

## SUPPLEMENTARY MATERIAL

## Condensation reactions of guanidines with bis-electrophiles: Formation of highly nitrogenous heterocycles

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Copies of  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR spectra for **10a**, **10b**, **10c**, **10a•HCl**, **13**, **13•TFA**, **18•HCl**, **19**, **22**, **23**, **24**, **25**, **27**, **30**, **31**, **38a**, **38b**, **38c**, **38d**, **40**, **41**, **42**, **43**, **44**, **45**, **46**, **48d**, **49a**, **49b**, **49c**, **49d**, **49e**, **49f**, **49g**, **49h**, and **49i**, and copies of  $^1\text{H}$  NMR spectra for **10b•HCl**, **10c•HCl**, and **18**.

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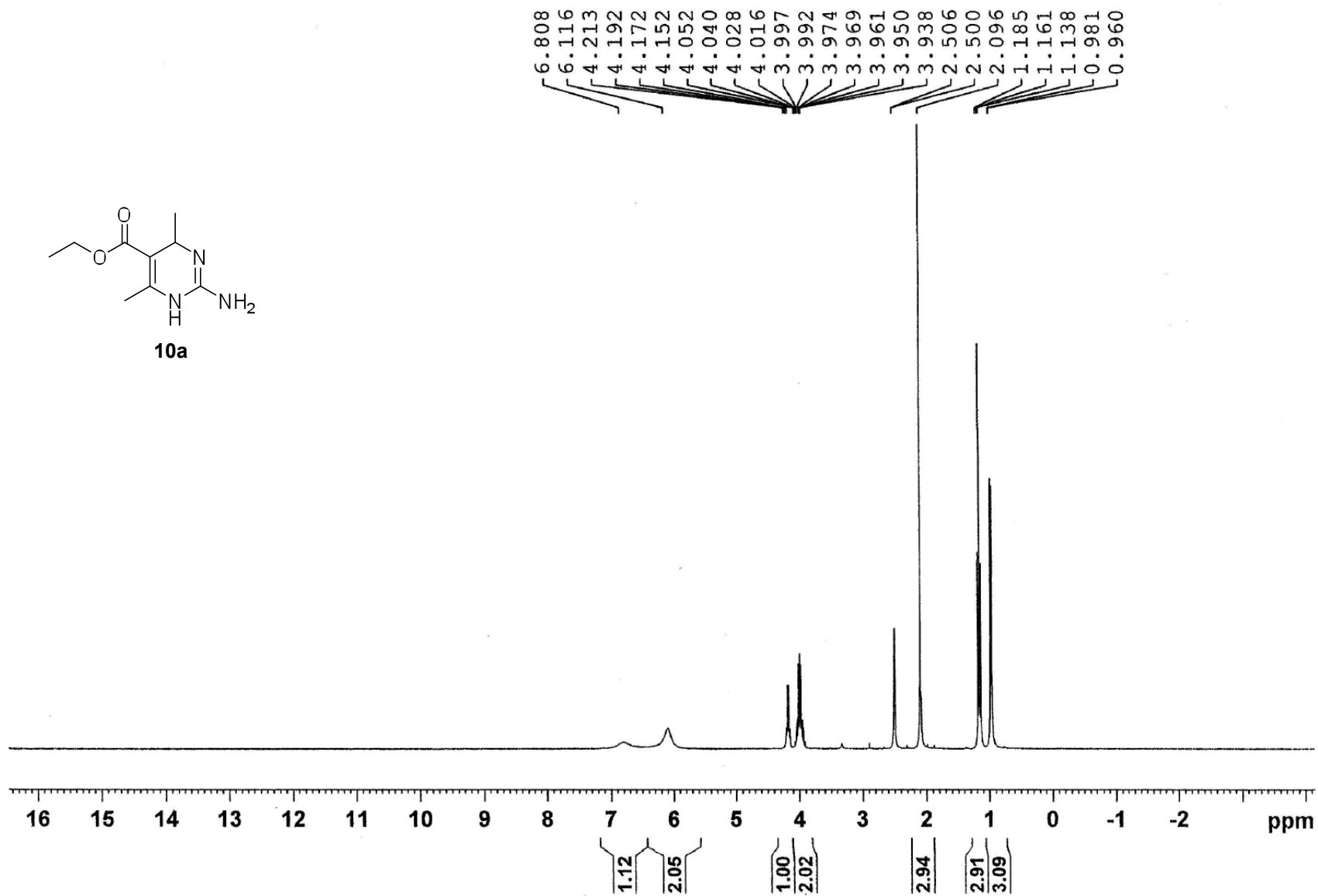
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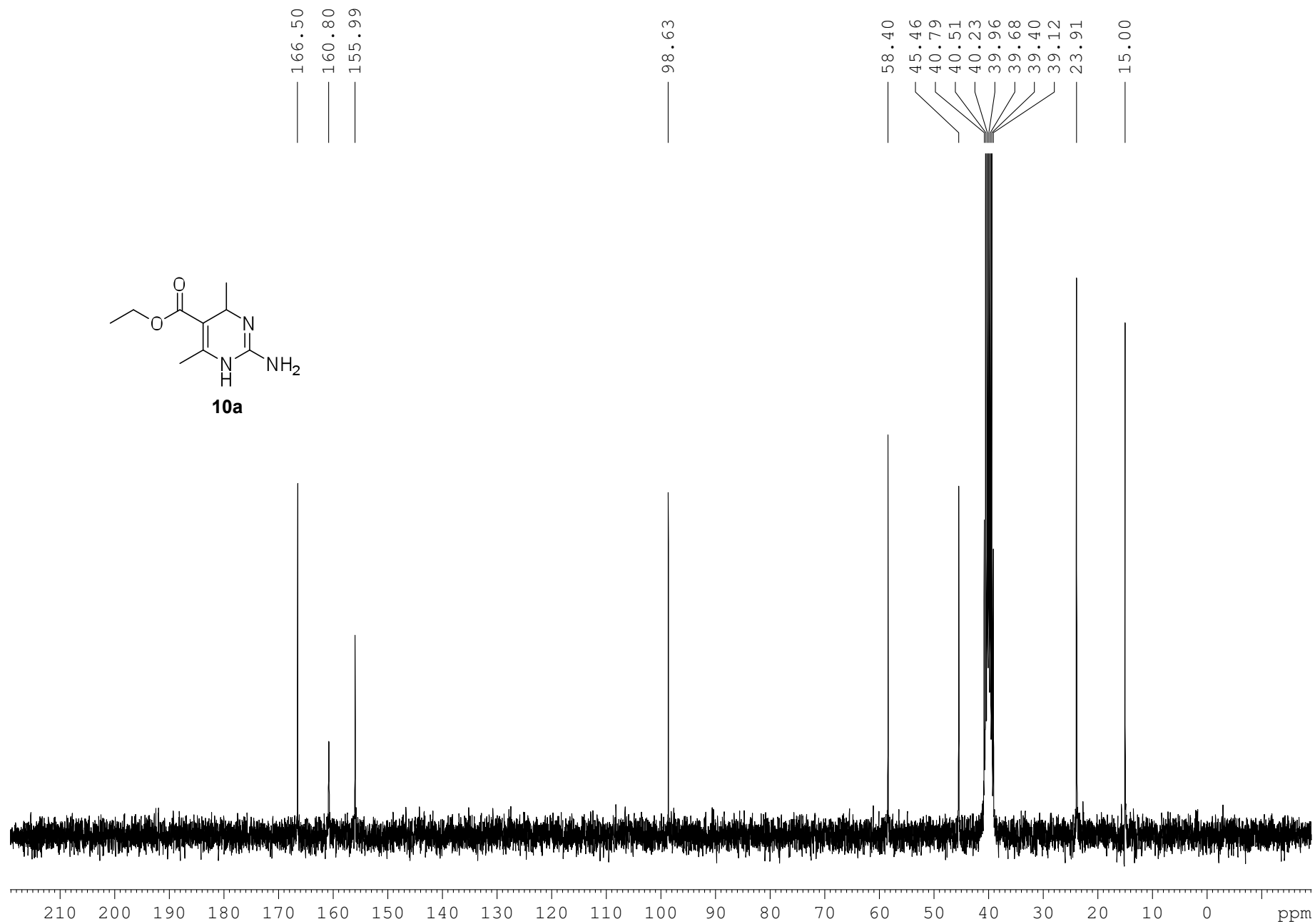
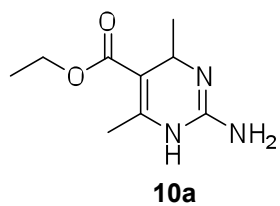
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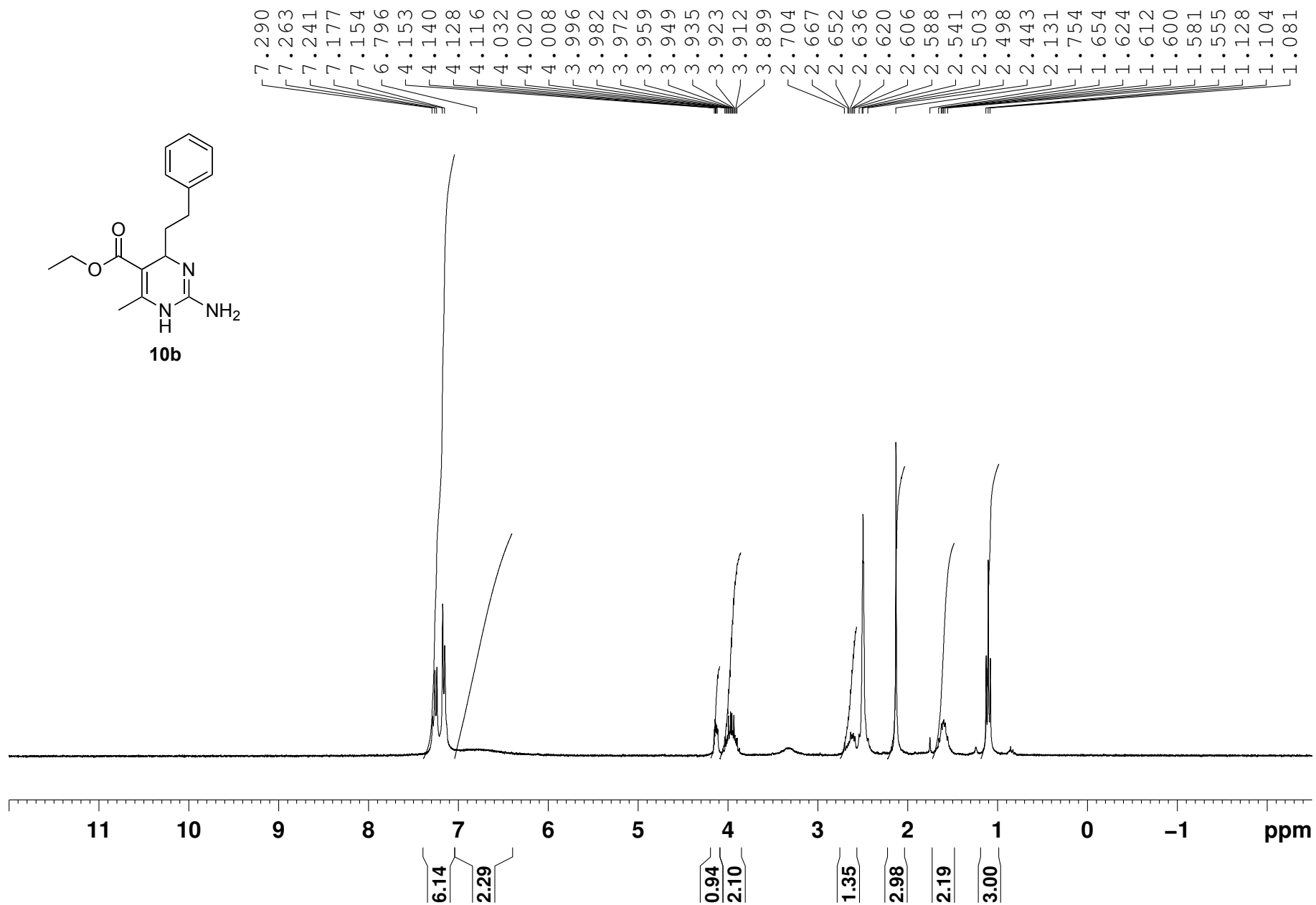
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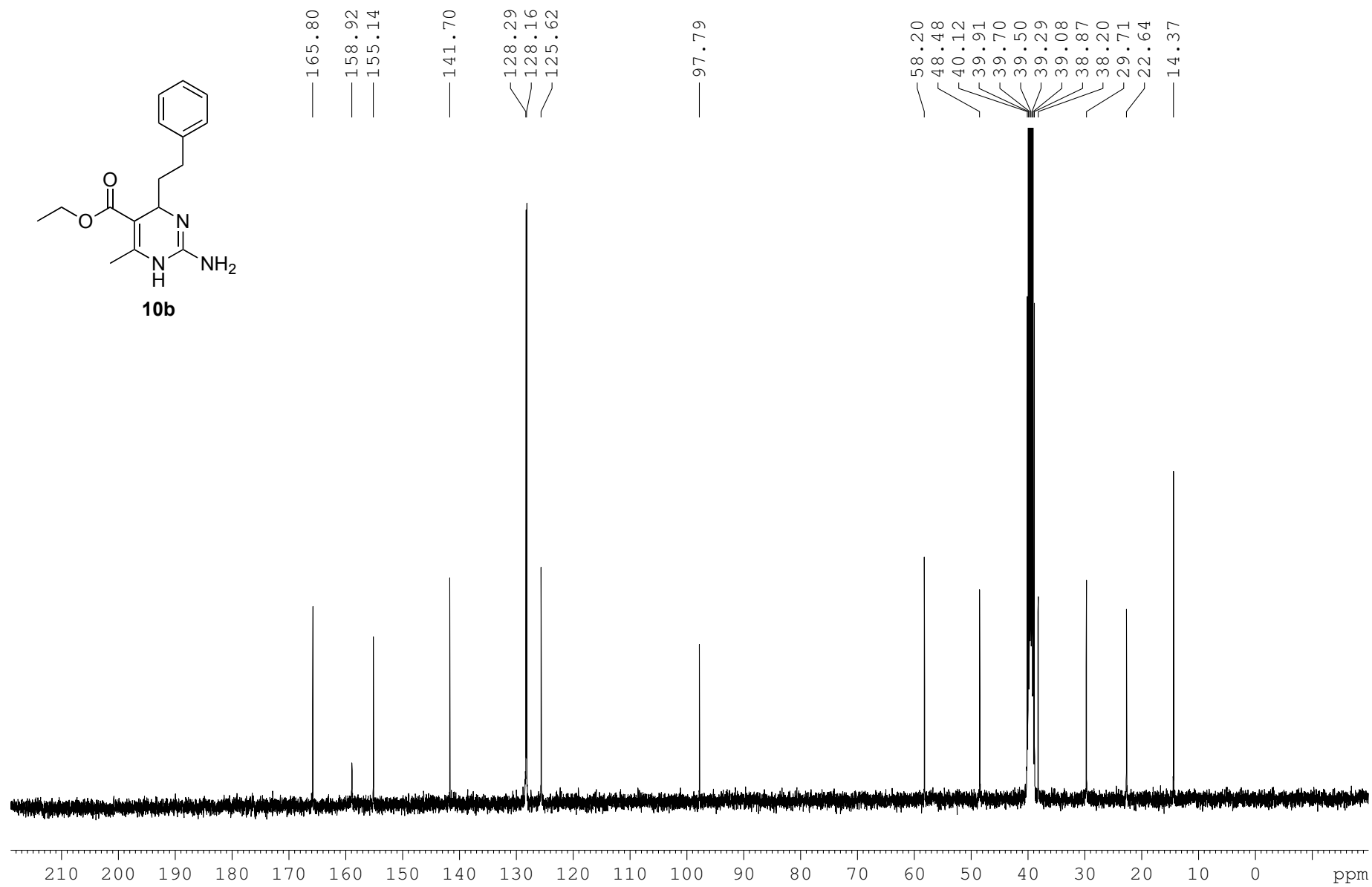
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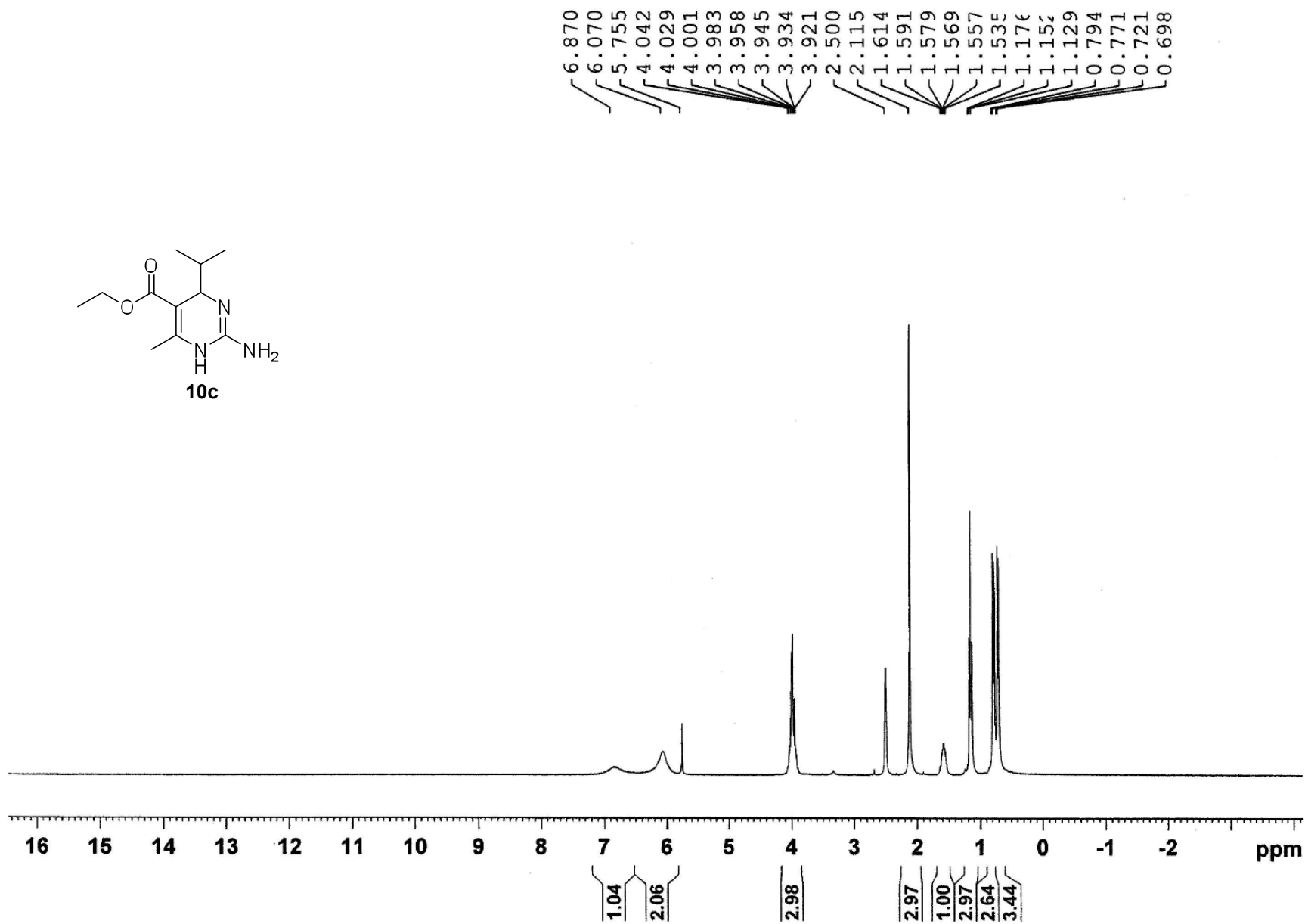
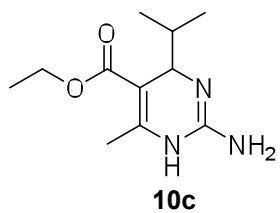
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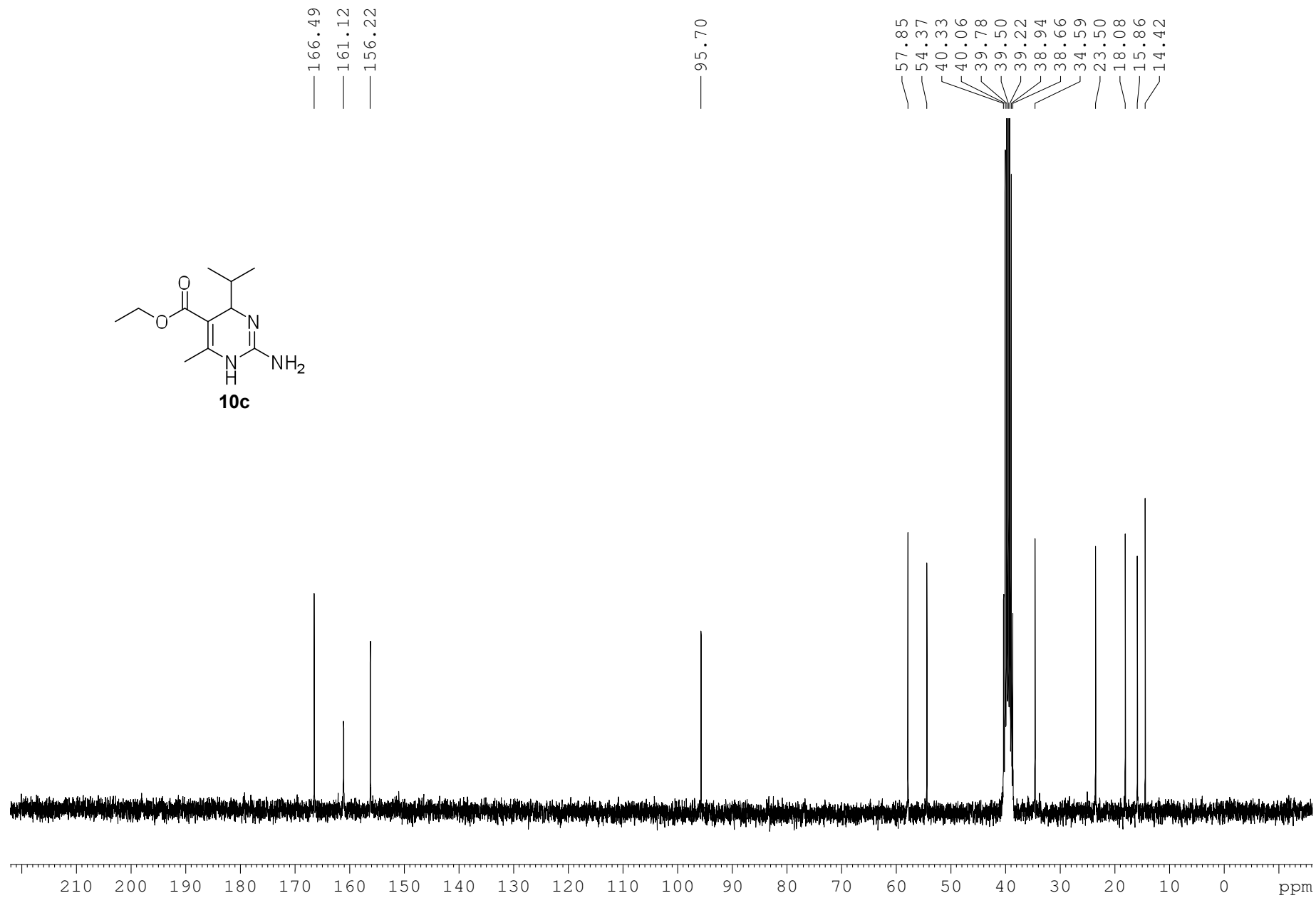
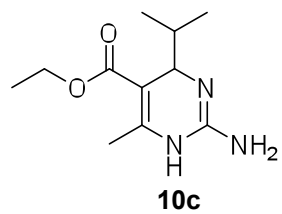


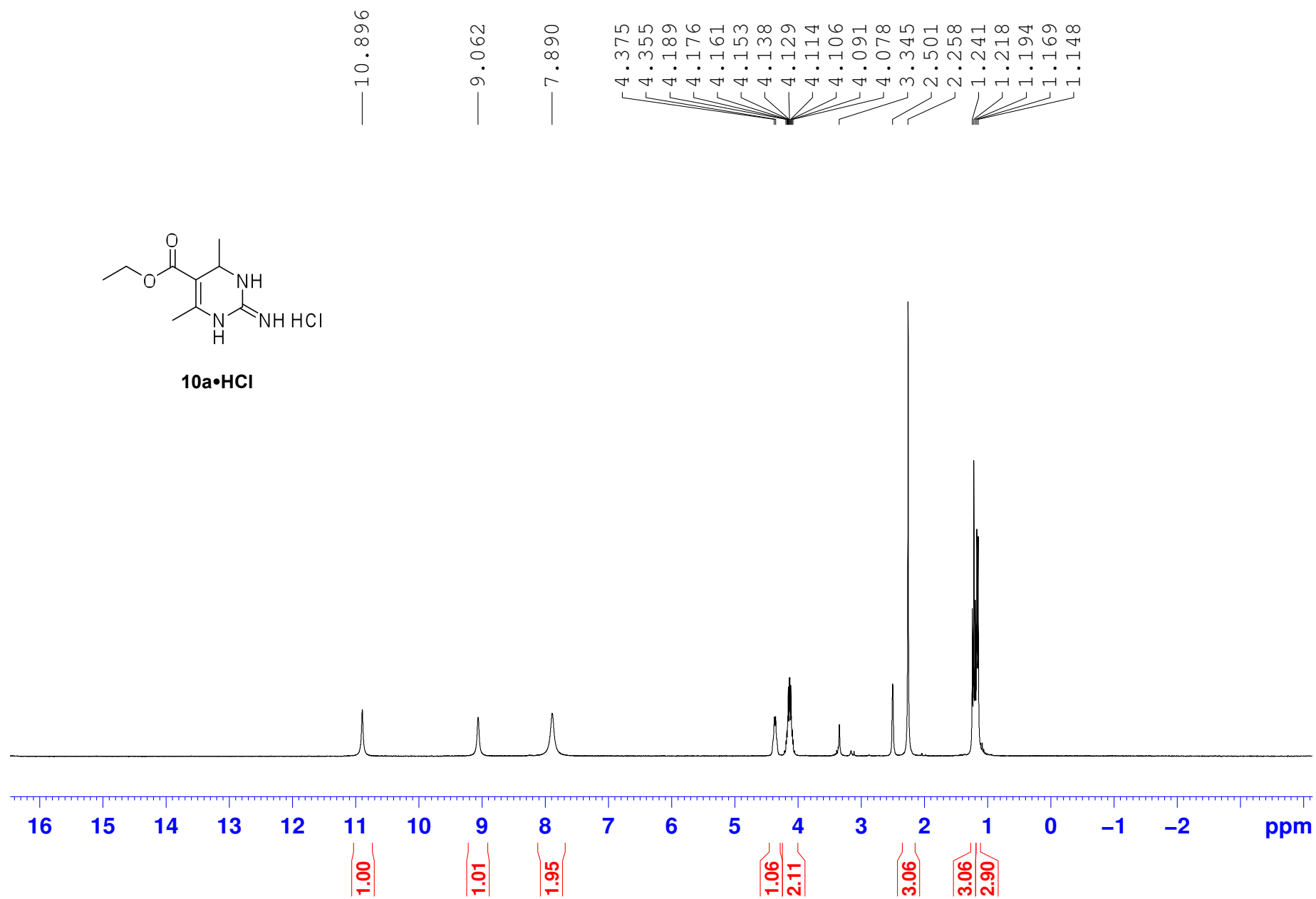


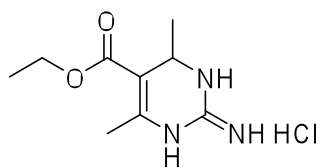
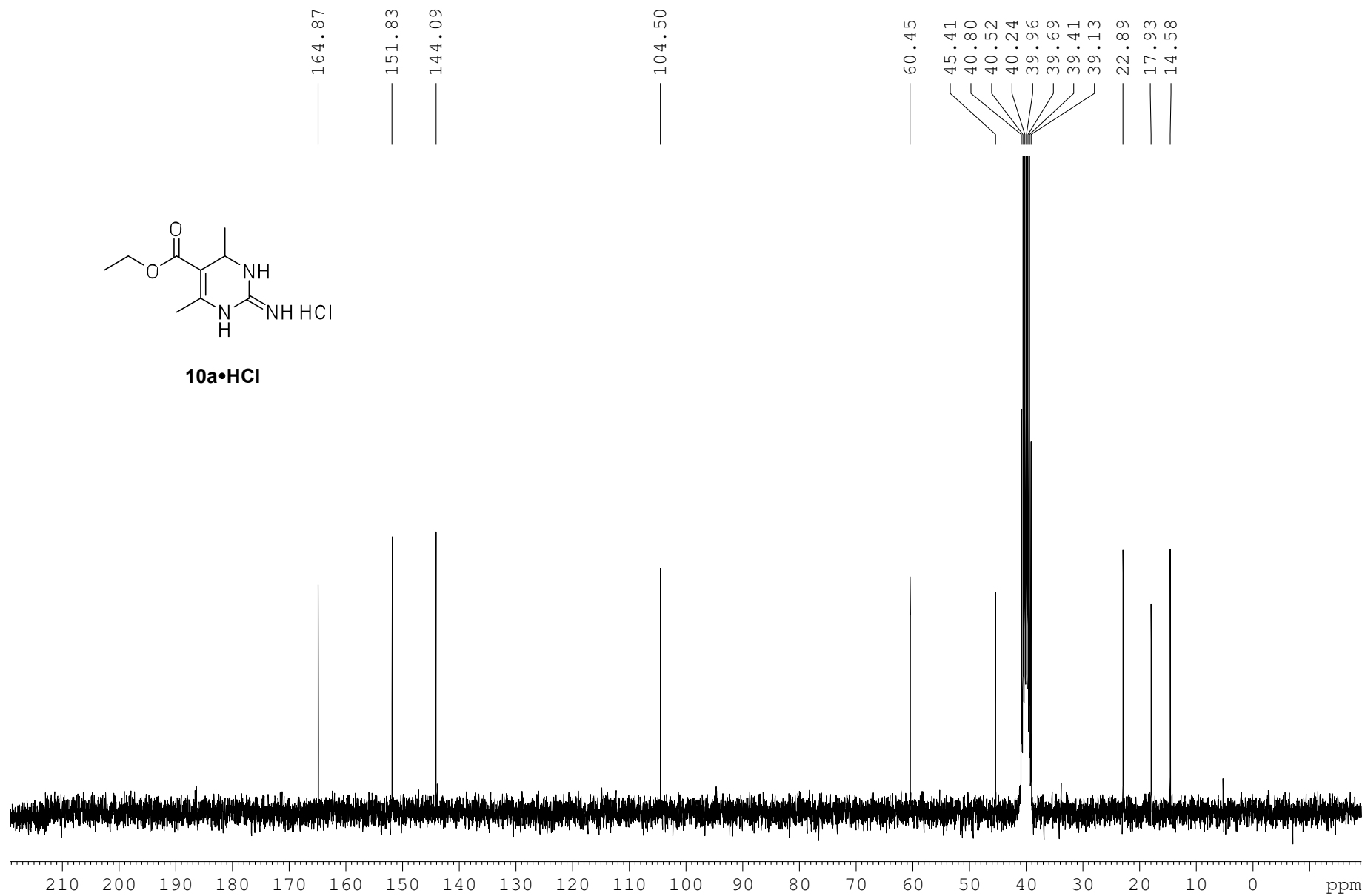


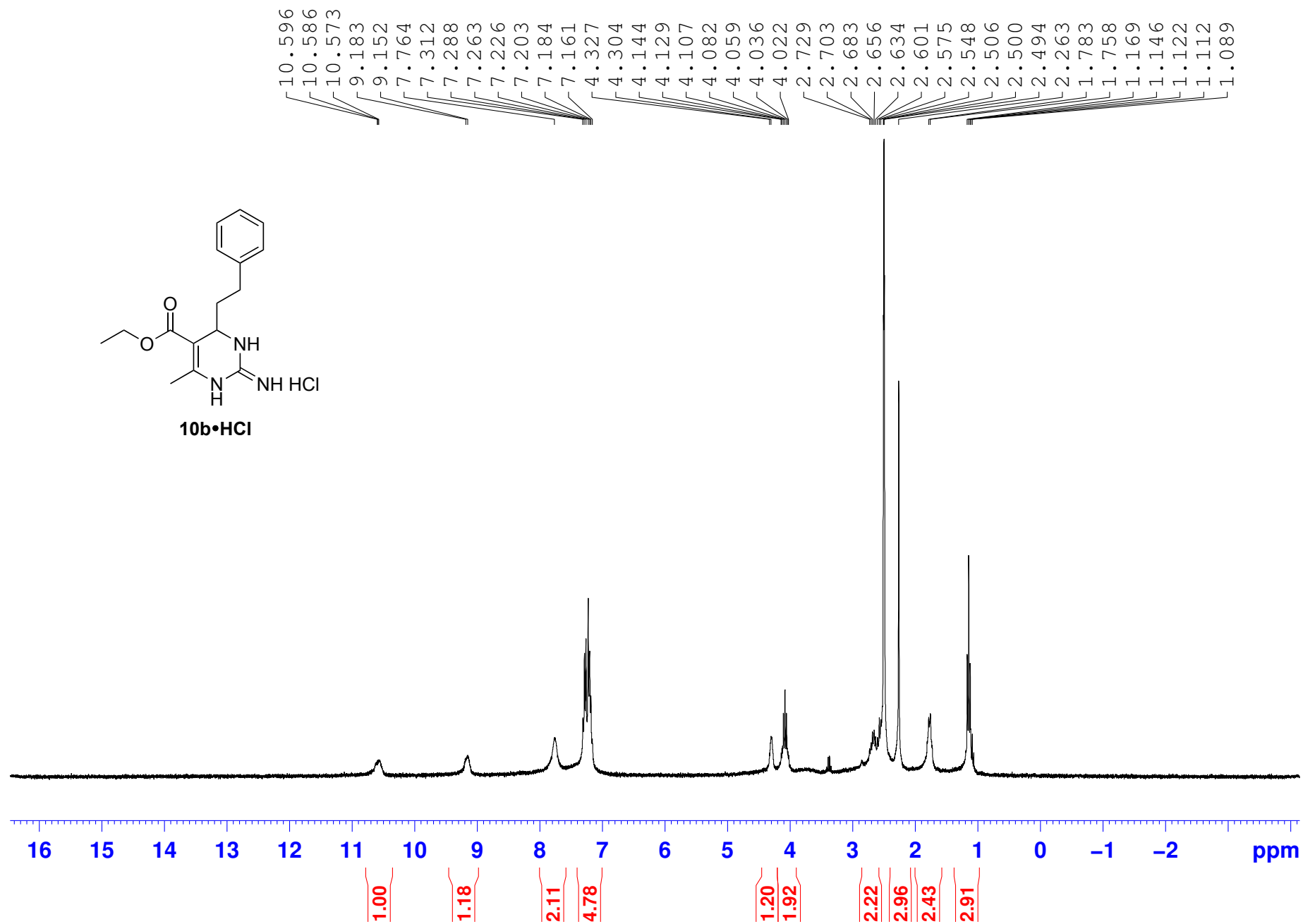


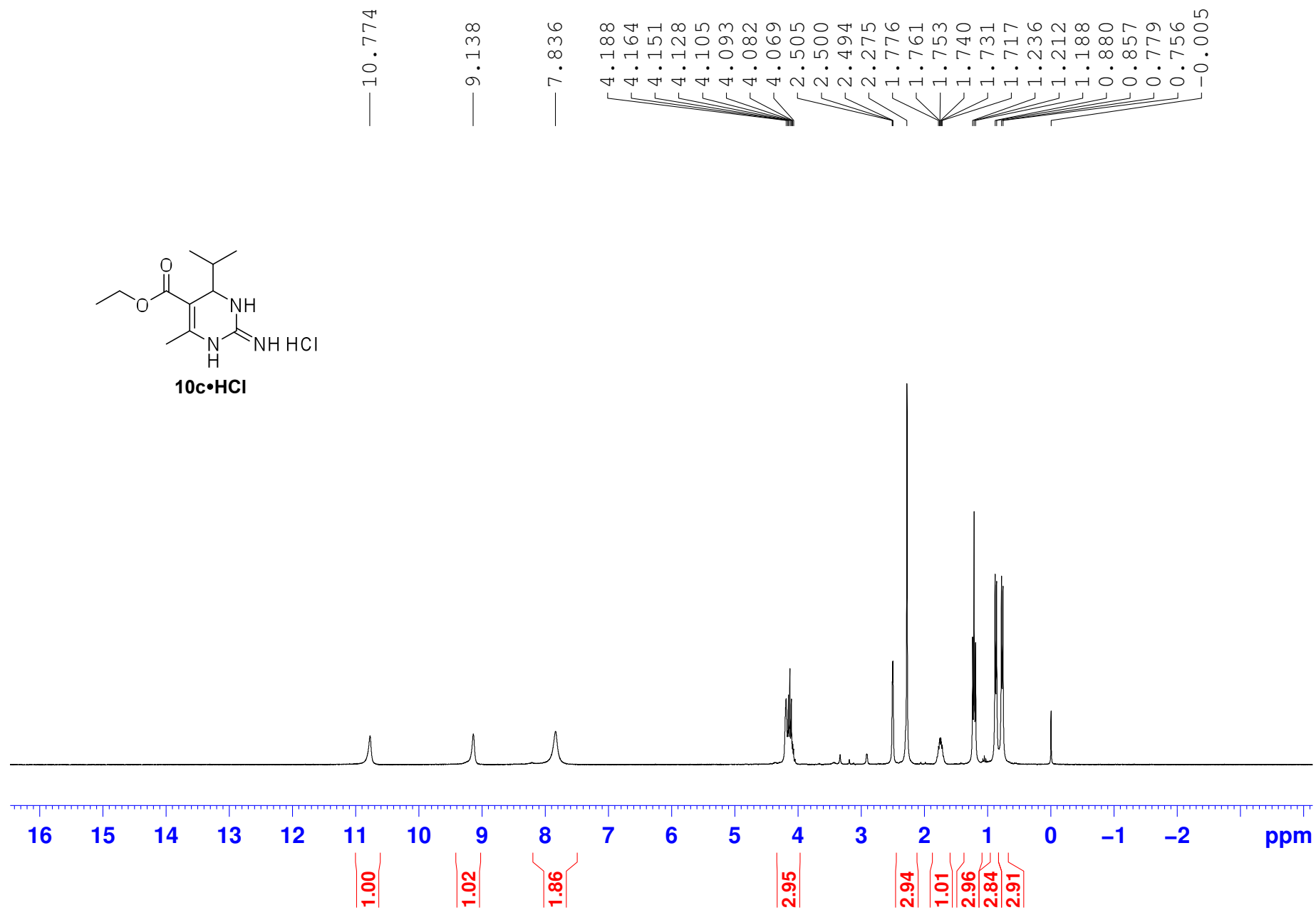
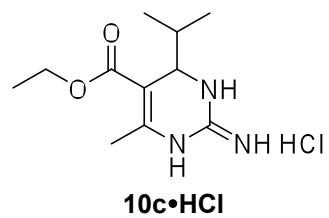


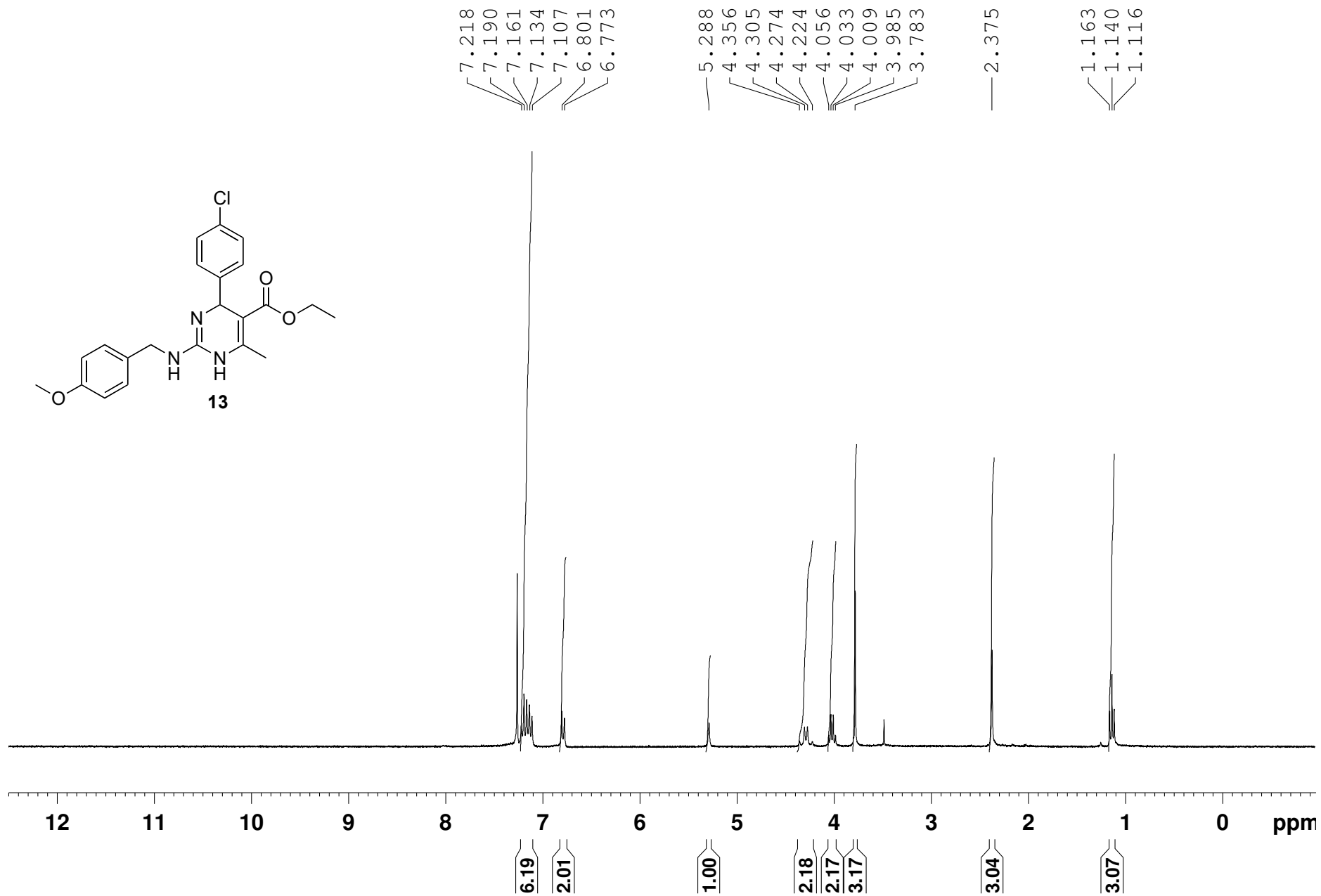


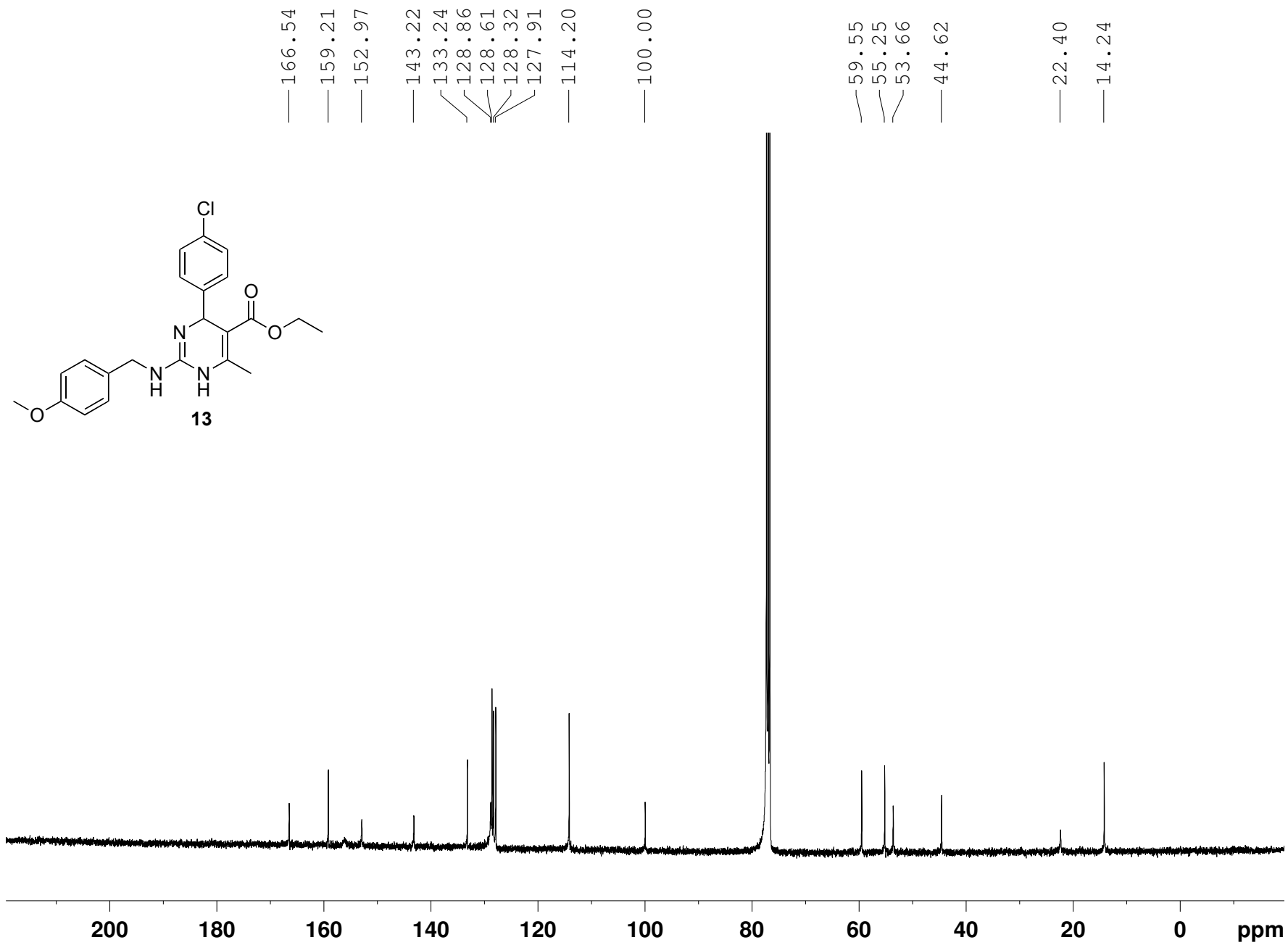


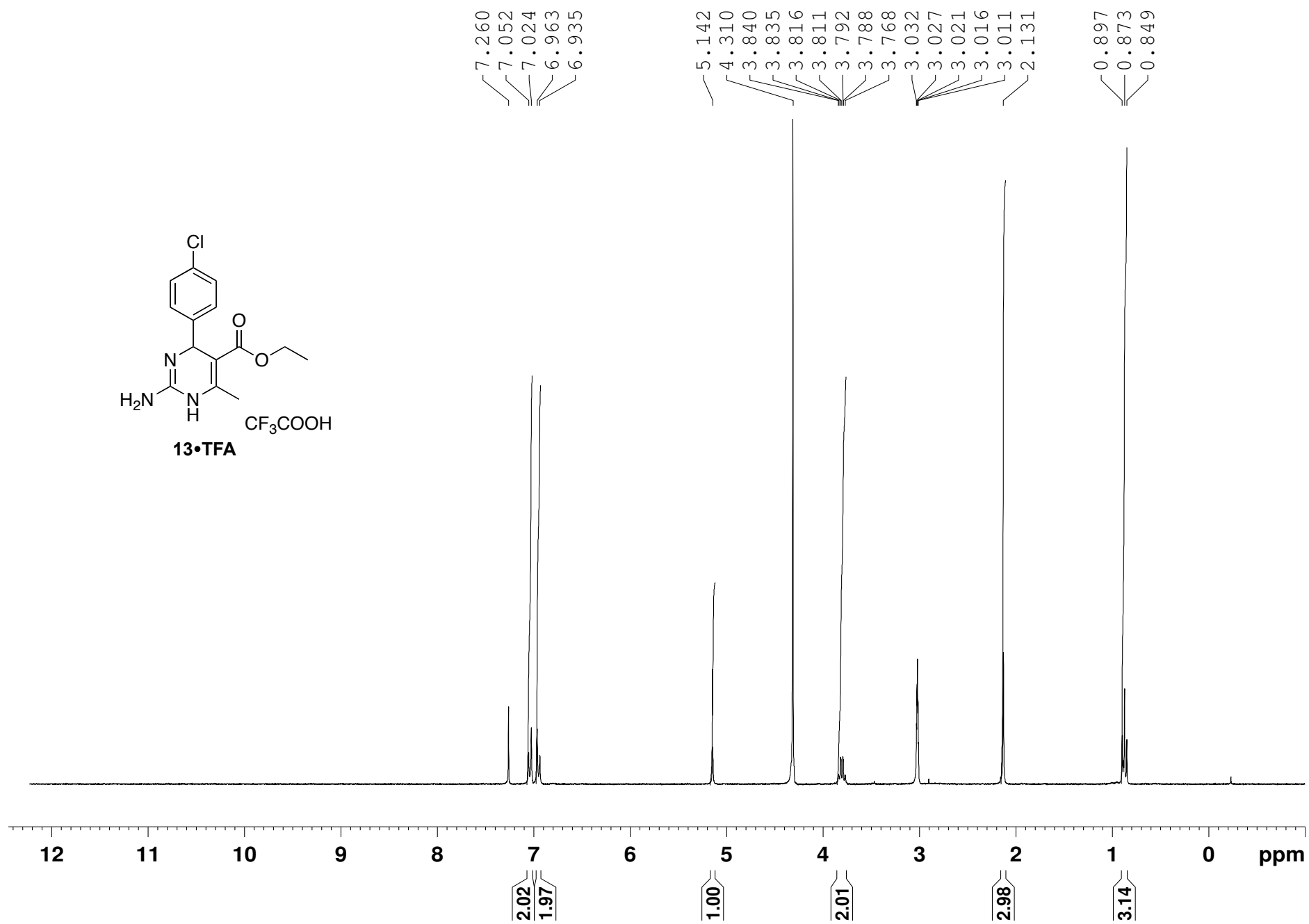
**10a•HCl**



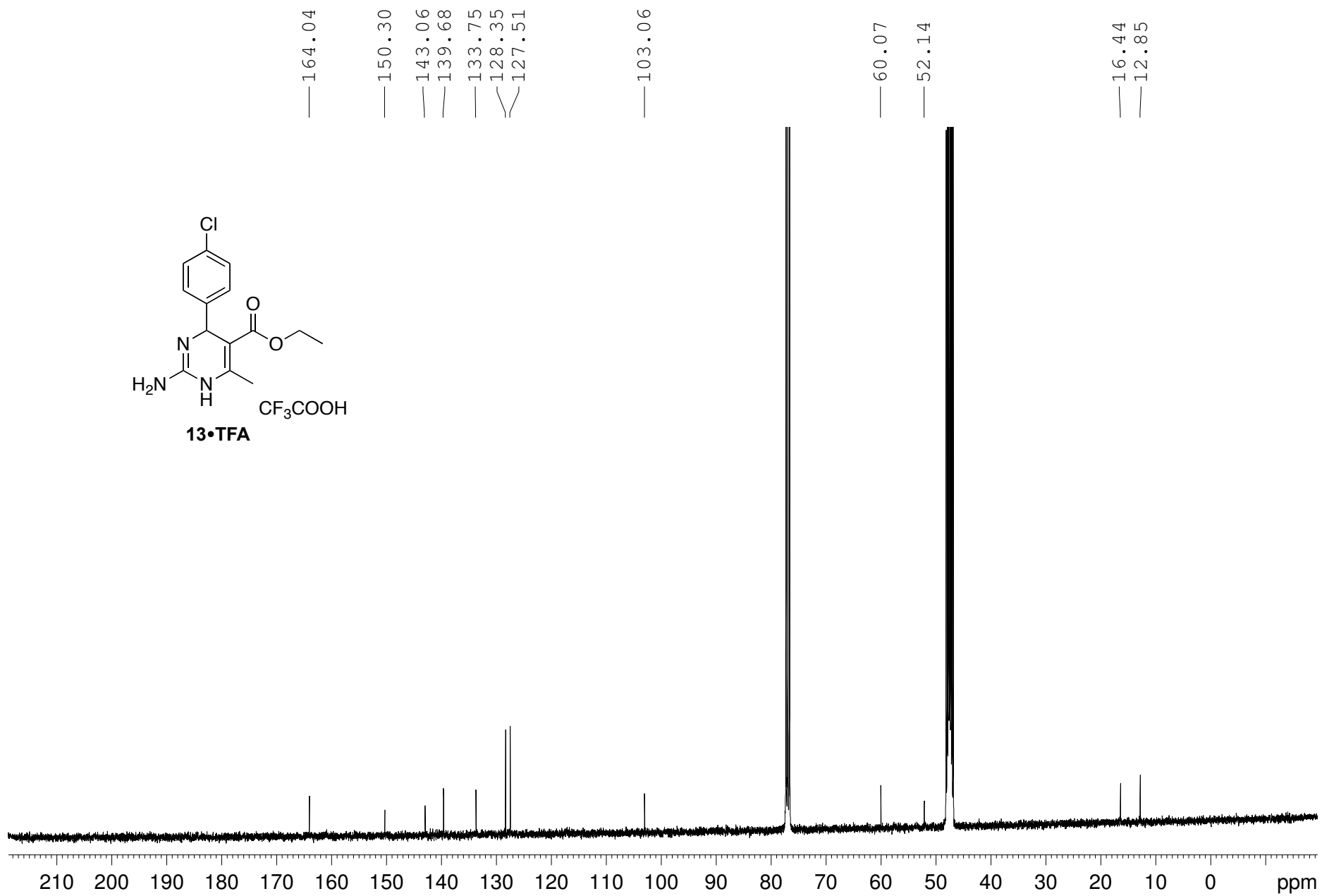
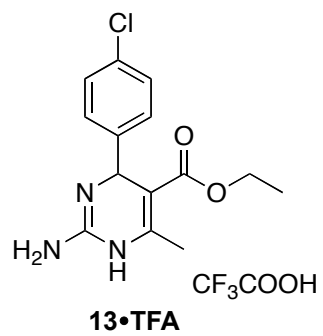


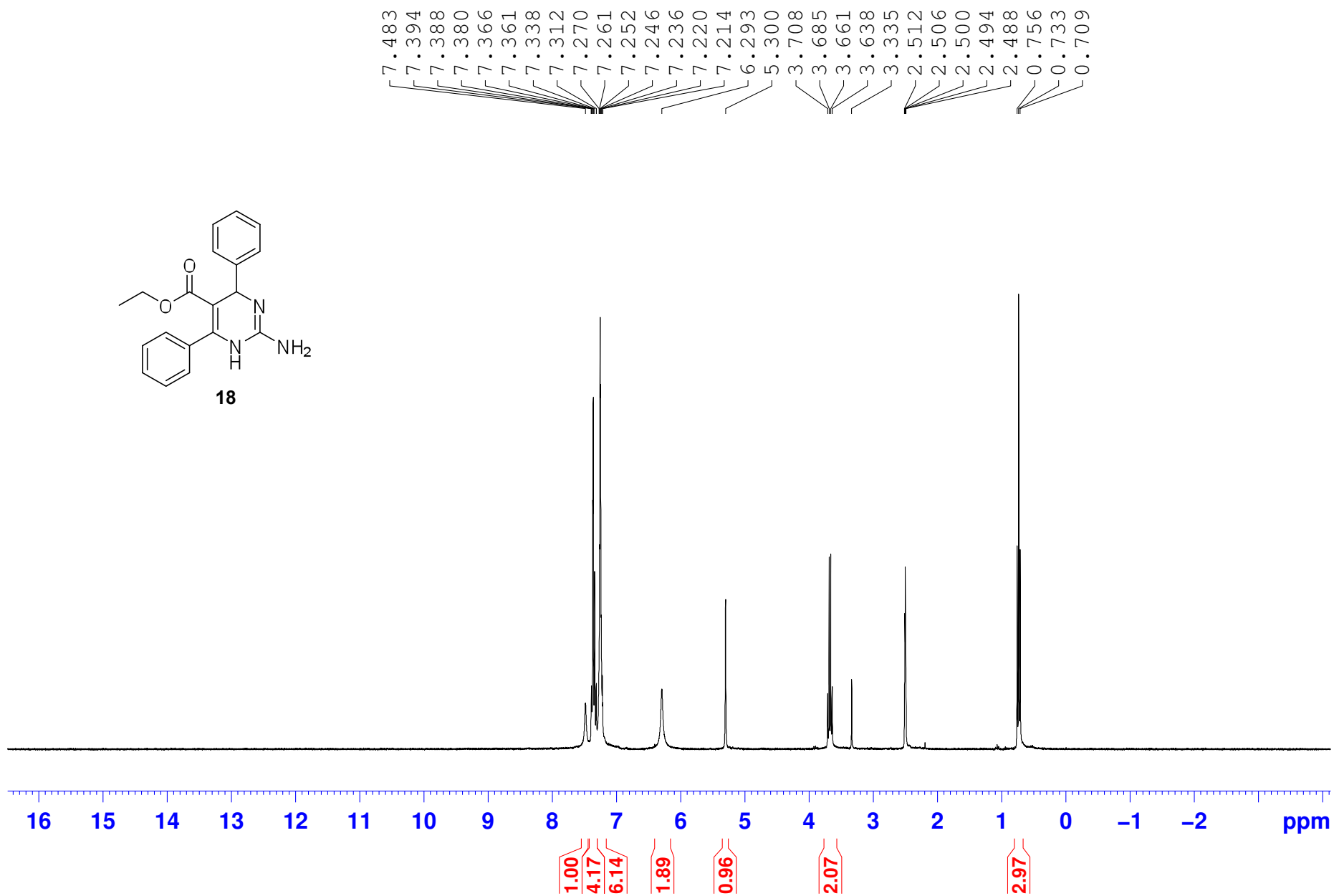
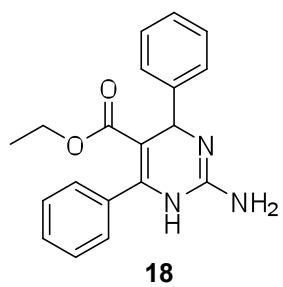


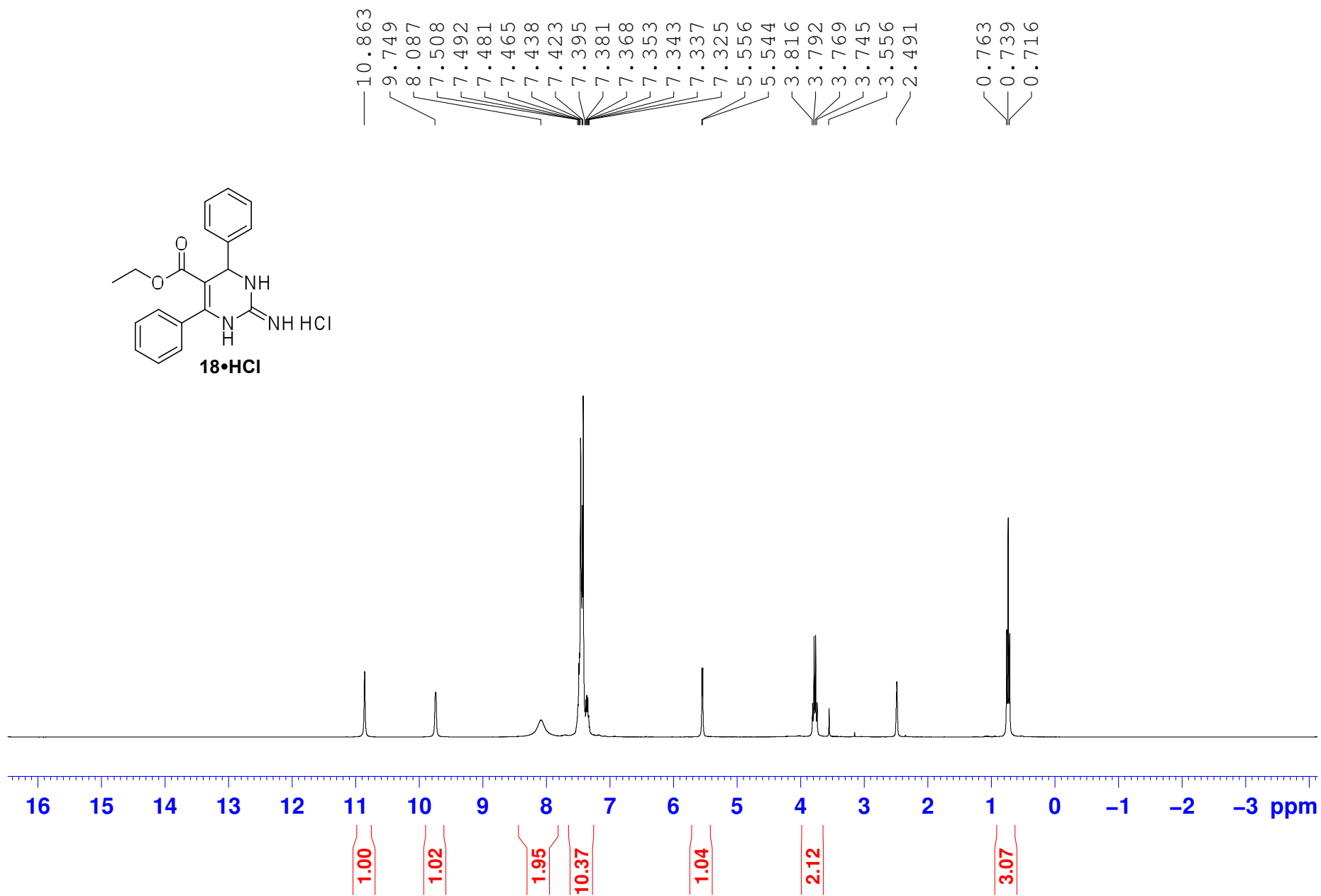


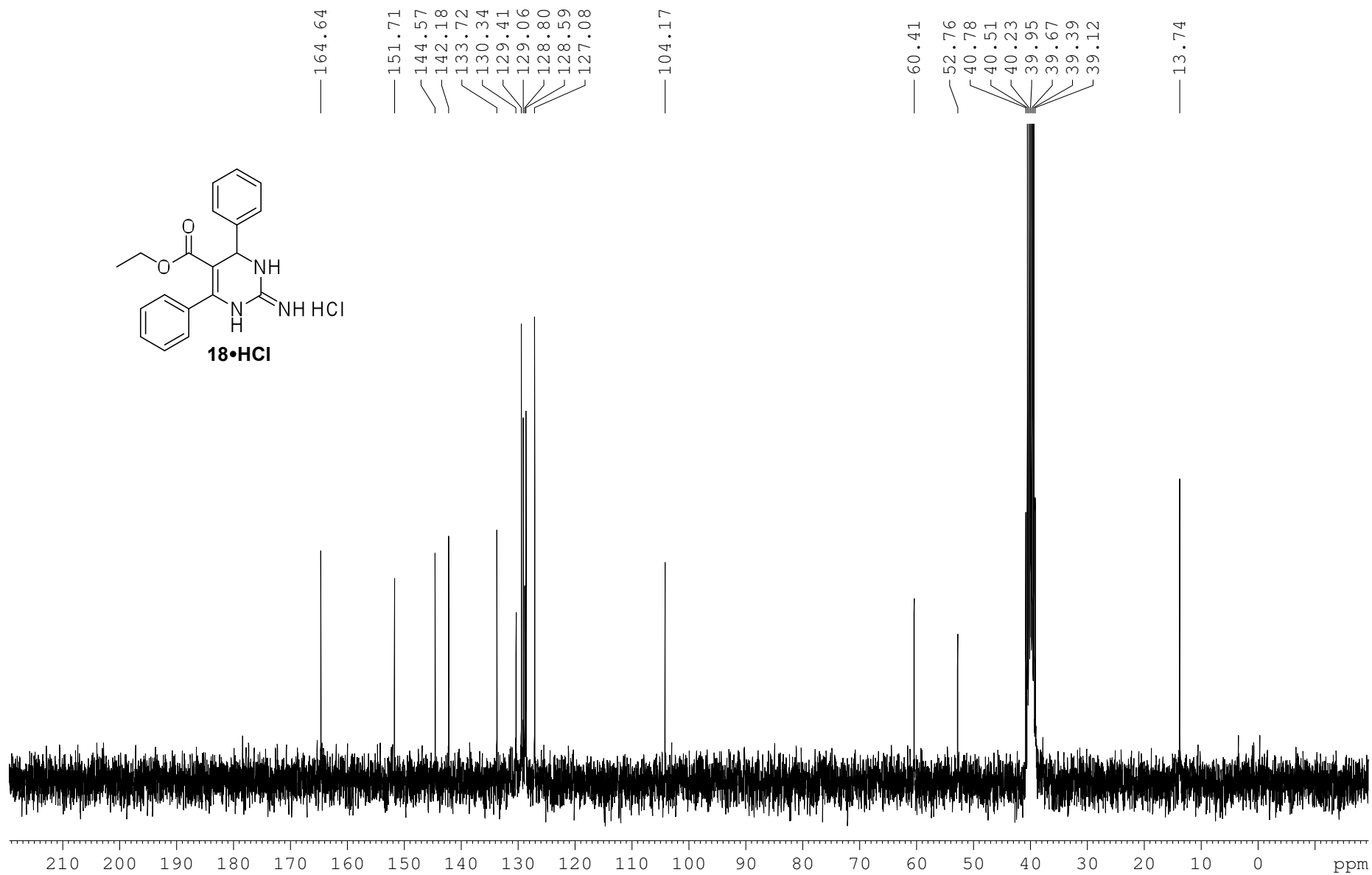


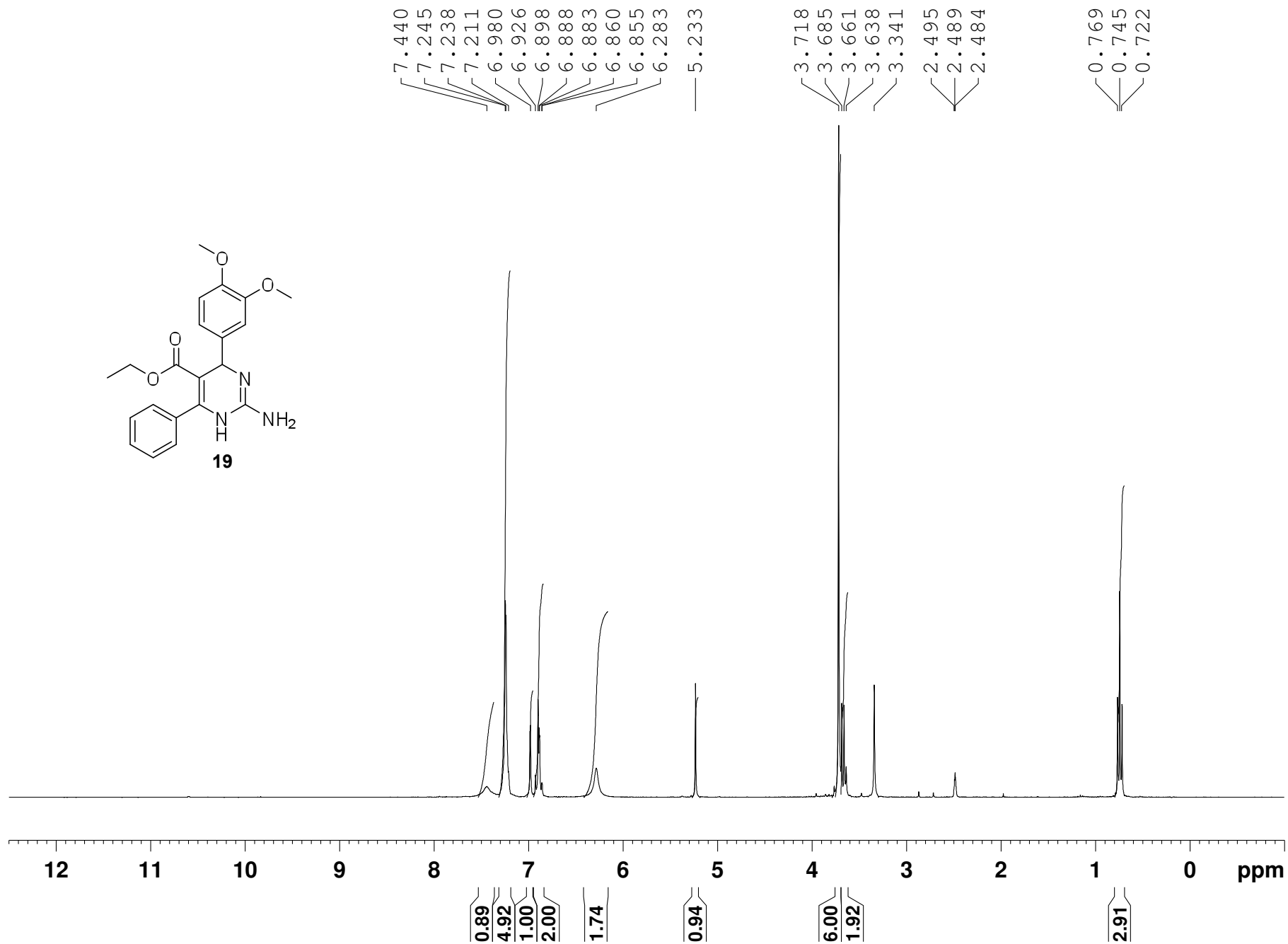


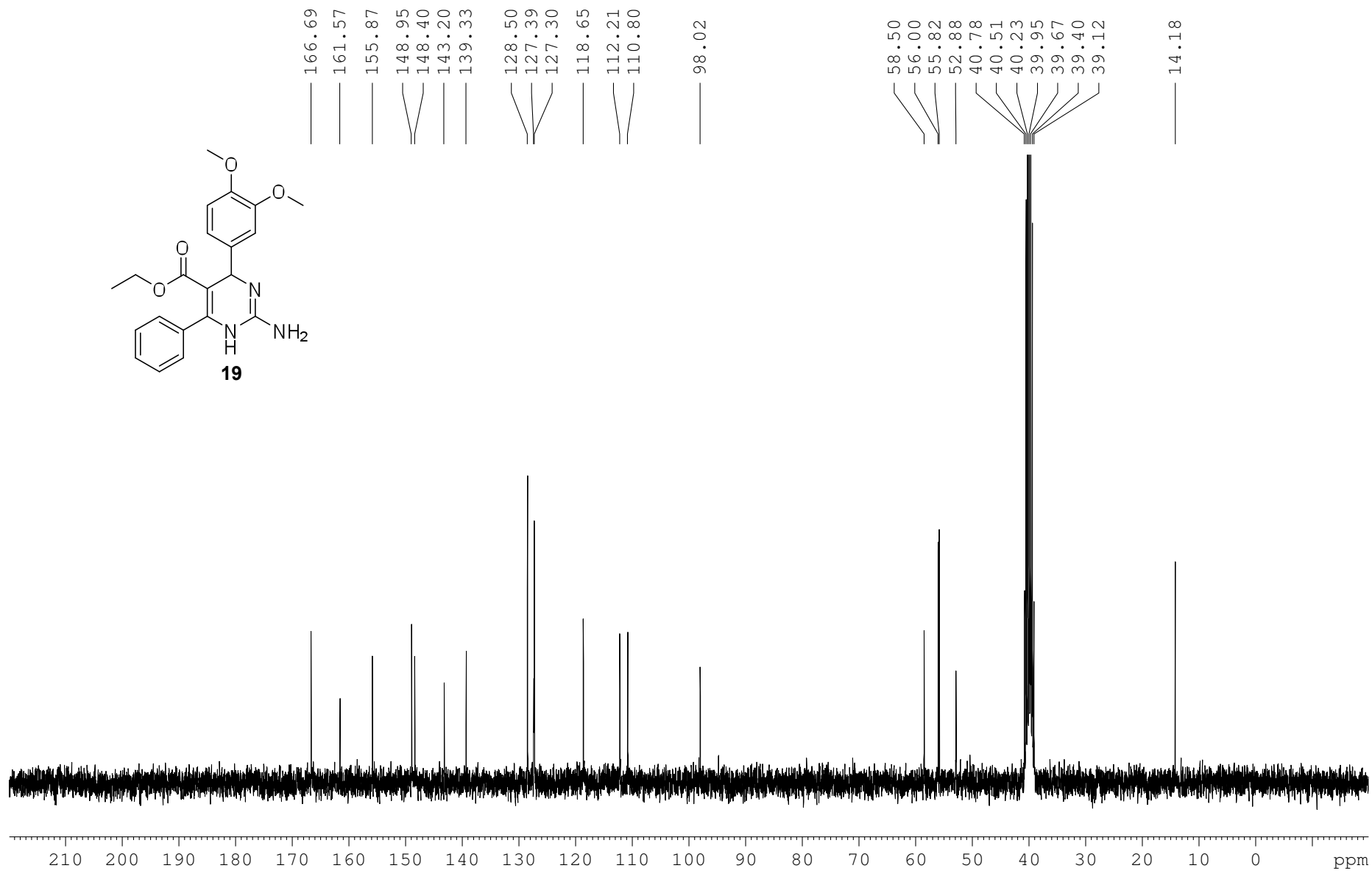


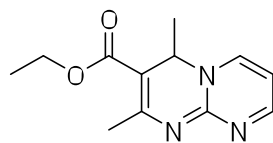
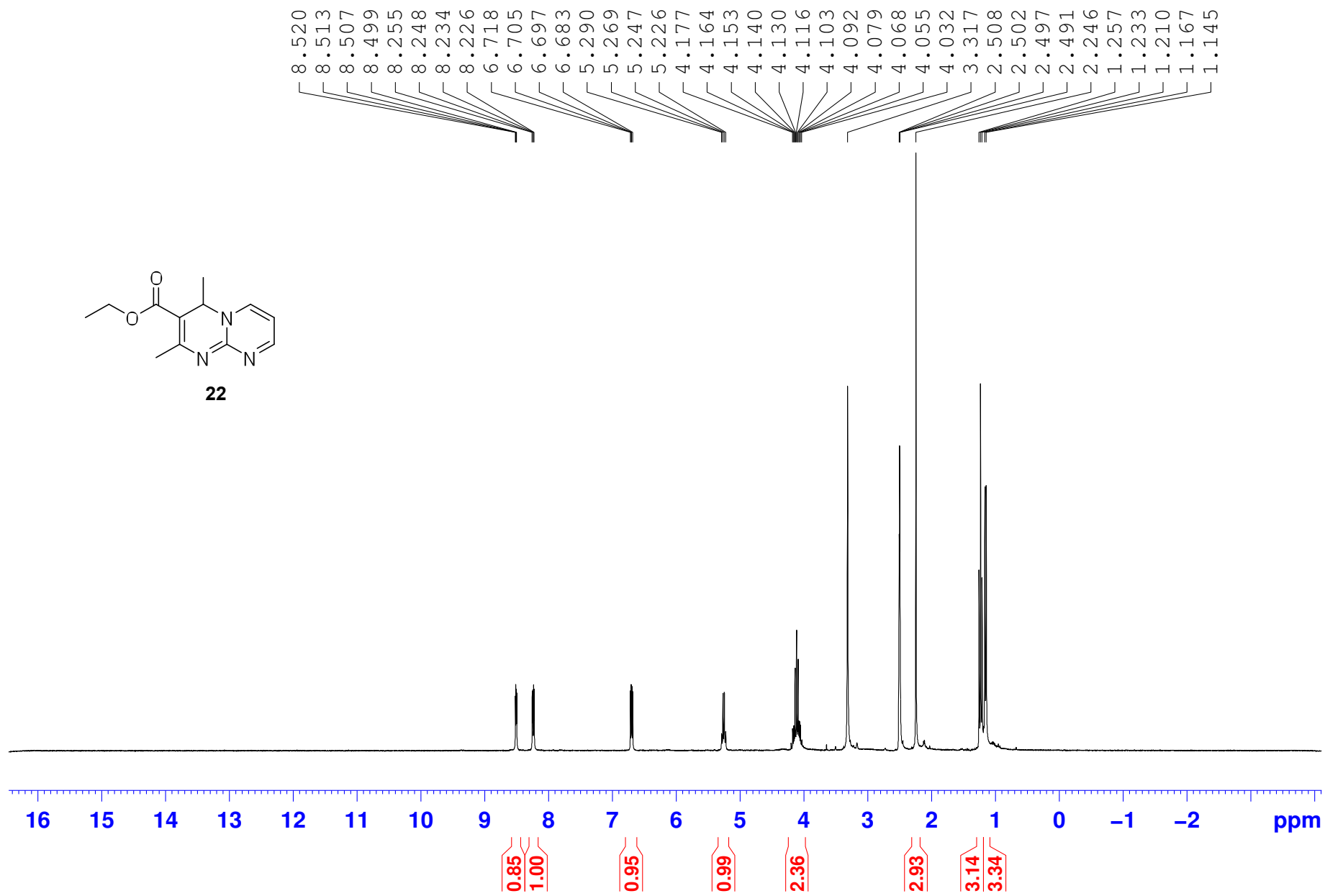


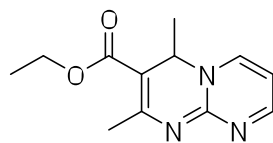
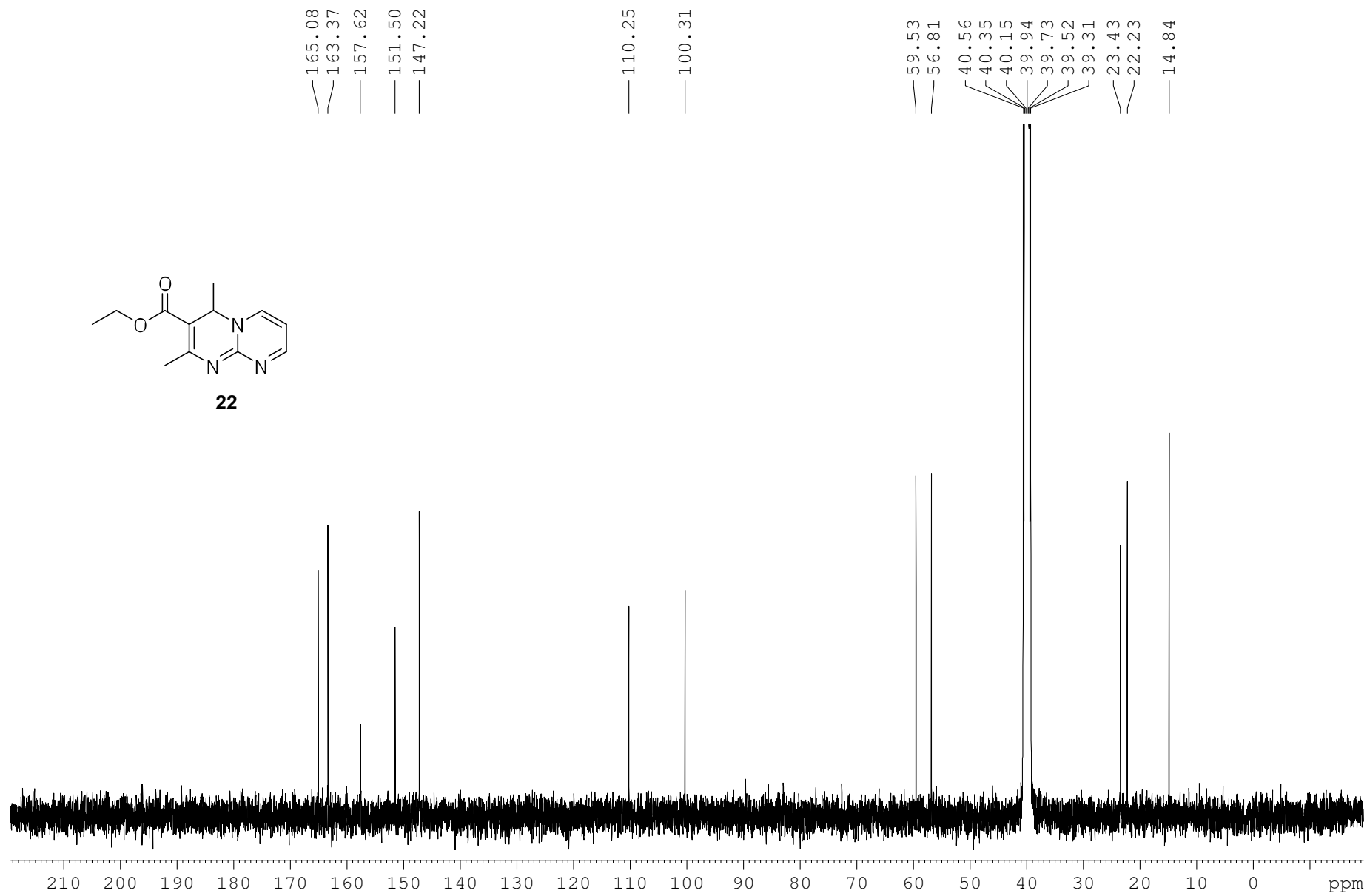




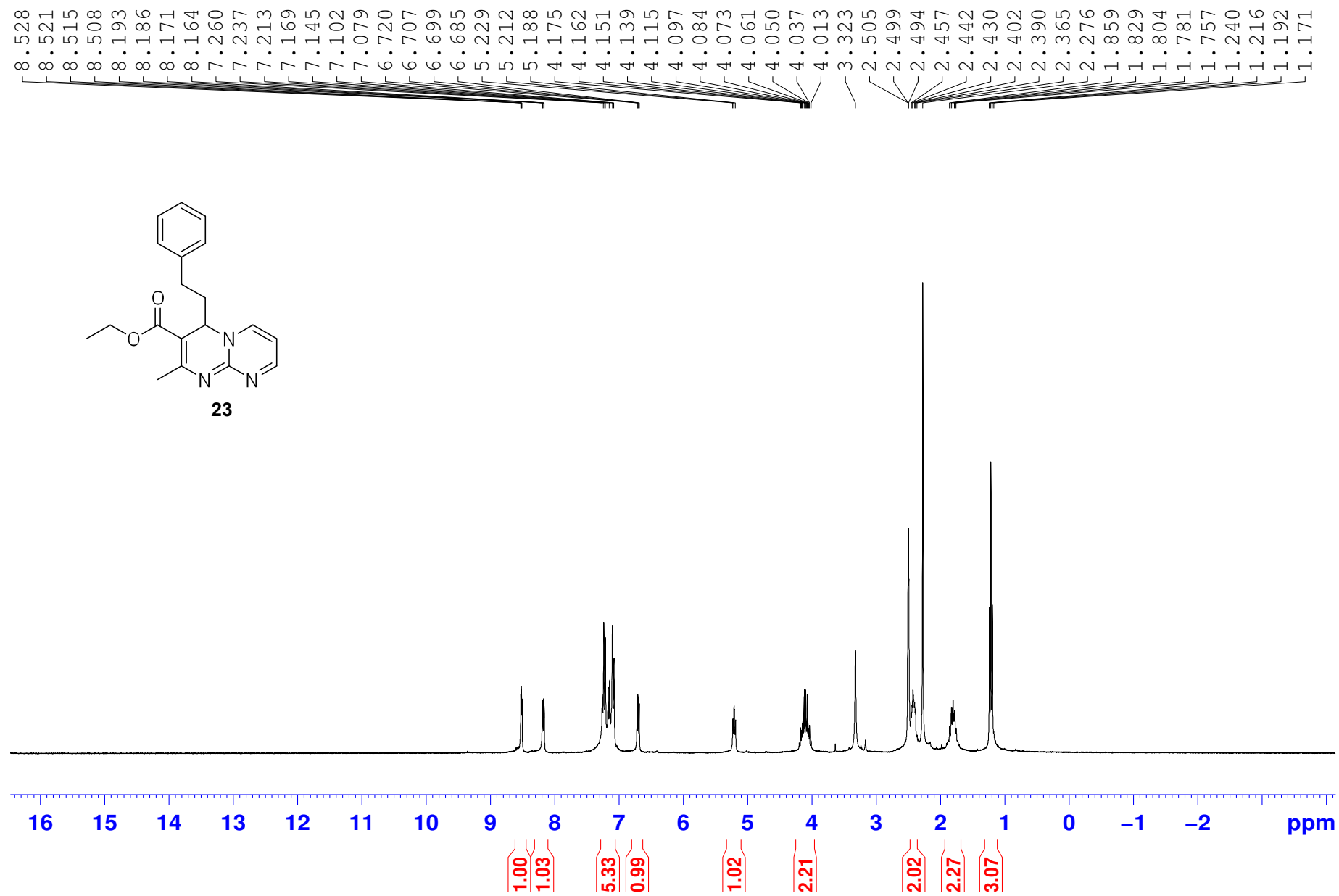


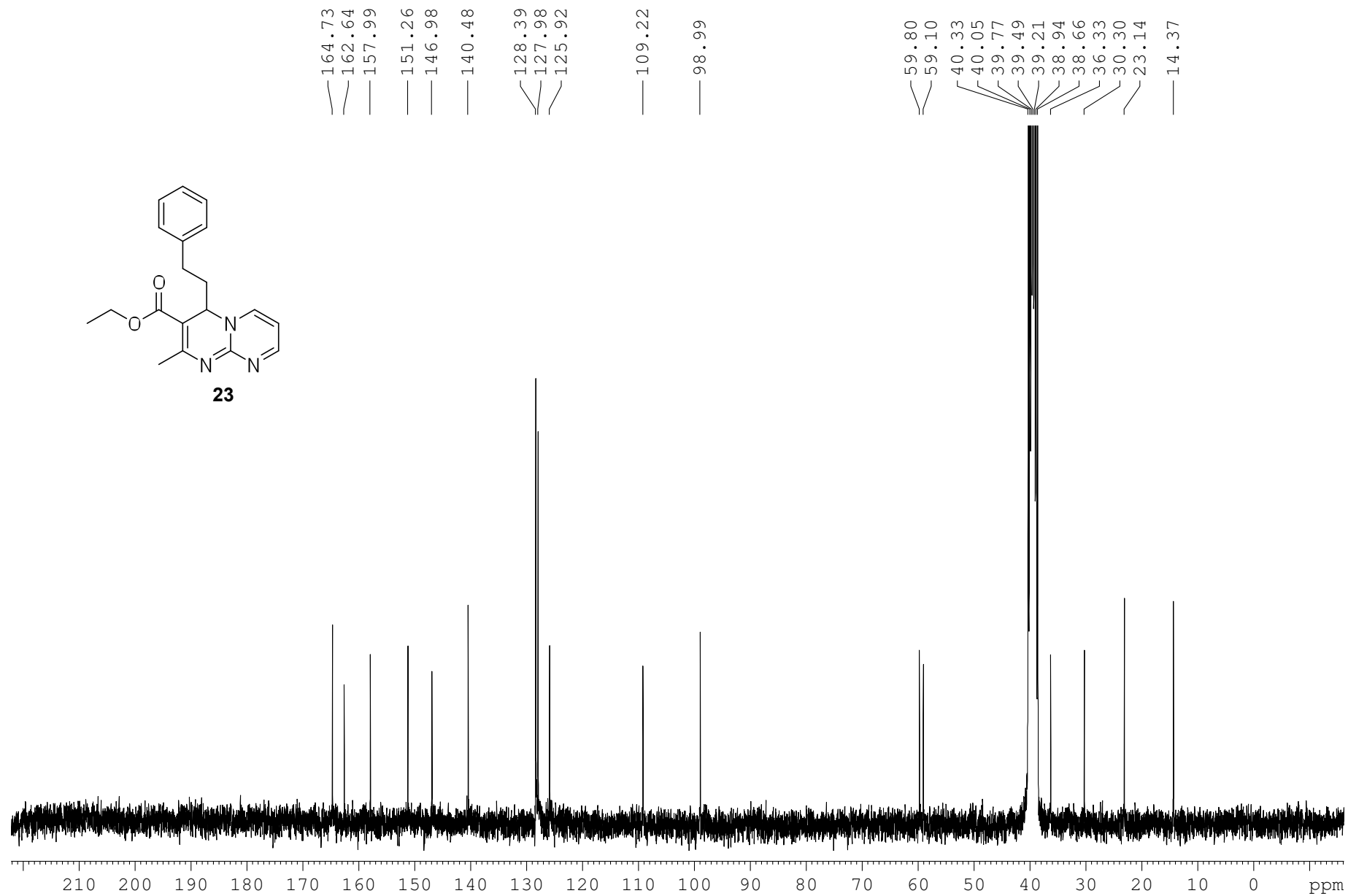
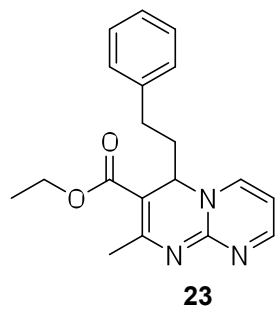


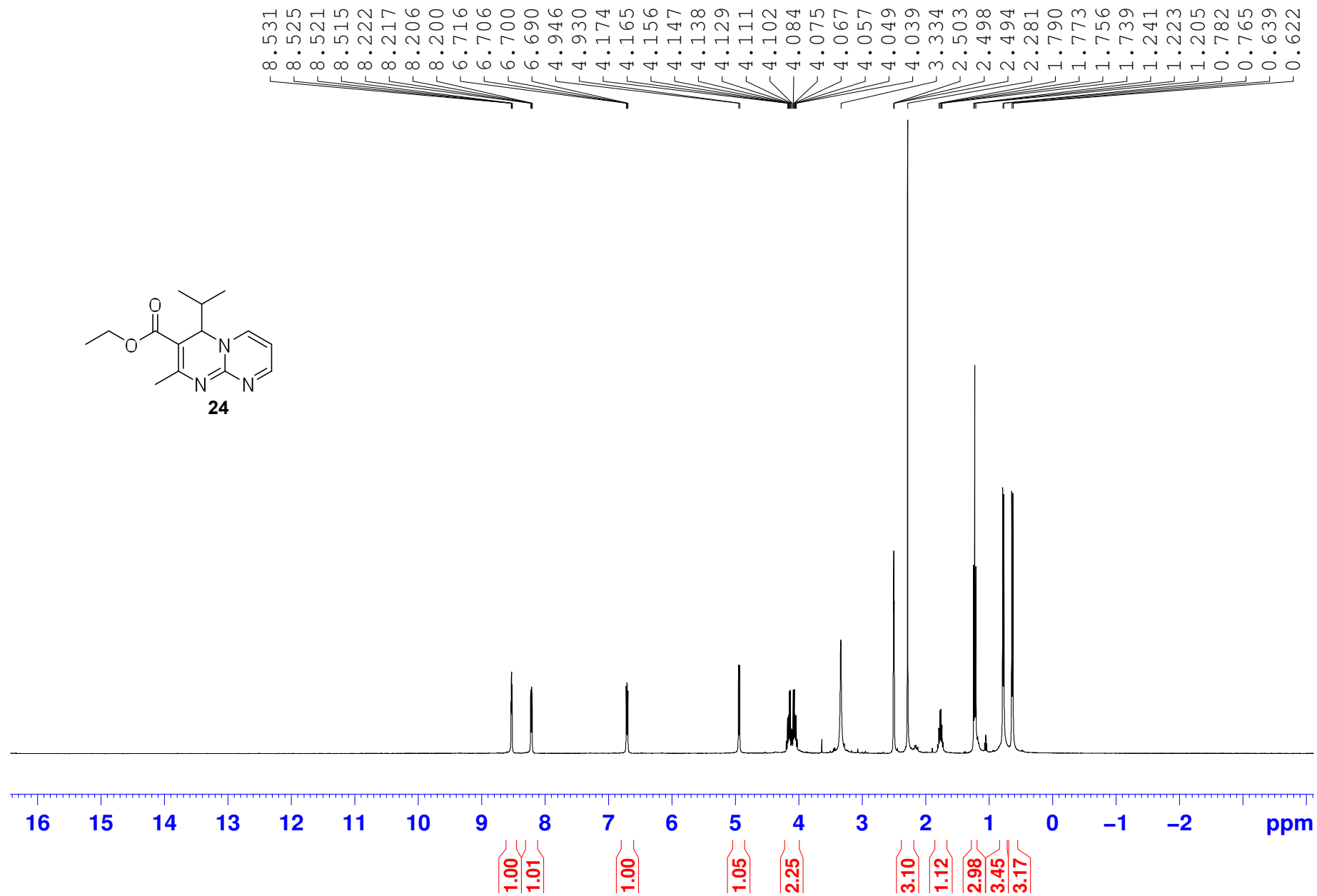
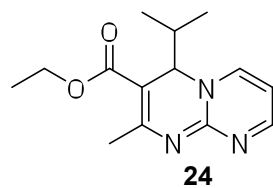
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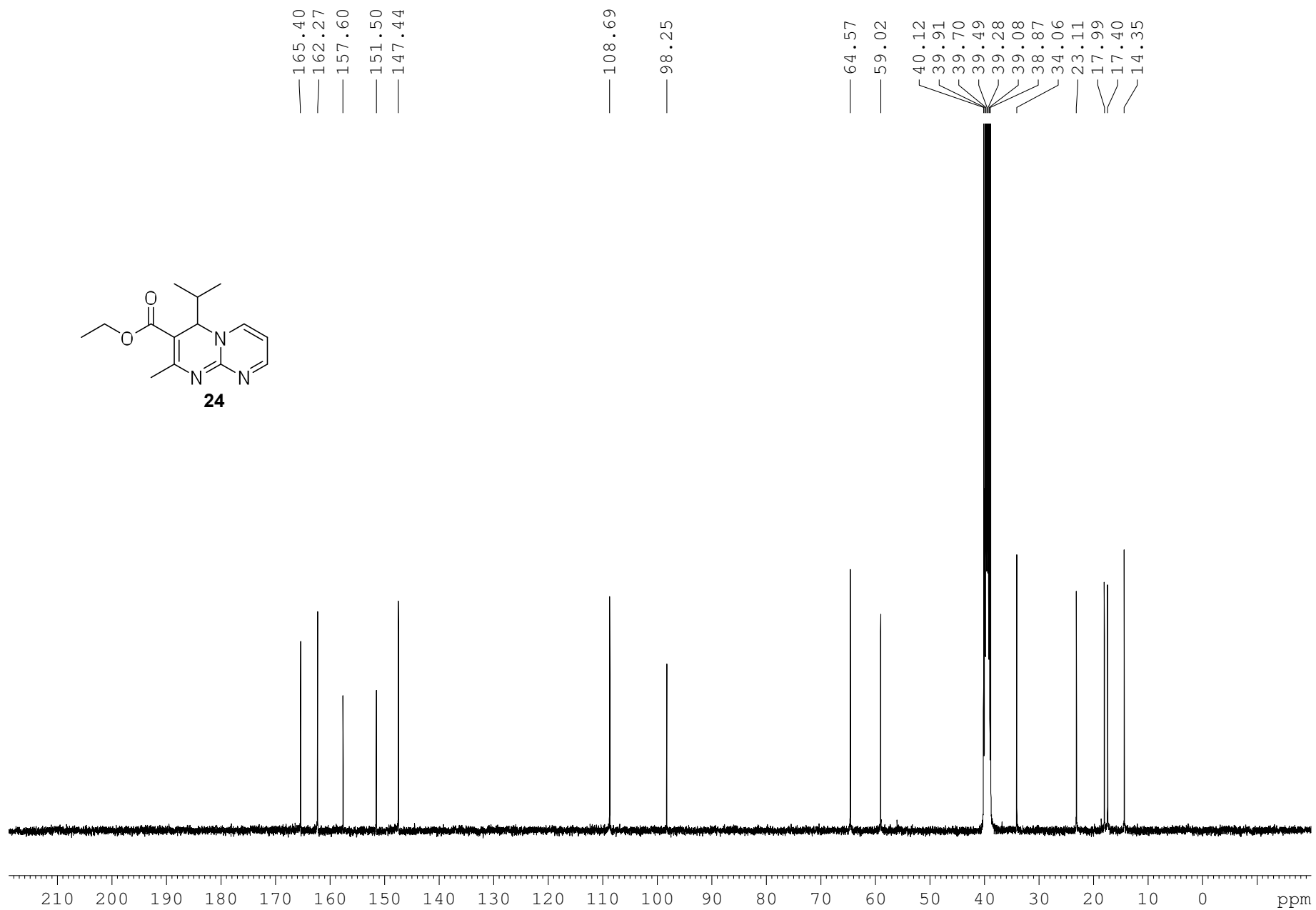
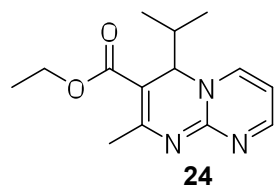
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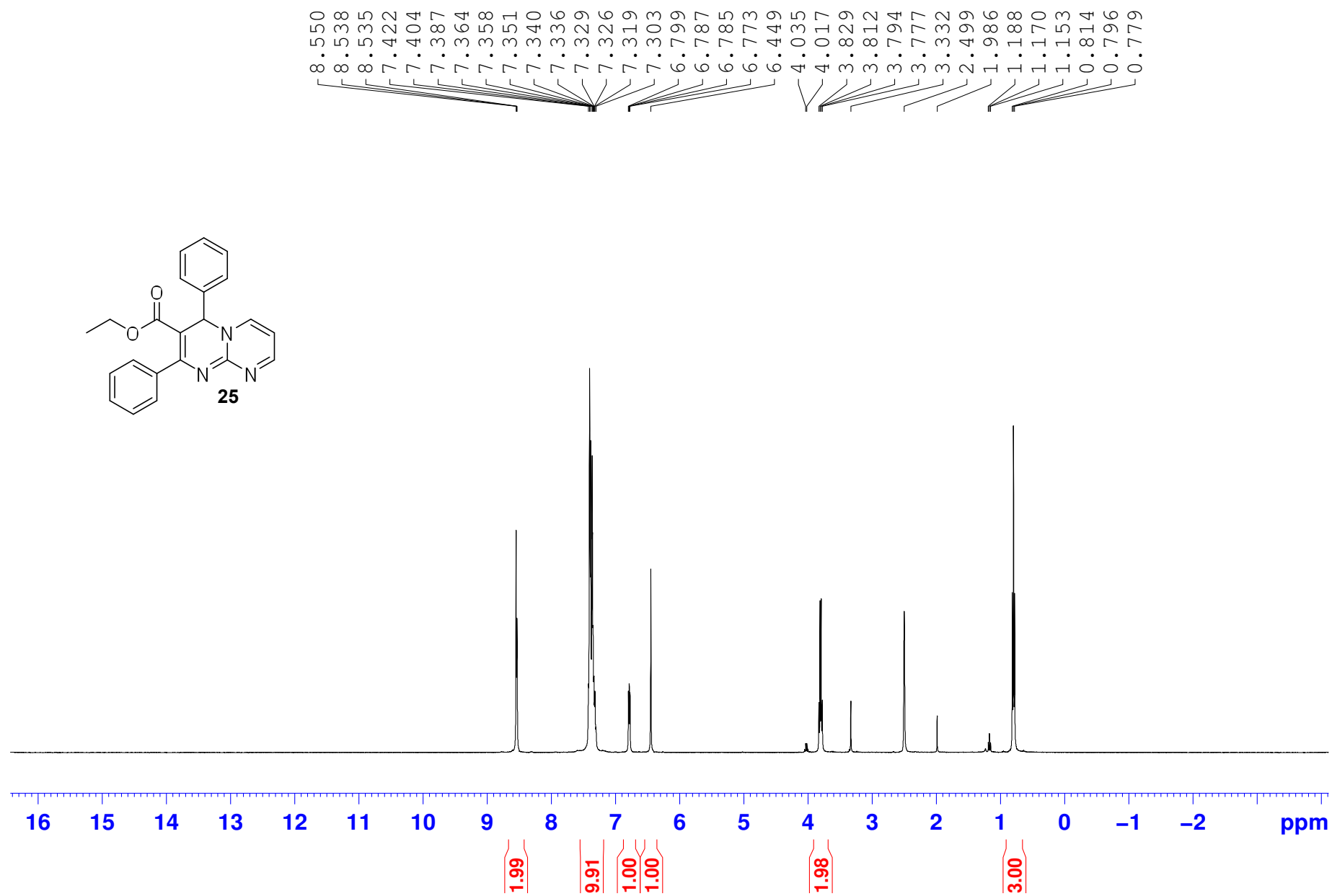
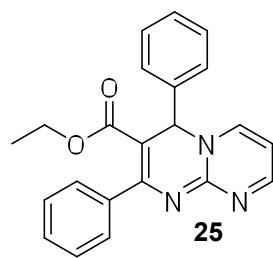


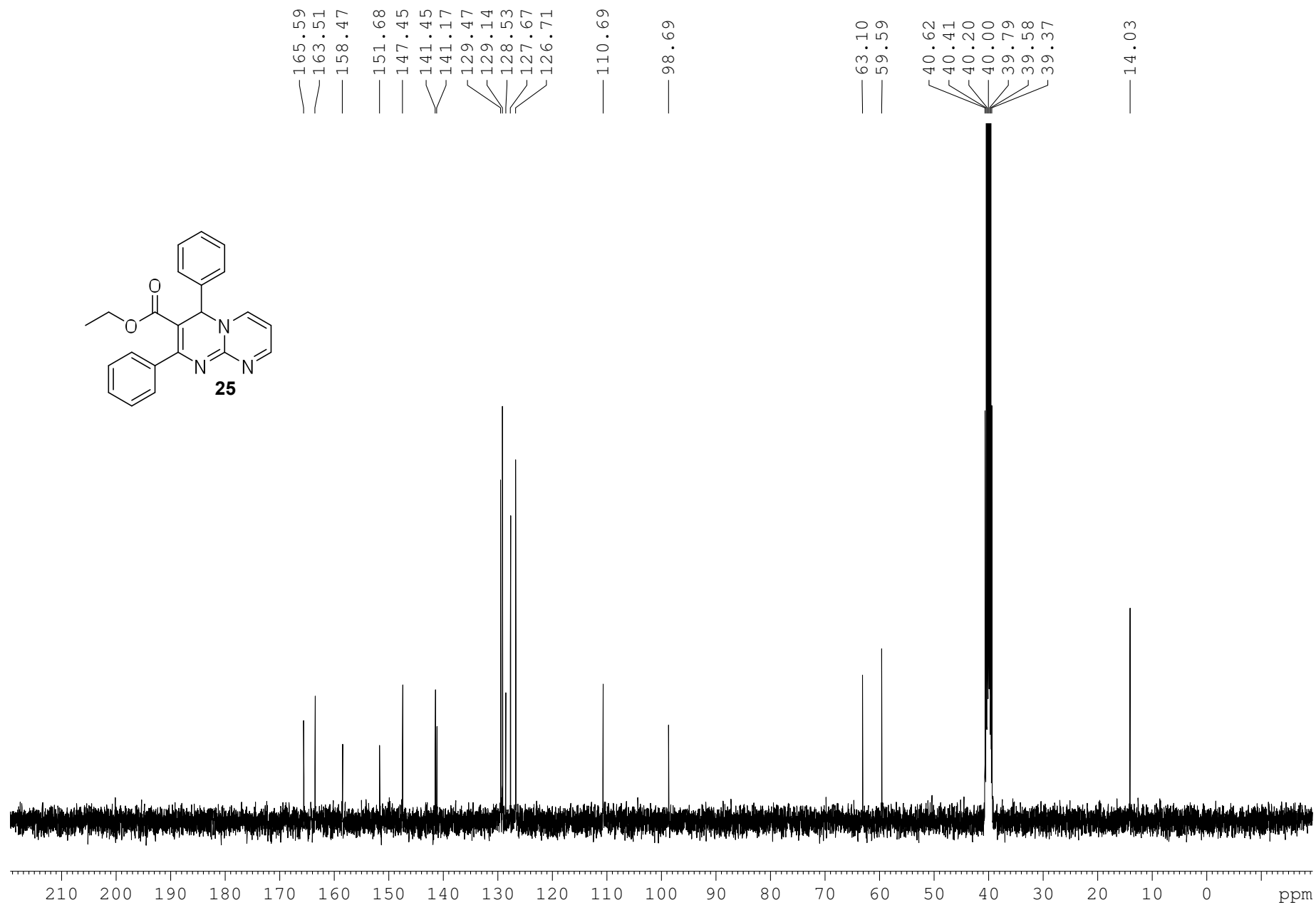
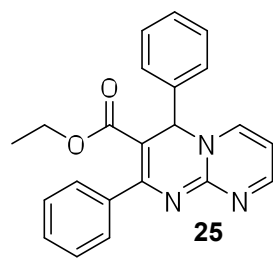


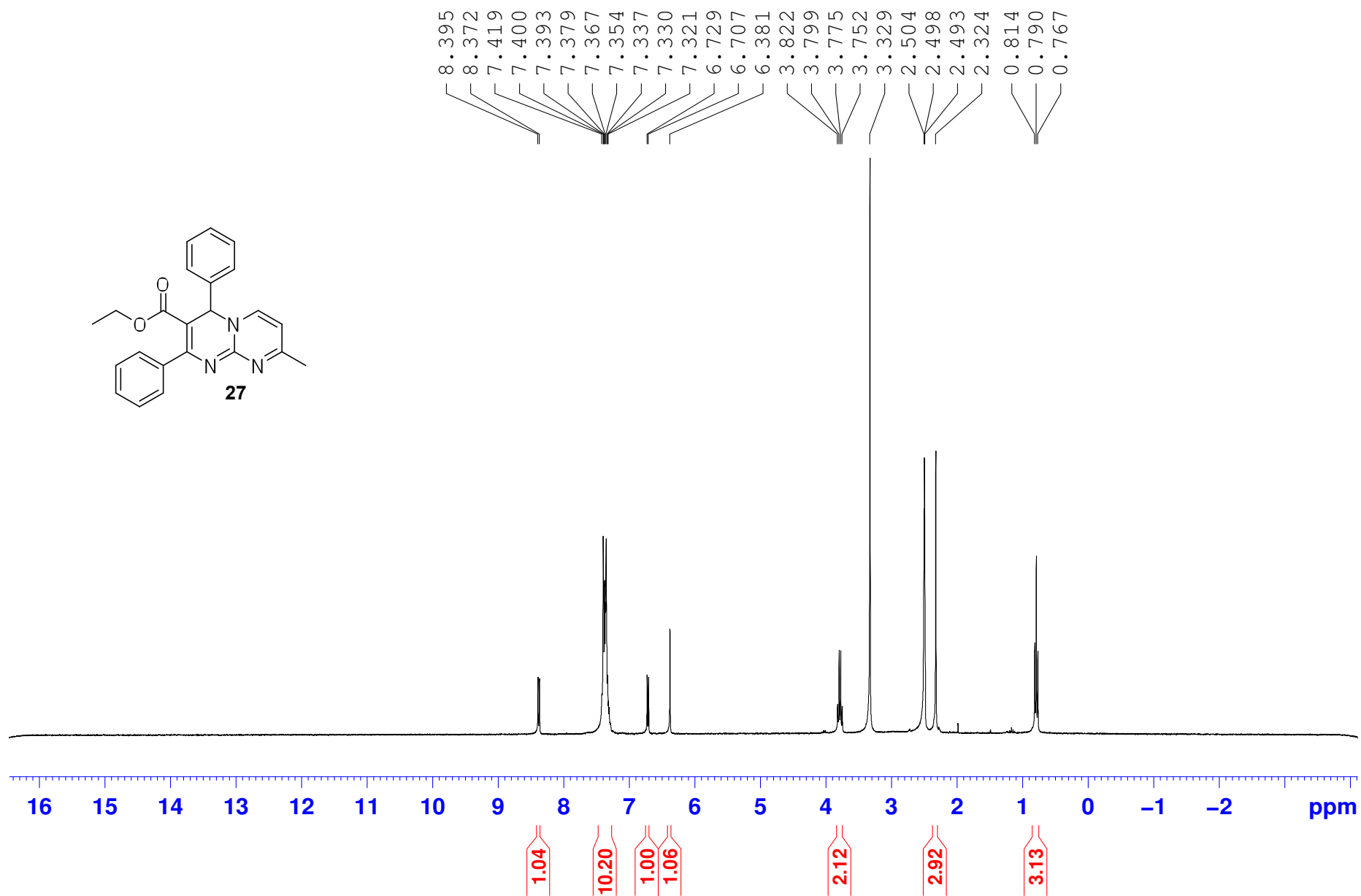


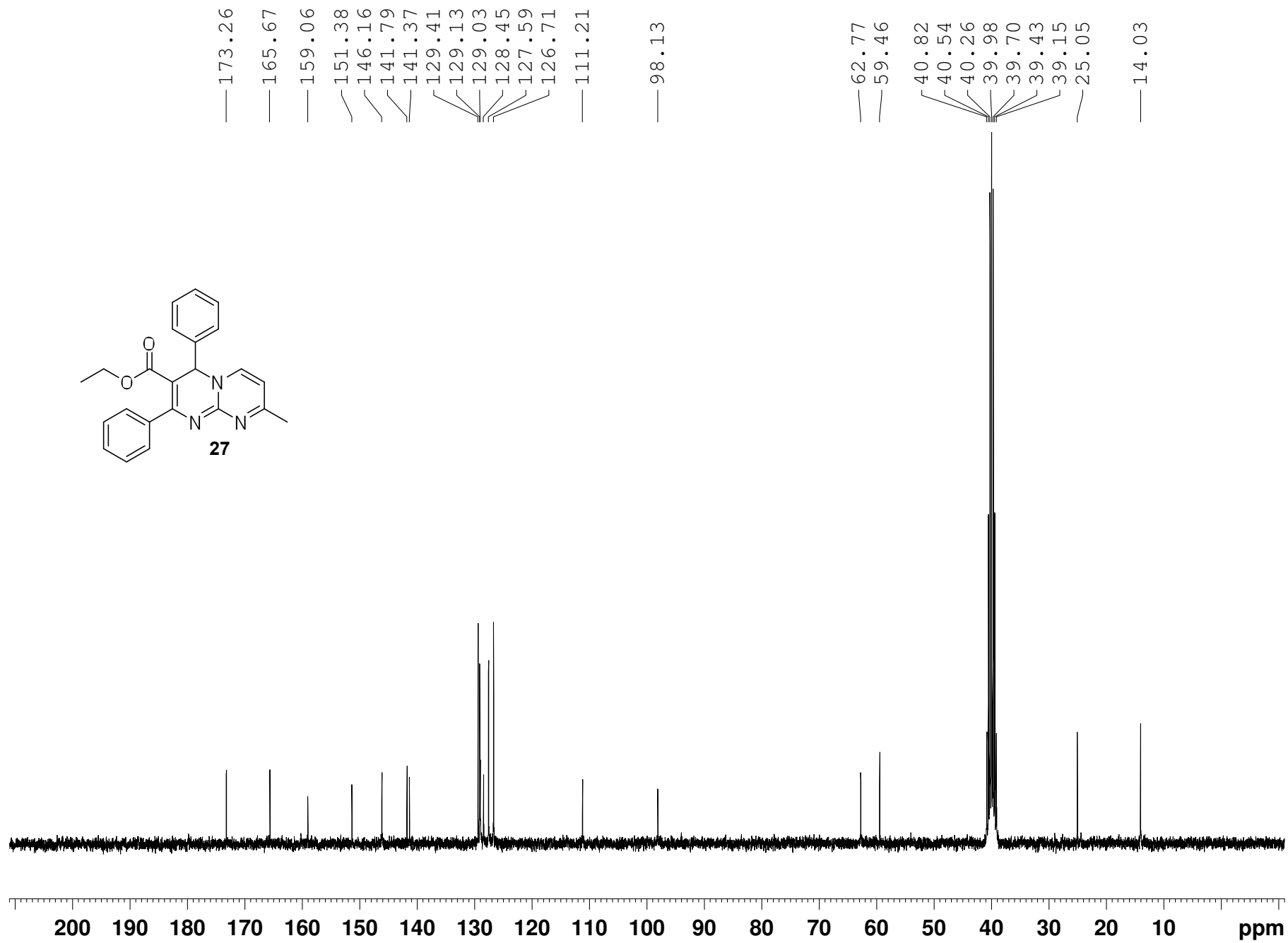




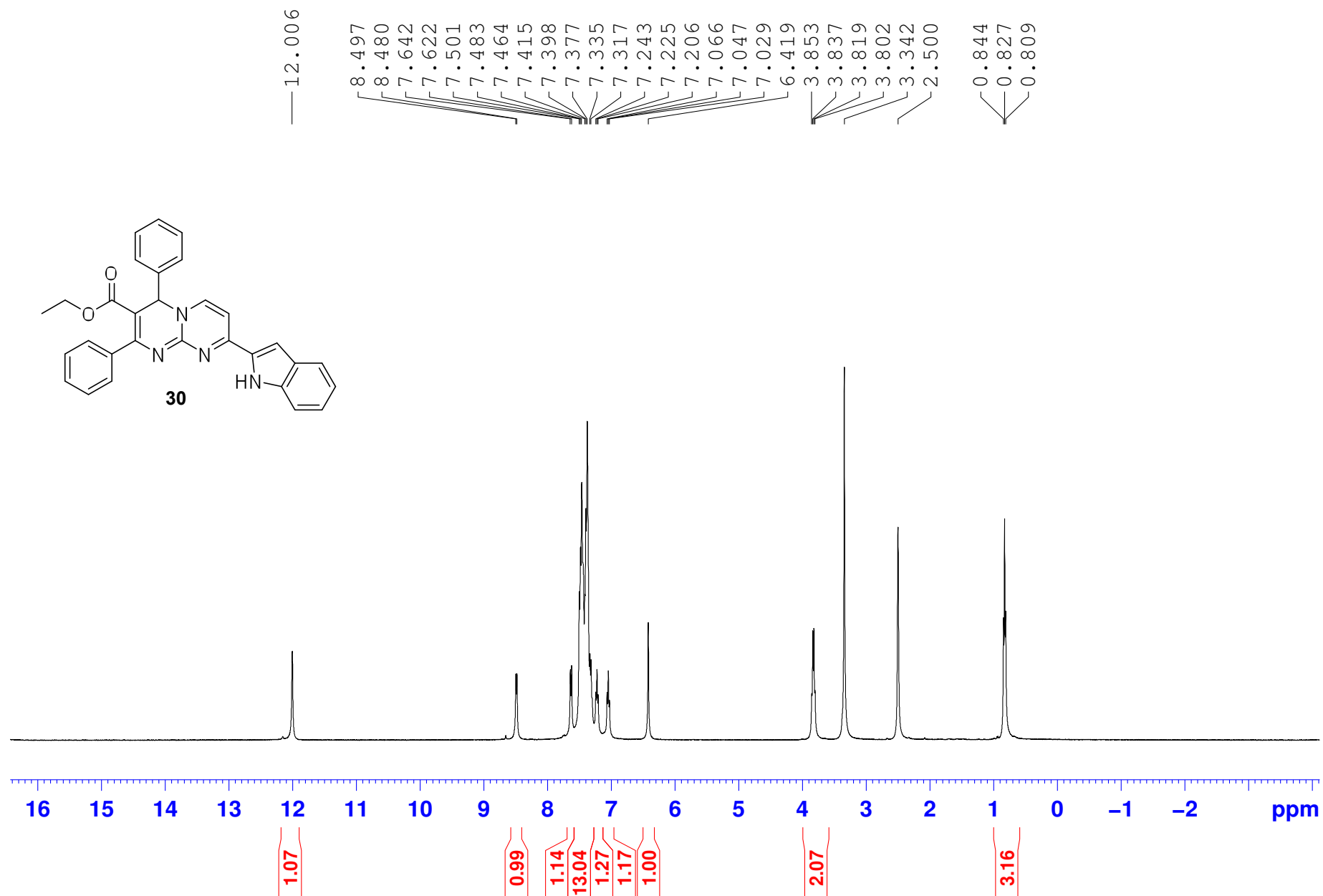


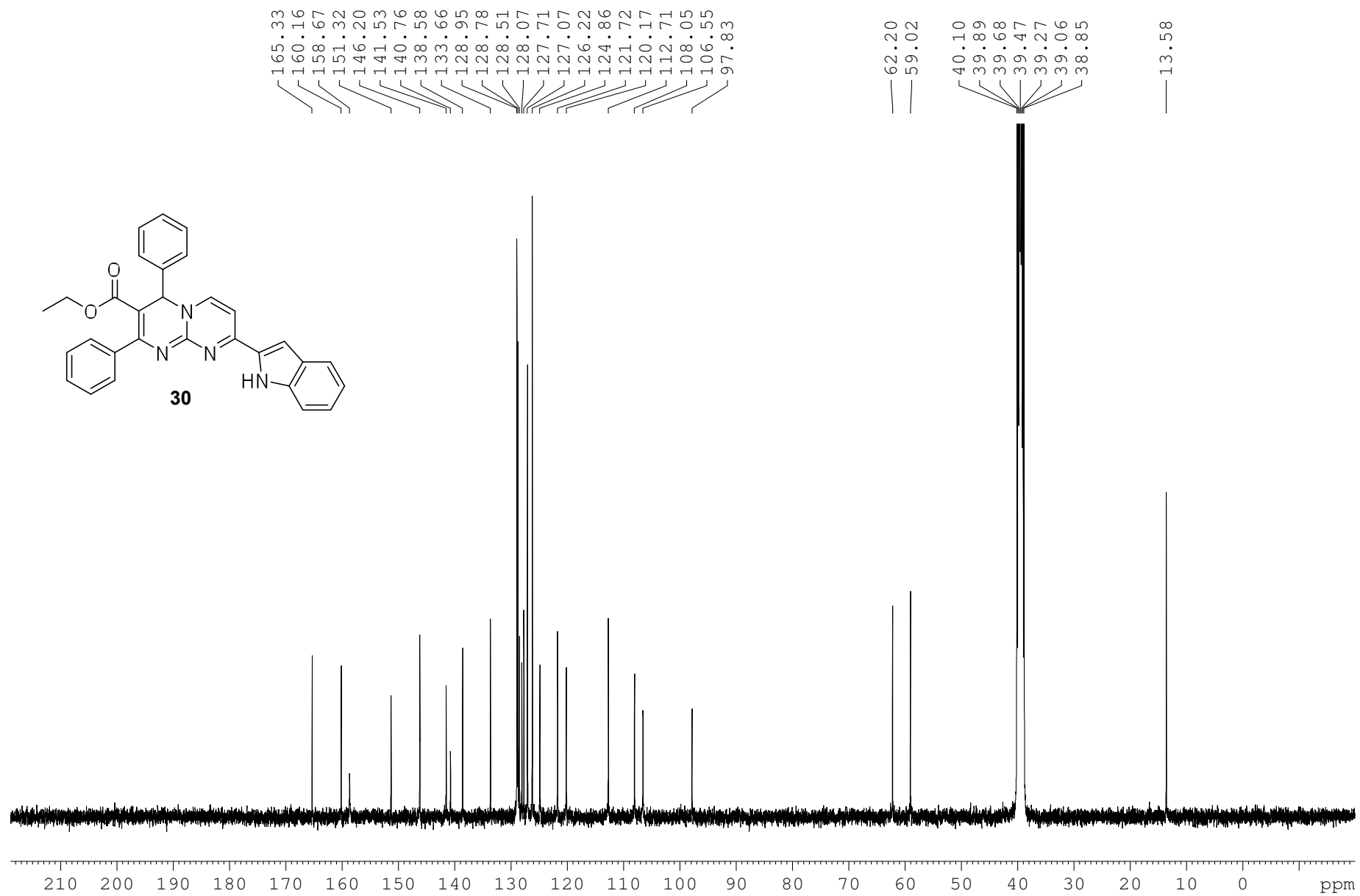


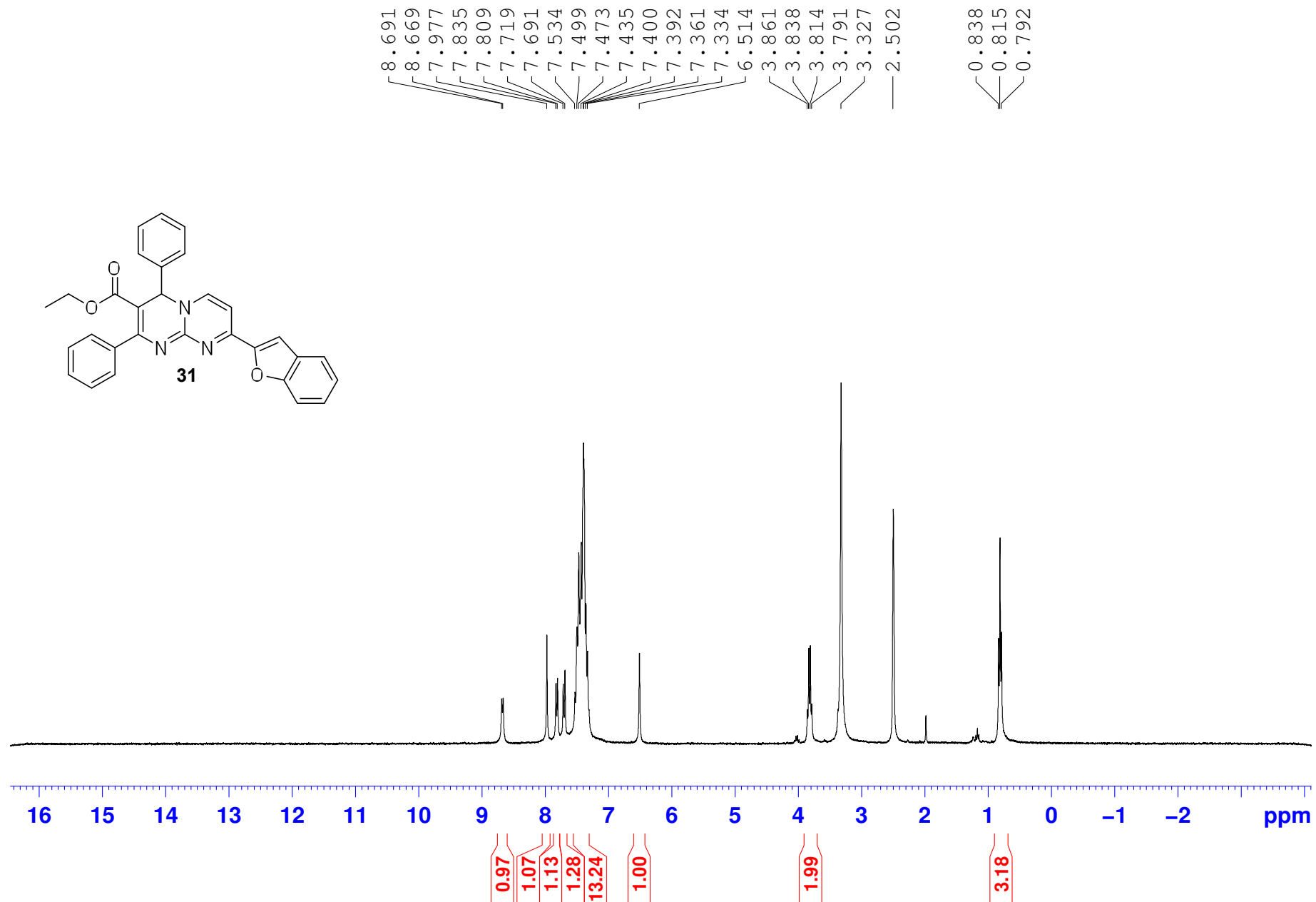


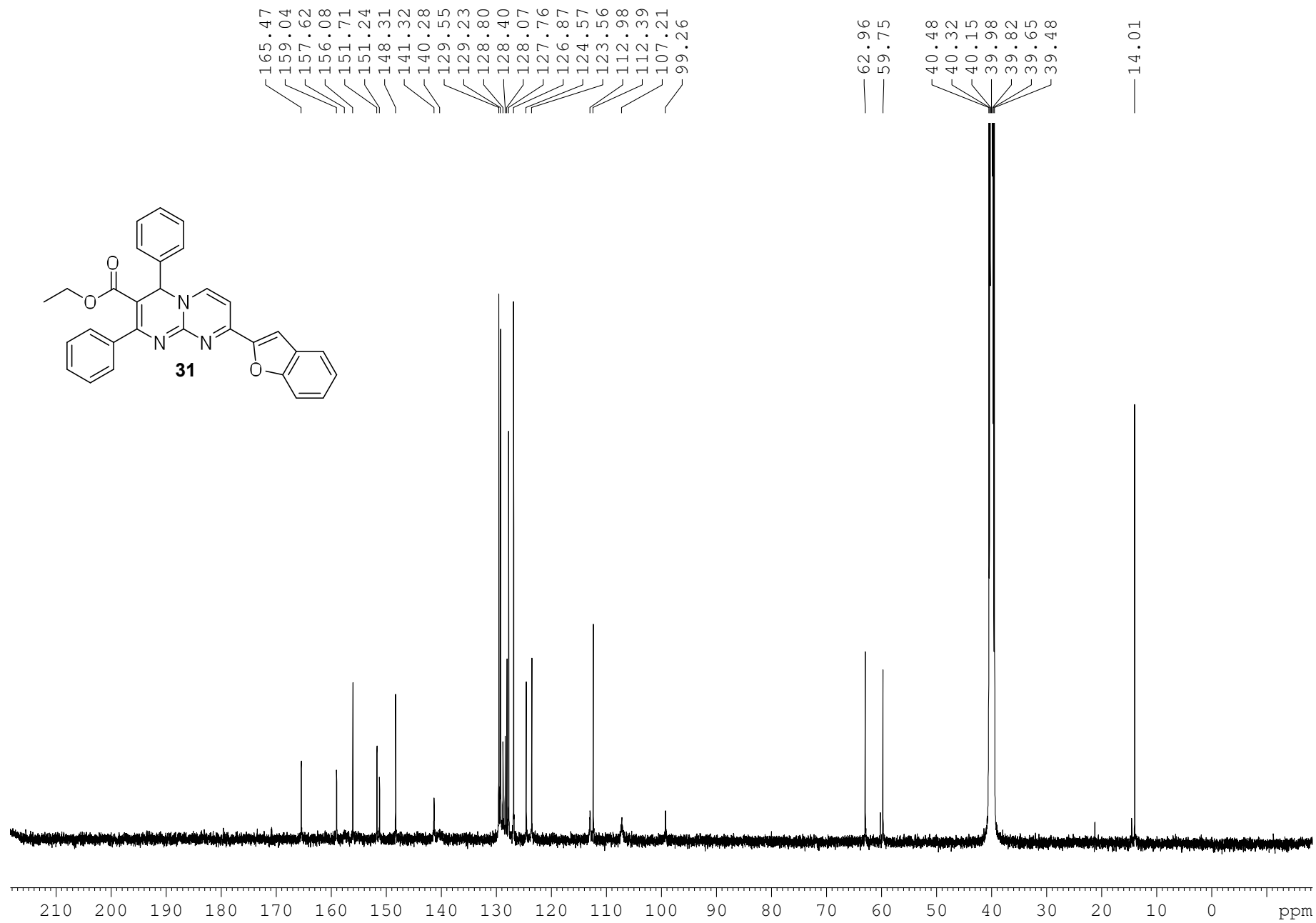


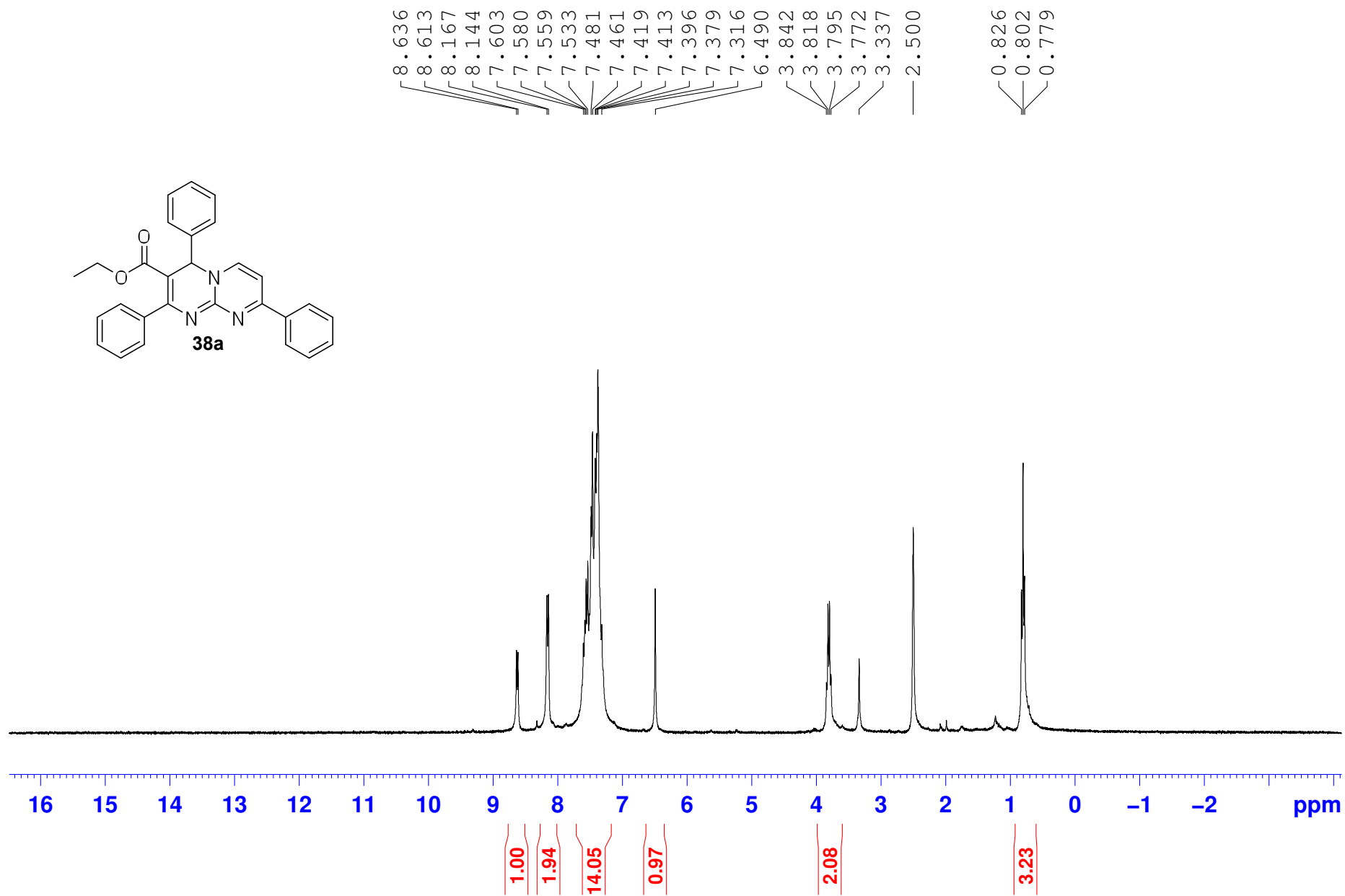
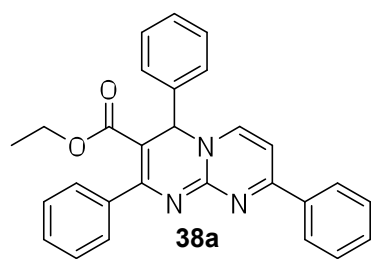


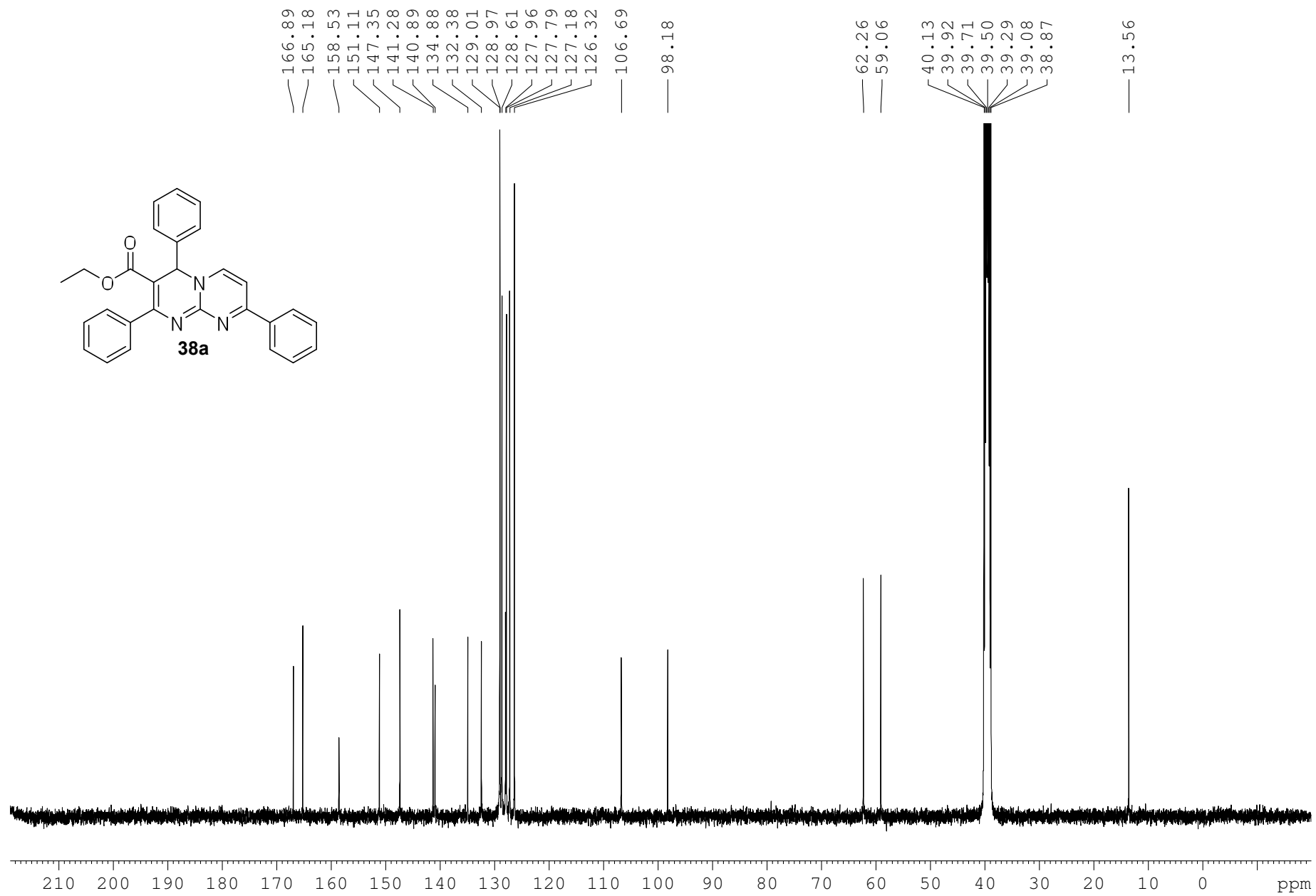


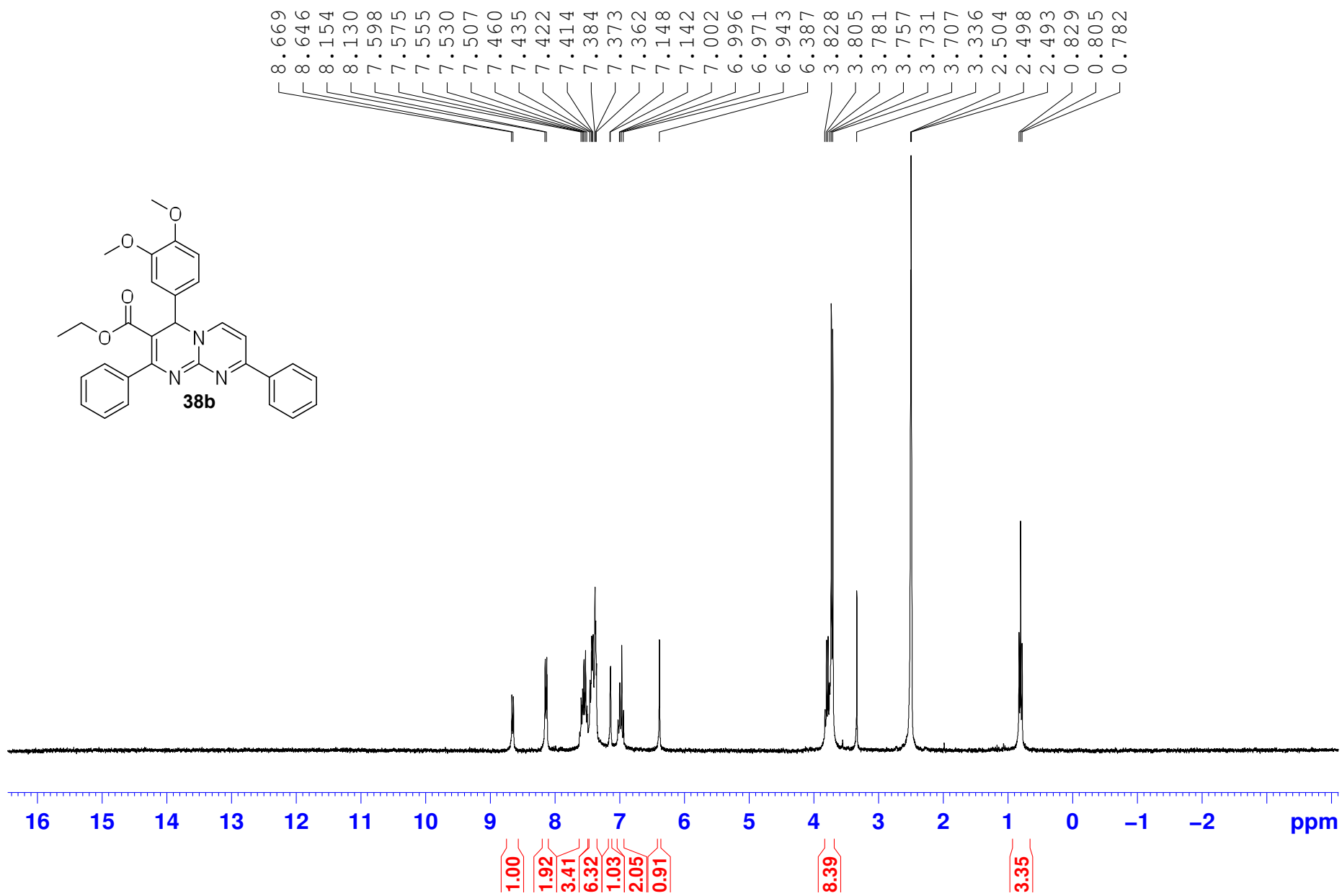


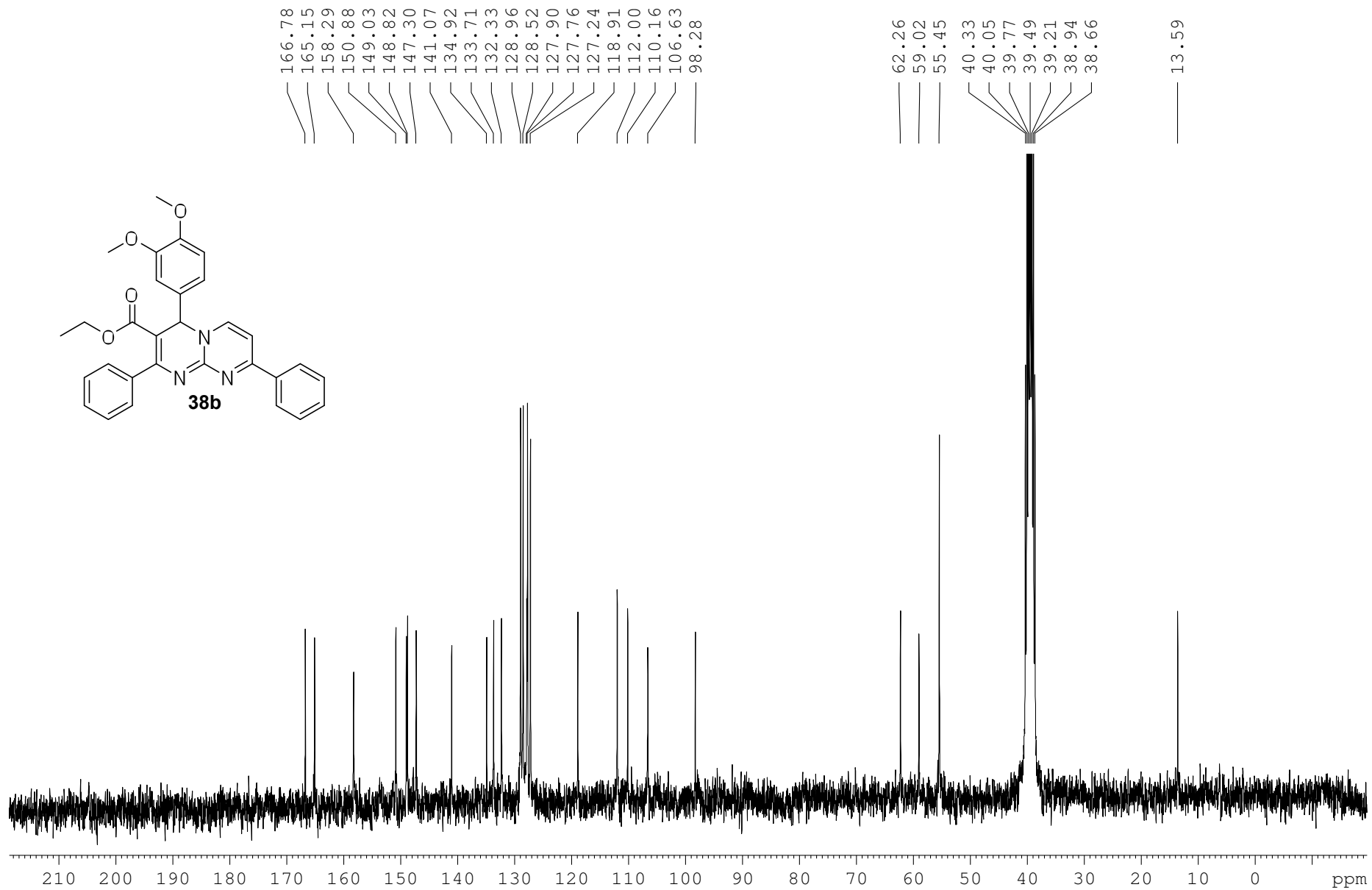




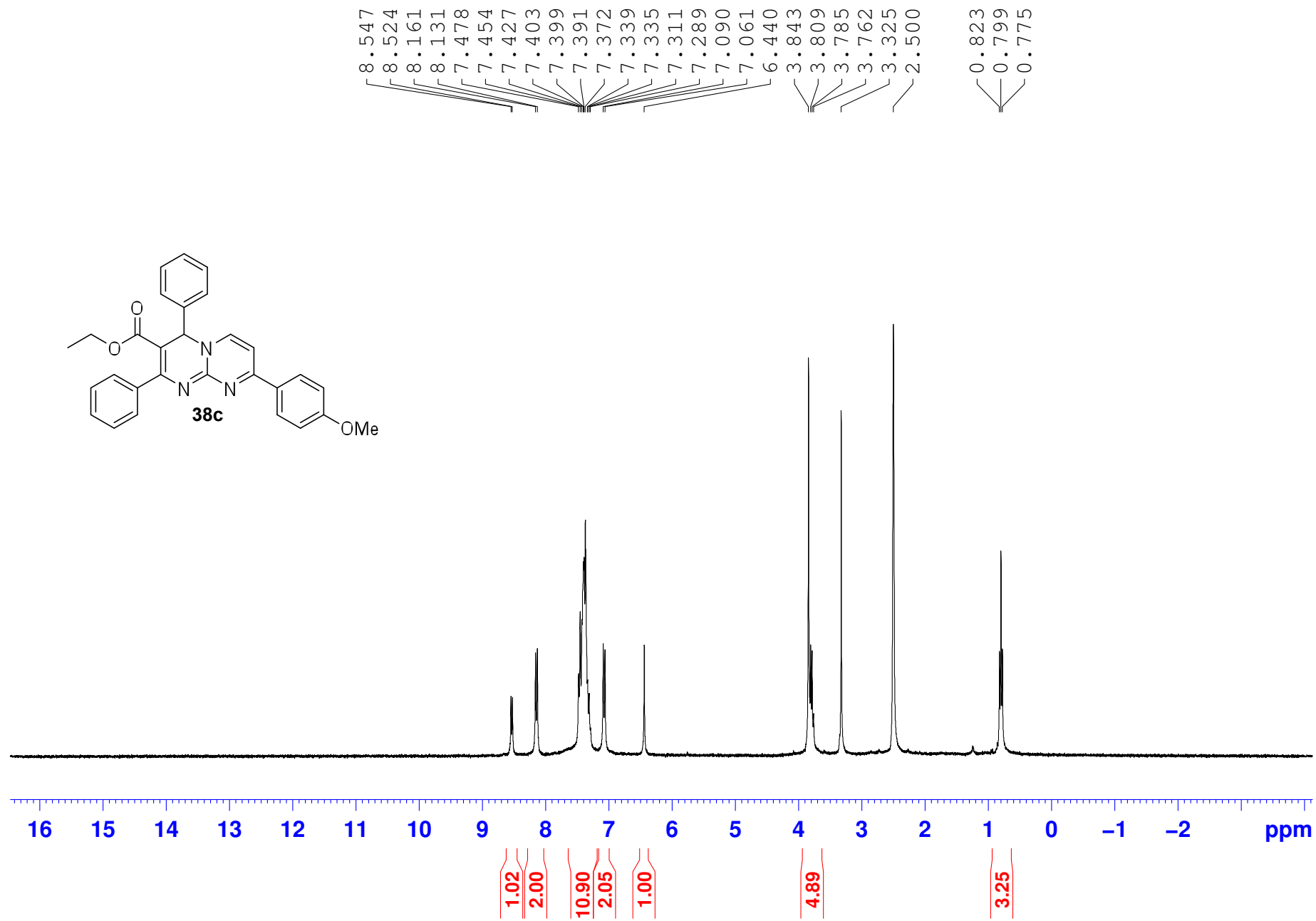


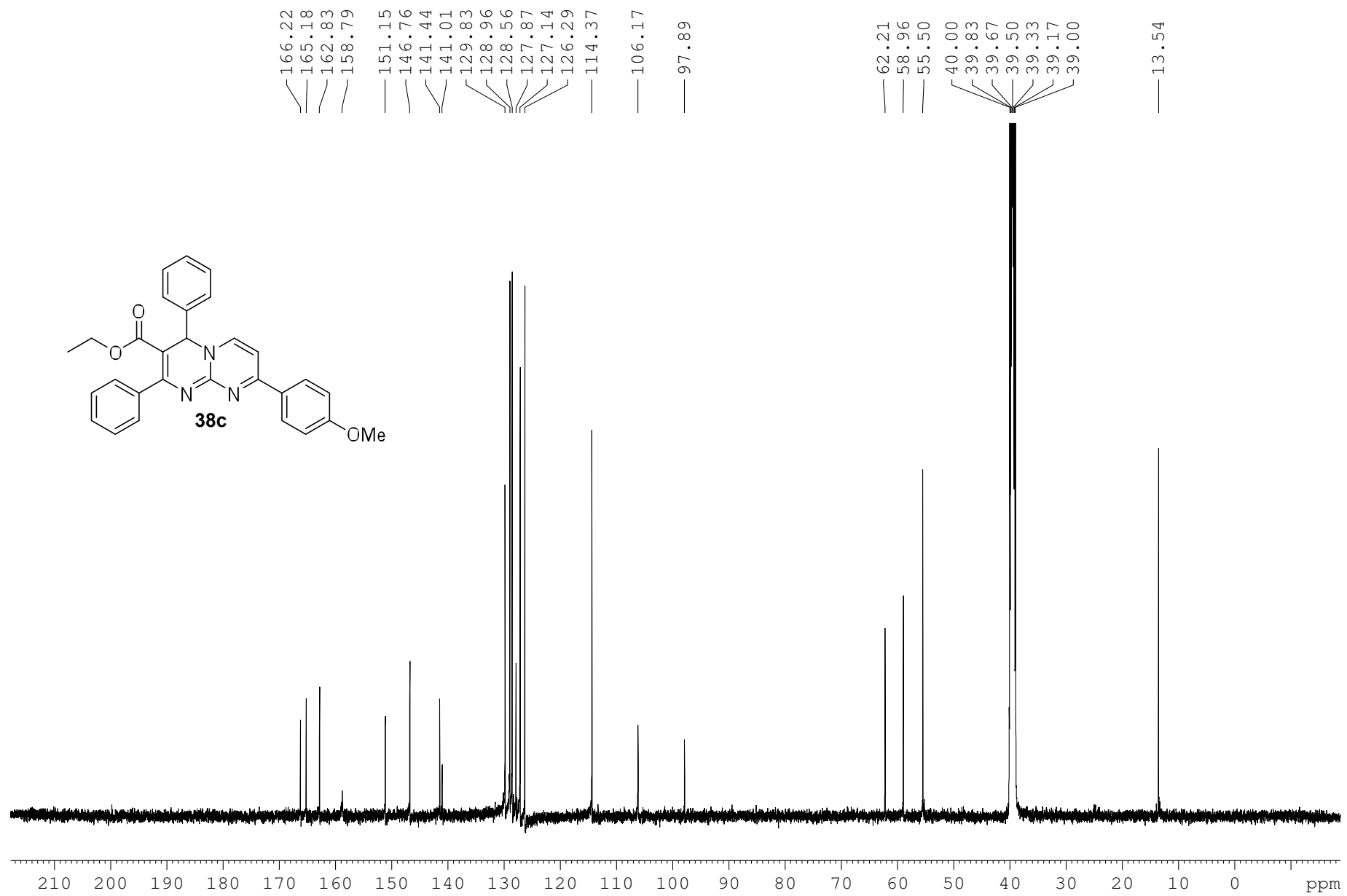


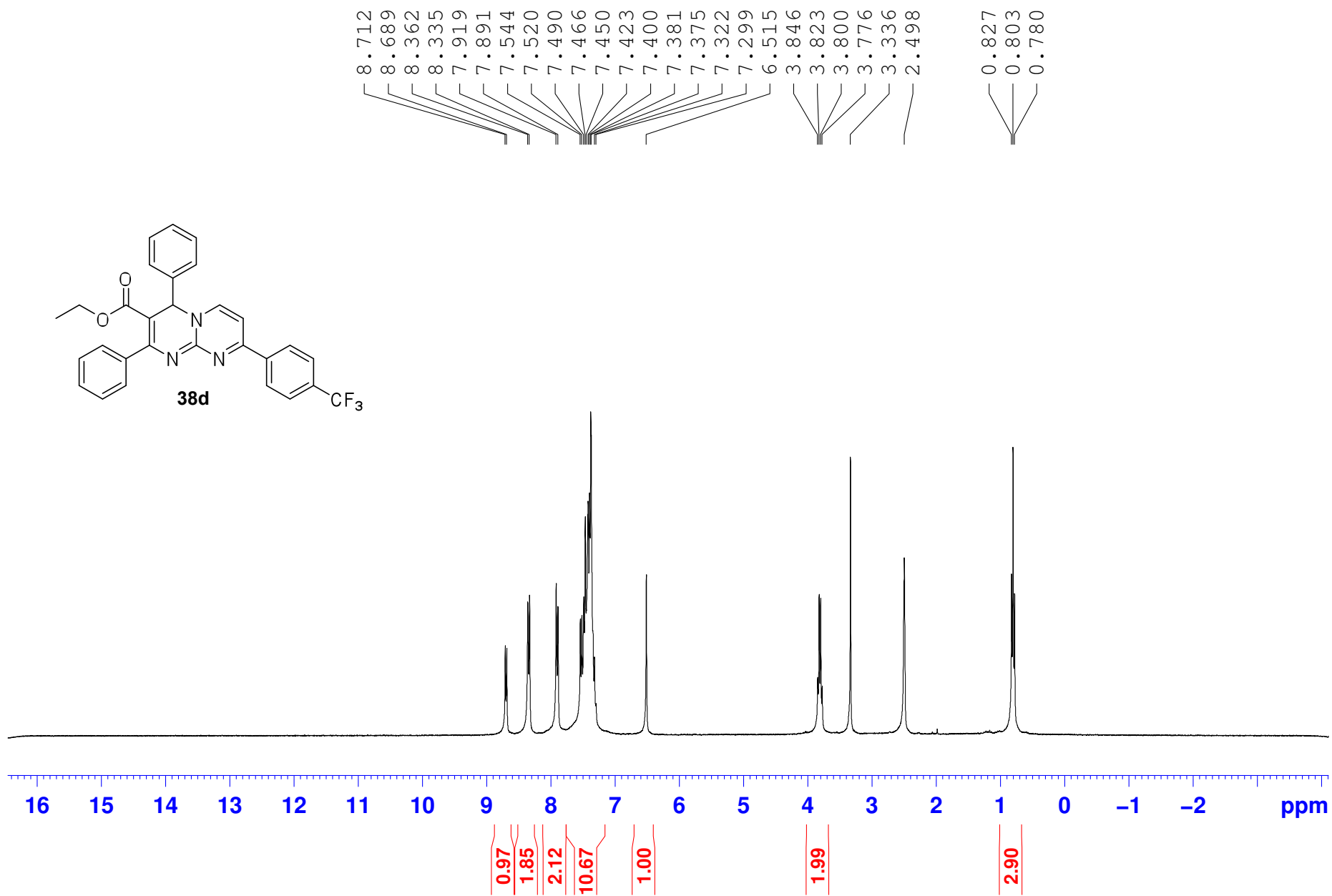
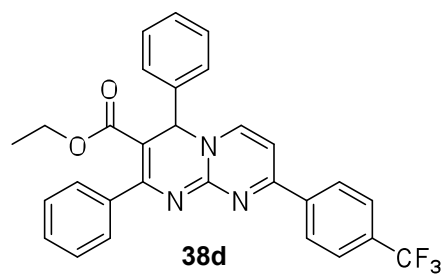


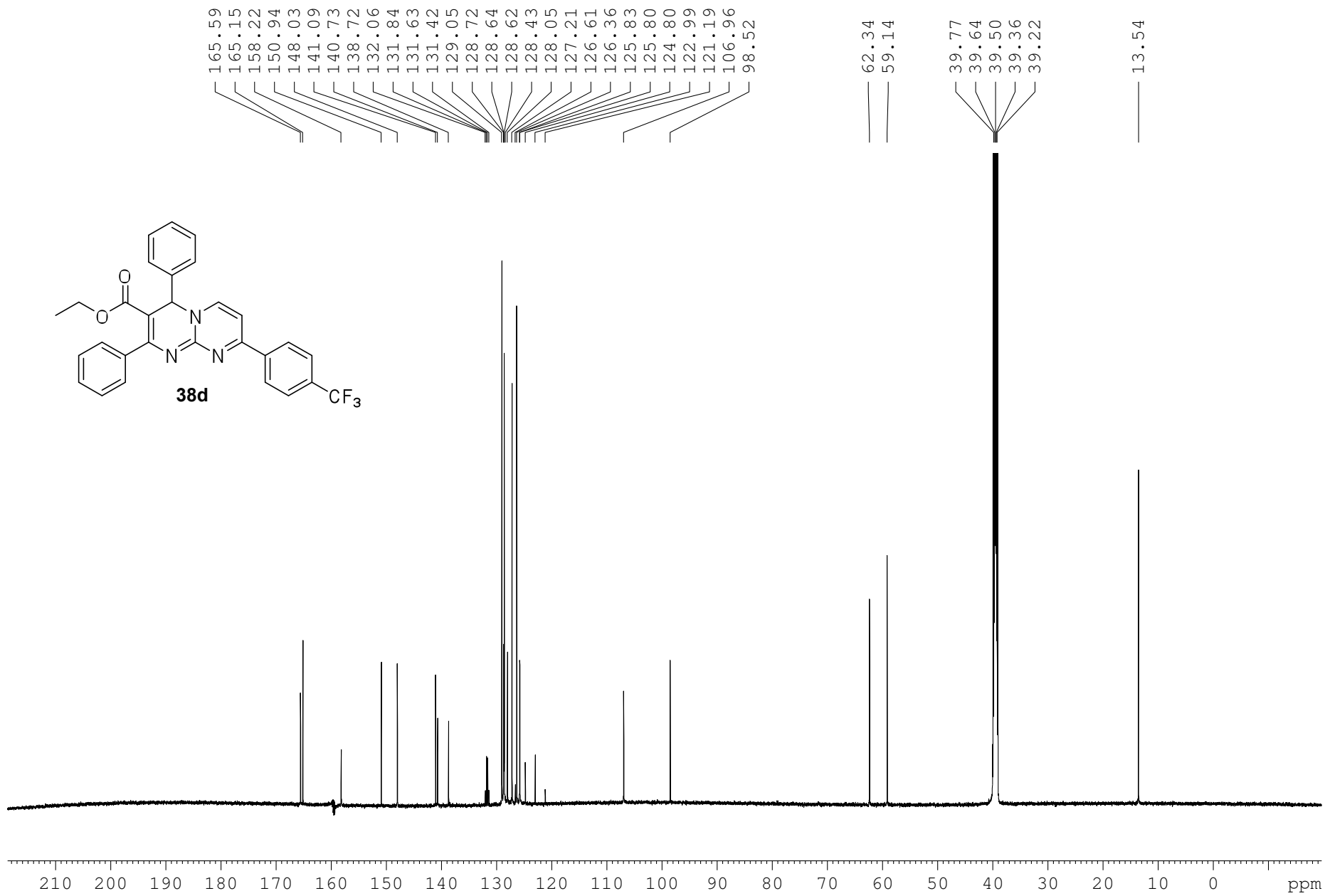


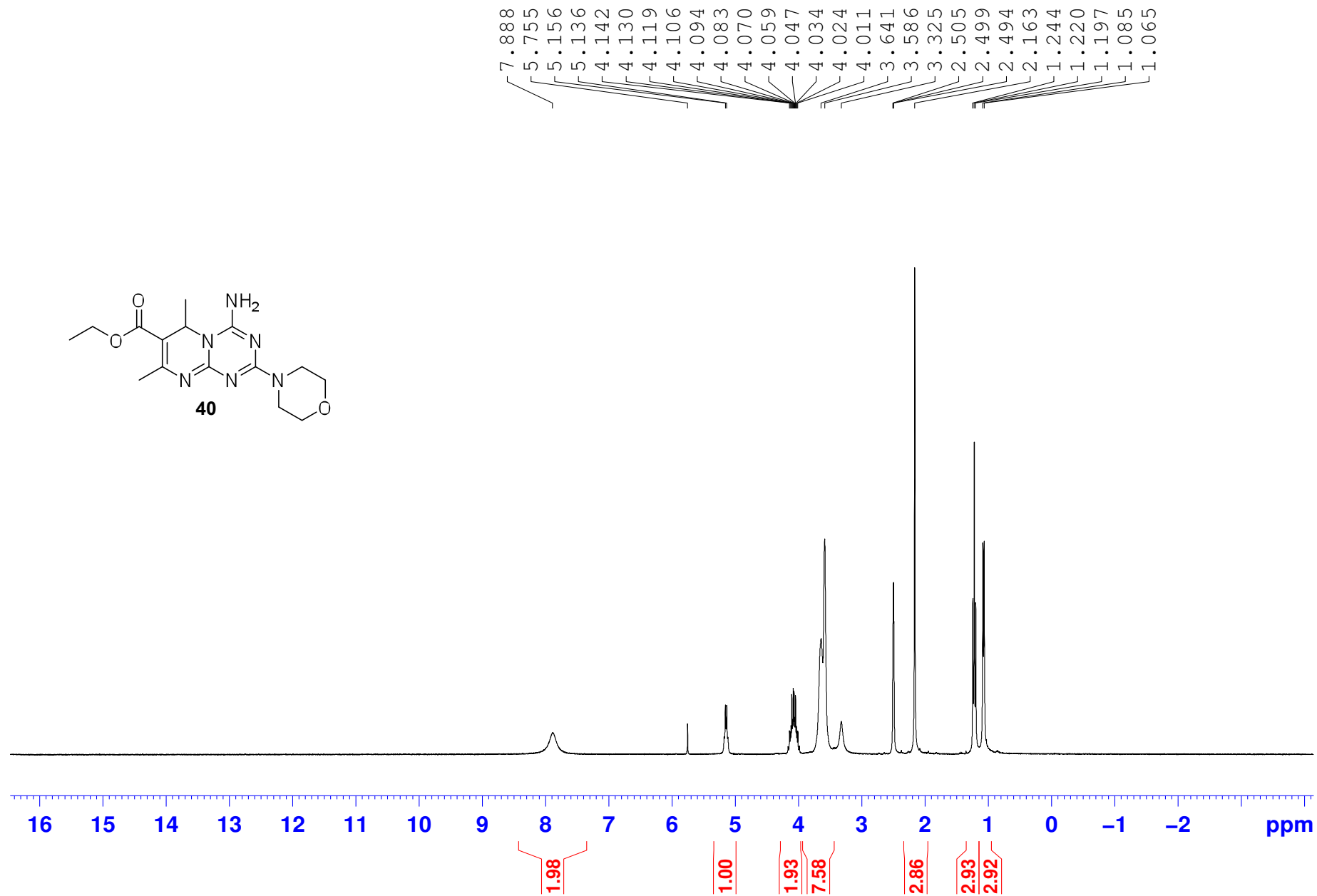


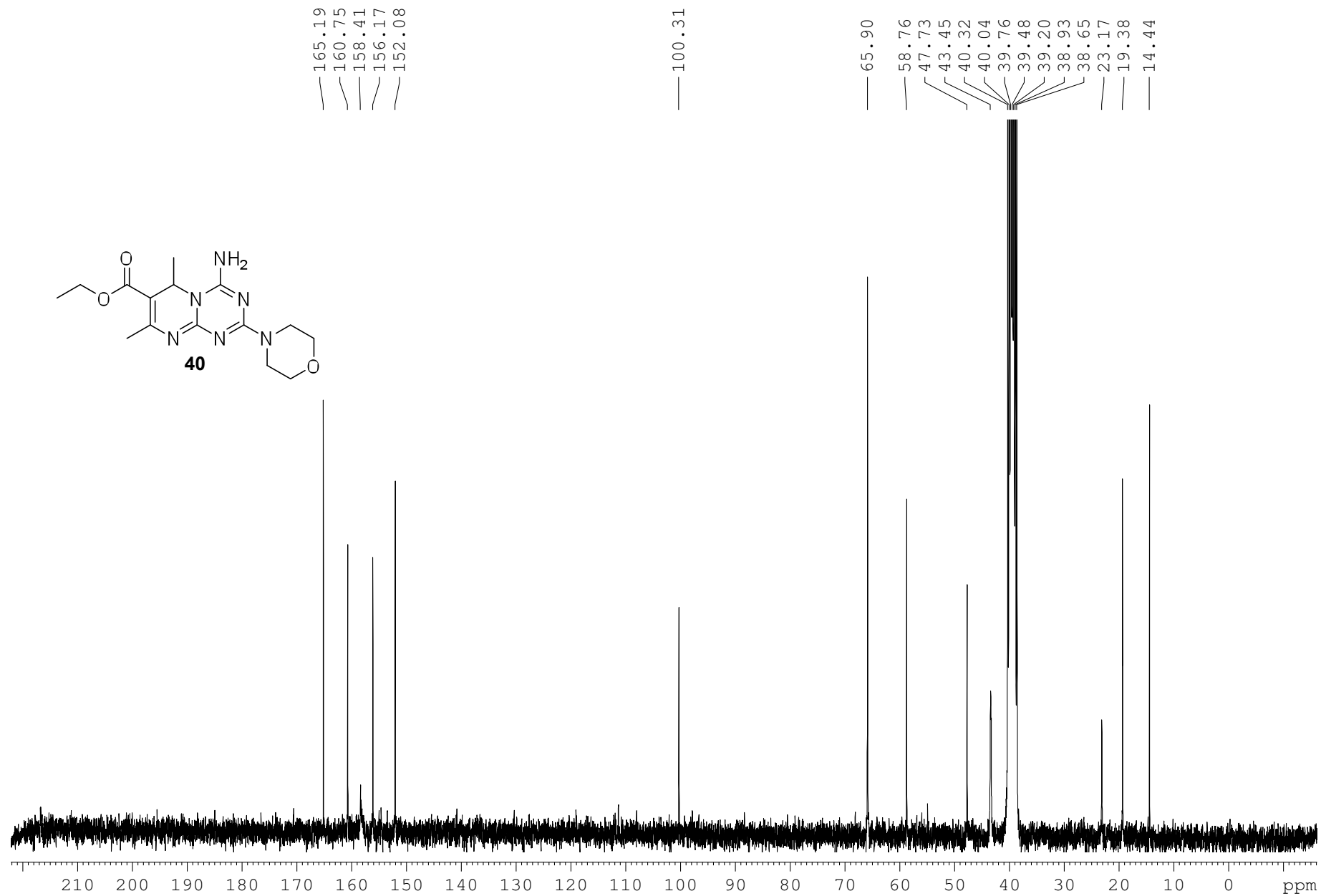


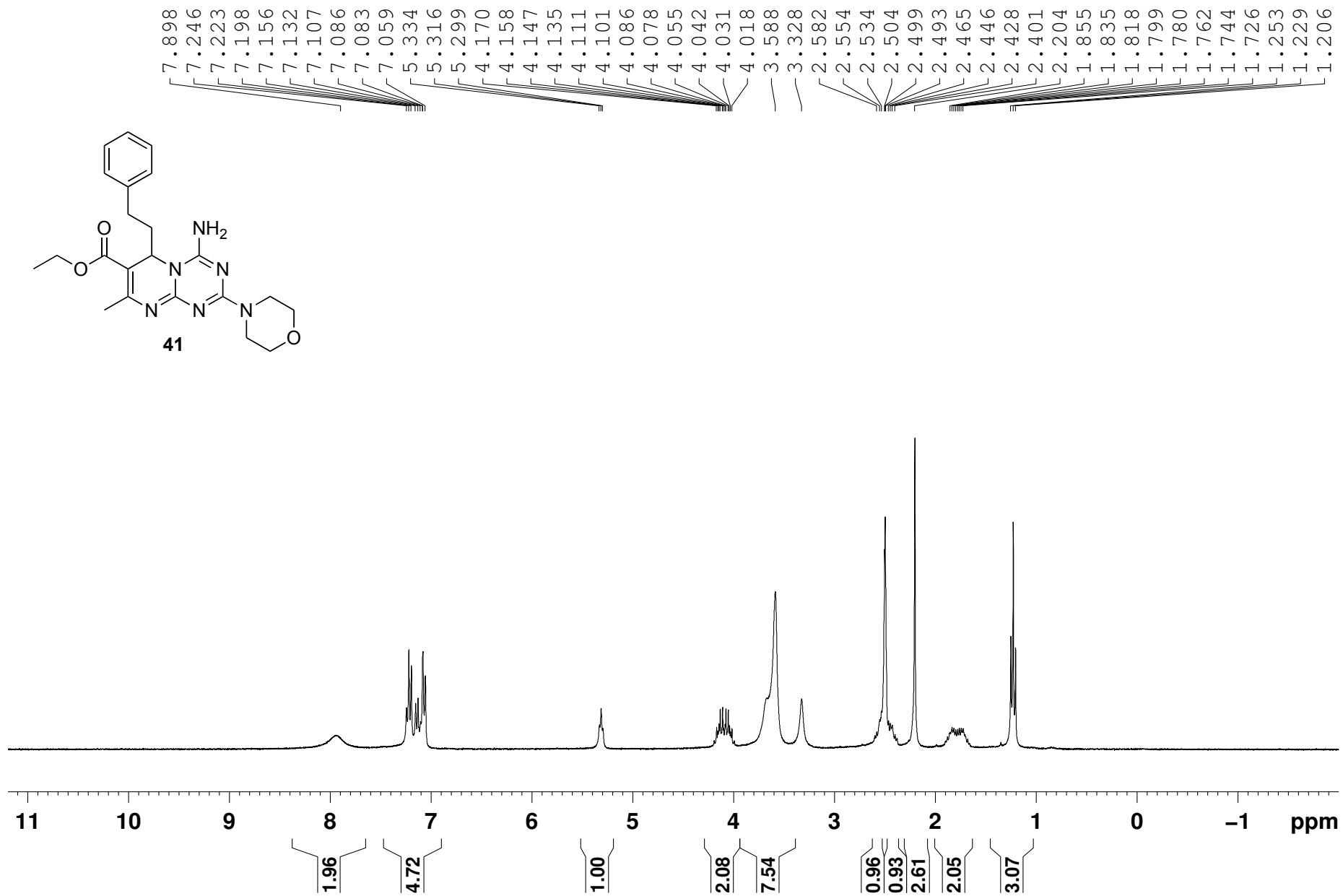


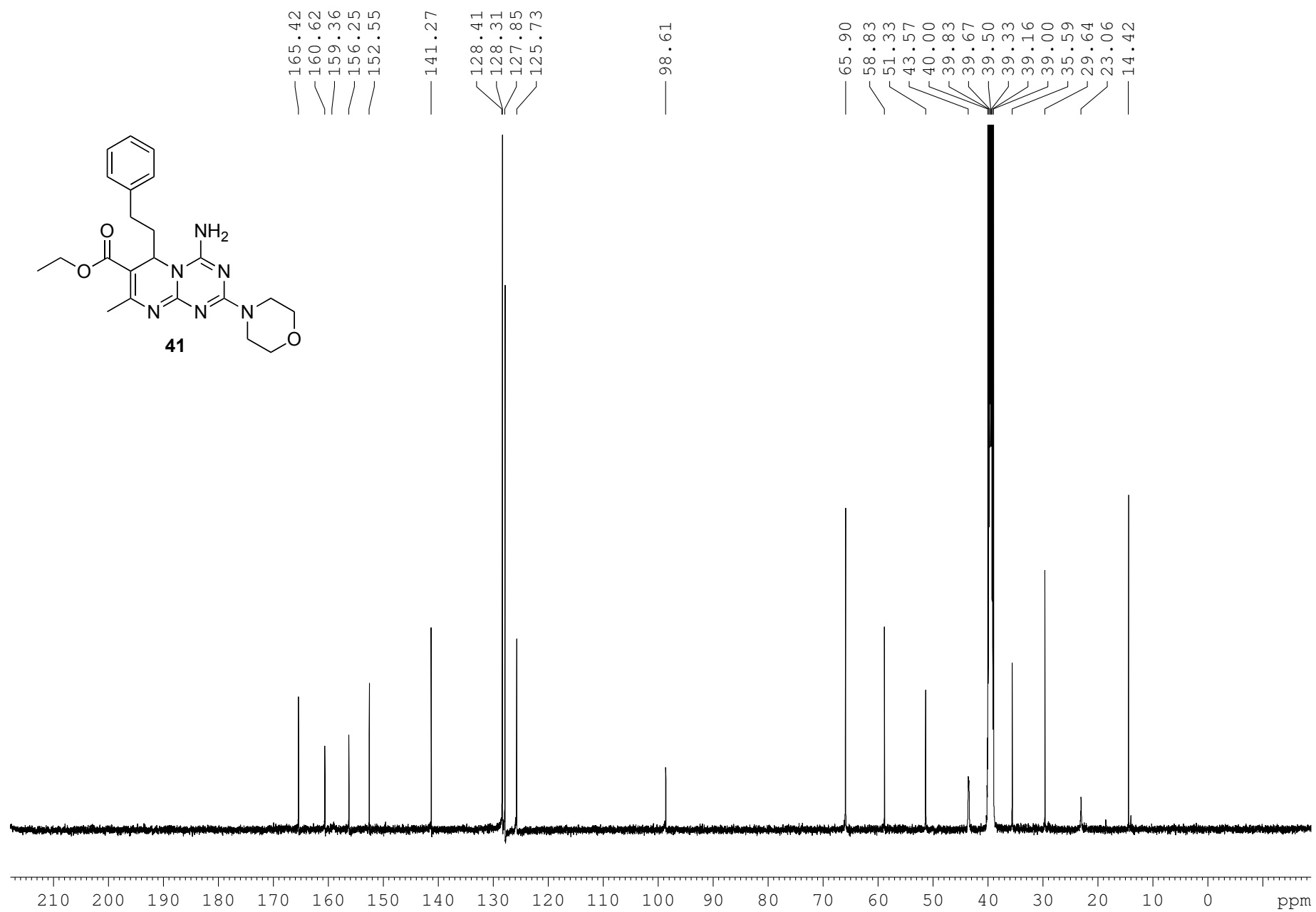




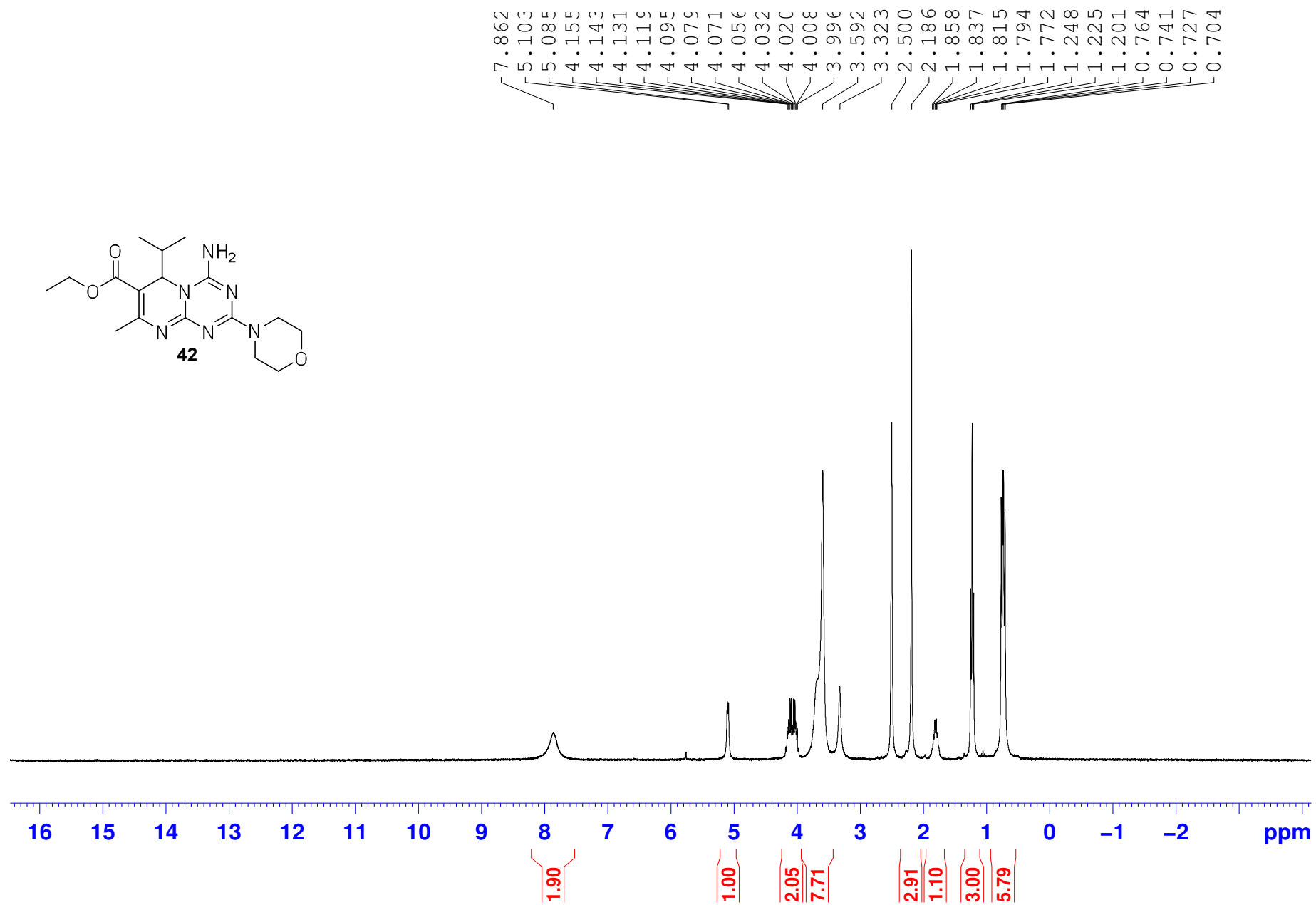


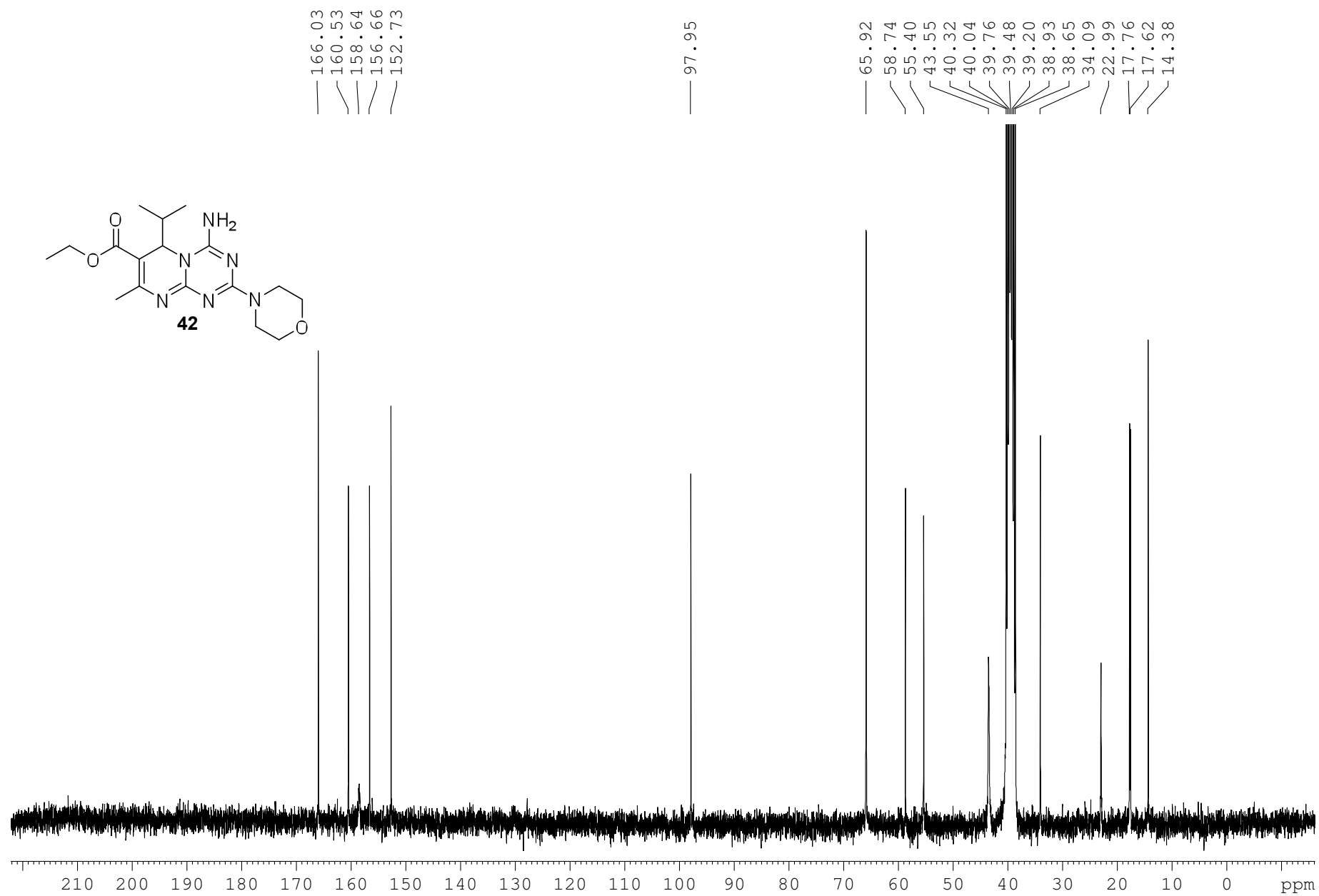


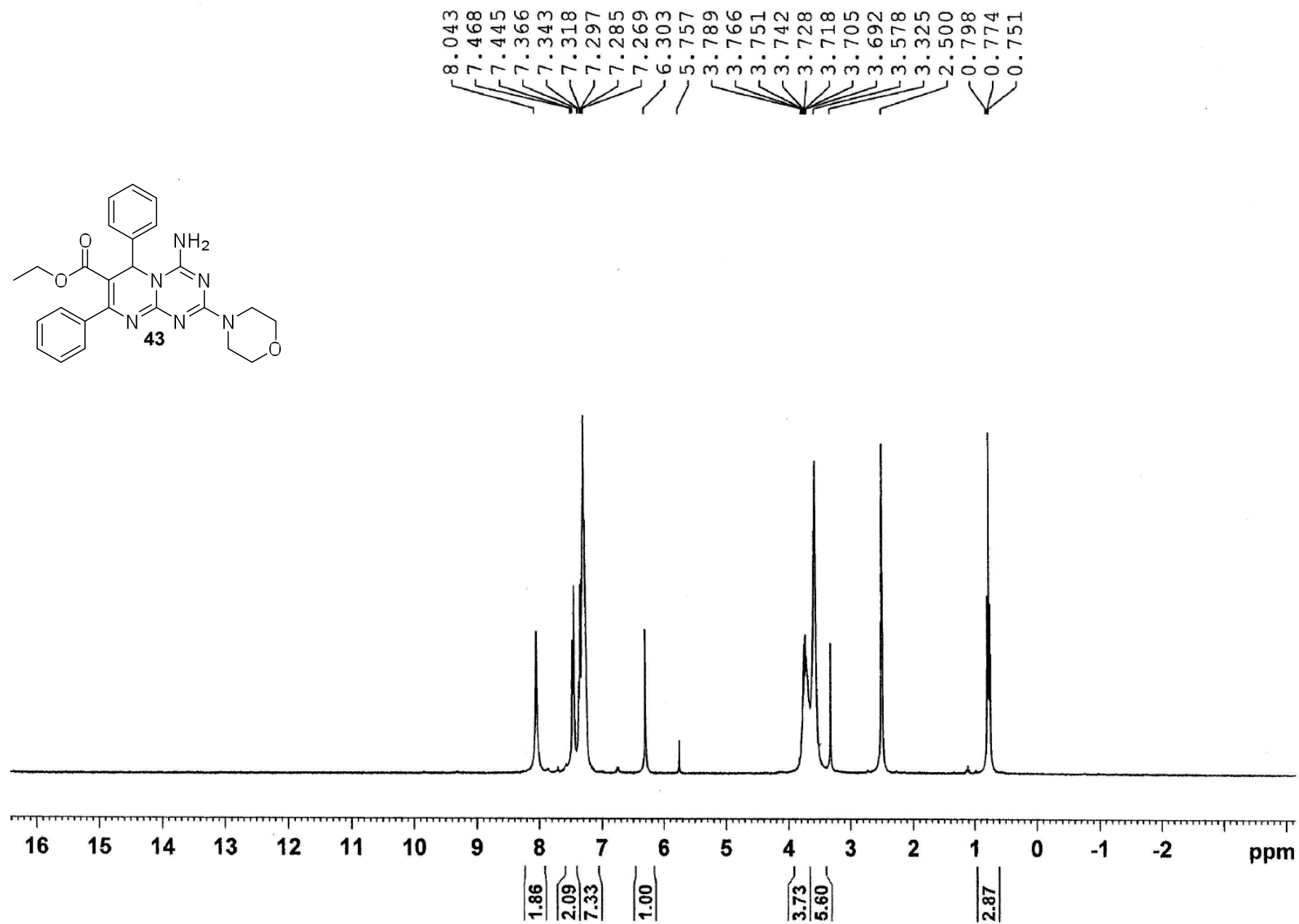
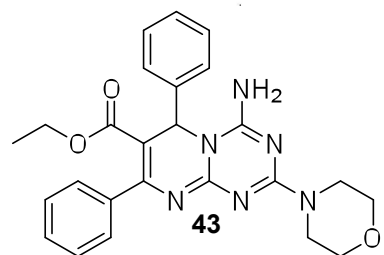


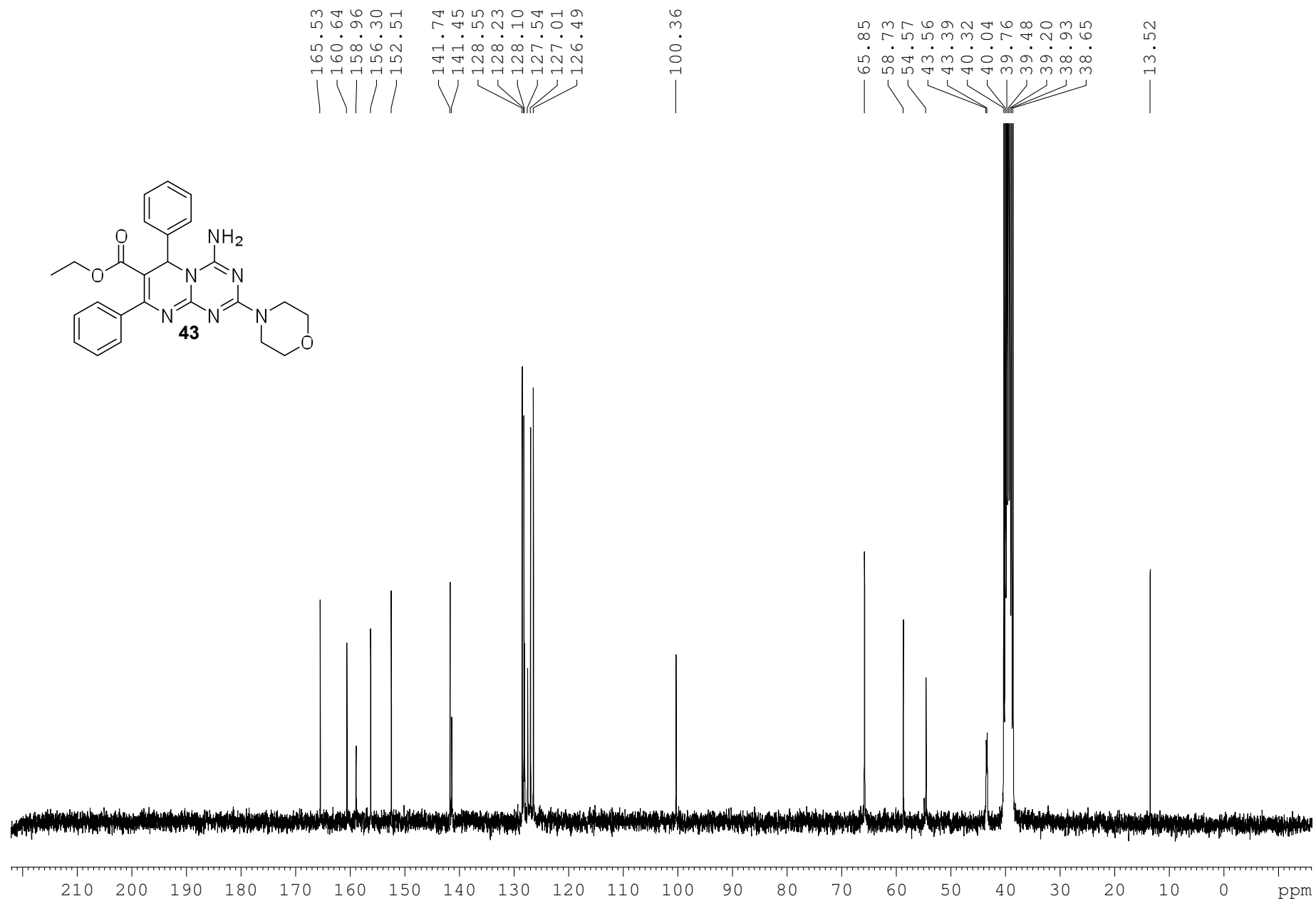


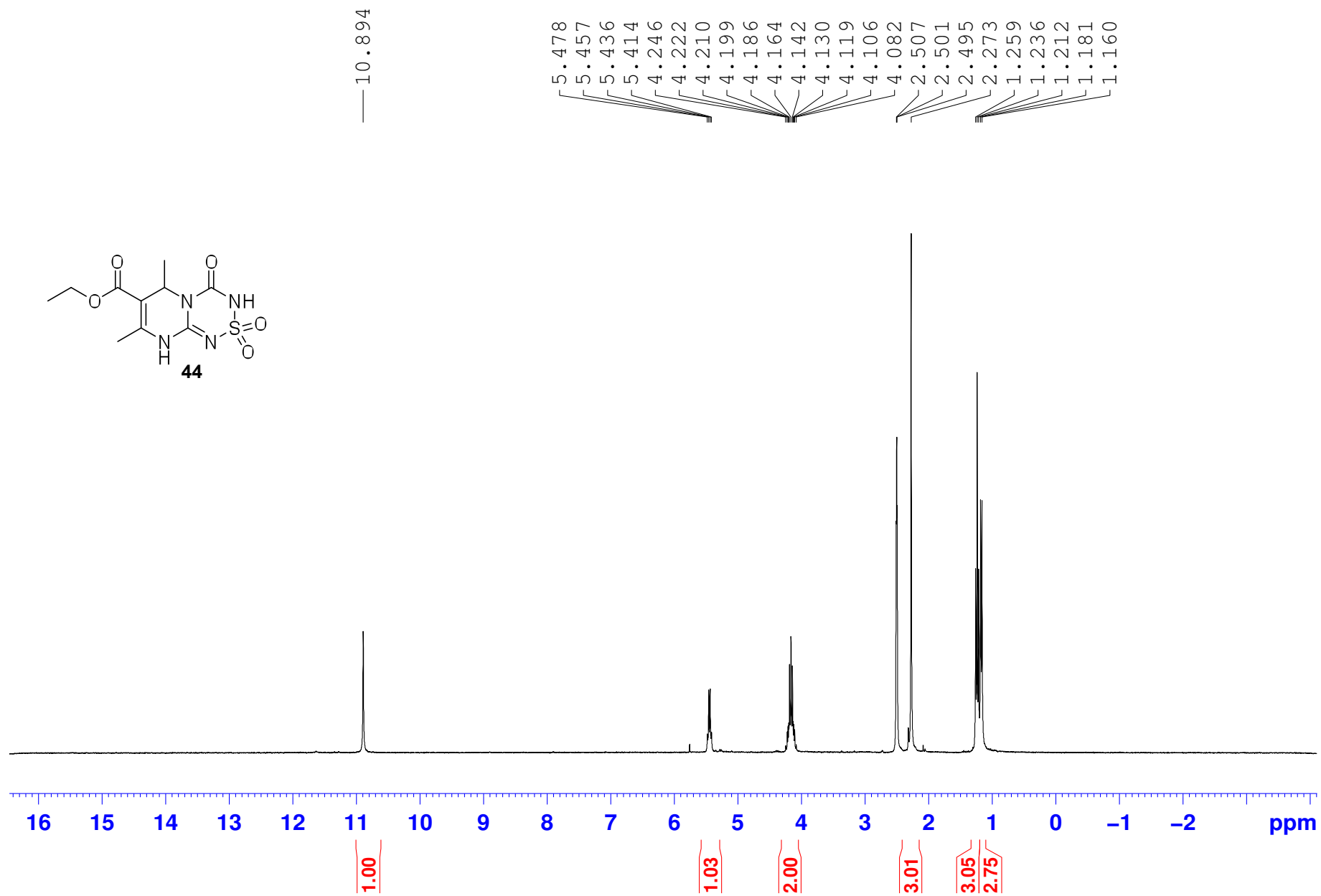


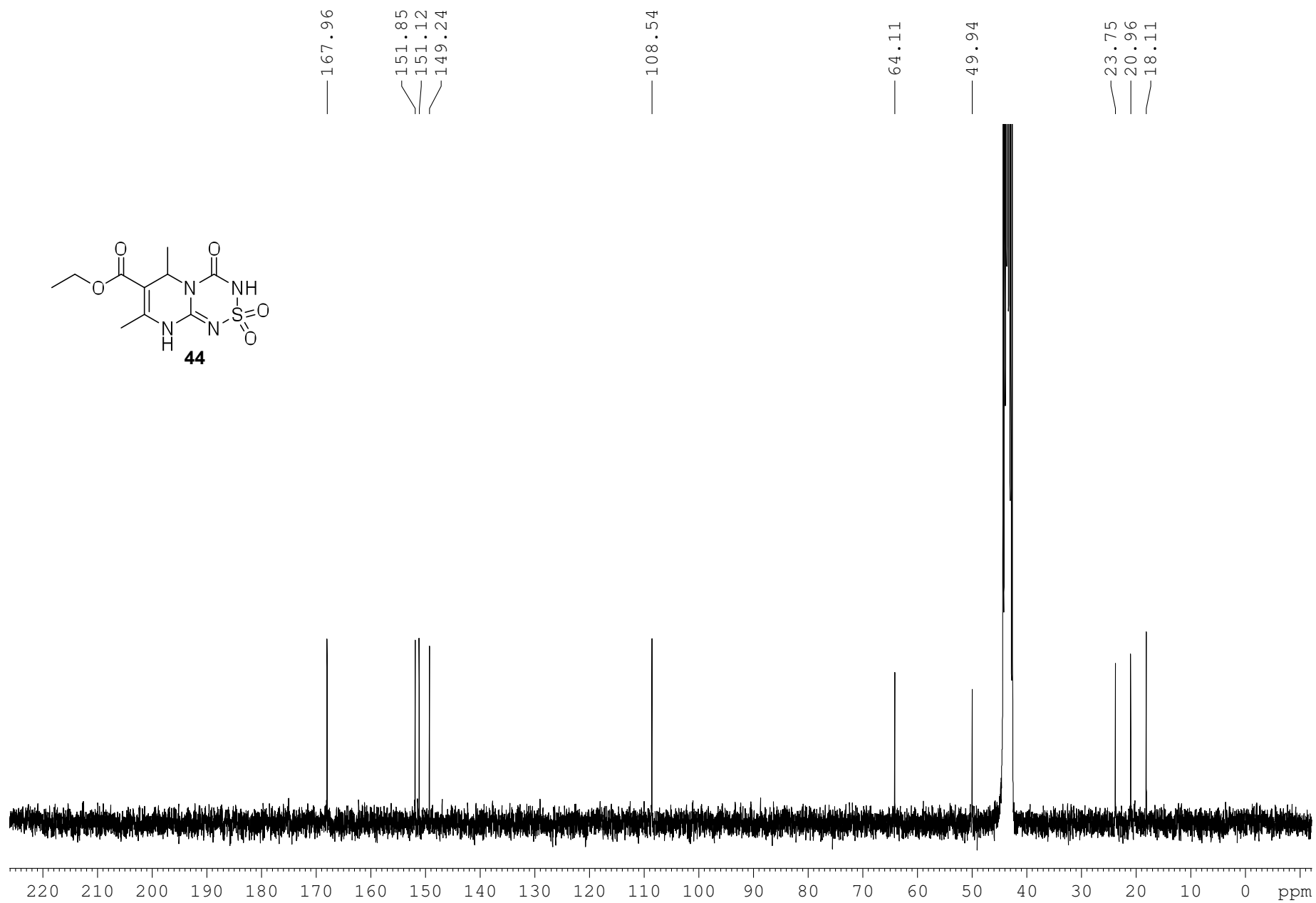


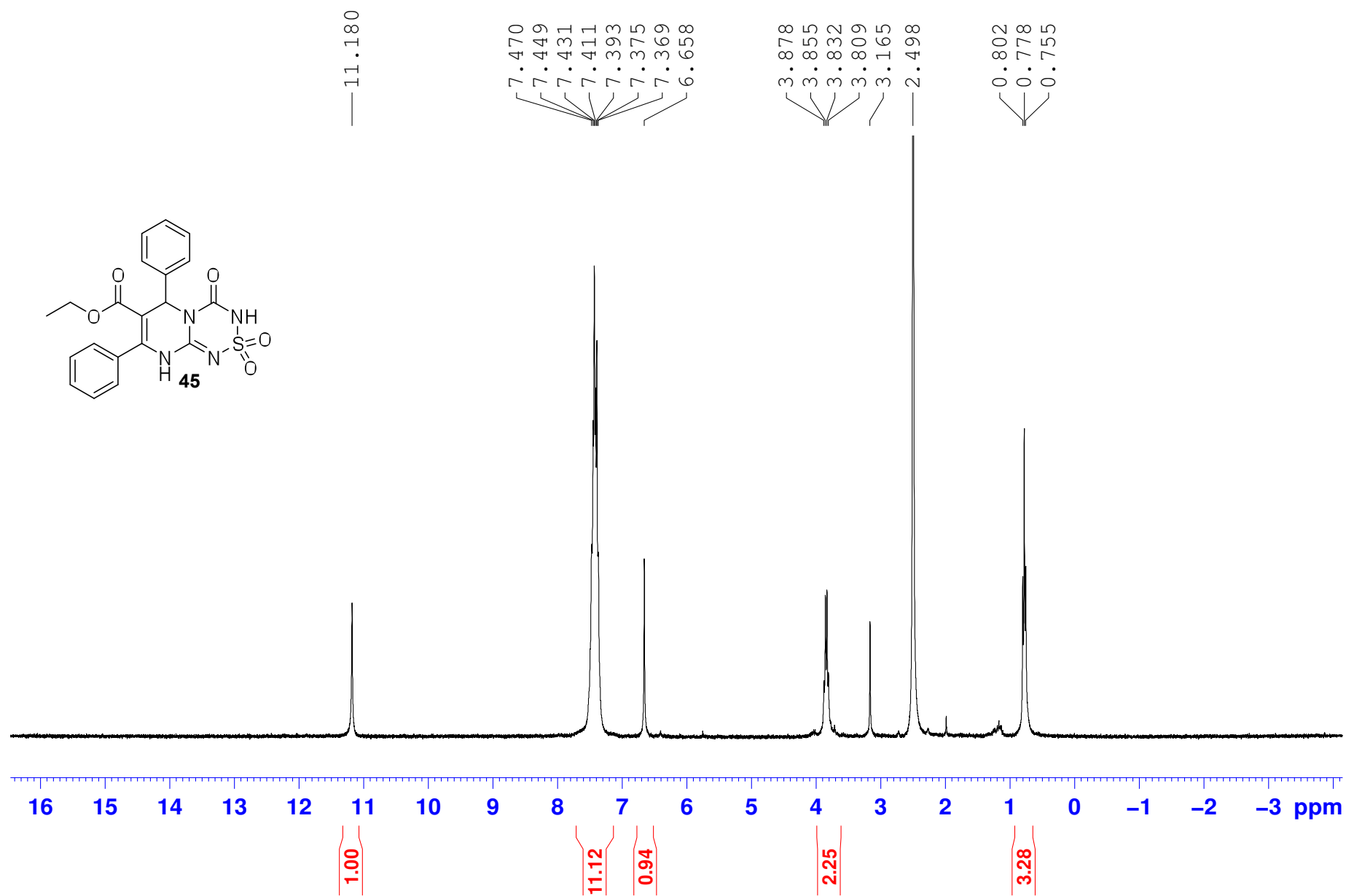


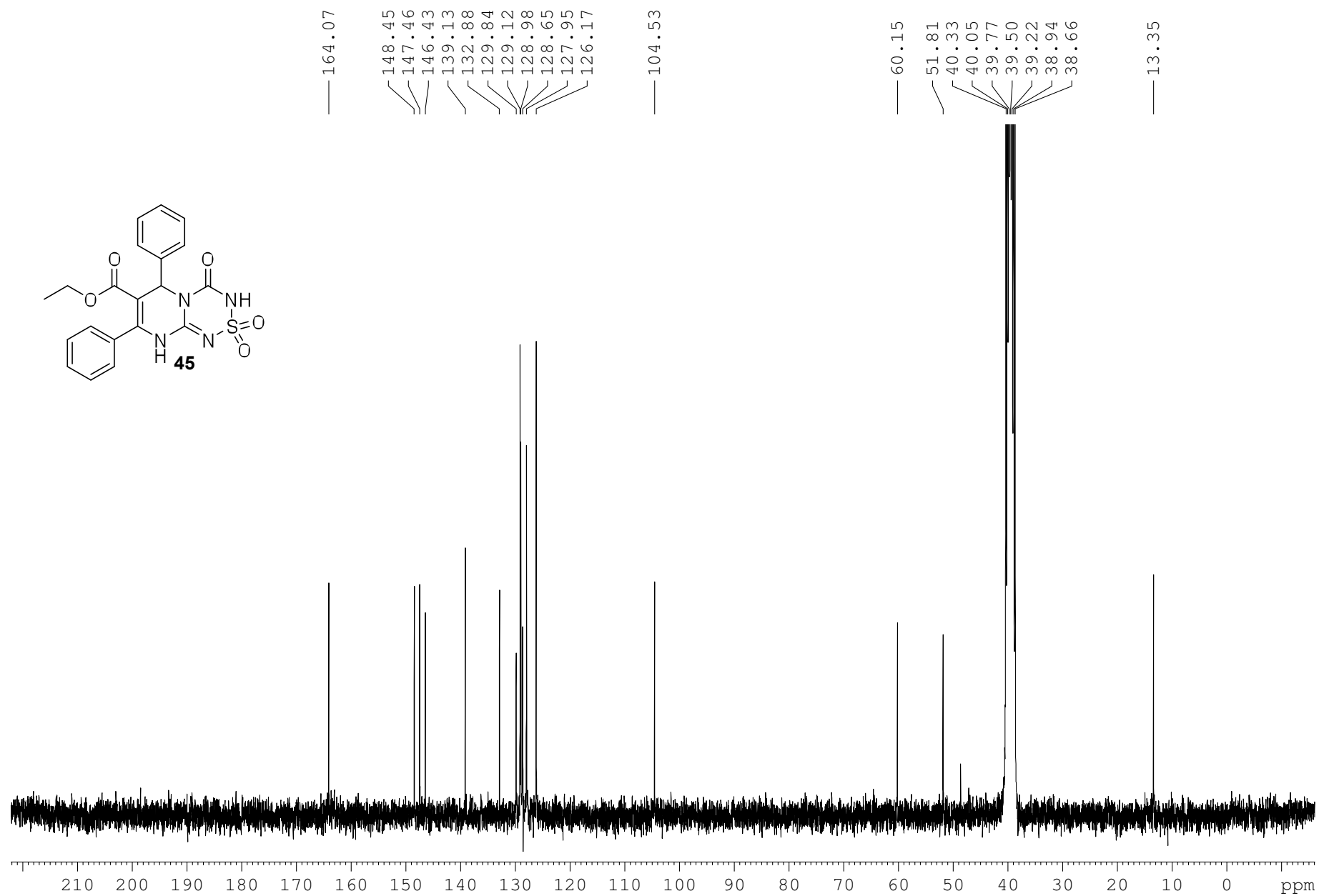




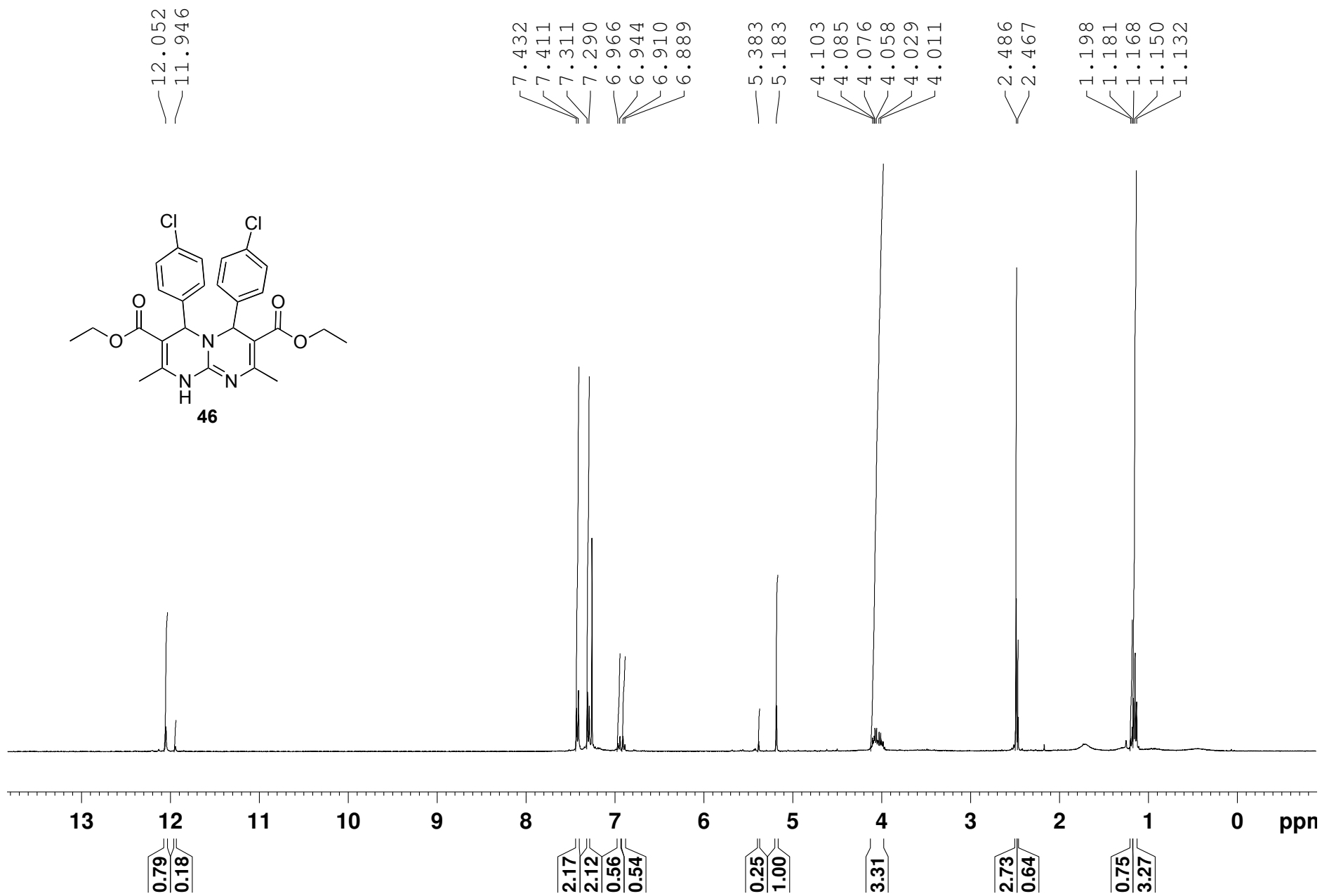


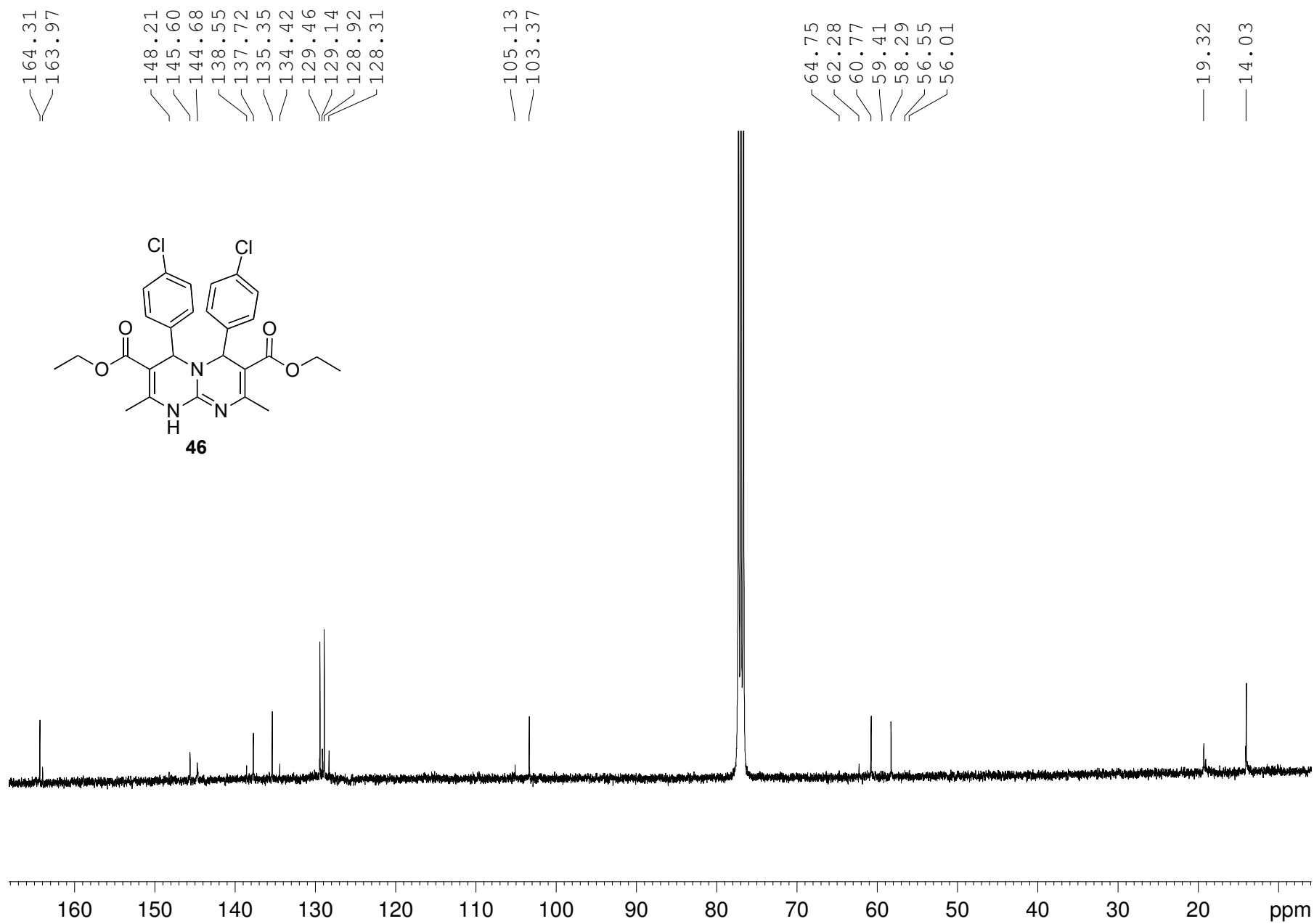


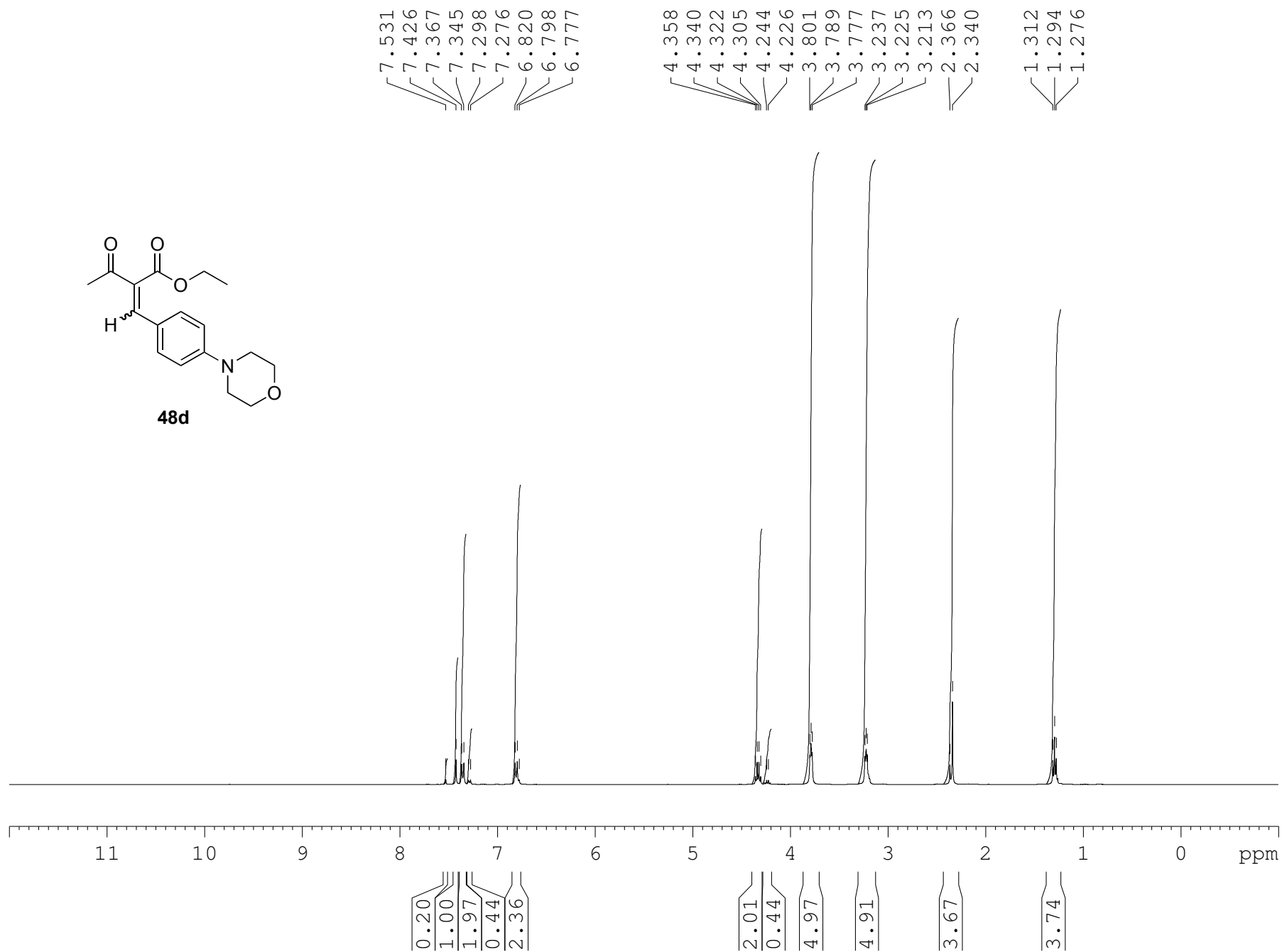
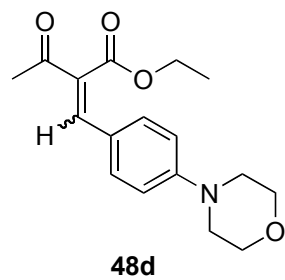






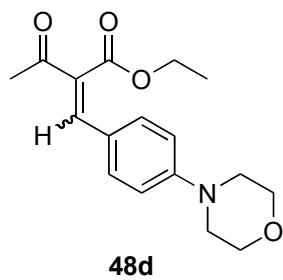




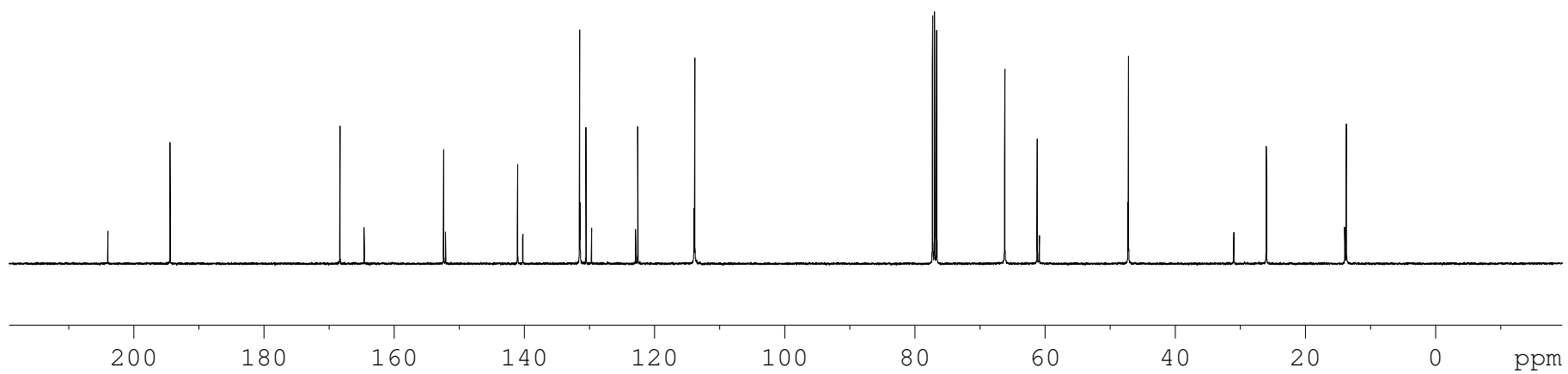


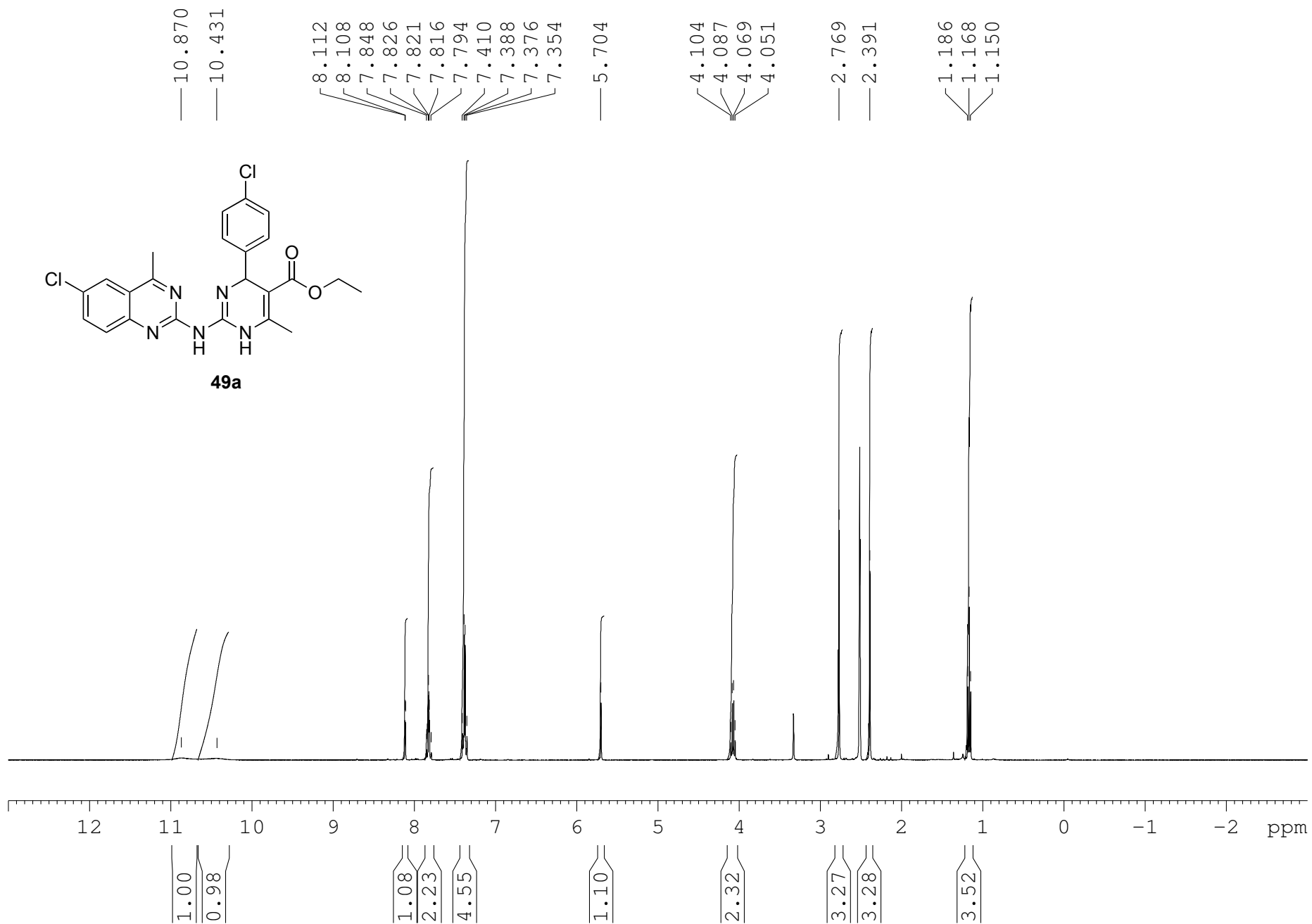
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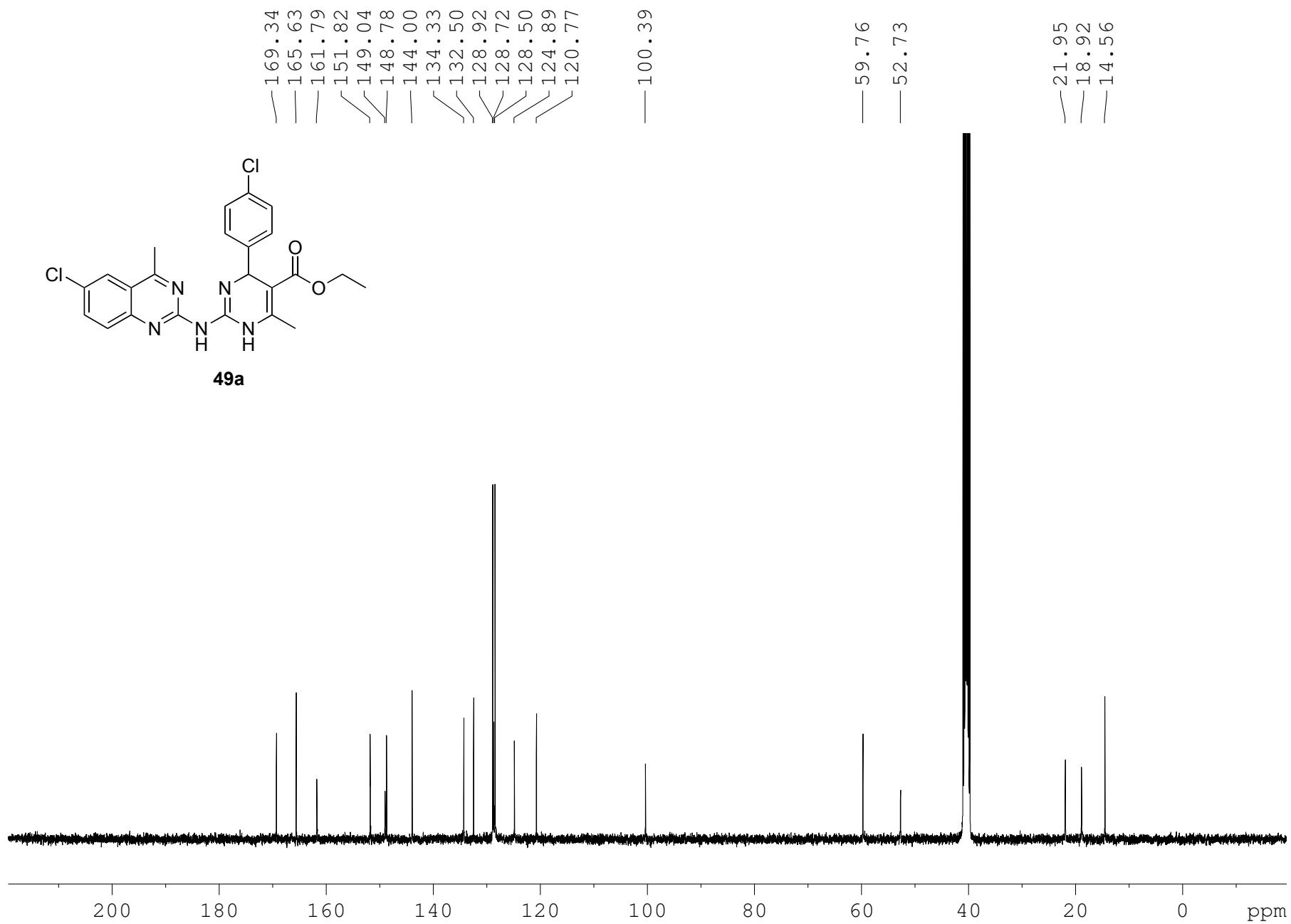
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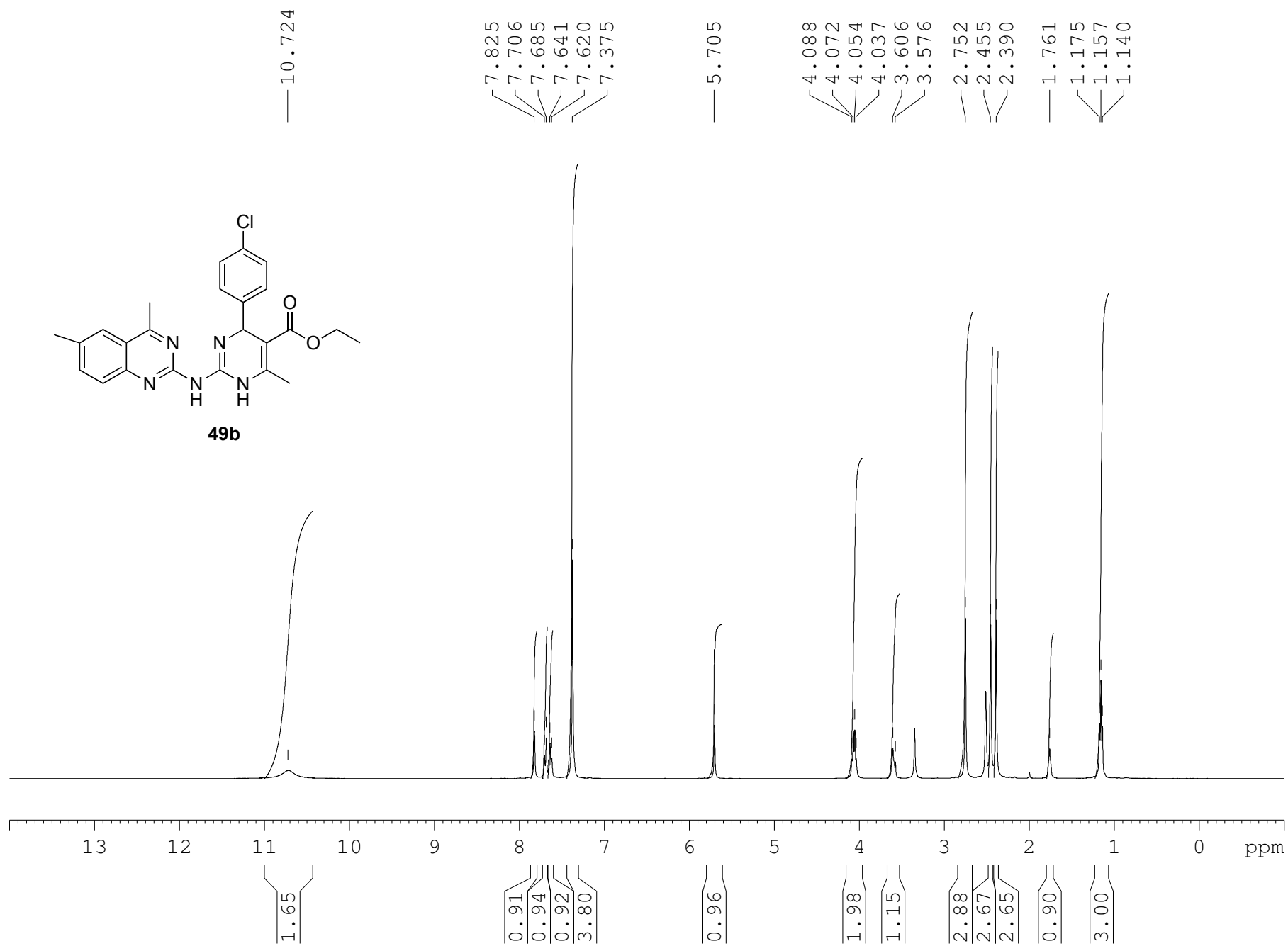


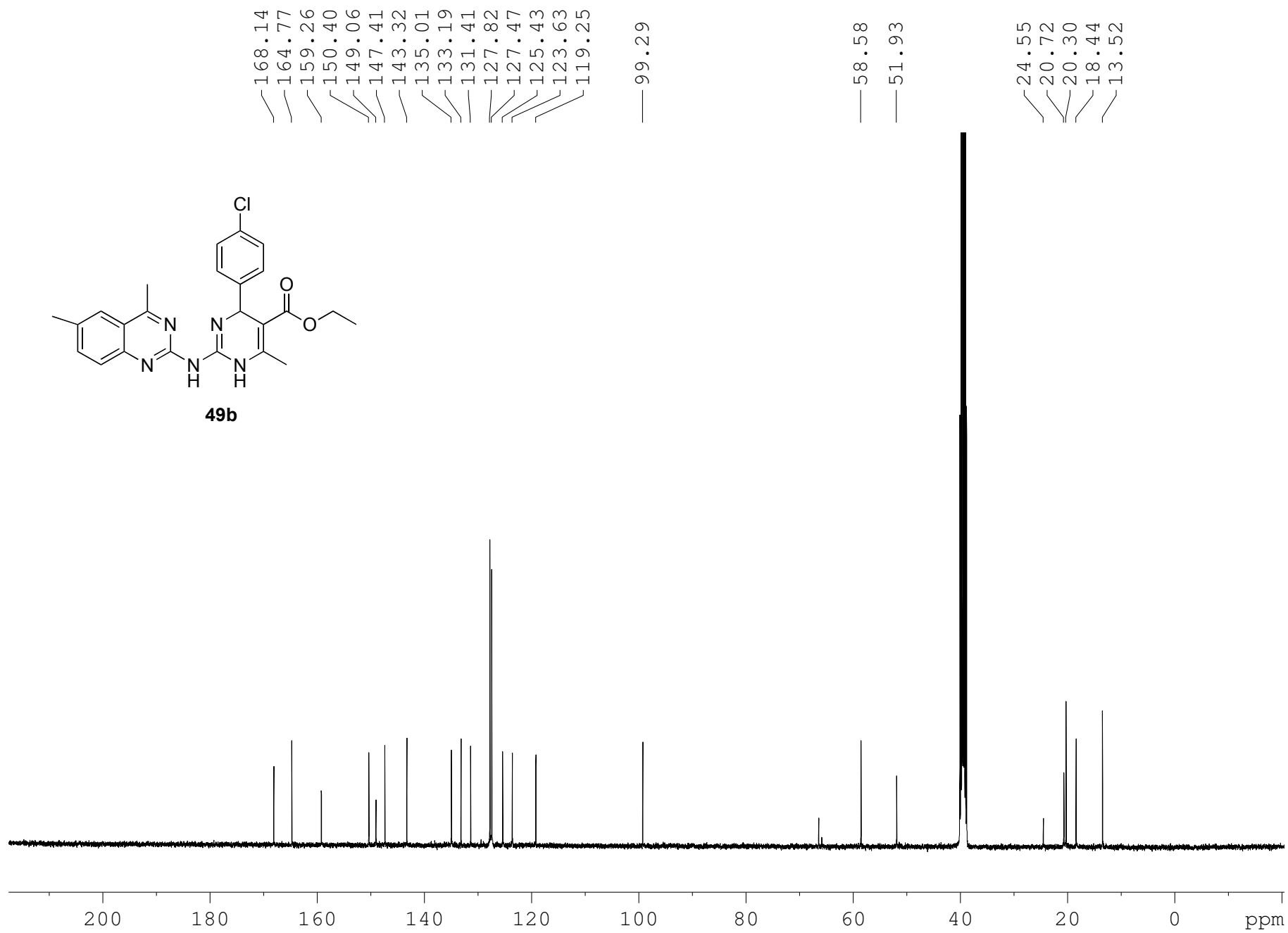
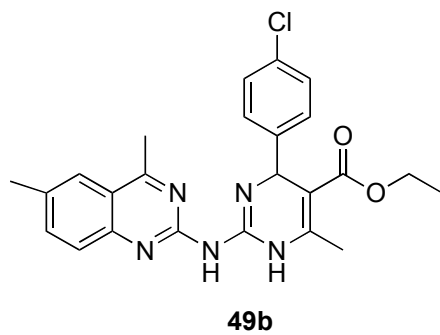
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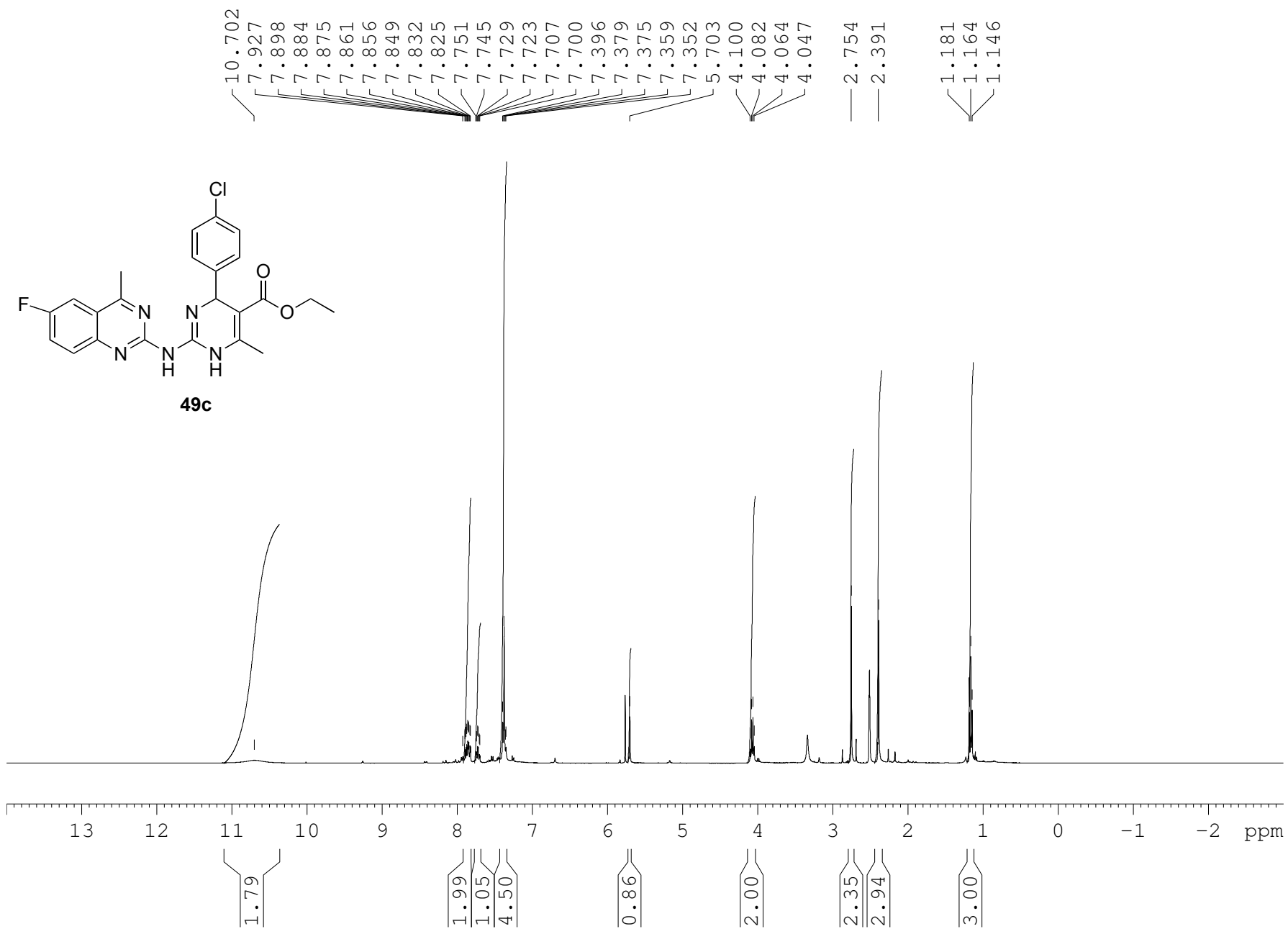


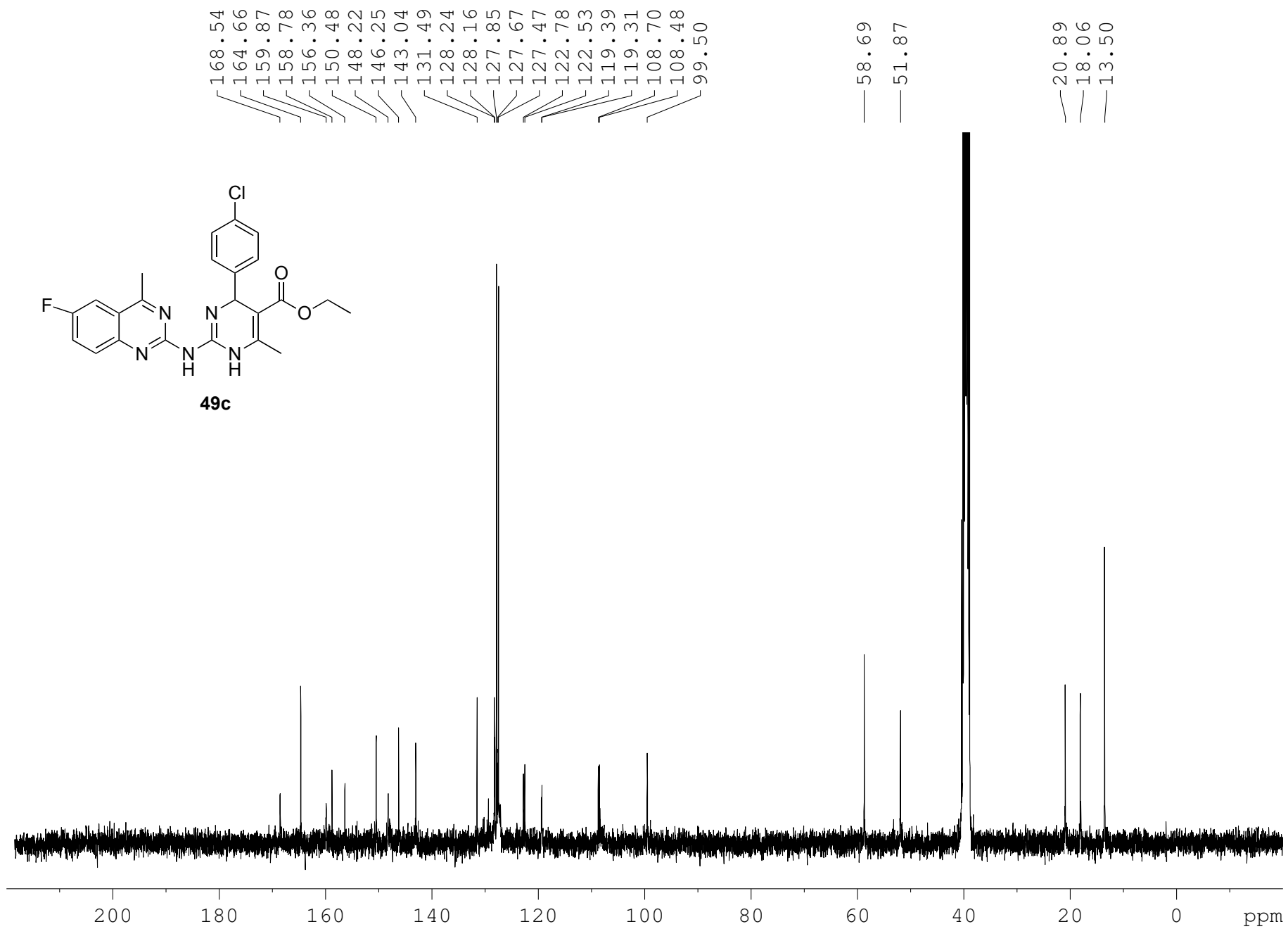


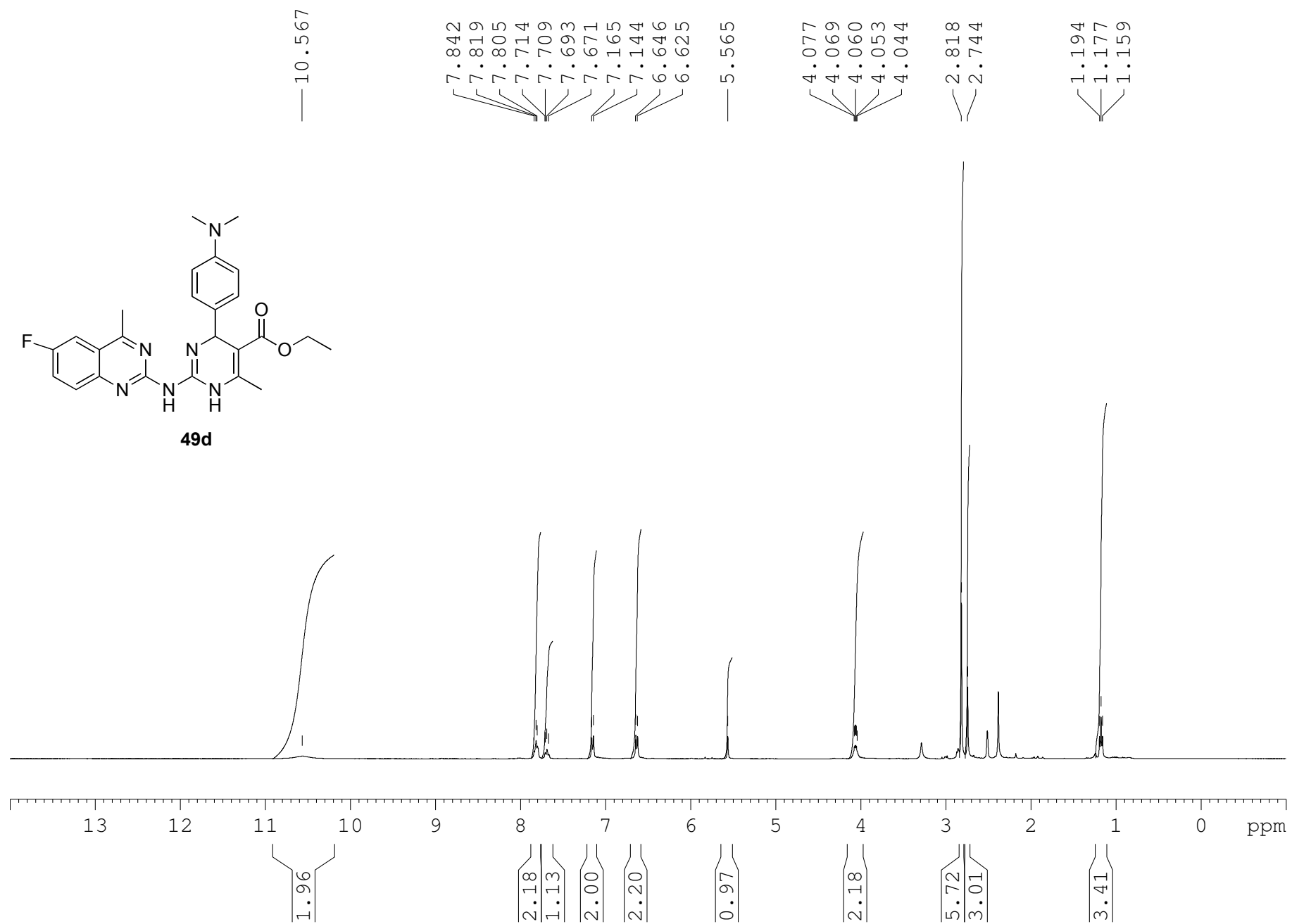


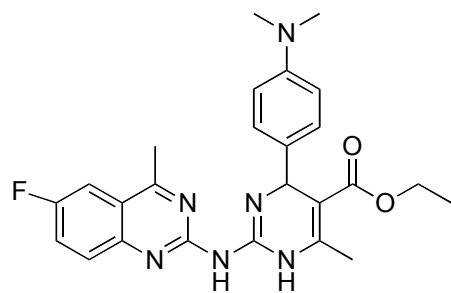




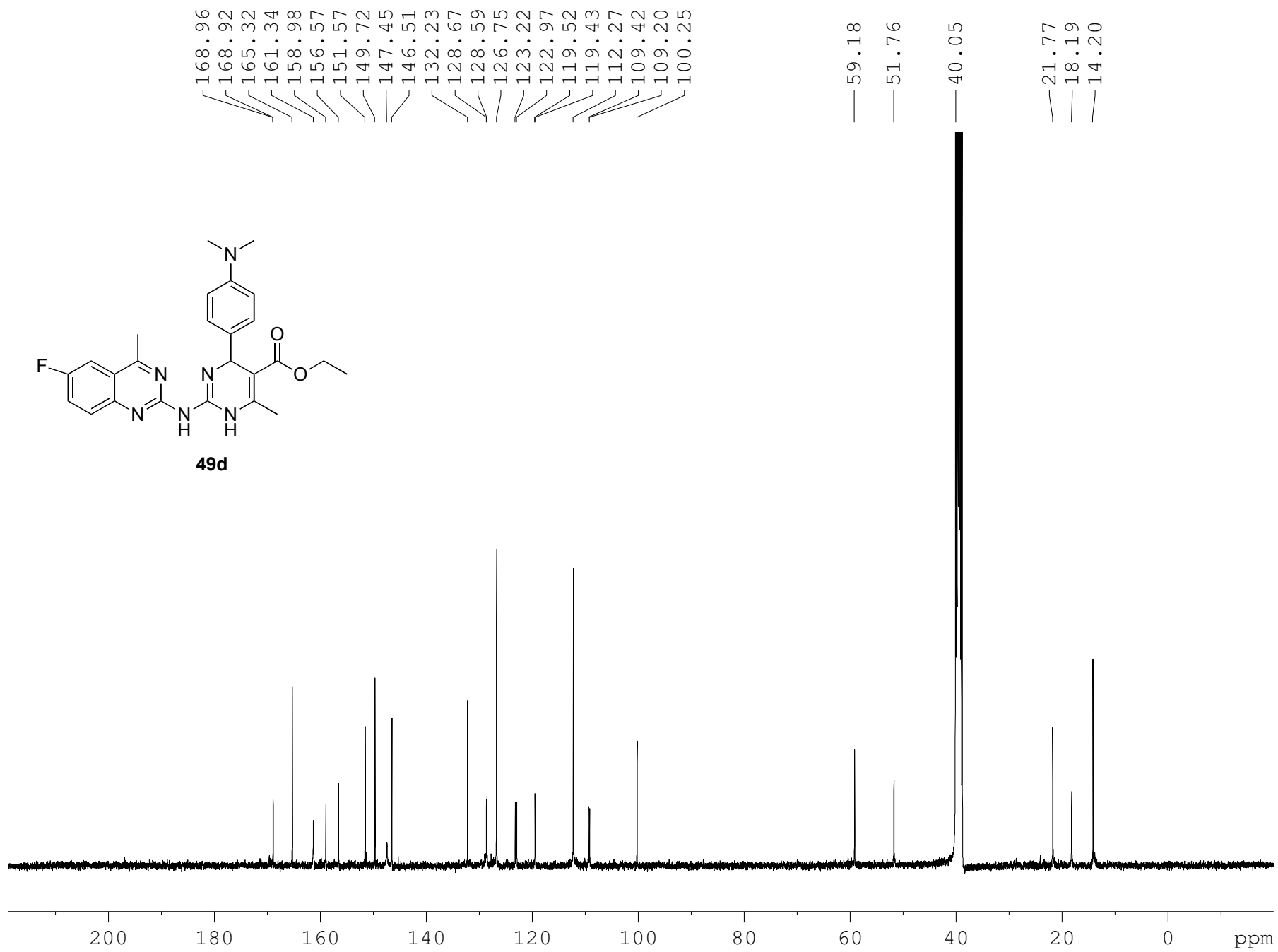


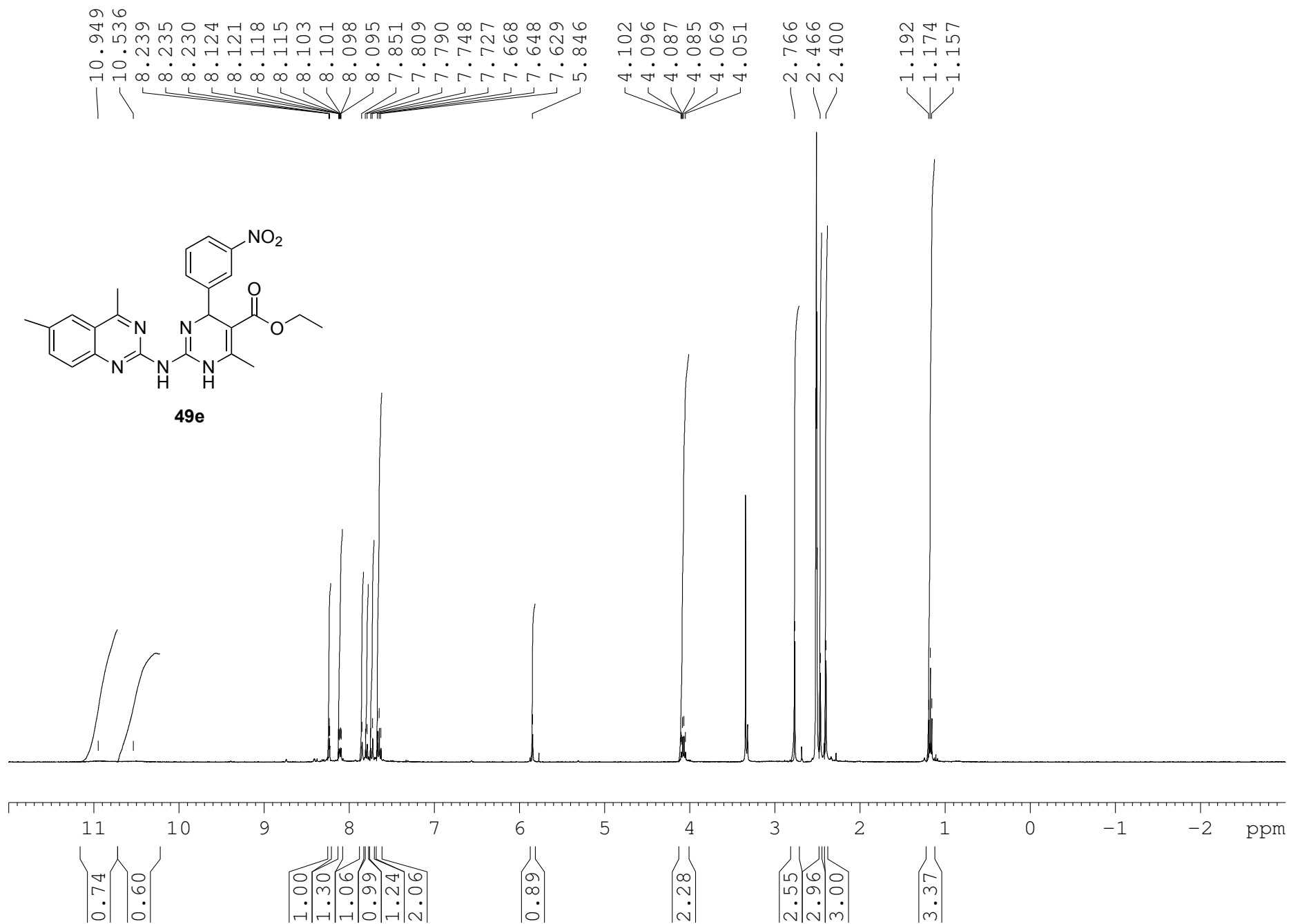


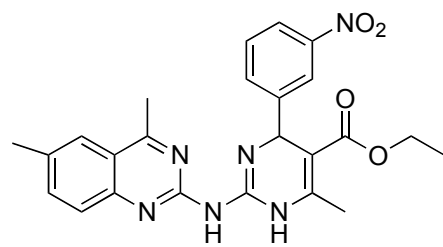




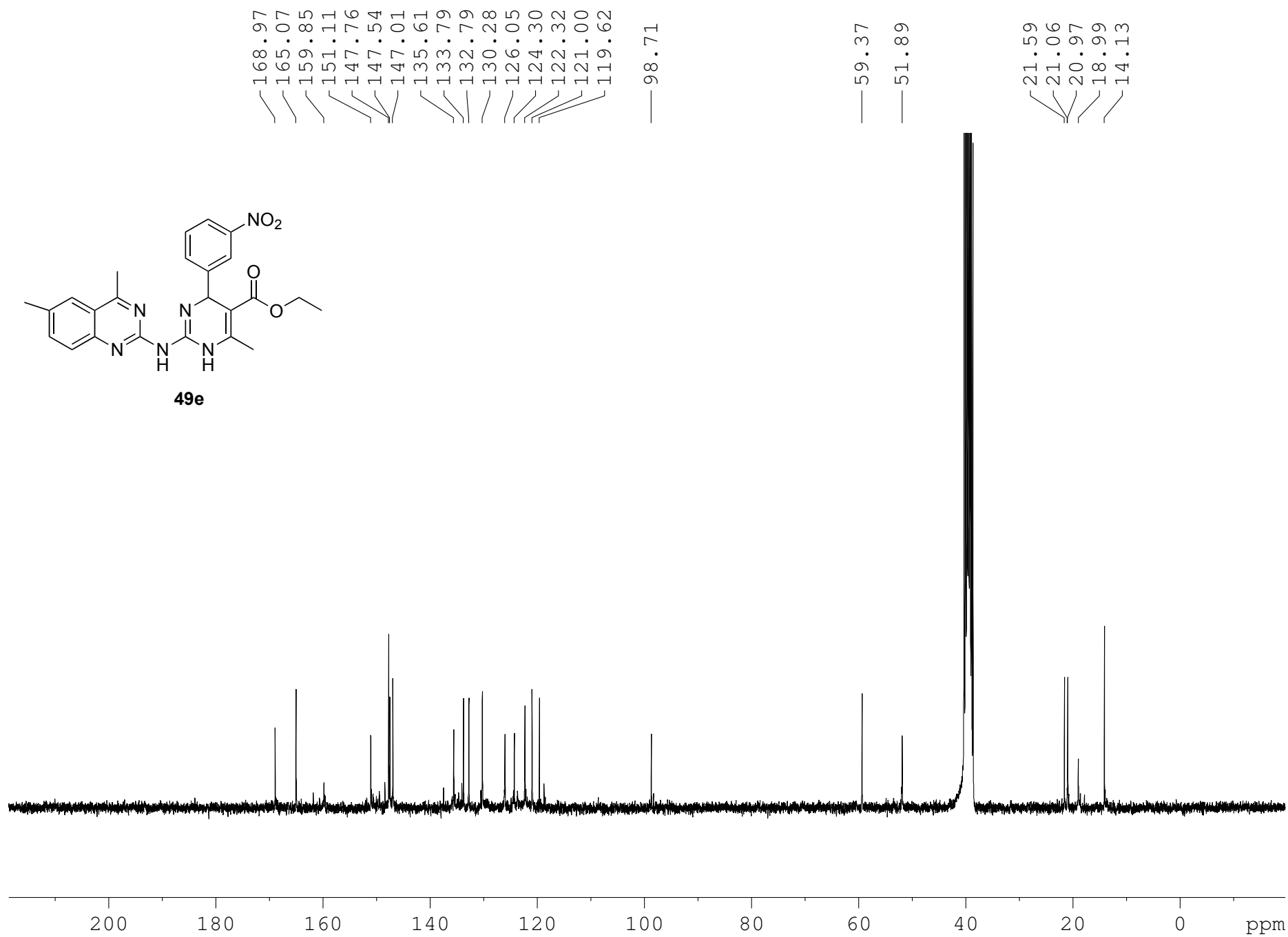
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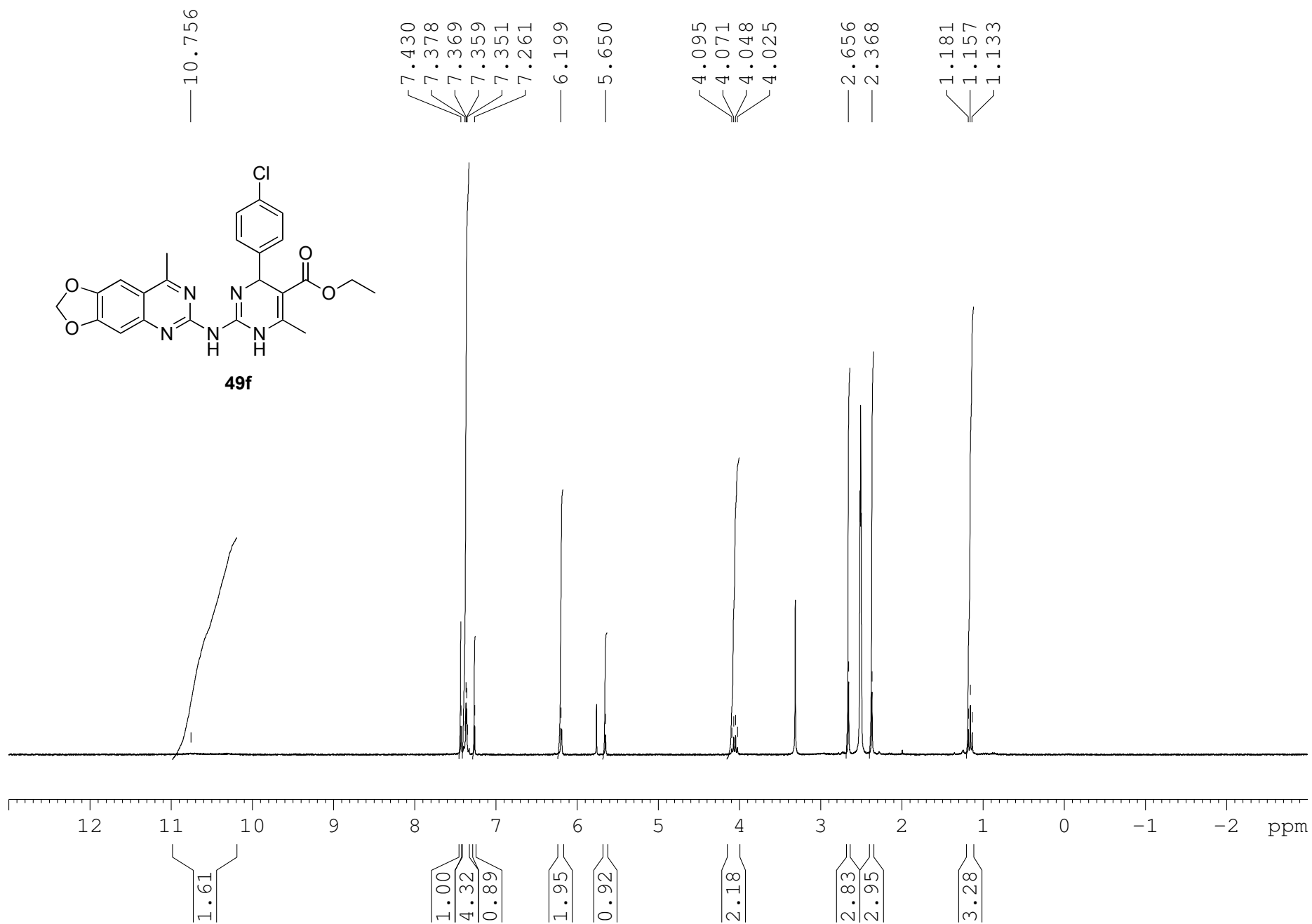


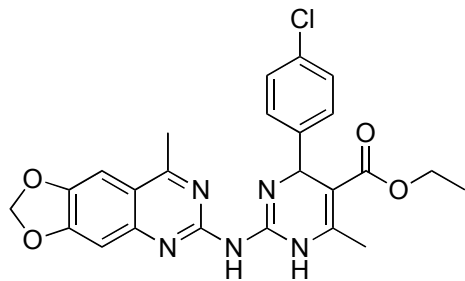
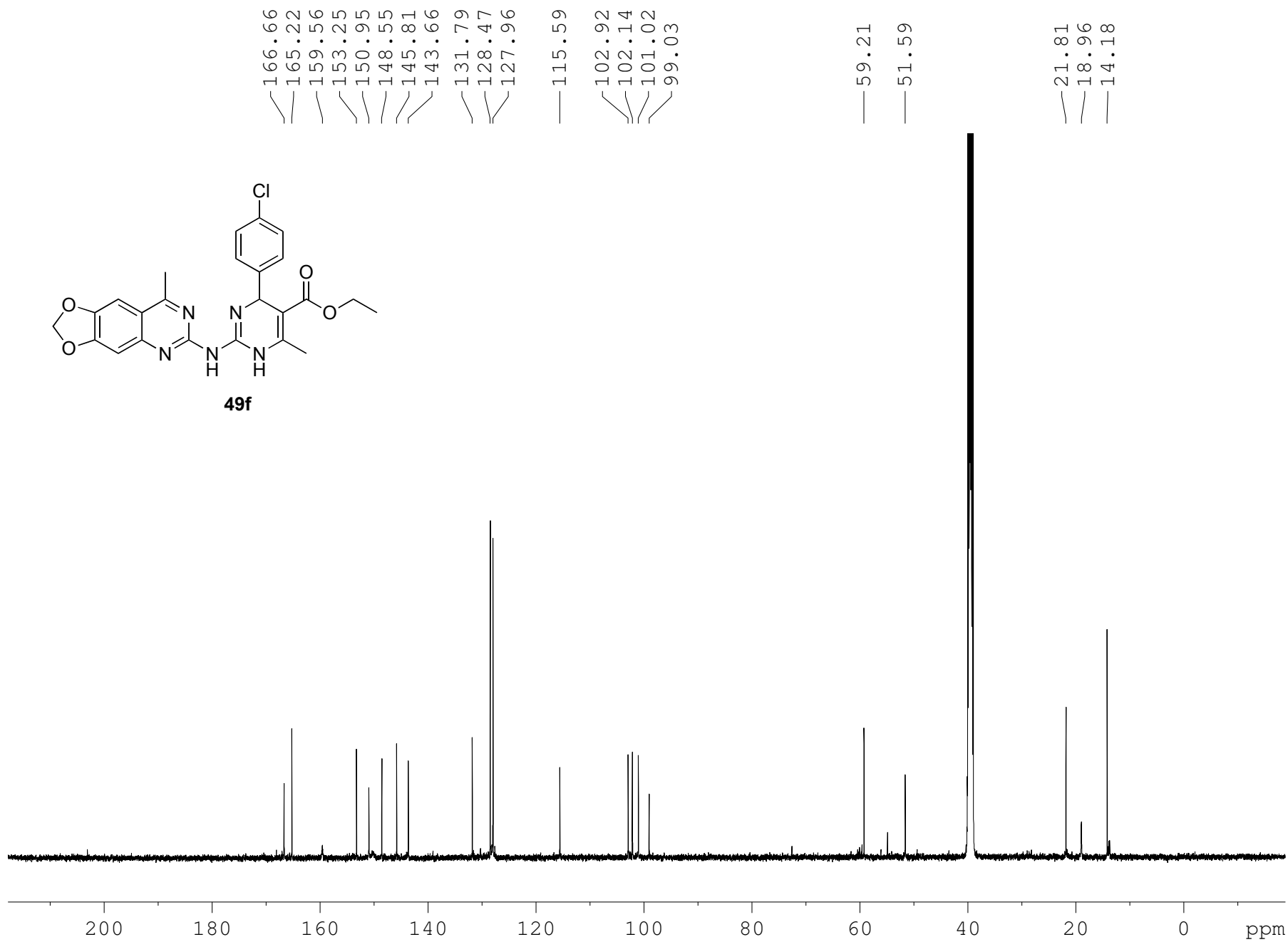




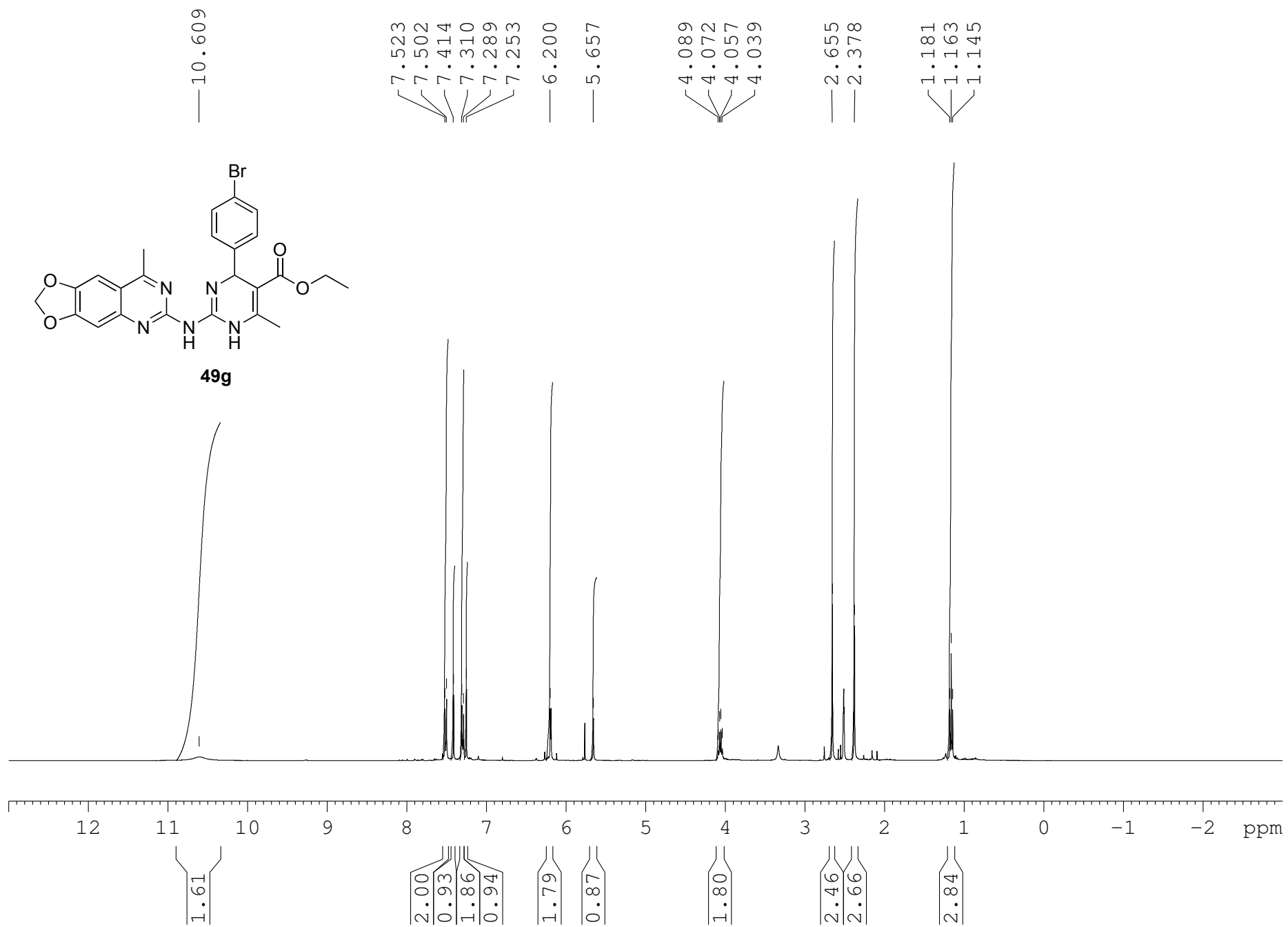
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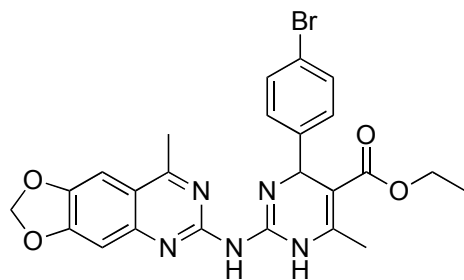




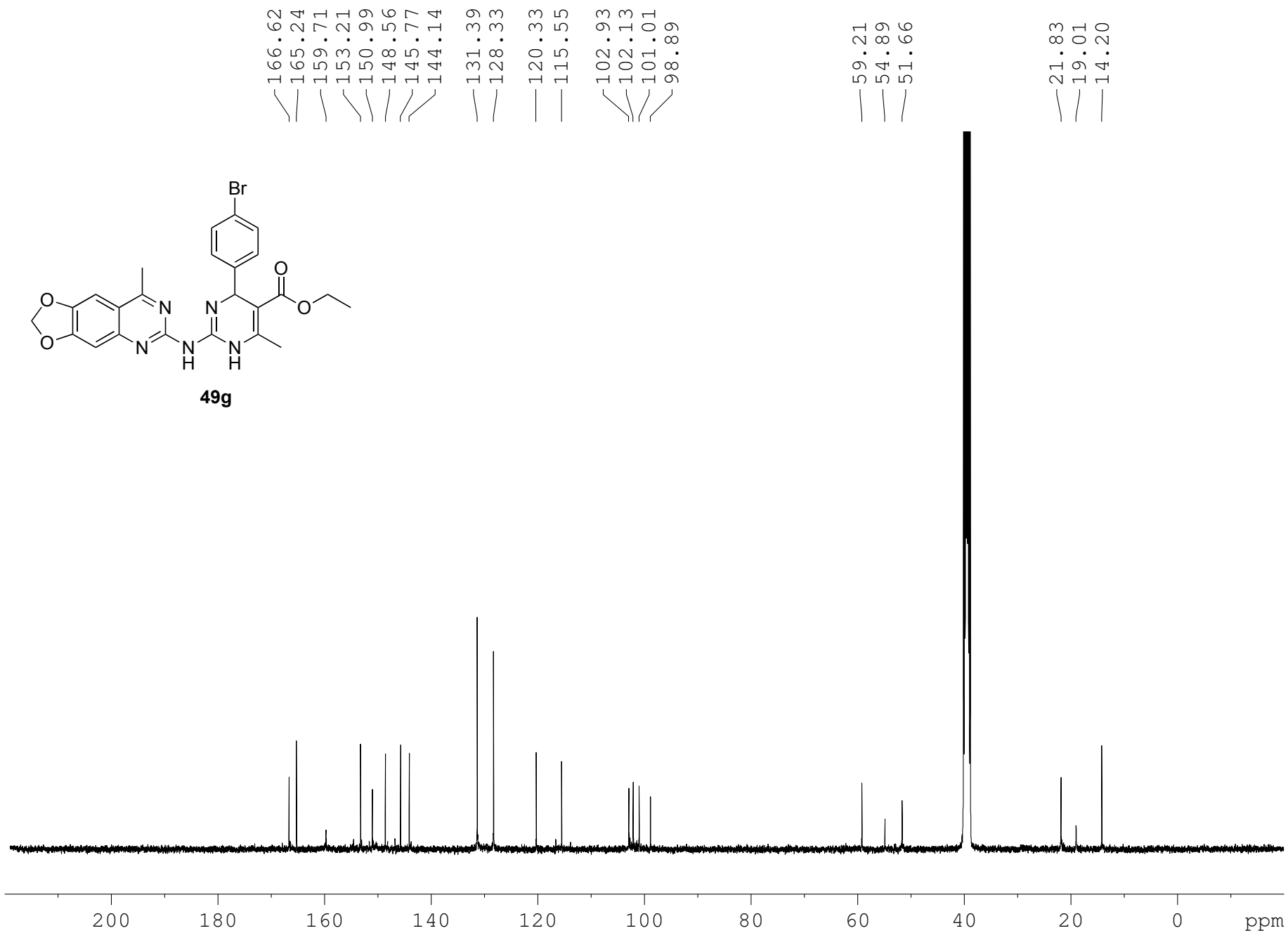
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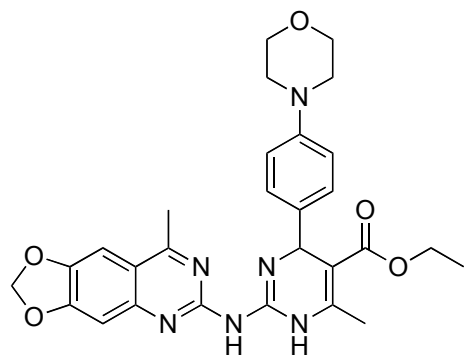




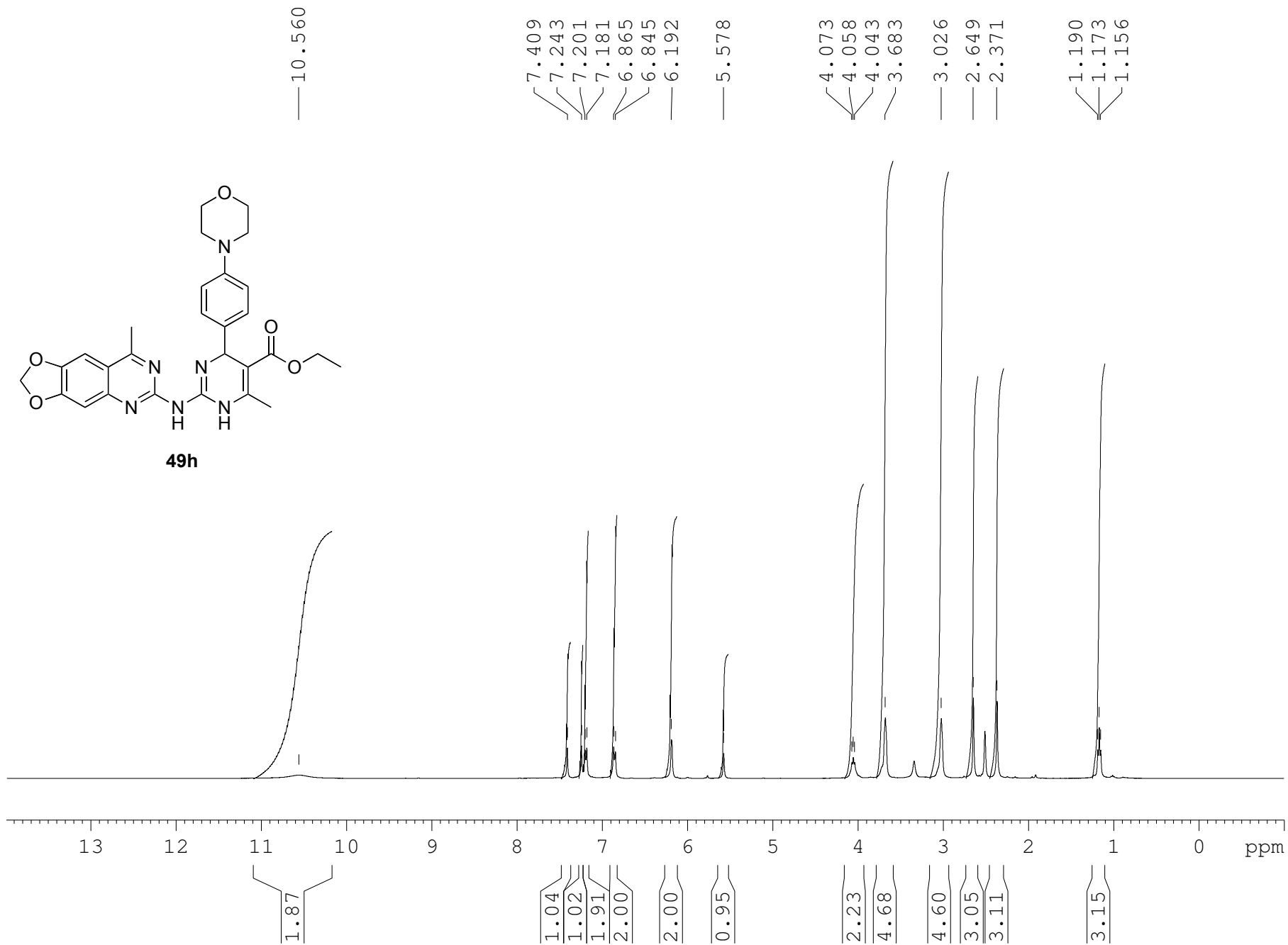


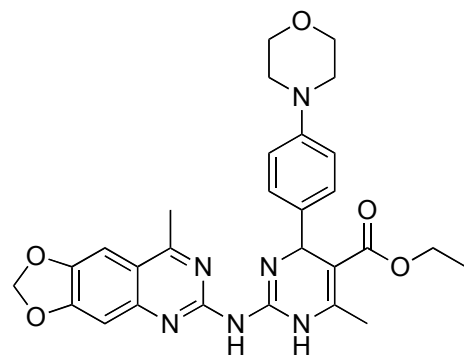
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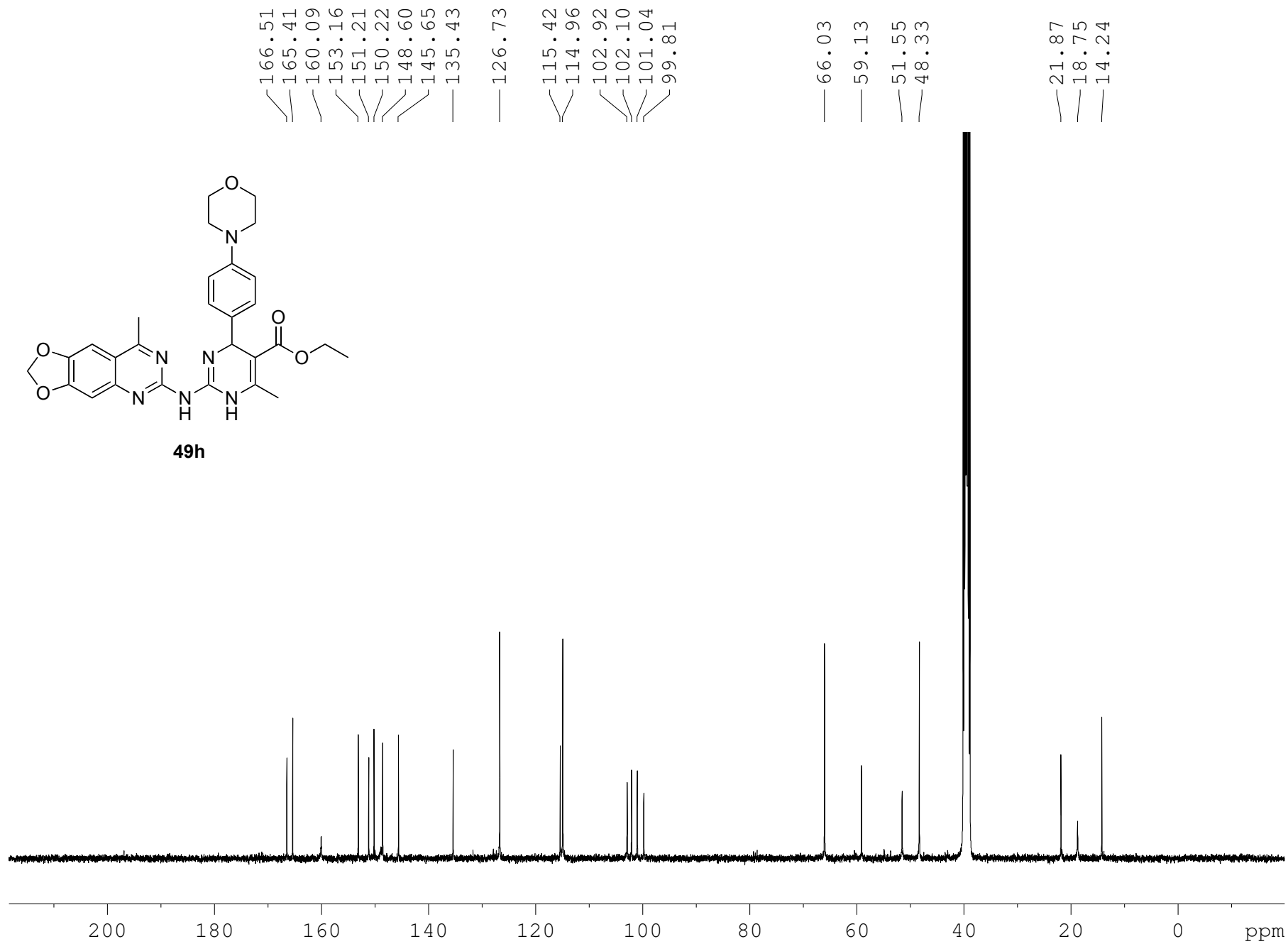


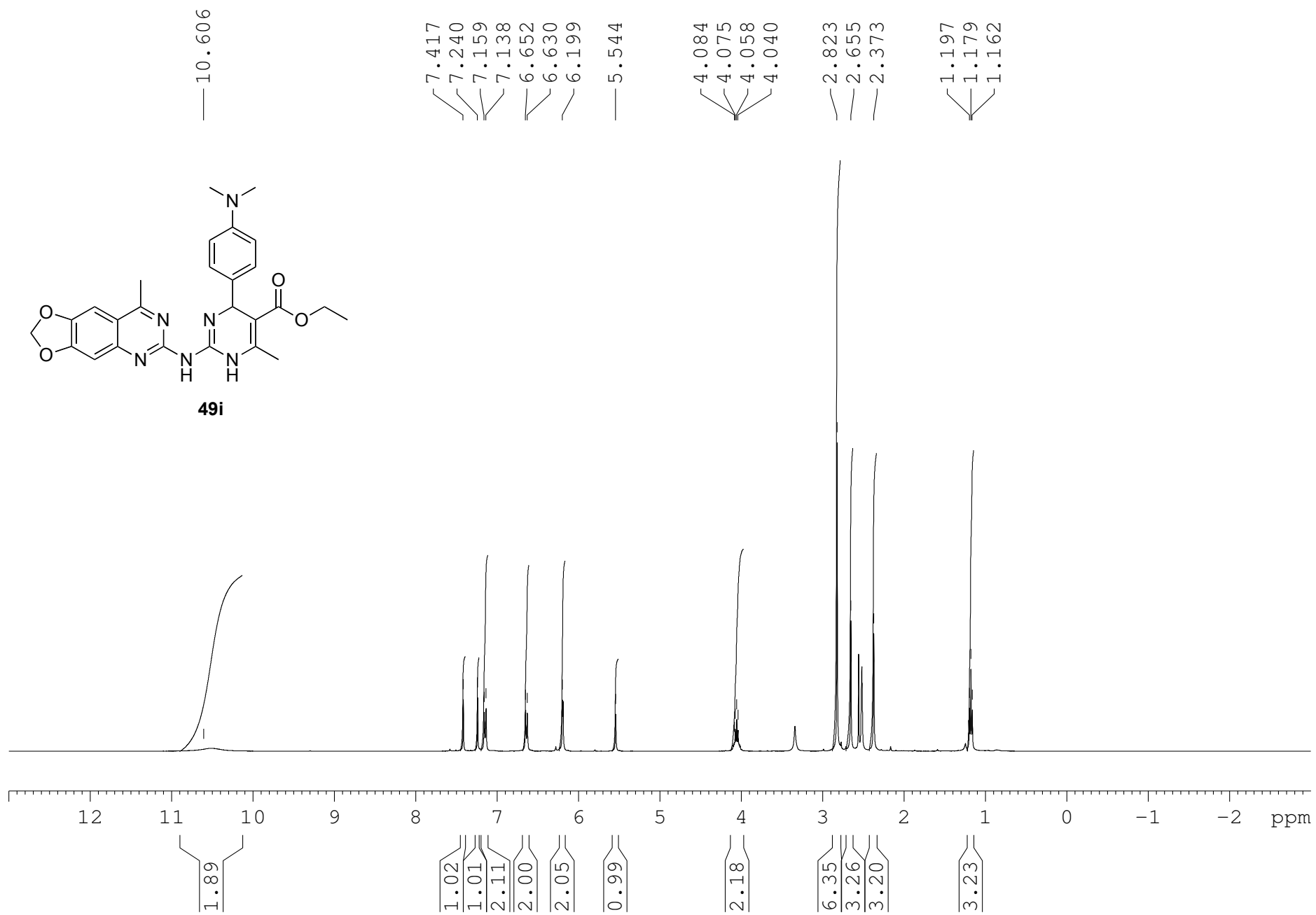
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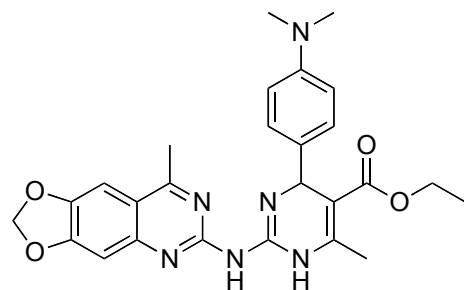




49h







49i

