

Data Path : Z:\HPCHEM1\BNA G\DATA\BG032918\  
 Data File : BG033425.D  
 Acq On : 29 Mar 2018 18:19  
 Operator : SJ/JU  
 Sample : J1754-12  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CL-02-032718-A

Quant Time: Mar 30 07:53:46 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 28 18:34:58 2018  
 Response via : Initial Calibration

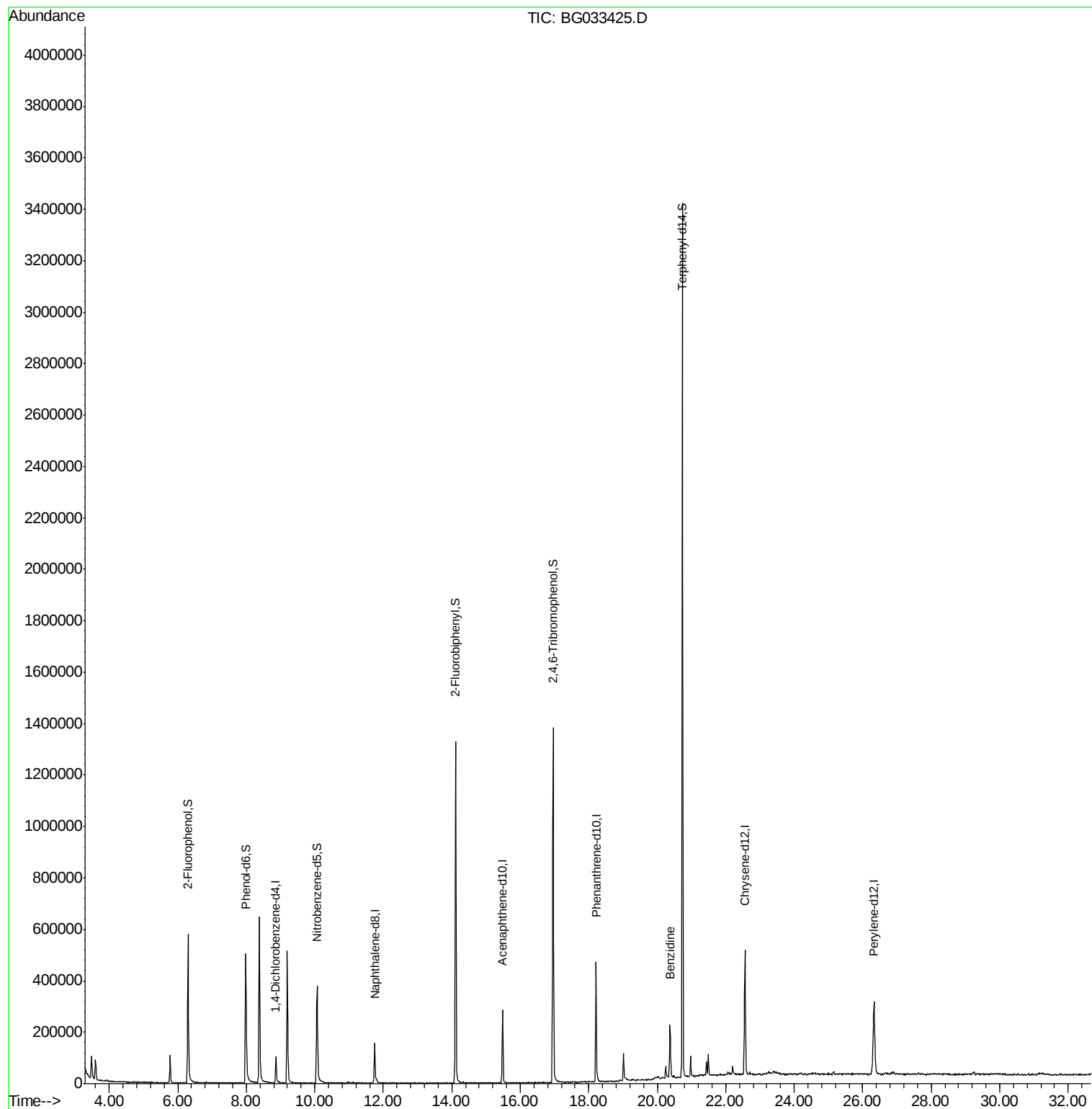
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.86  | 152  | 34518    | 20.00  | ng    | -0.02     |
| 21) Naphthalene-d8          | 11.75 | 136  | 140975   | 20.00  | ng    | 0.00      |
| 38) Acenaphthene-d10        | 15.48 | 164  | 109113   | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10        | 18.21 | 188  | 328382   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12            | 22.56 | 240  | 362433   | 20.00  | ng    | 0.00      |
| 86) Perylene-d12            | 26.33 | 264  | 389390   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 6.30  | 112  | 272201   | 147.87 | ng    | 0.00      |
| 7) Phenol-d6                | 7.99  | 99   | 376473   | 119.03 | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 10.07 | 82   | 304496   | 99.24  | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol    | 16.96 | 330  | 289855   | 177.62 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl        | 14.11 | 172  | 734375   | 97.16  | ng    | 0.00      |
| 78) Terphenyl-d14           | 20.73 | 244  | 1690707  | 99.76  | ng    | 0.00      |
| Target Compounds            |       |      |          |        |       |           |
| 76) Benzidine               | 20.37 | 184  | 125868   | 12.806 | ng    | Qvalue 99 |

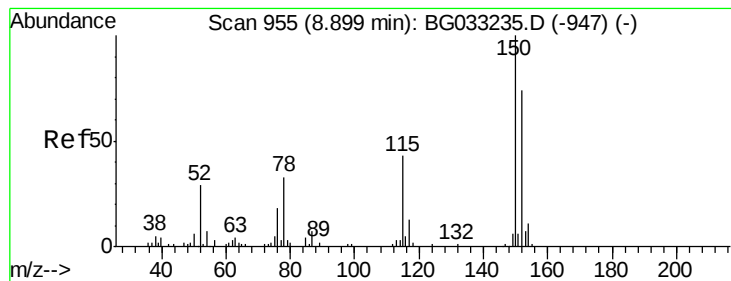
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 3 Sample Multiplier: 1

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ClientSampleId :  
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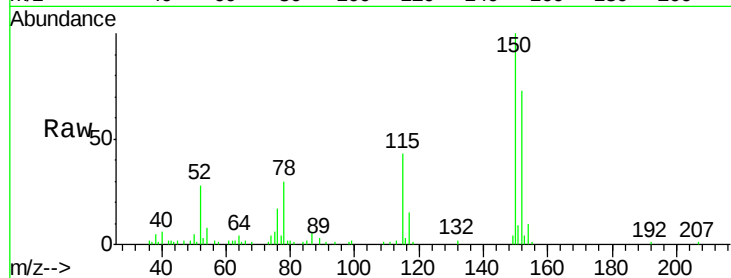


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.86 min Scan# 949  
Delta R.T. -0.02 min  
Lab File: BG033425.D  
Acq: 29 Mar 2018 18:19

Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-032718-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 137.1 | 126.6 | 189.8 |
| 115     | 59.2  | 53.0  | 79.4  |

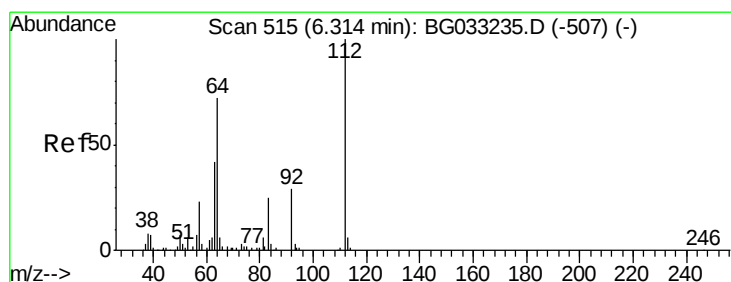
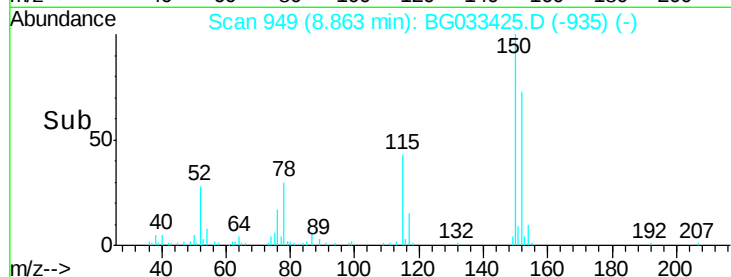
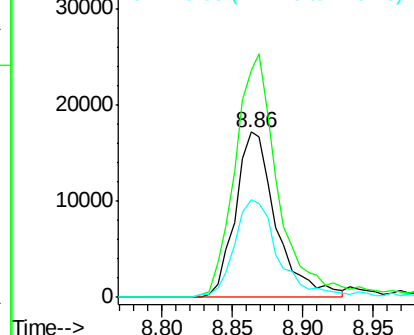


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

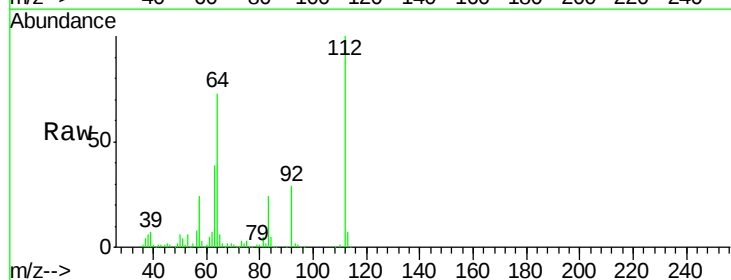
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 147.868 ng  
RT: 6.30 min Scan# 513  
Delta R.T. 0.01 min  
Lab File: BG033425.D  
Acq: 29 Mar 2018 18:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 73.4  | 56.3  | 84.5  |
| 63      | 39.3  | 30.1  | 45.1  |

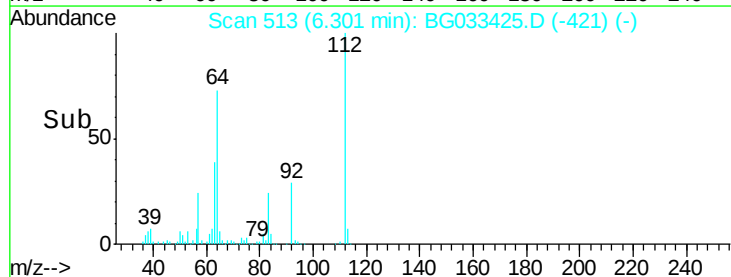
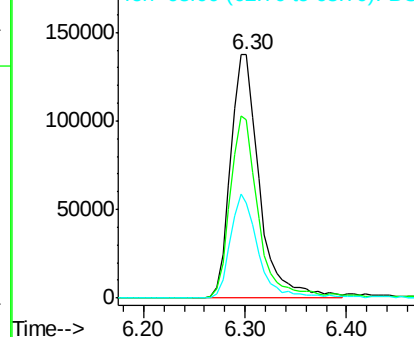


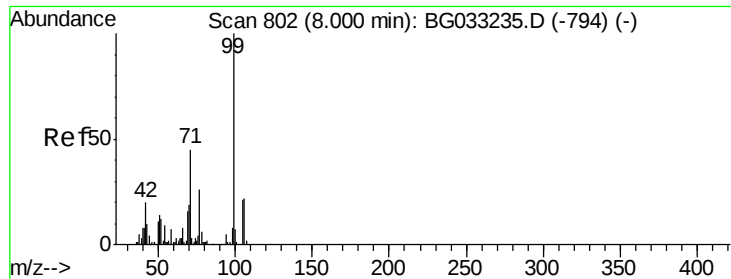
Abundance

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: 119.026 ng

RT: 7.99 min Scan# 800

Delta R.T. 0.01 min

Lab File: BG033425.D

Acq: 29 Mar 2018 18:19

Instrument :

BNA\_G

ClientSampleId :

CL-02-032718-A

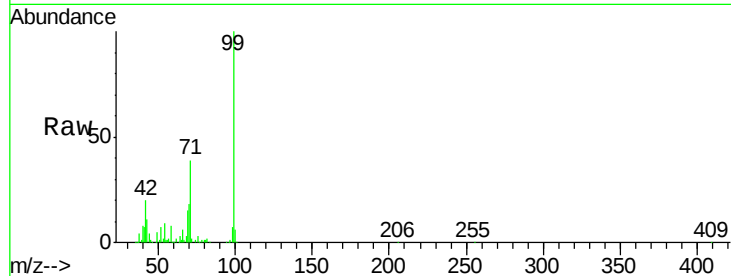
Tot Ion: 99 Resp: 376473

Ion Ratio Lower Upper

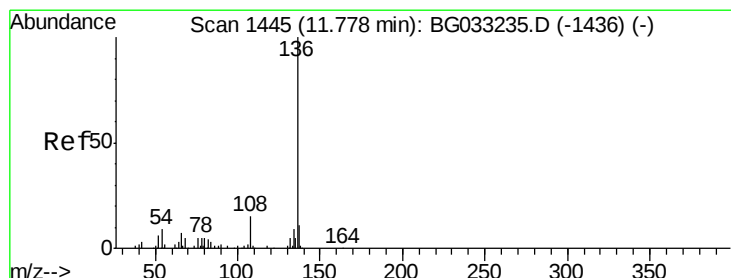
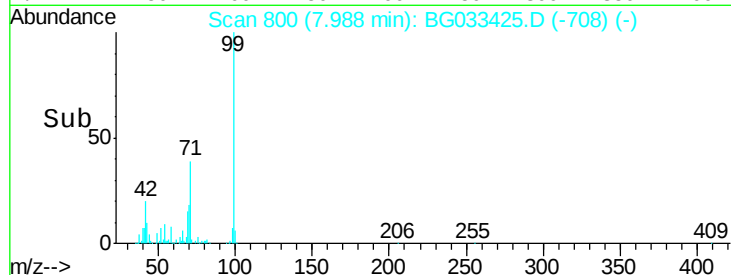
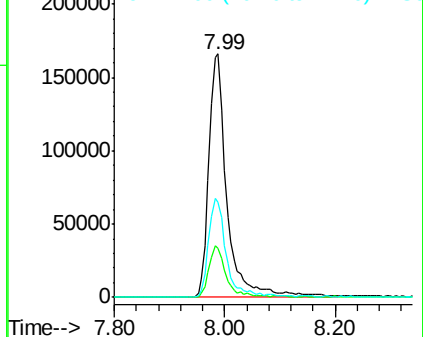
99 100

42 20.3 14.1 21.1

71 38.9 26.1 39.1



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.75 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BG033425.D

Acq: 29 Mar 2018 18:19

Tgt Ion: 136 Resp: 140975

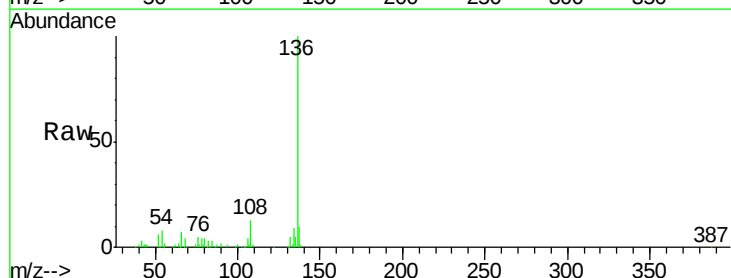
Ion Ratio Lower Upper

136 100

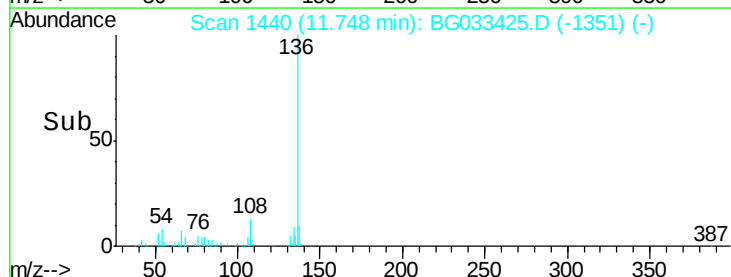
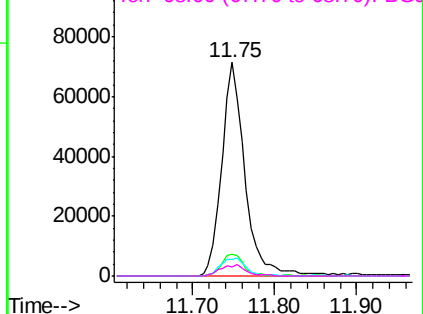
137 10.0 9.2 13.8

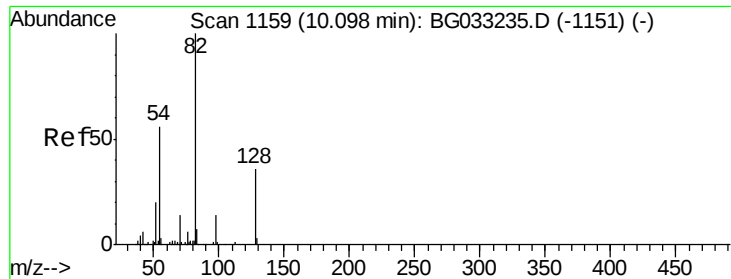
54 8.0 10.3 15.5#

68 4.1 4.5 6.7#



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

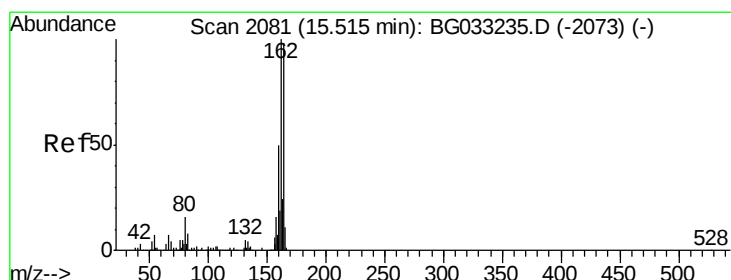
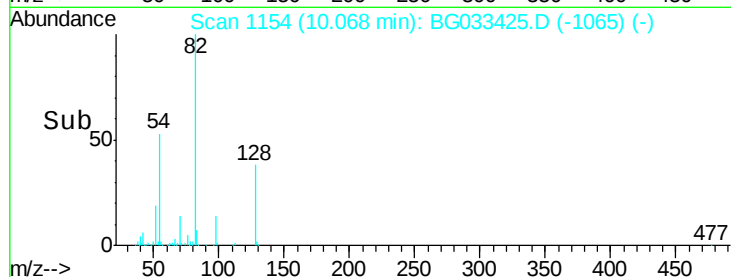
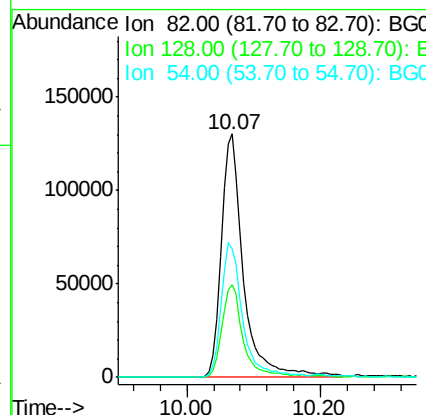
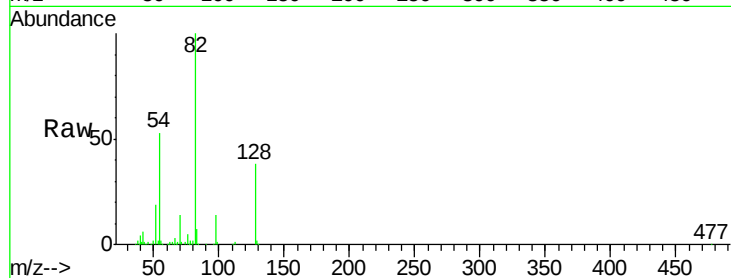




#23  
 Nitrobenzene-d5  
 Concen: 99.236 ng  
 RT: 10.07 min Scan# 1154  
 Delta R.T. -0.01 min  
 Lab File: BG033425.D  
 Acq: 29 Mar 2018 18:19

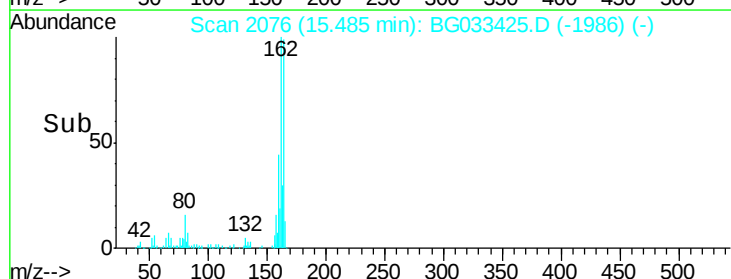
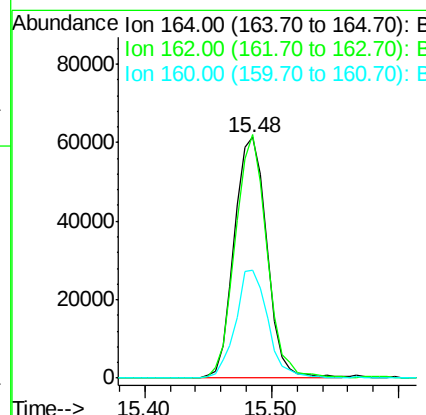
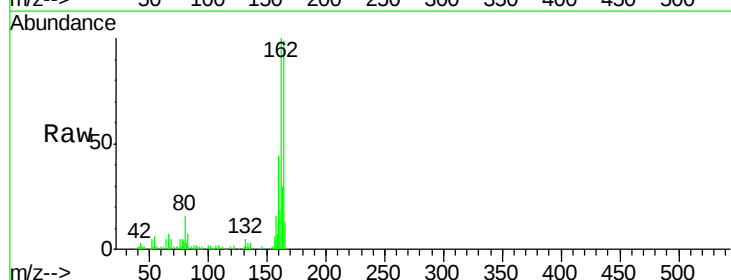
Instrument :  
 BNA\_G  
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 CL-02-032718-A

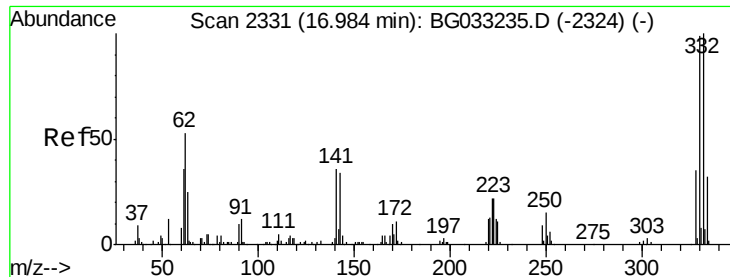
| Tot Ion   | 82    | Resp  | 304496 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 37.9  | 29.7  | 44.5   |
| 54        | 52.7  | 43.1  | 64.7   |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.48 min Scan# 2076  
 Delta R.T. -0.00 min  
 Lab File: BG033425.D  
 Acq: 29 Mar 2018 18:19

| Tgt Ion   | 164   | Resp  | 109113 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 101.2 | 78.8  | 118.2  |
| 160       | 44.8  | 35.4  | 53.0   |

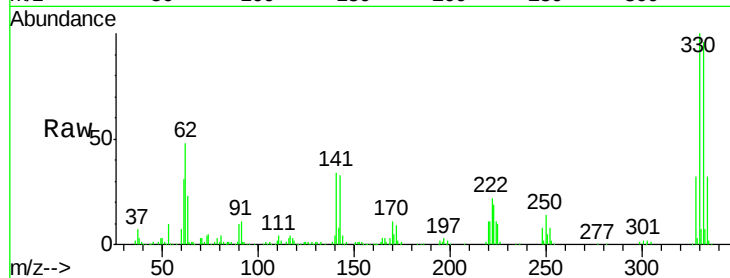




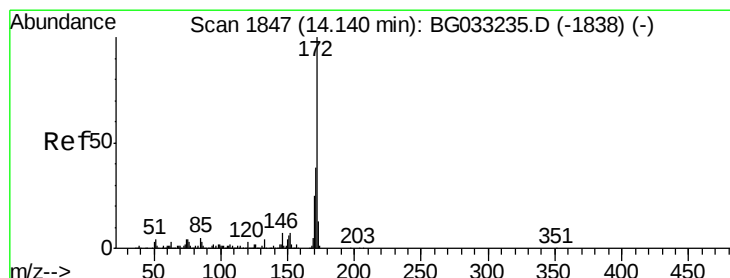
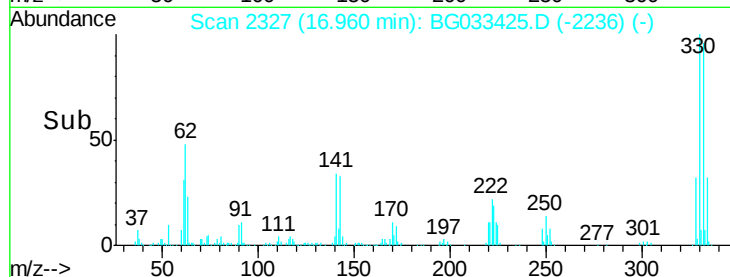
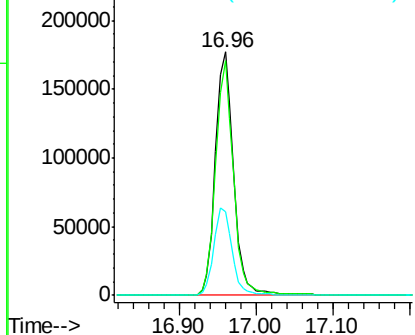
#41  
 2,4,6-Tribromophenol  
 Concen: 177.617 ng  
 RT: 16.96 min Scan# 2327  
 Delta R.T. 0.00 min  
 Lab File: BG033425.D  
 Acq: 29 Mar 2018 18:19

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CL-02-032718-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.2  | 77.0  | 115.6 |
| 141     | 35.7  | 25.2  | 37.8  |

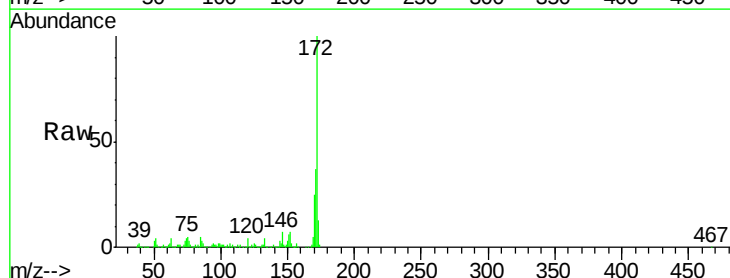


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

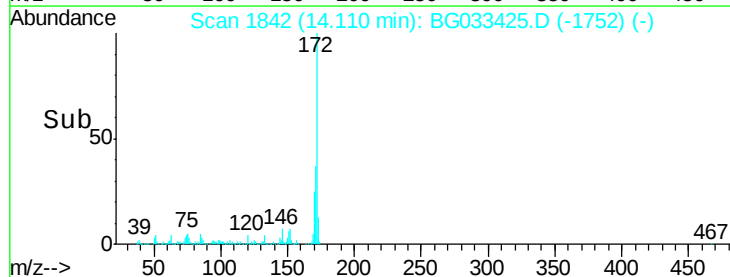
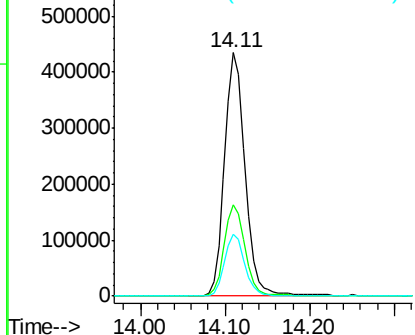


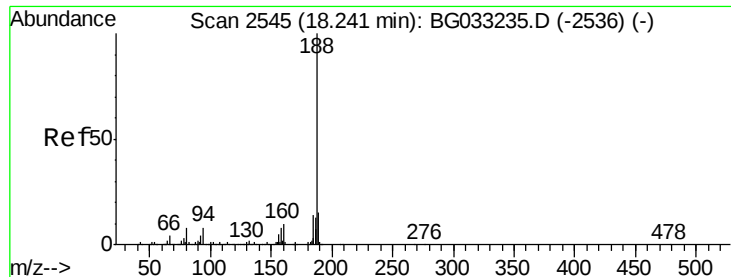
#44  
 2-Fluorobiphenyl  
 Concen: 97.163 ng  
 RT: 14.11 min Scan# 1842  
 Delta R.T. -0.00 min  
 Lab File: BG033425.D  
 Acq: 29 Mar 2018 18:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 30.0  | 45.0  |
| 170     | 25.4  | 19.5  | 29.3  |



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

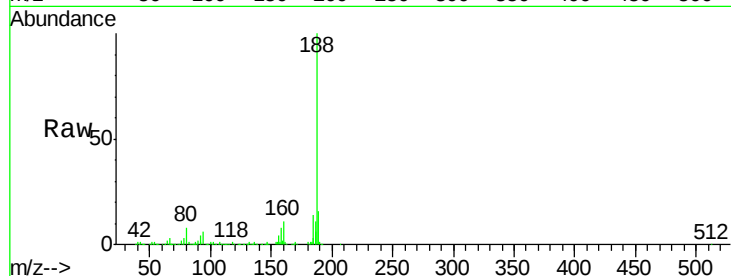




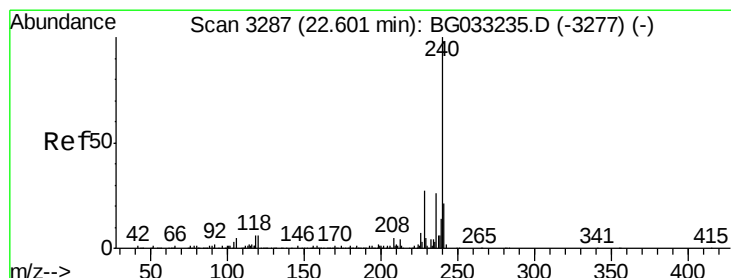
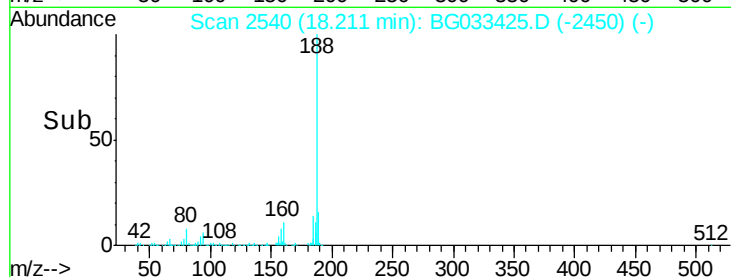
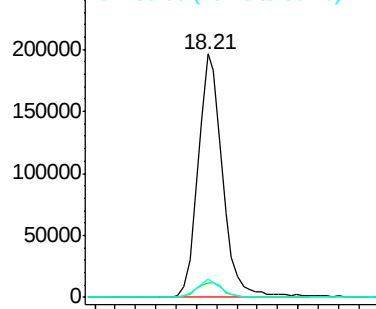
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.21 min Scan# 2540  
Delta R.T. -0.00 min  
Lab File: BG033425.D  
Acq: 29 Mar 2018 18:19

Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-032718-A

Tot Ion:188 Resp: 328382  
Ion Ratio Lower Upper  
188 100  
94 6.2 6.9 10.3#  
80 7.7 7.7 11.5

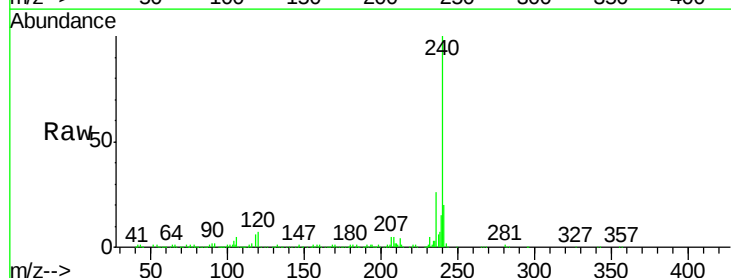


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

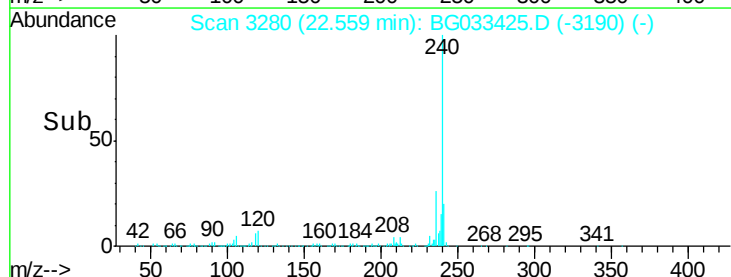
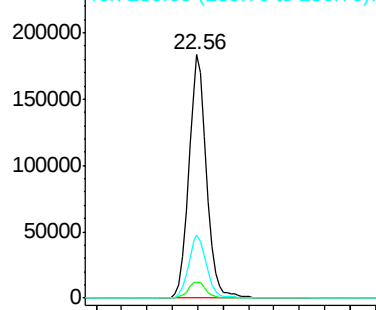


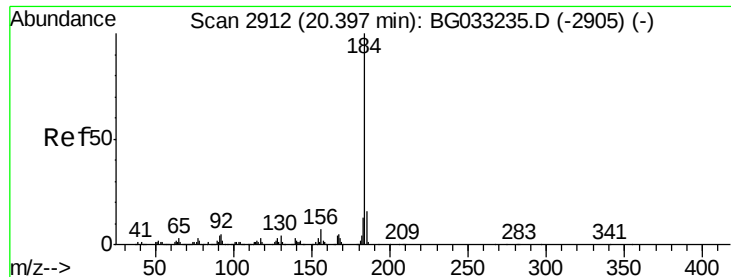
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.56 min Scan# 3280  
Delta R.T. -0.00 min  
Lab File: BG033425.D  
Acq: 29 Mar 2018 18:19

Tgt Ion:240 Resp: 362433  
Ion Ratio Lower Upper  
240 100  
120 6.7 6.8 10.2#  
236 25.8 20.9 31.3



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





#76

Benzidine

Concen: 12.806 ng

RT: 20.37 min Scan# 2908

Delta R.T. 0.00 min

Lab File: BG033425.D

Acq: 29 Mar 2018 18:19

Instrument :

BNA\_G

ClientSampleId :

CL-02-032718-A

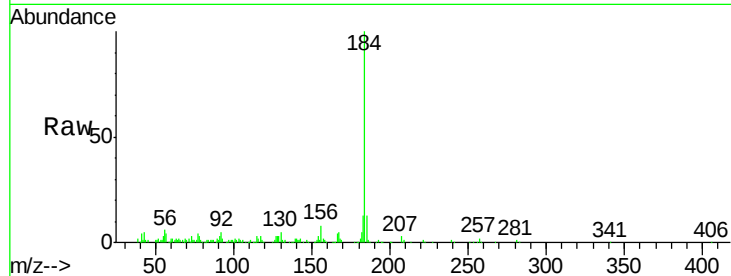
Tot Ion:184 Resp: 125868

Ion Ratio Lower Upper

184 100

185 13.1 11.1 16.7

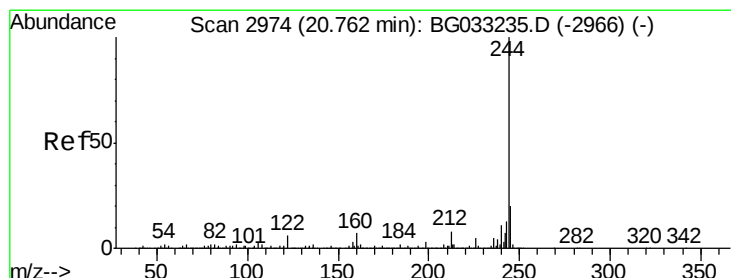
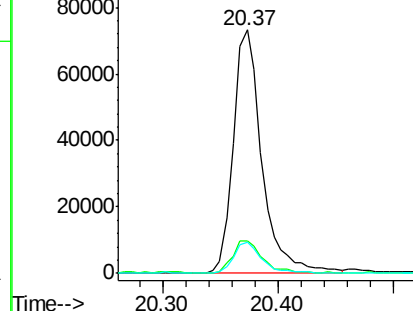
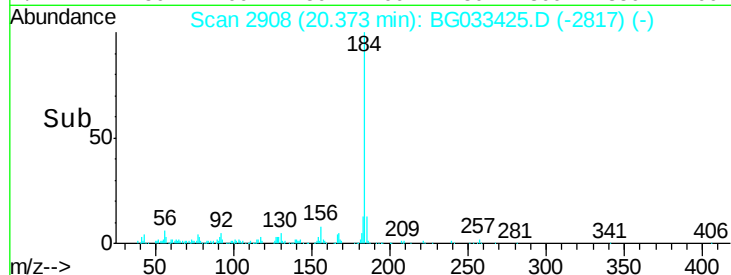
183 13.0 10.6 16.0



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



#78

Terphenyl-d14

Concen: 99.763 ng

RT: 20.73 min Scan# 2969

Delta R.T. -0.00 min

Lab File: BG033425.D

Acq: 29 Mar 2018 18:19

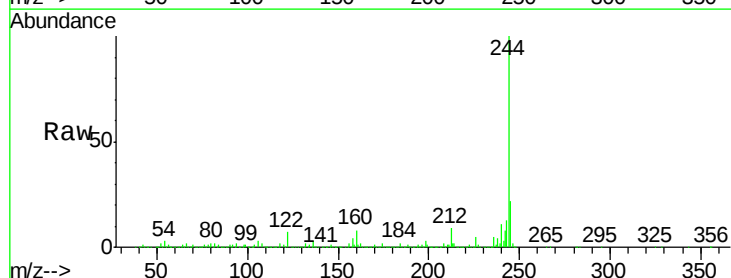
Tgt Ion:244 Resp: 1690707

Ion Ratio Lower Upper

244 100

212 9.1 5.8 8.8#

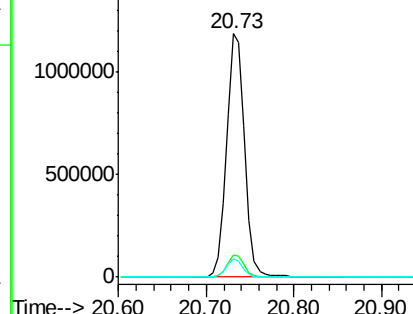
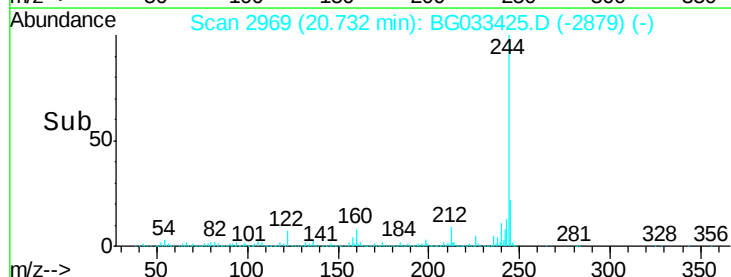
122 7.4 7.0 10.4



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





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.33 min Scan# 3922  
Delta R.T. -0.00 min  
Lab File: BG033425.D  
Acq: 29 Mar 2018 18:19

Instrument :  
BNA\_G  
ClientSampleId :  
CL-02-032718-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.0  | 17.4  | 26.0  |
| 265     | 20.5  | 17.7  | 26.5  |

