

SÍNTESE DE DERIVADOS 4-ARIL-3,4-DI-HIDROCUMARÍNICOS CATALISADA POR NbCl₅

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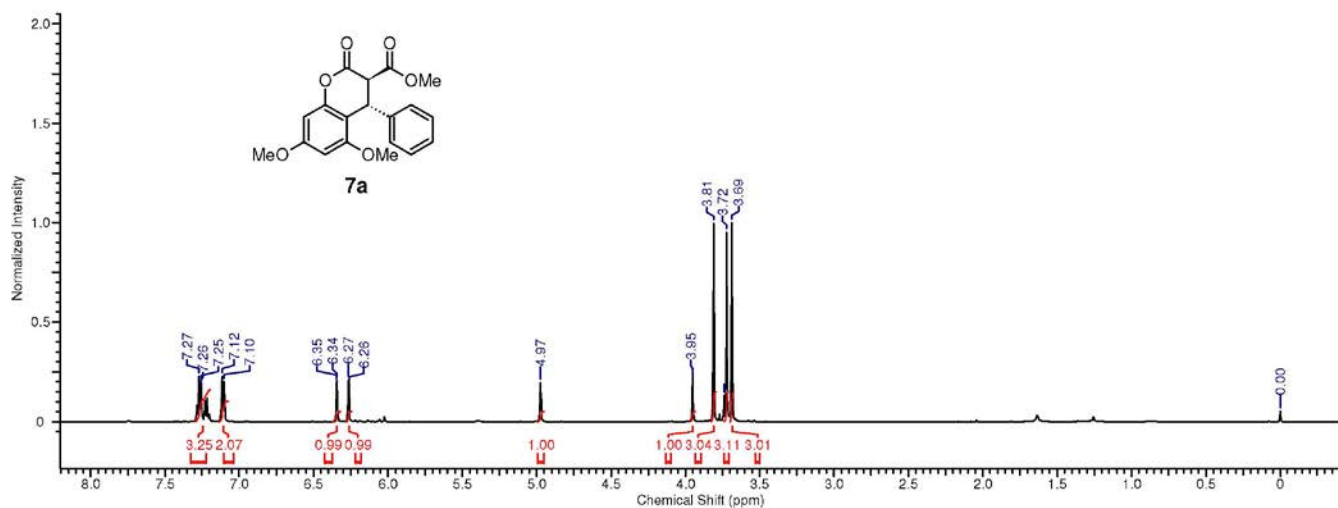


Figura 1S. Espectro de RMN ¹H do composto 7a

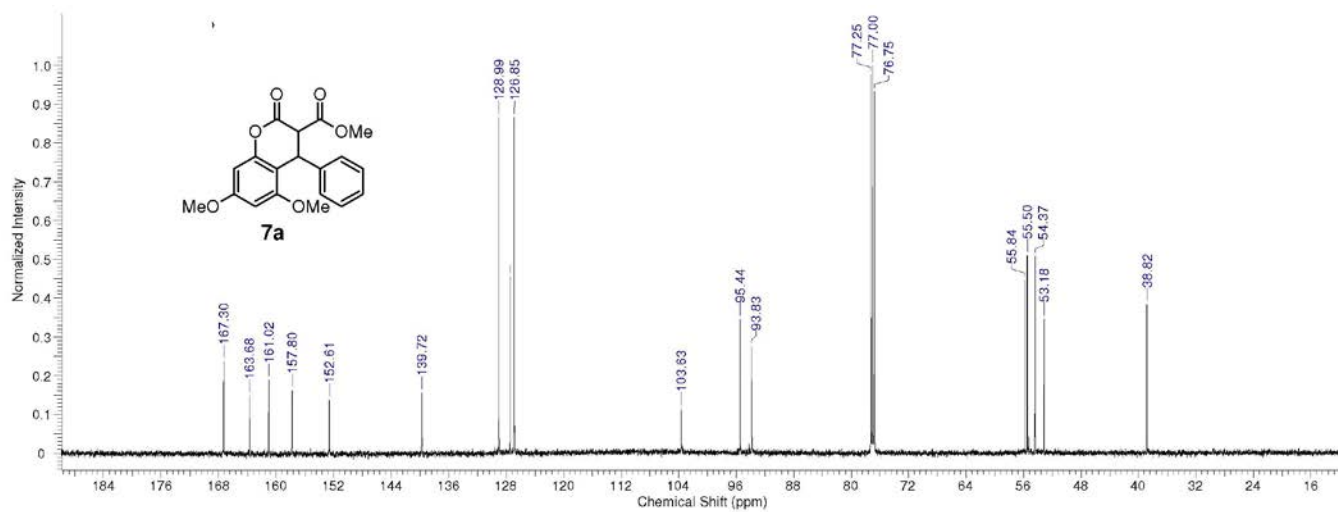


Figura 2S. Espectro de RMN ¹³C do composto 7a

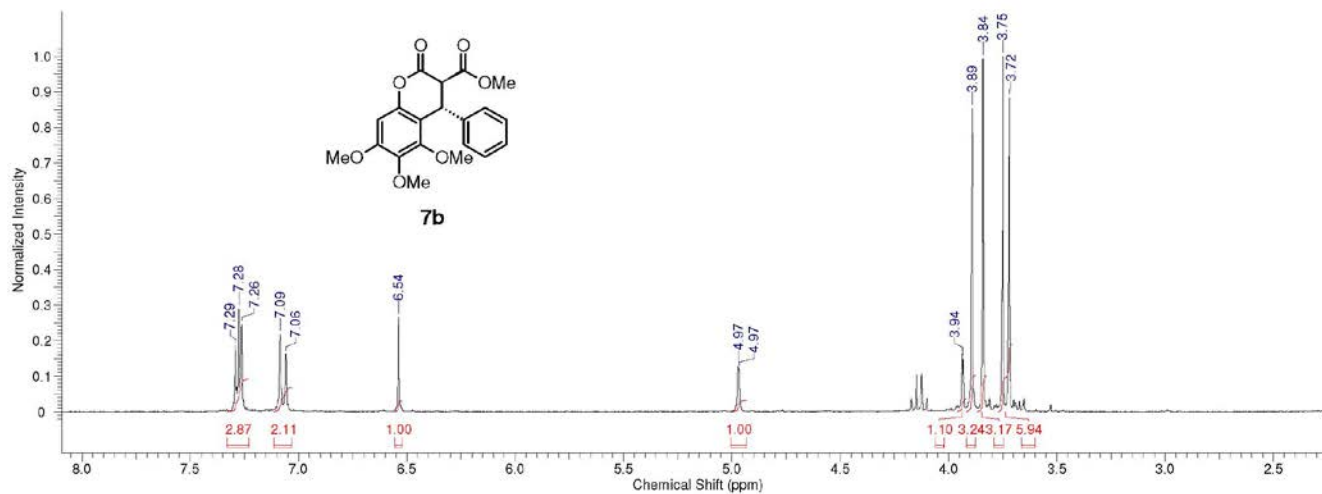


Figura 3S. Espectro de RMN ^1H do composto **7b**

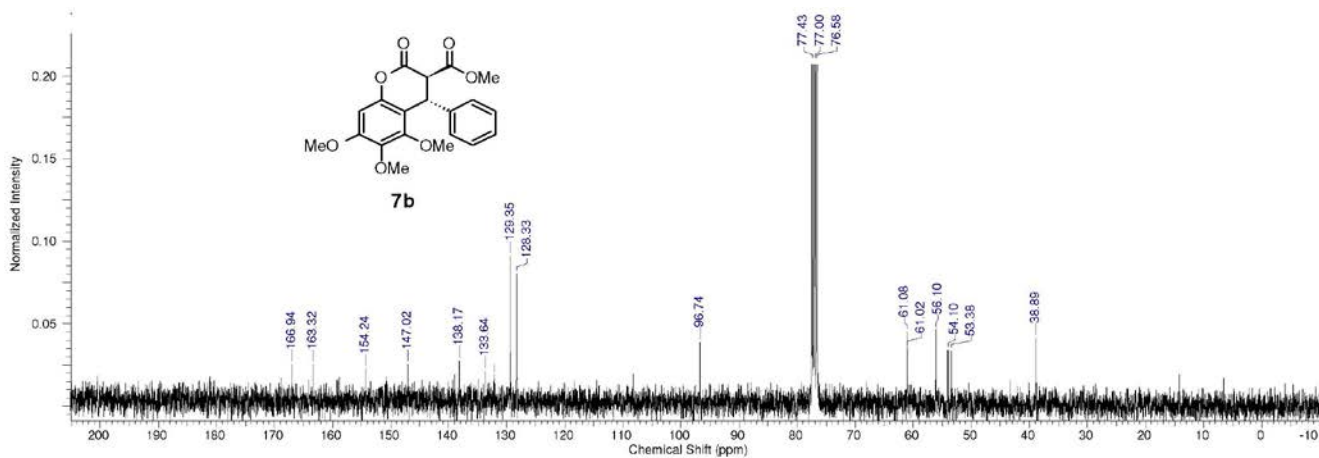


Figura 4S. Espectro de RMN ^{13}C do composto **7b**

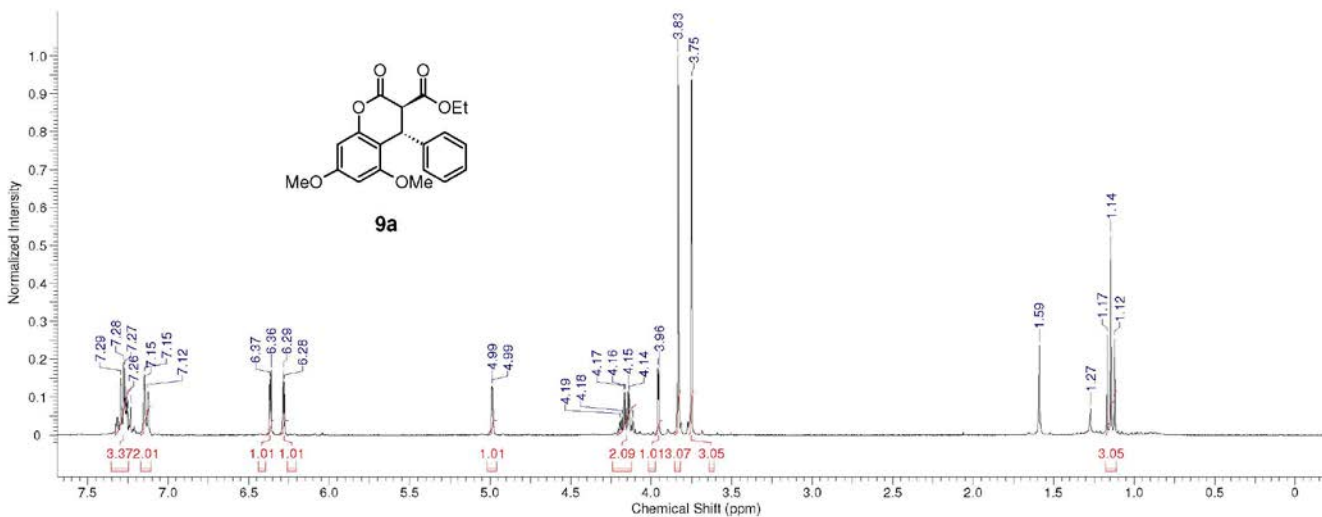
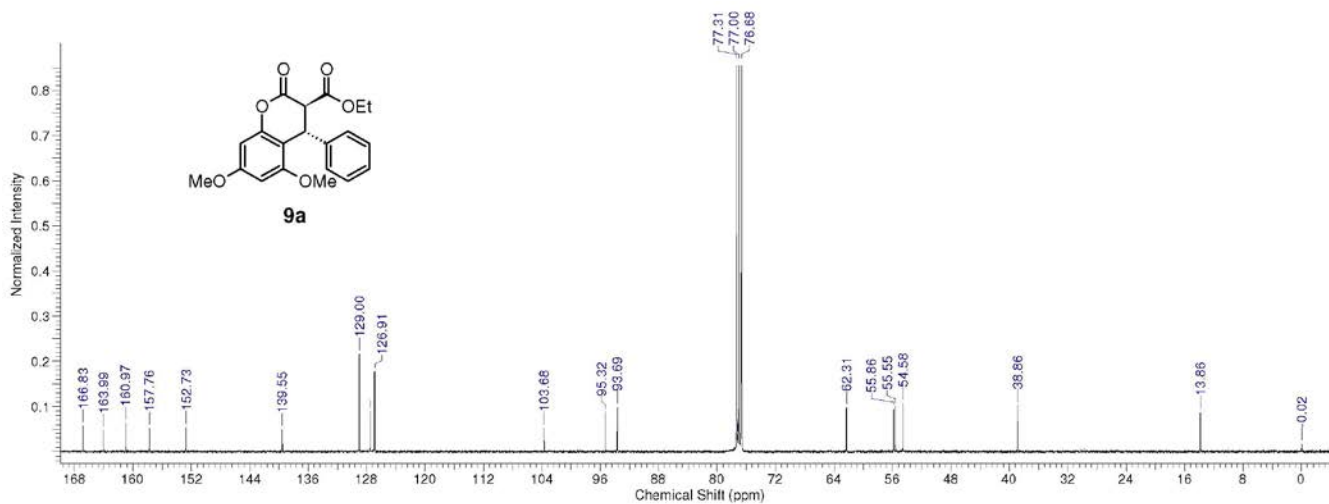
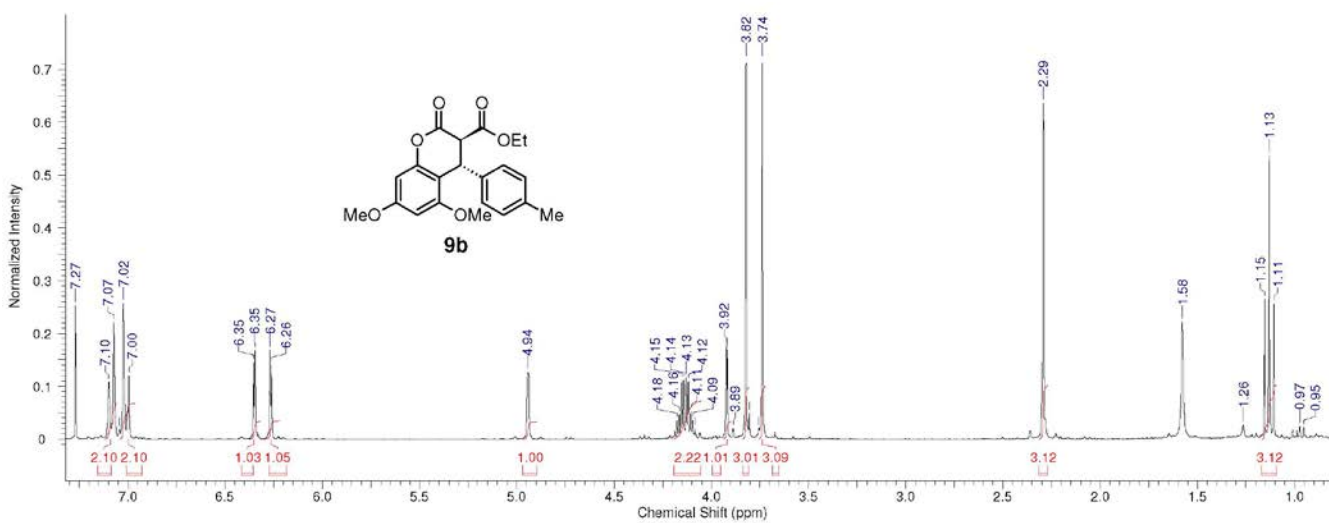
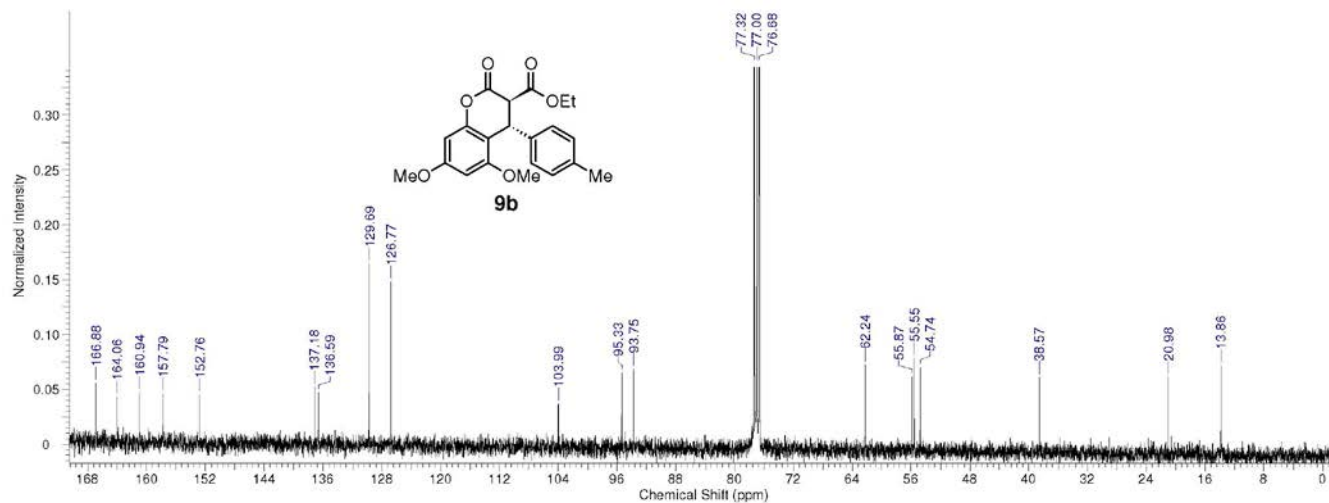


Figura 5S. Espectro de RMN ^1H do composto **9a**

Figura 6S. Espectro de RMN ¹³C do composto **9a**Figura 7S. Espectro de RMN ¹H do composto **9b**Figura 8S. Espectro de RMN ¹³C do composto **9b**

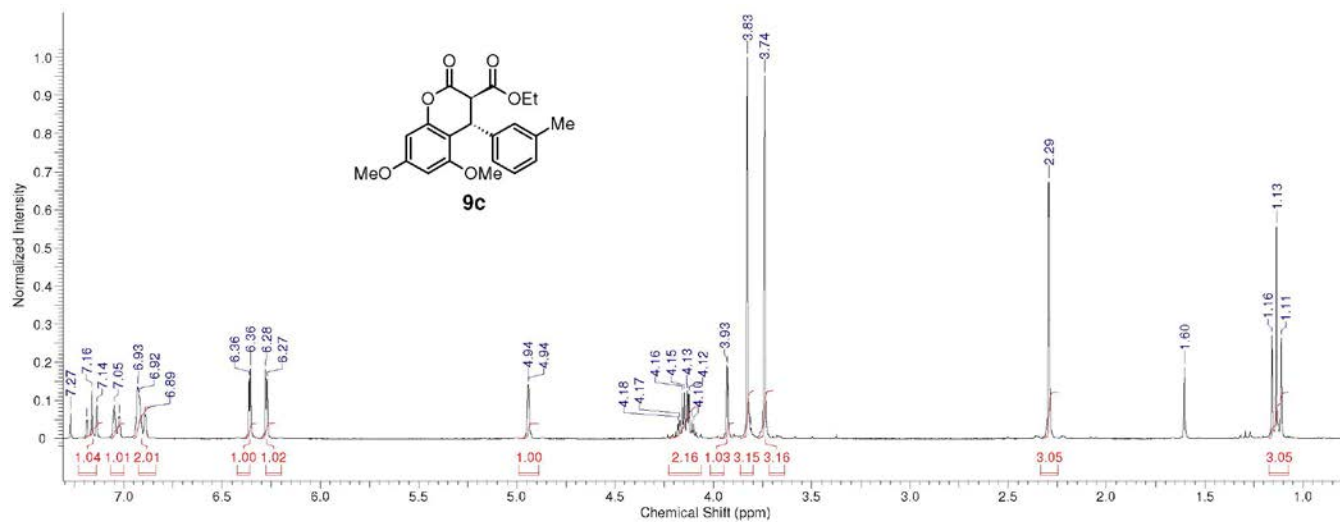


Figura 9S. Espectro de RMN ¹H do composto **9c**

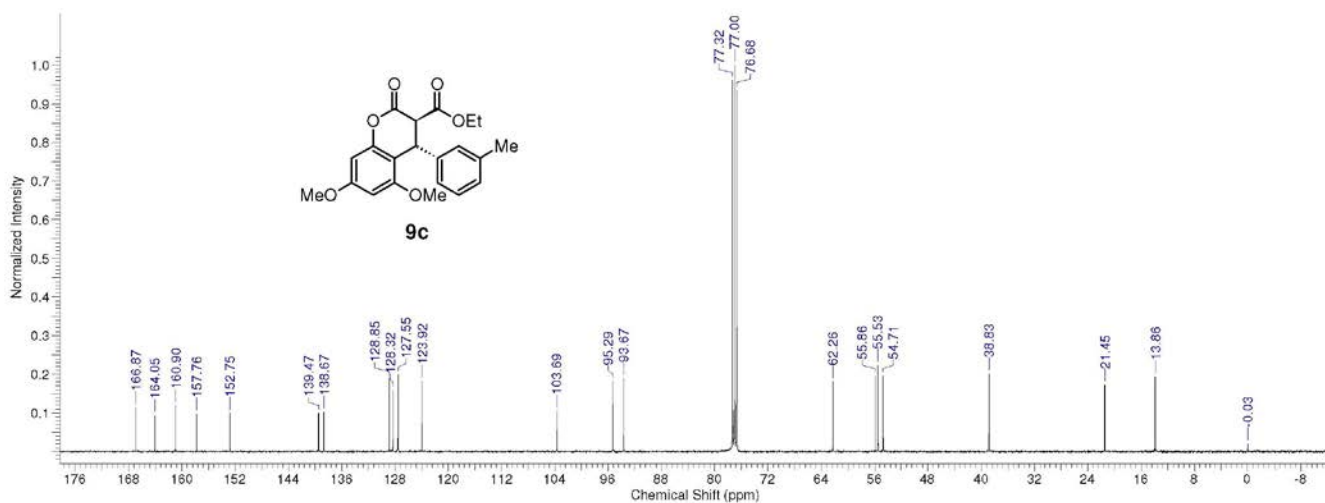


Figura 10S. Espectro de RMN ¹³C do composto **9c**

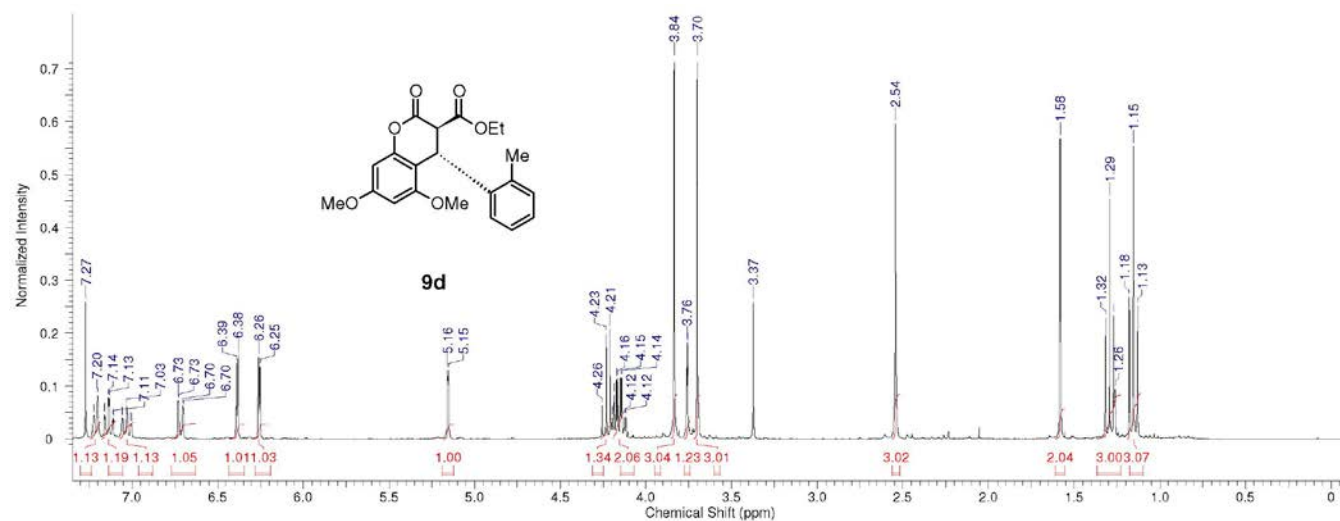
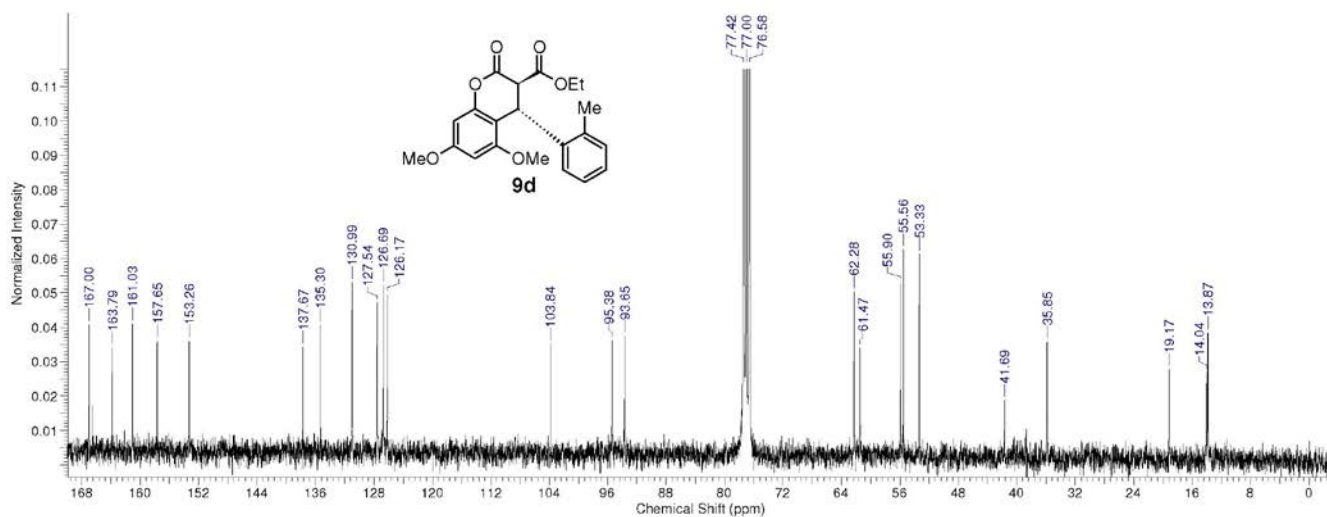
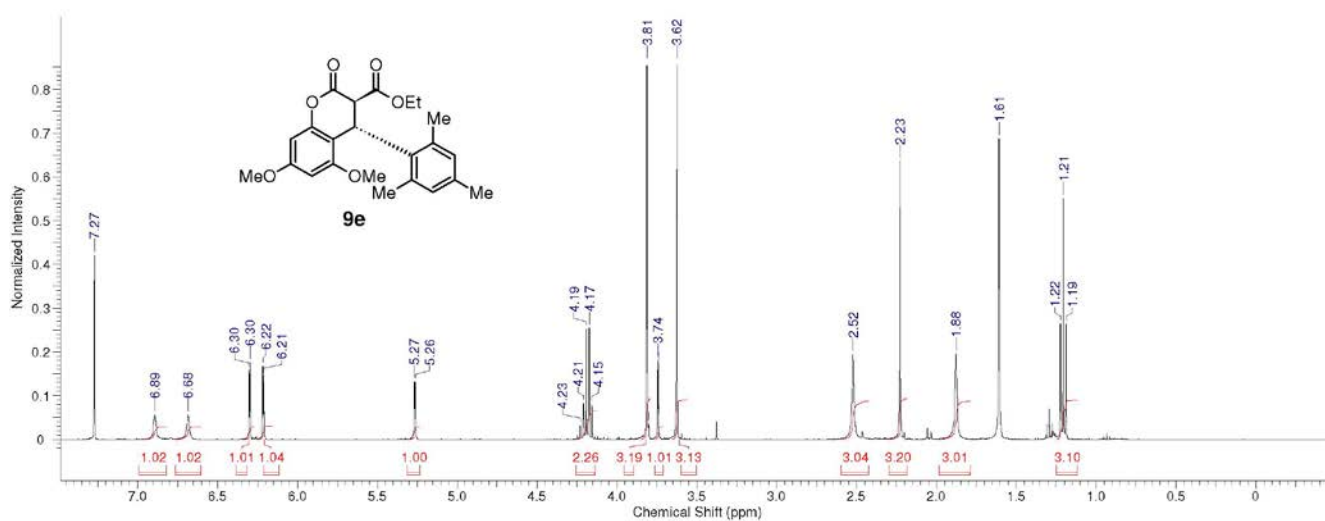
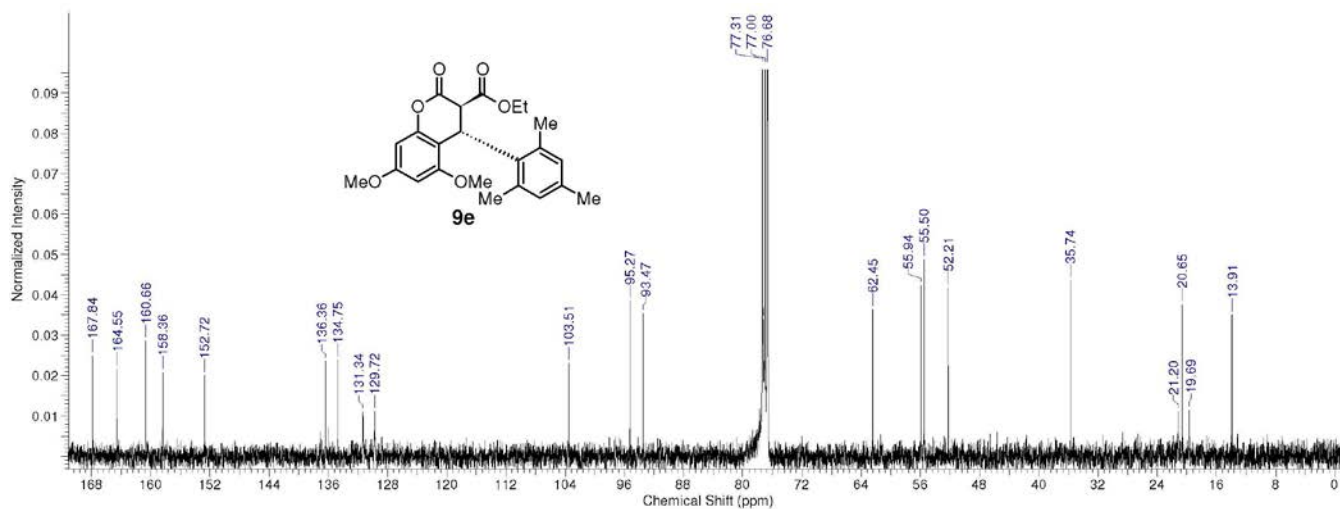


Figura 11S. Espectro de RMN ¹H do composto **9d**

Figura 12S. Espectro de RMN ¹³C do composto **9d**Figura 13S. Espectro de RMN ¹H do composto **9e**Figura 14S. Espectro de RMN ¹³C do composto **9e**

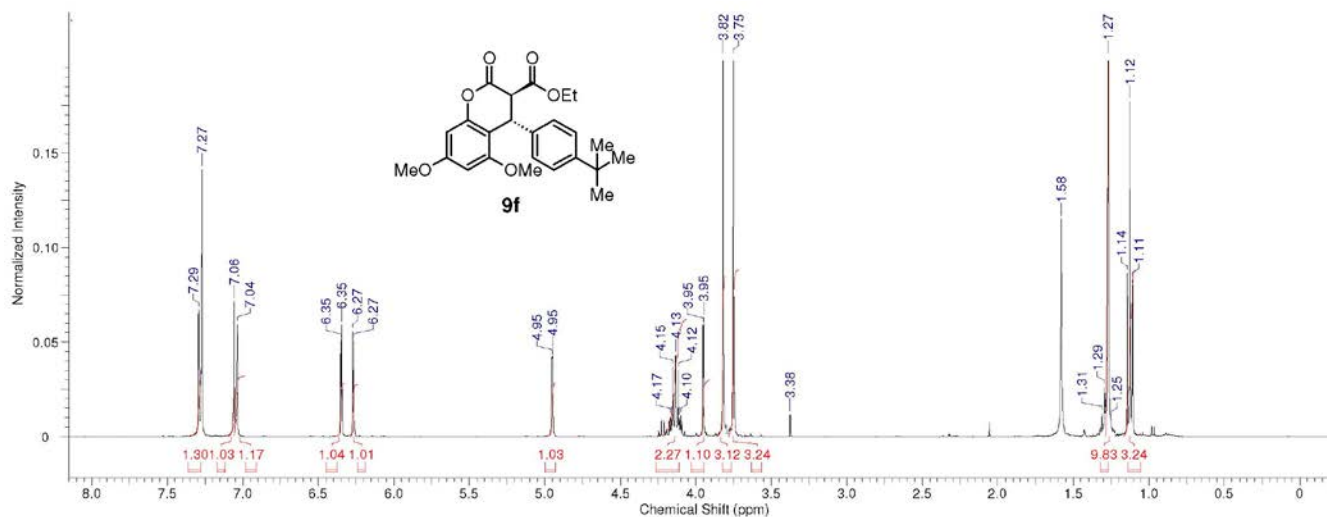


Figura 15S. Espectro de RMN ^1H do composto **9f**

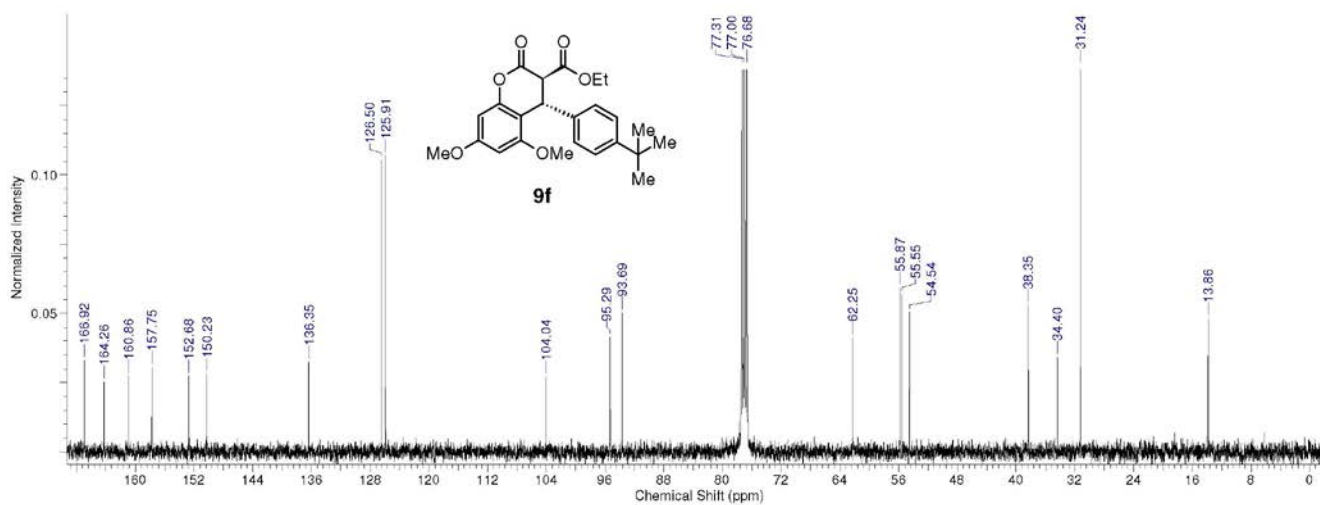


Figura 16S. Espectro de RMN ^{13}C do composto **9f**

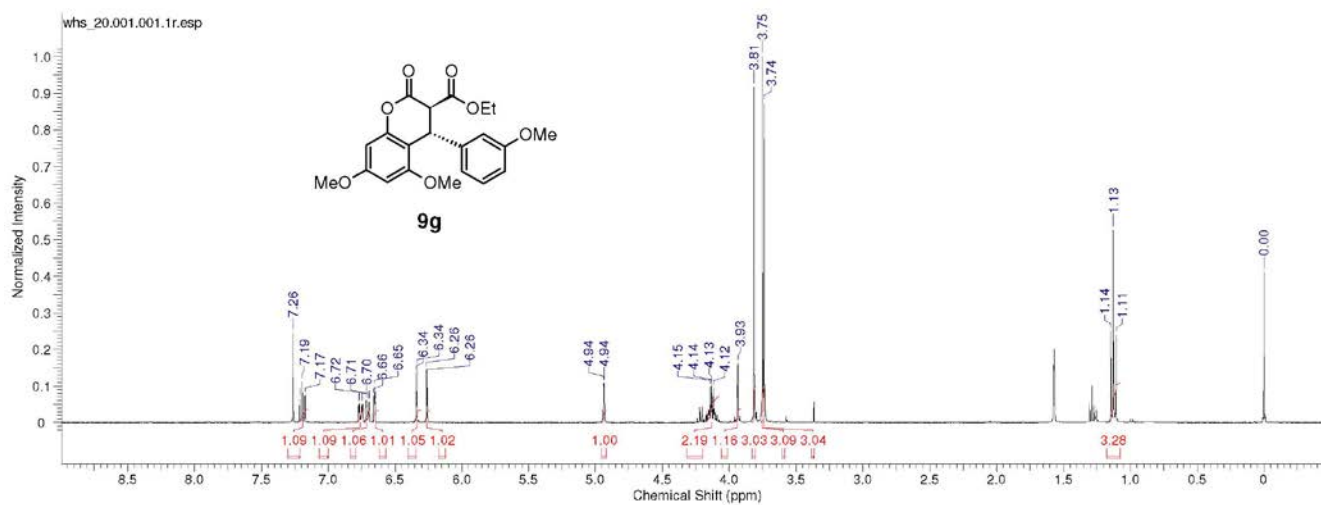
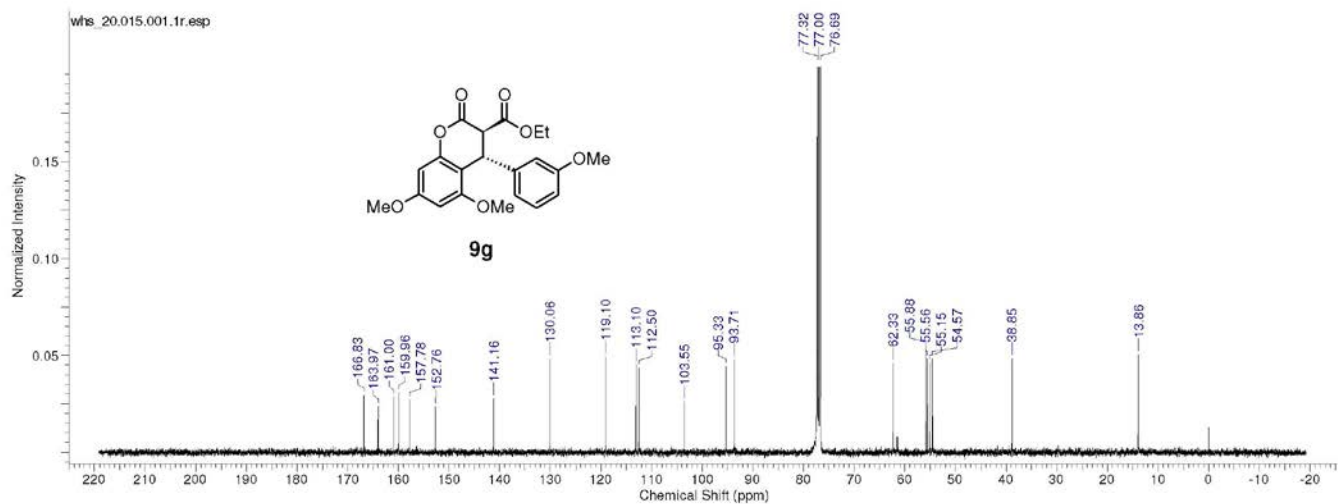
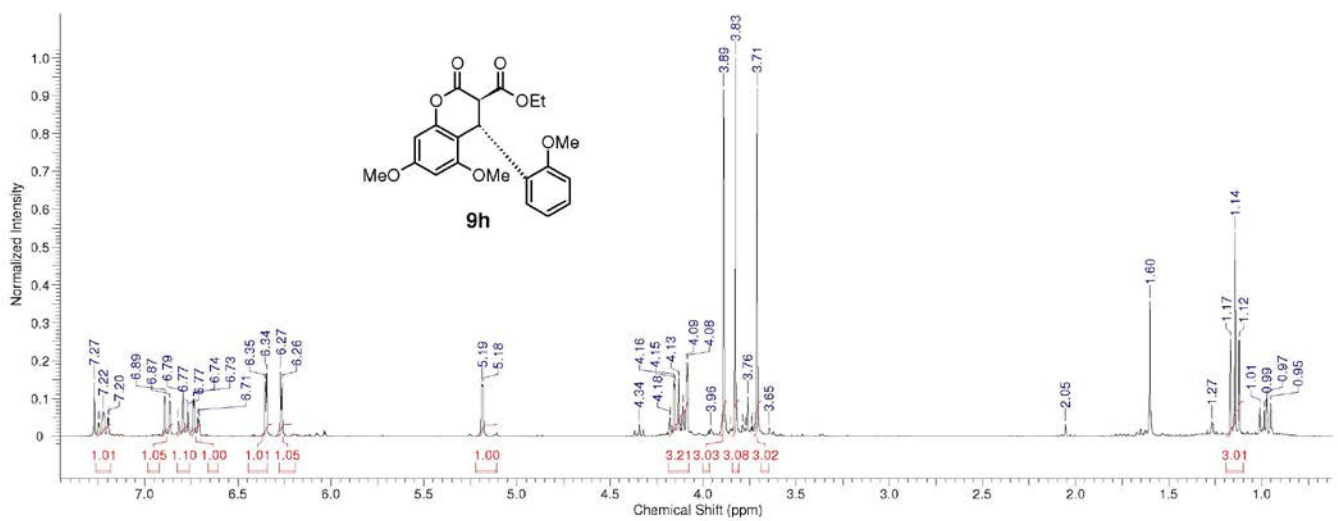
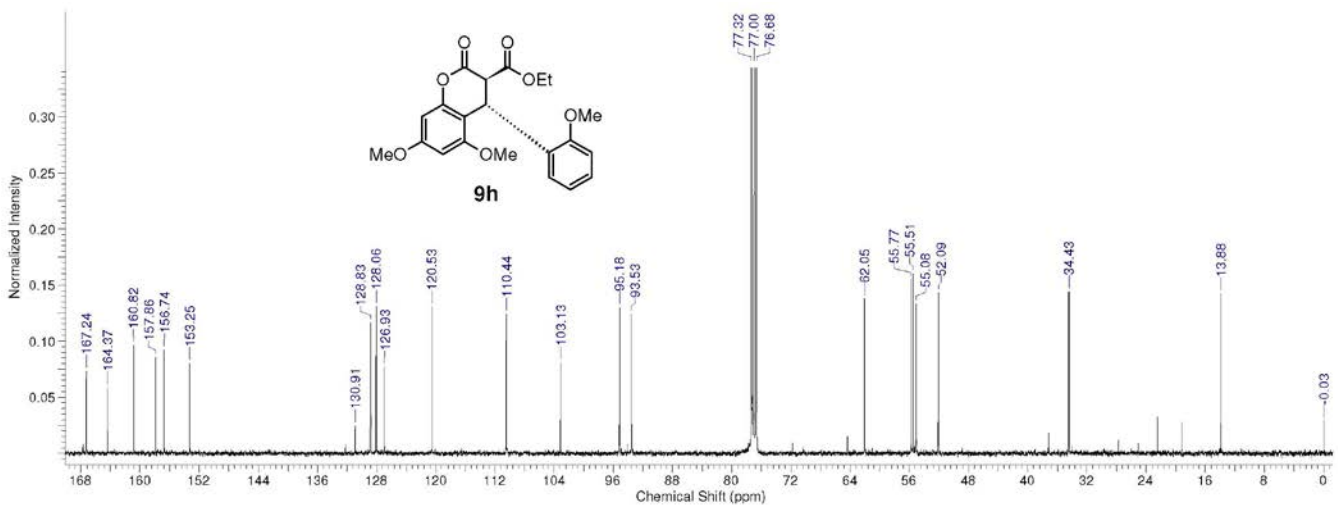


Figura 17S. Espectro de RMN ^1H do composto **9g**

Figura 18S. Espectro de RMN ¹³C do composto **9g**Figura 19S. Espectro de RMN ¹H do composto **9h**Figura 20S. Espectro de RMN ¹³C do composto **9h**

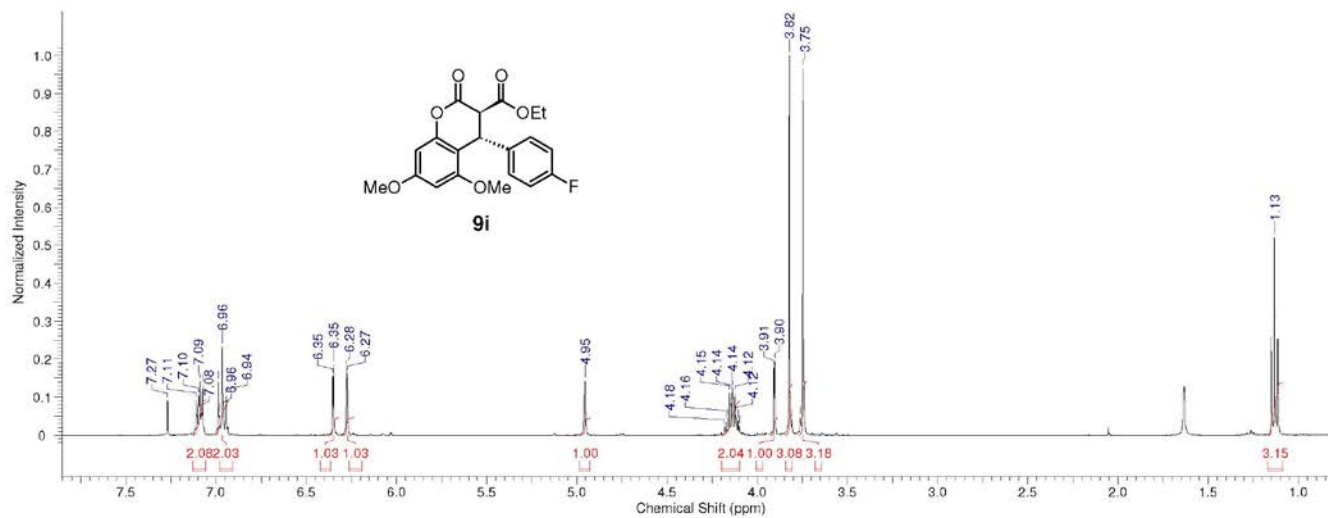


Figura 21S. Espectro de RMN ^1H do composto **9i**

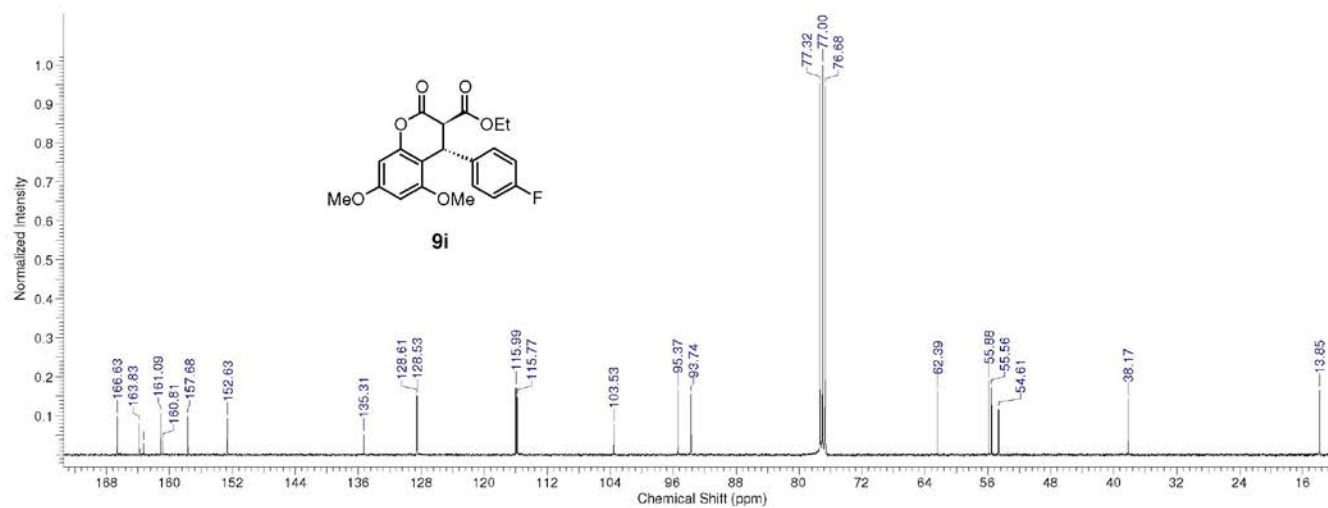


Figura 22S. Espectro de RMN ^{13}C do composto **9i**

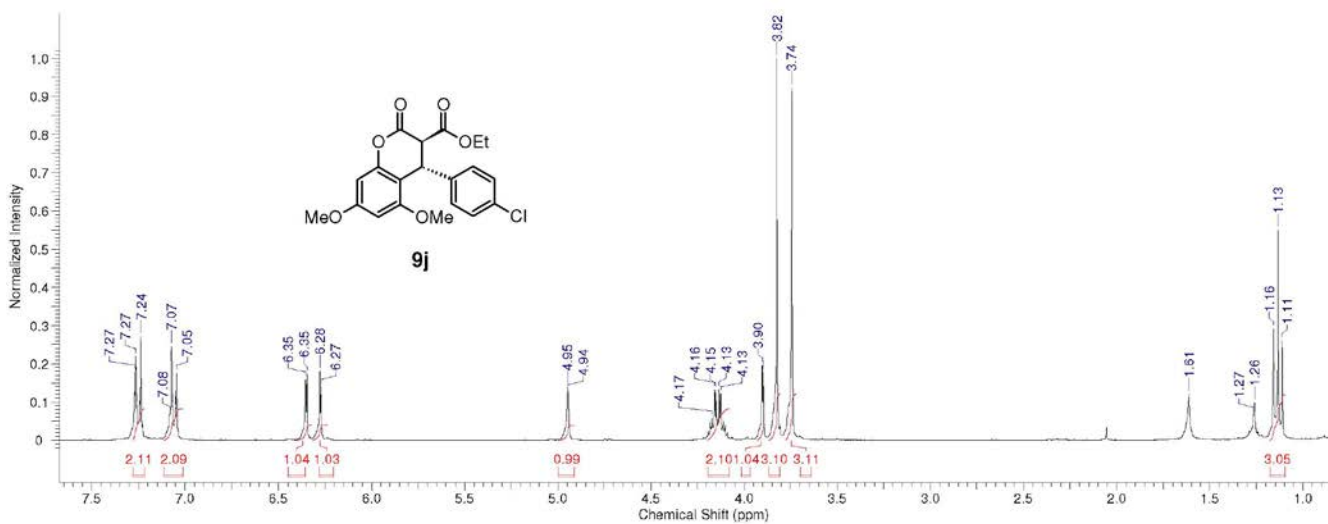
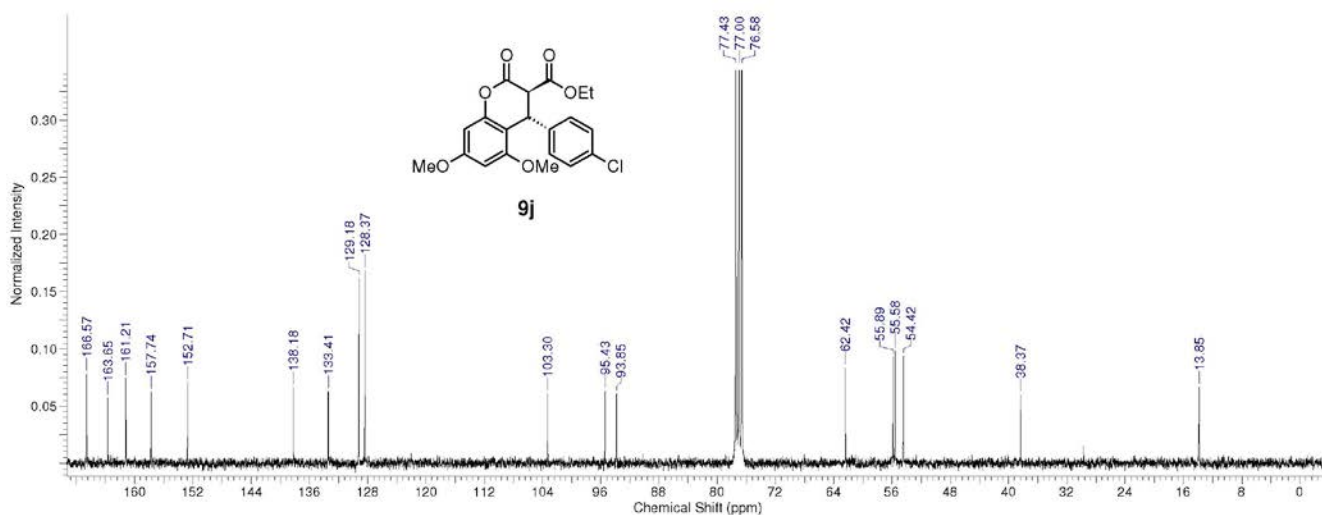
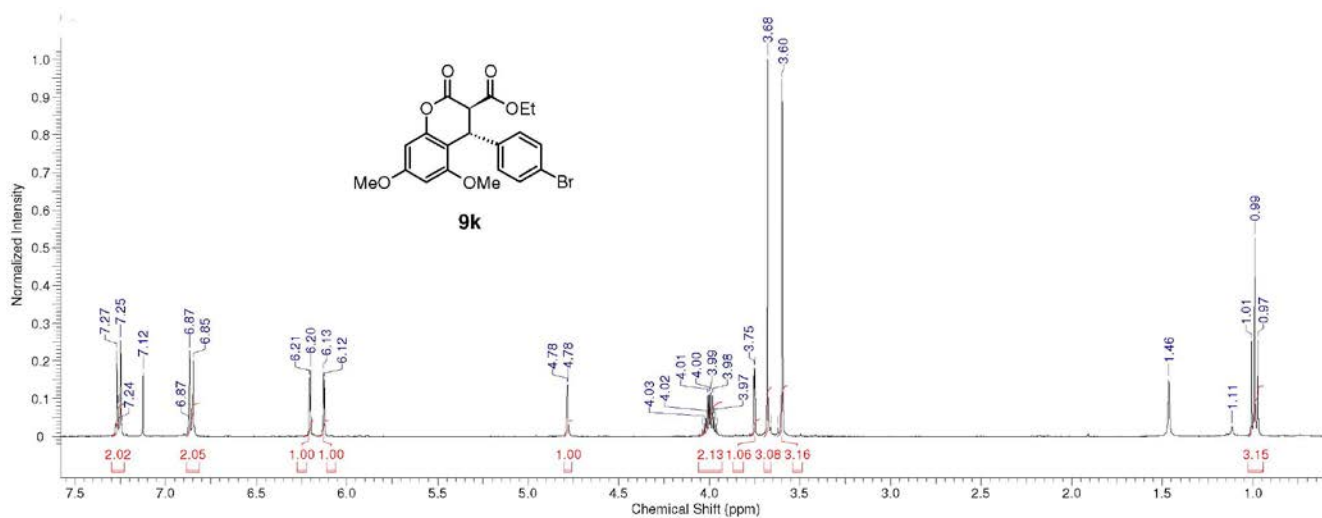
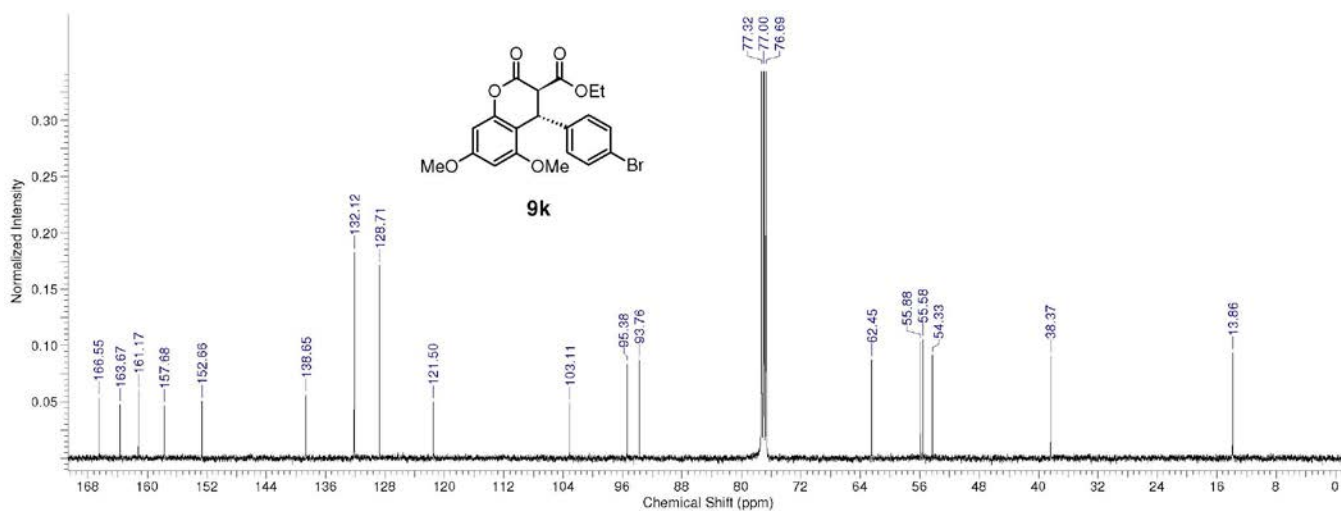


Figura 23S. Espectro de RMN ^1H do composto **9j**

Figura 24S. Espectro de RMN ¹³C do composto **9j**Figura 25S. Espectro de RMN ¹H do composto **9k**Figura 26S. Espectro de RMN ¹³C do composto **9k**