89      | 0.0   | 45.8  | 68.6# |

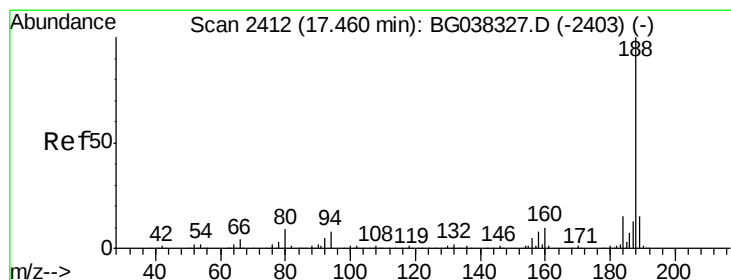
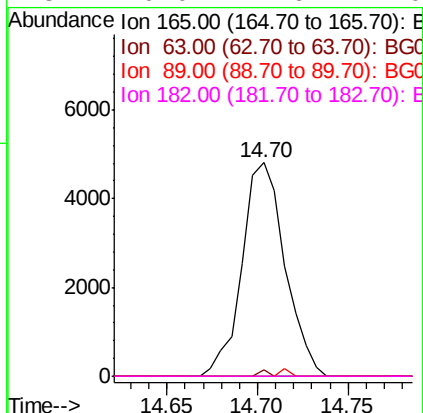
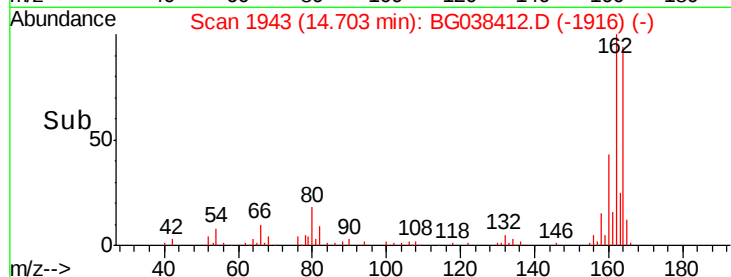
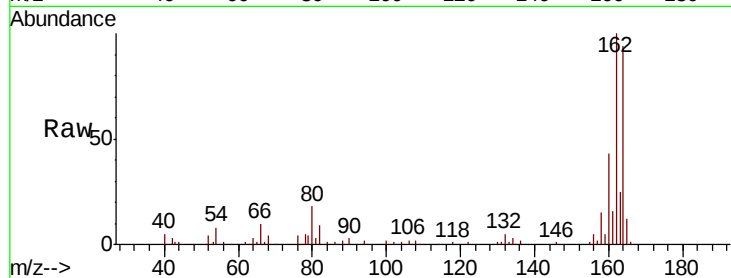




#57  
 2,4-Dinitrotoluene  
 Concen: 5.059 ng  
 RT: 14.70 min Scan# 1943  
 Delta R.T. -0.37 min  
 Lab File: BG038412.D  
 Acq: 7 Dec 2018 20:47

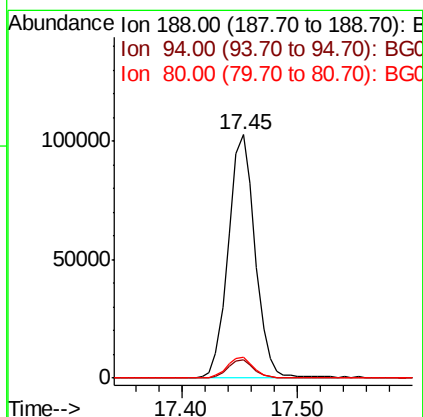
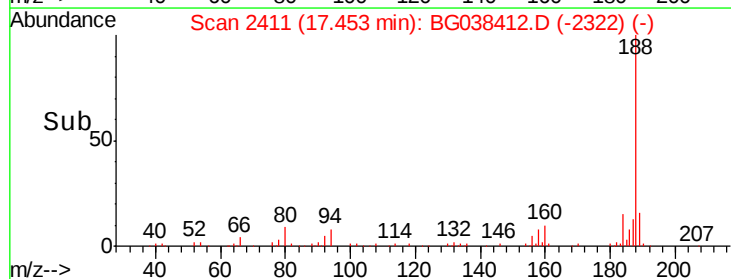
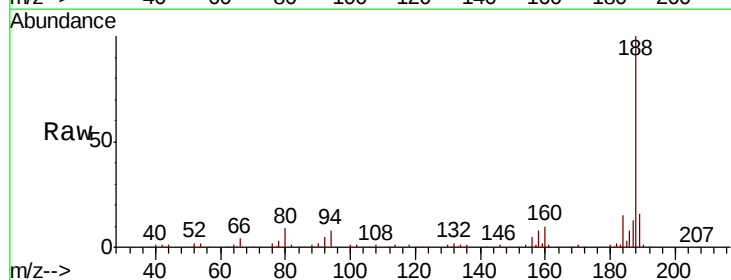
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SU-01-120518-A

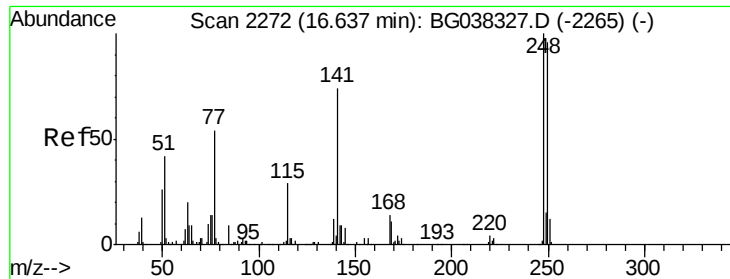
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 7918  |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 3.2   | 33.4  | 50.0# |
| 89       | 0.0   | 57.2  | 85.8# |
| 182      | 0.0   | 2.6   | 4.0#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.45 min Scan# 2411  
 Delta R.T. -0.01 min  
 Lab File: BG038412.D  
 Acq: 7 Dec 2018 20:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 165459 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 7.6   | 7.2   | 10.8   |
| 80       | 8.6   | 7.7   | 11.5   |

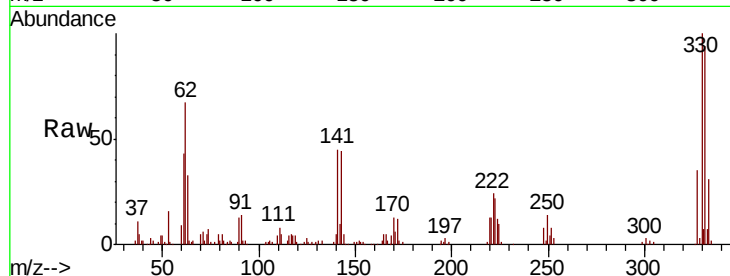




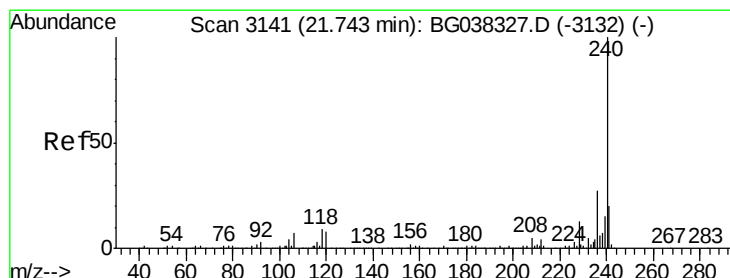
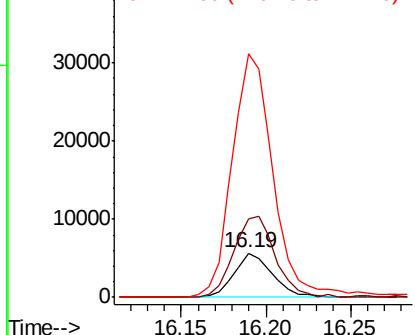
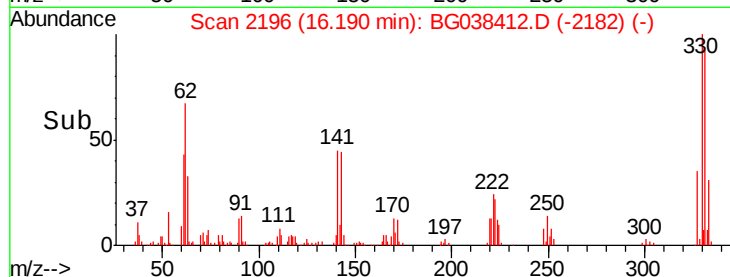
#67  
4-Bromophenyl-phenylether  
Concen: 4.951 ng  
RT: 16.19 min Scan# 2196  
Delta R.T. -0.45 min  
Lab File: BG038412.D  
Acq: 7 Dec 2018 20:47

Instrument :  
BNA\_G  
ClientSampleId :  
SU-01-120518-A

Tgt Ion:248 Resp: 8847  
Ion Ratio Lower Upper  
248 100  
250 177.7 77.0 115.6#  
141 432.4 55.5 83.3#

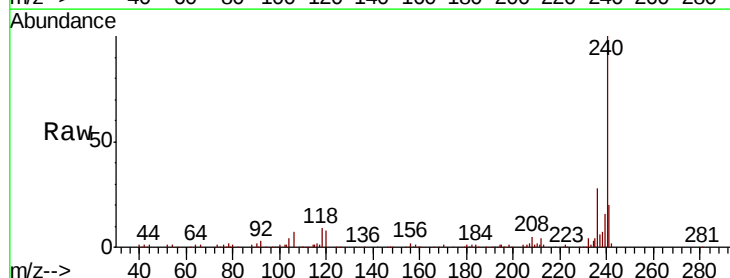


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

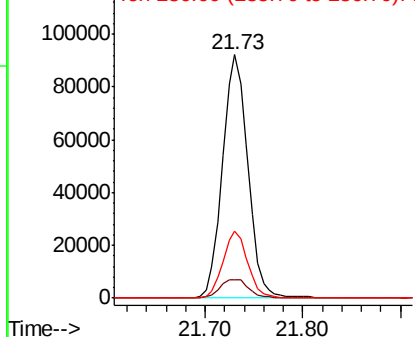
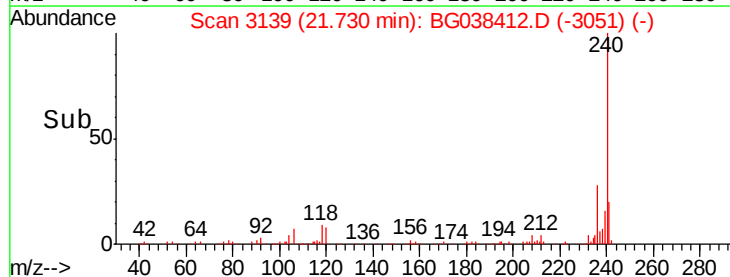


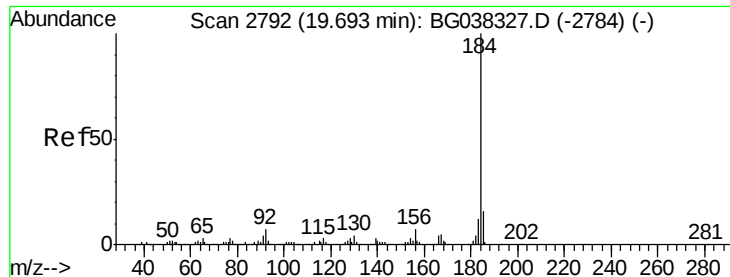
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.73 min Scan# 3139  
Delta R.T. -0.01 min  
Lab File: BG038412.D  
Acq: 7 Dec 2018 20:47

Tgt Ion:240 Resp: 166018  
Ion Ratio Lower Upper  
240 100  
120 7.6 8.1 12.1#  
236 27.6 21.4 32.0



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: 2.093 ng

RT: 20.05 min Scan# 2853

Delta R.T. 0.36 min

Lab File: BG038412.D

Acq: 7 Dec 2018 20:47

Instrument :

BNA\_G

ClientSampleId :

SU-01-120518-A

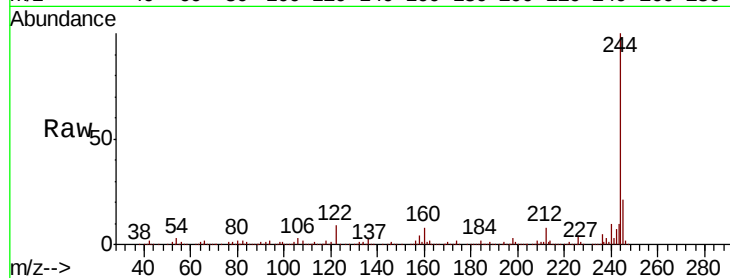
Tgt Ion:184 Resp: 11728

Ion Ratio Lower Upper

184 100

185 17.6 12.6 18.8

183 8.4 10.2 15.2#

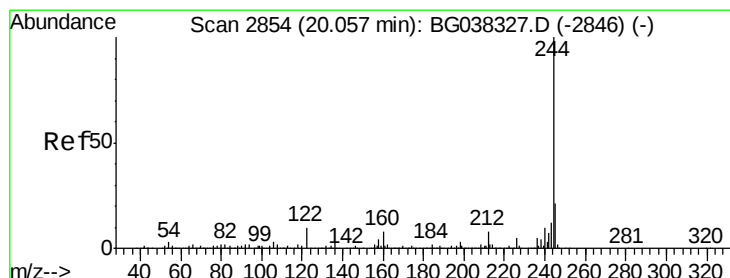
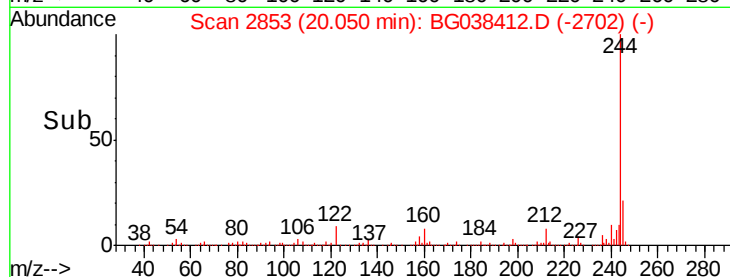
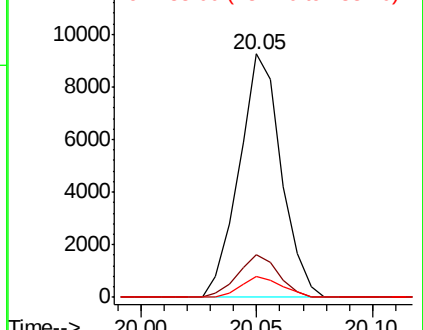


Abundance

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: 87.906 ng

RT: 20.05 min Scan# 2853

Delta R.T. -0.01 min

Lab File: BG038412.D

Acq: 7 Dec 2018 20:47

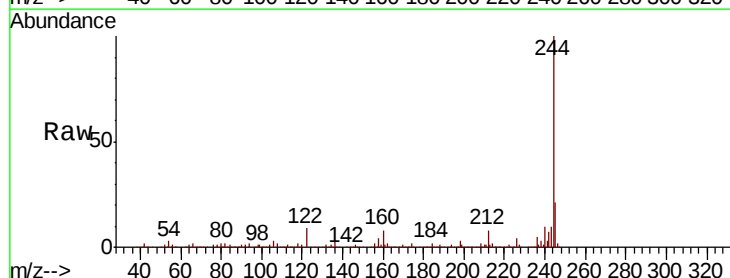
Tgt Ion:244 Resp: 681245

Ion Ratio Lower Upper

244 100

212 7.9 6.5 9.7

122 8.9 9.0 13.4#

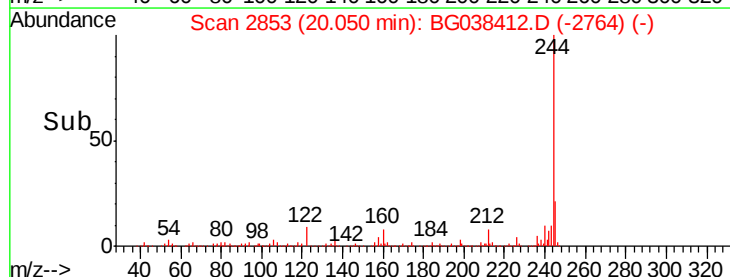
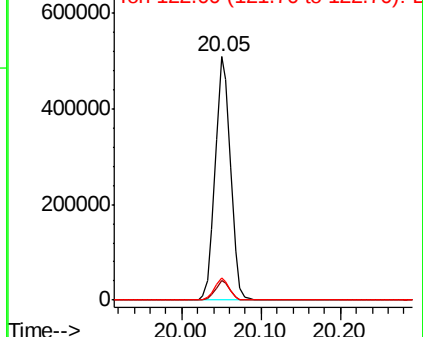


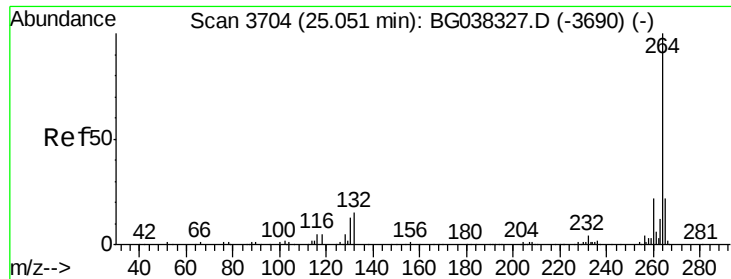
Abundance

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: 25.04 min Scan# 3702  
Delta R.T. -0.01 min  
Lab File: BG038412.D  
Acq: 7 Dec 2018 20:47

Instrument :  
BNA\_G  
ClientSampleId :  
SU-01-120518-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 18.2  | 27.4  |
| 265     | 21.5  | 17.9  | 26.9  |

