#### **Electronic Supplementary Information**

# Diastereoselective Synthesis of Spiro-Cyclopropanyl-Cyclohexadienones *via* Direct Sulfide-Catalyzed [2 + 1] Annulation of *para*-Quinone Methides with Bromides

Yingpeng Su,\* Yanan Zhao, Bingbing Chang, Qinqin Ling, Yawei Feng, Xiaolong Zhao, Danfeng Huang, Ke-Hu Wang, Congde Huo,\* and Yulai Hu\*

College of Chemistry and Chemical Engineering, Northwest Normal University, 967 Anning East Road, Lanzhou 730070, P. R. China

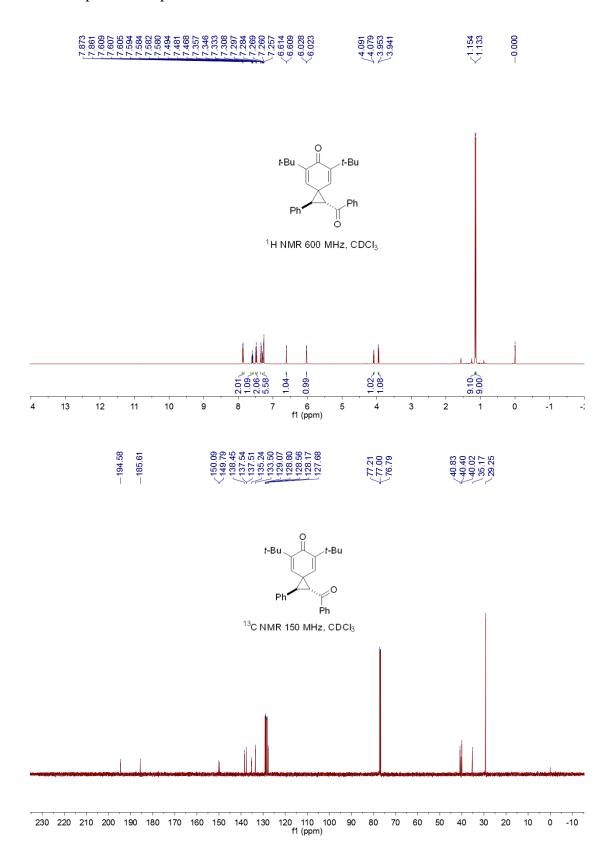
\* E-mail: <a href="mailto:suyp51@nwnu.edu.cn">suyp51@nwnu.edu.cn</a>;

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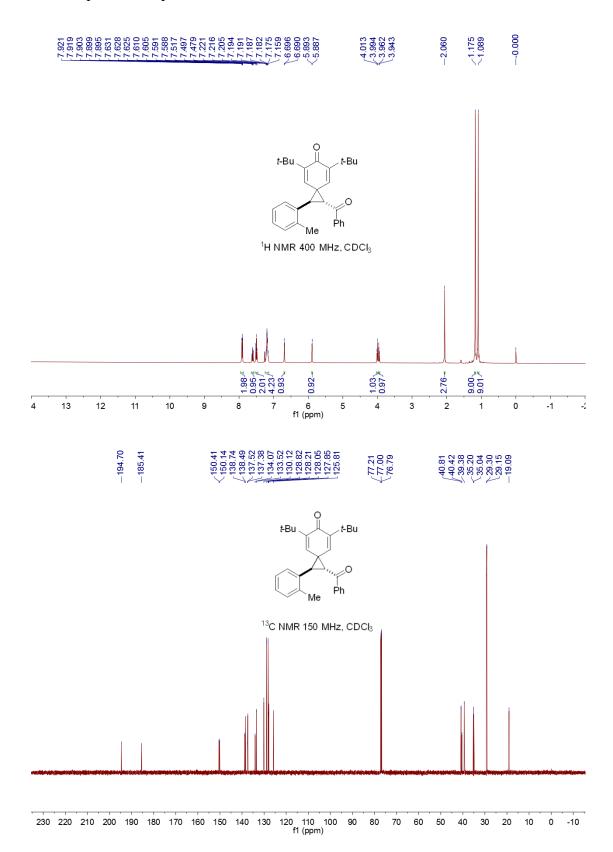
1.	NMR copies of compounds <b>4a-4y</b> .	S3
2.	NMR copies of compounds <b>6a-6n</b> .	.S30

### 1. NMR copies of compounds 4a-4y.

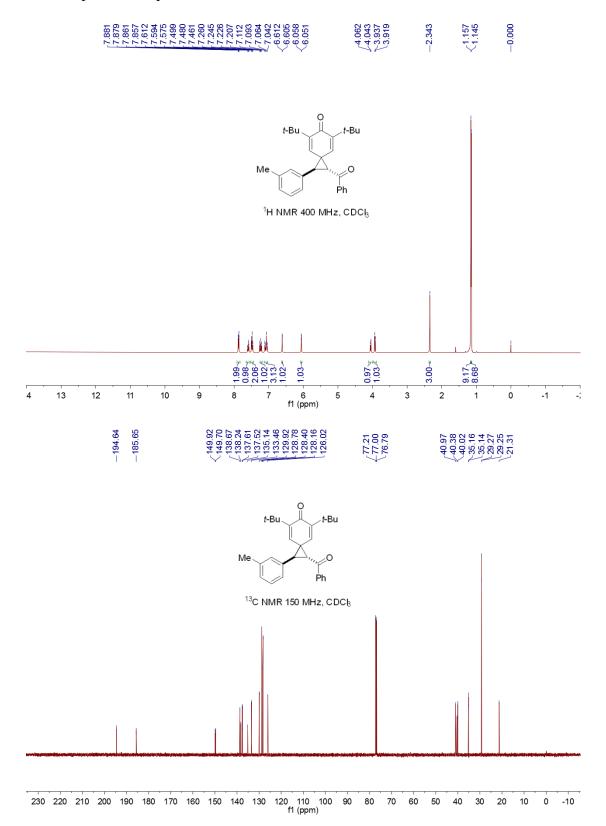
NMR copies of compound 4a:



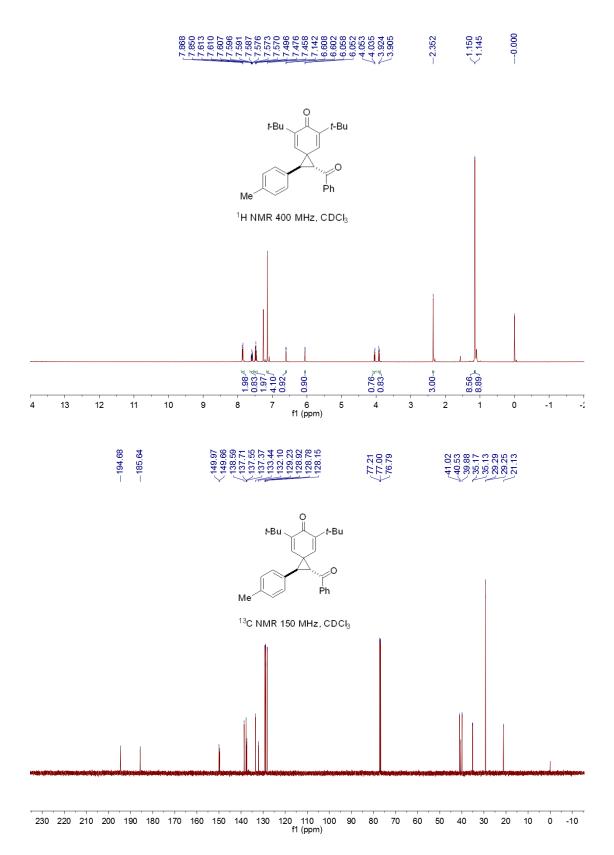
### NMR copies of compound **4b**:



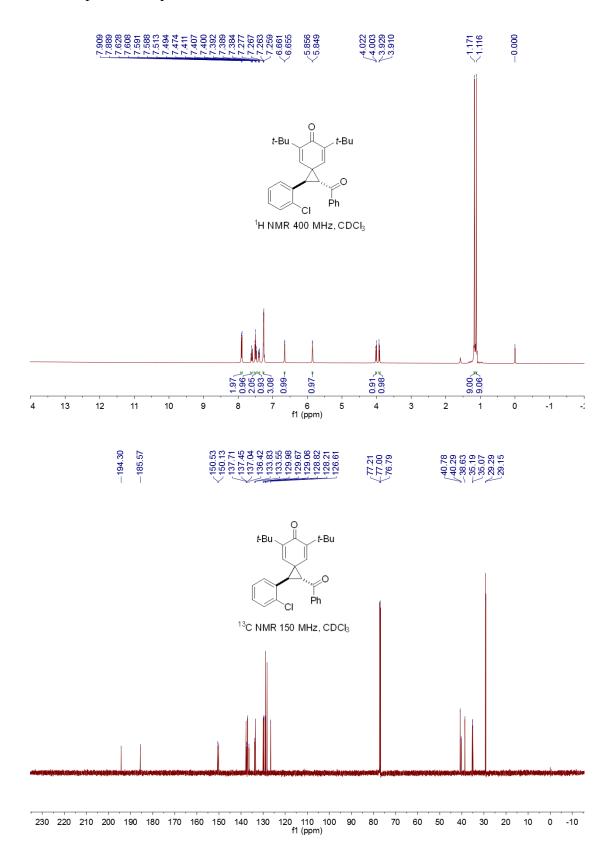
### NMR copies of compound 4c:



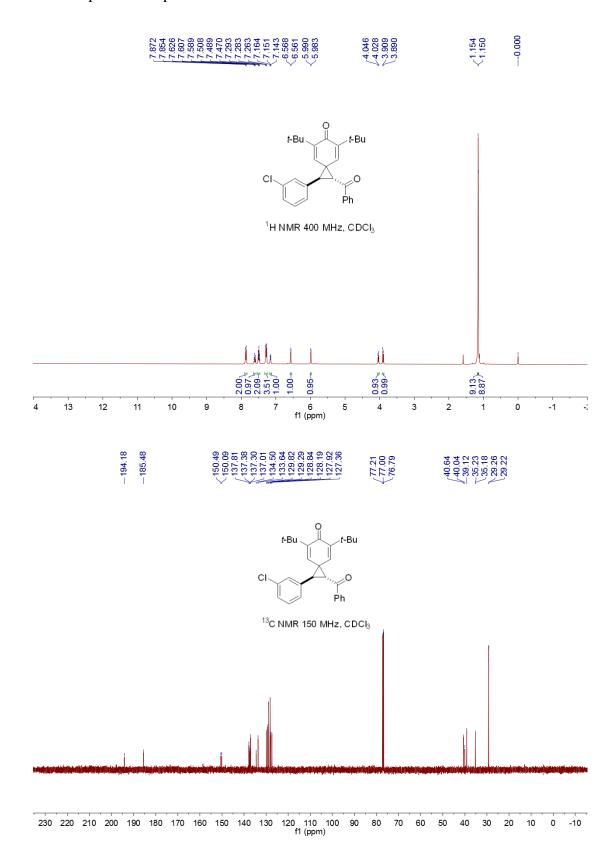
### NMR copies of compound 4d:



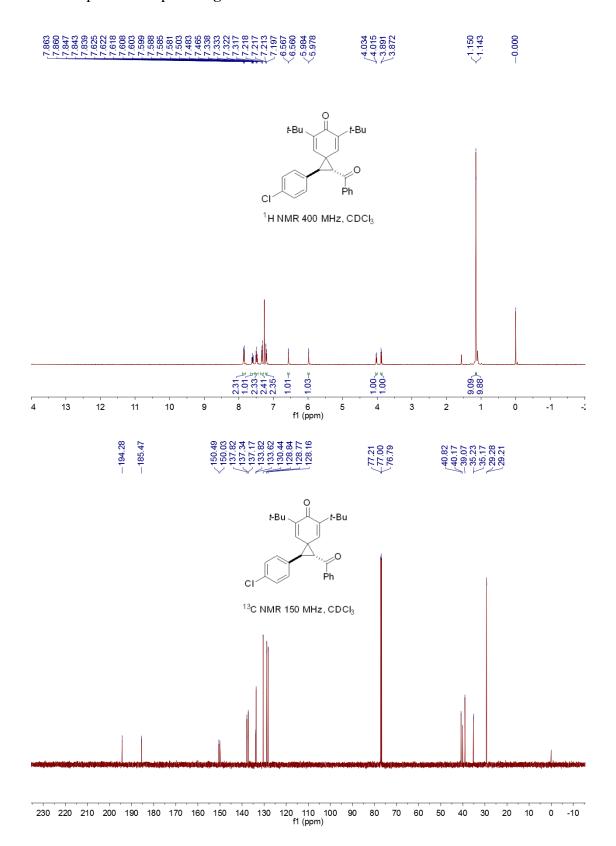
### NMR copies of compound 4e:



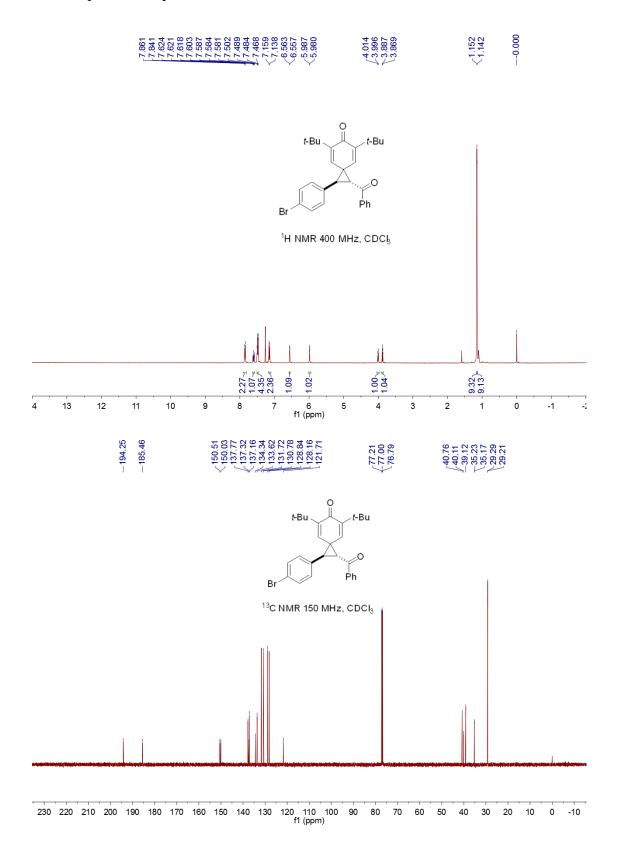
### NMR copies of compound 4f:



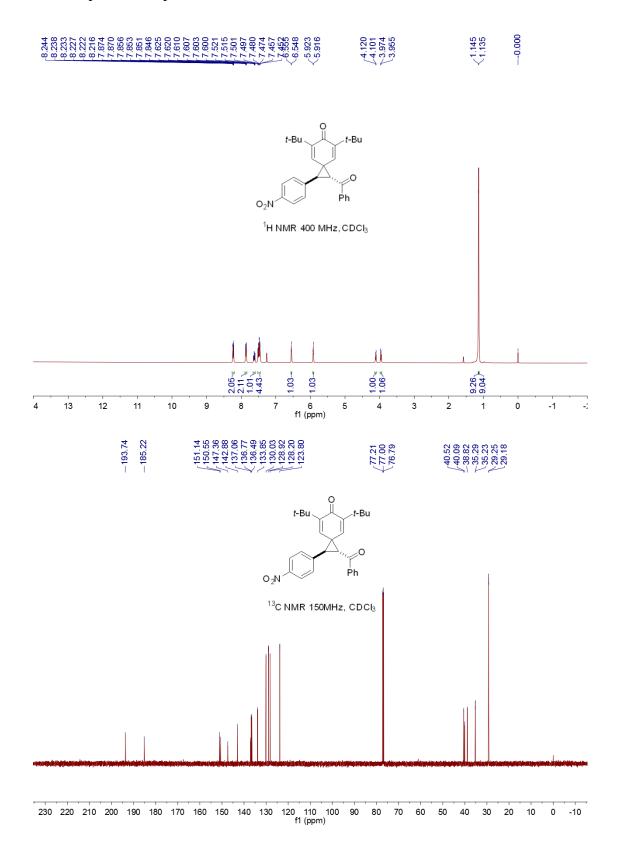
### NMR copies of compound 4g:



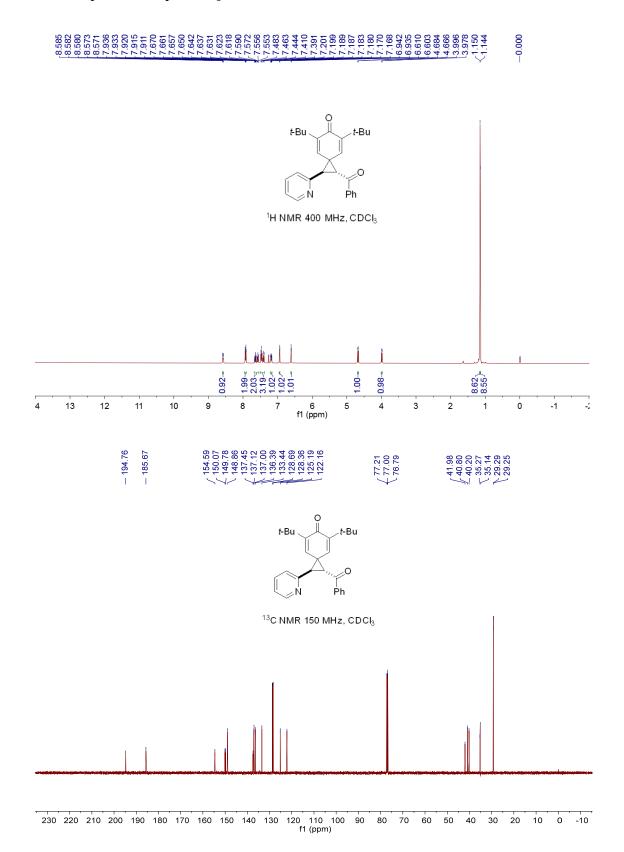
### NMR copies of compound 4h:



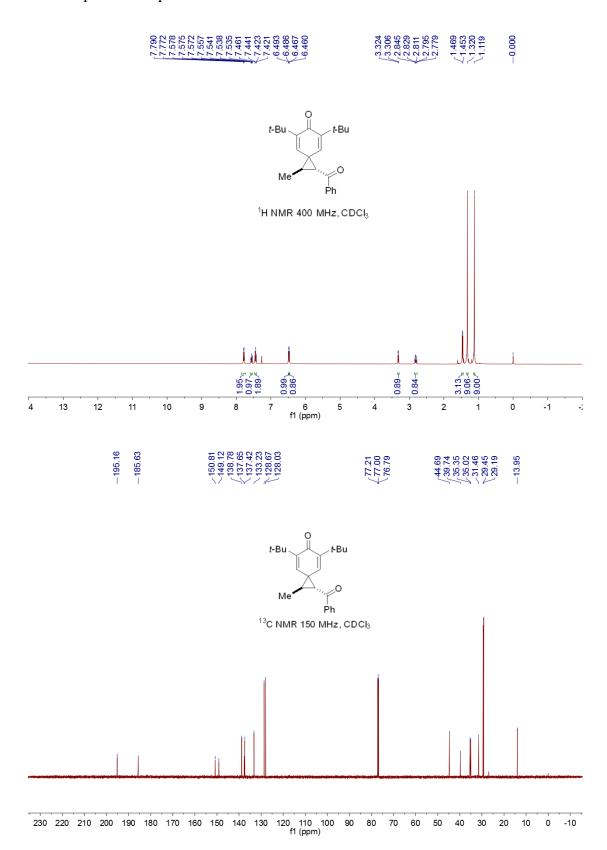
#### NMR copies of compound 4i:



### NMR copies of compound 4j:

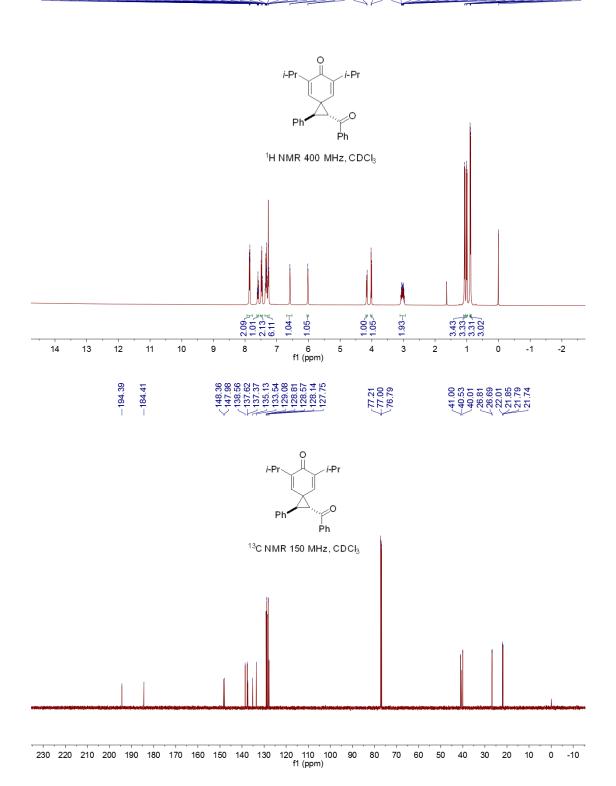


### NMR copies of compound 4k:

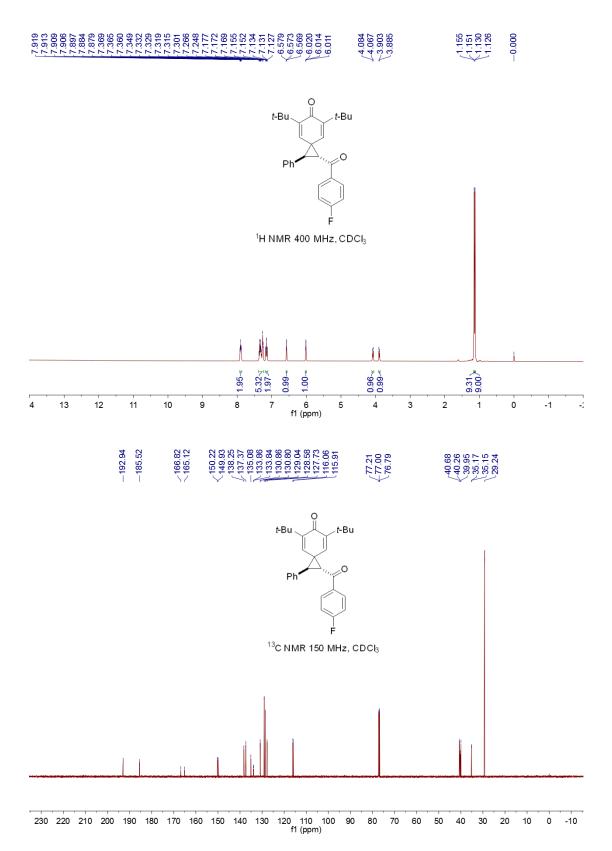


### NMR copies of compound 41:

#### 7.7869 7.7869 7.7615 7.



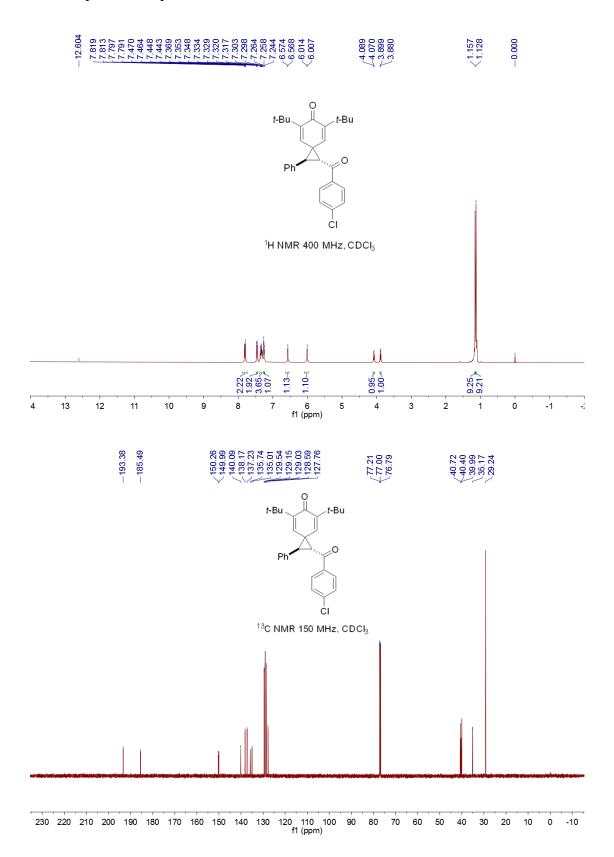
### NMR copies of compound 4m:



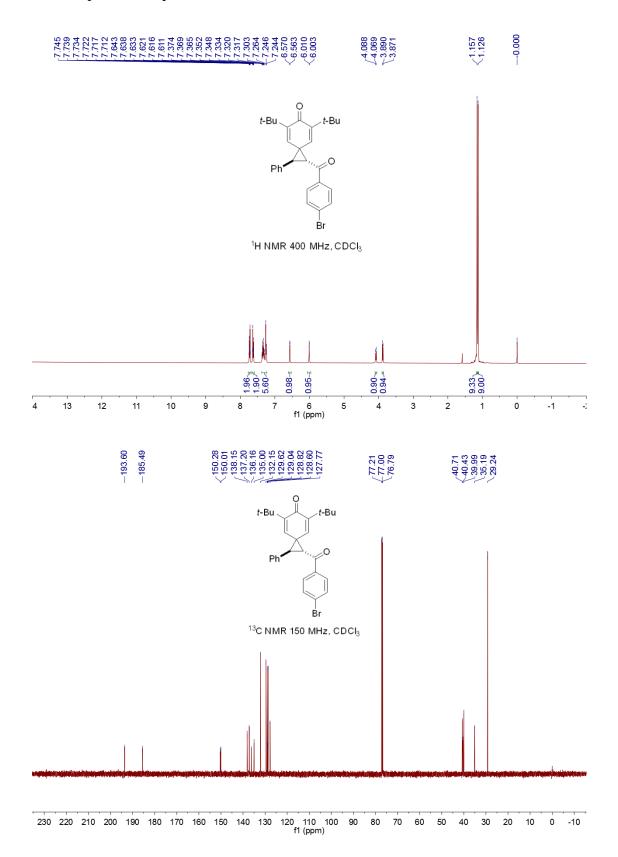
 $^{19}\text{F NMR }376~\text{MHz}, \text{CDCI}_3$ 

0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -26 f1 (ppm)

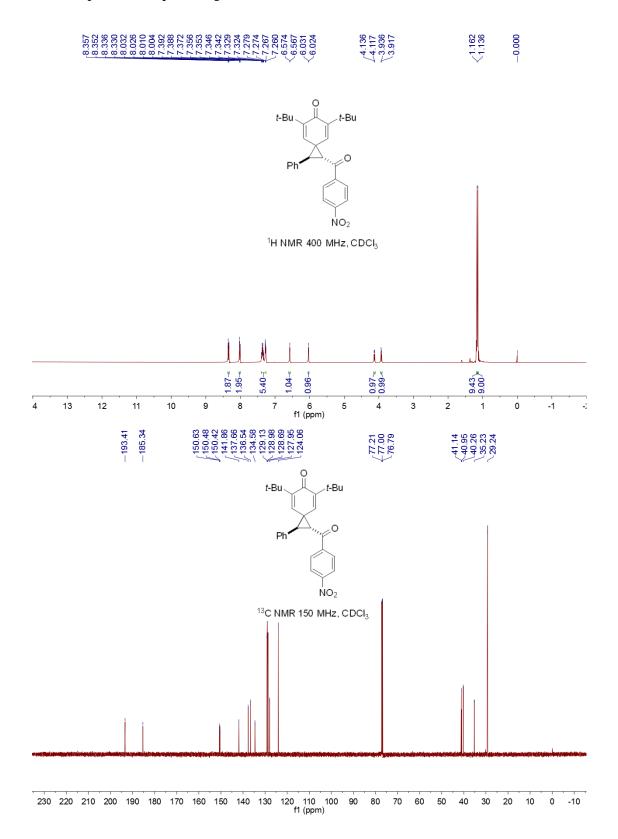
### NMR copies of compound 4n:



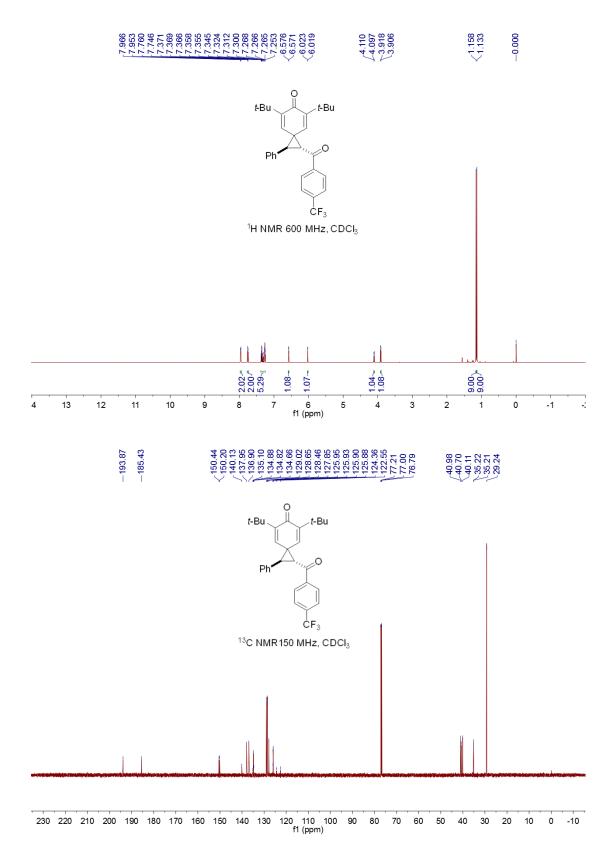
### NMR copies of compound 40:



### NMR copies of compound **4p**:



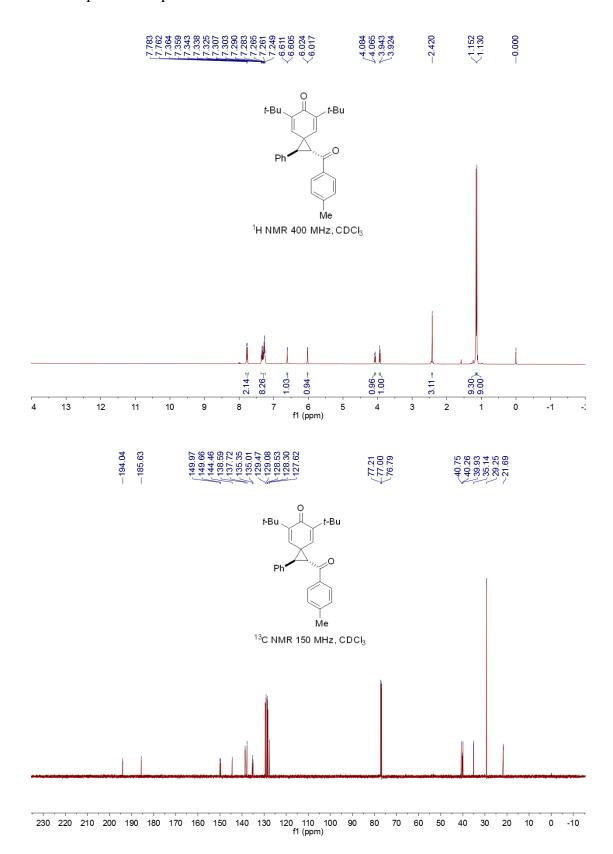
### NMR copies of compound 4q:



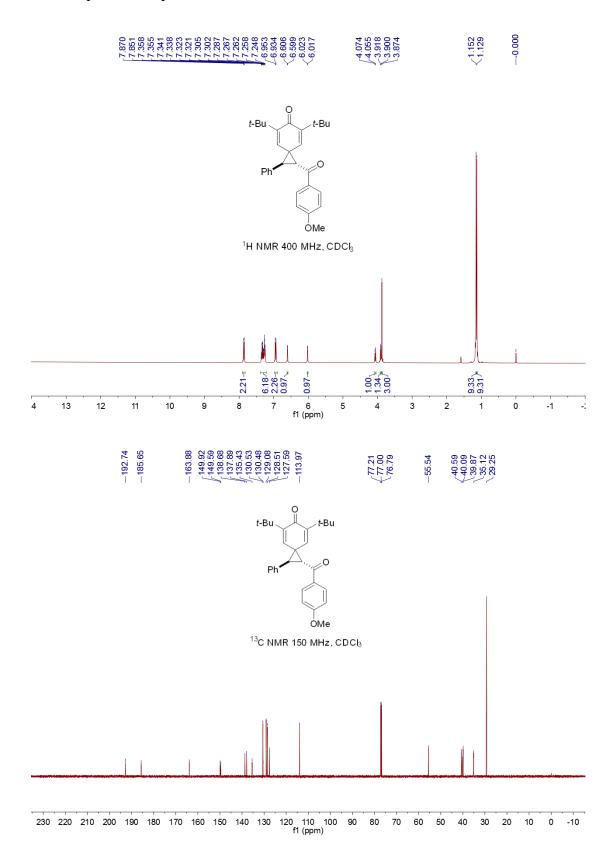
 $^{19}\mathrm{F}\ \mathrm{NMR}\ \mathrm{376}\ \mathrm{MHz}, \mathrm{CDCI}_3$ 

0 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130 -140 -150 -160 -170 -180 -190 -200 -210 -220 -230 -240 -250 -26 f1 (ppm)

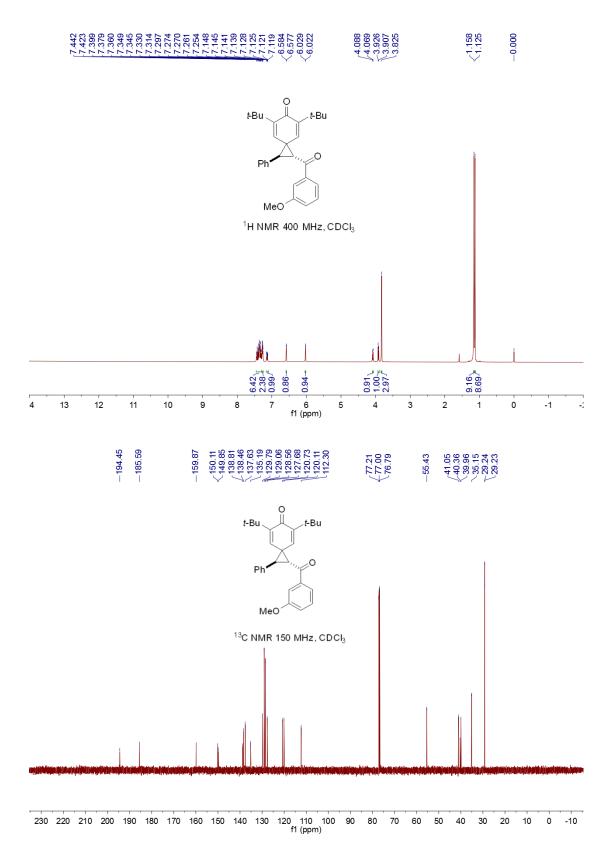
### NMR copies of compound 4r:



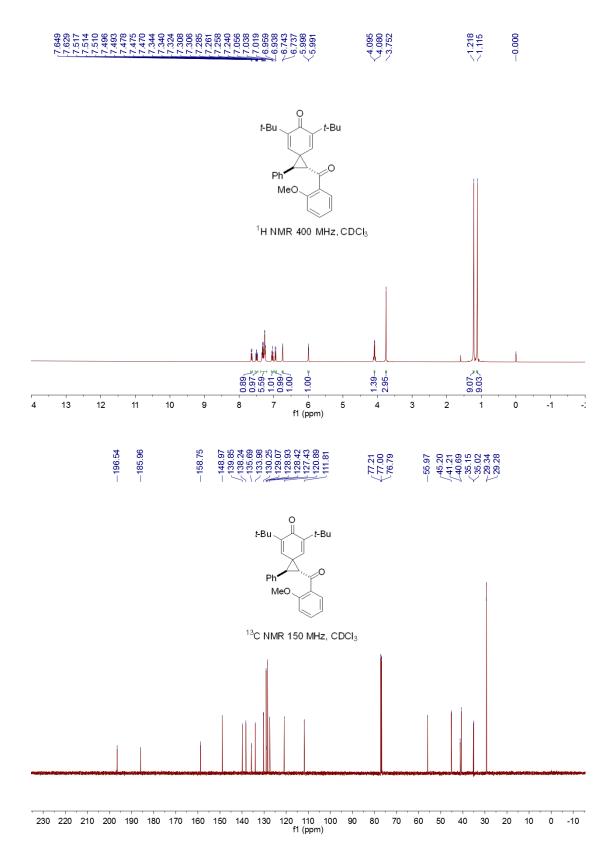
### NMR copies of compound 4s:



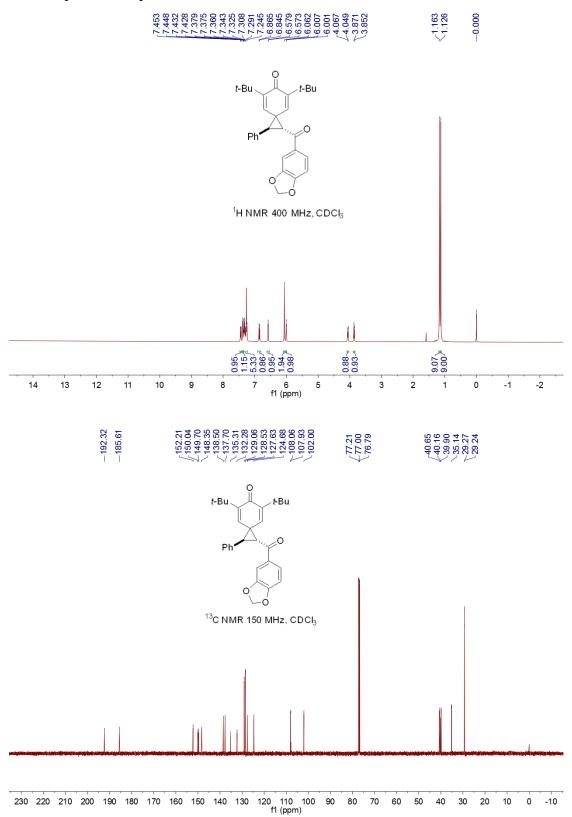
### NMR copies of compound 4t:



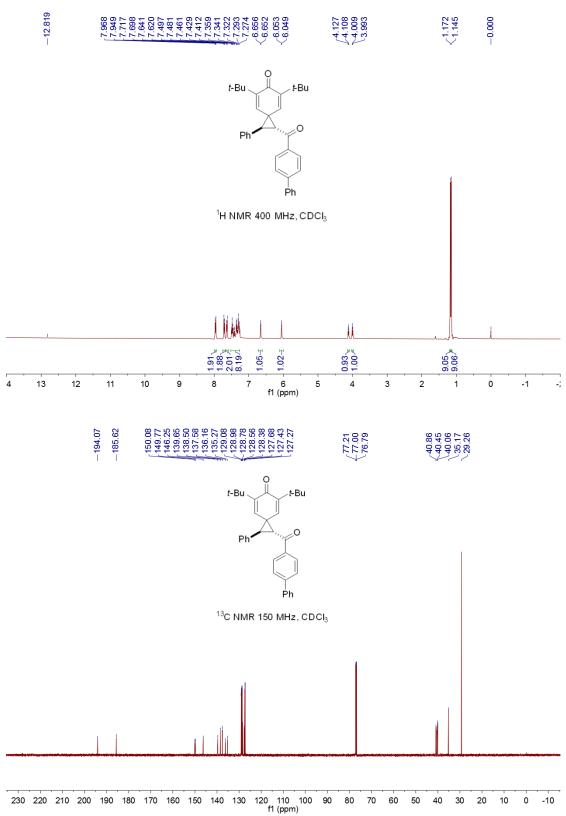
### NMR copies of compound 4u:



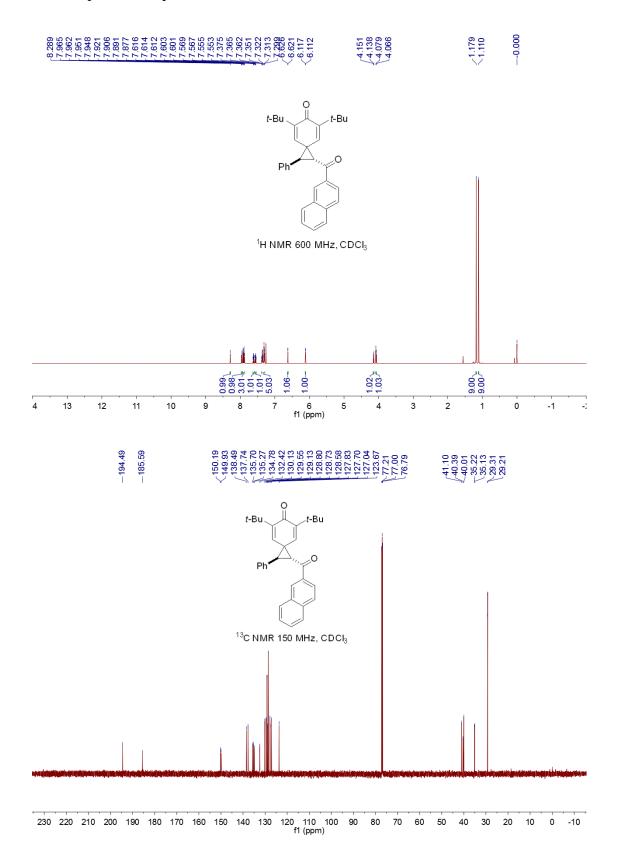
### NMR copies of compound 4v:



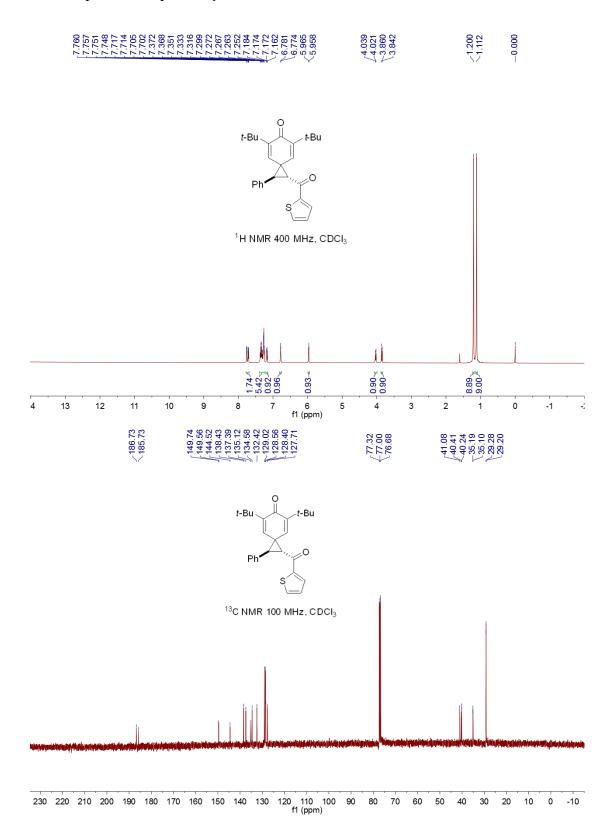
### NMR copies of compound 4w:



### NMR copies of compound 4x:

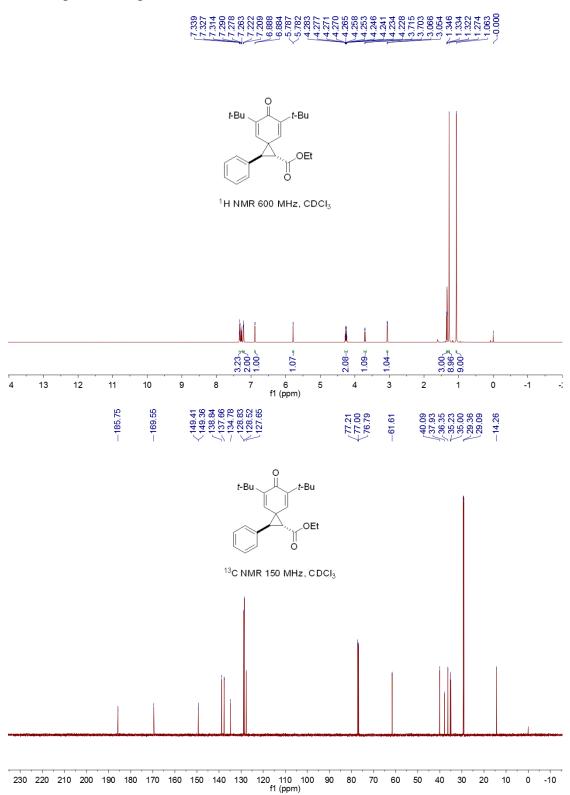


### NMR copies of compound 4y:

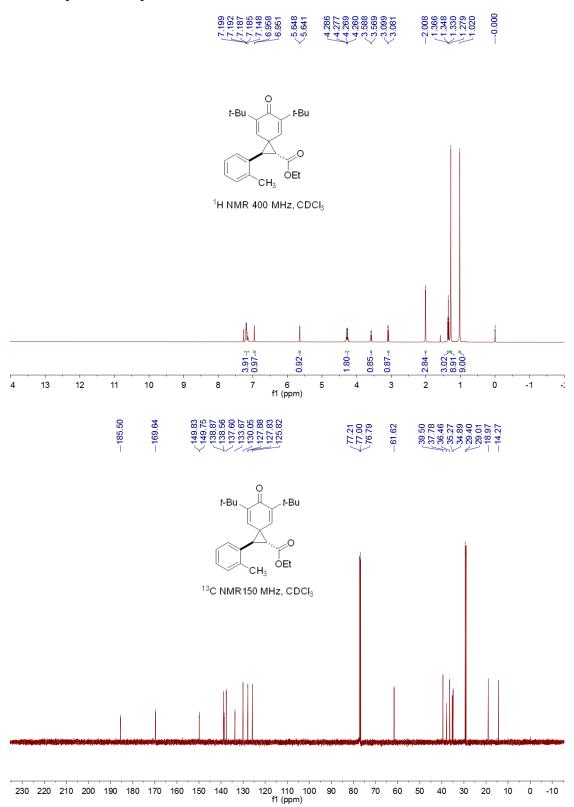


### 2. NMR copies of compounds 6a-6n.

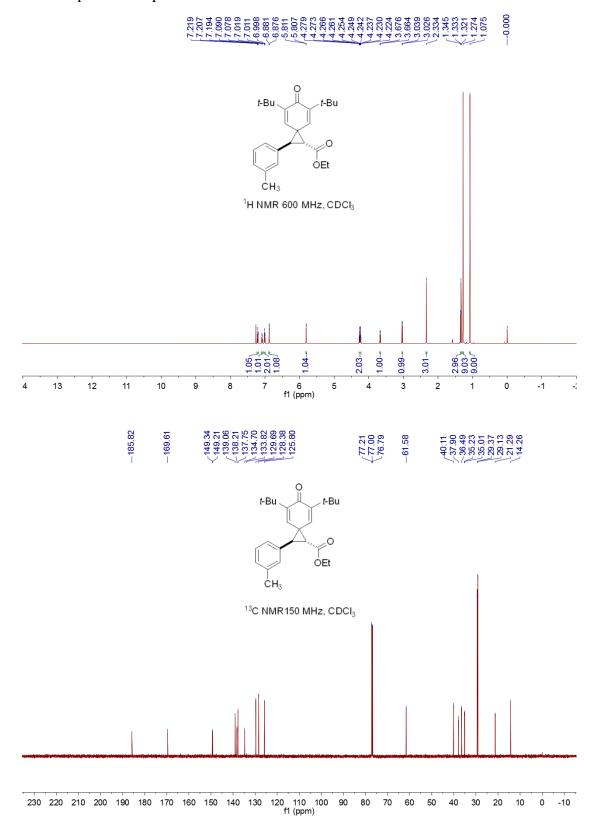
NMR copies of compound 6a:



### NMR copies of compound **6b**:

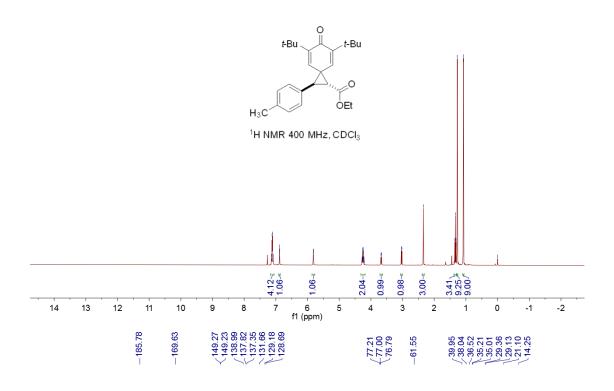


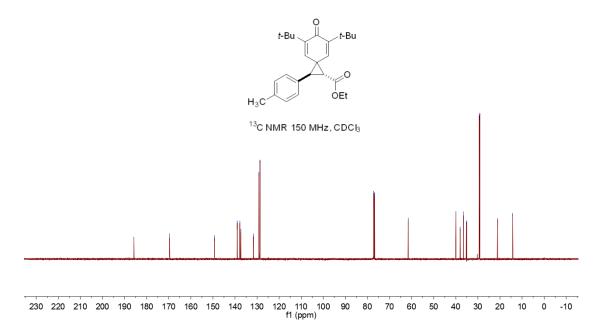
### NMR copies of compound 6c:



### NMR copies of compound 6d:

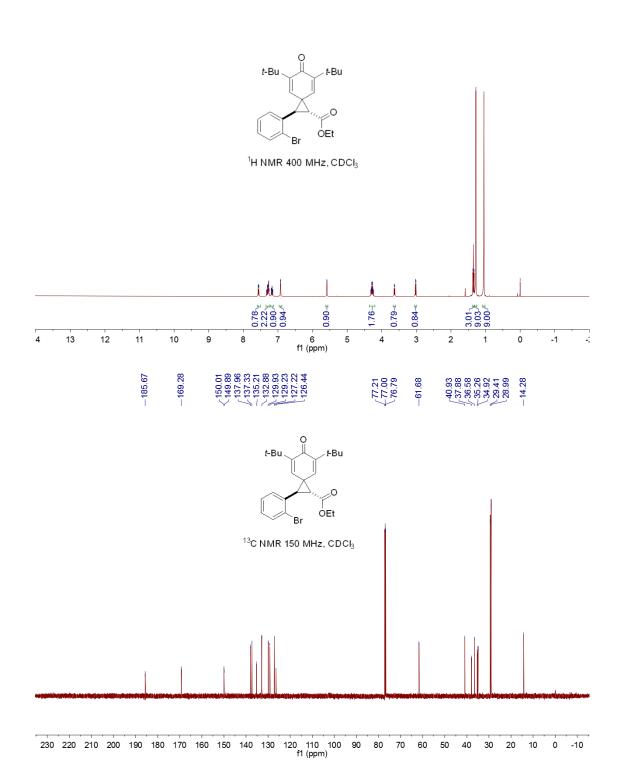
#### 7.139 7.719 6.6877 6.8877 6.8877 6.8877 6.8877 6.8877 7.096 6.8778 7.278 7.278 7.278 7.236



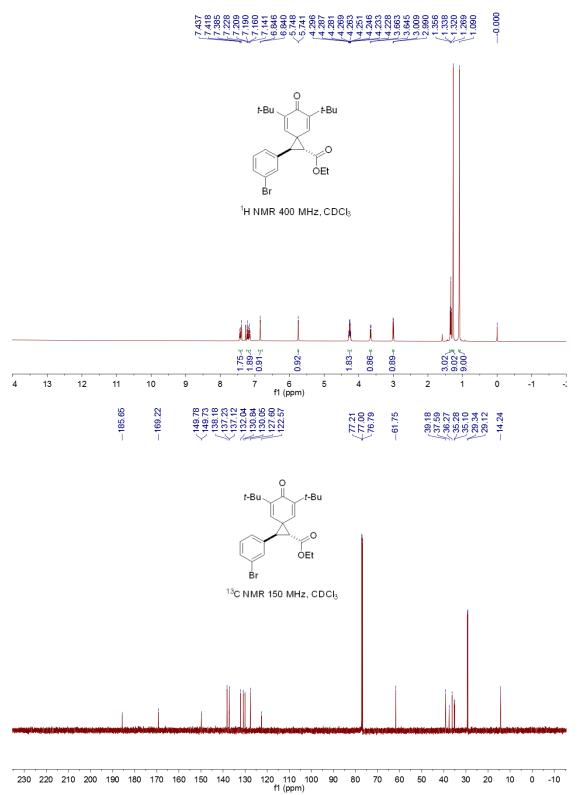


### NMR copies of compound 6e:



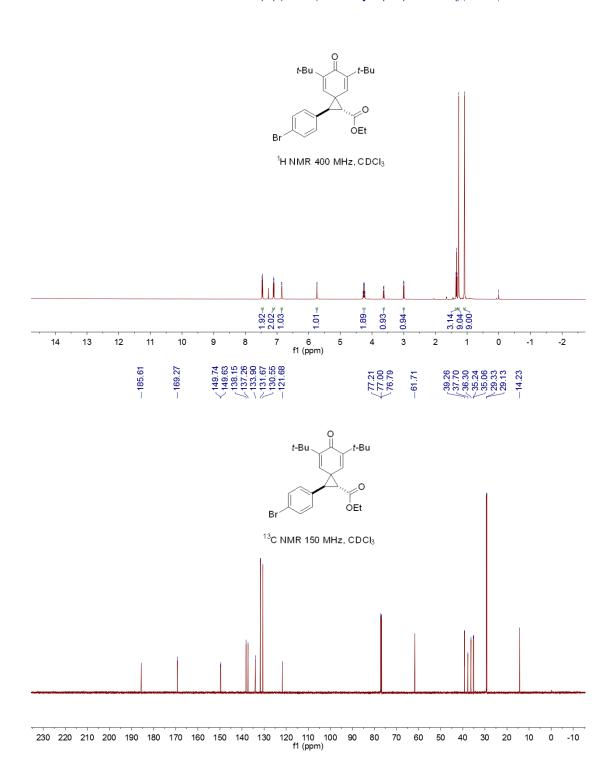


### NMR copies of compound 6f:



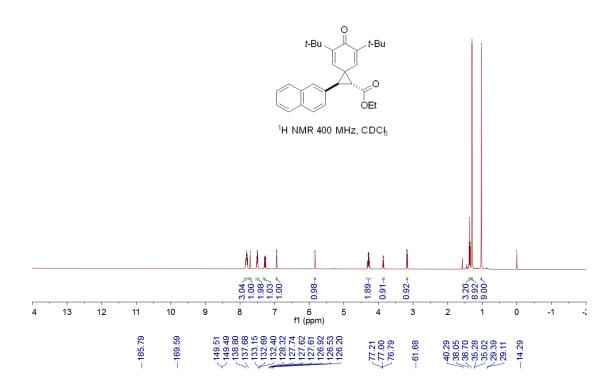
### NMR copies of compound 6g:

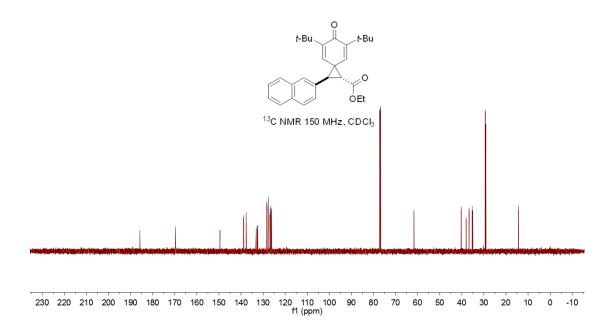




### NMR copies of compound 6h:

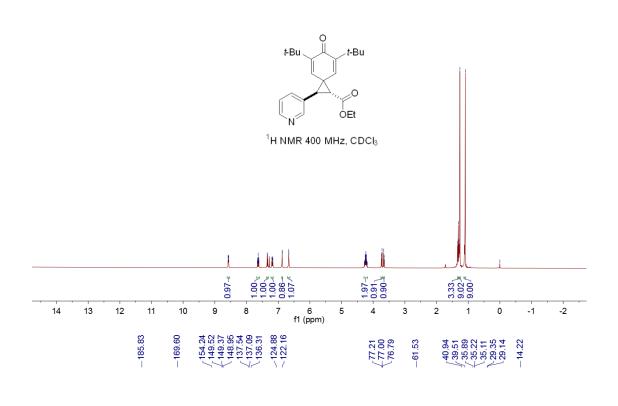
#### 7.84 7.788 7.7788 7.7788 7.7788 7.7509 7.7490 7.7490 7.7490 7.729

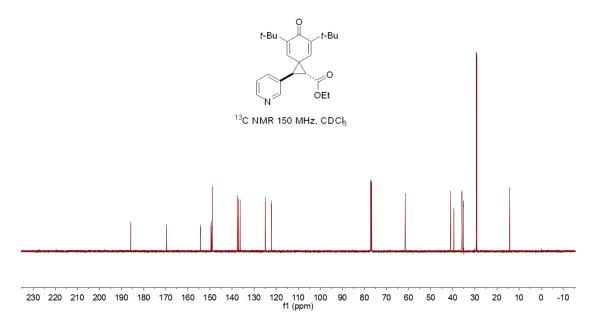




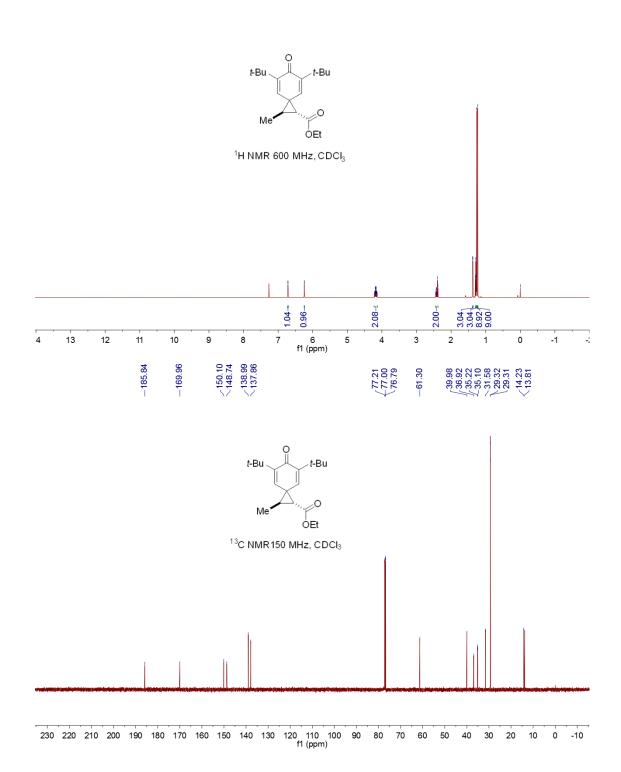
### NMR copies of compound 6i:





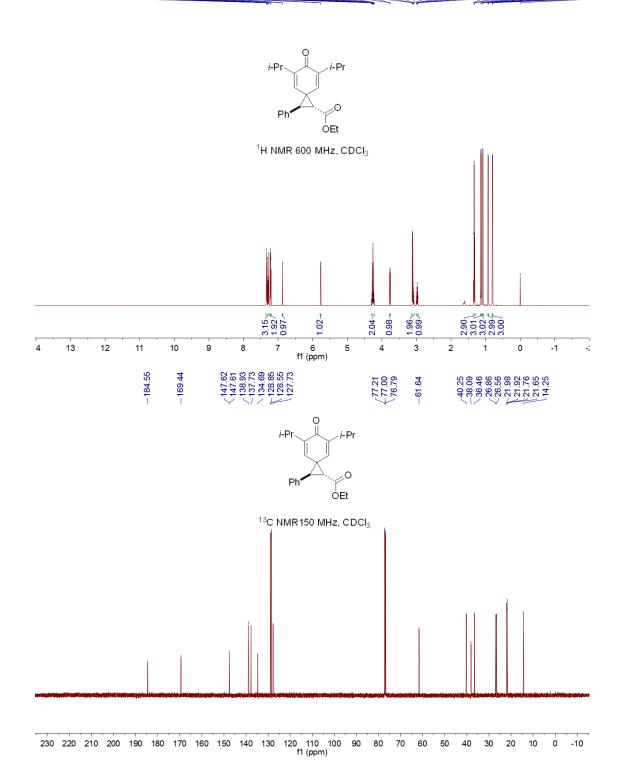


### NMR copies of compound 6j:

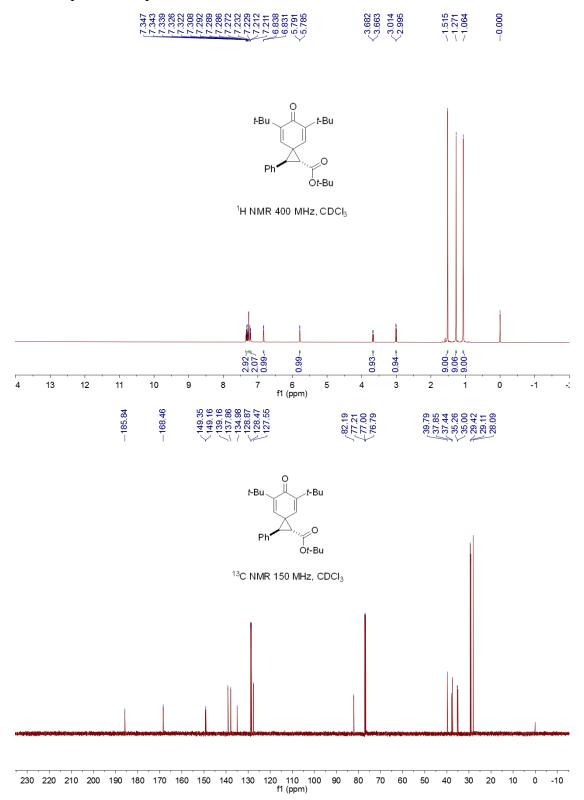


### NMR copies of compound 6k:

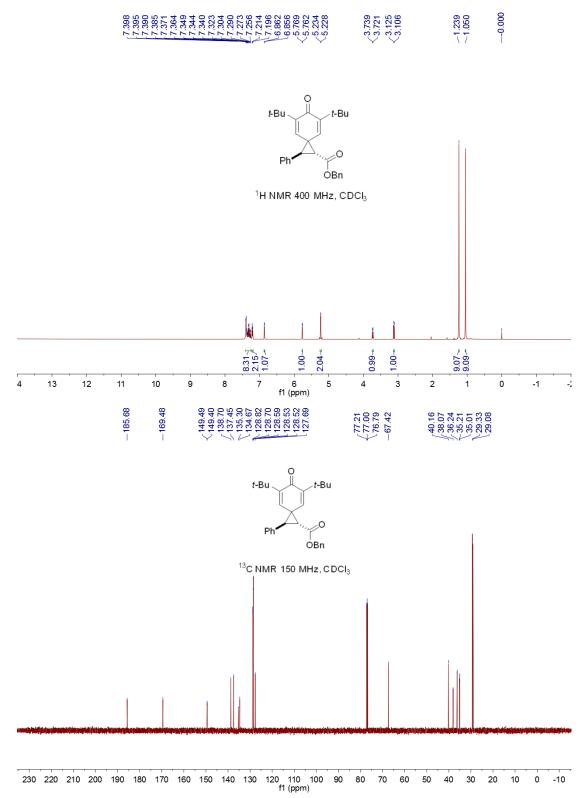
# 



### NMR copies of compound 61:



### NMR copies of compound 6m:



### NMR copies of compound 6n:

