

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG071320\  
 Data File : BG046025.D  
 Acq On : 13 Jul 2020 16:36  
 Operator : CG/JU  
 Sample : PB130129BL  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB130129BL

Quant Time: Jul 13 18:17:09 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG070620.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 13 10:58:53 2020  
 Response via : Initial Calibration

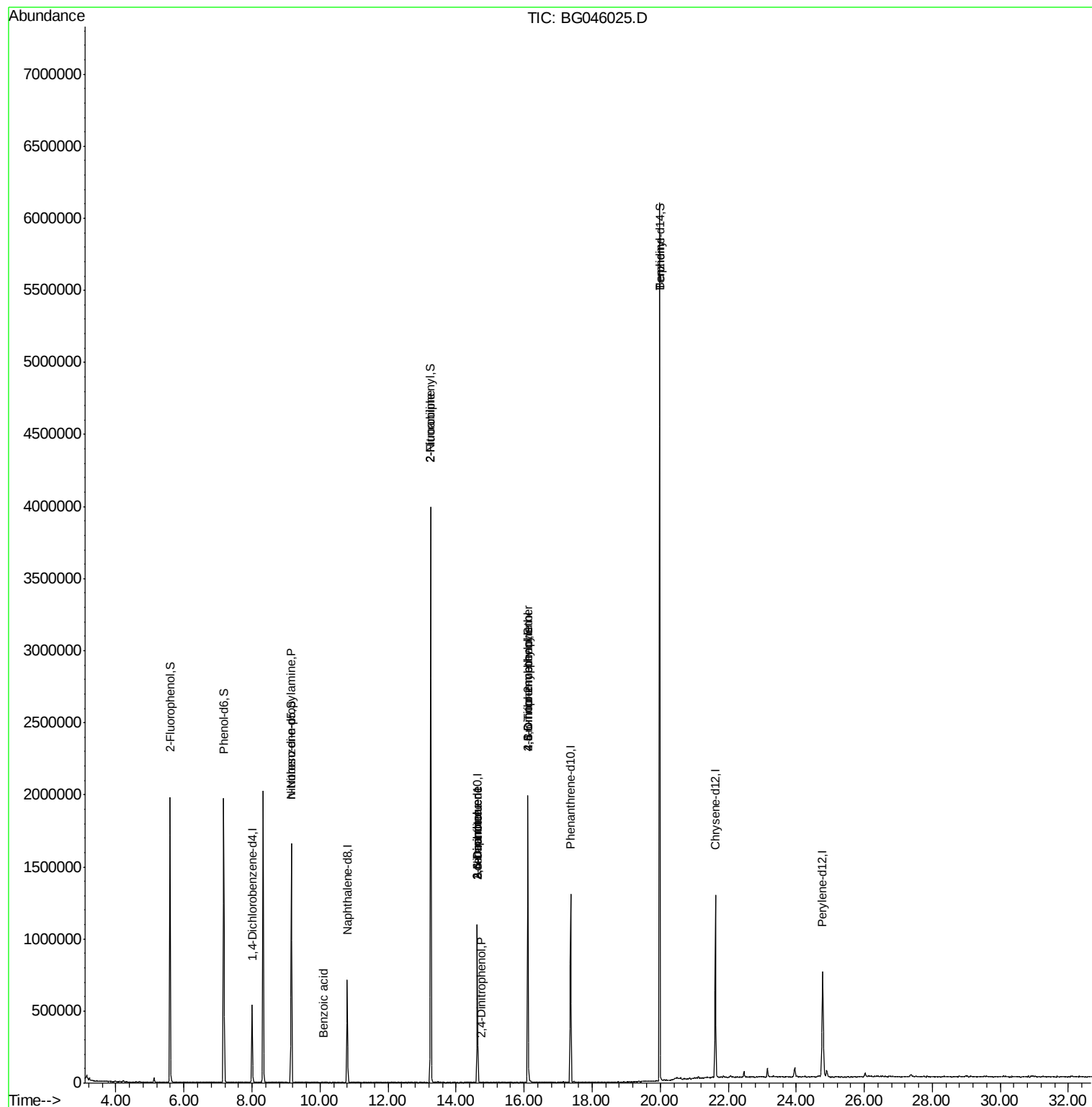
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.00  | 152  | 150193   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.80 | 136  | 593191   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.63 | 164  | 366765   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.37 | 188  | 784116   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.62 | 240  | 690957   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.78 | 264  | 677054   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.59  | 112  | 848986   | 91.67  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.17  | 99   | 1187079  | 89.03  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.16  | 82   | 1060903  | 102.94 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.11 | 330  | 317138   | 93.17  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.26 | 172  | 1950064  | 82.93  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.98 | 244  | 2594900  | 83.58  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 142312   | 15.192 | ng    | # 80     |
| 32) Benzoic acid               | 10.10 | 122  | 89       | 6.521  | ng    | # 28     |
| 48) 2-Nitroaniline             | 13.25 | 65   | 4096     | 3.994  | ng    | # 4      |
| 51) 2,6-Dinitrotoluene         | 14.63 | 165  | 48709    | 12.522 | ng    | # 19     |
| 53) 3-Nitroaniline             | 14.63 | 138  | 65       | 2.993  | ng    | # 1      |
| 54) 2,4-Dinitrophenol          | 14.75 | 184  | 79       | 6.150  | ng    | # 17     |
| 57) 2,4-Dinitrotoluene         | 14.63 | 165  | 48709    | 11.038 | ng    | # 20     |
| 65) 4,6-Dinitro-2-methylphenol | 16.11 | 198  | 1443     | 7.249  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.11 | 248  | 22760    | 2.599  | ng    | # 1      |
| 77) Benzidine                  | 19.98 | 184  | 54550    | 2.761  | ng    | # 91     |

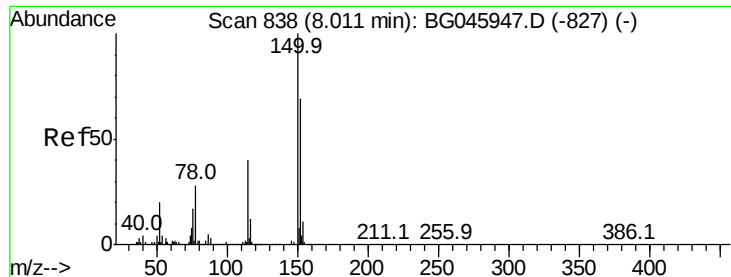
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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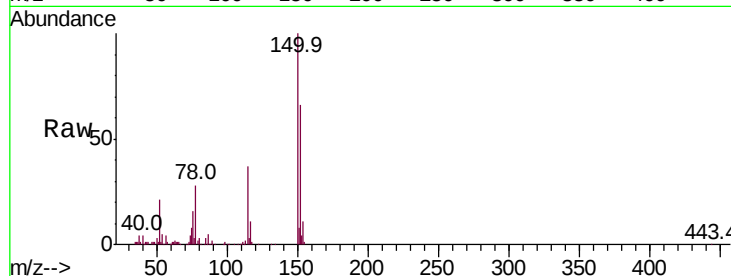


#1

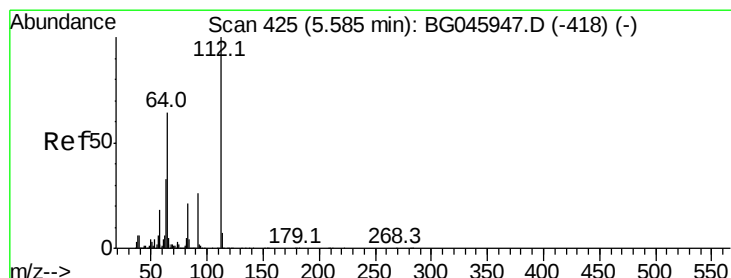
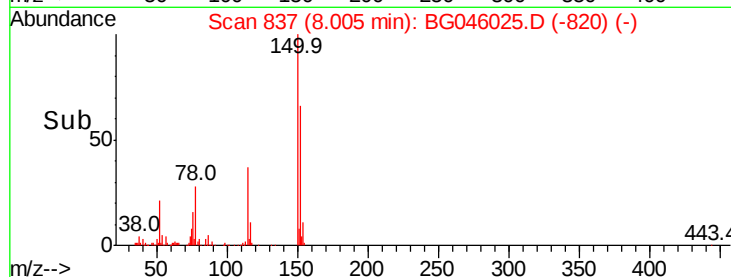
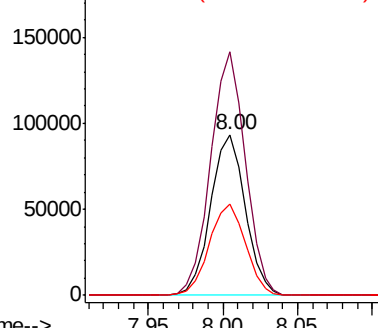
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.00 min Scan# 837  
 Delta R.T. -0.00 min  
 Lab File: BG046025.D  
 Acq: 13 Jul 2020 16:36

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB130129BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.8 | 116.7 | 175.1 |
| 115     | 56.6  | 47.4  | 71.0  |



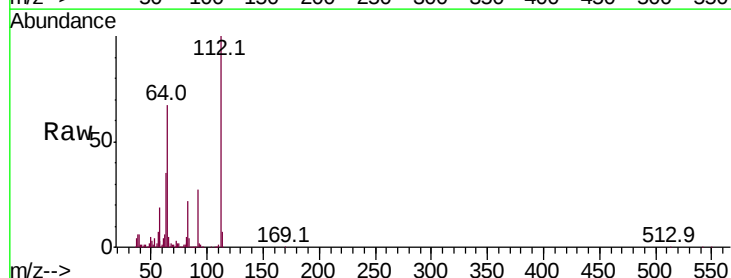
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



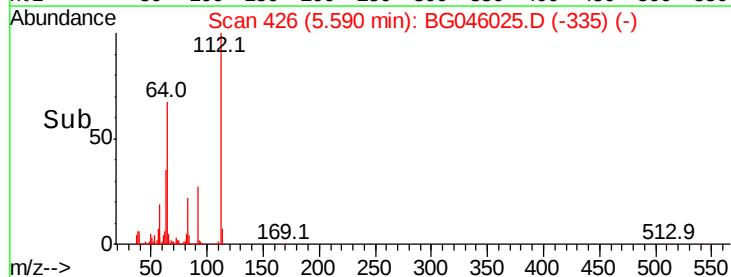
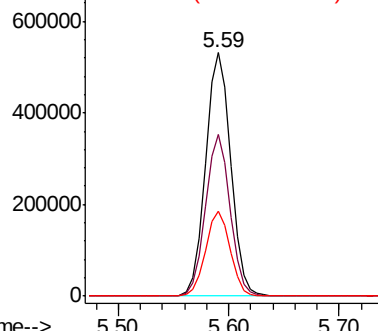
#5

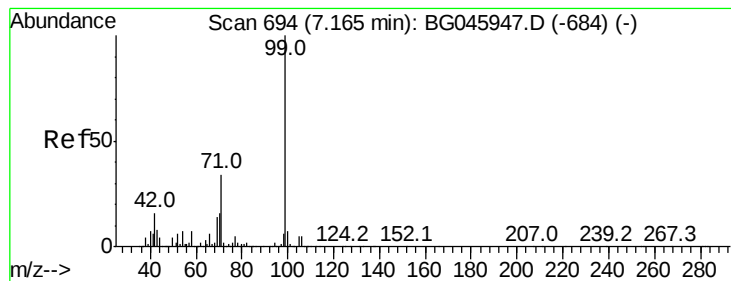
2-Fluorophenol  
 Concen: 91.667 ng  
 RT: 5.59 min Scan# 426  
 Delta R.T. 0.01 min  
 Lab File: BG046025.D  
 Acq: 13 Jul 2020 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.6  | 51.4  | 77.2  |
| 63      | 34.9  | 26.6  | 40.0  |



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: 89.026 ng

RT: 7.17 min Scan# 695

Delta R.T. 0.01 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

Instrument :

BNA\_G

ClientSampleId :

PB130129BL

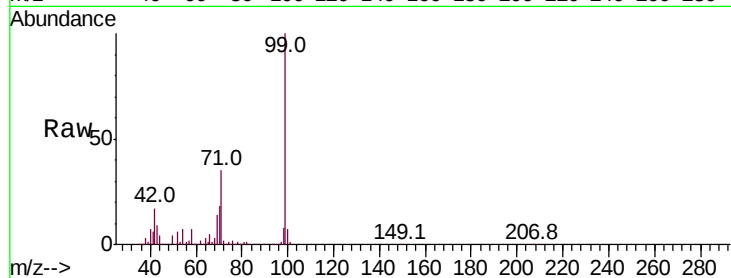
Tot Ion: 99 Resp: 1187079

Ion Ratio Lower Upper

99 100

42 17.2 13.0 19.4

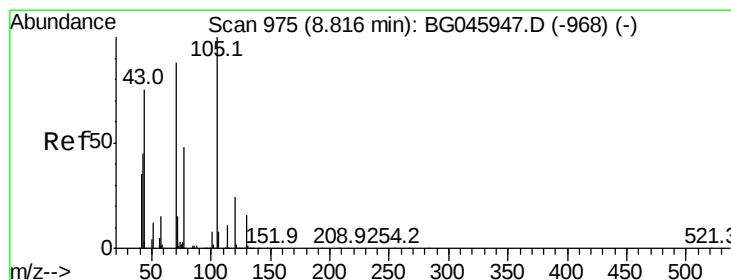
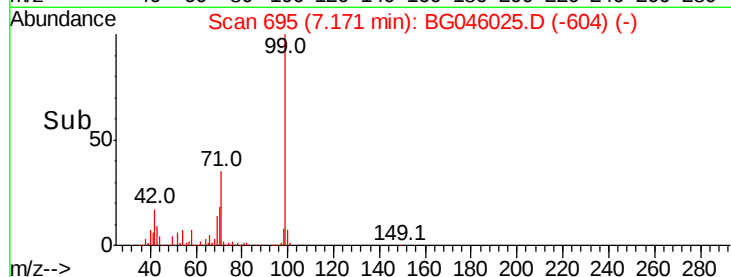
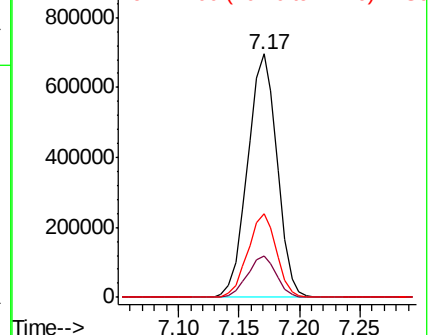
71 34.5 27.5 41.3



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: 15.192 ng

RT: 9.16 min Scan# 1033

Delta R.T. 0.35 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

Tgt Ion: 70 Resp: 142312

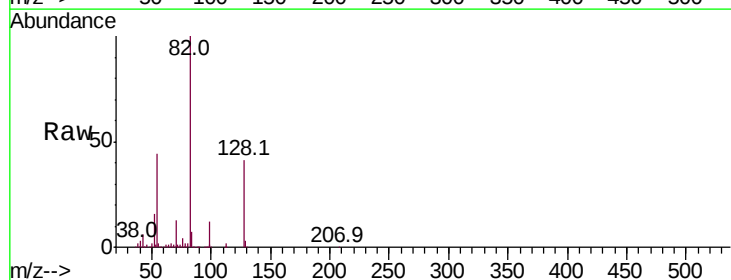
Ion Ratio Lower Upper

70 100

42 42.6 41.4 62.0

101 0.0 7.1 10.7#

130 2.1 14.9 22.3#

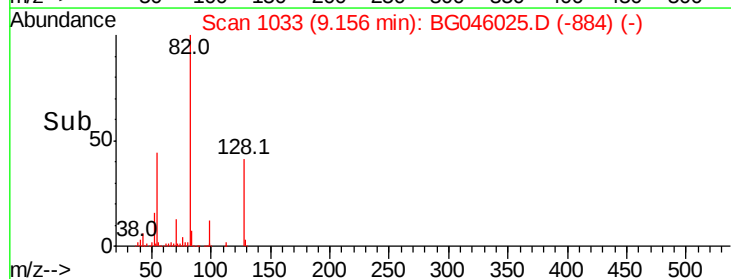
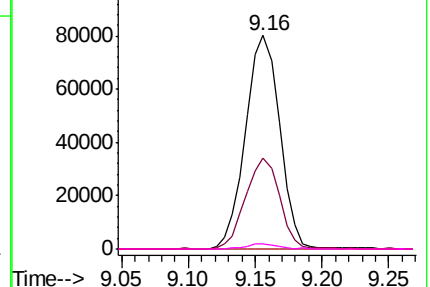


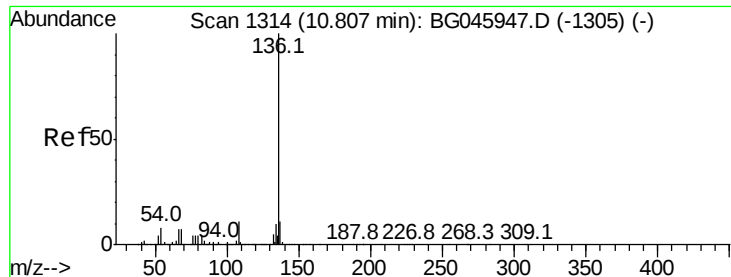
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

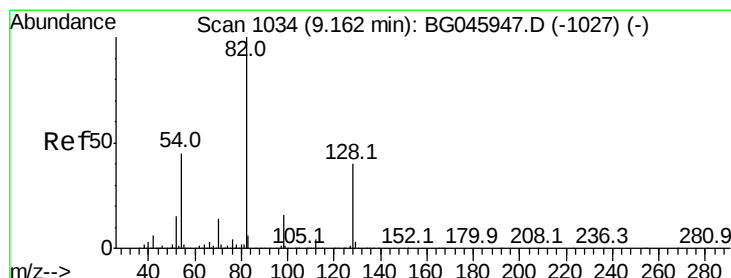
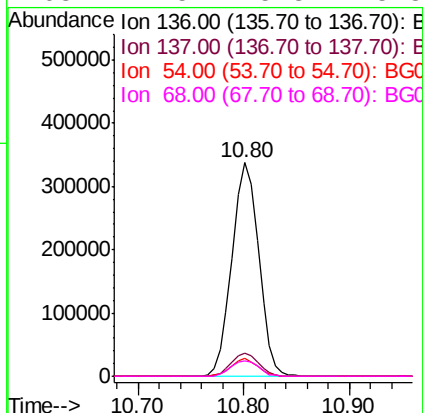
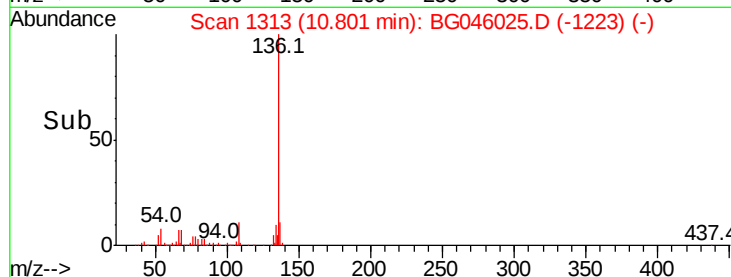
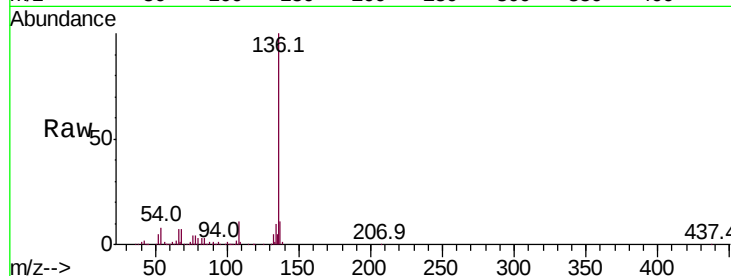




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.80 min Scan# 1313  
Delta R.T. -0.00 min  
Lab File: BG046025.D  
Acq: 13 Jul 2020 16:36

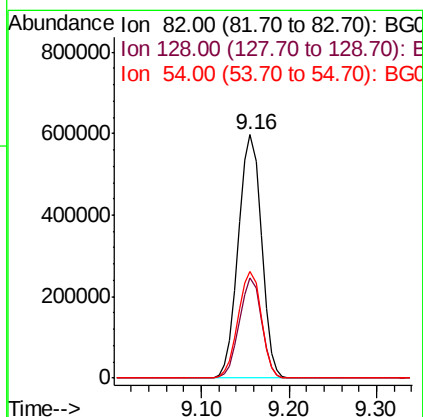
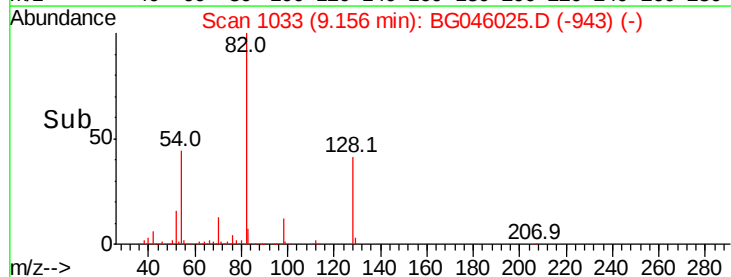
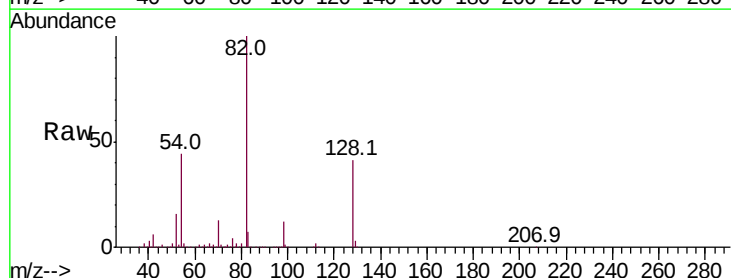
Instrument :  
BNA\_G  
ClientSampleId :  
PB130129BL

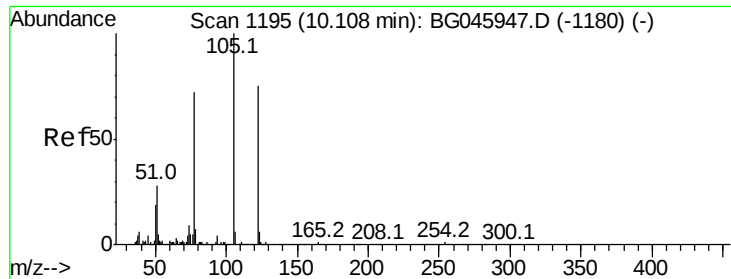
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 593191      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.8  | 9.2 13.8    |
| 54          | 8.4   | 6.2 9.4     |
| 68          | 7.5   | 5.8 8.8     |



#23  
Nitrobenzene-d5  
Concen: 102.940 ng  
RT: 9.16 min Scan# 1033  
Delta R.T. -0.00 min  
Lab File: BG046025.D  
Acq: 13 Jul 2020 16:36

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 1060903     |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 41.4  | 32.2 48.4   |
| 54          | 43.6  | 35.8 53.6   |

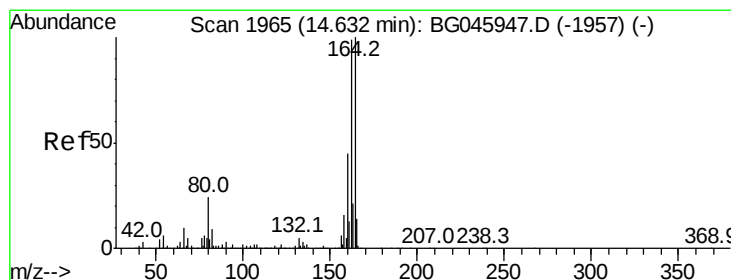
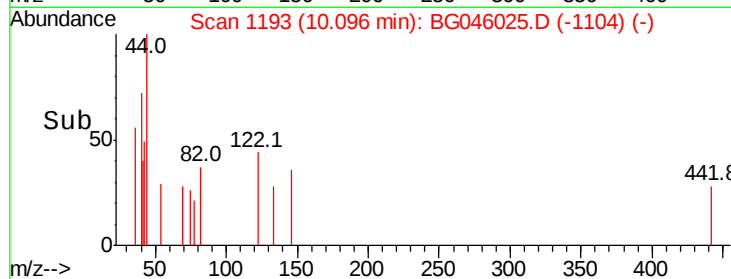
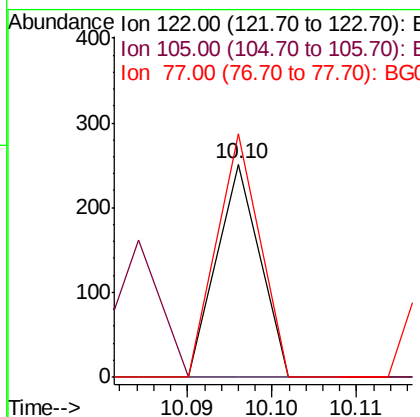
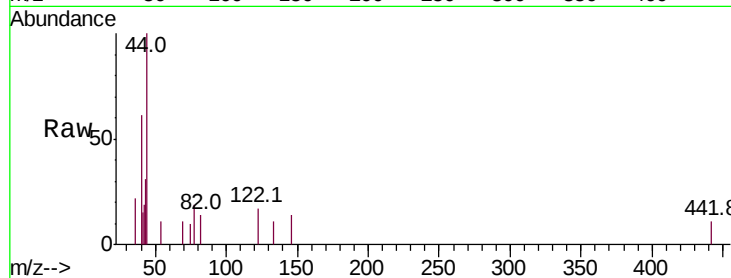




#32  
Benzoic acid  
Concen: 6.521 ng  
RT: 10.10 min Scan# 1193  
Delta R.T. -0.01 min  
Lab File: BG046025.D  
Acq: 13 Jul 2020 16:36

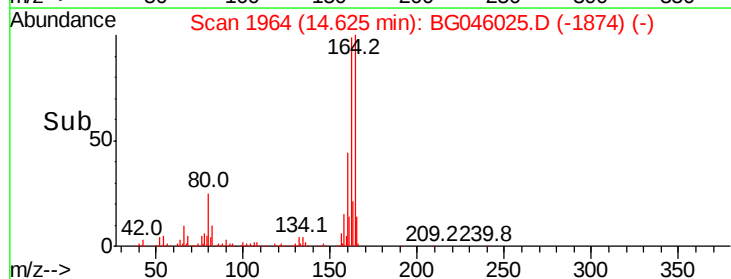
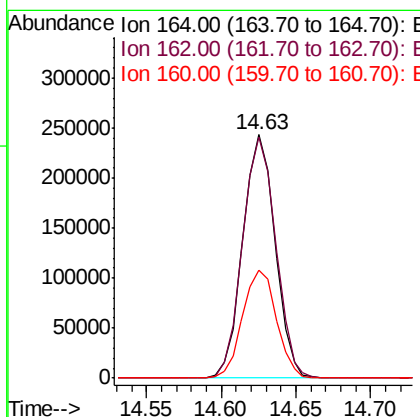
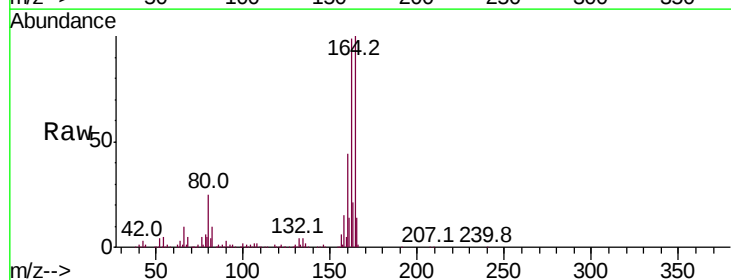
Instrument :  
BNA\_G  
ClientSampleId :  
PB130129BL

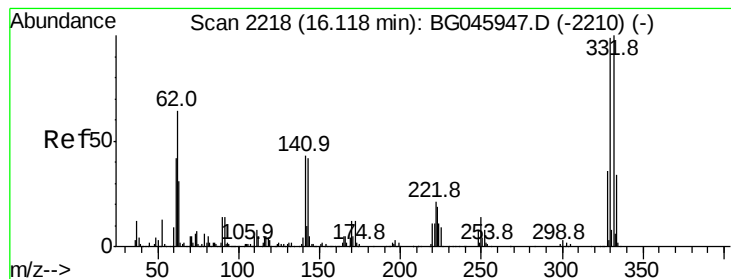
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 110.8 | 150.8# |
| 77      | 114.3 | 76.4  | 116.4  |



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.00 min  
Lab File: BG046025.D  
Acq: 13 Jul 2020 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.8  | 79.3  | 118.9 |
| 160     | 44.4  | 35.7  | 53.5  |





#42

2,4,6-Tribromophenol

Concen: 93.167 ng

RT: 16.11 min Scan# 2217

Delta R.T. -0.00 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

Instrument :

BNA\_G

ClientSampleId :

PB130129BL

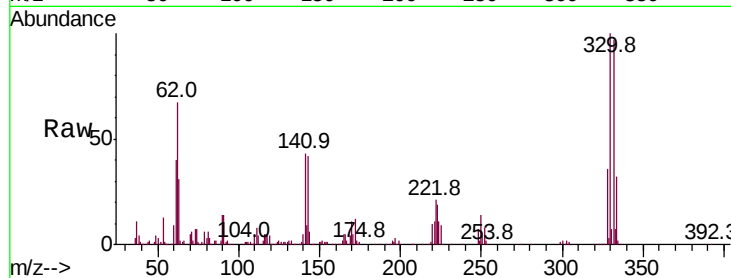
Tot Ion:330 Resp: 317138

Ion Ratio Lower Upper

330 100

332 96.6 78.3 117.5

141 46.1 36.6 54.8

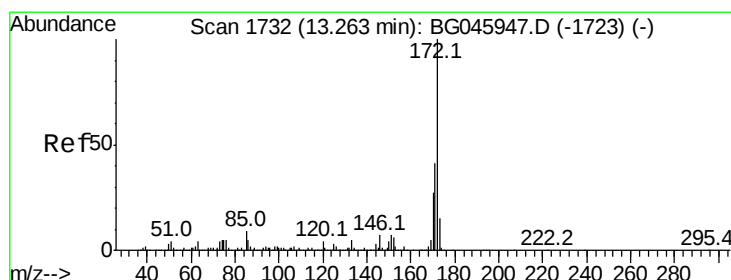
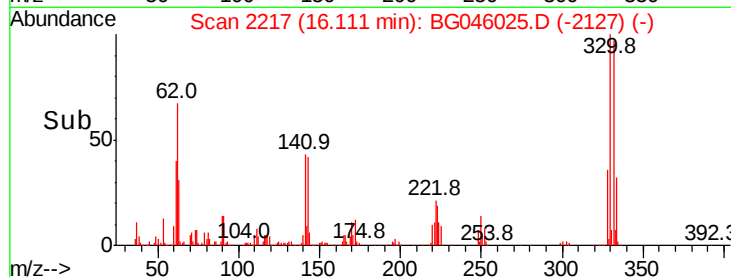
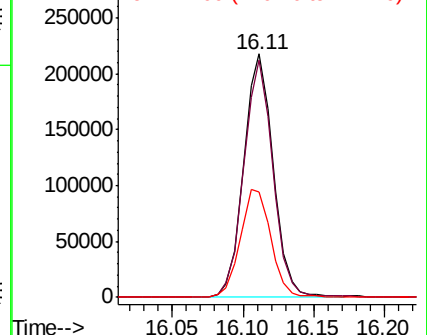


Abundance

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



#45

2-Fluorobiphenyl

Concen: 82.935 ng

RT: 13.26 min Scan# 1731

Delta R.T. -0.00 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

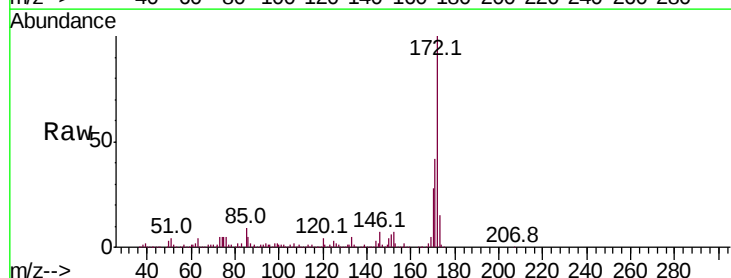
Tgt Ion:172 Resp: 1950064

Ion Ratio Lower Upper

172 100

171 41.6 32.9 49.3

170 27.7 21.8 32.6

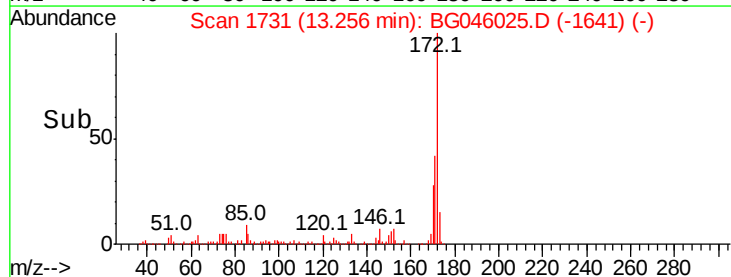
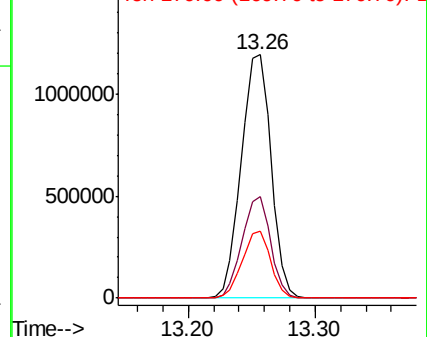


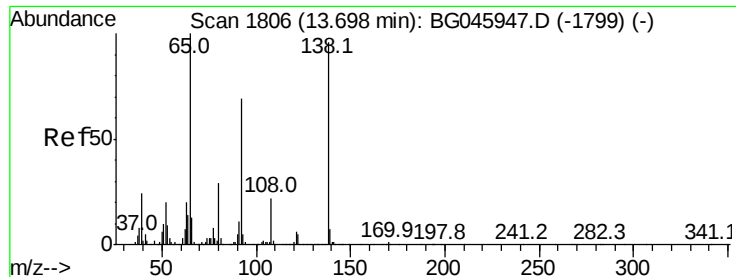
Abundance

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

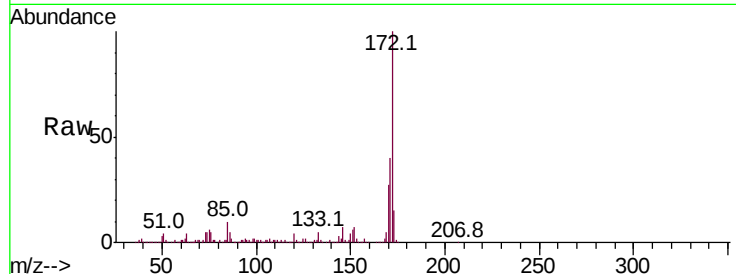




#48  
2-Nitroaniline  
Concen: 3.994 ng  
RT: 13.25 min Scan# 1730  
Delta R.T. -0.45 min  
Lab File: BG046025.D  
Acq: 13 Jul 2020 16:36

Instrument :  
BNA\_G  
ClientSampleId :  
PB130129BL

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 65      | 100   |       |        |
| 92      | 202.6 | 55.4  | 83.0#  |
| 138     | 50.5  | 77.0  | 115.4# |

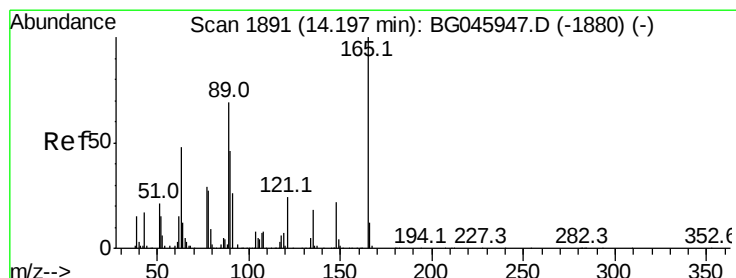
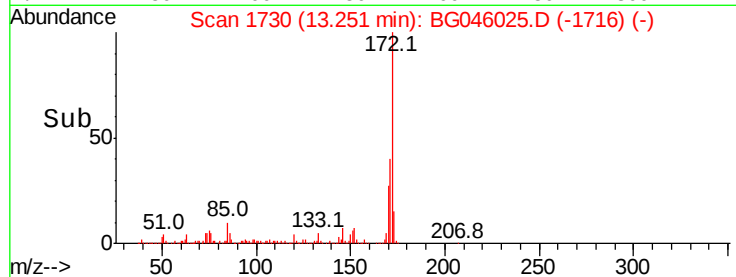
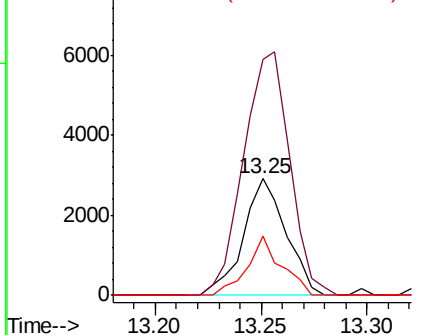


Abundance

Ion 65.00 (64.70 to 65.70): BGC

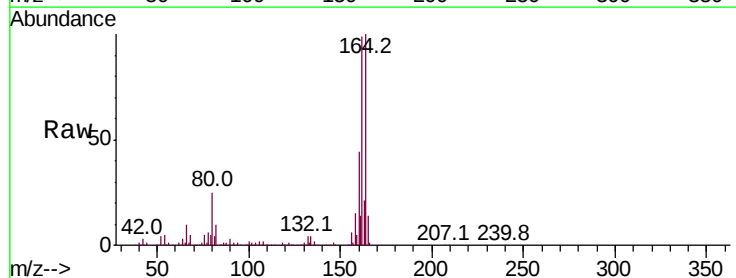
Ion 92.00 (91.70 to 92.70): BGC

Ion 138.00 (137.70 to 138.70): BGC



#51  
2,6-Dinitrotoluene  
Concen: 12.522 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. 0.43 min  
Lab File: BG046025.D  
Acq: 13 Jul 2020 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 51.0  | 76.4# |
| 89      | 1.4   | 55.7  | 83.5# |

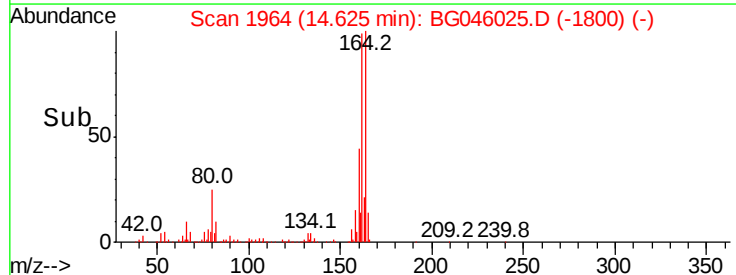
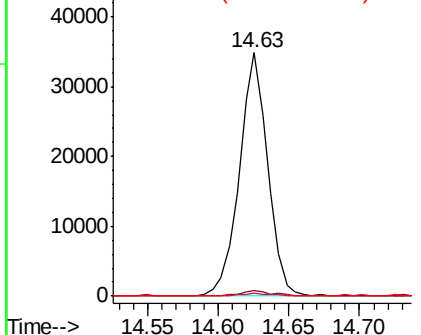


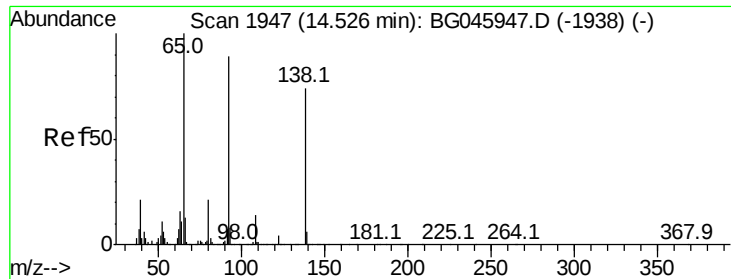
Abundance

Ion 165.00 (164.70 to 165.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC





#53

3-Nitroaniline

Concen: 2.993 ng

RT: 14.63 min Scan# 1965

Delta R.T. 0.11 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

Instrument :

BNA\_G

ClientSampleId :

PB130129BL

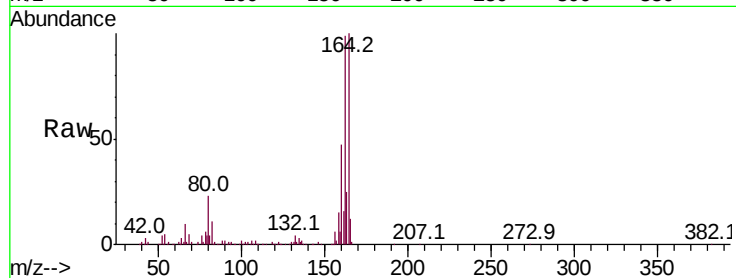
Tot Ion:138 Resp: 65

Ion Ratio Lower Upper

138 100

108 2320.1 15.4 23.2#

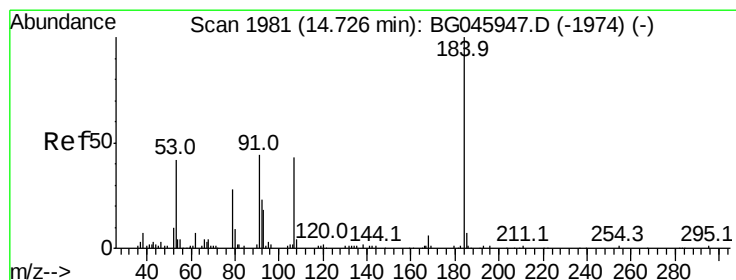
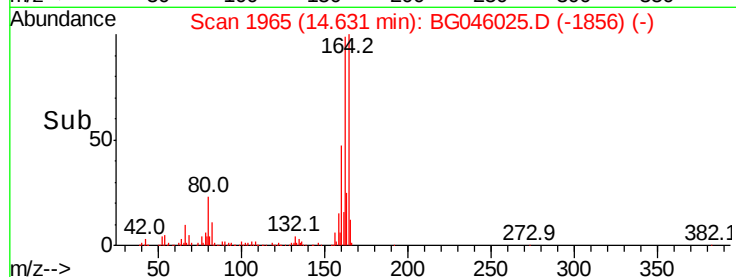
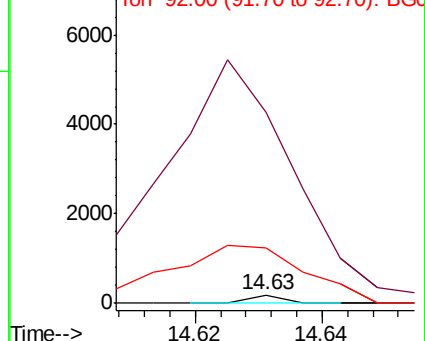
92 673.4 95.9 143.9#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC



#54

2,4-Dinitrophenol

Concen: 6.150 ng

RT: 14.75 min Scan# 1986

Delta R.T. 0.03 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

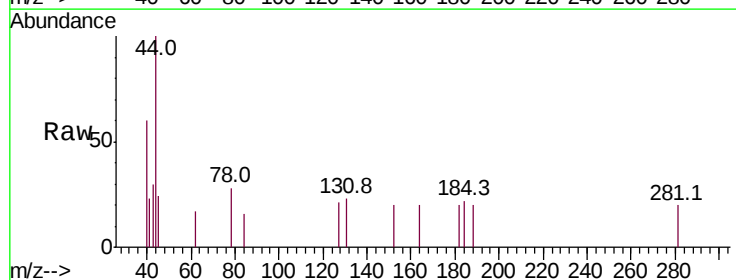
Tgt Ion:184 Resp: 79

Ion Ratio Lower Upper

184 100

63 0.0 46.0 69.0#

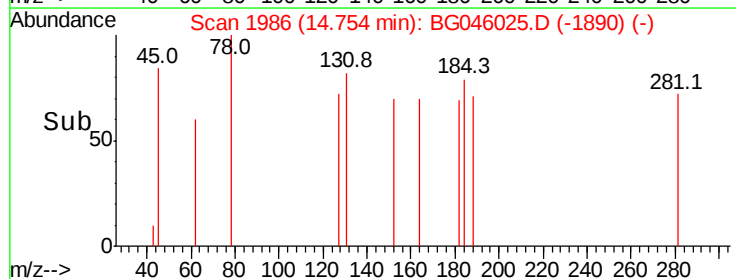
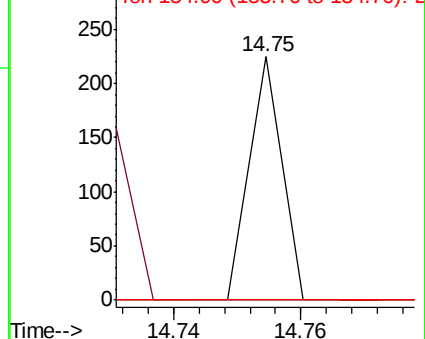
154 0.0 58.2 87.2#

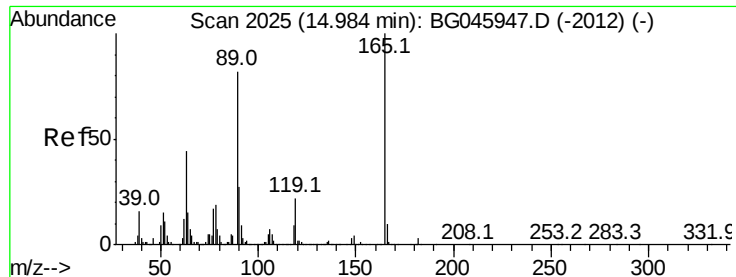


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 154.00 (153.70 to 154.70): E

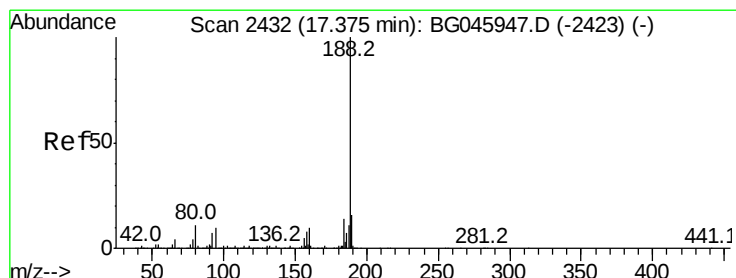
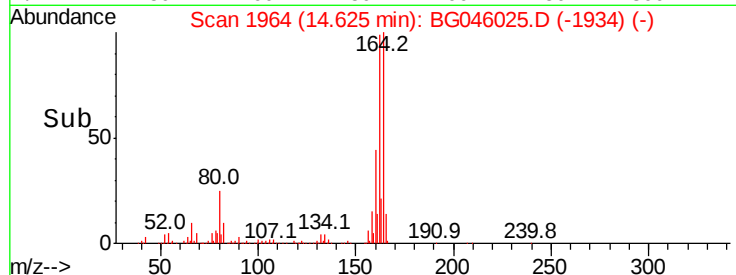
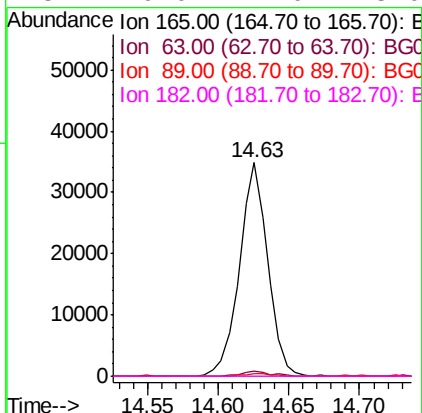
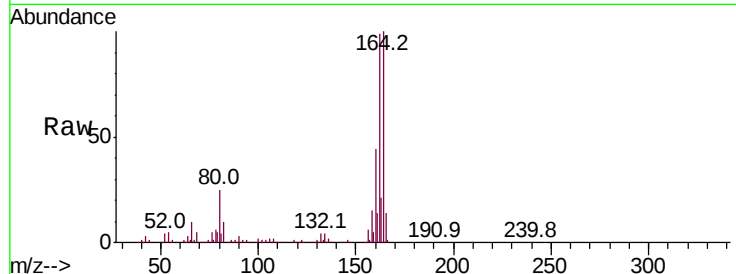




#57  
2,4-Dinitrotoluene  
Concen: 11.038 ng  
RT: 14.63 min Scan# 1964  
Delta R.T. -0.35 min  
Lab File: BG046025.D  
Acq: 13 Jul 2020 16:36

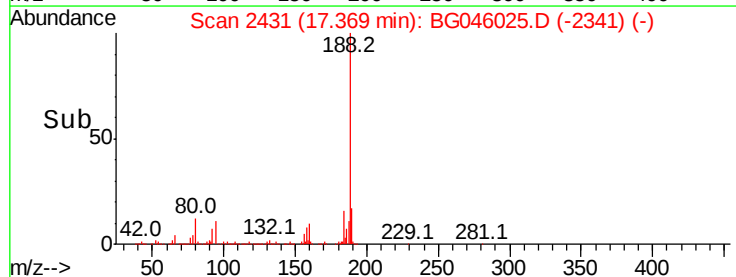
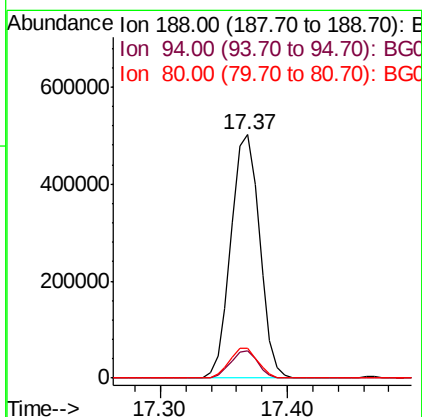
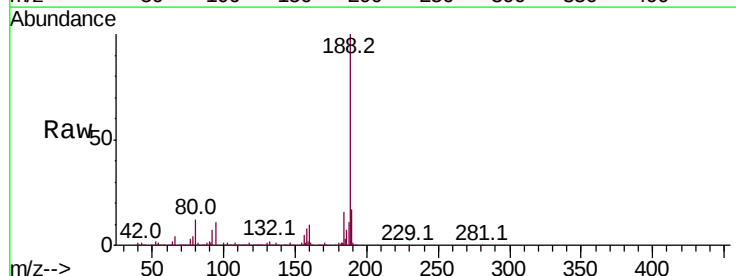
Instrument :  
BNA\_G  
ClientSampleId :  
PB130129BL

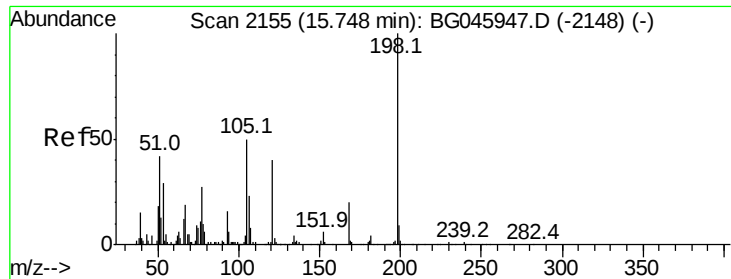
Tot Ion:165 Resp: 48709  
Ion Ratio Lower Upper  
165 100  
63 2.1 35.4 53.0#  
89 1.4 65.4 98.2#  
182 0.0 2.0 3.0#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.37 min Scan# 2431  
Delta R.T. -0.00 min  
Lab File: BG046025.D  
Acq: 13 Jul 2020 16:36

Tgt Ion:188 Resp: 784116  
Ion Ratio Lower Upper  
188 100  
94 11.0 8.2 12.4  
80 12.1 9.0 13.6





#65

4,6-Dinitro-2-methylphenol

Concen: 7.249 ng

RT: 16.11 min Scan# 2217

Delta R.T. 0.37 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

Instrument :

BNA\_G

ClientSampleId :

PB130129BL

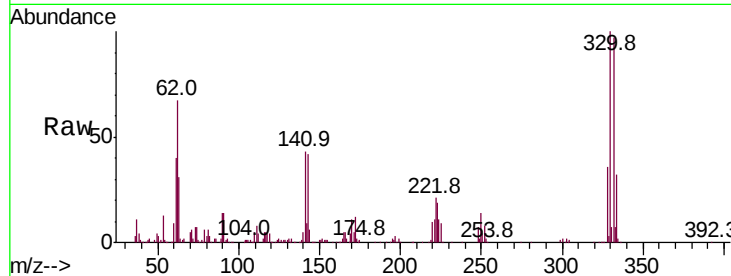
Tot Ion:198 Resp: 1443

Ion Ratio Lower Upper

198 100

51 98.9 24.5 64.5#

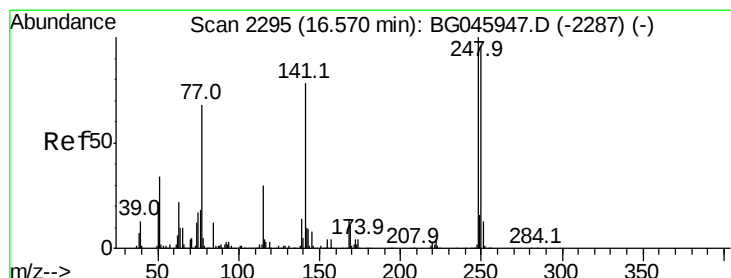
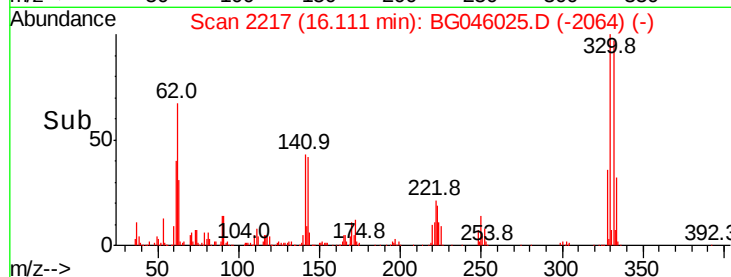
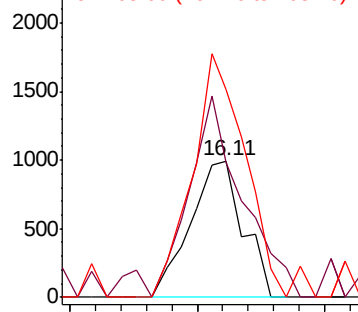
105 151.9 30.9 70.9#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 2.599 ng

RT: 16.11 min Scan# 2217

Delta R.T. -0.45 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

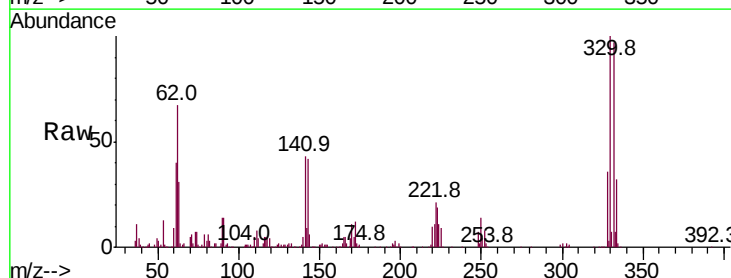
Tgt Ion:248 Resp: 22760

Ion Ratio Lower Upper

248 100

250 194.5 76.6 114.8#

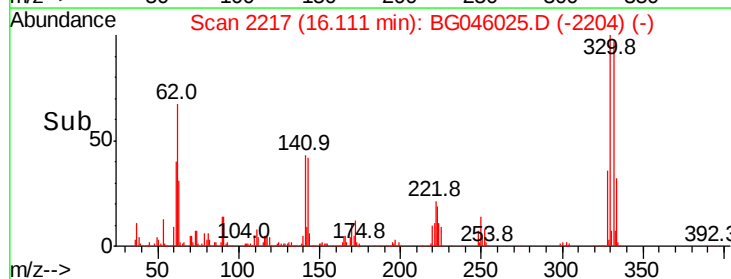
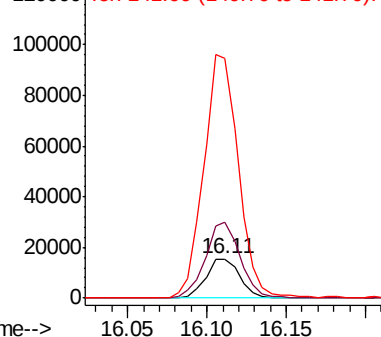
141 615.4 62.7 94.1#

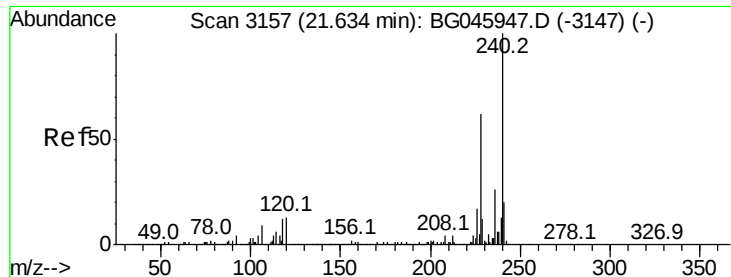


Abundance Ion 248.00 (247.70 to 248.70): E

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: 21.62 min Scan# 3155

Delta R.T. -0.01 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

Instrument :

BNA\_G

ClientSampleId :

PB130129BL

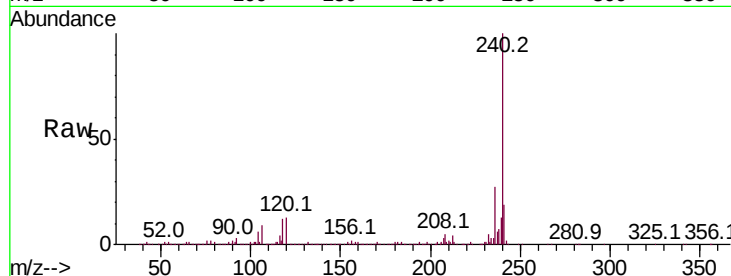
Tot Ion:240 Resp: 690957

Ion Ratio Lower Upper

240 100

120 12.6 10.6 16.0

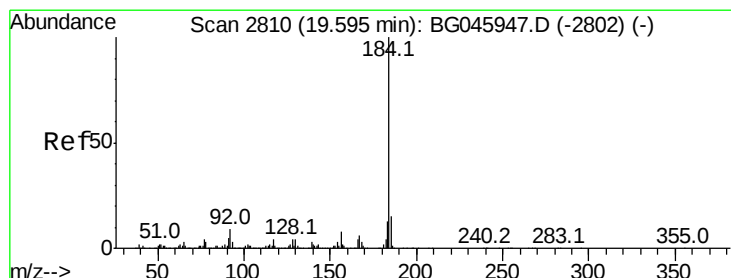
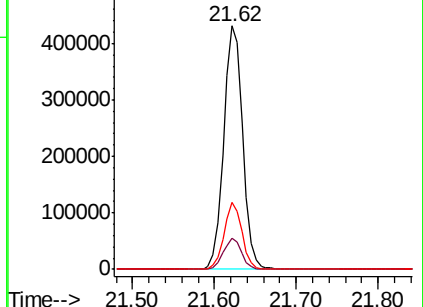
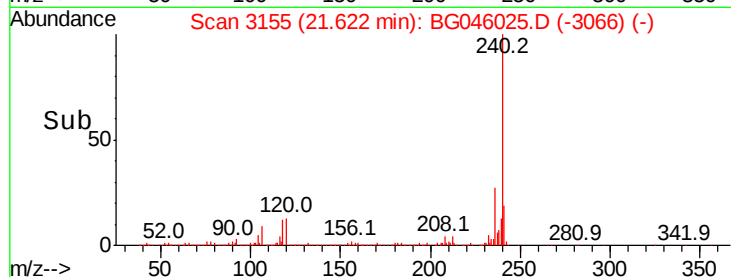
236 27.3 20.4 30.6



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: 2.761 ng

RT: 19.98 min Scan# 2876

Delta R.T. 0.39 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

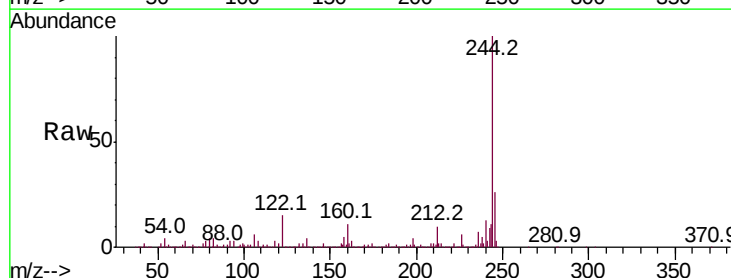
Tgt Ion:184 Resp: 54550

Ion Ratio Lower Upper

184 100

185 16.8 11.6 17.4

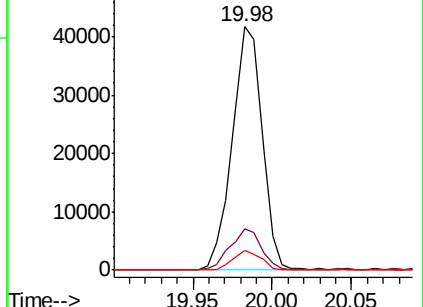
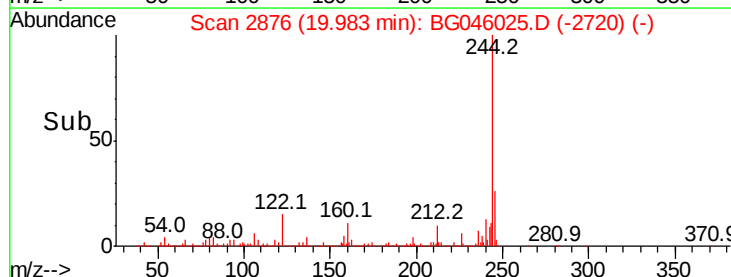
183 7.9 10.4 15.6#

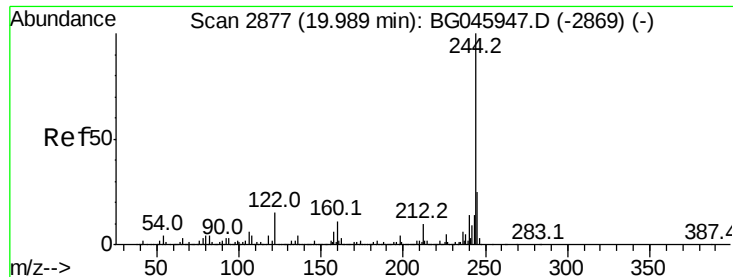


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 83.580 ng

RT: 19.98 min Scan# 2876

Delta R.T. -0.00 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

Instrument :

BNA\_G

ClientSampleId :

PB130129BL

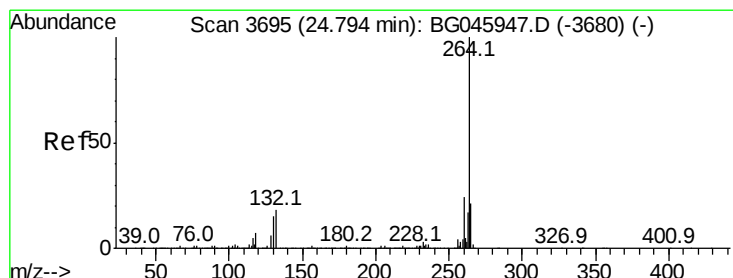
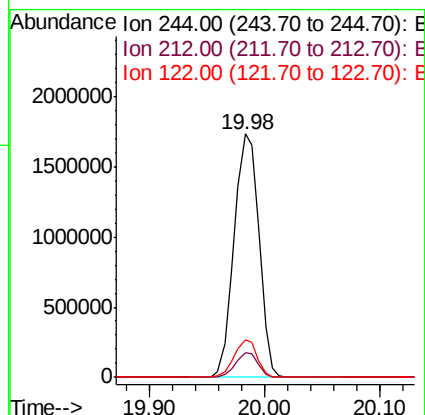
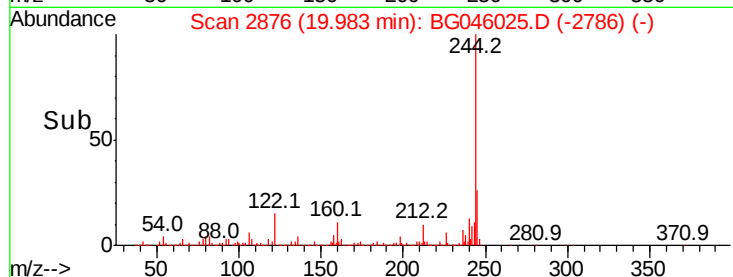
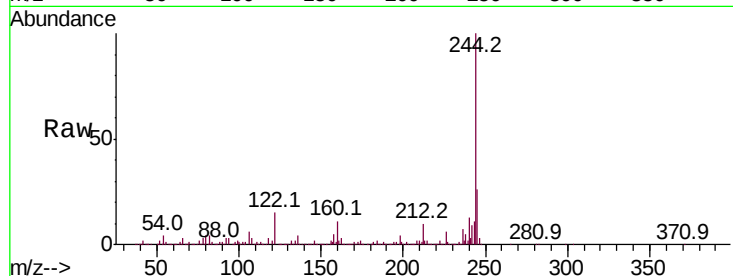
Tot Ion:244 Resp: 2594900

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 10.4  | 8.3   | 12.5  |
| 122 | 15.5  | 12.1  | 18.1  |

244 100

212 10.4 8.3 12.5

122 15.5 12.1 18.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.78 min Scan# 3692

Delta R.T. -0.01 min

Lab File: BG046025.D

Acq: 13 Jul 2020 16:36

Tgt Ion:264 Resp: 677054

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 19.0  | 28.6  |
| 265 | 23.5  | 16.9  | 25.3  |

264 100

260 23.7 19.0 28.6

265 23.5 16.9 25.3

