

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021319\  
 Data File : BG039504.D  
 Acq On : 14 Feb 2019 1:16  
 Operator : JU/SJ  
 Sample : K1451-02  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HOSPITAL-BOX-CULVERT-TP

Quant Time: Feb 14 03:17:37 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG012919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 29 15:41:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.17  | 152  | 57757    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.99 | 136  | 280117   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.80 | 164  | 187880   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.54 | 188  | 405343   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 21.83 | 240  | 394119   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.21 | 264  | 415210   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.71  | 112  | 193441   | 57.32  | ng    | 0.00     |
| 7) Phenol-d6                | 7.32  | 99   | 187167   | 37.68  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.35  | 82   | 542026   | 120.88 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.28 | 330  | 227448   | 112.42 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.42 | 172  | 1324987  | 101.17 | ng    | -0.02    |
| 79) Terphenyl-d14           | 20.14 | 244  | 1467740  | 78.83  | ng    | -0.02    |

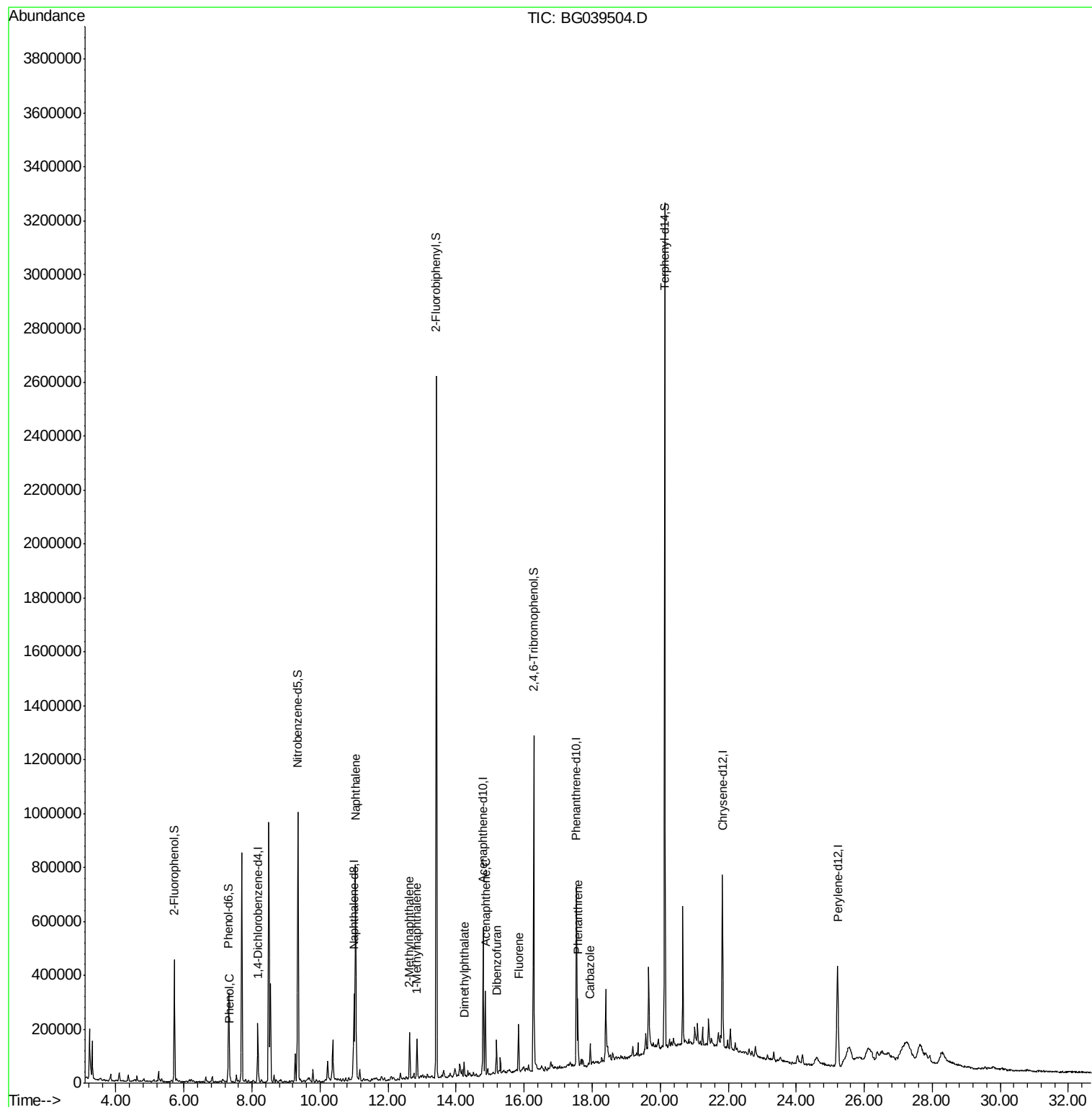
| Target Compounds        | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|-------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol              | 7.35  | 94   | 16737    | 3.232  | ng    | 94     |
| 31) Naphthalene         | 11.05 | 128  | 633987   | 45.622 | ng    | 99     |
| 37) 2-Methylnaphthalene | 12.63 | 142  | 75416    | 7.327  | ng    | 95     |
| 38) 1-Methylnaphthalene | 12.85 | 142  | 64272    | 6.478  | ng    | # 93   |
| 50) Dimethylphthalate   | 14.24 | 163  | 33664    | 2.219  | ng    | # 91   |
| 52) Acenaphthene        | 14.86 | 154  | 118777   | 10.312 | ng    | 100    |
| 55) Dibenzofuran        | 15.19 | 168  | 82643    | 4.475  | ng    | 98     |
| 58) Fluorene            | 15.84 | 166  | 83700    | 6.080  | ng    | 99     |
| 71) Phenanthrene        | 17.58 | 178  | 159230   | 7.590  | ng    | 97     |
| 73) Carbazole           | 17.94 | 167  | 55913    | 2.711  | ng    | 94     |

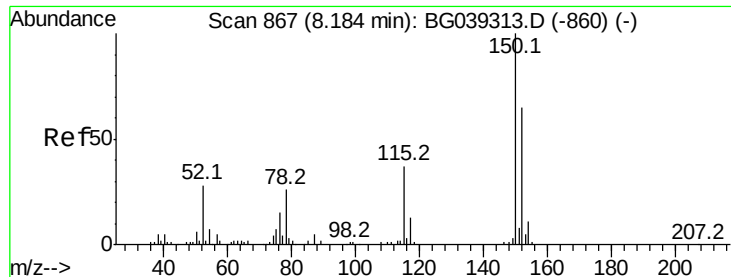
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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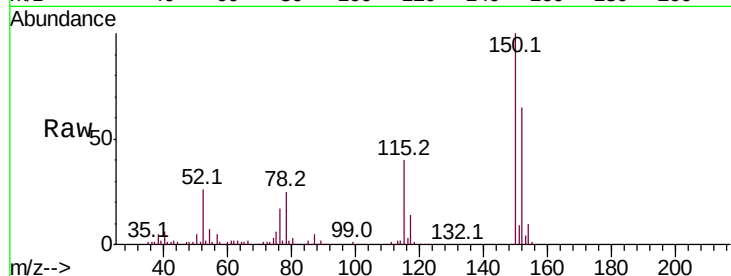


#1

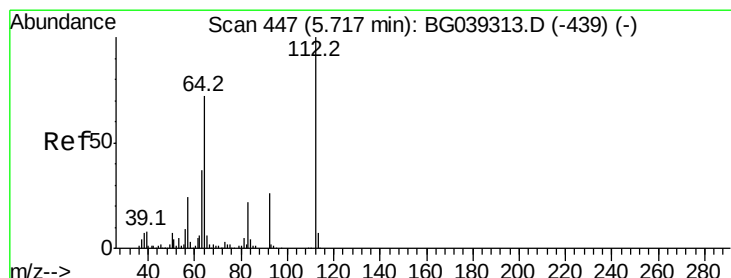
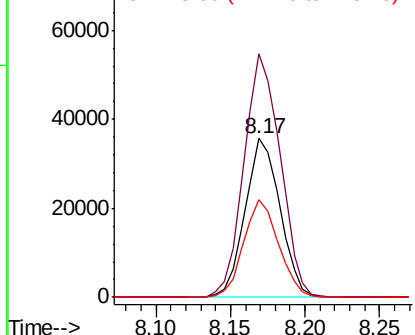
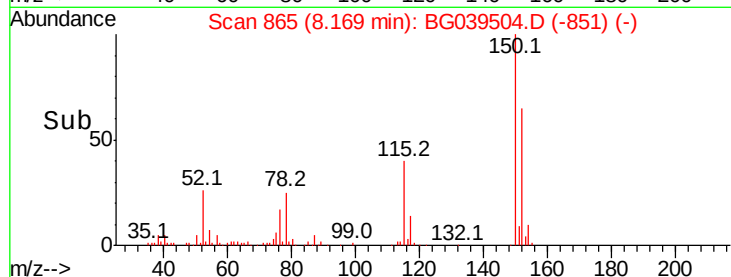
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.17 min Scan# 865  
Delta R.T. -0.02 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

Instrument :  
BNA\_G  
ClientSampleId :  
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Tot Ion:152 Resp: 57757  
Ion Ratio Lower Upper  
152 100  
150 153.6 123.7 185.5  
115 61.5 45.9 68.9



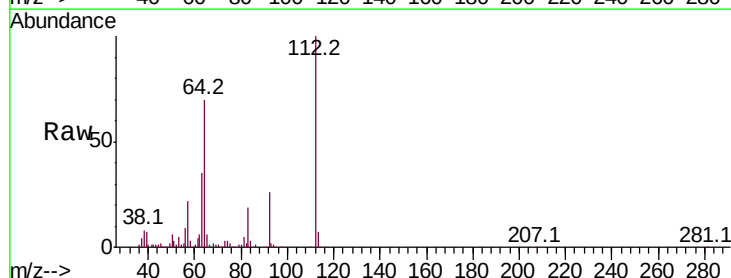
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



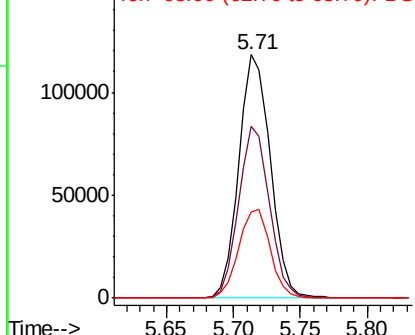
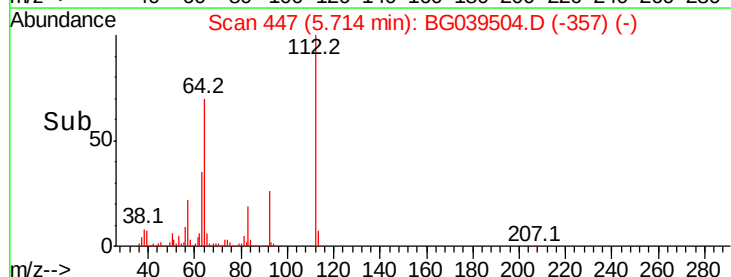
#5

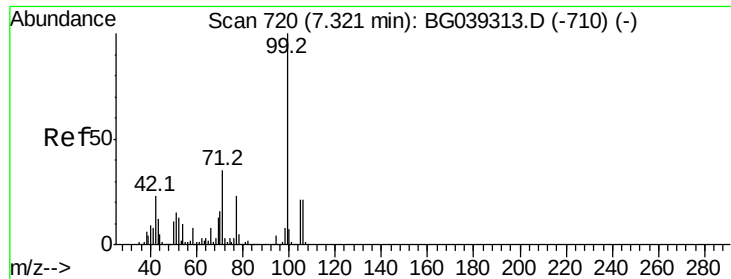
2-Fluorophenol  
Concen: 57.322 ng  
RT: 5.71 min Scan# 447  
Delta R.T. -0.00 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

Tgt Ion:112 Resp: 193441  
Ion Ratio Lower Upper  
112 100  
64 70.5 57.8 86.8  
63 35.4 29.8 44.6



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG  
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 37.679 ng

RT: 7.32 min Scan# 720

Delta R.T. -0.00 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

Instrument :

BNA\_G

ClientSampleId :

HOSPITAL-BOX-CULVERT-TP

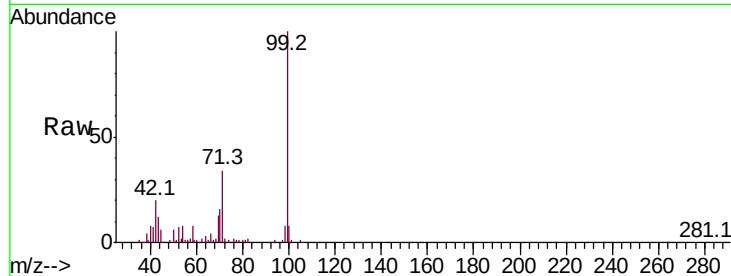
Tot Ion: 99 Resp: 187167

Ion Ratio Lower Upper

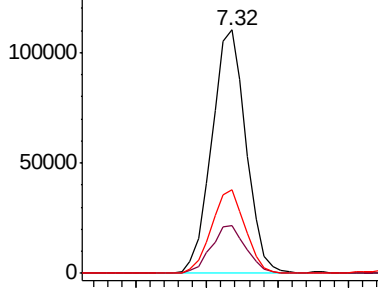
99 100

42 19.6 18.2 27.2

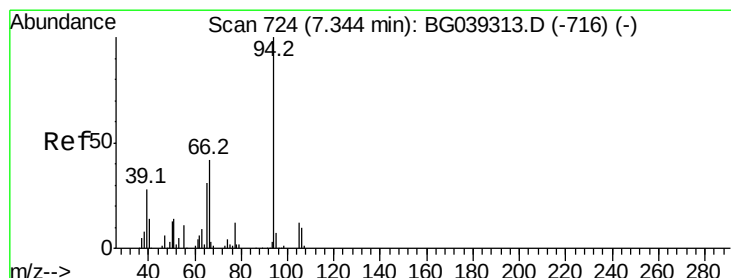
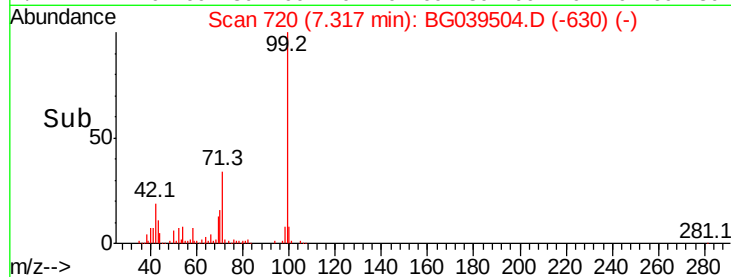
71 34.3 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BGC  
150000  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



Time-->



#10

Phenol

Concen: 3.232 ng

RT: 7.35 min Scan# 725

Delta R.T. 0.00 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

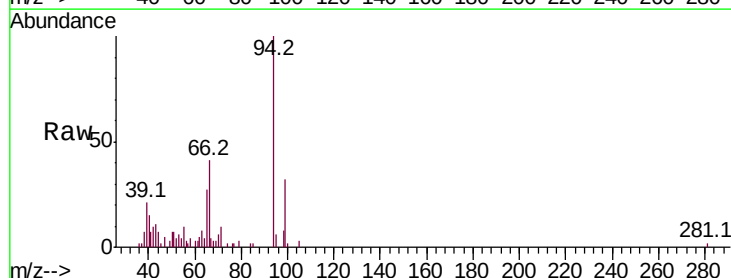
Tgt Ion: 94 Resp: 16737

Ion Ratio Lower Upper

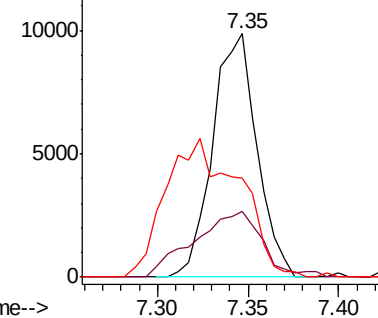
94 100

65 27.1 11.7 51.7

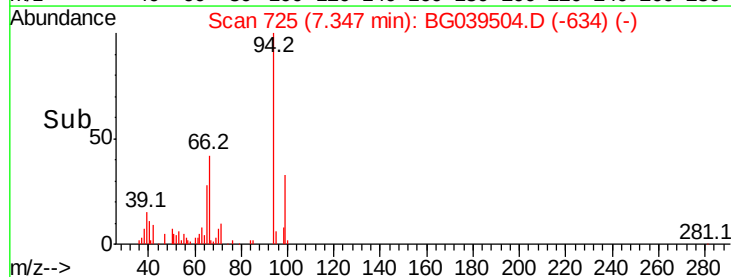
66 40.6 23.7 63.7

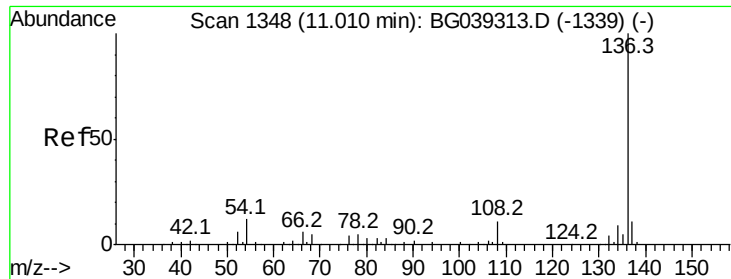


Abundance Ion 94.00 (93.70 to 94.70): BGC  
10000  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC



Time-->

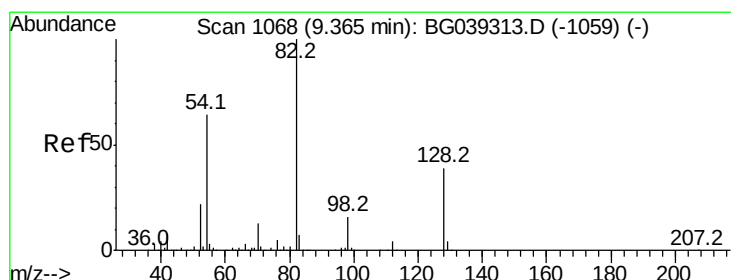
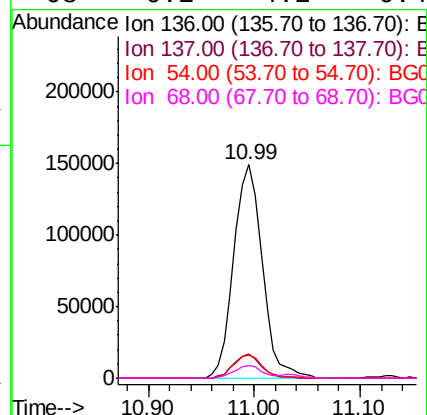
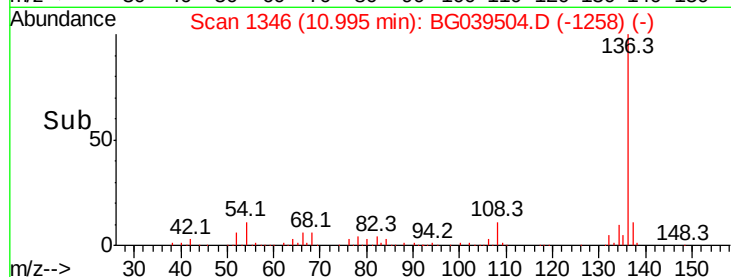
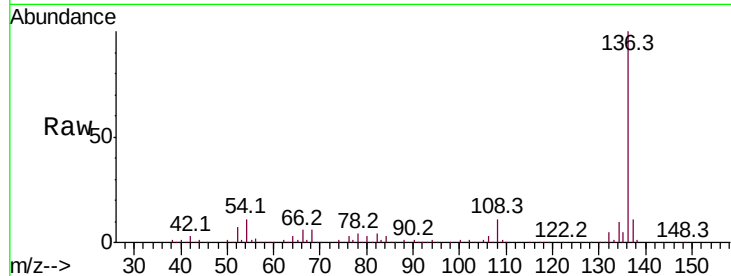




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1346  
Delta R.T. -0.02 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

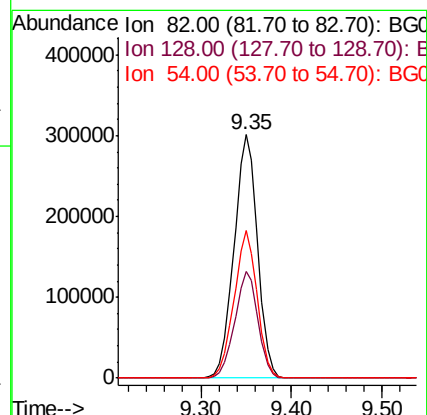
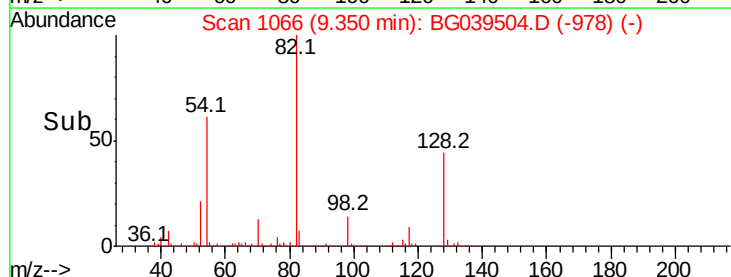
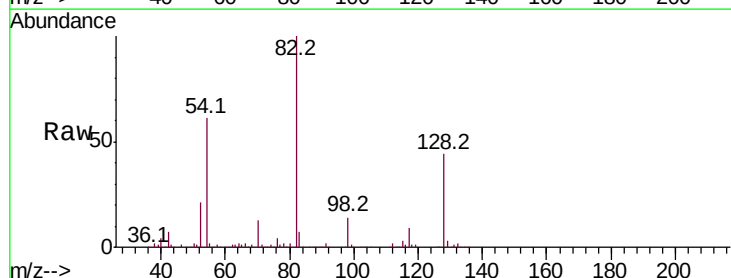
Instrument :  
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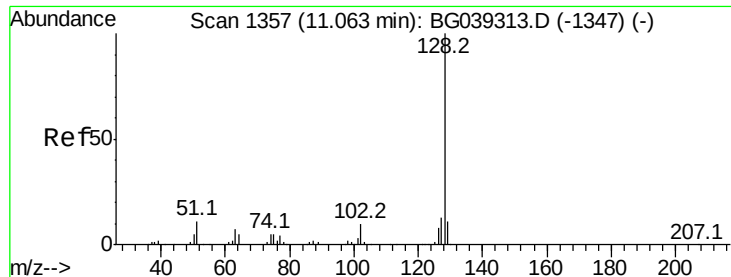
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 280117   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.4  | 9.1 13.7 |
| 54          | 10.9  | 9.4 14.2 |
| 68          | 6.2   | 4.2 6.4  |



#23  
Nitrobenzene-d5  
Concen: 120.882 ng  
RT: 9.35 min Scan# 1066  
Delta R.T. -0.01 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 542026    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 43.8  | 31.3 46.9 |
| 54          | 60.8  | 50.9 76.3 |

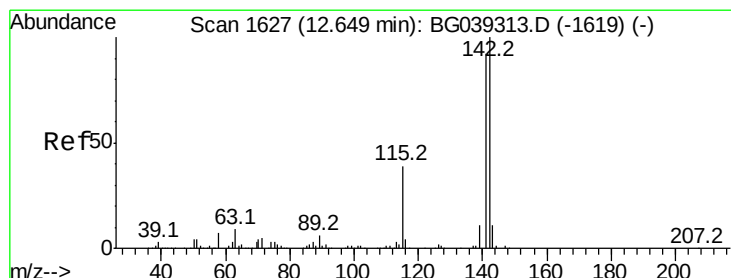
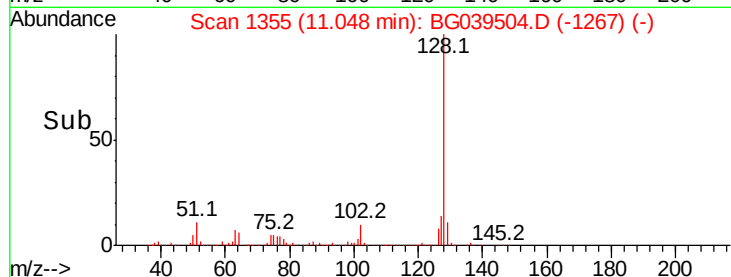
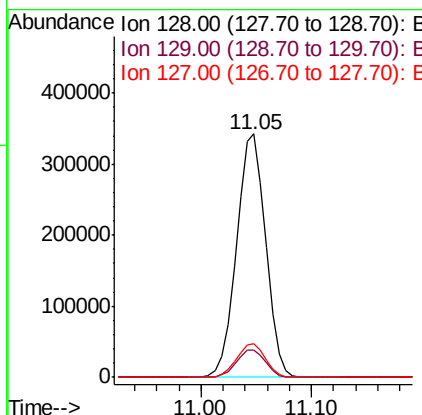
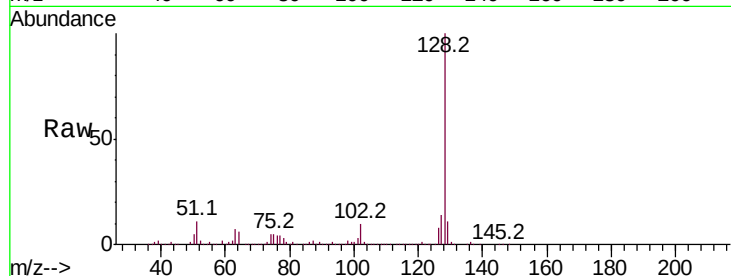




#31  
Naphthalene  
Concen: 45.622 ng  
RT: 11.05 min Scan# 1355  
Delta R.T. -0.02 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

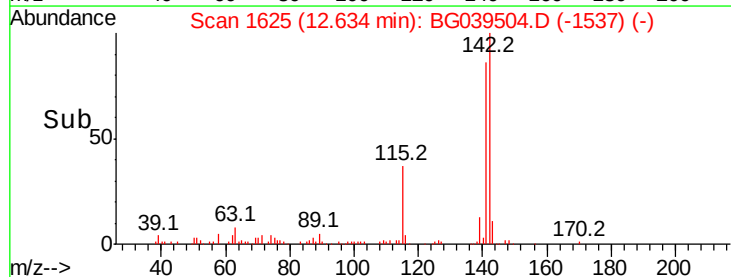
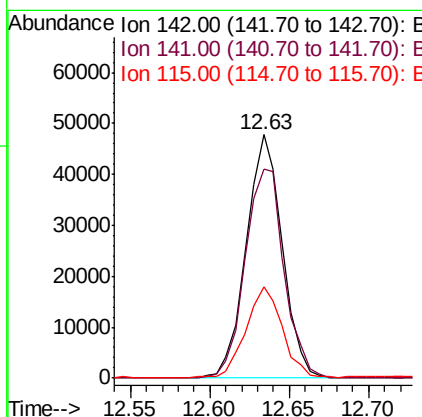
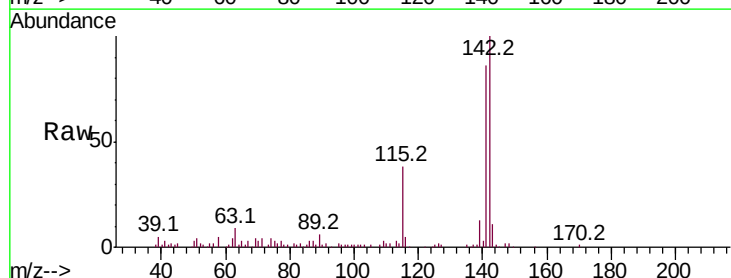
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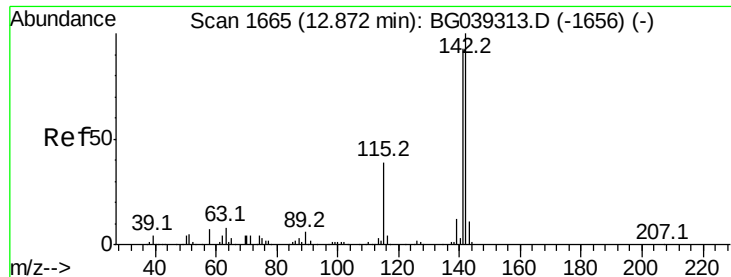
Tot Ion:128 Resp: 633987  
Ion Ratio Lower Upper  
128 100  
129 11.1 8.7 13.1  
127 13.8 10.8 16.2



#37  
2-Methylnaphthalene  
Concen: 7.327 ng  
RT: 12.63 min Scan# 1625  
Delta R.T. -0.02 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

Tgt Ion:142 Resp: 75416  
Ion Ratio Lower Upper  
142 100  
141 85.9 73.5 110.3  
115 37.6 30.8 46.2

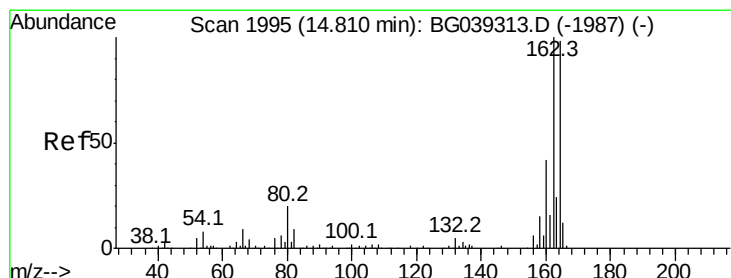
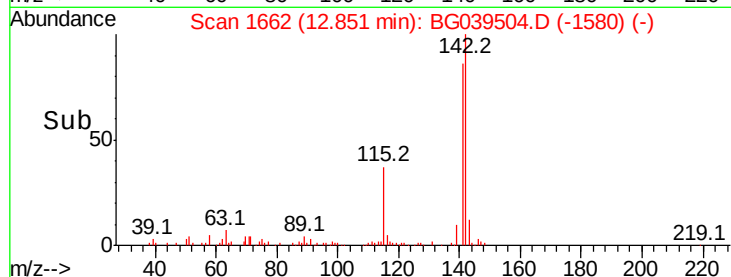
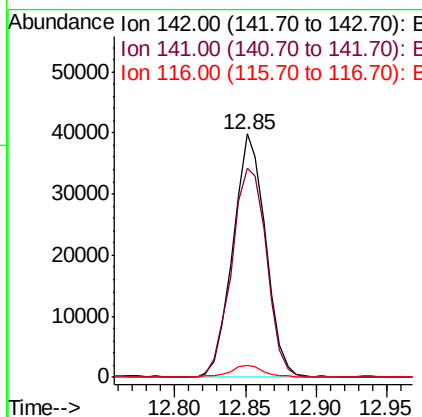
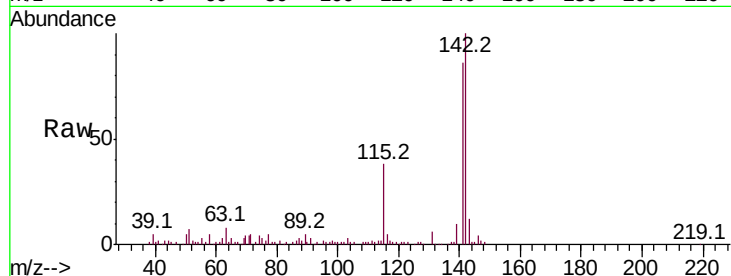




#38  
1-Methylnaphthalene  
Concen: 6.478 ng  
RT: 12.85 min Scan# 1662  
Delta R.T. -0.02 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

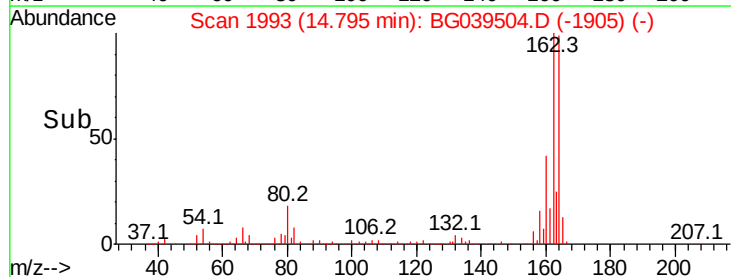
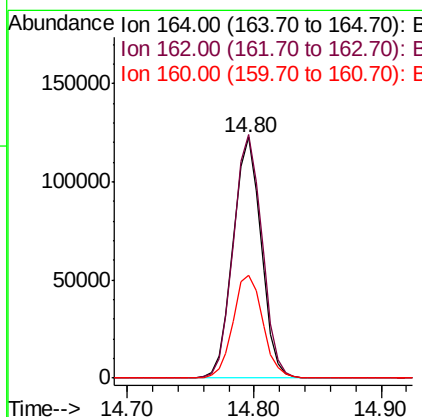
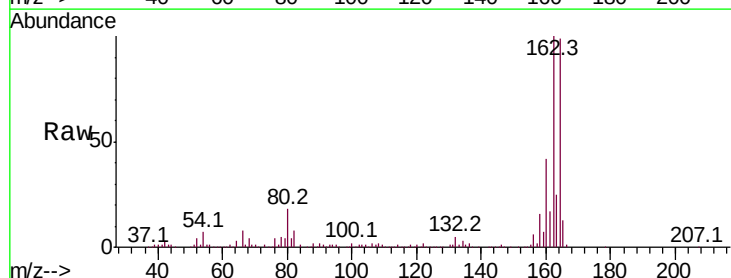
Instrument :  
BNA\_G  
ClientSampleId :  
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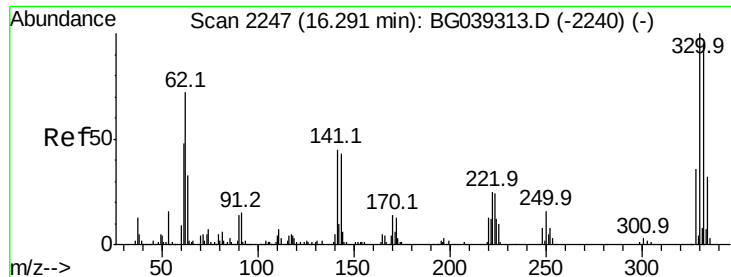
Tot Ion:142 Resp: 64272  
Ion Ratio Lower Upper  
142 100  
141 85.6 74.2 111.4  
116 4.9 3.0 4.6#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.80 min Scan# 1993  
Delta R.T. -0.02 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

Tgt Ion:164 Resp: 187880  
Ion Ratio Lower Upper  
164 100  
162 101.0 81.6 122.4  
160 42.7 34.2 51.2





#42

2,4,6-Tribromophenol

Concen: 112.423 ng

RT: 16.28 min Scan# 2246

Delta R.T. -0.01 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

Instrument :

BNA\_G

ClientSampleId :

HOSPITAL-BOX-CULVERT-TP

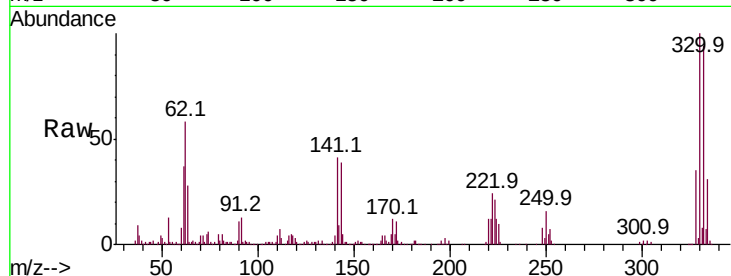
Tot Ion:330 Resp: 227448

Ion Ratio Lower Upper

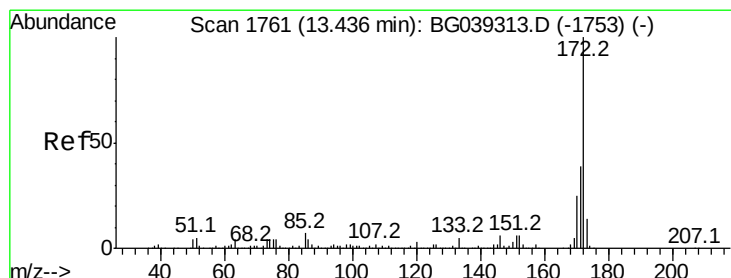
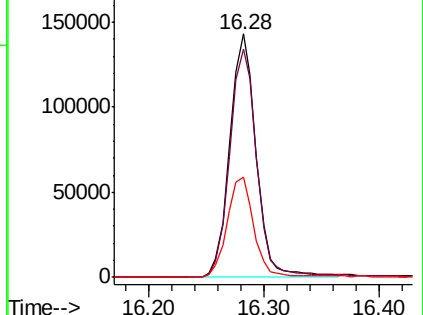
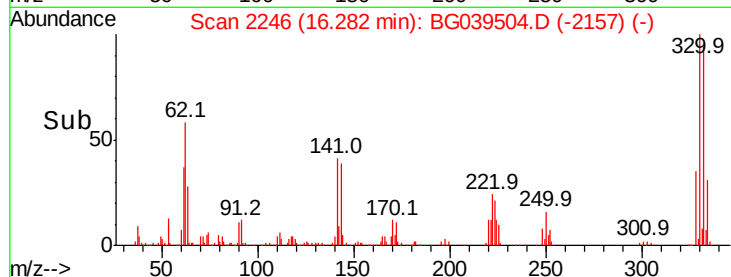
330 100

332 96.0 75.7 113.5

141 41.1 35.6 53.4



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: 101.169 ng

RT: 13.42 min Scan# 1759

Delta R.T. -0.02 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

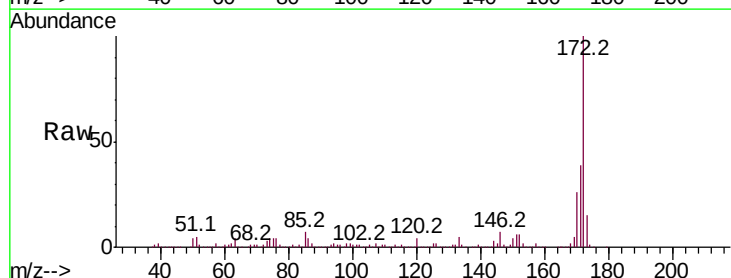
Tgt Ion:172 Resp: 1324987

Ion Ratio Lower Upper

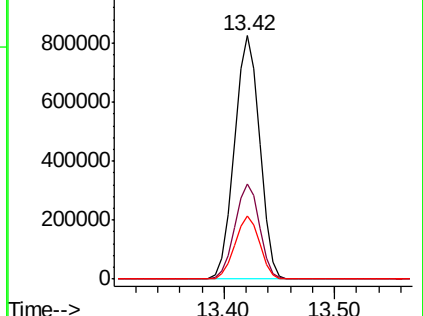
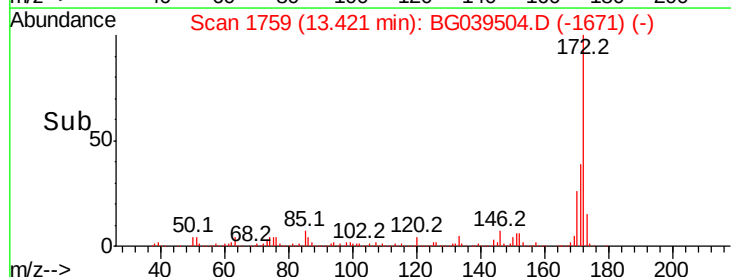
172 100

171 39.0 30.8 46.2

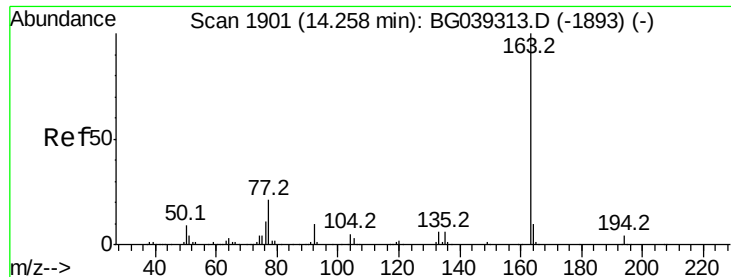
170 26.2 20.2 30.4



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: 2.219 ng

RT: 14.24 min Scan# 1898

Delta R.T. -0.02 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

Instrument :

BNA\_G

ClientSampleId :

HOSPITAL-BOX-CULVERT-TP

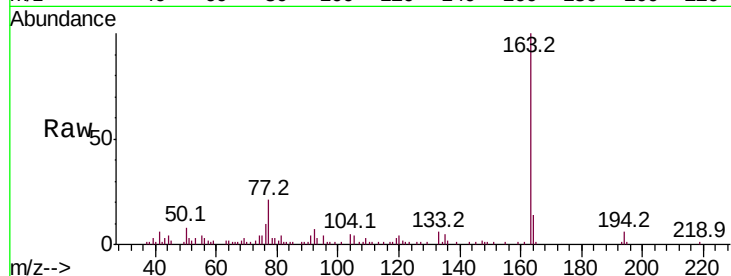
Tot Ion:163 Resp: 33664

Ion Ratio Lower Upper

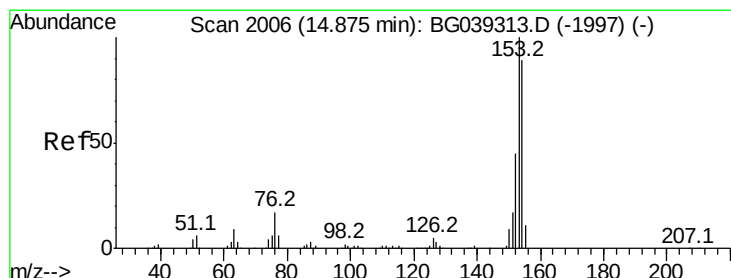
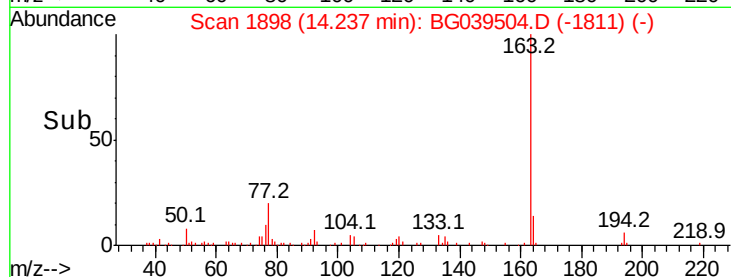
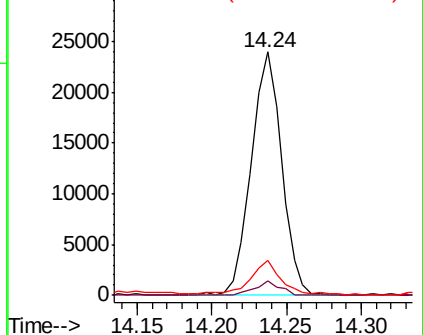
163 100

194 6.0 3.6 5.4#

164 14.3 8.4 12.6#



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



#52

Acenaphthene

Concen: 10.312 ng

RT: 14.86 min Scan# 2004

Delta R.T. -0.02 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

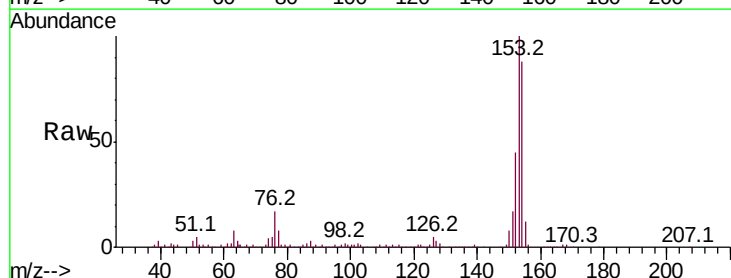
Tgt Ion:154 Resp: 118777

Ion Ratio Lower Upper

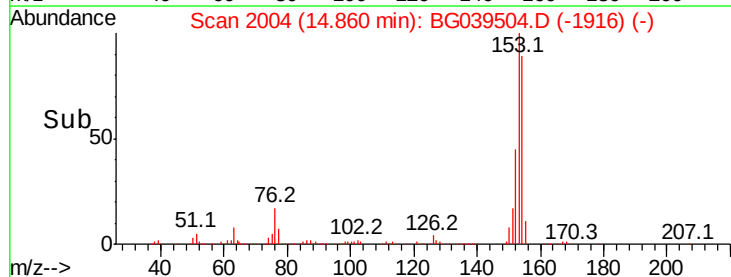
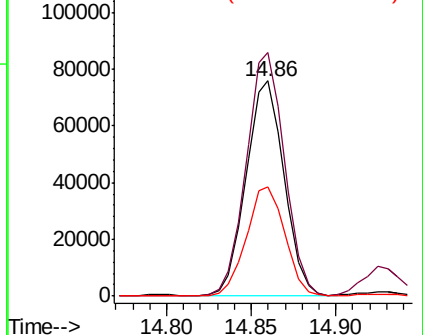
154 100

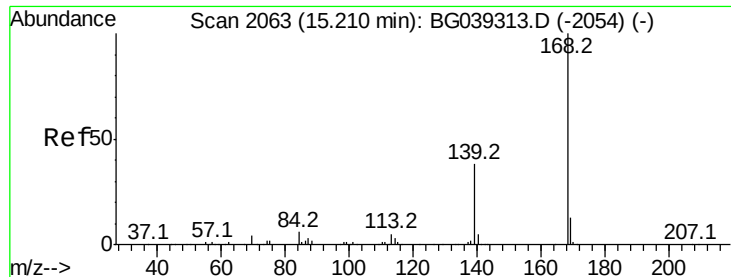
153 113.1 90.1 135.1

152 50.9 40.9 61.3



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

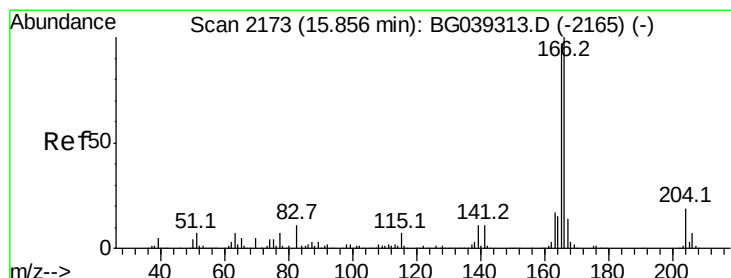
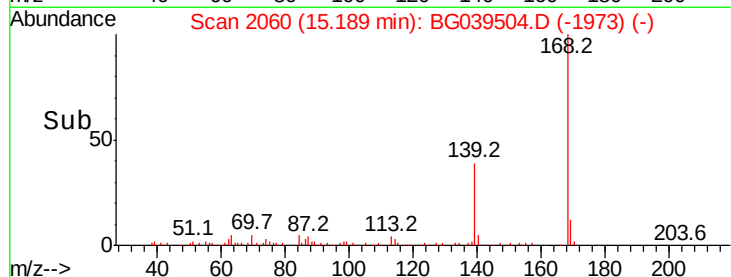
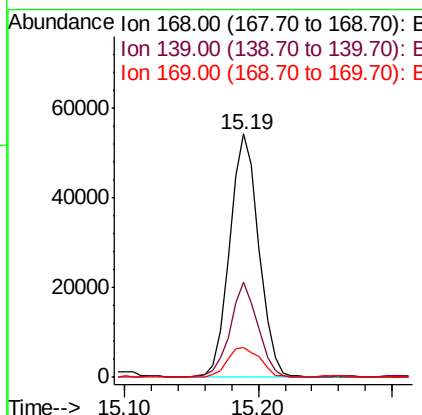
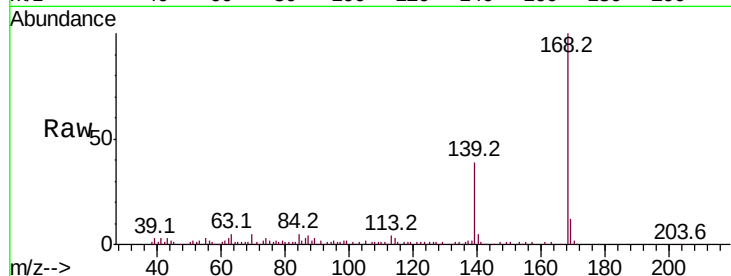




#55  
Dibenzofuran  
Concen: 4.475 ng  
RT: 15.19 min Scan# 2060  
Delta R.T. -0.02 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

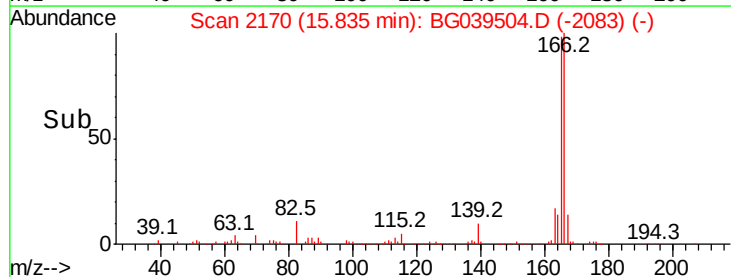
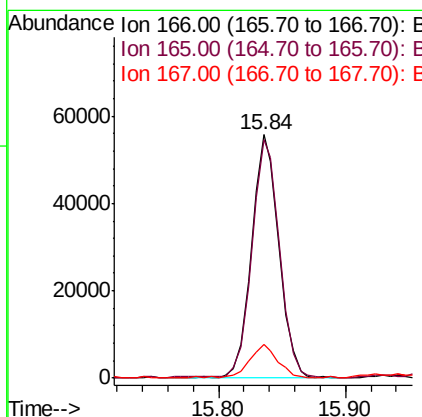
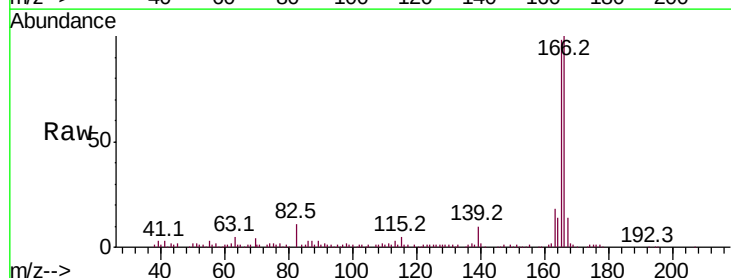
Instrument :  
BNA\_G  
ClientSampleId :  
HOSPITAL-BOX-CULVERT-TP

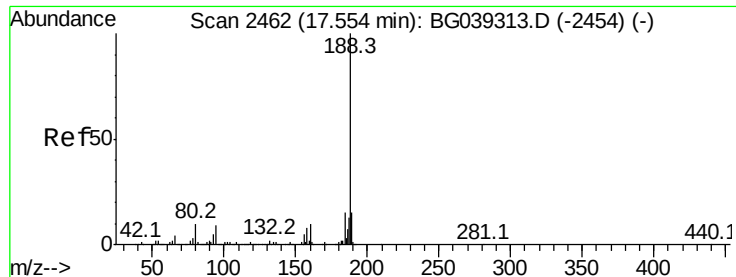
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 38.9  | 30.1  | 45.1  |
| 169     | 12.4  | 10.6  | 16.0  |



#58  
Fluorene  
Concen: 6.080 ng  
RT: 15.84 min Scan# 2170  
Delta R.T. -0.02 min  
Lab File: BG039504.D  
Acq: 14 Feb 2019 1:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.1  | 77.9  | 116.9 |
| 167     | 14.0  | 10.8  | 16.2  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.54 min Scan# 2460

Delta R.T. -0.02 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

Instrument :

BNA\_G

ClientSampleId :

HOSPITAL-BOX-CULVERT-TP

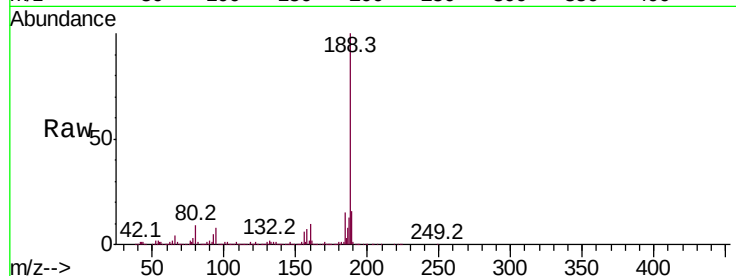
Tot Ion:188 Resp: 405343

Ion Ratio Lower Upper

188 100

94 8.3 6.9 10.3

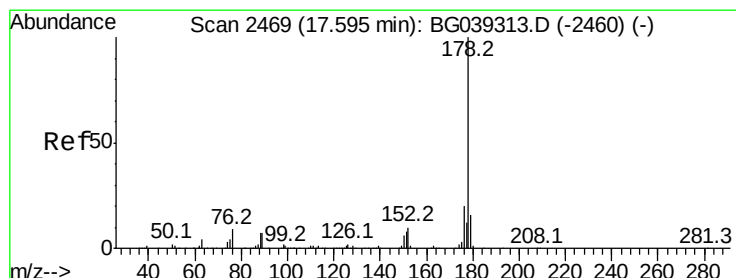
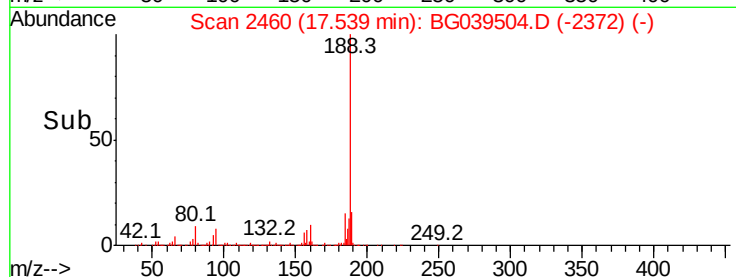
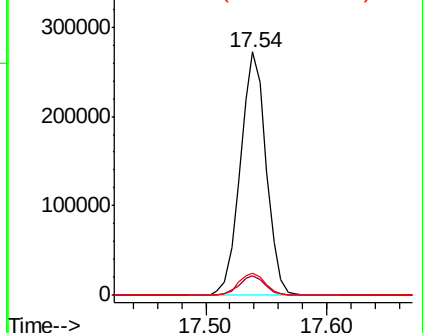
80 9.0 8.1 12.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#71

Phenanthrene

Concen: 7.590 ng

RT: 17.58 min Scan# 2467

Delta R.T. -0.02 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

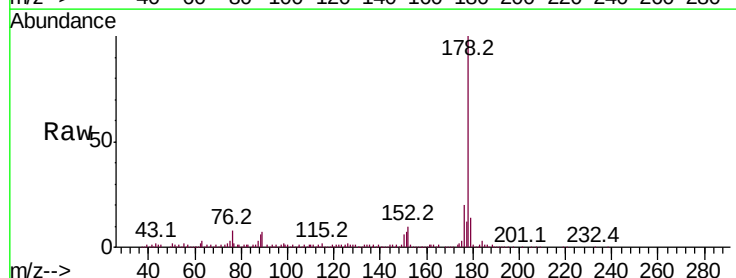
Tgt Ion:178 Resp: 159230

Ion Ratio Lower Upper

178 100

176 20.0 16.2 24.4

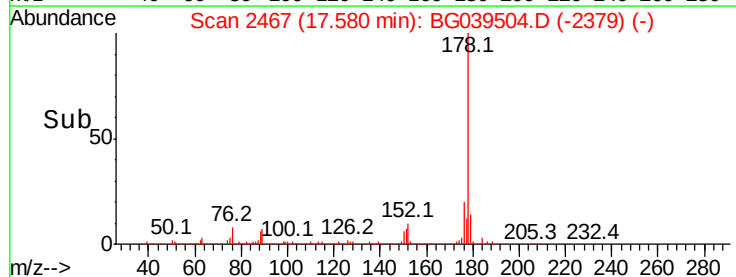
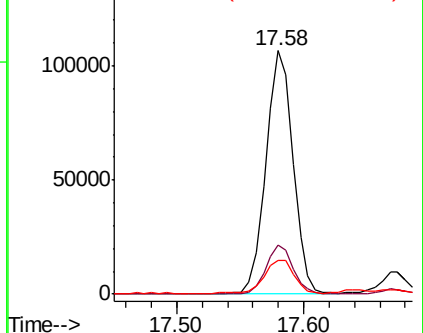
179 13.8 12.6 19.0

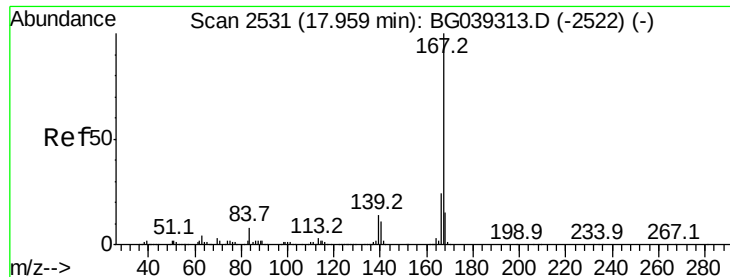


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

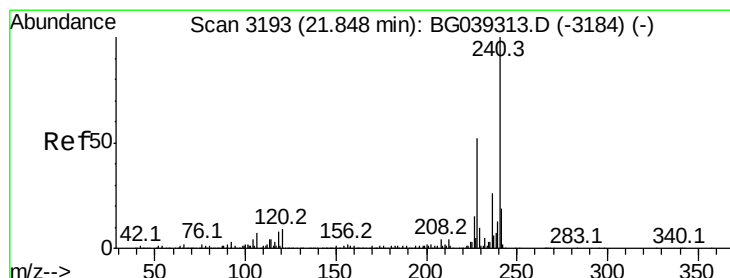
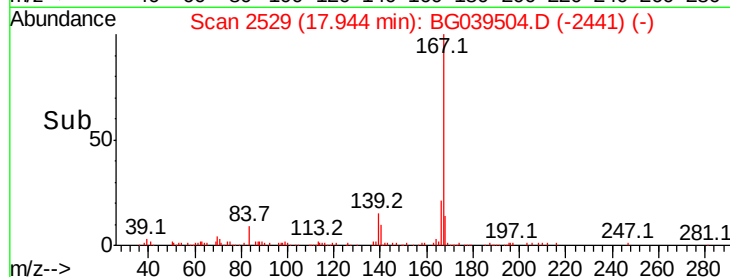
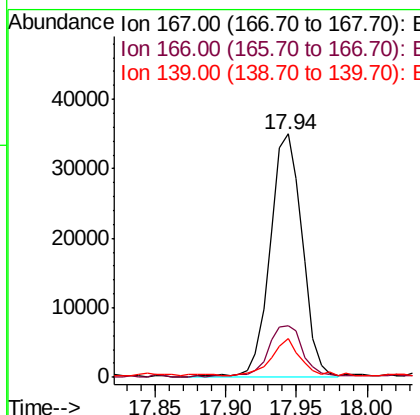
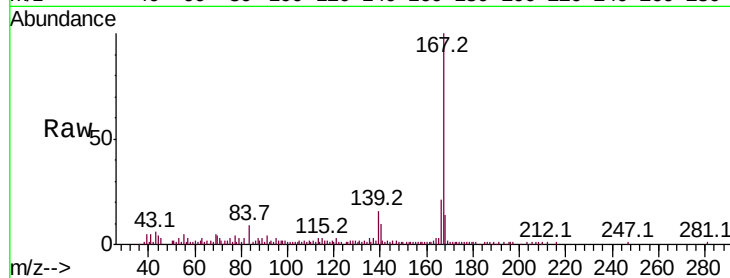




#73  
 Carbazole  
 Concen: 2.711 ng  
 RT: 17.94 min Scan# 2529  
 Delta R.T. -0.02 min  
 Lab File: BG039504.D  
 Acq: 14 Feb 2019 1:16

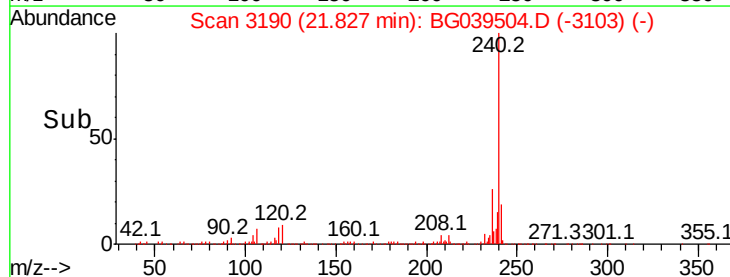
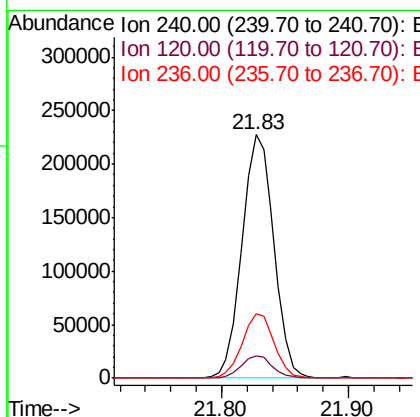
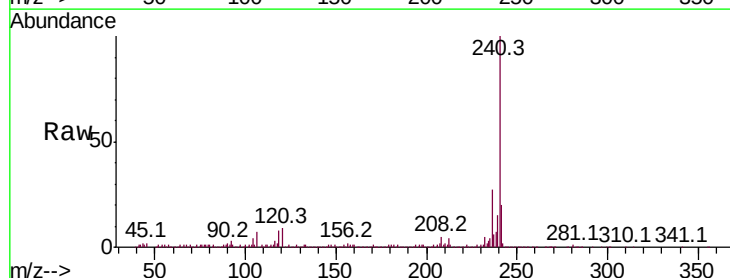
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HOSPITAL-BOX-CULVERT-TP

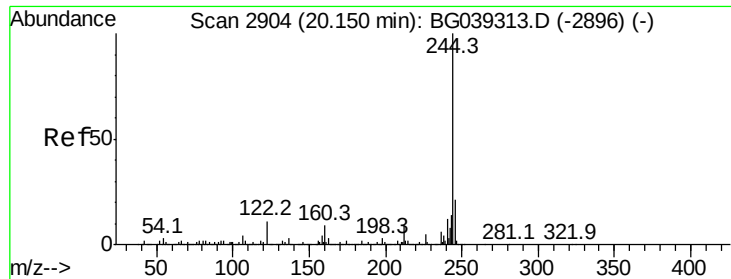
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.3  | 19.4  | 29.2  |
| 139     | 15.8  | 10.8  | 16.2  |



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.83 min Scan# 3190  
 Delta R.T. -0.02 min  
 Lab File: BG039504.D  
 Acq: 14 Feb 2019 1:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.0   | 7.0   | 10.6  |
| 236     | 26.6  | 21.0  | 31.4  |





#79

Terphenyl-d14

Concen: 78.828 ng

RT: 20.14 min Scan# 2902

Delta R.T. -0.02 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

Instrument :

BNA\_G

ClientSampleId :

HOSPITAL-BOX-CULVERT-TP

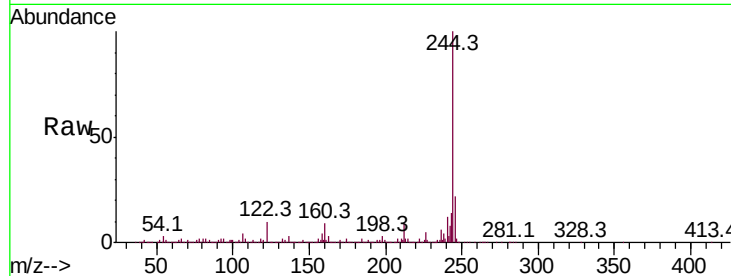
Tot Ion:244 Resp: 1467740

Ion Ratio Lower Upper

244 100

212 9.4 7.3 10.9

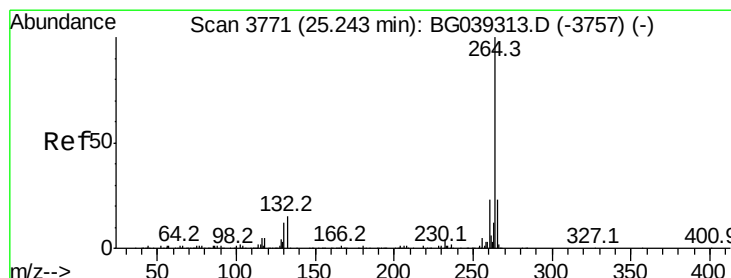
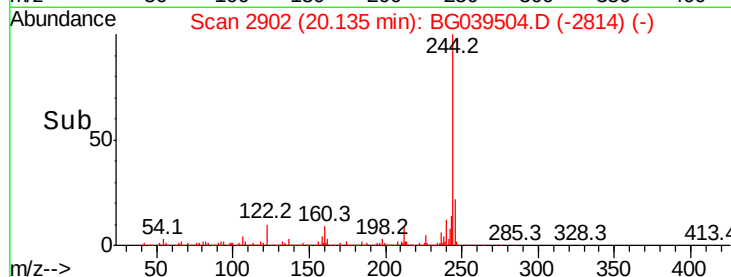
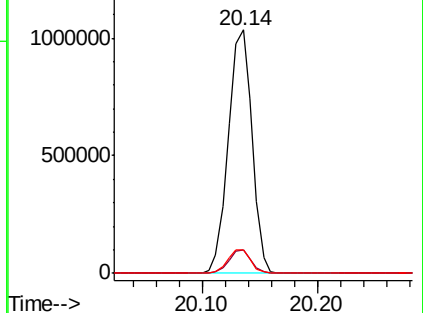
122 9.7 8.4 12.6



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: 25.21 min Scan# 3766

Delta R.T. -0.03 min

Lab File: BG039504.D

Acq: 14 Feb 2019 1:16

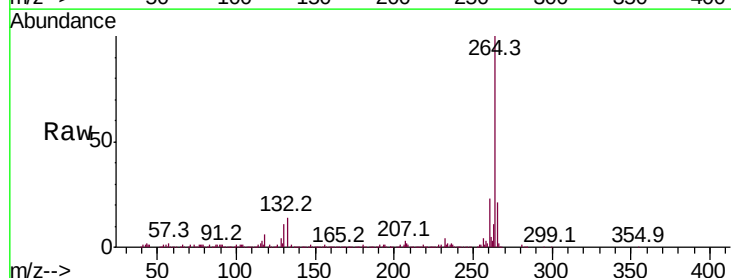
Tgt Ion:264 Resp: 415210

Ion Ratio Lower Upper

264 100

260 23.0 18.2 27.4

265 21.4 18.5 27.7



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

