Do it Magnetic: Synthesis of Tri-substituted Ureas by a Multi-step Sequence Utilizing Recyclable Magnetic Reagents and Scavengers[i]

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Supporting Information

1. Additional IR spectra

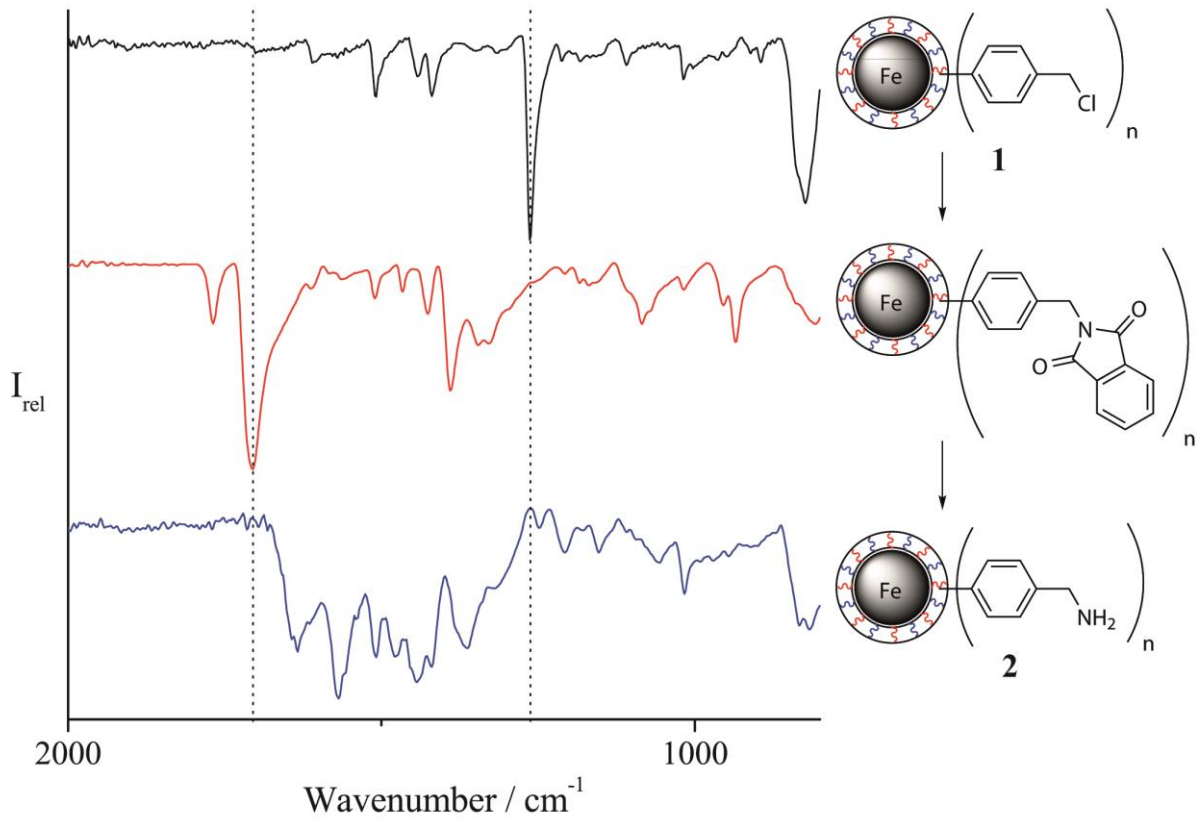


Figure S1. IR-ATR spectra of polymer coated Fe/C nanobeads bearing chlorine moieties **1** (top), after substitution with phthalimide (middle) and subsequent cleavage with hydrazine (bottom) leading to amine functionalized nanobeads **2**.

2. TEM pictures

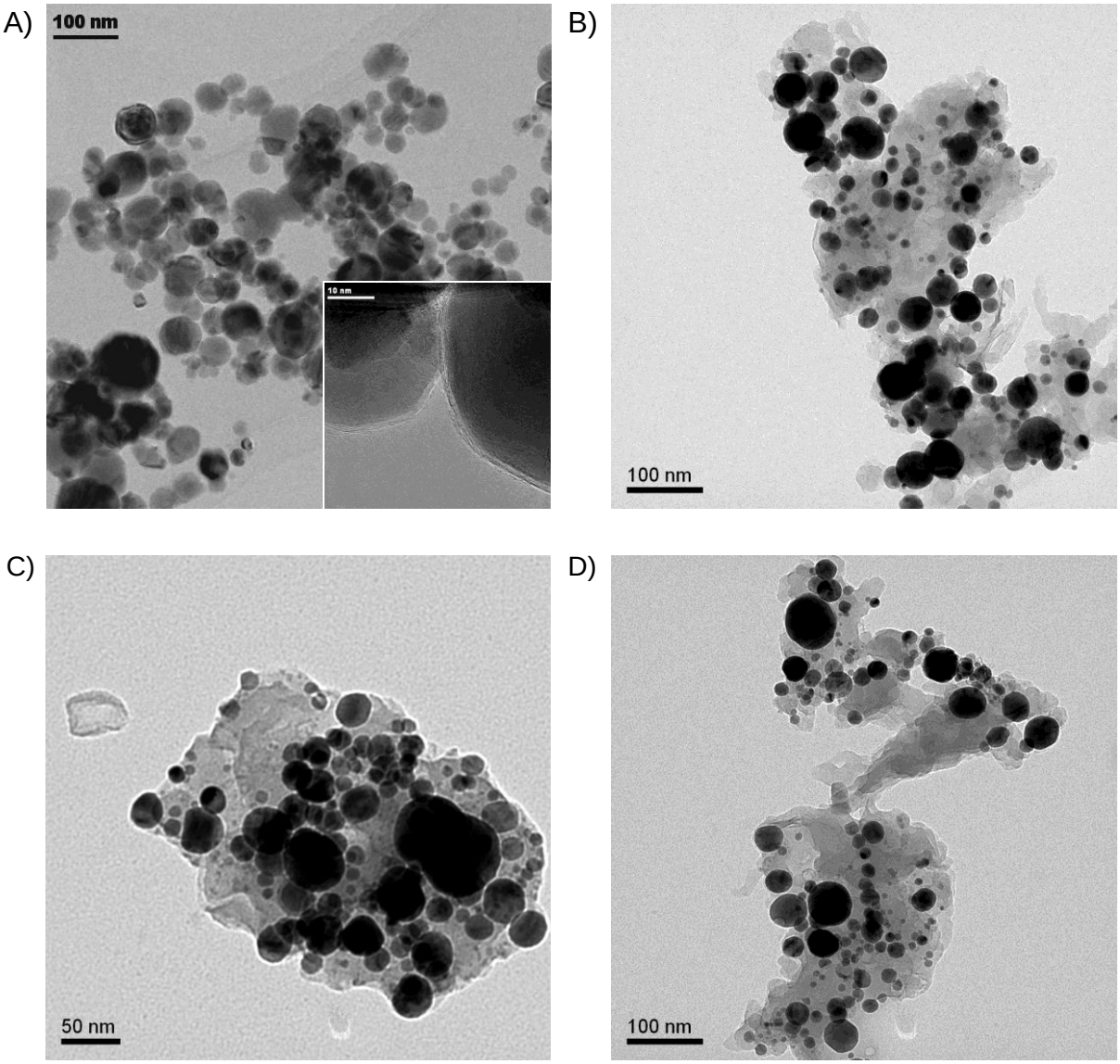
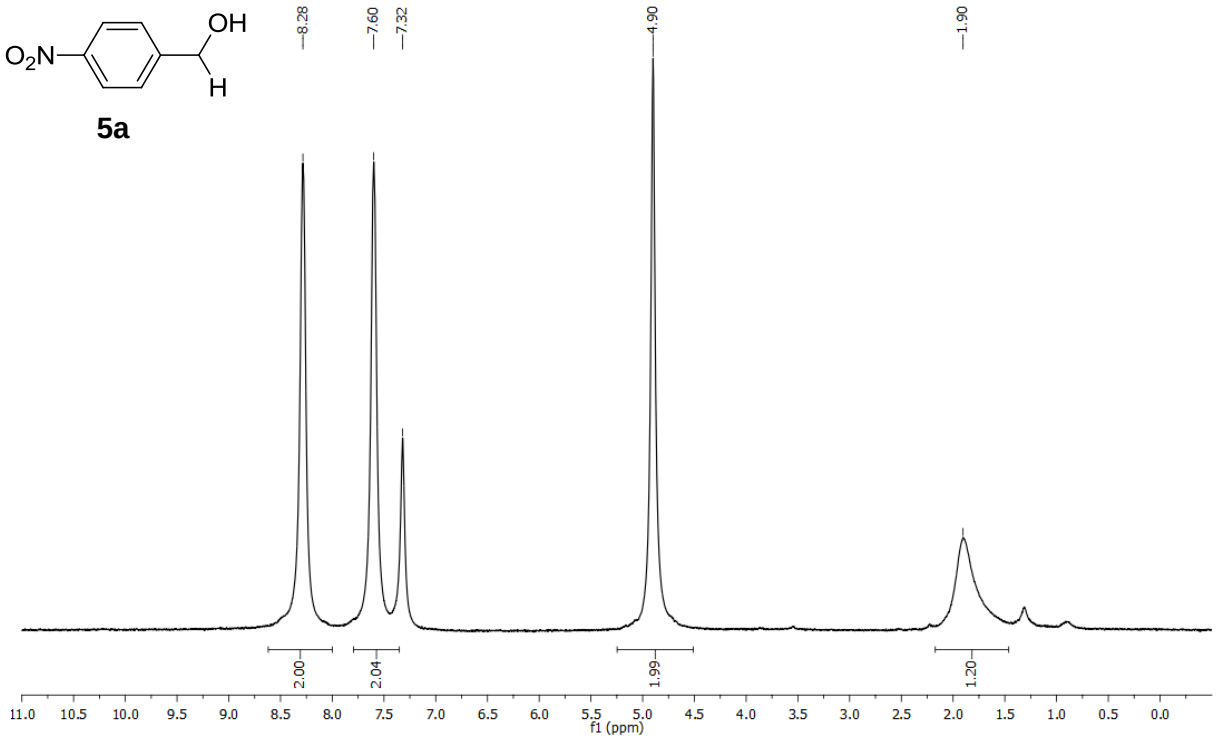


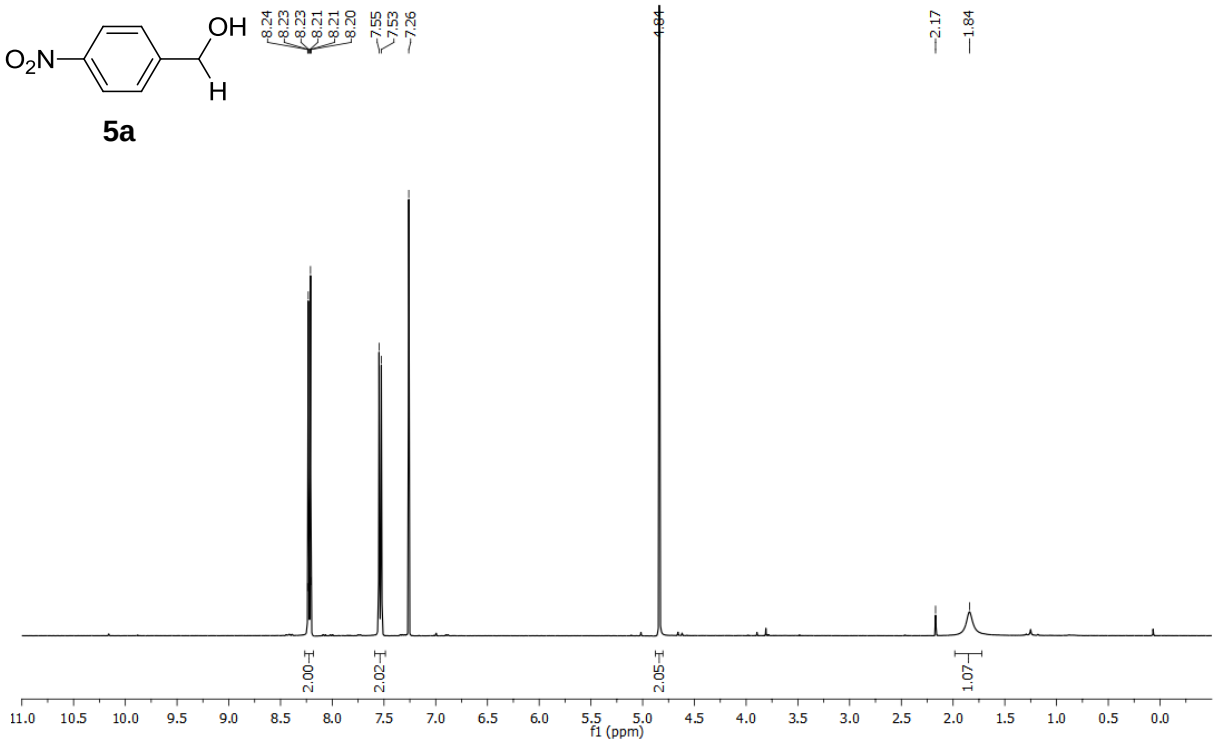
Figure S2. TEM-pictures of pristine Co/C nanoparticles (A), polymer-coated Co/C nanobeads (B) and mBER (C) as well as mWang (D) resins.

3. NMR spectra

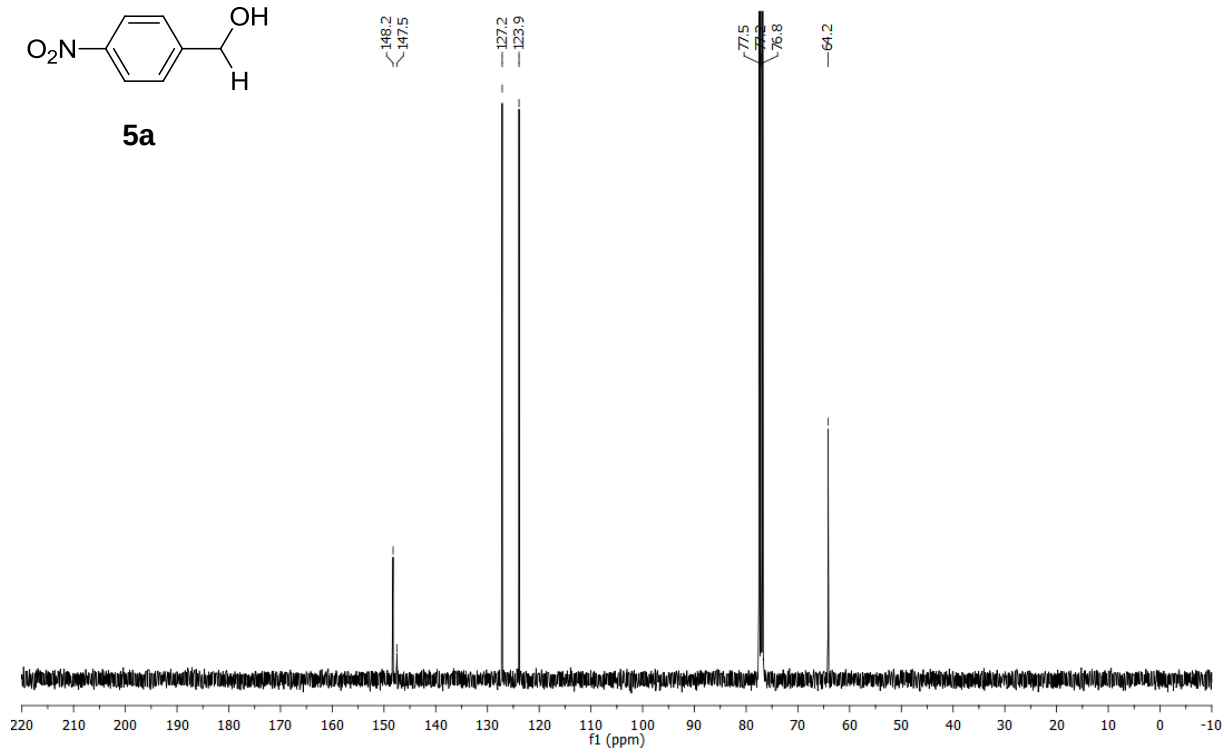
^{1}H-NMR (400 MHz, $CDCl_3$, **not filtered**)



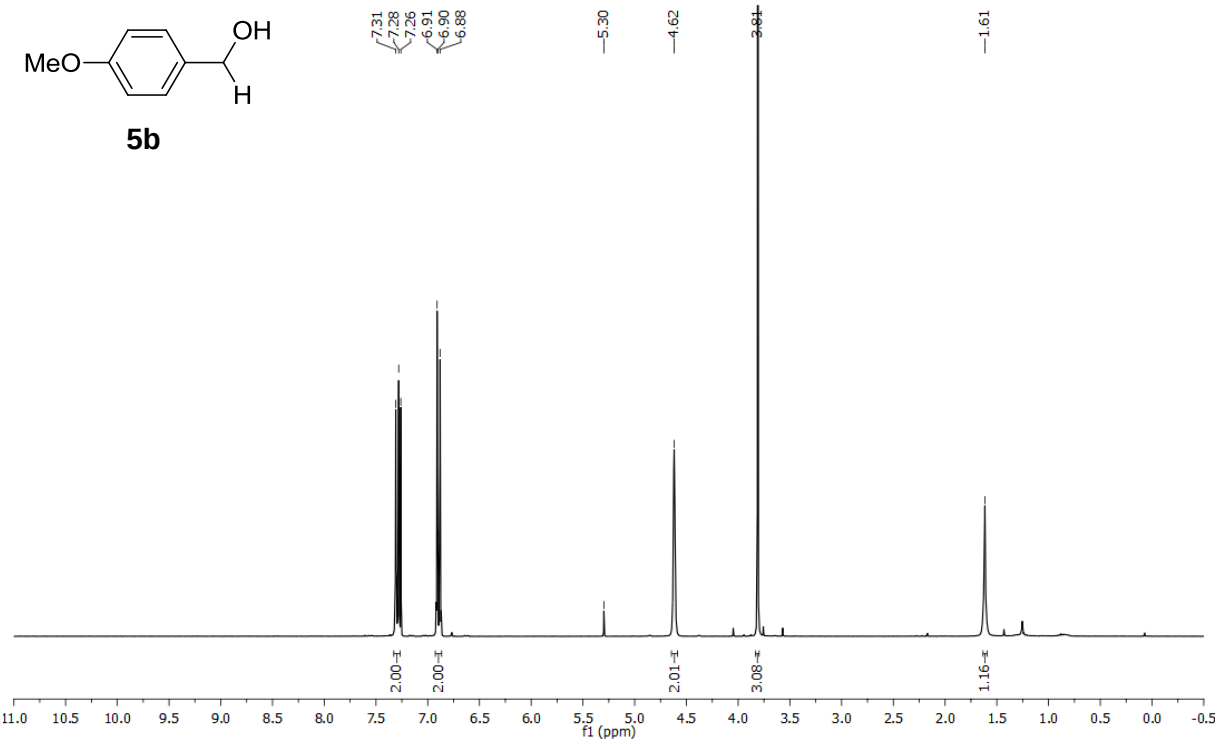
^{1}H-NMR (400 MHz, $CDCl_3$, **filtered**)



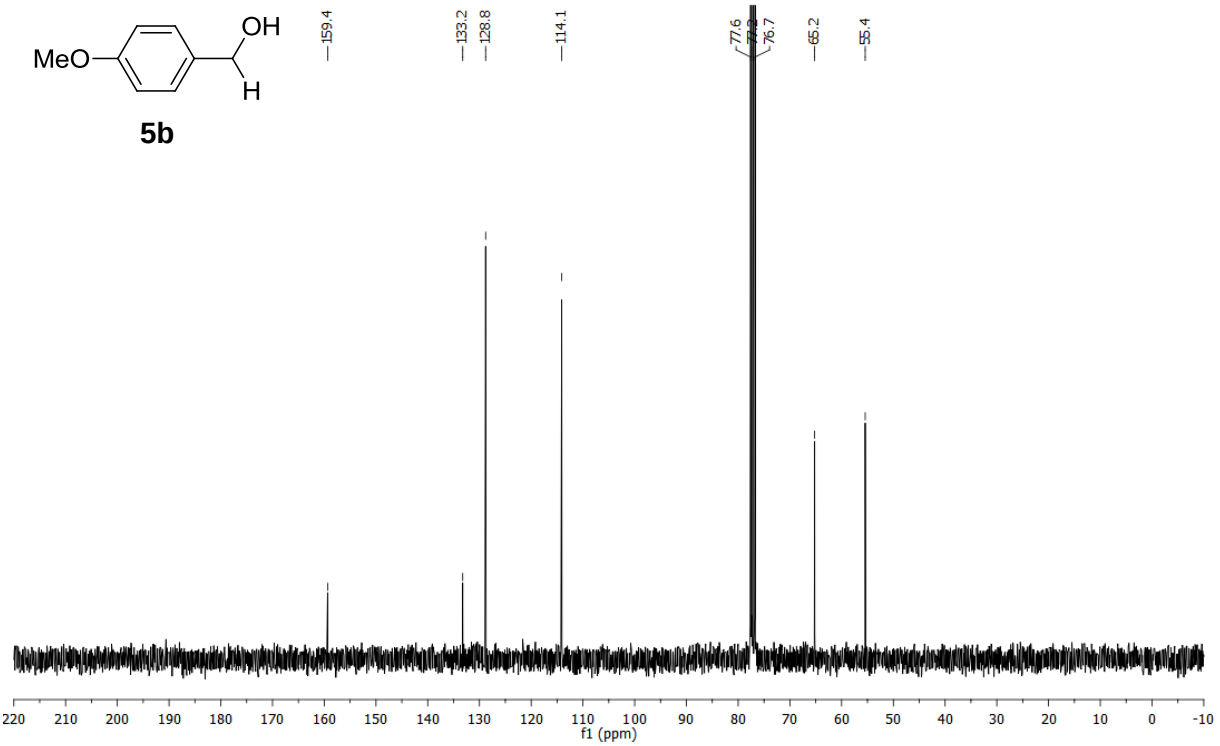
^{13}C-NMR (101 MHz, $CDCl_3$)



^{1}H-NMR (300 MHz, $CDCl_3$)



^{13}C-NMR (75 MHz, $CDCl_3$)



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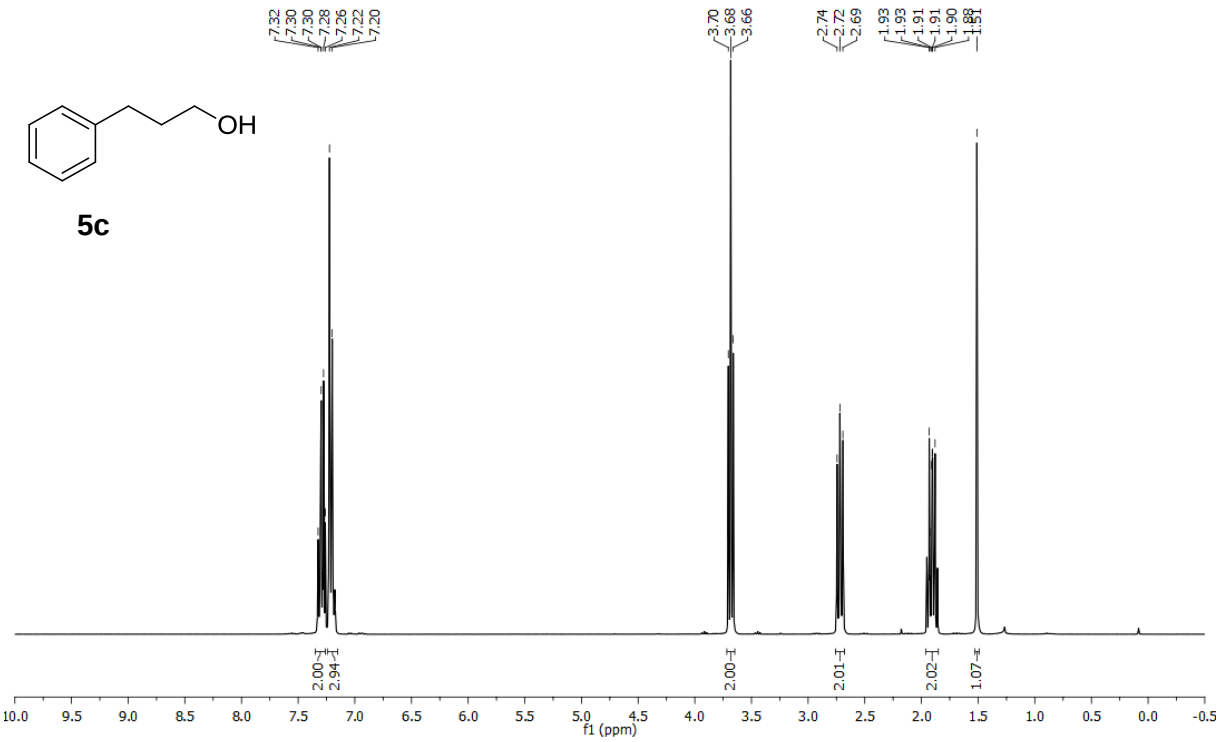

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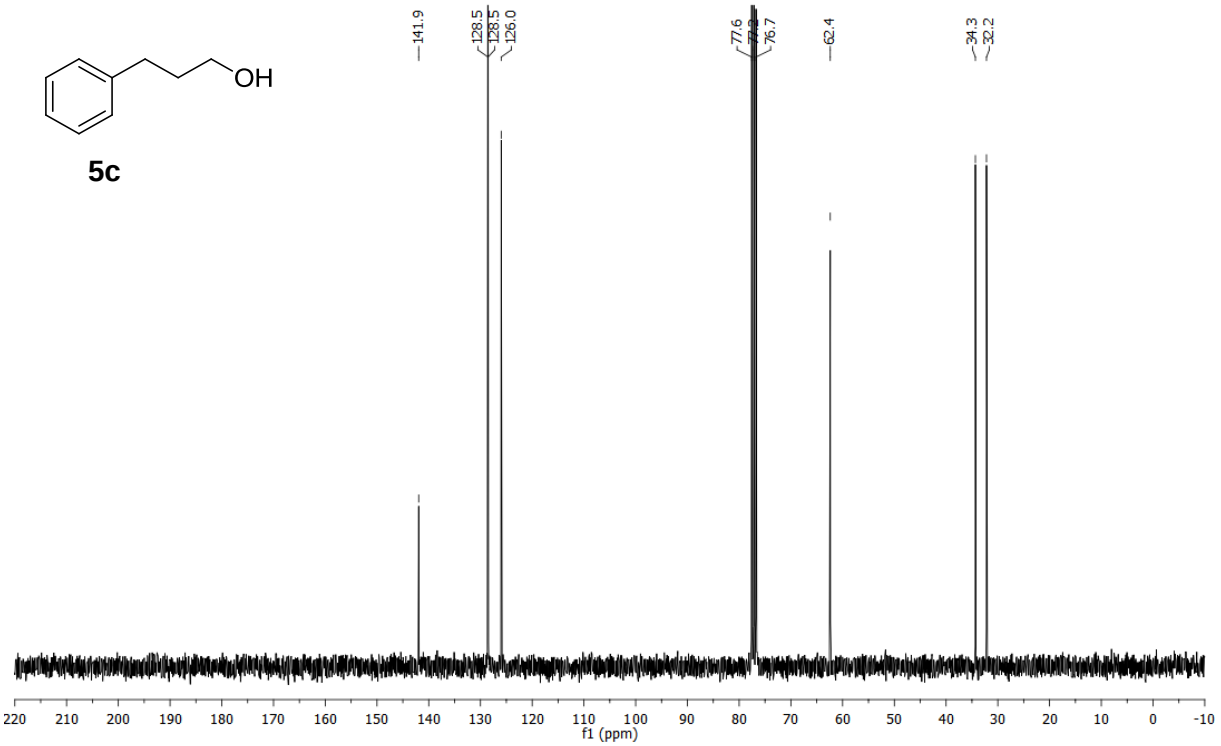
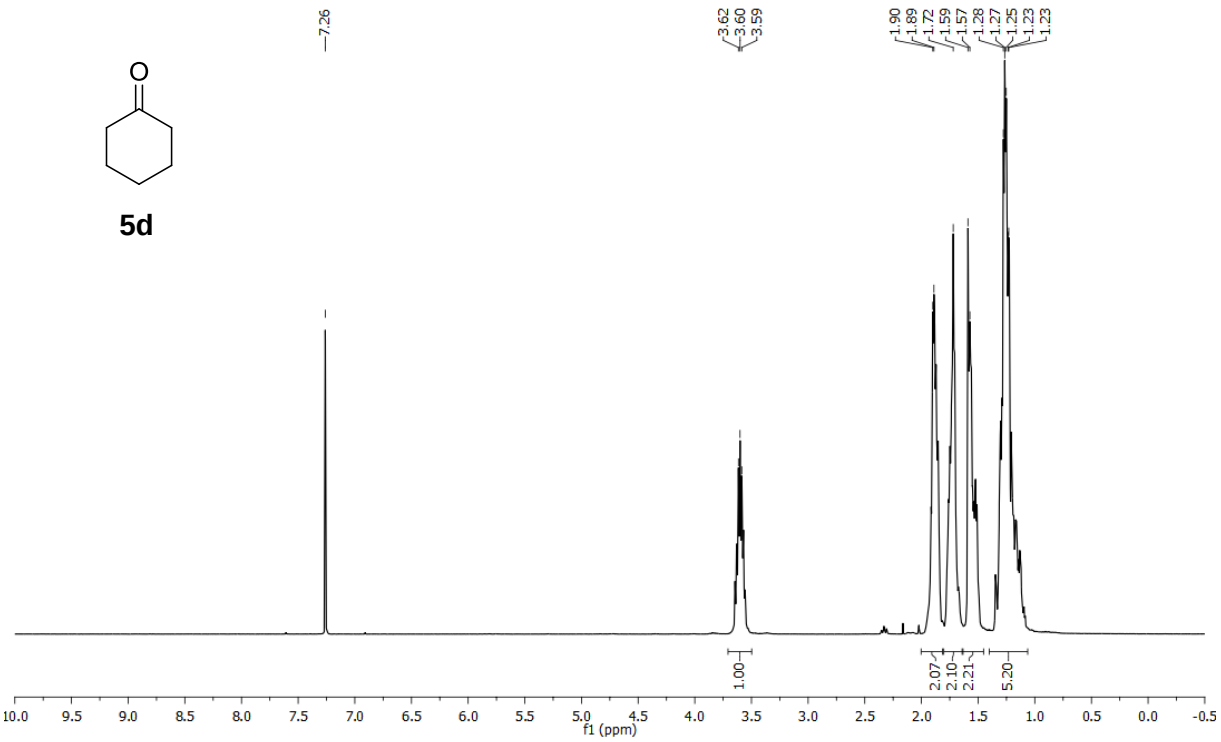


^{1}H-NMR (300 MHz, $CDCl_3$)



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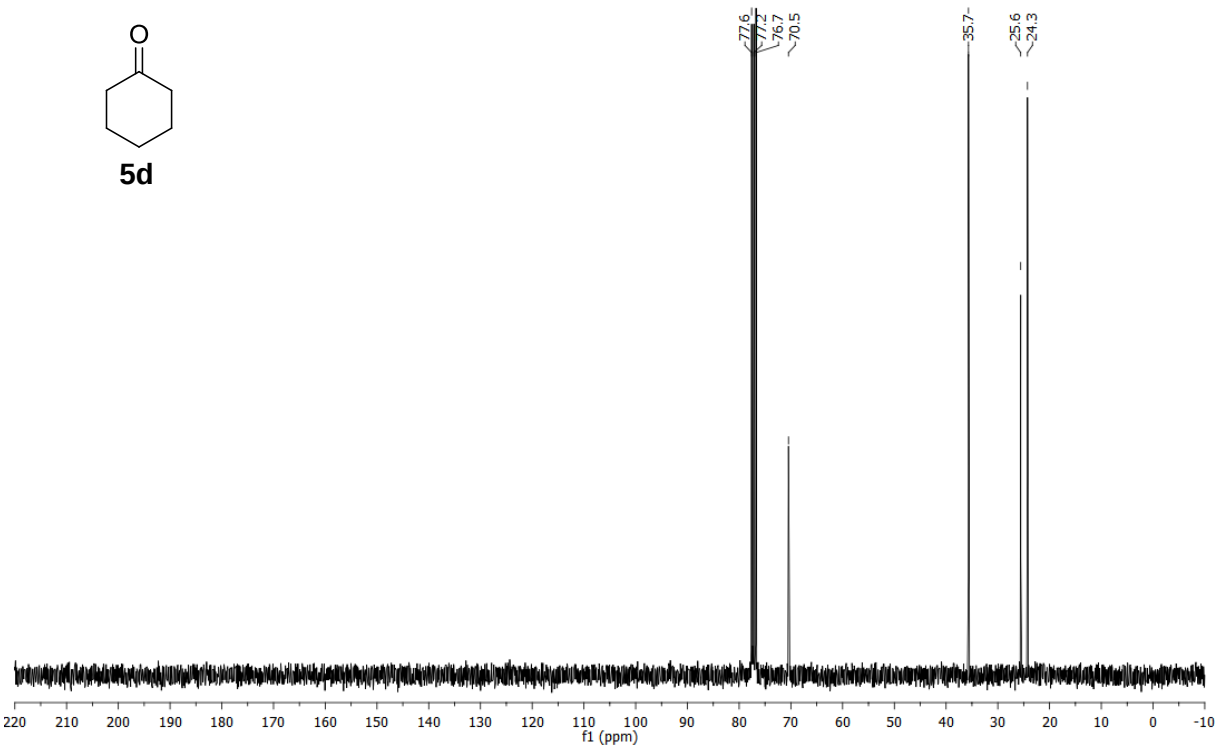
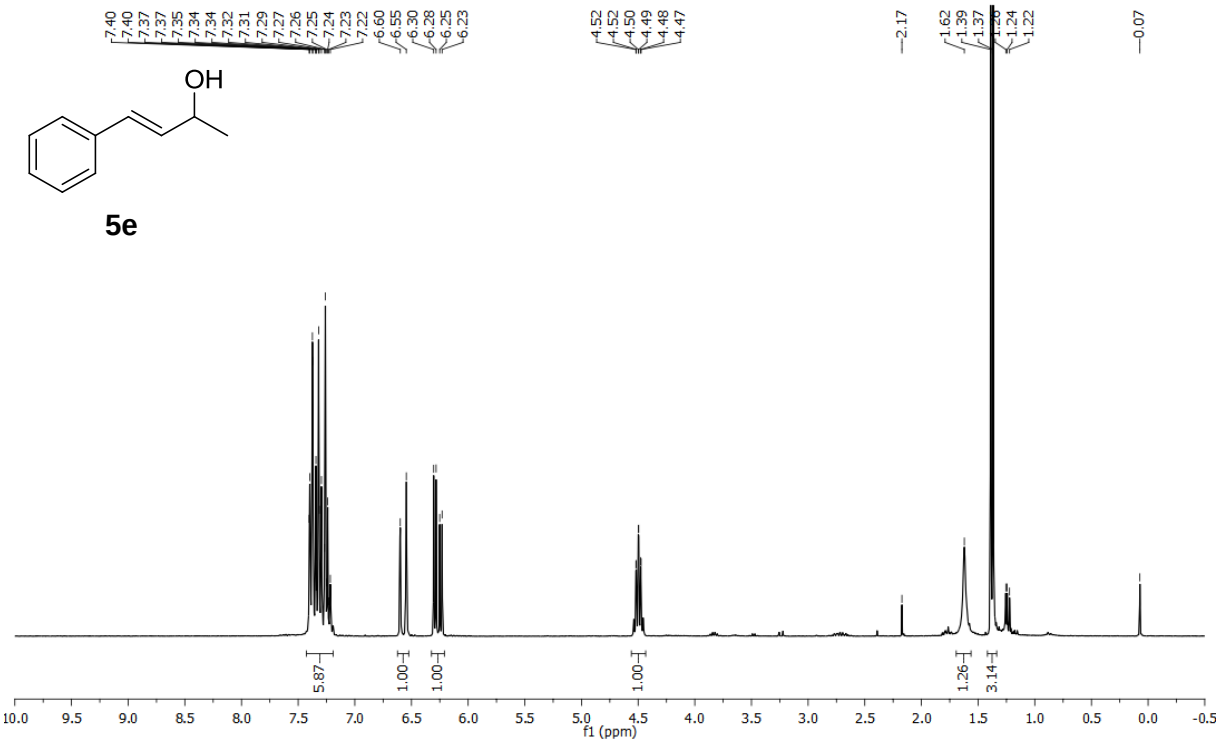


^{1}H-NMR (300 MHz, $CDCl_3$)



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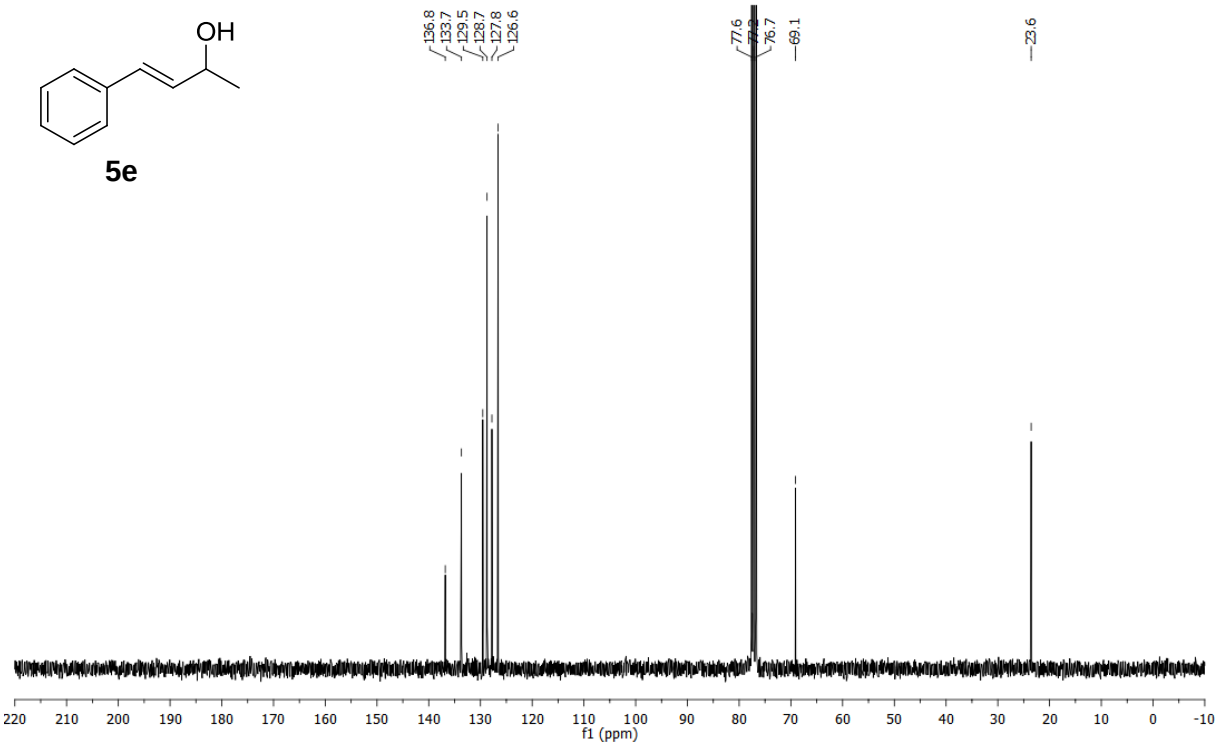
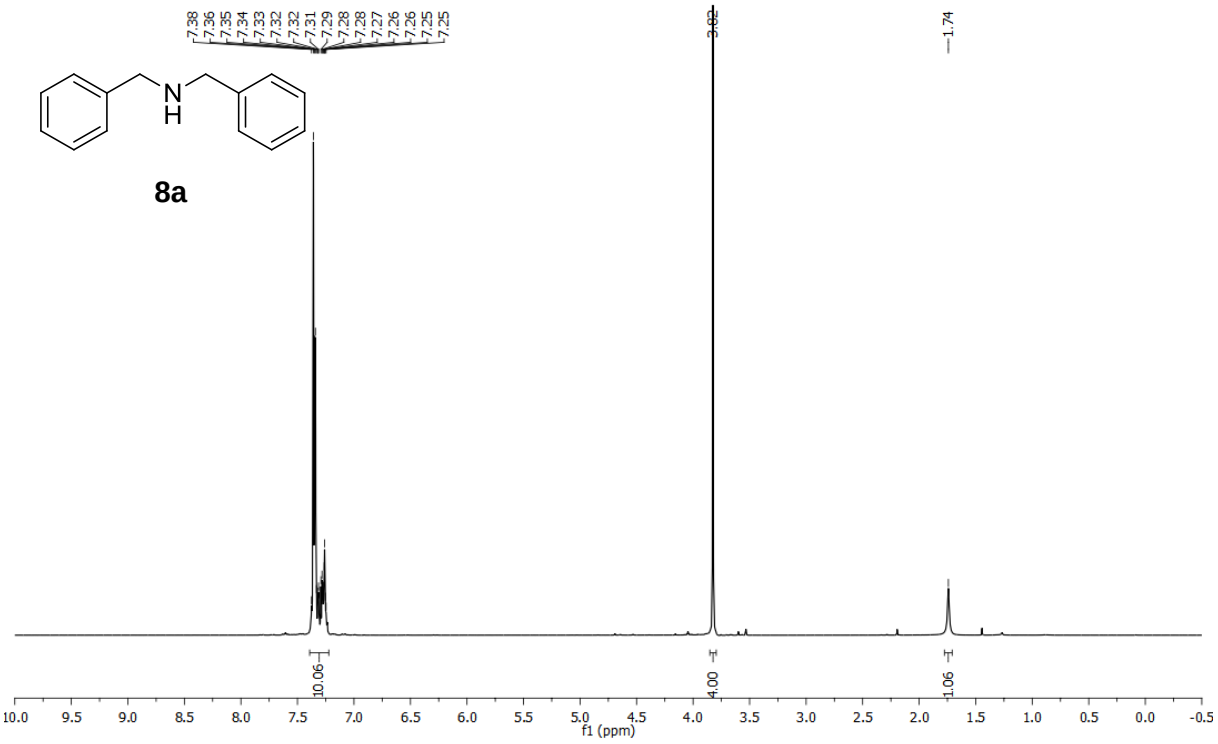


^{1}H-NMR (300 MHz, $CDCl_3$)



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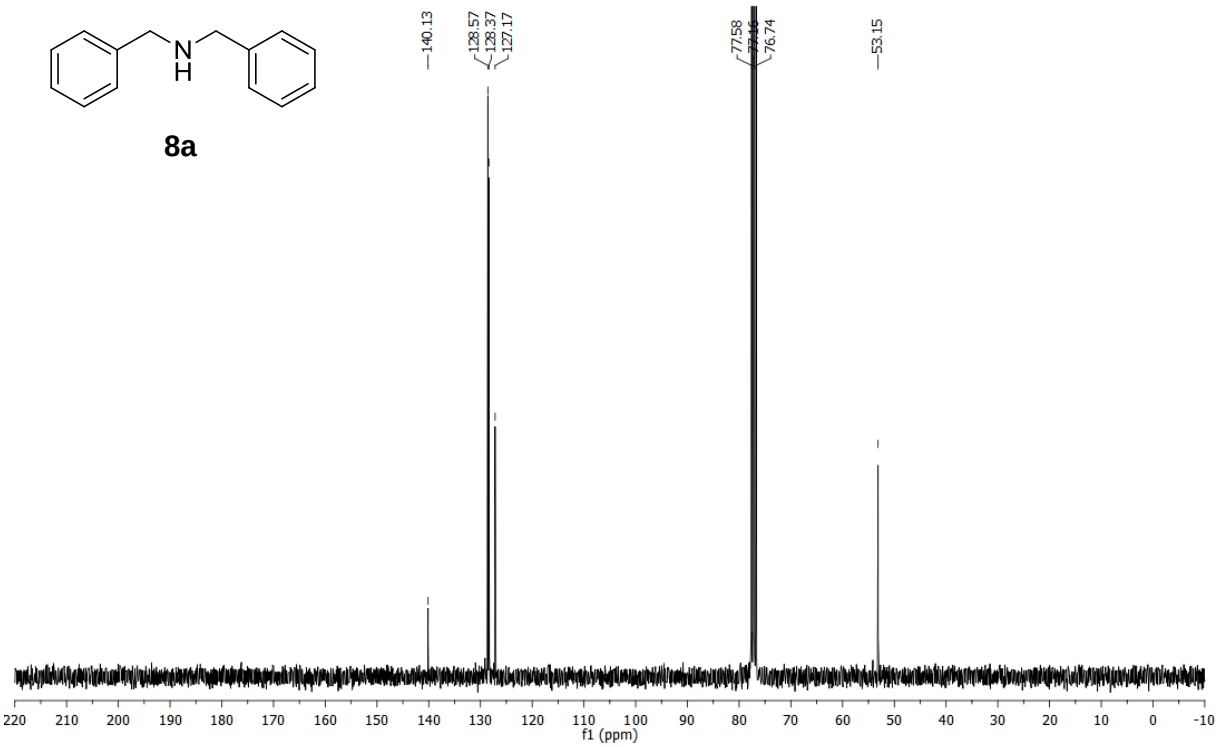
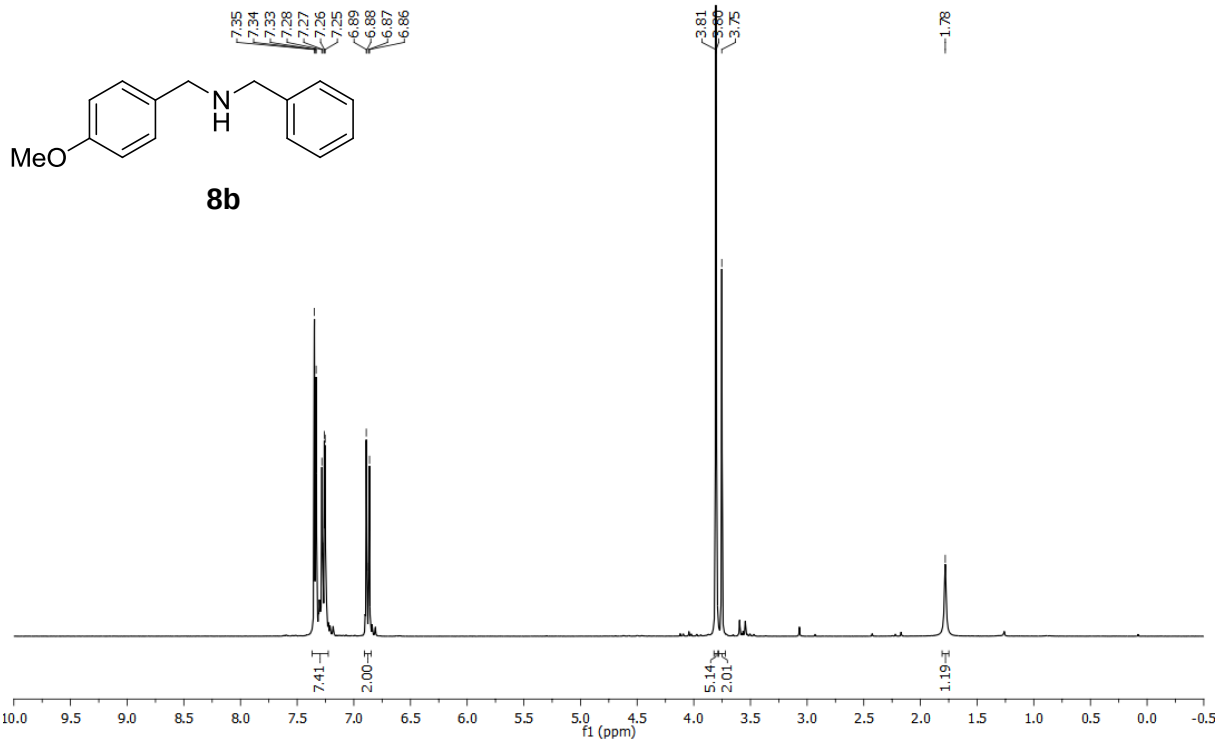


^{1}H-NMR (300 MHz, $CDCl_3$)



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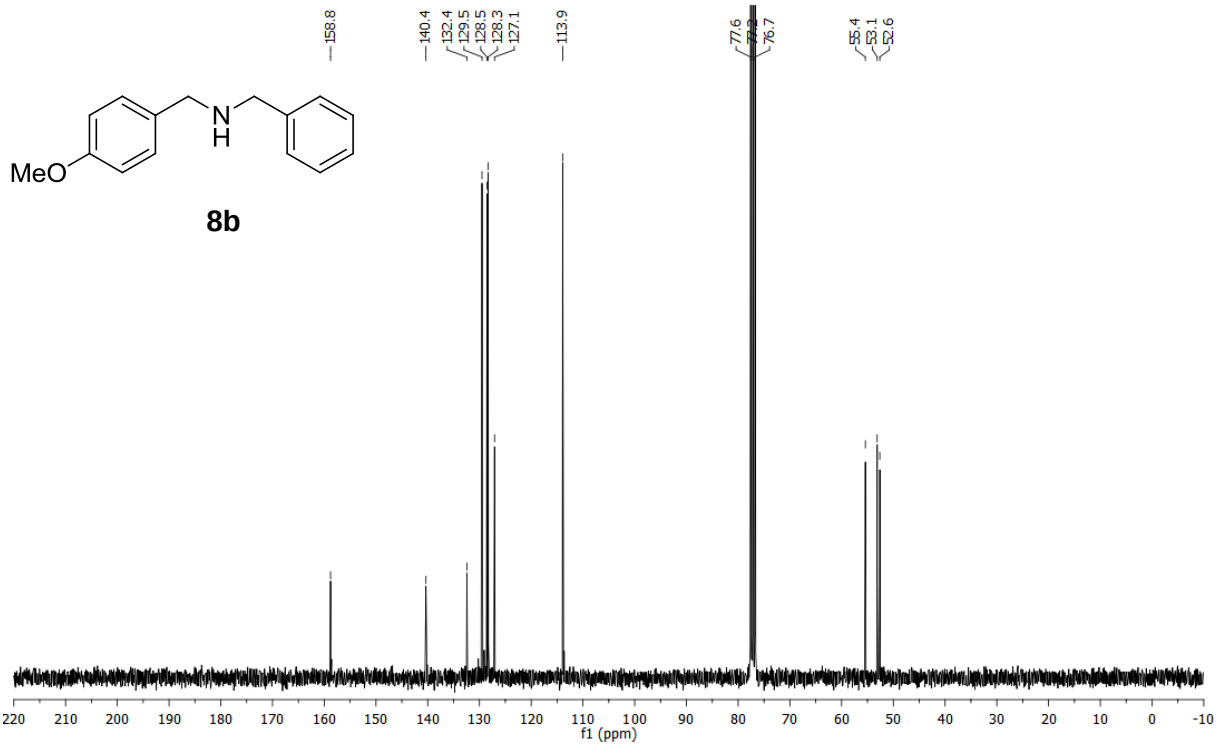

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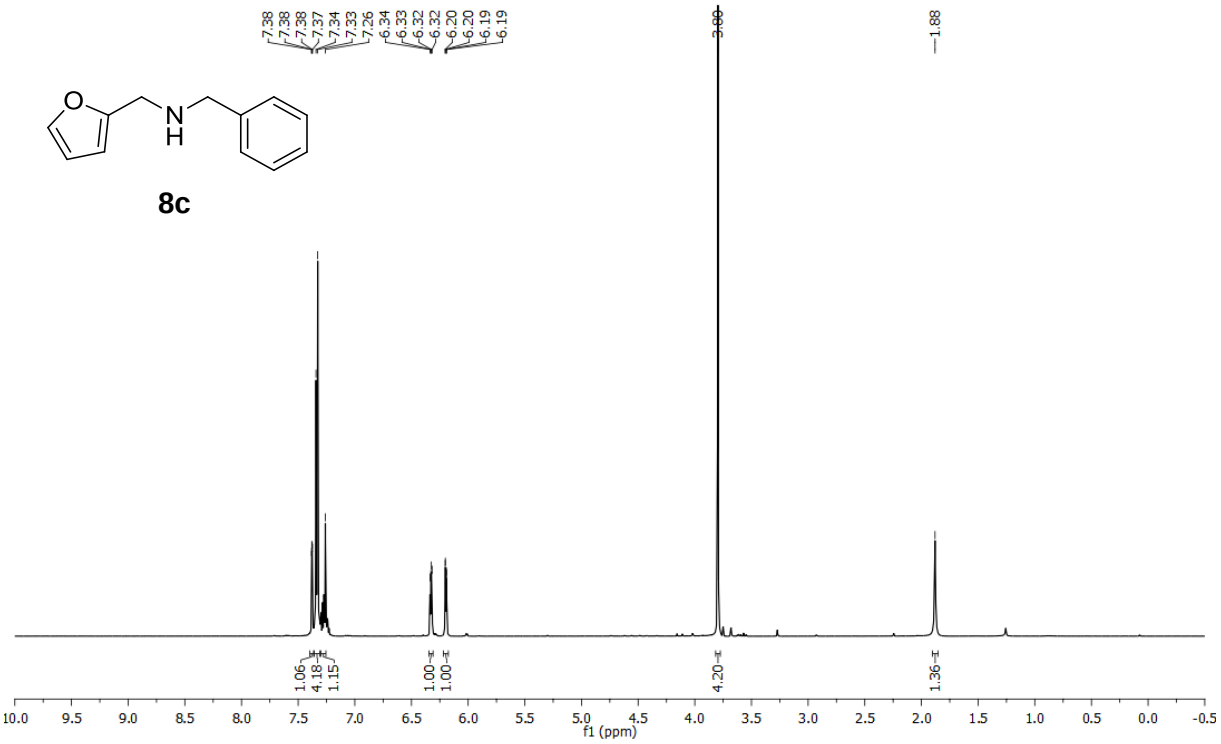
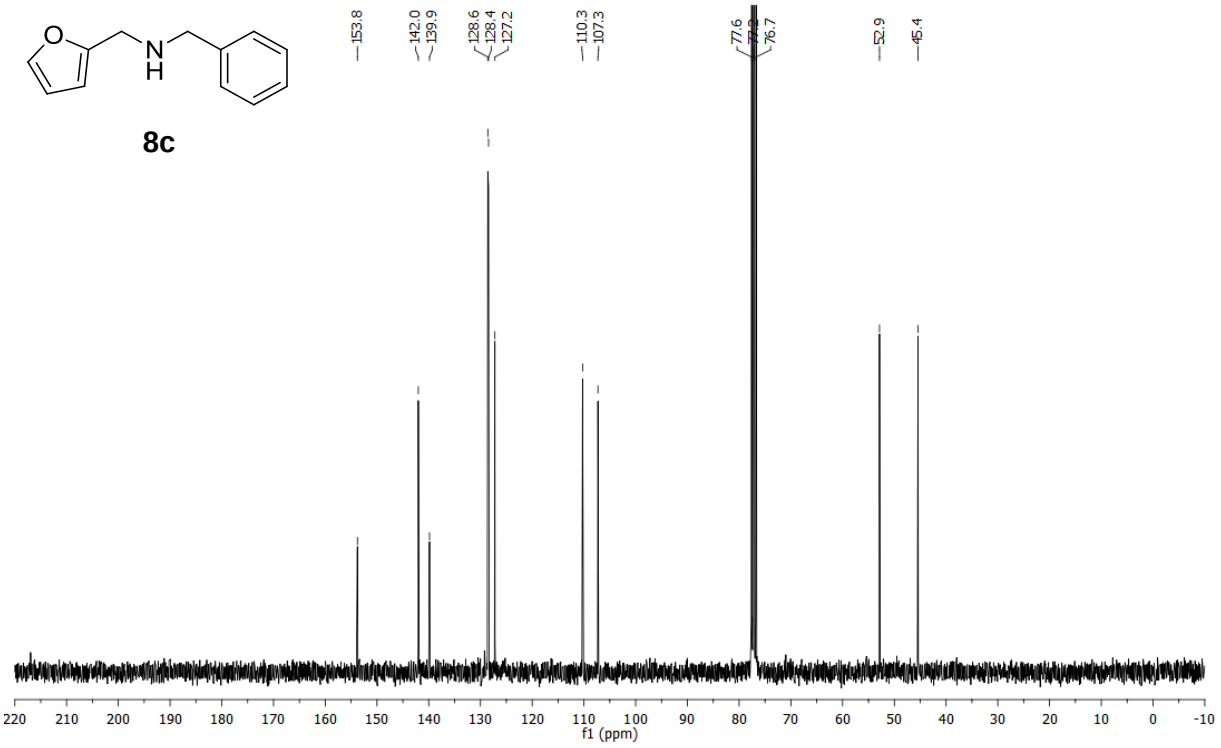
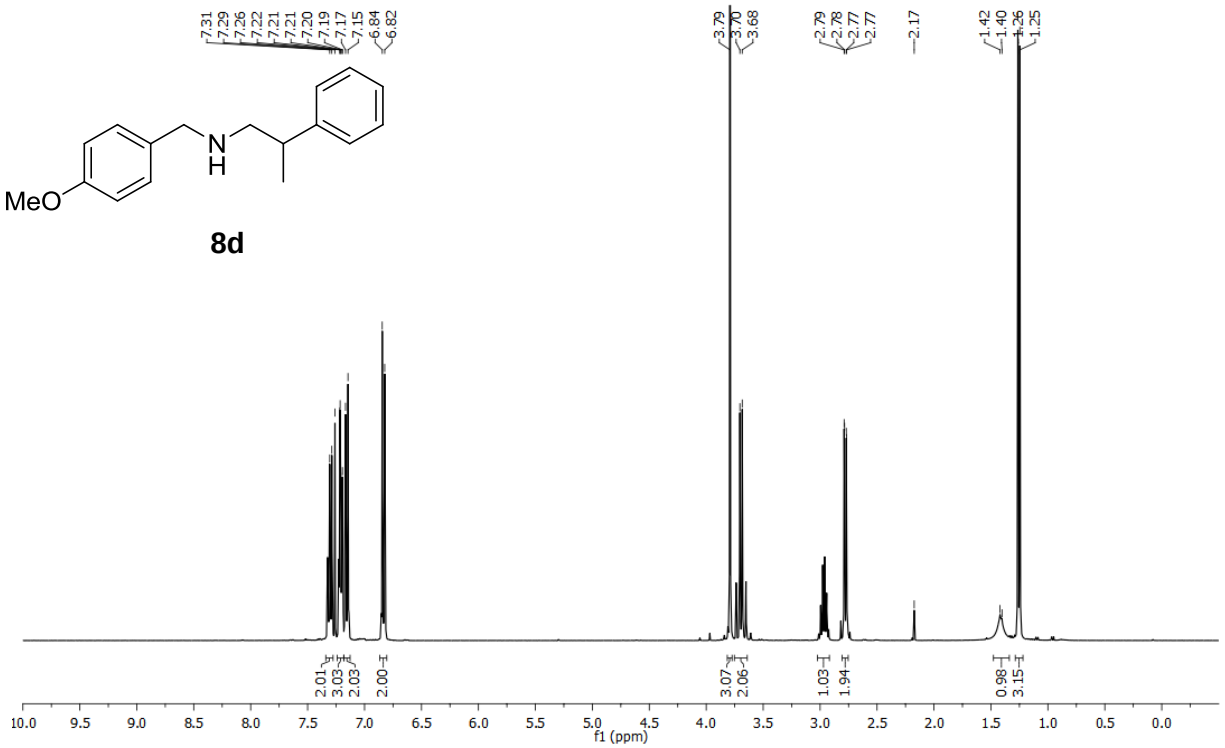


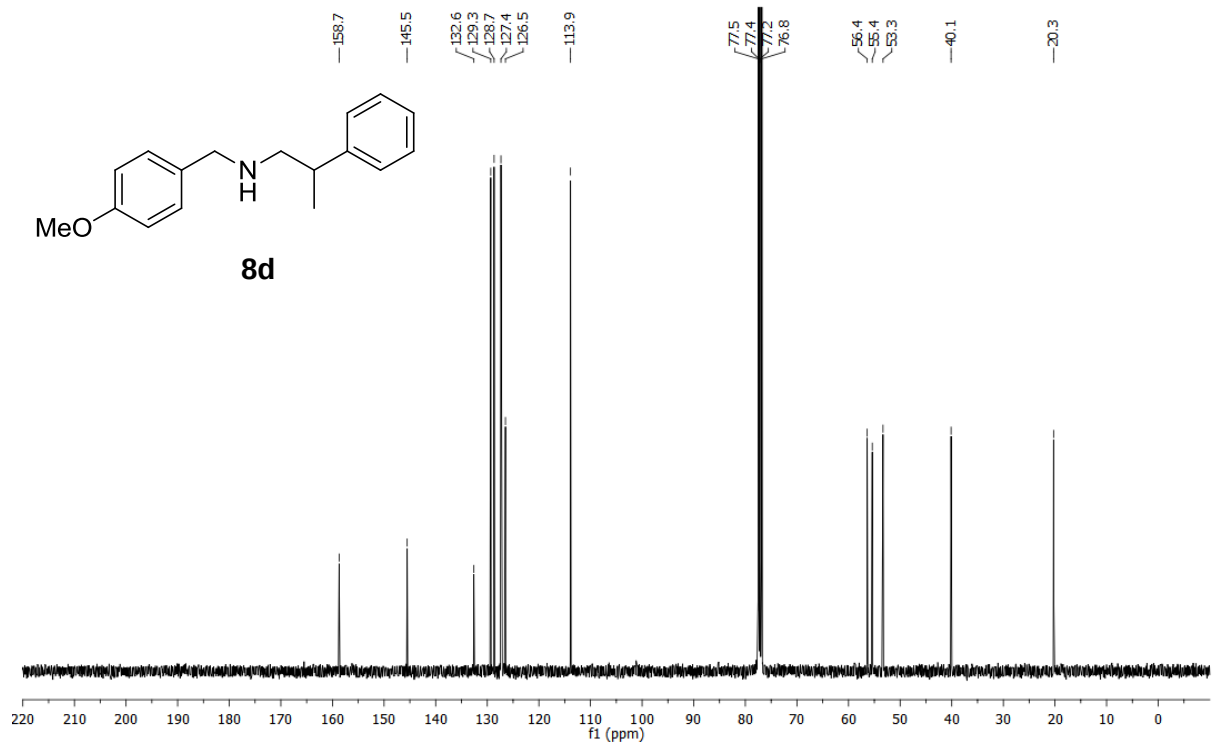
^{13}C-NMR (75 MHz, $CDCl_3$)



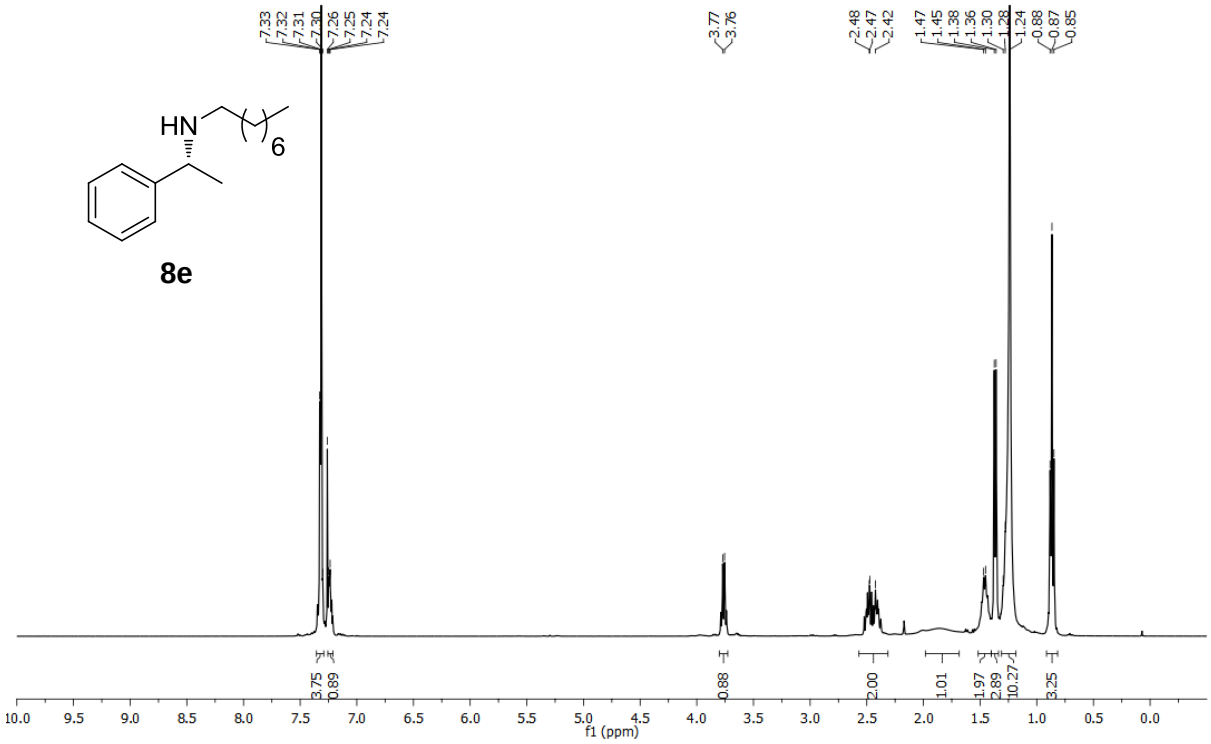
^{1}H-NMR (400 MHz, $CDCl_3$)



^{13}C-NMR (101 MHz, $CDCl_3$)



^{1}H-NMR (400 MHz, $CDCl_3$)



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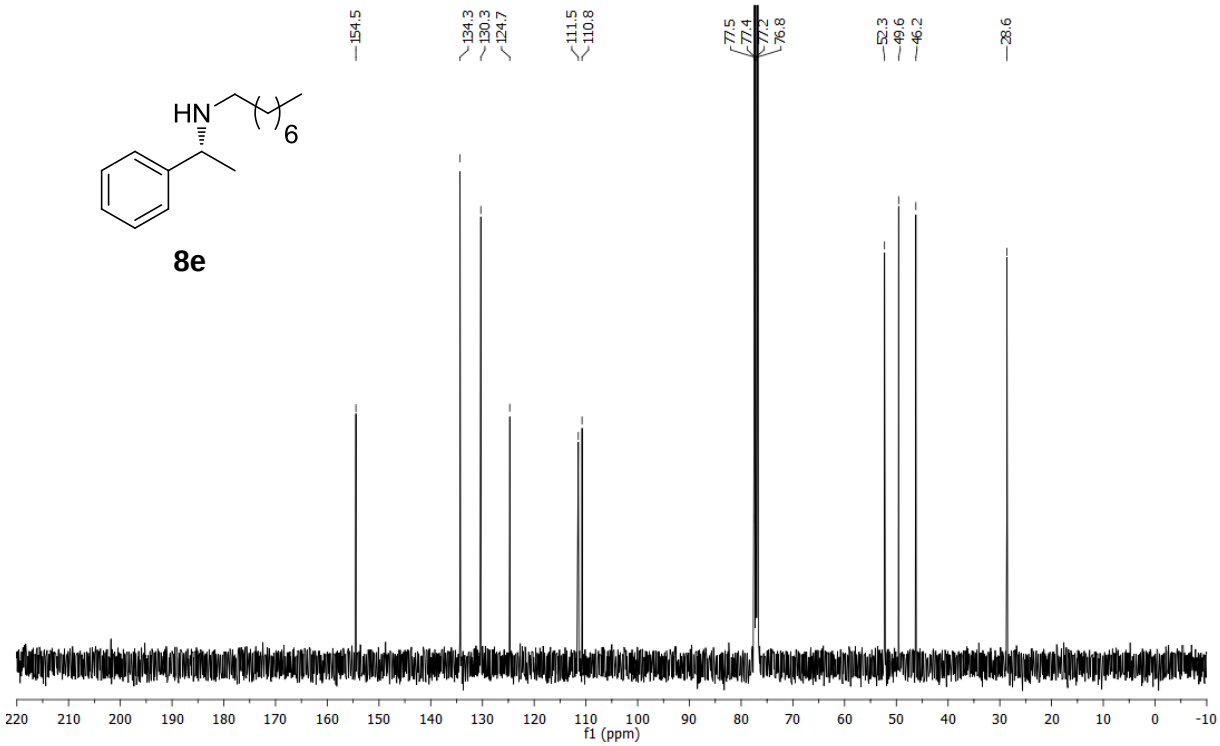

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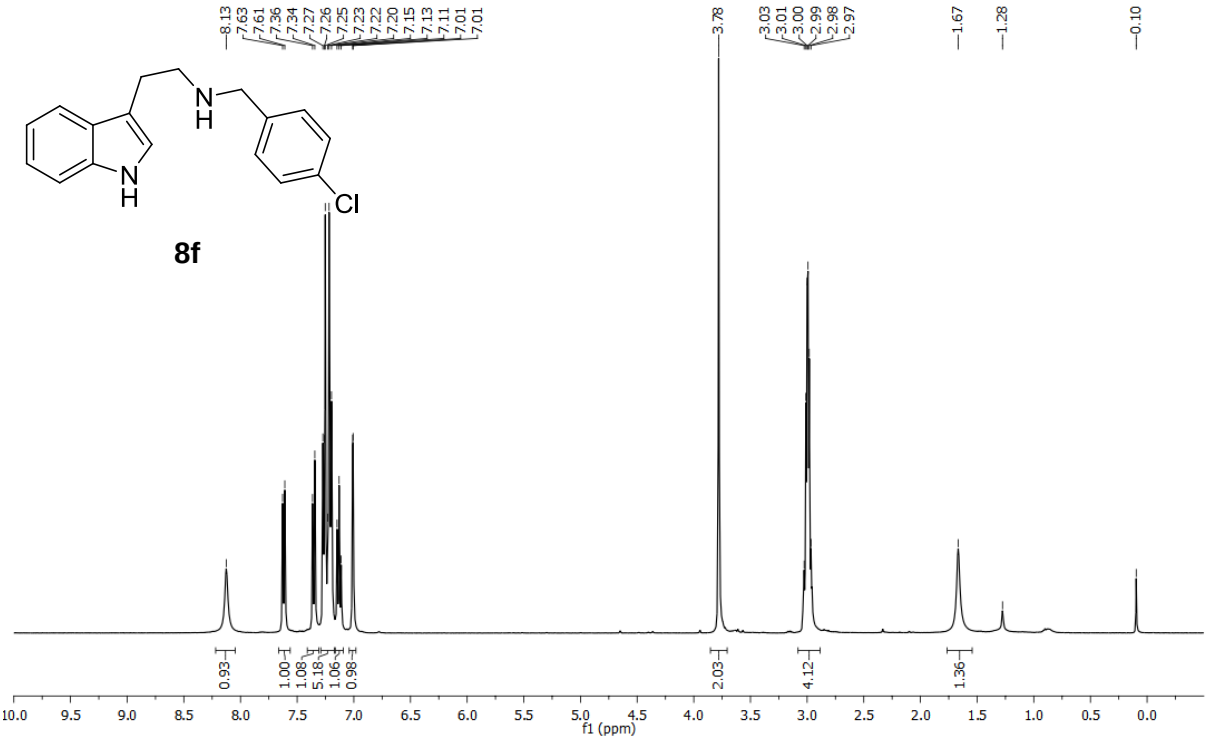

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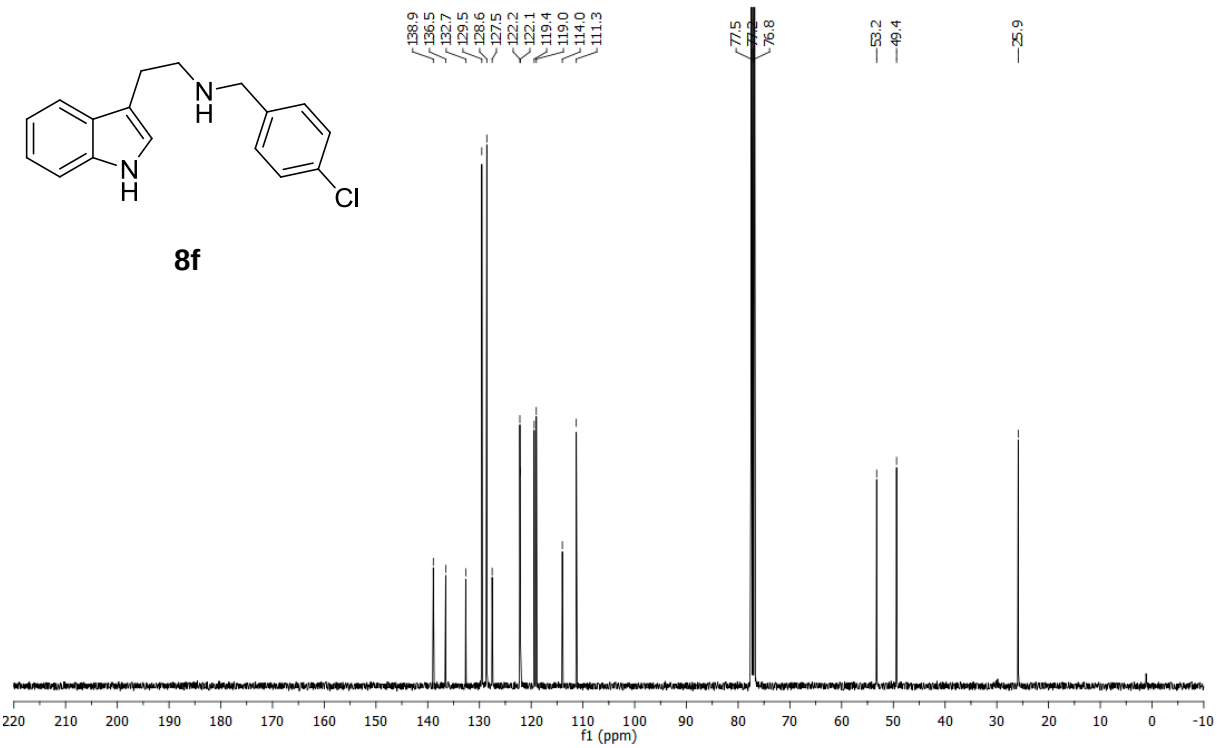

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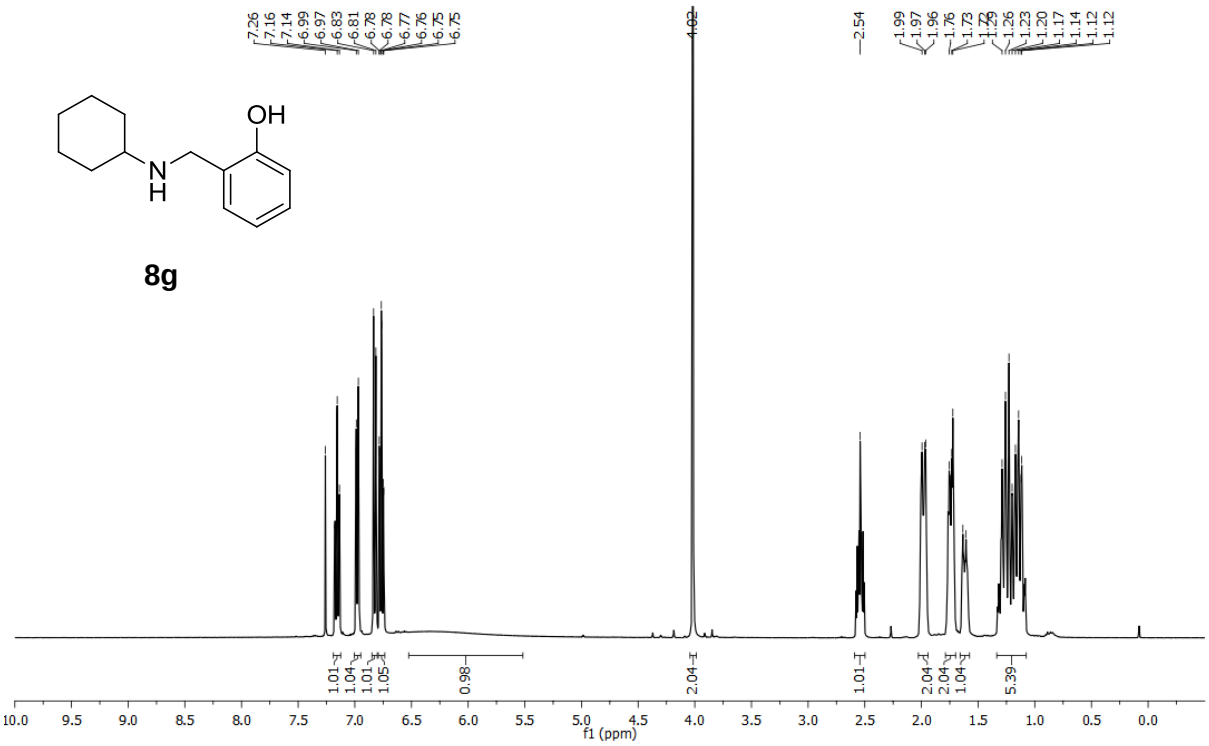

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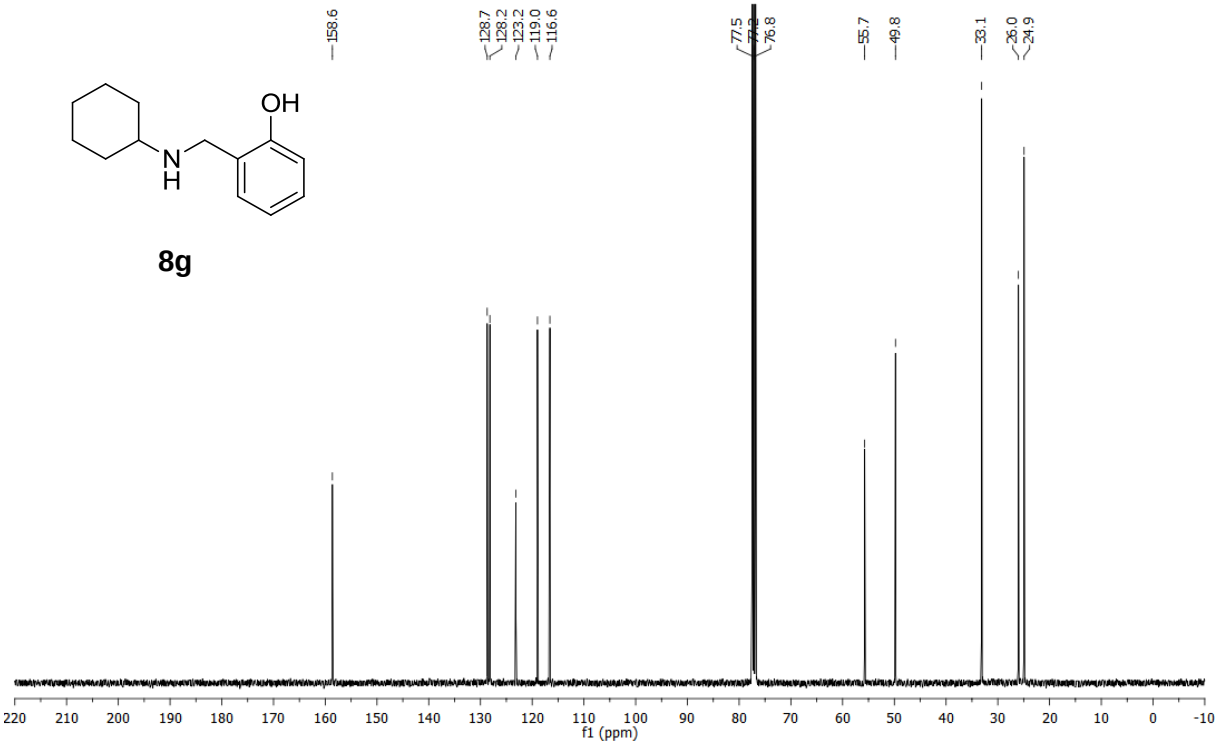

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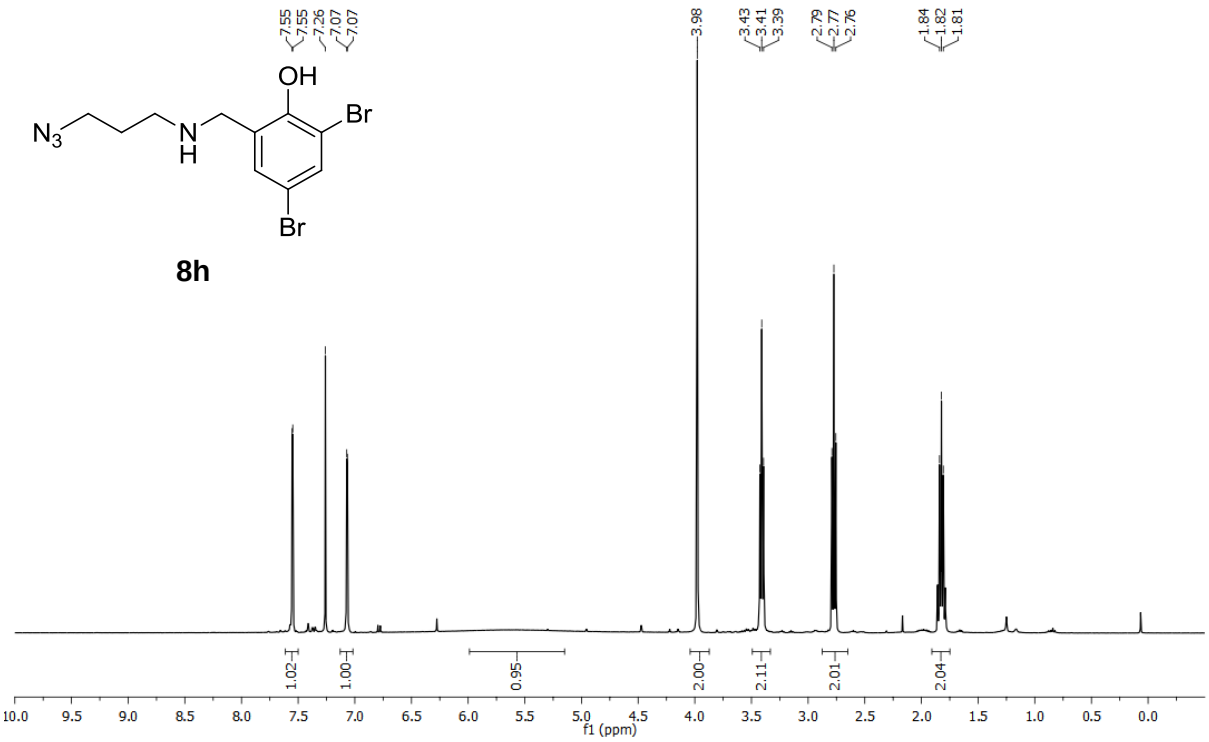

8h

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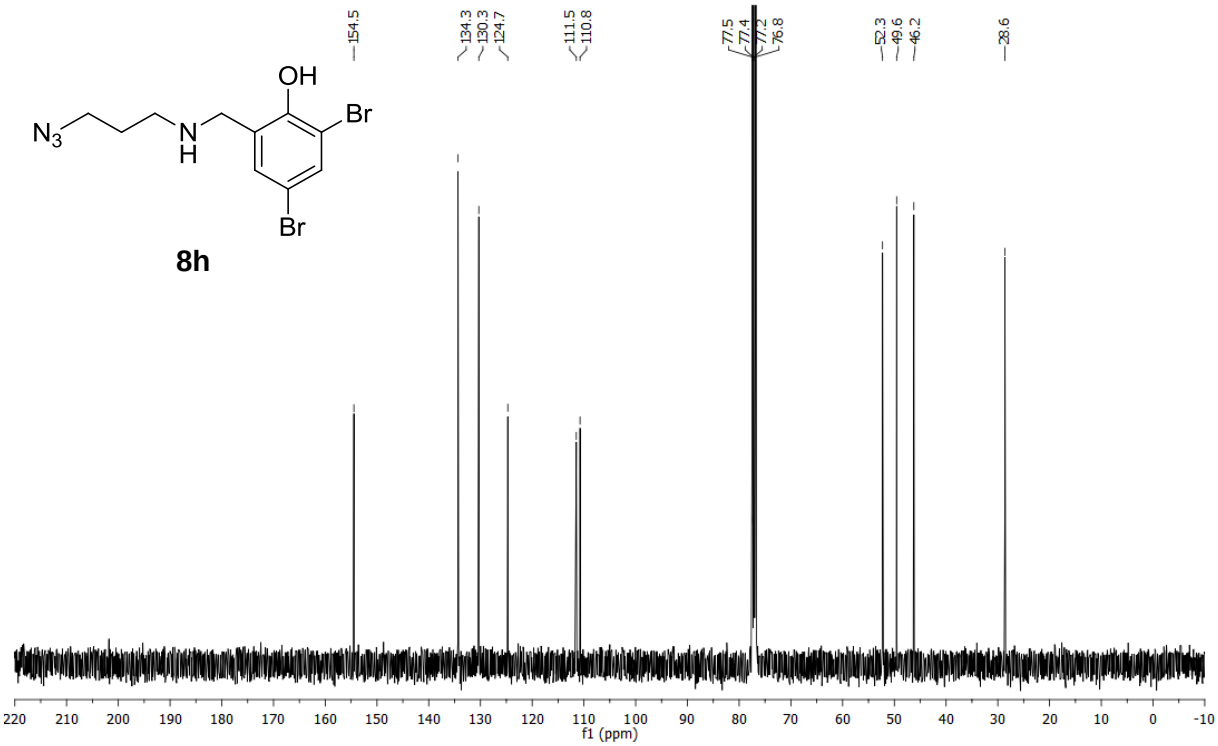
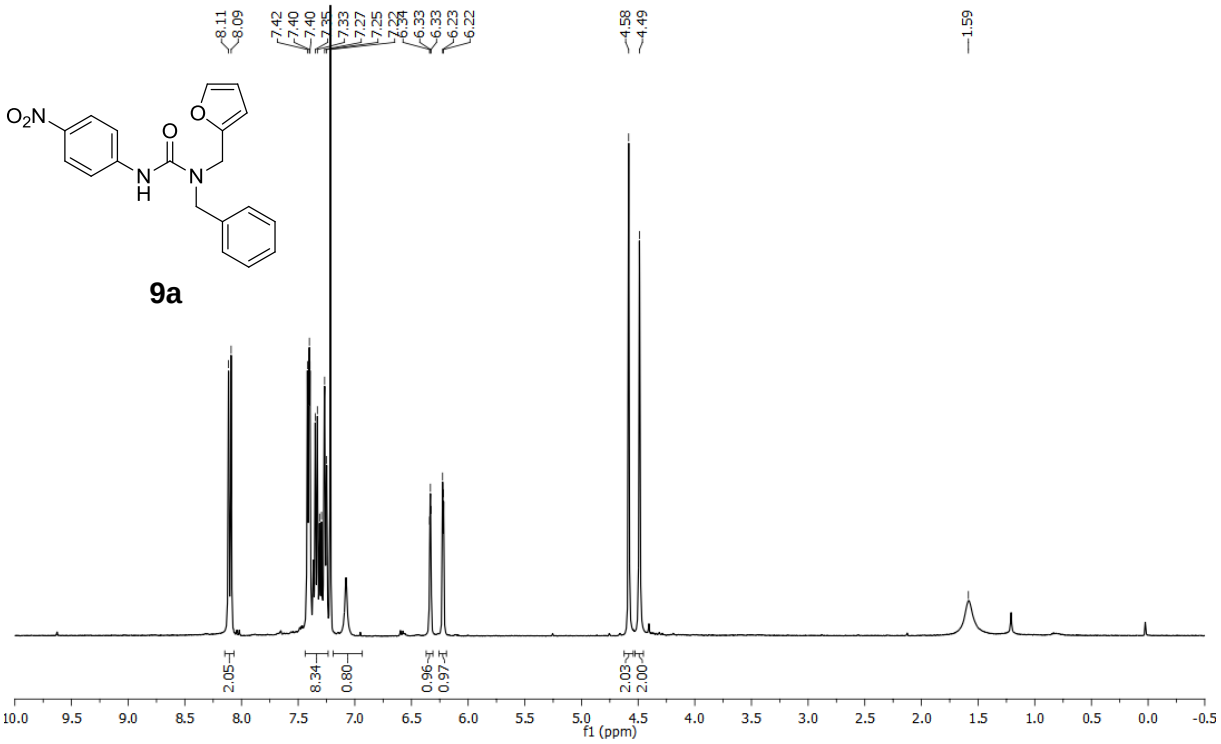


8h

^{1}H-NMR (400 MHz, $CDCl_3$)



9a

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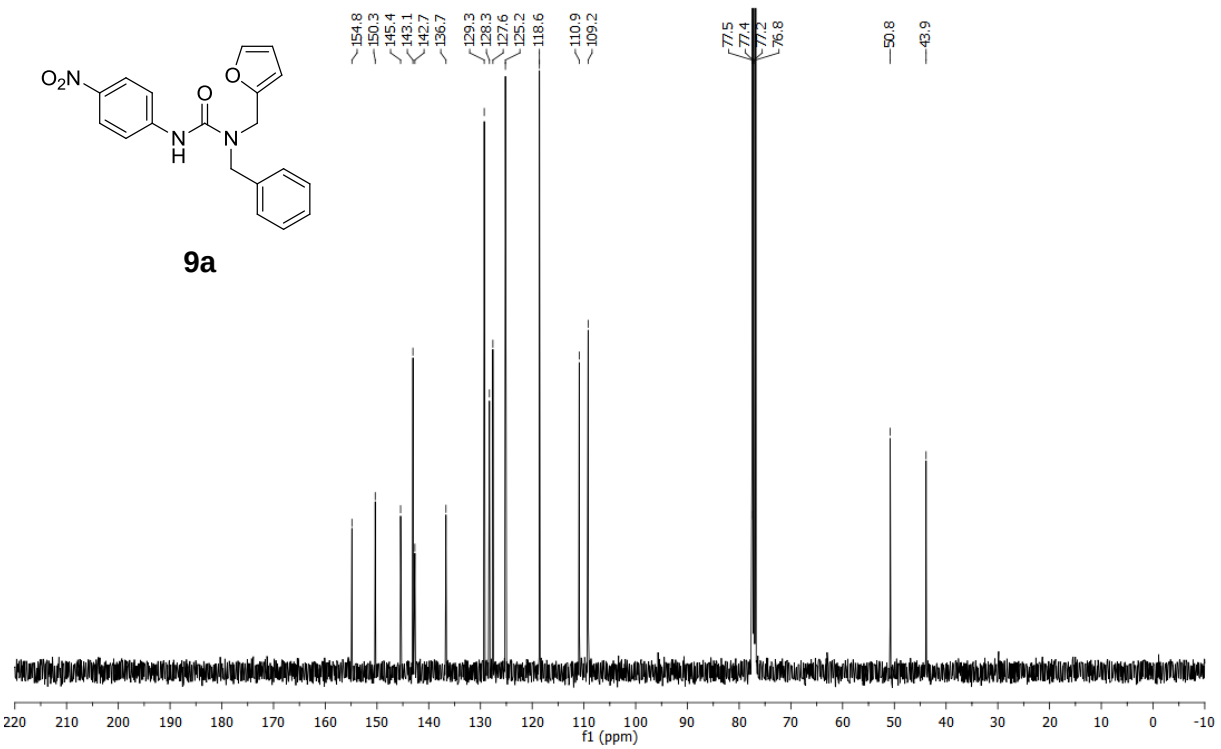

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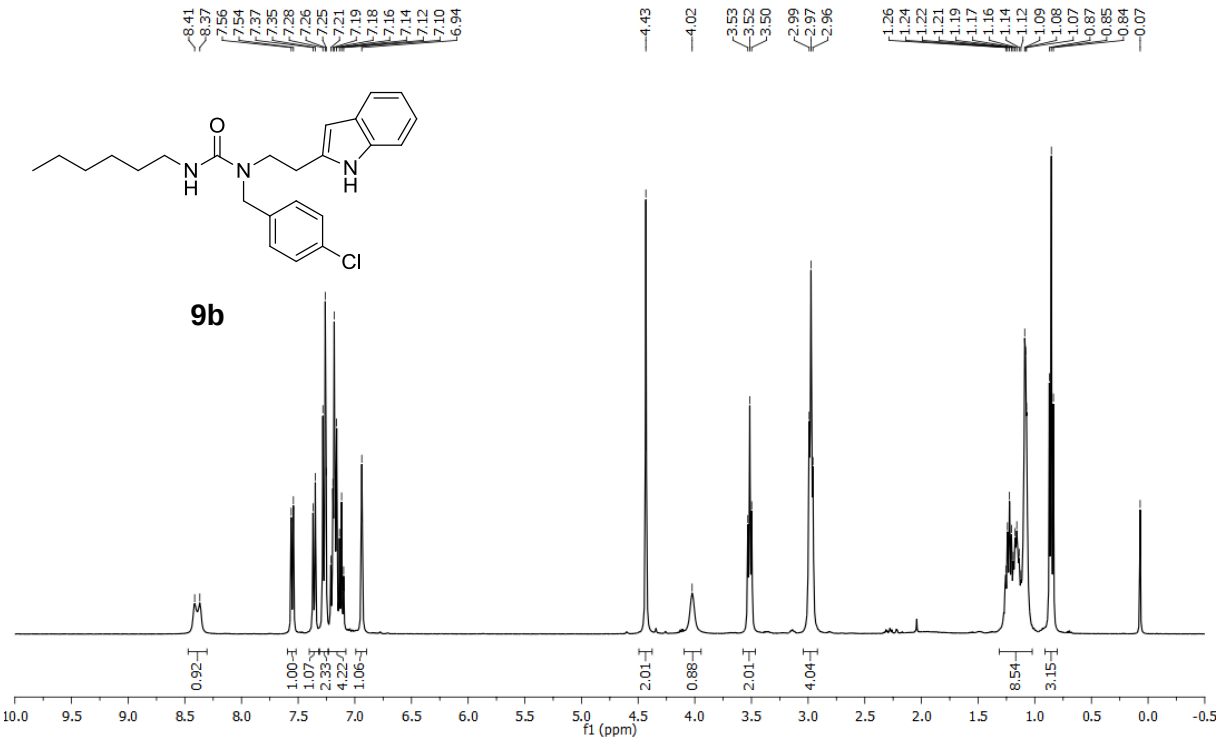

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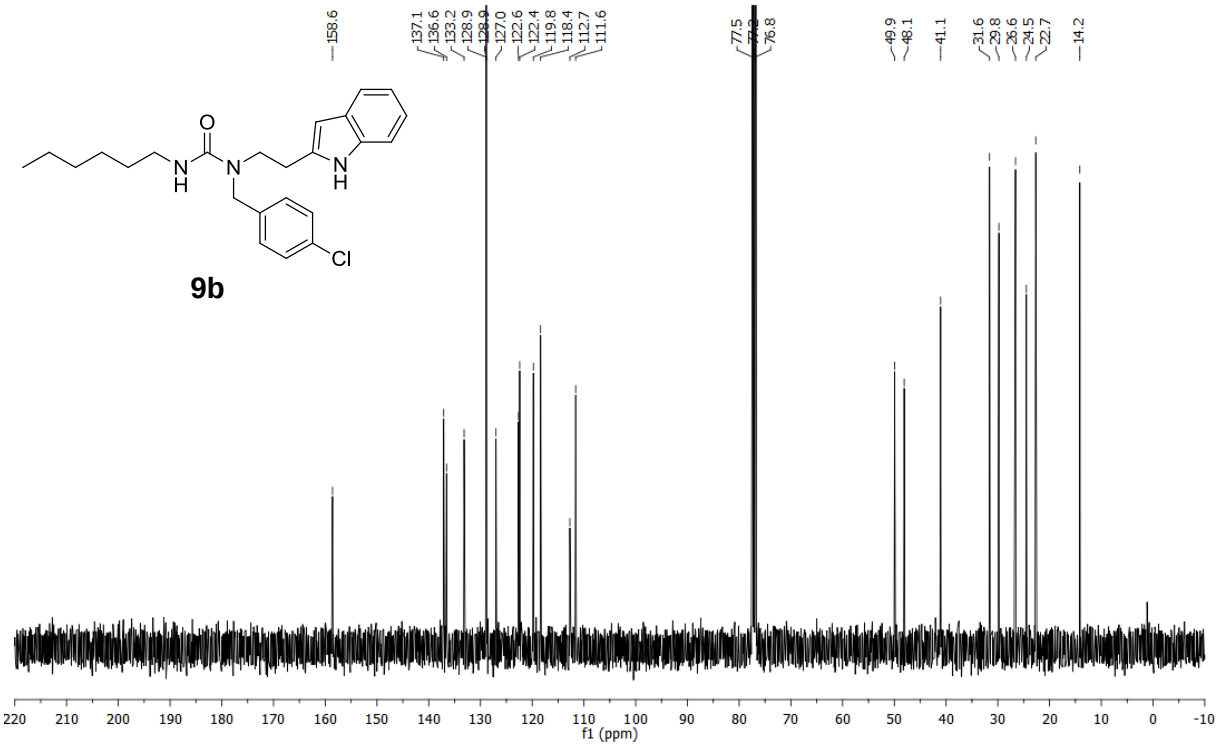
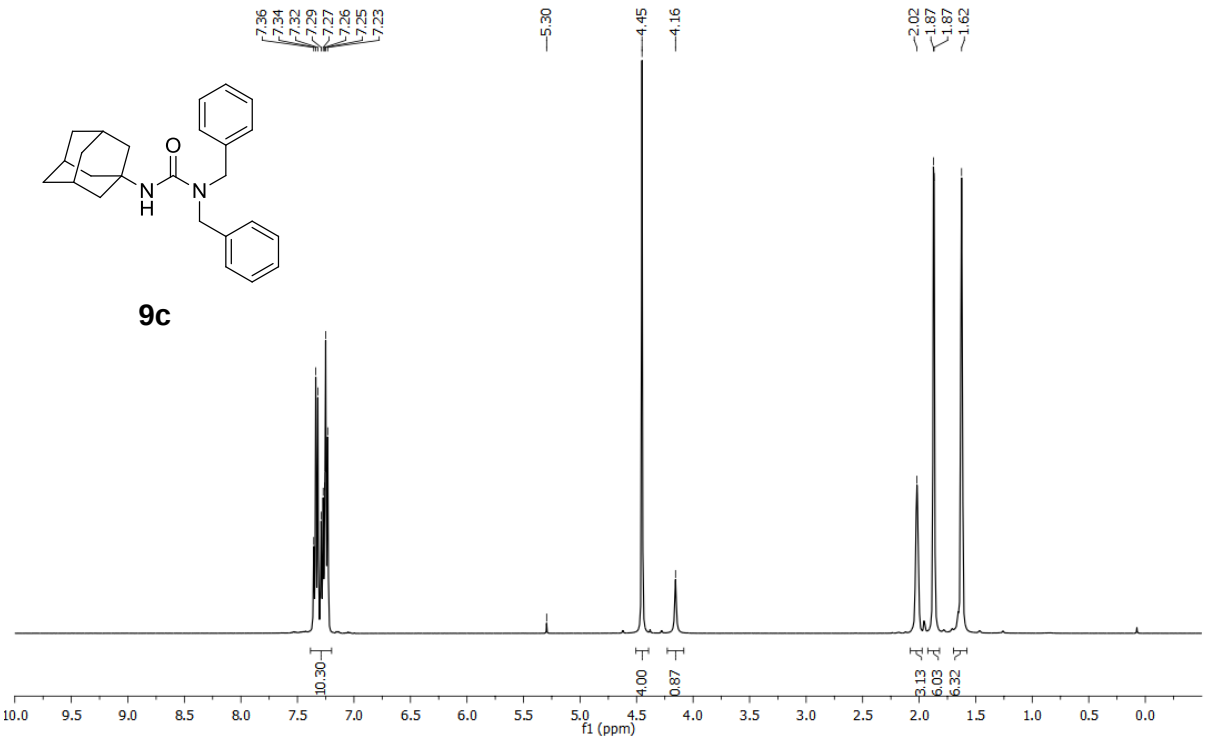


^{1}H-NMR (400 MHz, $CDCl_3$)



9c

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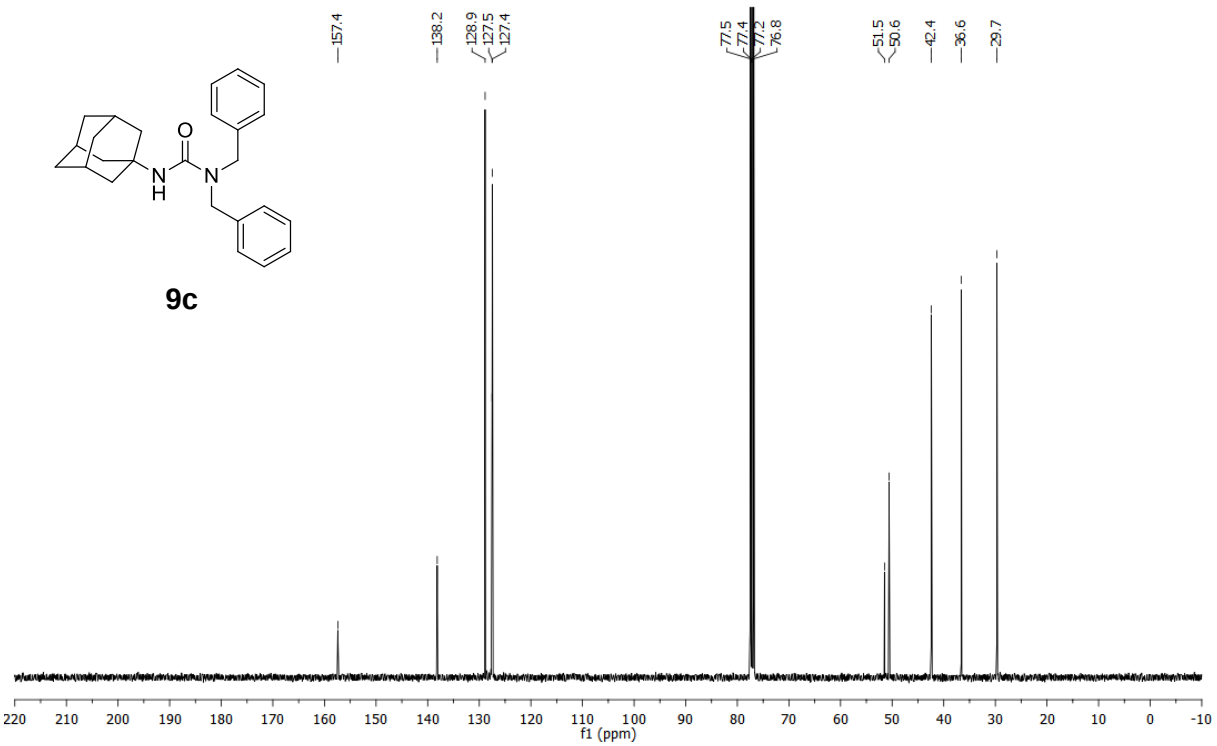

9c

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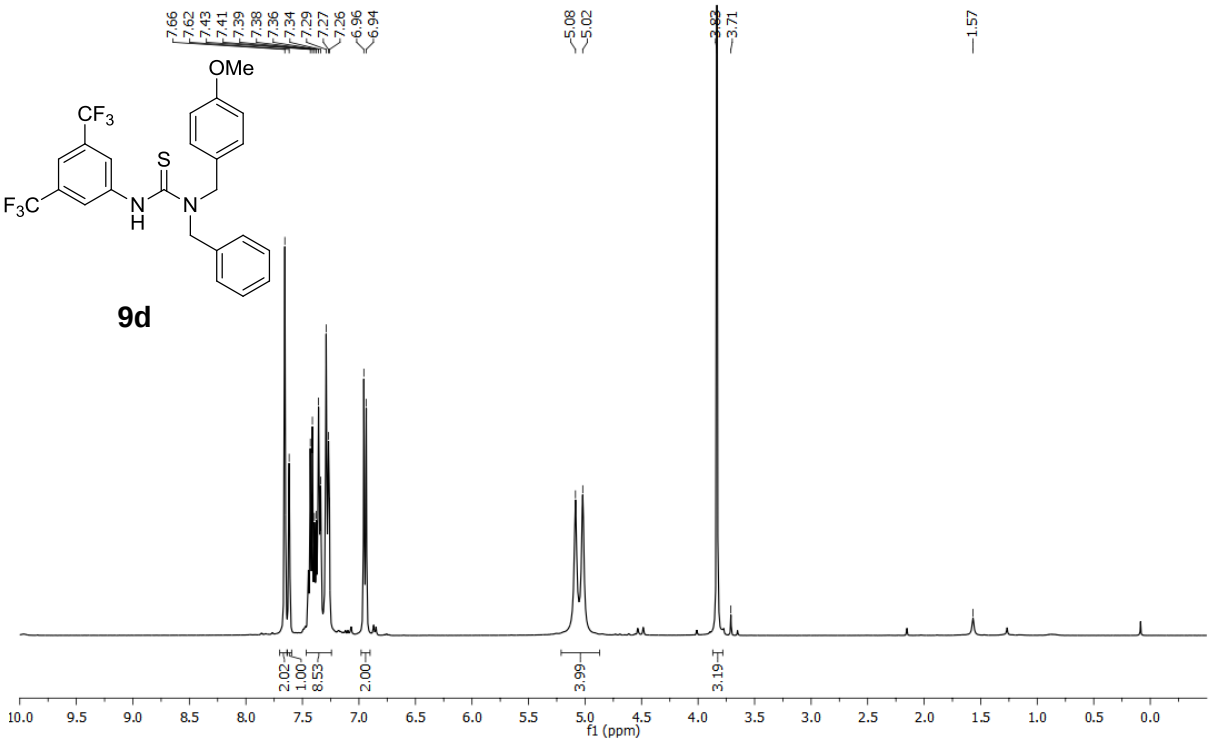

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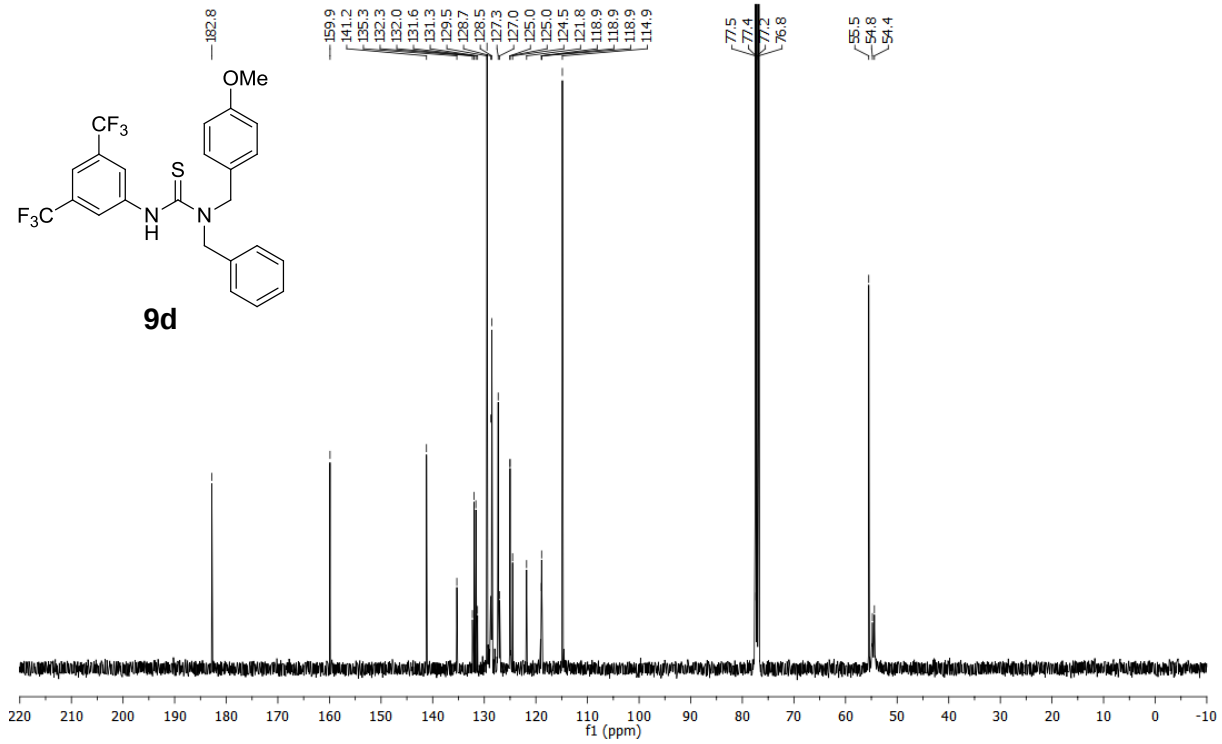

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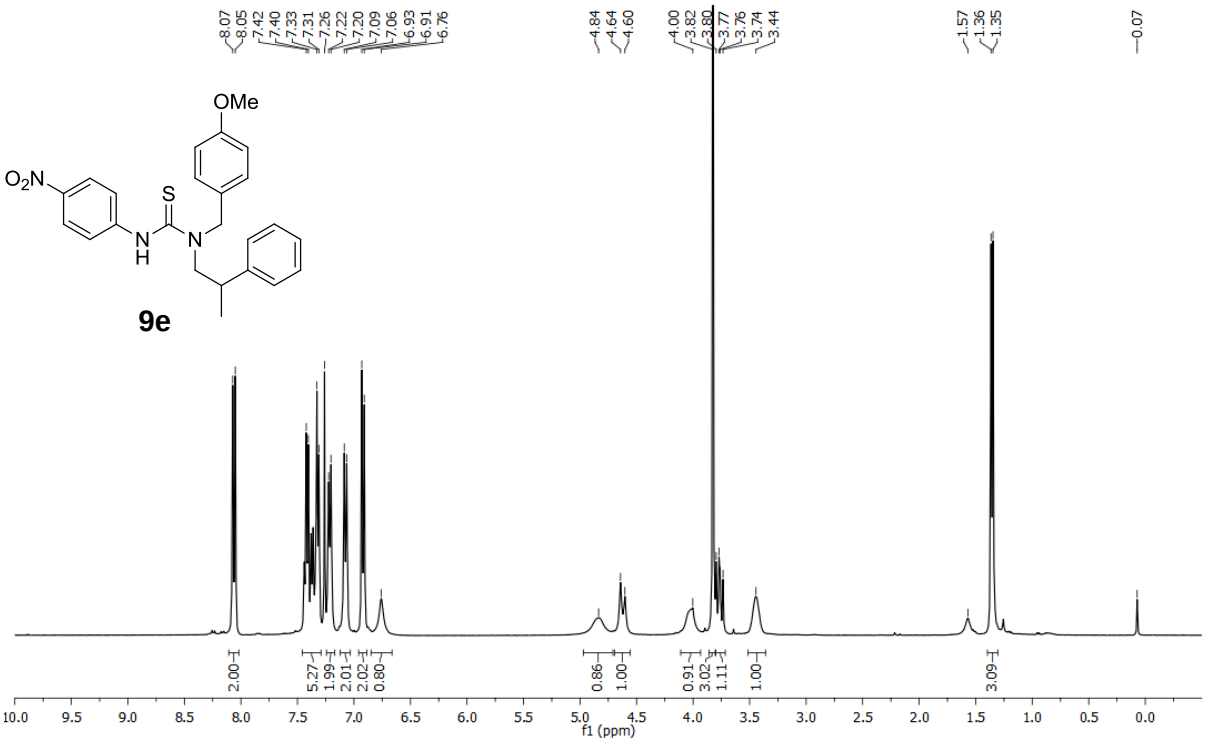

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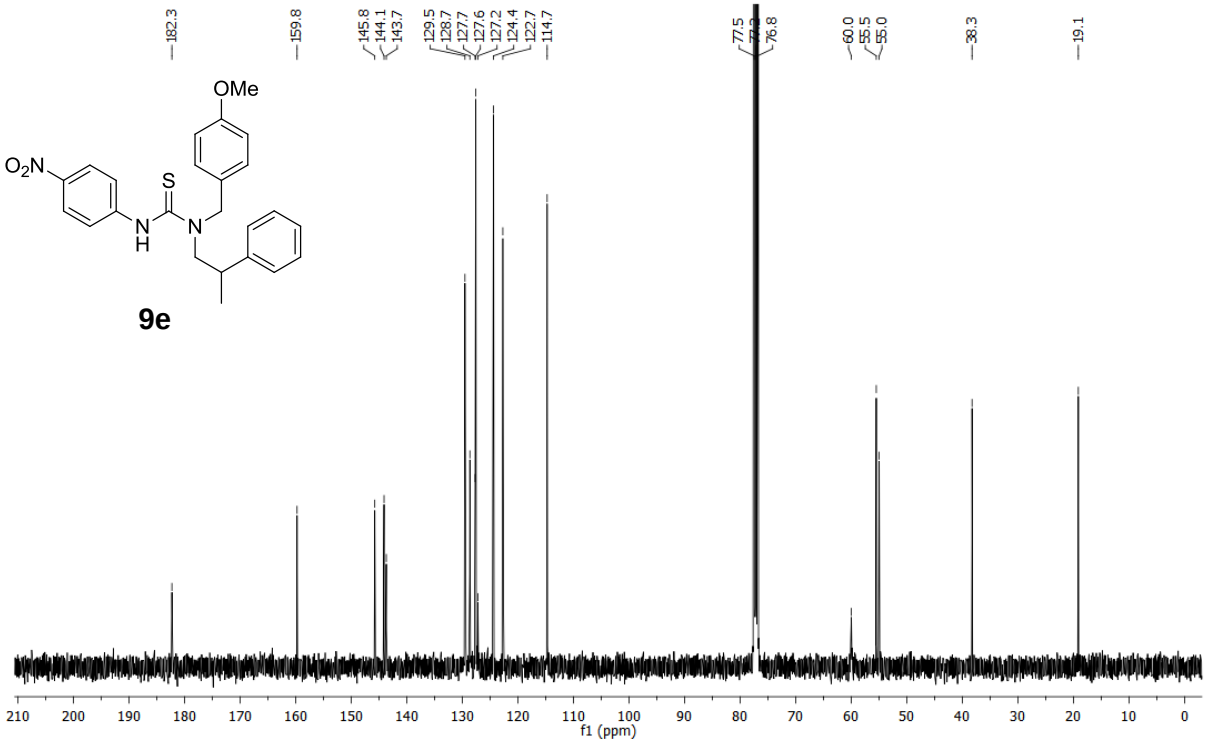

^{1}H-NMR (300 MHz, $CDCl_3$)