

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042318\  
 Data File : BG033940.D  
 Acq On : 24 Apr 2018 4:14  
 Operator : SJ/JU  
 Sample : J2495-02  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RS-RO-1-7-A

Quant Time: Apr 24 08:08:48 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 19 13:56:22 2018  
 Response via : Initial Calibration

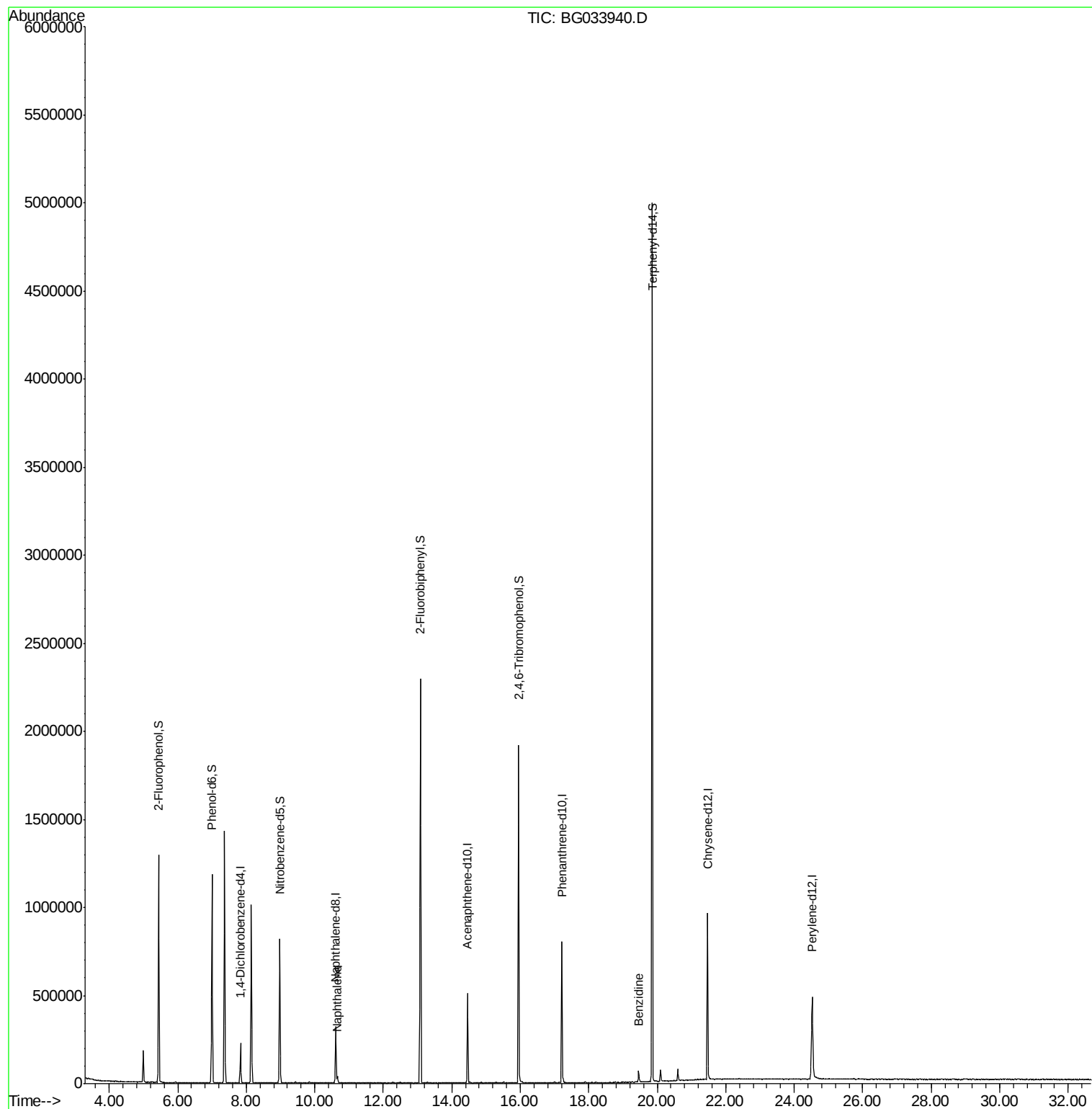
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.83  | 152  | 62662    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 10.61 | 136  | 271350   | 20.00  | ng    | -0.02       |
| 38) Acenaphthene-d10        | 14.46 | 164  | 180275   | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10        | 17.21 | 188  | 502709   | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12            | 21.47 | 240  | 543635   | 20.00  | ng    | -0.03       |
| 86) Perylene-d12            | 24.52 | 264  | 529774   | 20.00  | ng    | -0.04       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.44  | 112  | 546724   | 139.30 | ng    | 0.00        |
| 7) Phenol-d6                | 7.00  | 99   | 672377   | 117.45 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 8.97  | 82   | 493550   | 103.51 | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 15.95 | 330  | 336639   | 160.06 | ng    | -0.02       |
| 44) 2-Fluorobiphenyl        | 13.08 | 172  | 1215990  | 99.09  | ng    | -0.02       |
| 78) Terphenyl-d14           | 19.85 | 244  | 2301361  | 95.11  | ng    | -0.01       |
| Target Compounds            |       |      |          |        |       |             |
| 31) Naphthalene             | 10.66 | 128  | 32191    | 2.307  | ng    | Qvalue # 96 |
| 76) Benzidine               | 19.46 | 184  | 40773    | 2.777  | ng    | 97          |

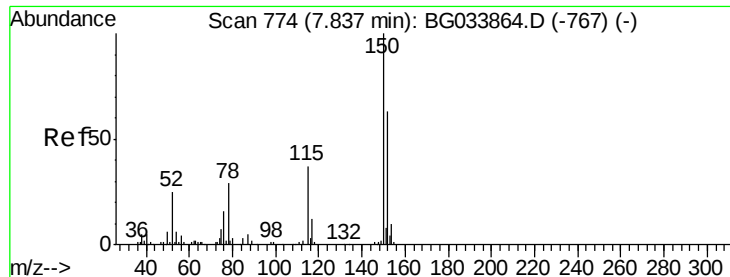
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
RS-RO-1-7-A

Quant Time: Apr 24 08:08:48 2018  
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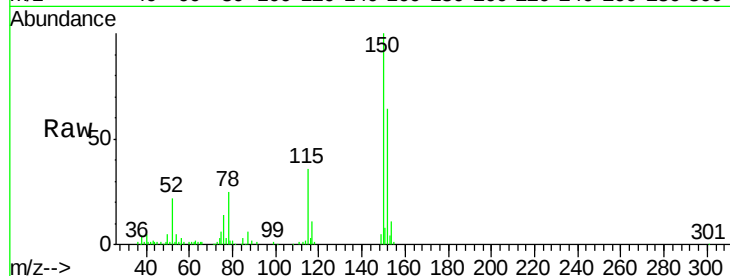


#1

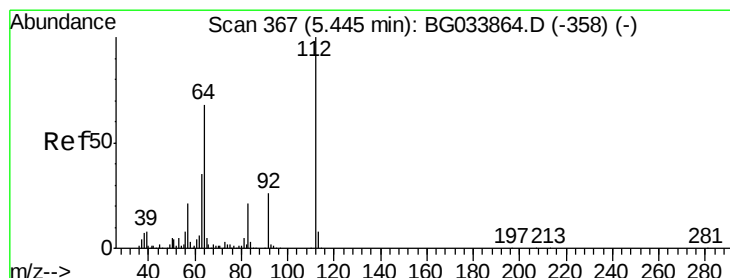
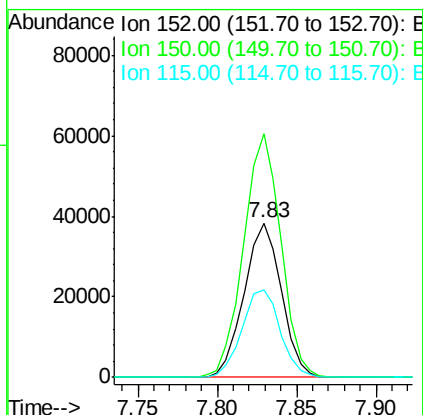
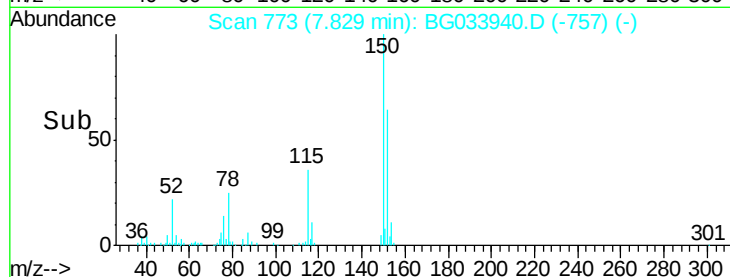
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.83 min Scan# 773  
Delta R.T. -0.01 min  
Lab File: BG033940.D  
Acq: 24 Apr 2018 4:14

Instrument :  
BNA\_G  
ClientSampleId :  
RS-RO-1-7-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 126.6 | 189.8 |
| 115     | 56.3  | 53.0  | 79.4  |



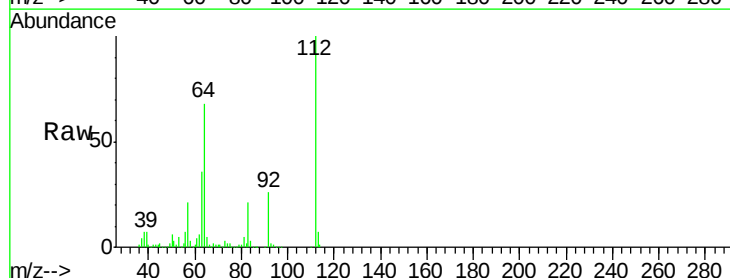
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



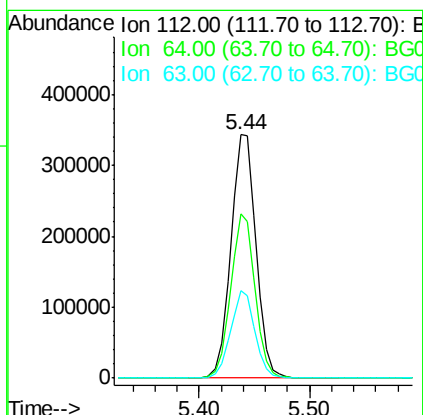
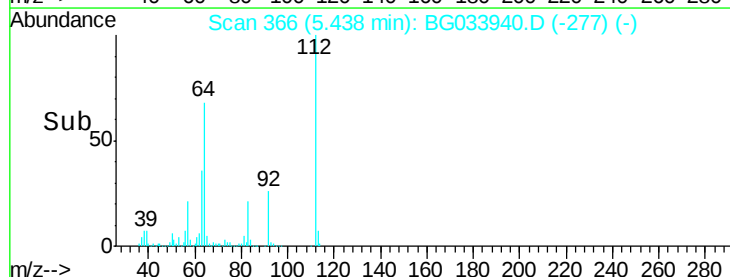
#5

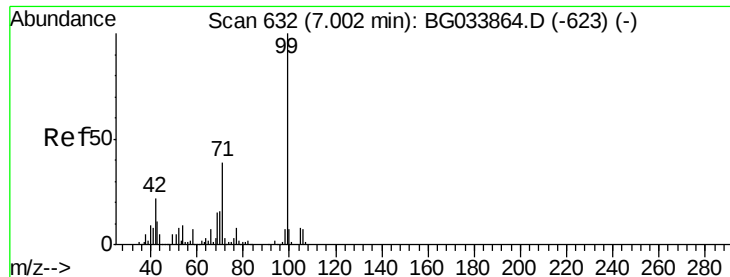
2-Fluorophenol  
Concen: 139.297 ng  
RT: 5.44 min Scan# 366  
Delta R.T. -0.01 min  
Lab File: BG033940.D  
Acq: 24 Apr 2018 4:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.5  | 56.3  | 84.5  |
| 63      | 36.0  | 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: 117.453 ng

RT: 7.00 min Scan# 632

Delta R.T. -0.00 min

Lab File: BG033940.D

Acq: 24 Apr 2018 4:14

Instrument :

BNA\_G

ClientSampleId :

RS-RO-1-7-A

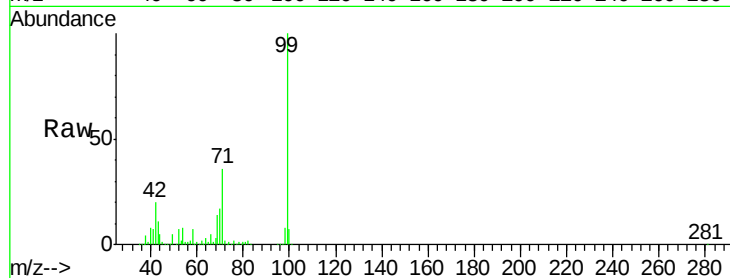
Tot Ion: 99 Resp: 672377

Ion Ratio Lower Upper

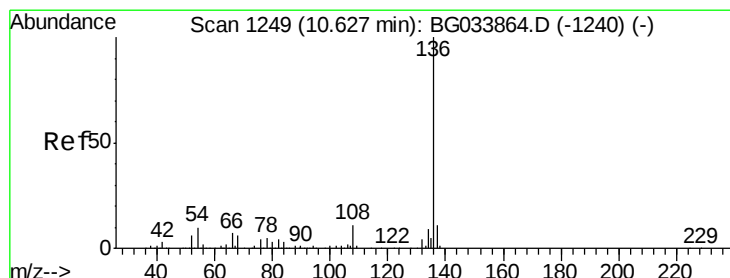
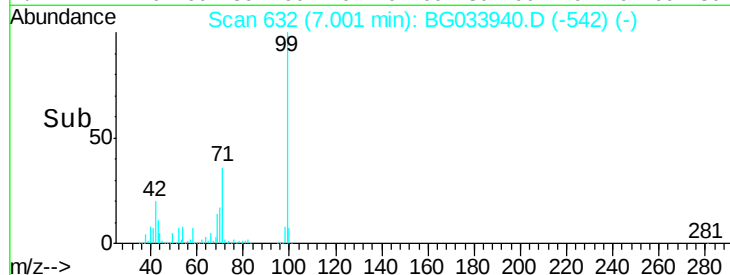
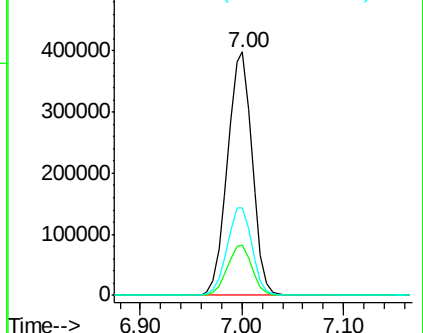
99 100

42 20.4 14.1 21.1

71 35.9 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: 10.61 min Scan# 1246

Delta R.T. -0.02 min

Lab File: BG033940.D

Acq: 24 Apr 2018 4:14

Tgt Ion: 136 Resp: 271350

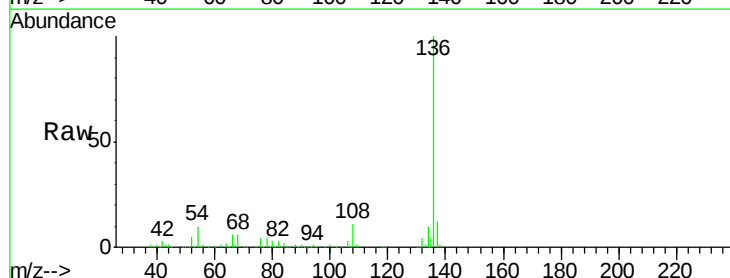
Ion Ratio Lower Upper

136 100

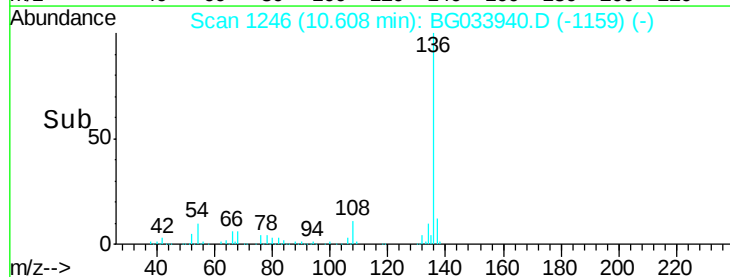
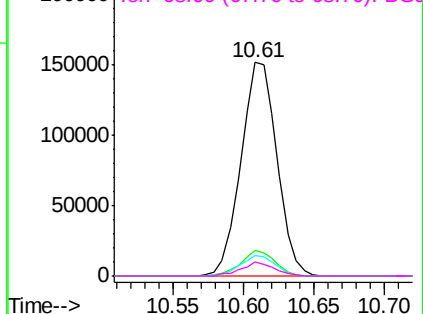
137 11.9 9.2 13.8

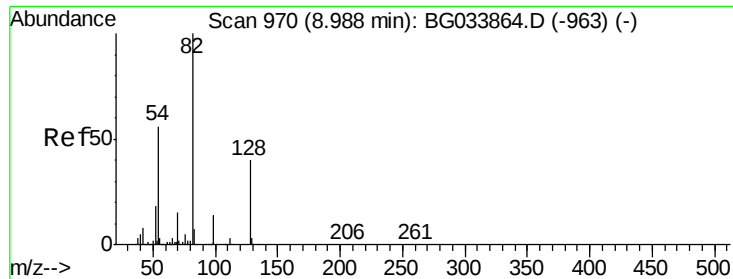
54 9.7 10.3 15.5#

68 6.4 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

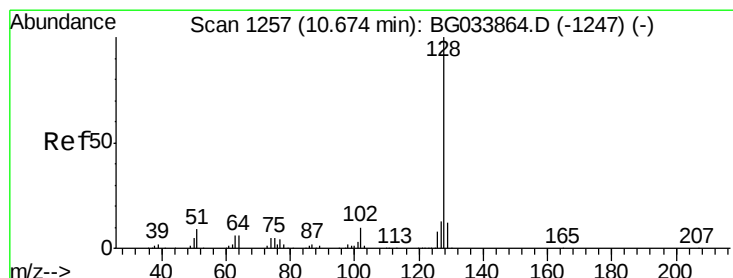
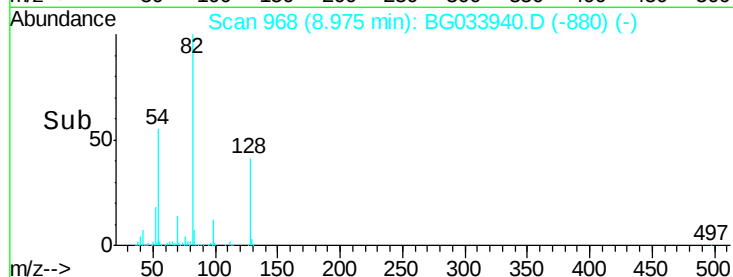
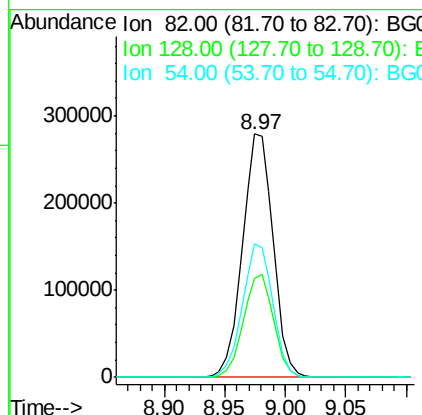
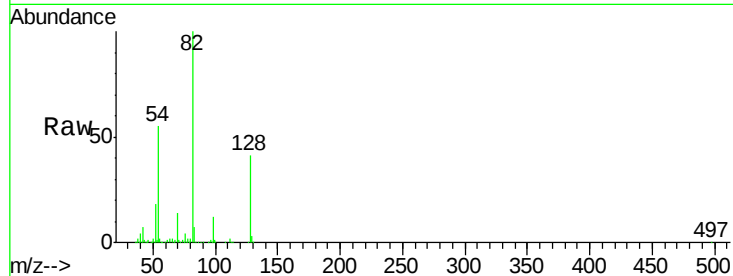




#23  
 Nitrobenzene-d5  
 Concen: 103.511 ng  
 RT: 8.97 min Scan# 968  
 Delta R.T. -0.01 min  
 Lab File: BG033940.D  
 Acq: 24 Apr 2018 4:14

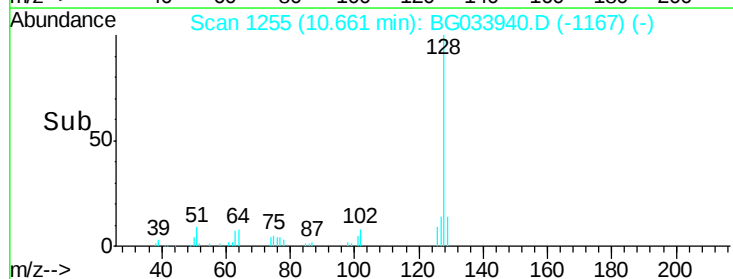
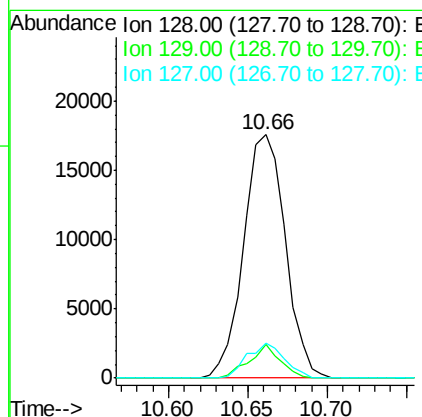
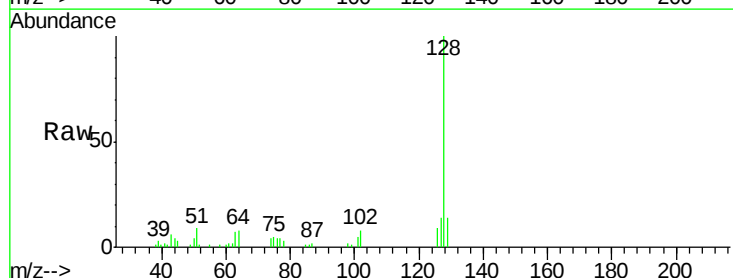
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RS-RO-1-7-A

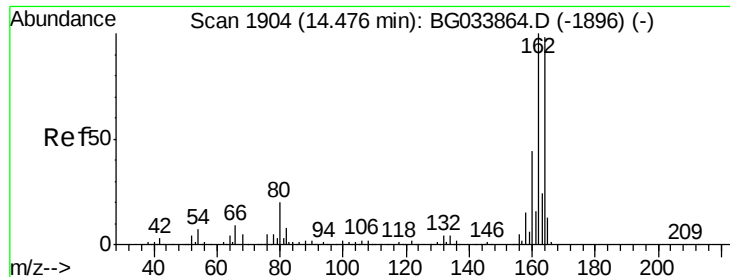
| Tot Ion   | 82    | Resp  | 493550 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.8  | 29.7  | 44.5   |
| 54        | 55.0  | 43.1  | 64.7   |



#31  
 Naphthalene  
 Concen: 2.307 ng  
 RT: 10.66 min Scan# 1255  
 Delta R.T. -0.01 min  
 Lab File: BG033940.D  
 Acq: 24 Apr 2018 4:14

| Tgt Ion   | 128   | Resp  | 32191 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 13.9  | 8.6   | 12.8# |
| 127       | 14.3  | 11.6  | 17.4  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.46 min Scan# 1902

Delta R.T. -0.01 min

Lab File: BG033940.D

Acq: 24 Apr 2018 4:14

Instrument :

BNA\_G

ClientSampleId :

RS-RO-1-7-A

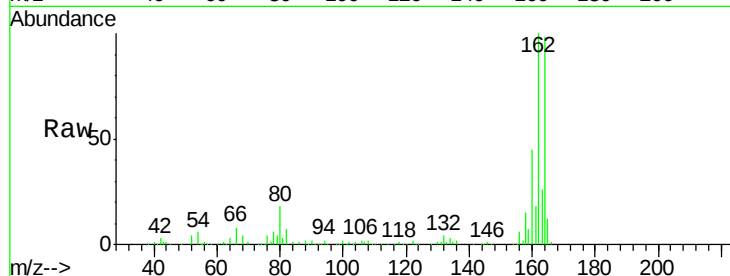
Tot Ion:164 Resp: 180275

Ion Ratio Lower Upper

164 100

162 102.3 78.8 118.2

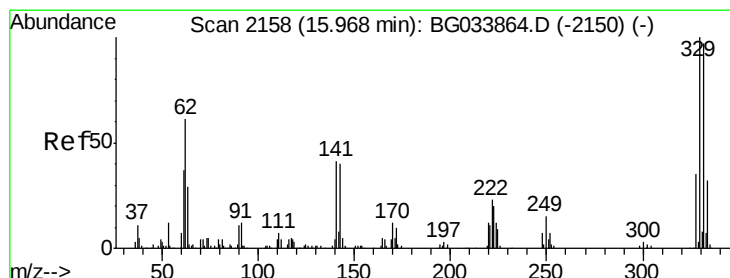
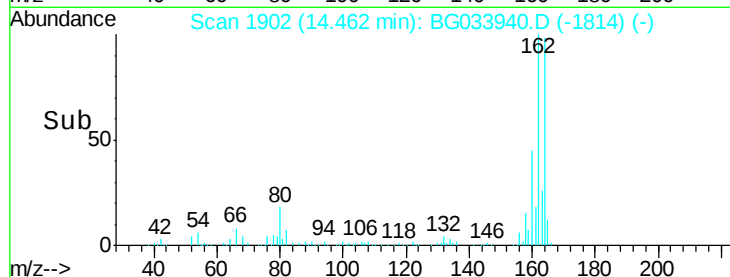
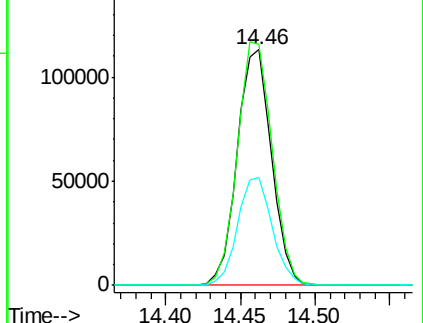
160 45.6 35.4 53.0



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



#41

2,4,6-Tribromophenol

Concen: 160.061 ng

RT: 15.95 min Scan# 2155

Delta R.T. -0.02 min

Lab File: BG033940.D

Acq: 24 Apr 2018 4:14

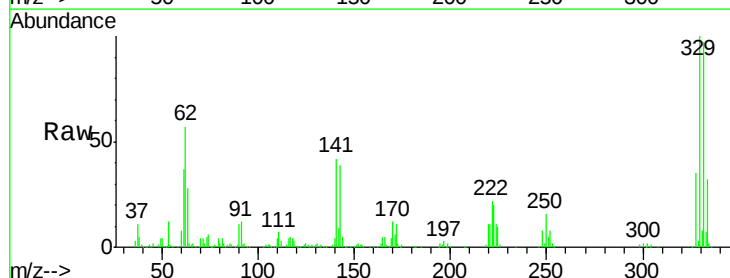
Tgt Ion:330 Resp: 336639

Ion Ratio Lower Upper

330 100

332 95.3 77.0 115.6

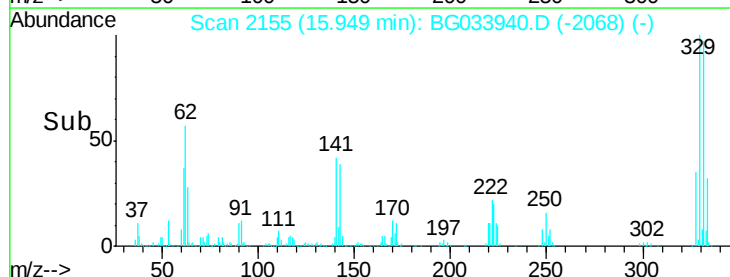
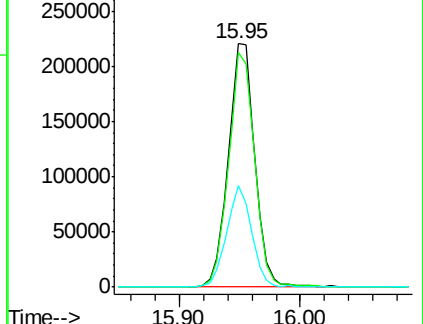
141 39.3 25.2 37.8#

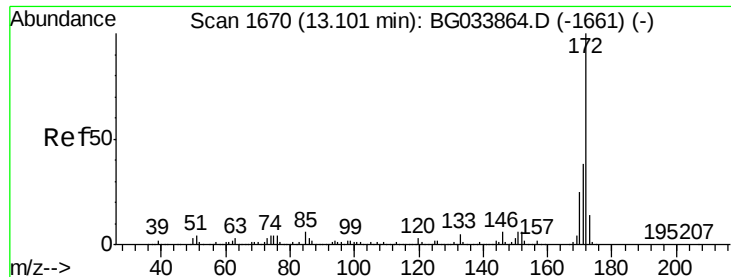


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



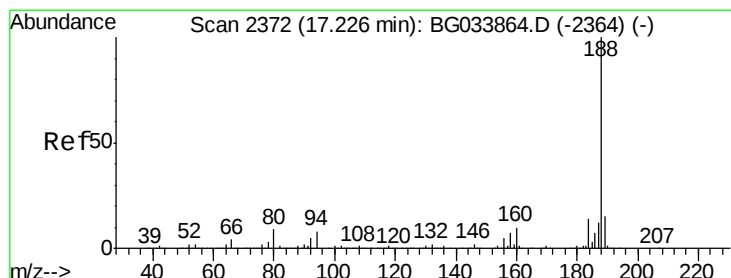
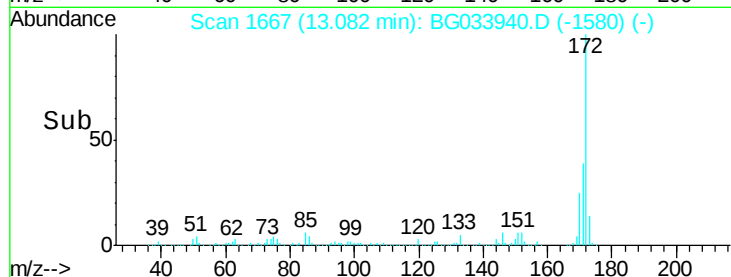
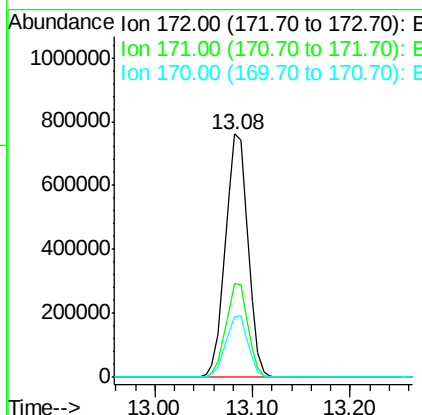
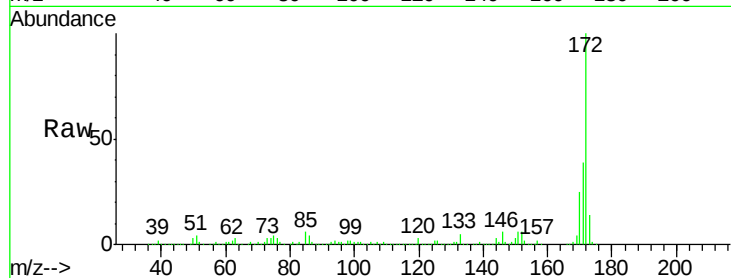


#44  
 2-Fluorobiphenyl  
 Concen: 99.089 ng  
 RT: 13.08 min Scan# 1667  
 Delta R.T. -0.02 min  
 Lab File: BG033940.D  
 Acq: 24 Apr 2018 4:14

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RS-RO-1-7-A

Tot Ion:172 Resp: 1215990  

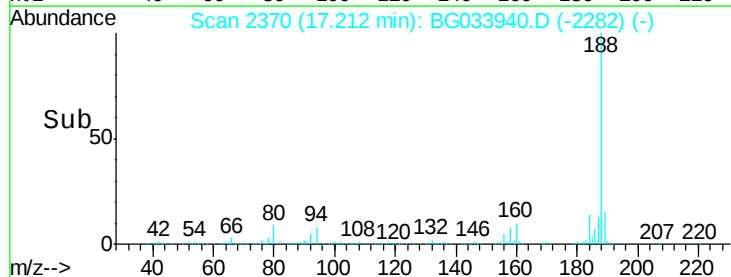
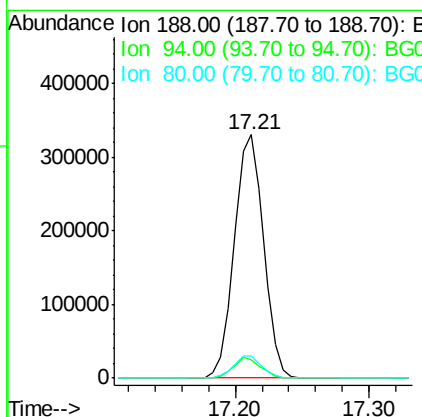
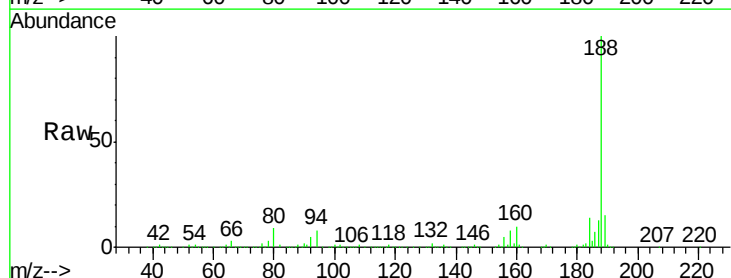
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 38.8  | 30.0  | 45.0  |
| 170 | 25.1  | 19.5  | 29.3  |

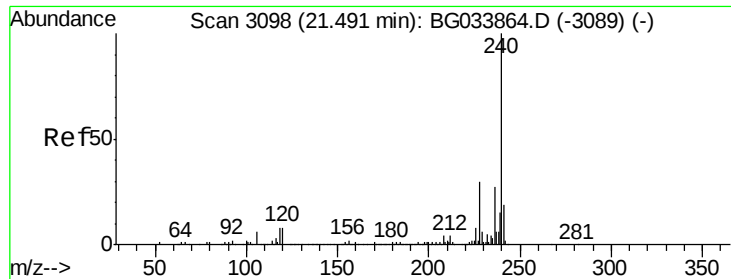


#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.21 min Scan# 2370  
 Delta R.T. -0.01 min  
 Lab File: BG033940.D  
 Acq: 24 Apr 2018 4:14

Tgt Ion:188 Resp: 502709  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 7.6   | 6.9   | 10.3  |
| 80  | 9.3   | 7.7   | 11.5  |

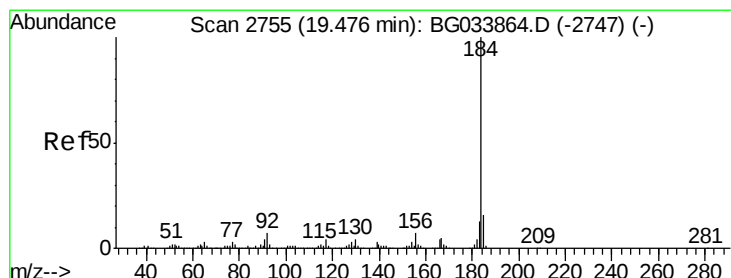
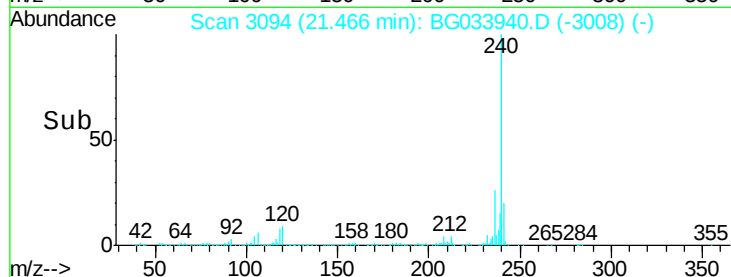
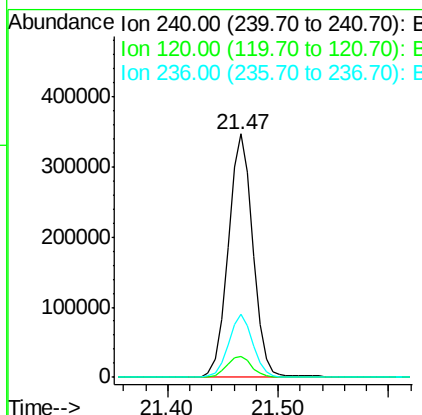
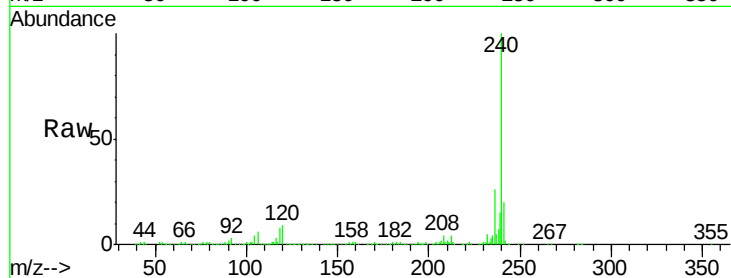




#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.47 min Scan# 3094  
 Delta R.T. -0.03 min  
 Lab File: BG033940.D  
 Acq: 24 Apr 2018 4:14

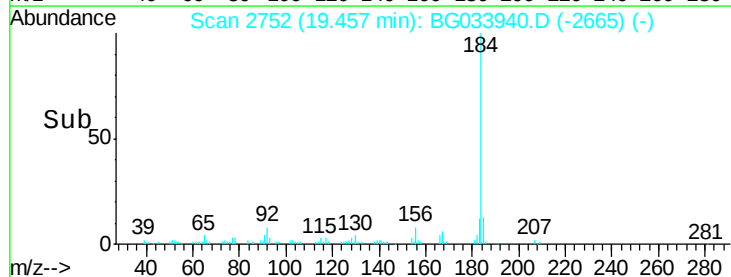
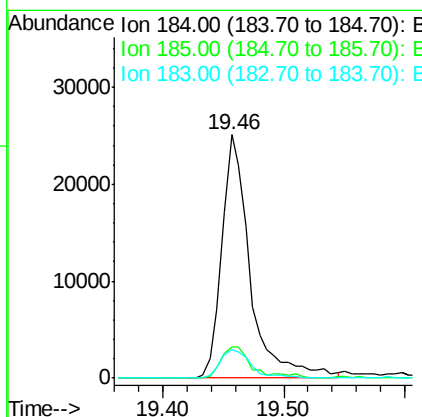
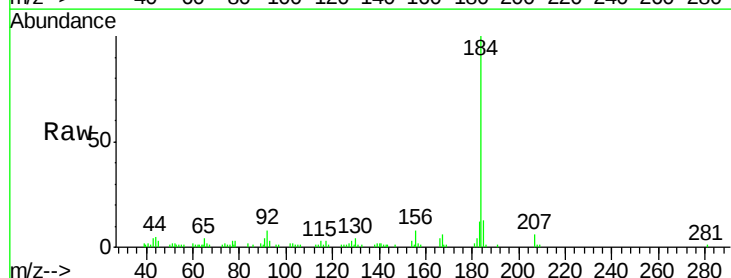
Instrument :  
 BNA\_G  
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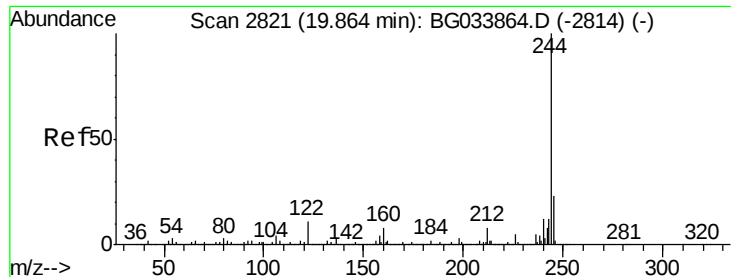
Tot Ion:240 Resp: 543635  
 Ion Ratio Lower Upper  
 240 100  
 120 8.8 6.8 10.2  
 236 25.8 20.9 31.3



#76  
 Benzidine  
 Concen: 2.777 ng  
 RT: 19.46 min Scan# 2752  
 Delta R.T. -0.02 min  
 Lab File: BG033940.D  
 Acq: 24 Apr 2018 4:14

Tgt Ion:184 Resp: 40773  
 Ion Ratio Lower Upper  
 184 100  
 185 12.8 11.1 16.7  
 183 11.9 10.6 16.0





#78

Terphenyl-d14

Concen: 95.106 ng

RT: 19.85 min Scan# 2819

Delta R.T. -0.01 min

Lab File: BG033940.D

Acq: 24 Apr 2018 4:14

Instrument :

BNA\_G

ClientSampleId :

RS-RO-1-7-A

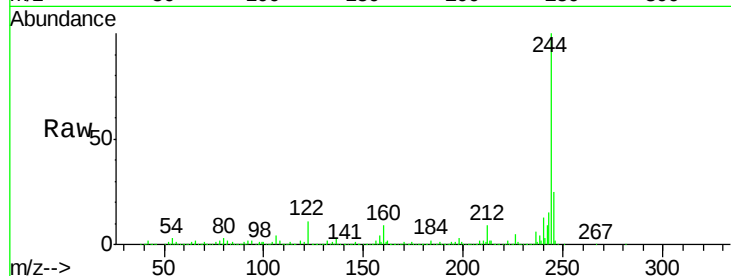
Tot Ion:244 Resp: 2301361

Ion Ratio Lower Upper

244 100

212 9.1 5.8 8.8#

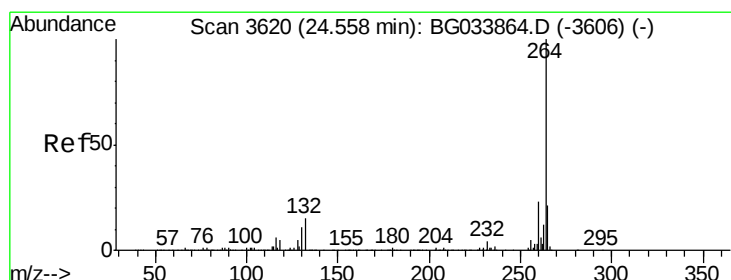
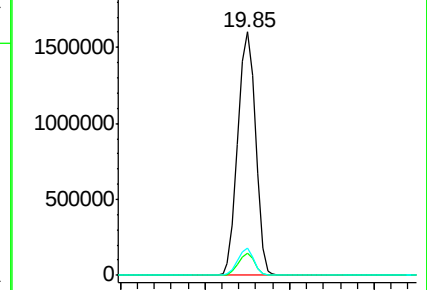
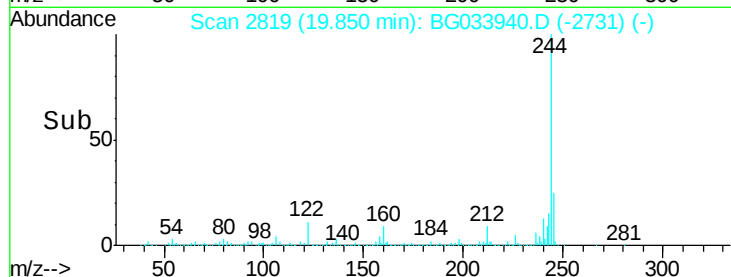
122 11.1 7.0 10.4#



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

Perylene-d12

Concen: 20.000 ng

RT: 24.52 min Scan# 3614

Delta R.T. -0.04 min

Lab File: BG033940.D

Acq: 24 Apr 2018 4:14

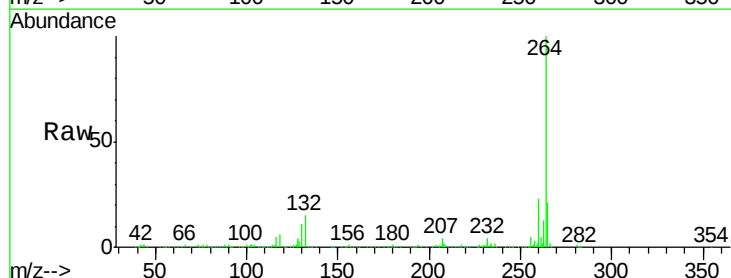
Tgt Ion:264 Resp: 529774

Ion Ratio Lower Upper

264 100

260 22.7 17.4 26.0

265 21.2 17.7 26.5



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

