

## Supplementary Material

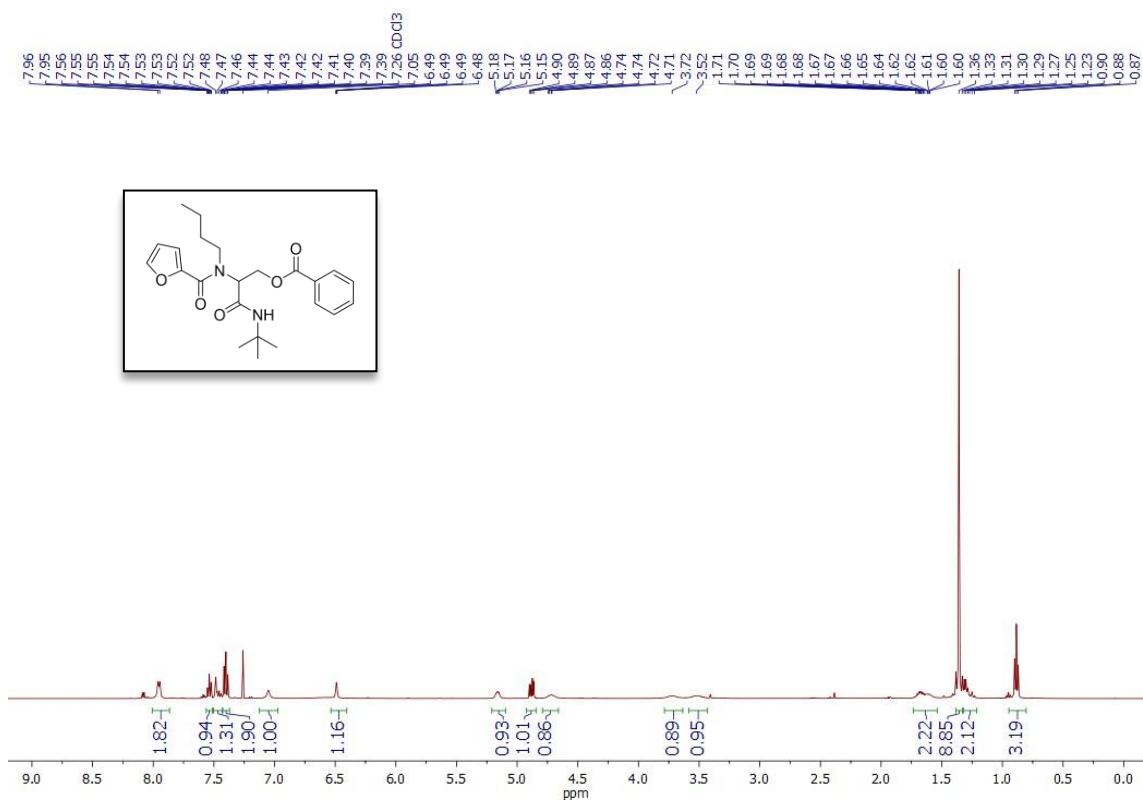
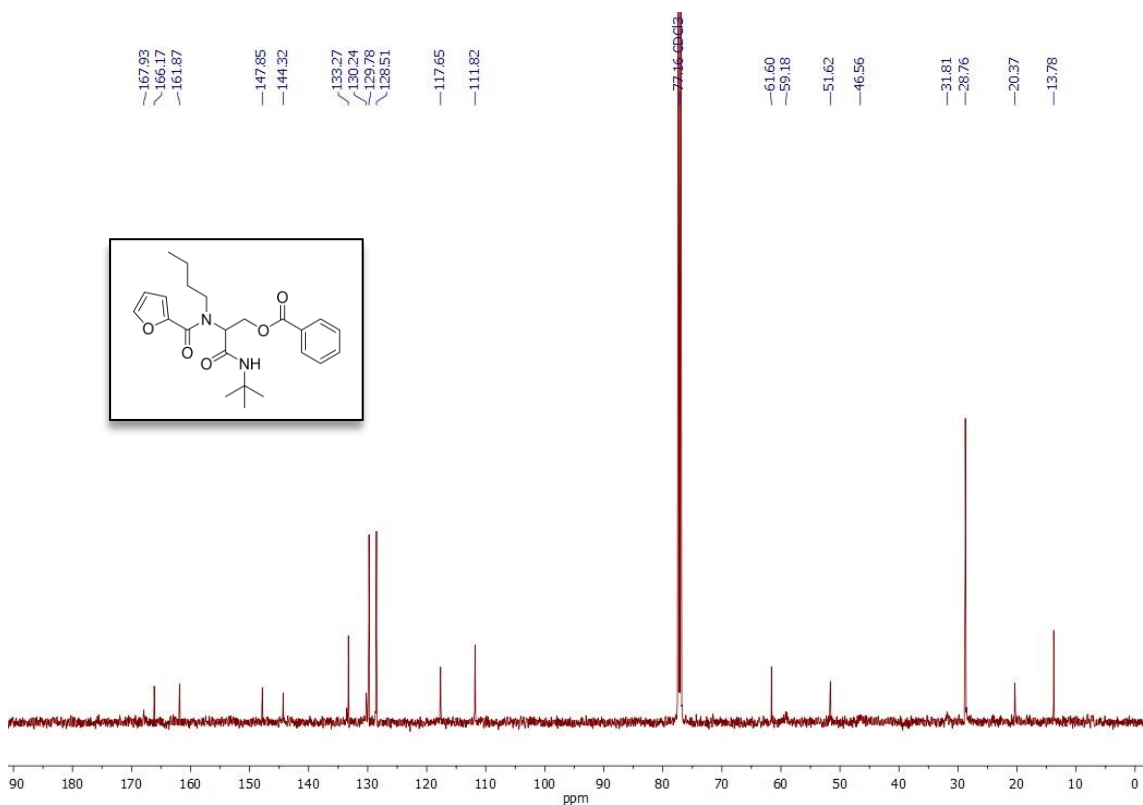
### Photoredox catalyzed radical conjugate addition to Ugi-derived dehydroalanines toward the synthesis of $\beta$ -heteroaryl $\alpha$ -amino acids

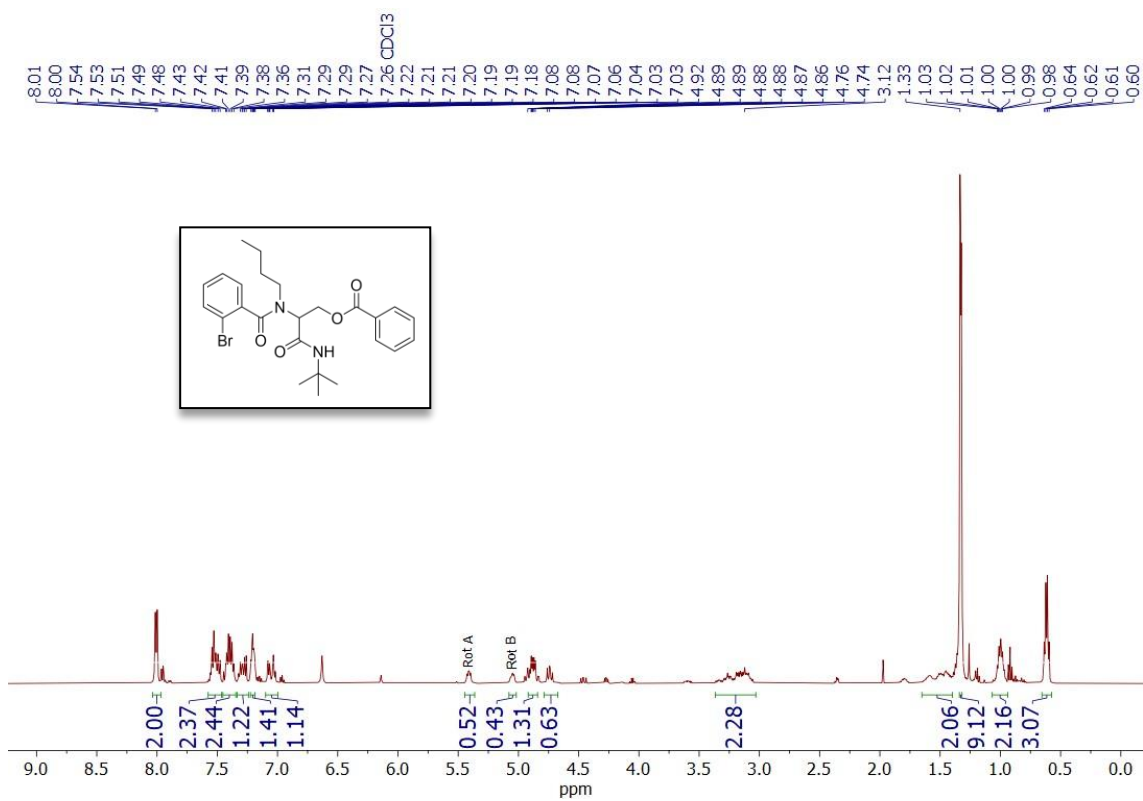
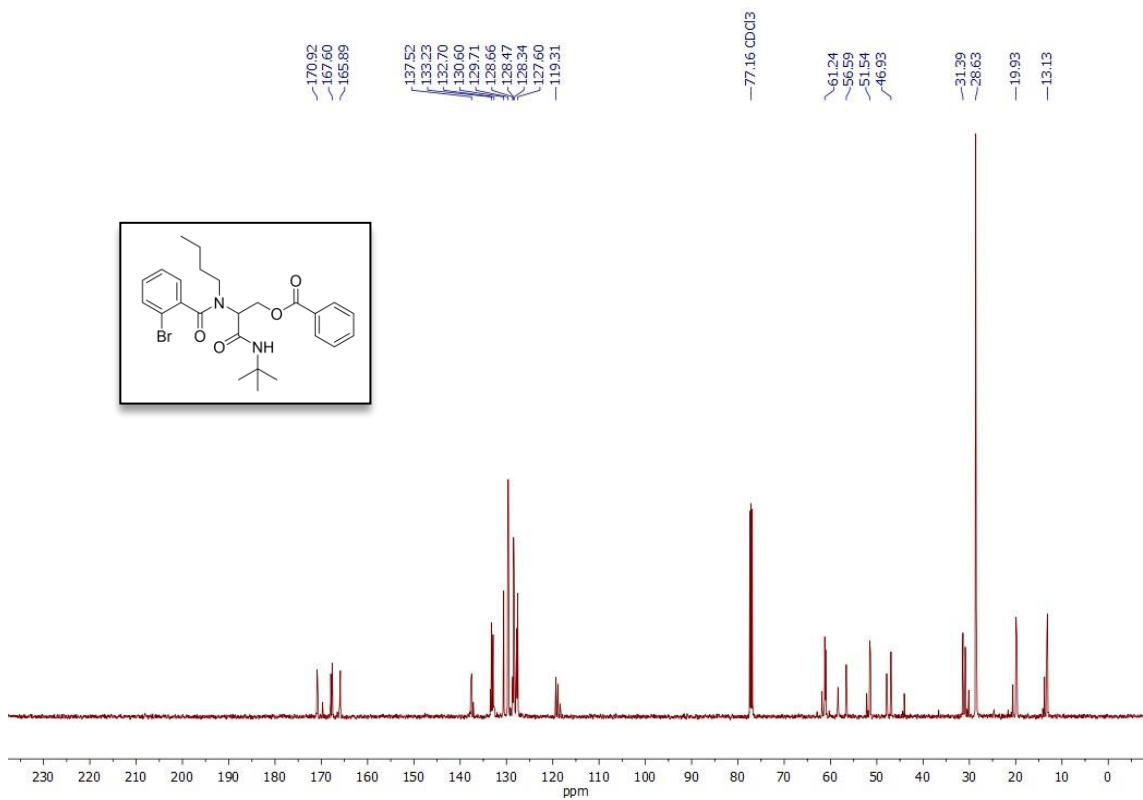
Alejandro Martínez-Zaldívar, Gustavo G. Flores-Bernal, Diego Alemán-Ponce de León, and Luis D. Miranda\*

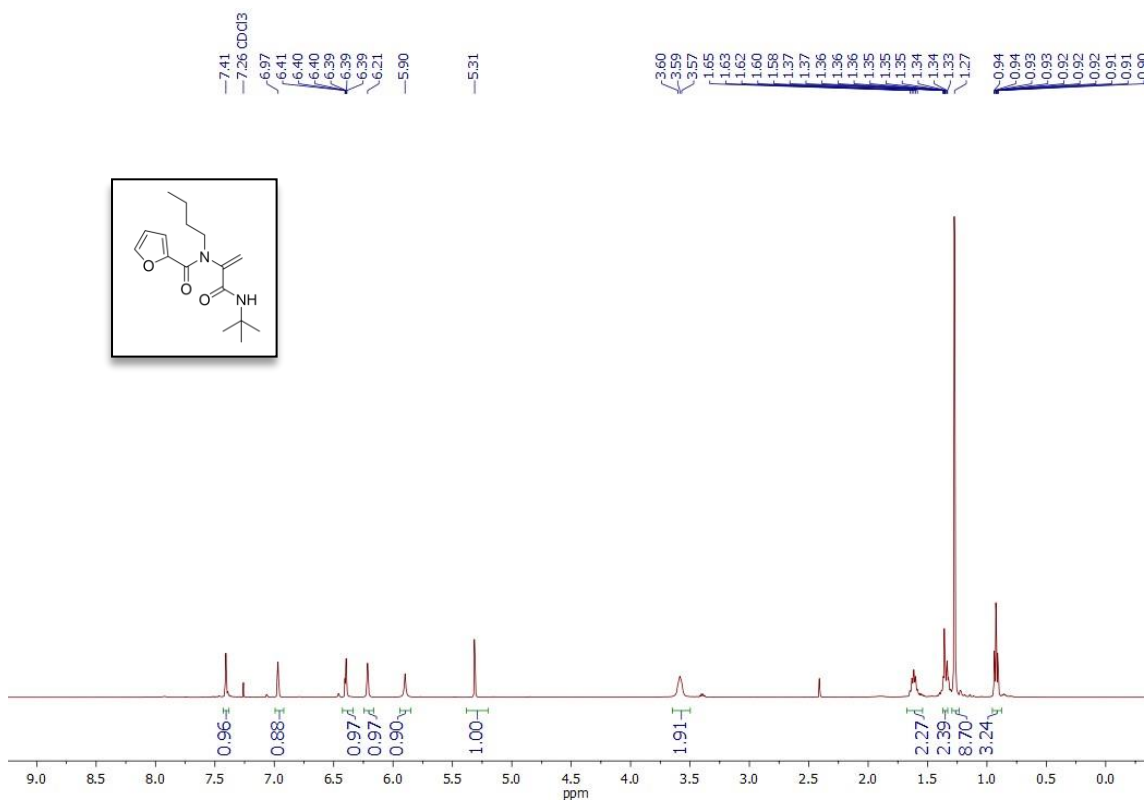
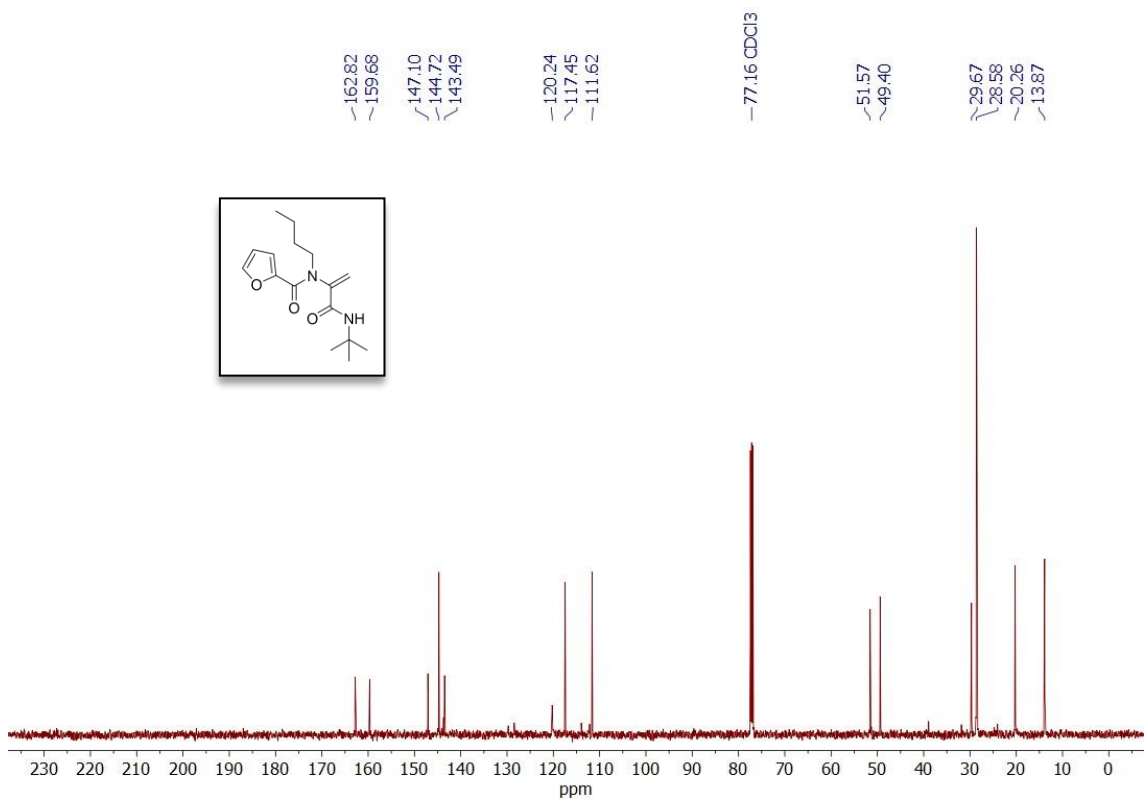
*Instituto de Química, Universidad Nacional Autónoma de México, Circuito Exterior, Ciudad Universitaria, 04510 Ciudad de Mexico, Mexico*  
Email: [lmiranda@unam.mx](mailto:lmiranda@unam.mx)

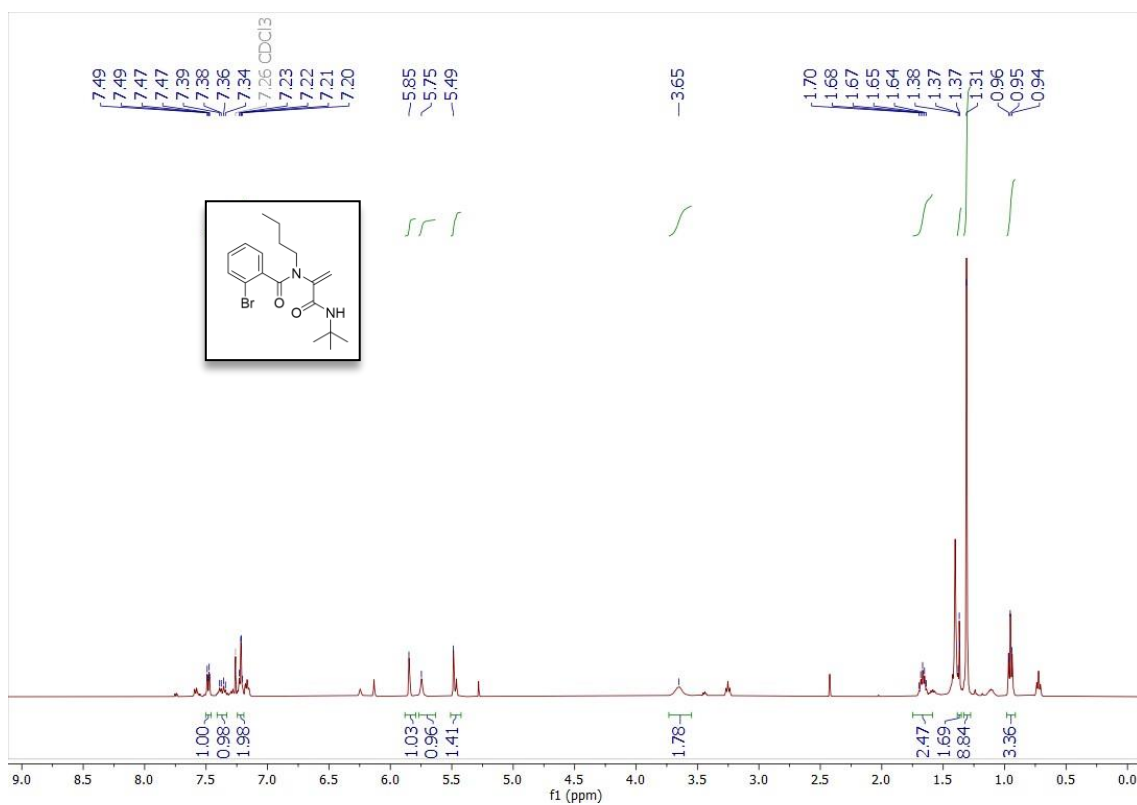
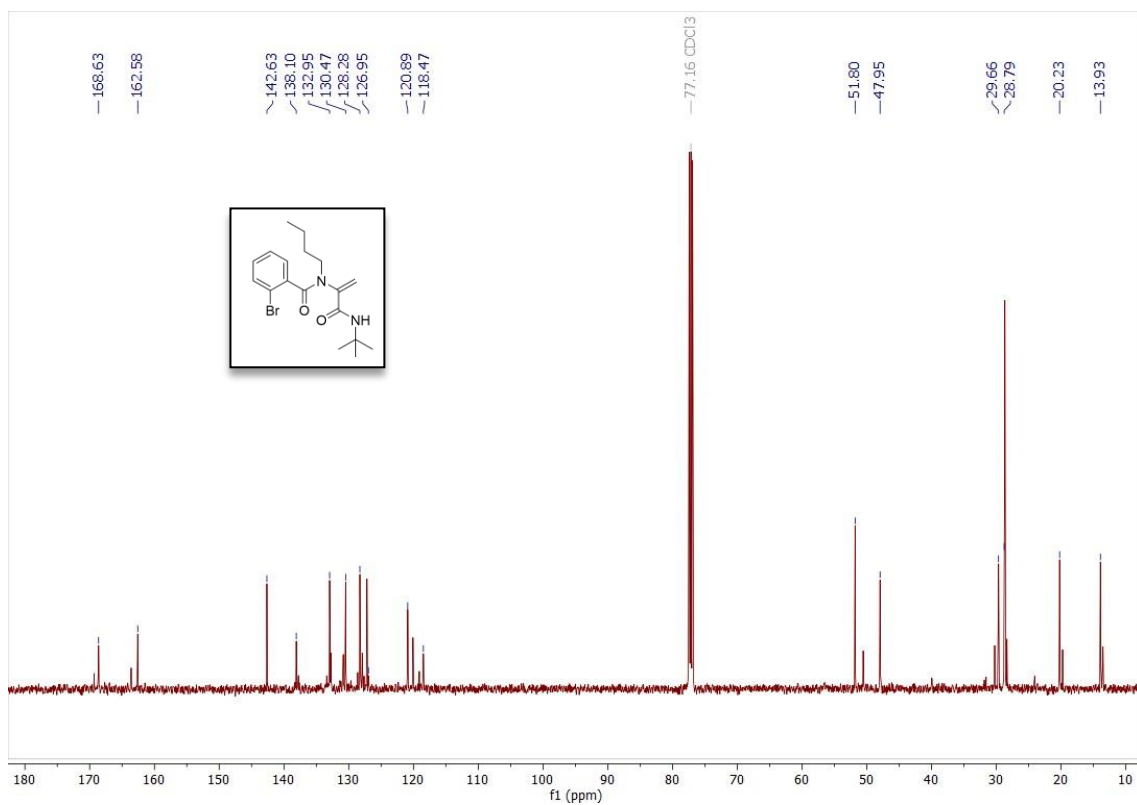
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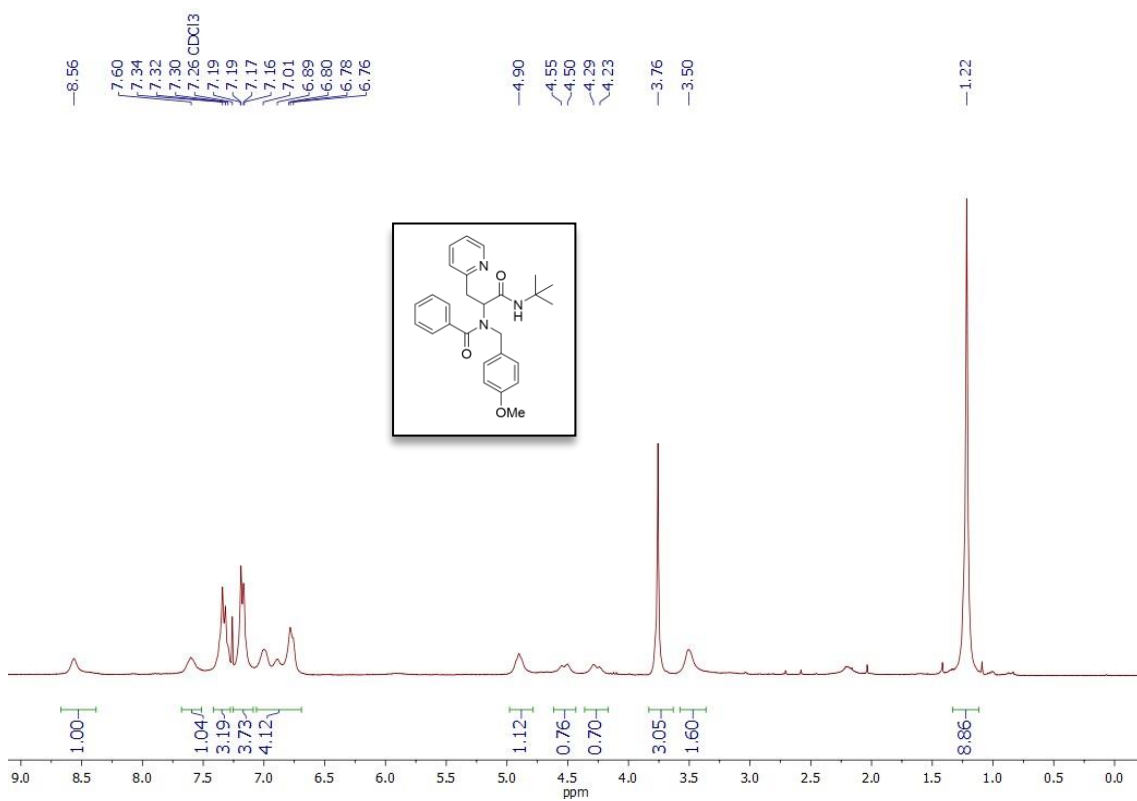
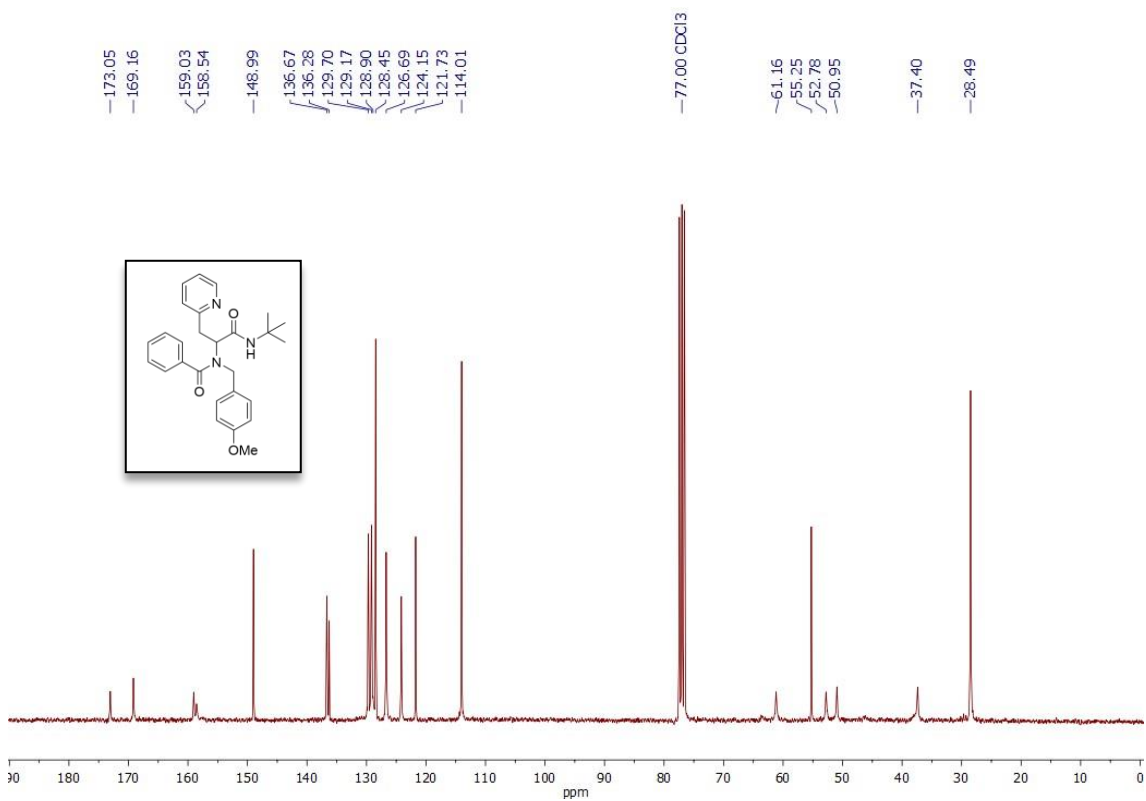
$^1\text{H}$ and $^{13}\text{C}$ NMR spectra.....	S2
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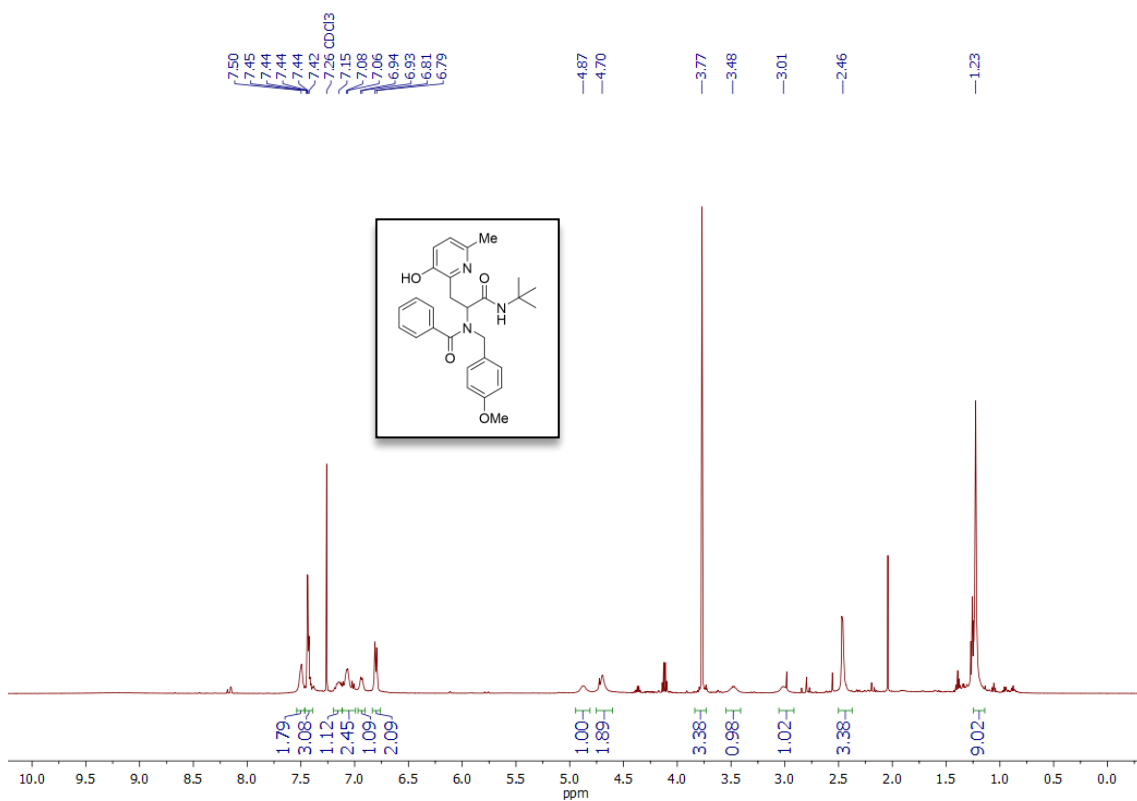
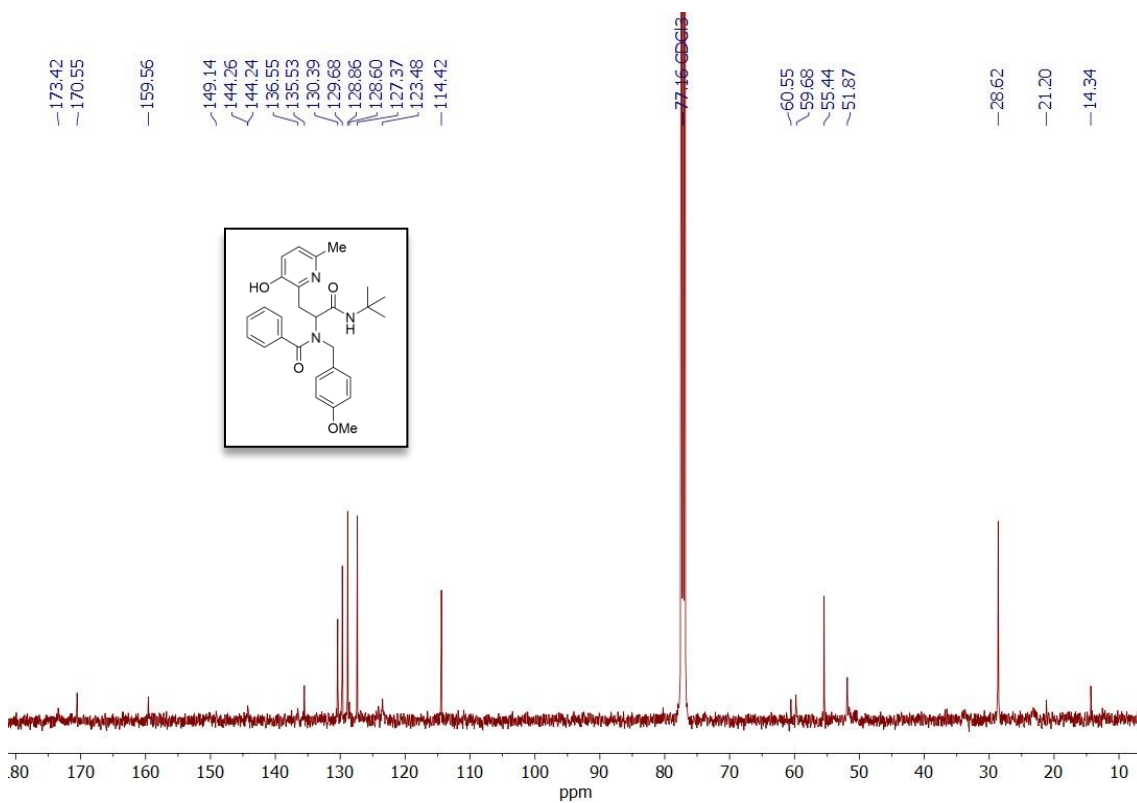
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) of **1f** $^{13}\text{C}$  NMR (125 MHz,  $\text{CDCl}_3$ ) of **1f**

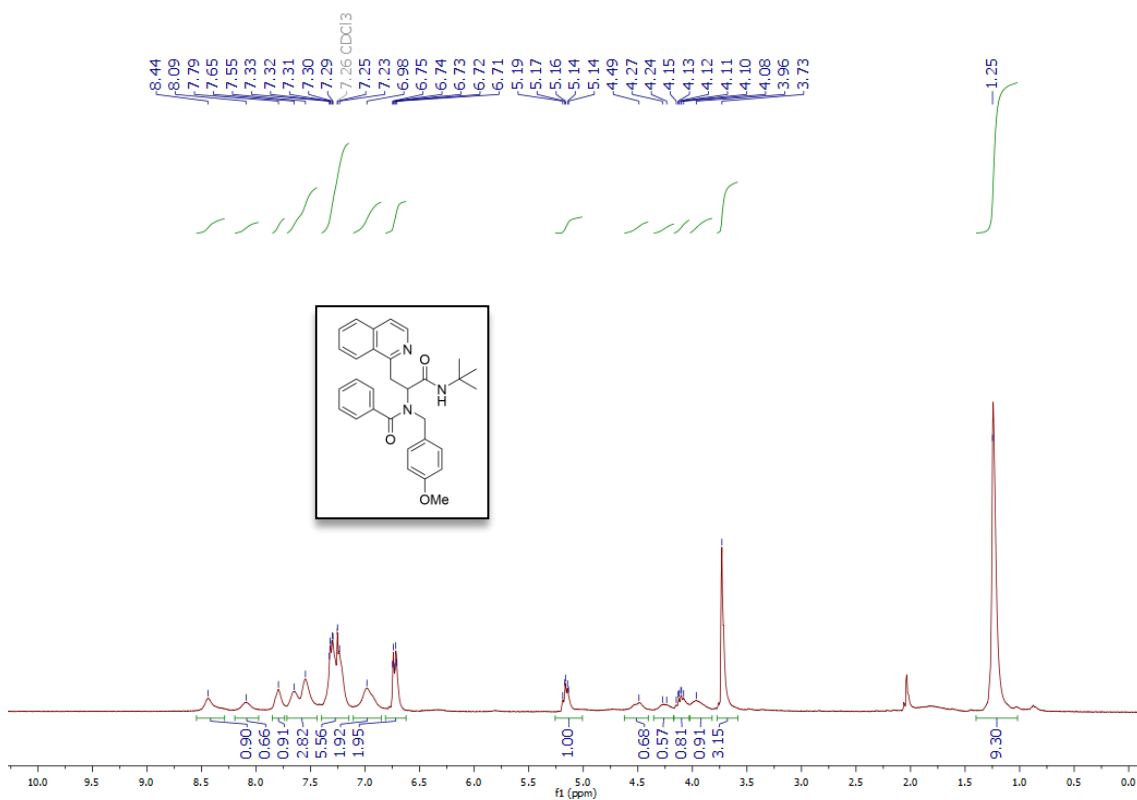
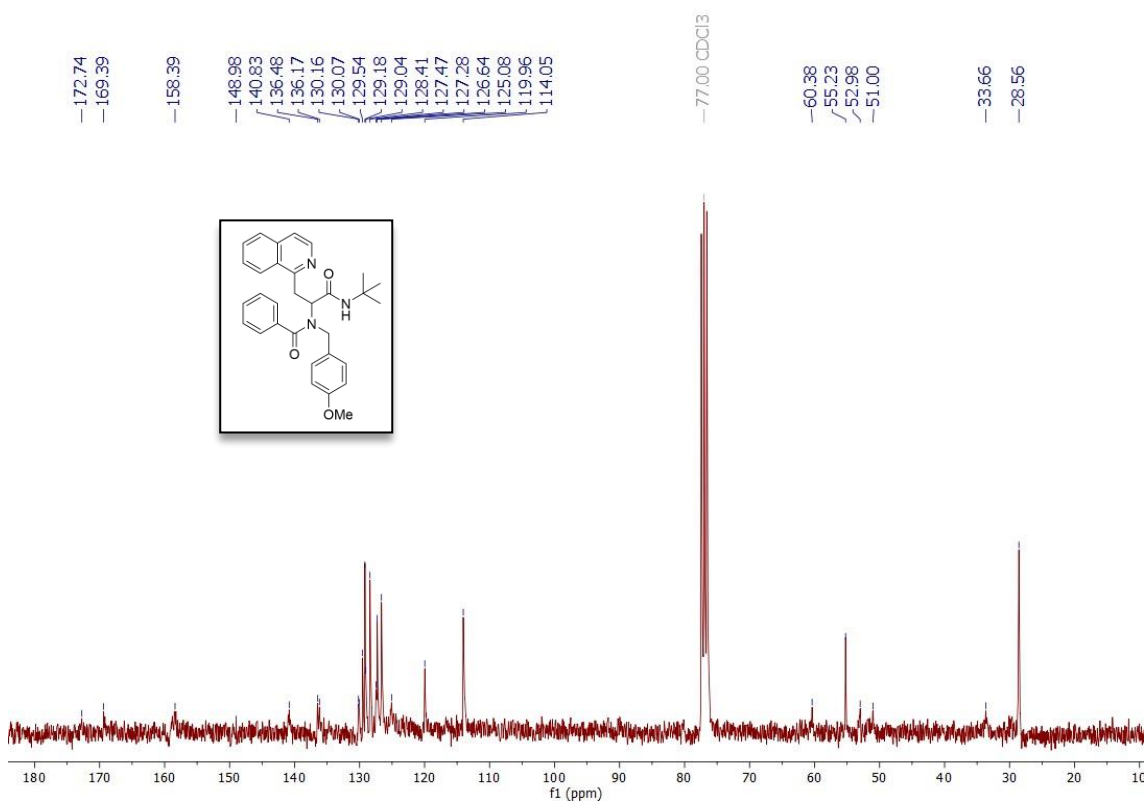
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) of **1g** $^{13}\text{C}$  NMR (125 MHz,  $\text{CDCl}_3$ ) of **1g**

$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) of **2f** $^{13}\text{C}$  NMR (125 MHz,  $\text{CDCl}_3$ ) of **2f**

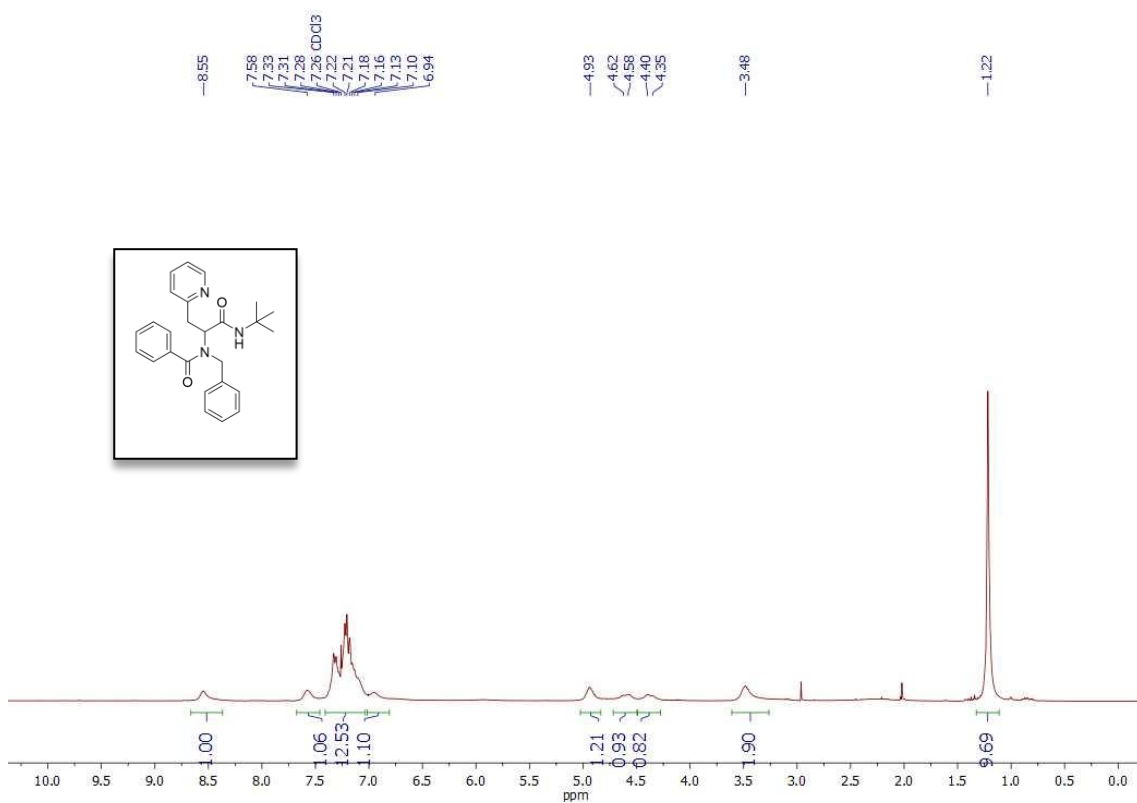
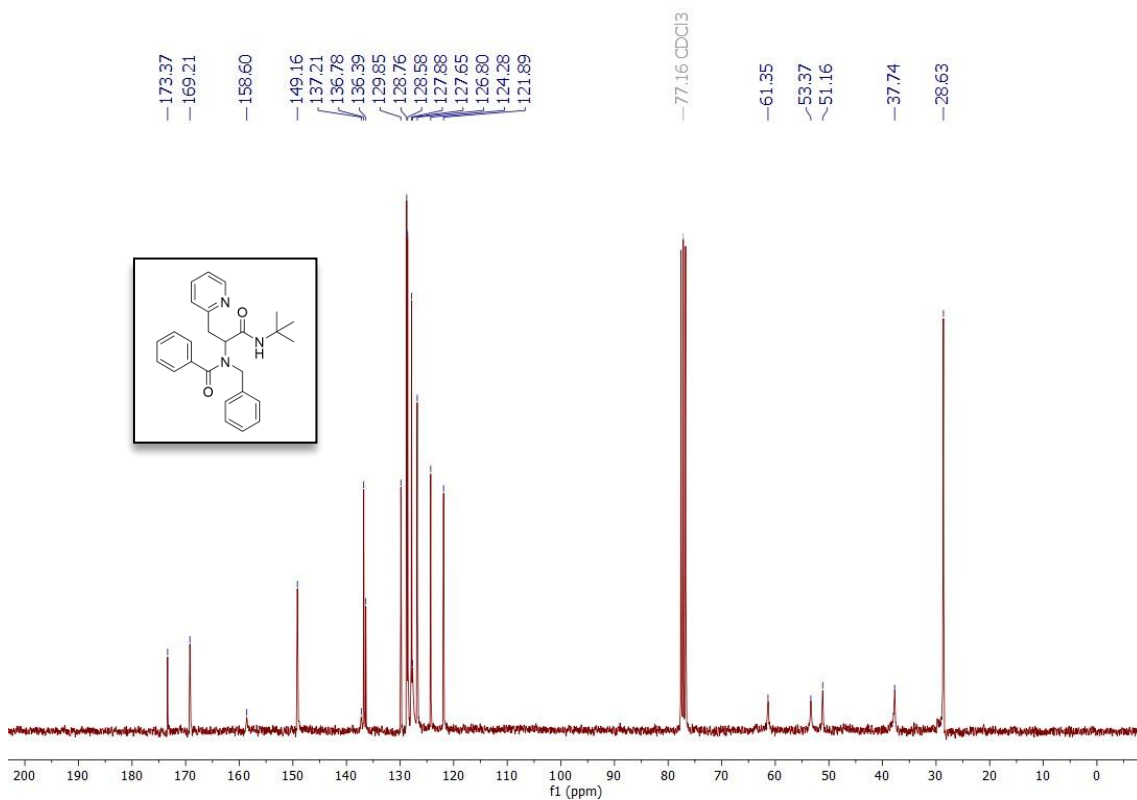
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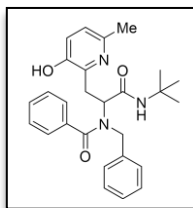
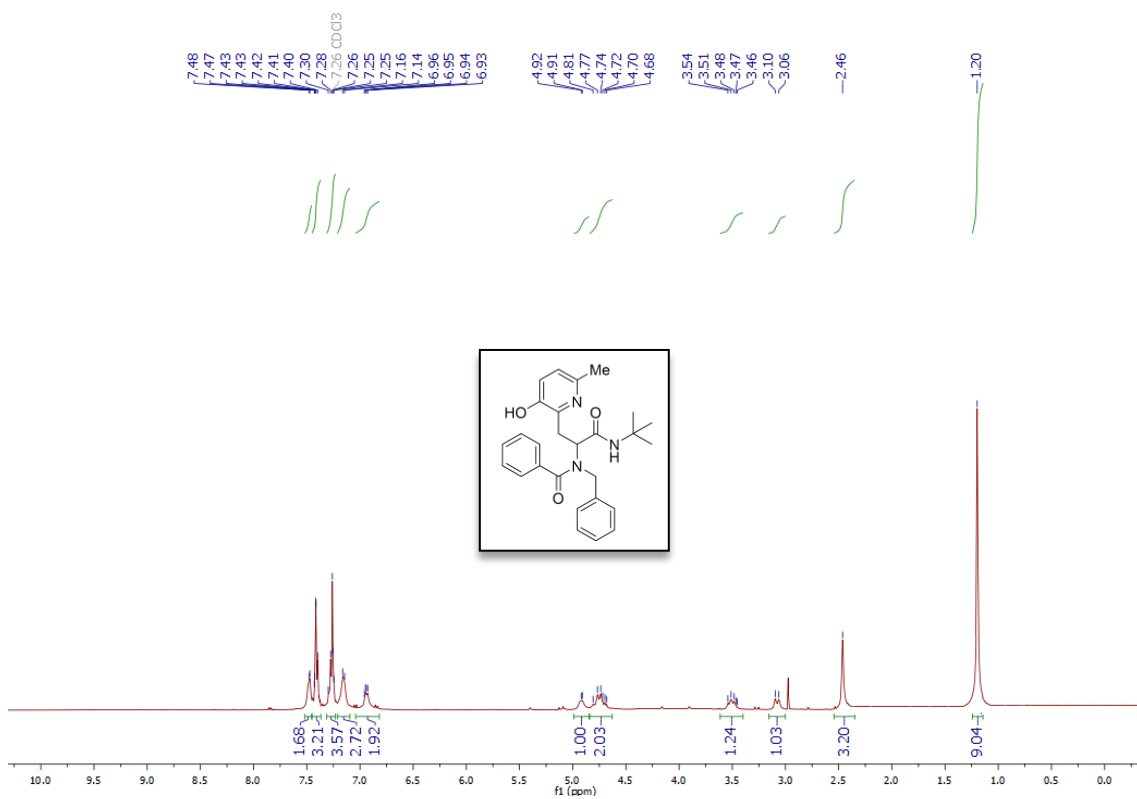
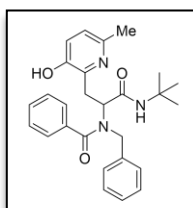
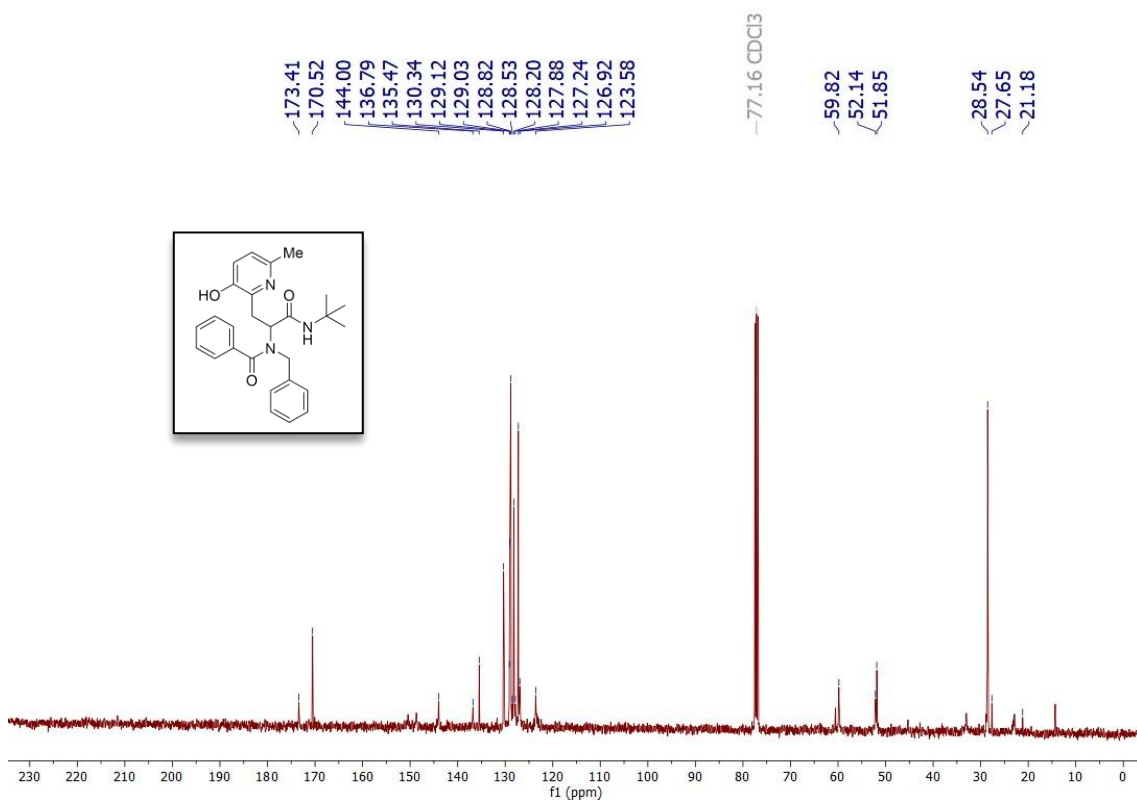
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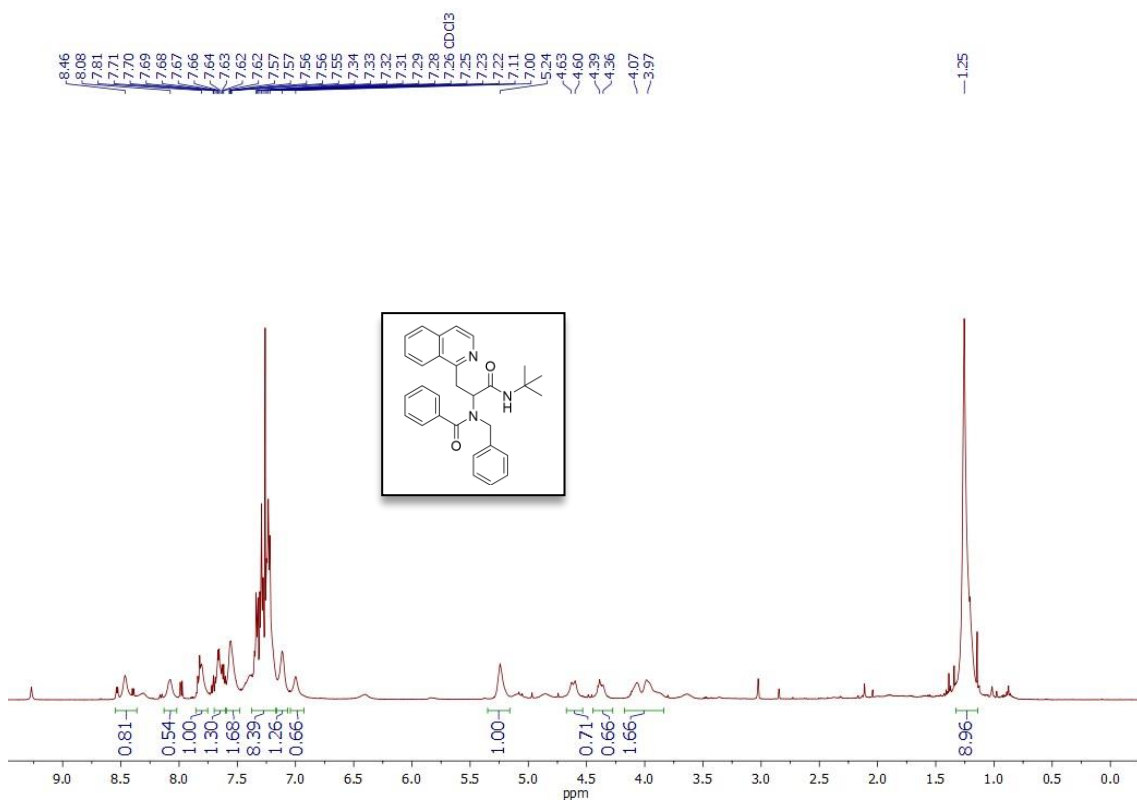
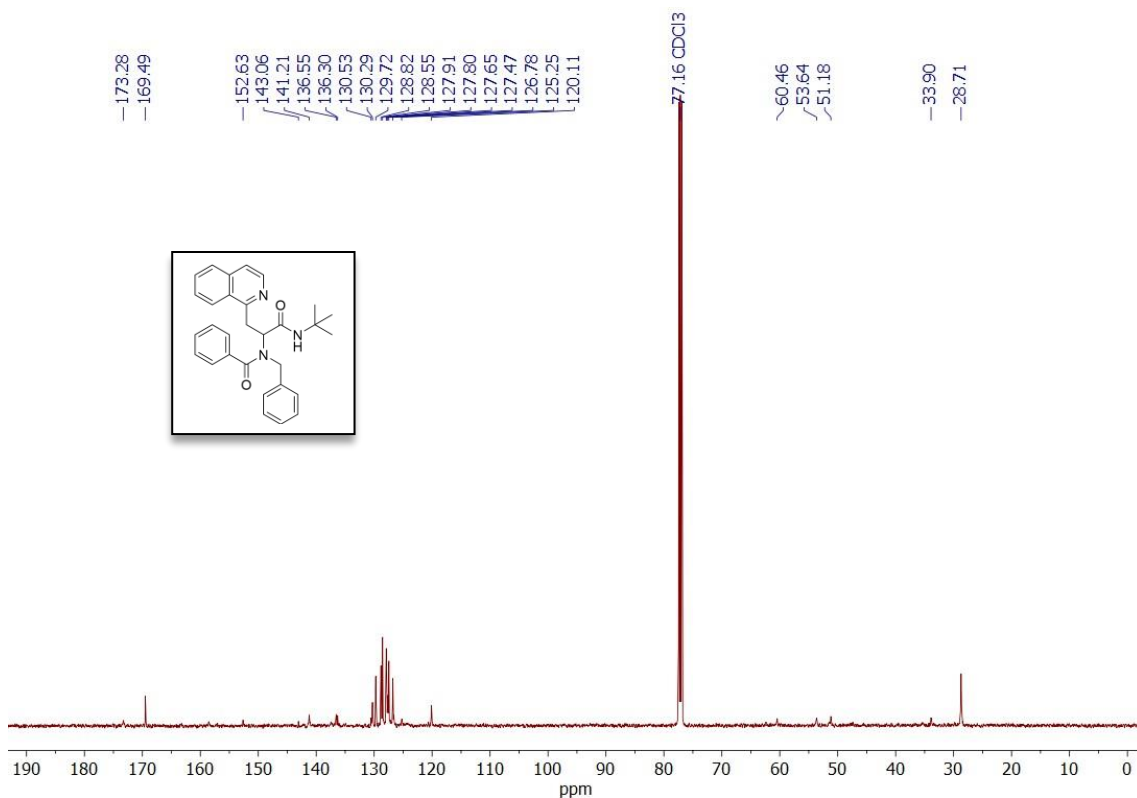
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$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of **4c** $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of **4c**

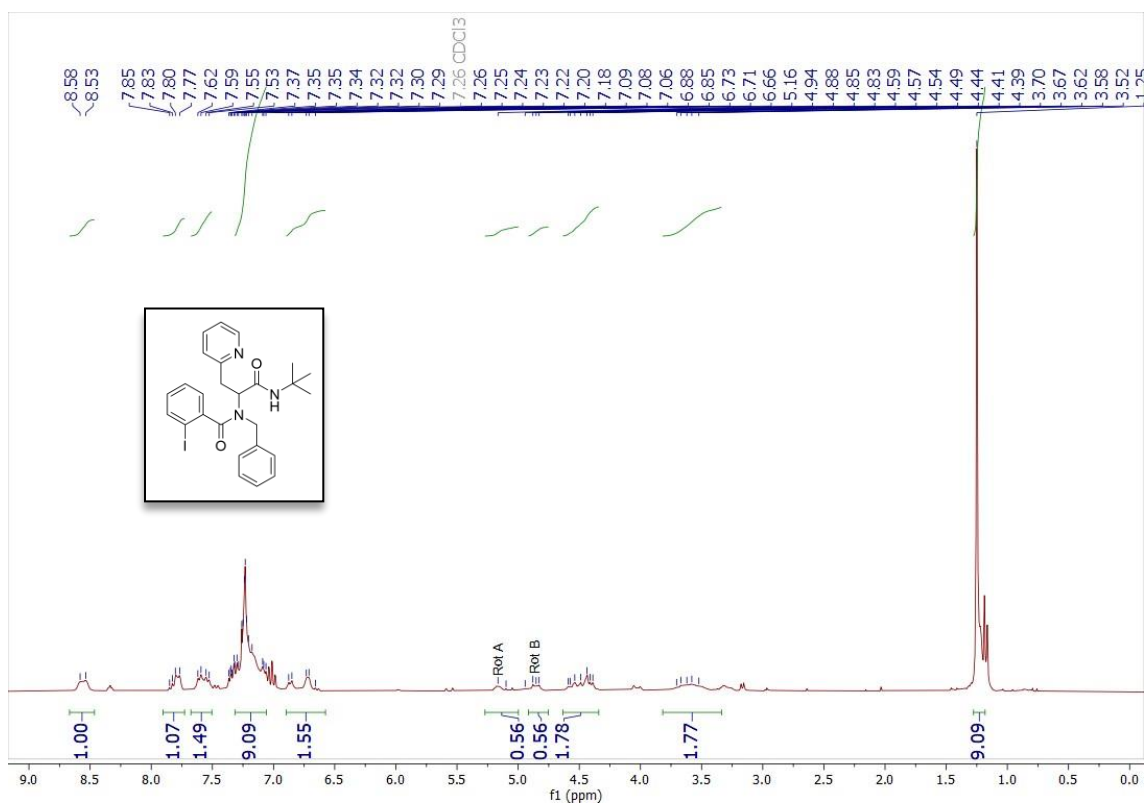


$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of **4d** $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of **4d**

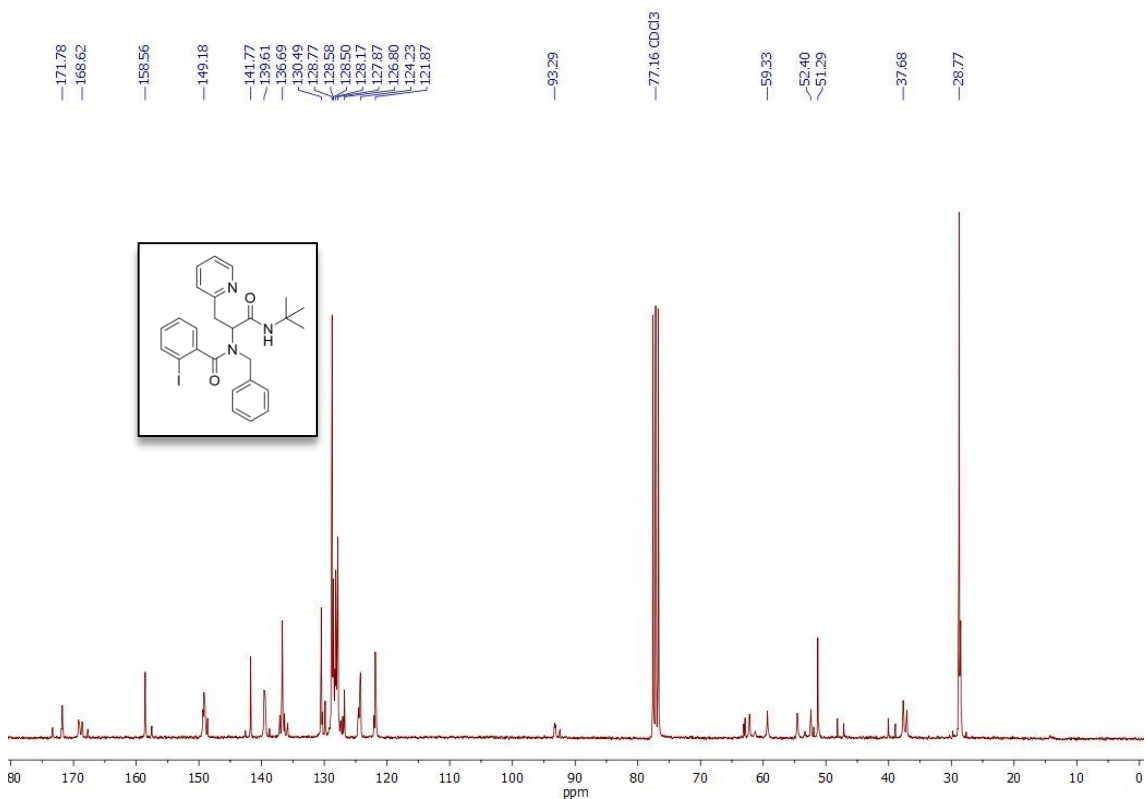
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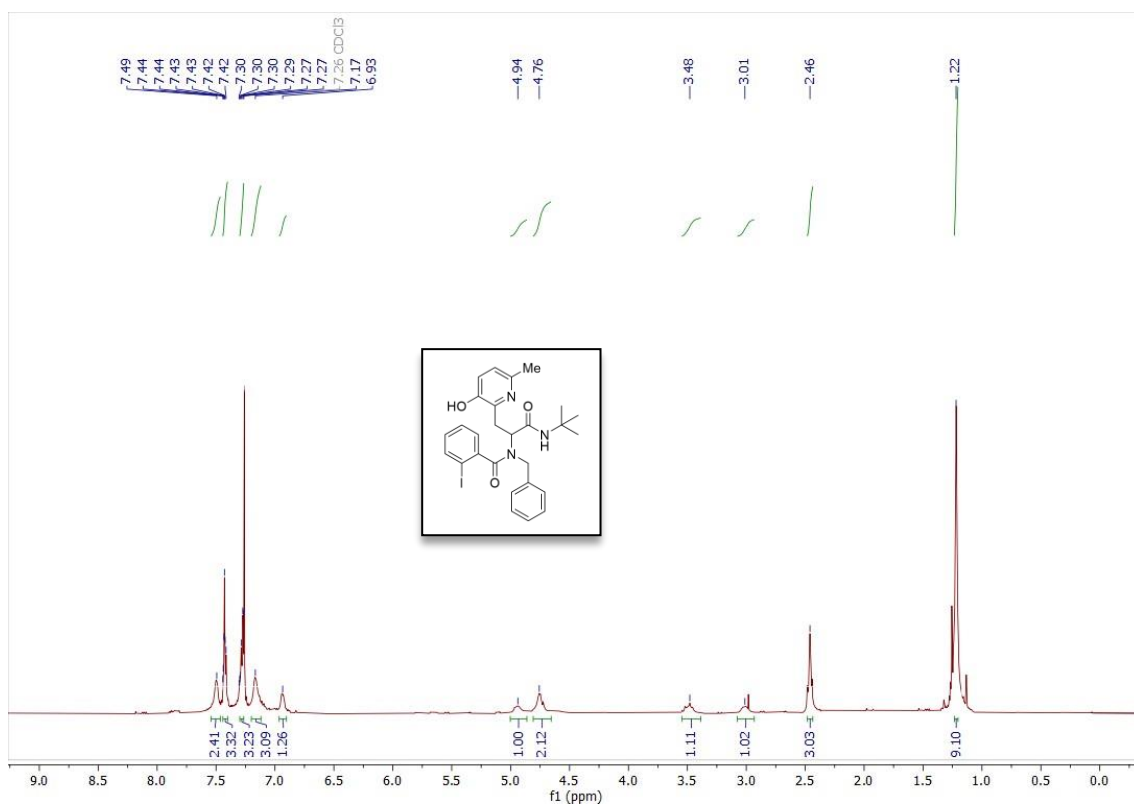
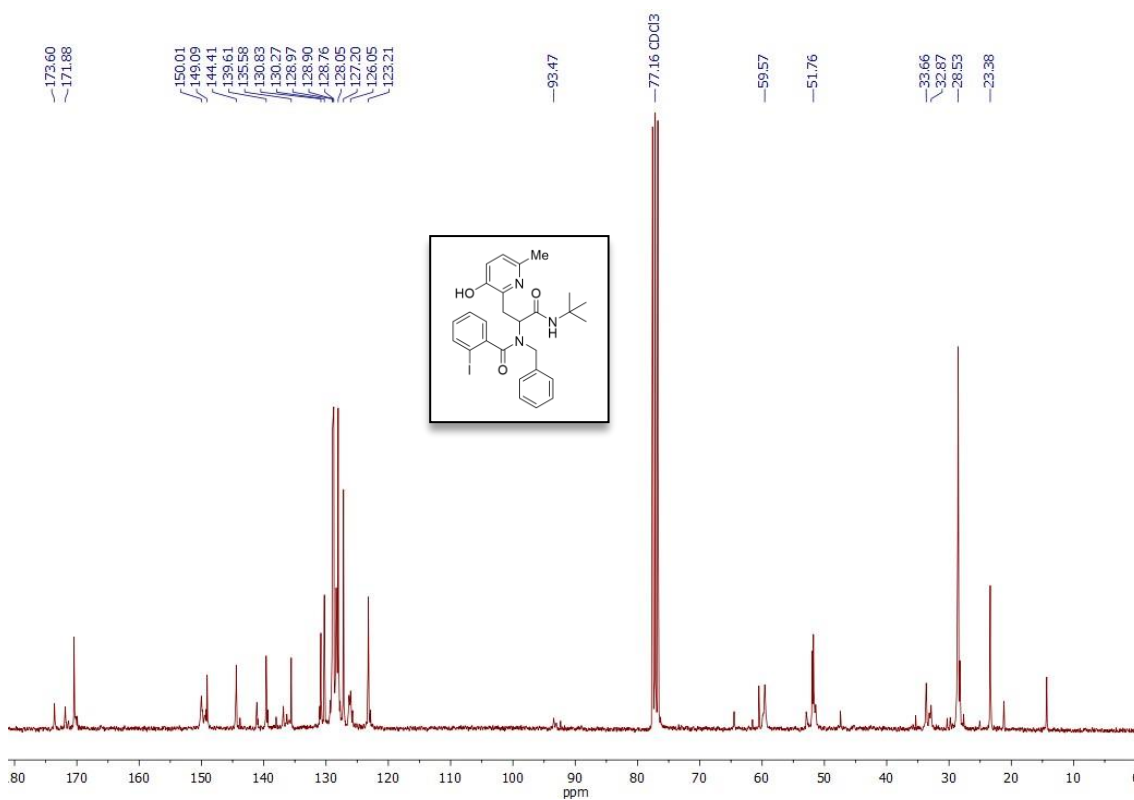
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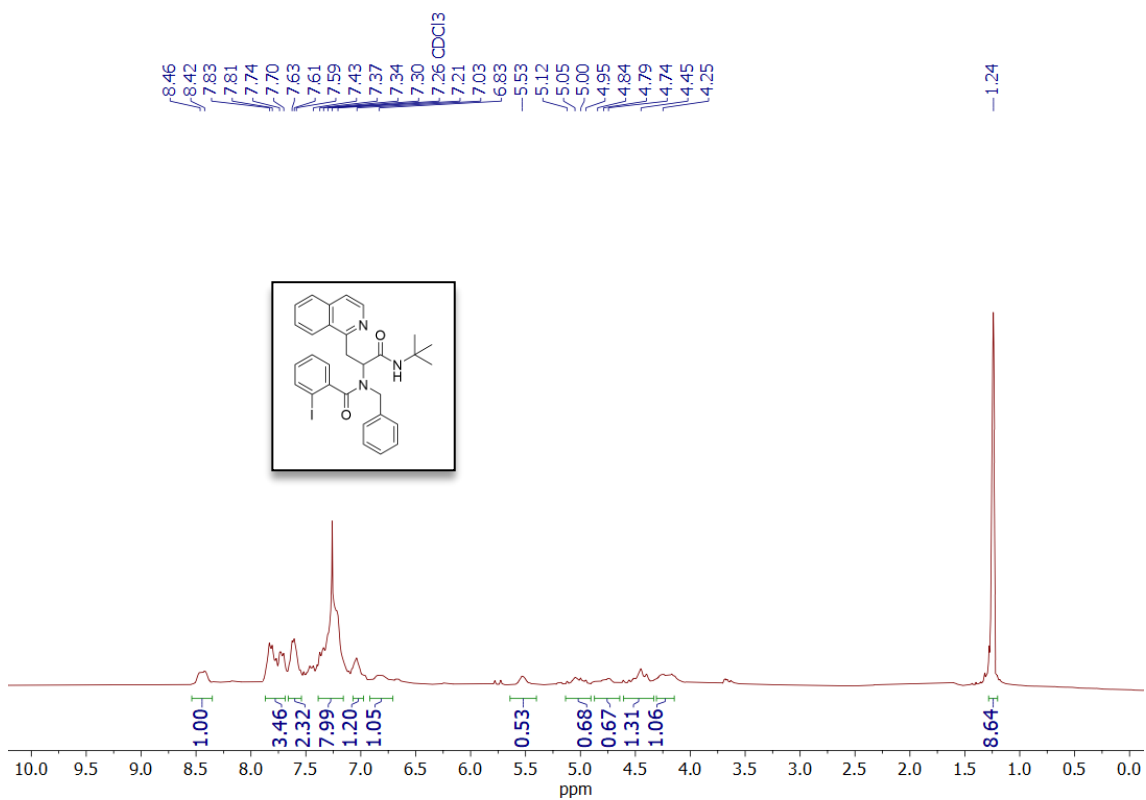
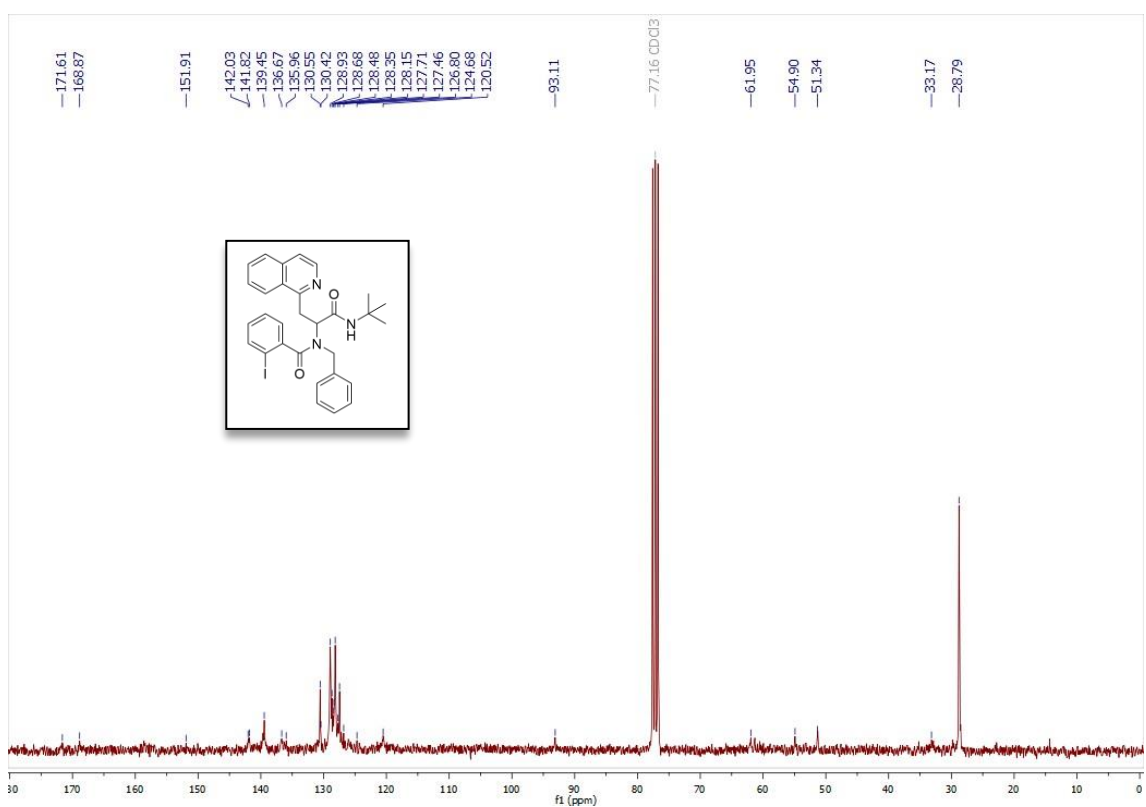
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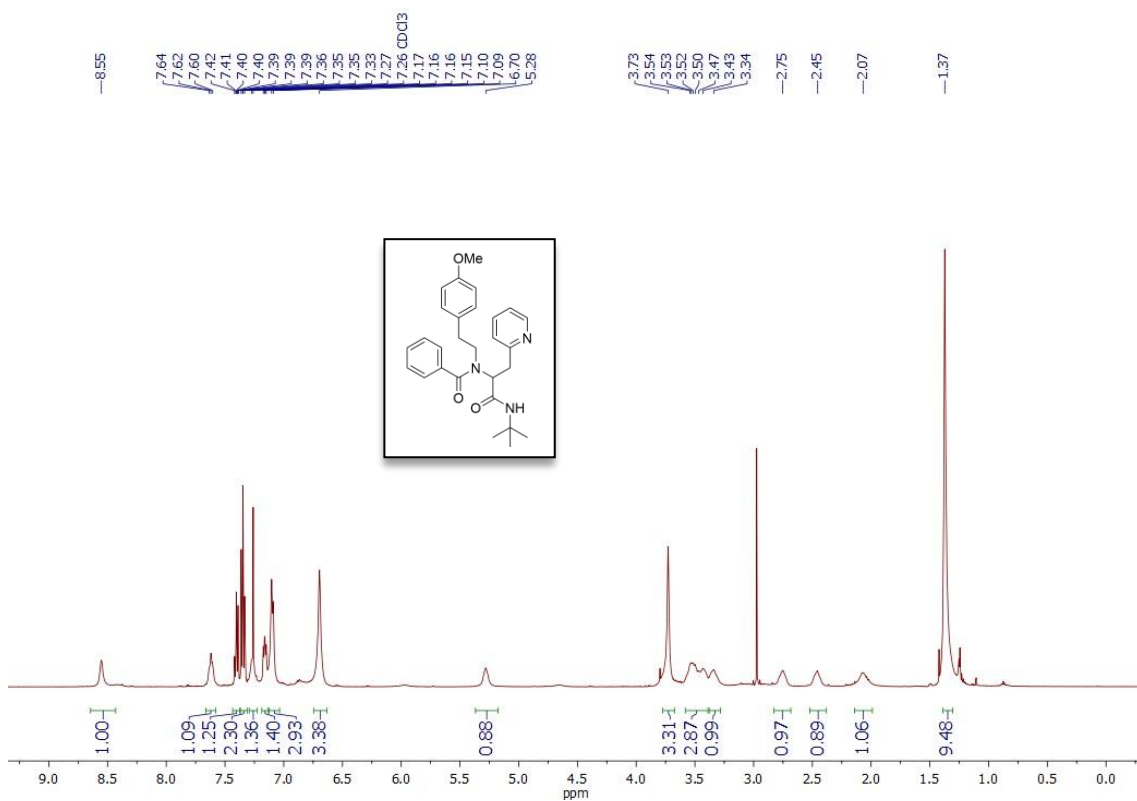
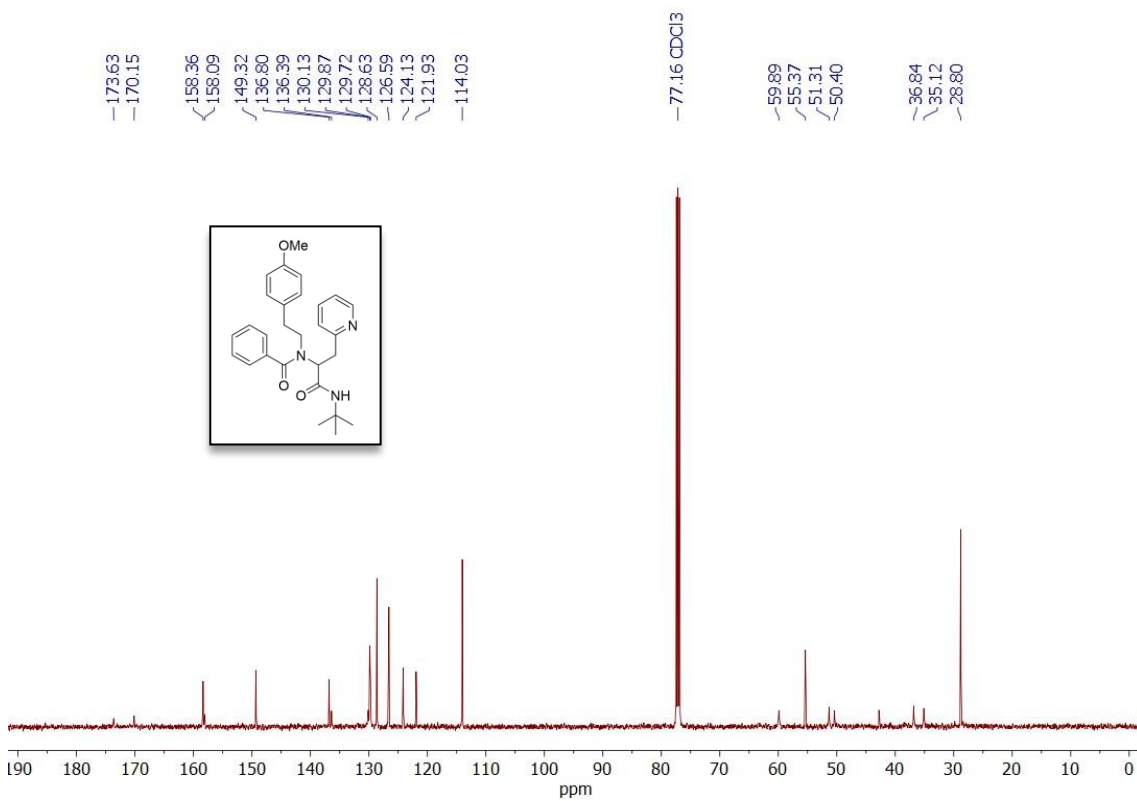


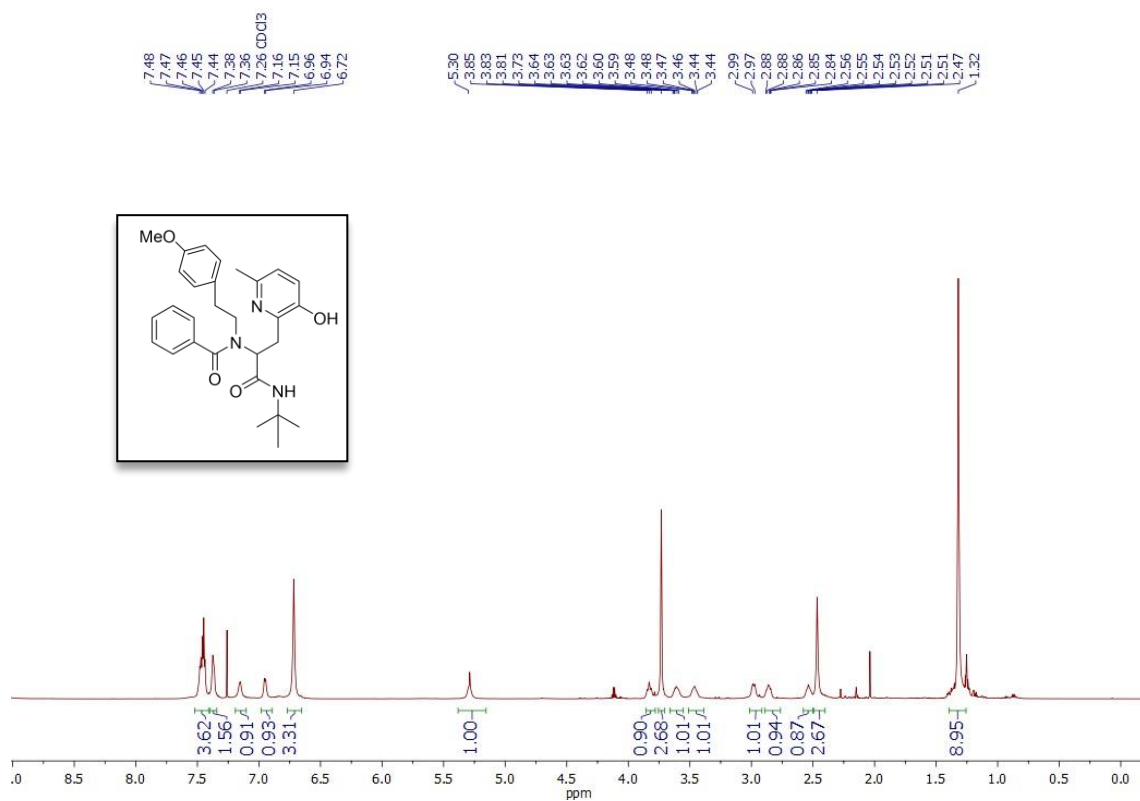
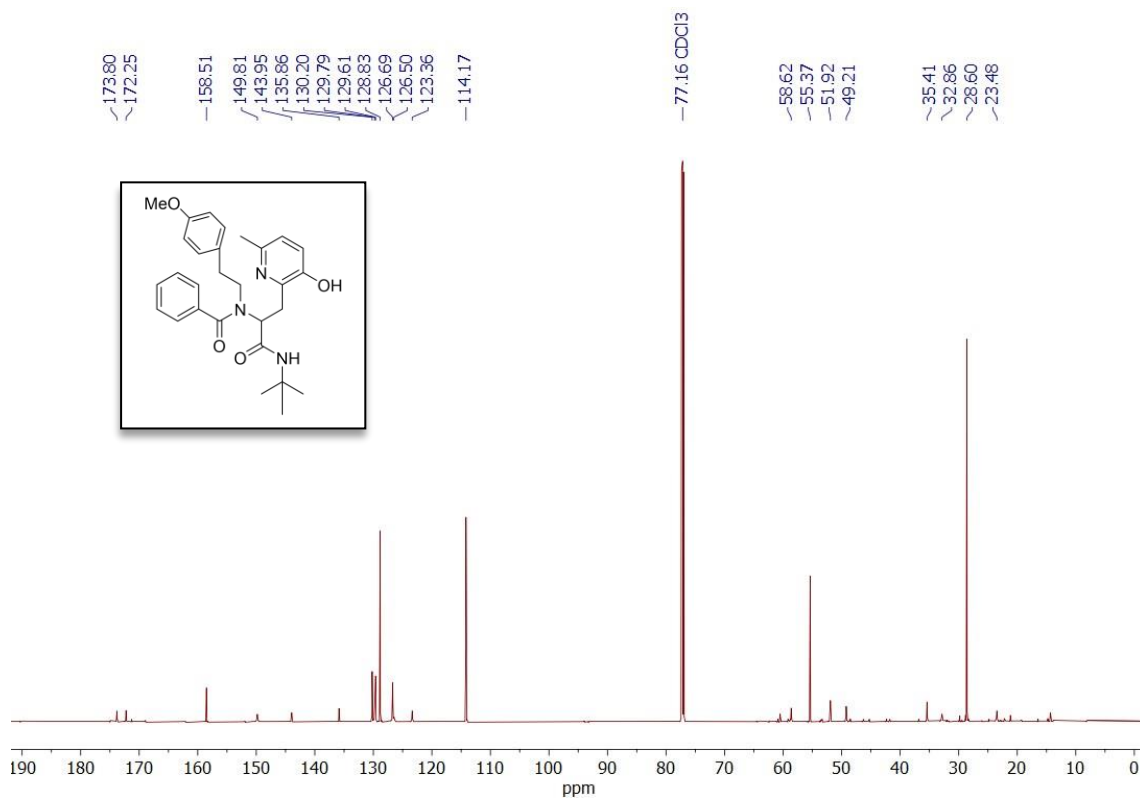
$^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of **4g**



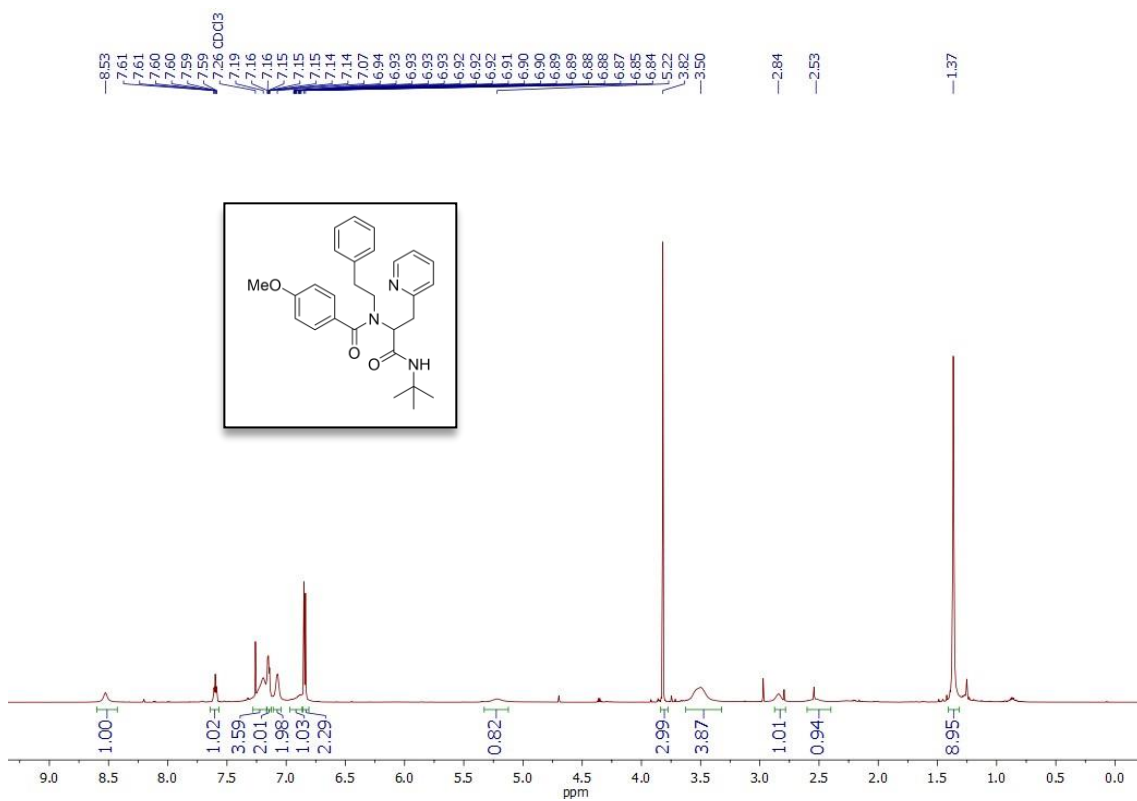
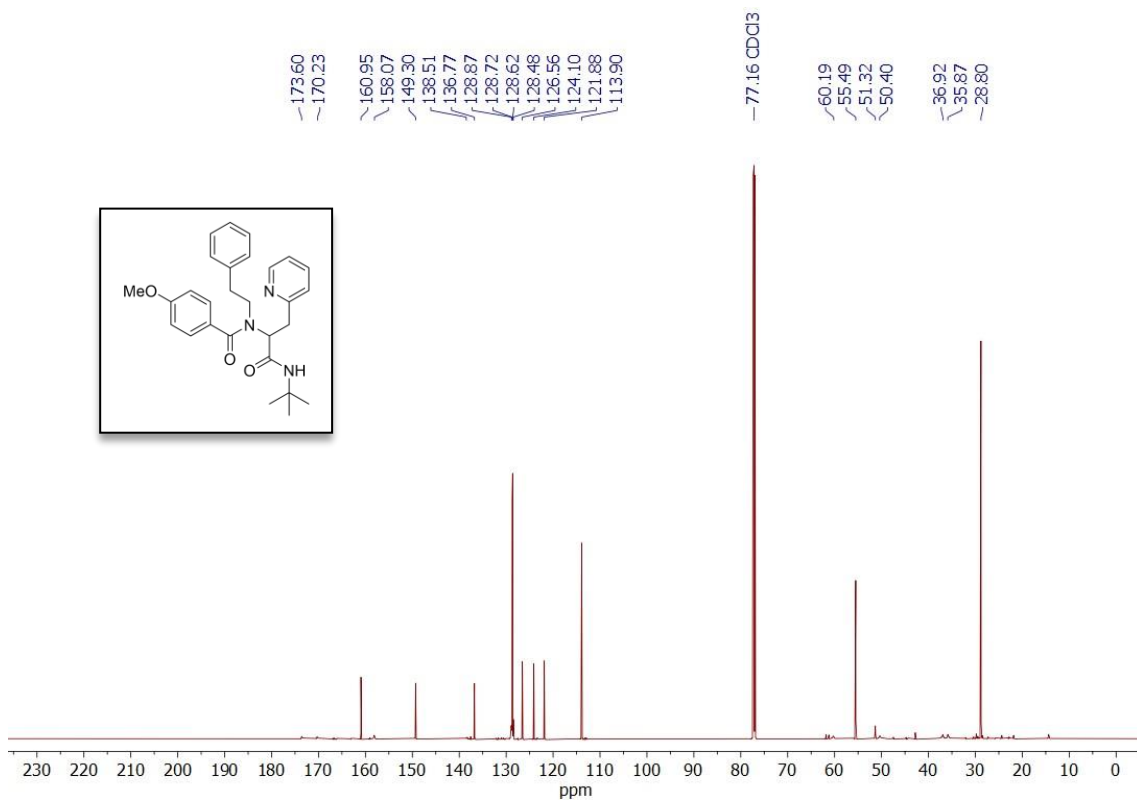
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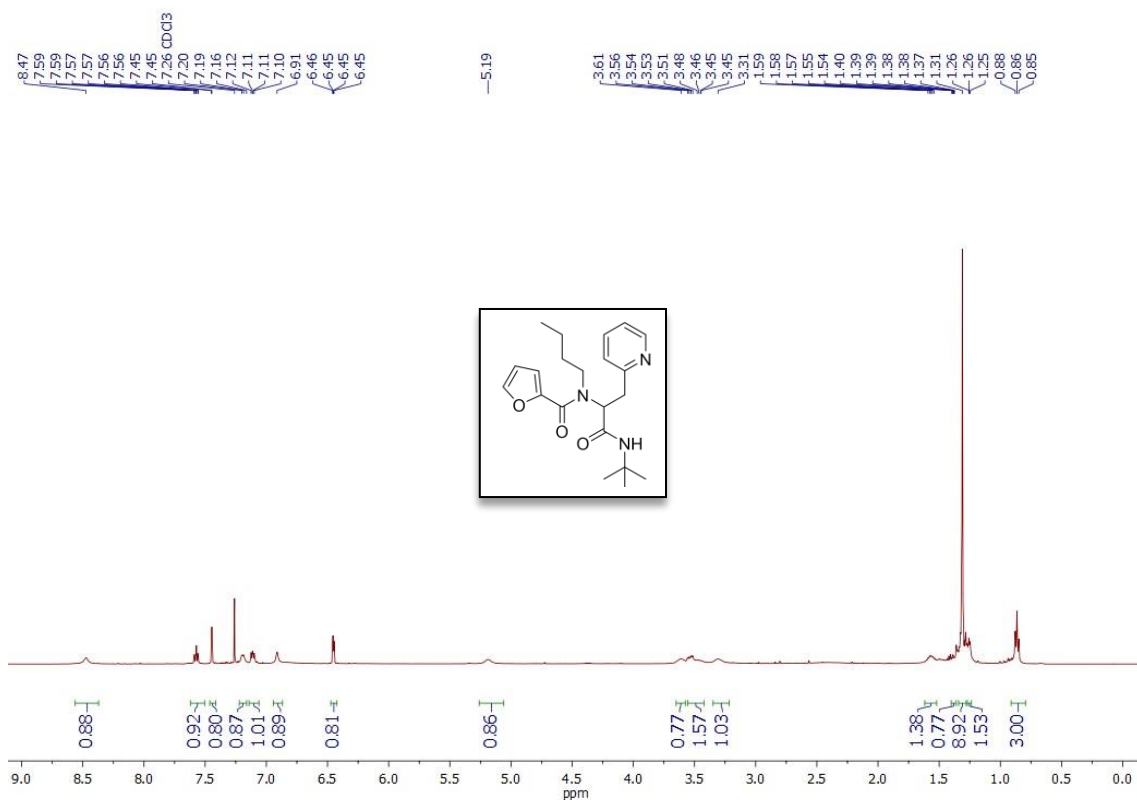
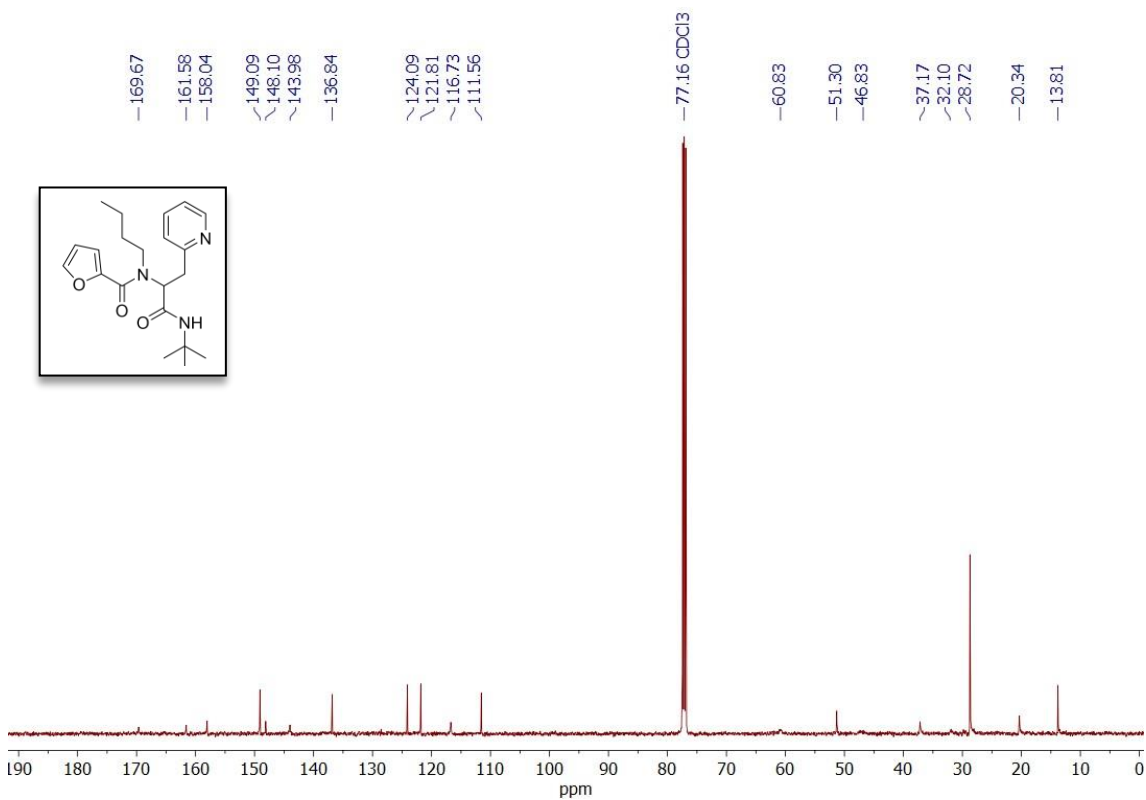
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of **4i** $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of **4i**

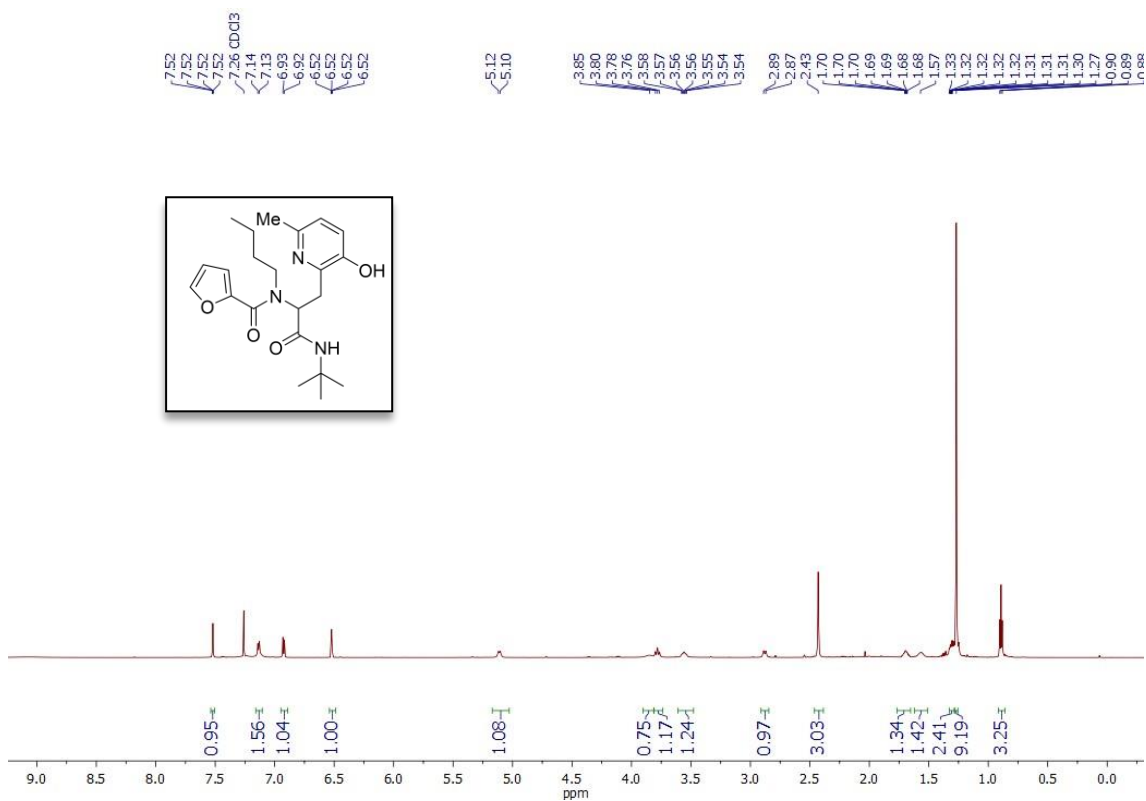
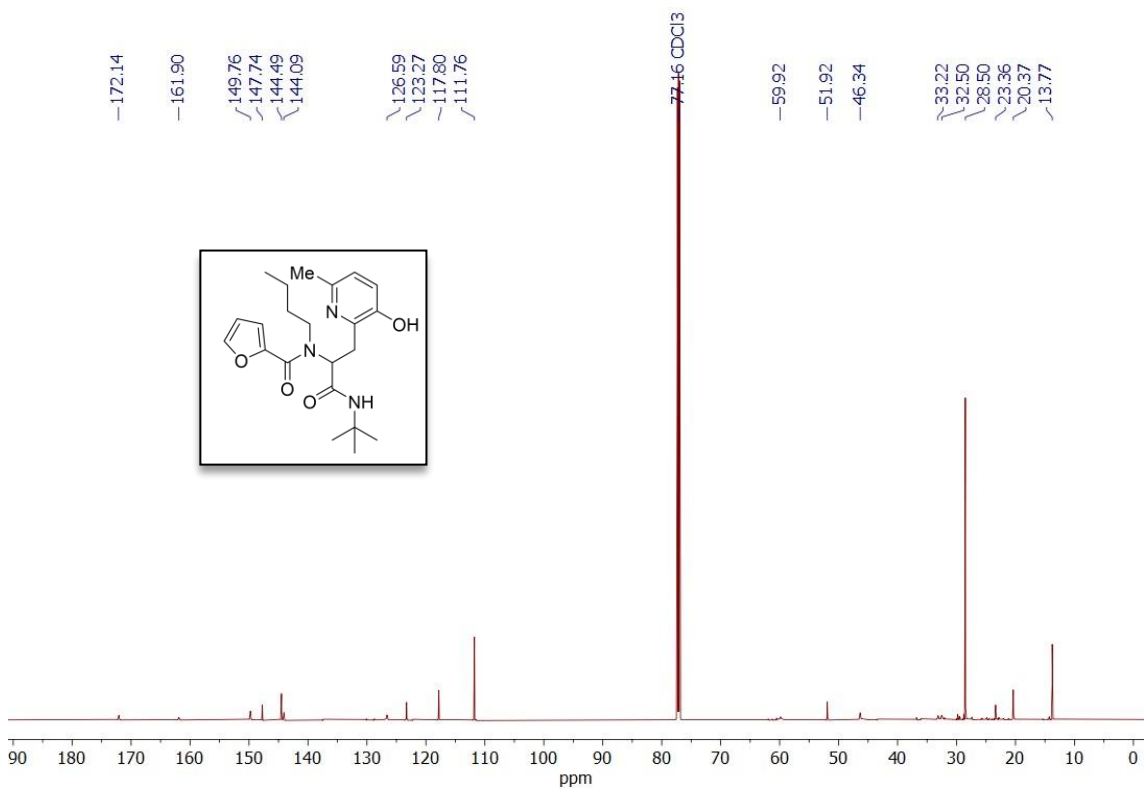
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) of **4j** $^{13}\text{C}$  NMR (125 MHz,  $\text{CDCl}_3$ ) of **4j**

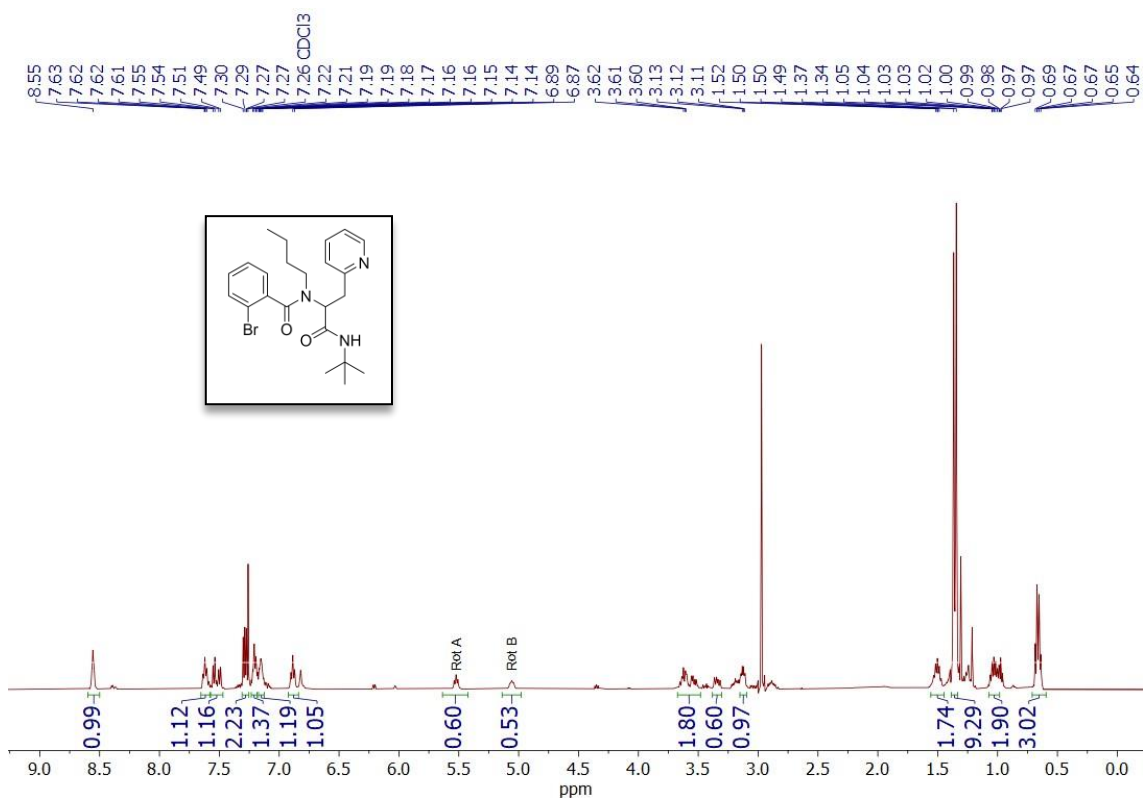
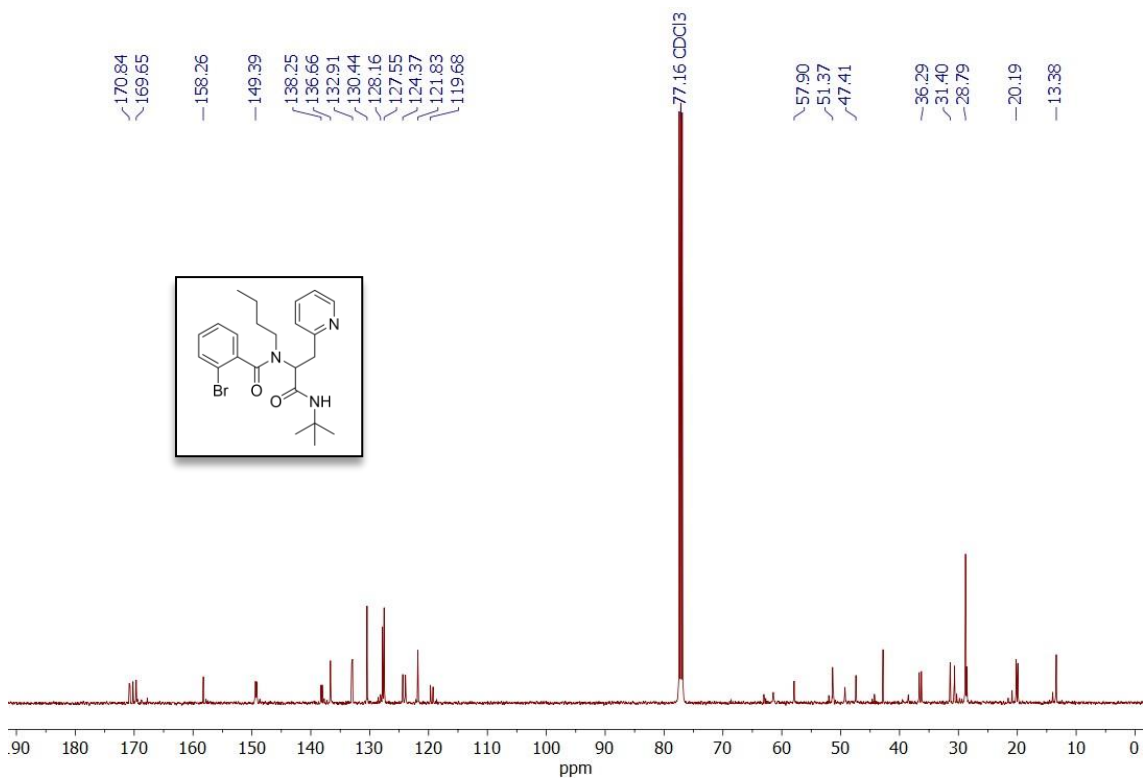
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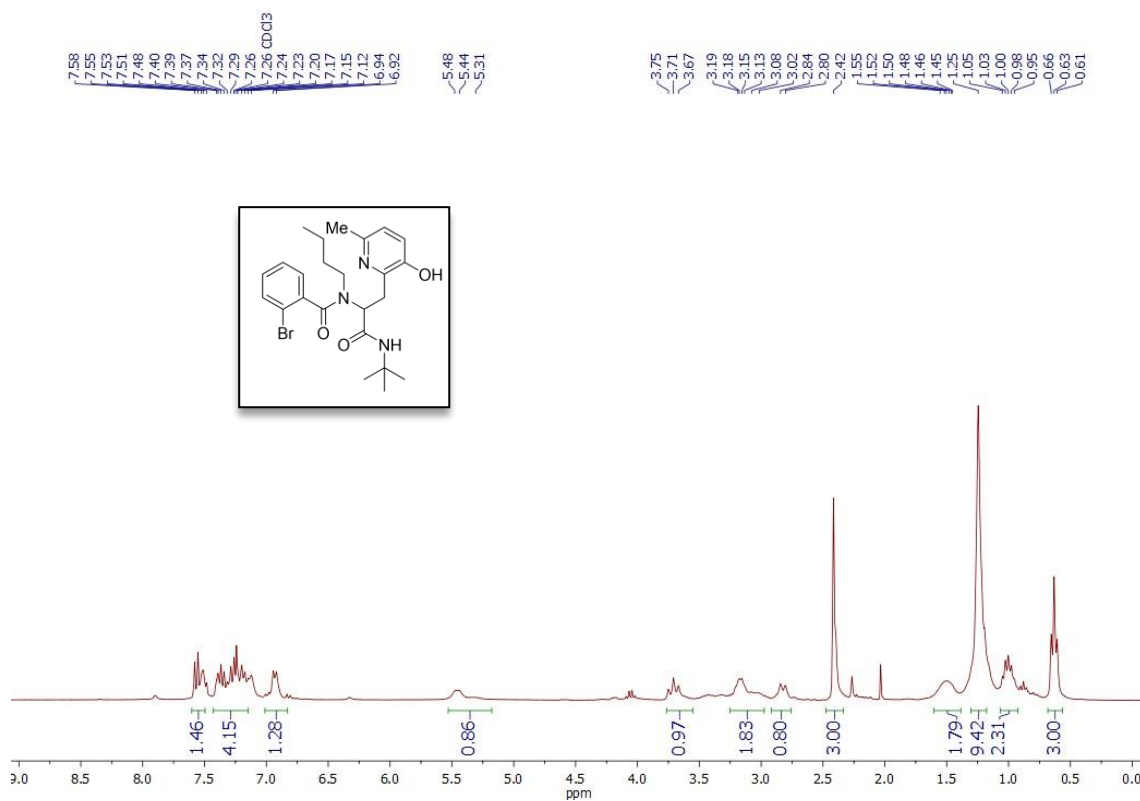


$^1\text{H}$  NMR (700 MHz,  $\text{CDCl}_3$ ) of **4l** $^{13}\text{C}$  NMR (175 MHz,  $\text{CDCl}_3$ ) of **4l**

$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) of **4m** $^{13}\text{C}$  NMR (125 MHz,  $\text{CDCl}_3$ ) of **4m**

$^1\text{H}$  NMR (700 MHz,  $\text{CDCl}_3$ ) of **4n** $^{13}\text{C}$  NMR (175 MHz,  $\text{CDCl}_3$ ) of **4n**

$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) of **4o** $^{13}\text{C}$  NMR (125 MHz,  $\text{CDCl}_3$ ) of **4o**

$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ , 223 K) of **4p** $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ , 223 K) of **4p**