

# **Supporting Information**

for

# Synthesis of benzo[f]quinazoline-1,3(2H,4H)-diones

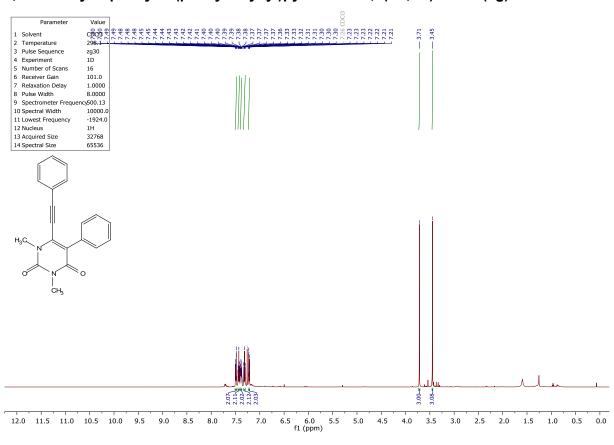
Ruben Manuel Figueira de Abreu, Peter Ehlers and Peter Langer

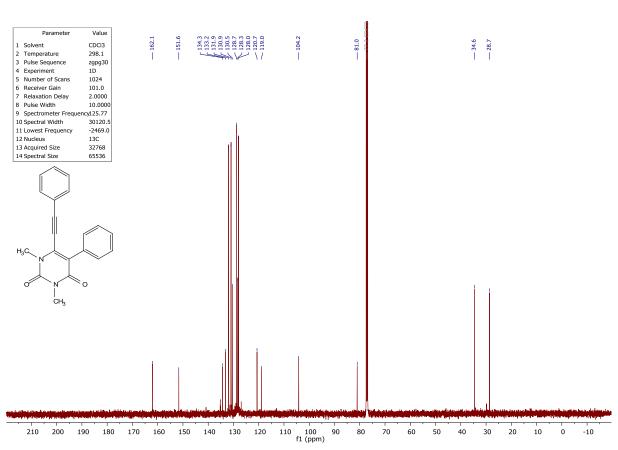
Beilstein J. Org. Chem. 2024, 20, 2708-2719. doi:10.3762/bjoc.20.228

**Copies of NMR spectra** 

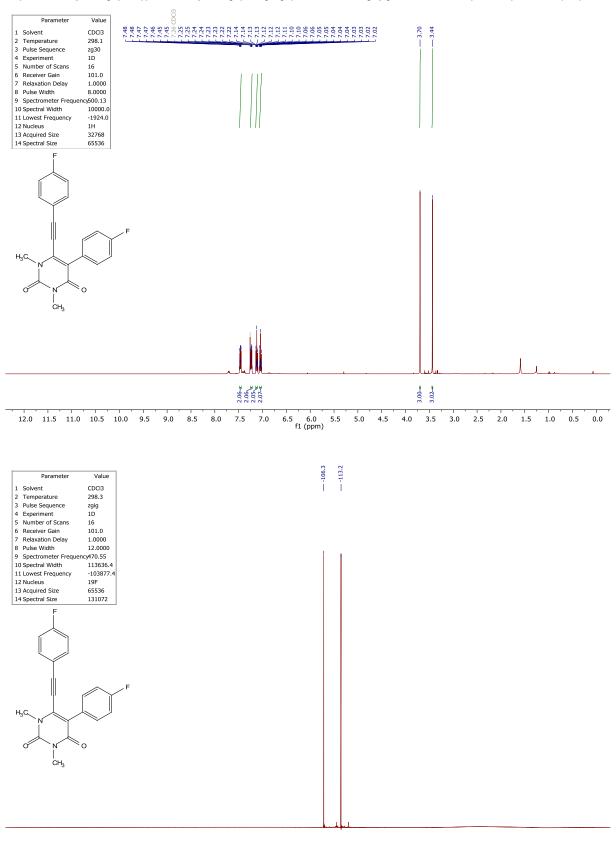
## <sup>1</sup>H, <sup>13</sup>C, and <sup>19</sup>F NMR spectra

### 1,3-Dimethyl-5-phenyl-6-(phenylethynyl)pyrimidine-2,4(1*H*,3*H*)-dione (4g).

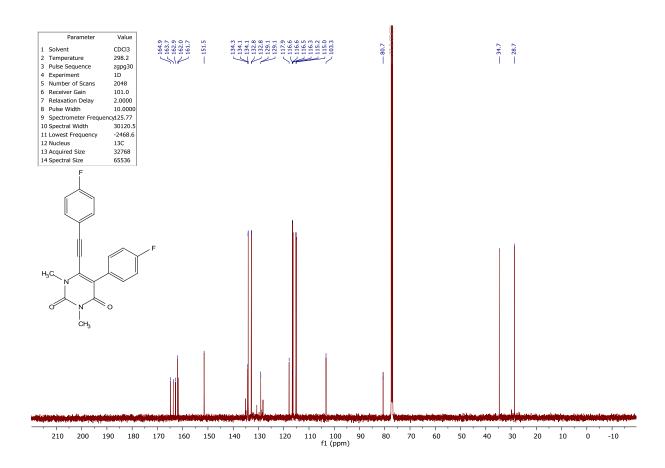




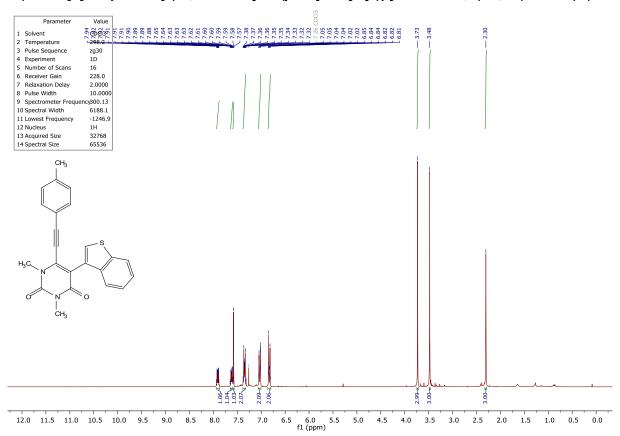
#### 5-(4-Fluorophenyl)-6-((4-fluorophenyl)ethynyl)-1,3-dimethylpyrimidine-2,4(1*H*,3*H*)-dione (4h)

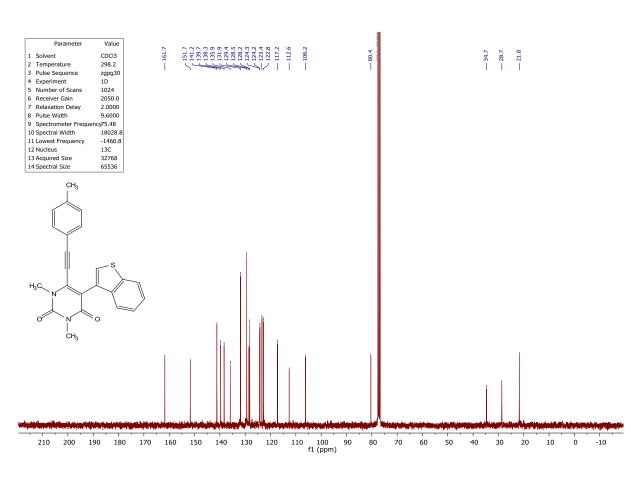


-90 -100 -110 -120 -130 -140 -150 -160 f1 (ppm)

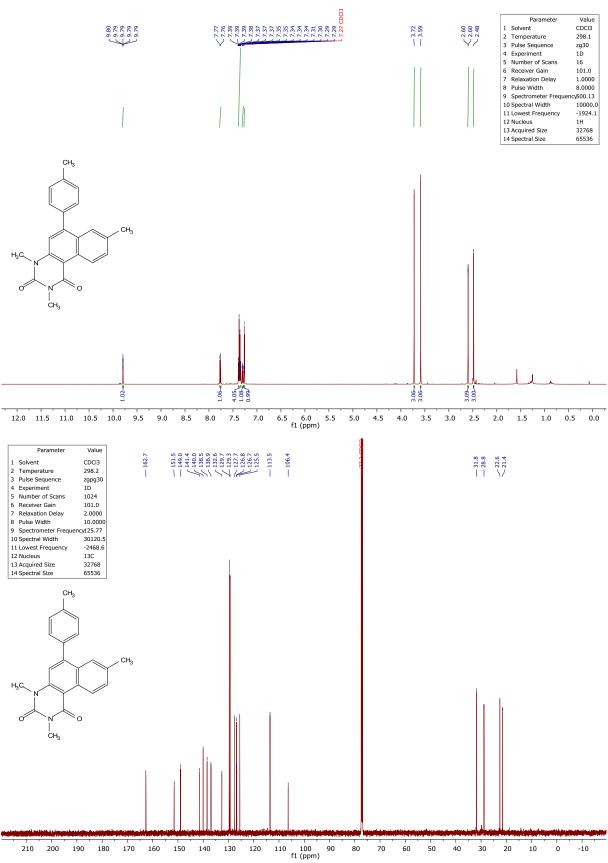


#### 5-(Benzo[b]thiophen-3-yl)-1,3-dimethyl-6-(p-tolylethynyl)pyrimidine-2,4(1H,3H)-dione (4i)

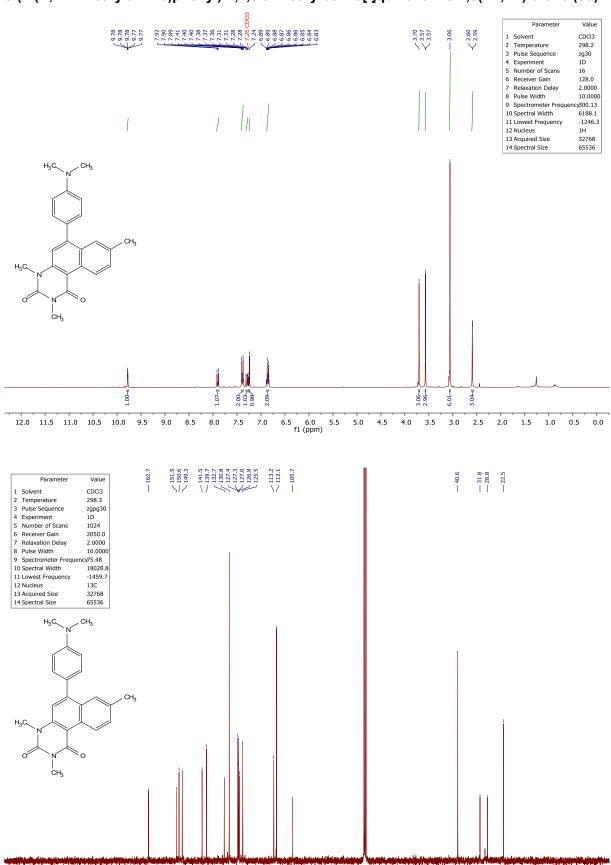




## 2,4,8-Trimethl-6-(p-tolyl)benzo[f]quinazoline-1,3(2H,4H)-dione (5a)



#### 6-(4-(N,N-Dimethylamino)phenyl)-2,4,8-trimethylbenzo[f]quinazoline-1,3(2H,4H)-dione (5d)

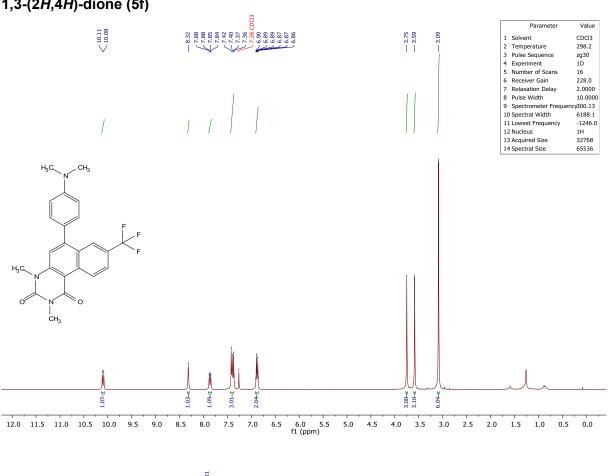


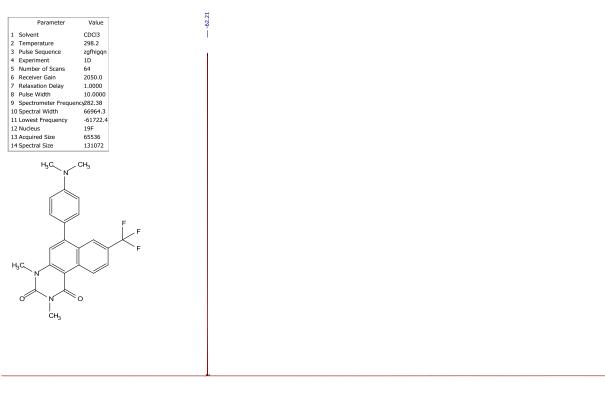
110 100 f1 (ppm)

190

160 150 140 130 120

# 6-(4-(N,N-Dimethylamino)phenyl)-2,4-dimethyl-8-(trifluoromethyl)benzo[f]quinazoline-1,3-(2H,4H)-dione (5f)





-90 -100 -110 f1 (ppm) -120 -130

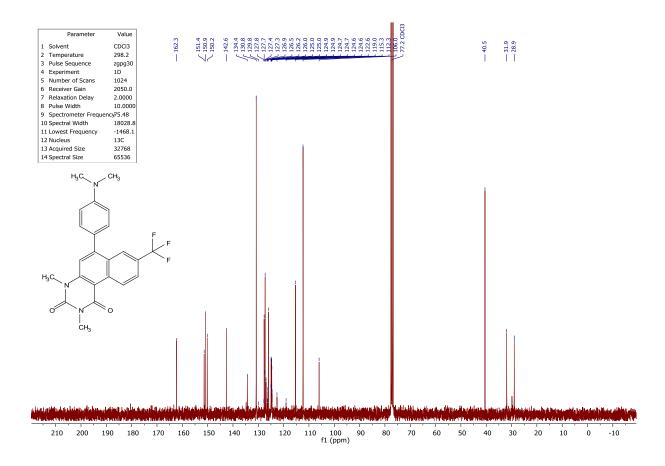
-140

-150 -160 -170 -180 -190 -200

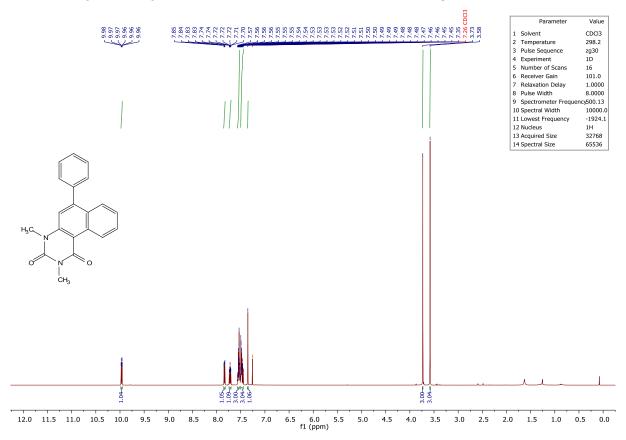
10

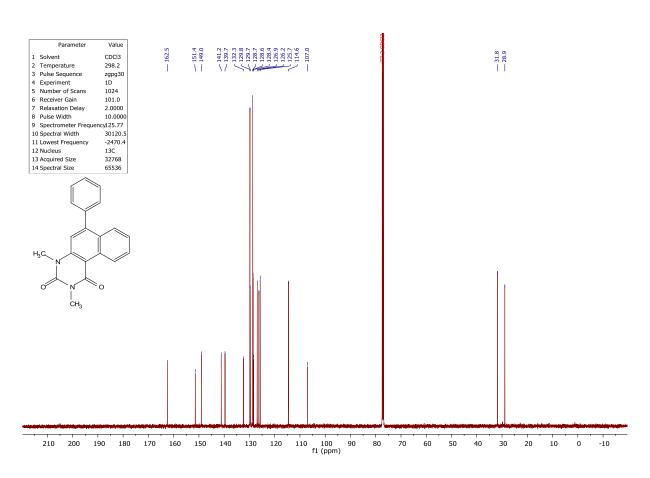
-10

-30 -40 -50 -60 -70

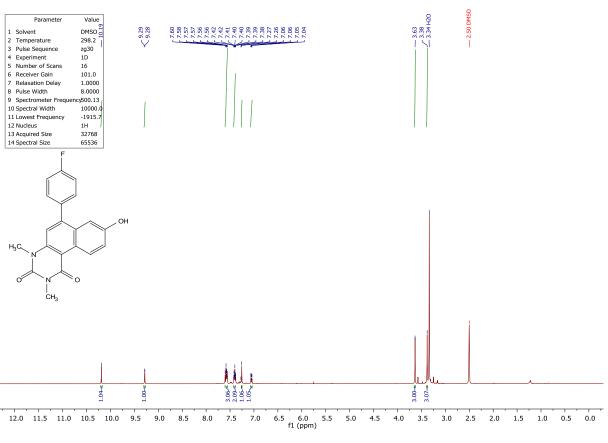


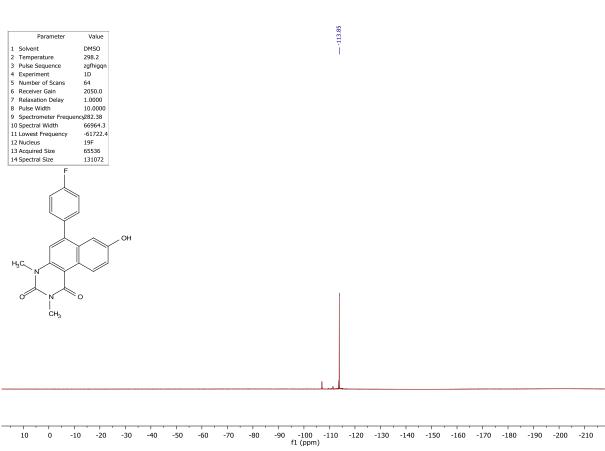
#### 2,4-Dimethyl-6-phenylbenzo[f]quinazoline-1,3(2H,4H)-dione (5g)

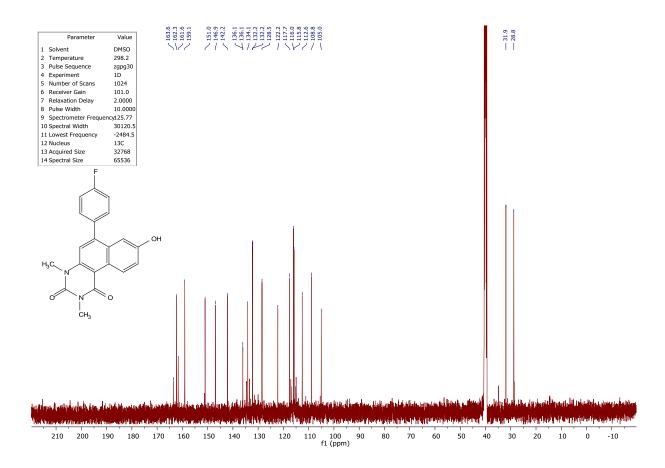




## 6-(4-Fluorophenyl)-8-hydroxy-2,4-dimethylbenzo[f]quinazoline-1,3(2H,4H)-dione (5h)







## 2,4-Dimethyl-6-(p-tolyl)benzo[4,5]thieno[3,2-f]quinazoline-1,3(2H,4H)-dione (5i)

