

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG042320\  
 Data File : BG045141.D  
 Acq On : 23 Apr 2020 14:32  
 Operator : CG/JU  
 Sample : L2358-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 23 15:17:54 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 23 13:58:55 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 93669    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.81 | 136  | 374372   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.64 | 164  | 268809   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.39 | 188  | 599028   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.65 | 240  | 515036   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.83 | 264  | 554497   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.57  | 112 | 382135  | 67.35 | ng | 0.00 |
| 7) Phenol-d6             | 7.17  | 99  | 630911  | 74.84 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.16  | 82  | 435101  | 53.03 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.13 | 330 | 341193  | 82.16 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.26 | 172 | 1044735 | 56.99 | ng | 0.00 |
| 79) Terphenyl-d14        | 20.00 | 244 | 1556640 | 65.88 | ng | 0.00 |

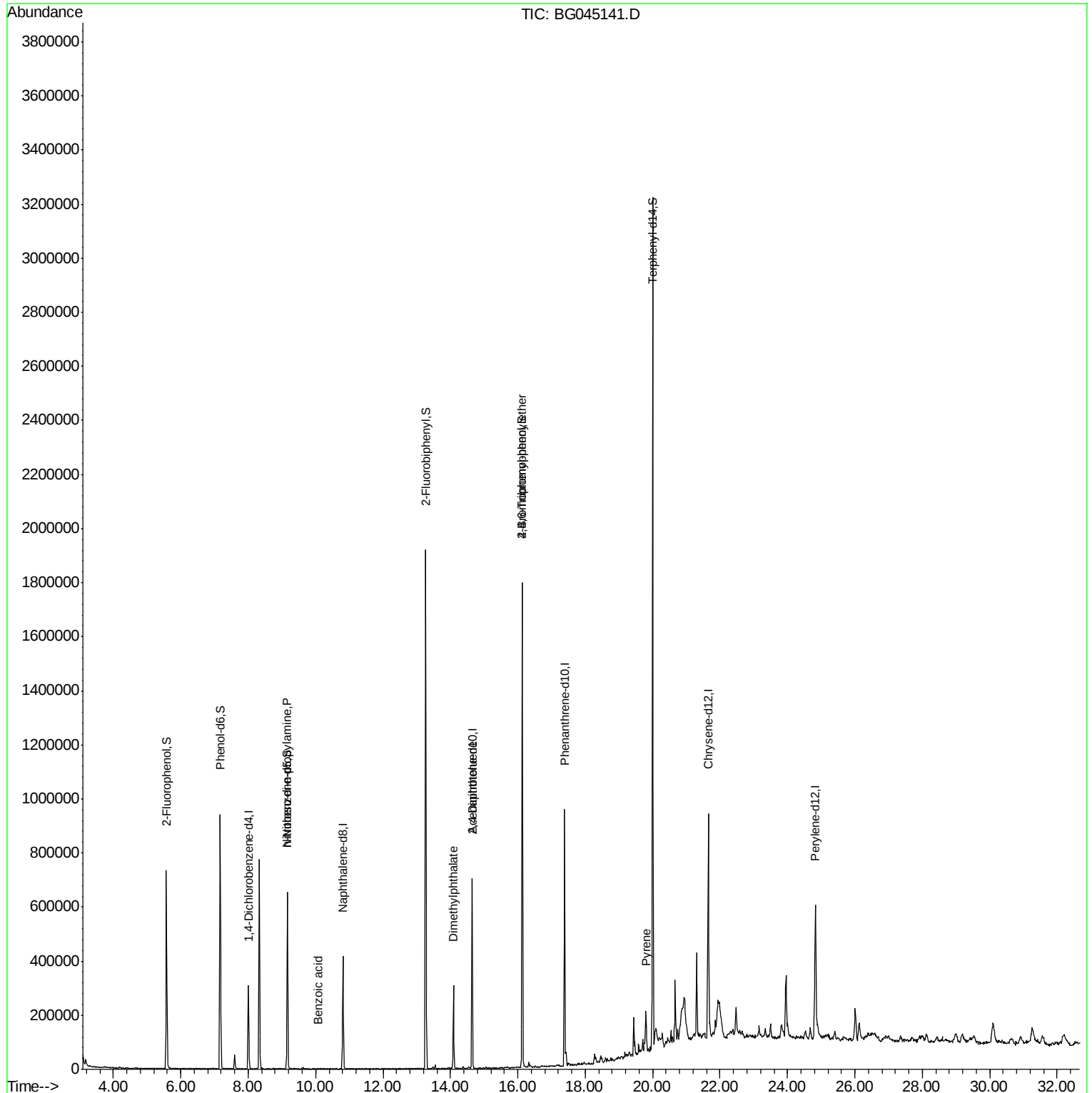
## Target Compounds

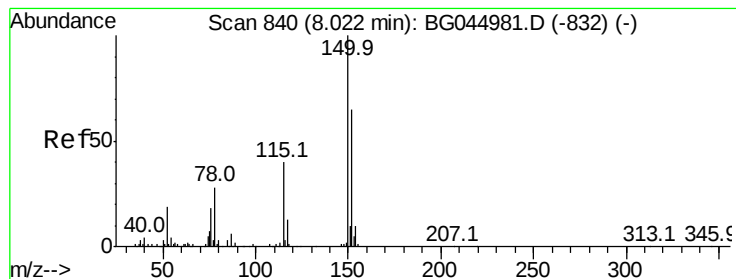
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 7.17  | 77  | 1340   | Below Cal | # | 14     |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70  | 58612  | 9.832 ng  | # | 78     |
| 32) Benzoic acid               | 10.06 | 122 | 77     | 6.388 ng  | # | 1      |
| 50) Dimethylphthalate          | 14.09 | 163 | 209711 | 9.581 ng  |   | 100    |
| 57) 2,4-Dinitrotoluene         | 14.64 | 165 | 35753  | 4.997 ng  | # | 22     |
| 67) 4-Bromophenyl-phenylether  | 16.13 | 248 | 23355  | 3.022 ng  | # | 1      |
| 69) Atrazine                   | 17.05 | 200 | 53     | Below Cal | # | 1      |
| 74) Di-n-butylphthalate        | 18.34 | 149 | 2895   | Below Cal | # | 76     |
| 75) Fluoranthene               | 19.44 | 202 | 85966  | Below Cal |   | 99     |
| 77) Benzidine                  | 20.00 | 184 | 29906  | Below Cal | # | 89     |
| 78) Pyrene                     | 19.80 | 202 | 86344  | 2.432 ng  |   | 96     |

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

```
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Data File : BG045141.D  
Acq On    : 23 Apr 2020 14:32  
Operator  : CG/JU  
Sample    : L2358-01  
Misc      :  
ALS Vial  : 4      Sample Multiplier: 1
```

Quant Time: Apr 23 15:17:54 2020  
Quant Method : Z:\SV0ASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Apr 23 13:58:55 2020  
Response via : Initial Calibration



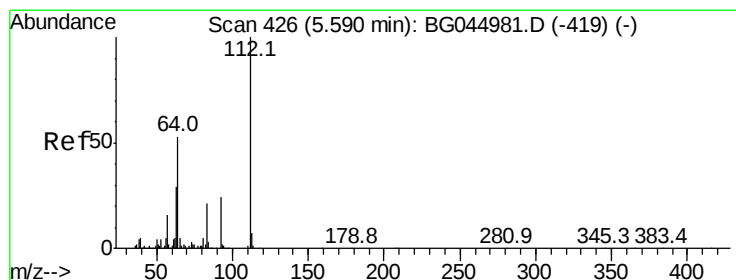
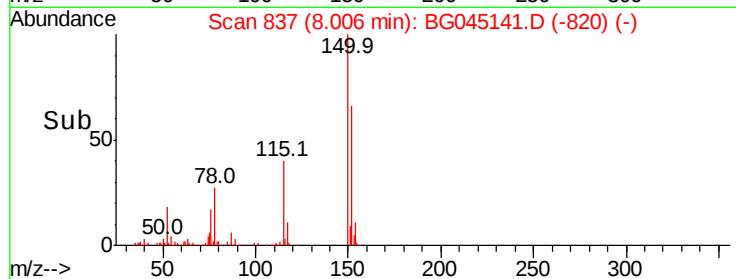
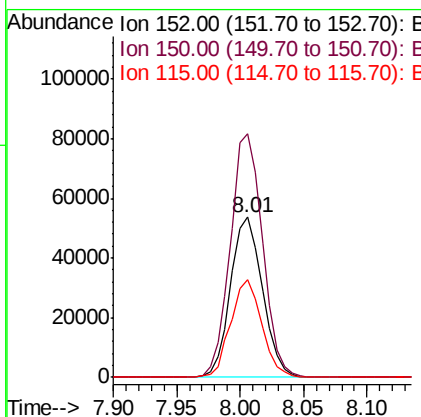
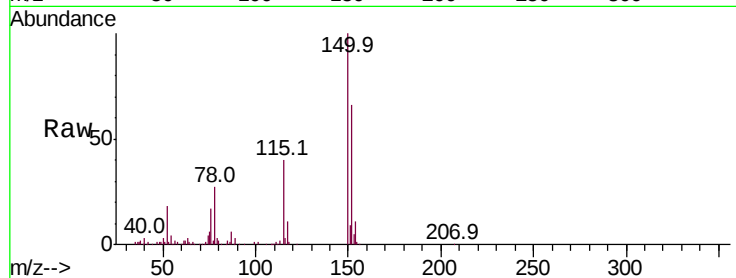


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 837  
Delta R.T. 0.00 min  
Lab File: BG045141.D  
Acq: 23 Apr 2020 14:32

Instrument :  
BNA\_G  
ClientSampleId :

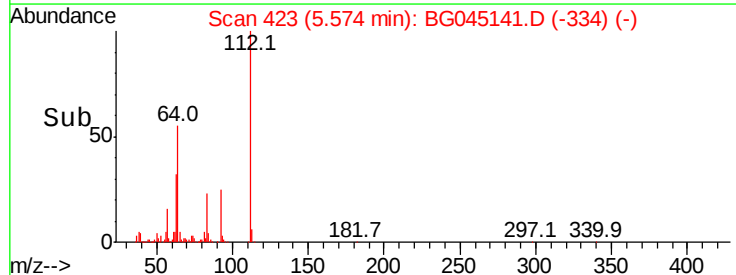
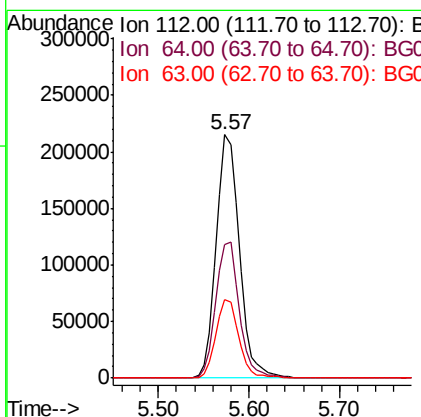
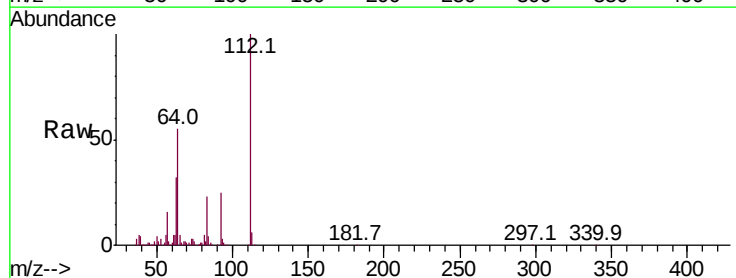
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.1 | 123.6 | 185.4 |
| 115     | 61.4  | 49.1  | 73.7  |



#5

2-Fluorophenol  
Concen: 67.353 ng  
RT: 5.57 min Scan# 423  
Delta R.T. -0.00 min  
Lab File: BG045141.D  
Acq: 23 Apr 2020 14:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.6  | 42.4  | 63.6  |
| 63      | 32.0  | 23.1  | 34.7  |





#7

Phenol-d6

Concen: 74.844 ng

RT: 7.17 min Scan# 695

Delta R.T. 0.00 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

Instrument :

BNA\_G

ClientSampleId :

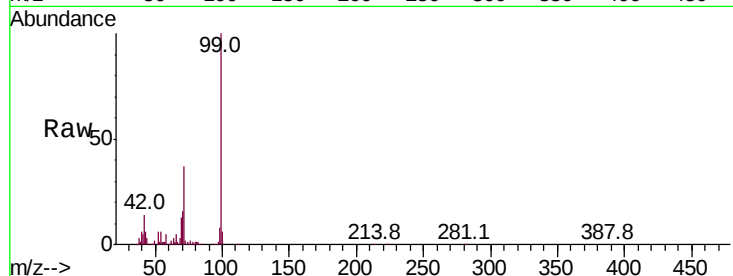
Tot Ion: 99 Resp: 630911

Ion Ratio Lower Upper

99 100

42 13.5 11.3 16.9

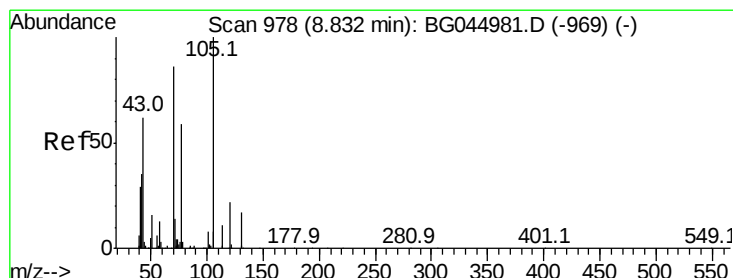
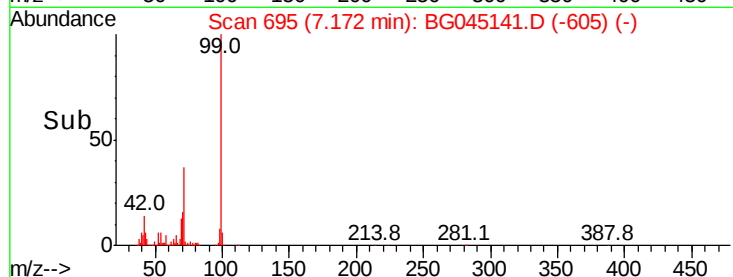
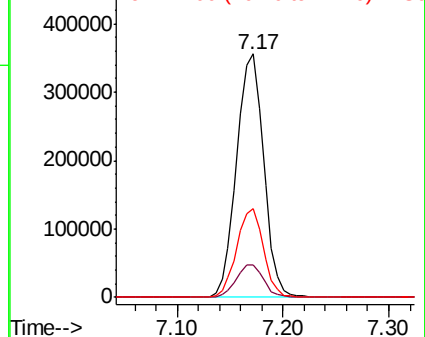
71 36.5 28.3 42.5



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: 9.832 ng

RT: 9.16 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

Tgt Ion: 70 Resp: 58612

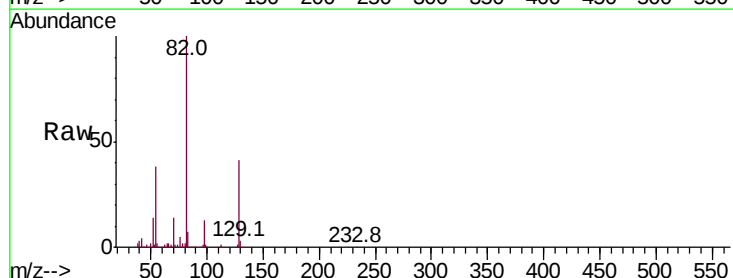
Ion Ratio Lower Upper

70 100

42 32.8 33.3 49.9#

101 0.0 7.8 11.8#

130 2.2 15.8 23.6#

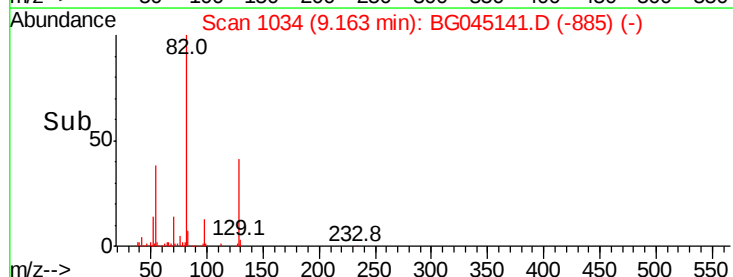
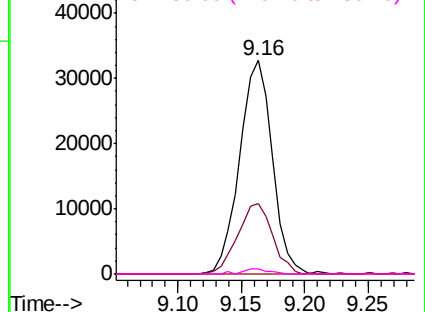


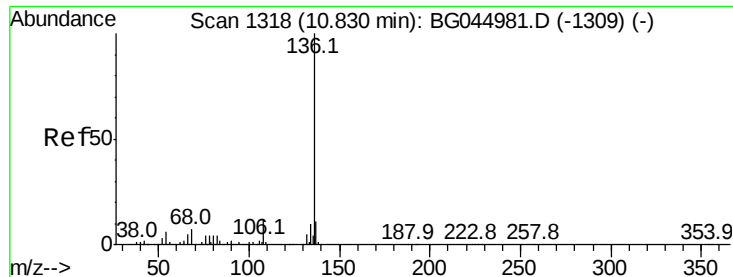
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

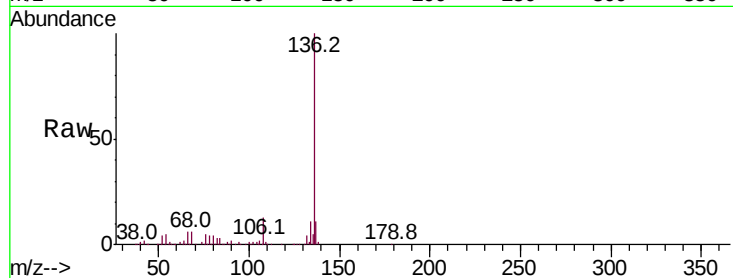




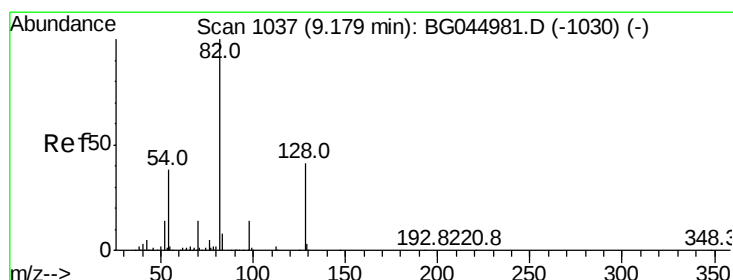
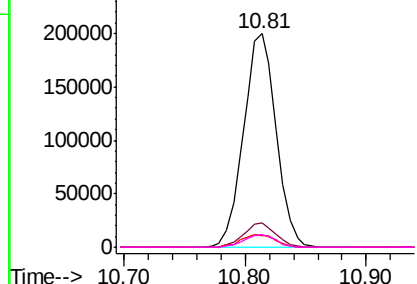
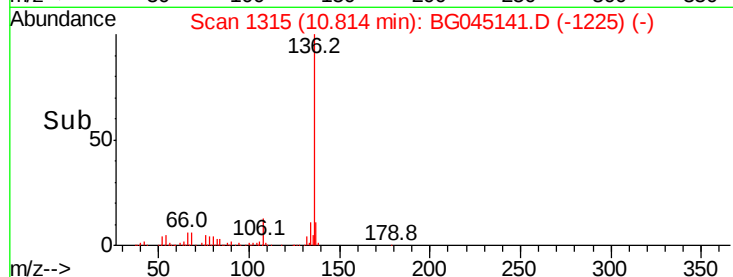
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.81 min Scan# 1315  
Delta R.T. 0.00 min  
Lab File: BG045141.D  
Acq: 23 Apr 2020 14:32

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 374372      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.3  | 8.6 13.0    |
| 54          | 5.5   | 4.8 7.2     |
| 68          | 5.9   | 5.2 7.8     |

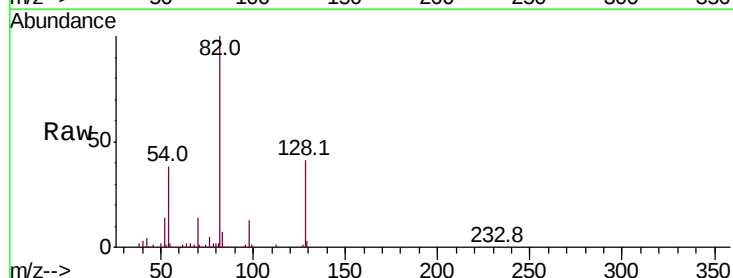


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

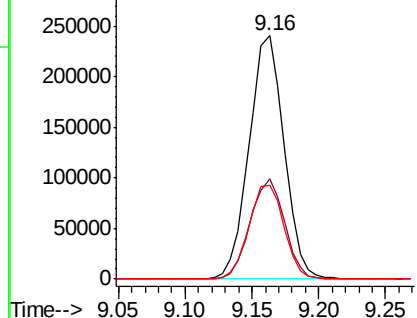
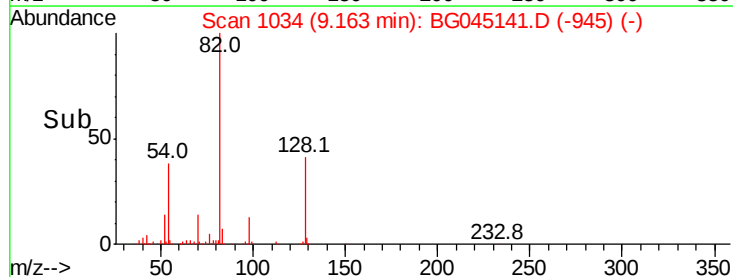


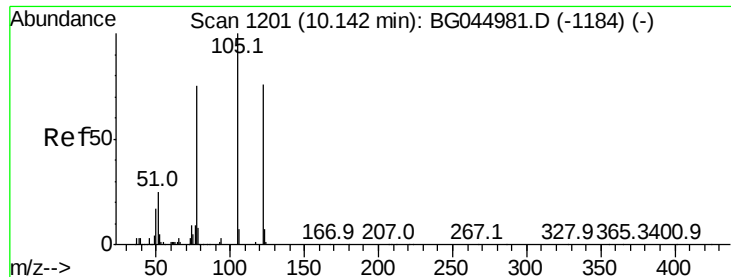
#23  
Nitrobenzene-d5  
Concen: 53.031 ng  
RT: 9.16 min Scan# 1034  
Delta R.T. -0.00 min  
Lab File: BG045141.D  
Acq: 23 Apr 2020 14:32

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 435101      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 40.9  | 33.0 49.4   |
| 54          | 38.4  | 30.4 45.6   |



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





#32

Benzoic acid

Concen: 6.388 ng

RT: 10.06 min Scan# 1186

Delta R.T. -0.08 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

Instrument :

BNA\_G

ClientSampleId :

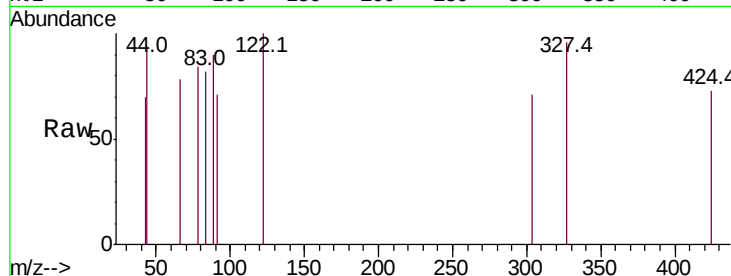
Tot Ion:122 Resp: 77

Ion Ratio Lower Upper

122 100

105 0.0 108.4 148.4#

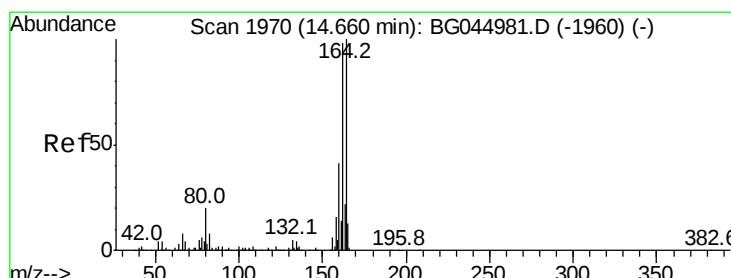
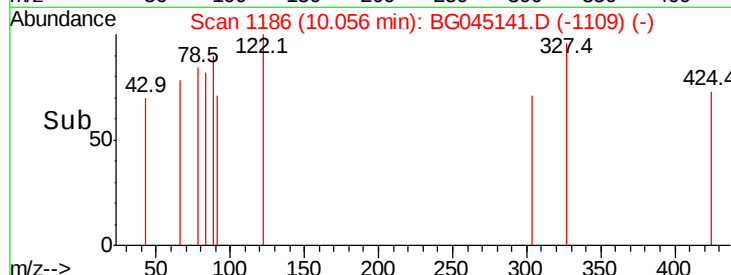
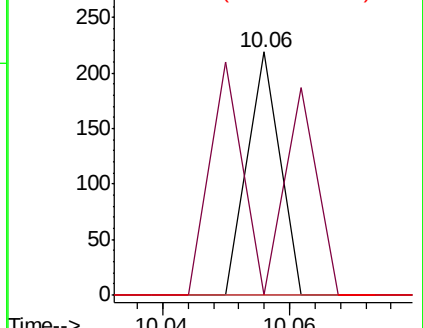
77 0.0 78.8 118.8#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): B



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.64 min Scan# 1967

Delta R.T. 0.00 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

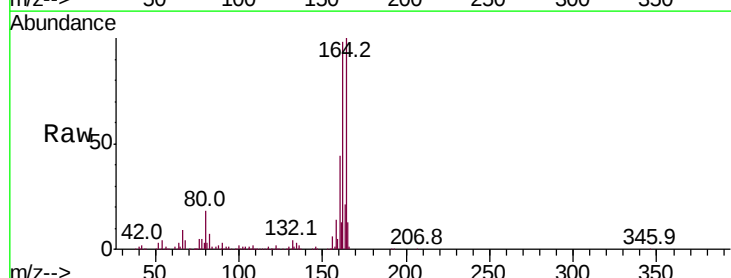
Tgt Ion:164 Resp: 268809

Ion Ratio Lower Upper

164 100

162 97.7 78.7 118.1

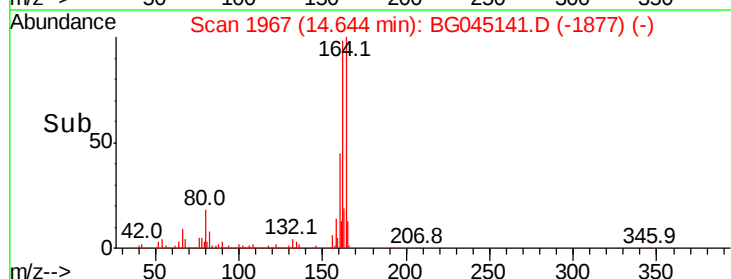
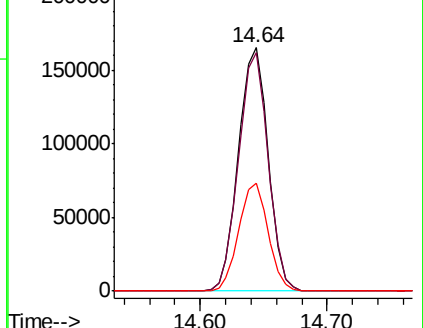
160 44.5 32.8 49.2

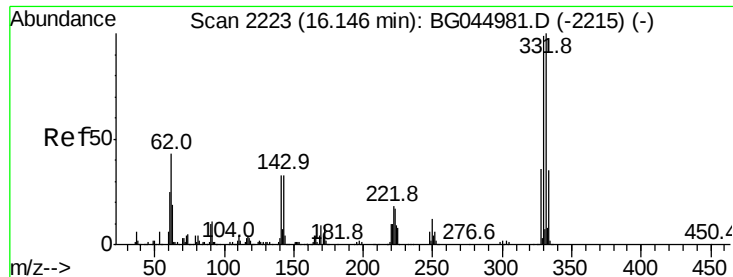


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

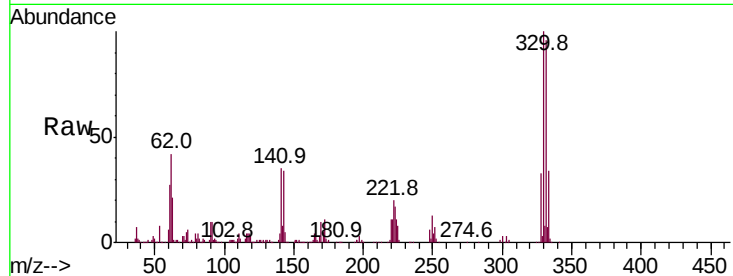




#42  
 2,4,6-Tribromophenol  
 Concen: 82.161 ng  
 RT: 16.13 min Scan# 2220  
 Delta R.T. -0.00 min  
 Lab File: BG045141.D  
 Acq: 23 Apr 2020 14:32

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 79.1  | 118.7 |
| 141     | 35.0  | 27.1  | 40.7  |

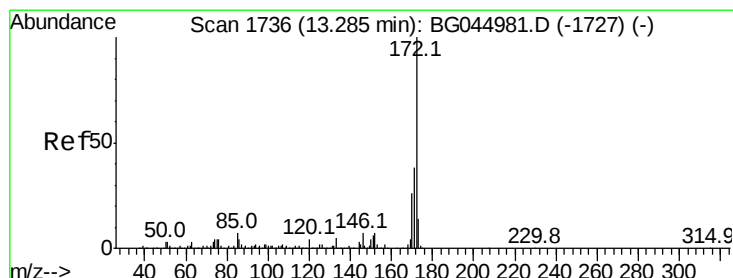
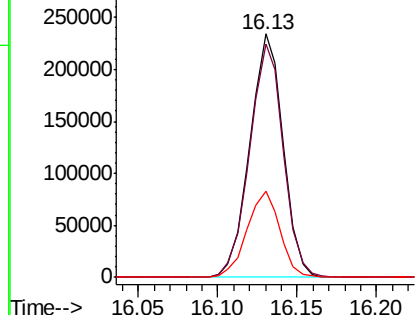
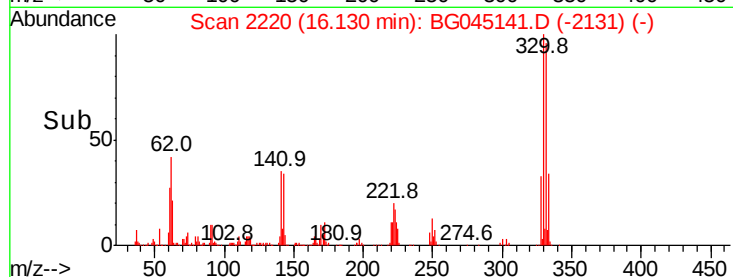


Abundance

Ion 329.80 (329.50 to 330.50): E

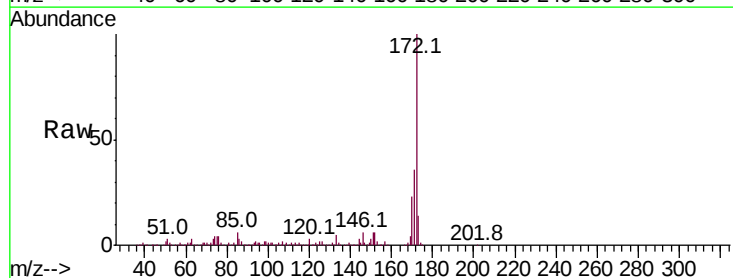
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 56.989 ng  
 RT: 13.26 min Scan# 1732  
 Delta R.T. -0.00 min  
 Lab File: BG045141.D  
 Acq: 23 Apr 2020 14:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 30.6  | 46.0  |
| 170     | 23.2  | 20.5  | 30.7  |

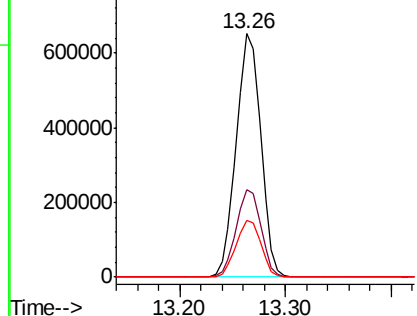
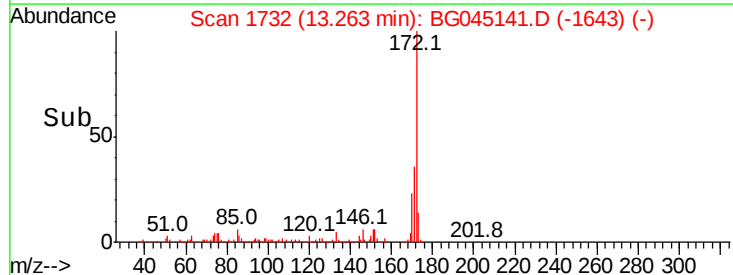


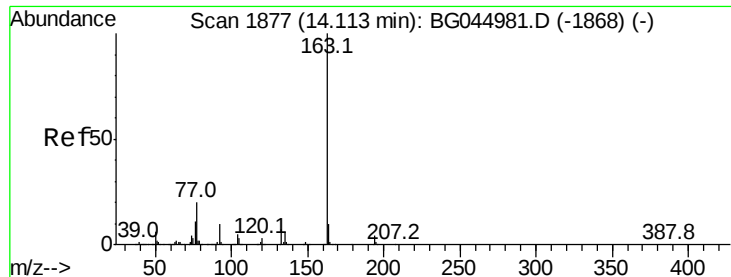
Abundance

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

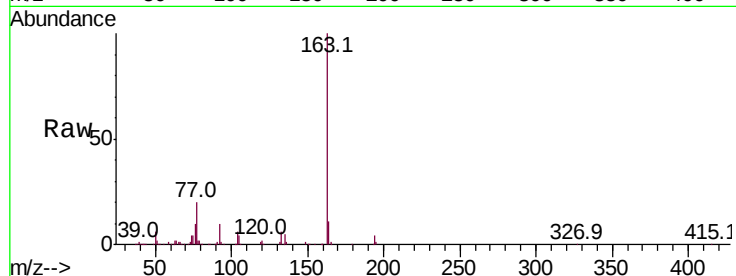




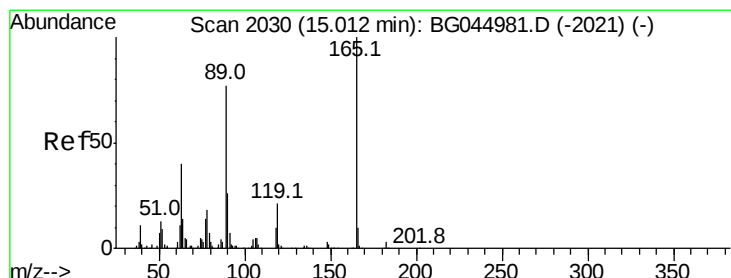
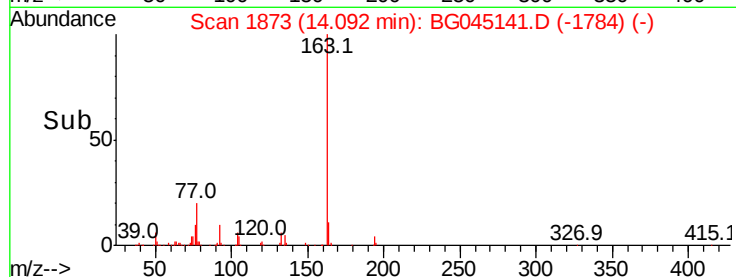
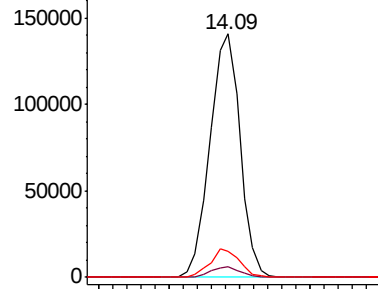
#50  
Dimethylphthalate  
Concen: 9.581 ng  
RT: 14.09 min Scan# 1873  
Delta R.T. -0.00 min  
Lab File: BG045141.D  
Acq: 23 Apr 2020 14:32

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.5   | 5.3   |
| 164     | 10.5  | 8.2   | 12.4  |

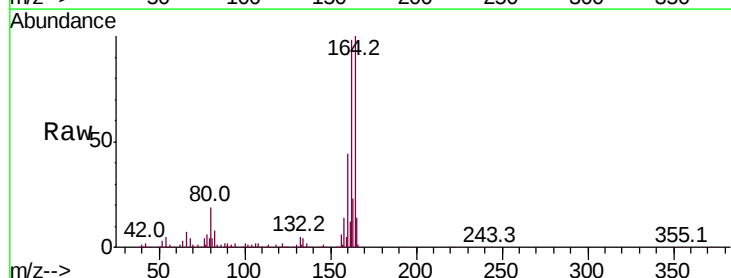


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

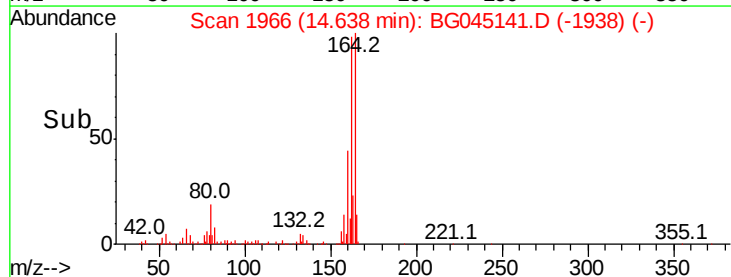
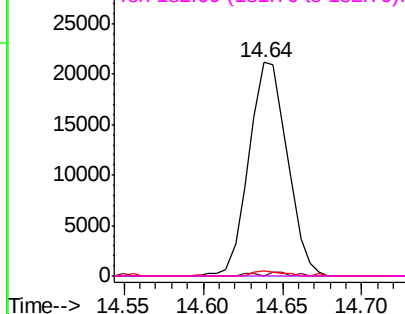


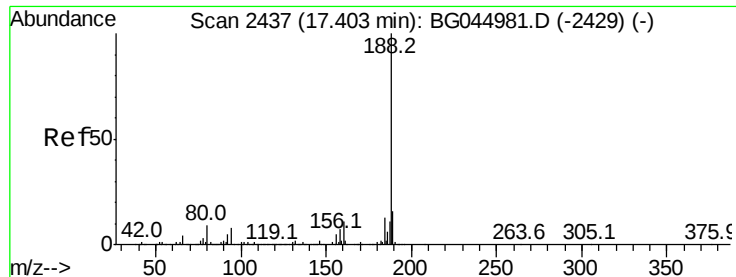
#57  
2,4-Dinitrotoluene  
Concen: 4.997 ng  
RT: 14.64 min Scan# 1966  
Delta R.T. -0.36 min  
Lab File: BG045141.D  
Acq: 23 Apr 2020 14:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 32.2  | 48.2# |
| 89      | 2.2   | 61.7  | 92.5# |
| 182     | 0.0   | 2.0   | 3.0#  |



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: 17.39 min Scan# 2434

Delta R.T. -0.00 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

Instrument :

BNA\_G

ClientSampled :

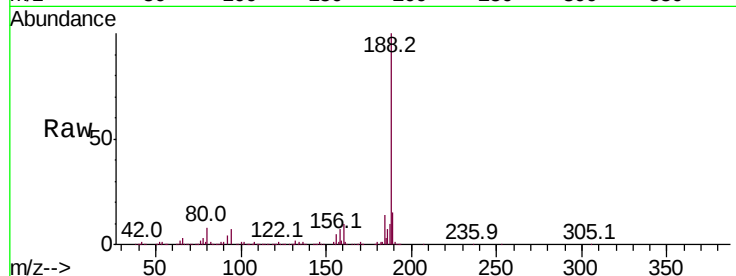
Tot Ion:188 Resp: 599028

Ion Ratio Lower Upper

188 100

94 7.5 6.2 9.4

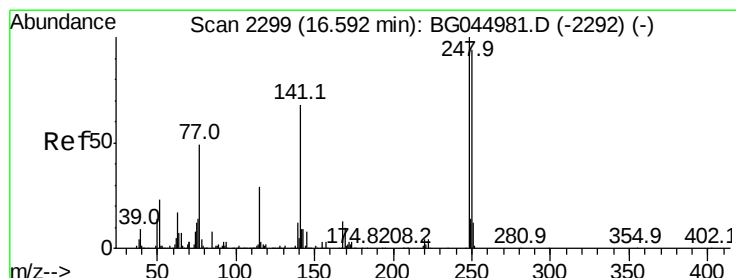
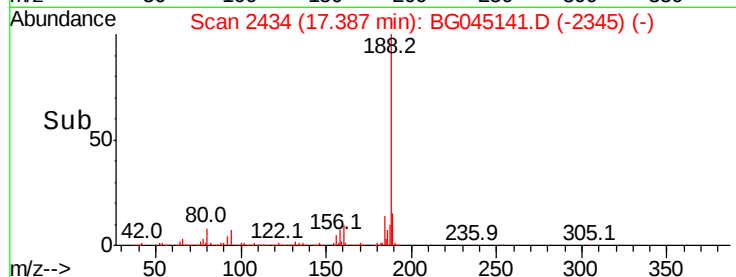
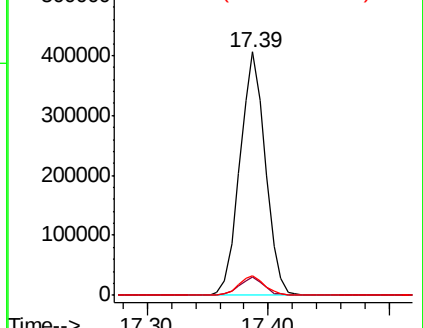
80 7.8 7.0 10.6



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



#67

4-Bromophenyl-phenylether

Concen: 3.022 ng

RT: 16.13 min Scan# 2220

Delta R.T. -0.45 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

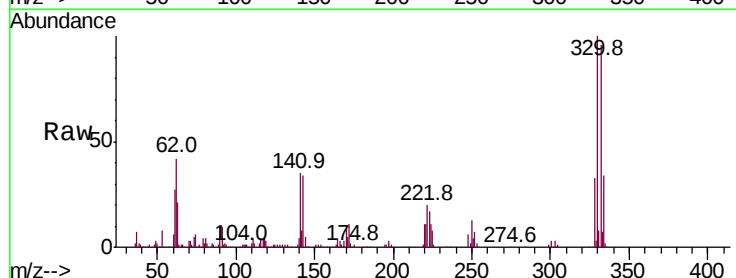
Tgt Ion:248 Resp: 23355

Ion Ratio Lower Upper

248 100

250 207.0 75.4 113.2#

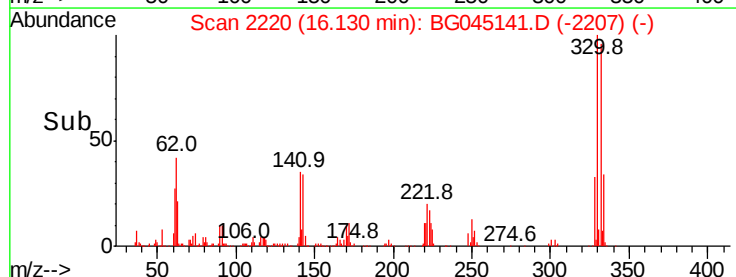
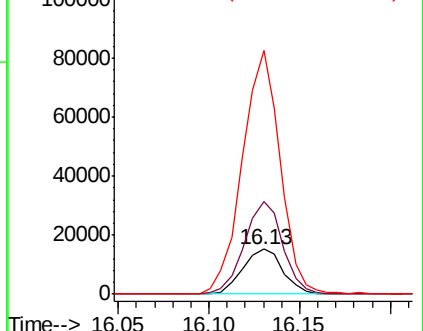
141 542.7 54.4 81.6#

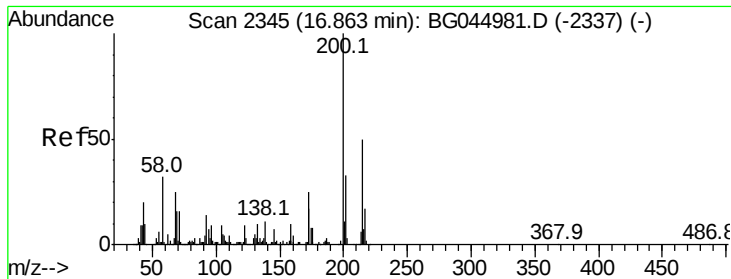


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#69

Atrazine

Concen: Below Cal

RT: 17.05 min Scan# 2377

Delta R.T. 0.21 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

Instrument :

BNA\_G

ClientSampled :

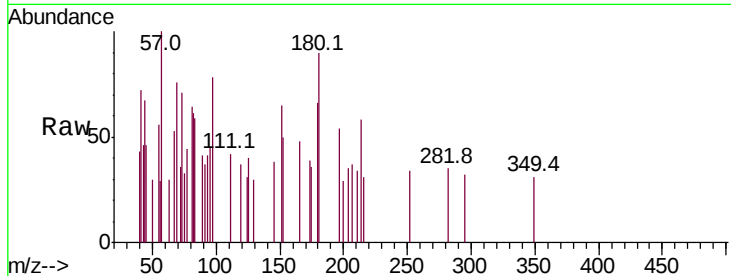
Tot Ion:200 Resp: 53

Ion Ratio Lower Upper

200 100

173 135.3 4.5 44.5#

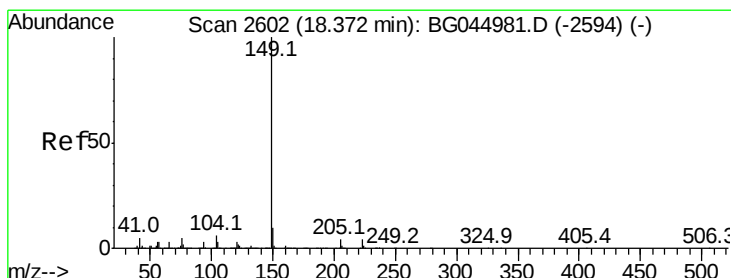
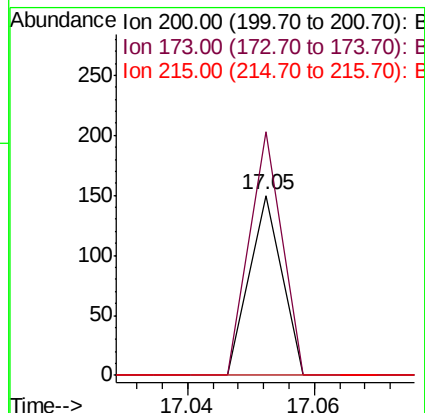
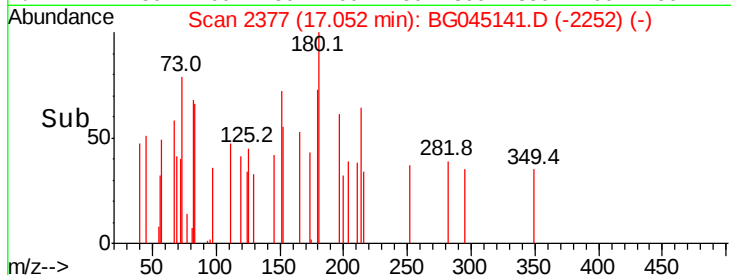
215 0.0 30.0 70.0#



Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#74

Di-n-butylphthalate

Concen: Below Cal

RT: 18.34 min Scan# 2597

Delta R.T. -0.01 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

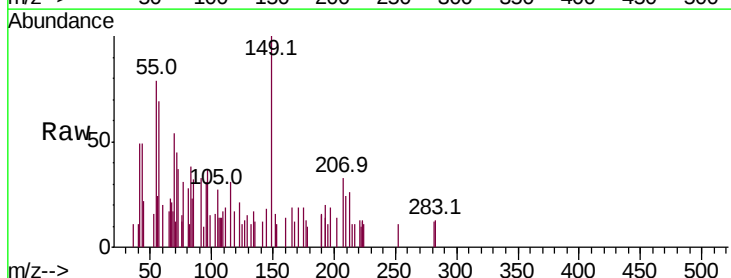
Tgt Ion:149 Resp: 2895

Ion Ratio Lower Upper

149 100

150 0.0 8.2 12.2#

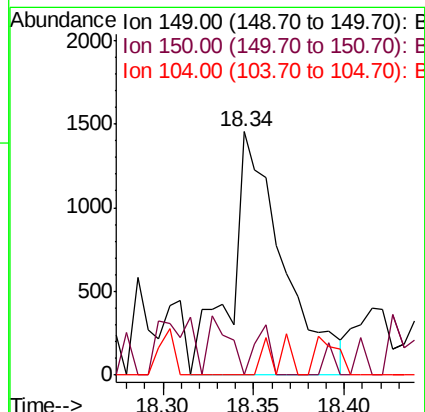
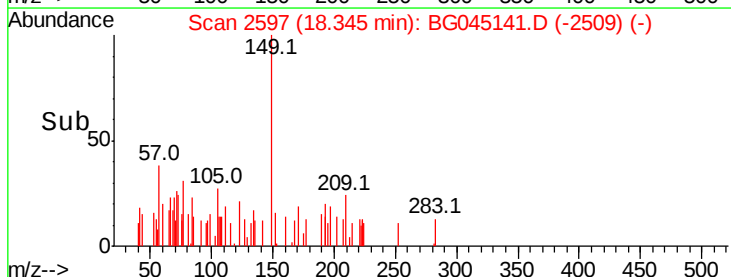
104 0.0 4.8 7.2#

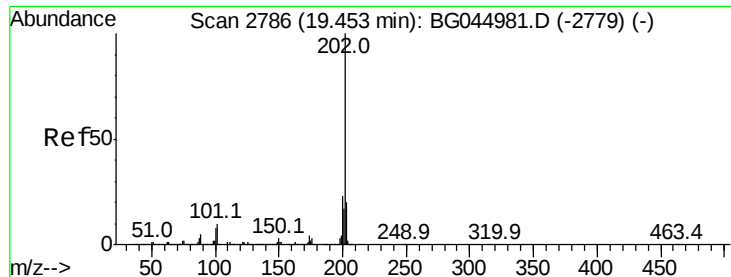


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: Below Cal

RT: 19.44 min Scan# 2783

Delta R.T. -0.00 min

Lab File: BG045141.D

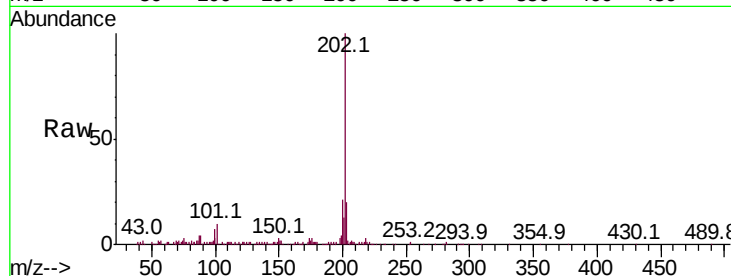
Acq: 23 Apr 2020 14:32

Instrument :

BNA\_G

ClientSampleId :

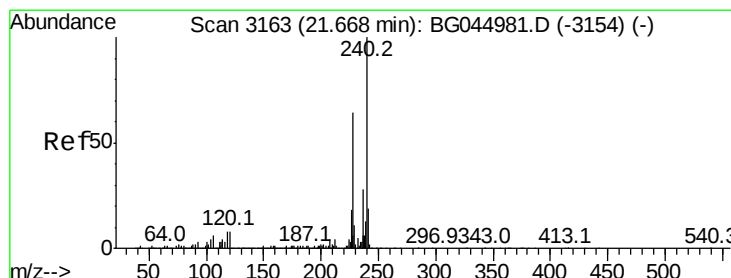
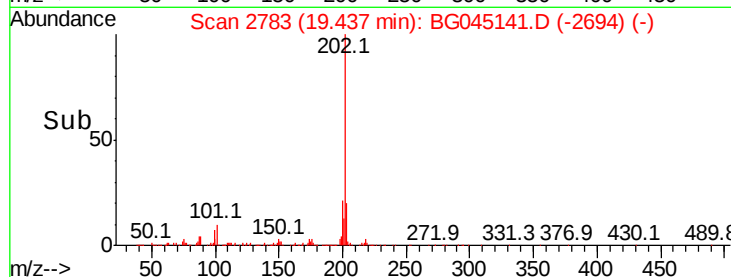
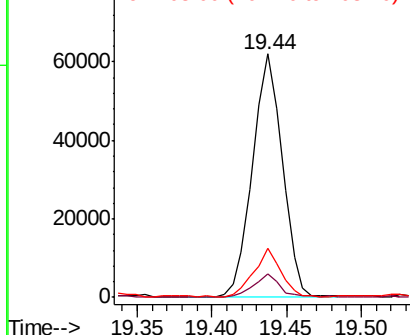
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 85966 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.7   | 0.0   | 29.6  |
| 203       | 20.3  | 0.0   | 39.7  |



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

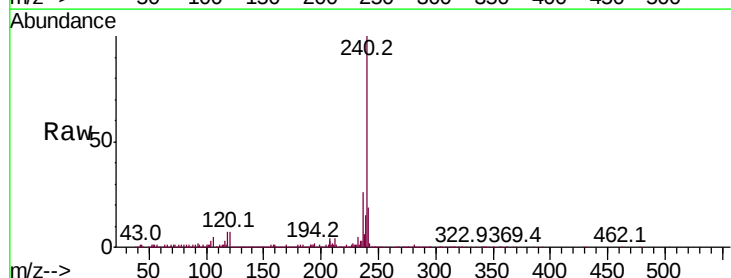
RT: 21.65 min Scan# 3160

Delta R.T. -0.00 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

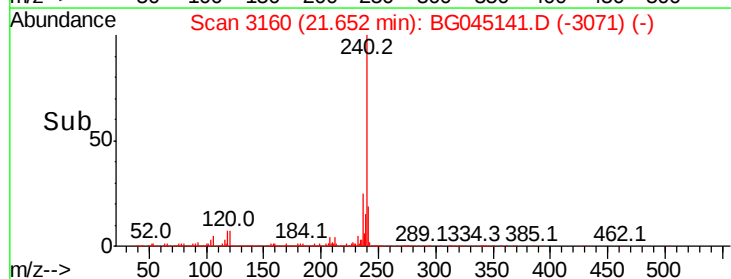
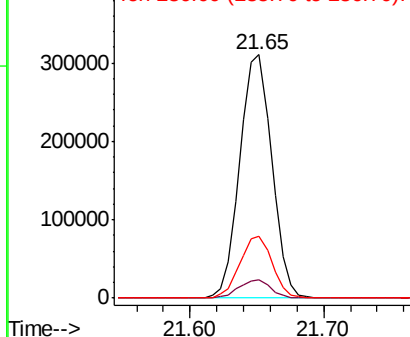
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 515036 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 7.4   | 6.6   | 10.0   |
| 236       | 25.6  | 22.2  | 33.2   |

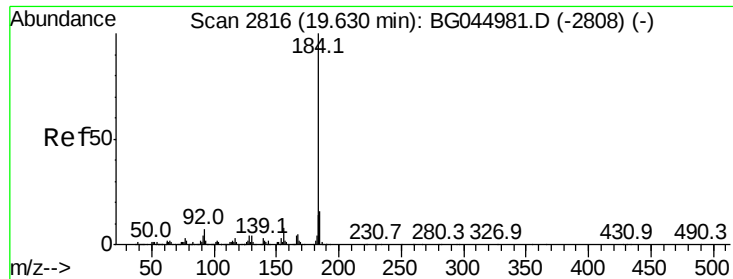


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: Below Cal

RT: 20.00 min Scan# 2879

Delta R.T. 0.39 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

Instrument :

BNA\_G

ClientSampleId :

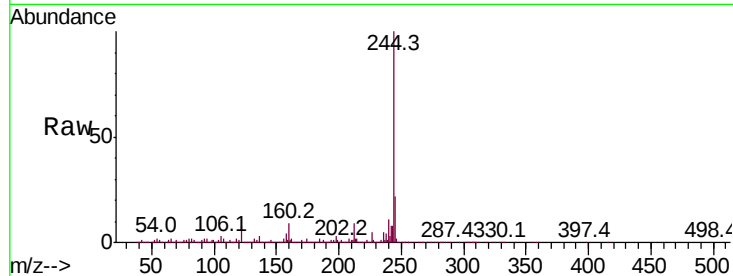
Tot Ion:184 Resp: 29906

Ion Ratio Lower Upper

184 100

185 13.4 12.6 19.0

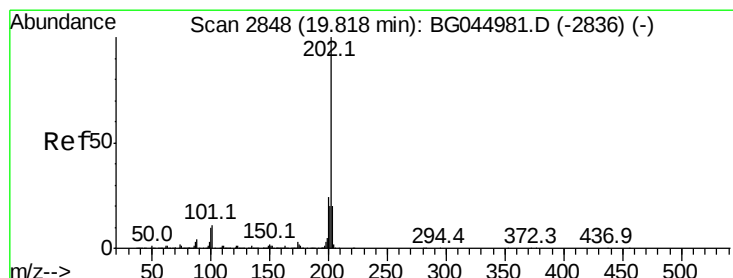
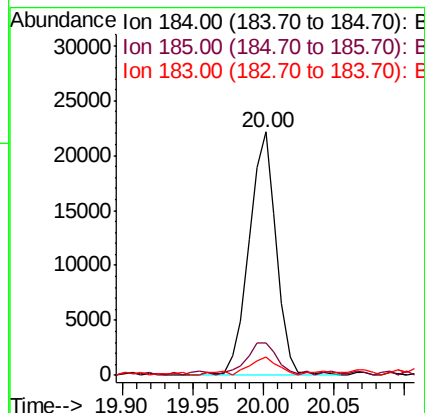
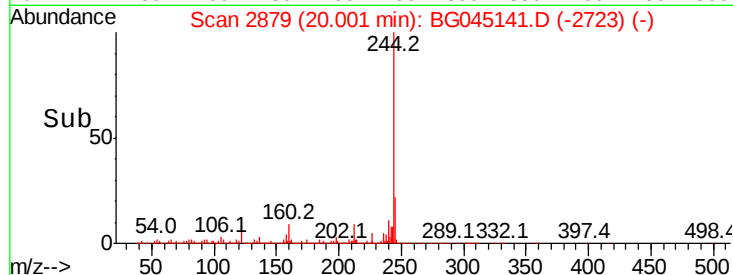
183 7.5 11.3 16.9#



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

Pyrene

Concen: 2.432 ng

RT: 19.80 min Scan# 2844

Delta R.T. -0.00 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

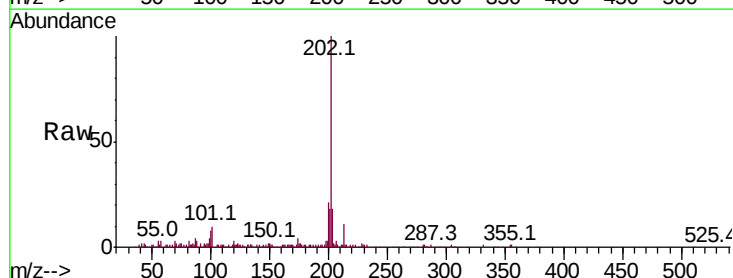
Tgt Ion:202 Resp: 86344

Ion Ratio Lower Upper

202 100

200 21.2 19.0 28.6

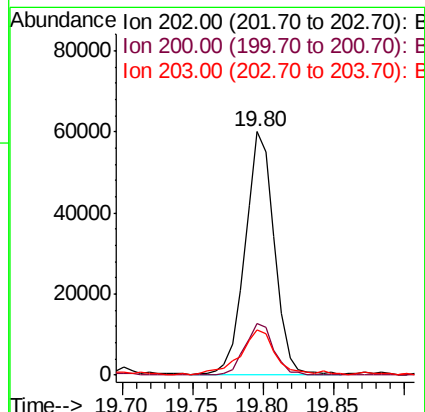
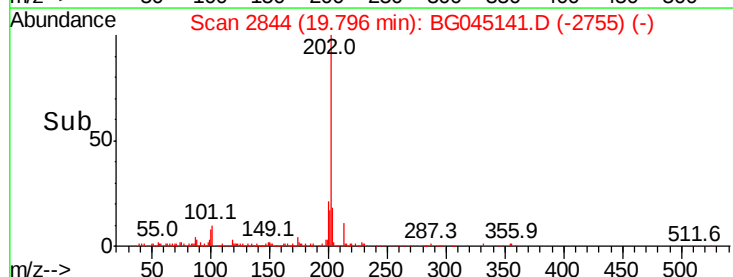
203 18.5 16.1 24.1

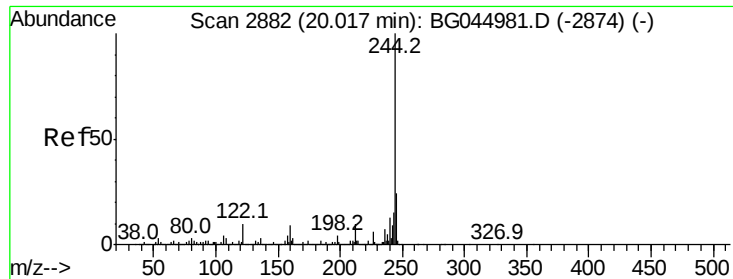


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 65.875 ng

RT: 20.00 min Scan# 2879

Delta R.T. 0.00 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

Instrument :

BNA\_G

ClientSampled :

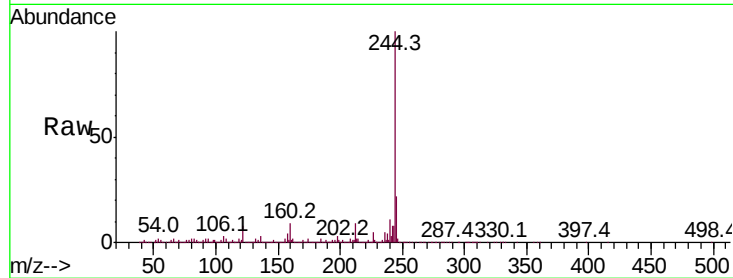
Tot Ion:244 Resp: 1556640

Ion Ratio Lower Upper

244 100

212 8.7 7.9 11.9

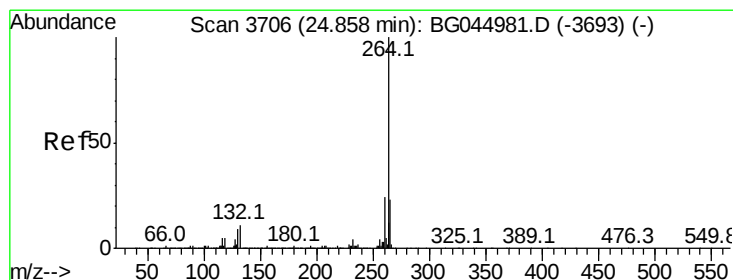
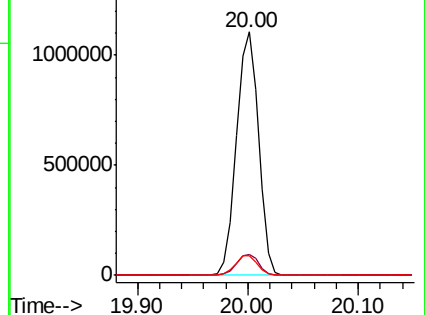
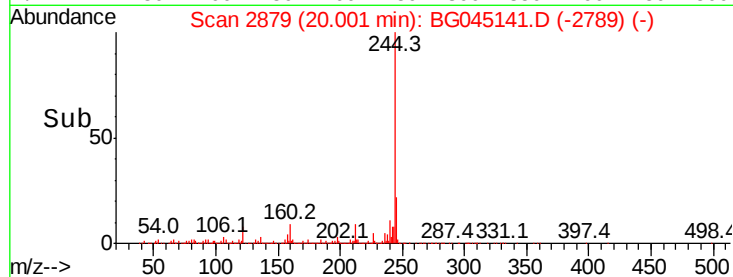
122 8.2 7.7 11.5



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: 24.83 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BG045141.D

Acq: 23 Apr 2020 14:32

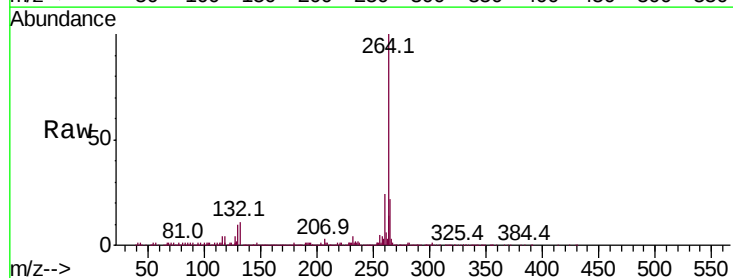
Tgt Ion:264 Resp: 554497

Ion Ratio Lower Upper

264 100

260 23.5 19.2 28.8

265 22.3 19.0 28.4



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

