

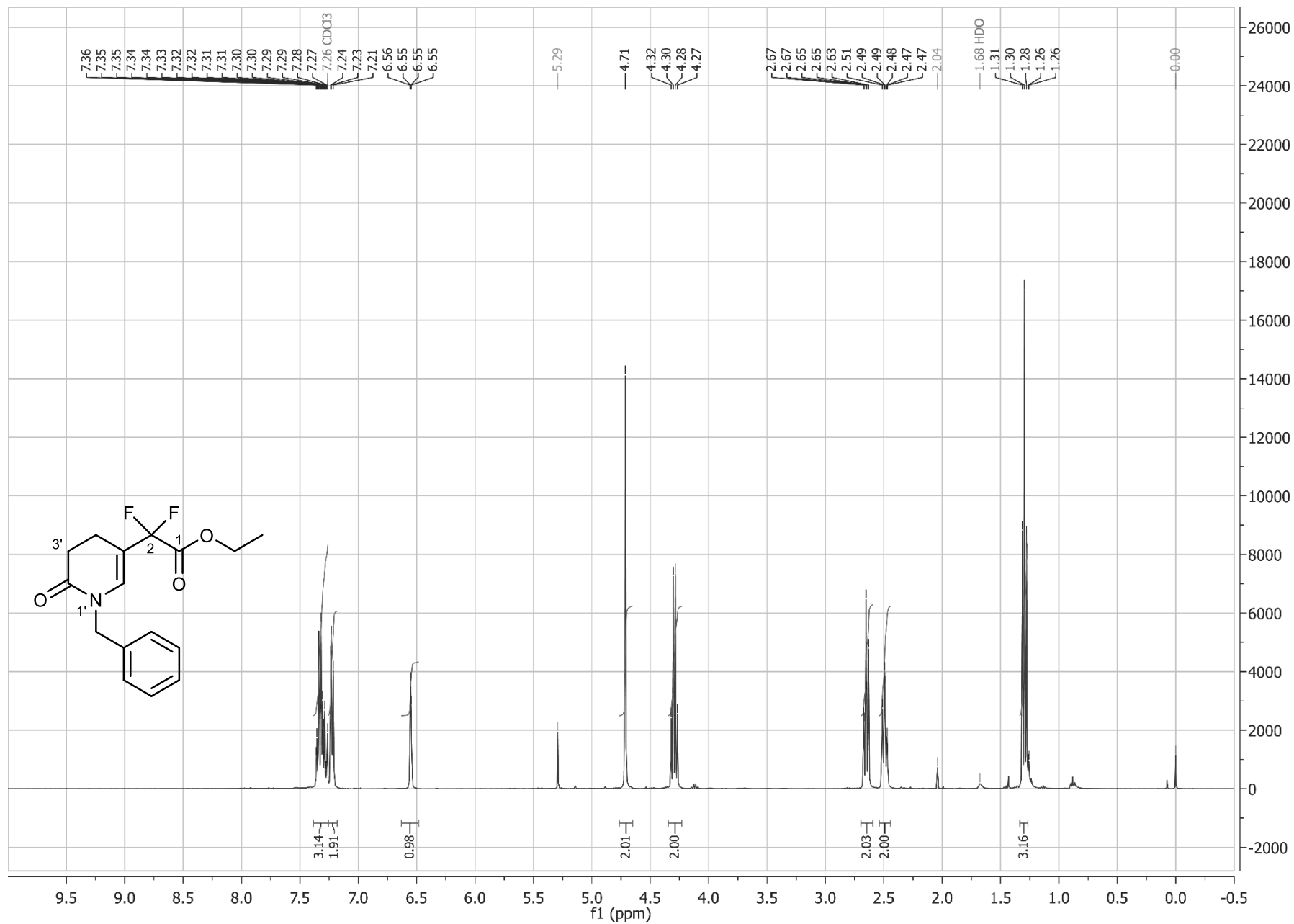
Supporting Information

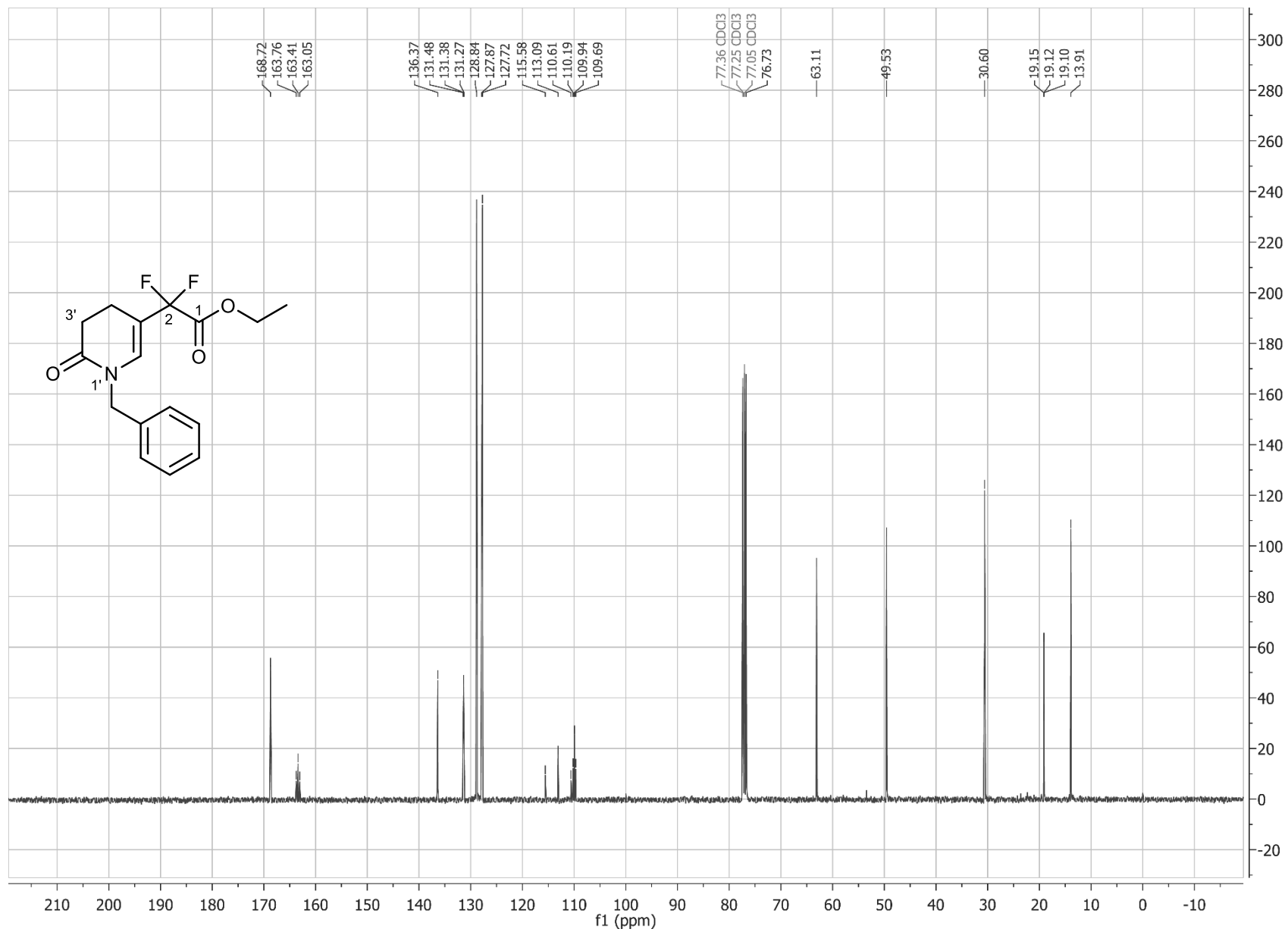
Iron Catalyzed $\beta\text{C}(sp^2)\text{-H}$ Alkylation of Enamides

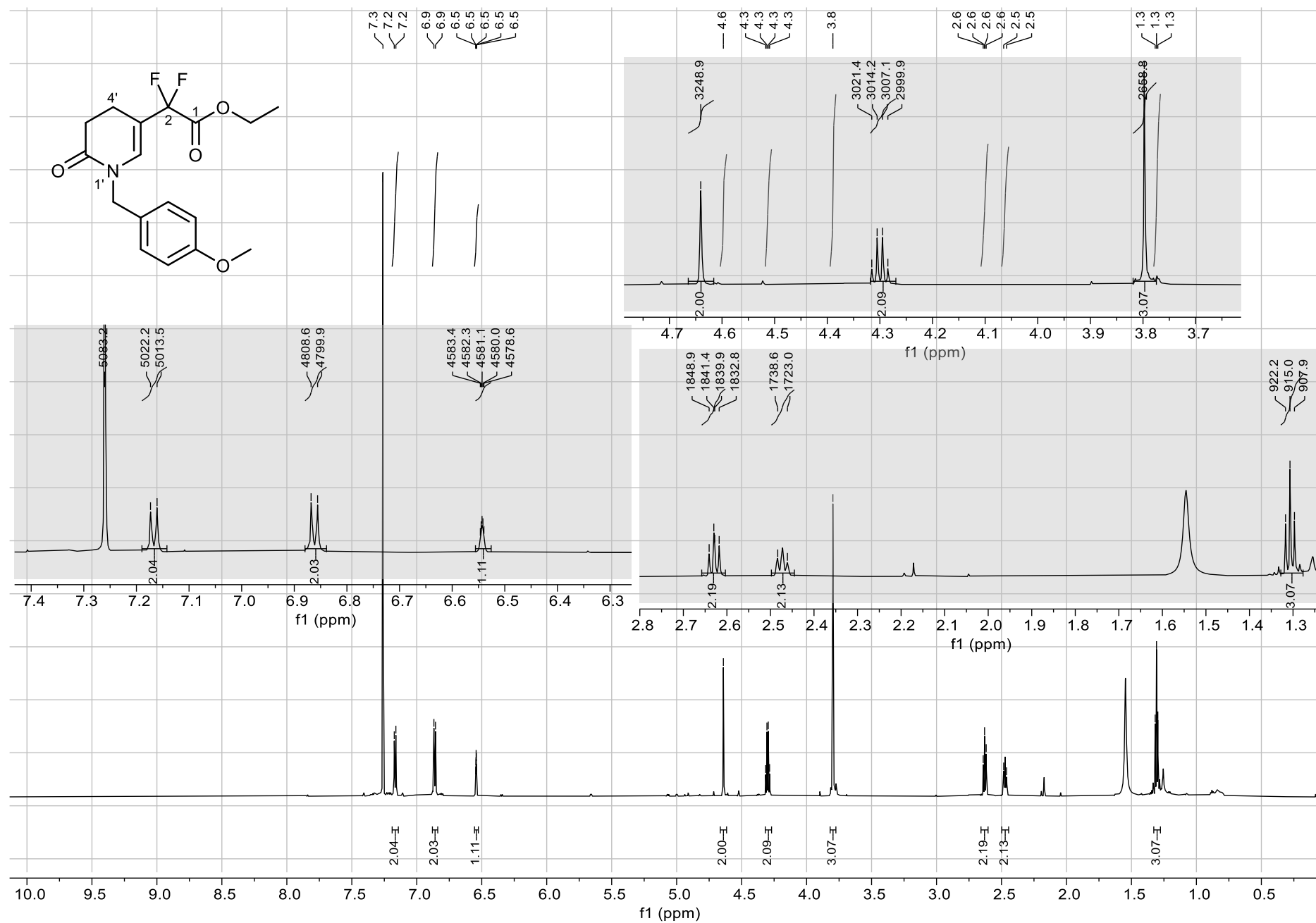
**Sylvain Bertho,^a Radhouan Maazaoui,^a Damla Torun,^a Ismaël Dondasse,^a Raoudha Abderrahim,^b Cyril Nicolas^{a*} and
Isabelle Gillaizeau^{a*}**

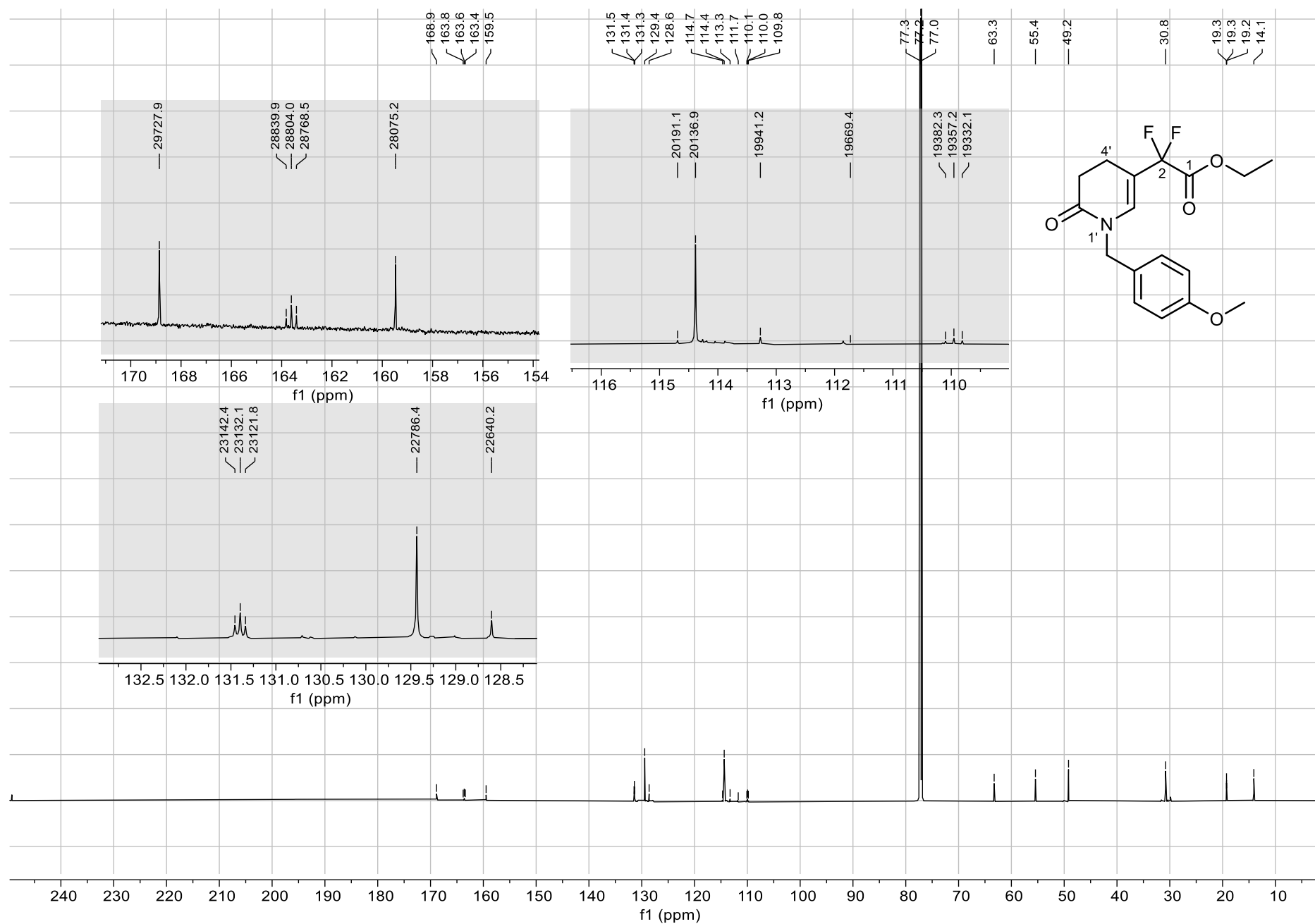
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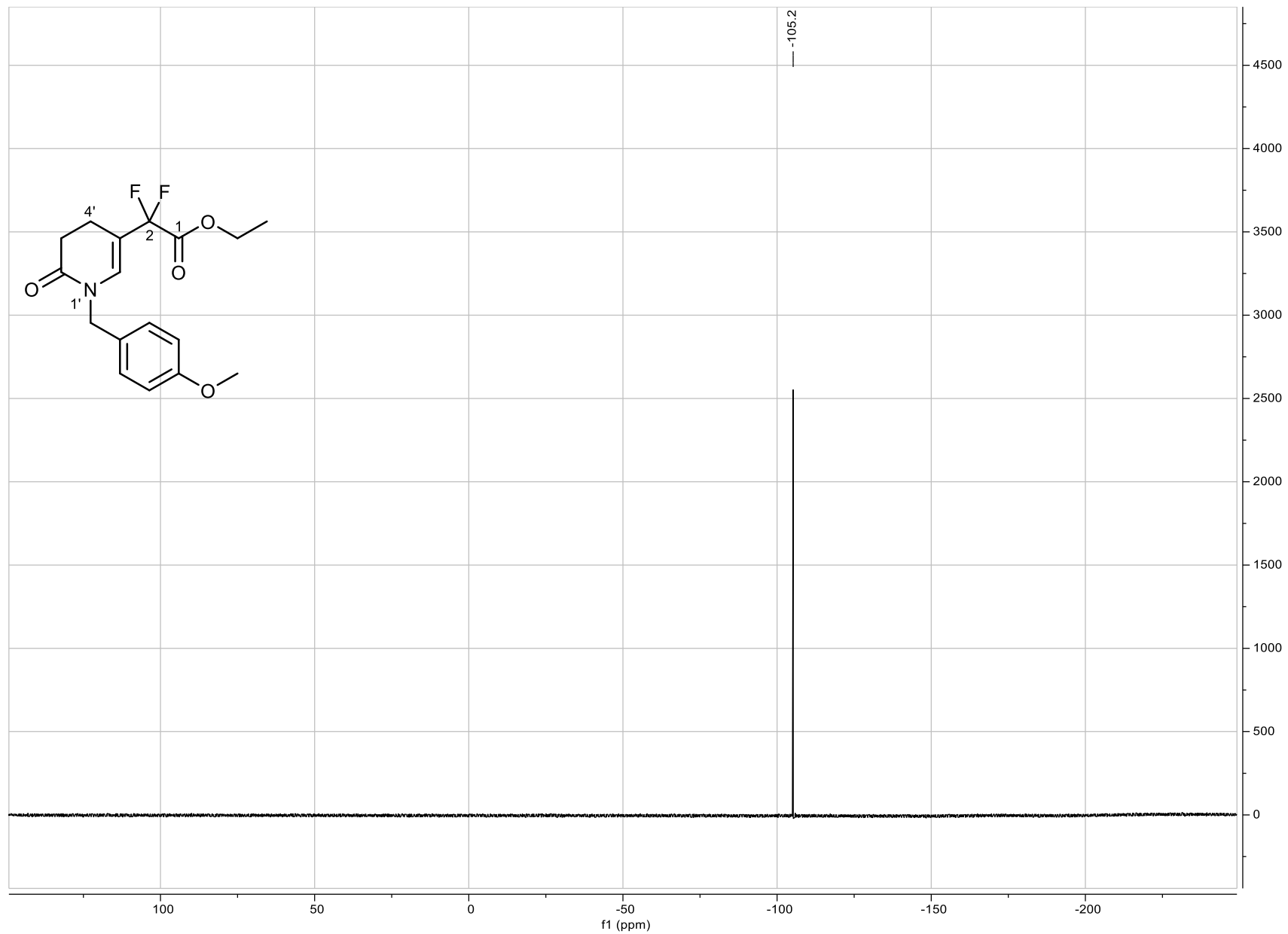
^bUniversité de Carthage, Faculté des Sciences de Bizerte, Laboratoire de Synthèse Hétérocyclique, 7021 Jarzouna, Bizerte, Tunisia
Correspondence: isabelle.gillaizeau@univ-orleans.fr; Tel.: +33 (0)2 38 49 45 83

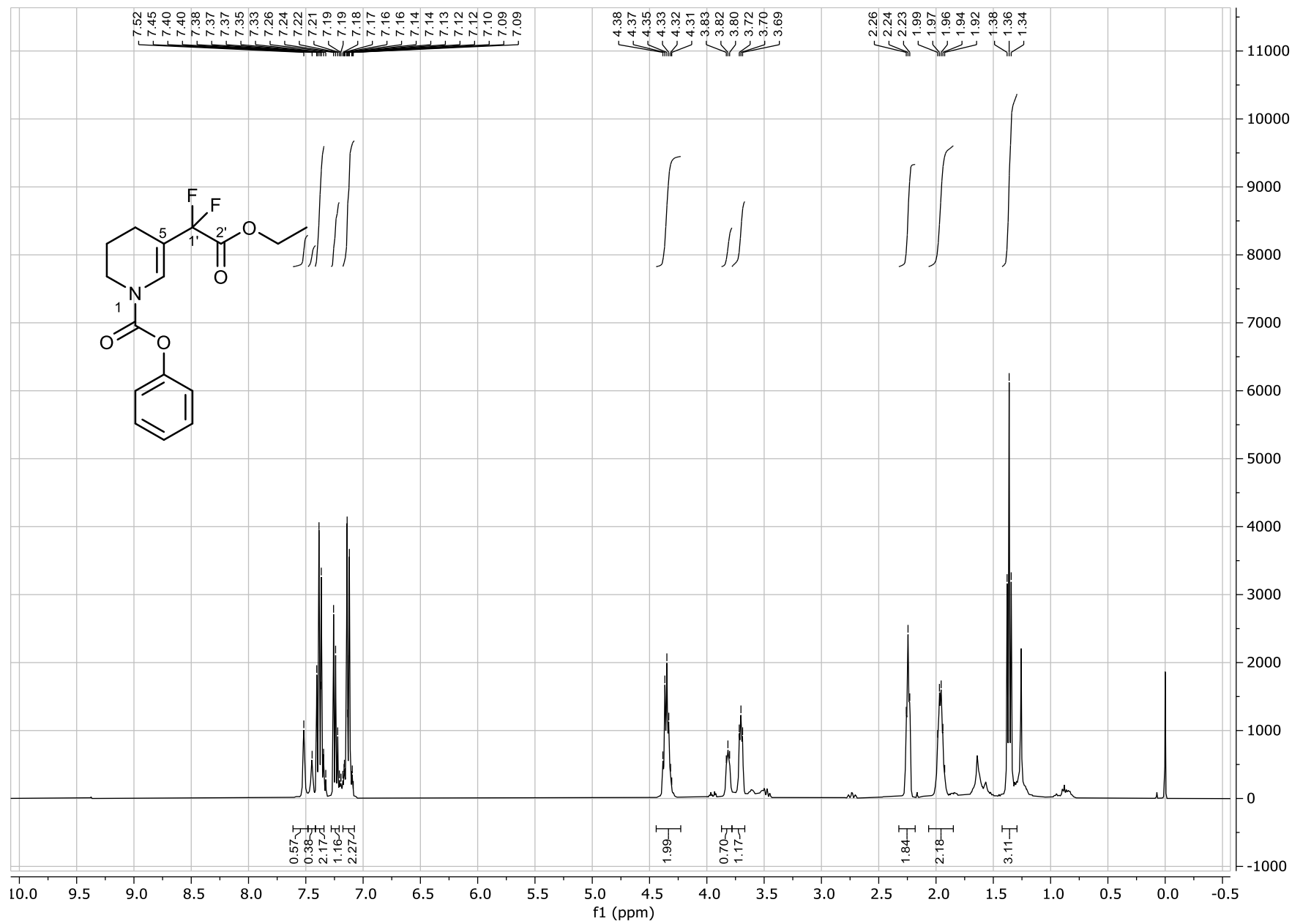
^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3a.

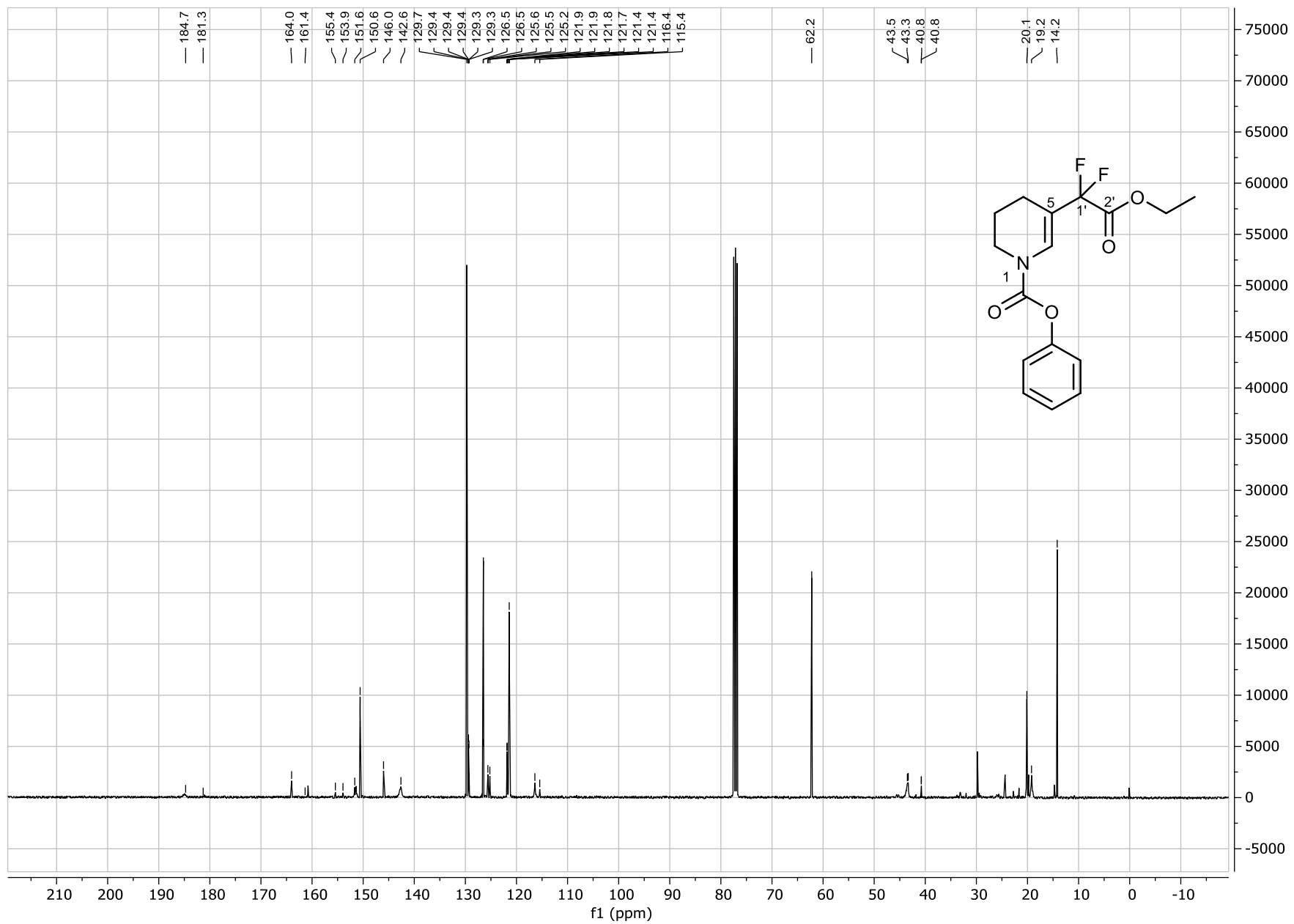
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3a.

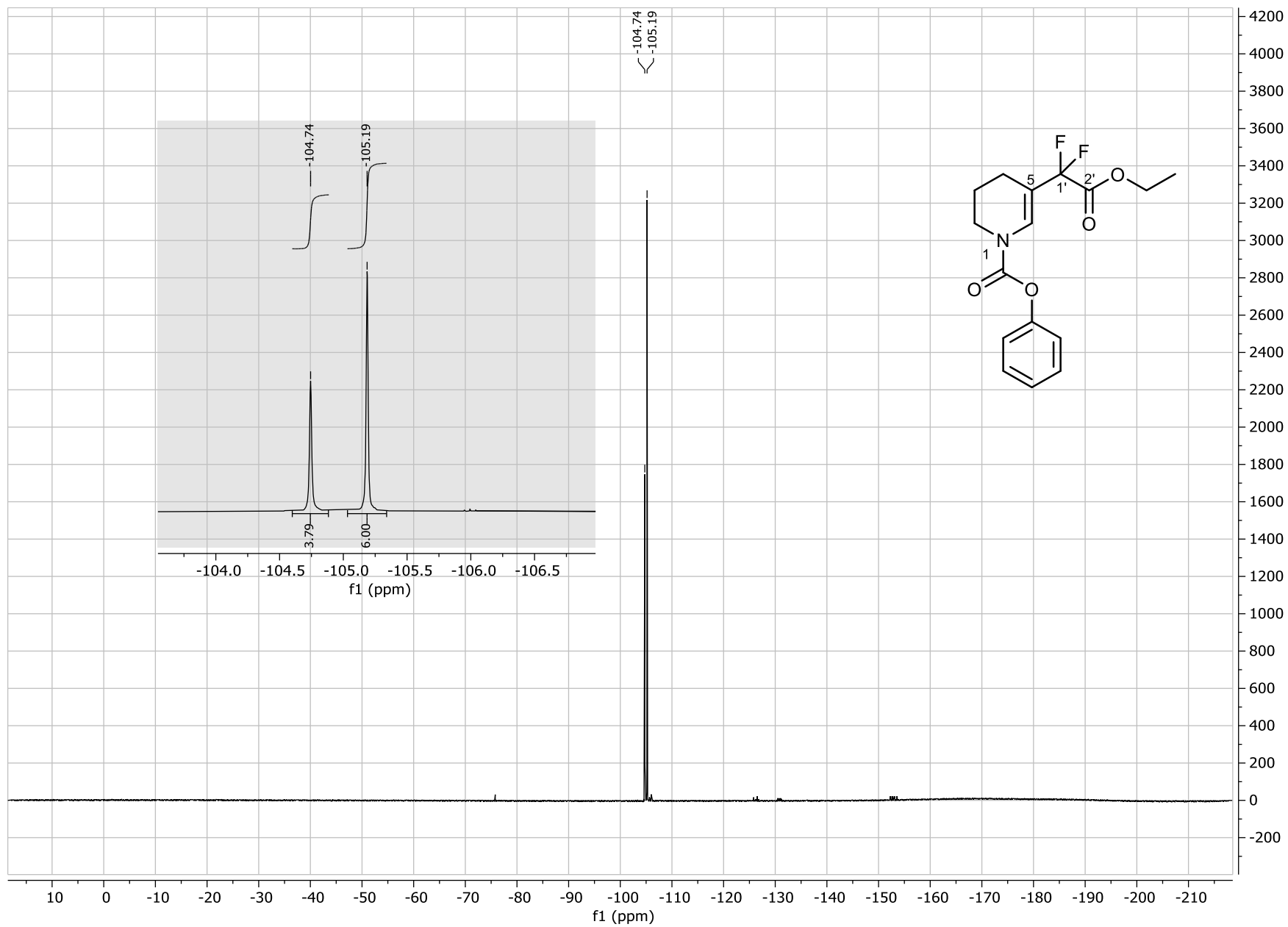
^1H NMR (700 MHz, CDCl_3) Spectrum of Compound 3b.

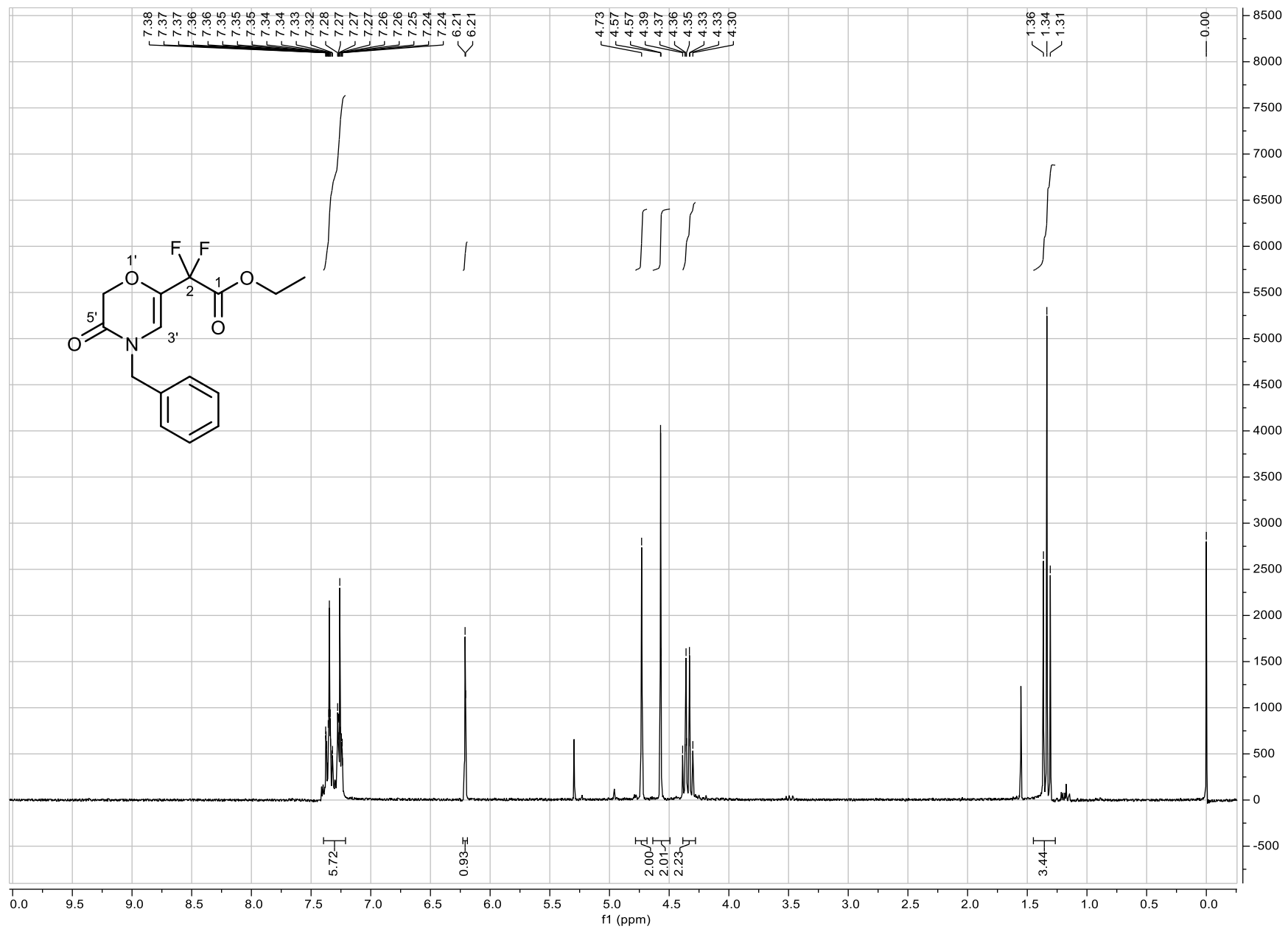
^{13}C NMR (176 MHz, CDCl_3) Spectrum of Compound 3b.

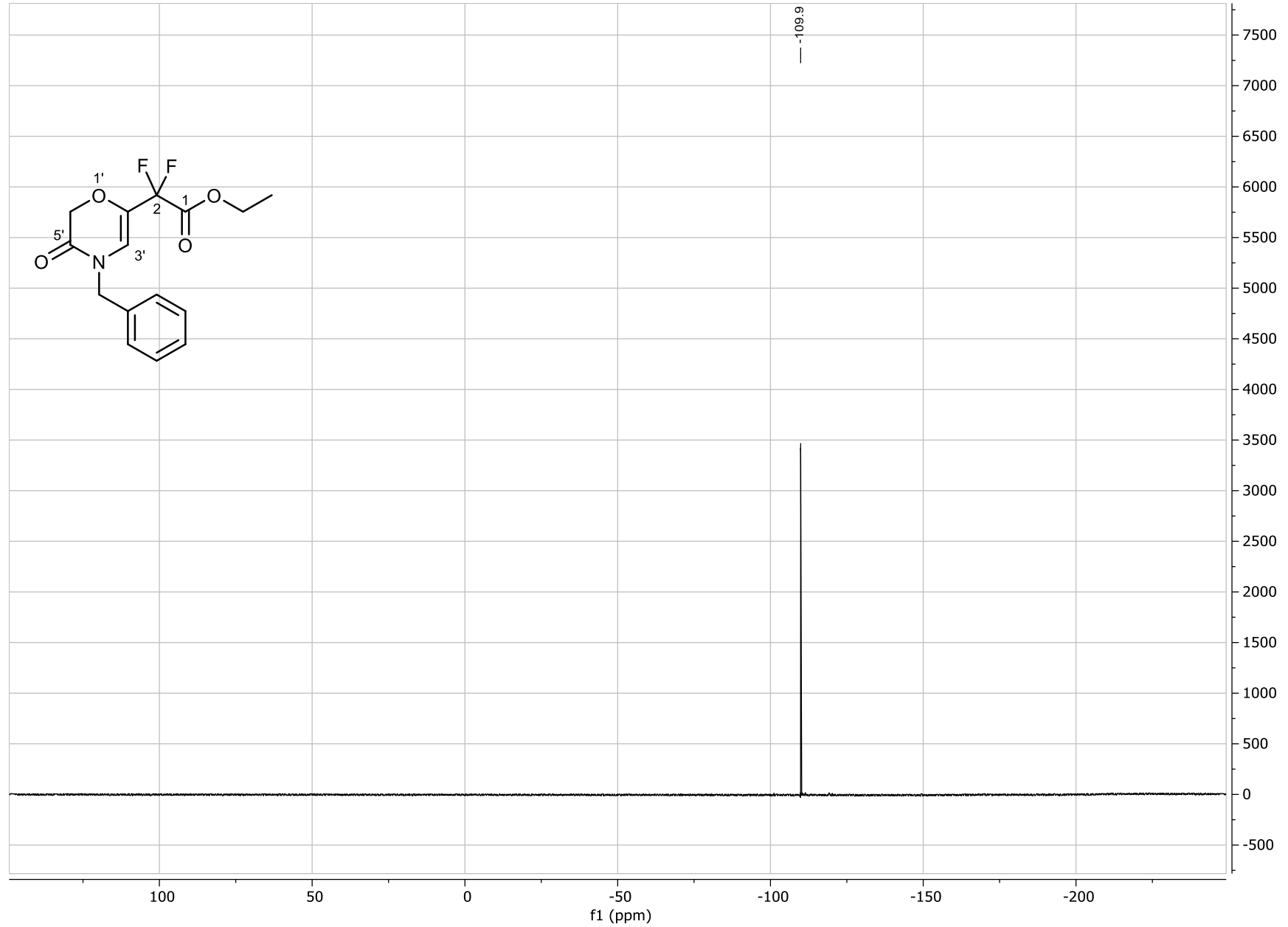
^{19}F NMR (235 MHz, CDCl_3) Spectrum of Compound 3b.

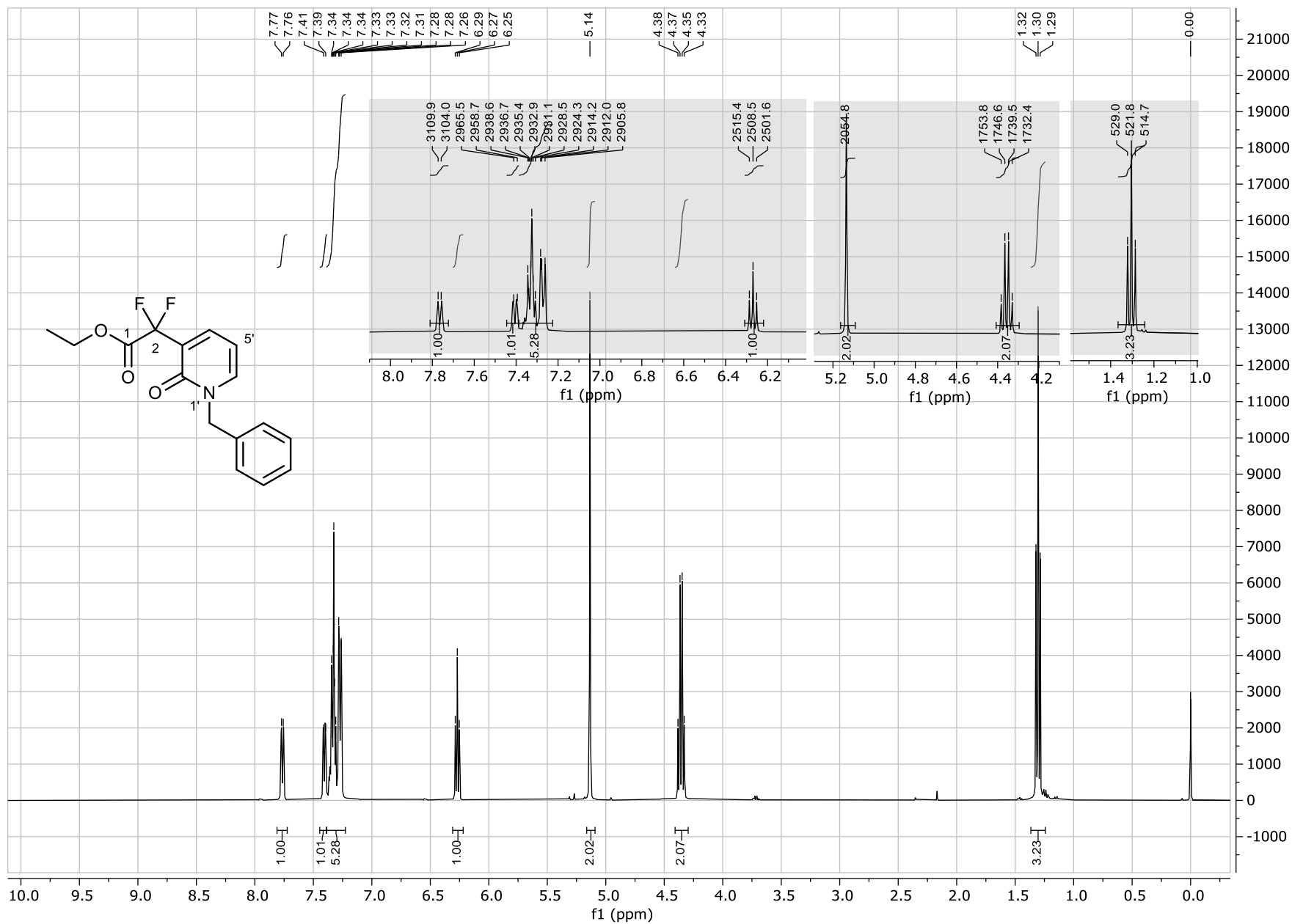
^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3c.

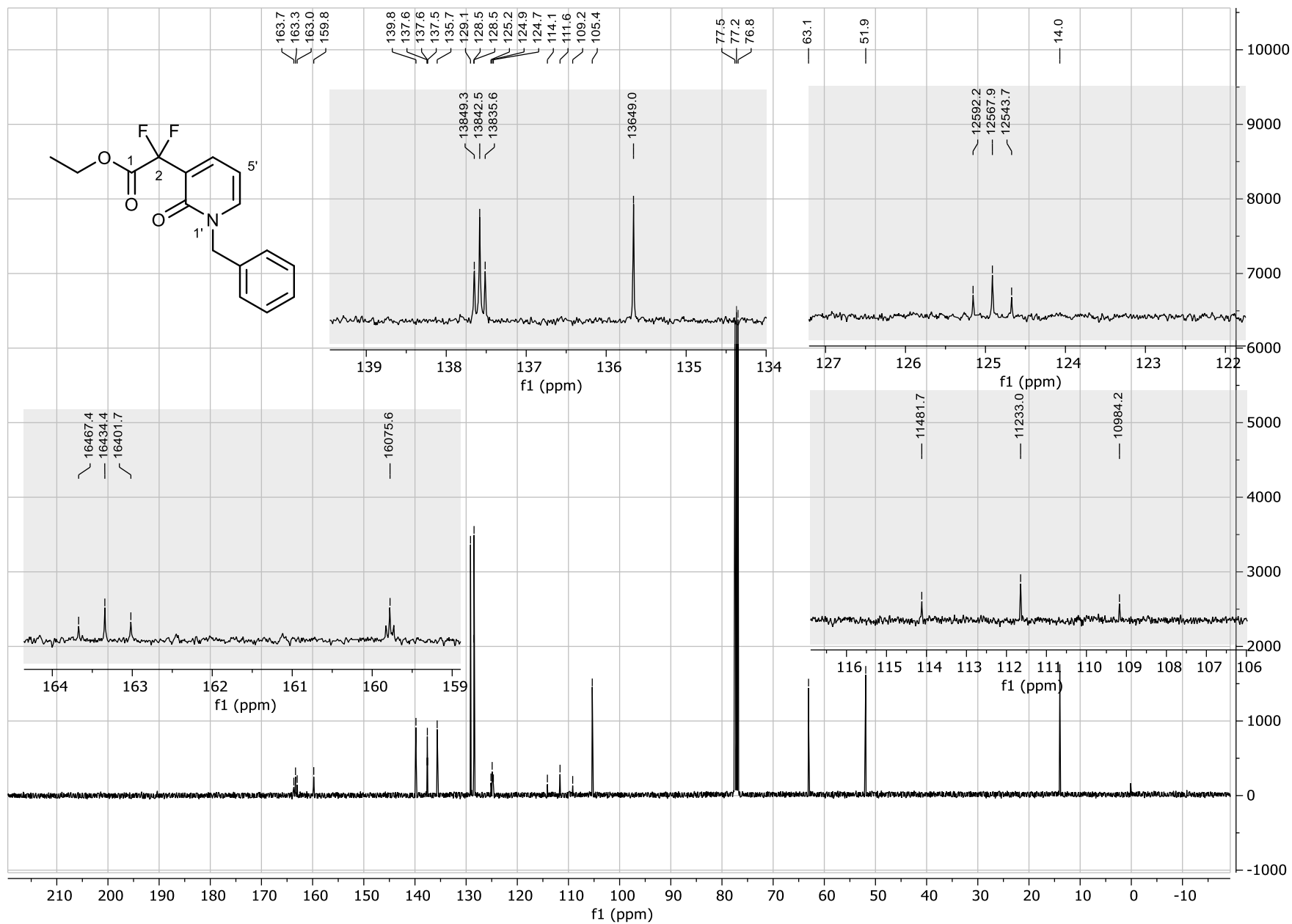
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3c.

^{19}F NMR (376 MHz, CDCl_3) Spectrum of Compound 3c.

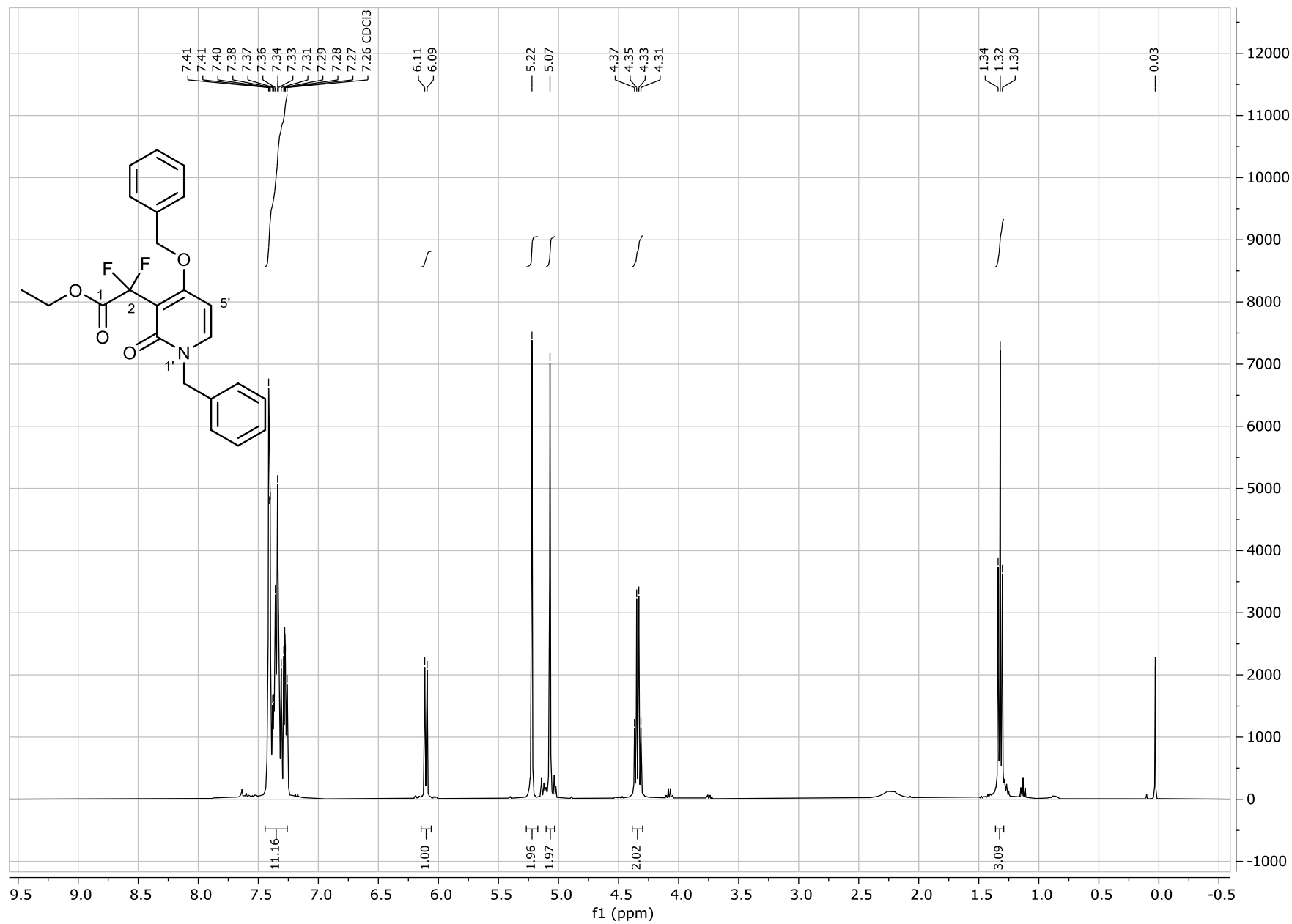
^1H NMR (250 MHz, CDCl_3/TMS) Spectrum of Compound 3d.

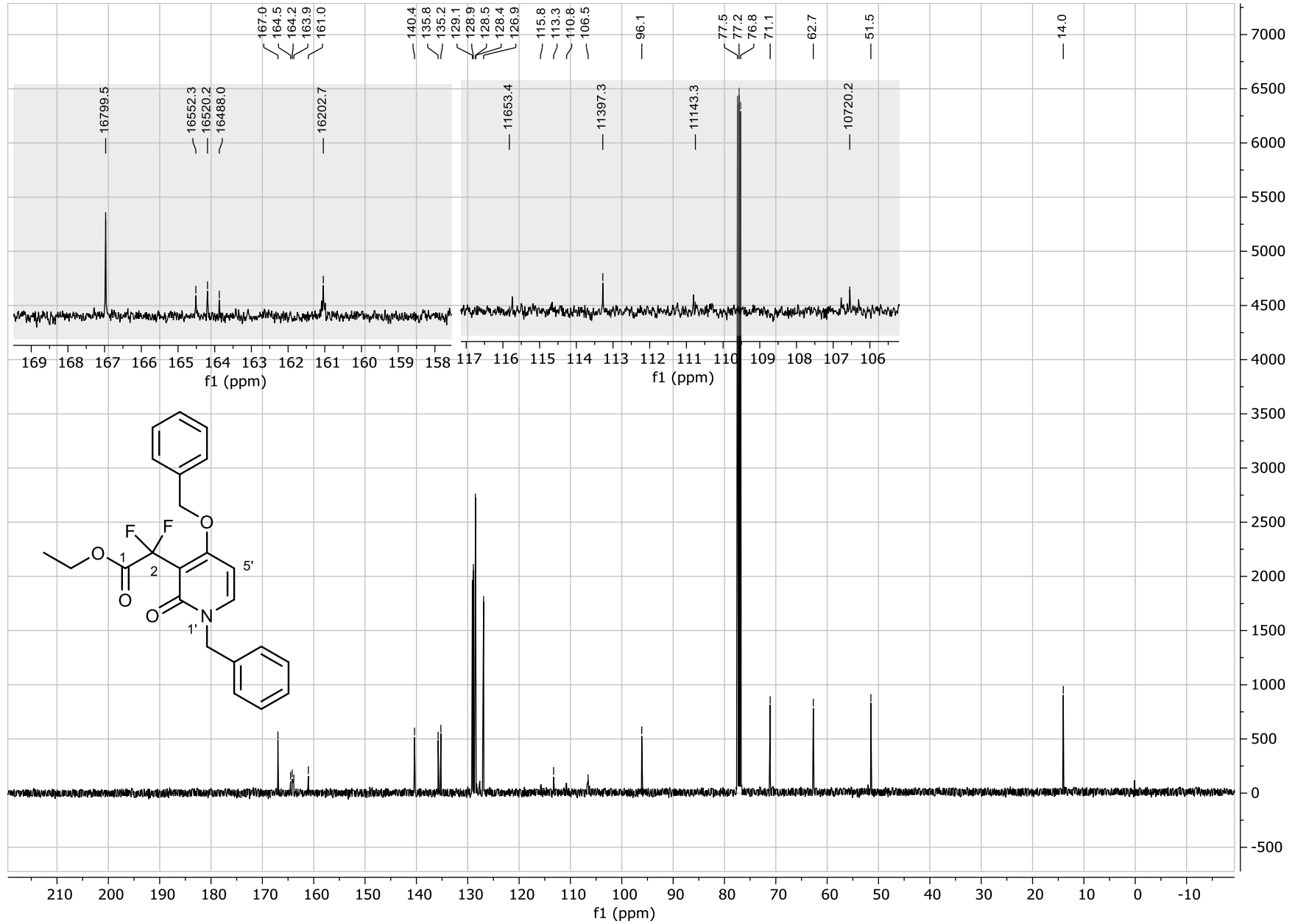
^{19}F NMR (235 MHz, CDCl_3) Analysis of Compound 3d.

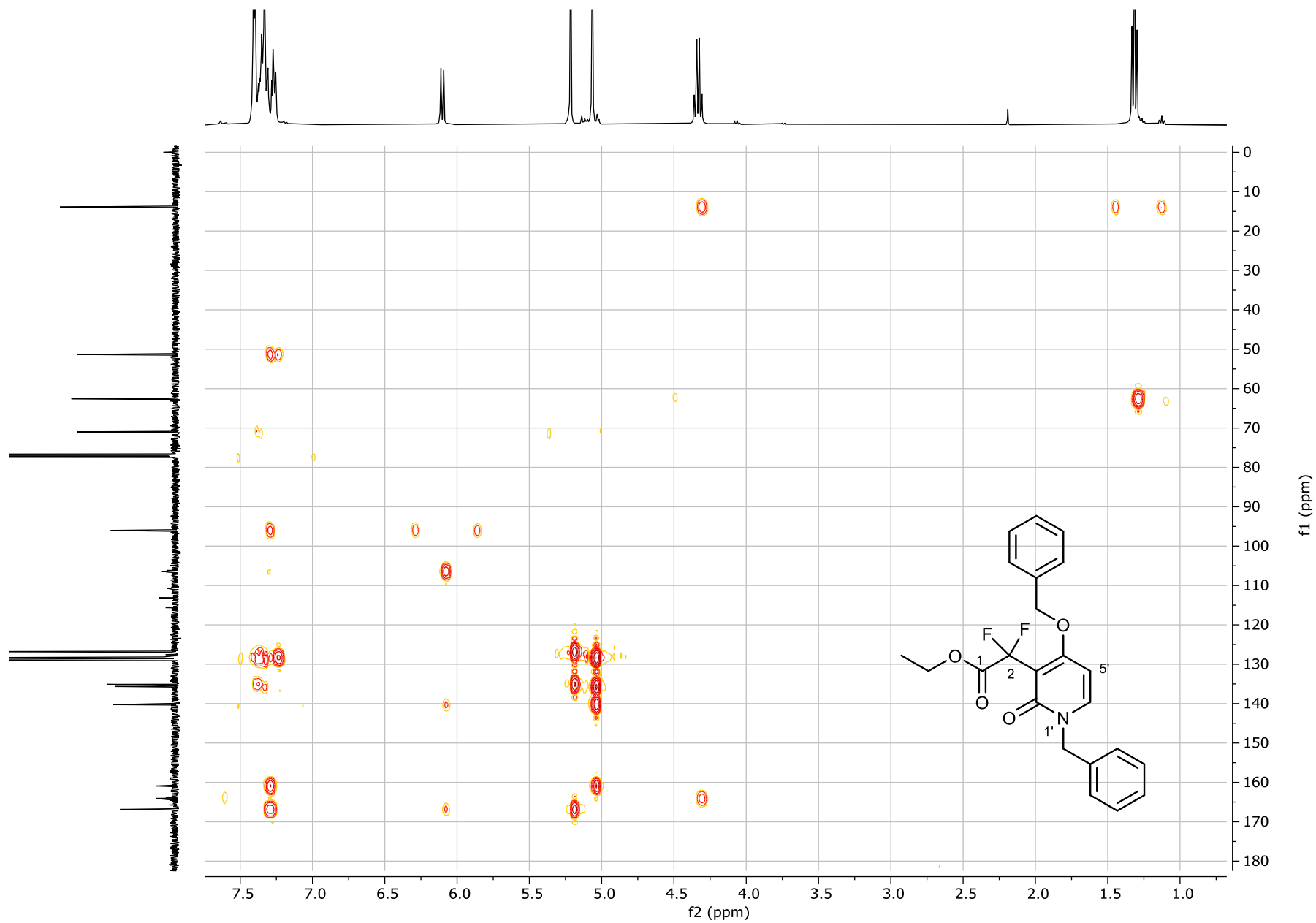
^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3e.

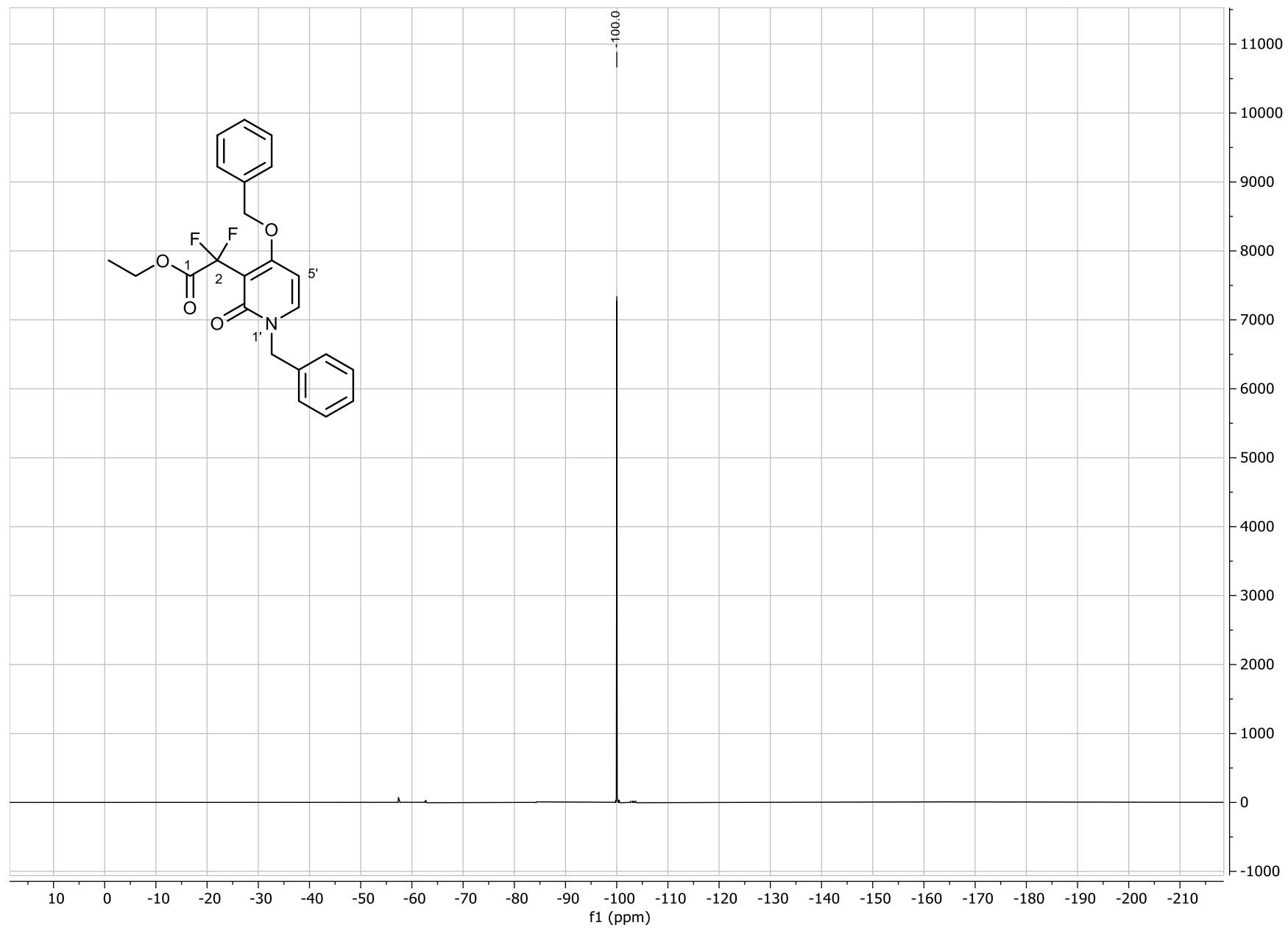
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3e.

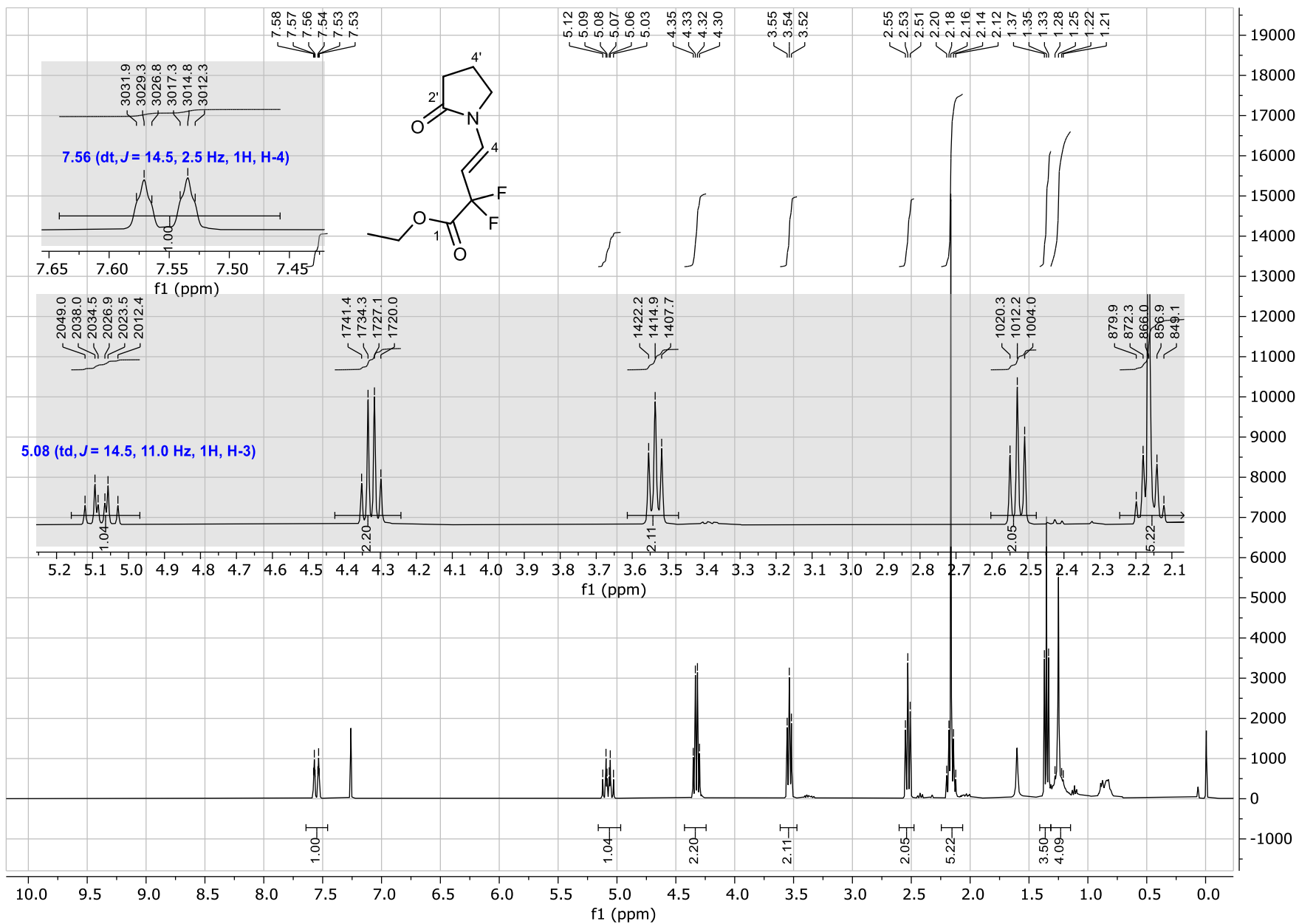
^{19}F NMR (376 MHz, CDCl_3) Spectrum of Compound 3e.

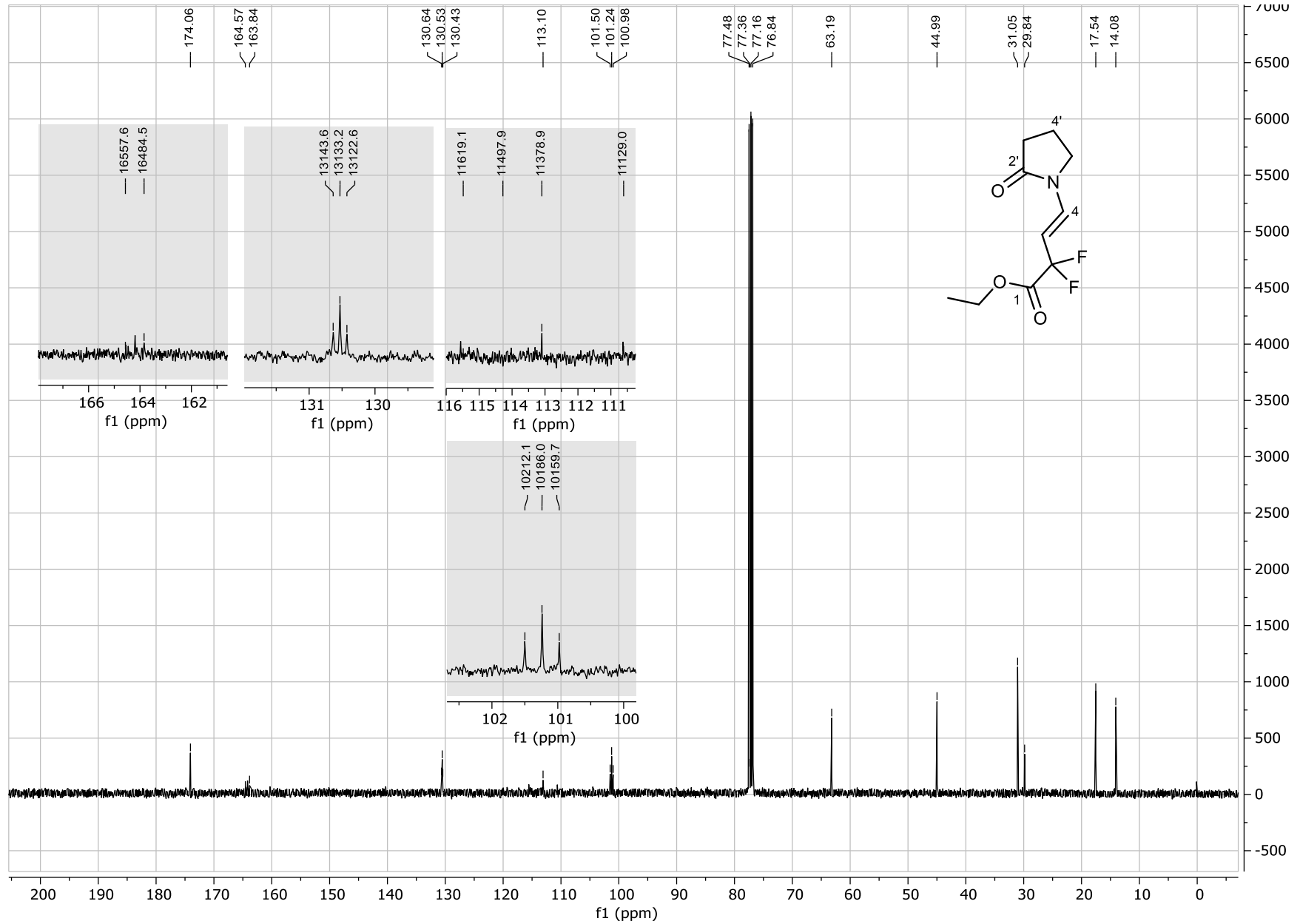
^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3f.

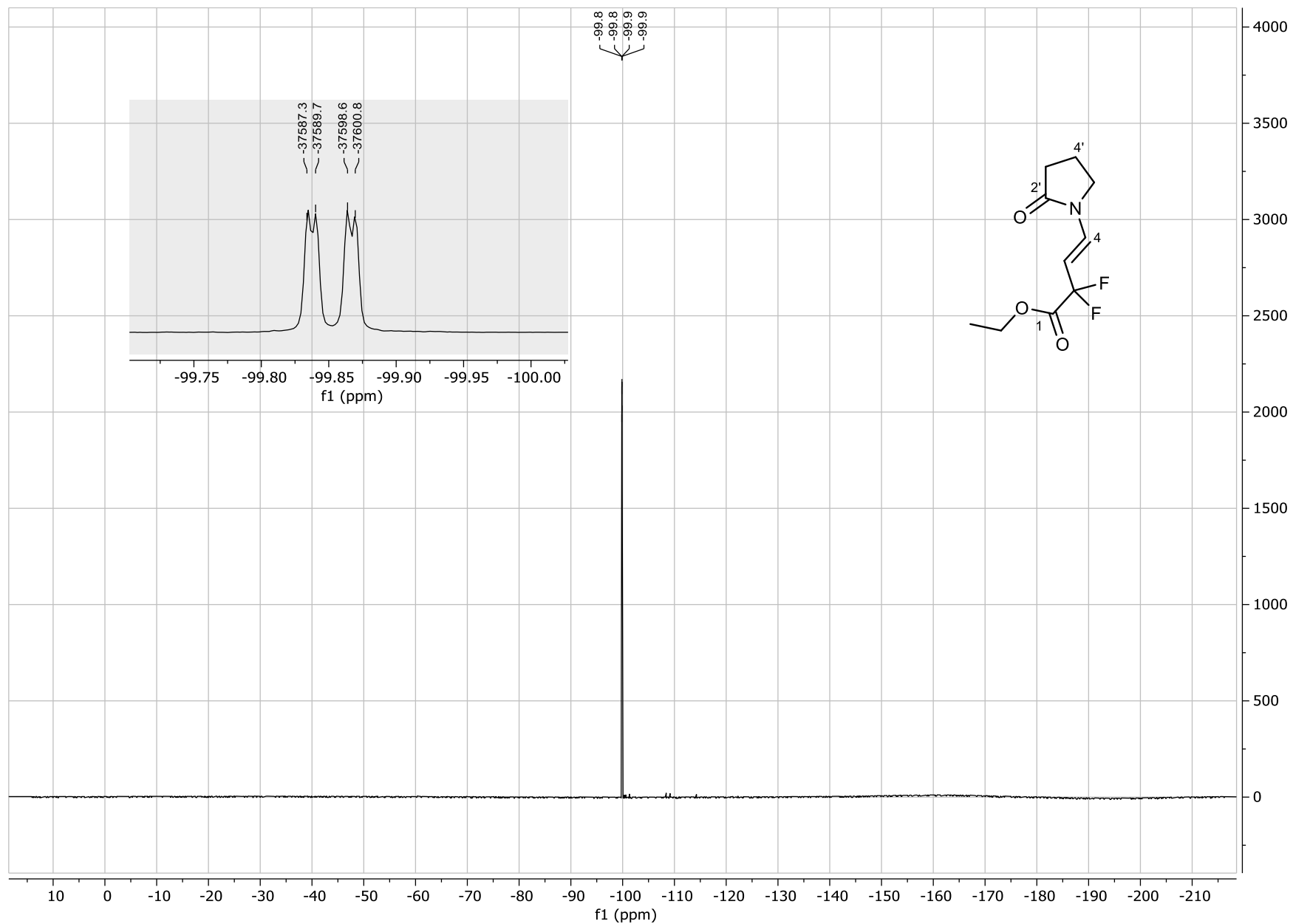
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3f.

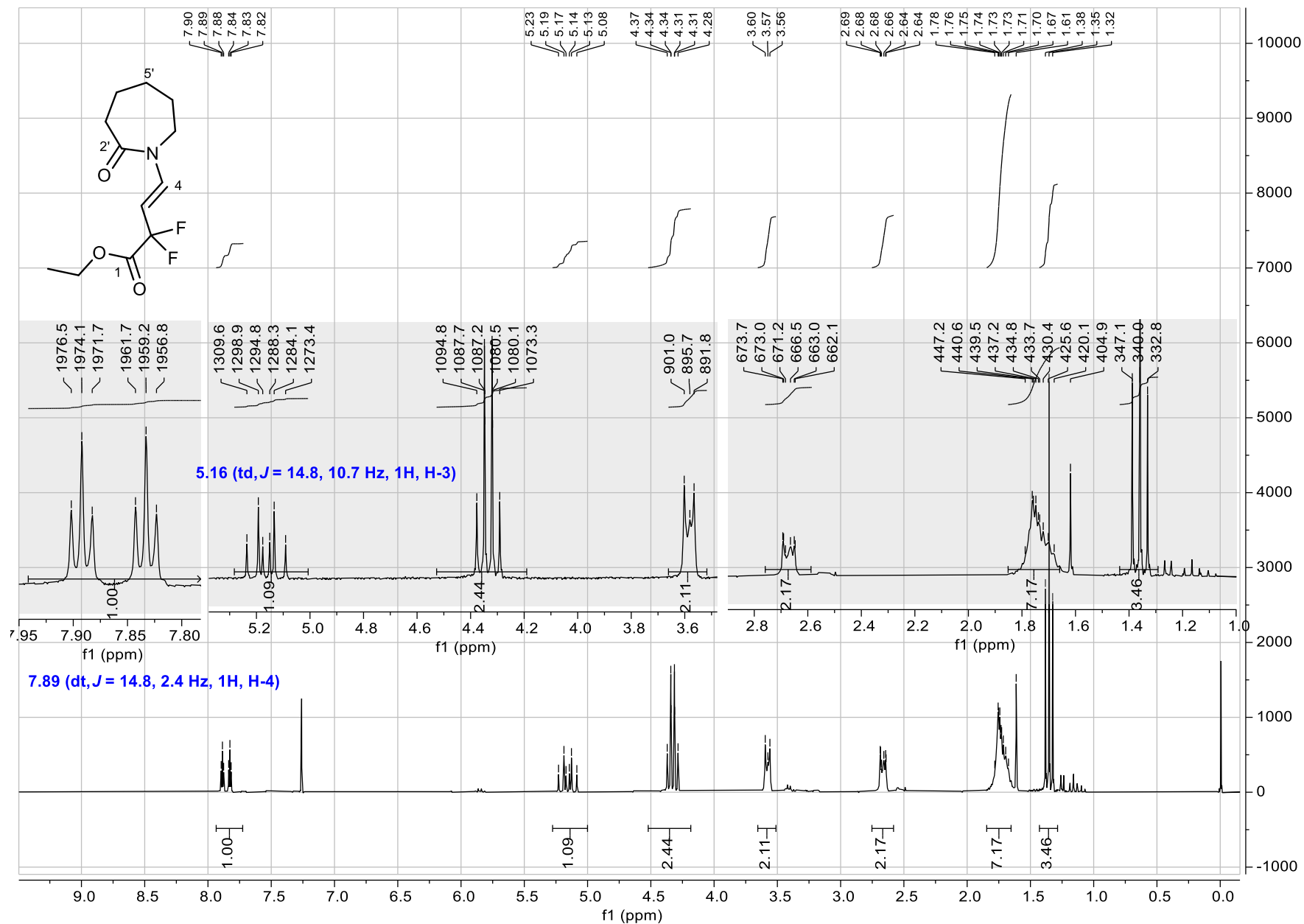
HMBC NMR (400,101 MHz, CDCl₃) Spectrum of Compound 3f.

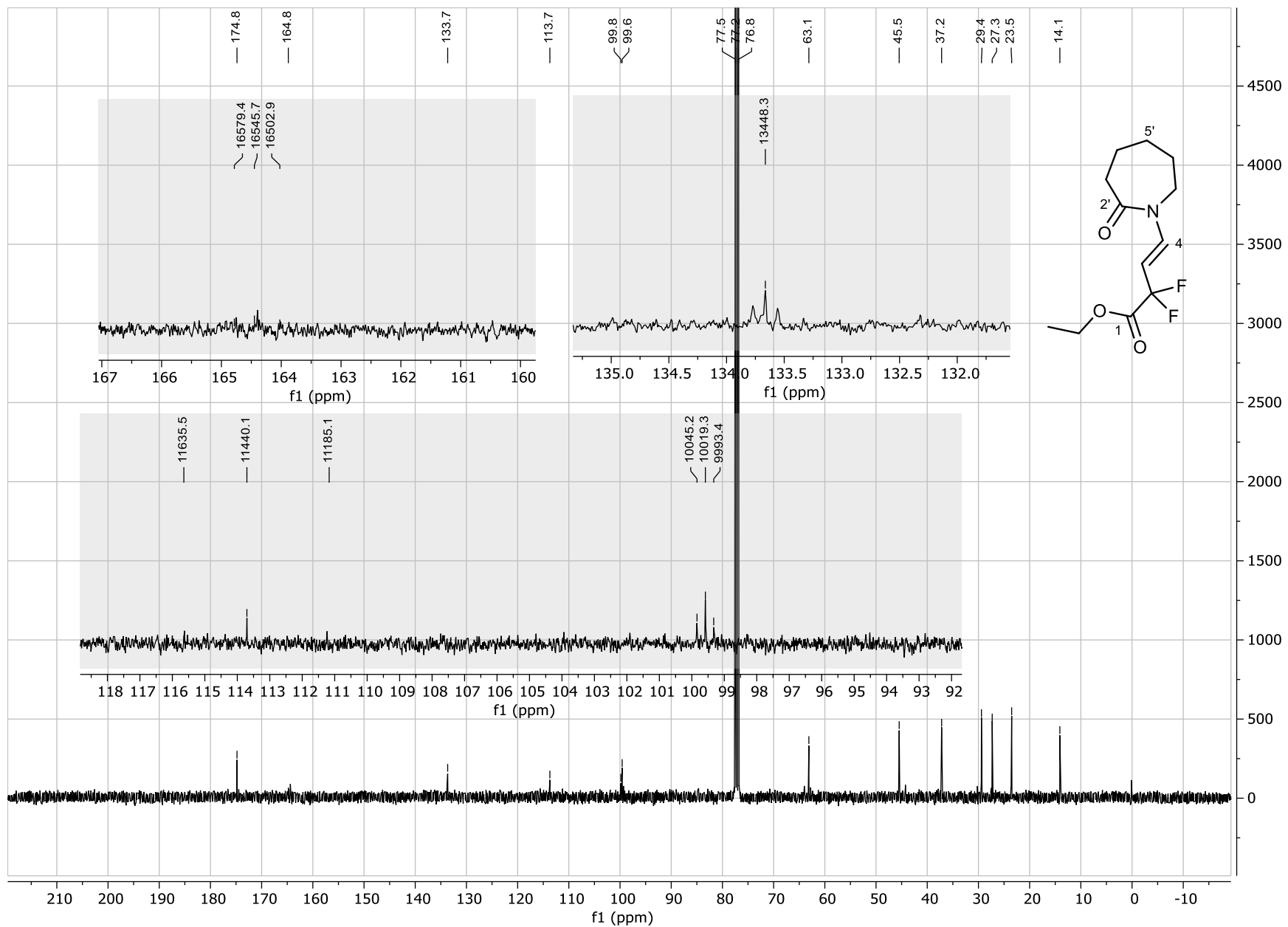
^{19}F NMR (376 MHz, CDCl_3) Spectrum of Compound 3f.

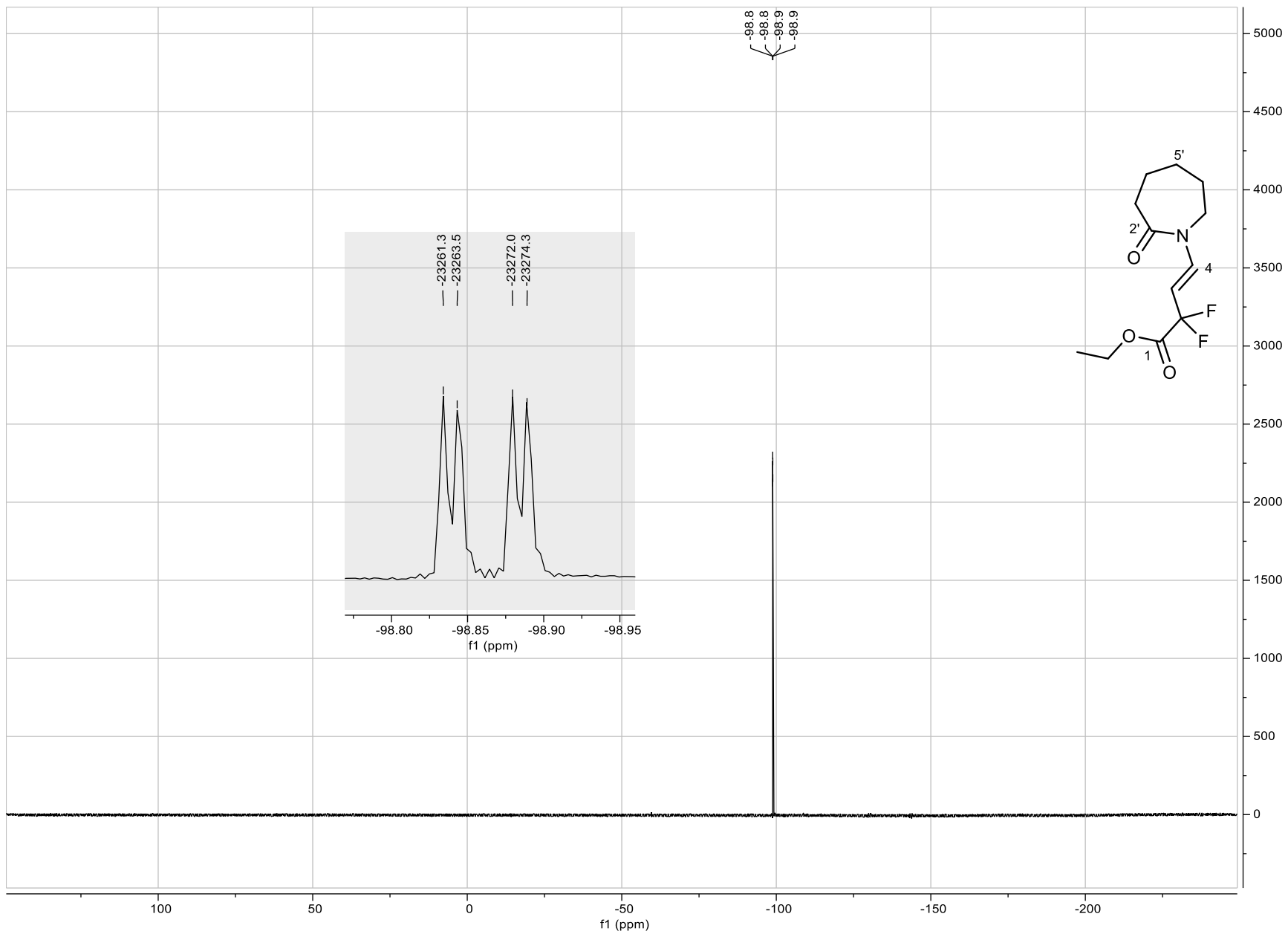
^1H NMR (400 MHz, CDCl_3) Spectrum of Compound 3g.

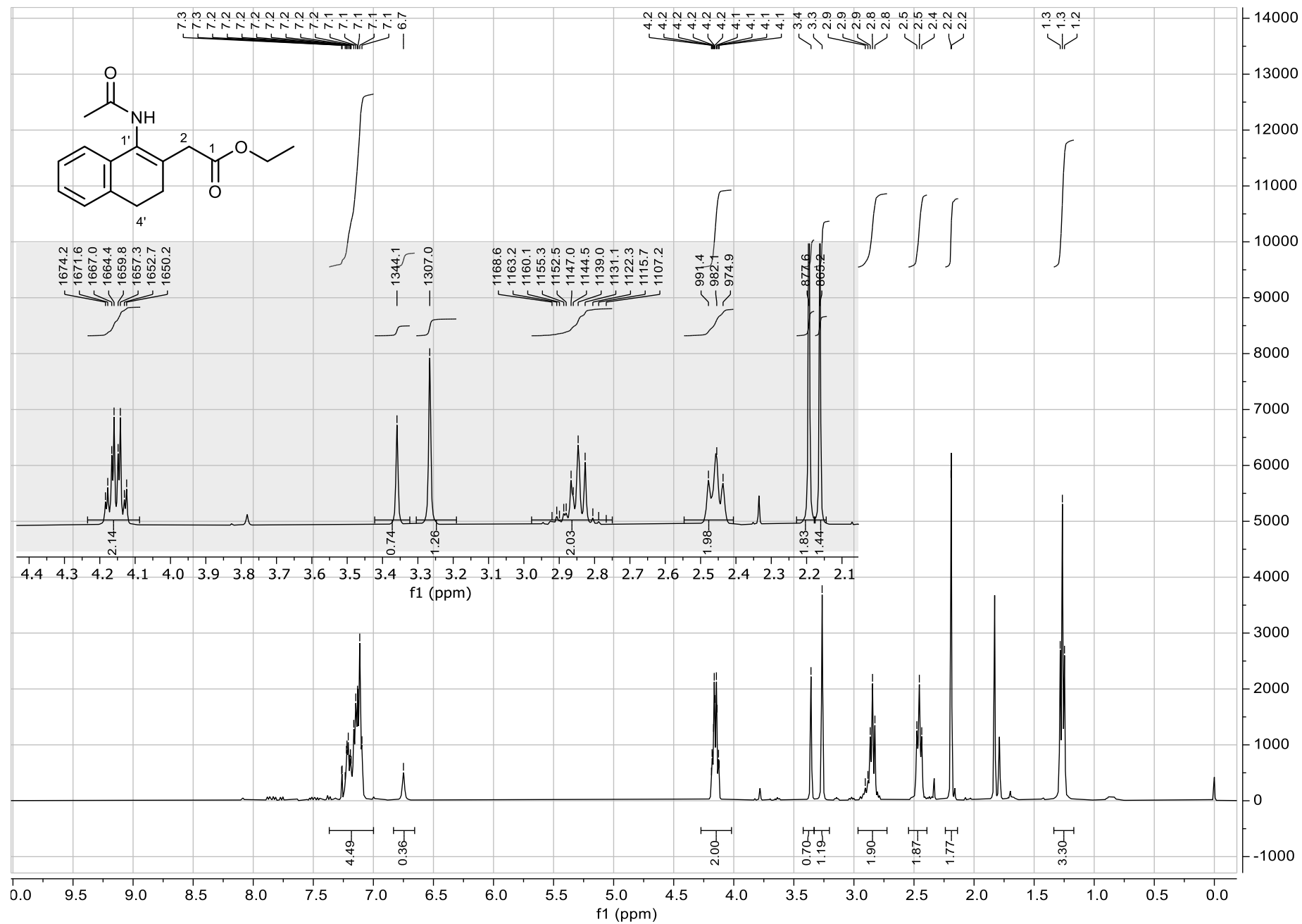
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3g.

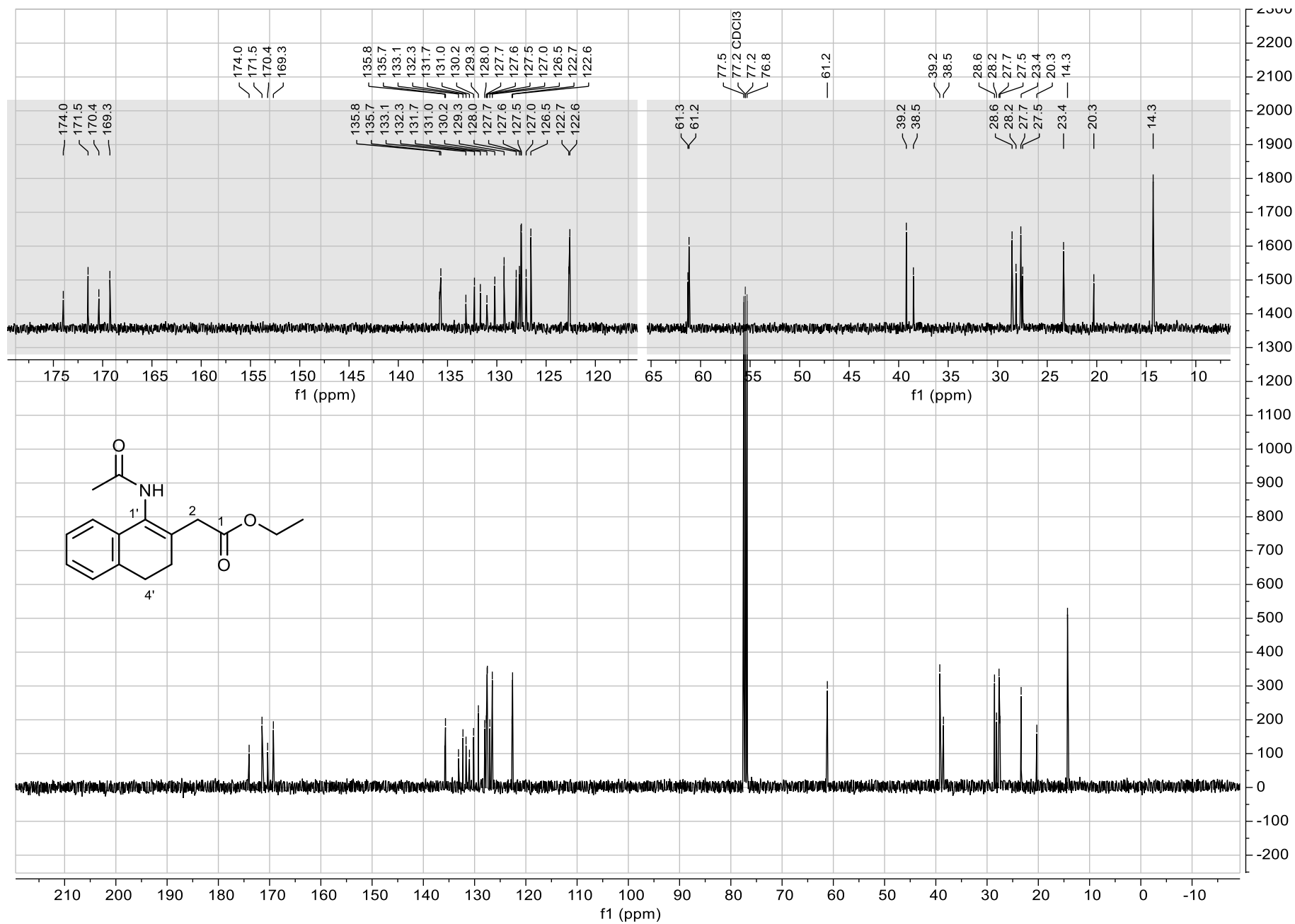
^{19}F NMR (376 MHz, CDCl_3) Spectrum of Compound 3g.

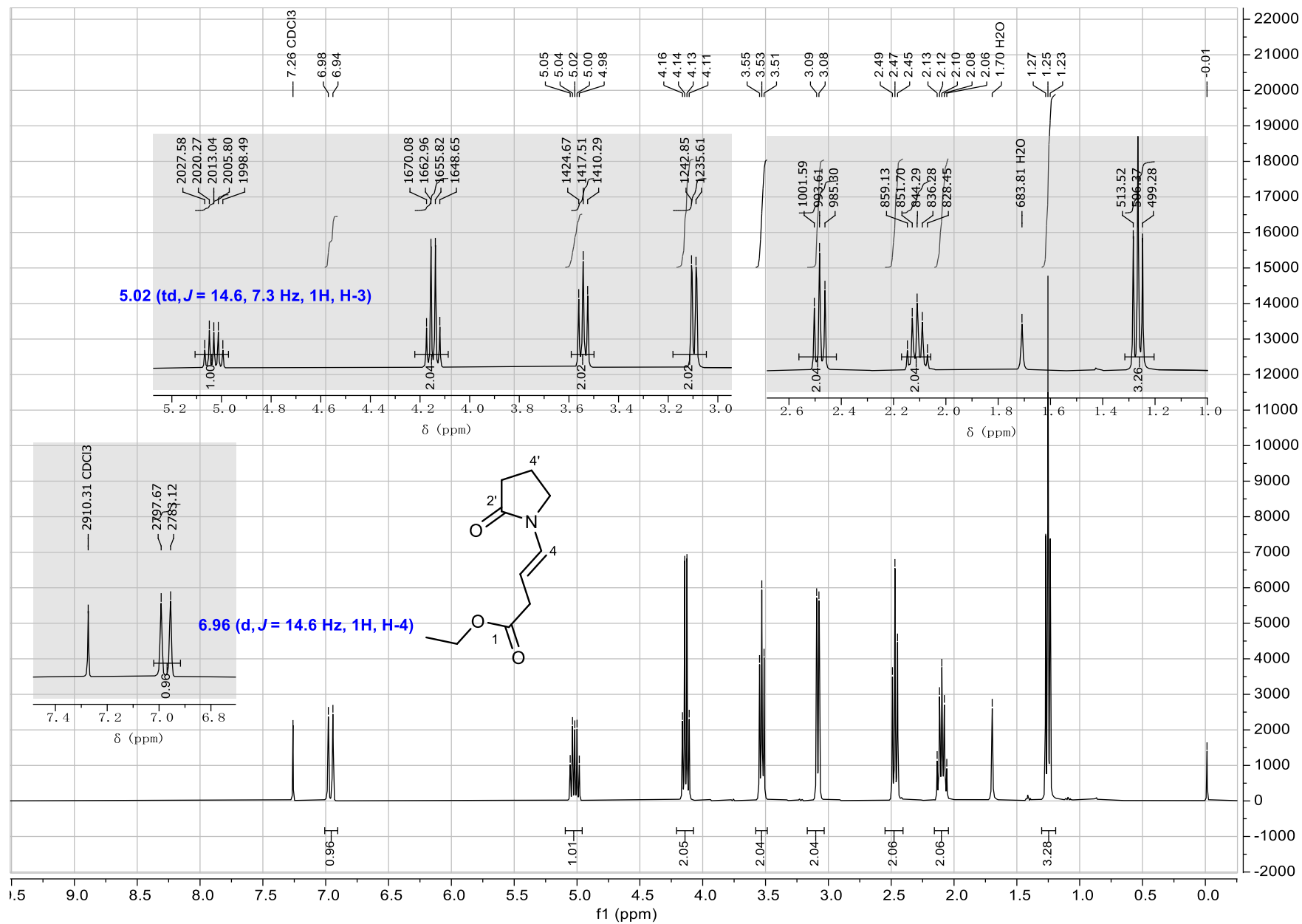
¹H NMR (250 MHz/TMS, CDCl₃) Spectrum of Compound 3h.

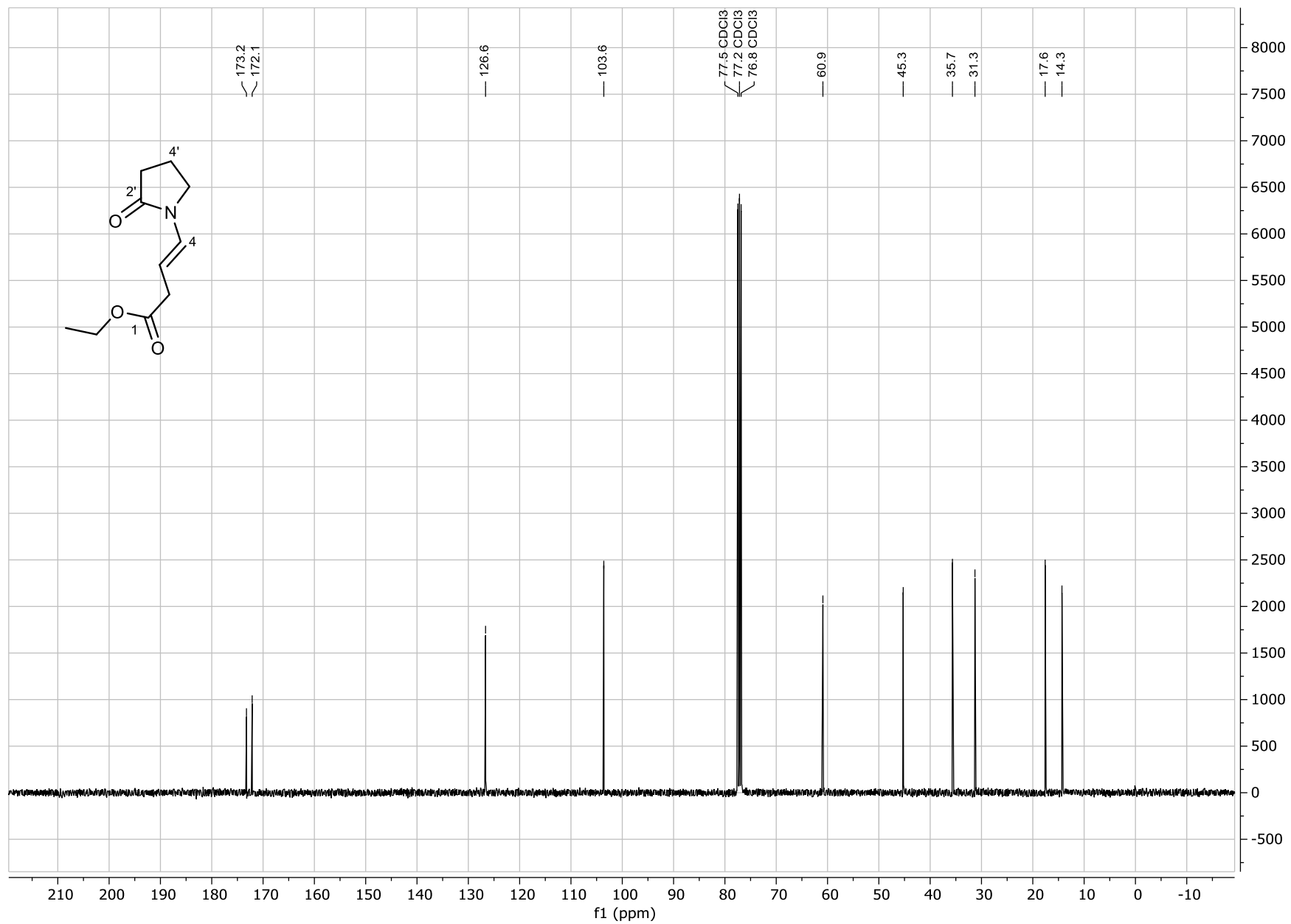
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3h.

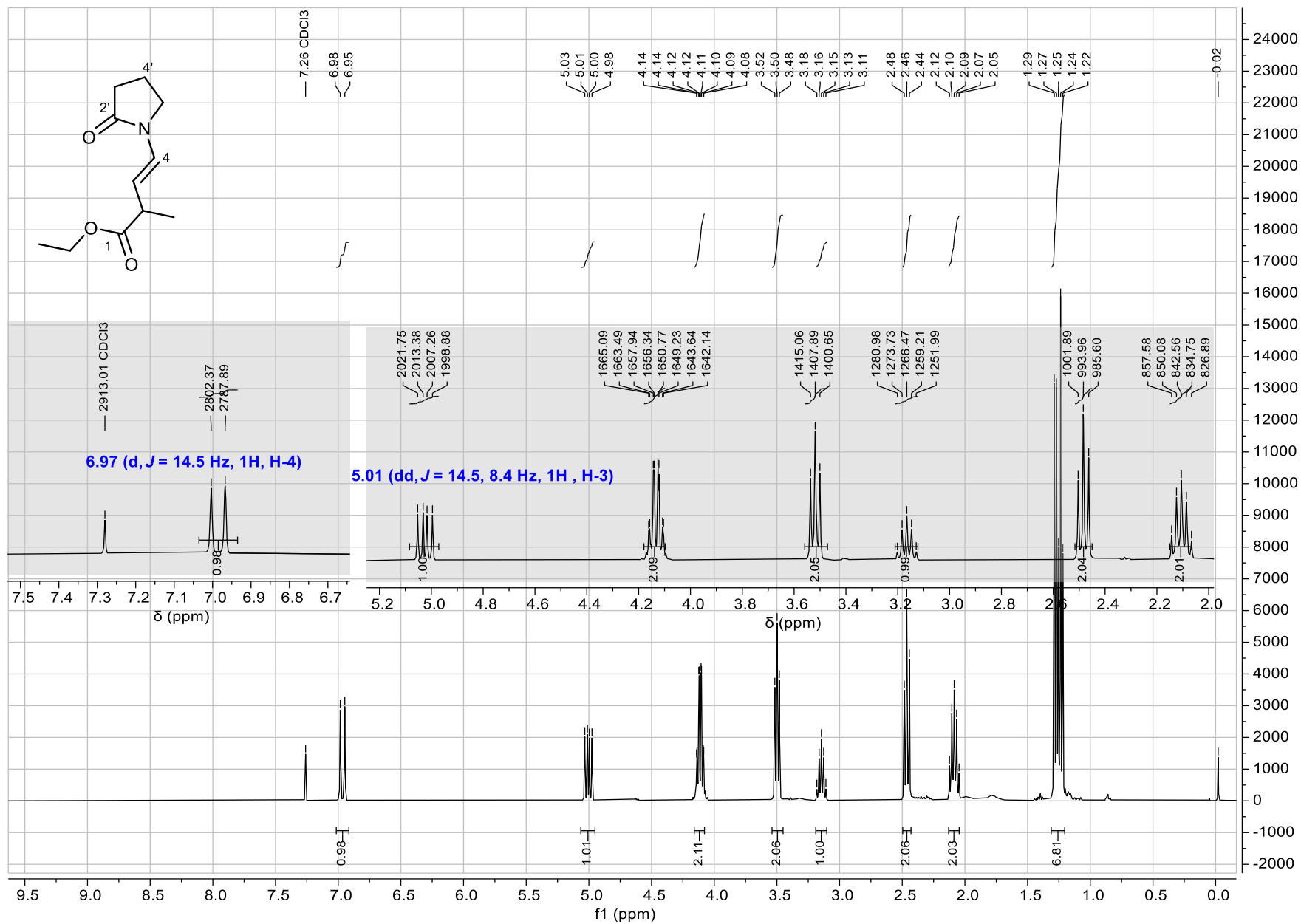
^{19}F NMR (235 MHz, CDCl_3) Analysis of Compound 3h.

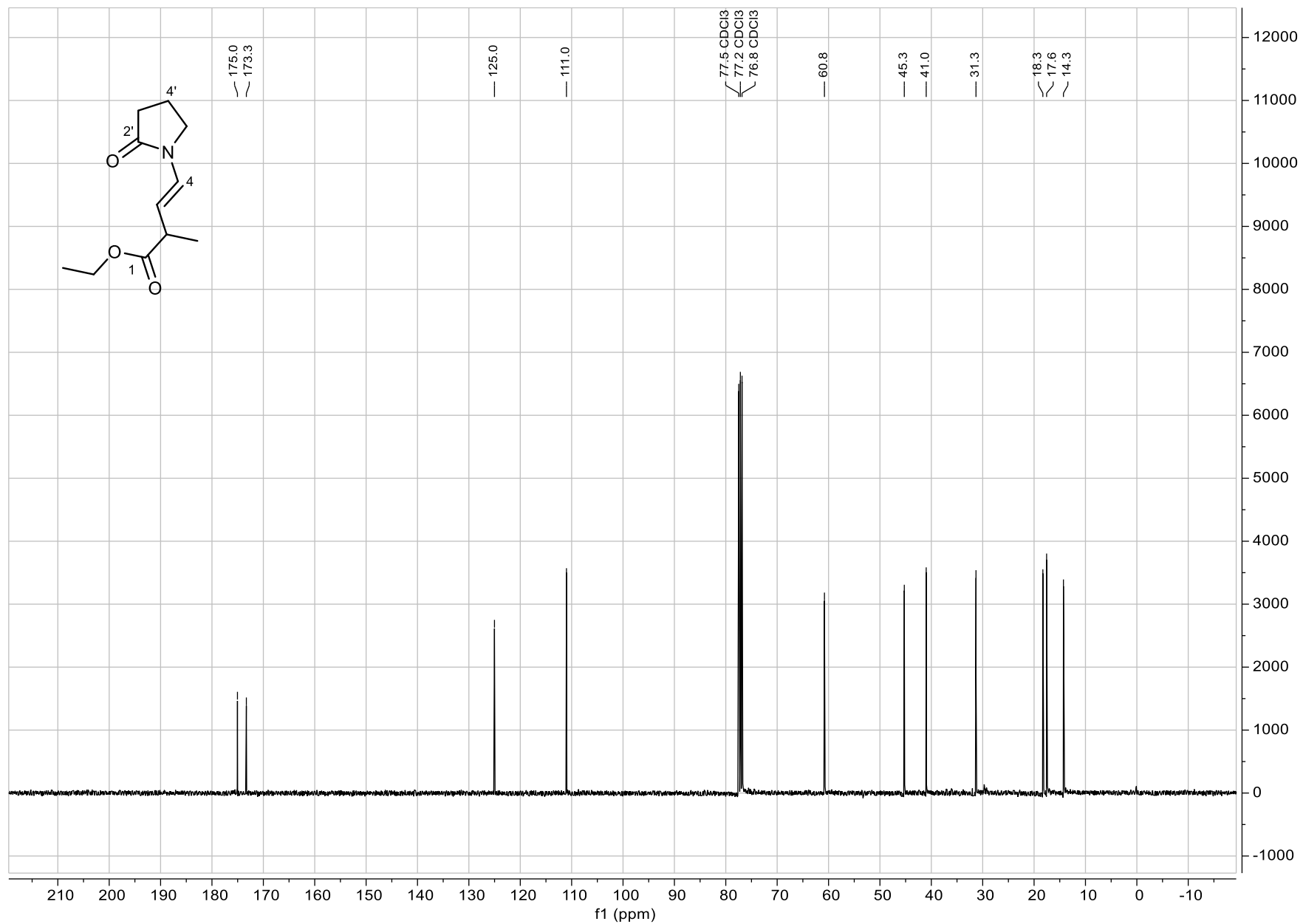
¹H NMR (400 MHz, CDCl₃/TMS) Spectrum of Compound 3i.

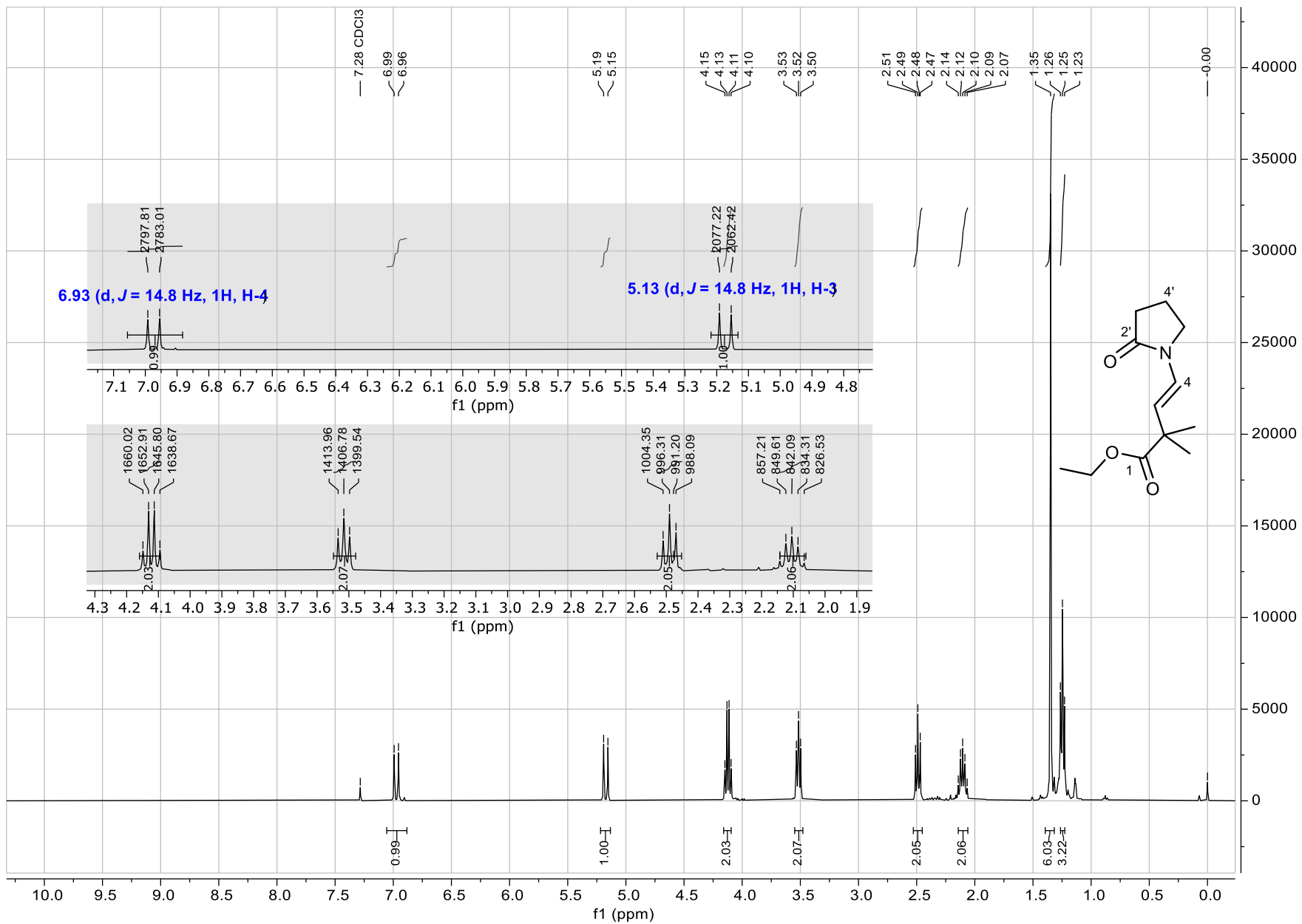
^{13}C NMR (101 MHz, CDCl_3) Analysis of Compound 3i.

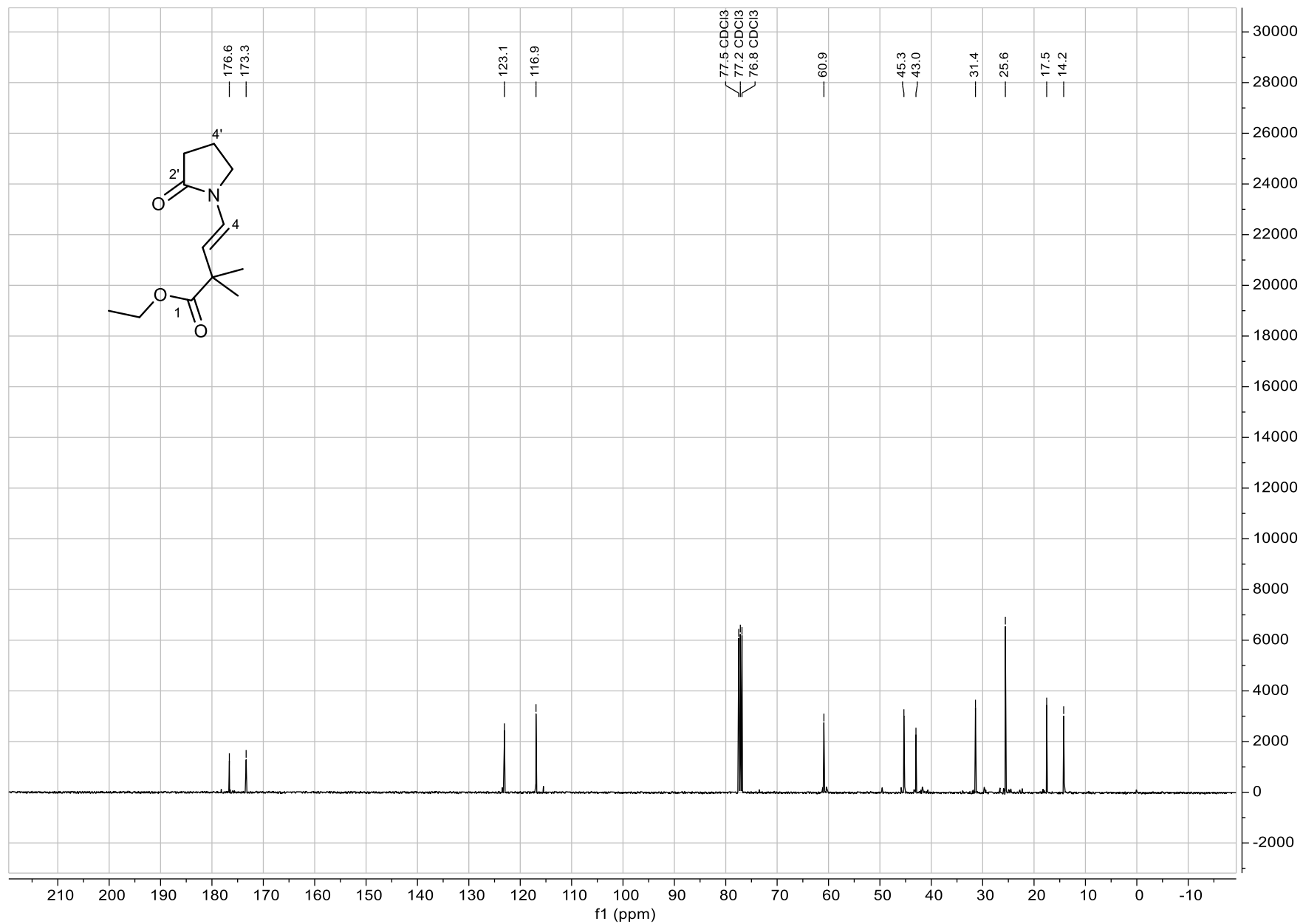
^1H NMR (400 MHz, CDCl_3) Spectrum of Compound 3j.

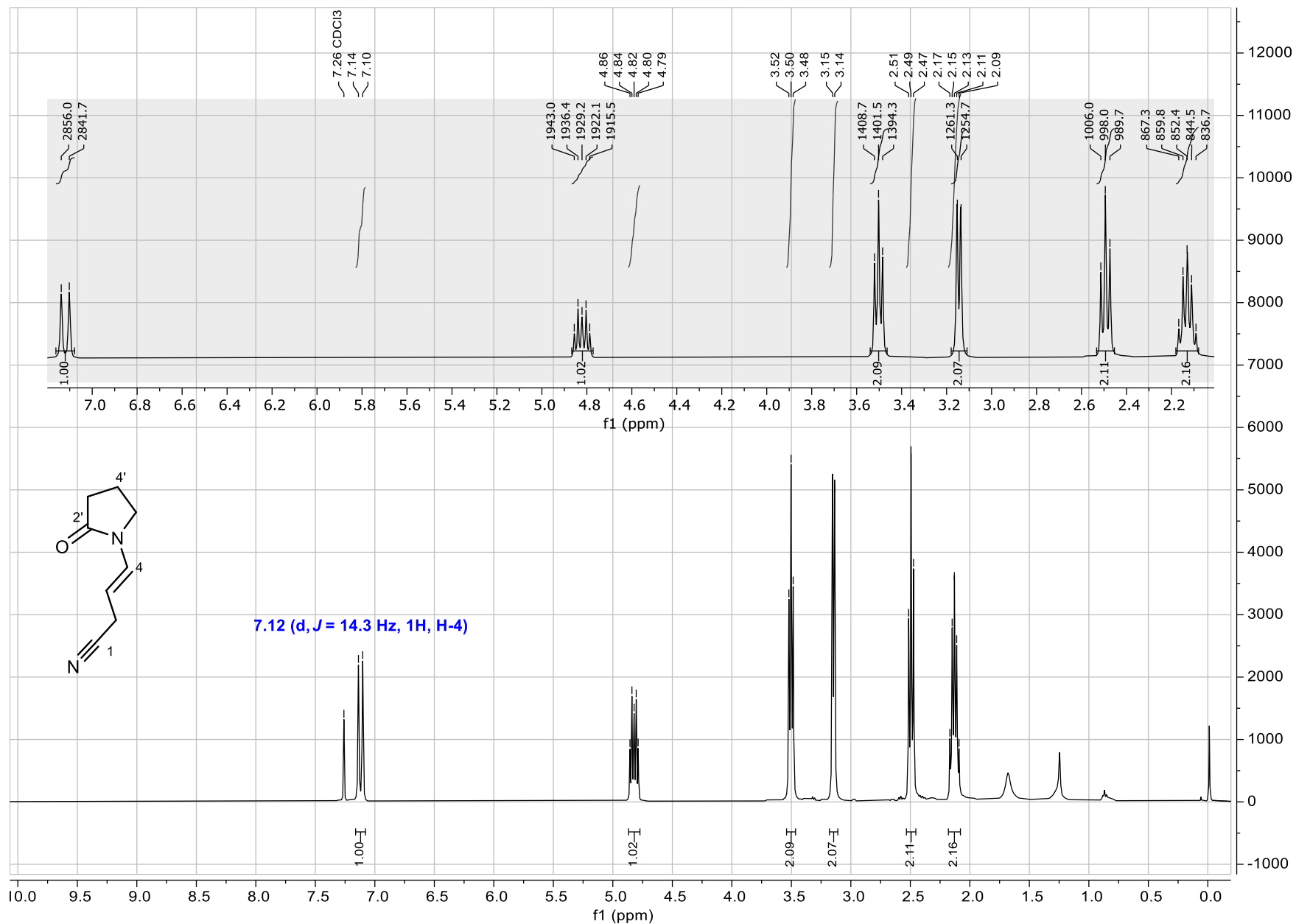
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3j.

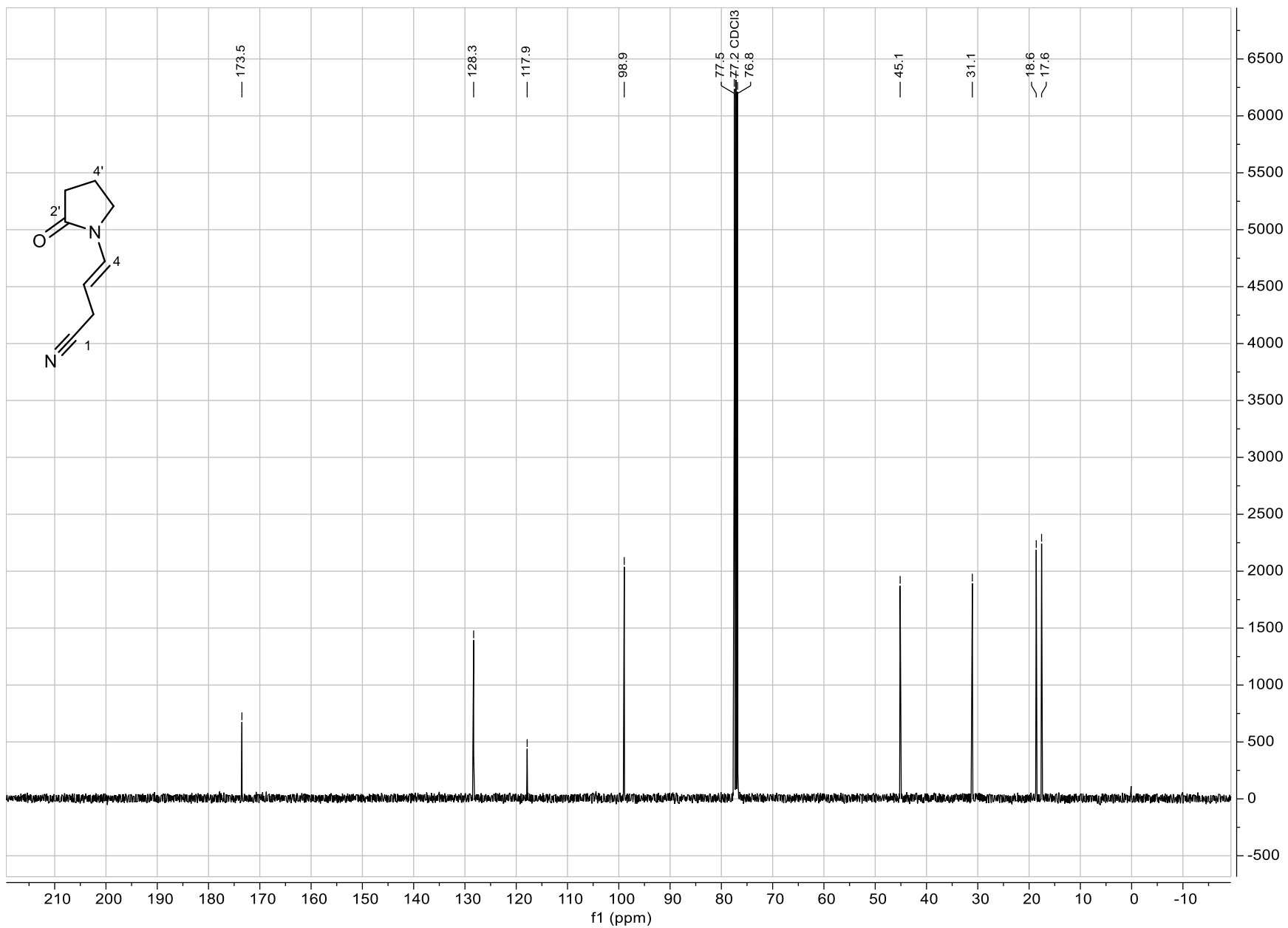
^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3k.

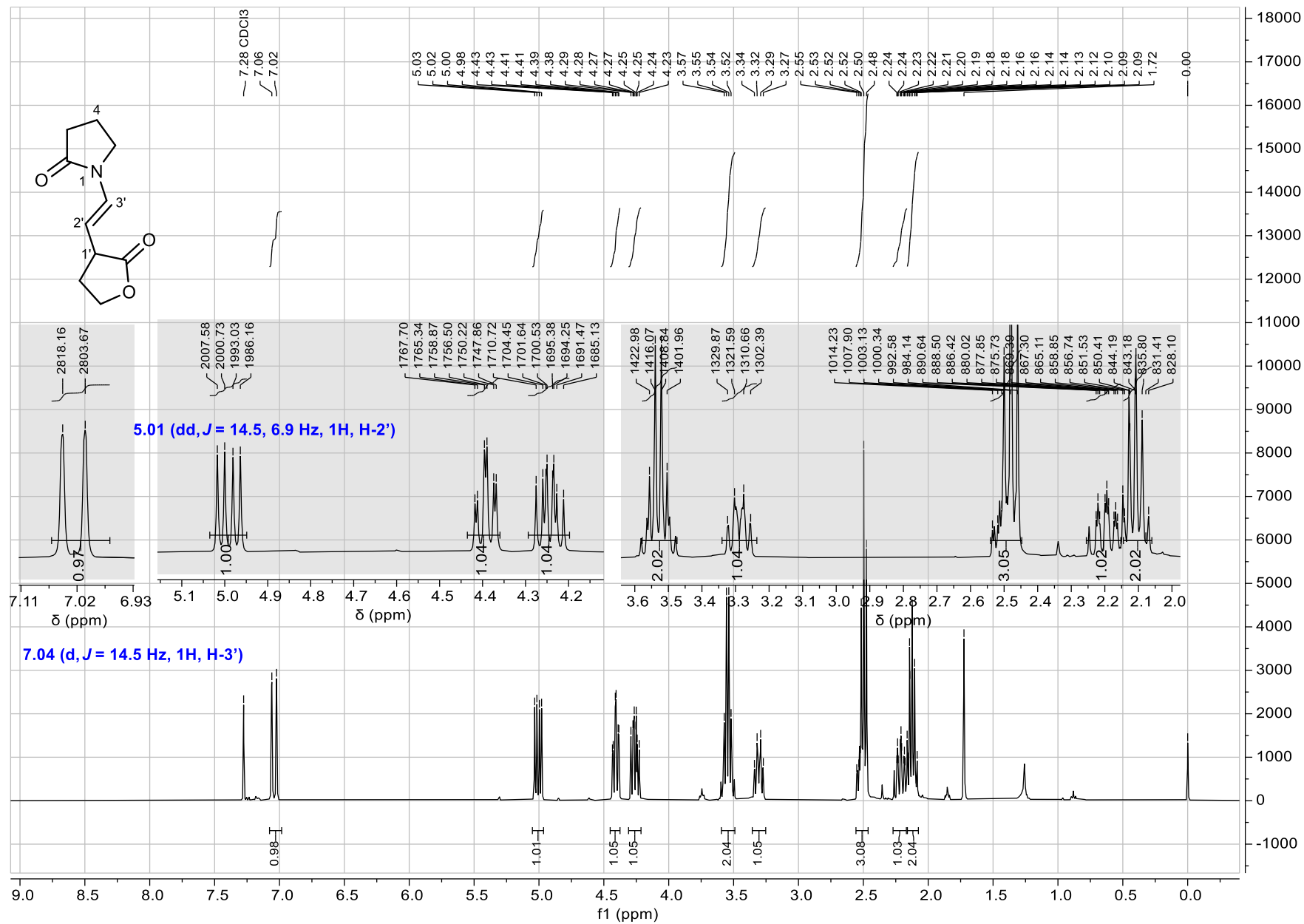
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3k.

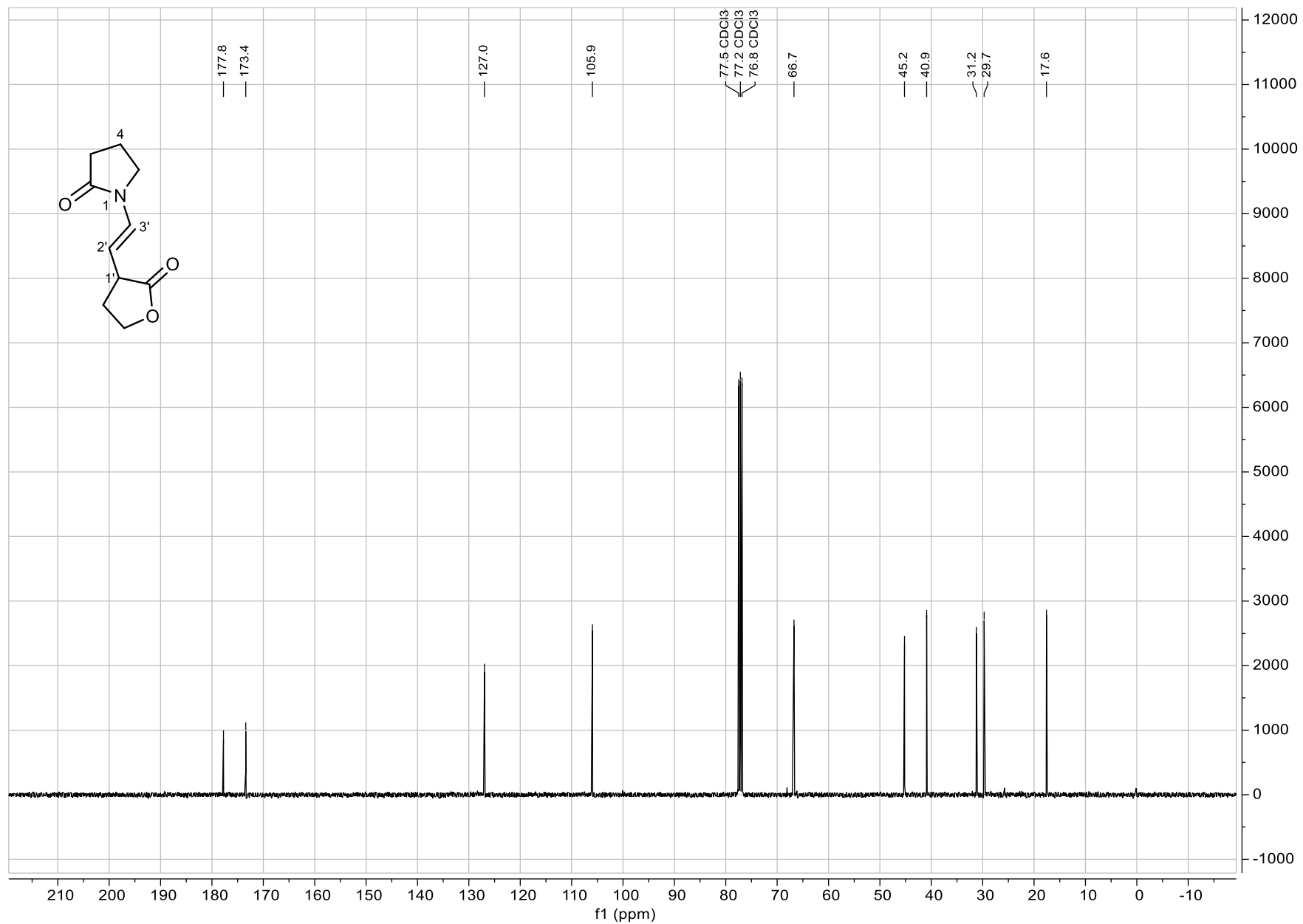
^1H NMR (400 MHz, CDCl_3) Spectrum of Compound 3I.

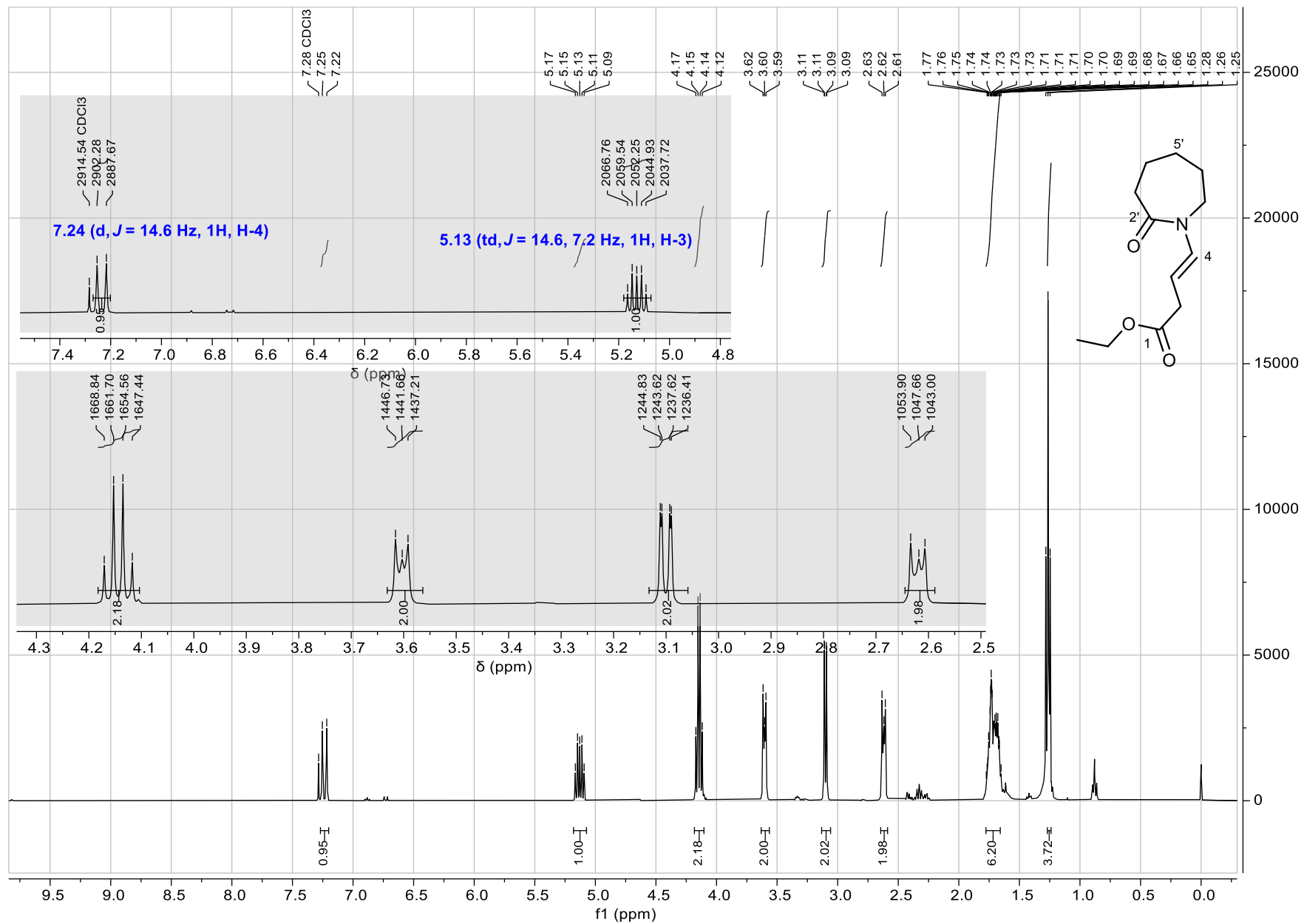
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3I.

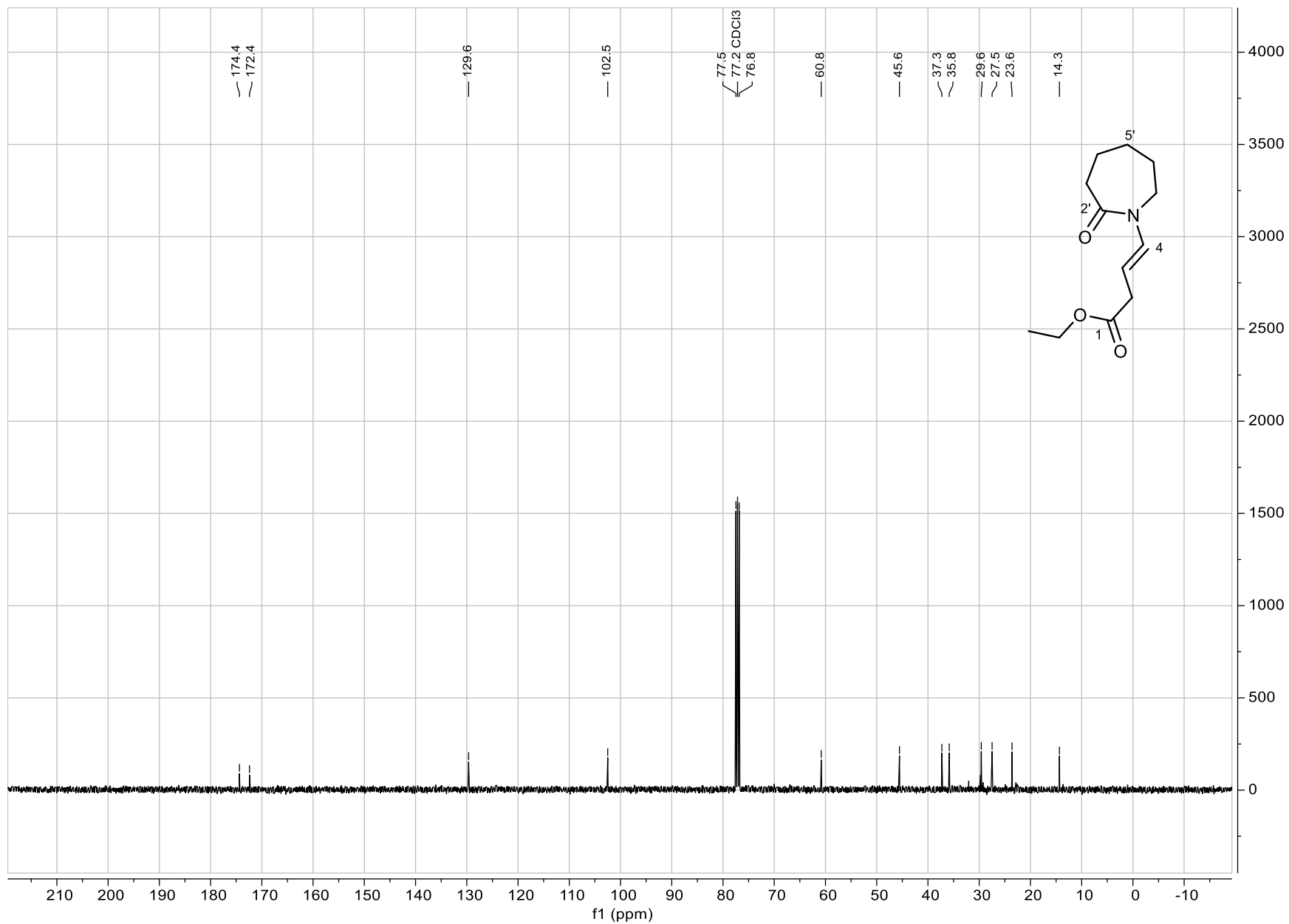
^1H NMR (400 MHz, CDCl_3) Spectrum of Compound 3m.

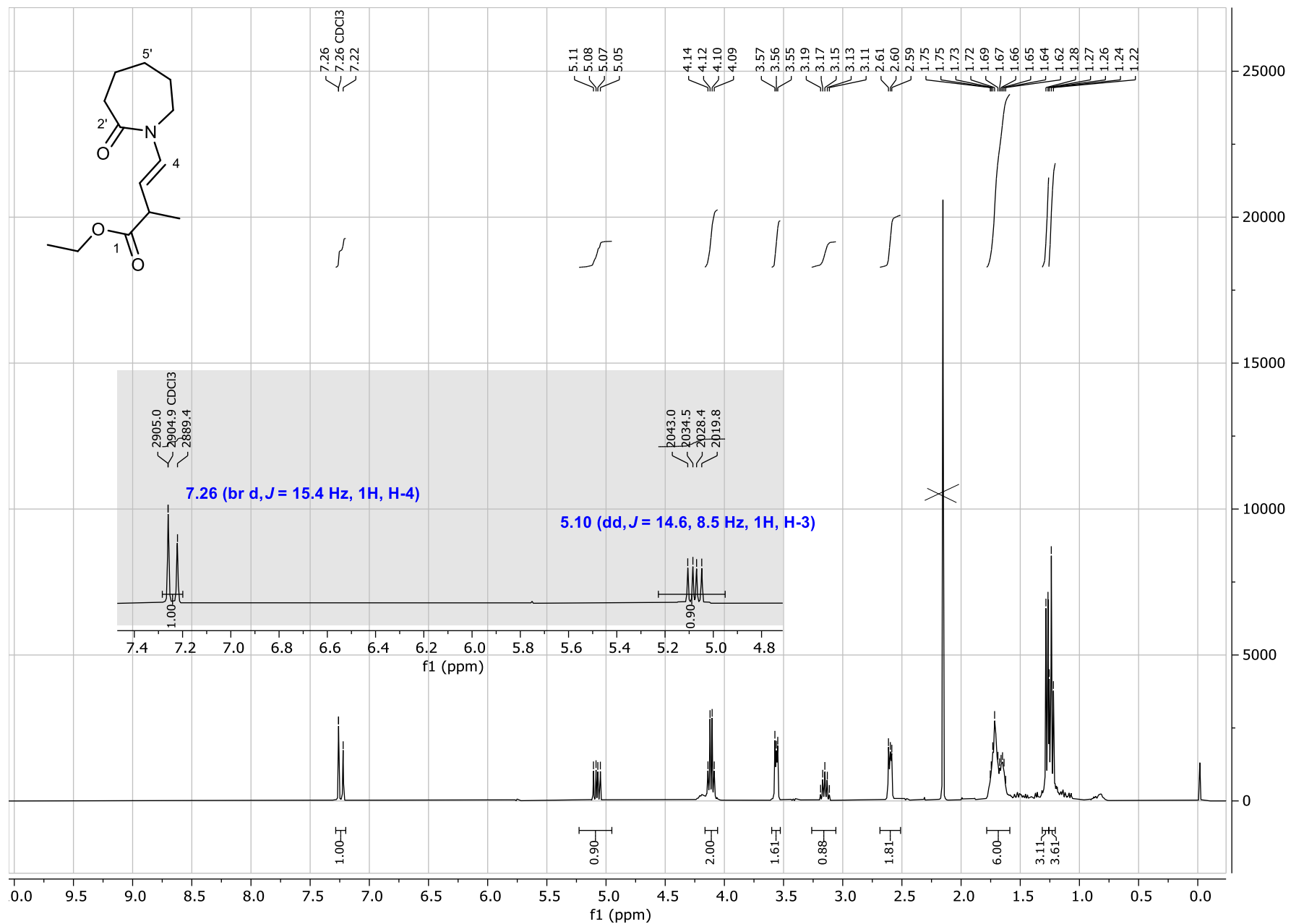
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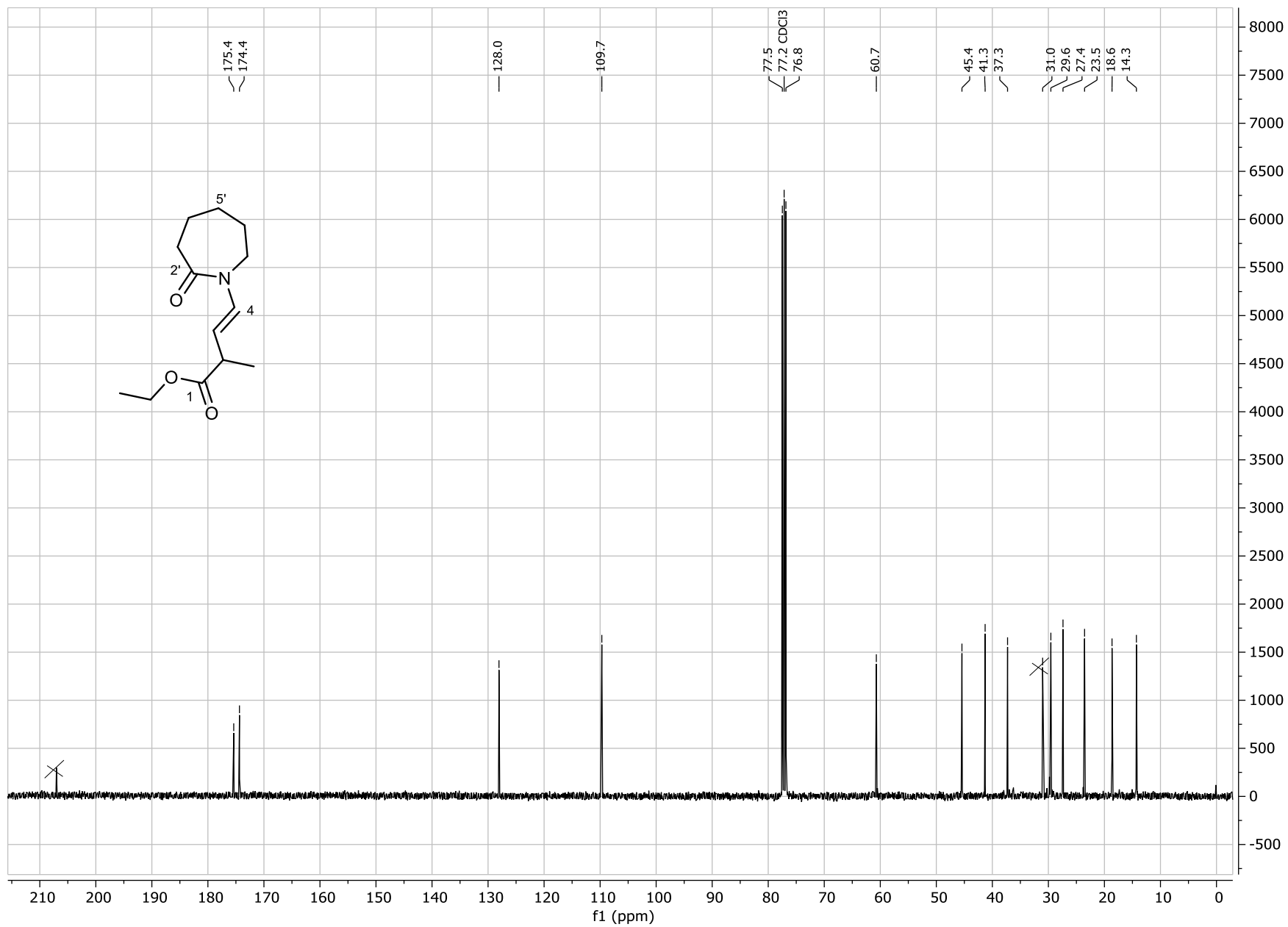
¹H NMR (400 MHz, CDCl₃) Spectrum of Compound 3n.

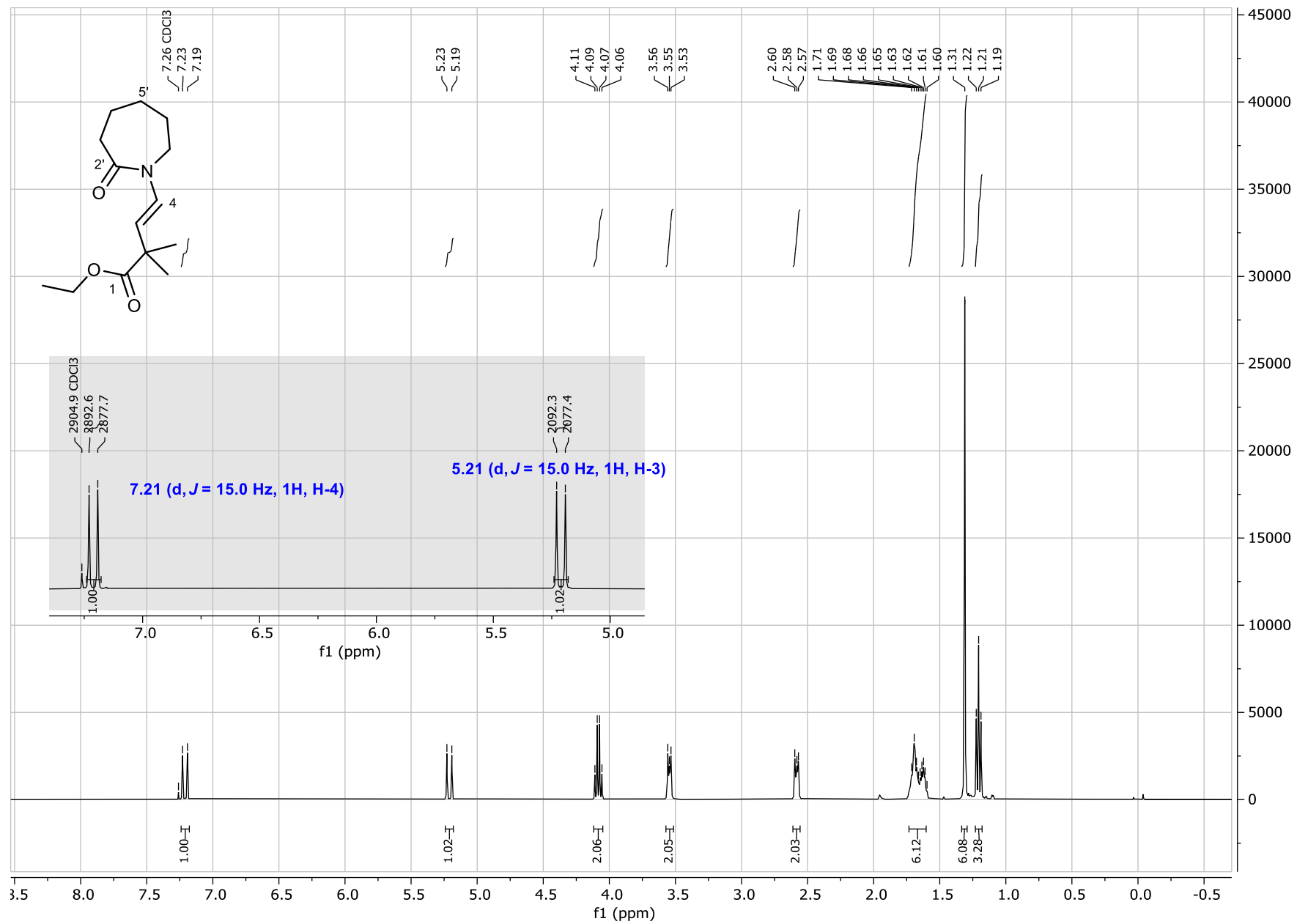
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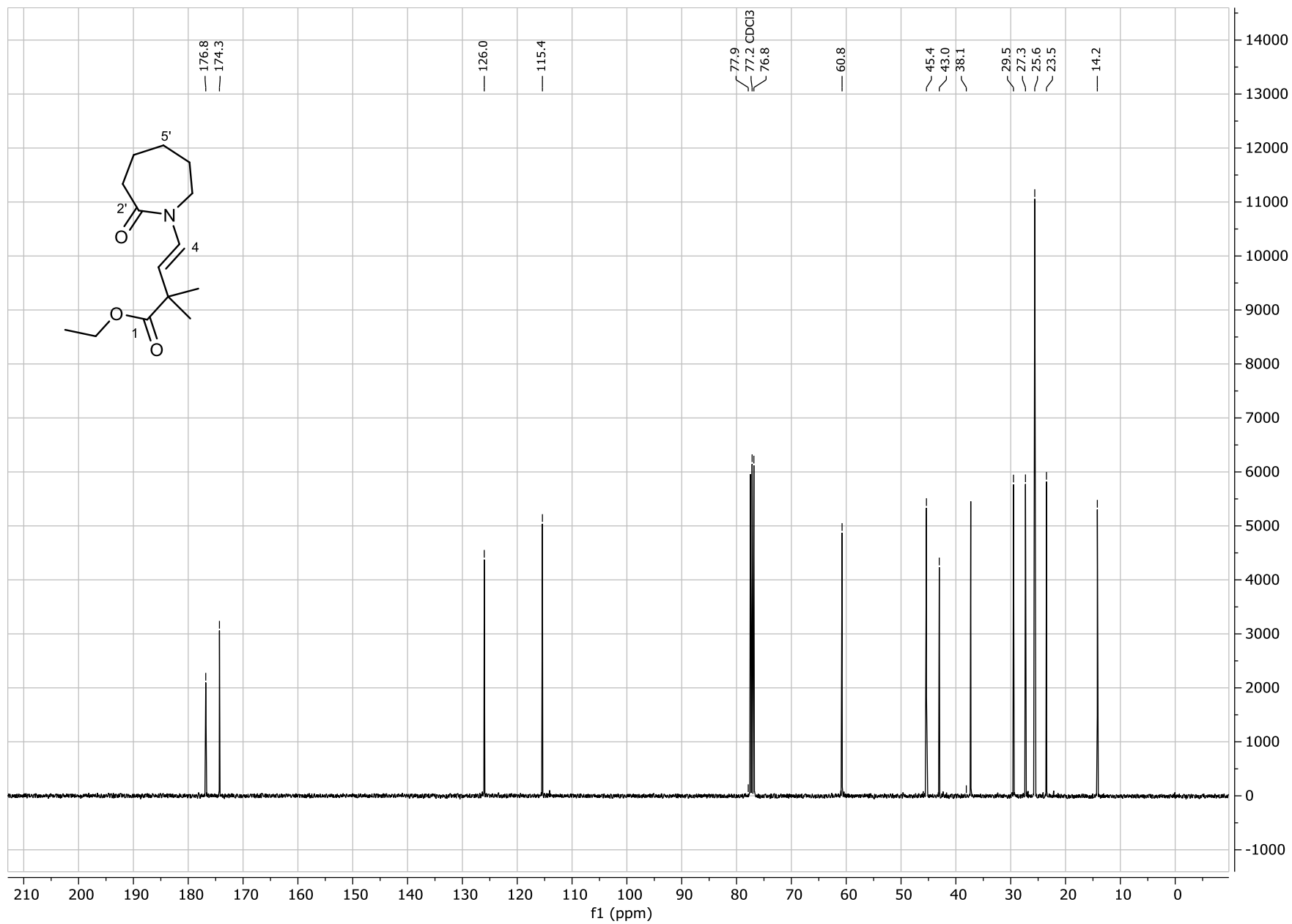
^1H NMR (400 MHz, CDCl_3) Spectrum of Compound 3o.

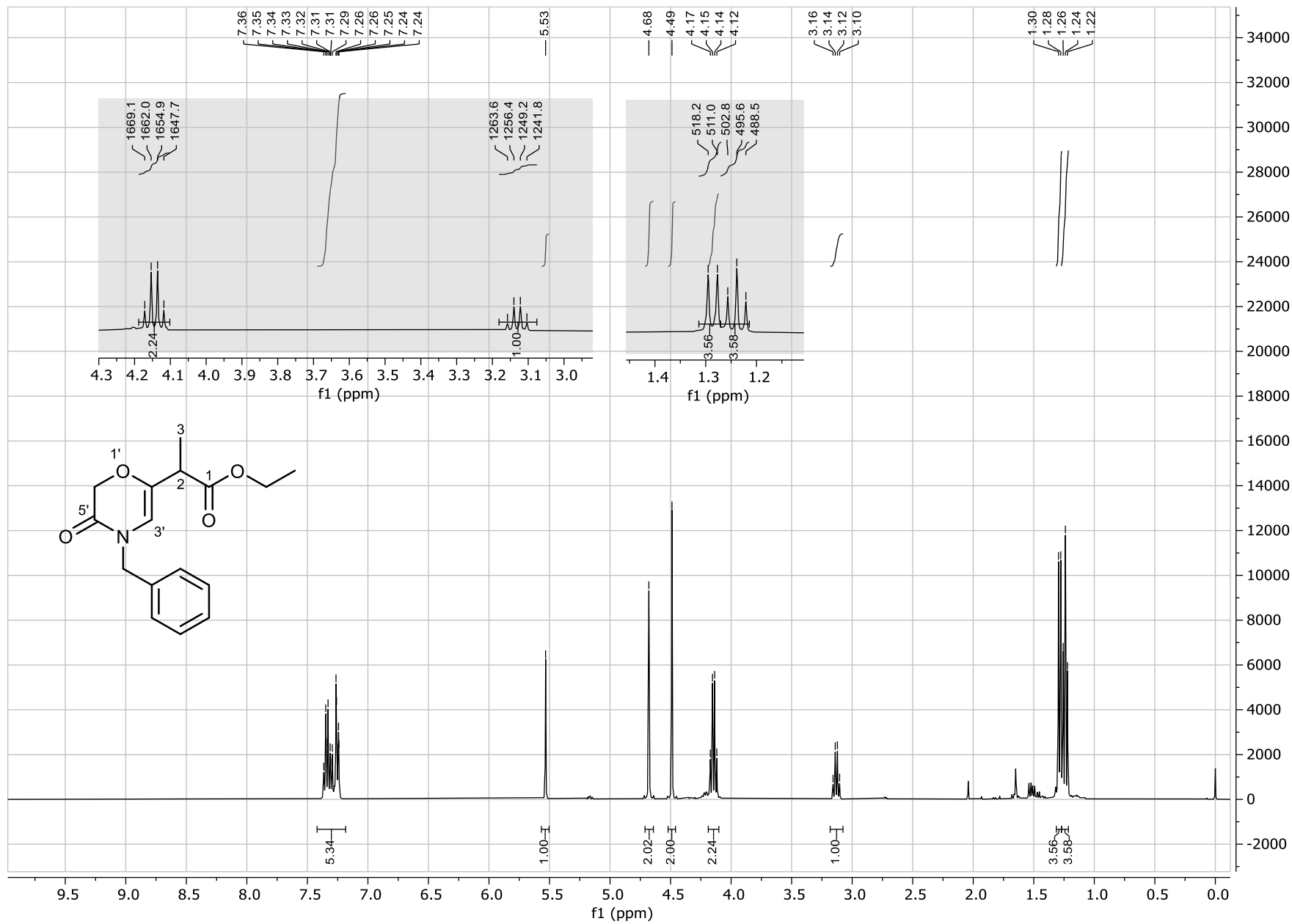
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3o.

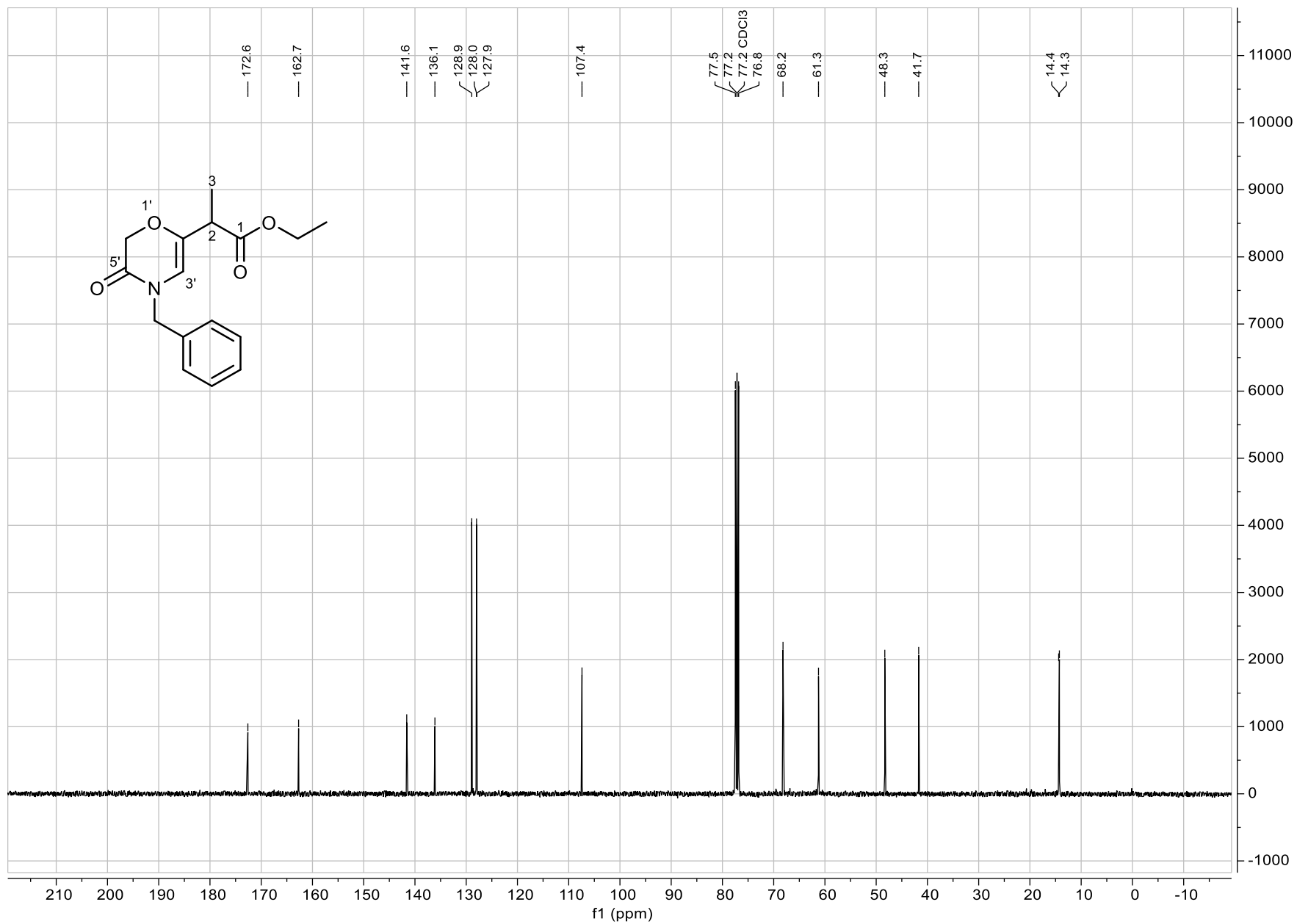
^1H NMR (400 MHz, CDCl_3) Spectrum of Compound 3p.

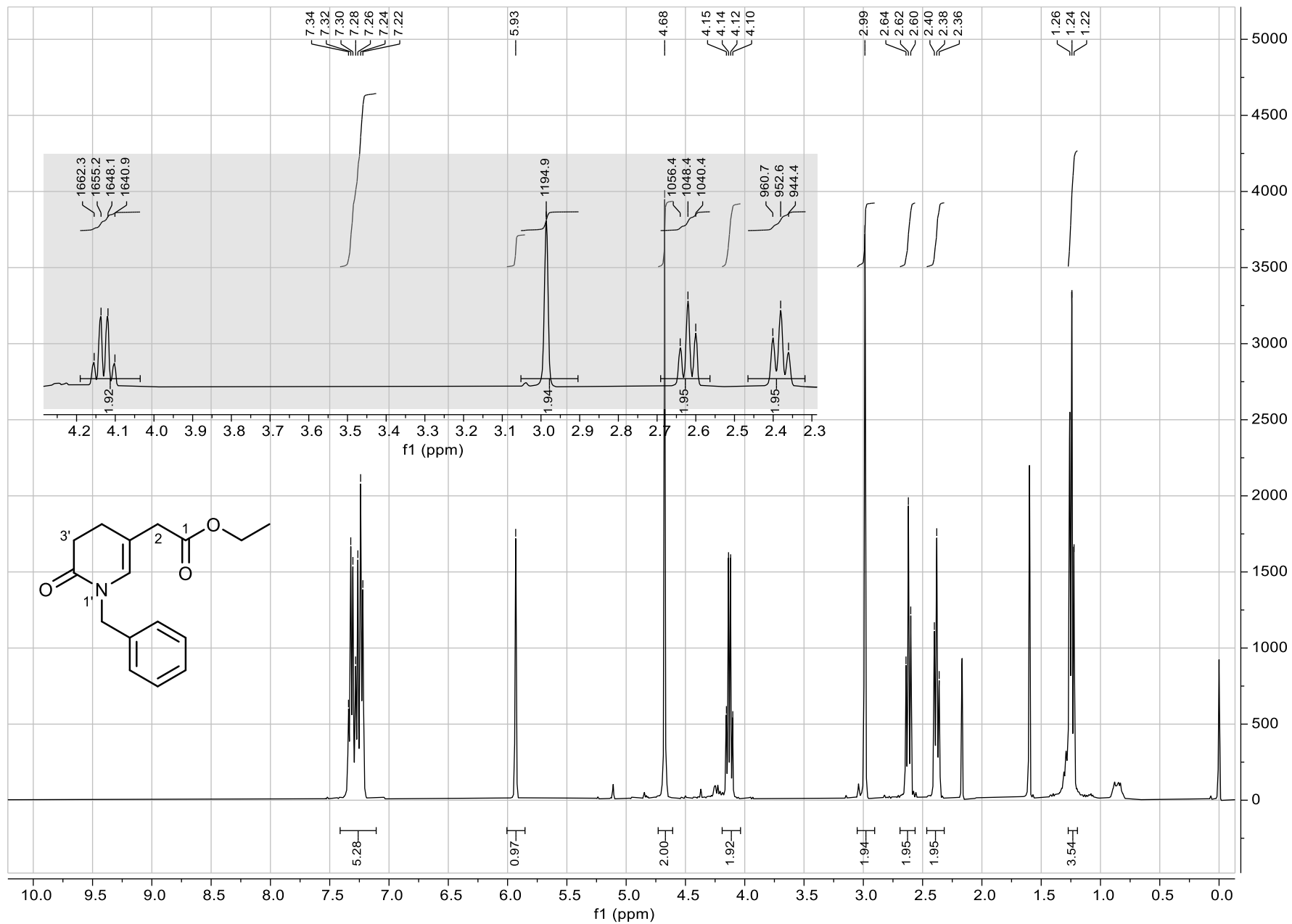
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3p.

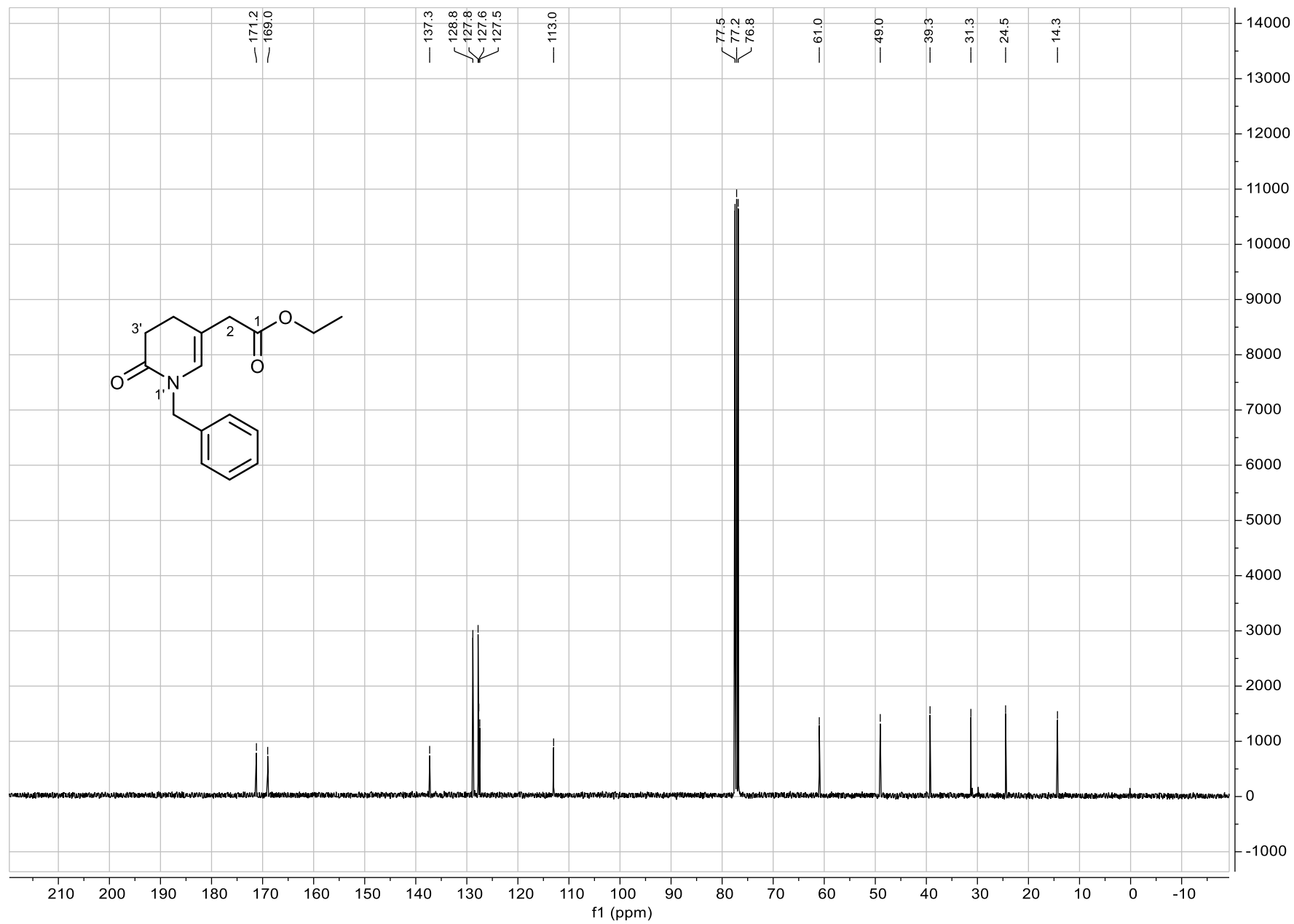
^1H NMR (400 MHz, CDCl_3) Spectrum of Compound 3q.

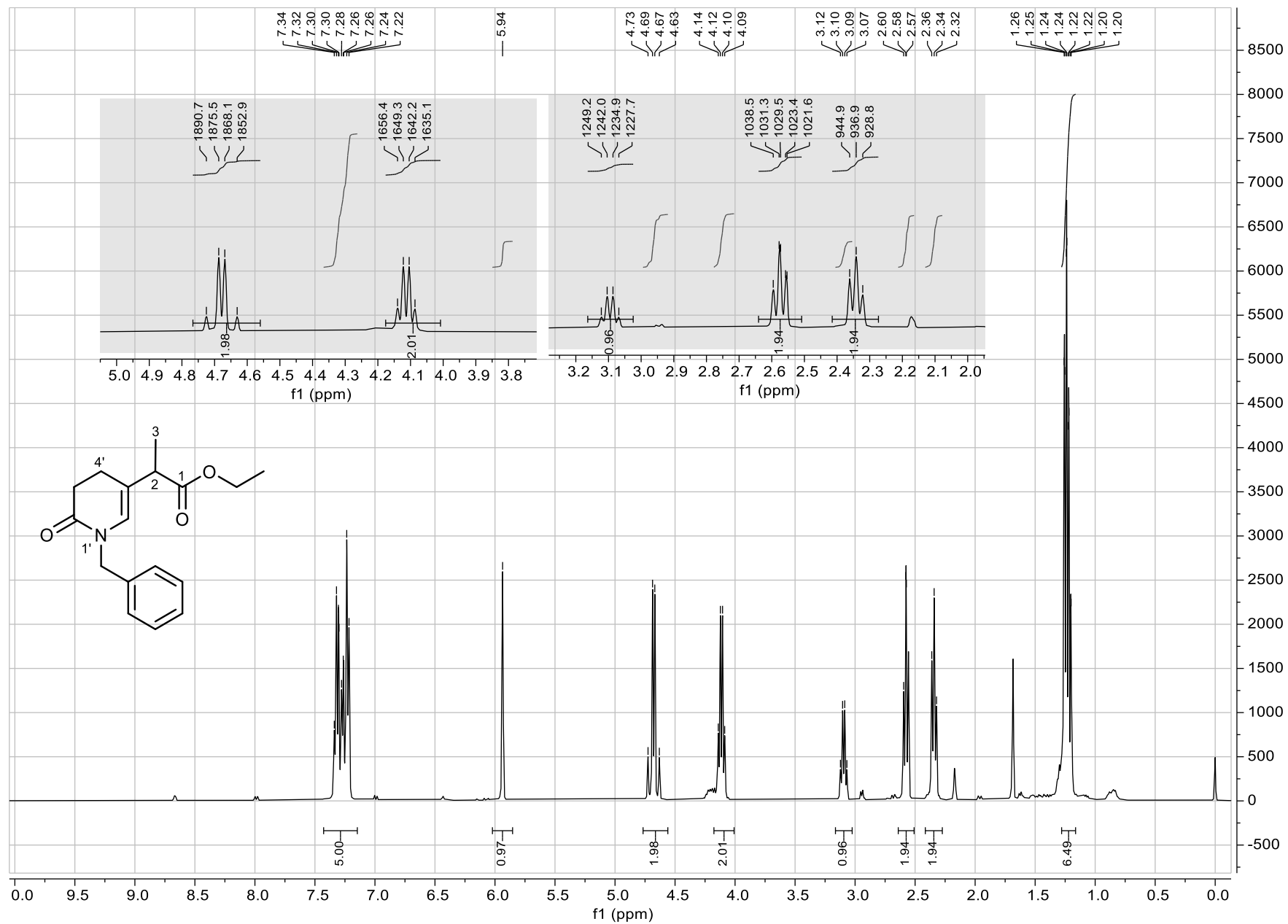
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3q.

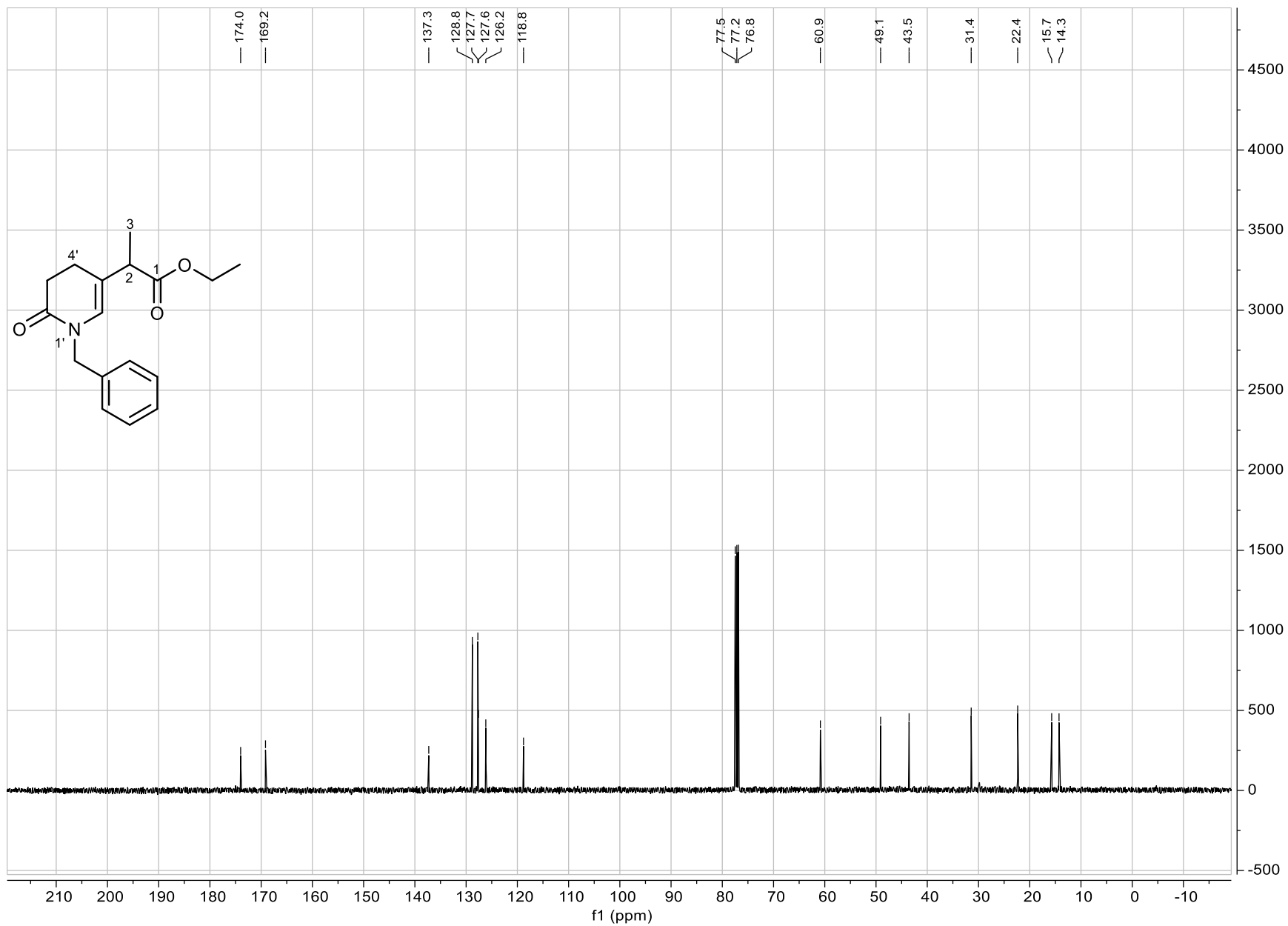
^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3r.

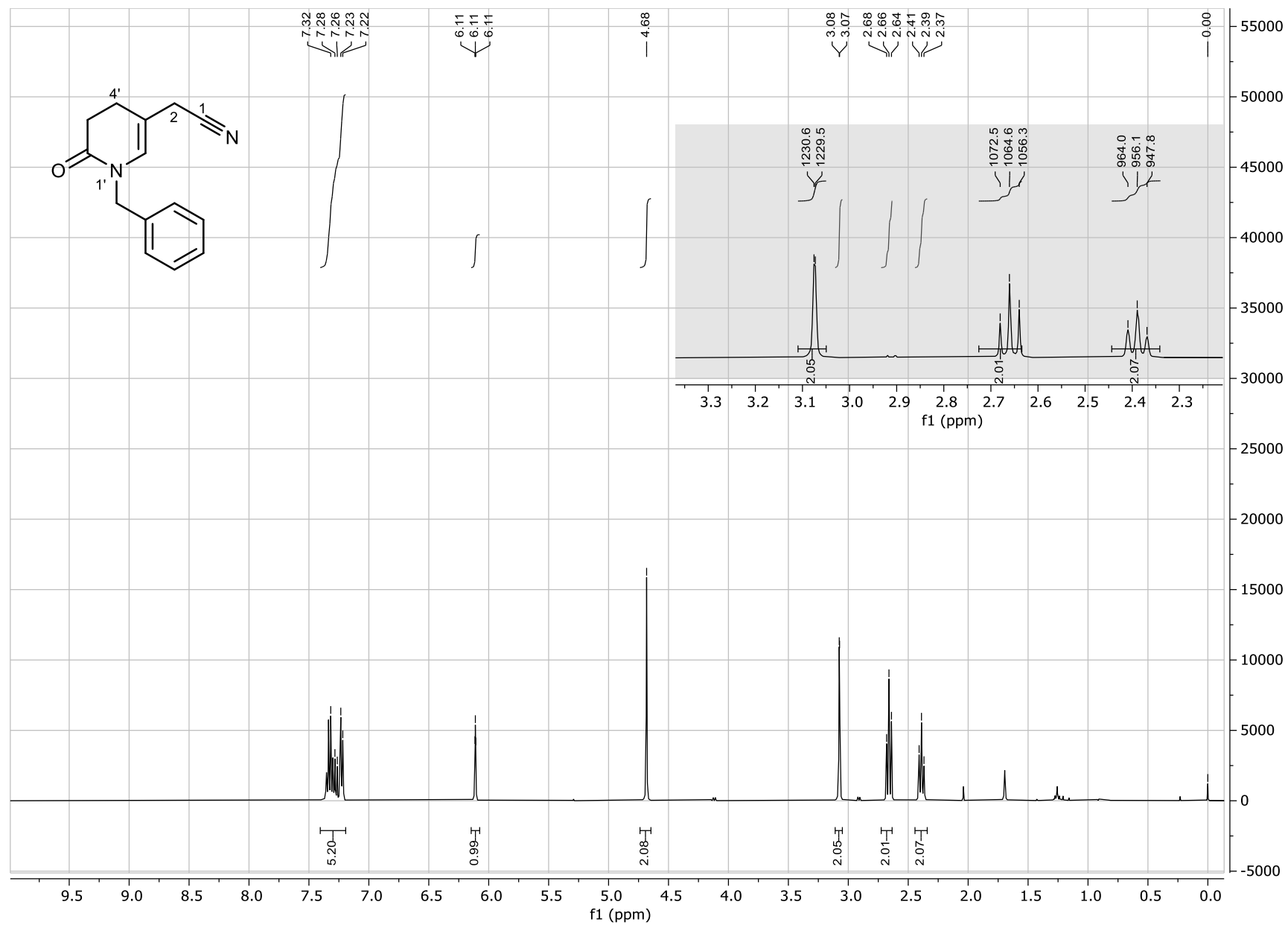
^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3r.

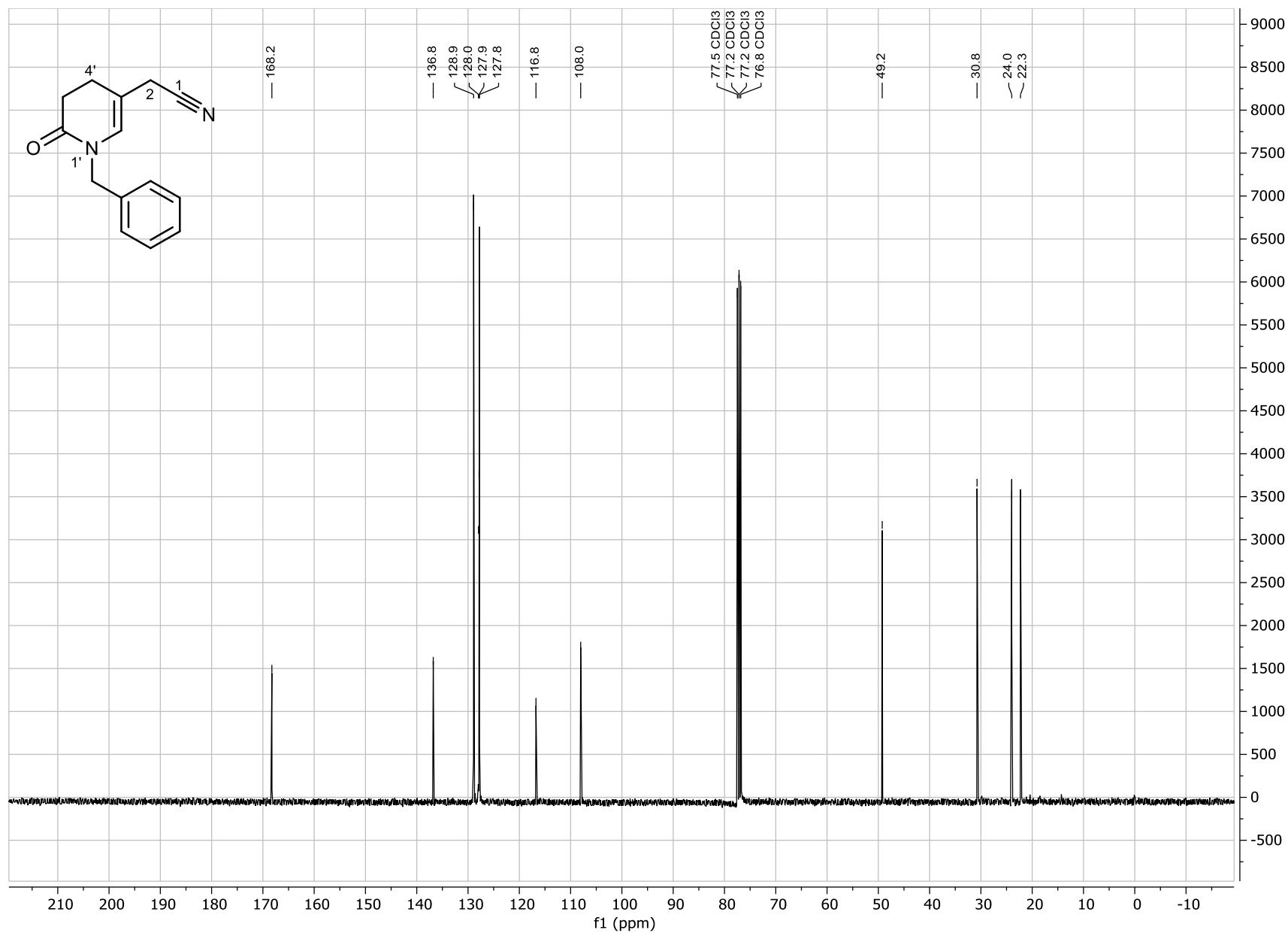
^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3s.

^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3s.

^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3t.

^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3t.

^1H NMR (400 MHz, CDCl_3/TMS) Spectrum of Compound 3u.

^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3u.

^1H NMR (400 MHz, CDCl_3) Spectrum of Compound 3v.

^{13}C NMR (101 MHz, CDCl_3) Spectrum of Compound 3v.