

Supplementary Material

Ultrasound-assisted synthesis of imidazo[1,2-*a*]pyridines and sequential one-pot preparation of 3-selanyl-imidazo[1,2-*a*]pyridine derivatives

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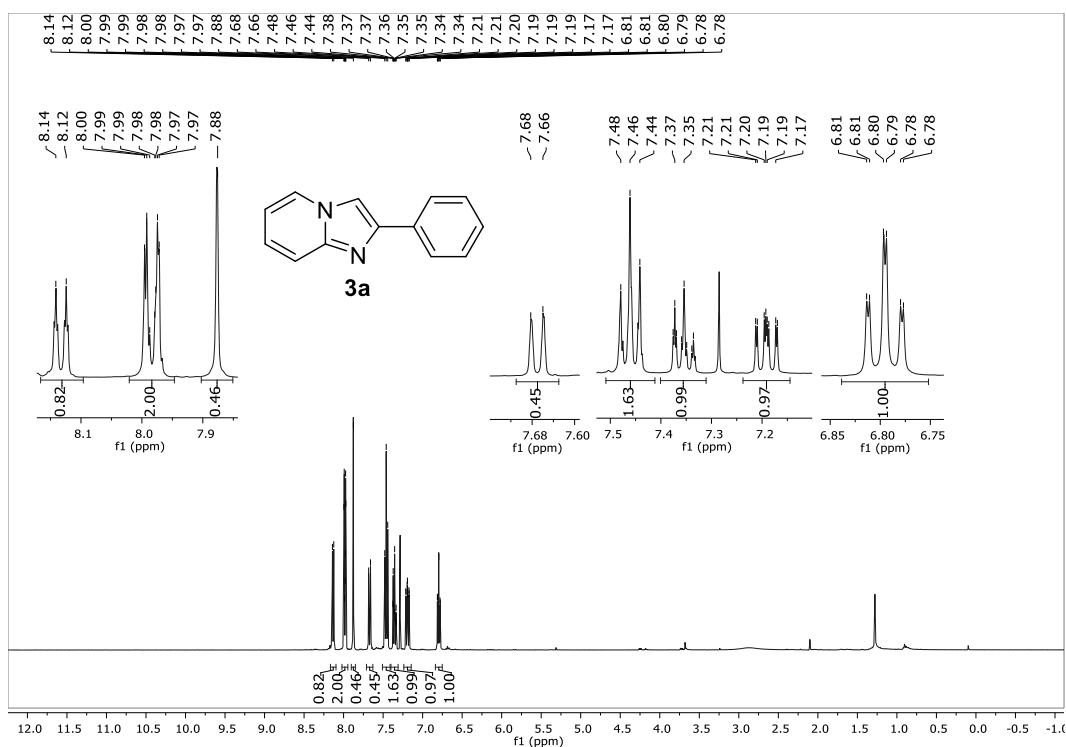
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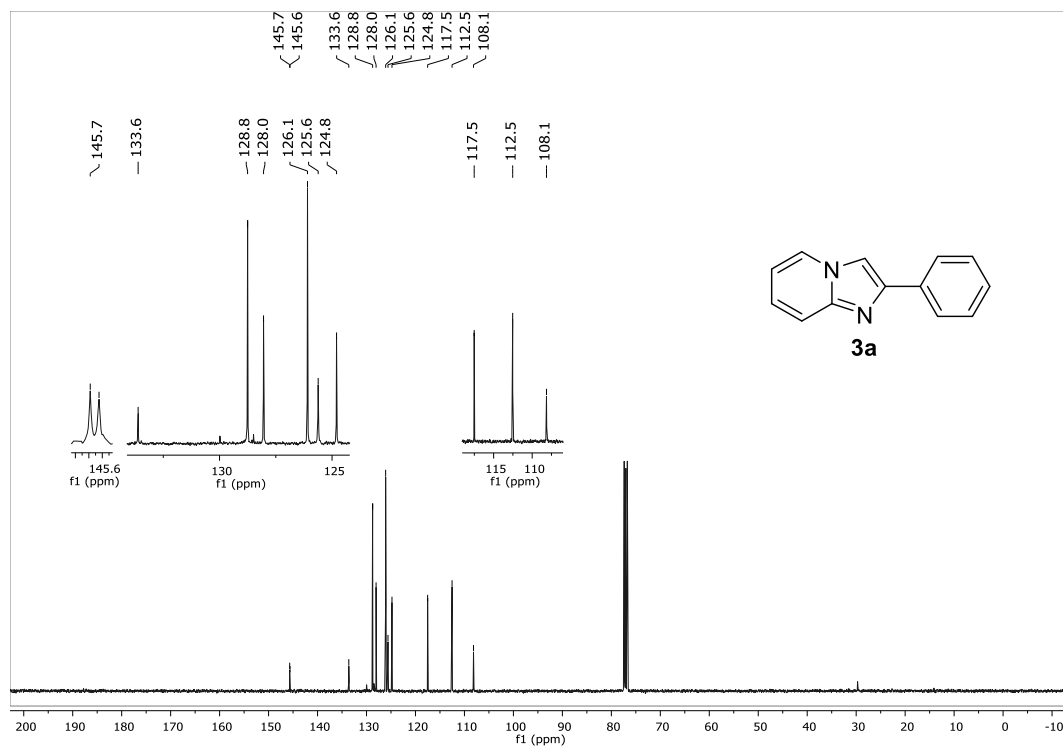
Table of Contents

¹ H NMR and ¹³ C NMR spectra of compounds 3 and 5	S2
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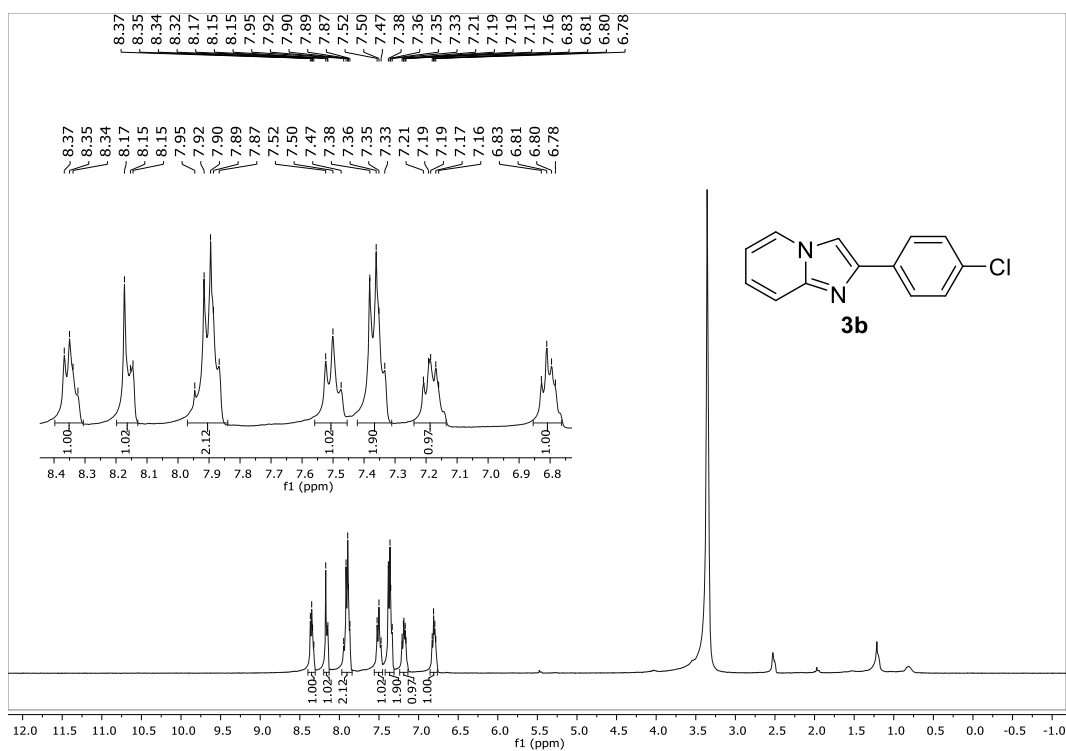
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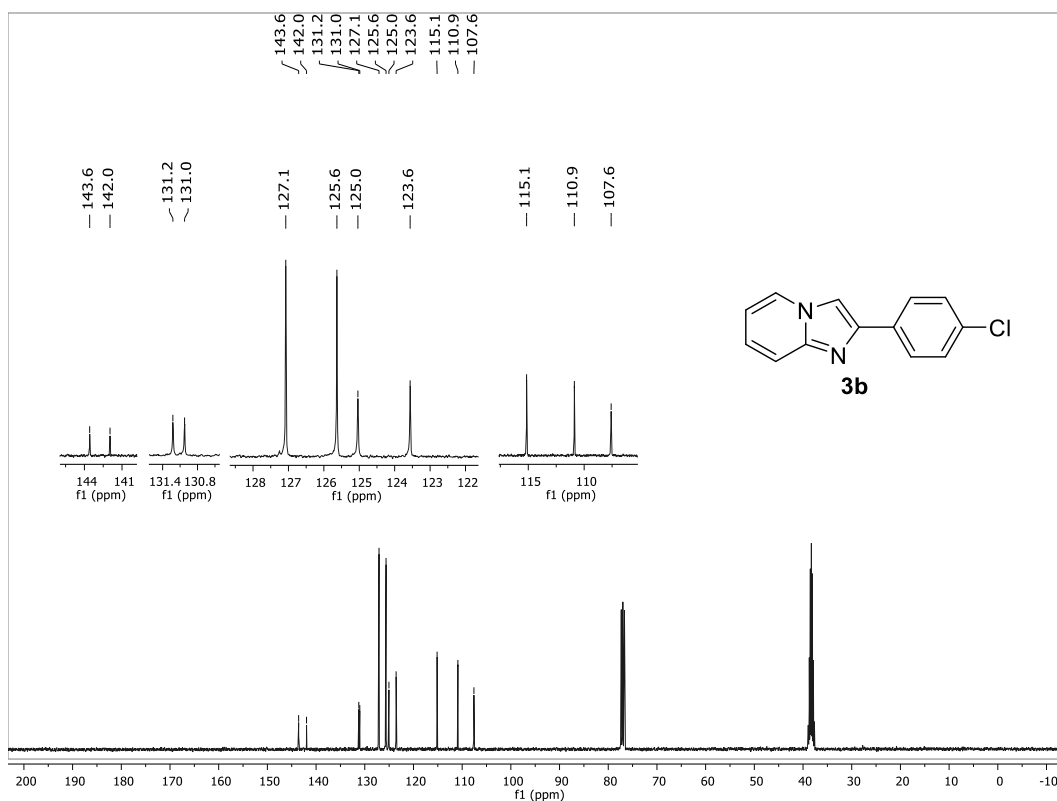
¹H NMR (400 MHz, CDCl₃) spectrum of 2-phenylimidazo[1,2-a]pyridine (3a).



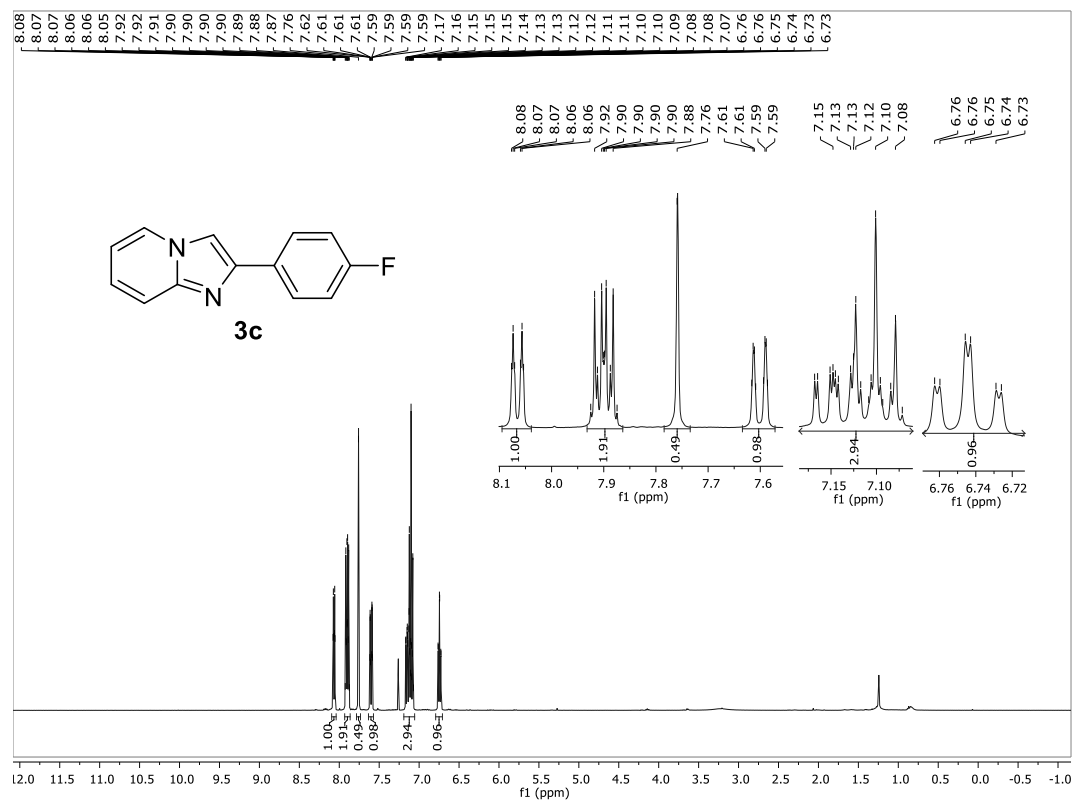
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-phenylimidazo[1,2-a]pyridine (3a).



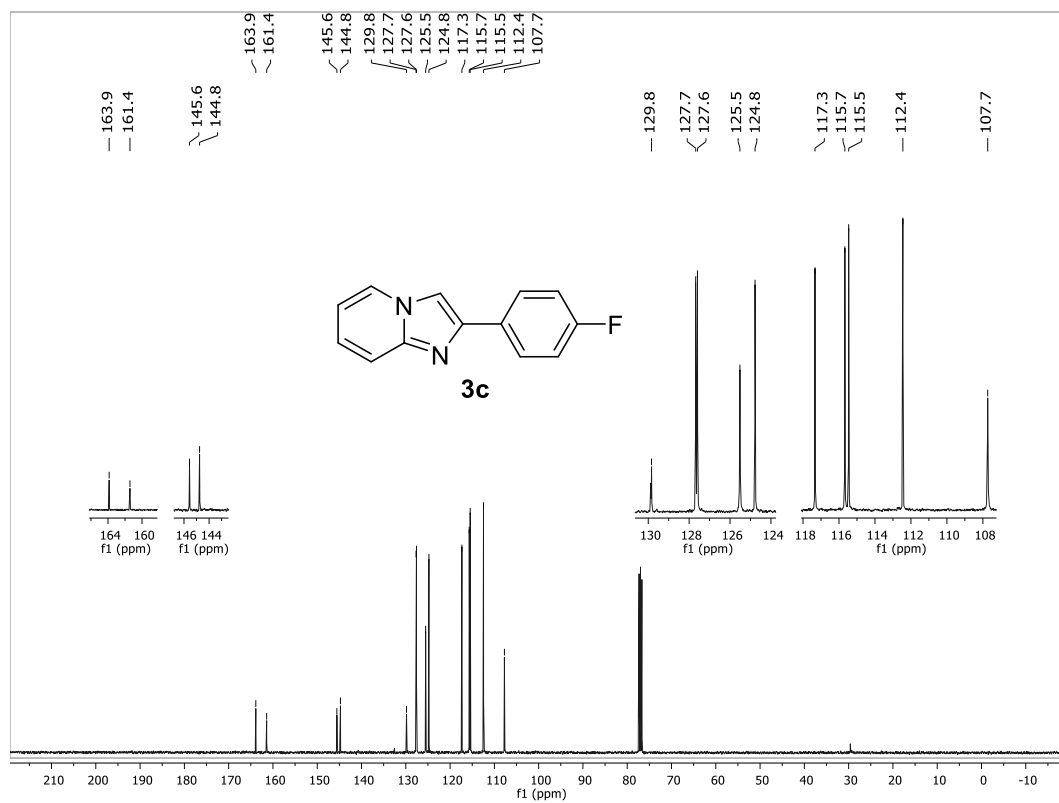
¹H NMR (400 MHz, CDCl₃/DMSO-*d*₆) spectrum of 2-(4-chlorophenyl)imidazo[1,2-*a*]pyridine (3b**).**



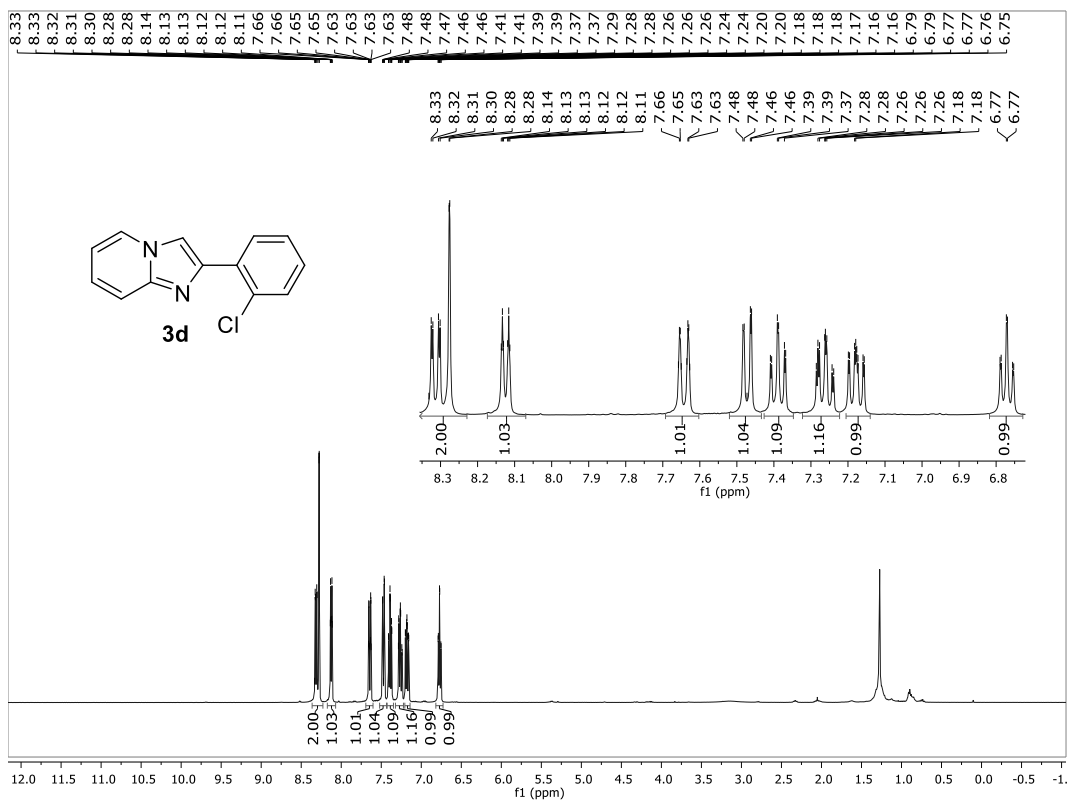
¹³C NMR (100 MHz, CDCl₃/DMSO-*d*₆) spectrum of 2-(4-chlorophenyl)imidazo[1,2-*a*]pyridine (3b**).**



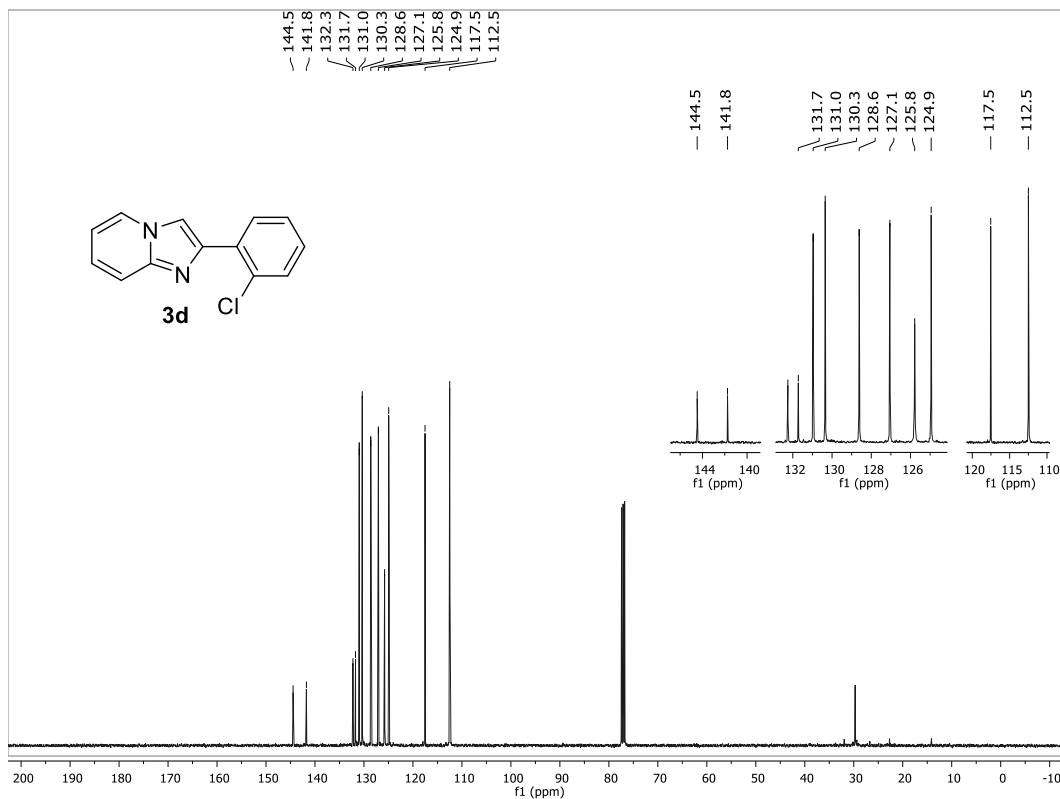
^1H NMR (400 MHz, CDCl_3) spectrum of 2-(4-fluorophenyl)imidazo[1,2-a]pyridine (**3c**).



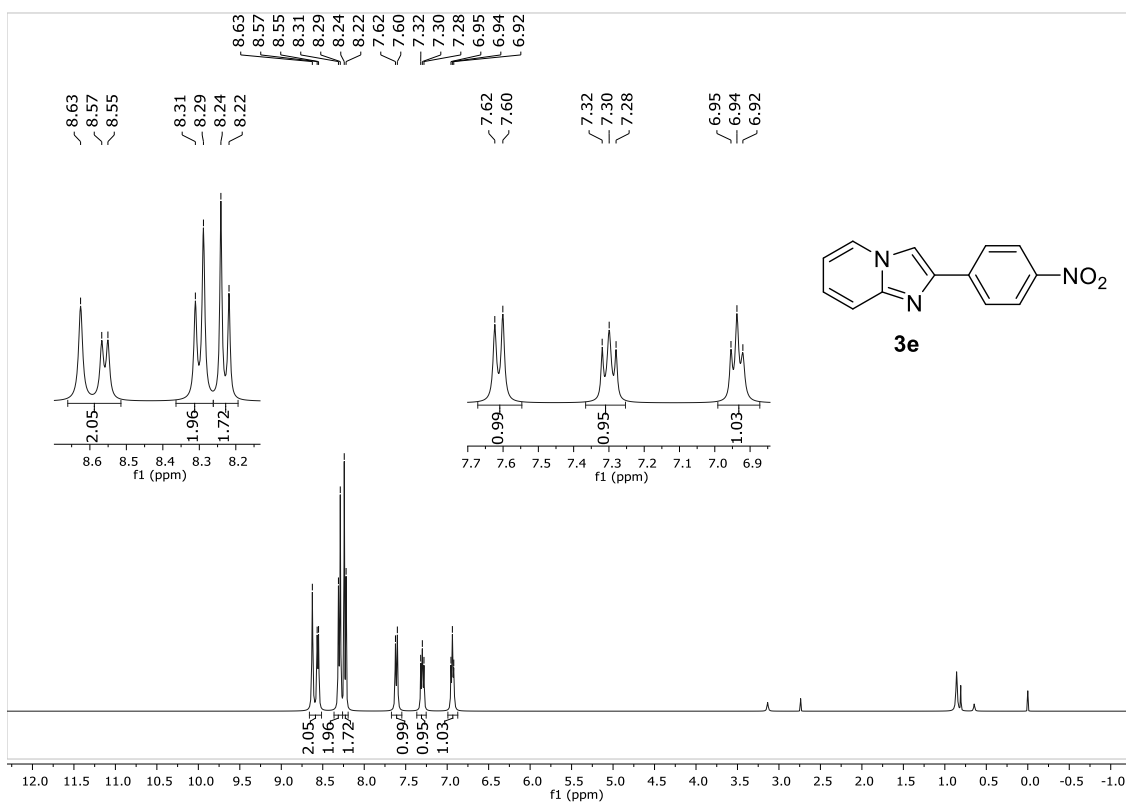
^{13}C NMR (100 MHz, CDCl_3) spectrum of 2-(4-fluorophenyl)imidazo[1,2-a]pyridine (**3c**).



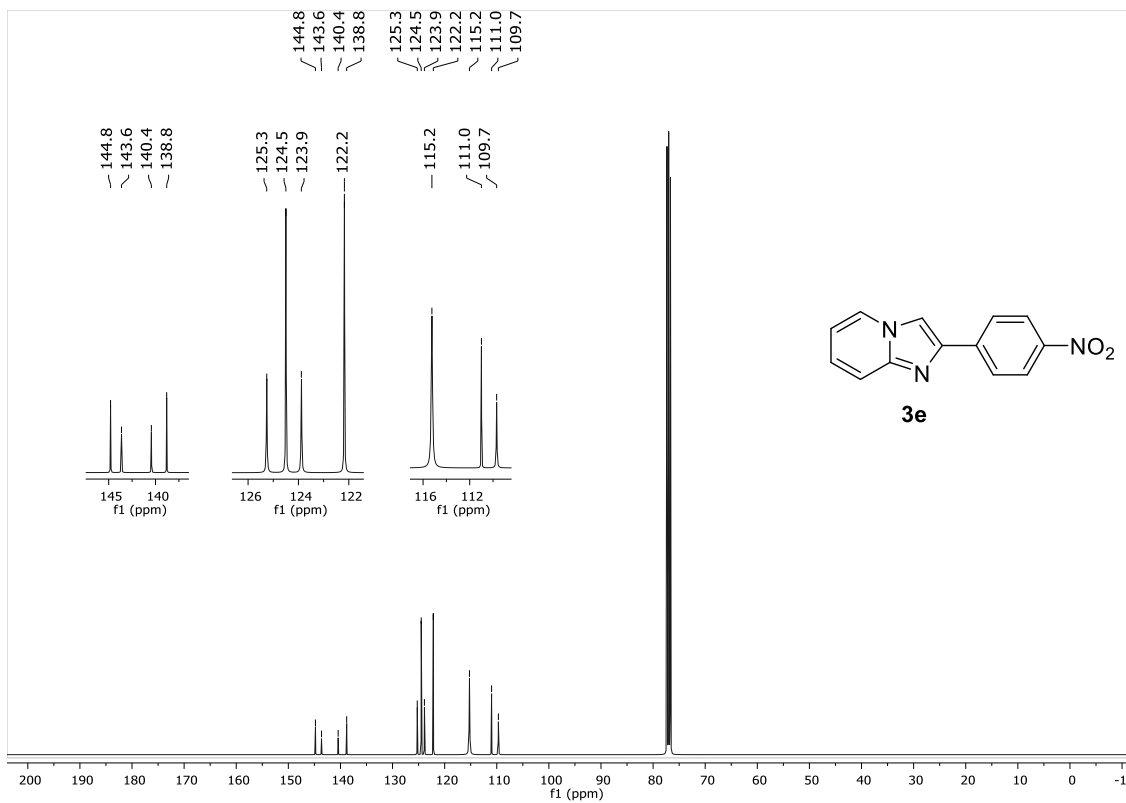
¹H NMR (400 MHz, CDCl₃) spectrum of 2-(2-chlorophenyl)imidazo[1,2-a]pyridine (3d).



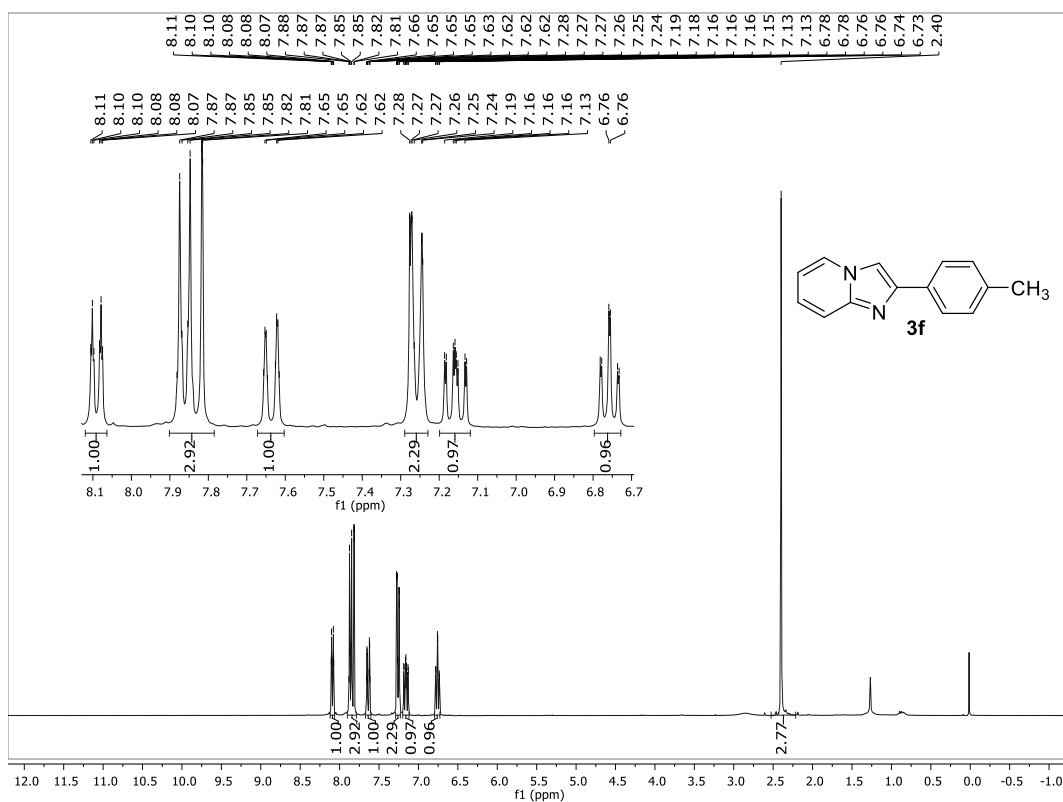
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-(2-chlorophenyl)imidazo[1,2-a]pyridine (3d).



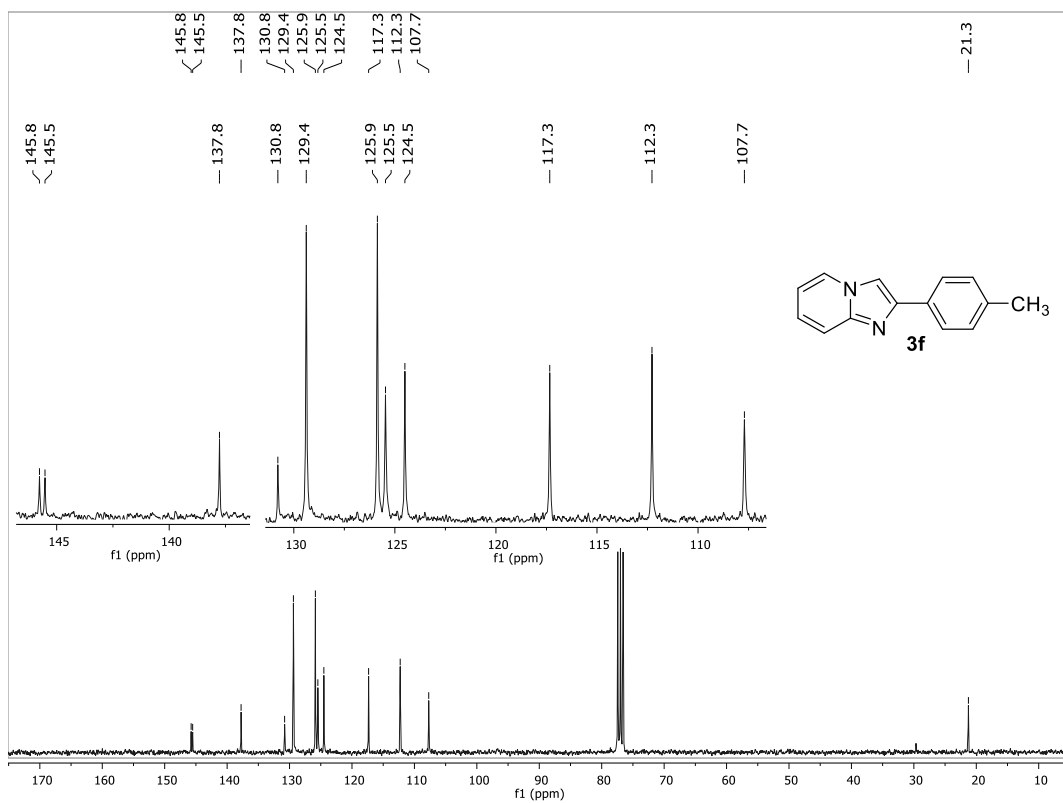
¹H NMR (400 MHz, CDCl₃/DMSO-*d*₆) spectrum of 2-(4-nitrophenyl)imidazo[1,2-*a*]pyridine (**3e**).



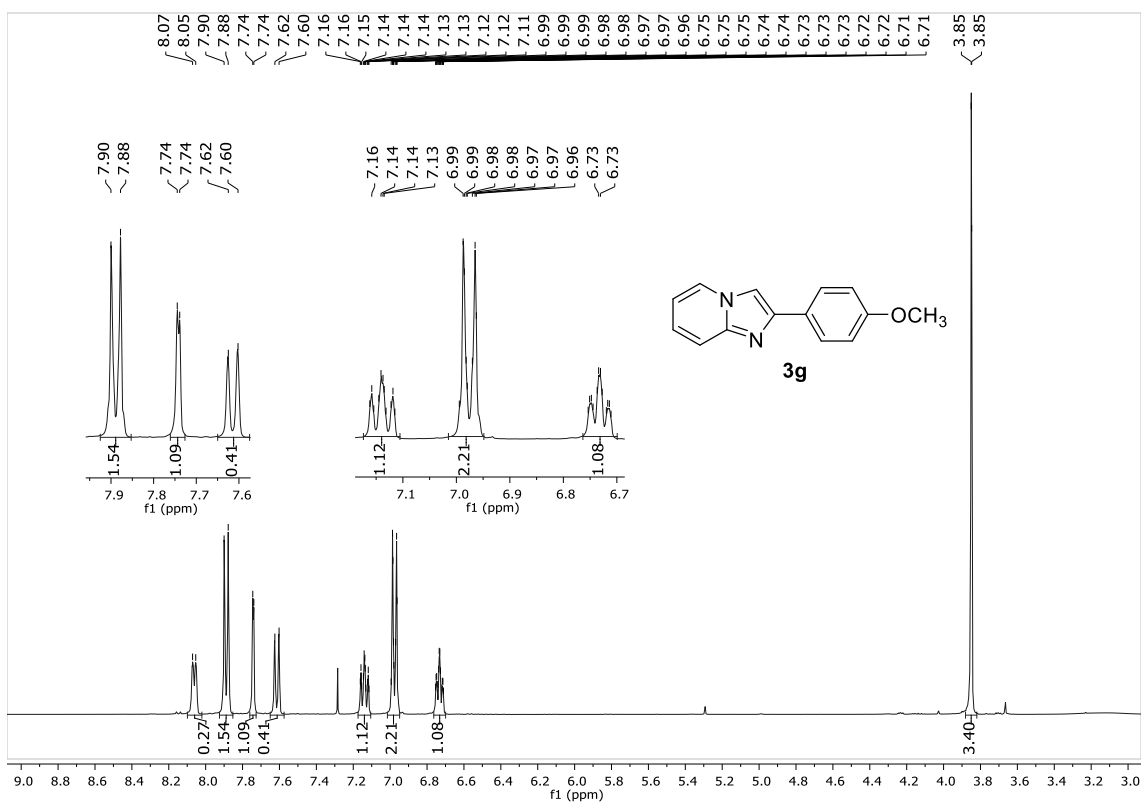
¹³C NMR (100 MHz, CDCl₃/DMSO-*d*₆) spectrum of 2-(4-nitrophenyl)imidazo[1,2-*a*]pyridine (**3e**).



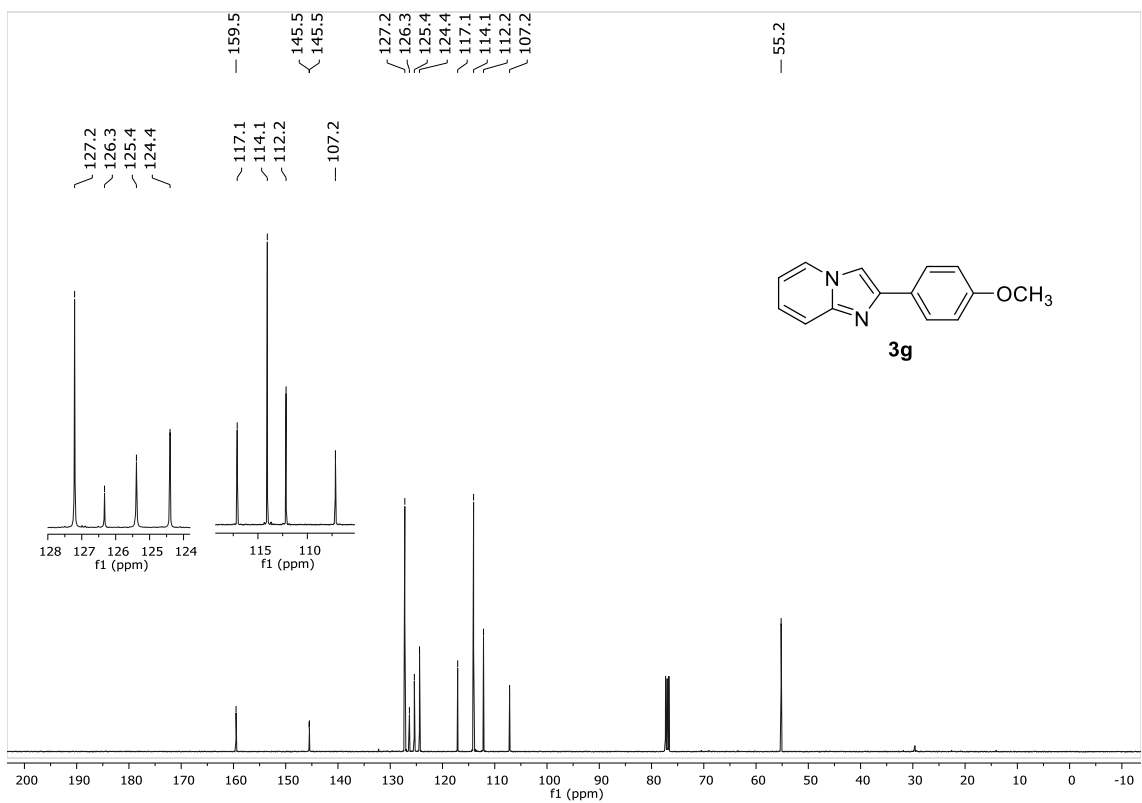
¹H NMR (400 MHz, CDCl₃) spectrum of 2-(*p*-tolyl)imidazo[1,2-*a*]pyridine (**3f**).



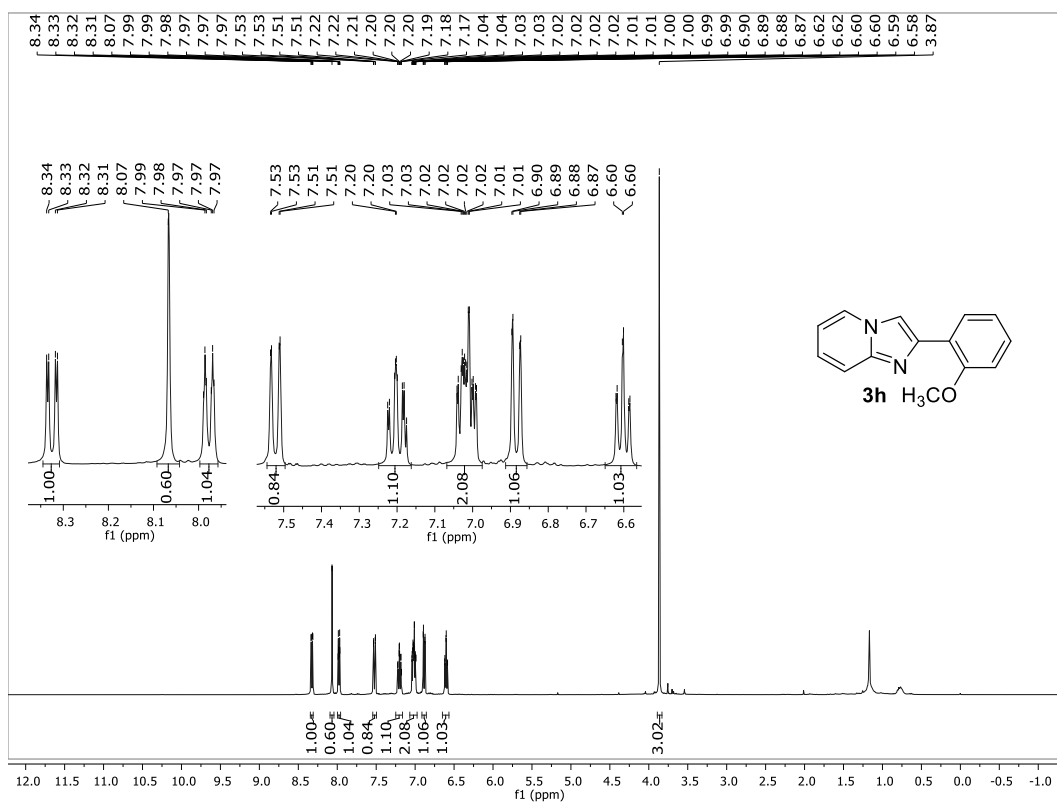
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-(*p*-tolyl)imidazo[1,2-*a*]pyridine (**3f**).



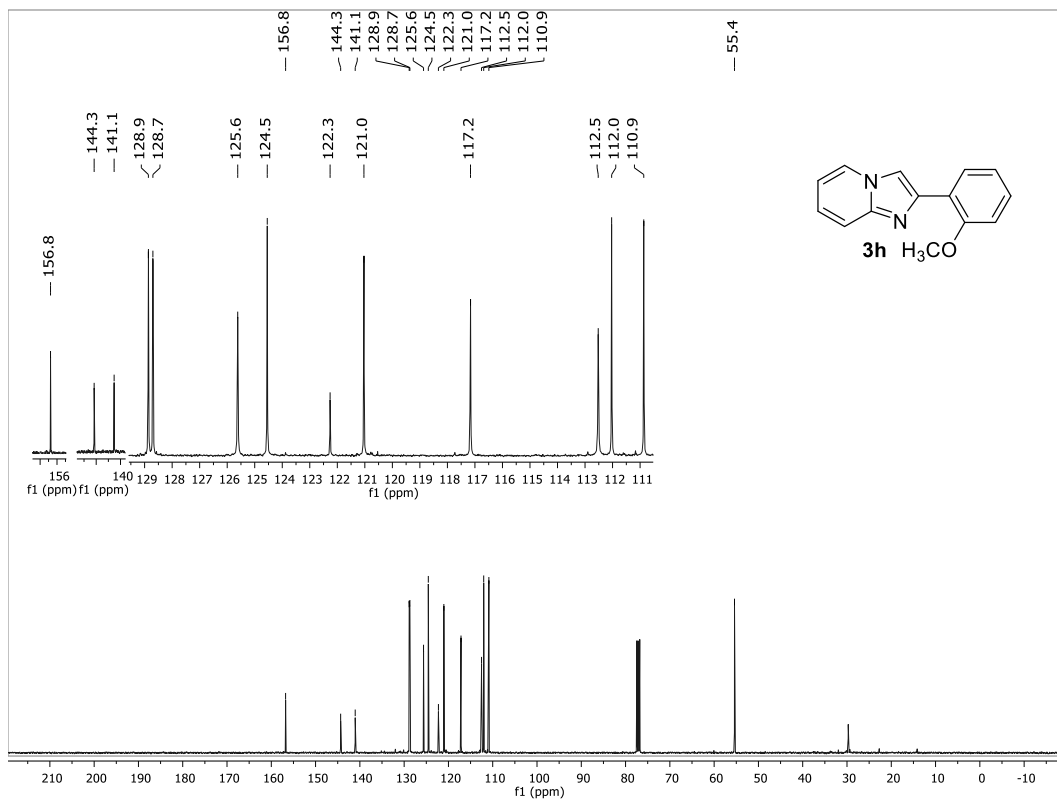
¹H NMR (400 MHz, CDCl₃) spectrum of 2-(4-methoxyphenyl)imidazo[1,2-a]pyridine (**3g**).



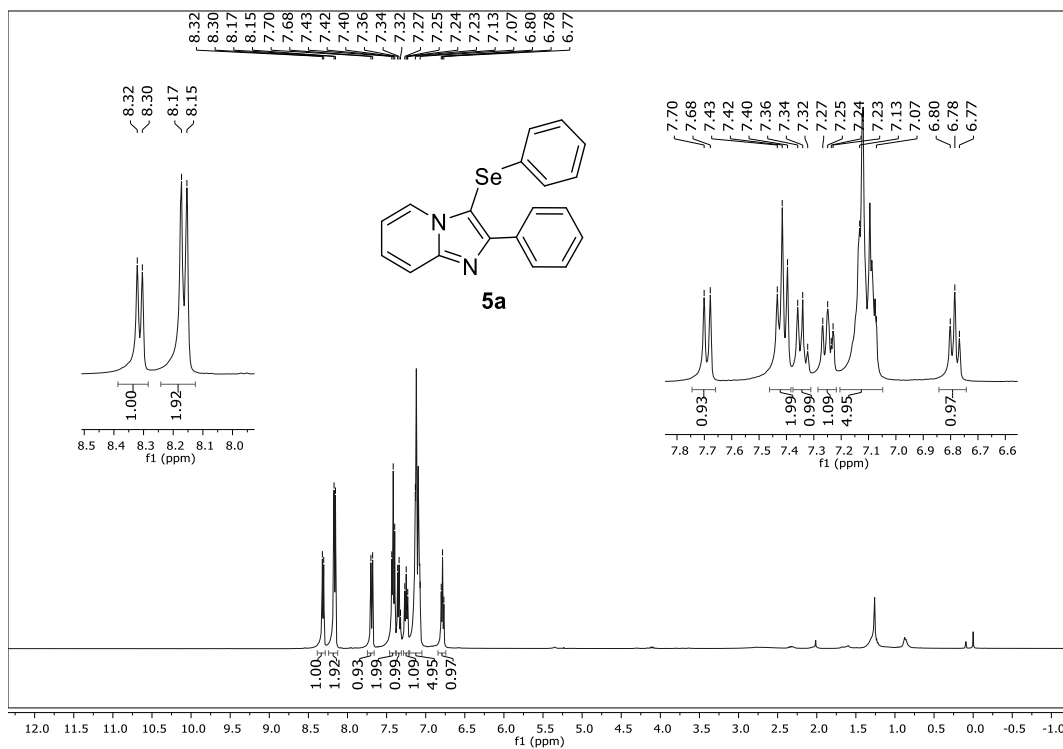
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-(4-methoxyphenyl)imidazo[1,2-a]pyridine (**3g**).



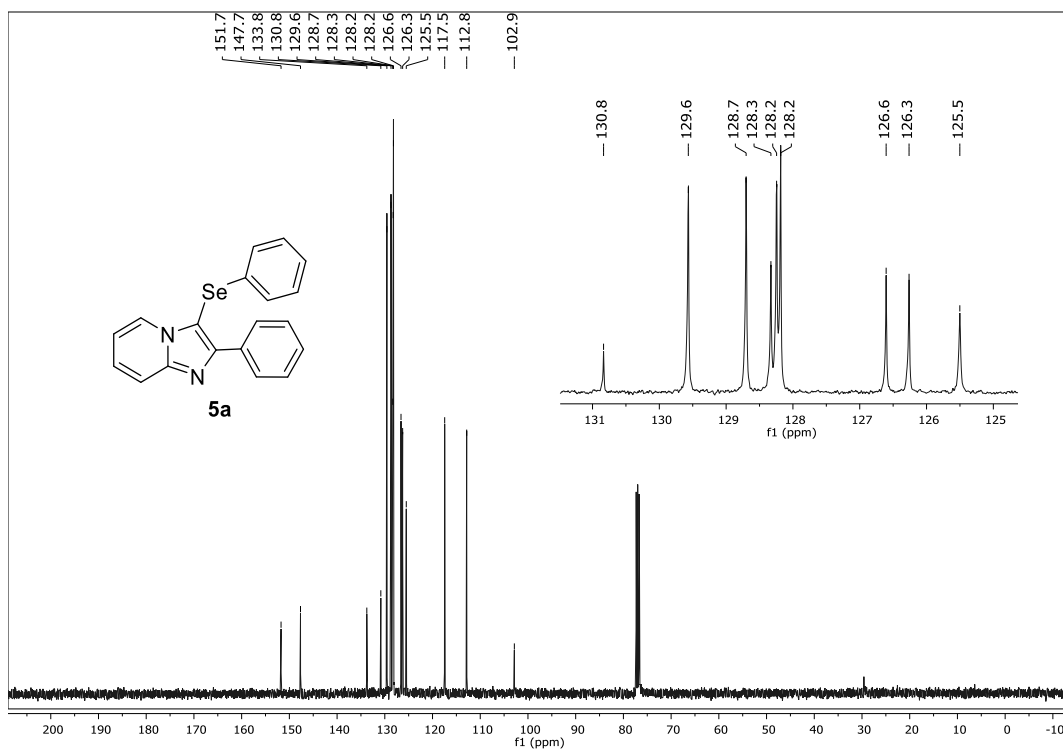
¹H NMR (400 MHz, CDCl₃) spectrum of 2-(2-methoxyphenyl)imidazo[1,2-a]pyridine (**3h**).



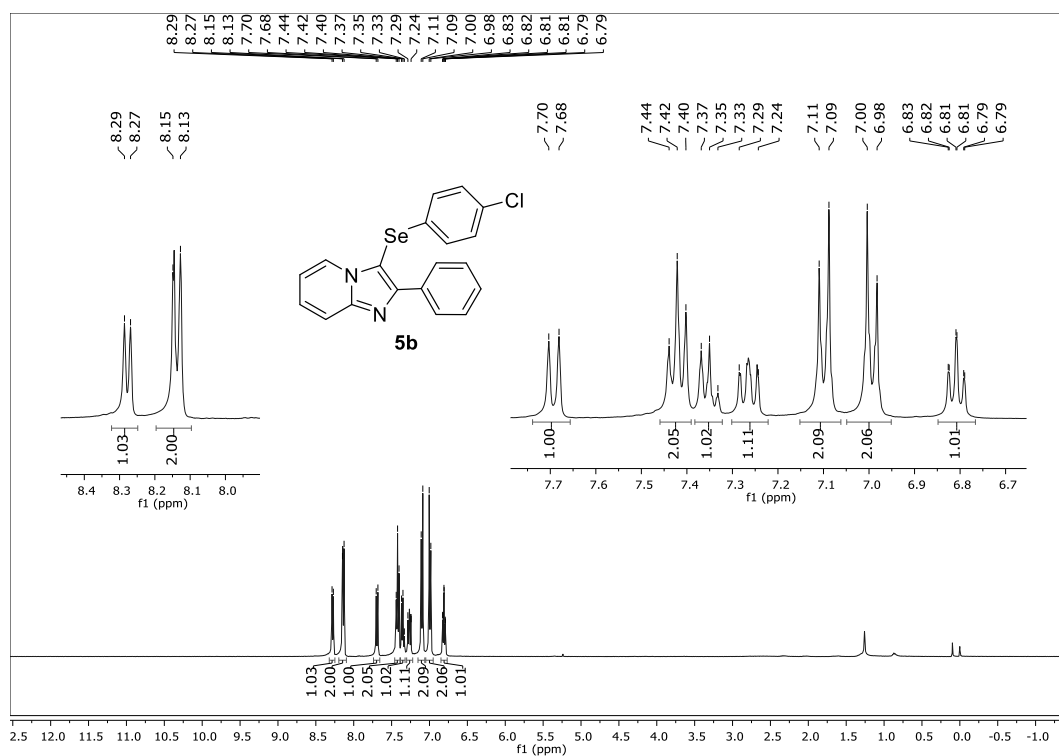
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-(2-methoxyphenyl)imidazo[1,2-a]pyridine (**3h**).



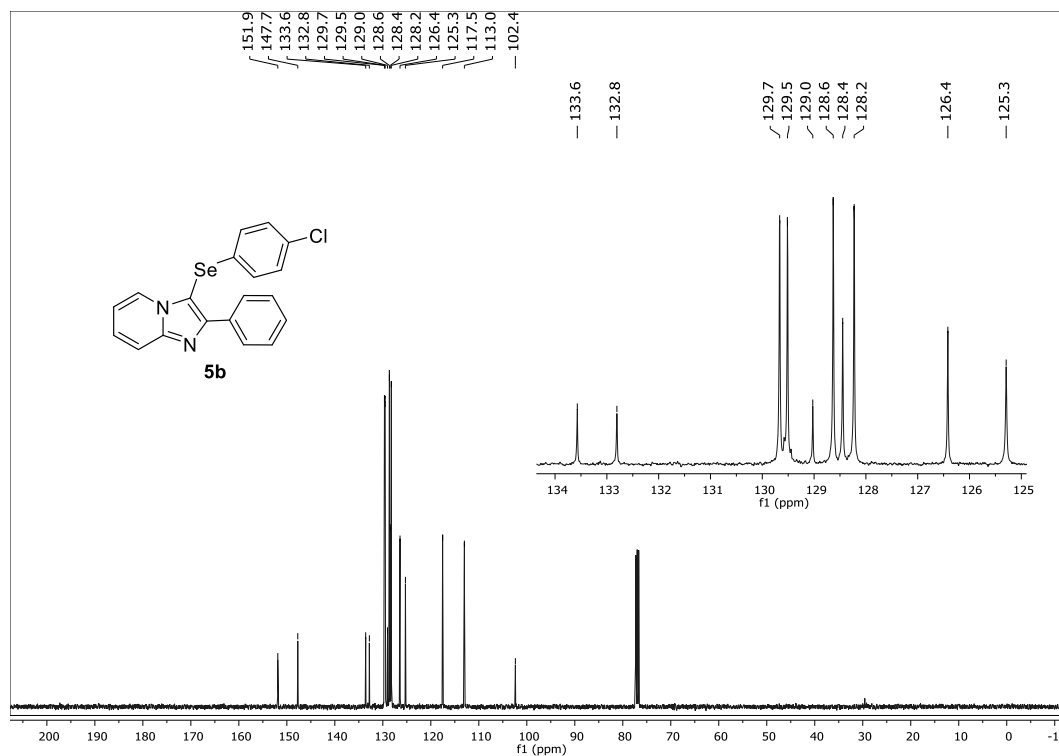
¹H NMR (400 MHz, CDCl₃) spectrum of 2-phenyl-3-(phenylselanyl)imidazo[1,2-*a*]pyridine (5a).



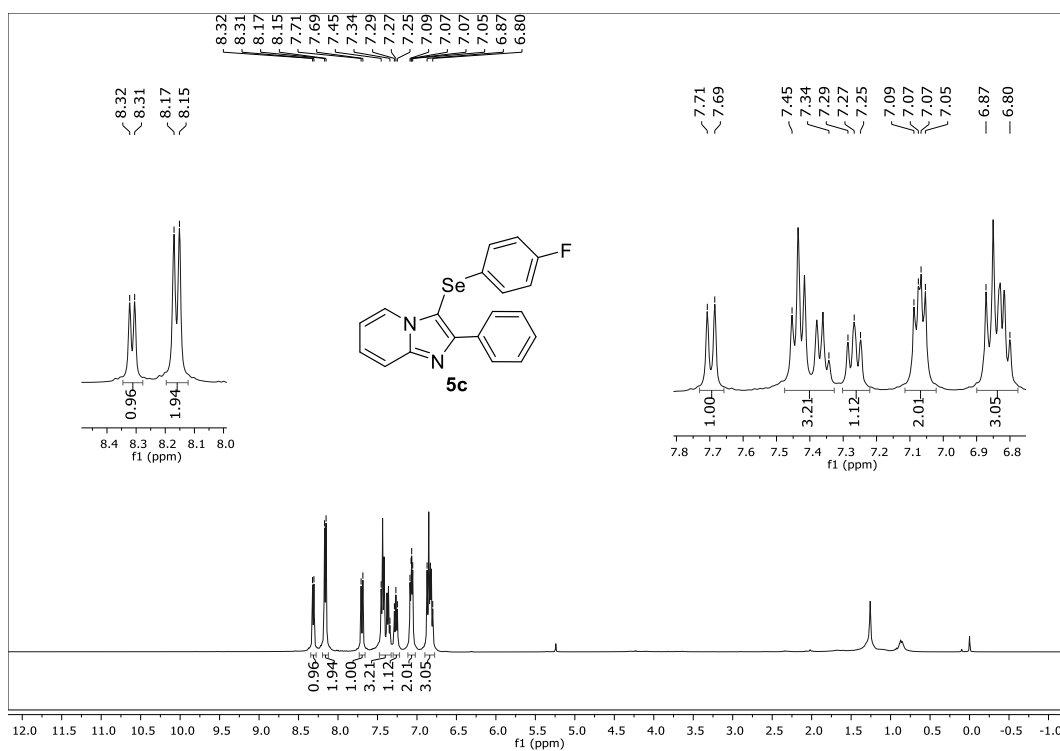
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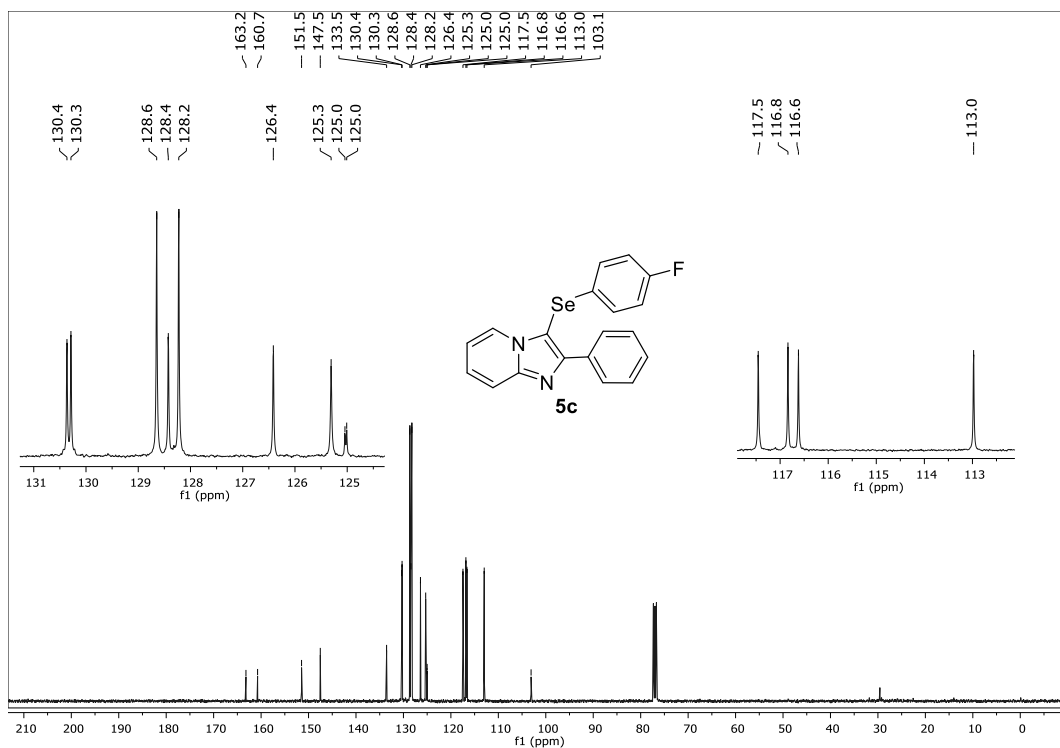
¹H NMR (400 MHz, CDCl₃) spectrum of 3-[(4-chlorophenyl)selanyl]-2-phenylimidazo[1,2-*a*]pyridine (5b**).**



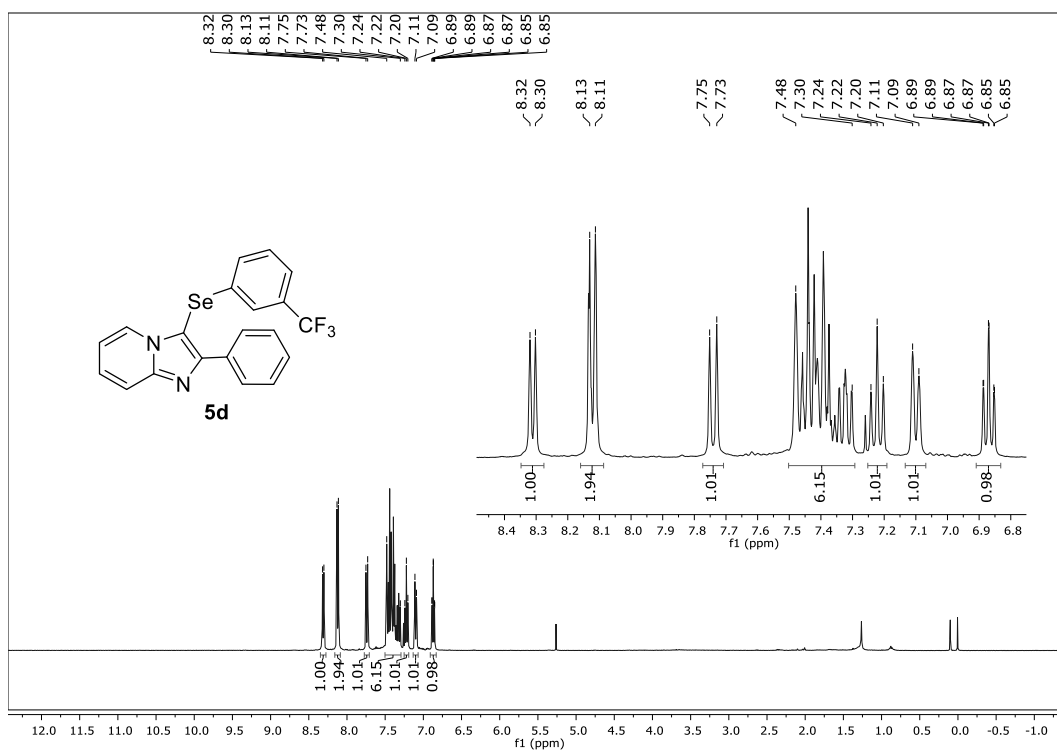
¹³C NMR (100 MHz, CDCl₃) spectrum of 3-[(4-chlorophenyl)selanyl]-2-phenylimidazo[1,2-*a*]pyridine (5b**).**



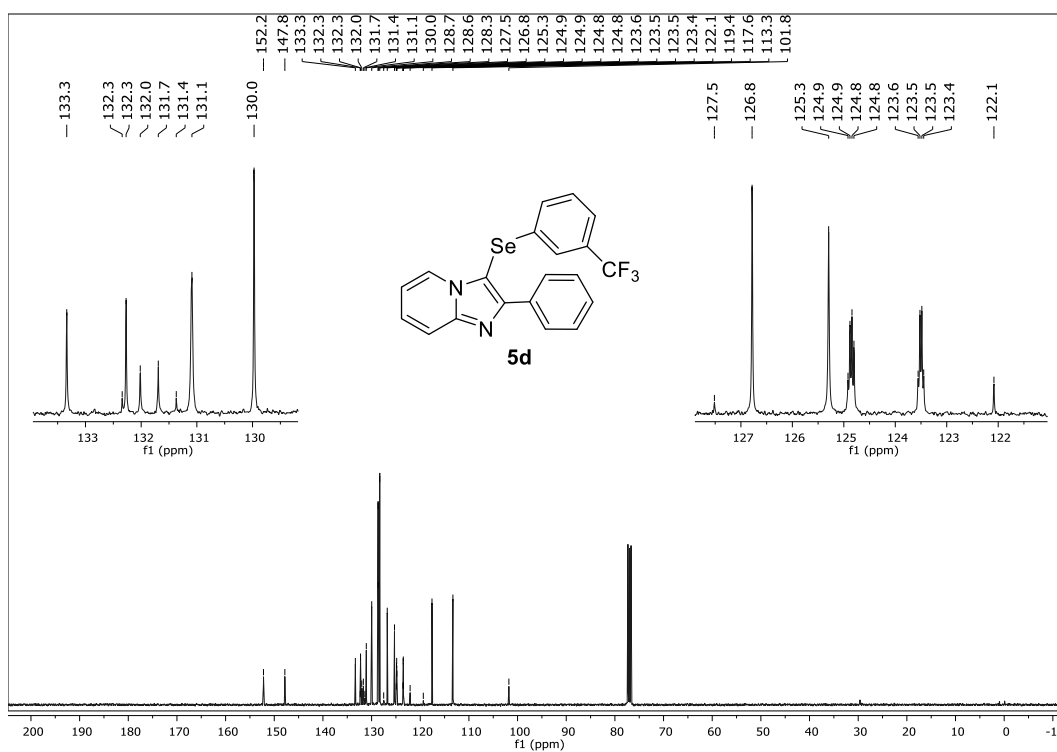
¹H NMR (400 MHz, CDCl₃) spectrum of 3-[(4-fluorophenyl)selenanyl]-2-phenylimidazo[1,2-a]pyridine (**5c**).



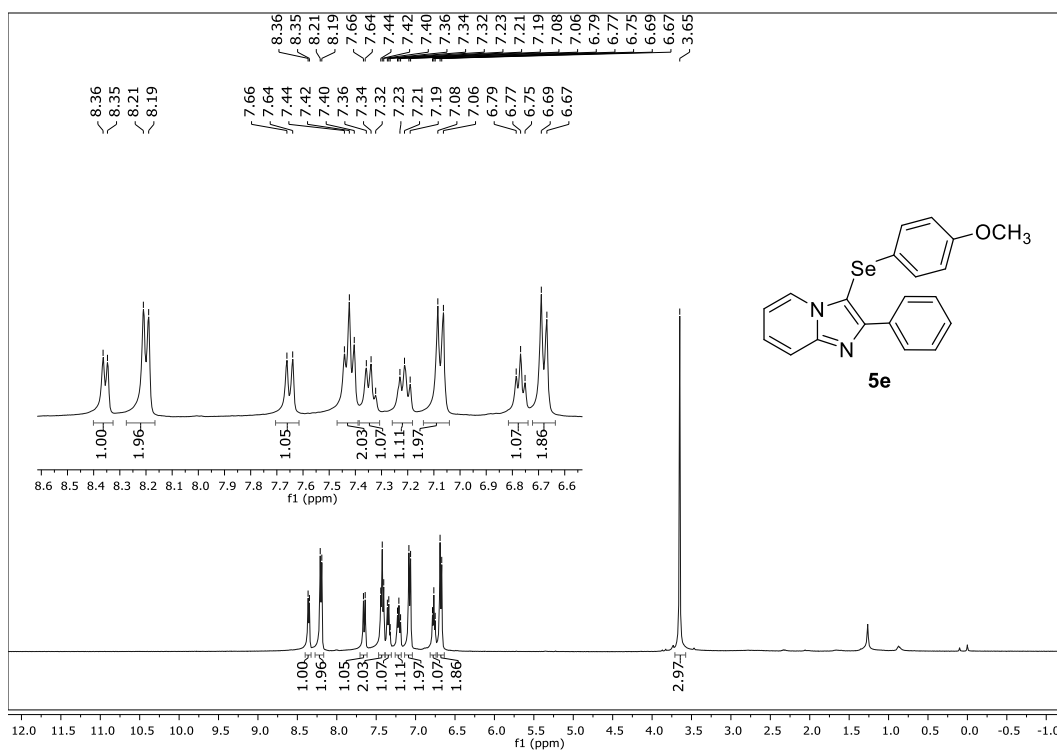
¹³C NMR (100 MHz, CDCl₃) spectrum of 3-[(4-fluorophenyl)selenanyl]-2-phenylimidazo[1,2-a]pyridine (**5c**).



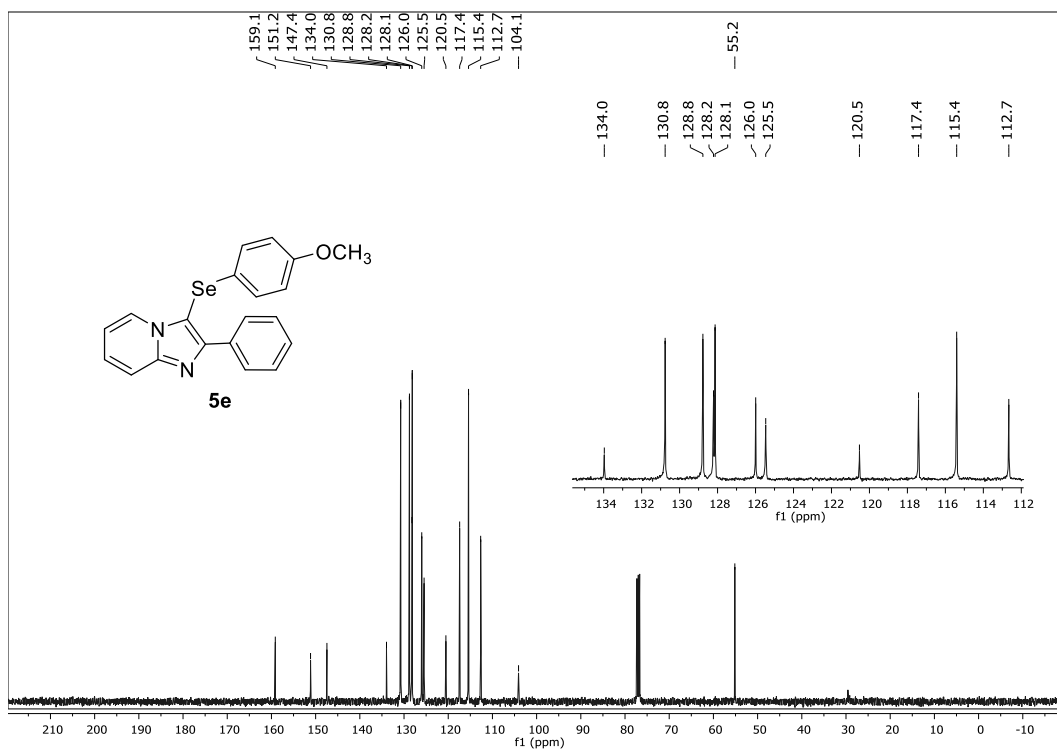
¹H NMR (400 MHz, CDCl₃) spectrum of 2-phenyl-3-[[3-(trifluoromethyl)phenyl]selanyl]imidazo[1,2-a]pyridine (5d).



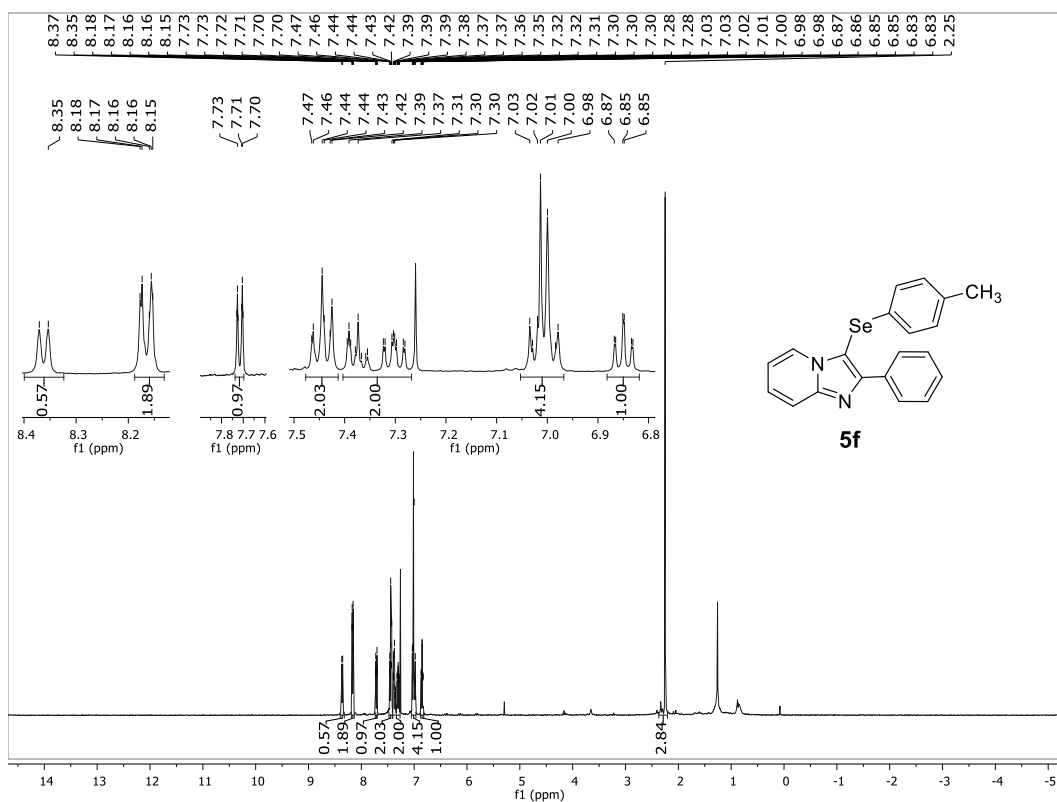
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-phenyl-3-[[3-(trifluoromethyl)phenyl]selanyl]imidazo[1,2-a]pyridine (5d).



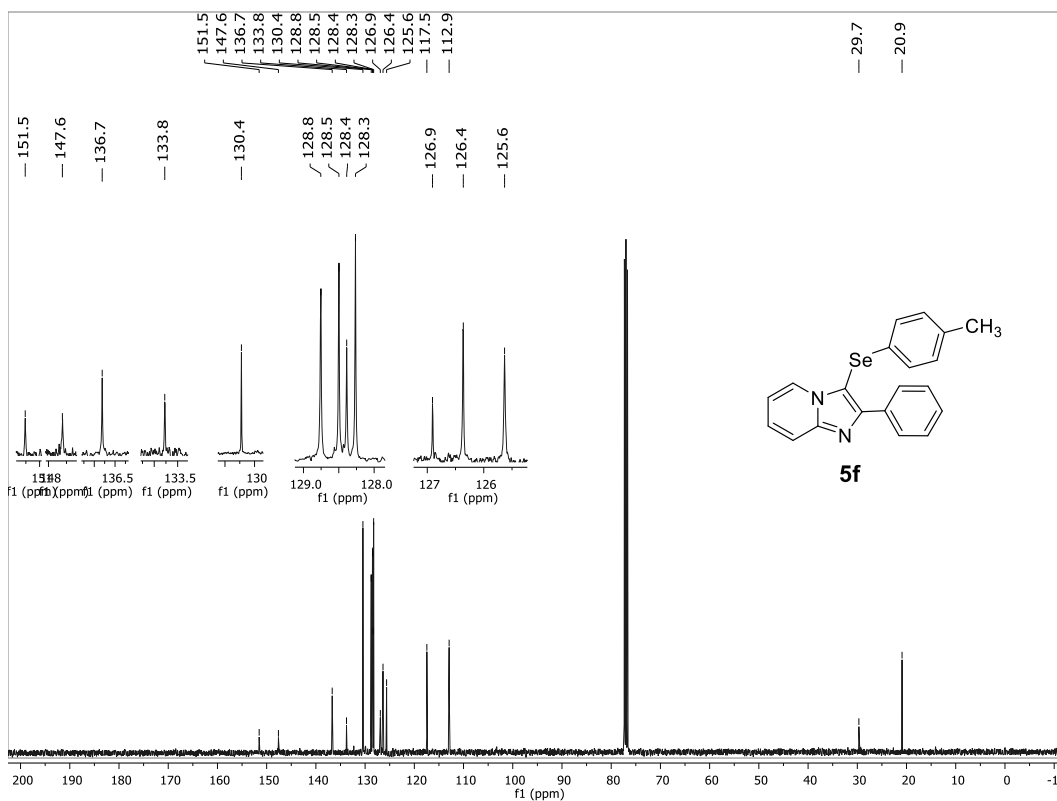
¹H NMR (400 MHz, CDCl₃) spectrum of 3-[(4-methoxyphenyl)selanyl]-2-phenylimidazo[1,2-a]pyridine (**5e**).



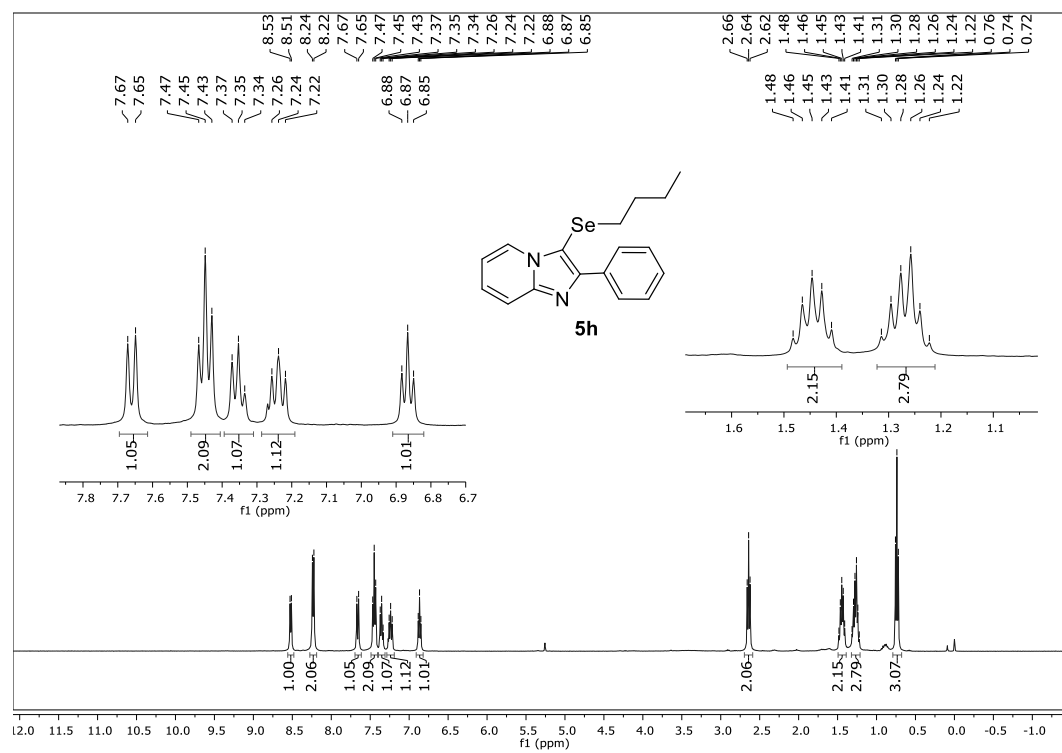
¹³C NMR (100 MHz, CDCl₃) spectrum of 3-[(4-methoxyphenyl)selanyl]-2-phenylimidazo[1,2-a]pyridine (**5e**).



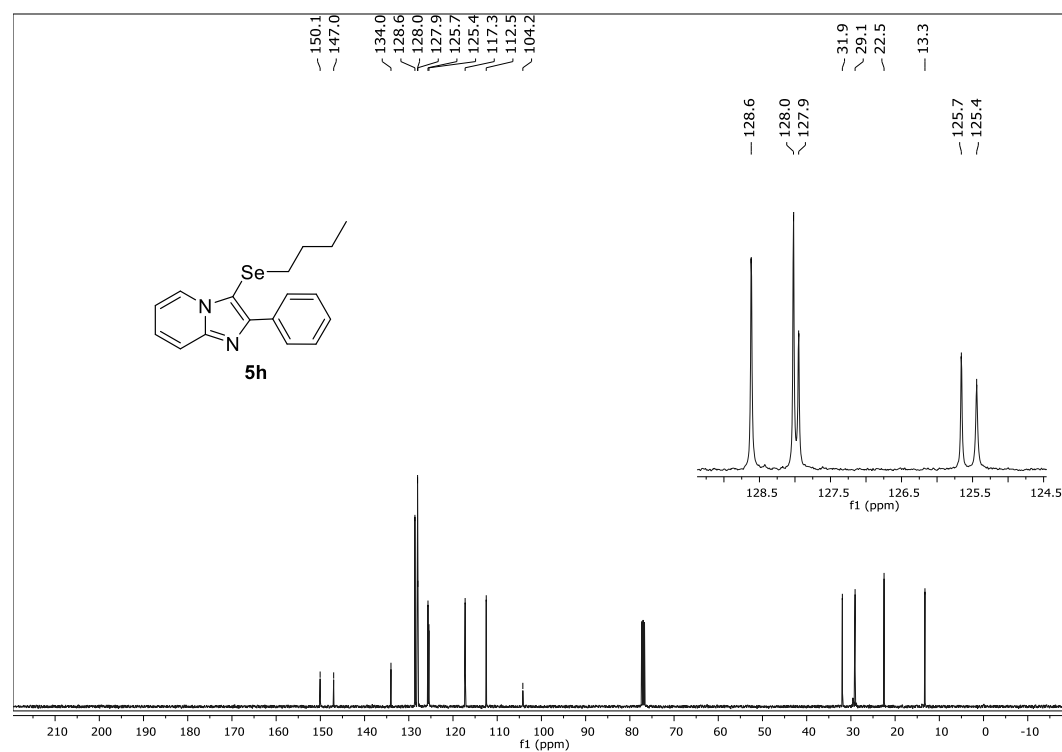
¹H NMR (400 MHz, CDCl₃) spectrum of 2-phenyl-3-(*p*-tolylselanyl)imidazo[1,2-*a*]pyridine (5f).



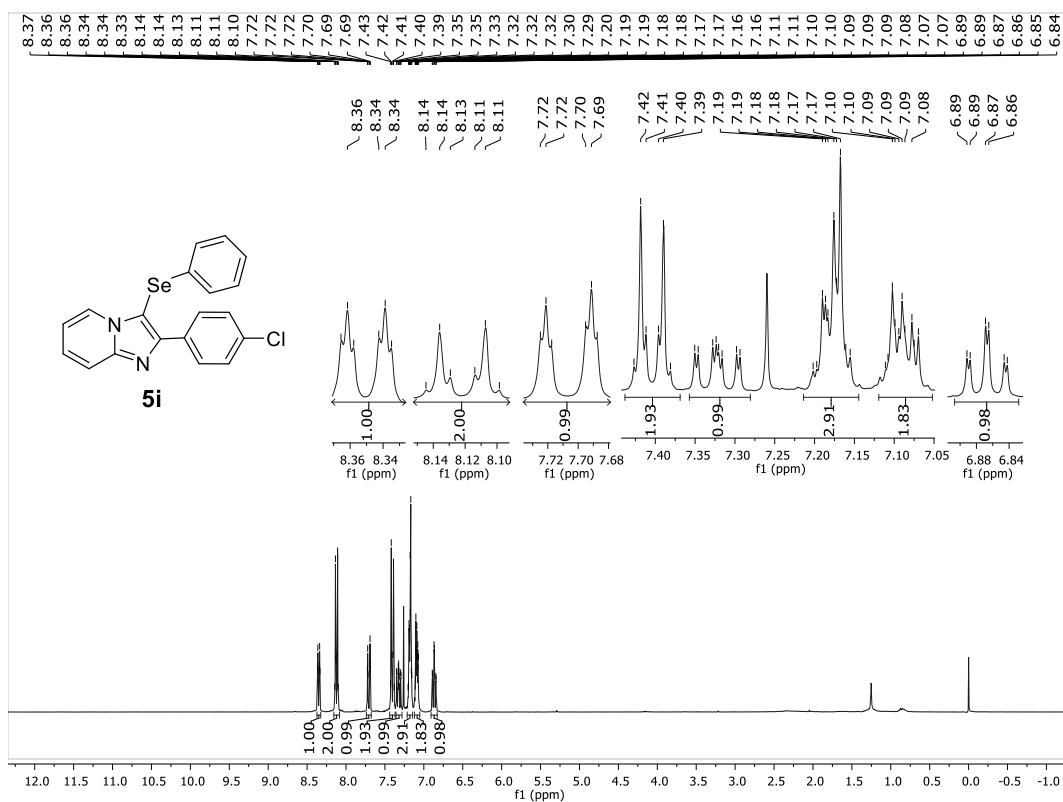
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-phenyl-3-(*p*-tolylselanyl)imidazo[1,2-*a*]pyridine (5f).



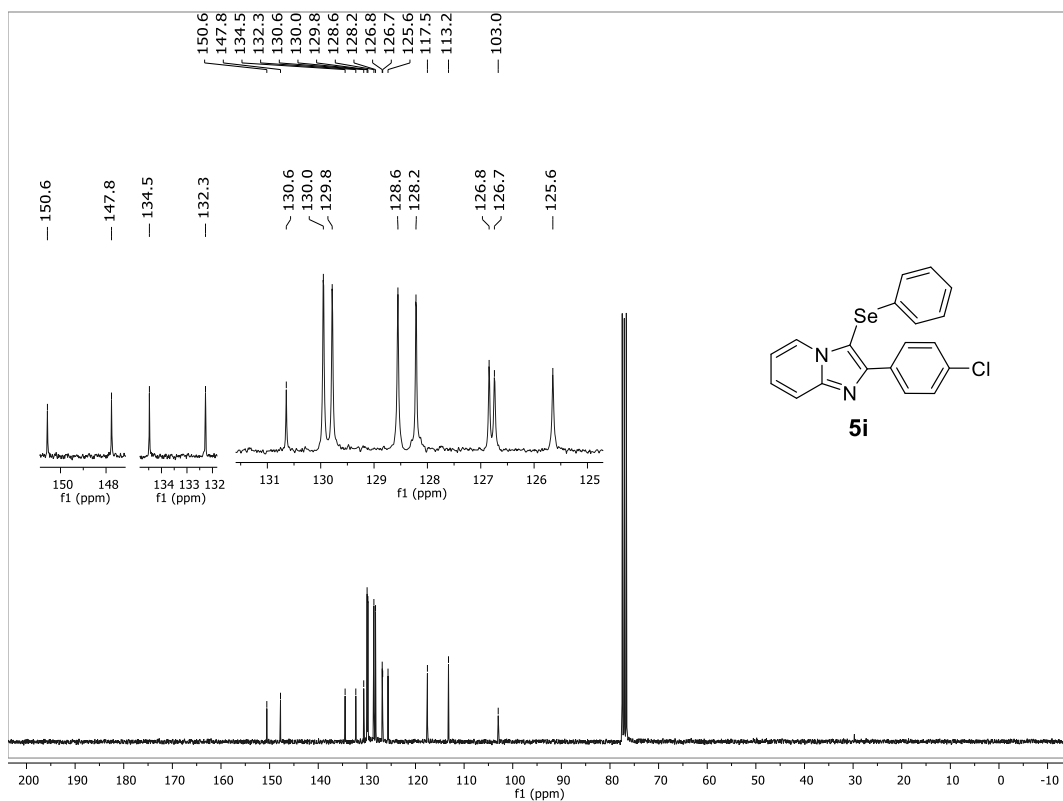
¹H NMR (400 MHz, CDCl₃) spectrum of 3-(butylselanyl)-2-phenylimidazo[1,2-a]pyridine (5h**).**



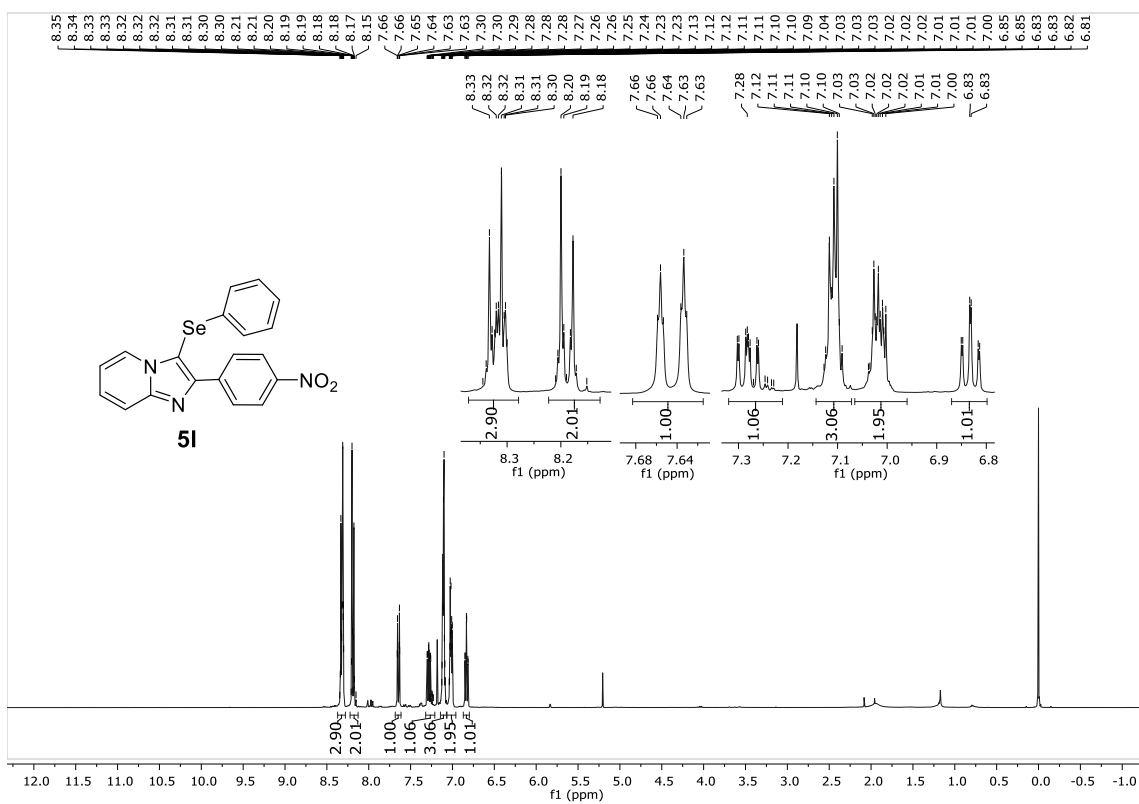
¹³C NMR (100 MHz, CDCl₃) spectrum of 3-(butylselanyl)-2-phenylimidazo[1,2-a]pyridine (5h**).**



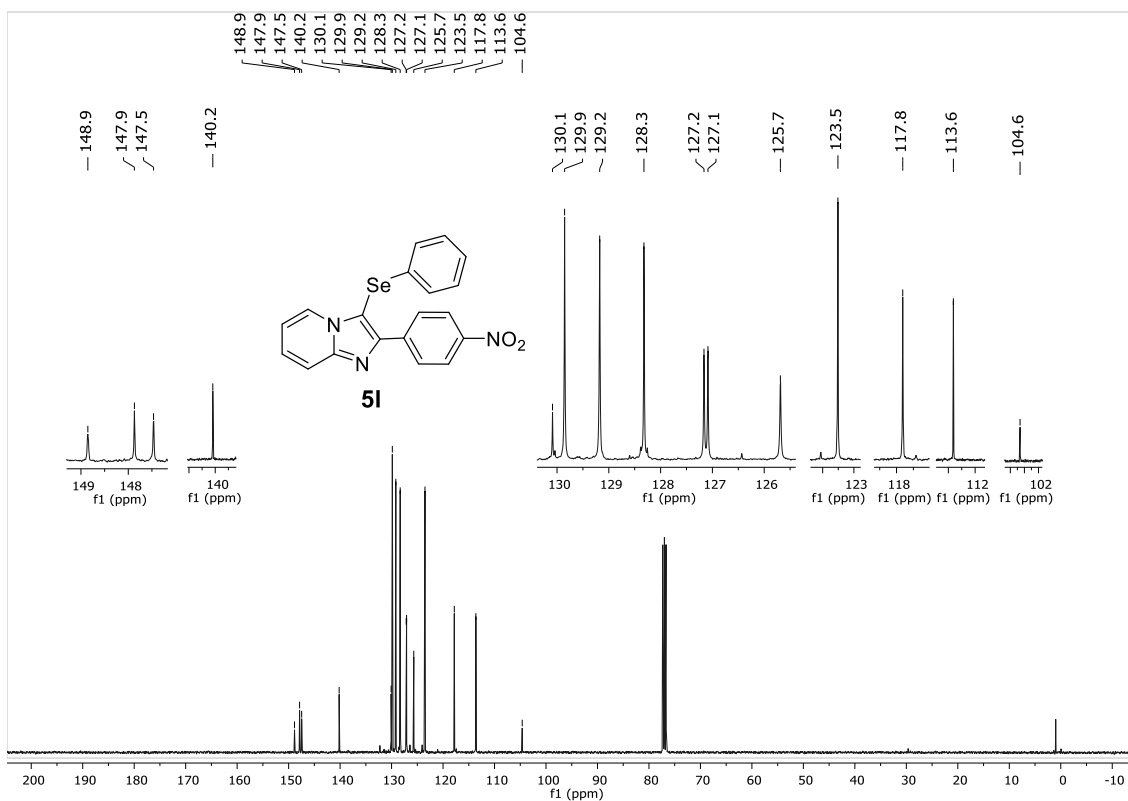
¹H NMR (400 MHz, CDCl₃) spectrum of 2-(4-chlorophenyl)-3-(phenylselanyl)imidazo[1,2-a]pyridine (**5i**).



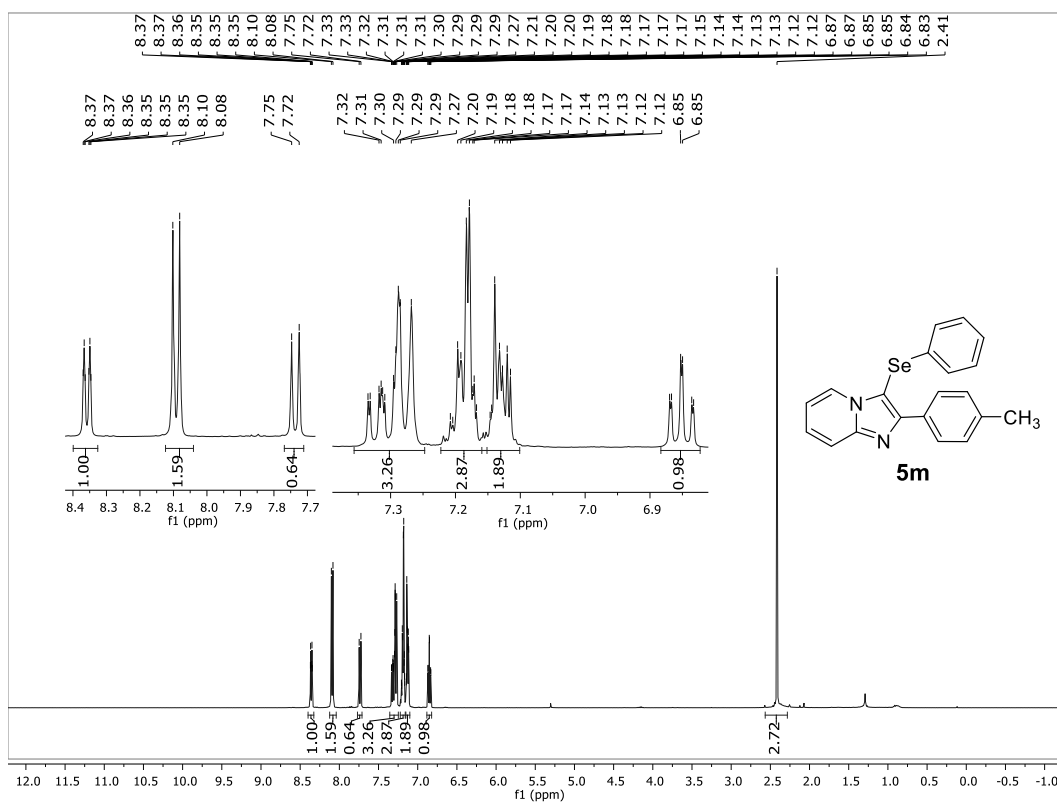
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-(4-chlorophenyl)-3-(phenylselanyl)imidazo[1,2-a]pyridine (**5i**).



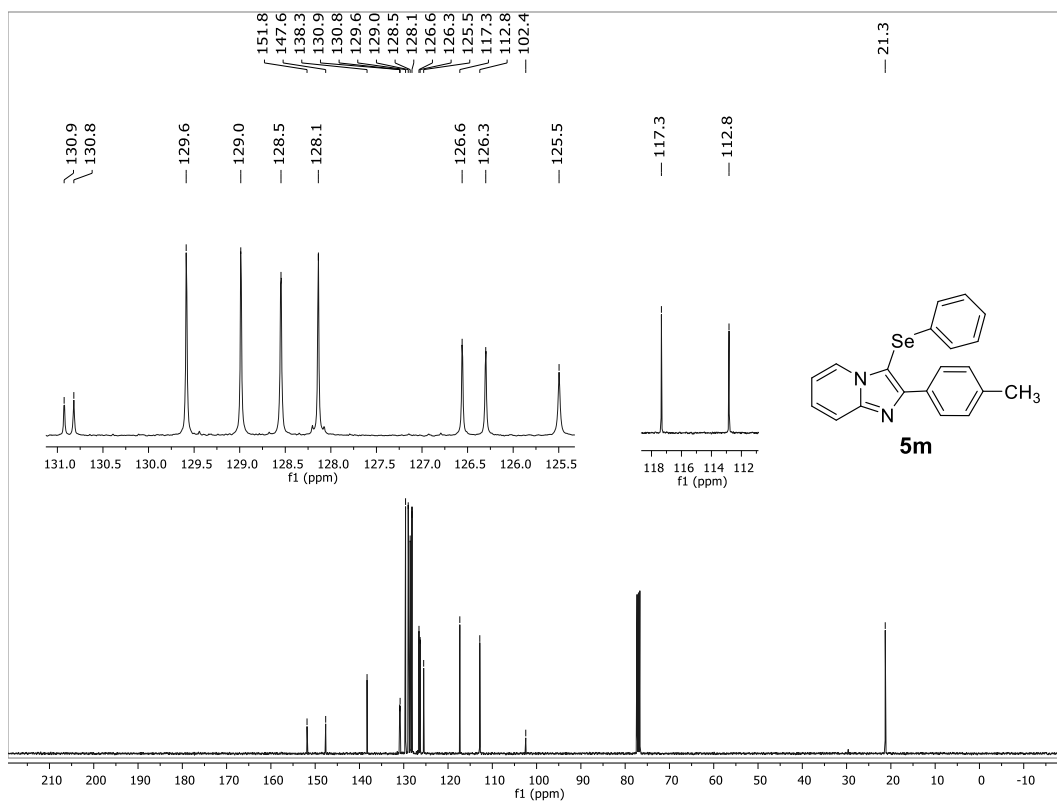
¹H NMR (400 MHz, CDCl₃) spectrum of 2-(4-nitrophenyl)-3-(phenylselanyl)imidazo[1,2-*a*]pyridine (**5I**).



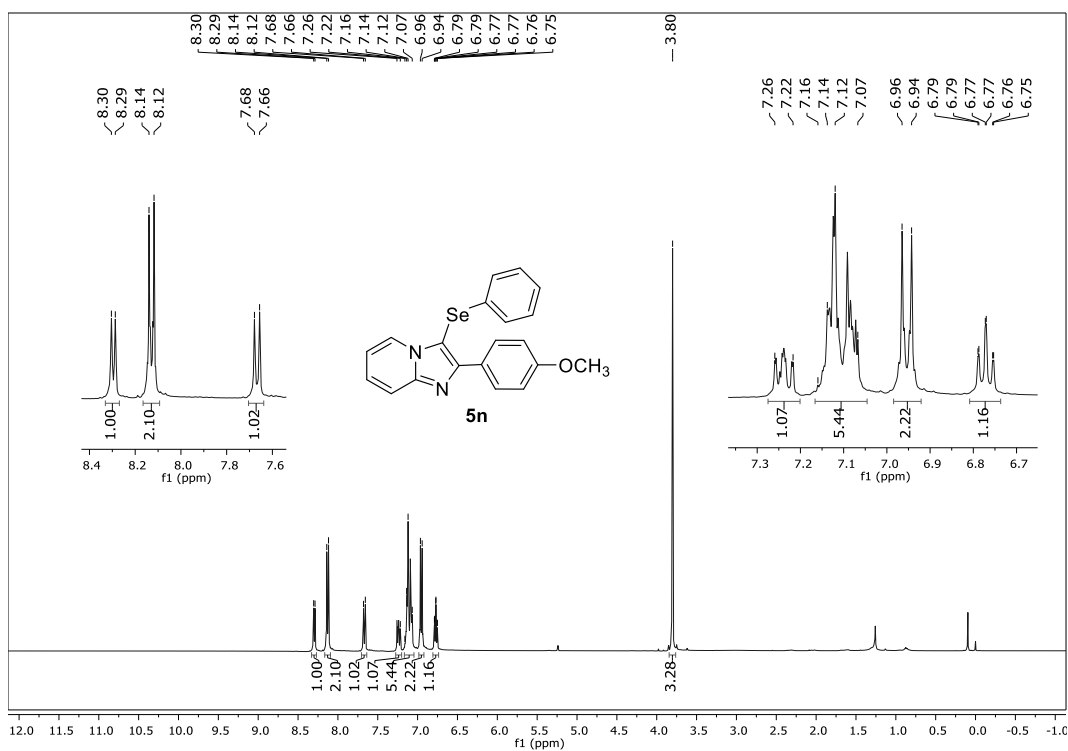
¹³C NMR (100 MHz, CDCl₃) spectrum of 2-(4-nitrophenyl)-3-(phenylselanyl)imidazo[1,2-*a*]pyridine (**5I**).



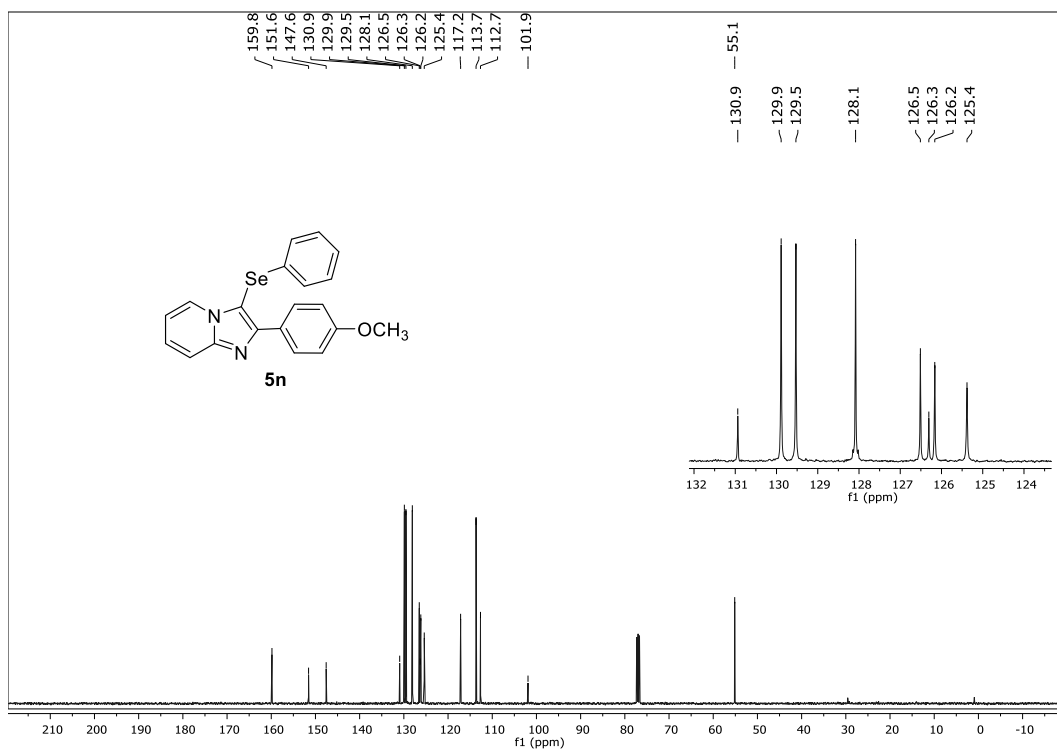
¹H NMR (400 MHz, CDCl₃) spectrum of 3-(phenylselanyl)-2-(*p*-tolyl)imidazo[1,2-*a*]pyridine (5m**).**



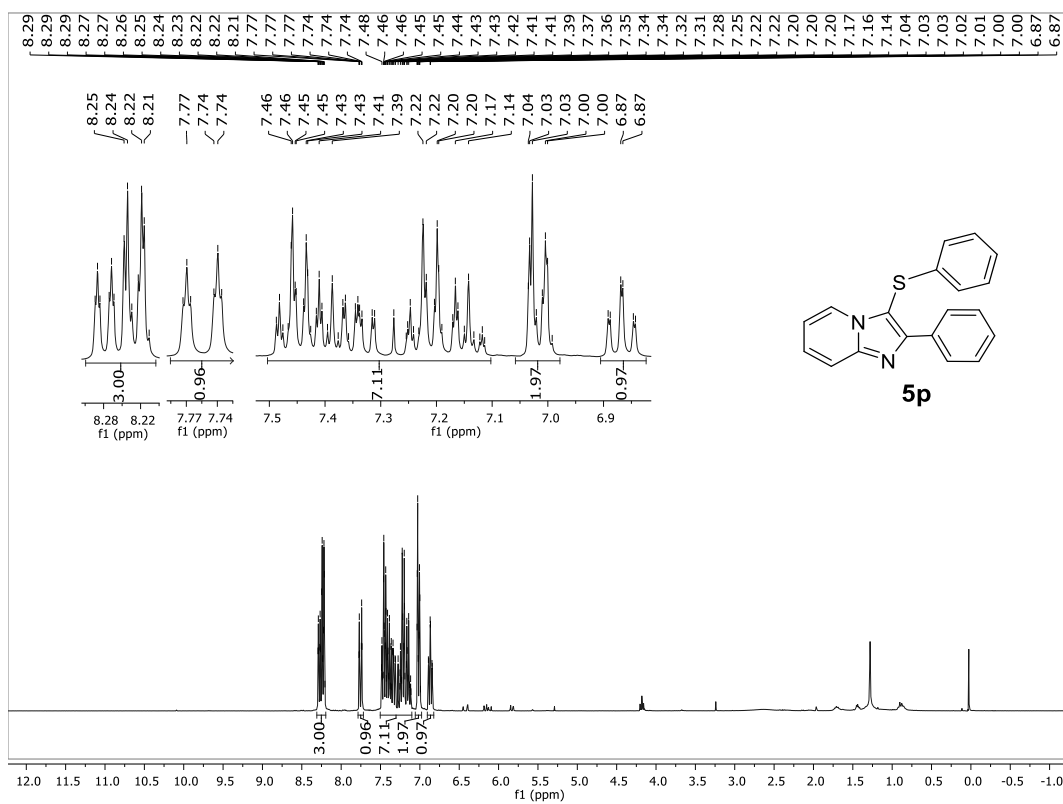
¹³C NMR (100 MHz, CDCl₃) spectrum of 3-(phenylselanyl)-2-(*p*-tolyl)imidazo[1,2-*a*]pyridine (5m**).**



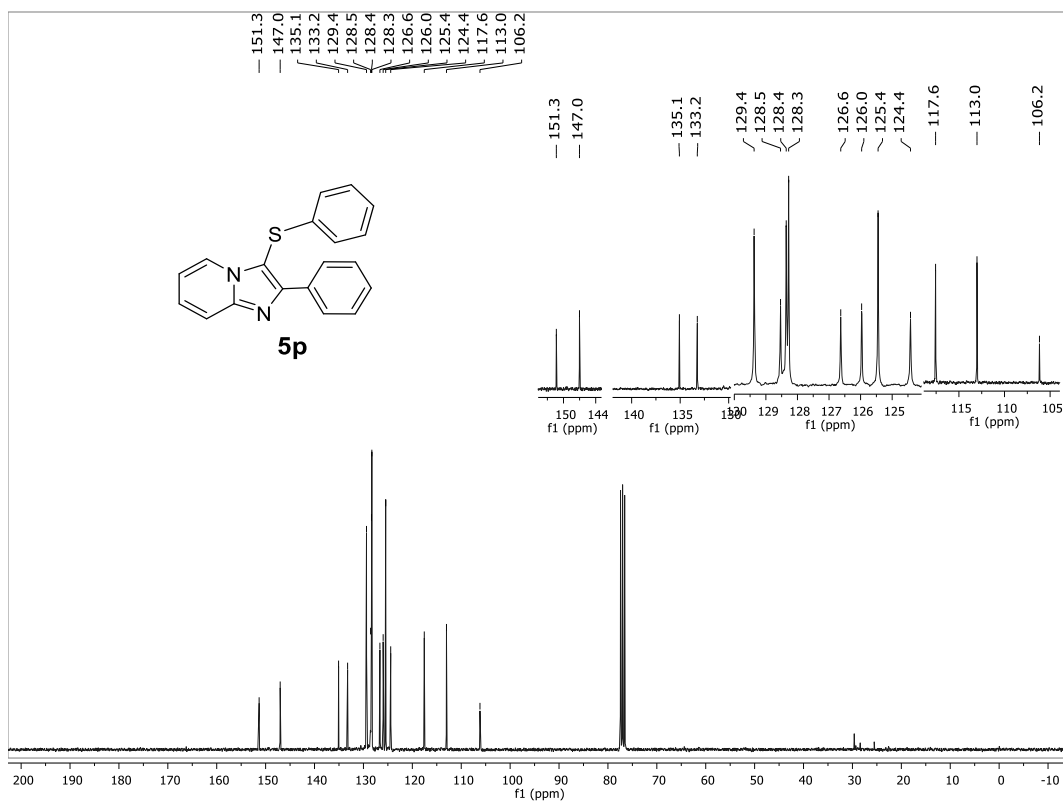
¹H NMR (400 MHz, CDCl₃) spectrum of 2-(4-methoxyphenyl)-3-(phenylselanyl)imidazo[1,2-a]pyridine (**5n**).



¹³C NMR (100 MHz, CDCl₃) spectrum of 2-(4-methoxyphenyl)-3-(phenylselanyl)imidazo[1,2-a]pyridine (**5n**).



¹H NMR (400 MHz, CDCl₃) spectrum of 2-phenyl-3-(phenylthio)imidazo[1,2-*a*]pyridine (**5p**).



¹³C NMR (100 MHz, CDCl₃) spectrum of 2-phenyl-3-(phenylthio)imidazo[1,2-*a*]pyridine (**5p**).