

Supplementary Material

Synthesis of 2-organylselenopheno[2,3-*b*]pyridines and 1,6-diazaselenanthrenes *via* radical cascade reactions using *tert*-butyl nitrite

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and Ricardo F. Schumacher^{*a,b}

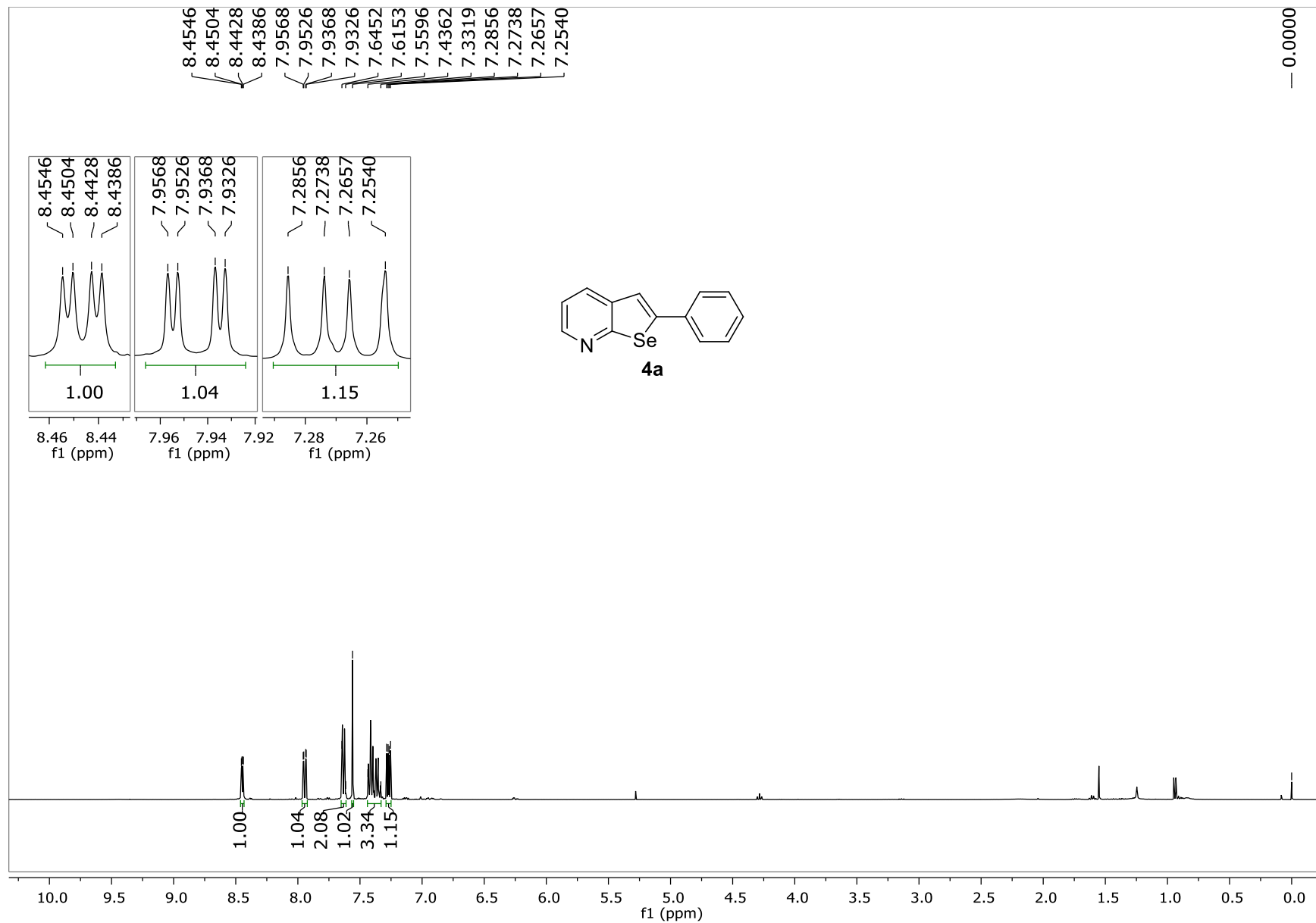
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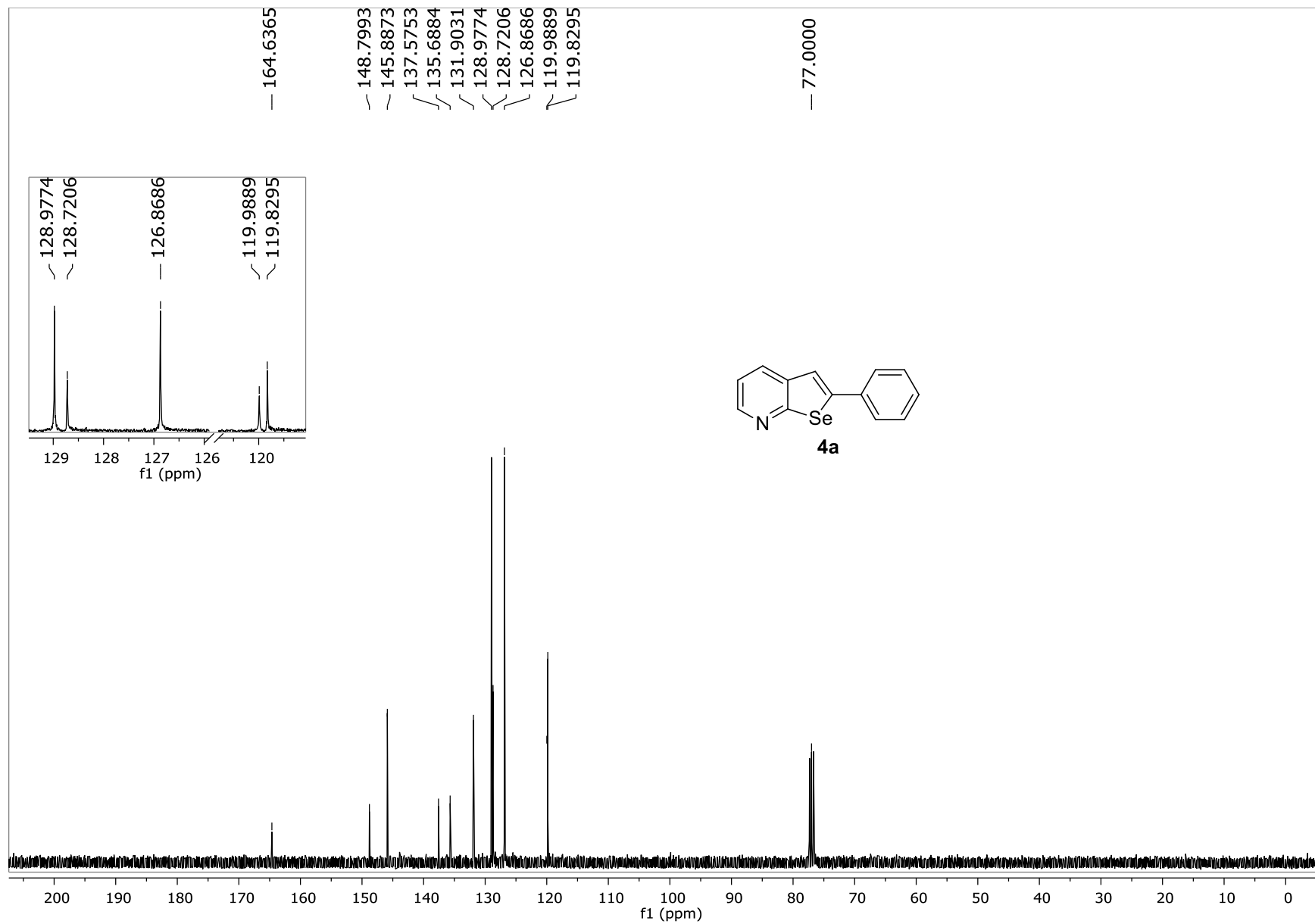
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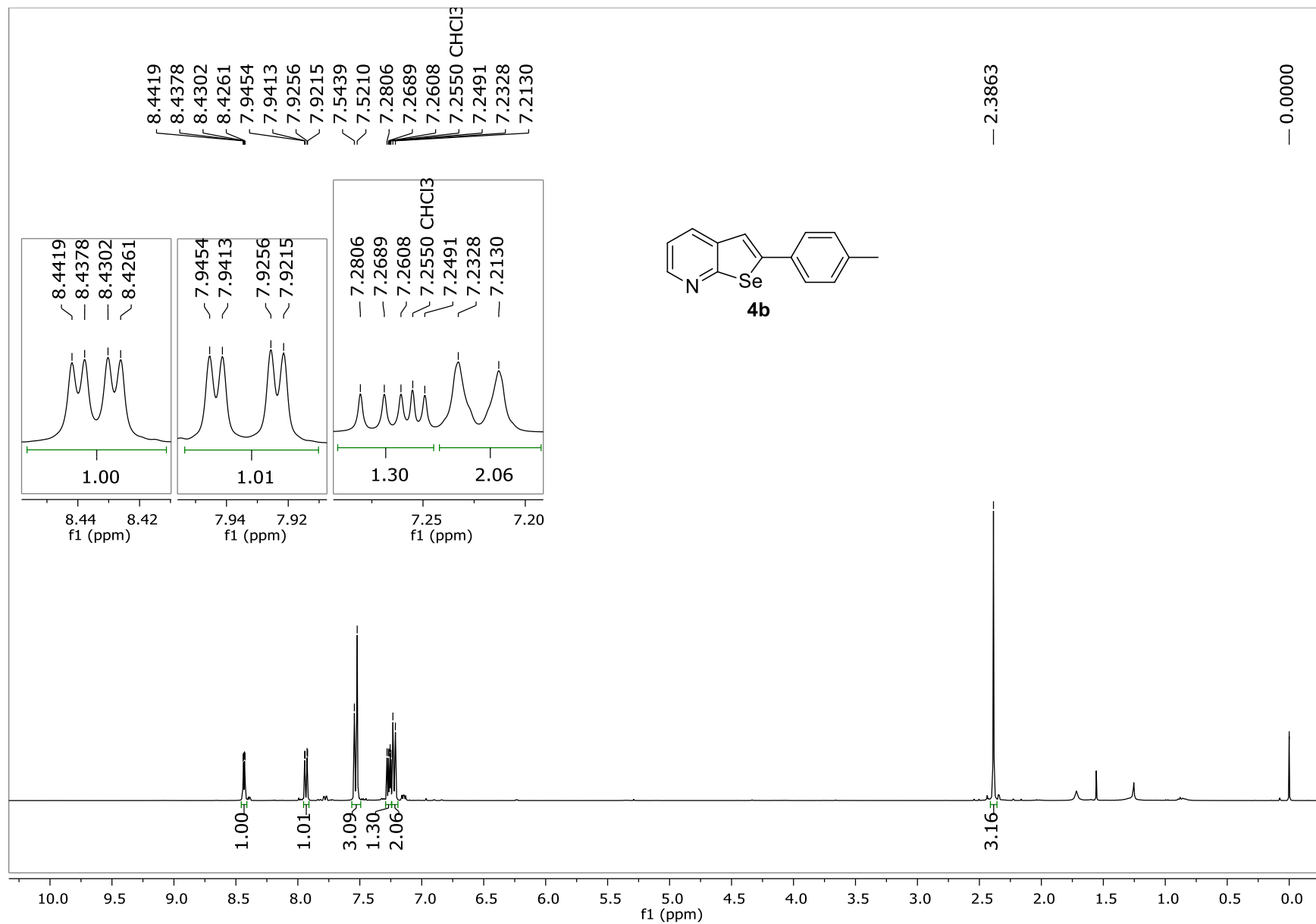
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(¹H, ¹³C and ⁷⁷Se) NMR spectra of compounds **4a-f**, **5a-c**, **6**, **7** S2

Figure 1: ^1H NMR (400 MHz, CDCl_3) spectrum of compound 4a.

Figure 2: ^{13}C NMR (100 MHz, CDCl_3) spectrum of compound **4a**.

Figure 3: ^1H NMR (400 MHz, CDCl_3) spectrum of compound **4b**.

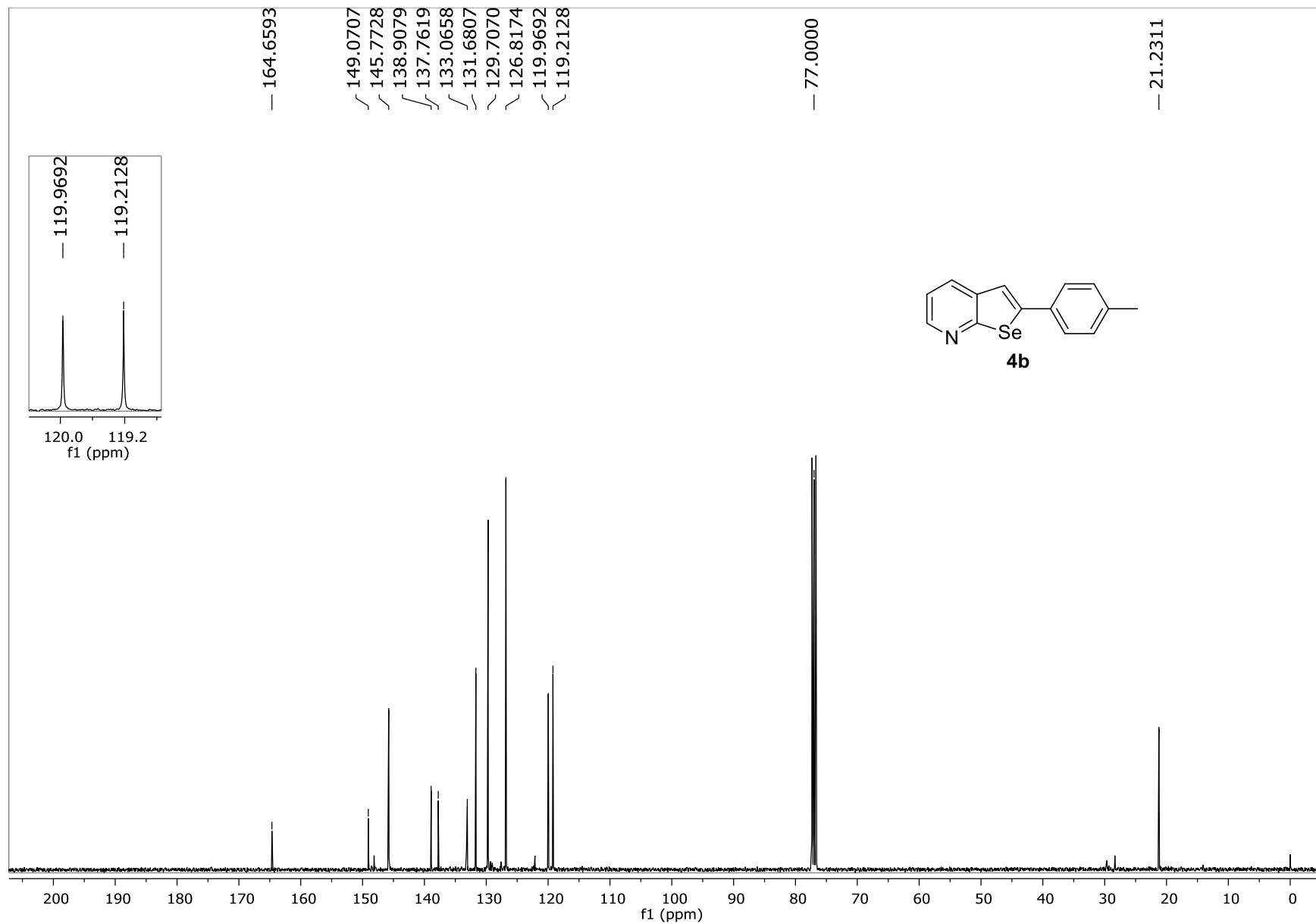
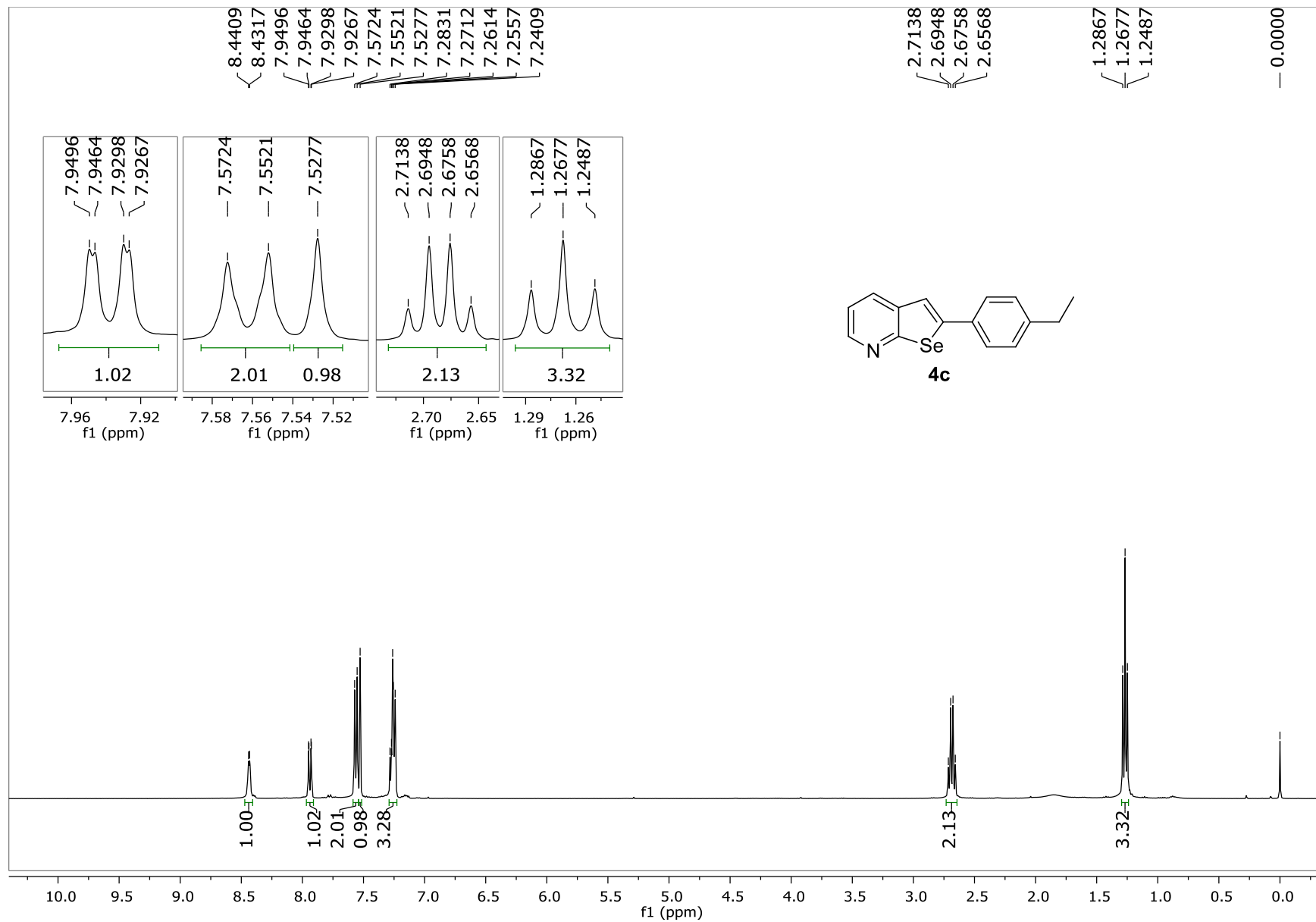
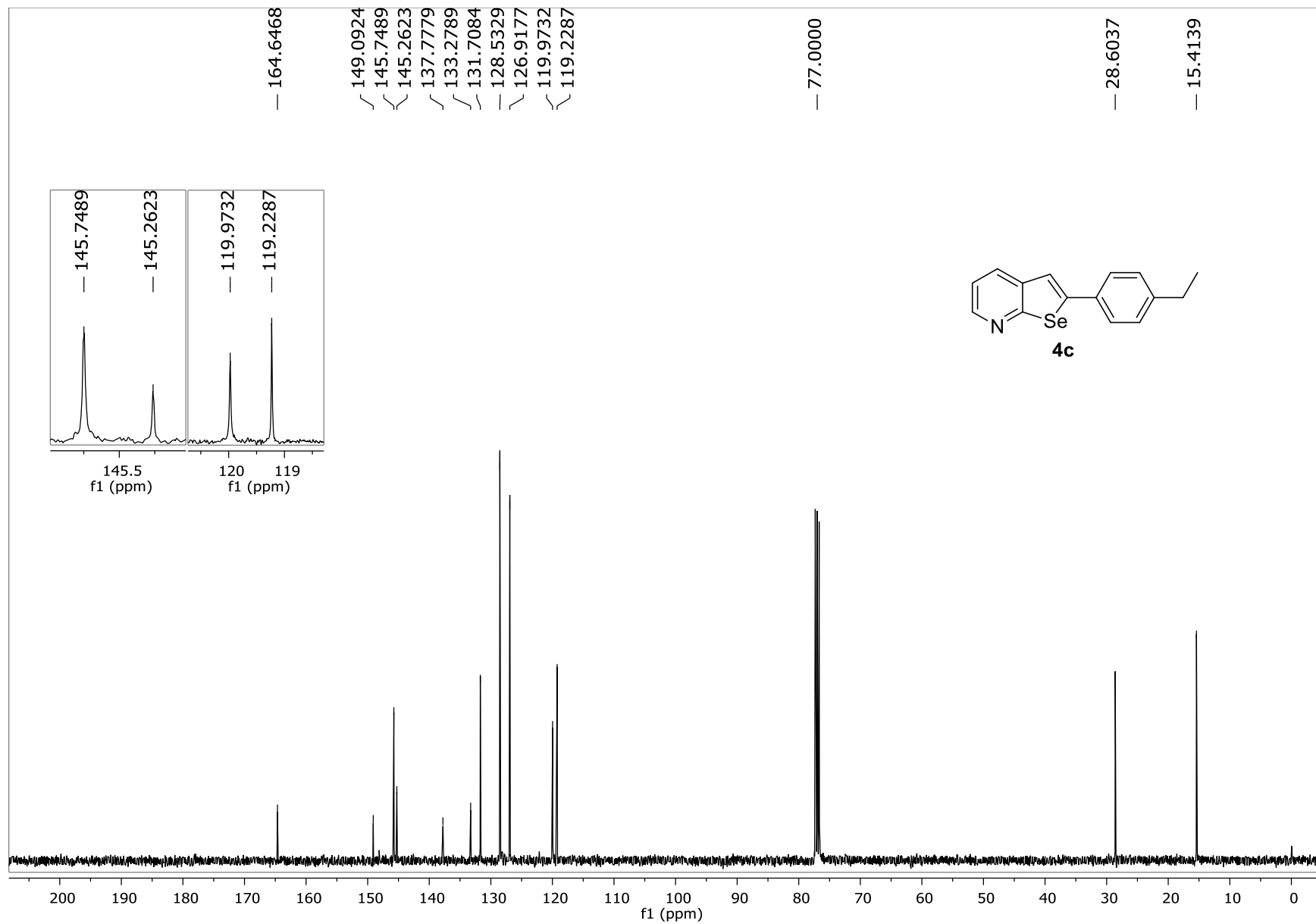
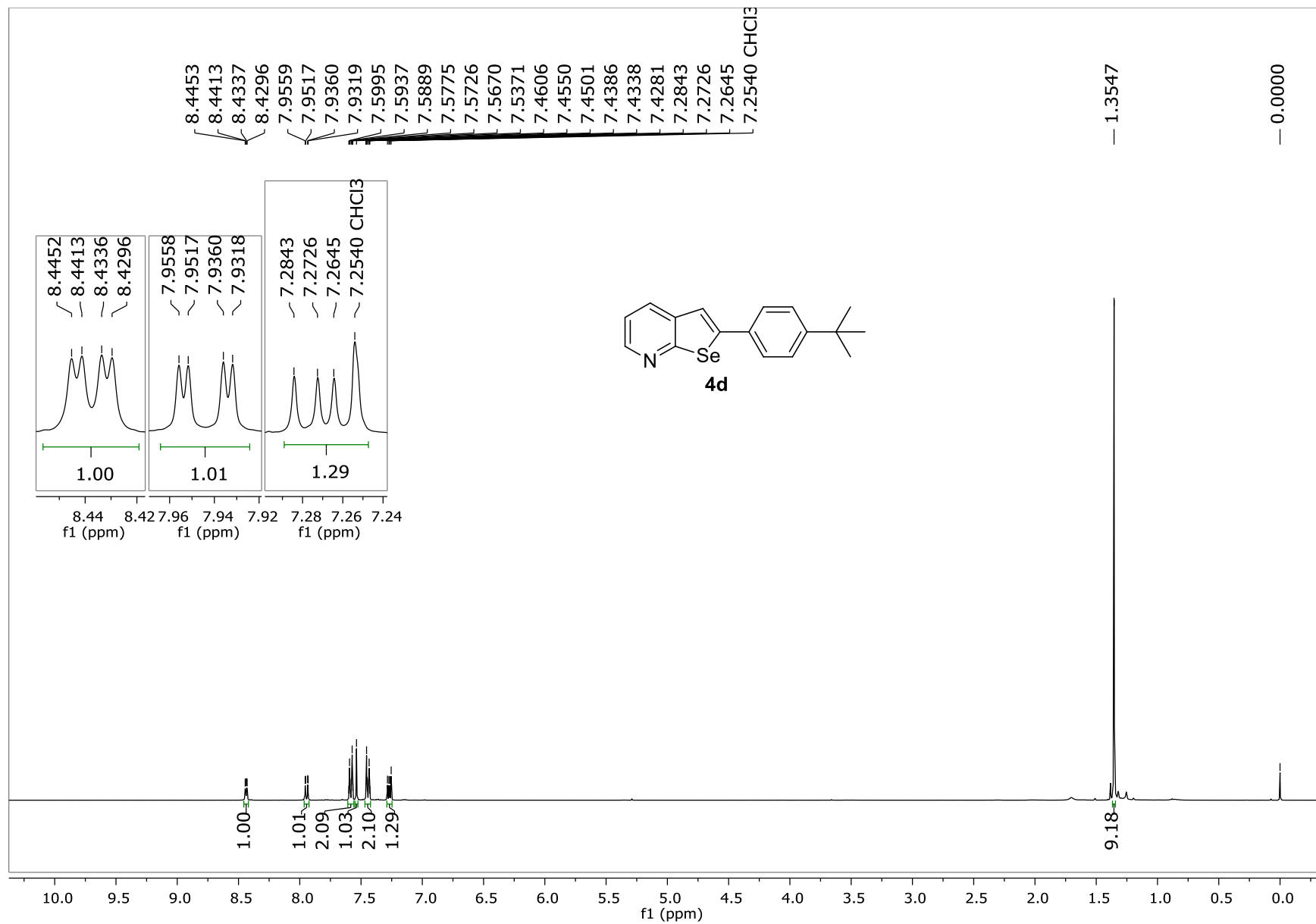
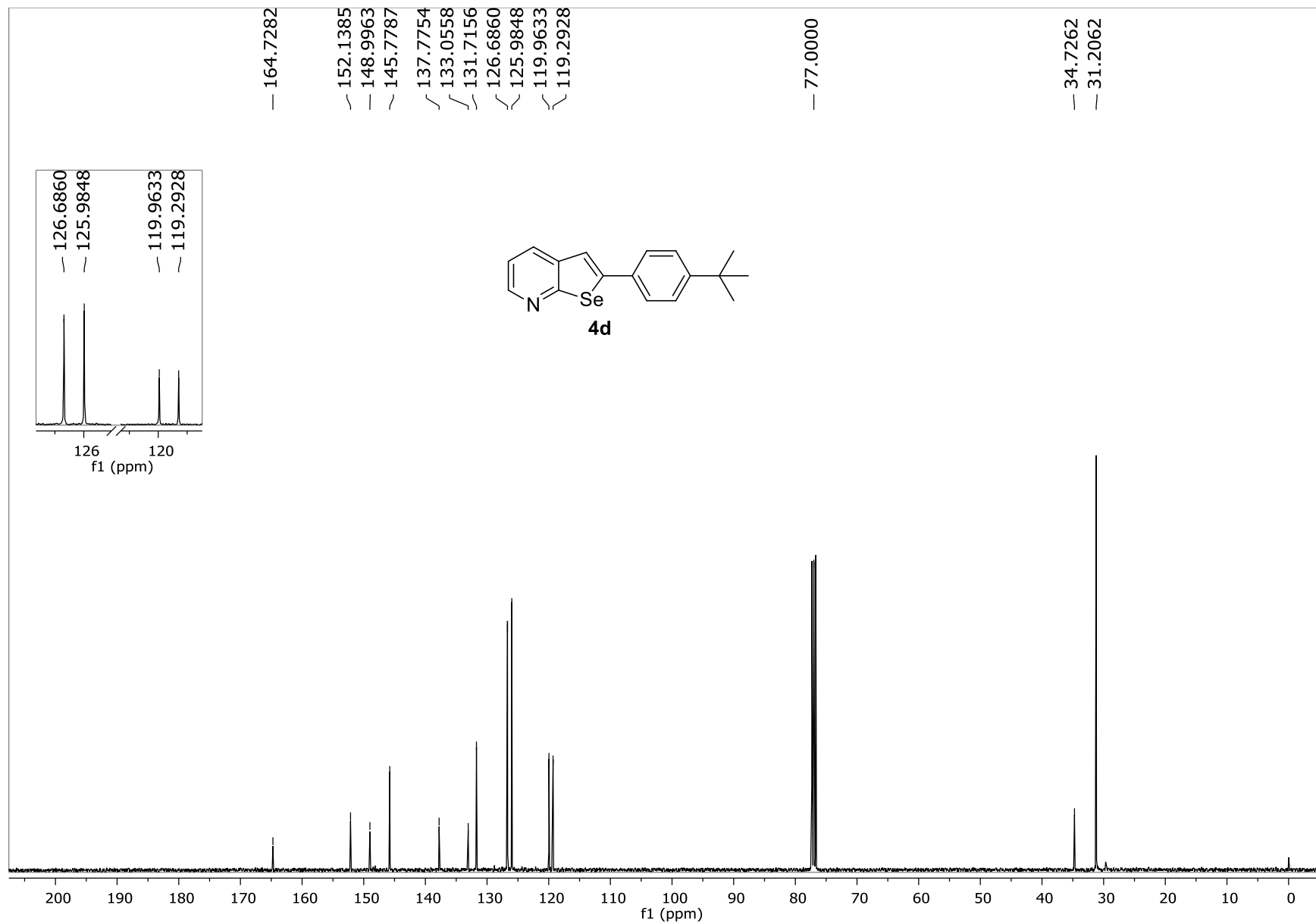


Figure 4: ¹³C NMR (100 MHz, CDCl₃) spectrum of compound **4b**.

Figure 5: ^1H NMR (400 MHz, CDCl_3) spectrum of compound **4c**.

Figure 6: ¹³C NMR (100 MHz, CDCl₃) spectrum of compound 4c.

Figure 7: ¹H NMR (400 MHz, CDCl₃) spectrum of compound **4d**.

Figure 8: ^{13}C NMR (100 MHz, CDCl_3) spectrum of compound **4d**.

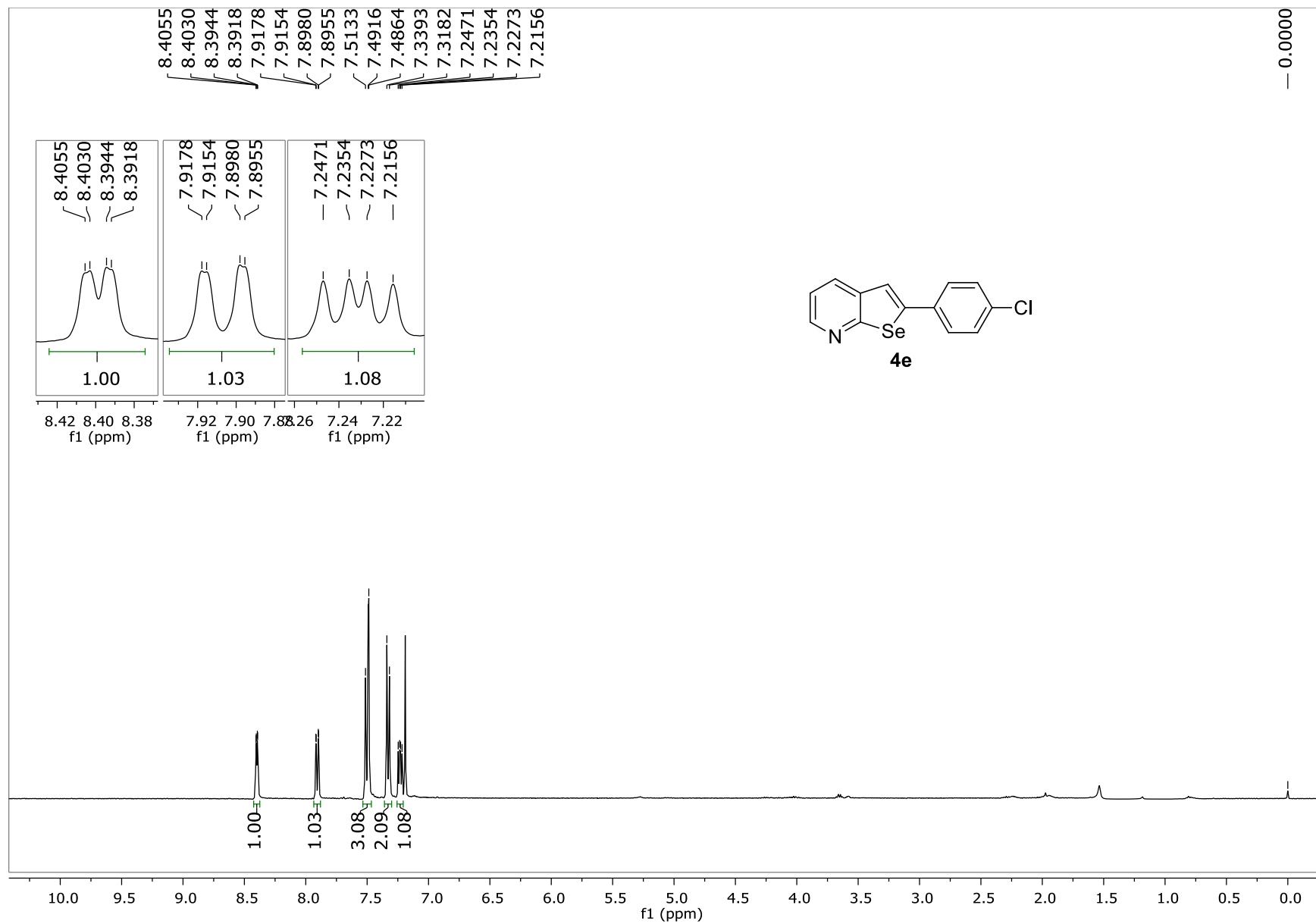


Figure 9: ^1H NMR (400 MHz, CDCl_3) spectrum of compound **4e**.

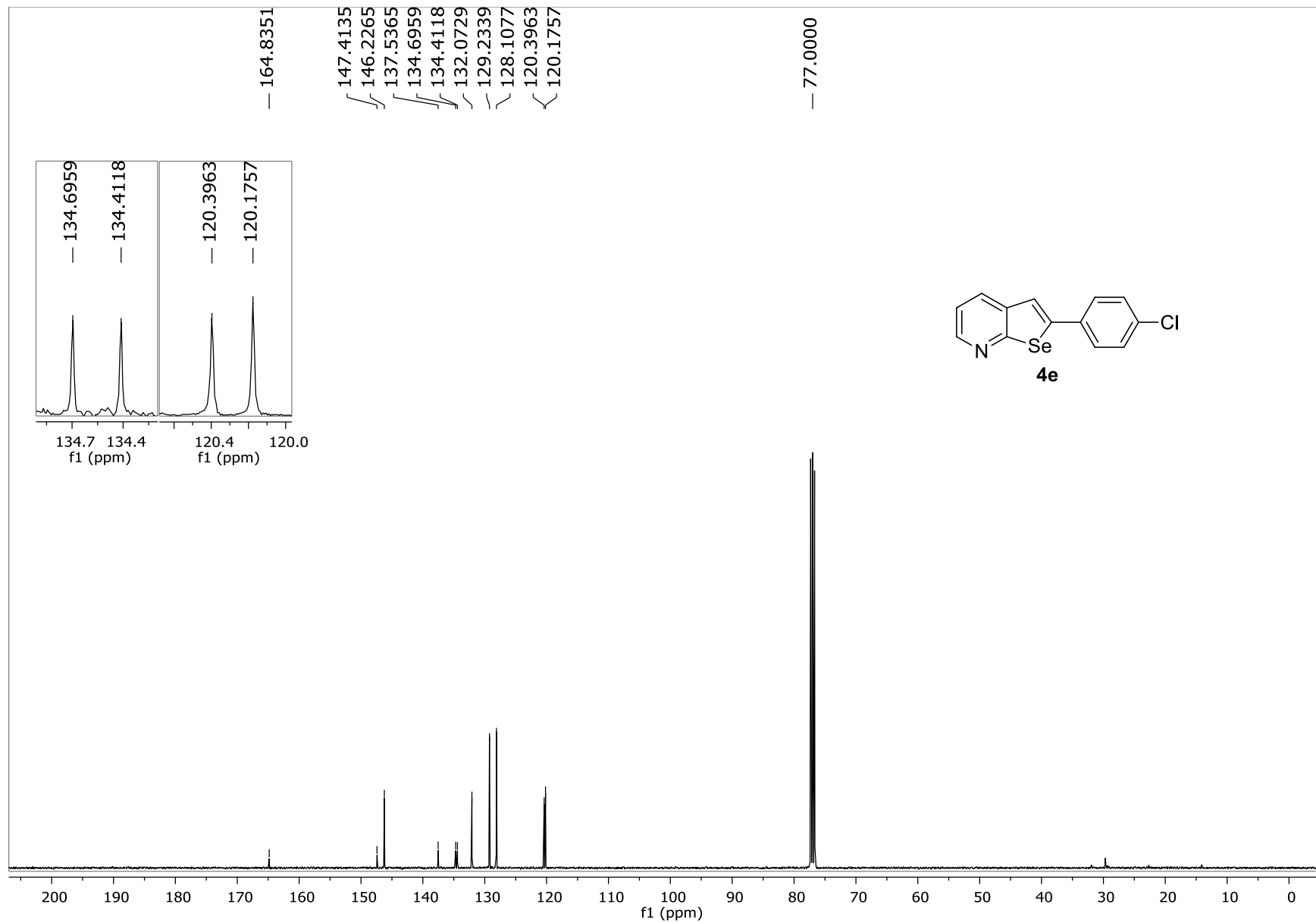
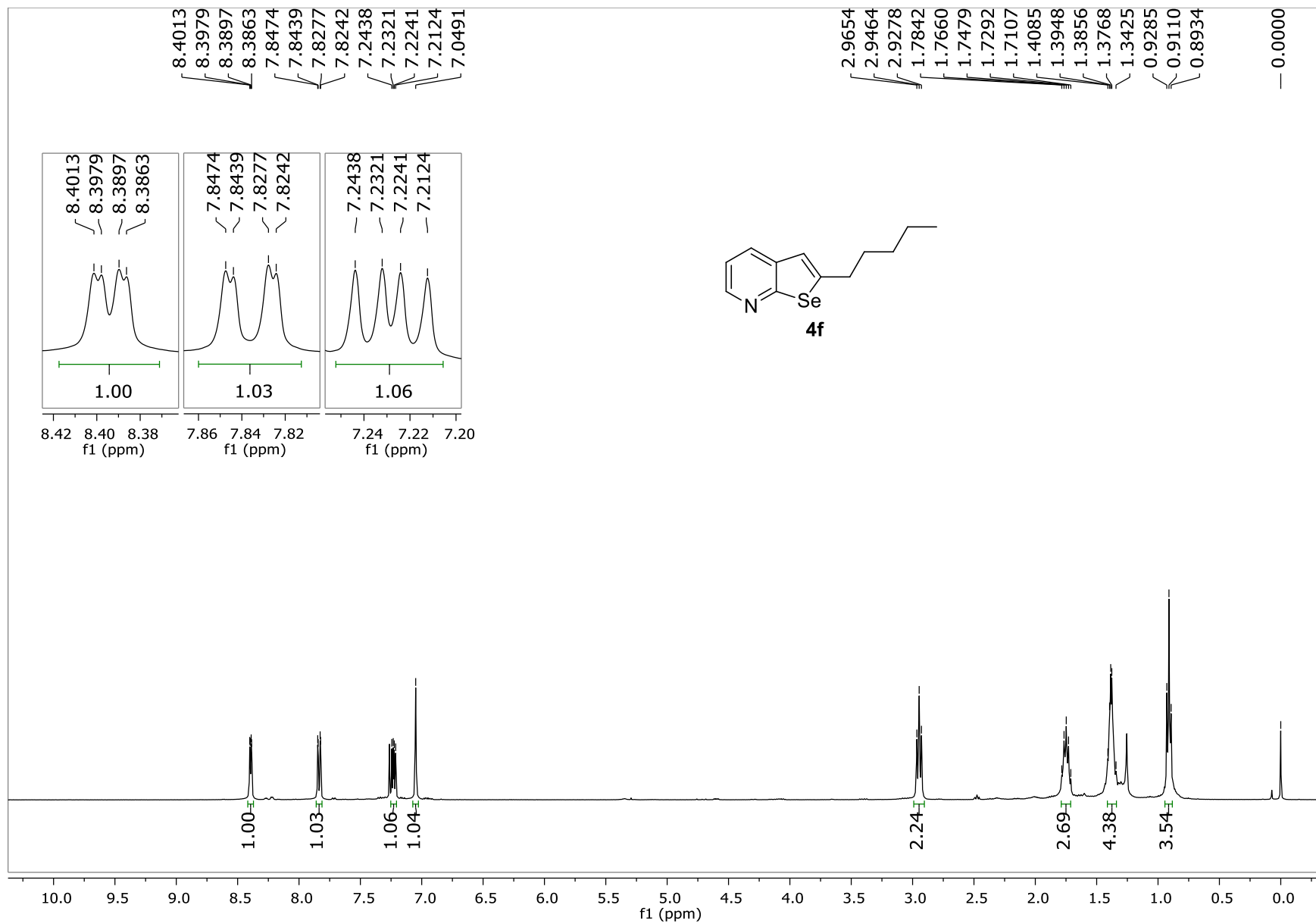


Figure 10: ¹³C NMR (100 MHz, CDCl₃) spectrum of compound **4e**.

Figure 11: ¹H NMR (100 MHz, CDCl₃) spectrum of compound **4f**.

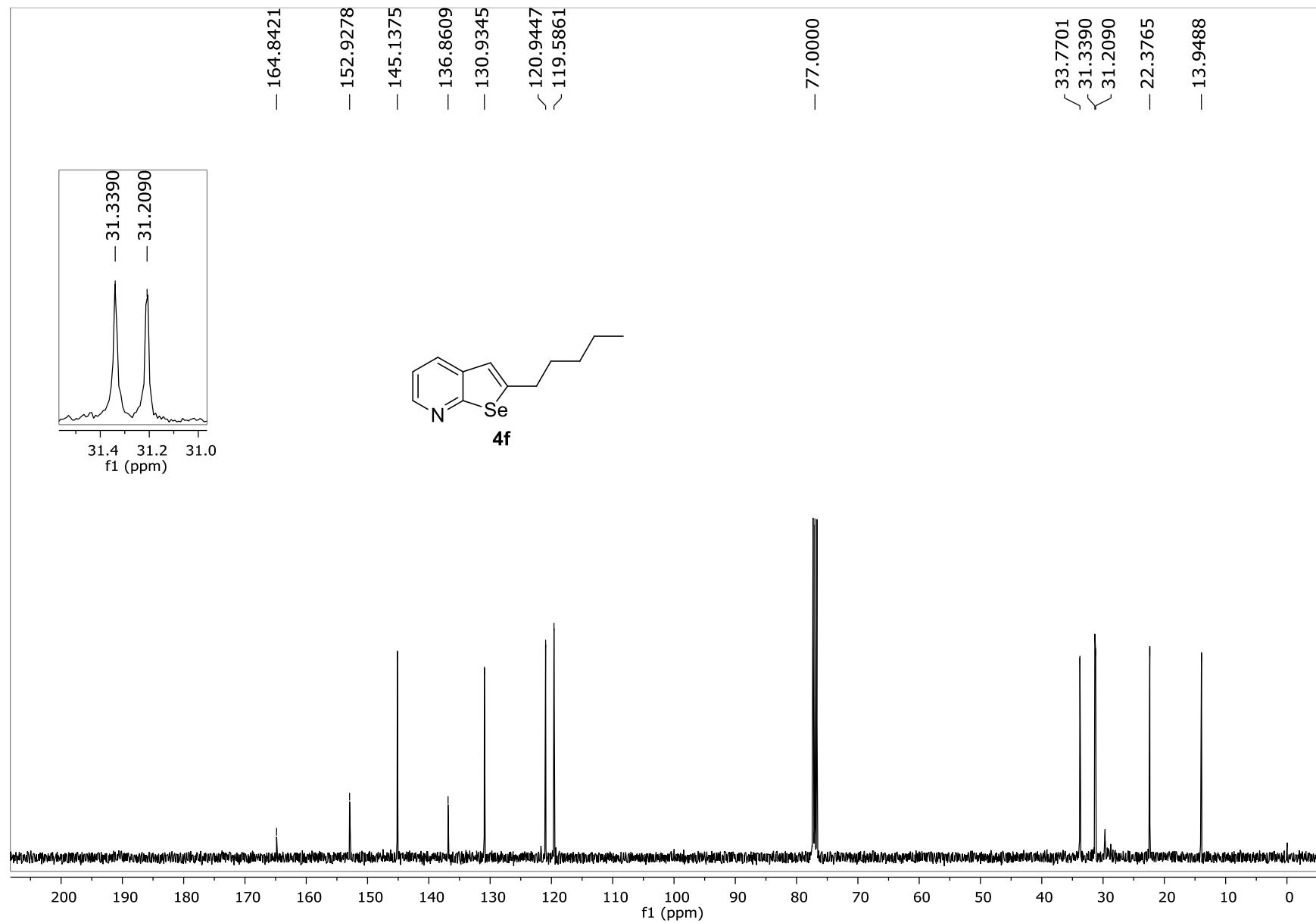
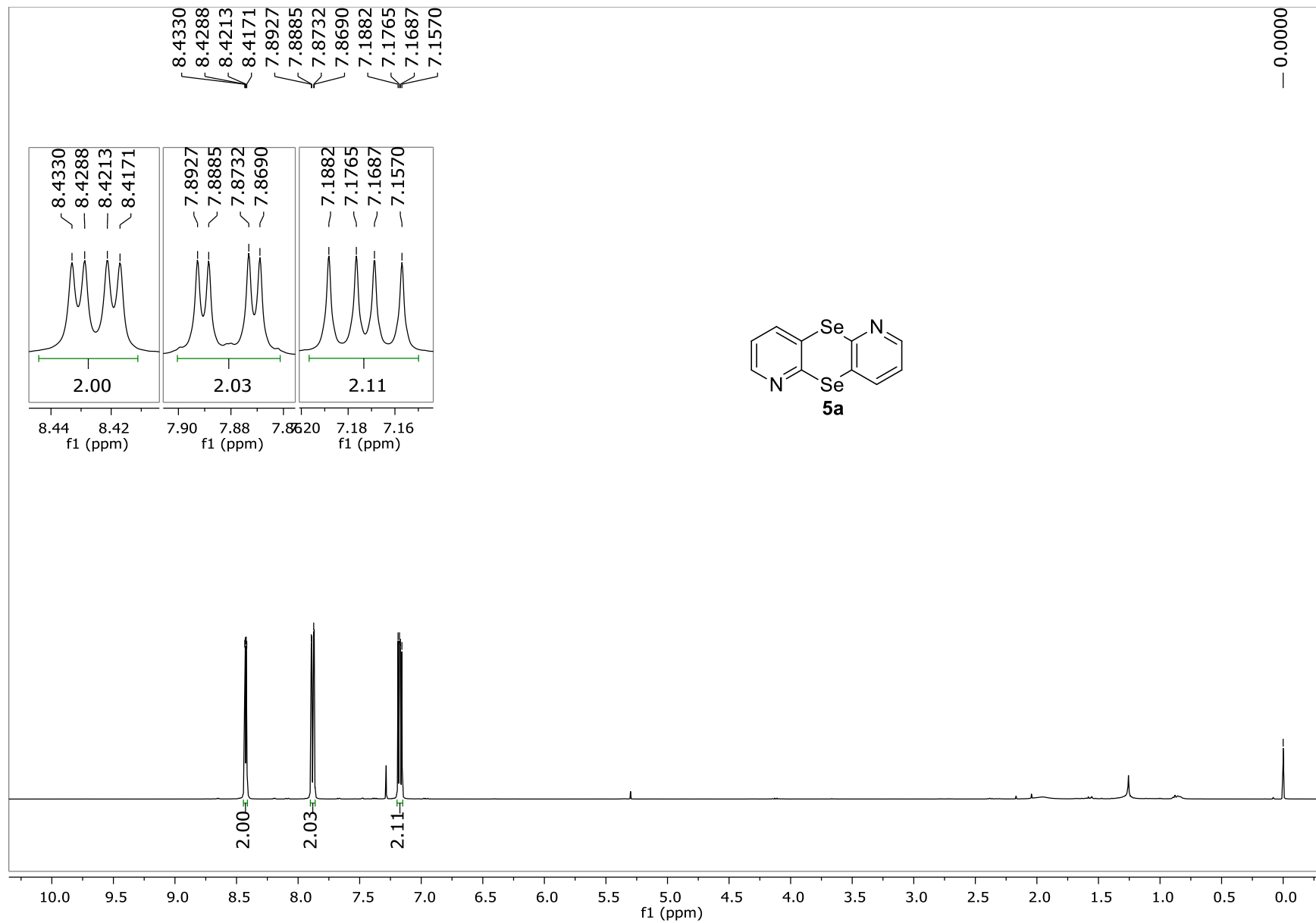


Figure 12: ¹³C NMR (100 MHz, CDCl₃) spectrum of compound 4f.

Figure 13: $^1\text{H NMR}$ (400 MHz, CDCl_3) spectrum of compound **5a**.

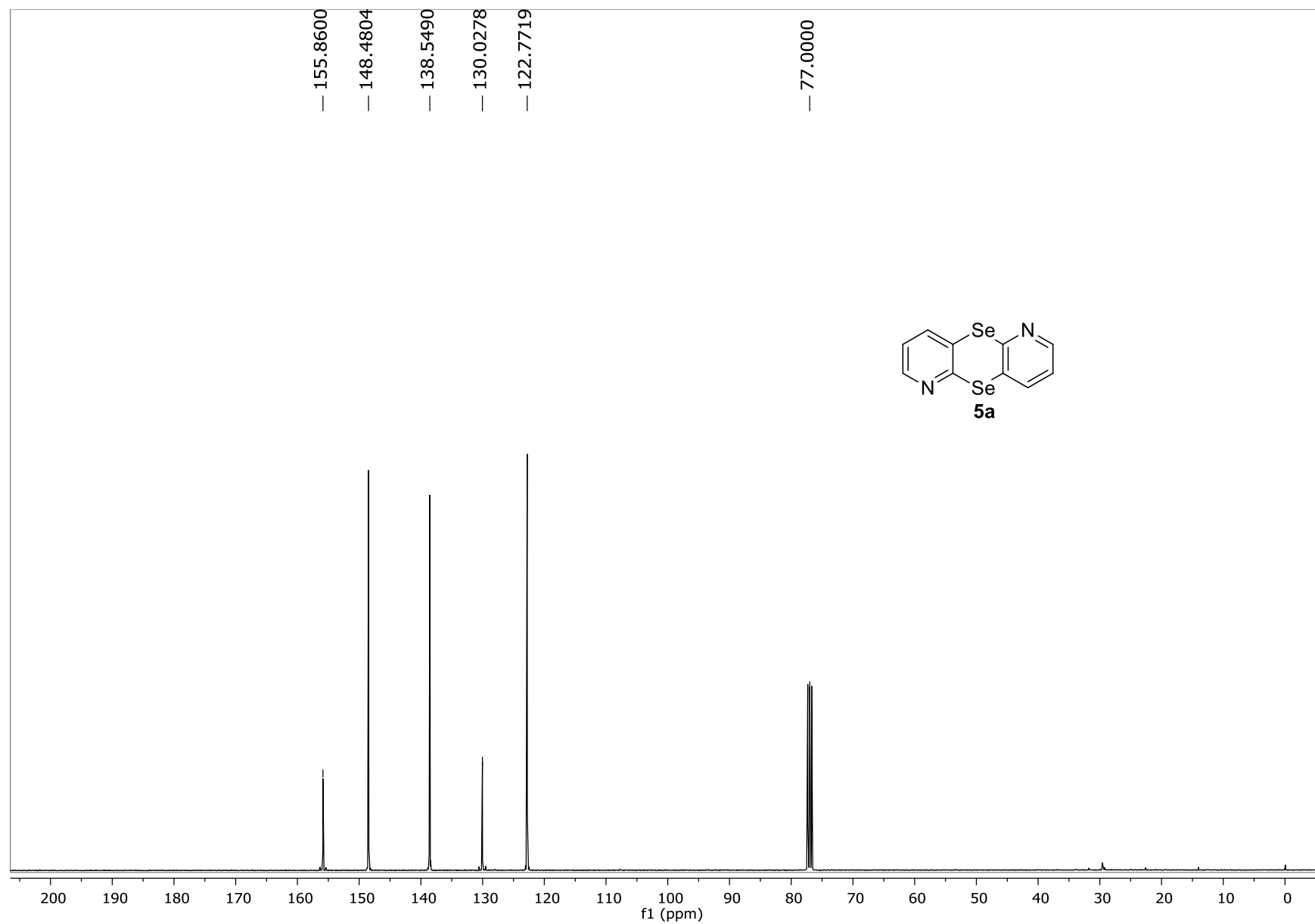
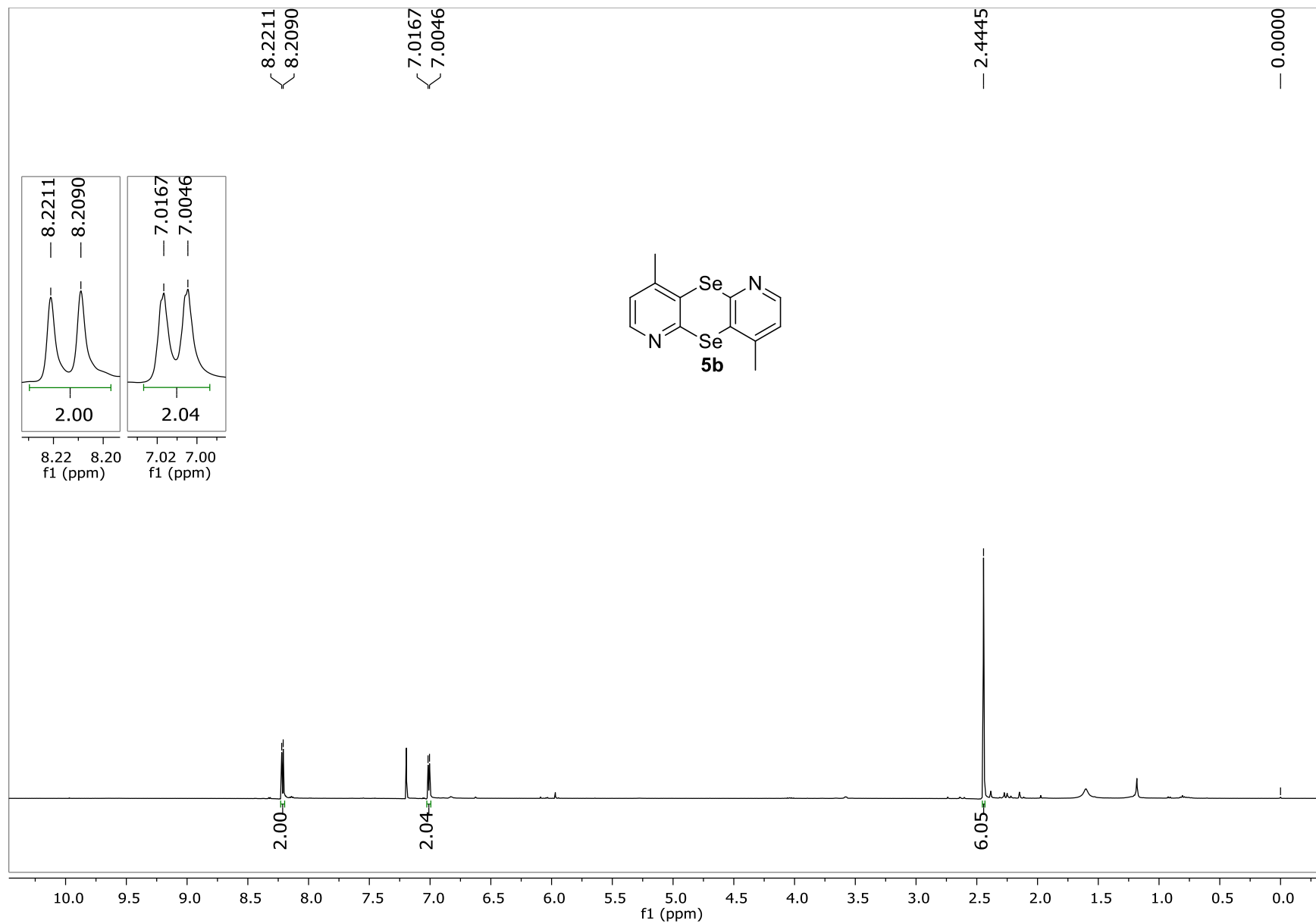
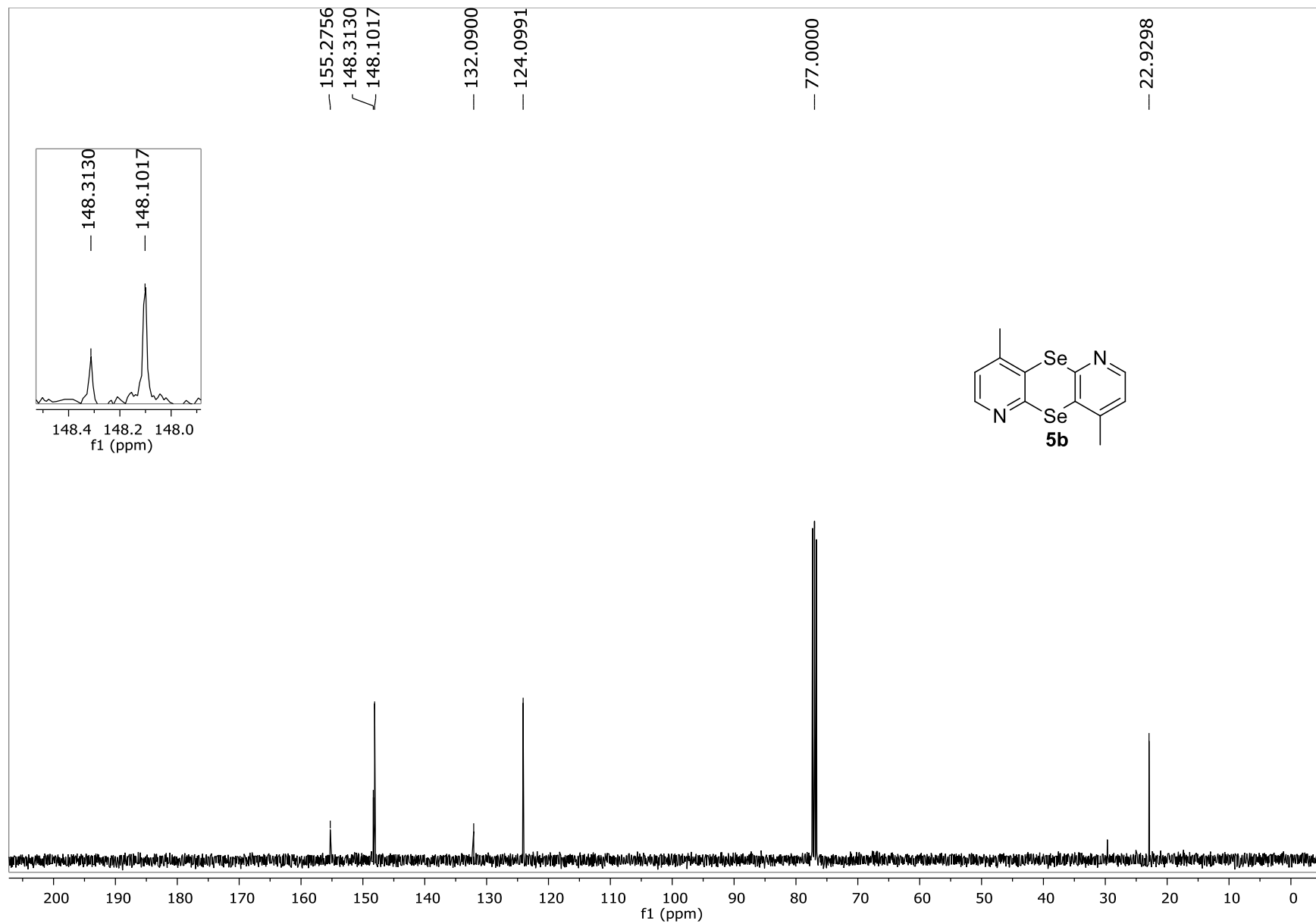
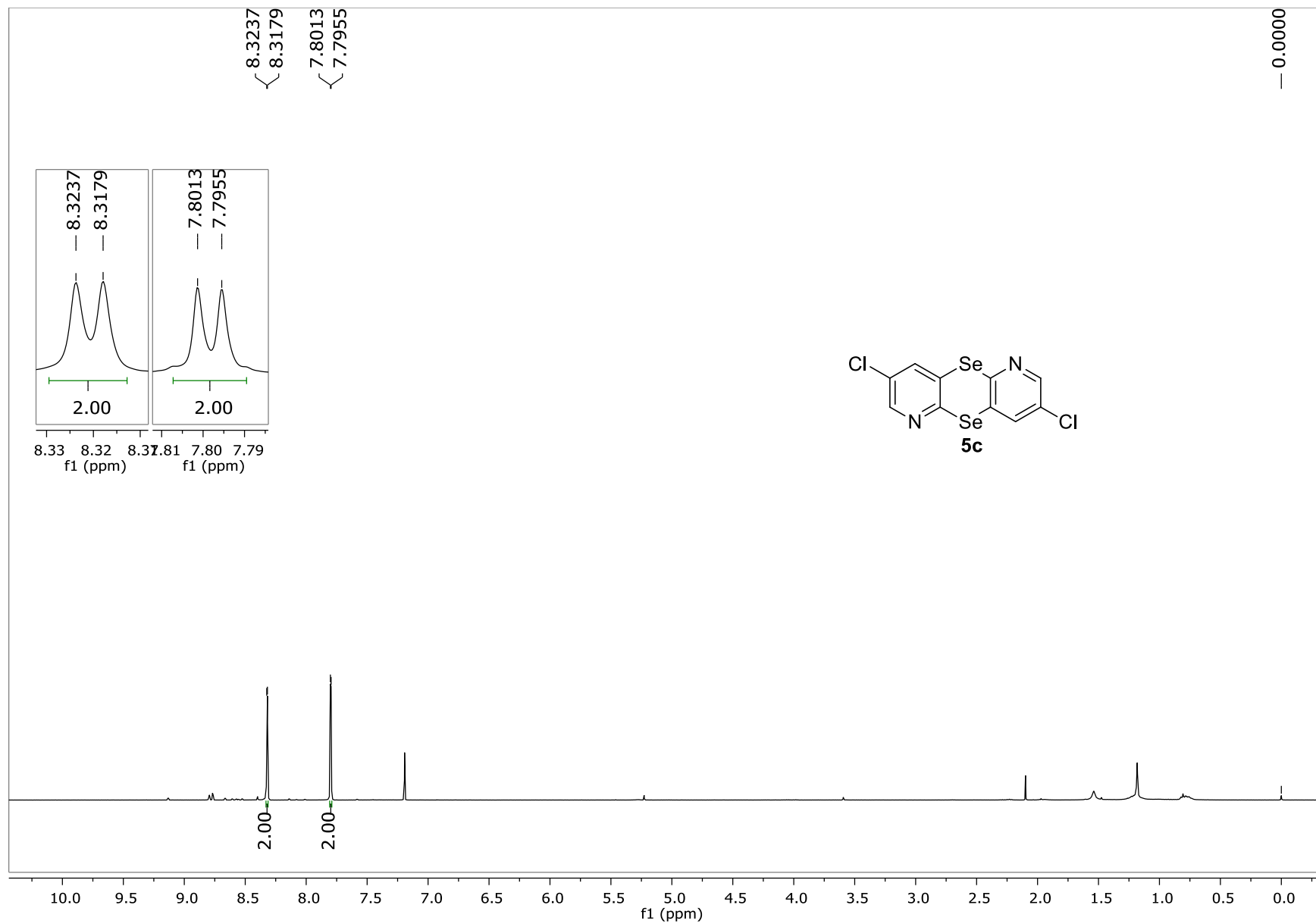


Figure 14: ^{13}C NMR (100 MHz, CDCl_3) spectrum of compound 5a.

Figure 15: ¹H NMR (400 MHz, CDCl₃) spectrum of compound 5b.

Figure 16: ^{13}C NMR (100 MHz, CDCl_3) spectrum of compound **5b**.

Figure 17: ^1H NMR (400 MHz, CDCl_3) spectrum of compound **5c**.

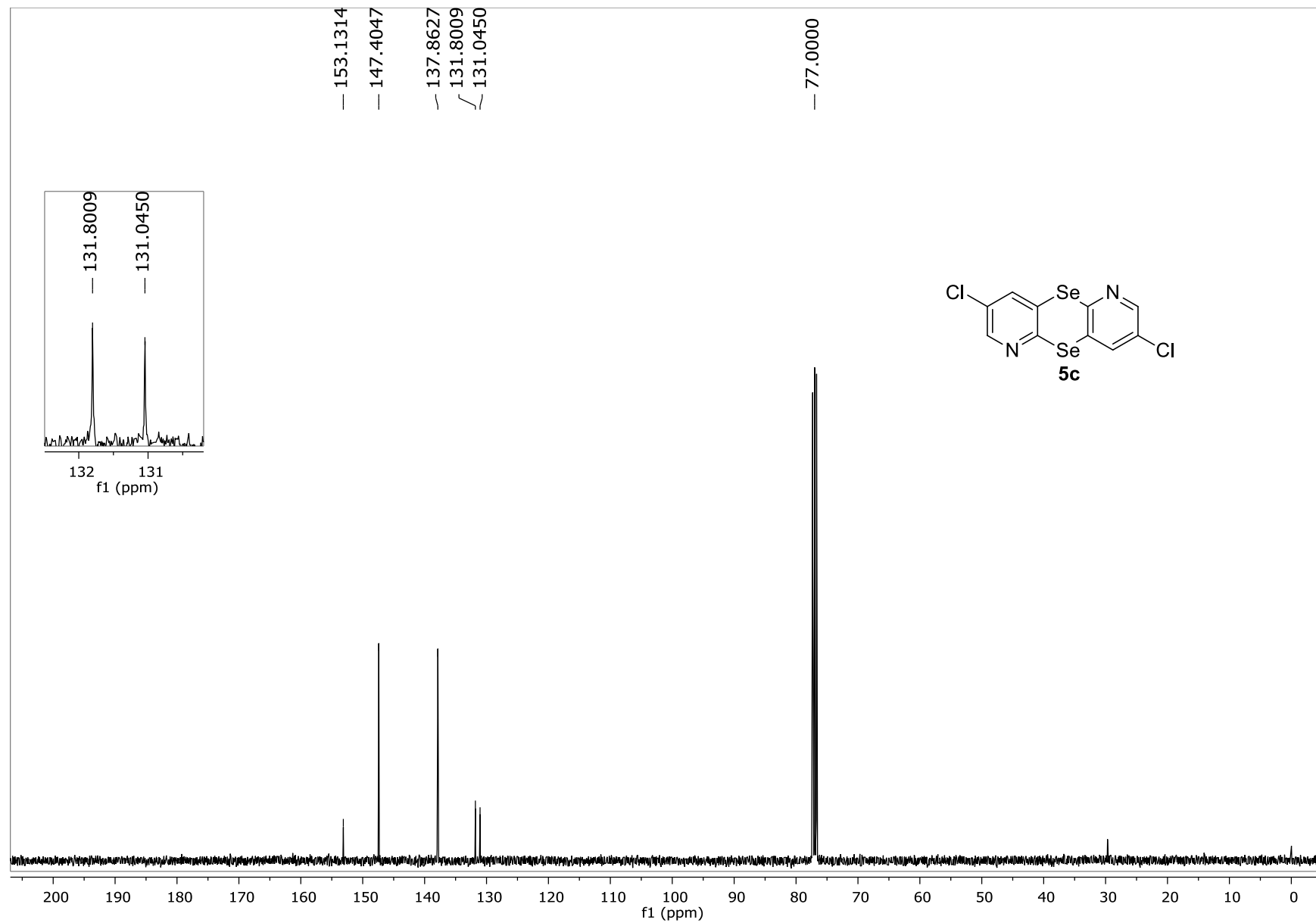
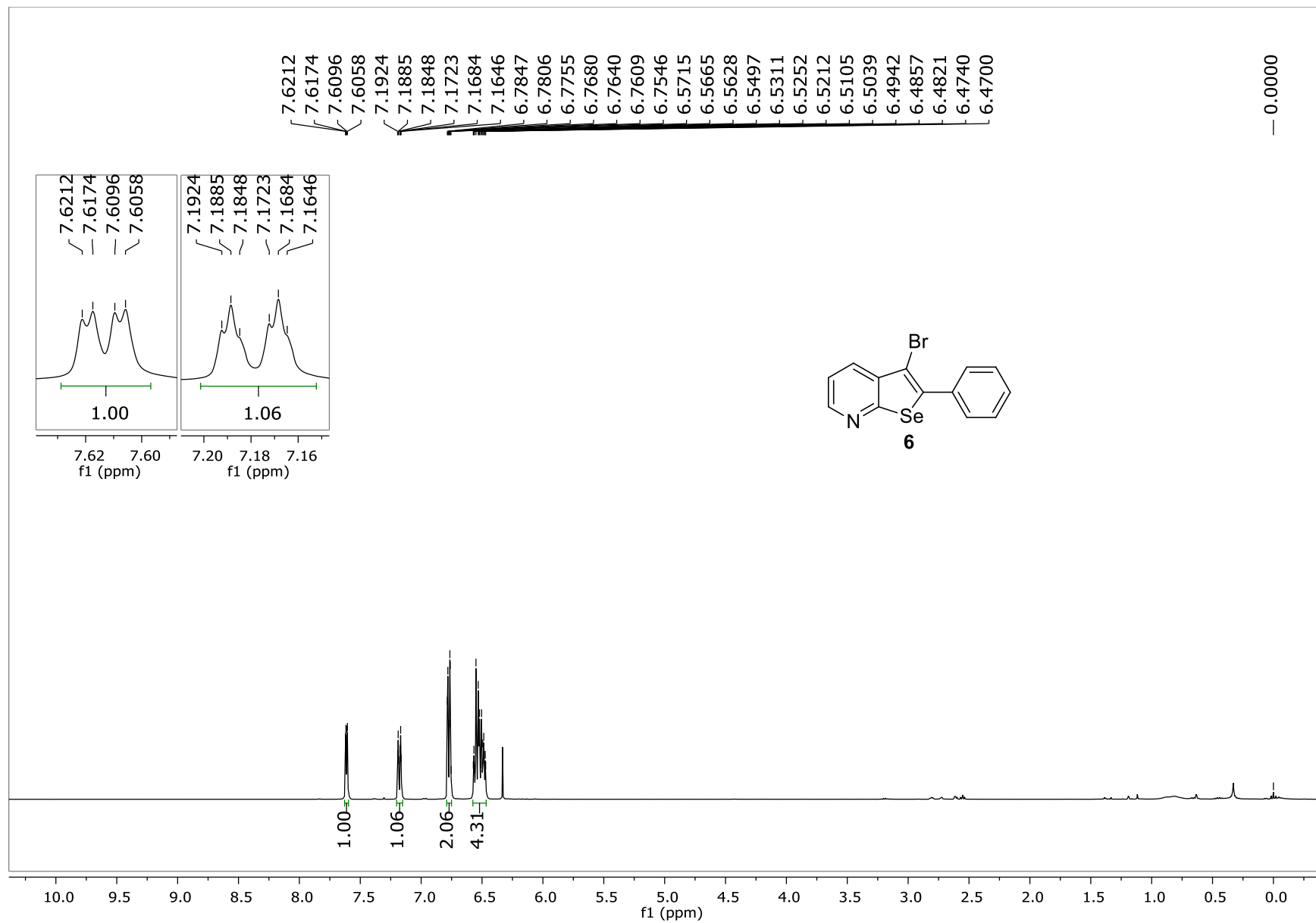


Figure 18: ^{13}C NMR (100 MHz, CDCl_3) spectrum of compound **5c**.

Figure 19: ^1H NMR (400 MHz, CDCl_3) spectrum of compound 6.

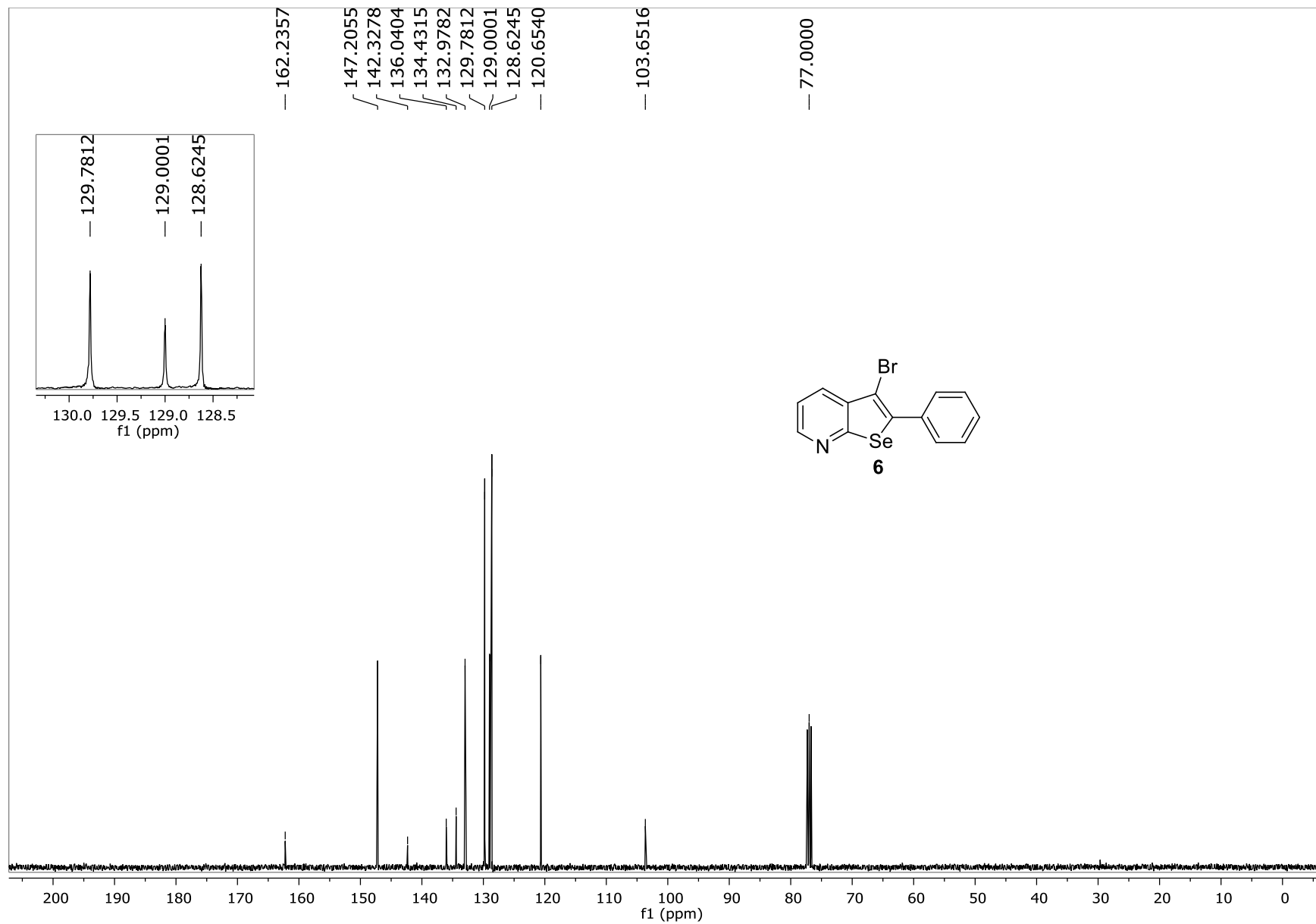


Figure 20: ^{13}C NMR (100 MHz, CDCl_3) spectrum of compound 6.

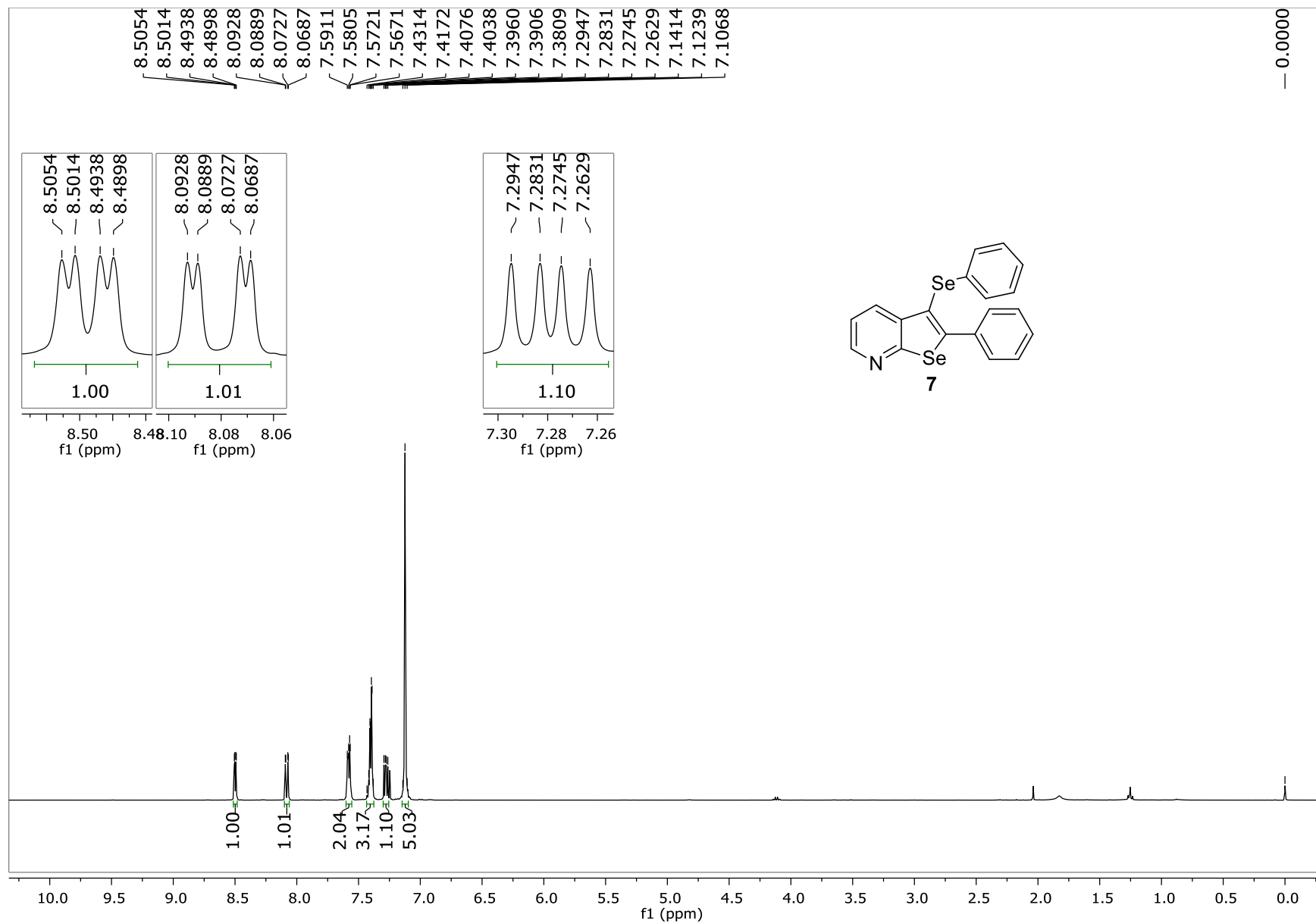
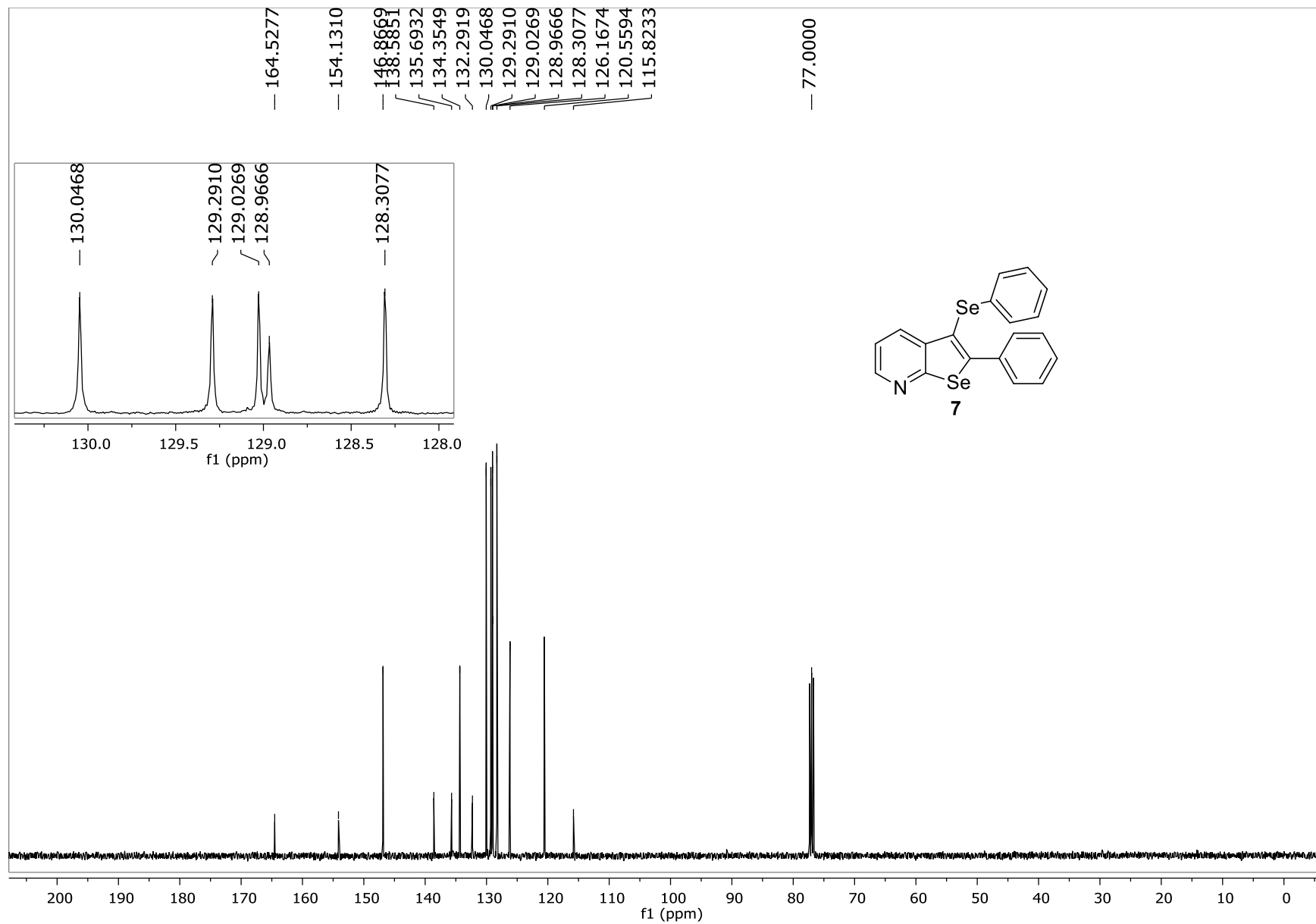


Figure 21: ^1H NMR (400 MHz, CDCl_3) spectrum of compound 7.

Figure 22: ^{13}C NMR (100 MHz, CDCl_3) spectrum of compound 7.

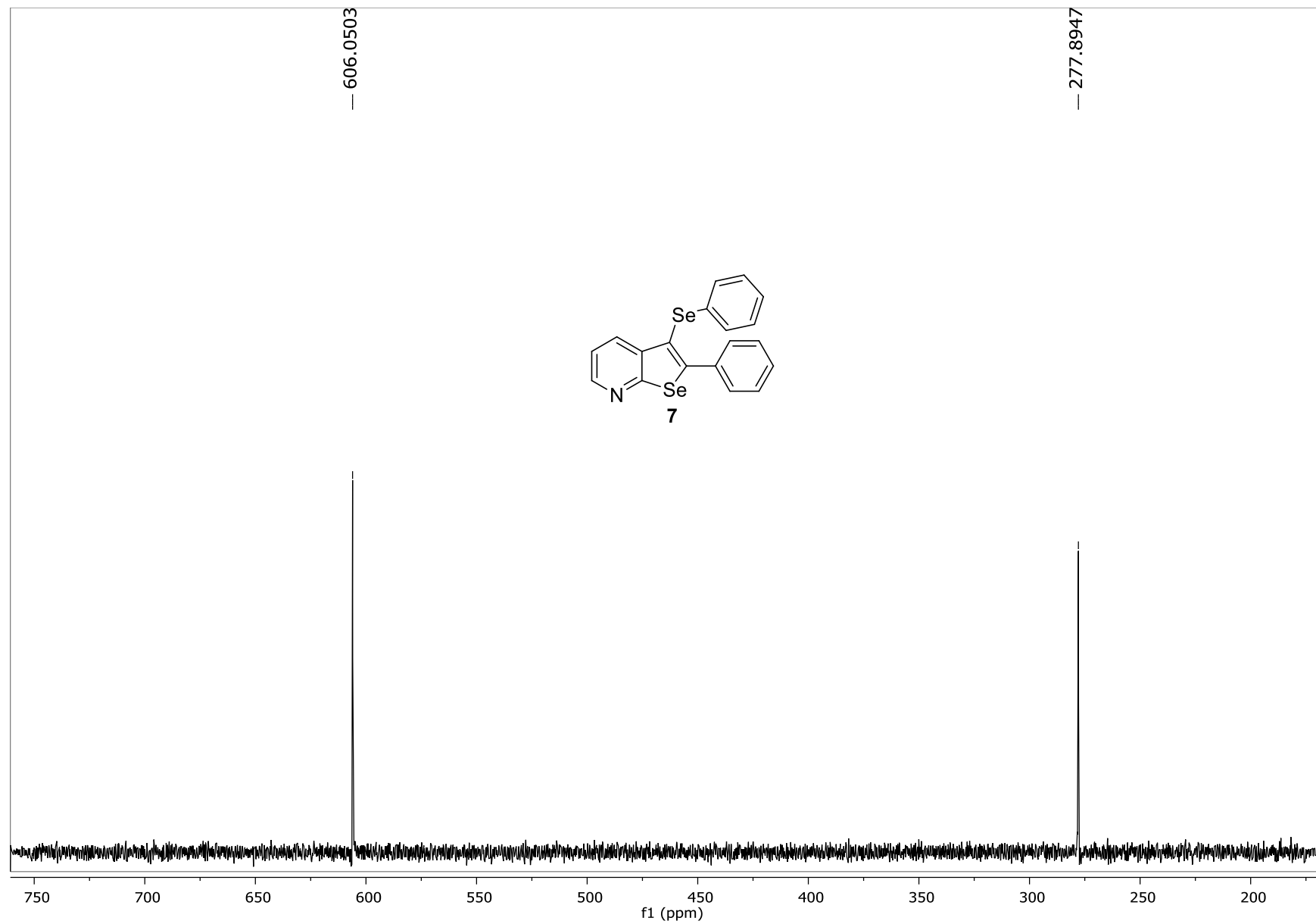


Figure 23: ^{77}Se NMR (76 MHz, CDCl_3) spectrum of compound 7.