

Supporting Information

Thiazolium salt-catalyzed [3 + 2 + 1] cyclization for the synthesis of trisubstituted 2-pyrones using arylglyoxals as a carbonyl source

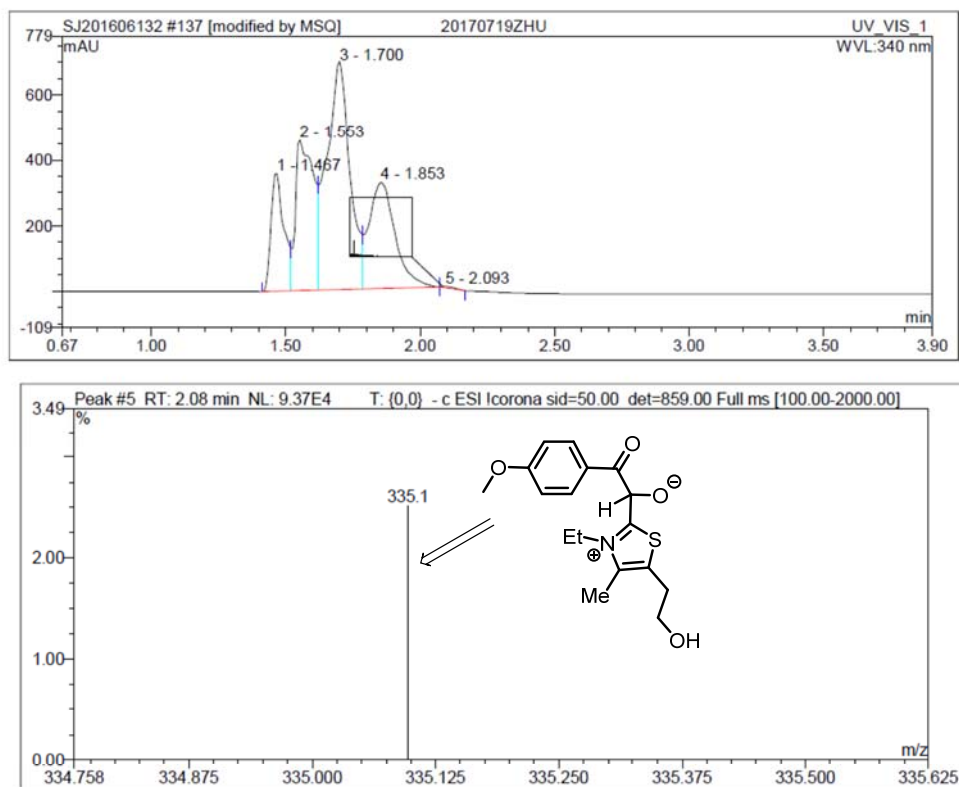
Li-Chen Xu,^{1,a} Peng Zhou,^{1,a} Jia-Zhuo Li,^a Wen-Juan Hao,^a Shu-Jiang Tu,^{*,a} and Bo Jiang^{*,a}

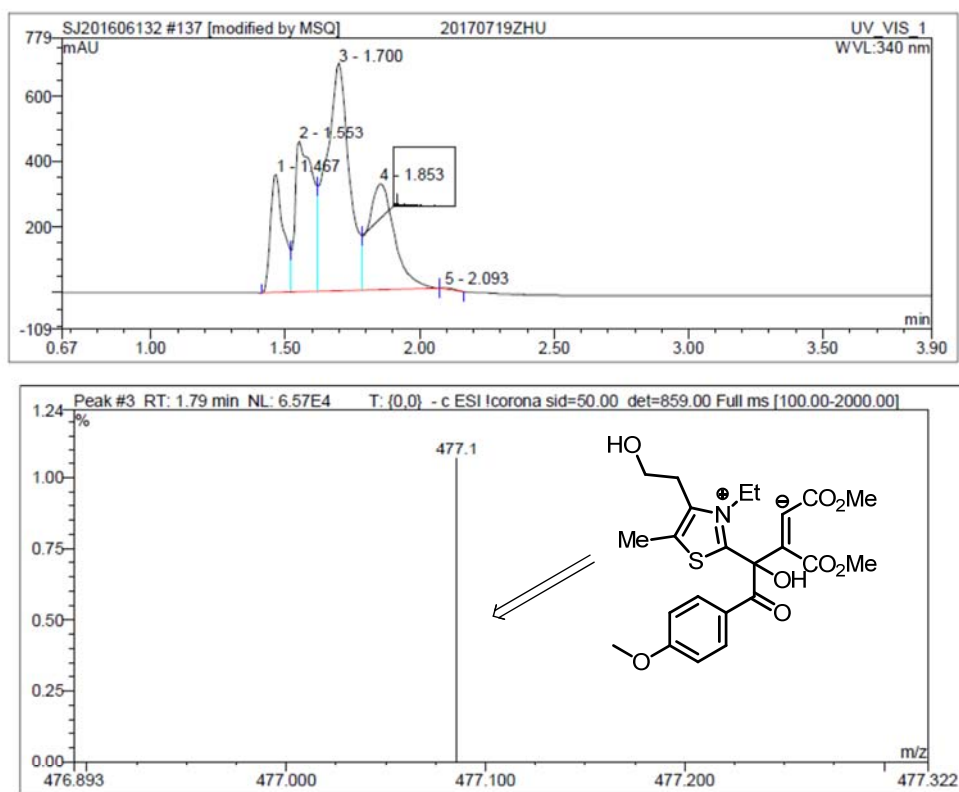
^a School of Chemistry & Materials Science, Jiangsu Normal University, Xuzhou, 221116, P. R. China;

¹ These authors contributed equally.

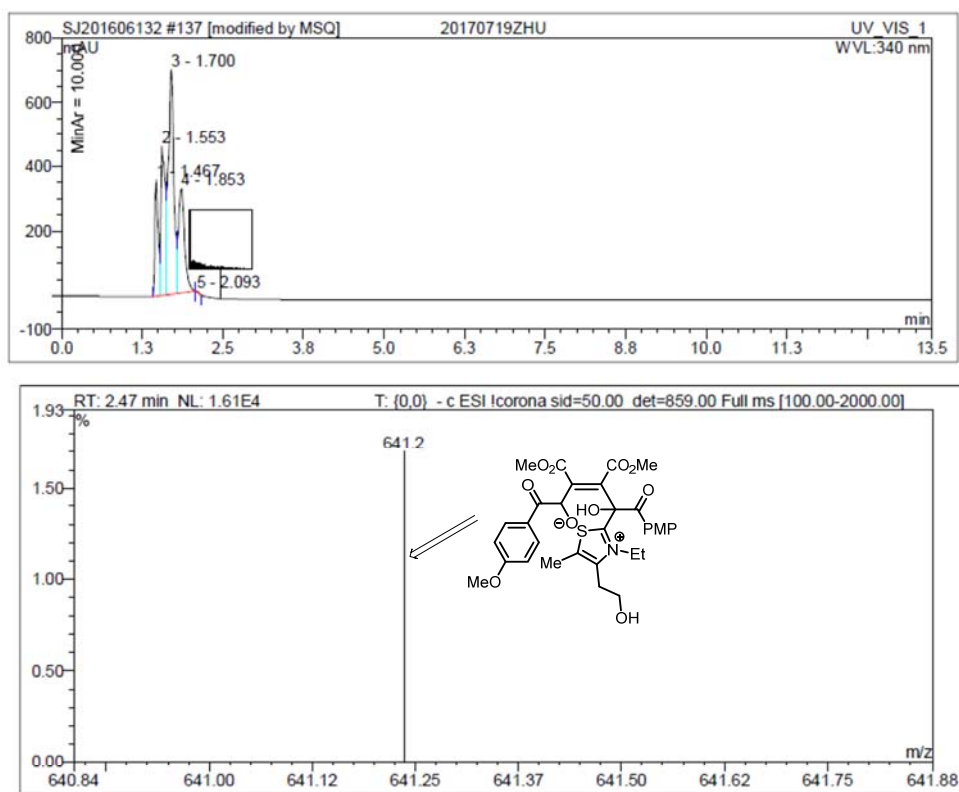
Context

Copy of LC-MS of Intermediate C	S2
Copy of LC-MS of Intermediate E	S3
Copy of LC-MS of Intermediate F	S4
Copy of LC-MS of Intermediate G	S5
Copy of LC-MS of Intermediate H	S6
Copy of LC-MS of Intermediate I	S7
Copy of LC-MS of 4-Methoxybenzoic Acid Intermediate.....	S8
Copy of LC-MS of Intermediate K	S9
Copies of ¹ H and ¹³ C NMR Spectra for Compounds 3a-3v	S10-S53

Overlay of Samples and Spectra from Integration View

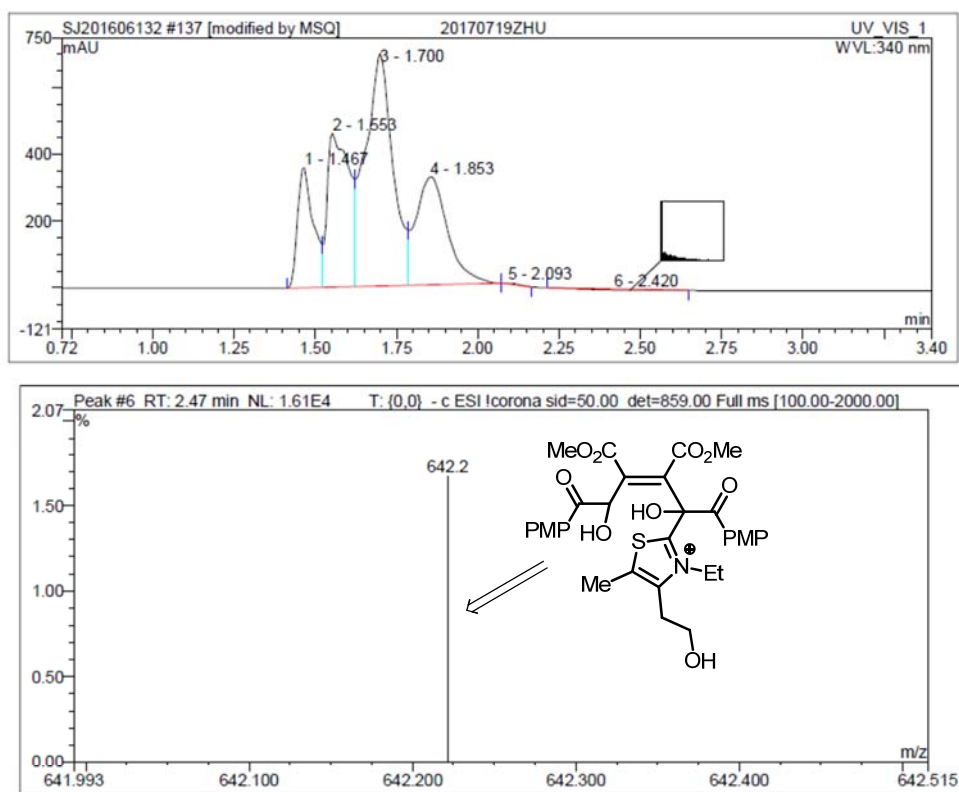
Overlay of Samples and Spectra from Integration View

Copy of LC-MS of Intermediate E

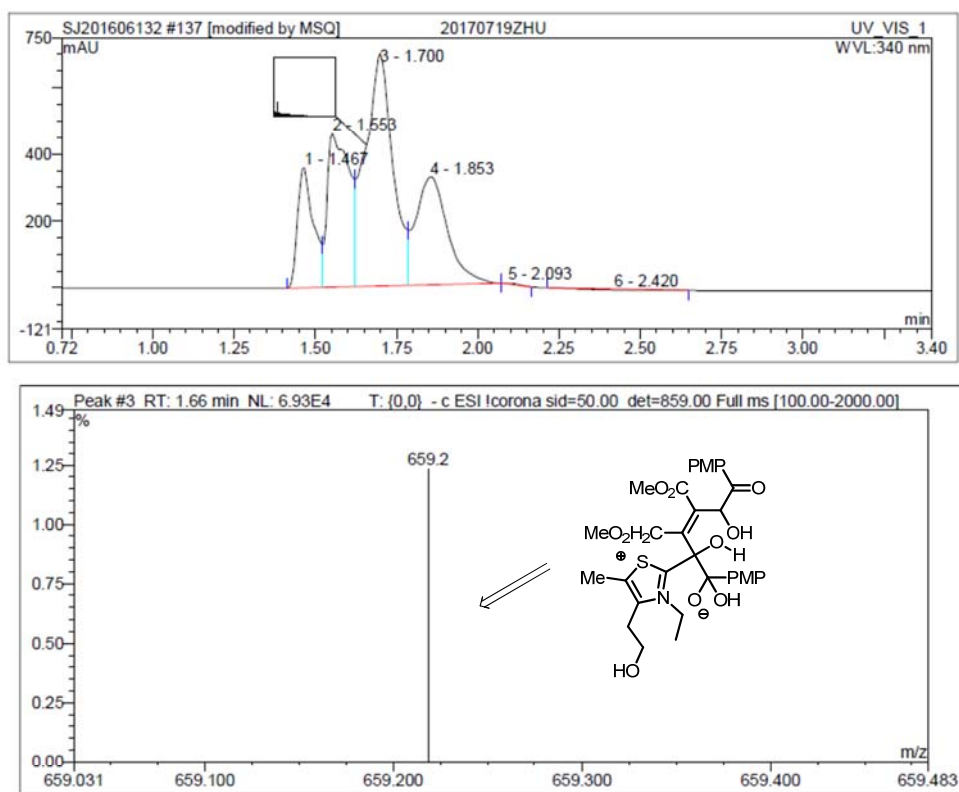
Overlay of Samples and Spectra from Integration View

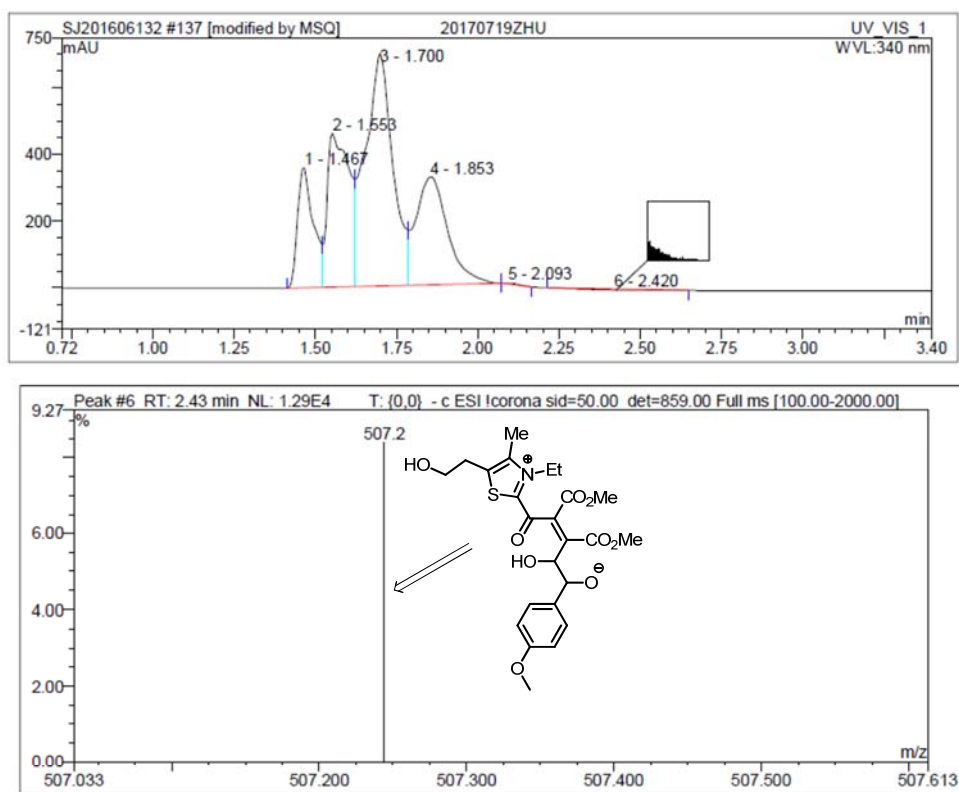
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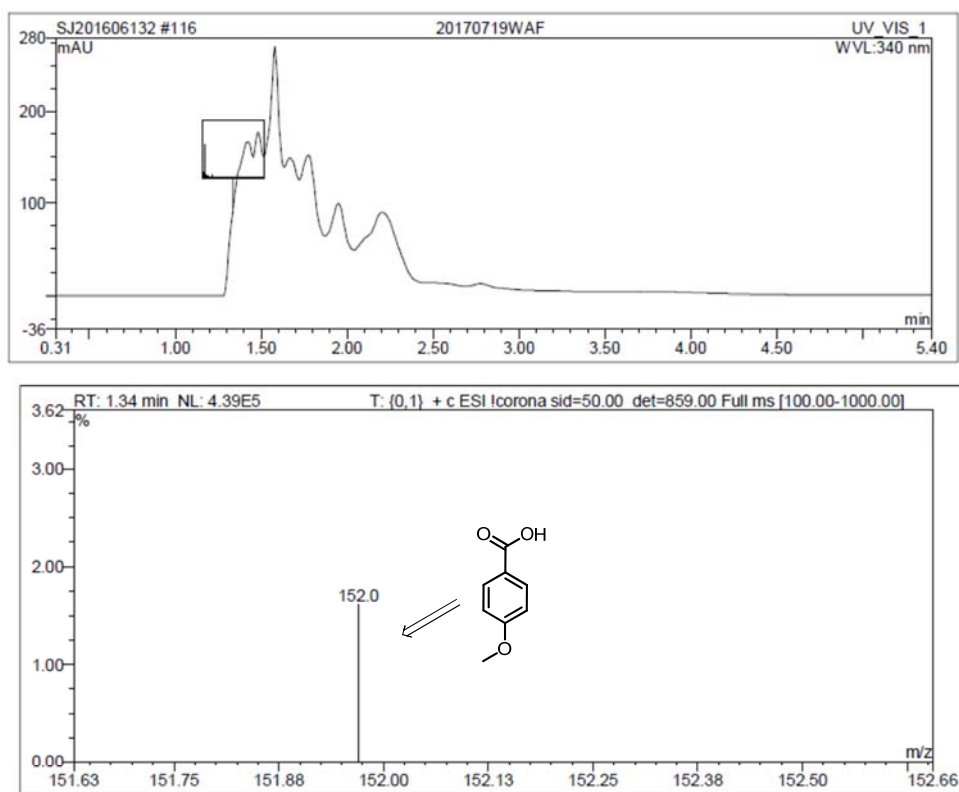
Chromeleon (c) Dionex 1996-2006
Version 6.80 SR15 Build 4656 (243203)[Create PDF](http://www.novapdf.com) files without this message by purchasing novaPDF printer (<http://www.novapdf.com>)Copy of LC-MS of Intermediate **F**

Overlay of Samples and Spectra from Integration View

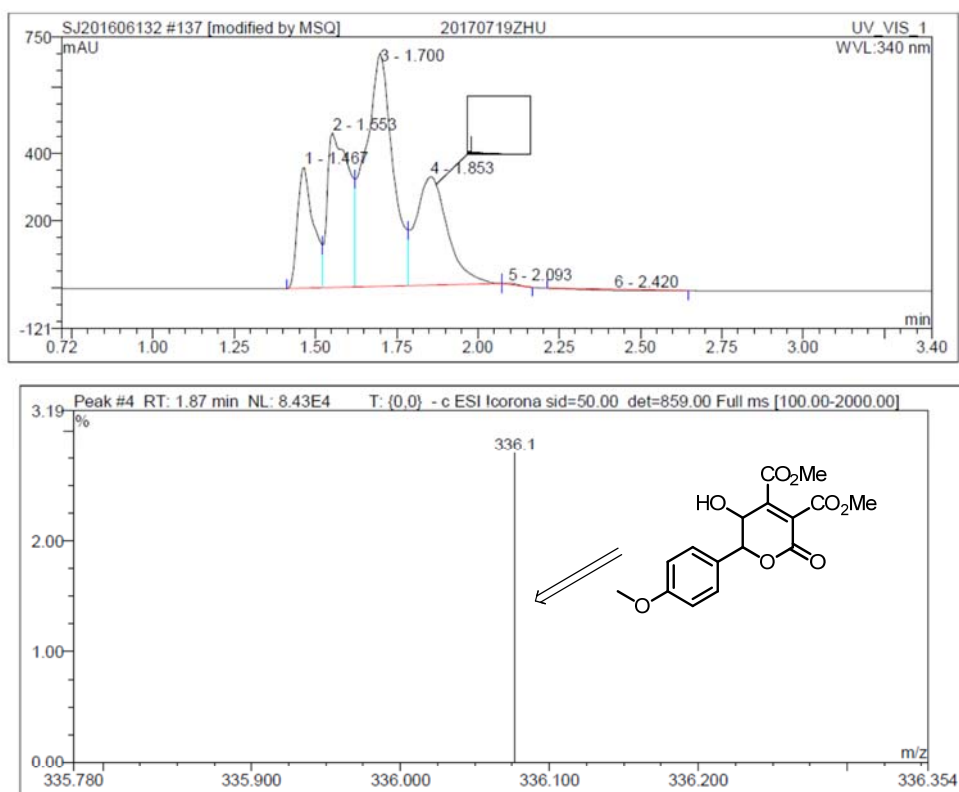
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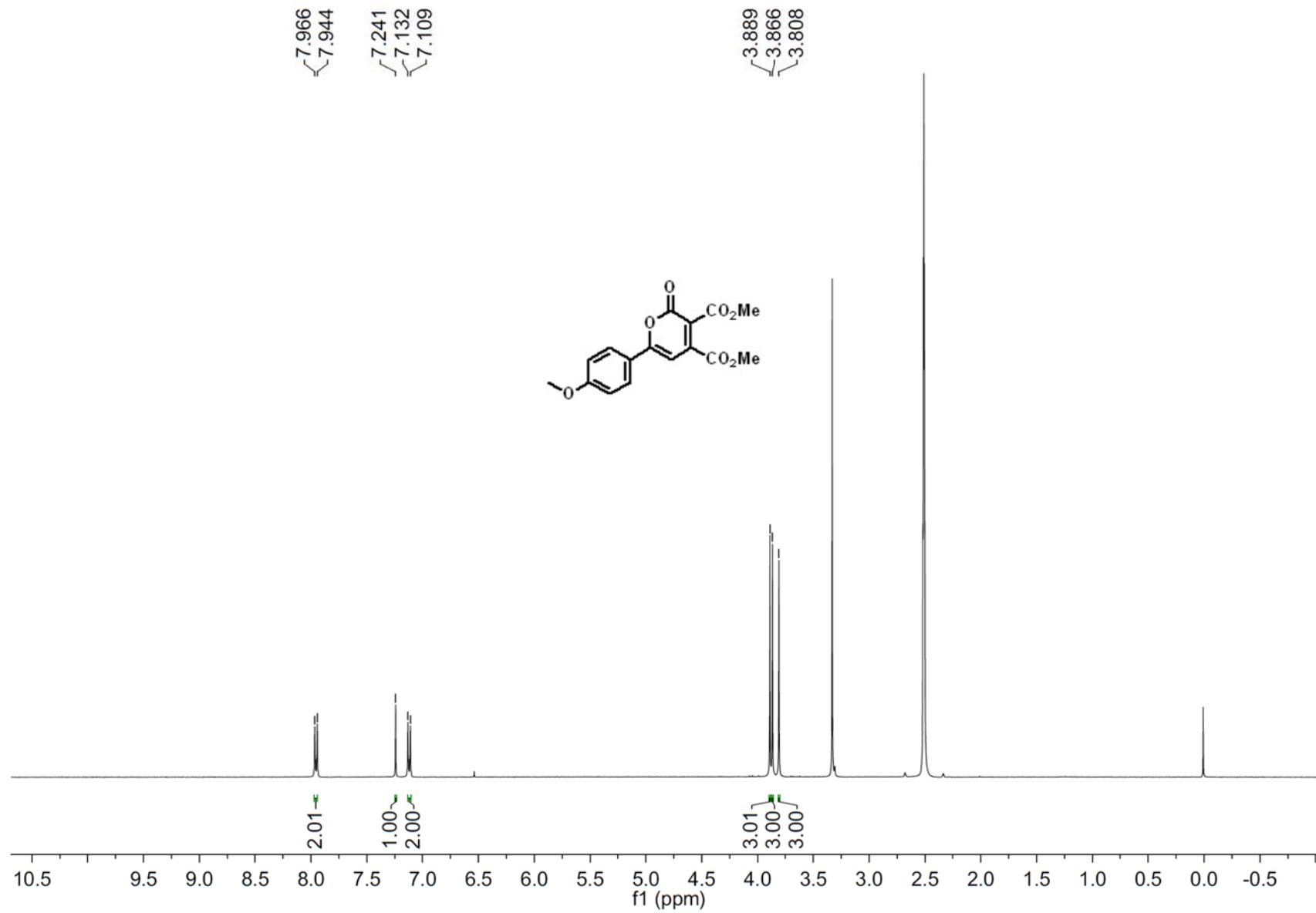
Overlay of Samples and Spectra from Integration ViewCopy of LC-MS of Intermediate **H**

Overlay of Samples and Spectra from Integration View

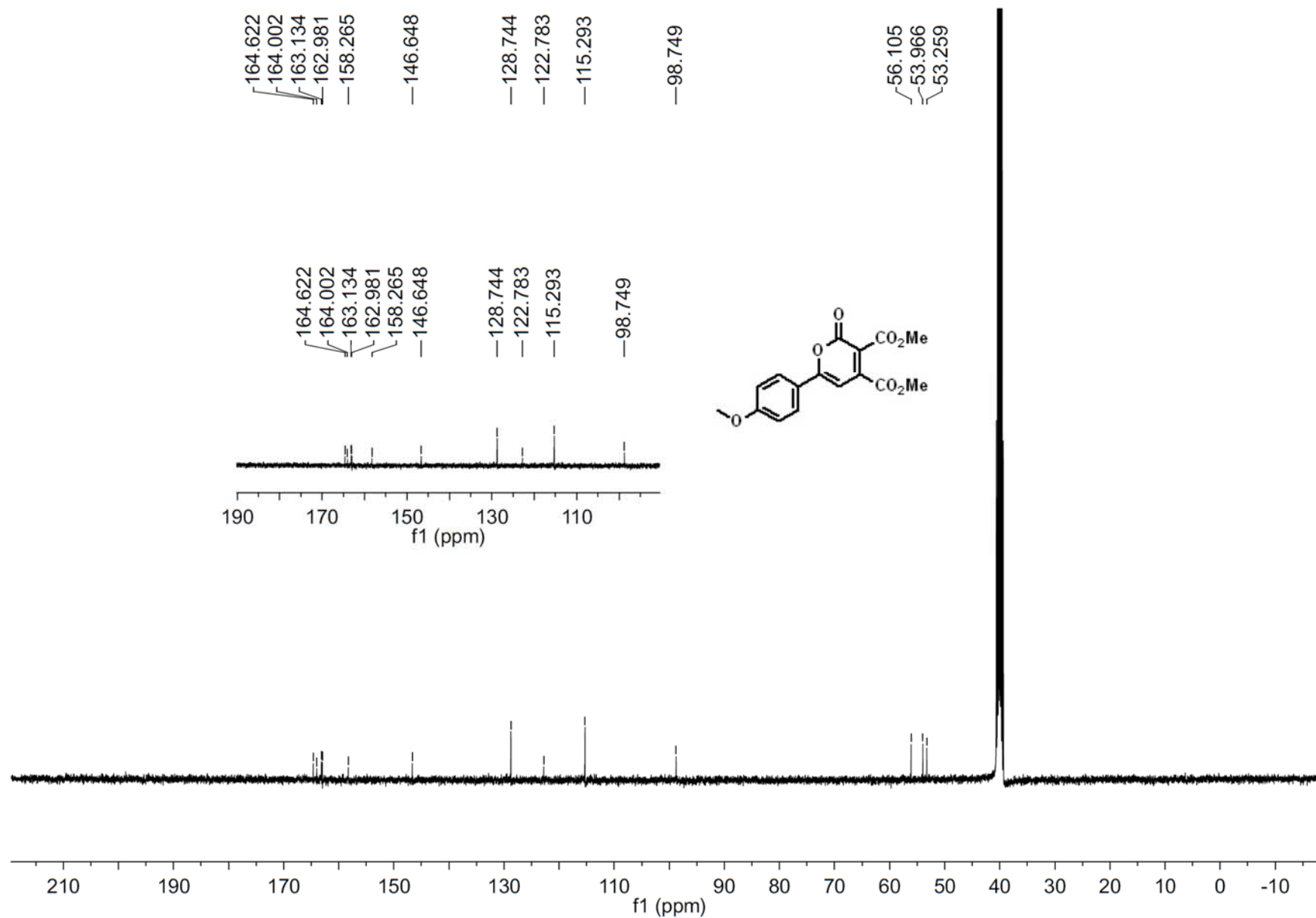
Overlay of Samples and Spectra from Integration View

Copy of LC-MS of 4-Methoxybenzoic Acid Intermediate

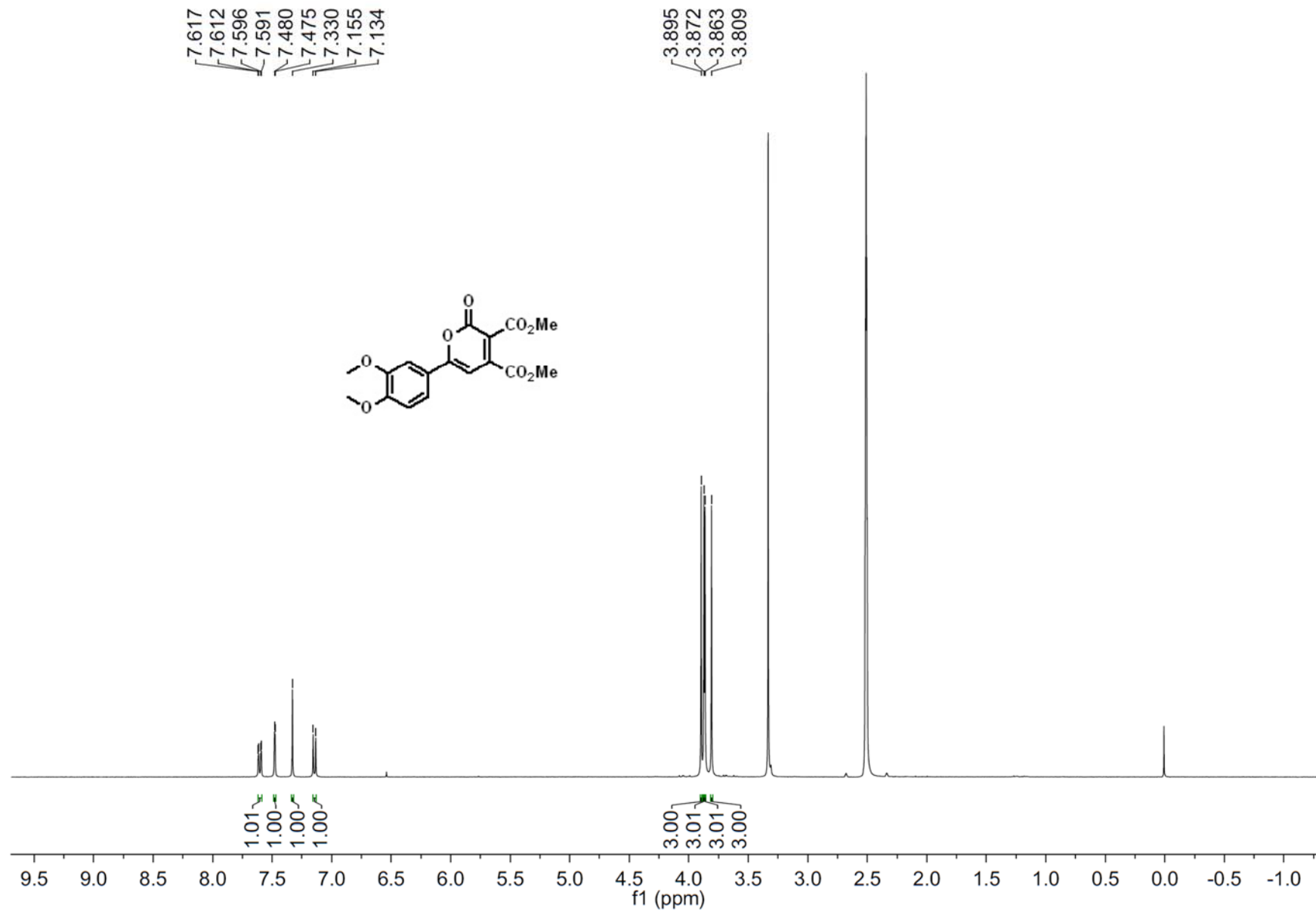
Overlay of Samples and Spectra from Integration ViewCopy of LC-MS of Intermediate **K**



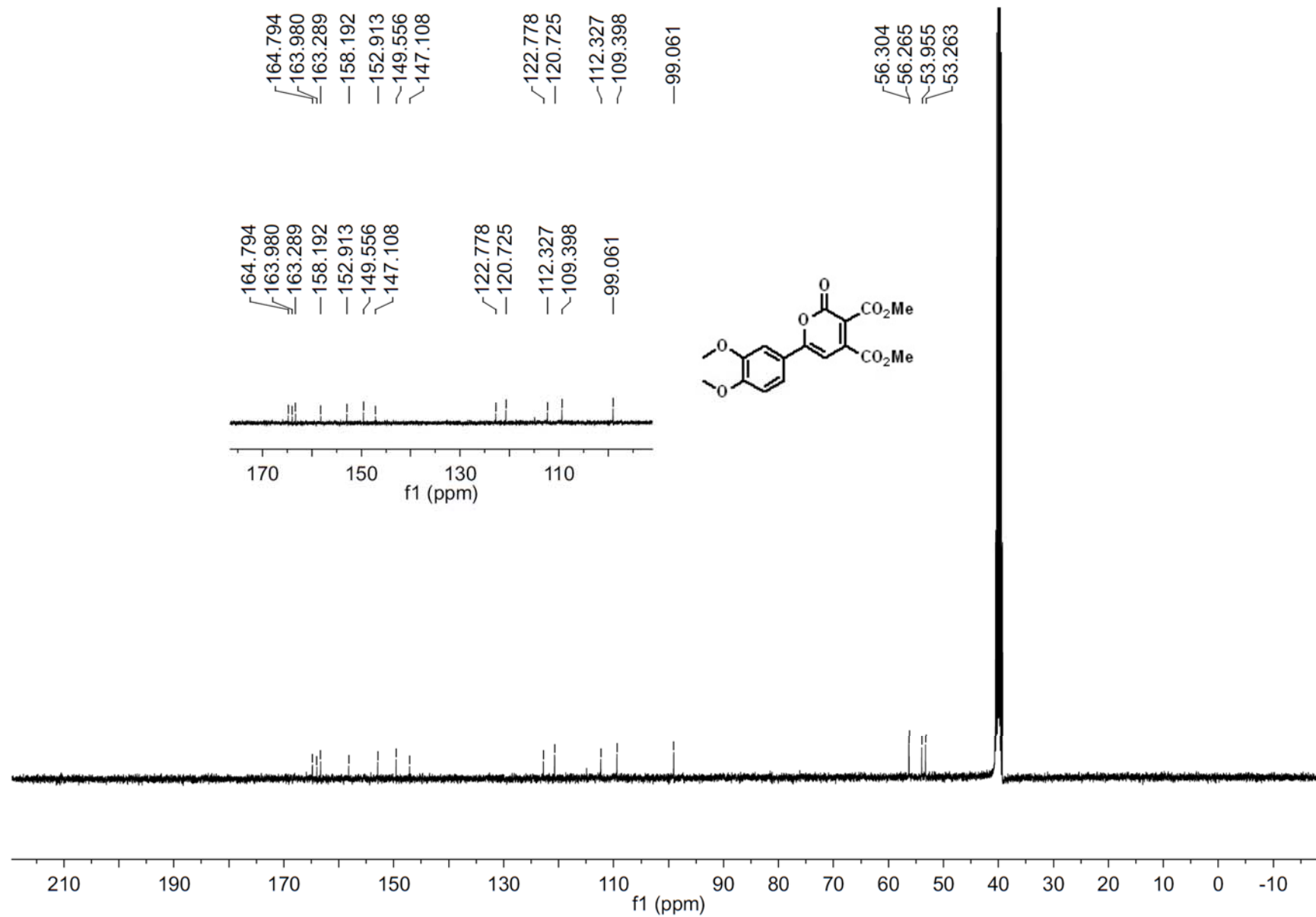
¹H NMR Spectrum of Compound 3a



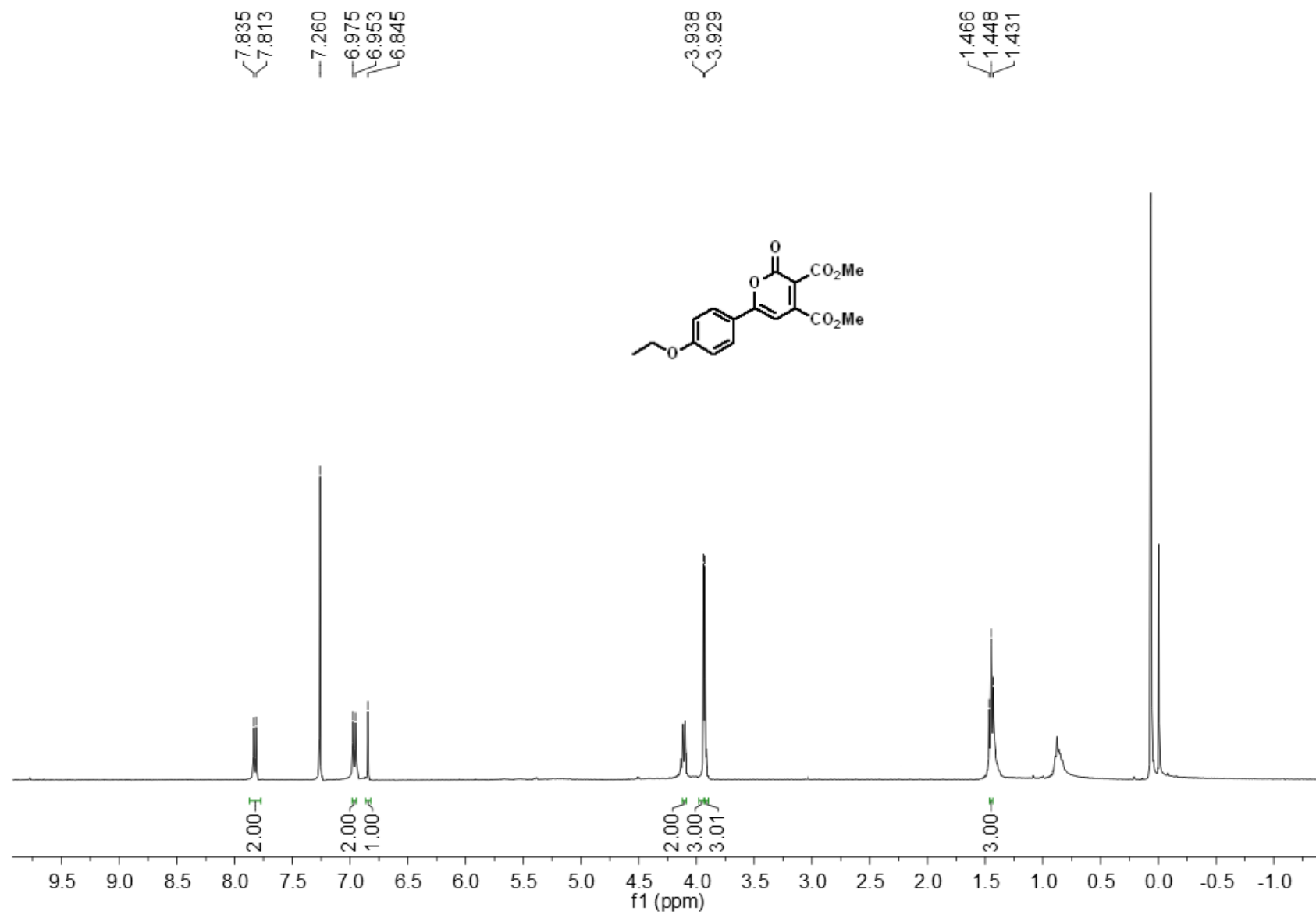
¹³C NMR Spectrum of Compound 3a



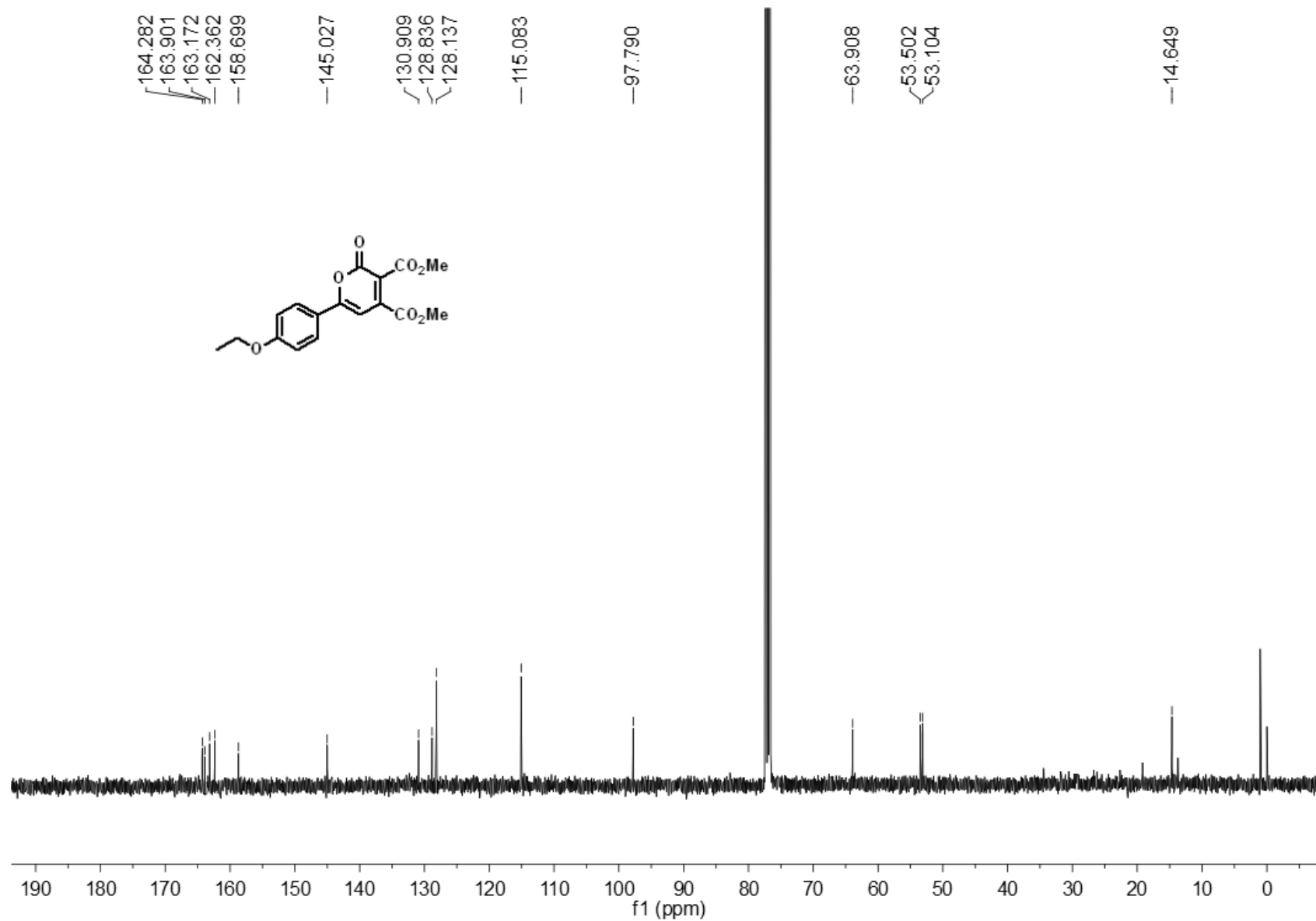
¹H NMR Spectrum of Compound 3b



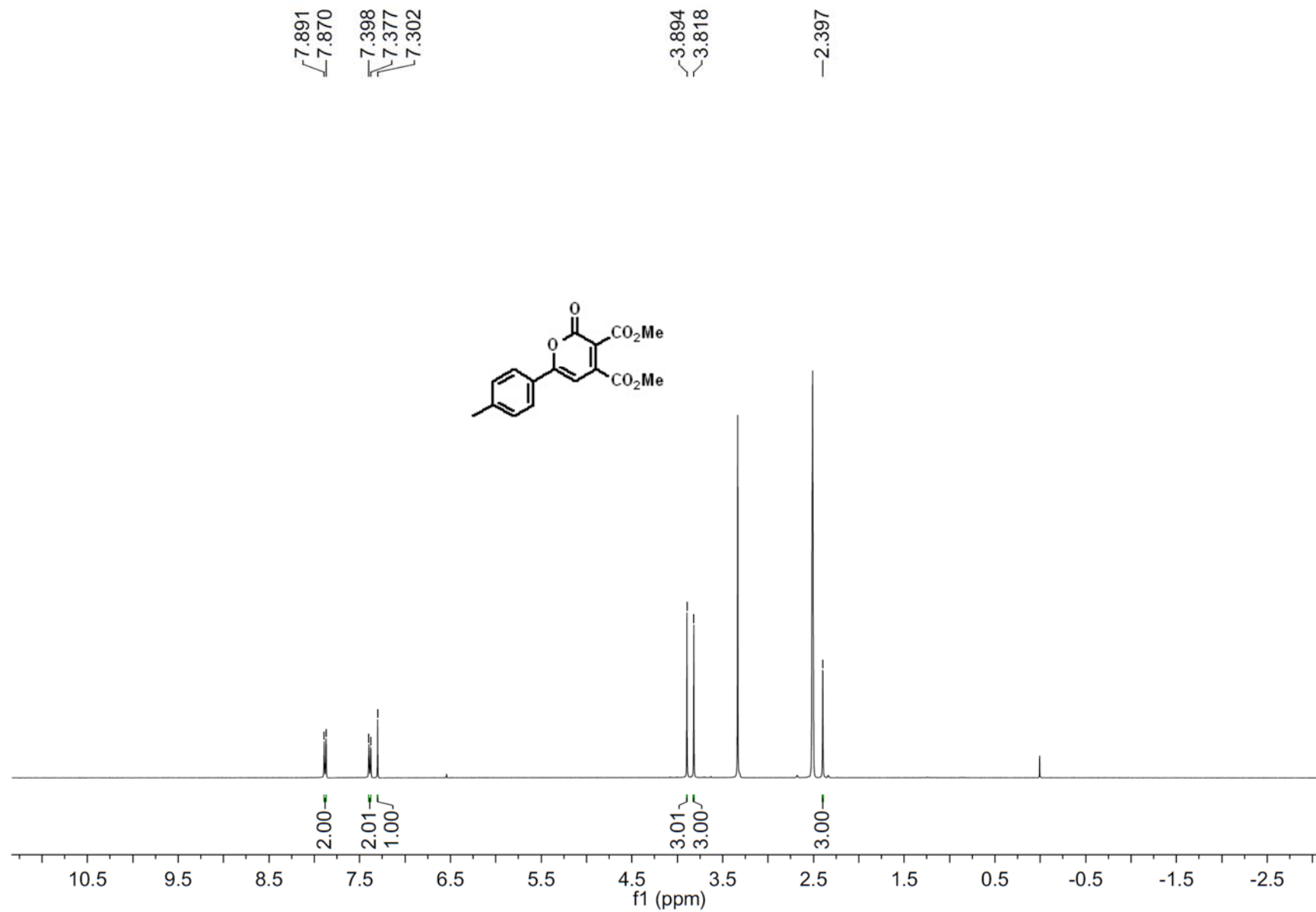
¹³C NMR Spectrum of Compound 3b



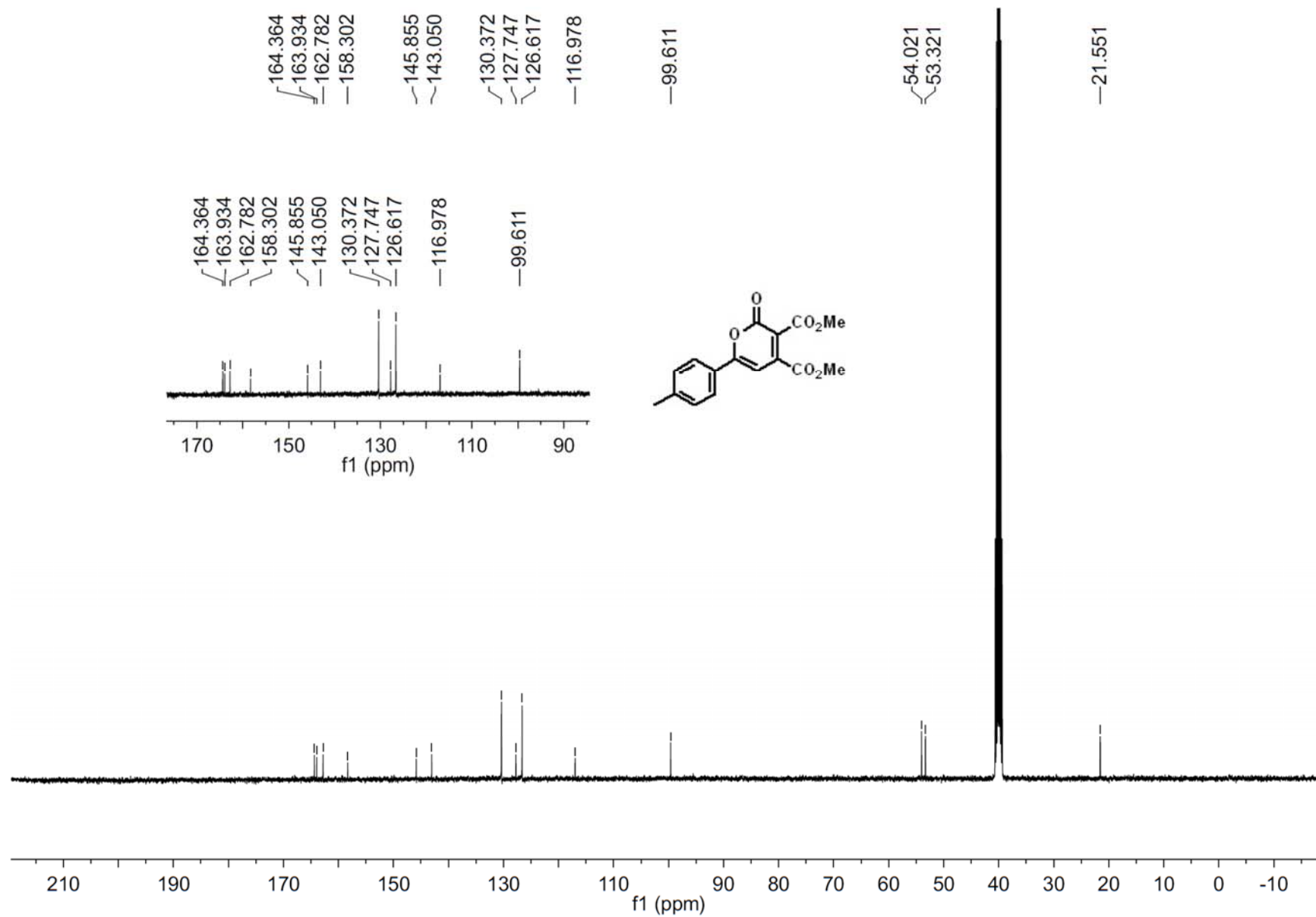
¹H NMR Spectrum of Compound 3c



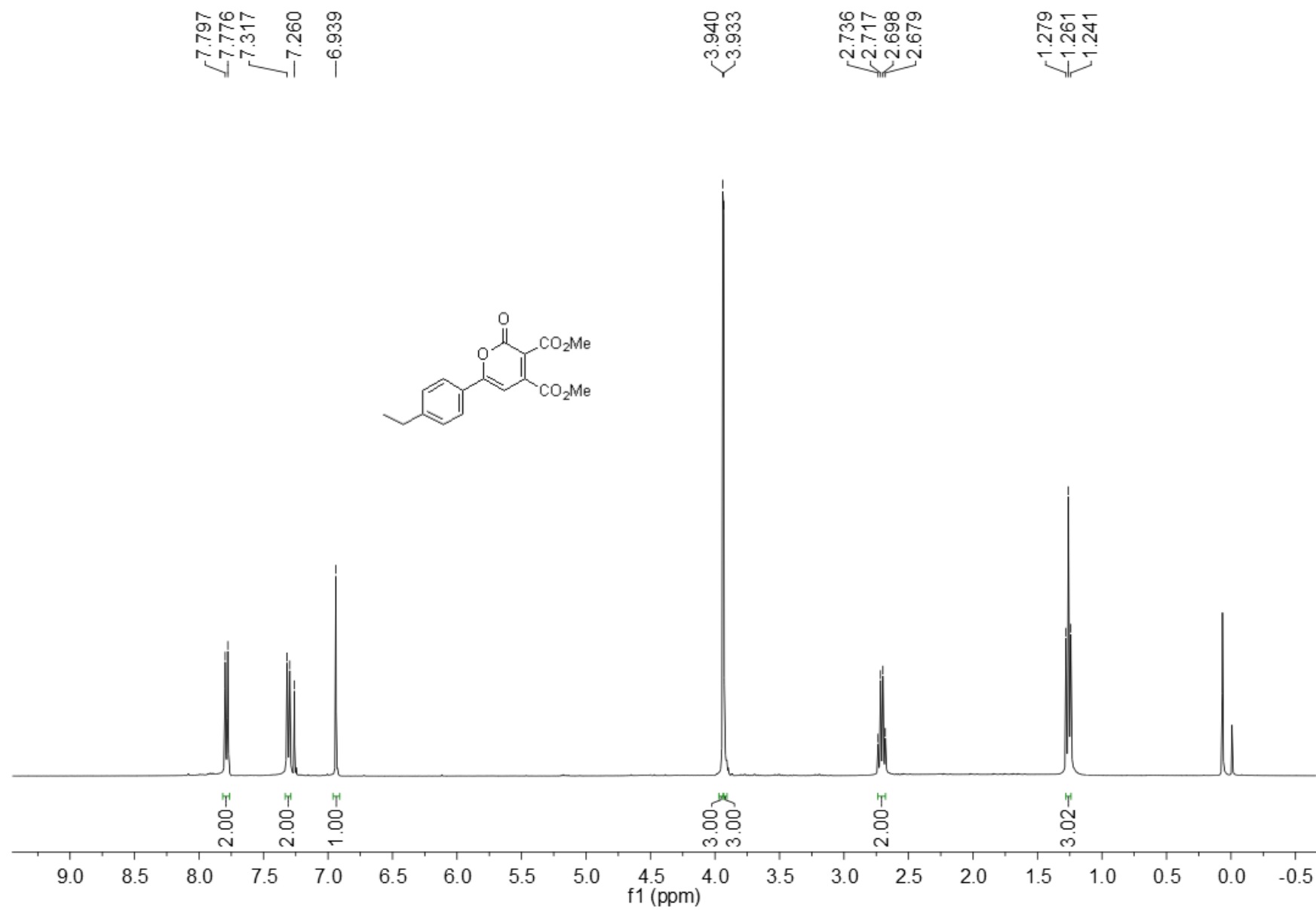
¹³C NMR Spectrum of Compound 3c



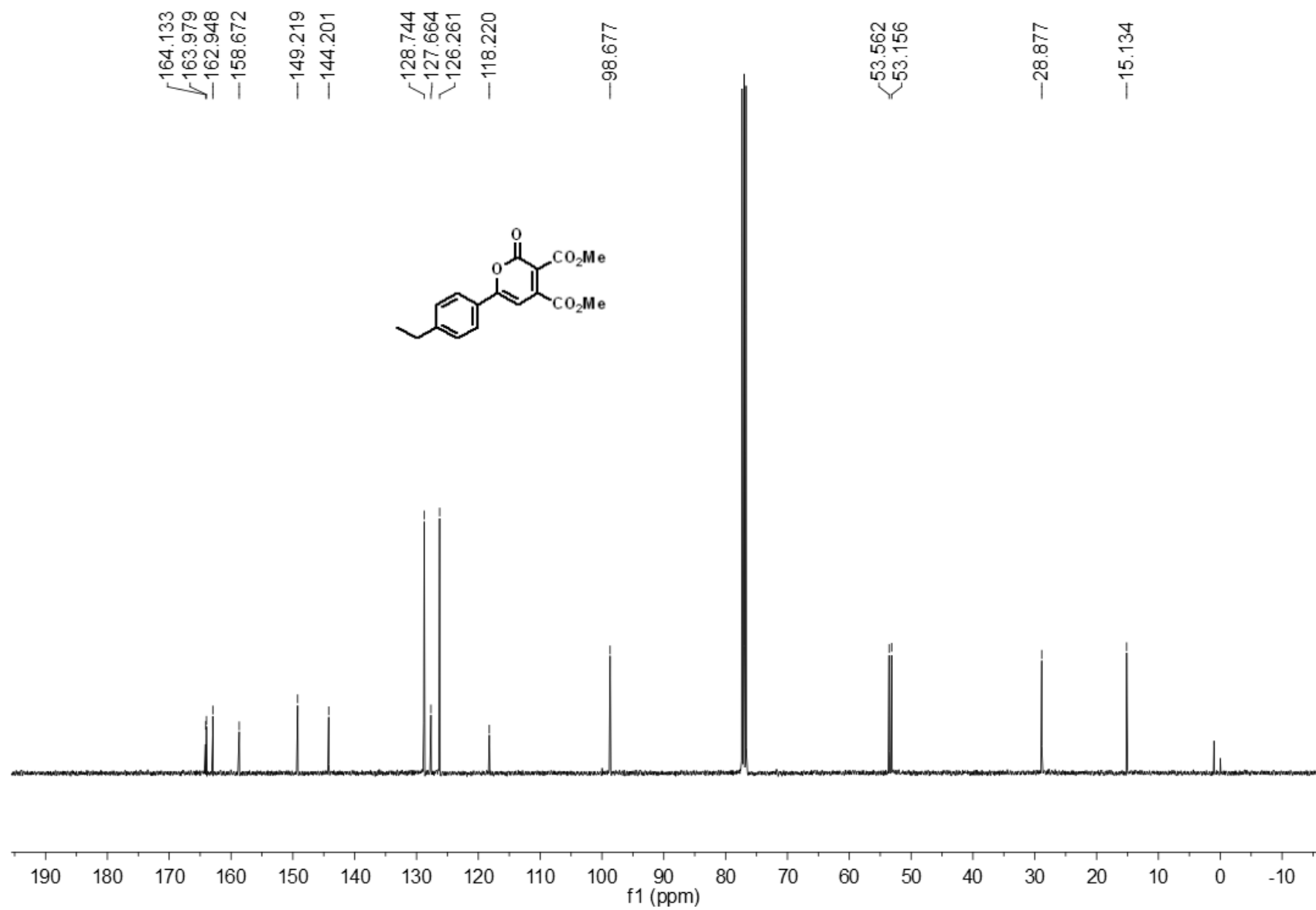
¹H NMR Spectrum of Compound 3d



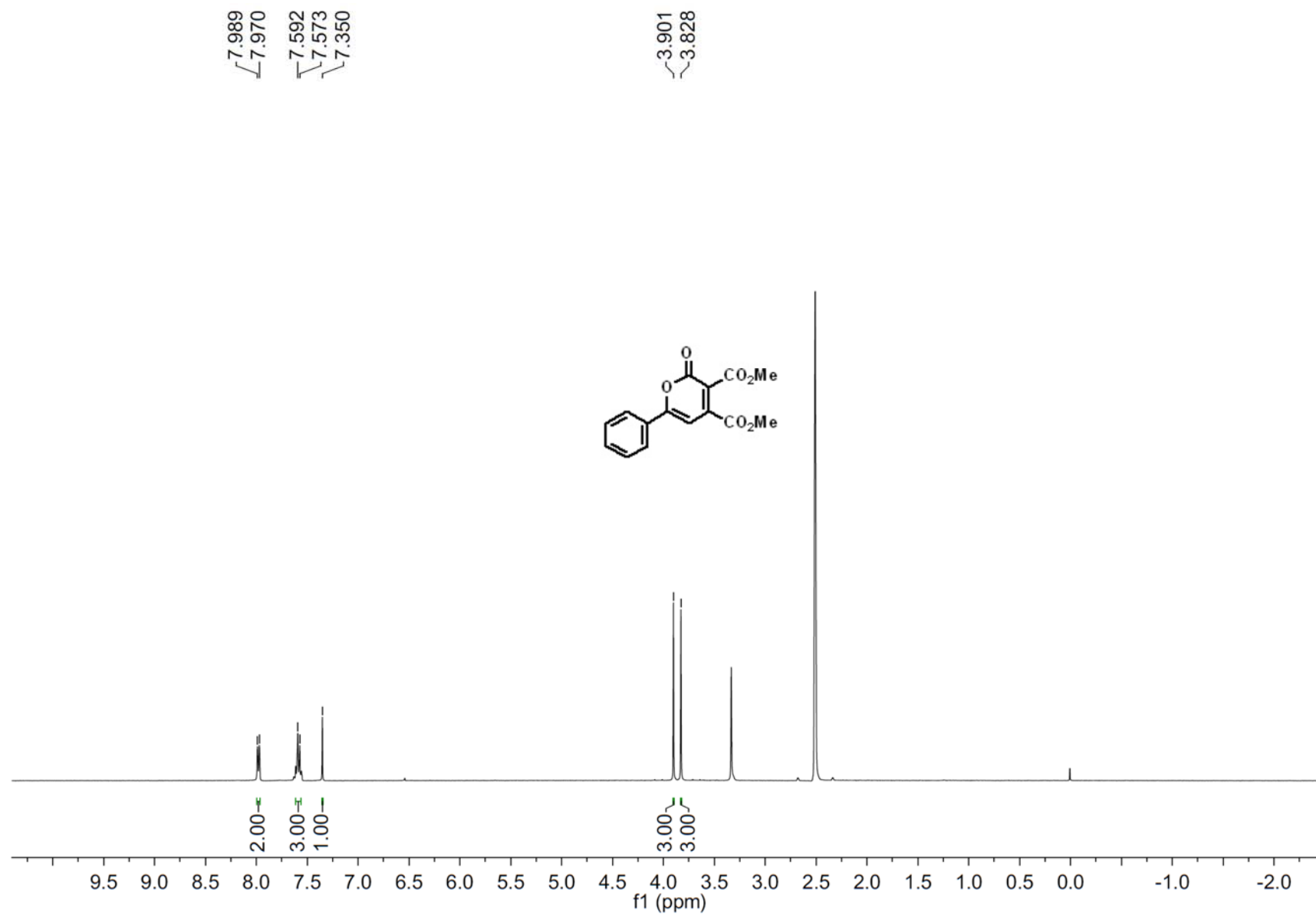
^{13}C NMR Spectrum of Compound 3d

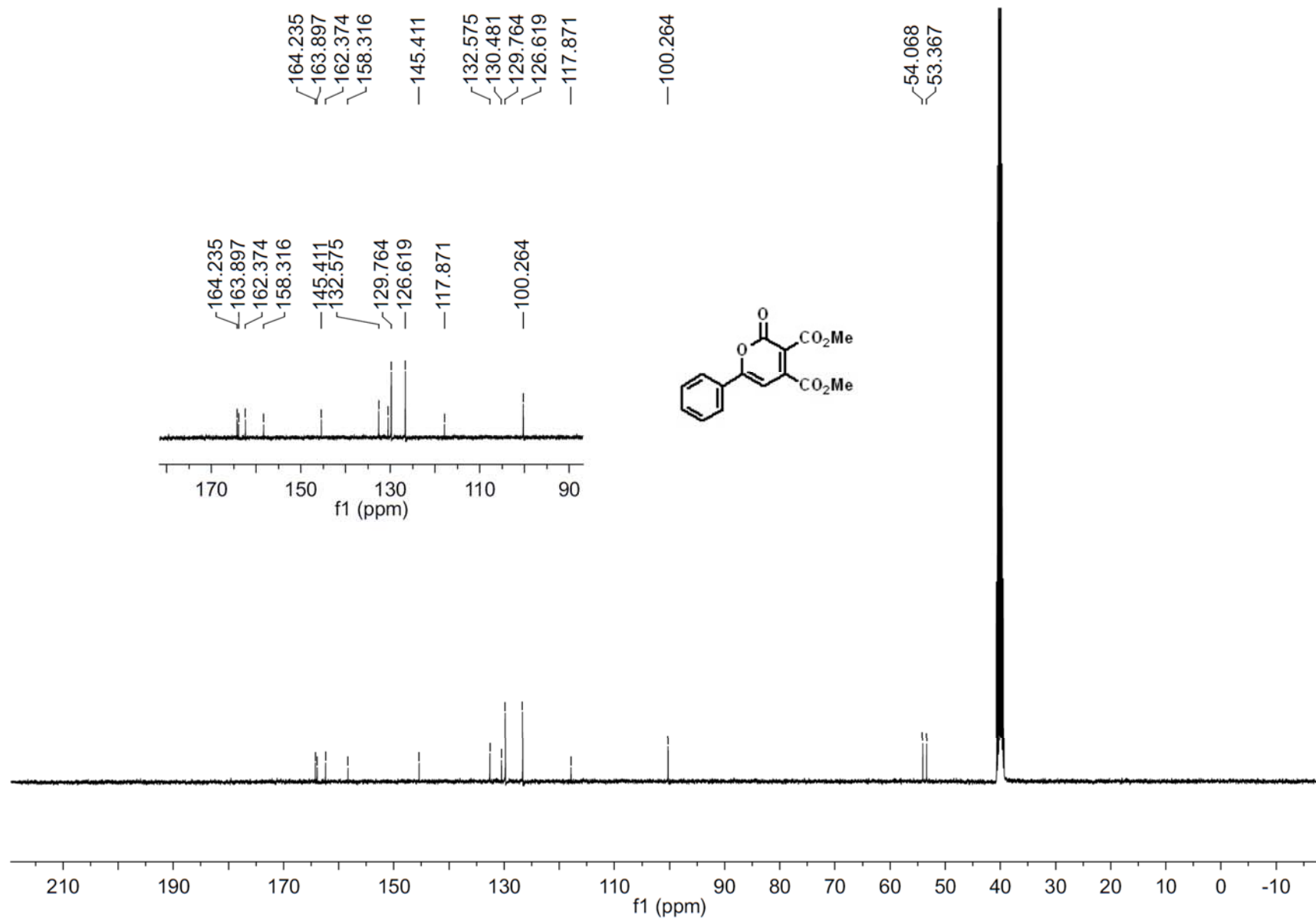


¹H NMR Spectrum of Compound 3e

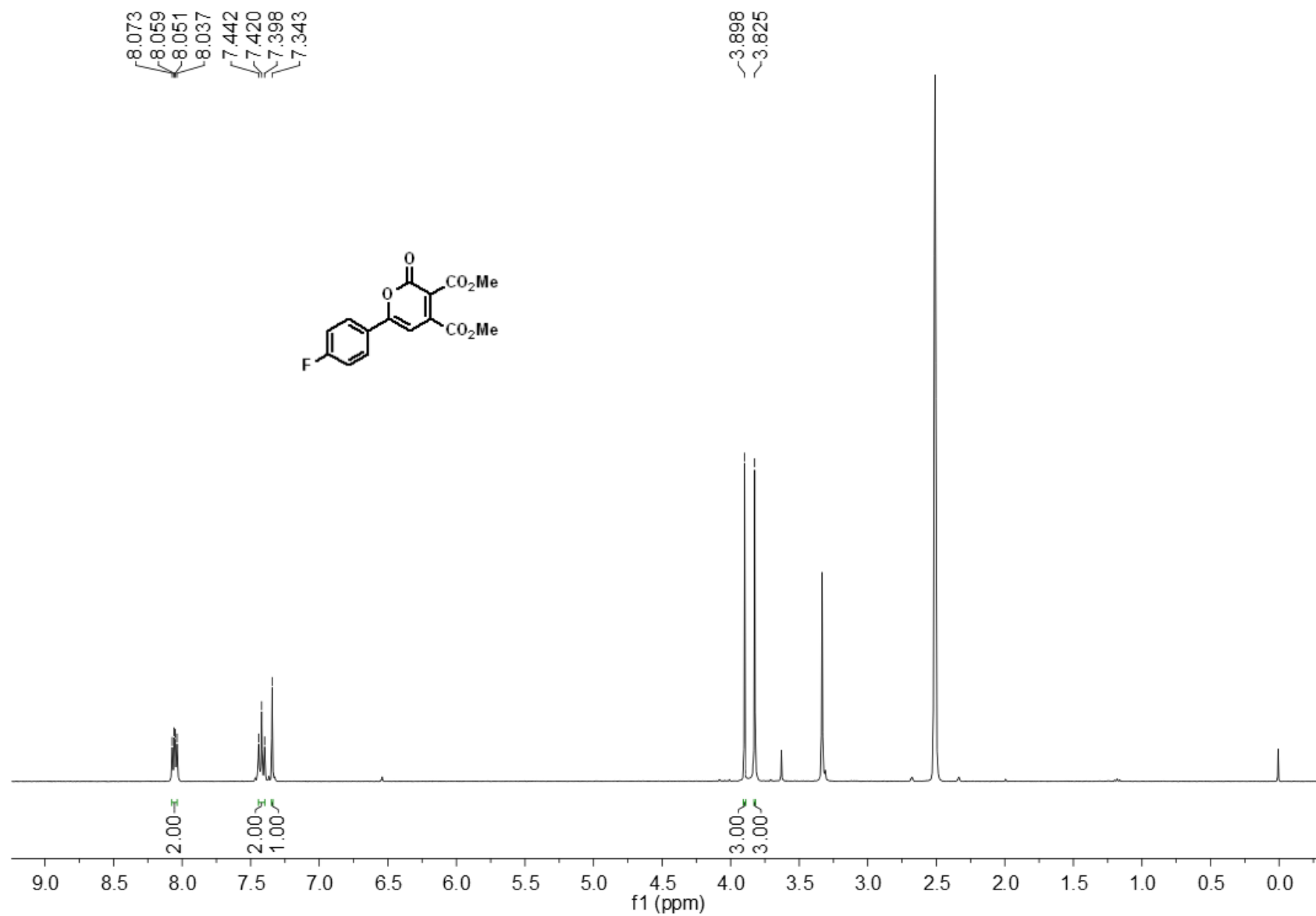


¹³C NMR Spectrum of Compound 3e

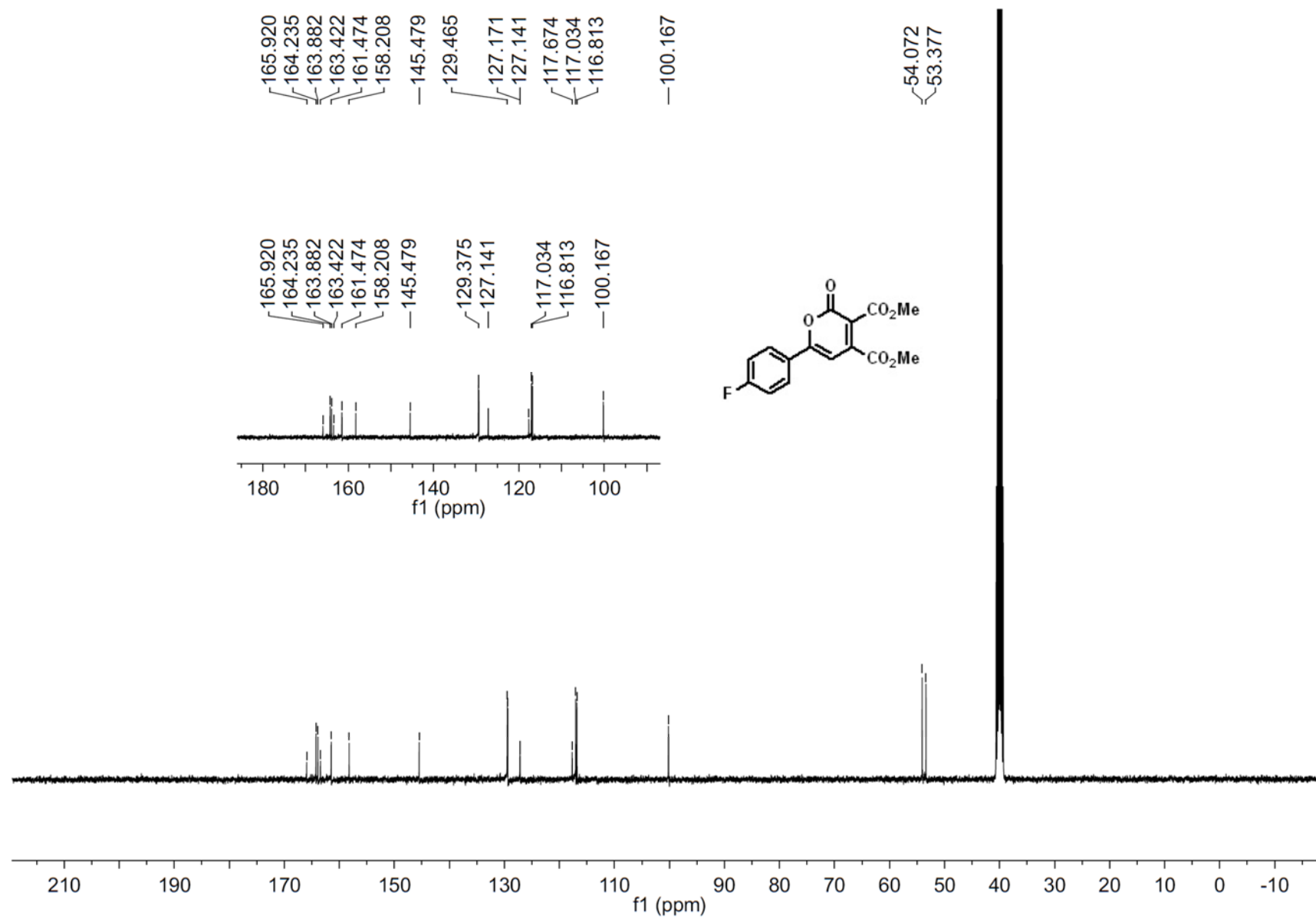




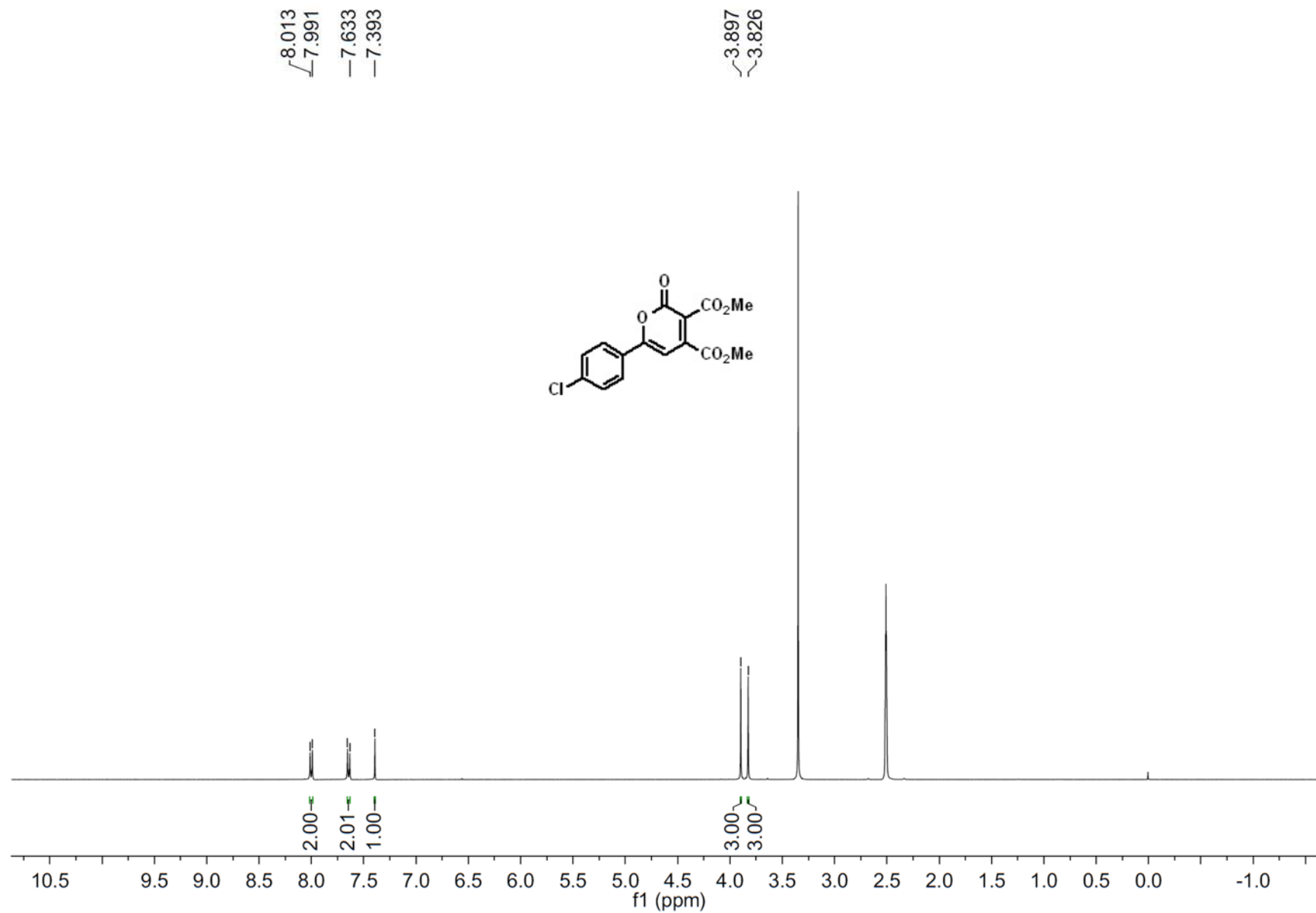
^{13}C NMR Spectrum of Compound 3f

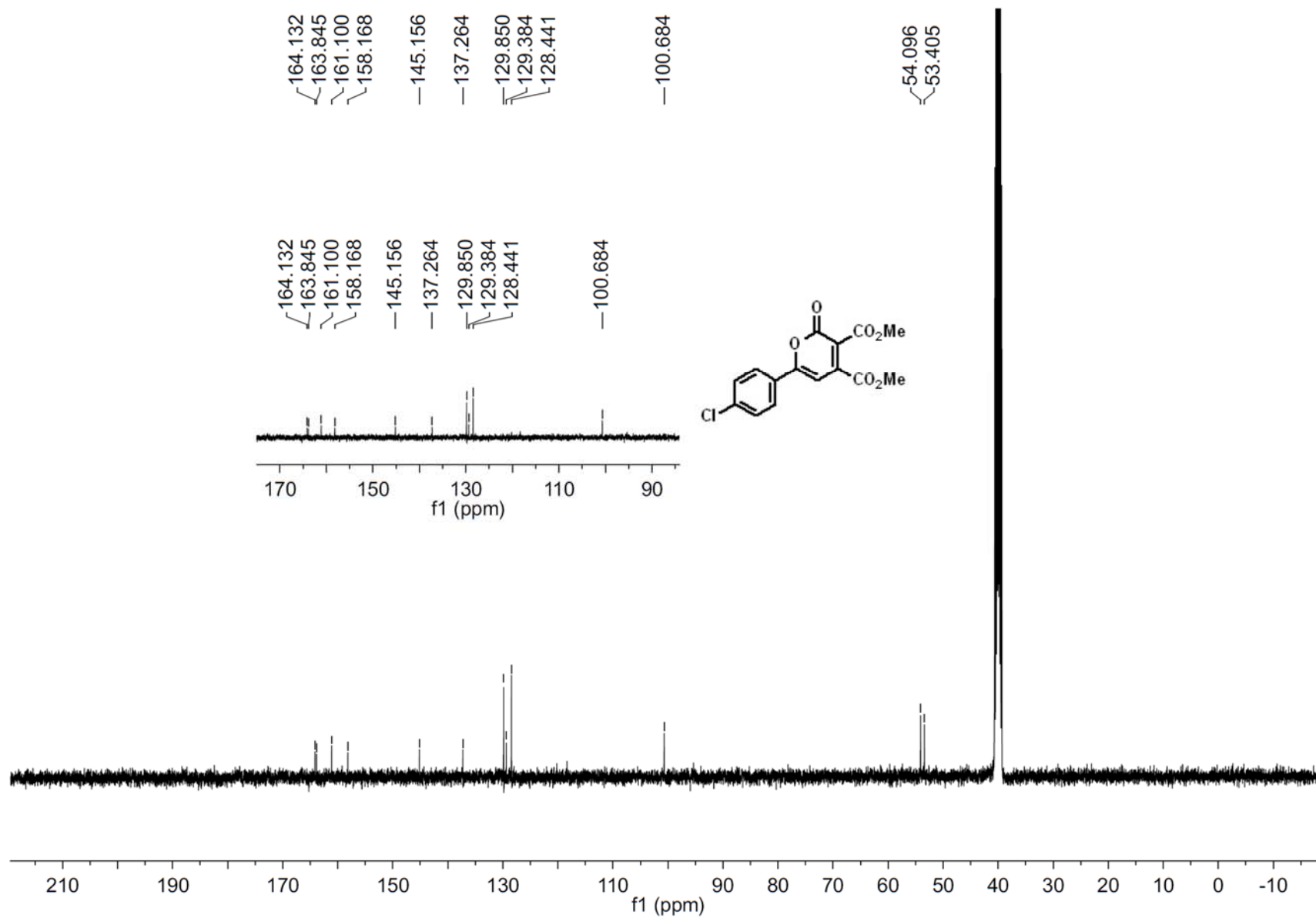


¹H NMR Spectrum of Compound 3g

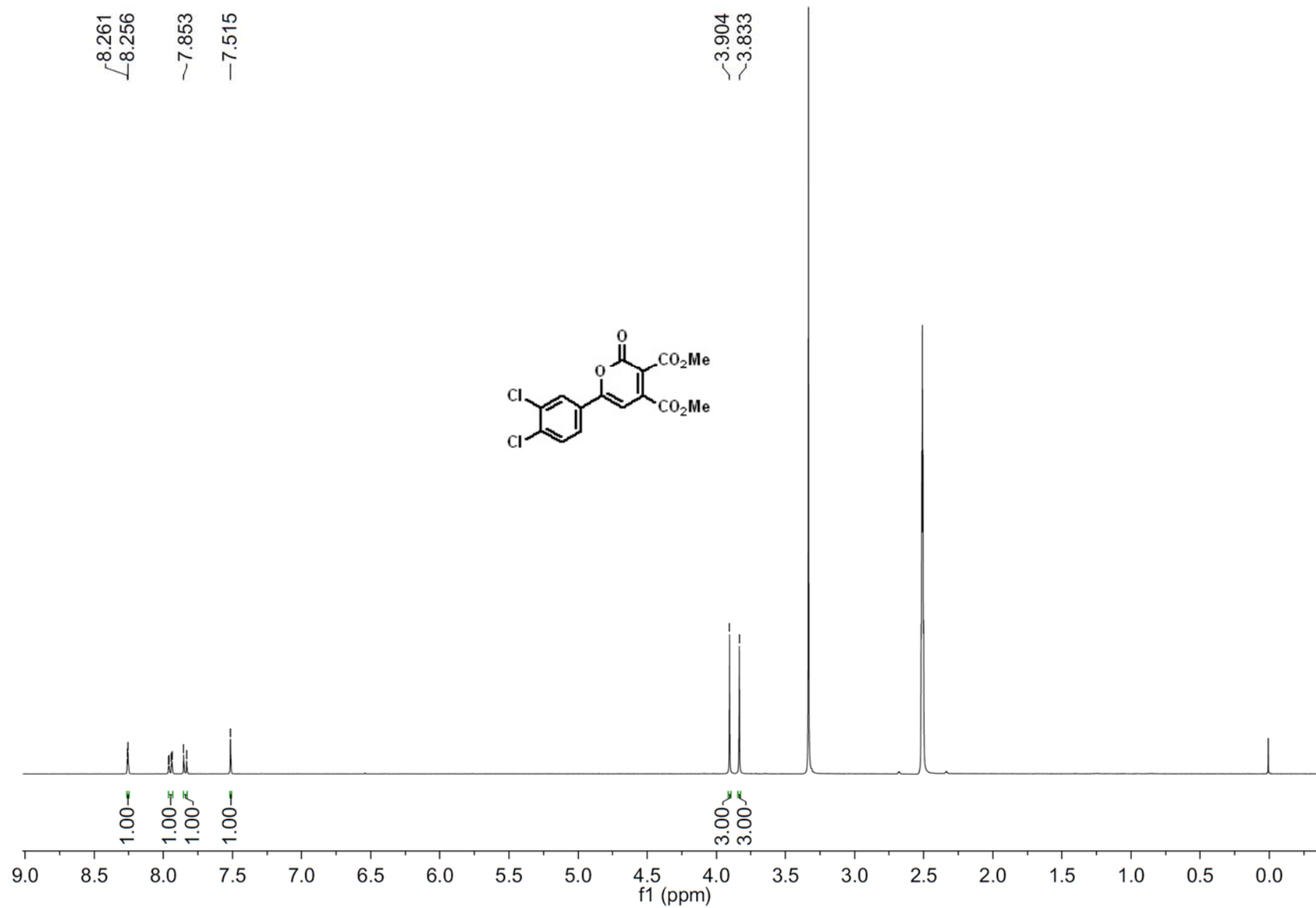


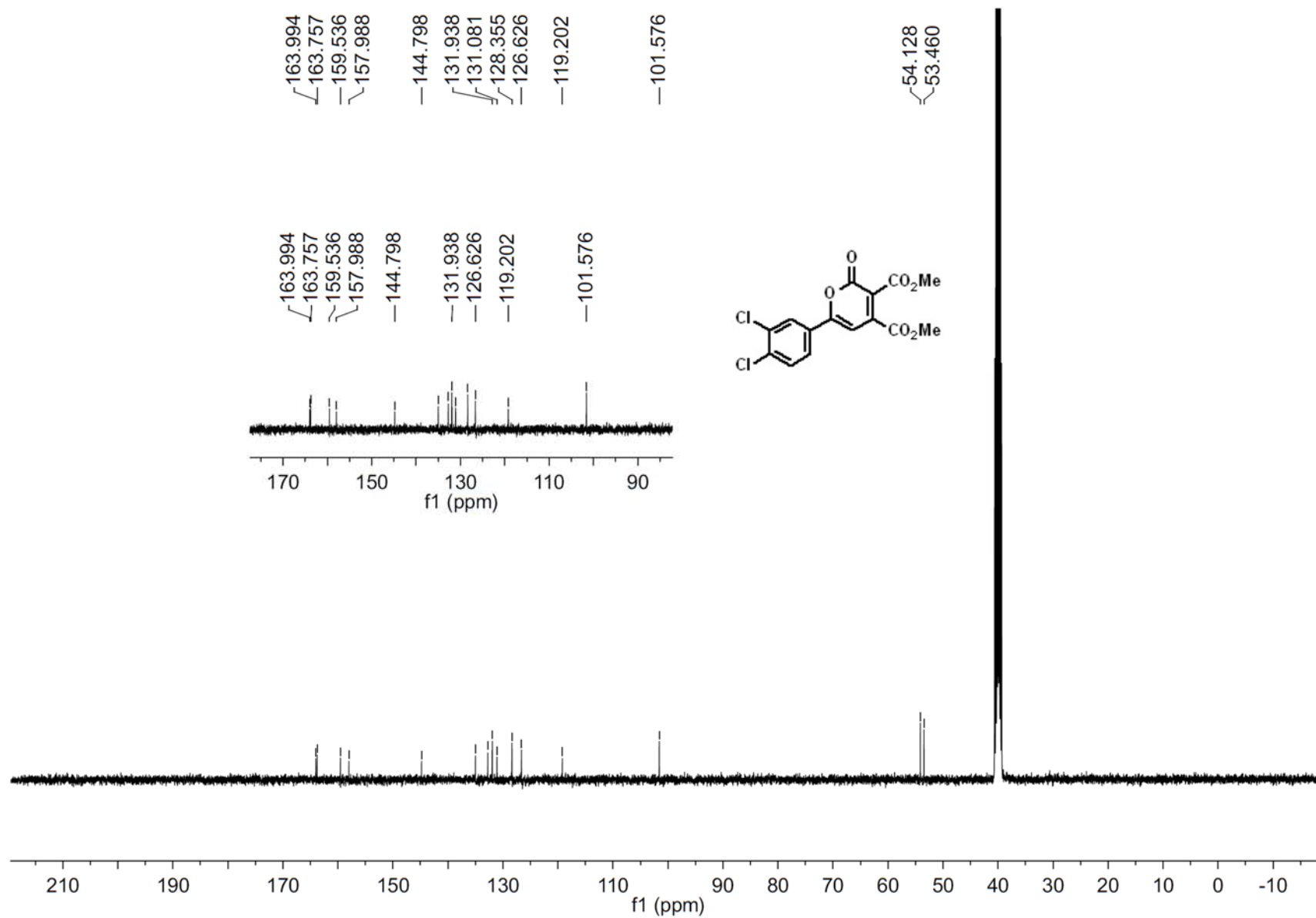
¹³C NMR Spectrum of Compound 3g



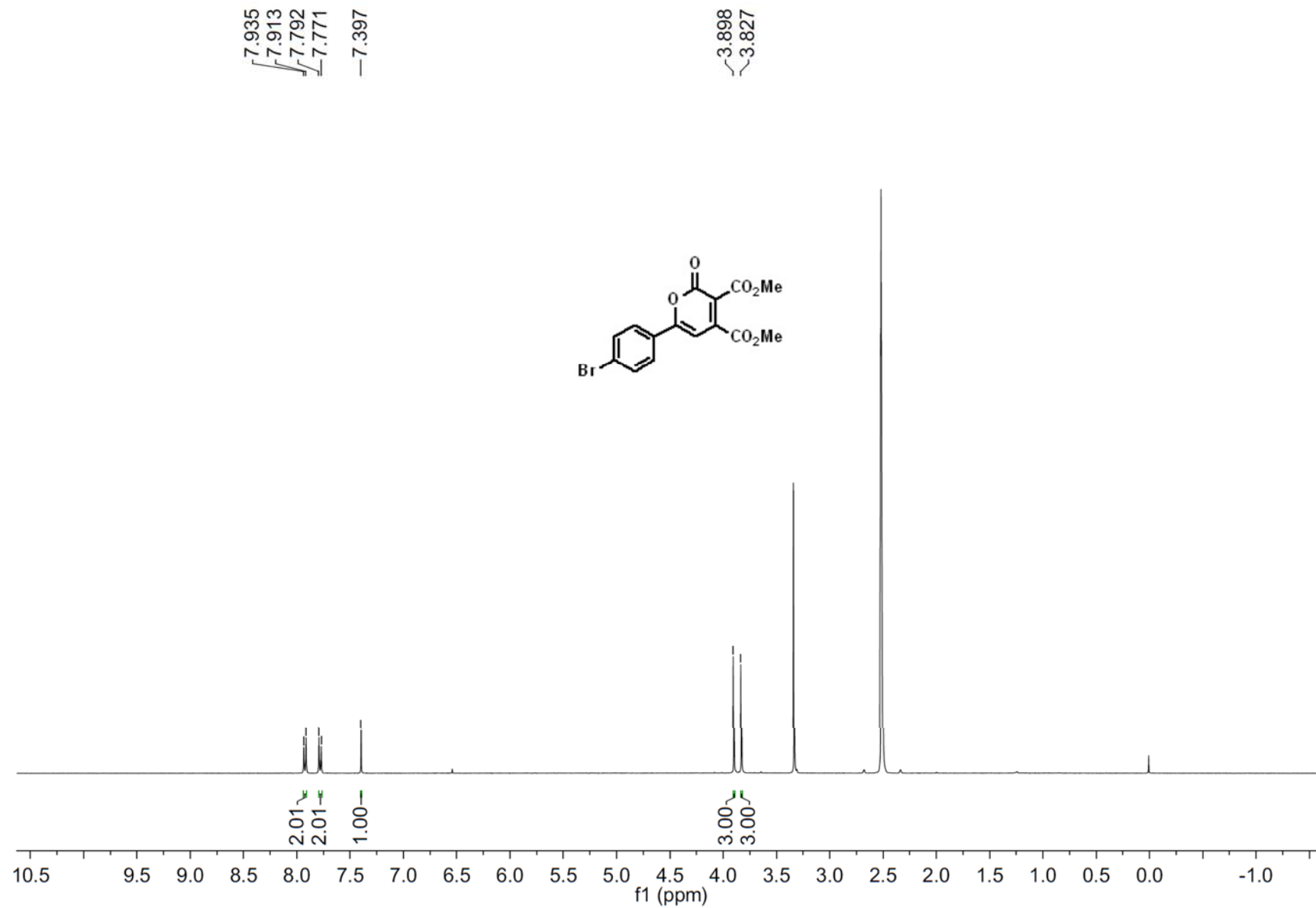


^{13}C NMR Spectrum of Compound 3h

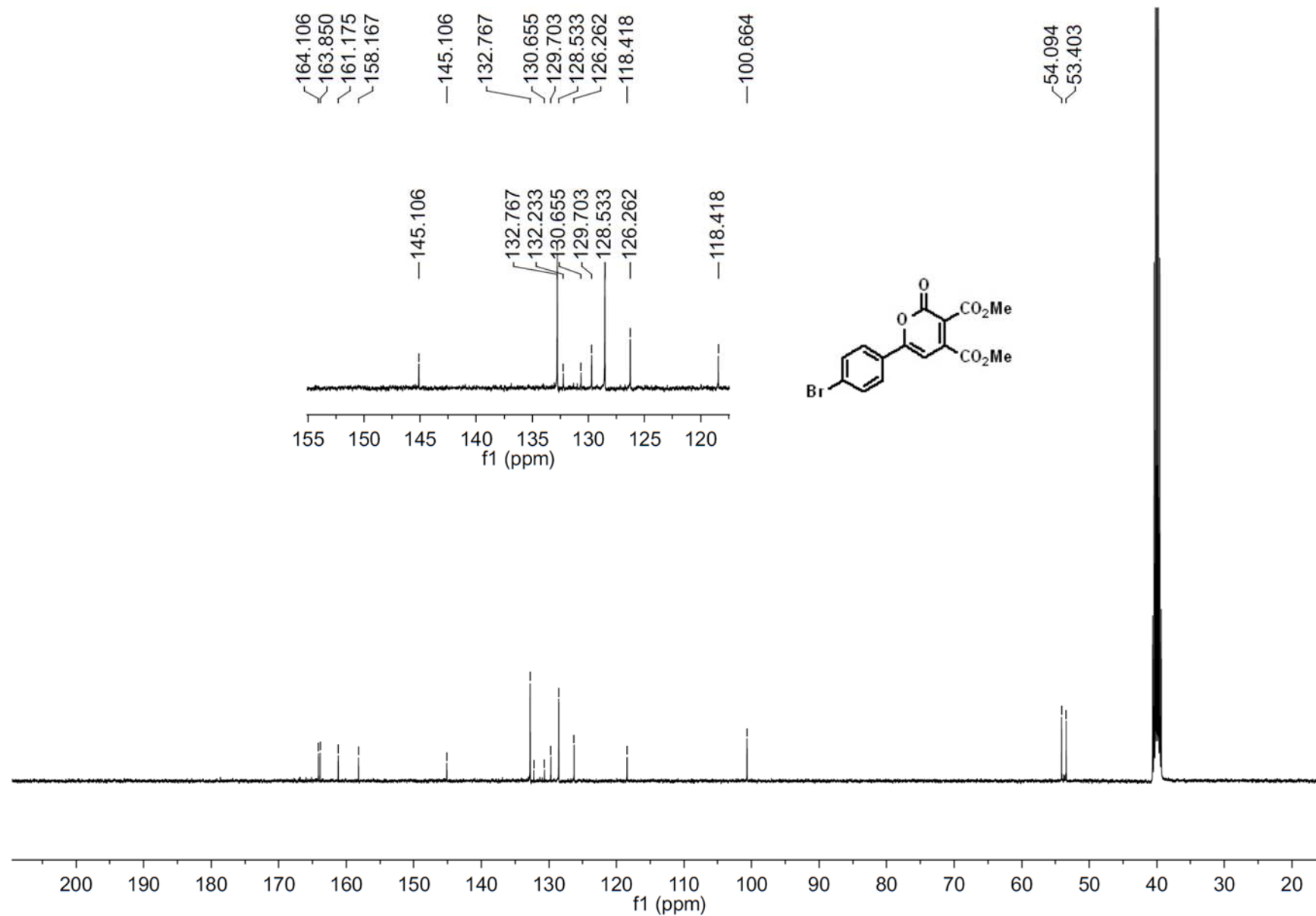




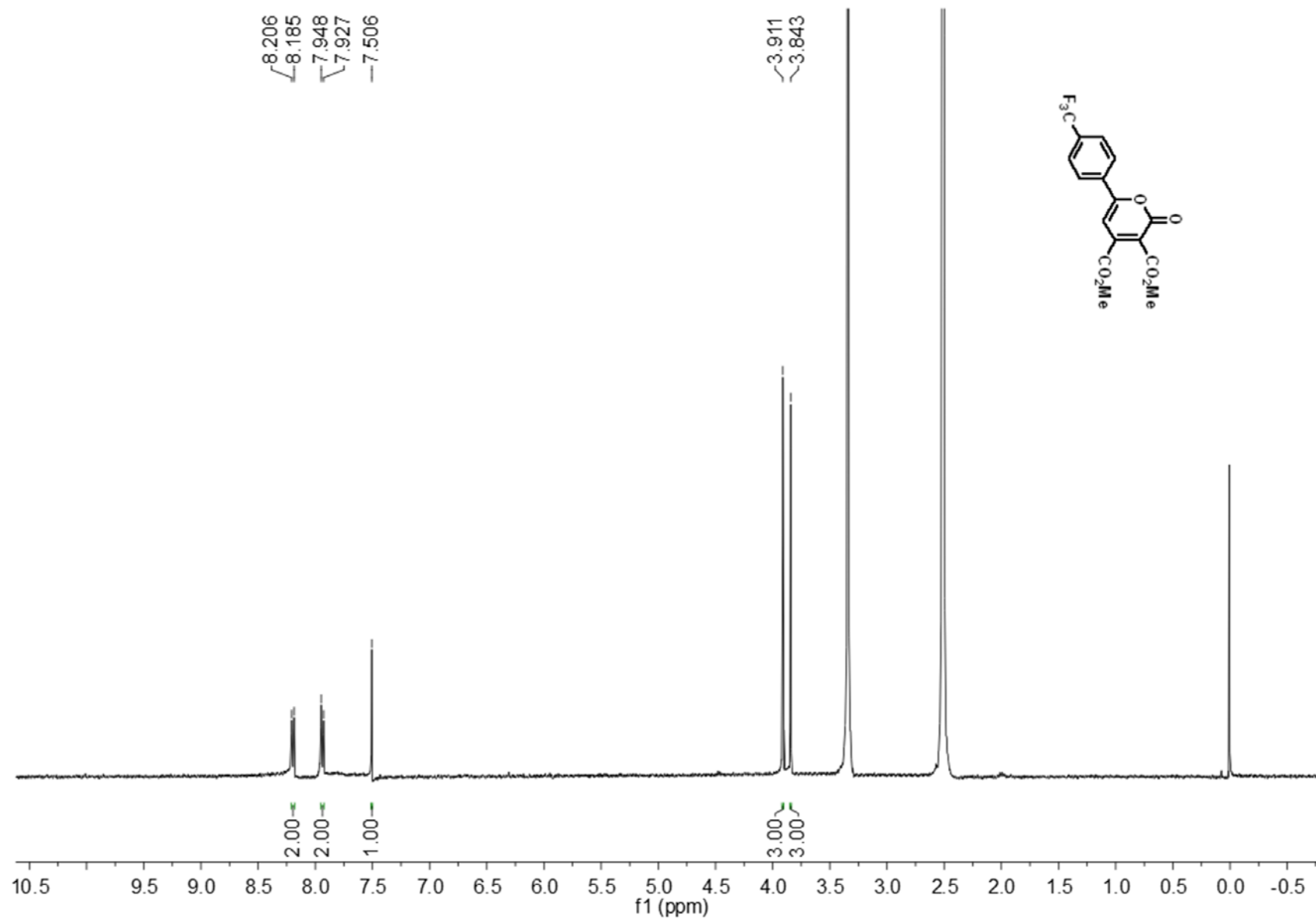
^{13}C NMR Spectrum of Compound 3i



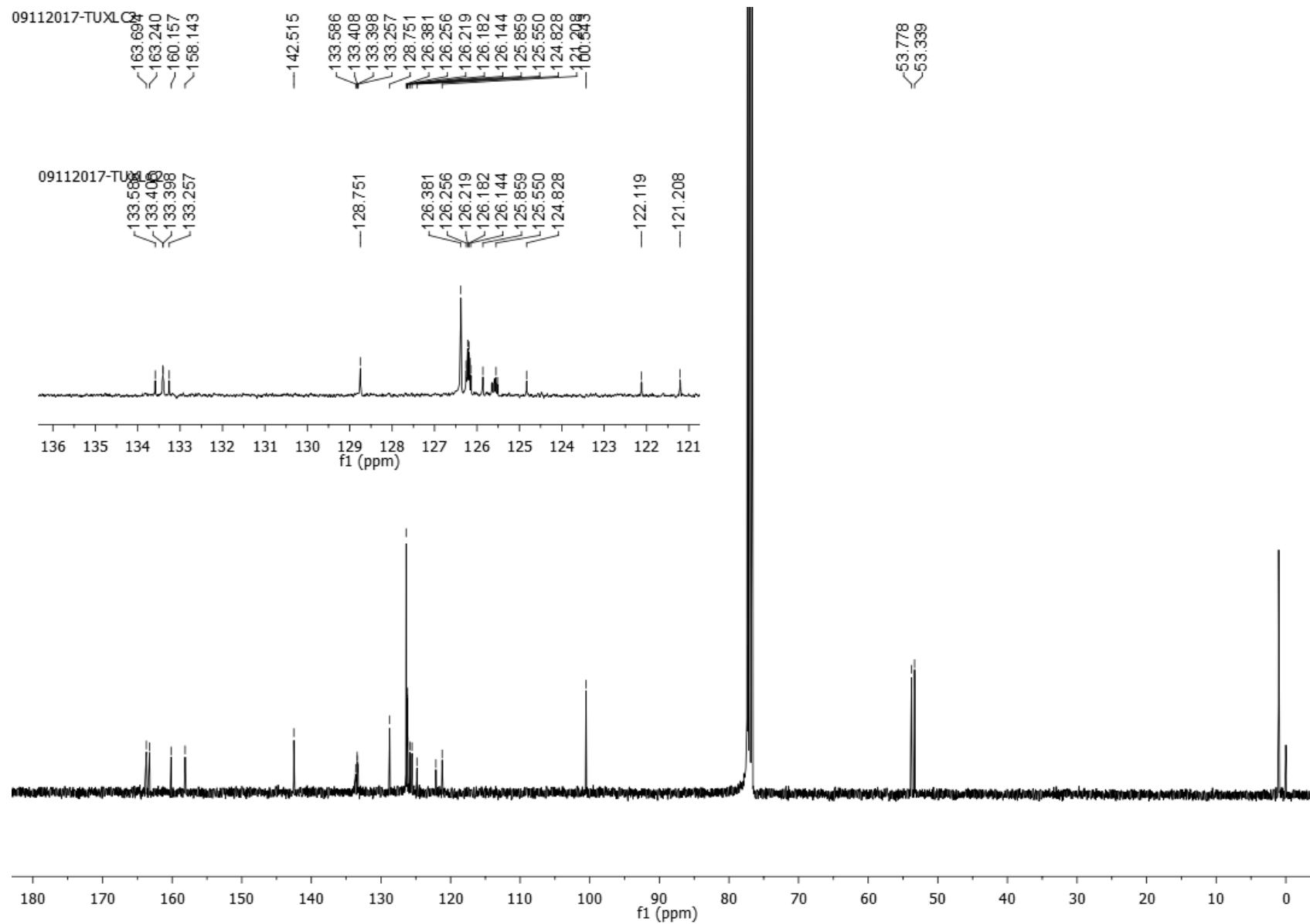
¹H NMR Spectrum of Compound 3j



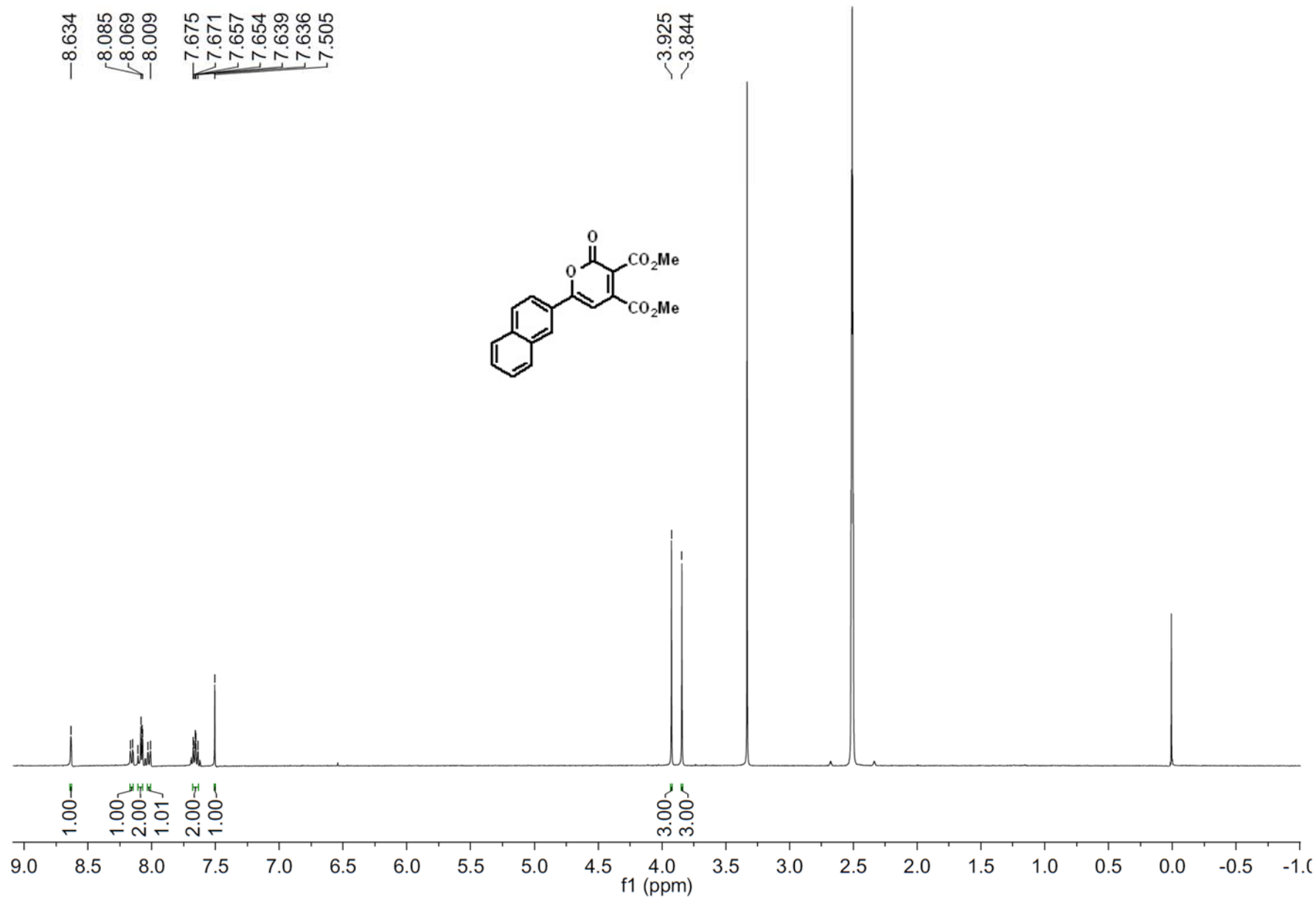
¹³C NMR Spectrum of Compound 3j



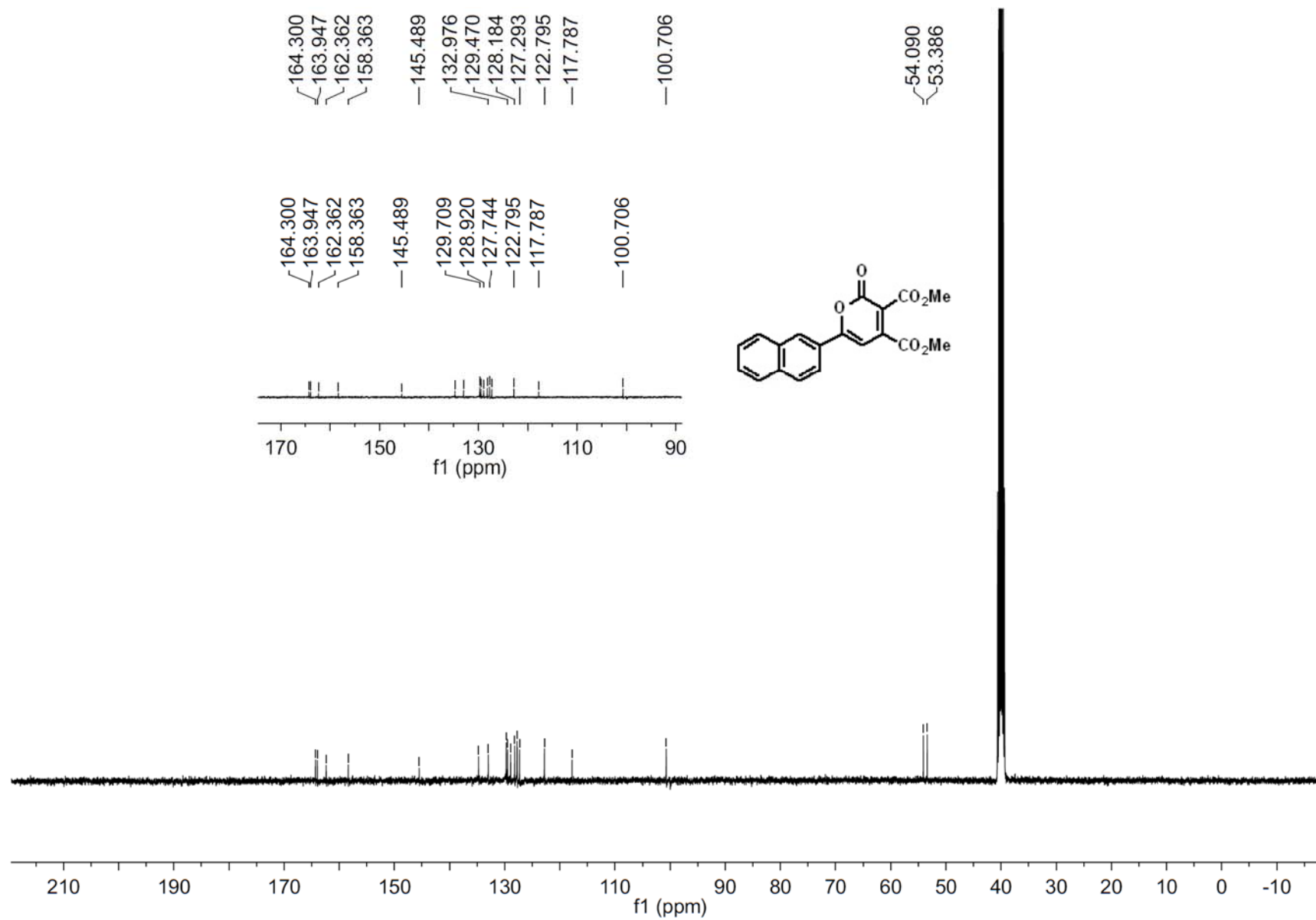
¹H NMR Spectrum of Compound 3k



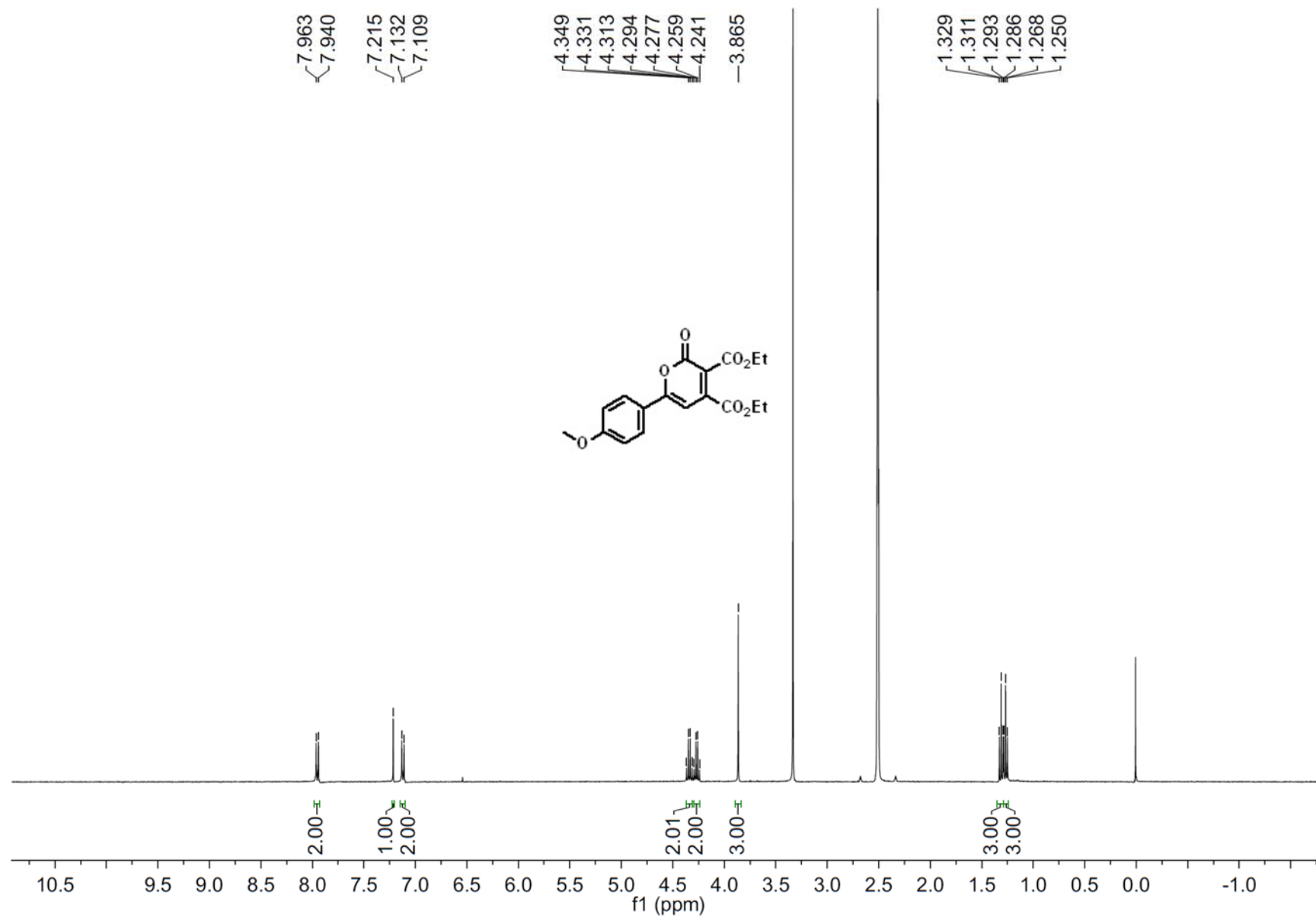
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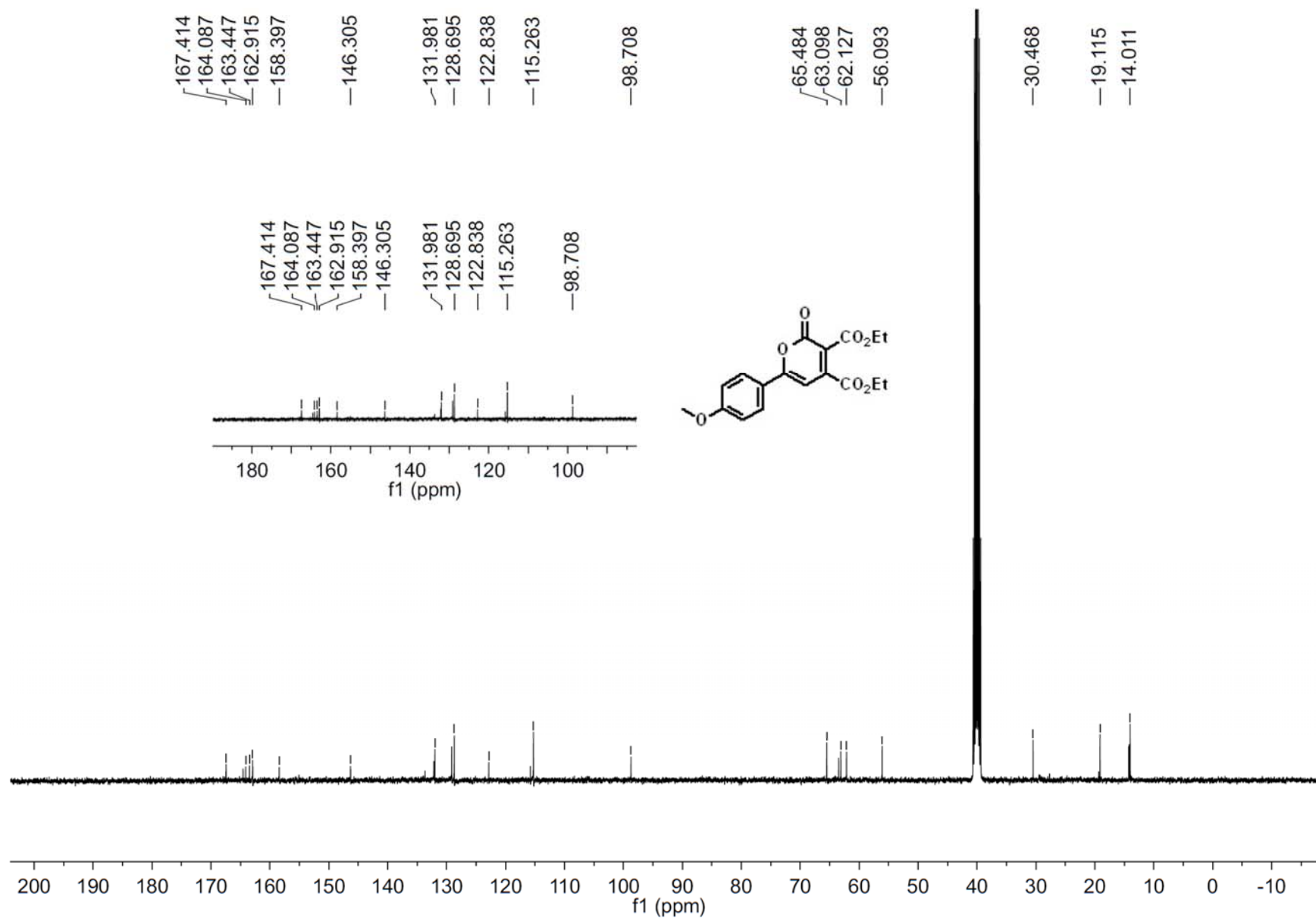
¹H NMR Spectrum of Compound 3l



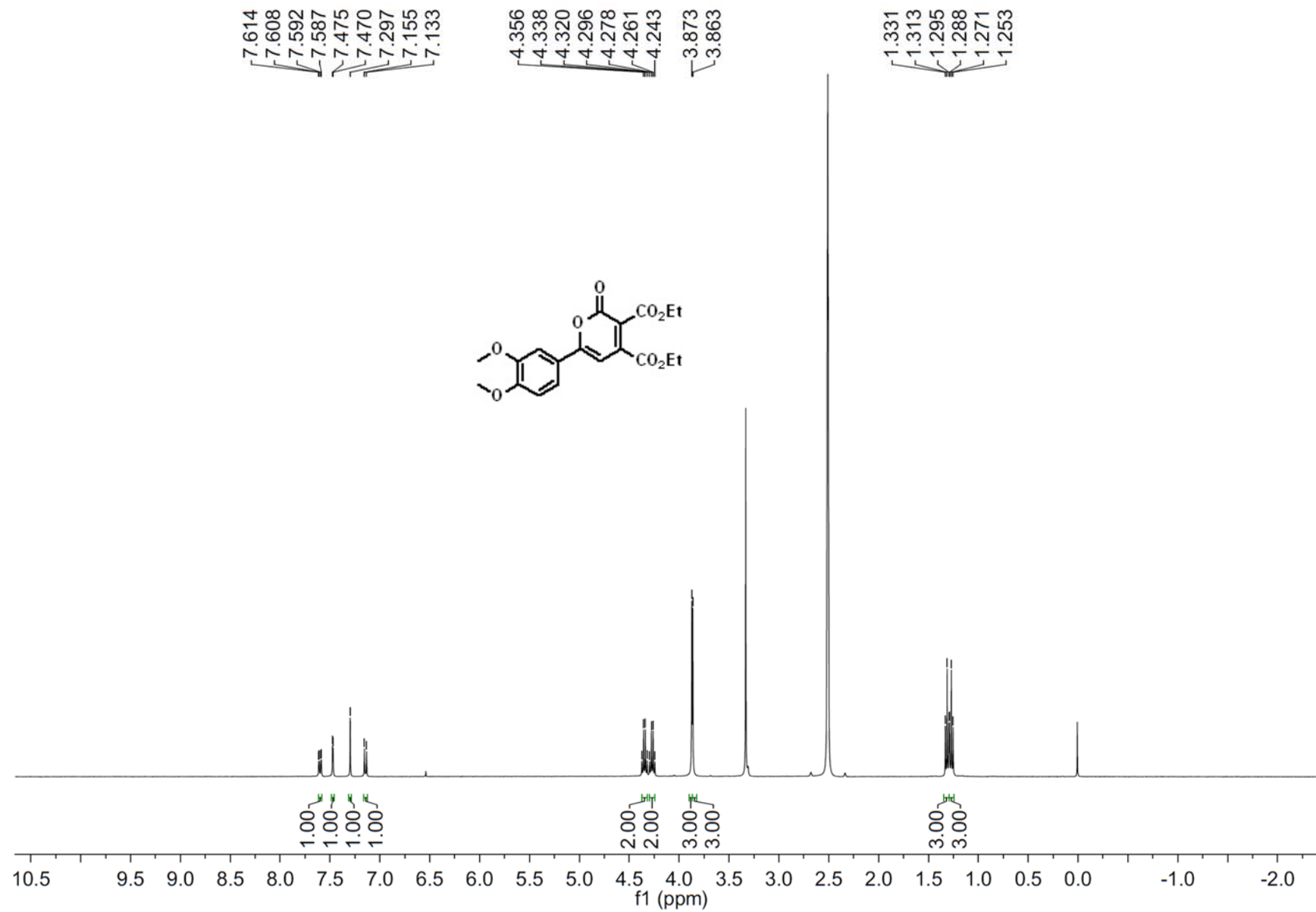
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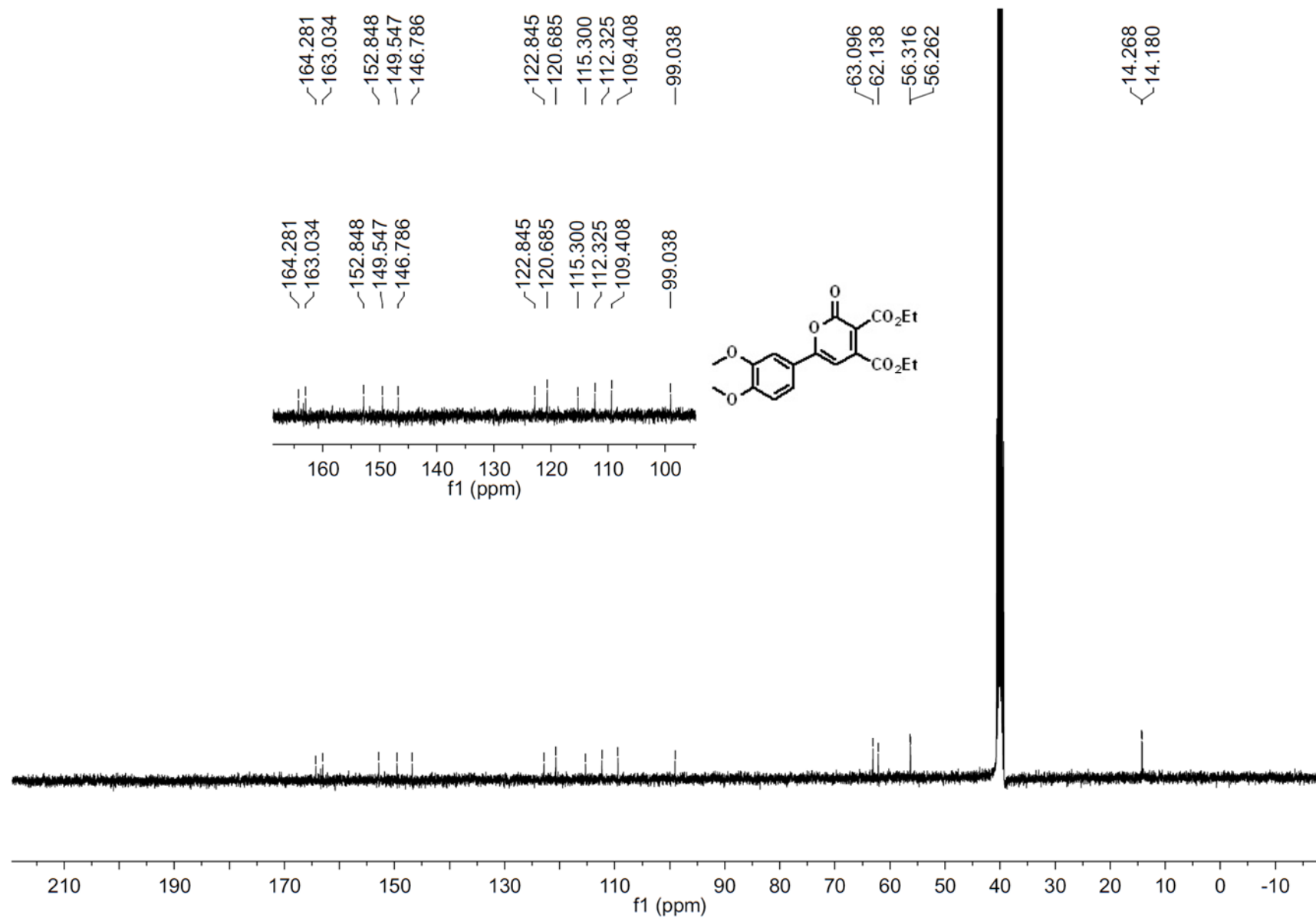
¹H NMR Spectrum of Compound 3m



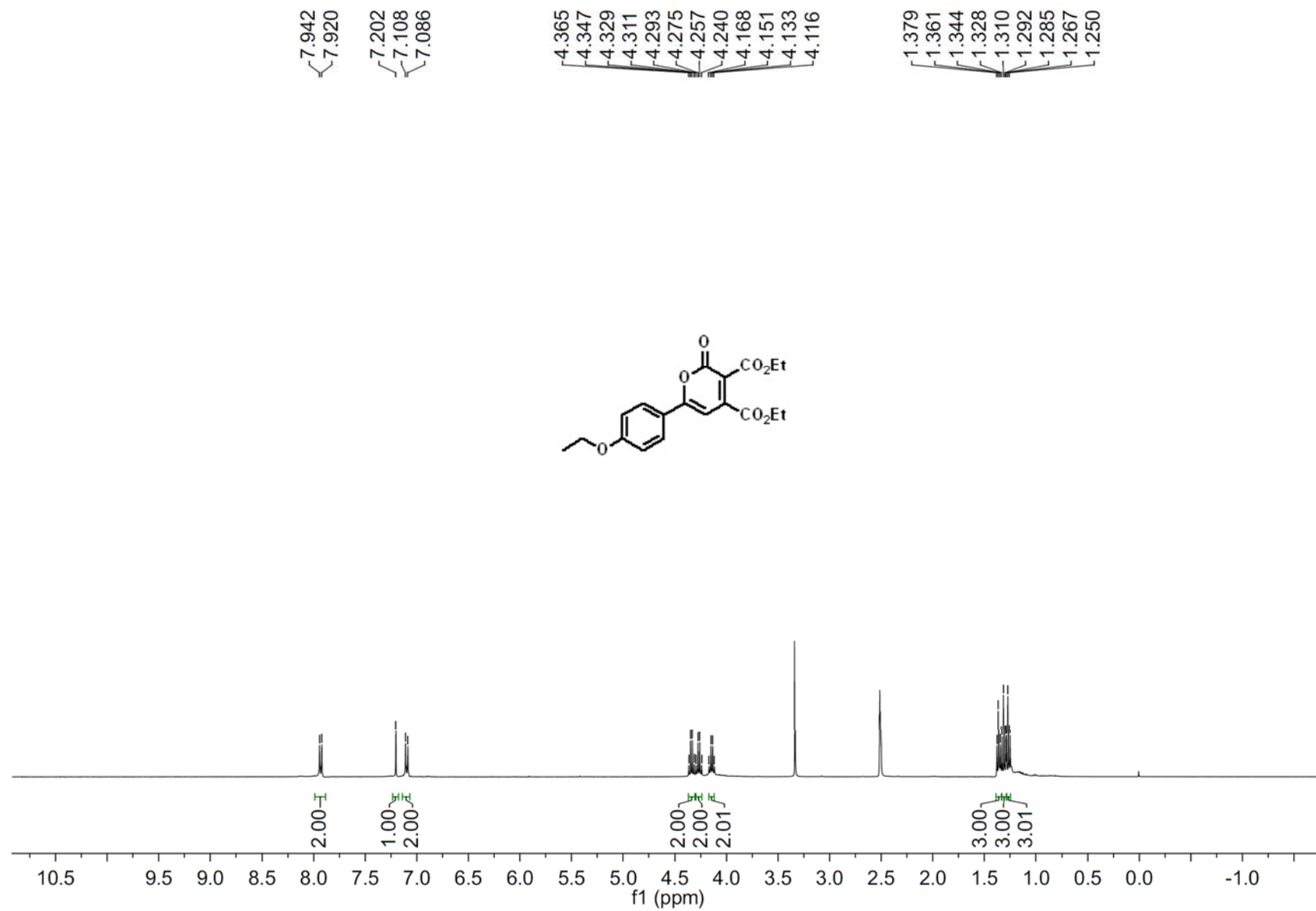
¹³C NMR Spectrum of Compound 3m



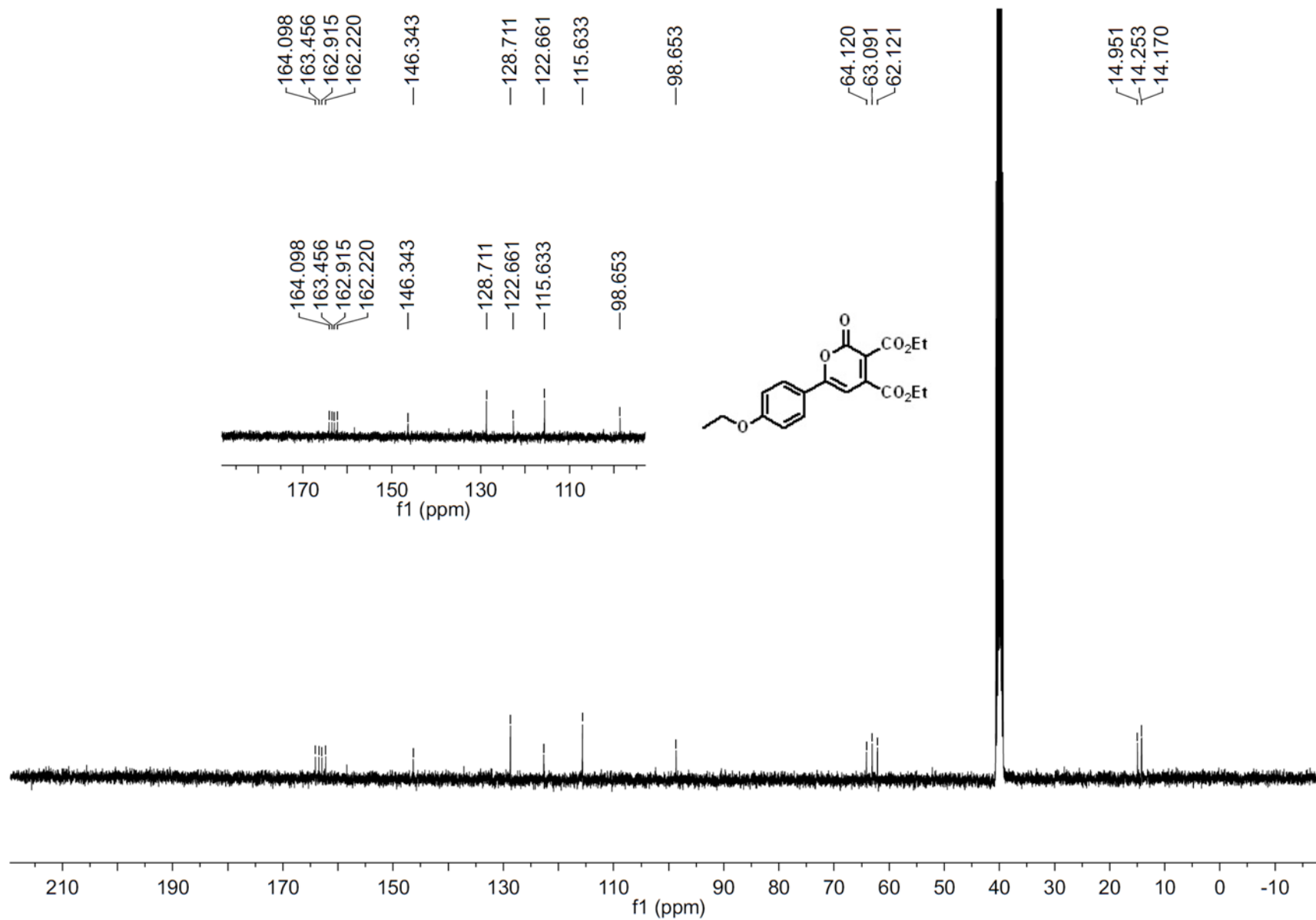
¹H NMR Spectrum of Compound 3n



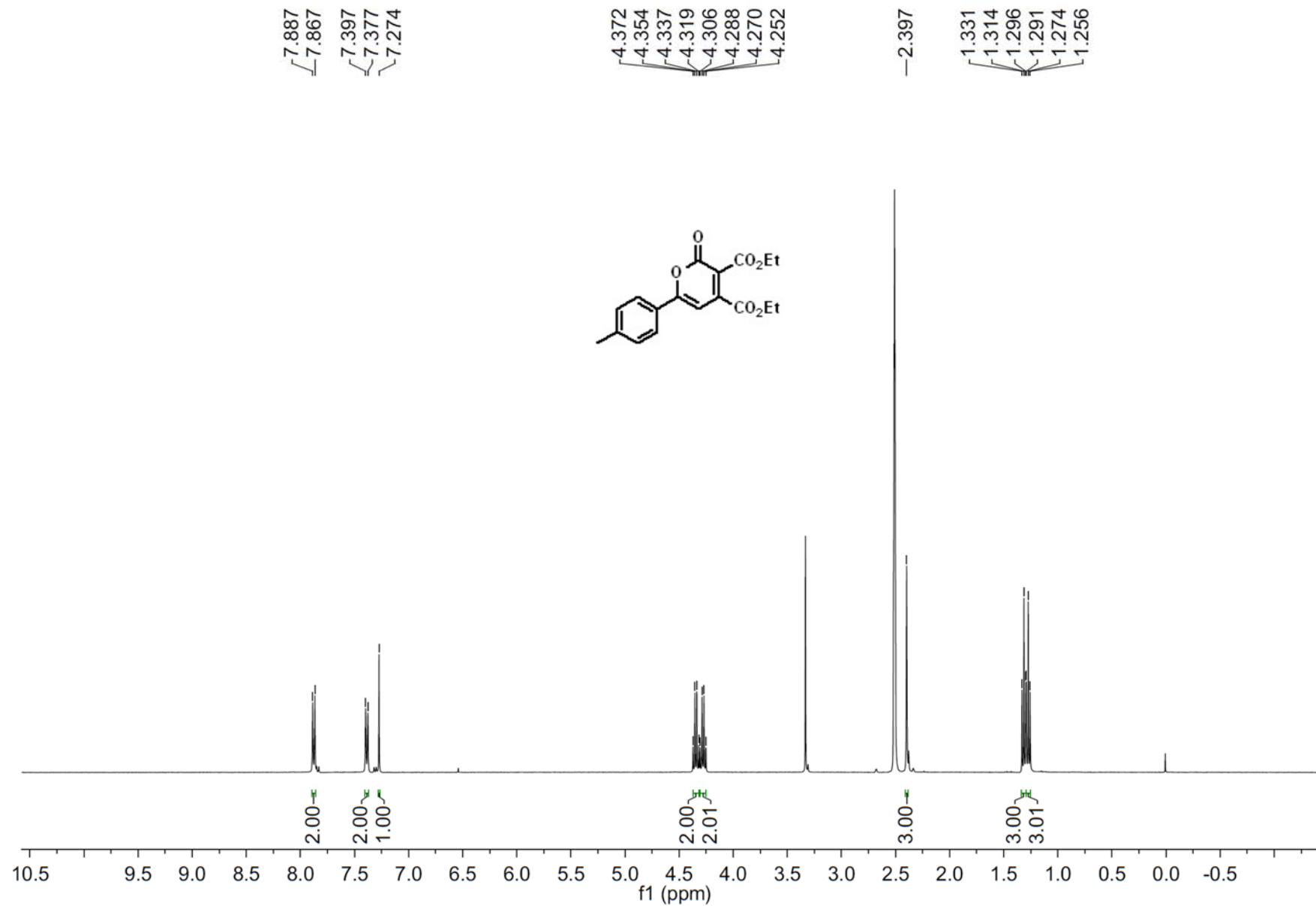
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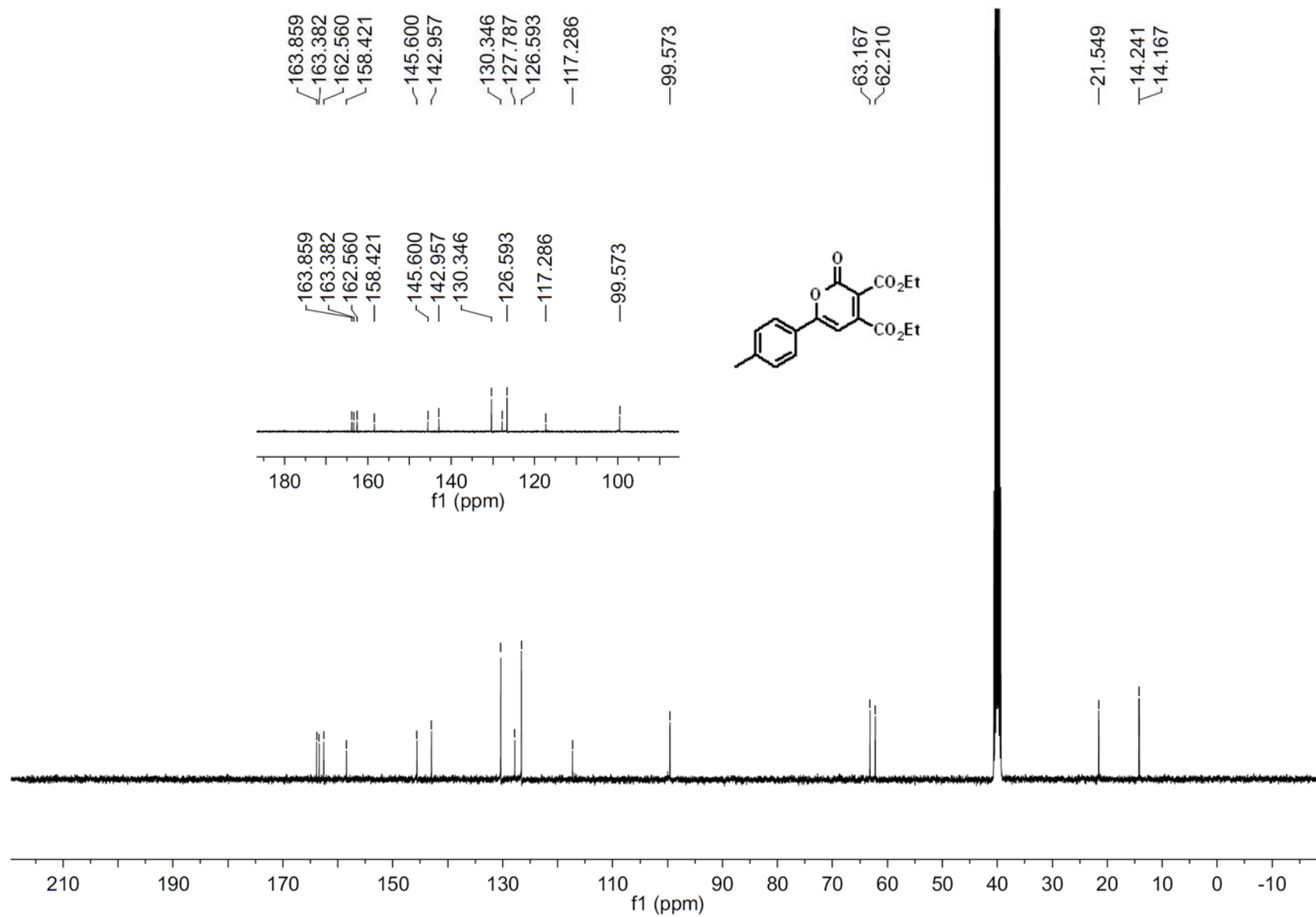
¹H NMR Spectrum of Compound 3o



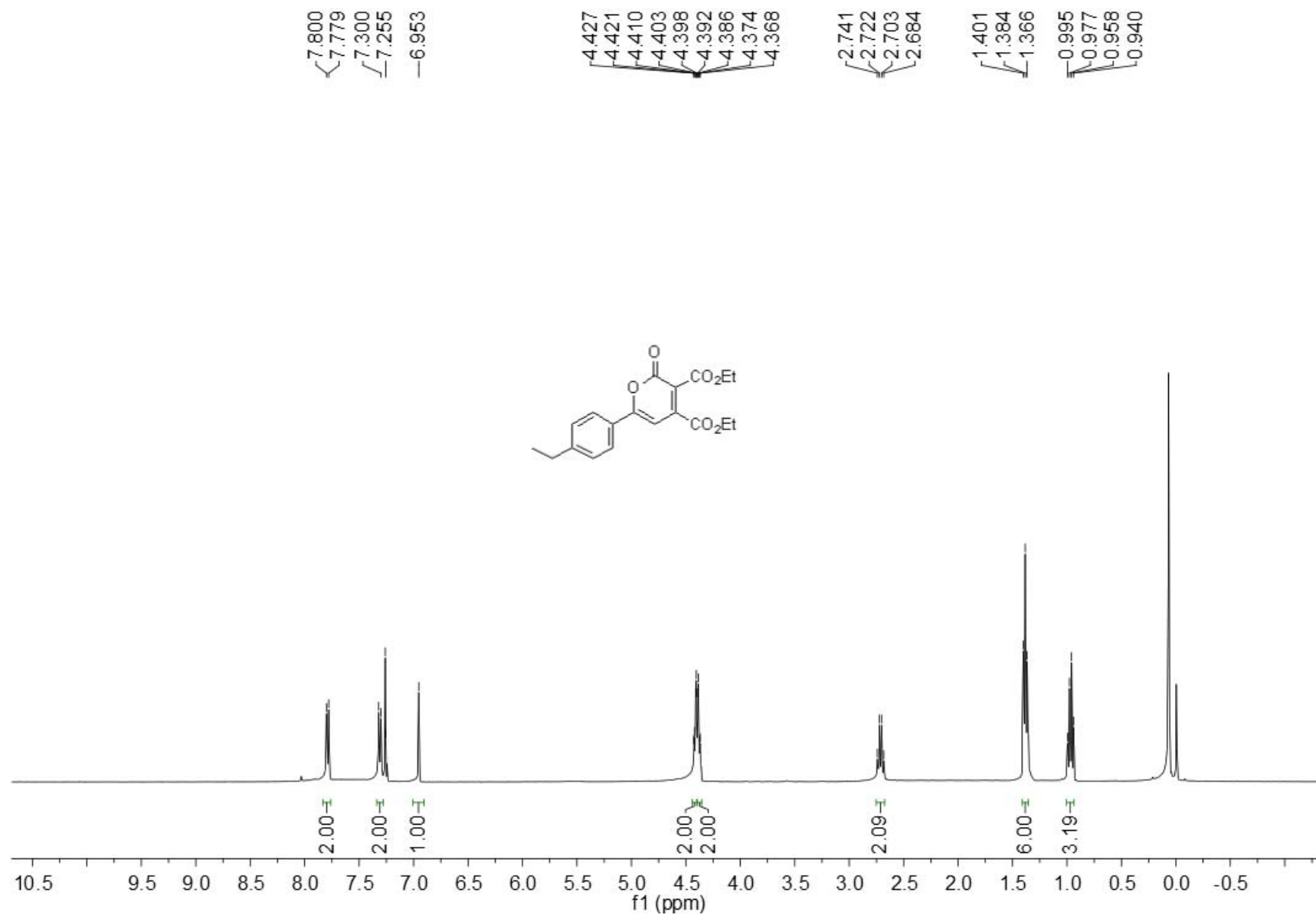
^{13}C NMR Spectrum of Compound 3o



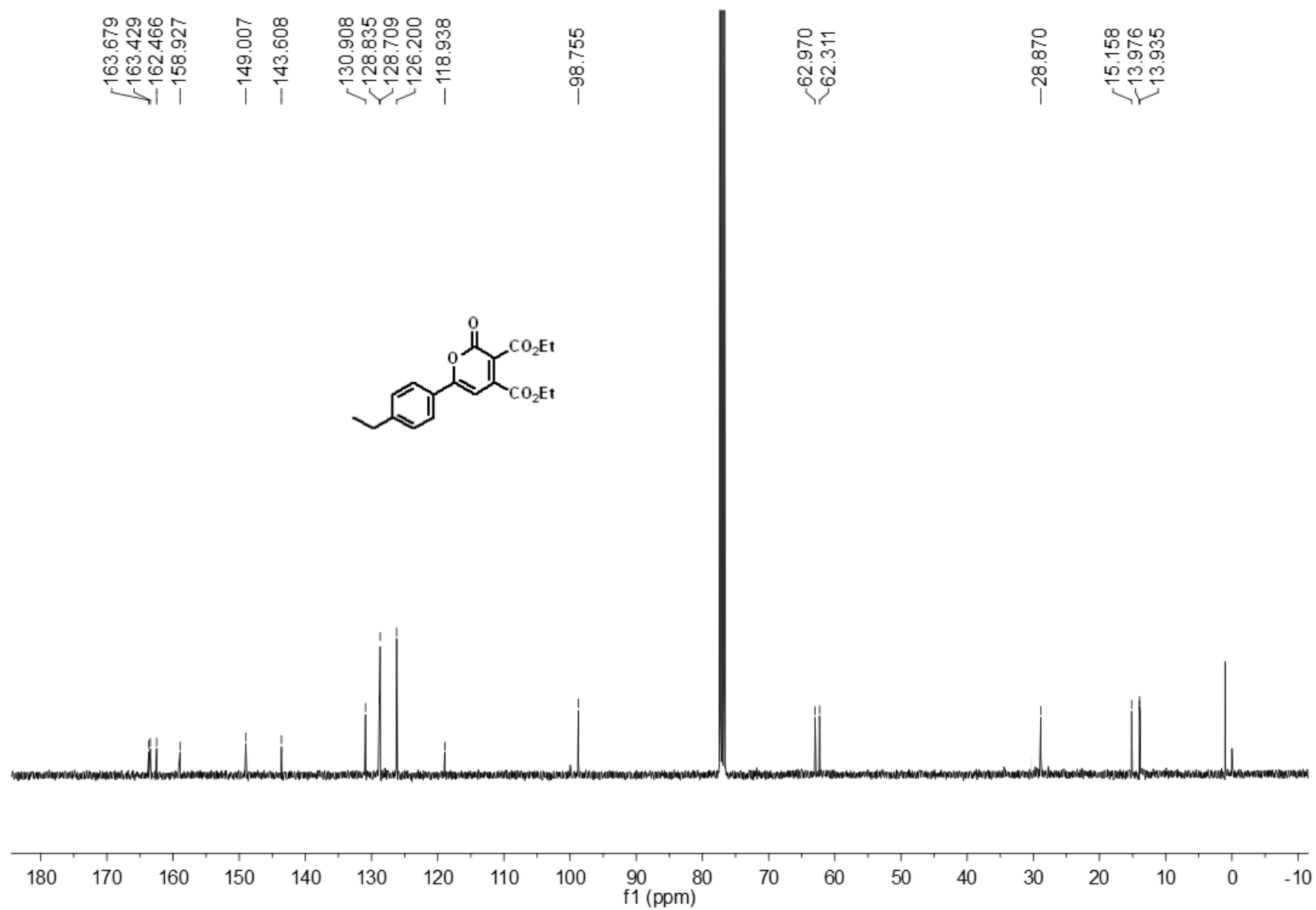
¹H NMR Spectrum of Compound 3p

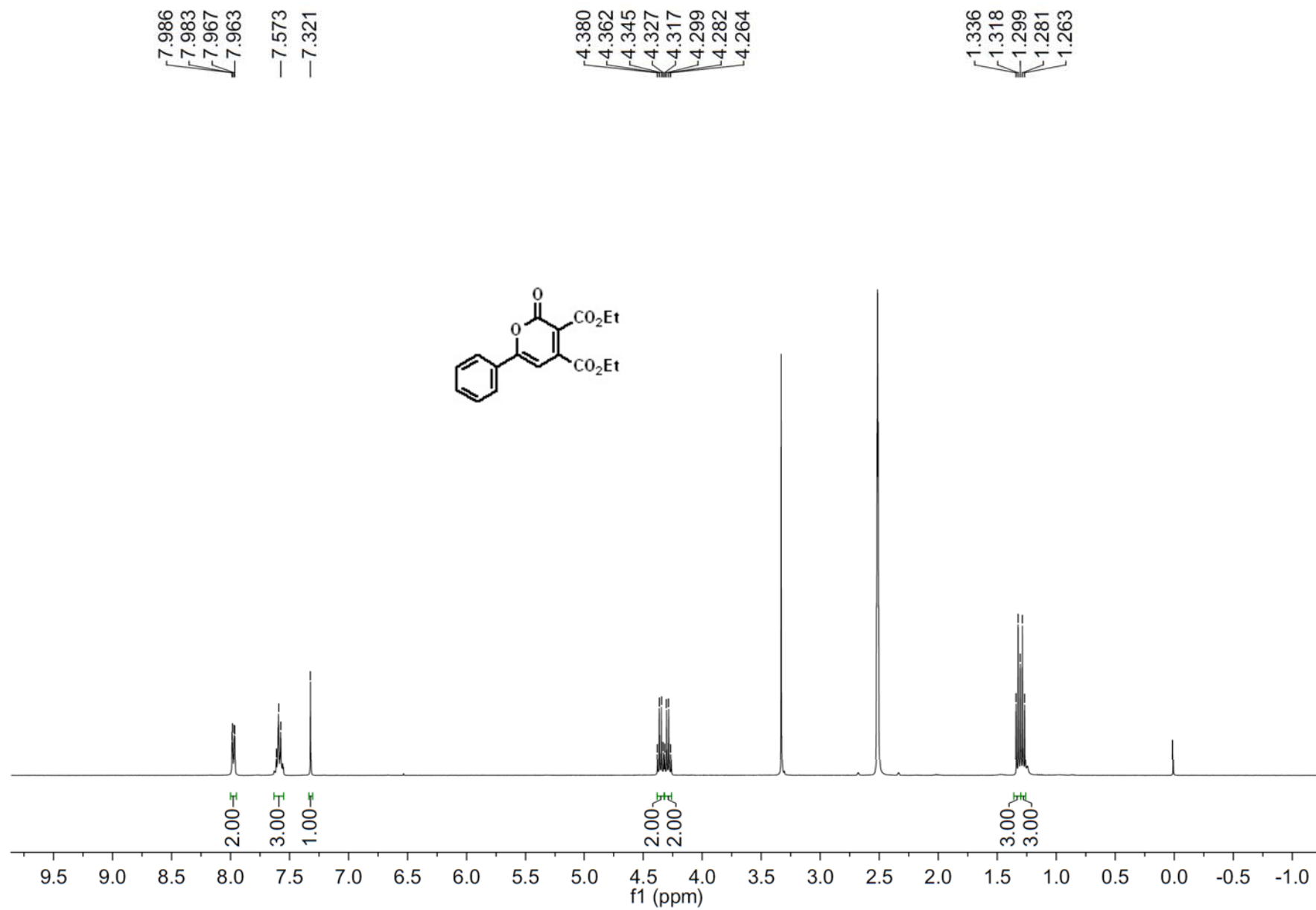


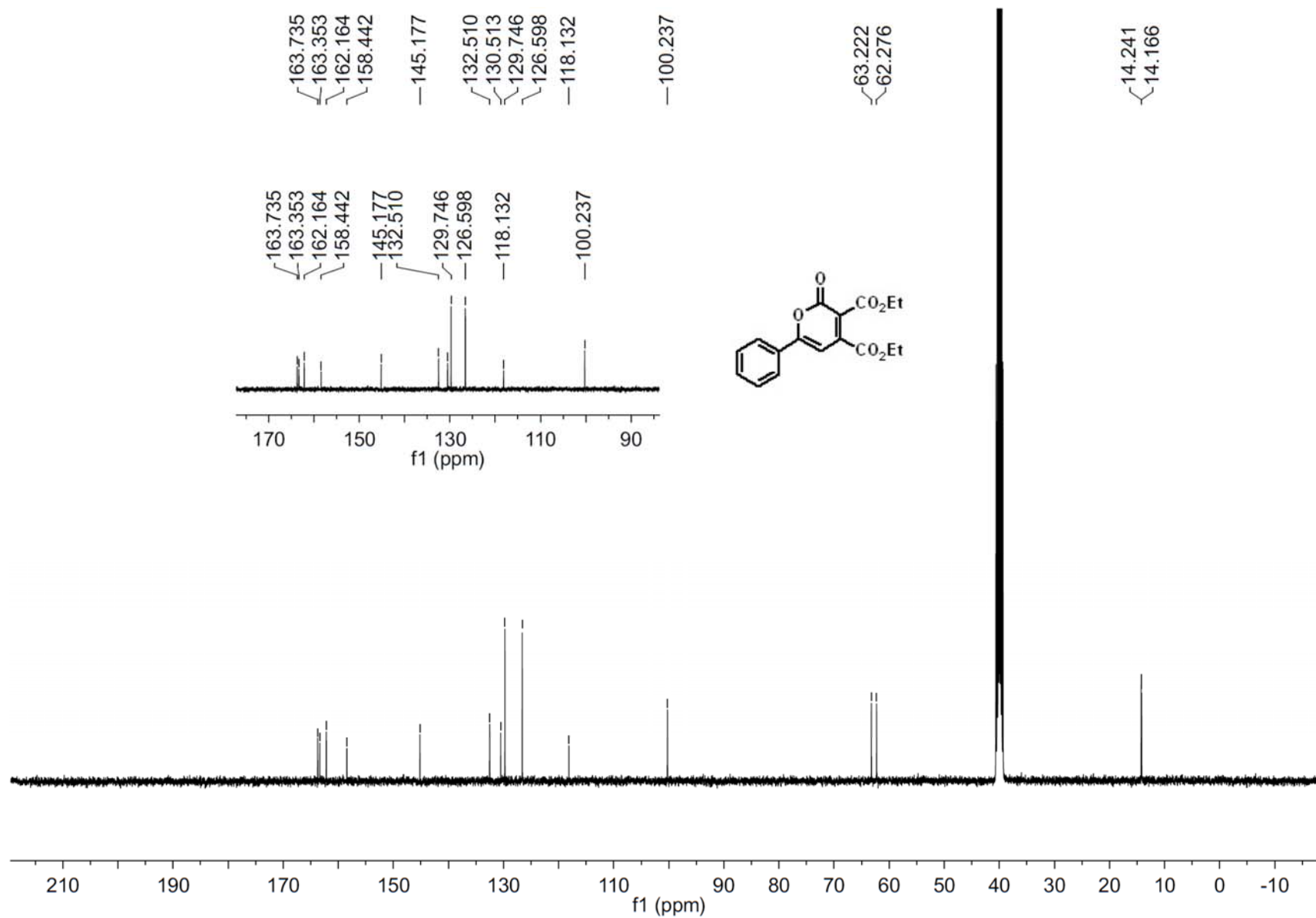
¹³C NMR Spectrum of Compound 3p



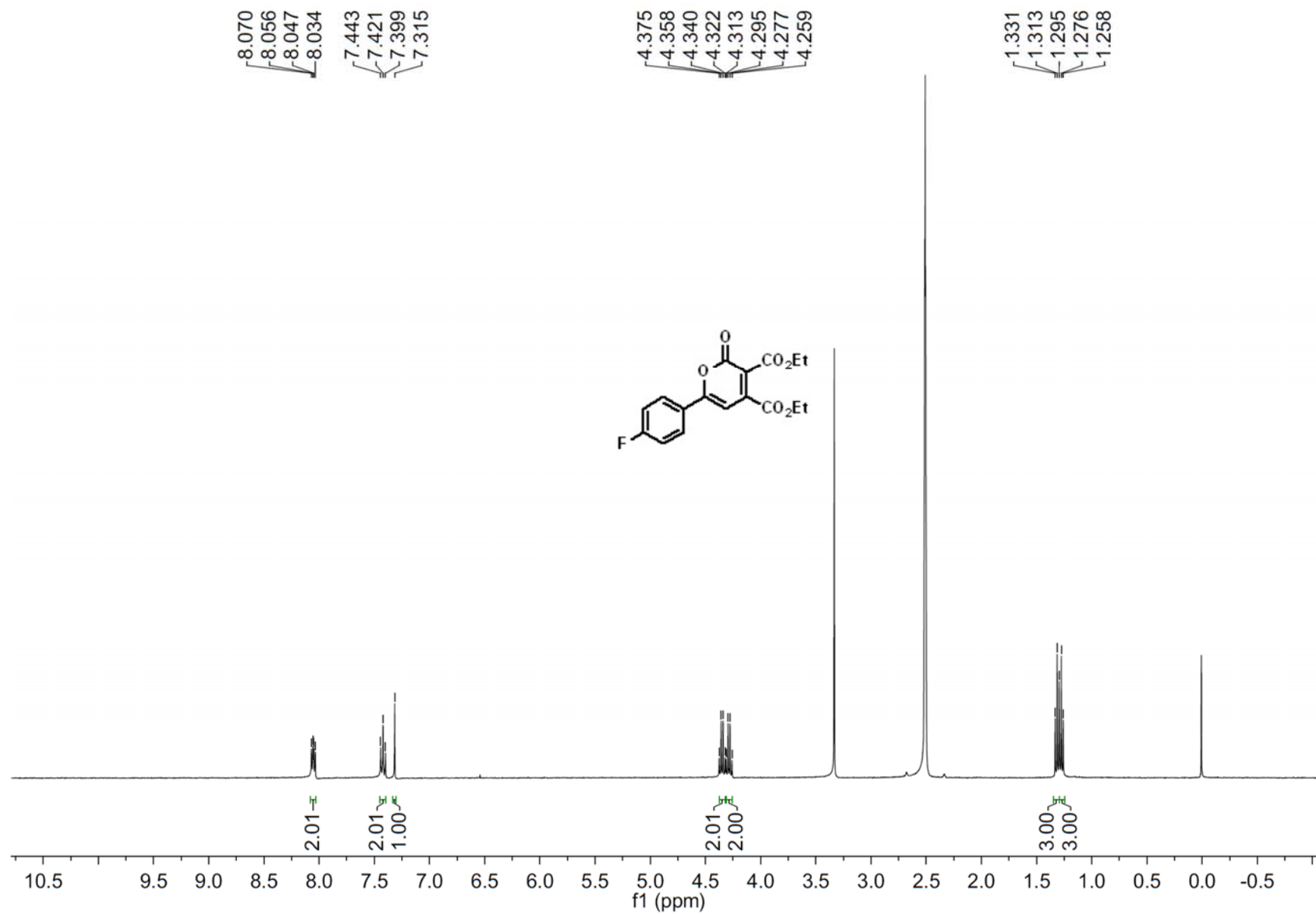
¹H NMR Spectrum of Compound 3q



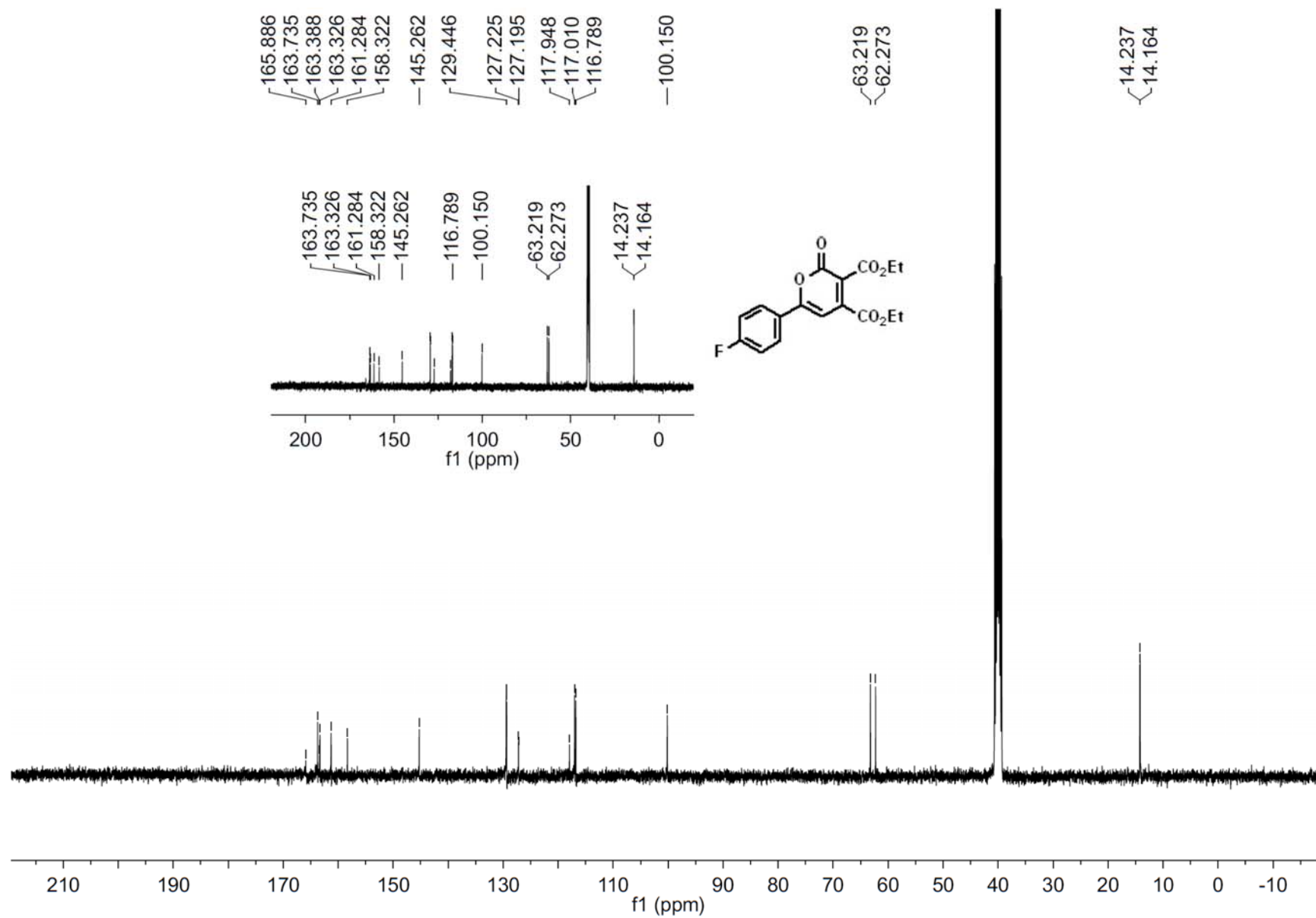




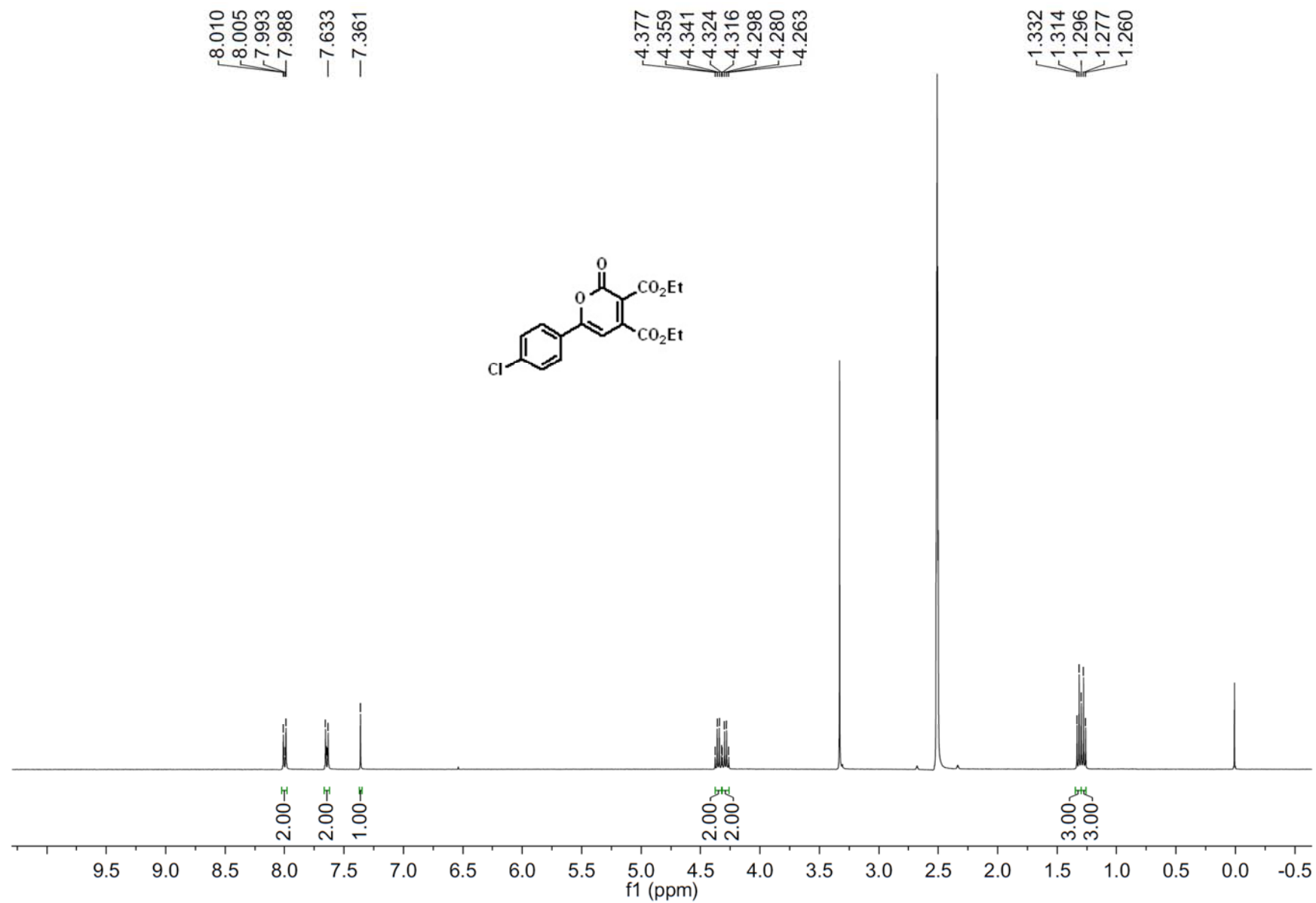
^{13}C NMR Spectrum of Compound 3r

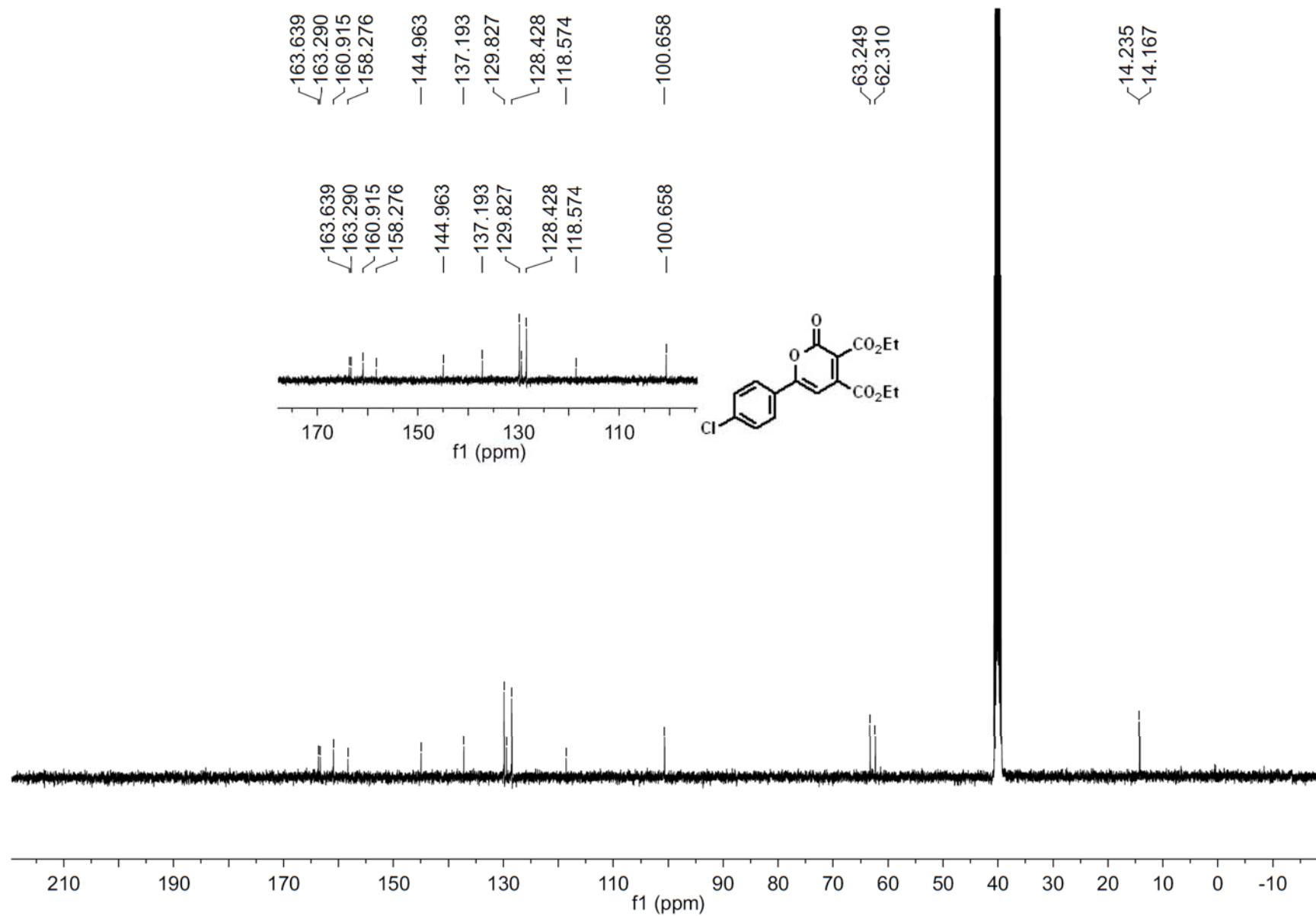


¹H NMR Spectrum of Compound 3s

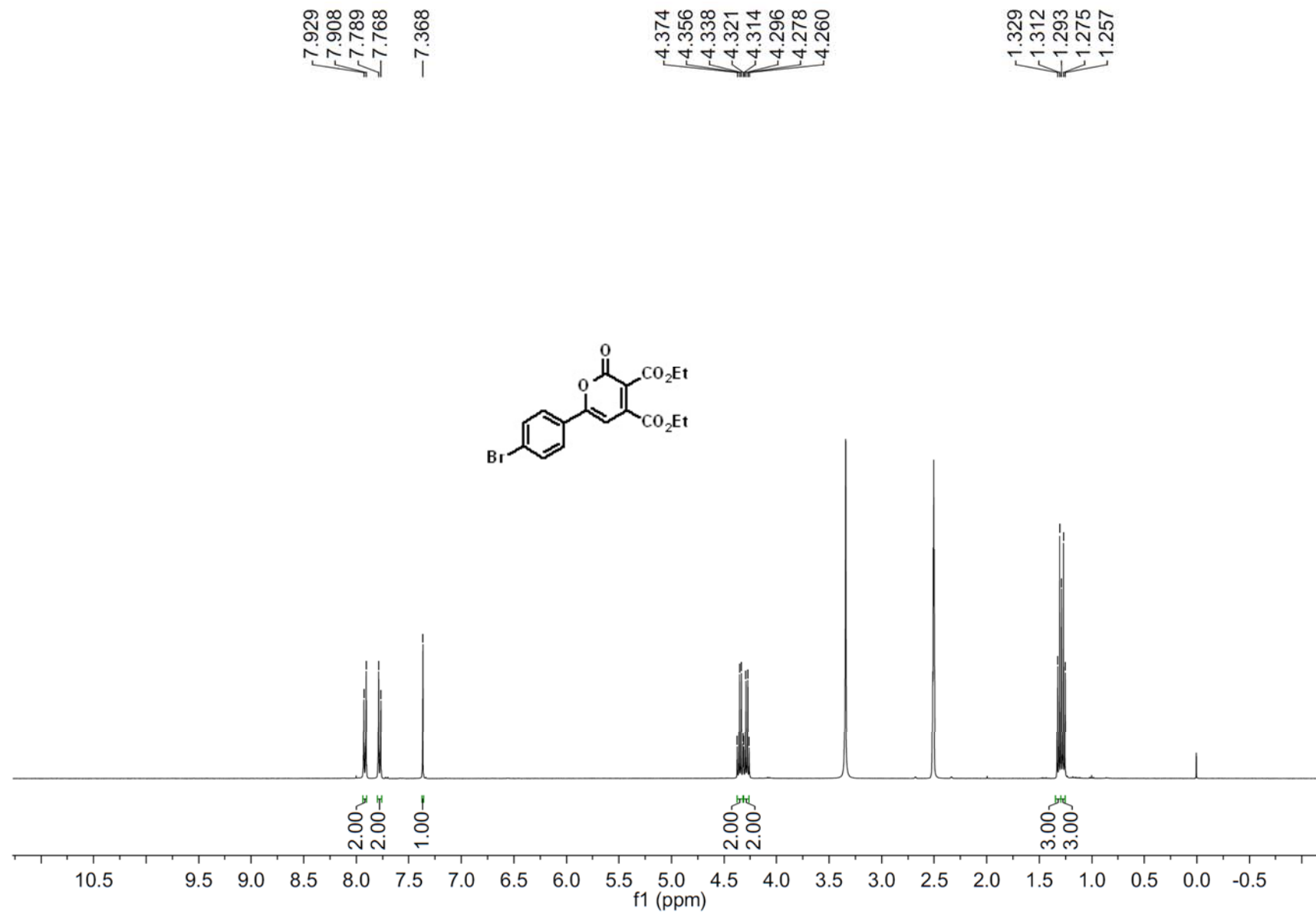


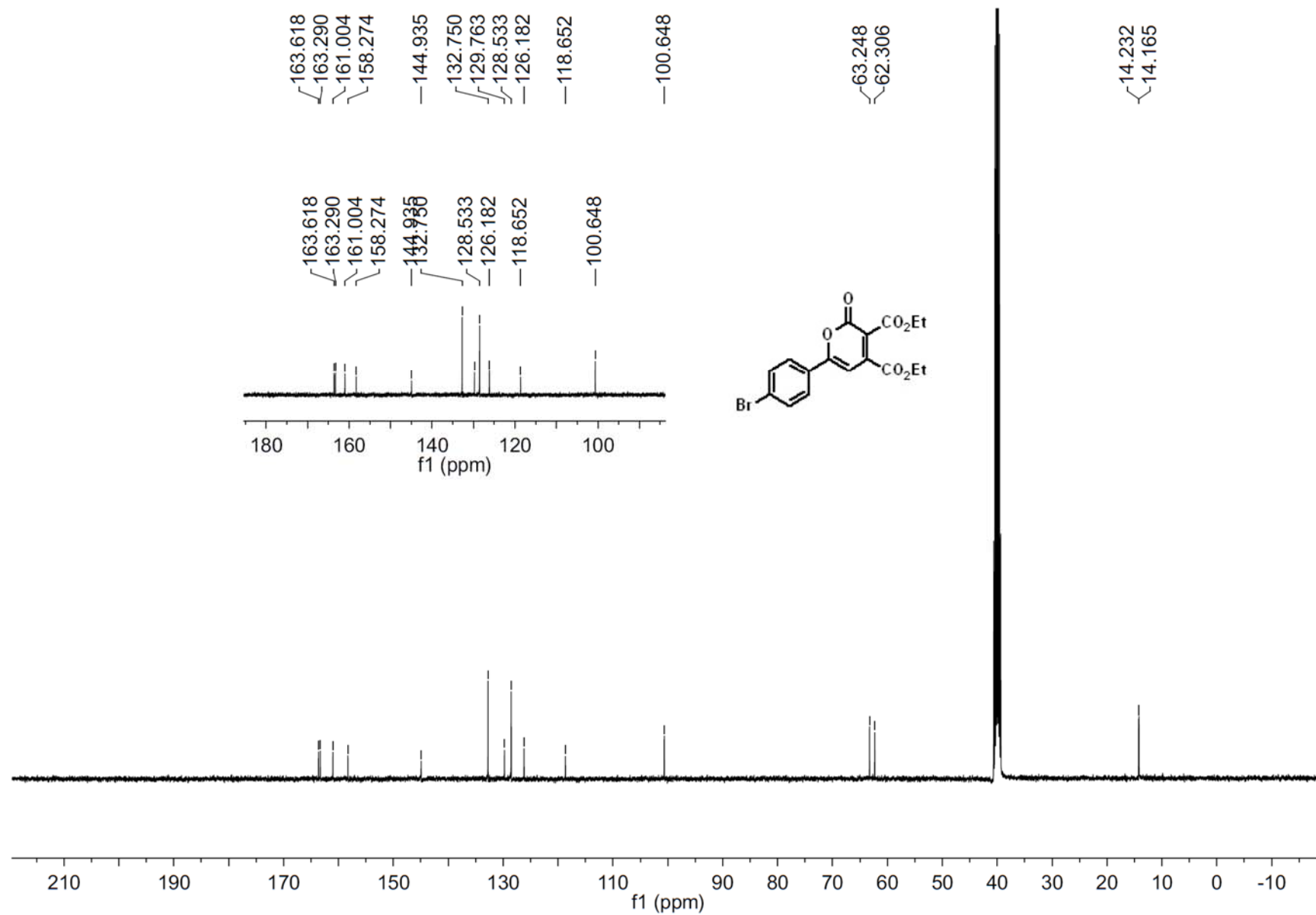
¹³C NMR Spectrum of Compound 3s



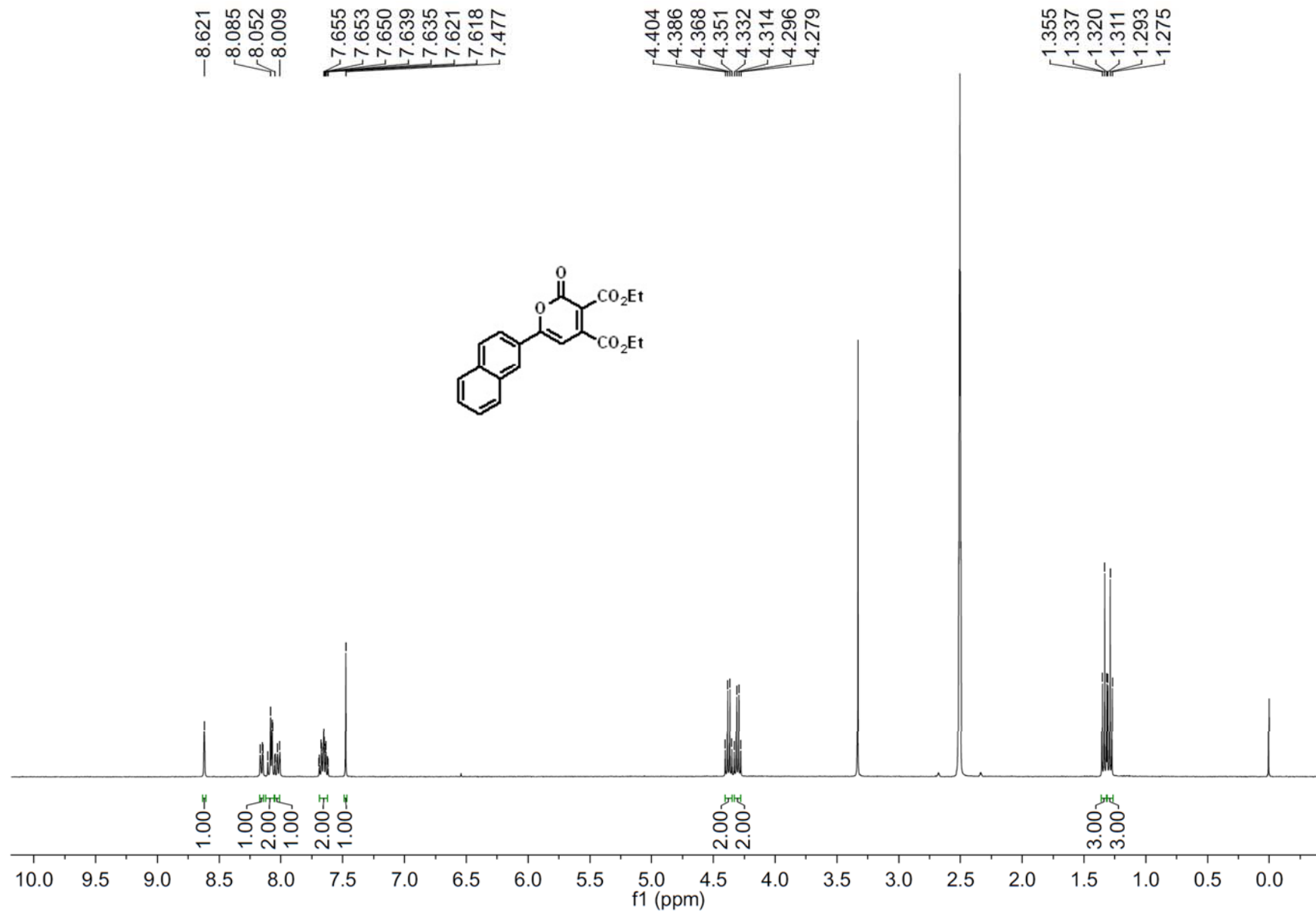


^{13}C NMR Spectrum of Compound 3t





¹³C NMR Spectrum of Compound 3u



¹H NMR Spectrum of Compound 3v

