

Supporting Information

Chemo- and regiocontrolled approach to bipyrazoles and pyridones via the reaction of ethyl 5-acyl-4-pyrone-2-carboxylates with hydrazines

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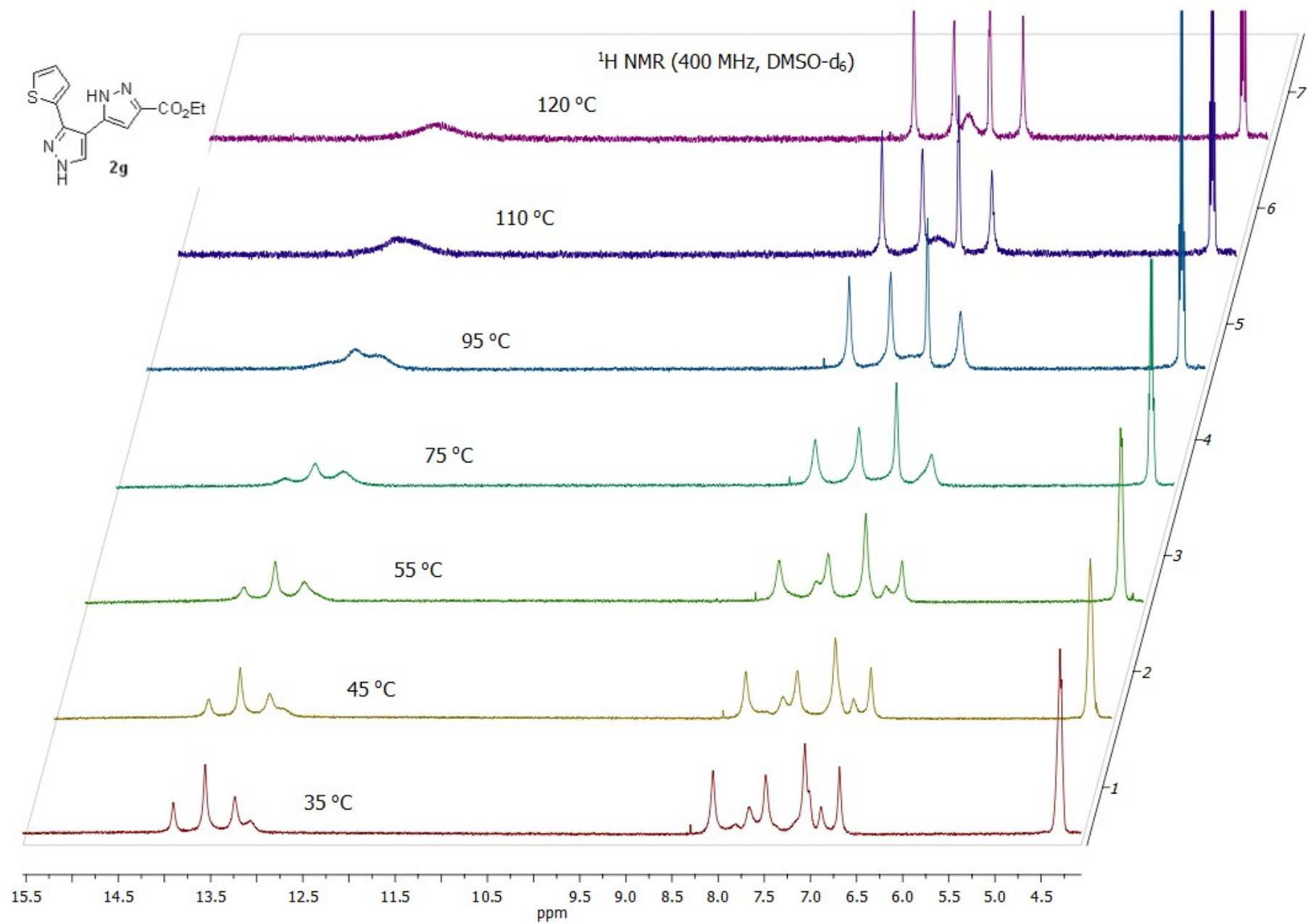
²*Chemical Technology Institute, Ural Federal University, 19 Mira Str., 620002, Ekaterinburg, Russian Federation*

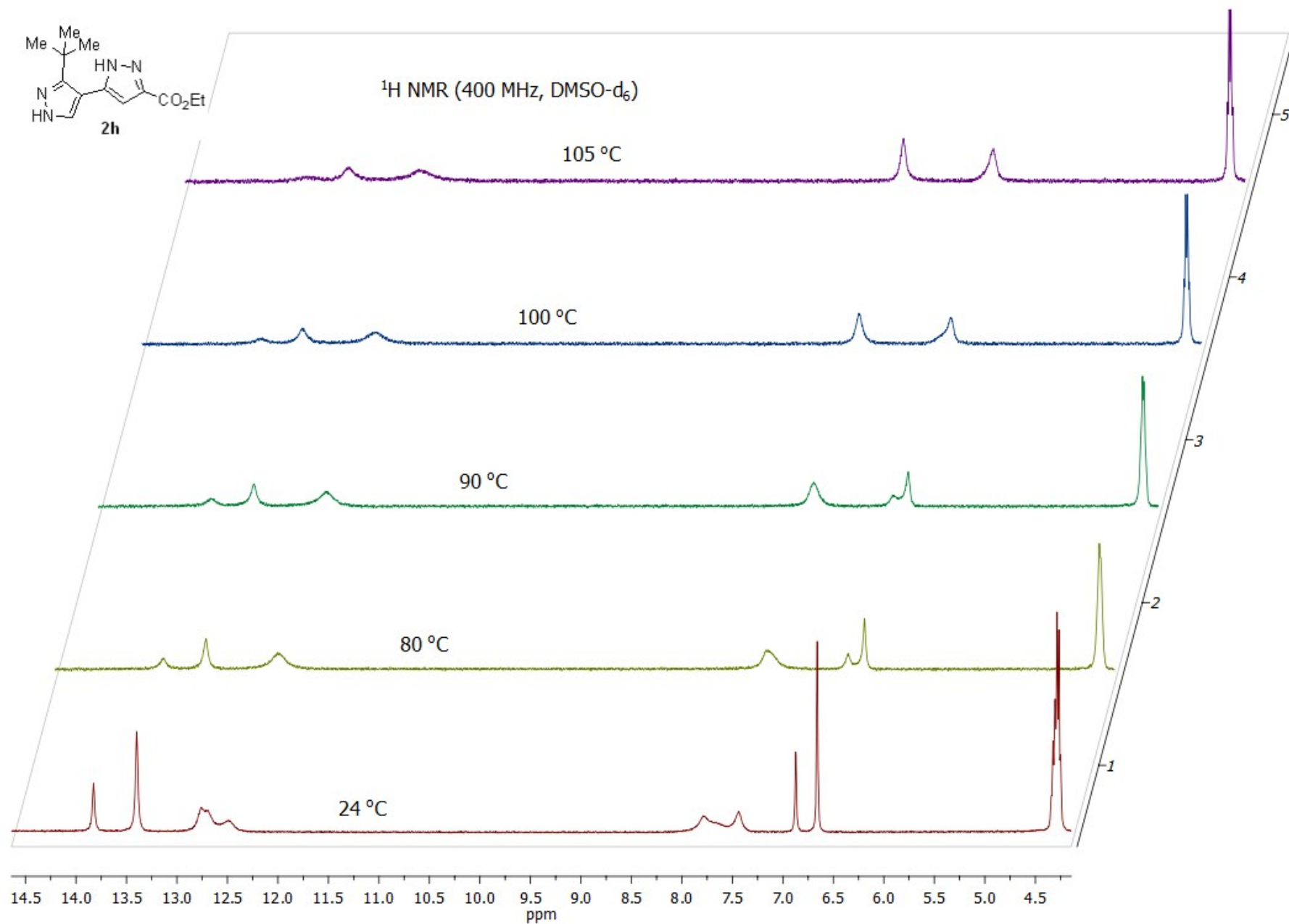
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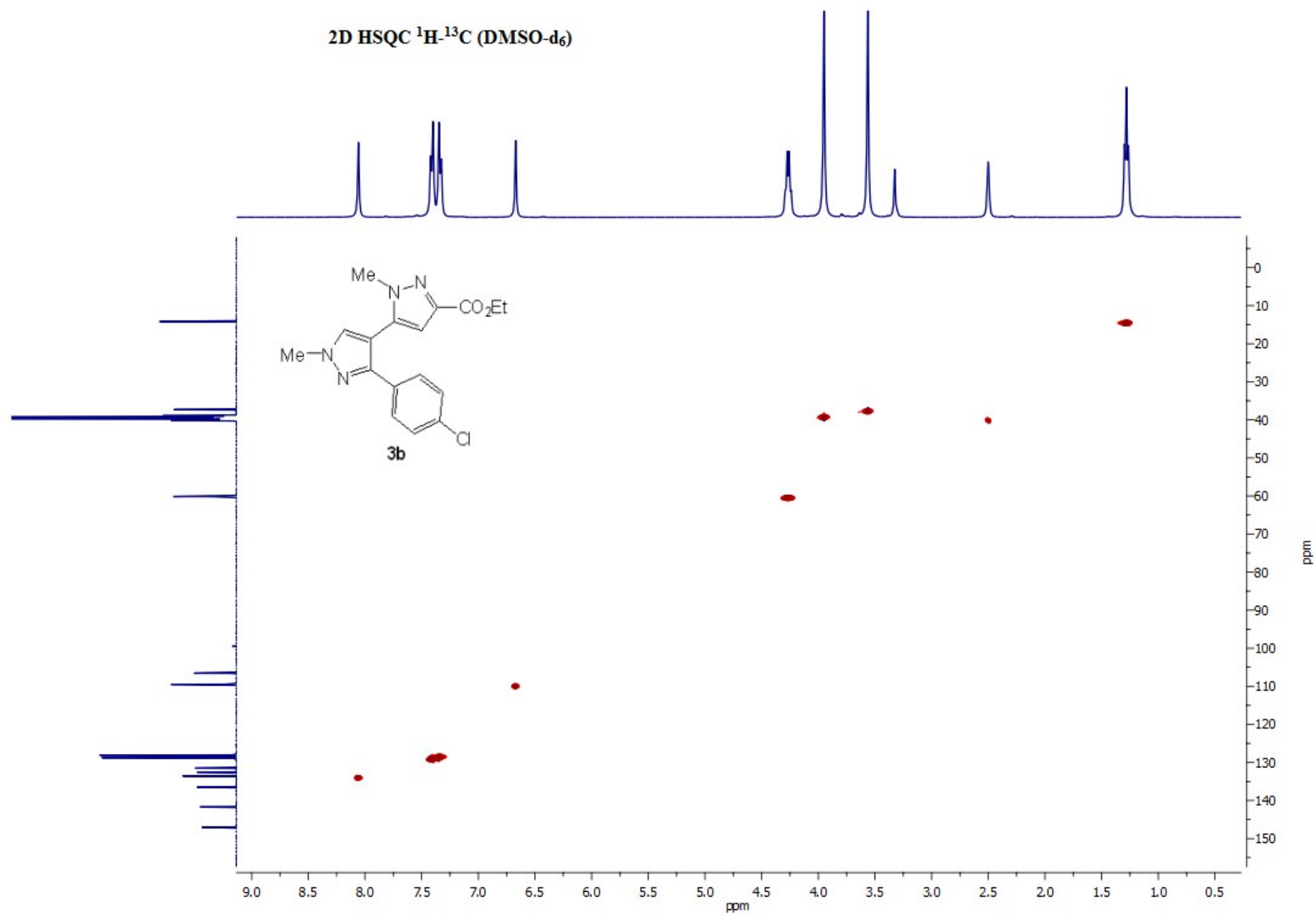
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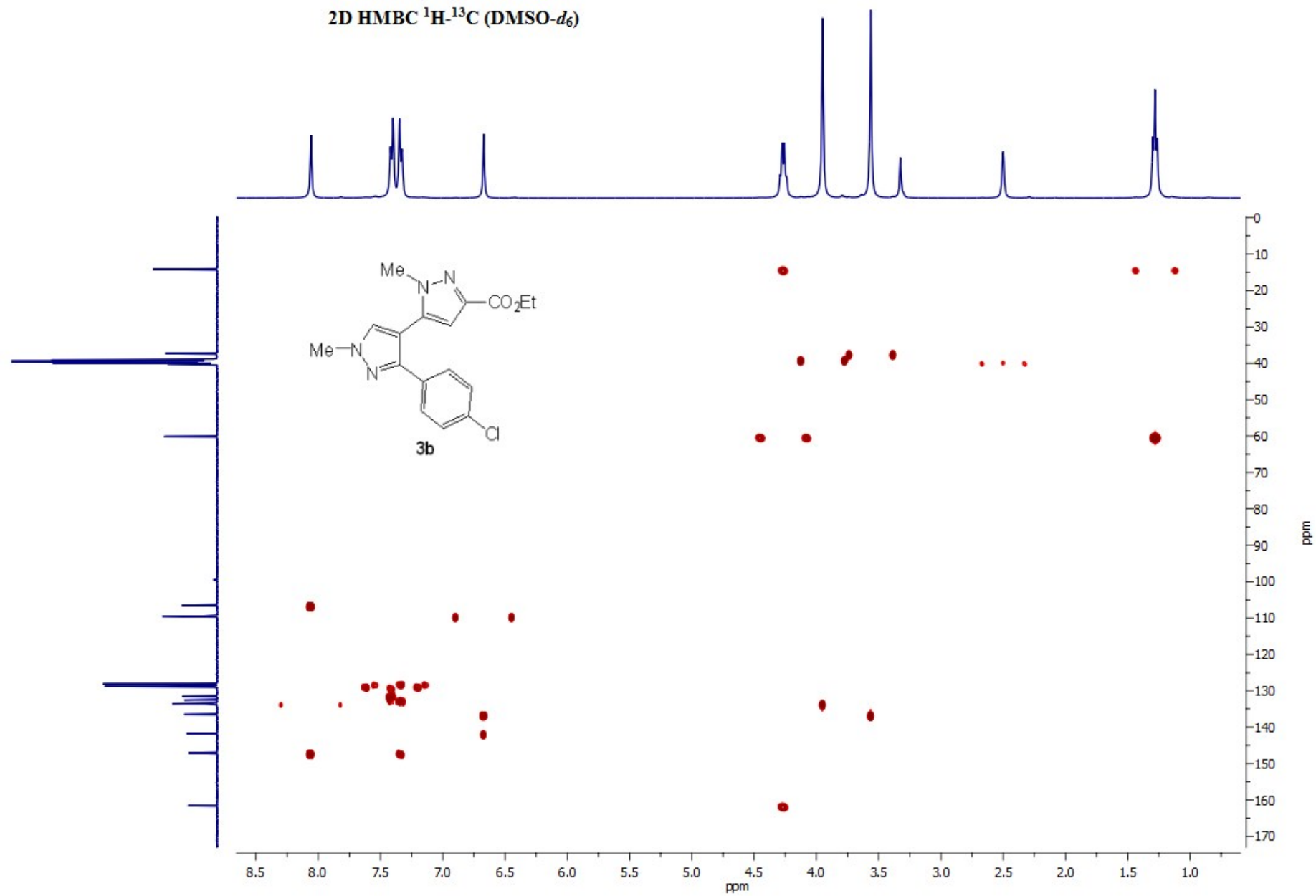


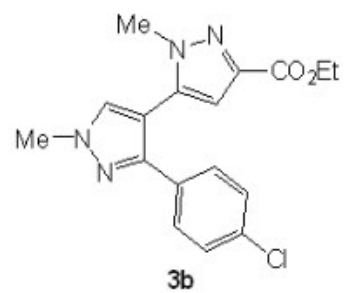


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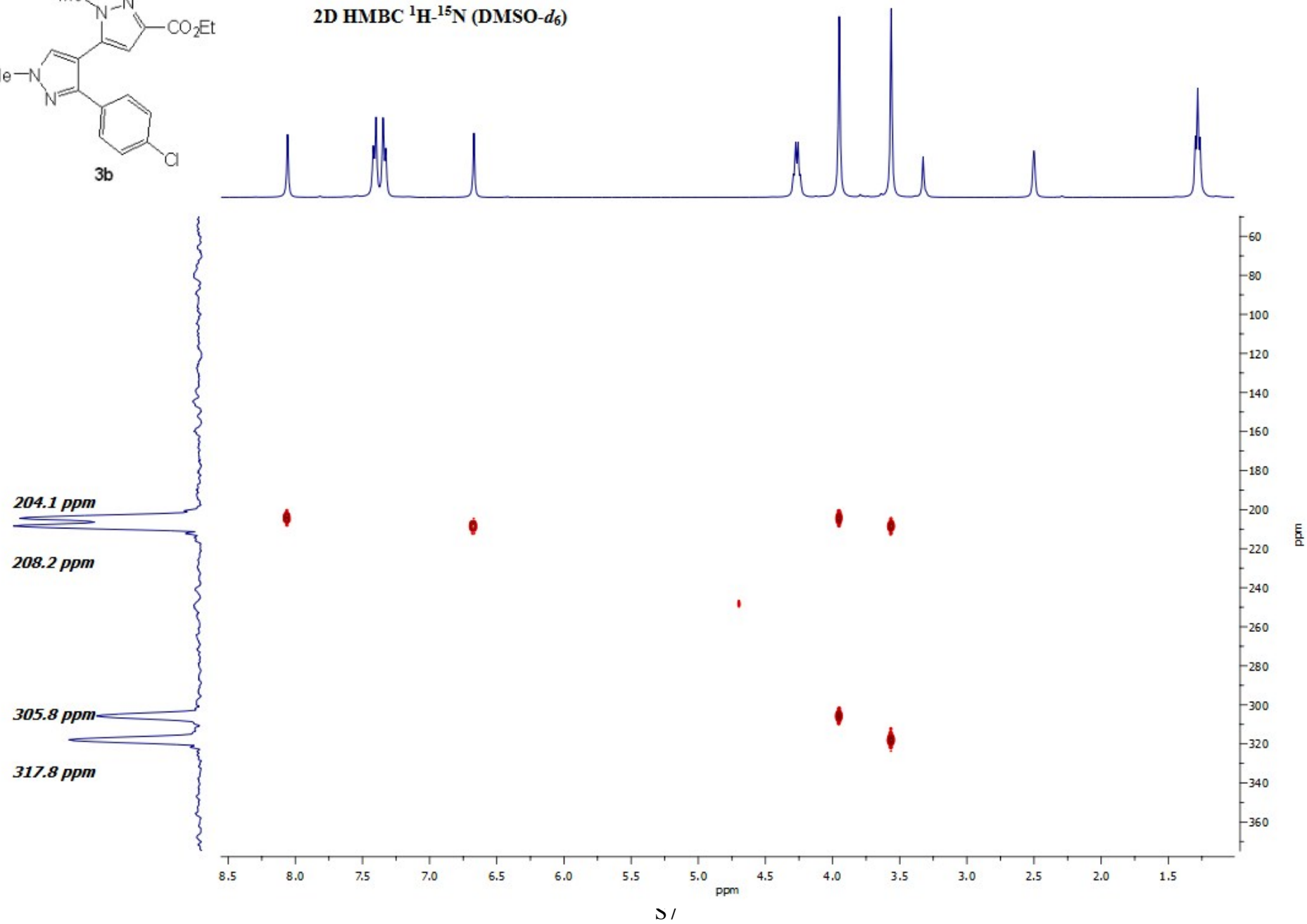


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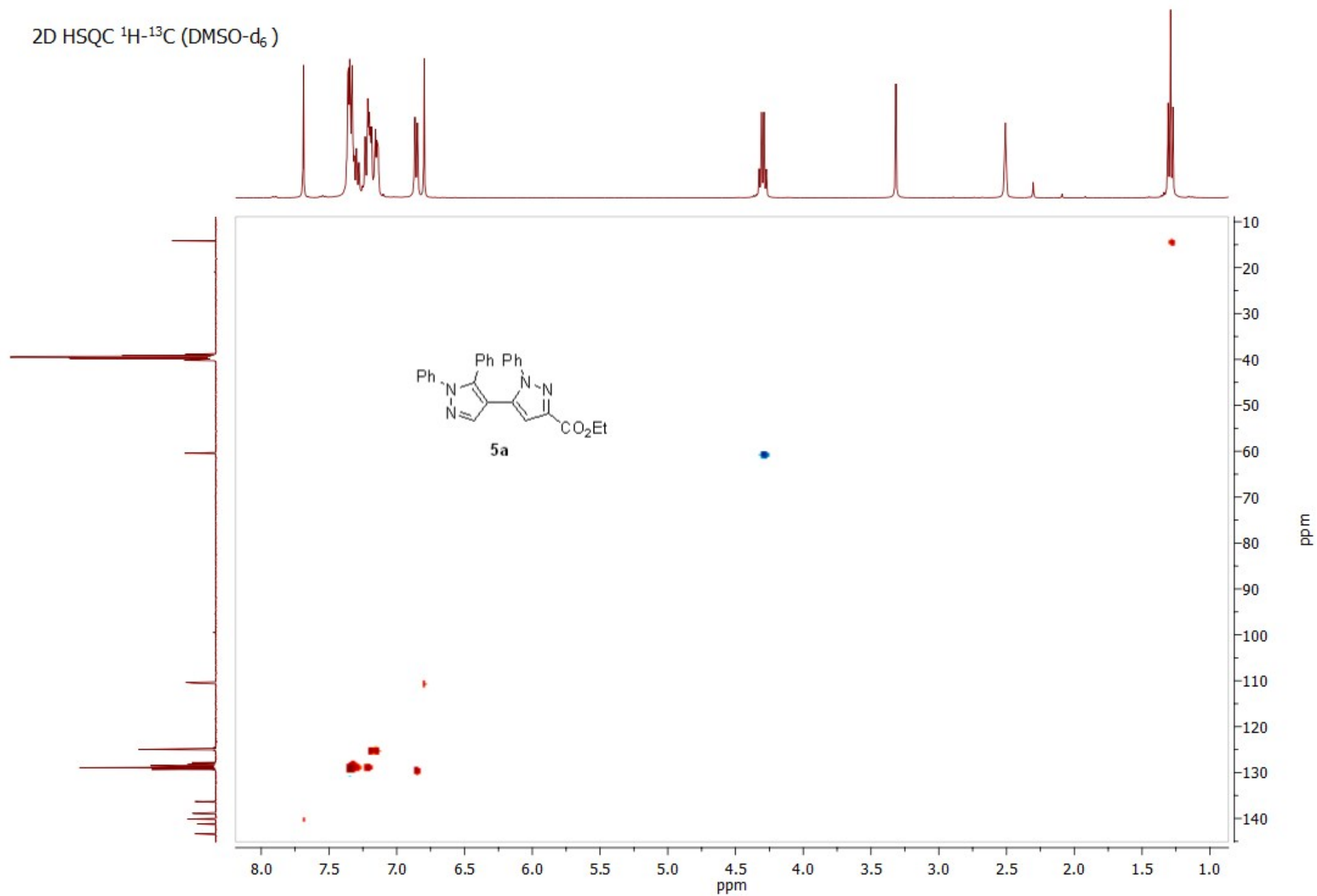




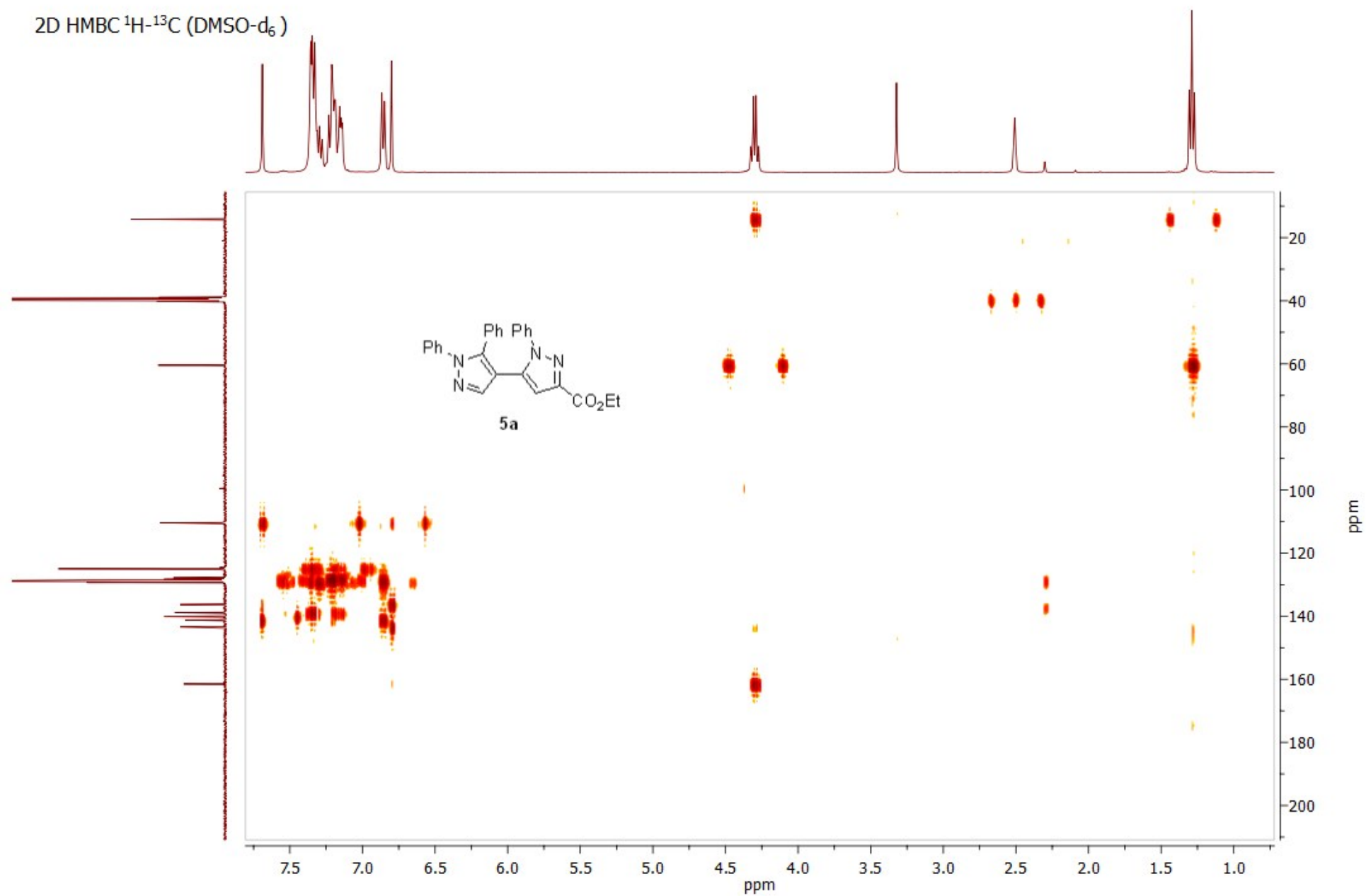
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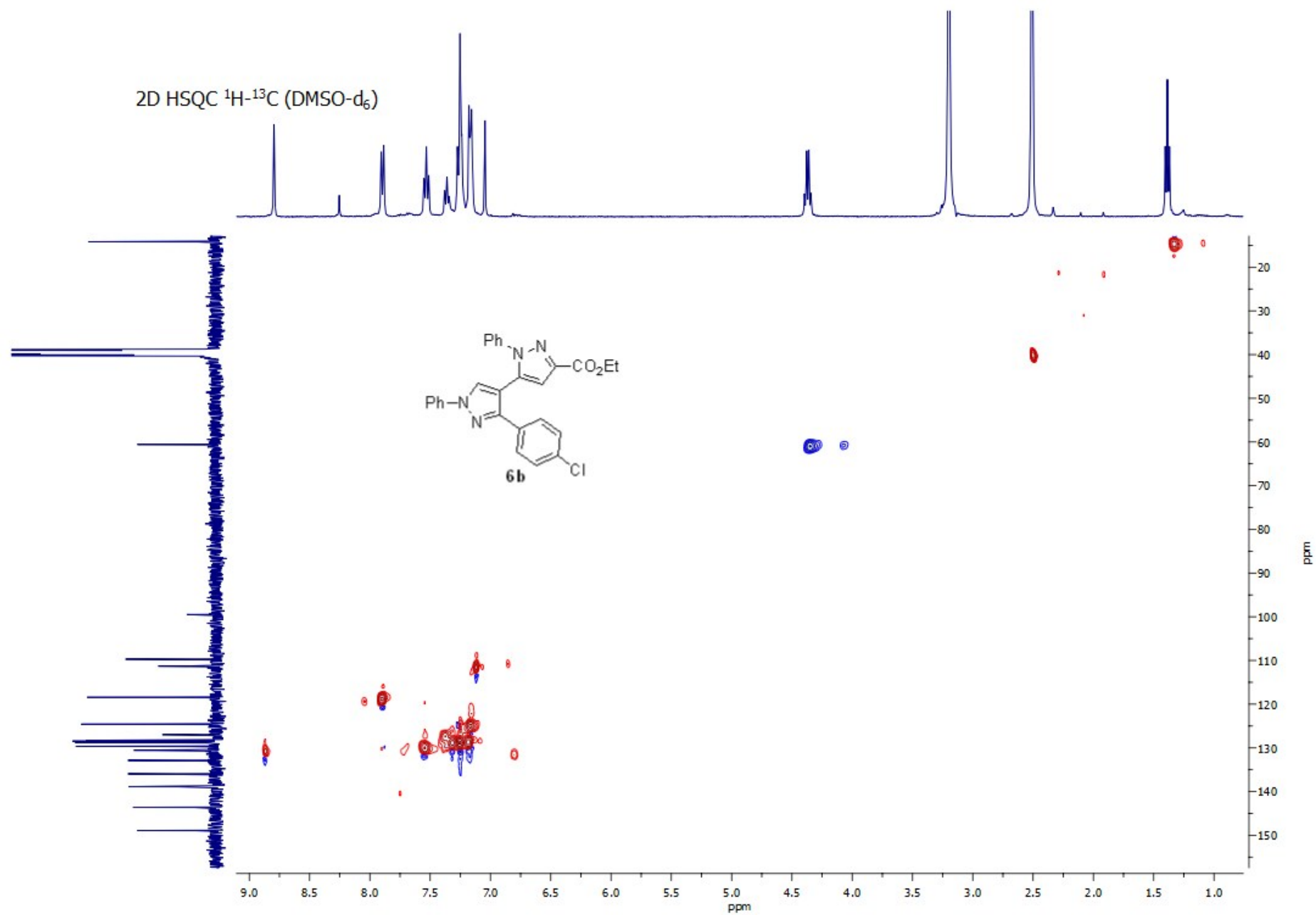


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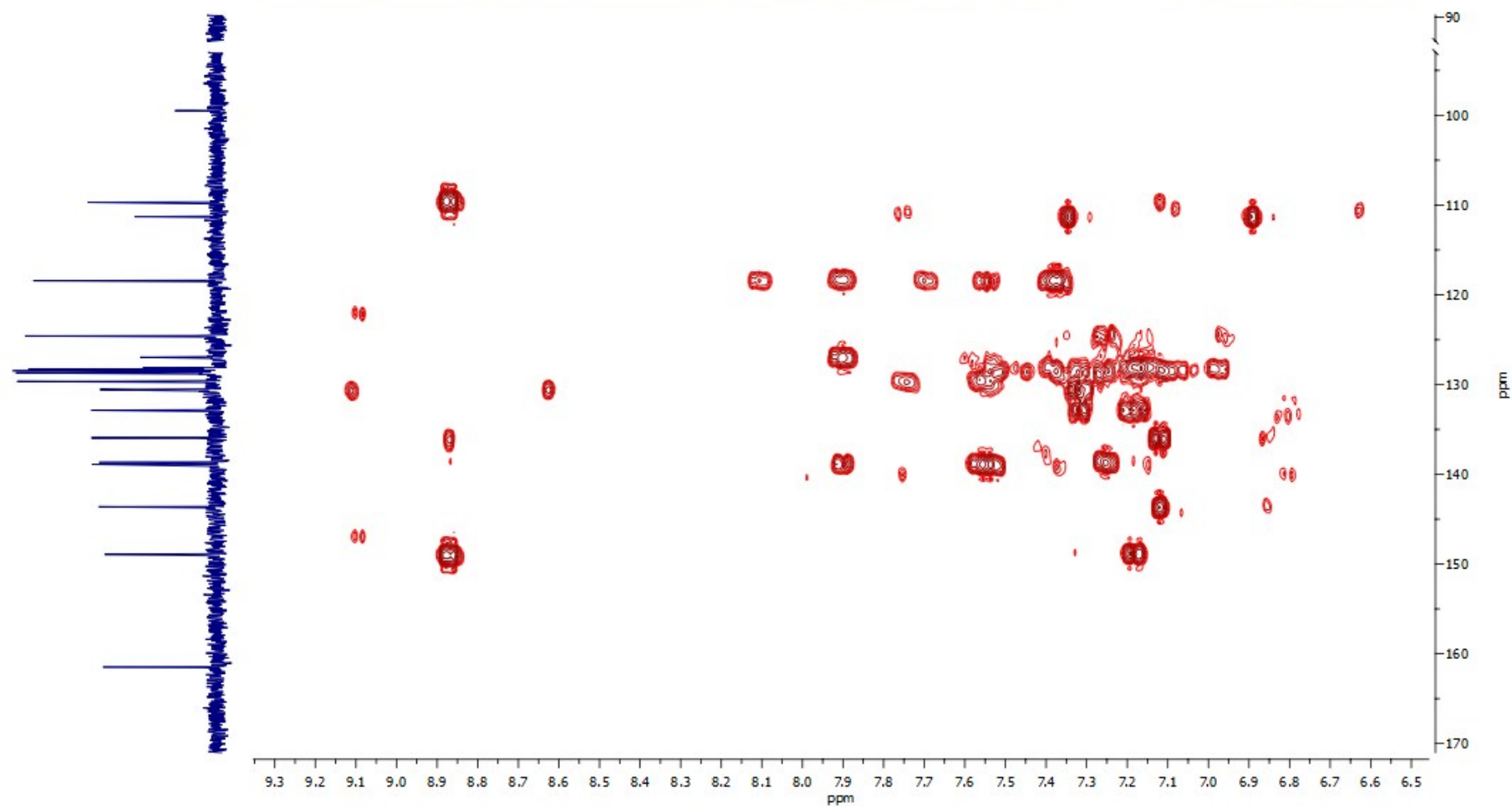
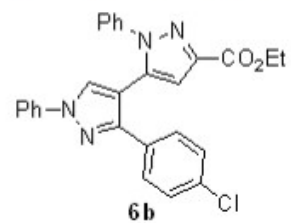


2D HMBC ^1H - ^{13}C (DMSO- d_6)

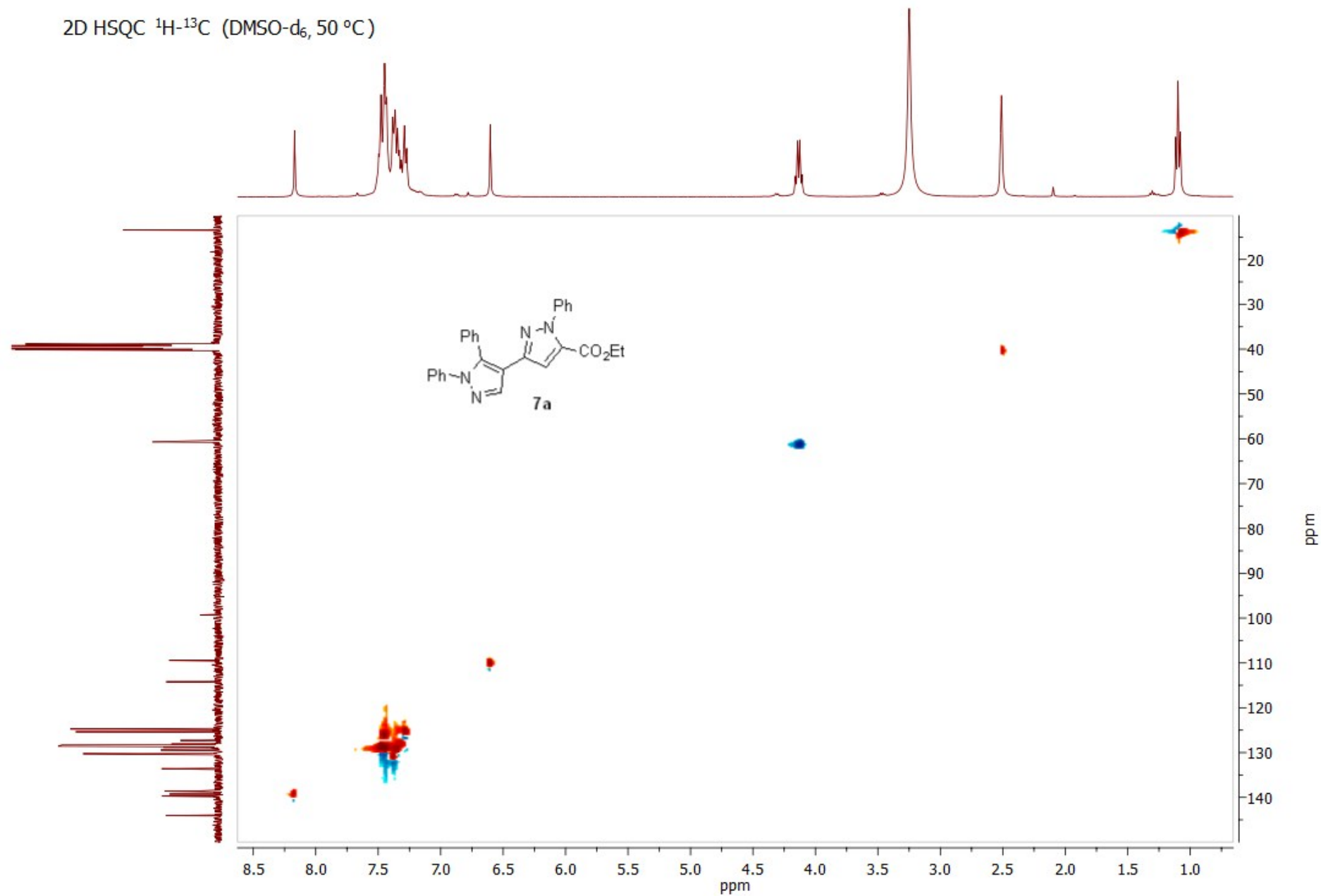


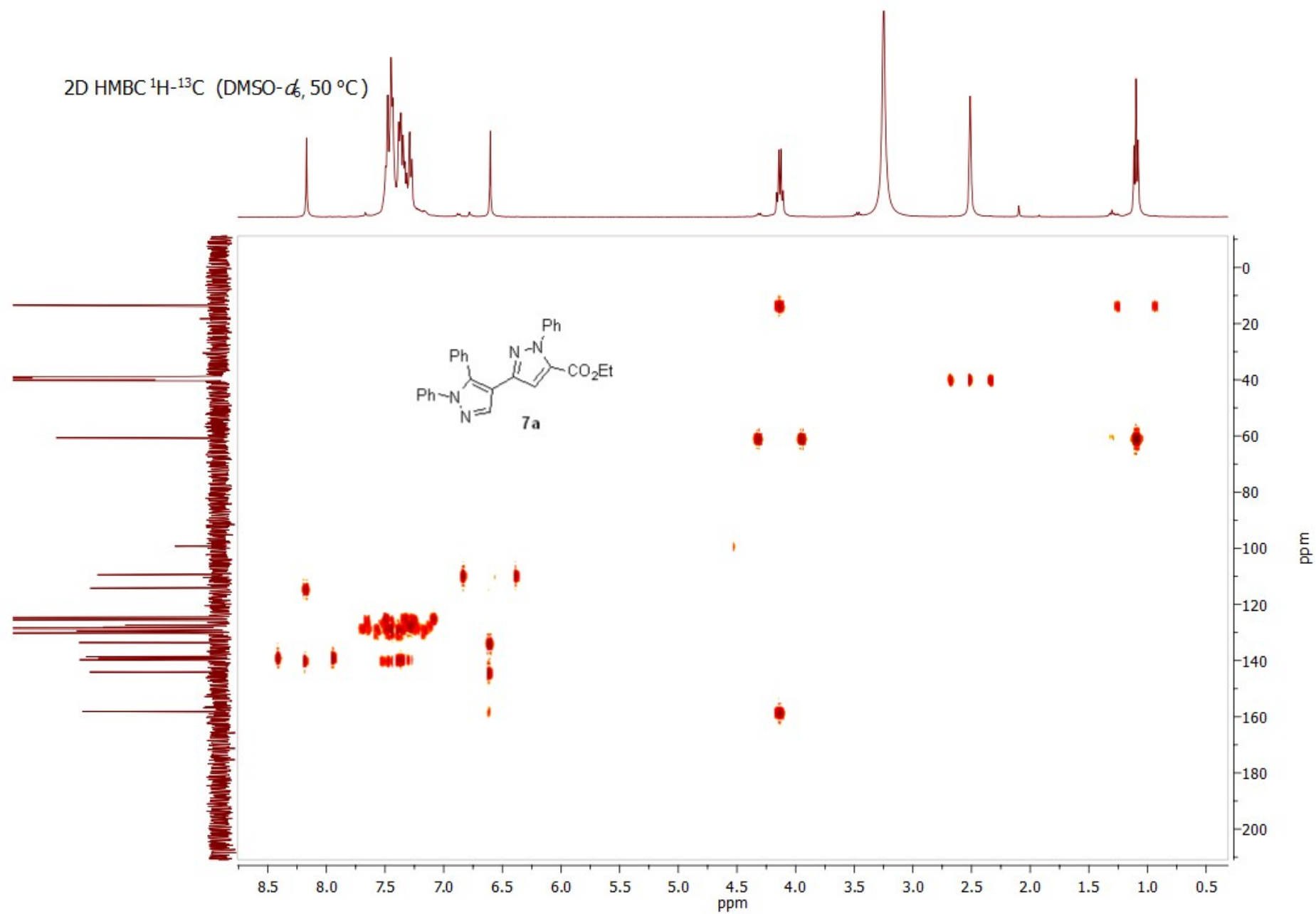


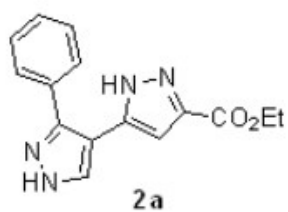
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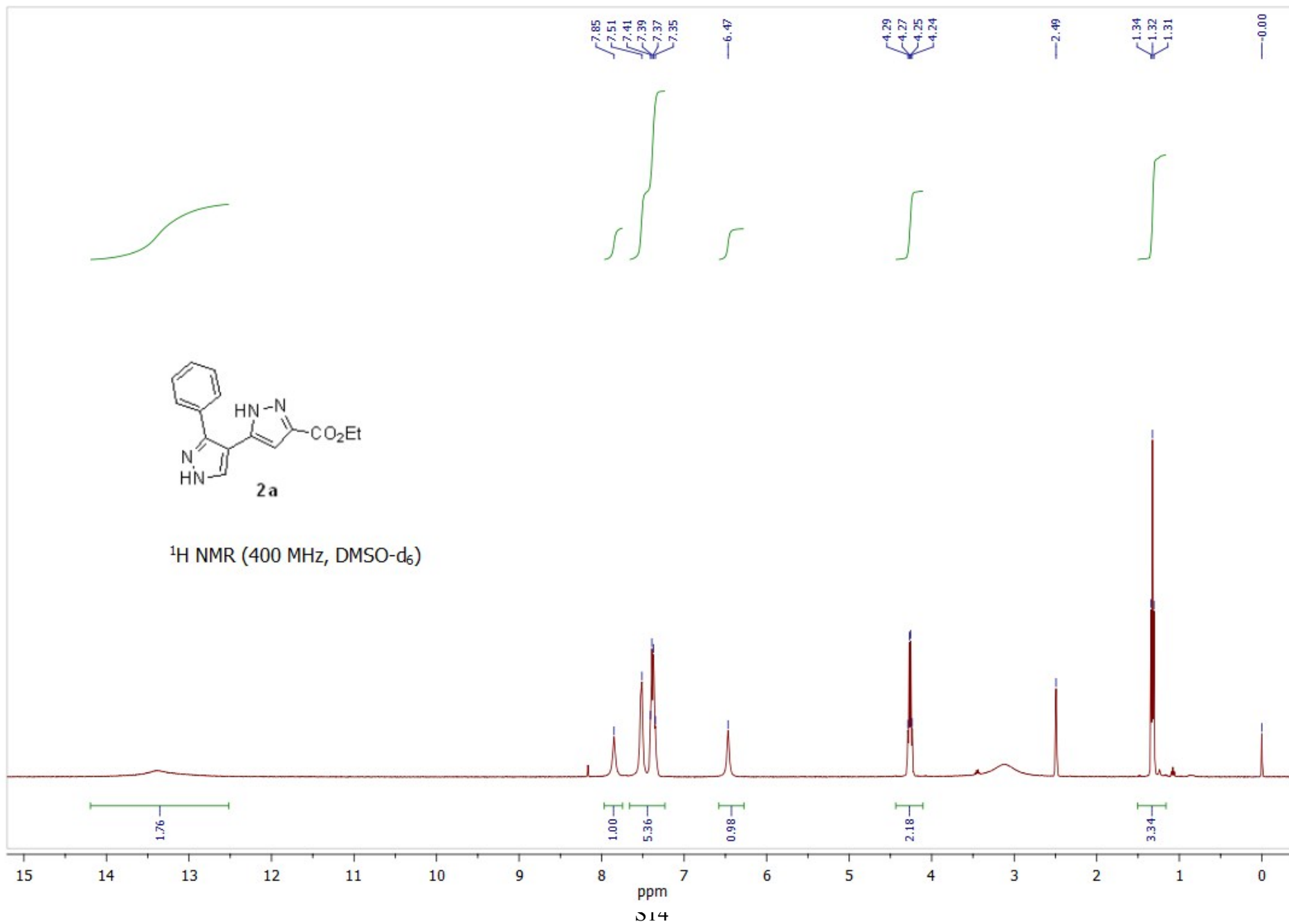
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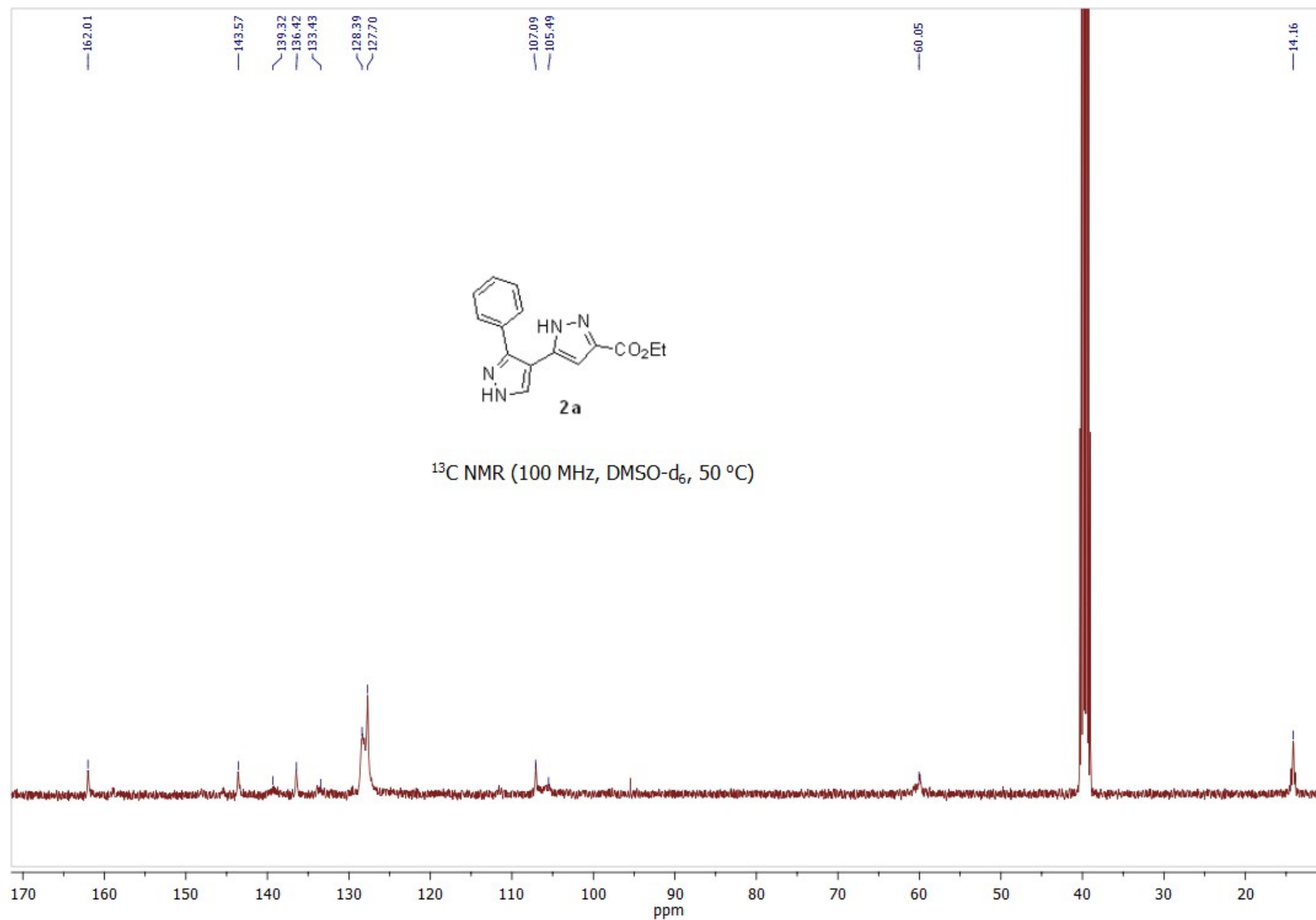


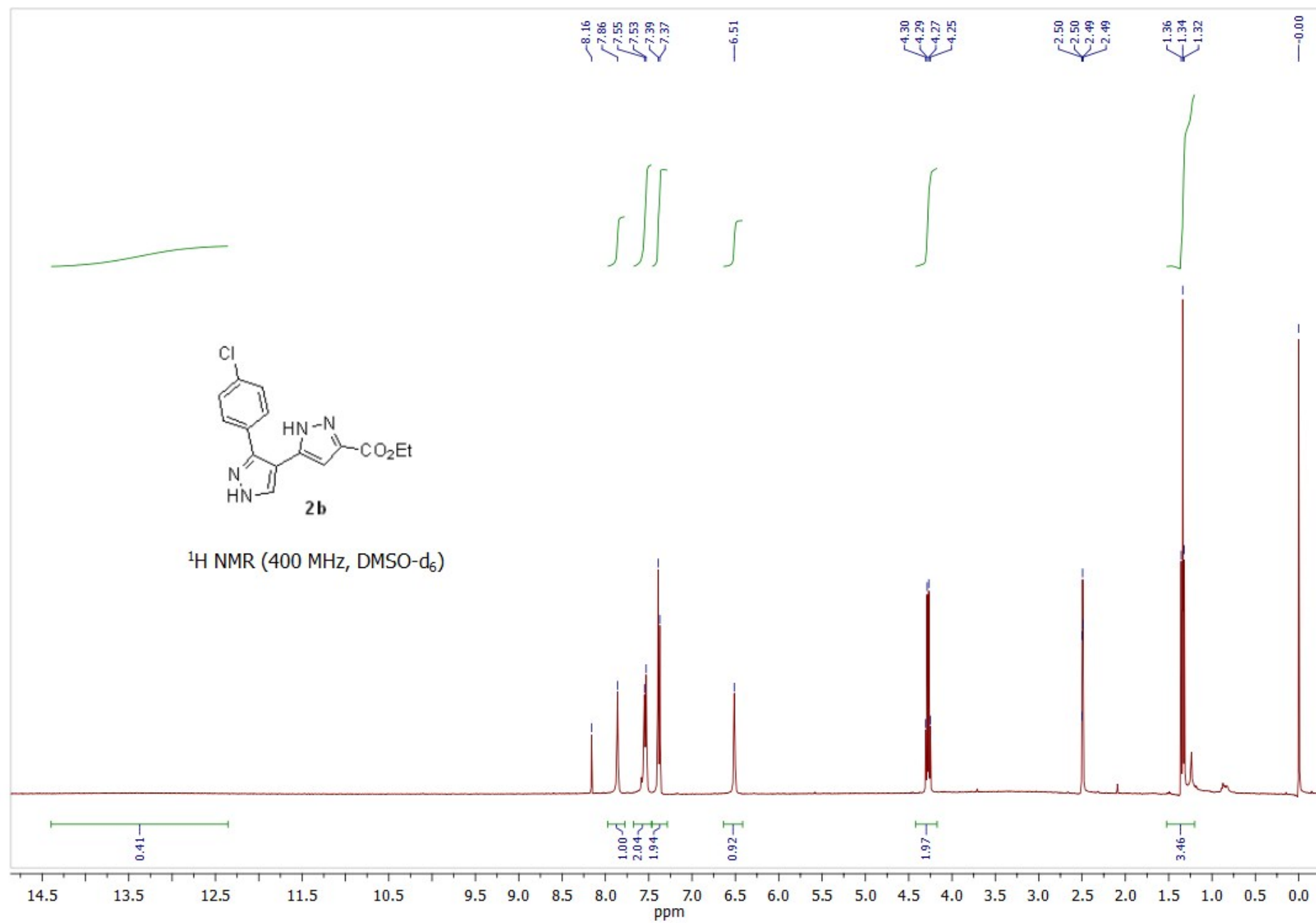


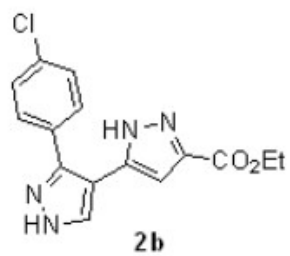


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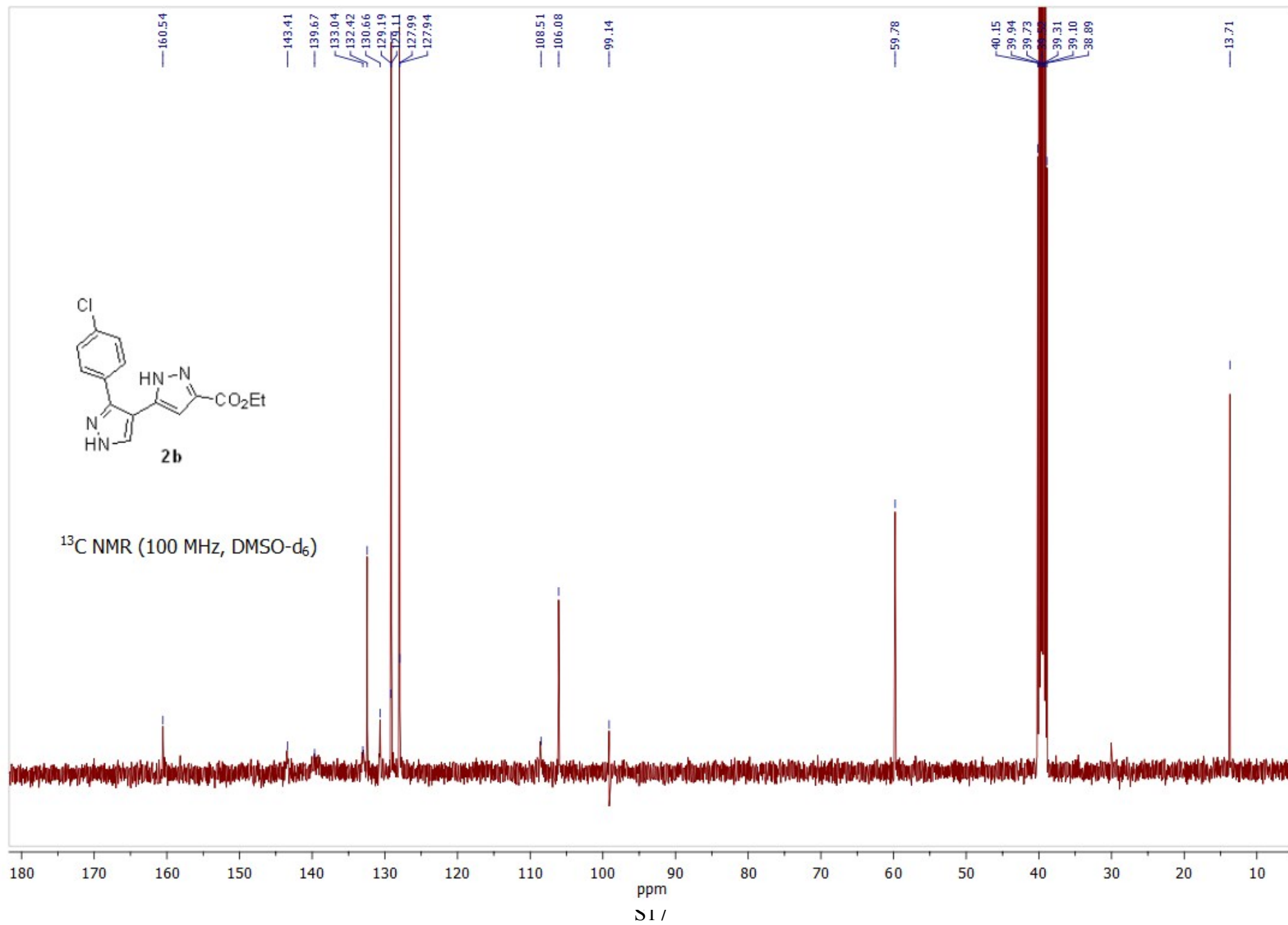


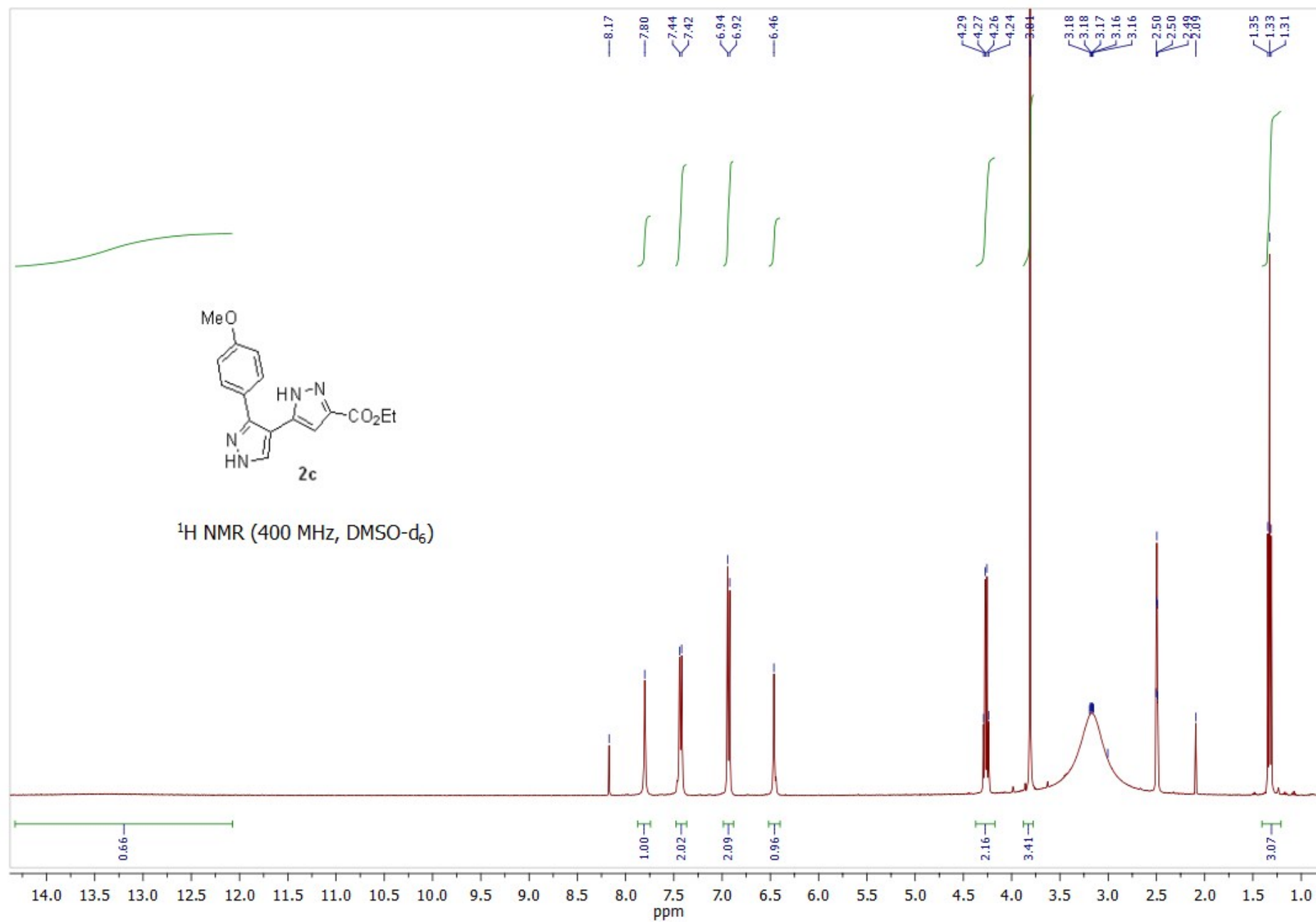


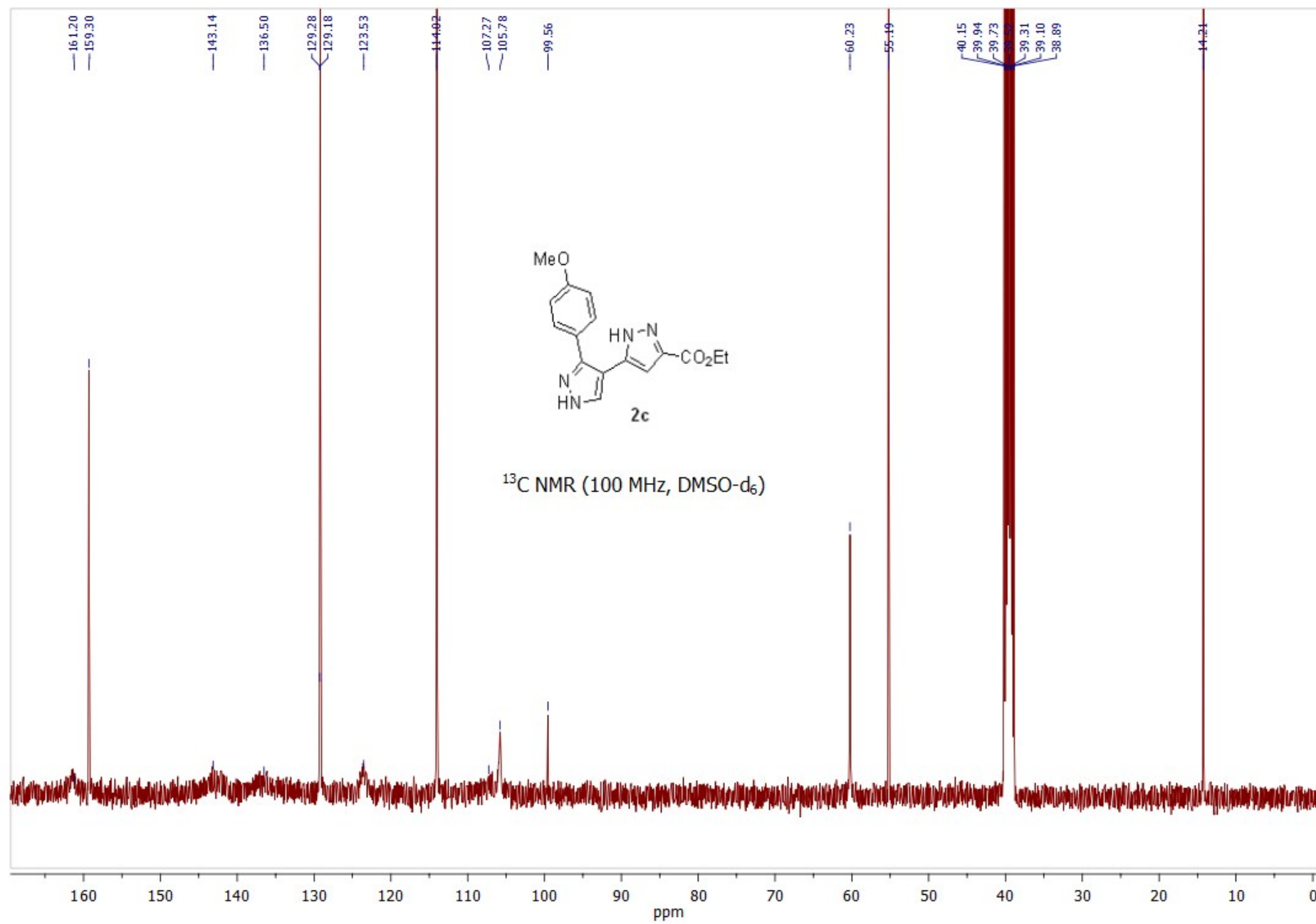


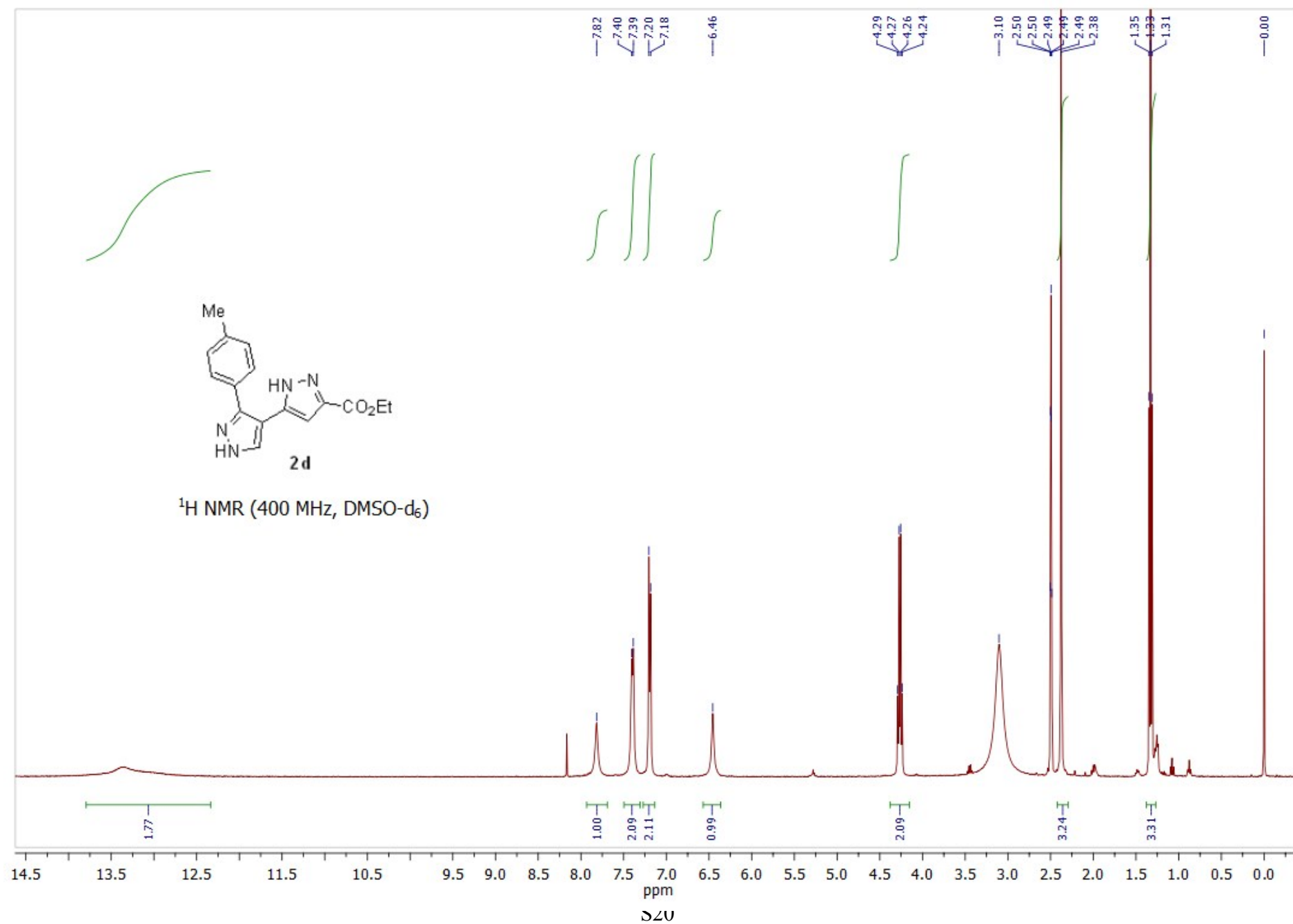


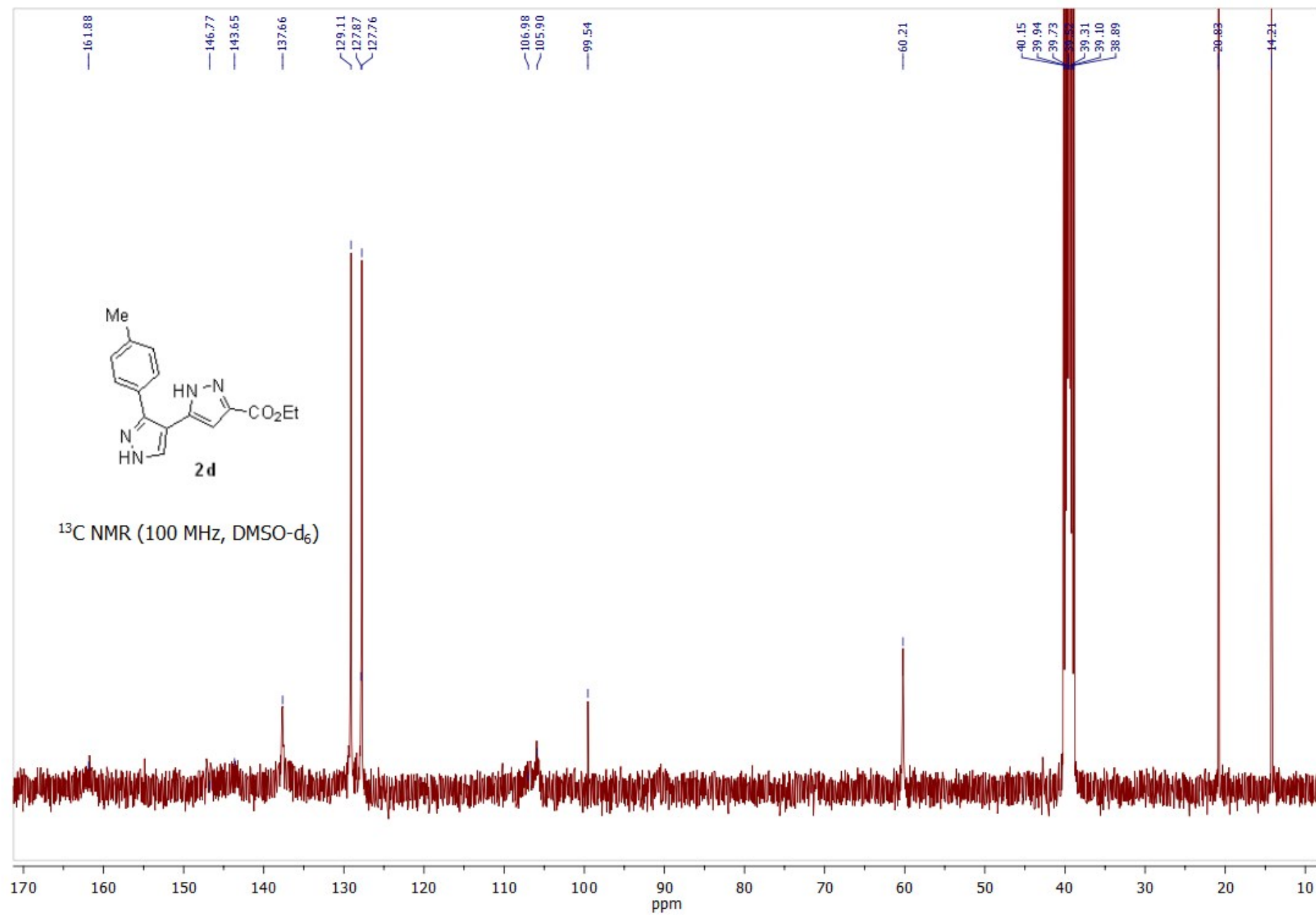
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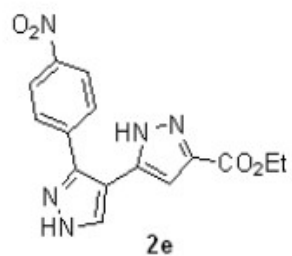




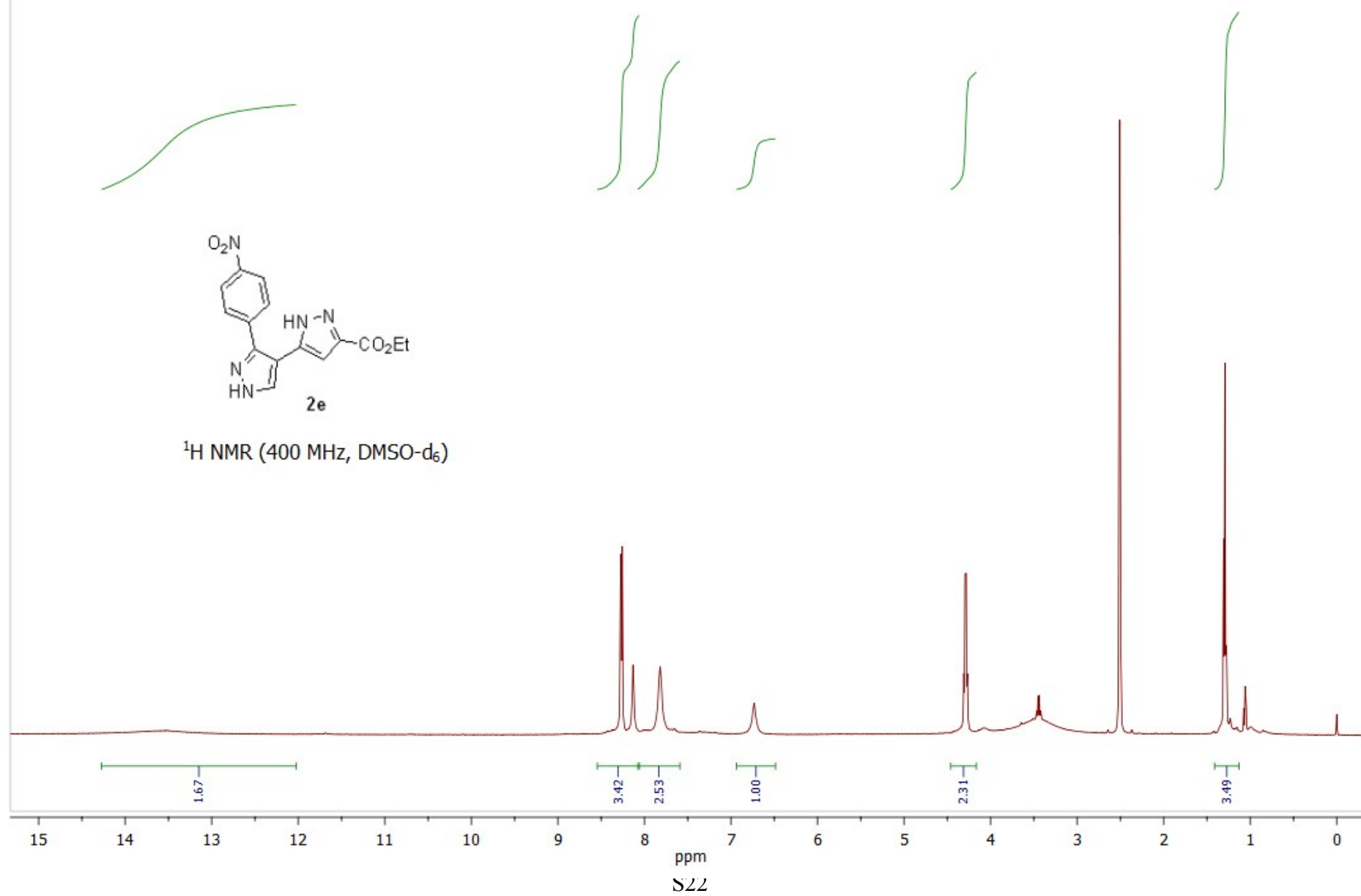


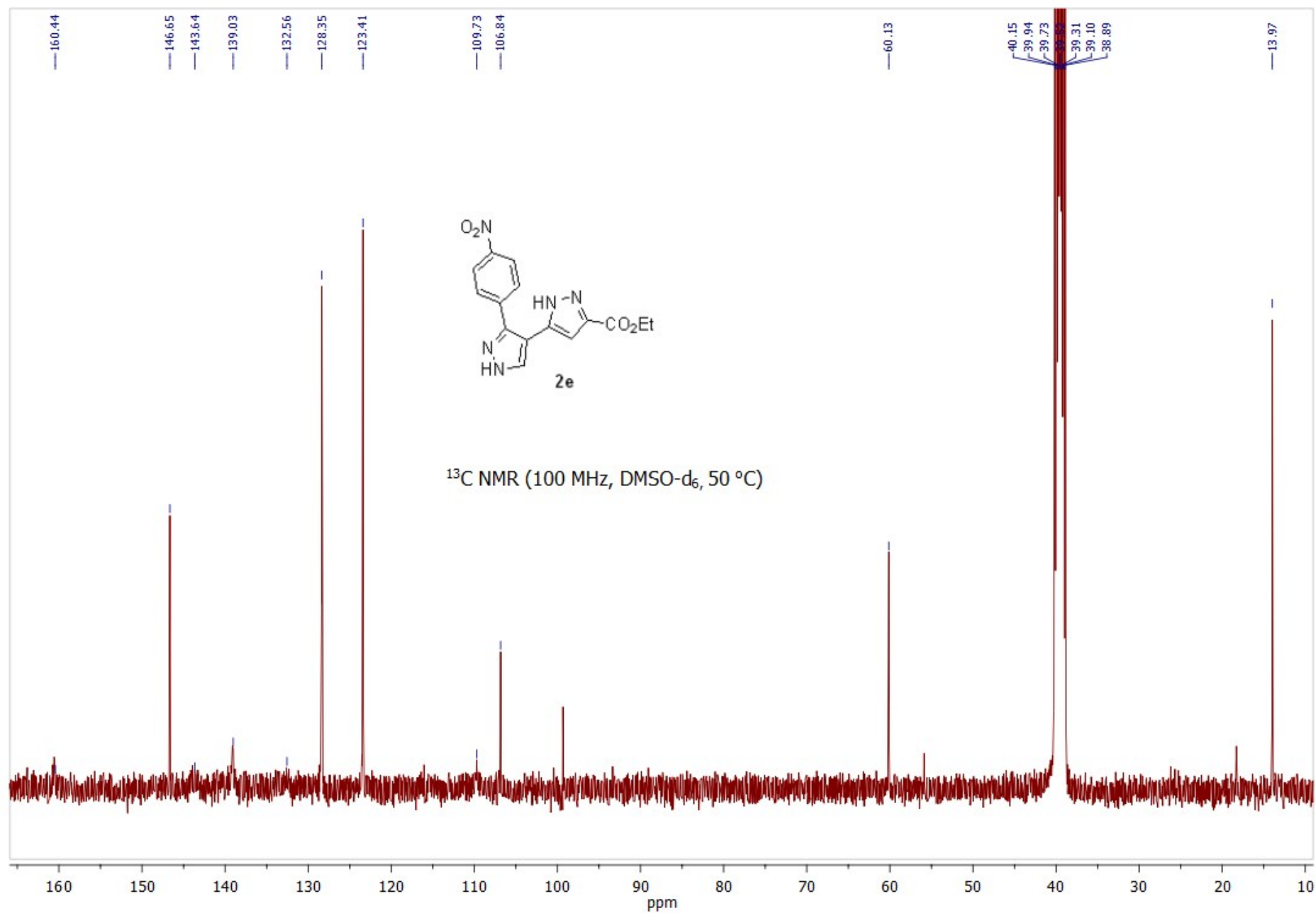


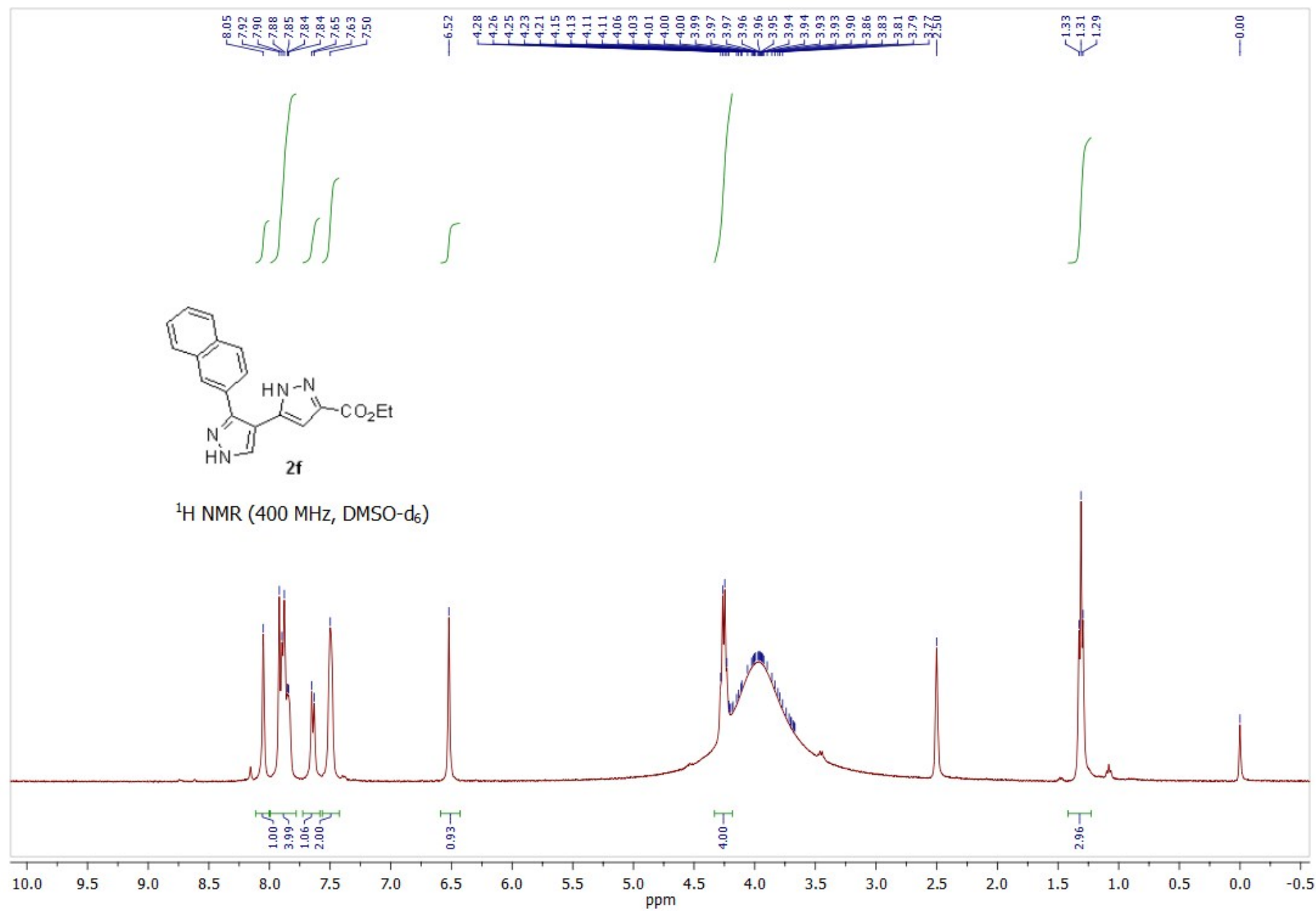


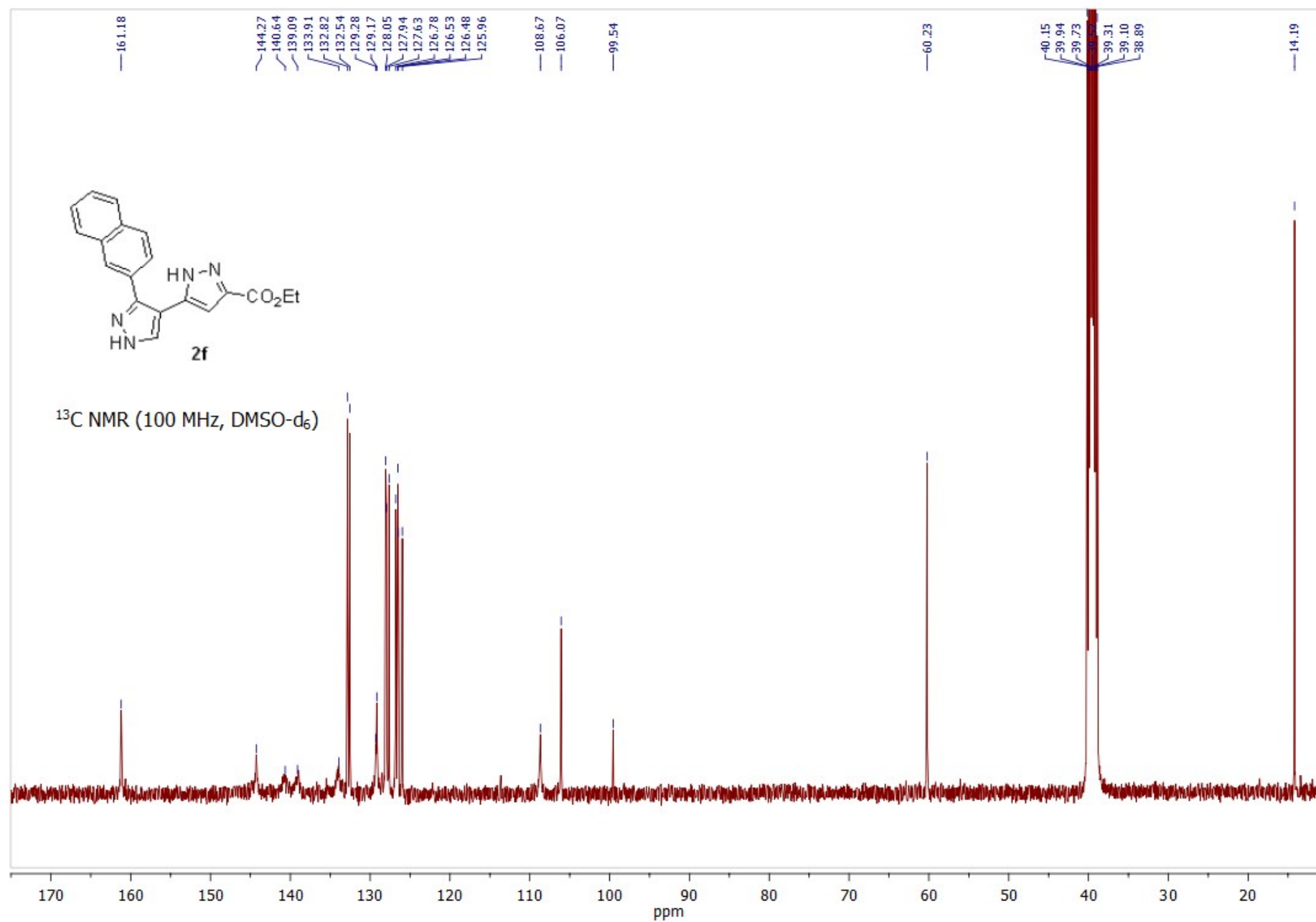


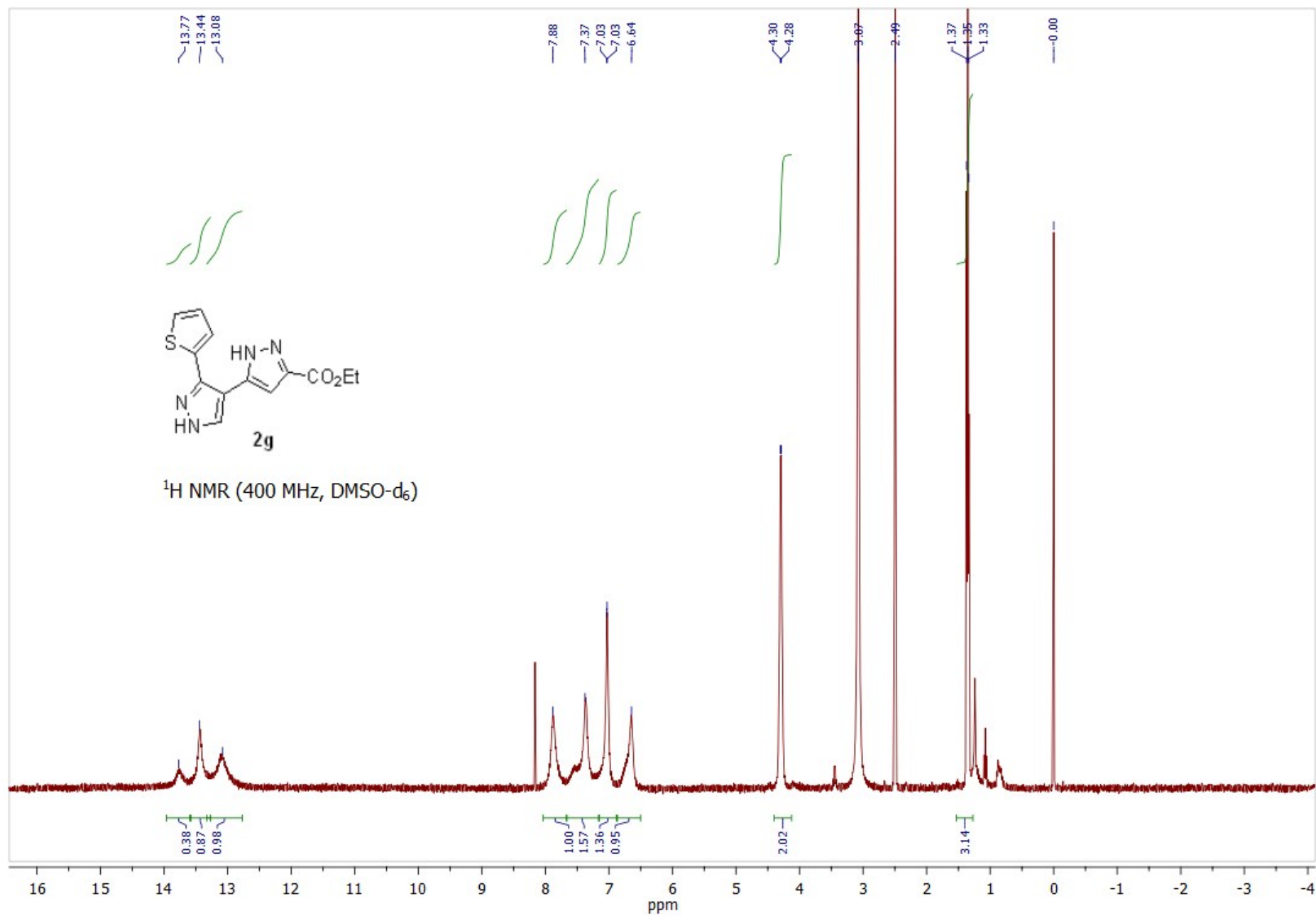
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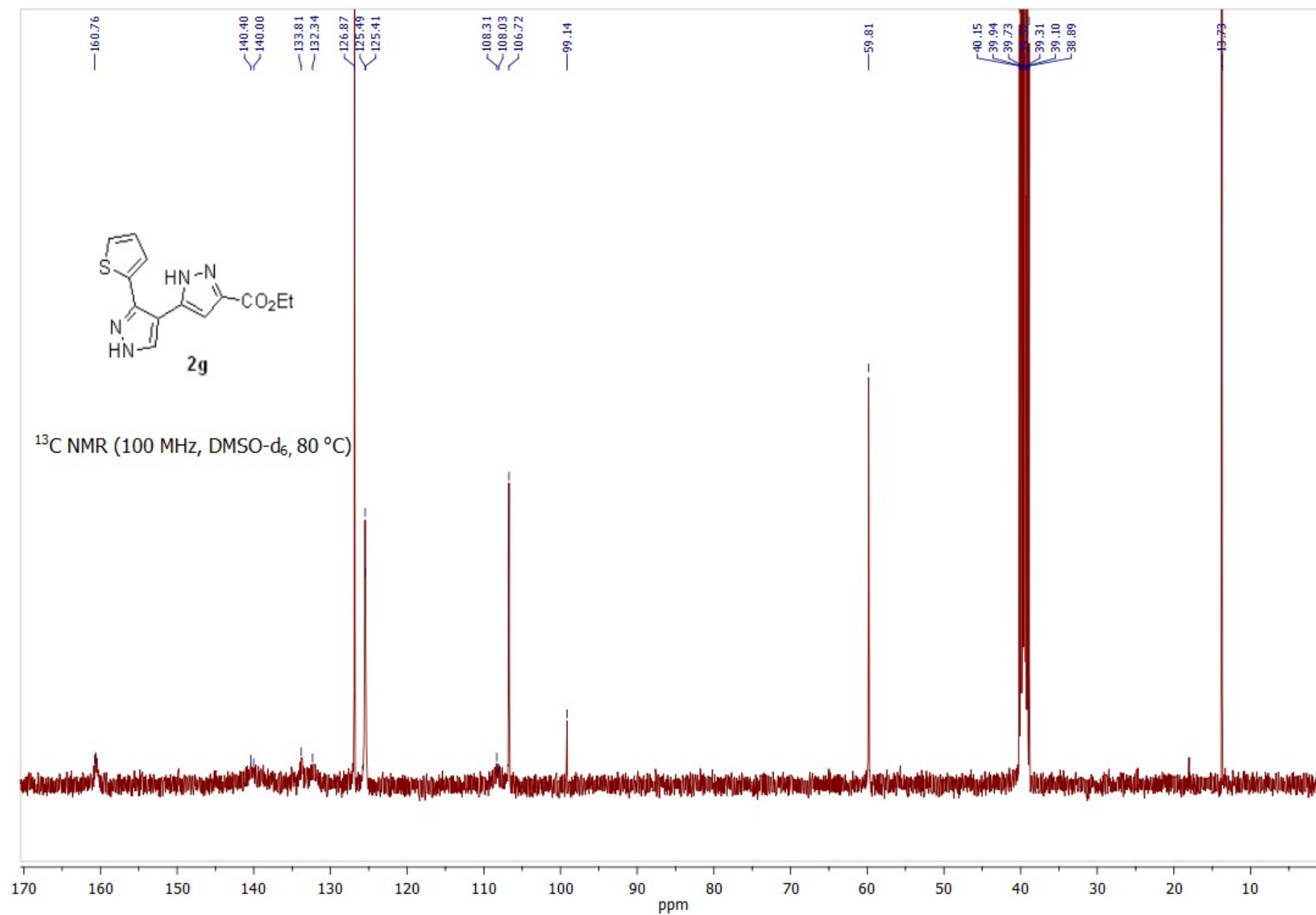


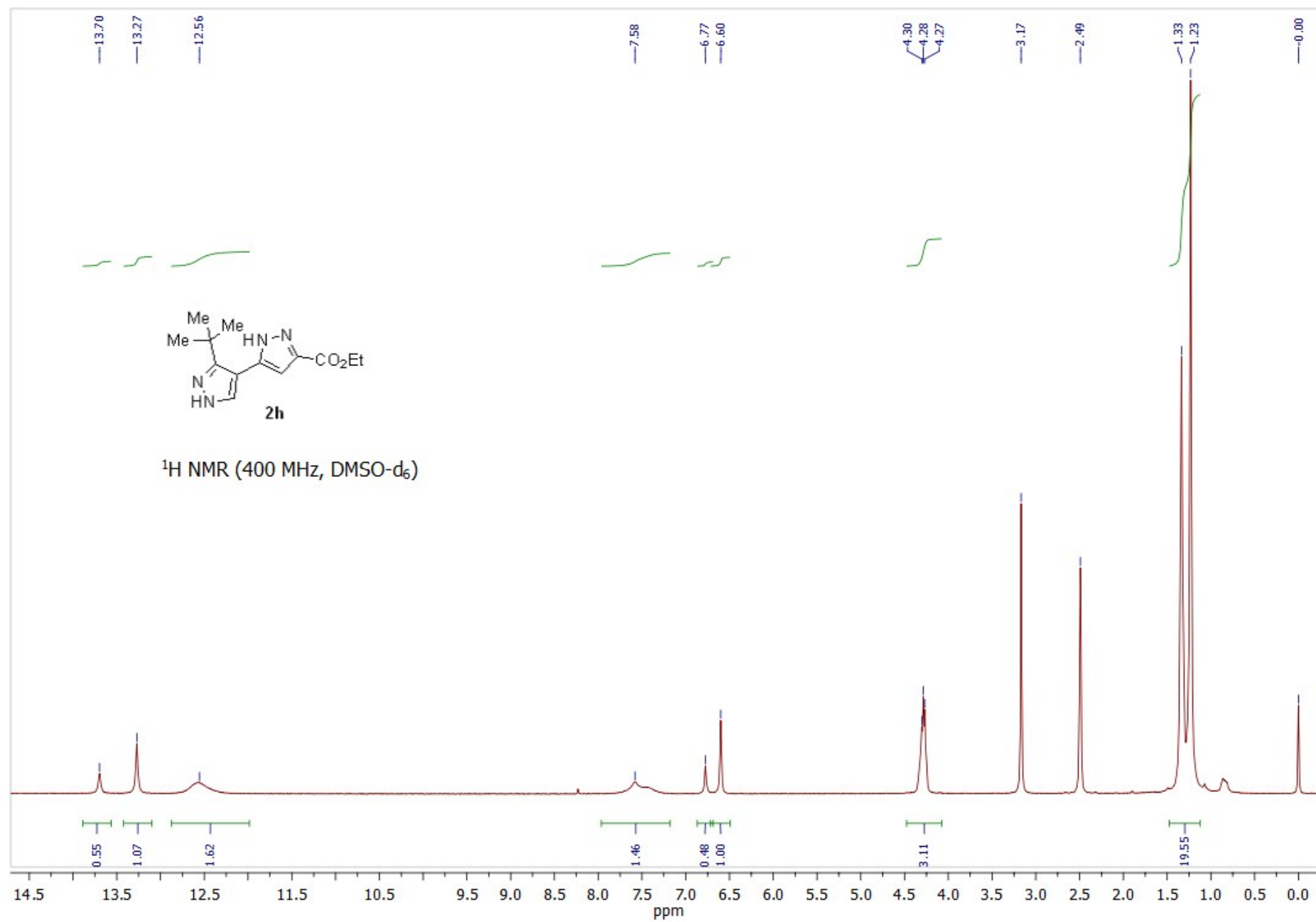


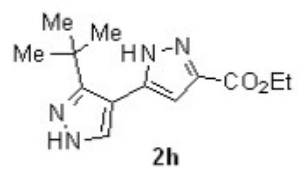




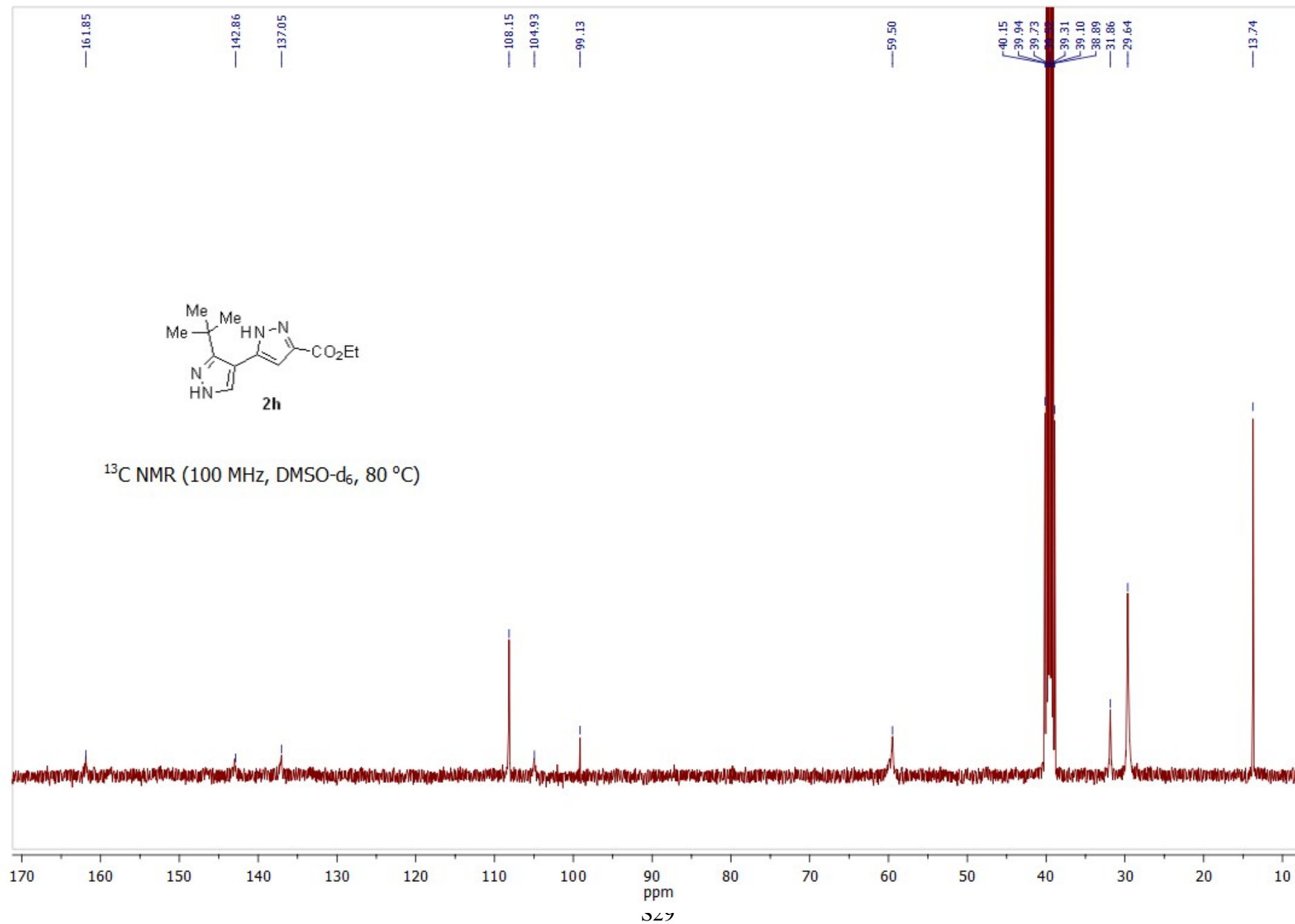


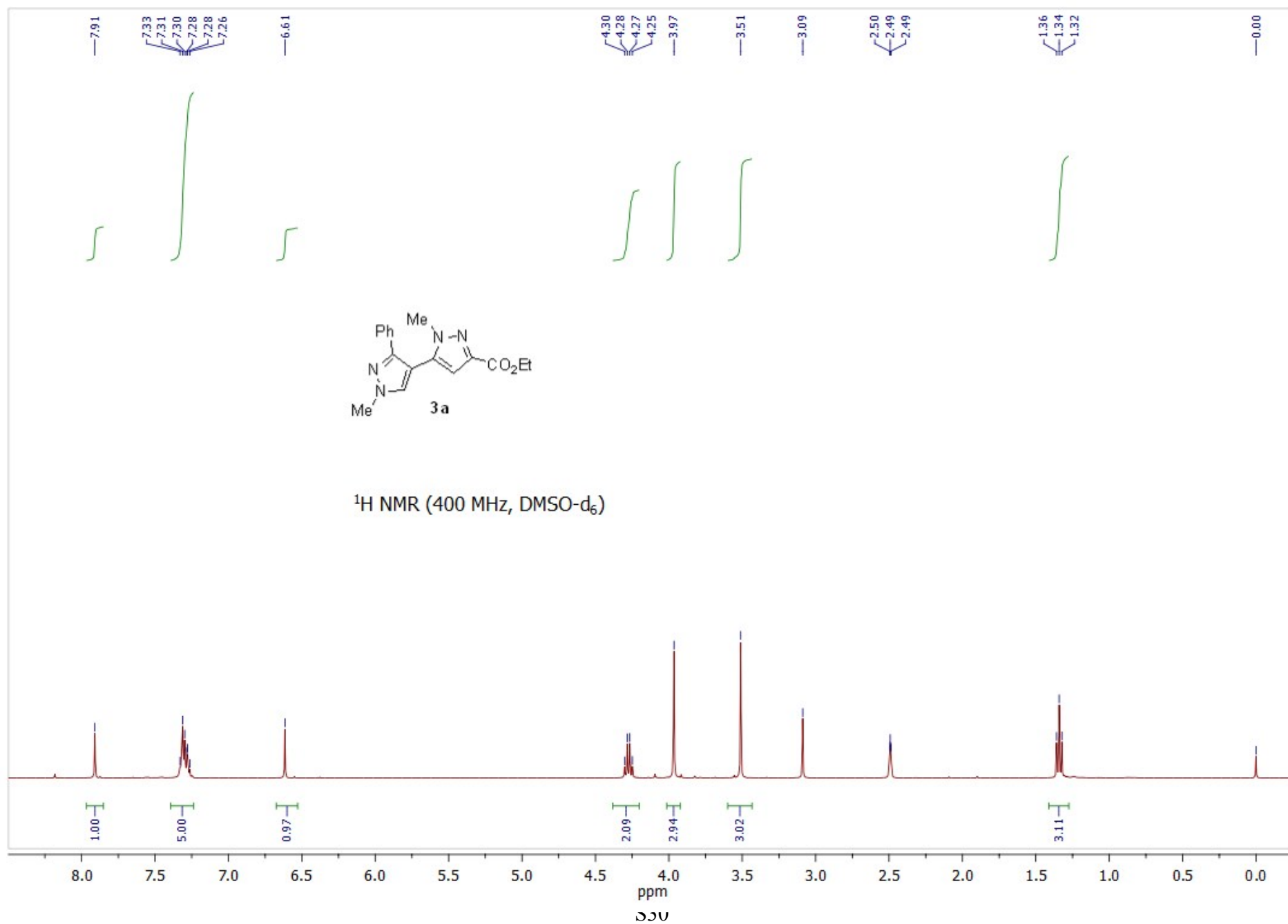


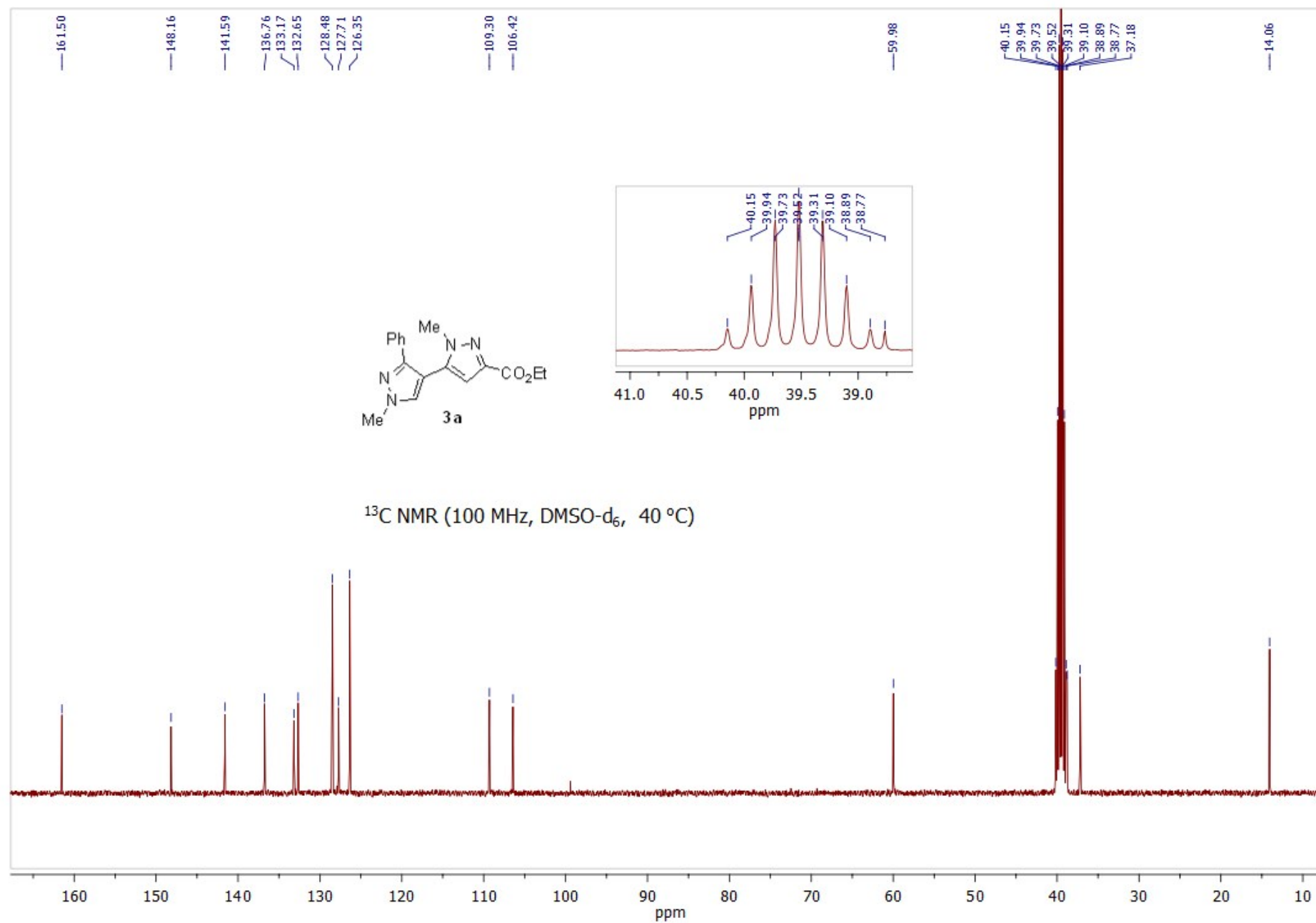


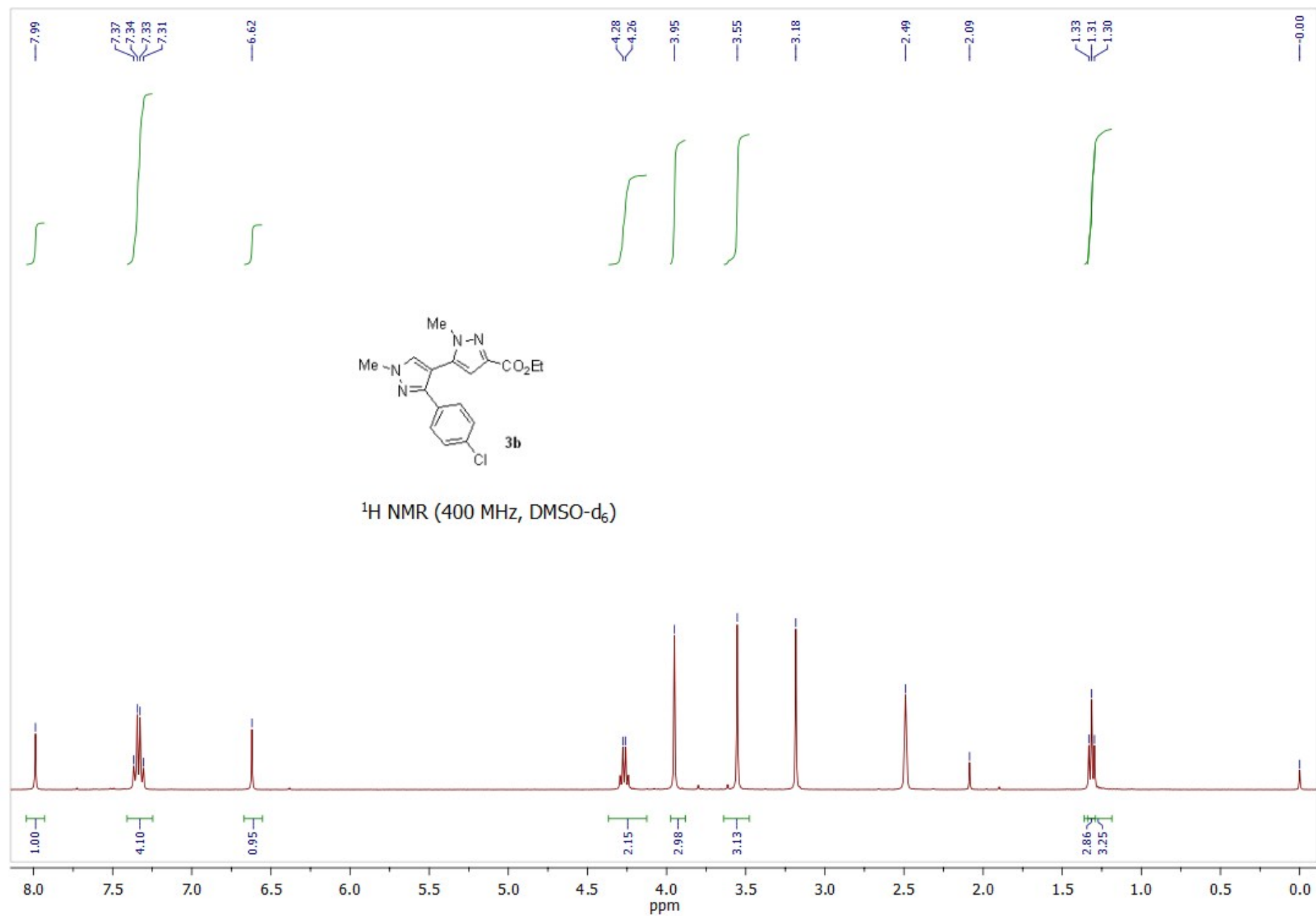


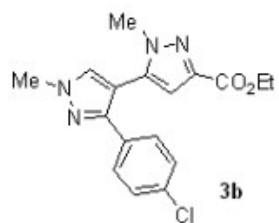
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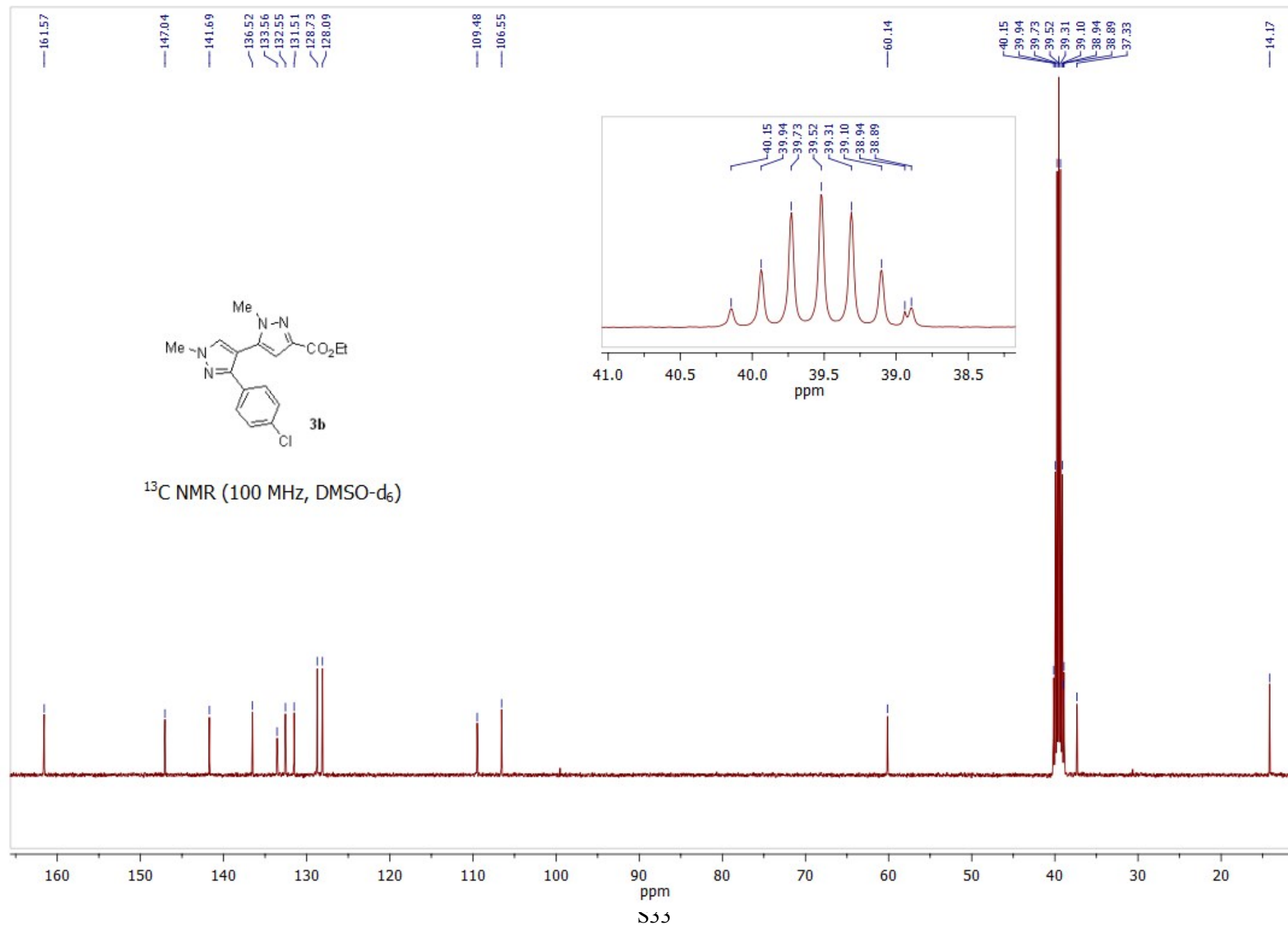


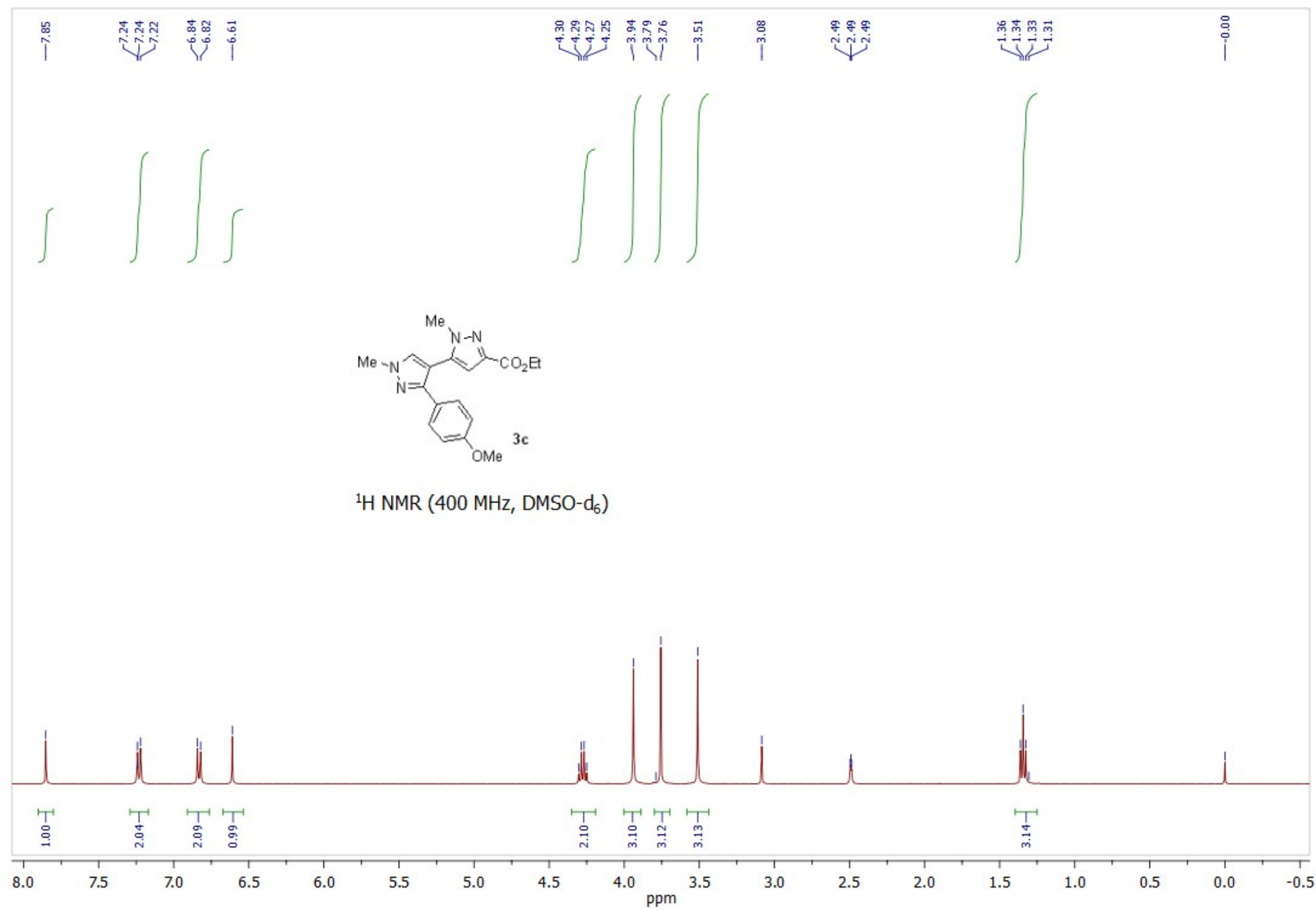


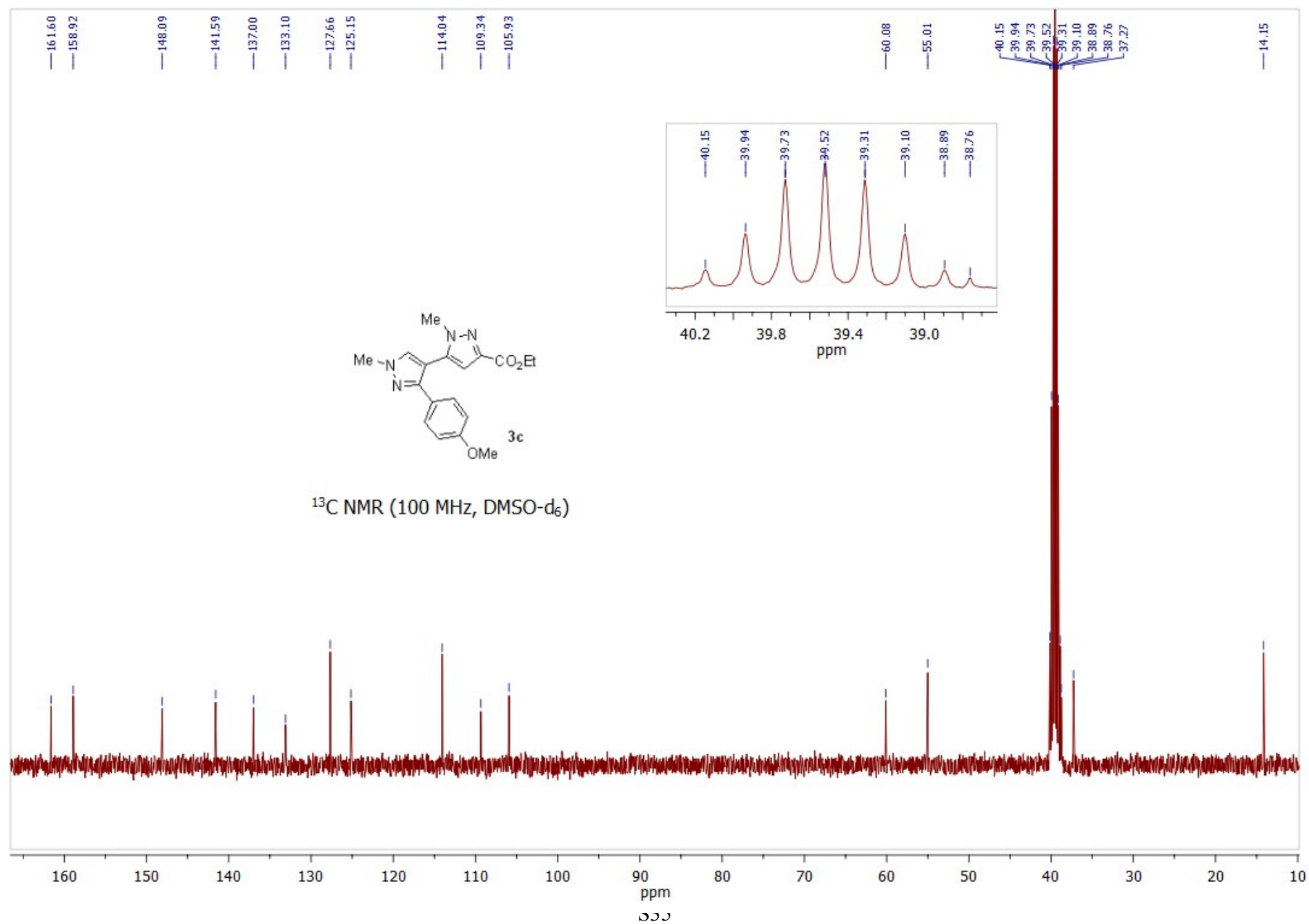


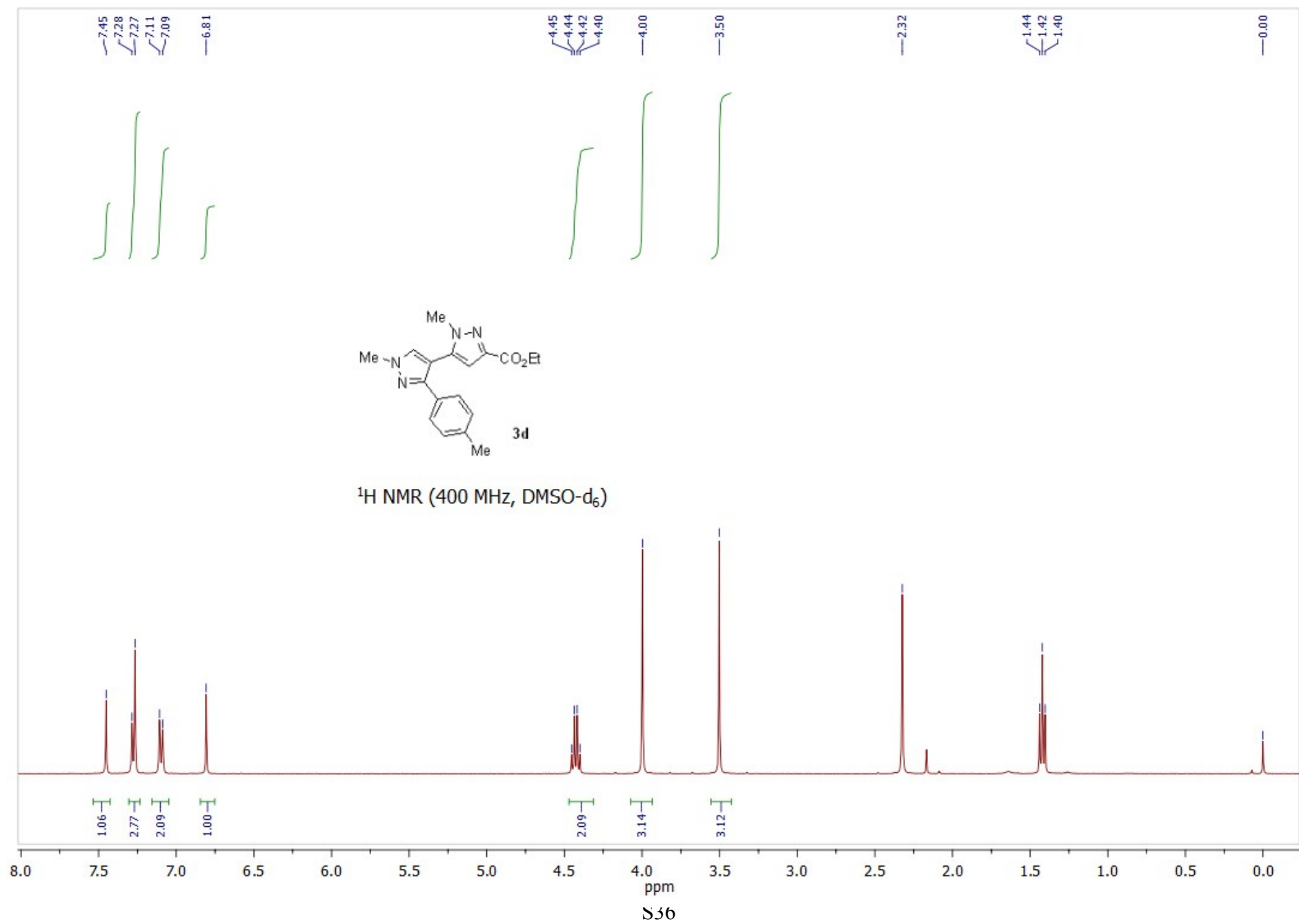


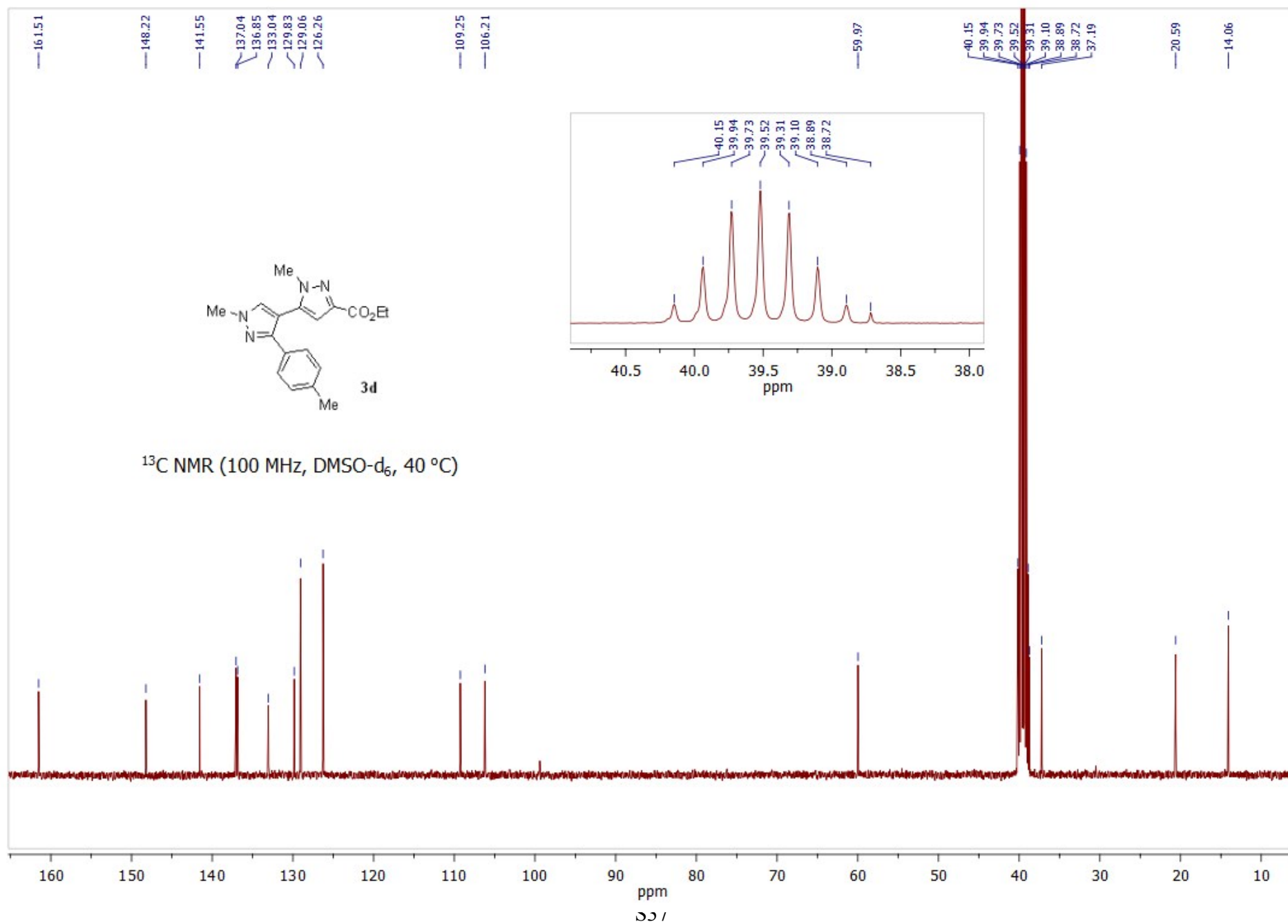
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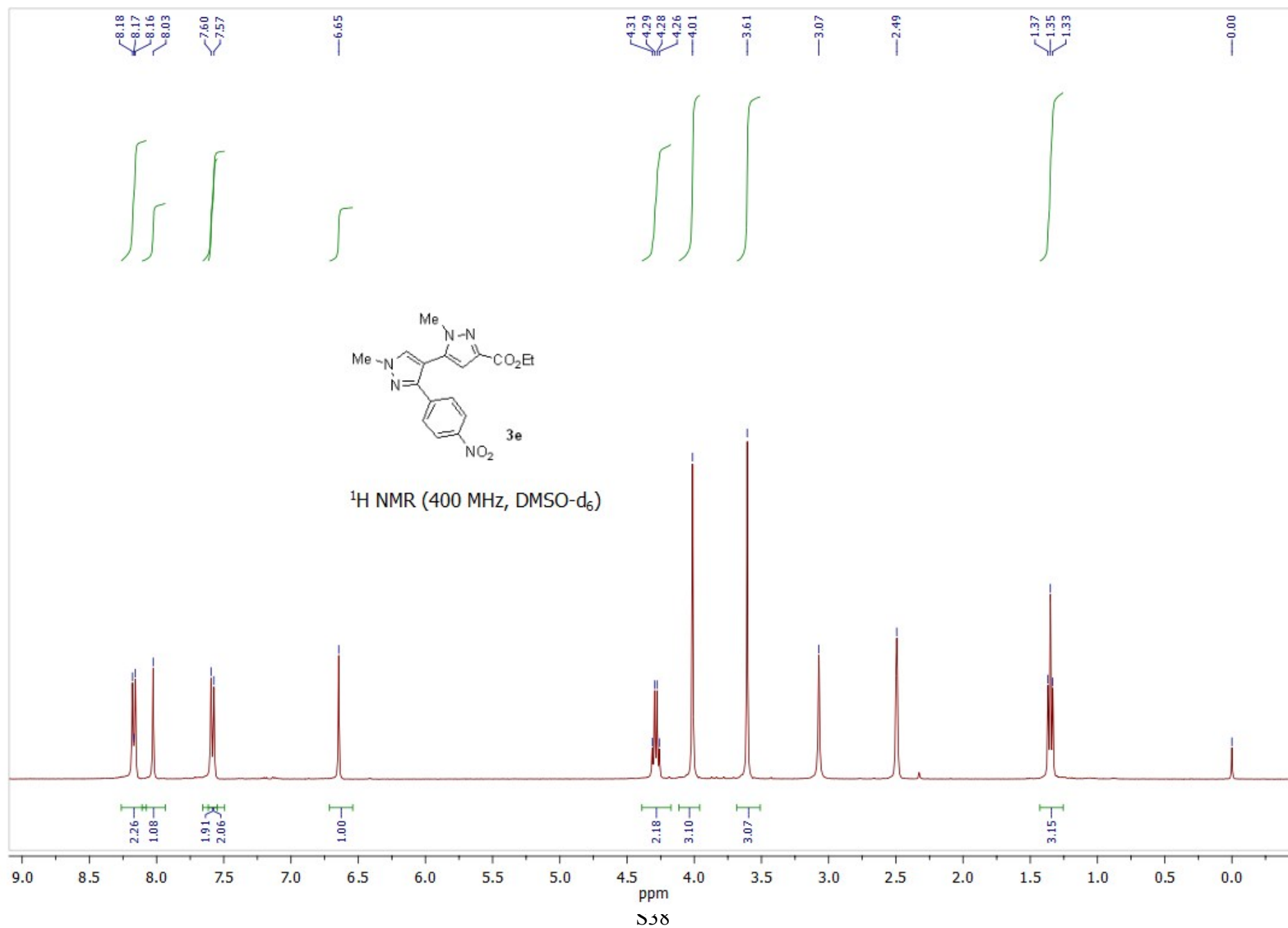


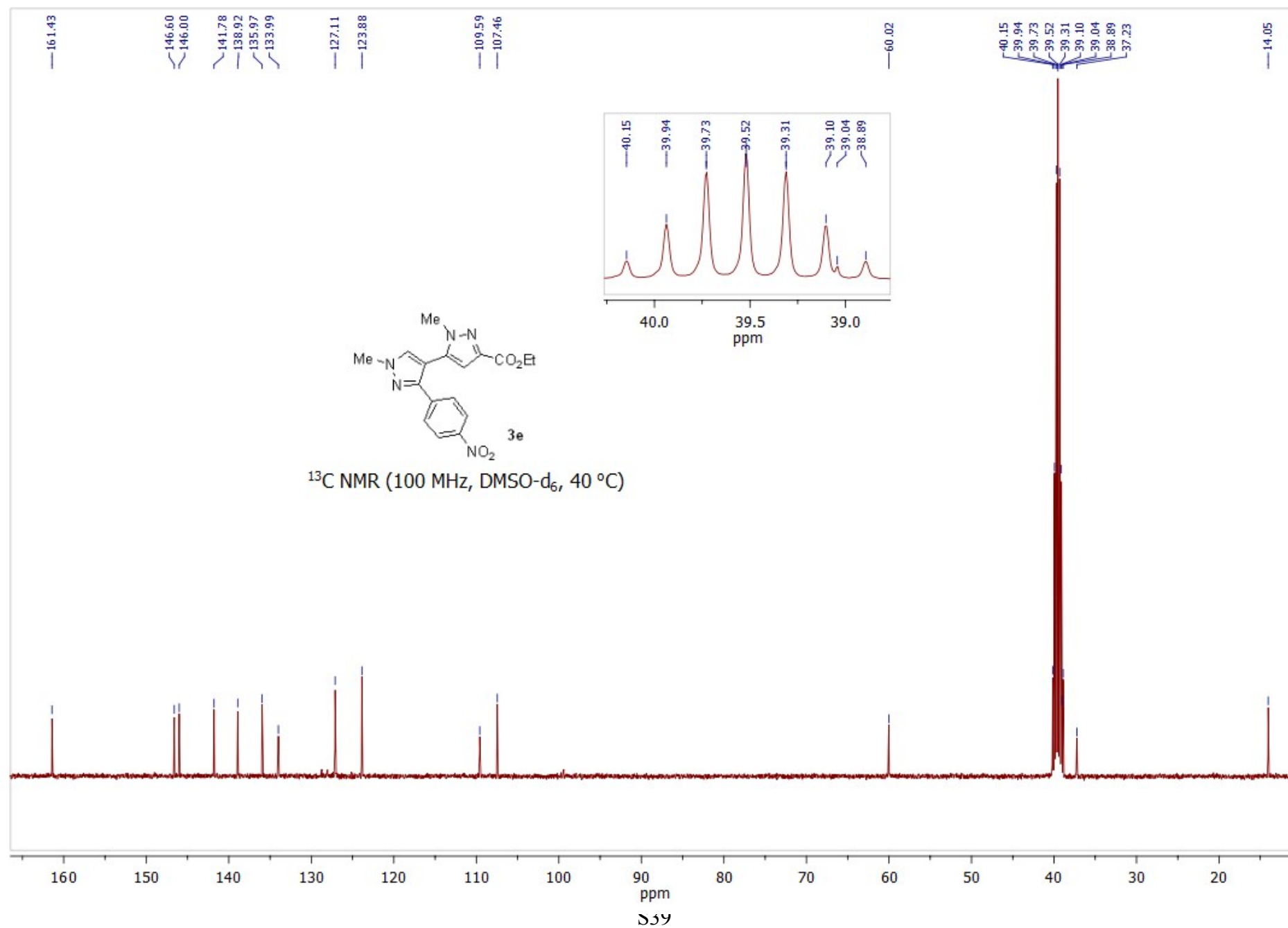


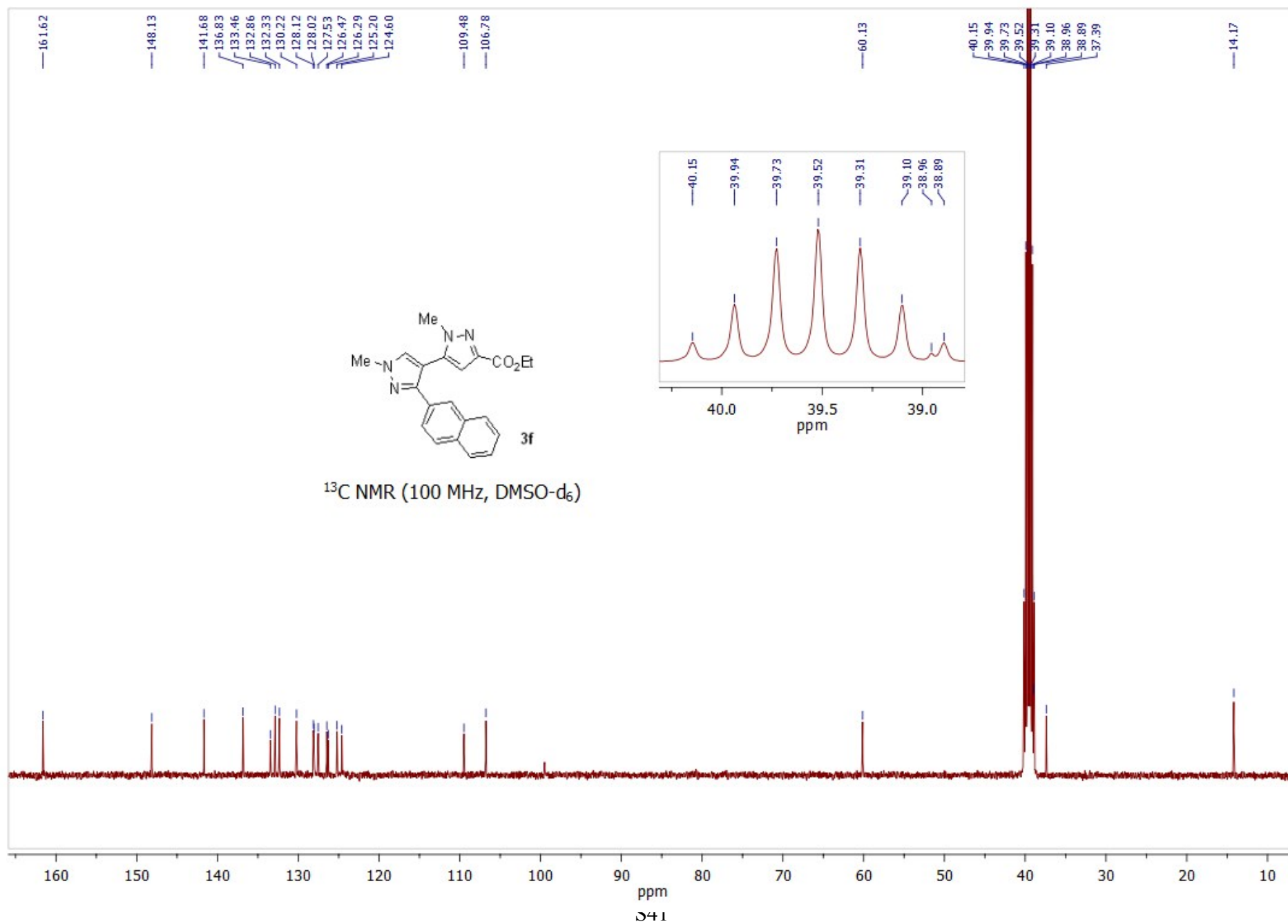


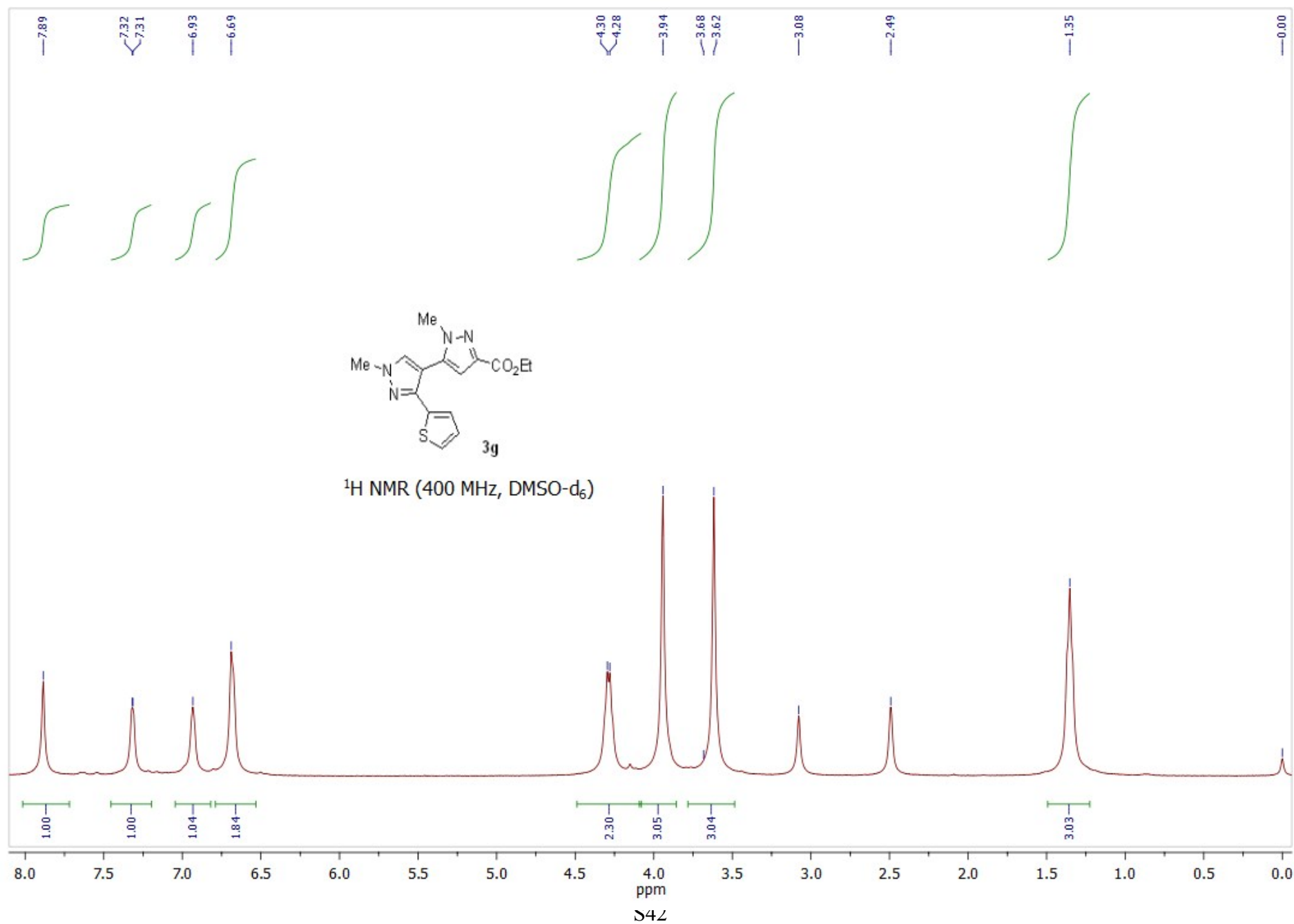


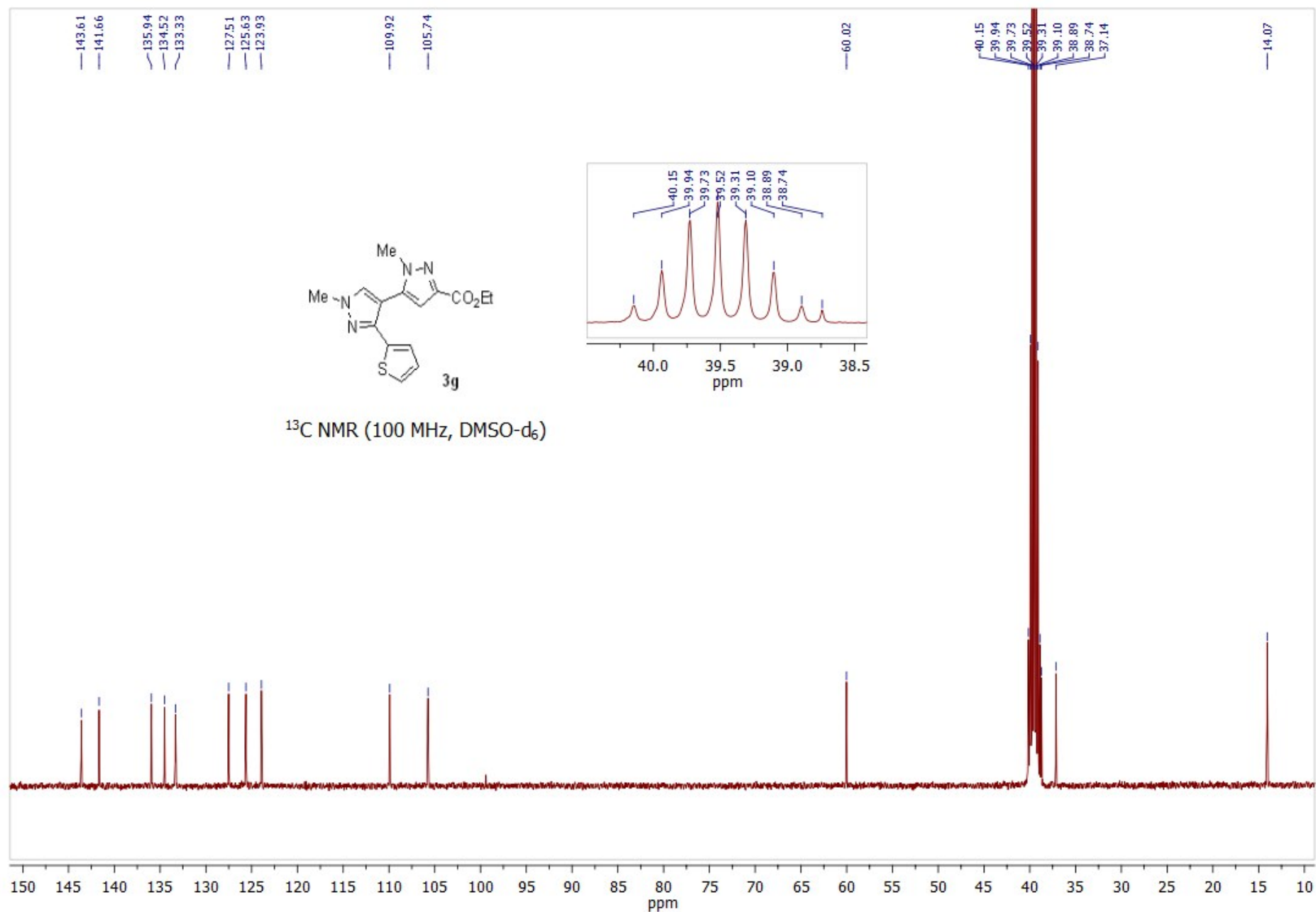


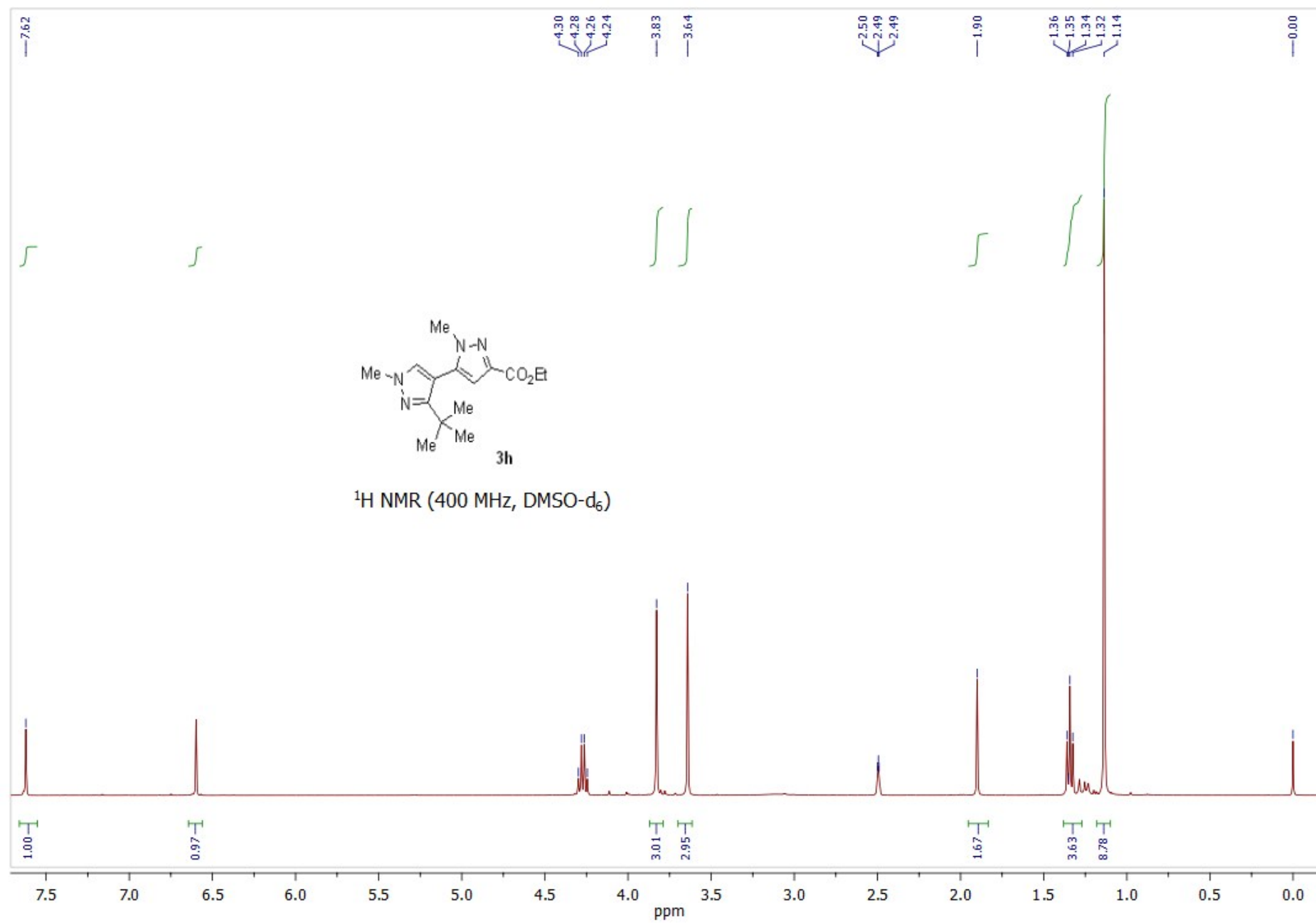


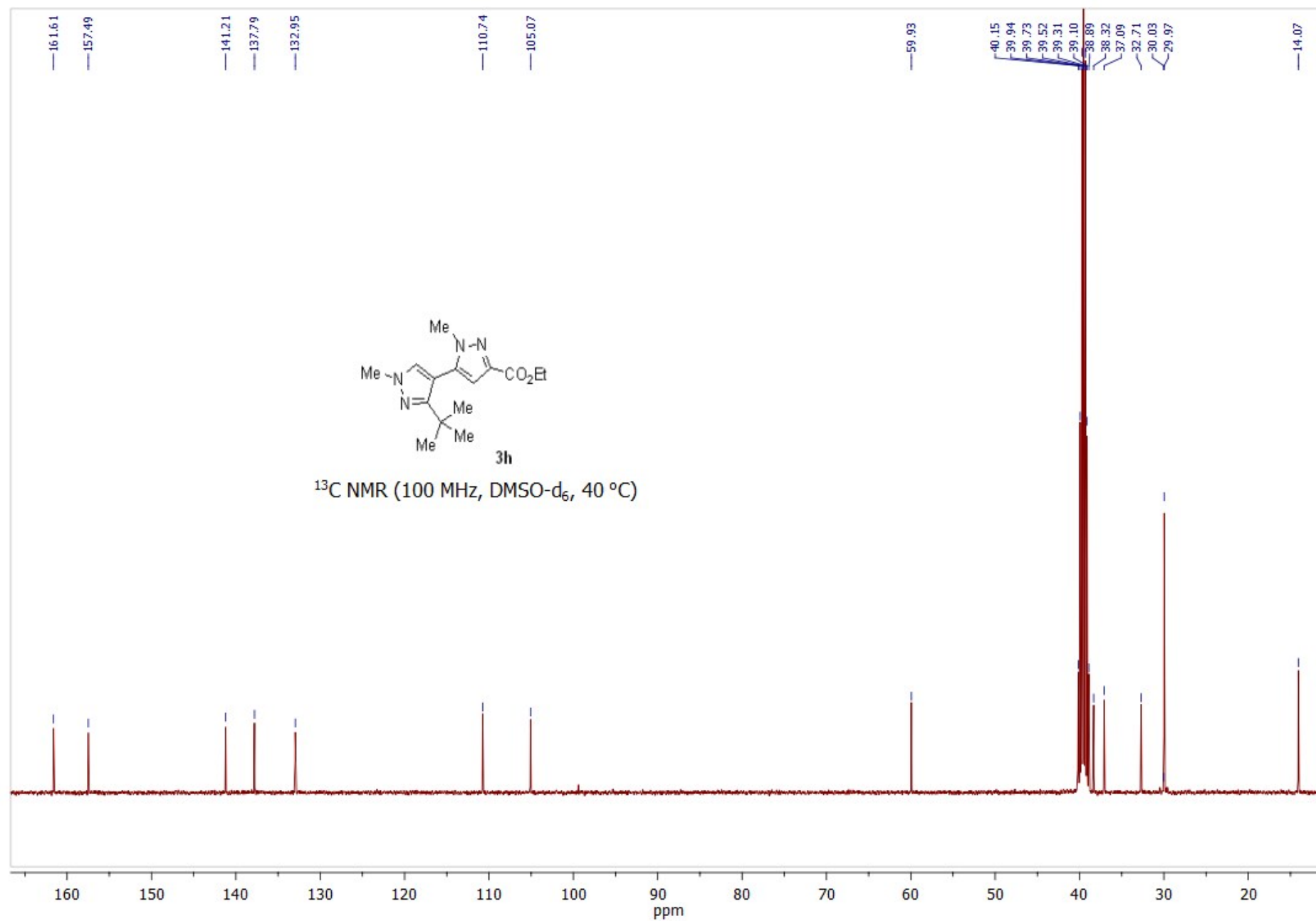


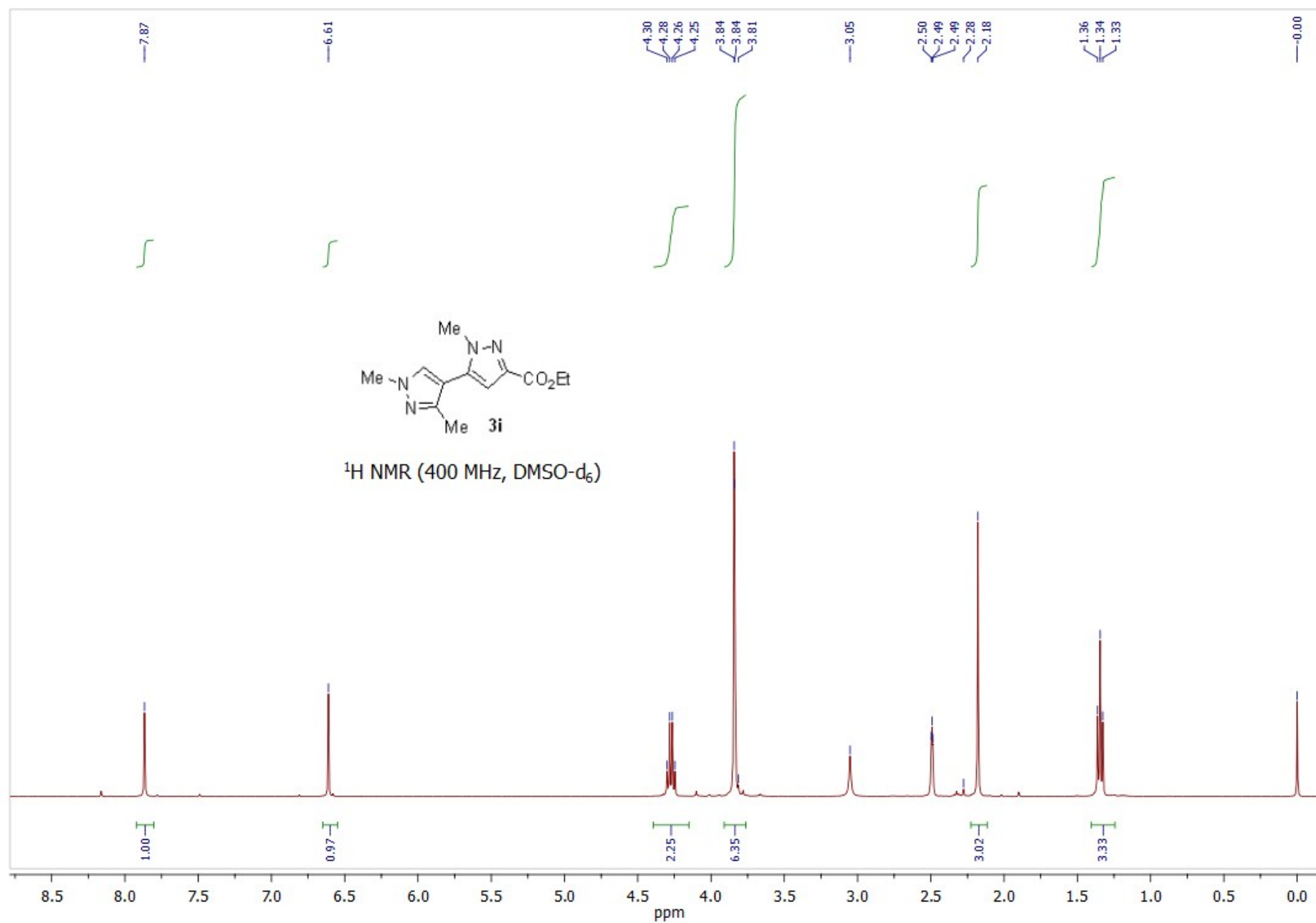


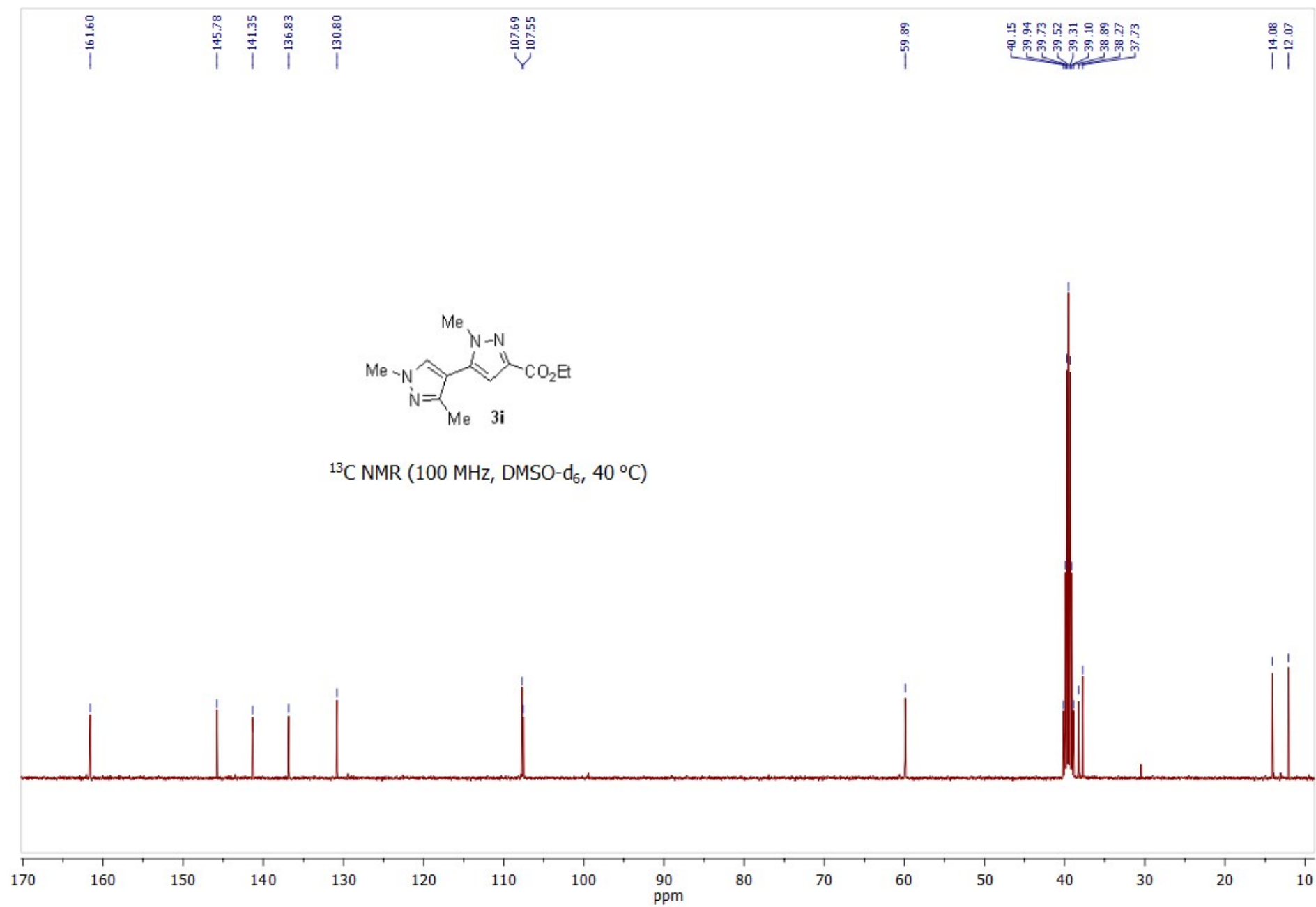


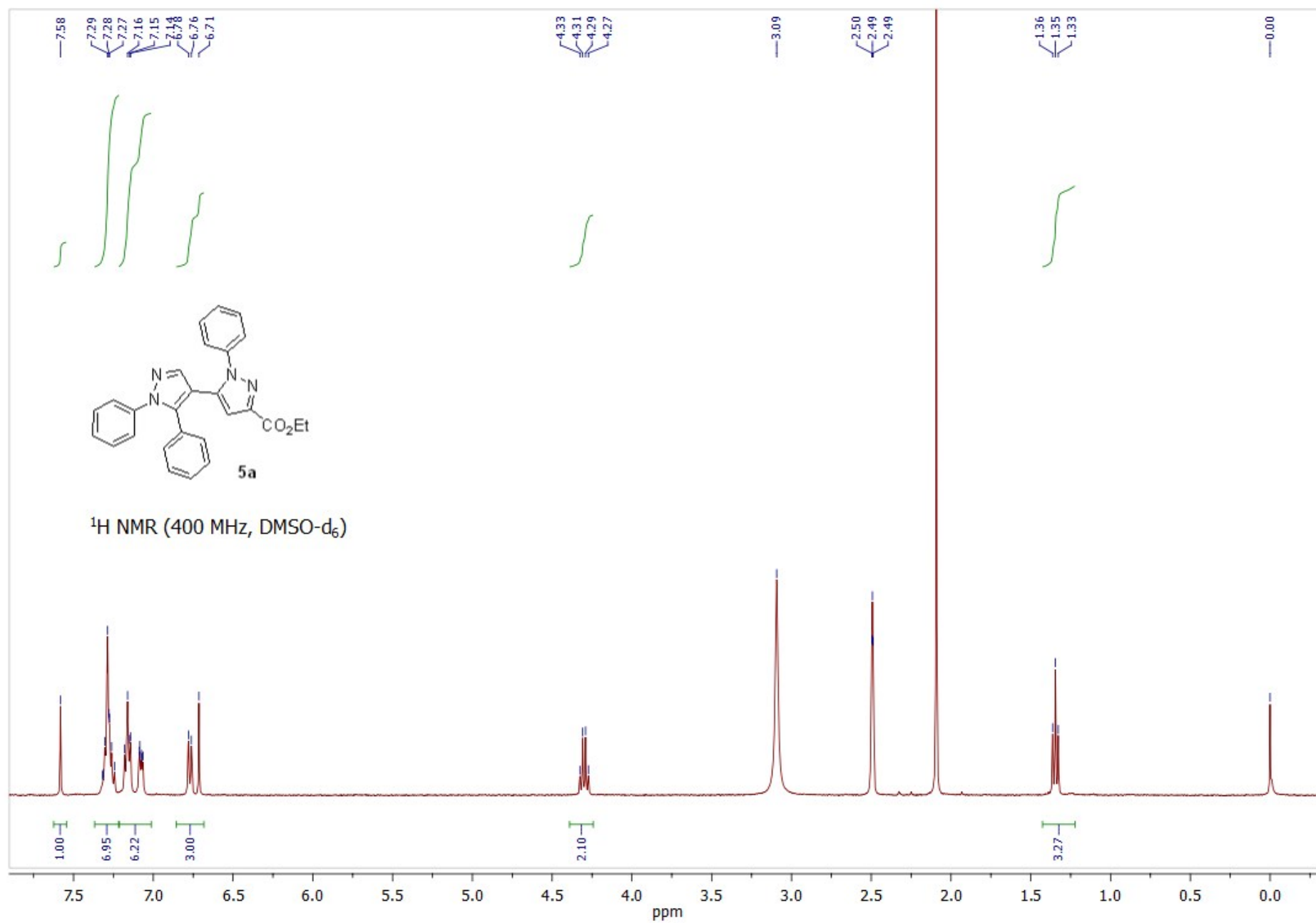


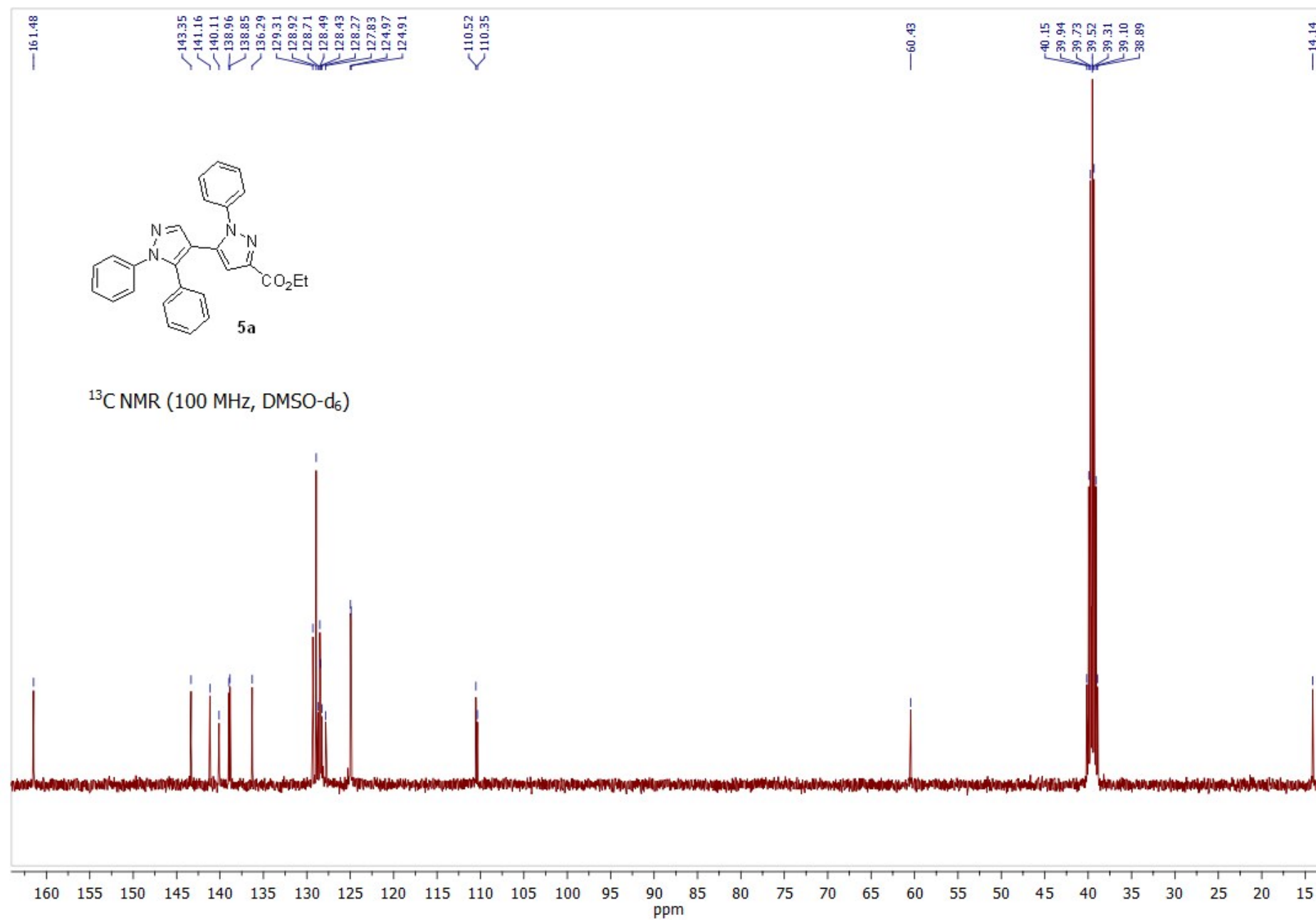


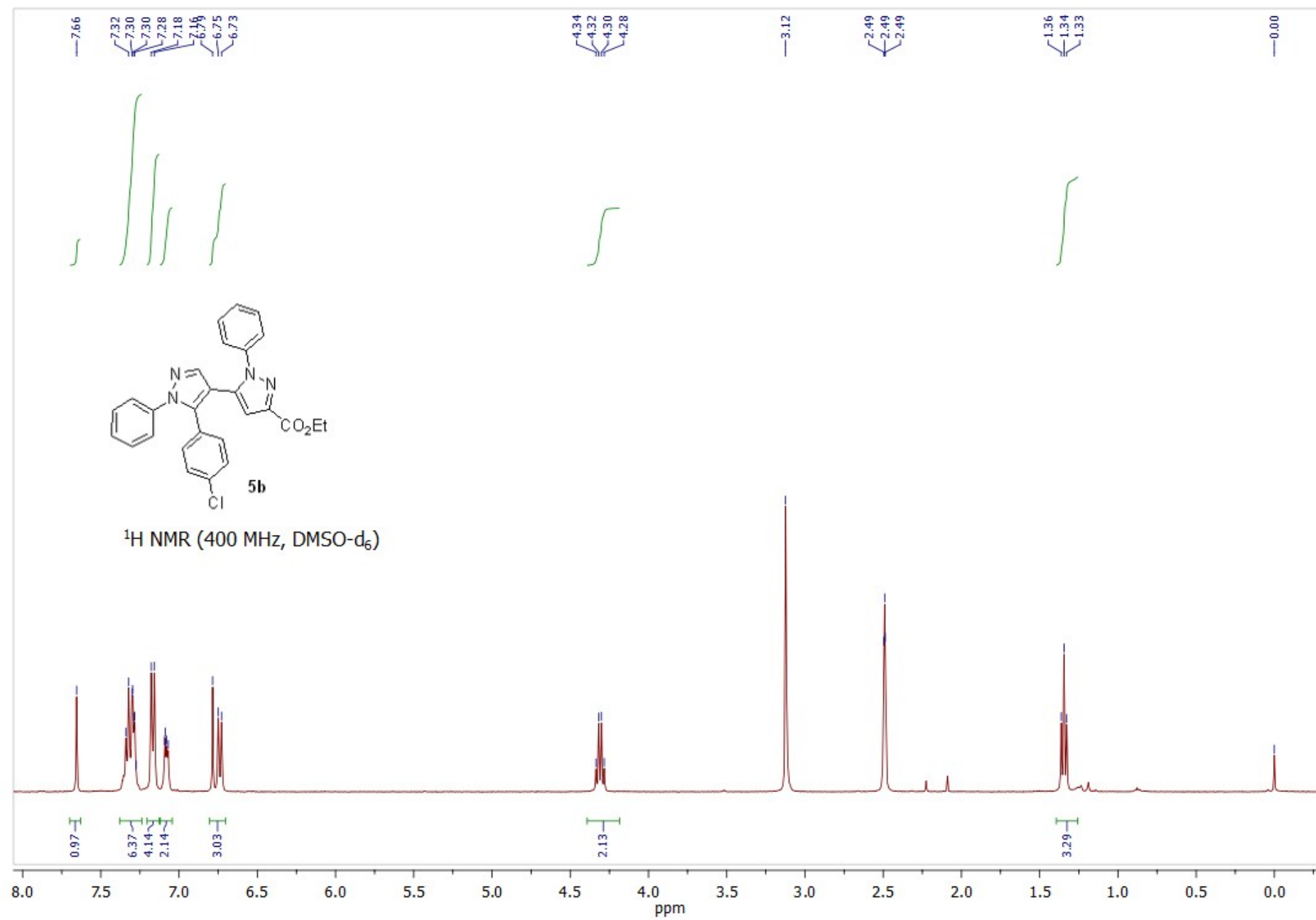


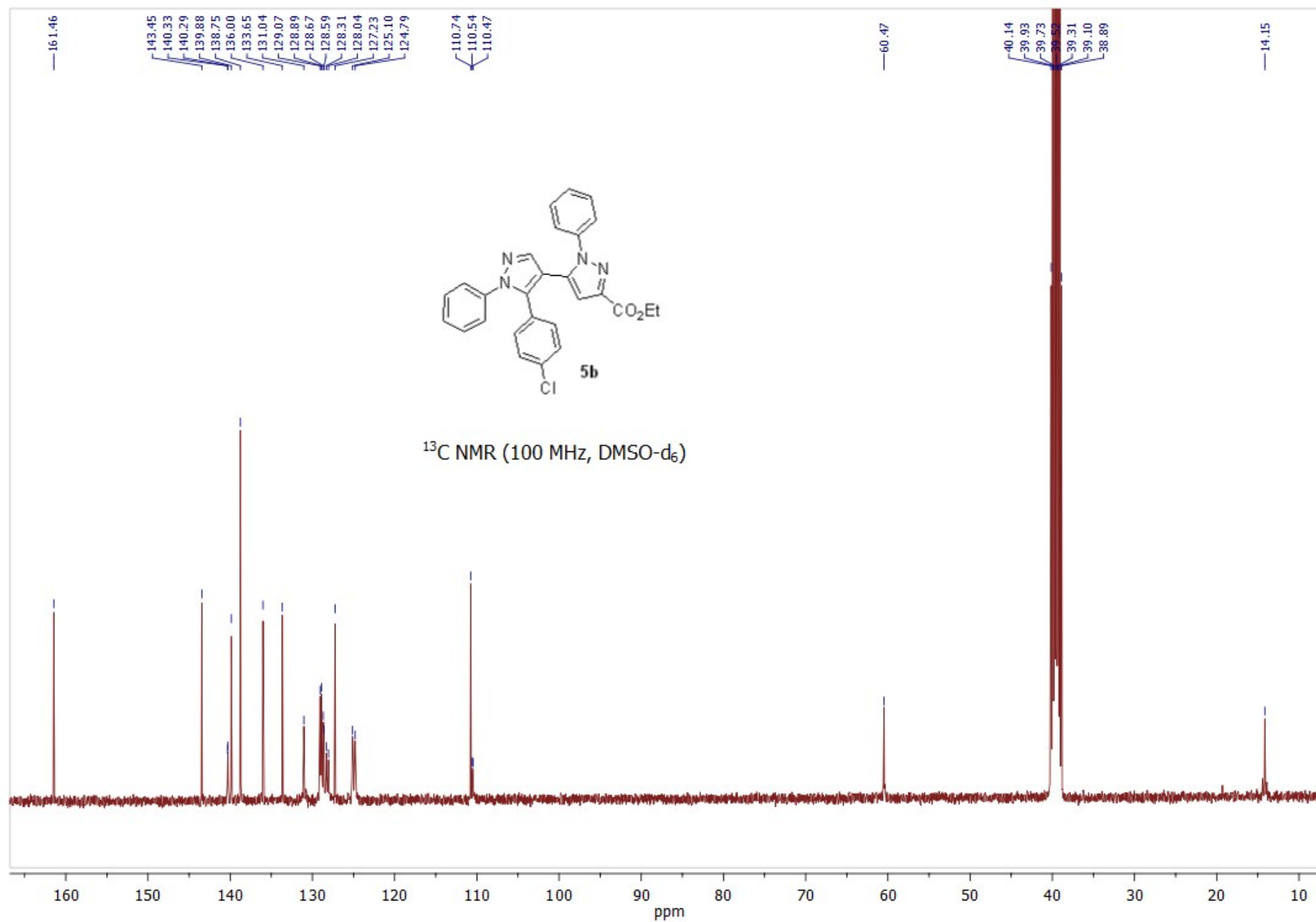


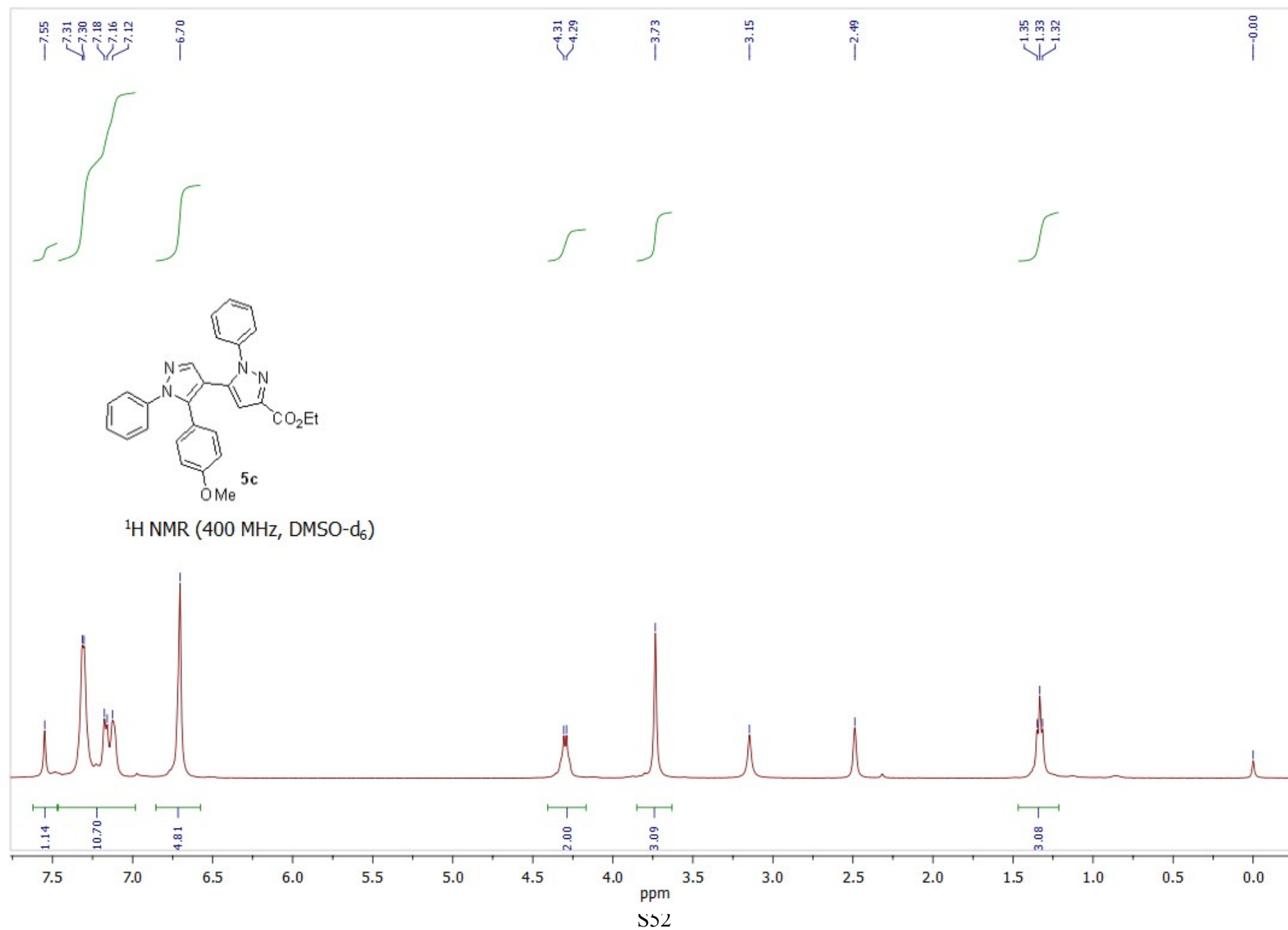


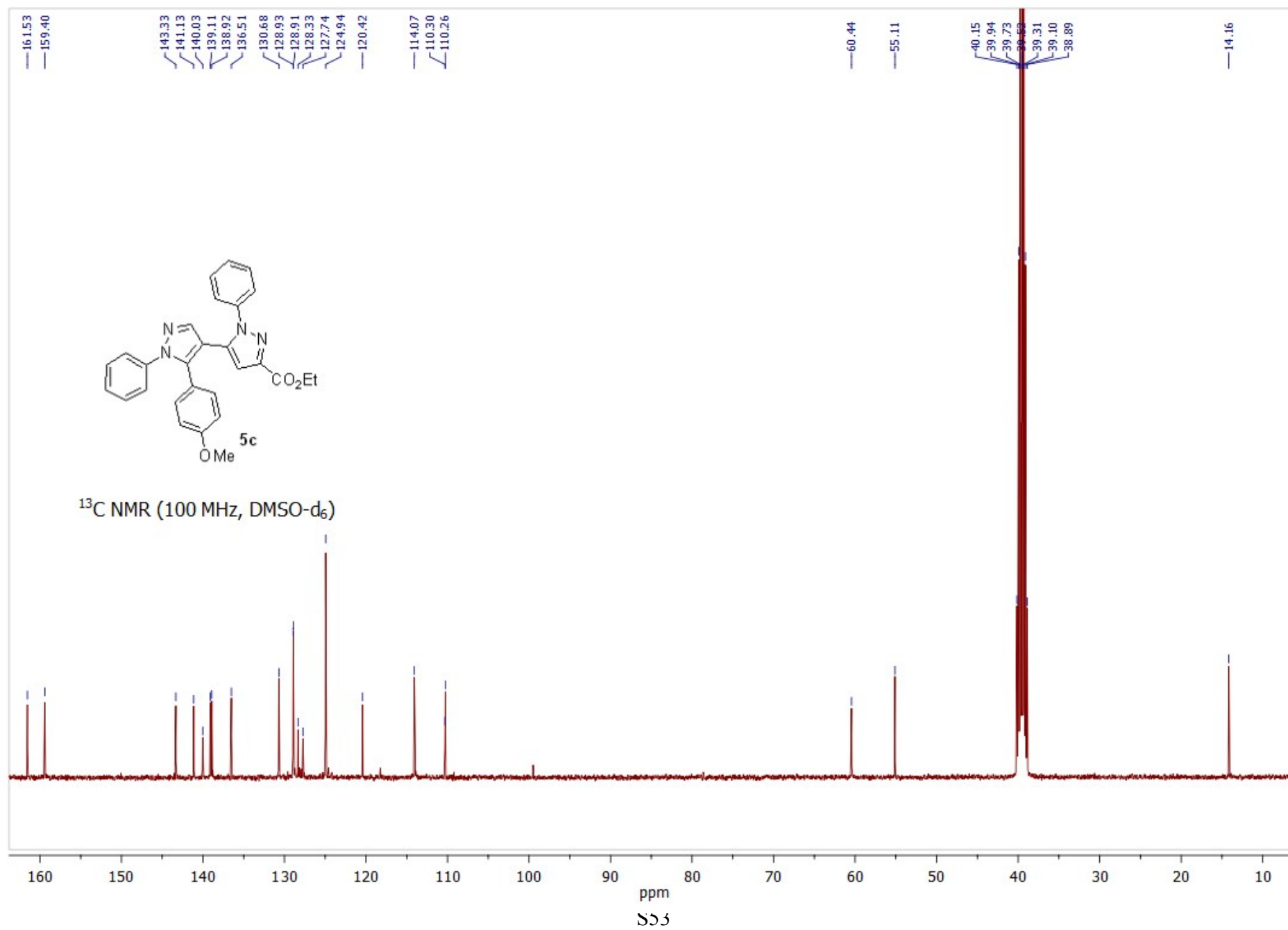


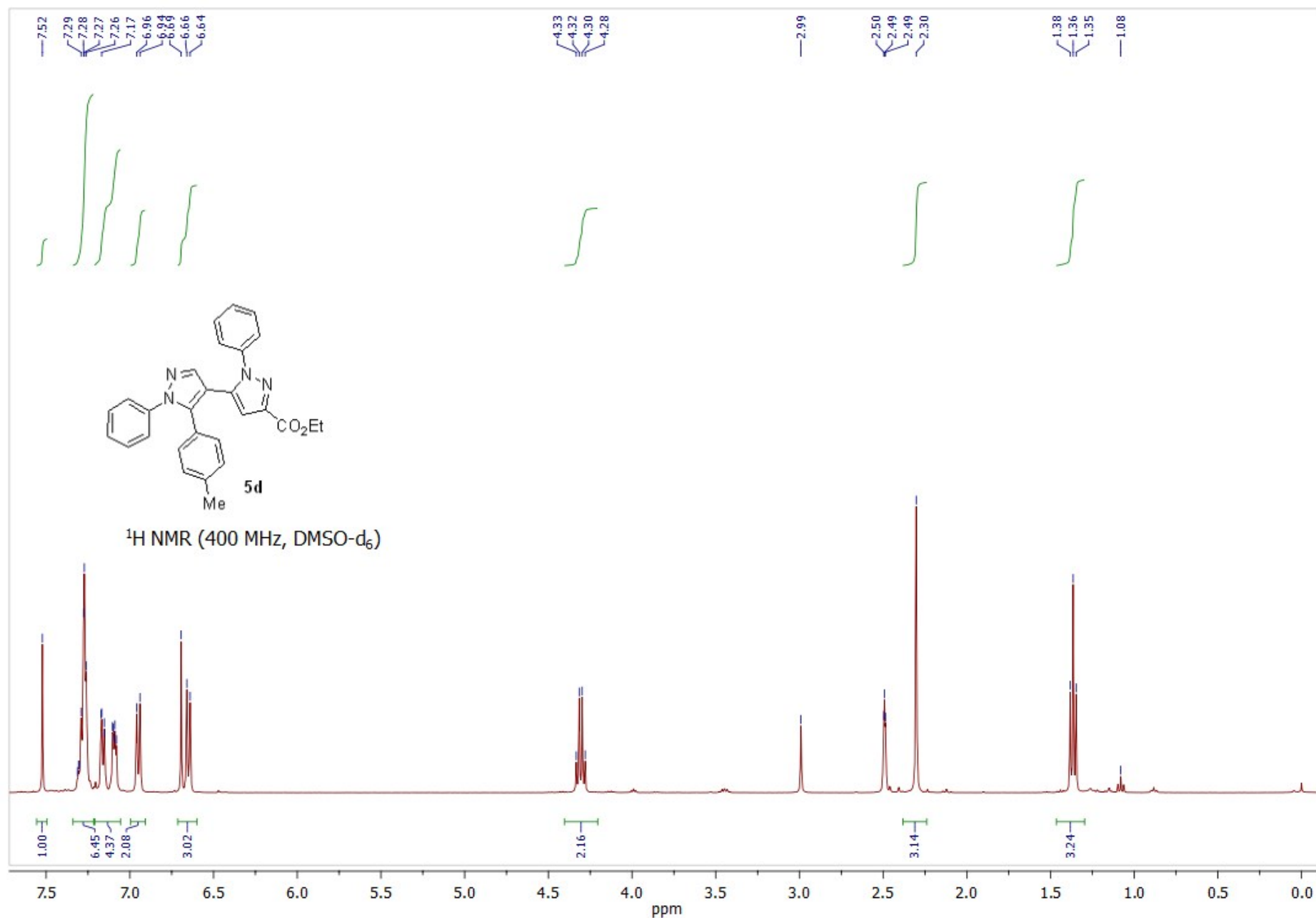


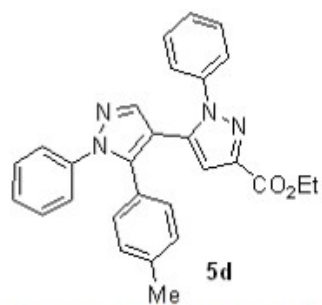




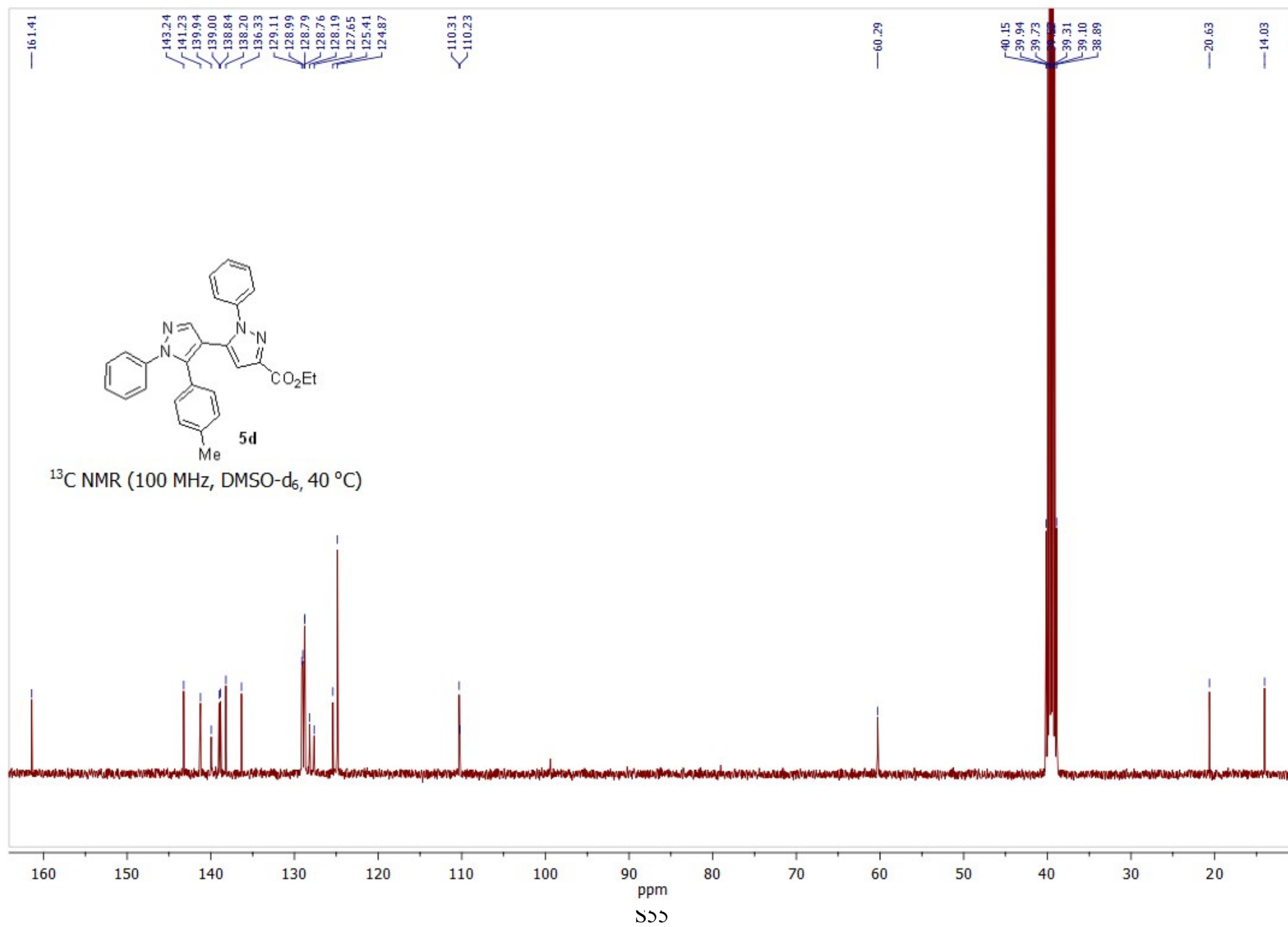


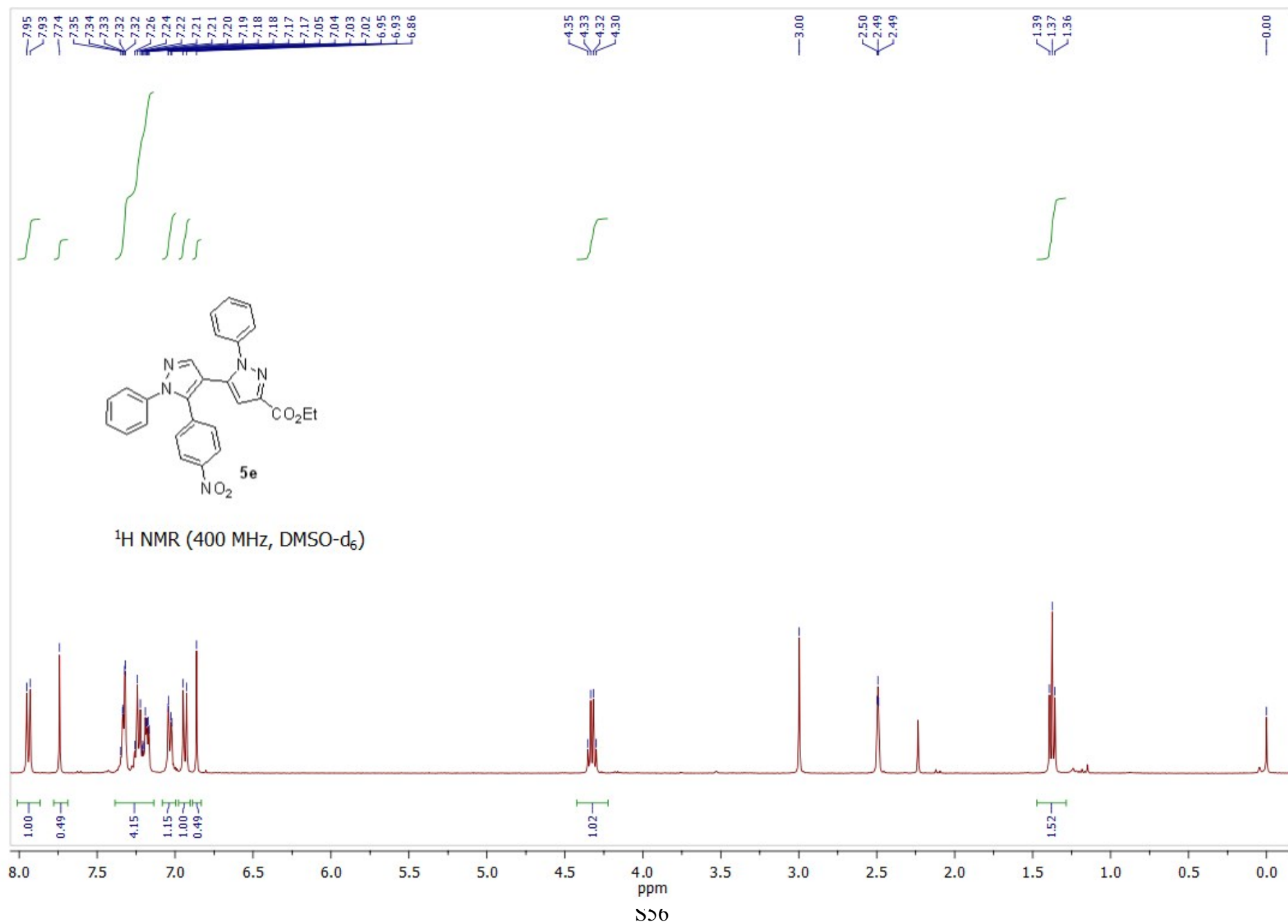


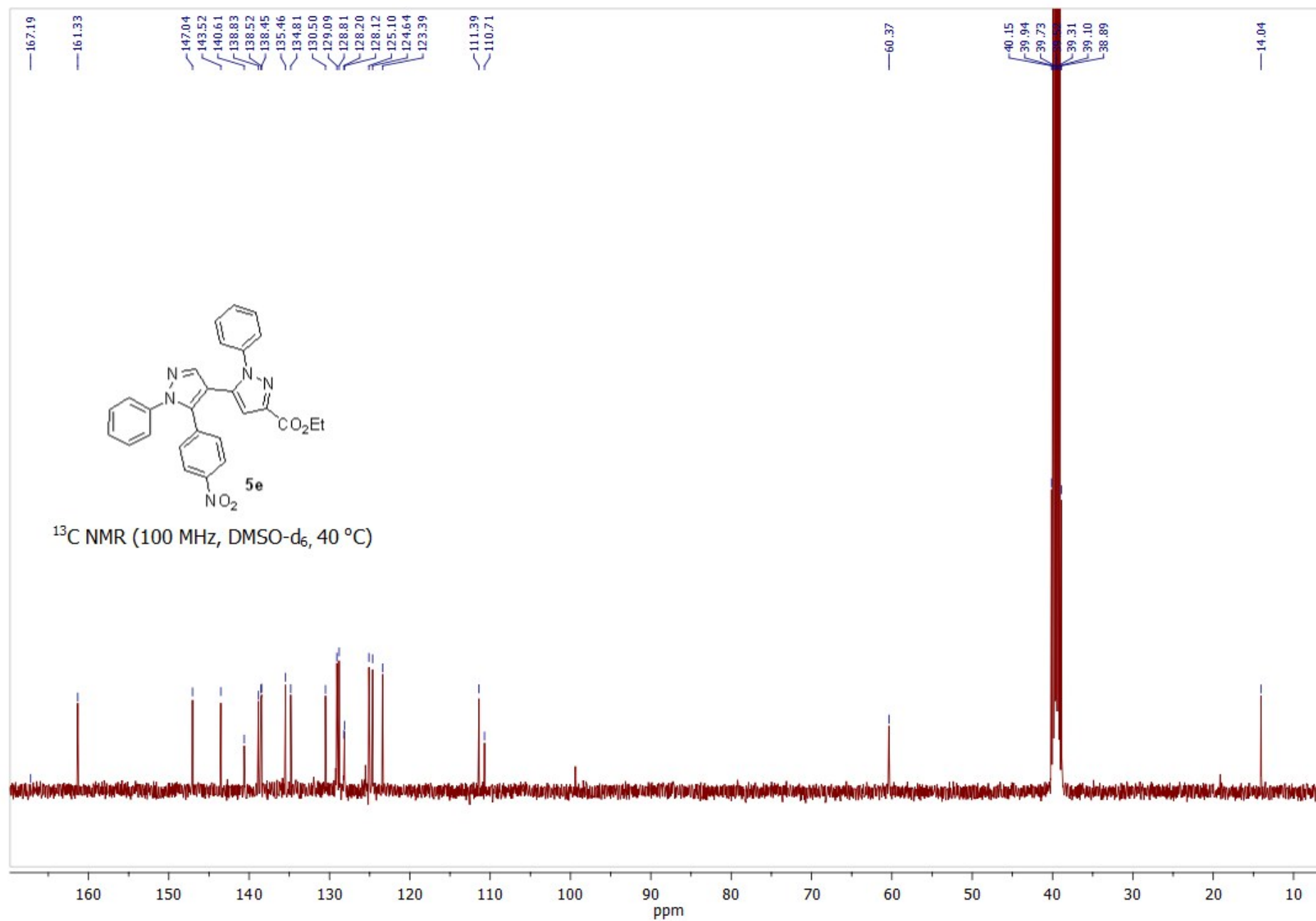


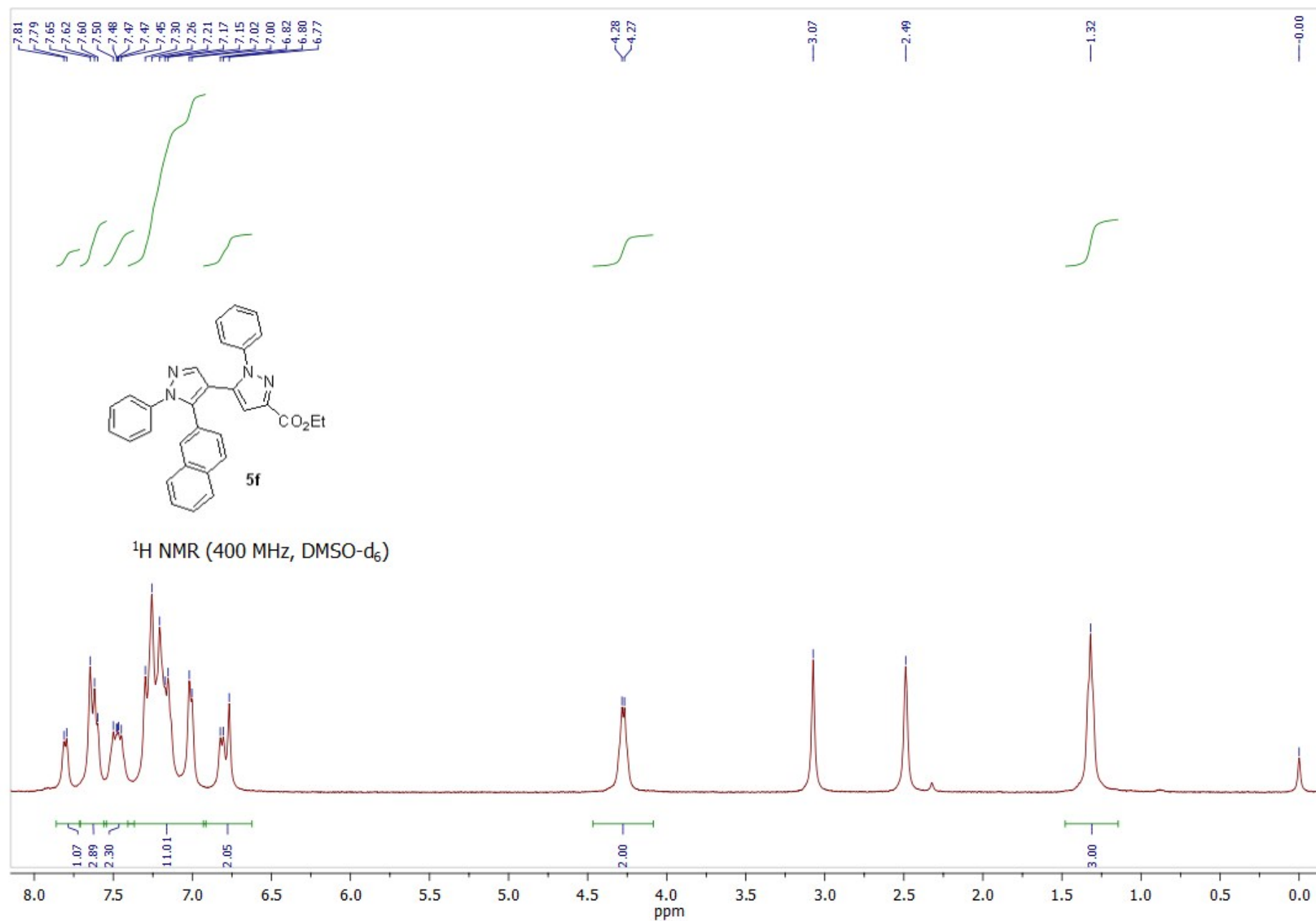


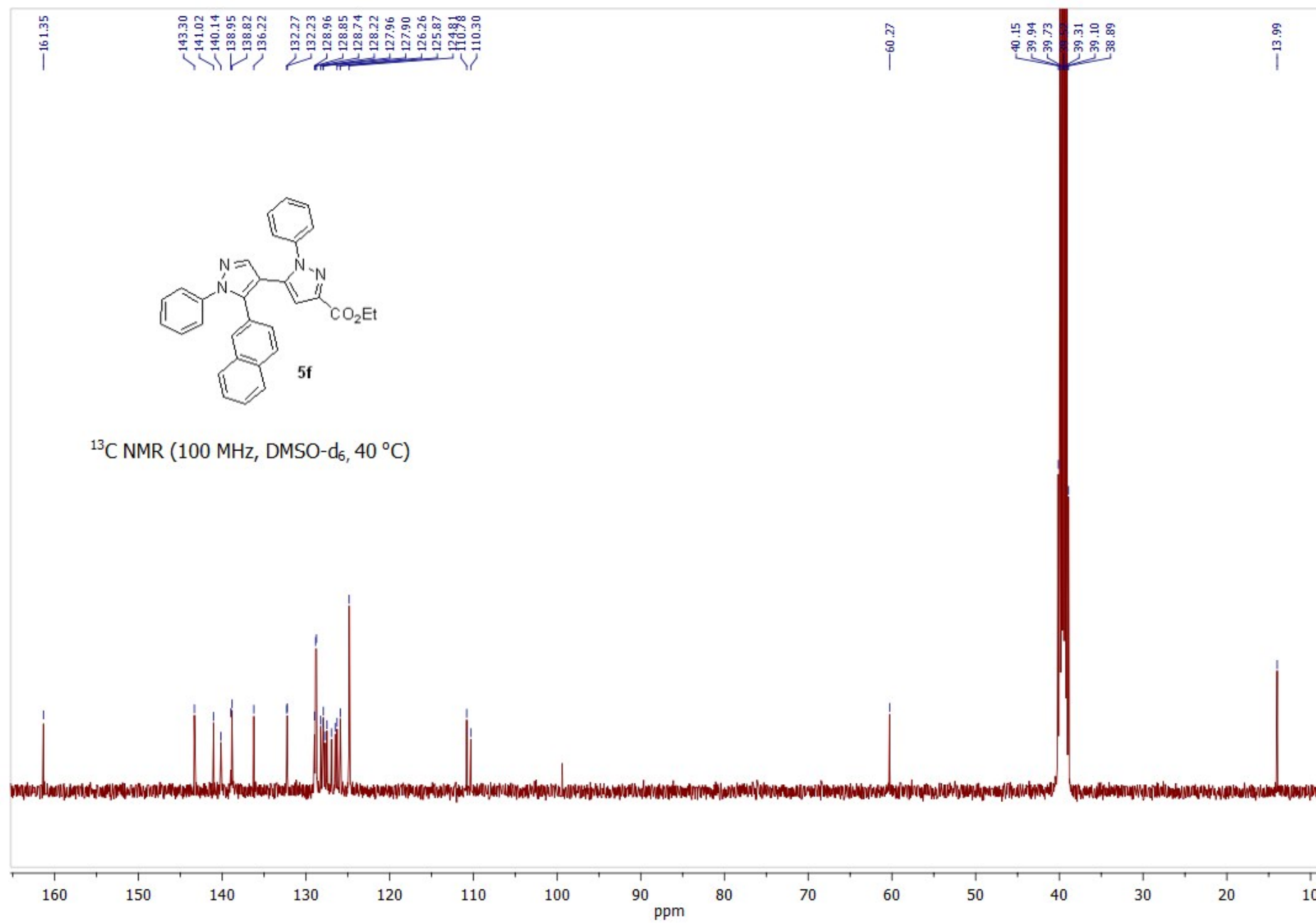
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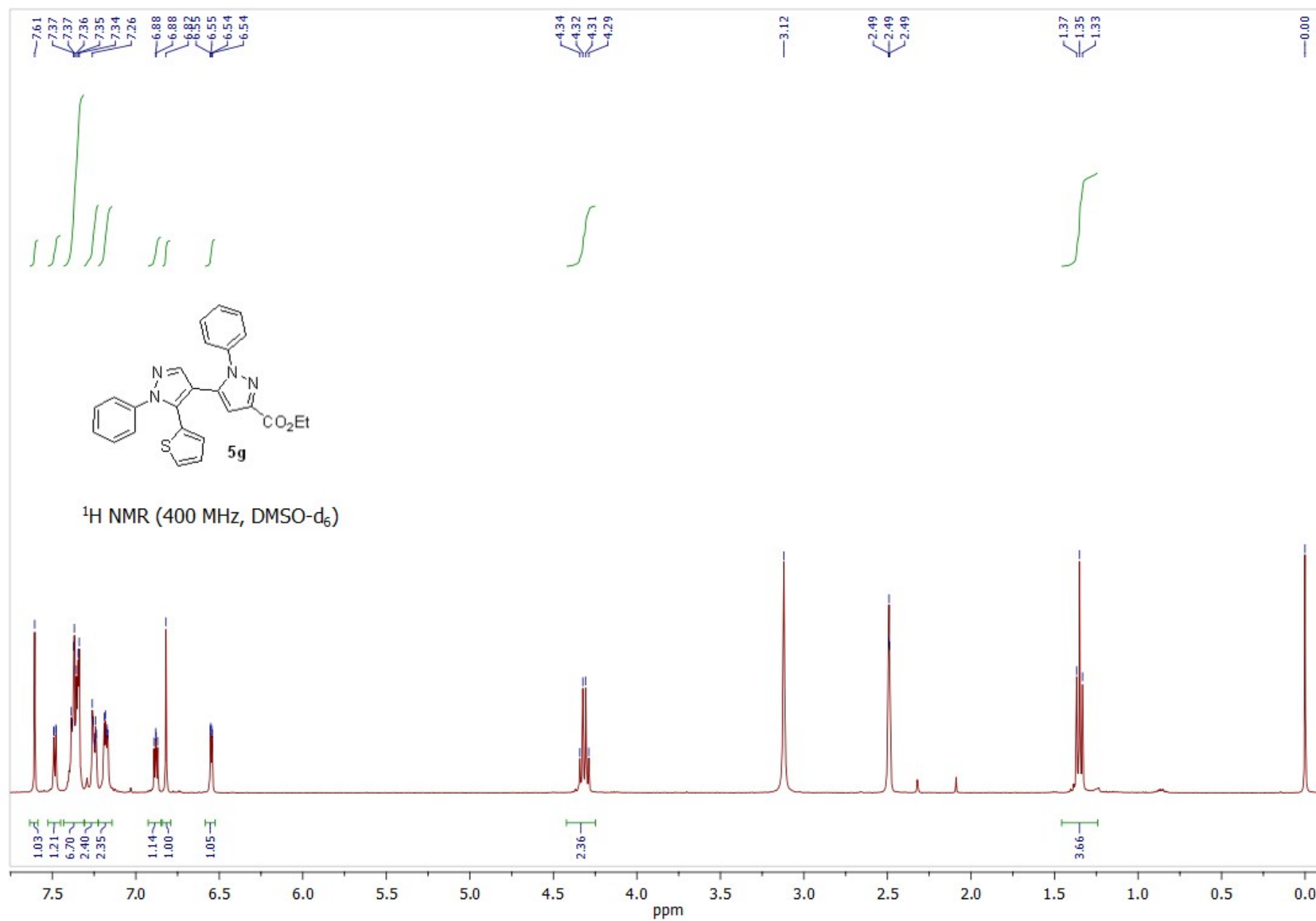


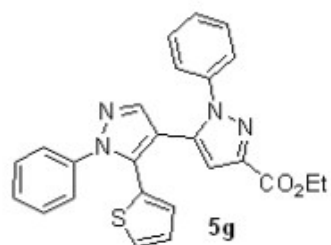




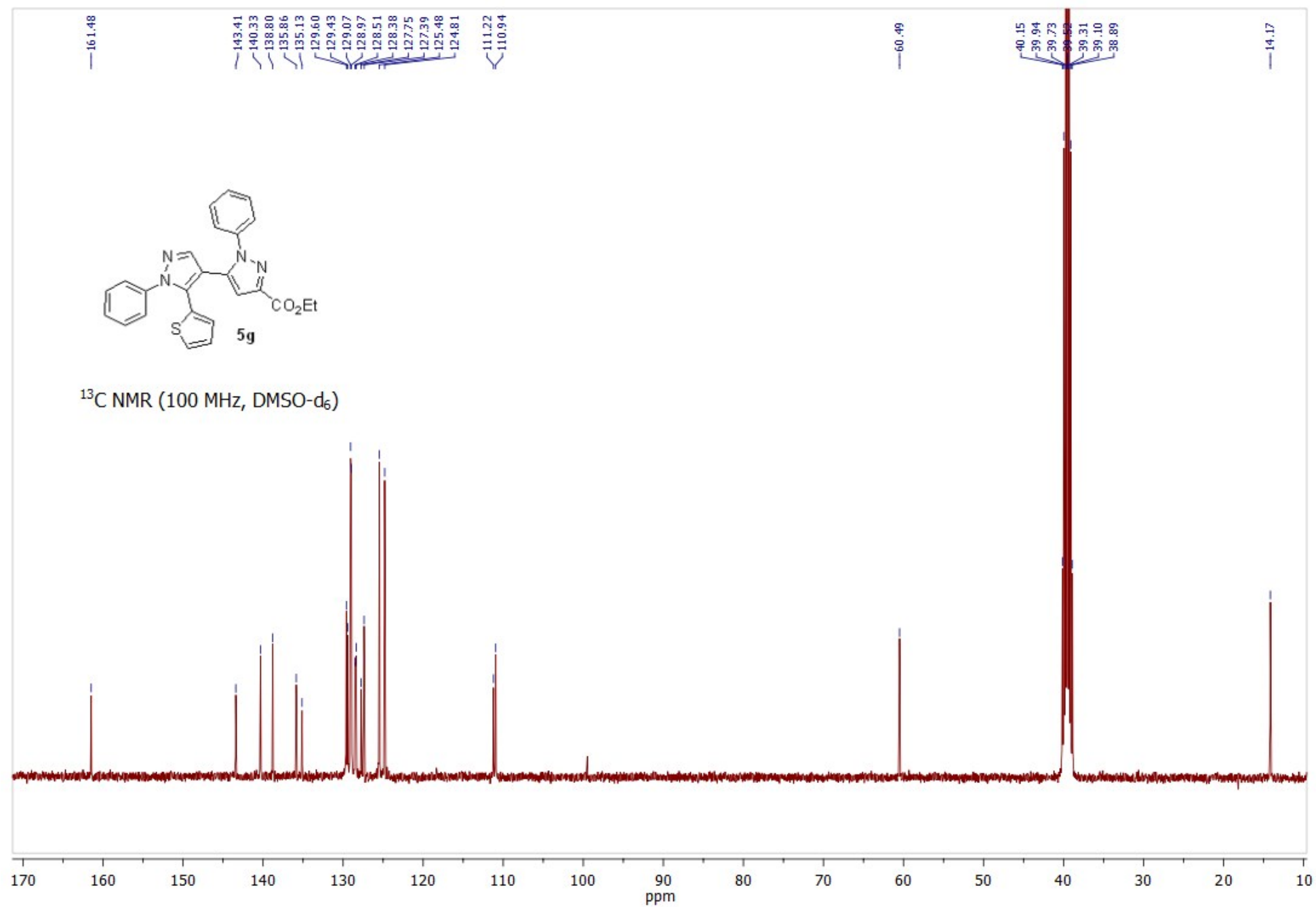


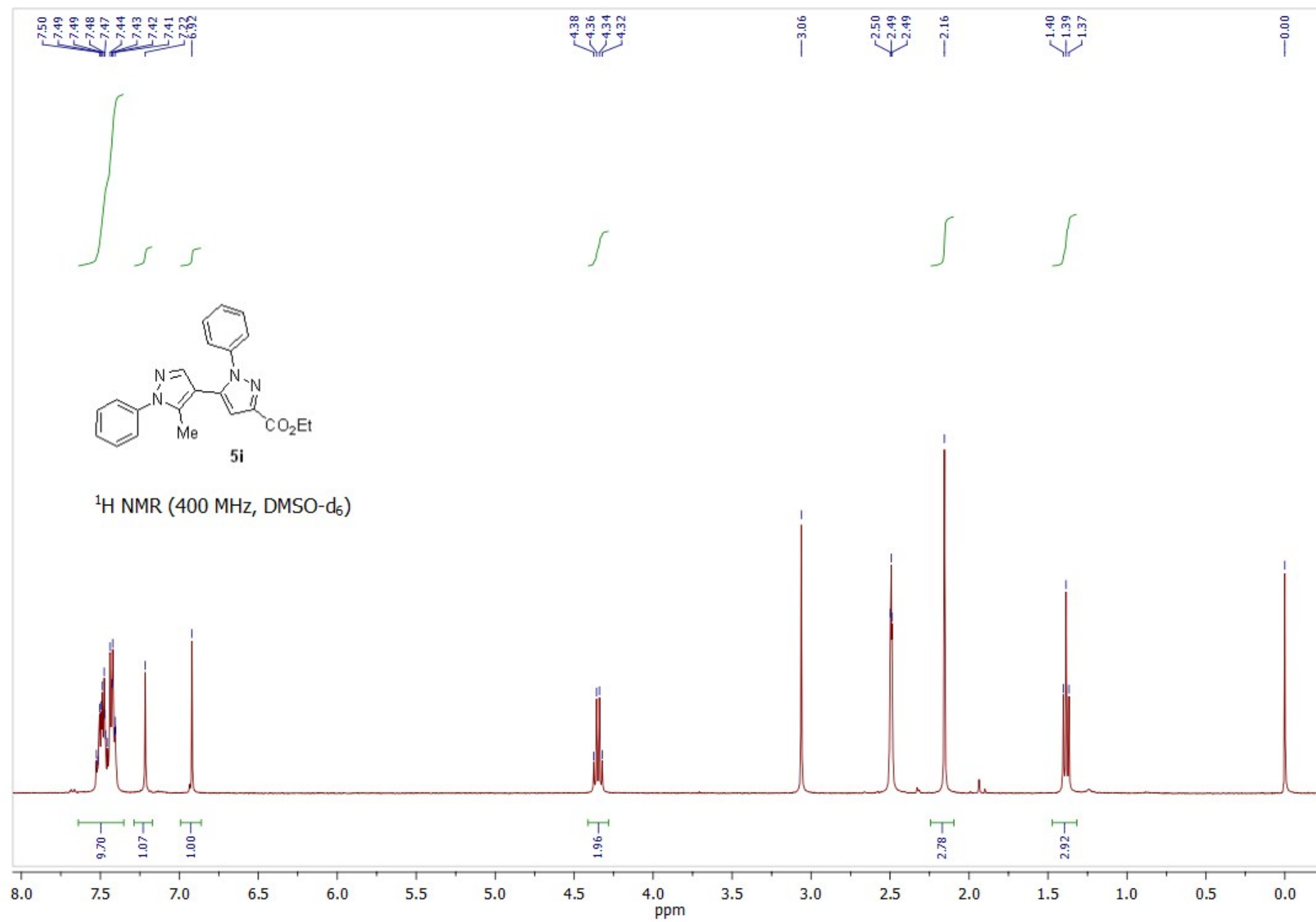


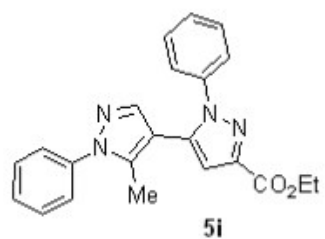




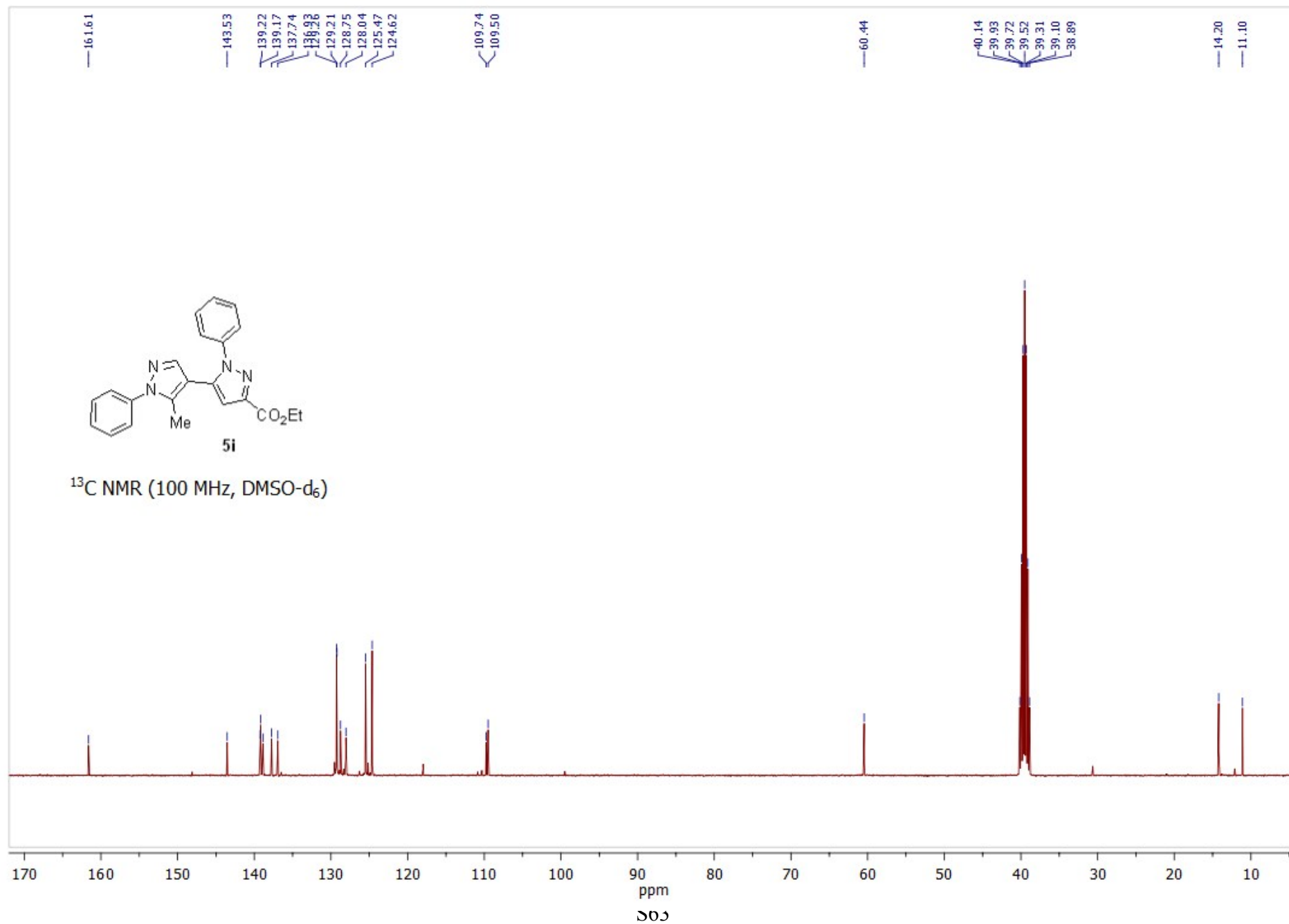
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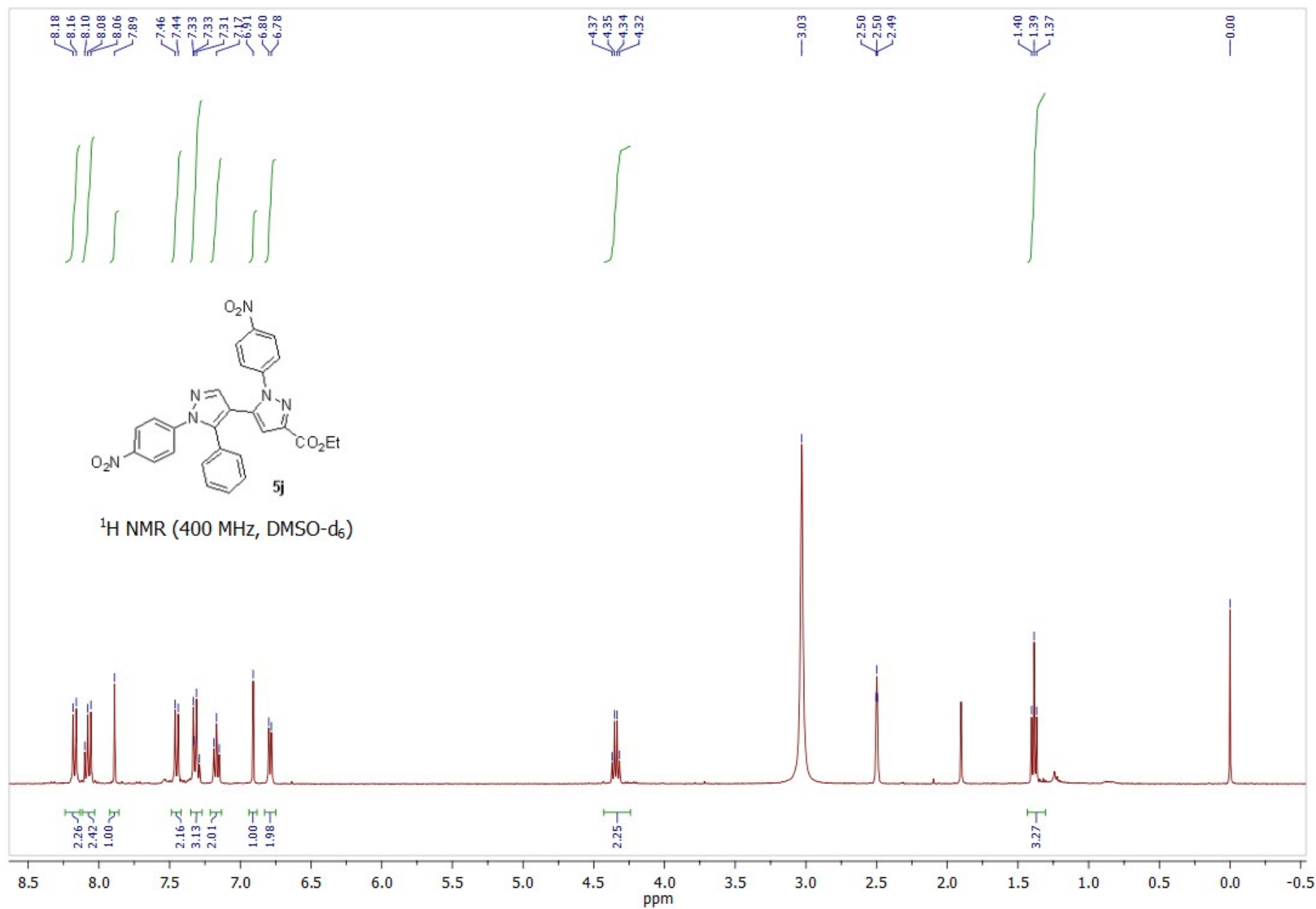


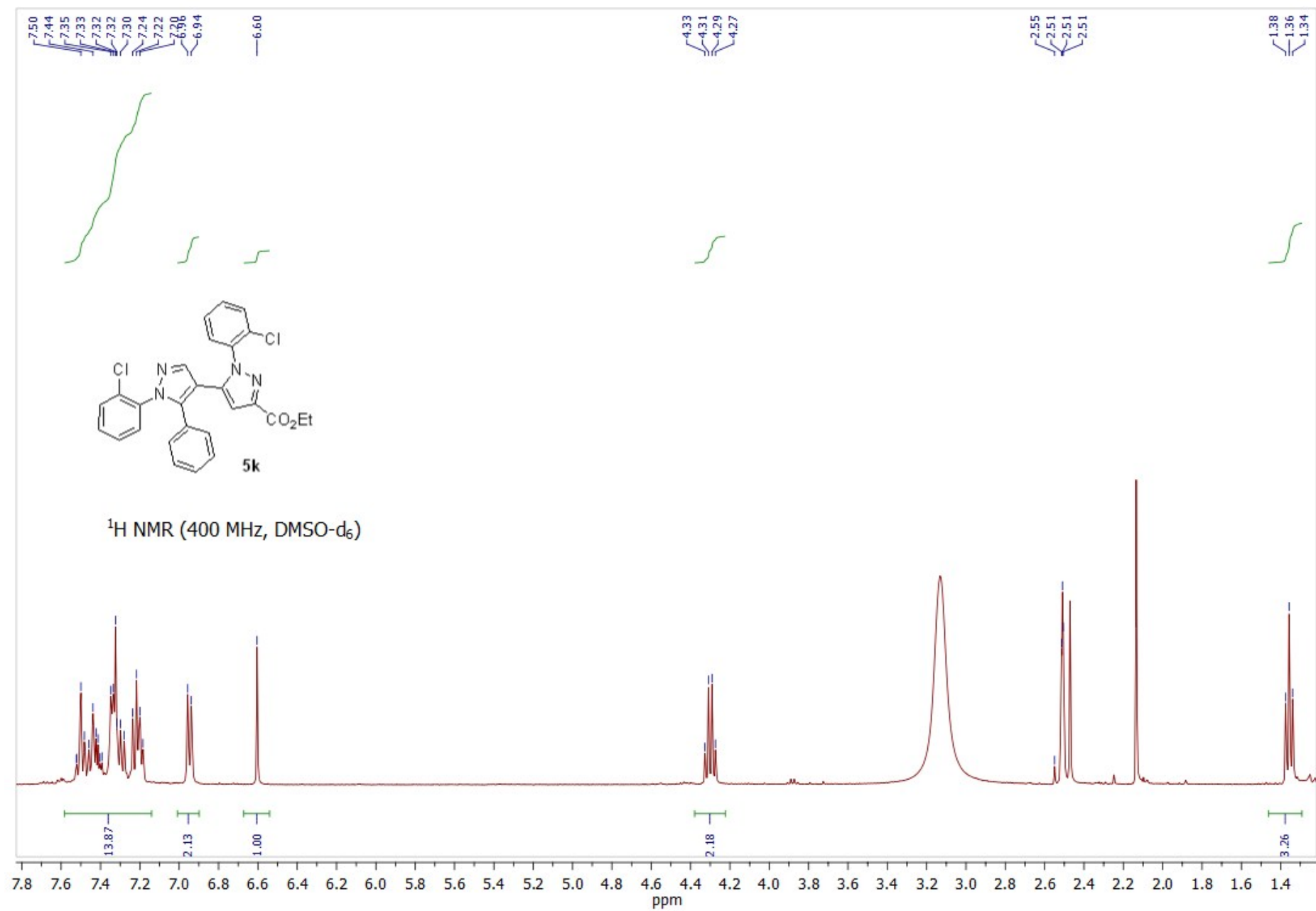


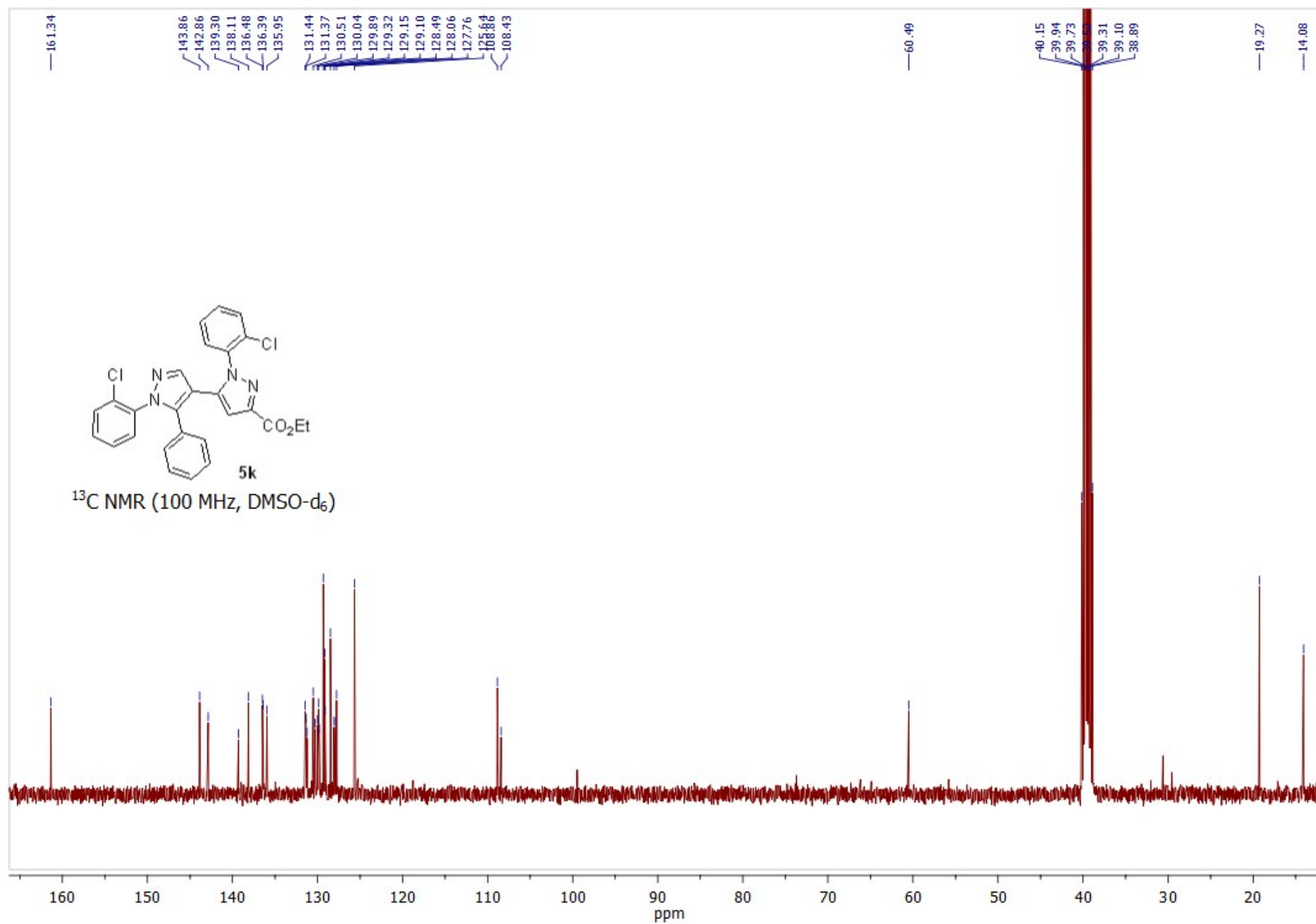


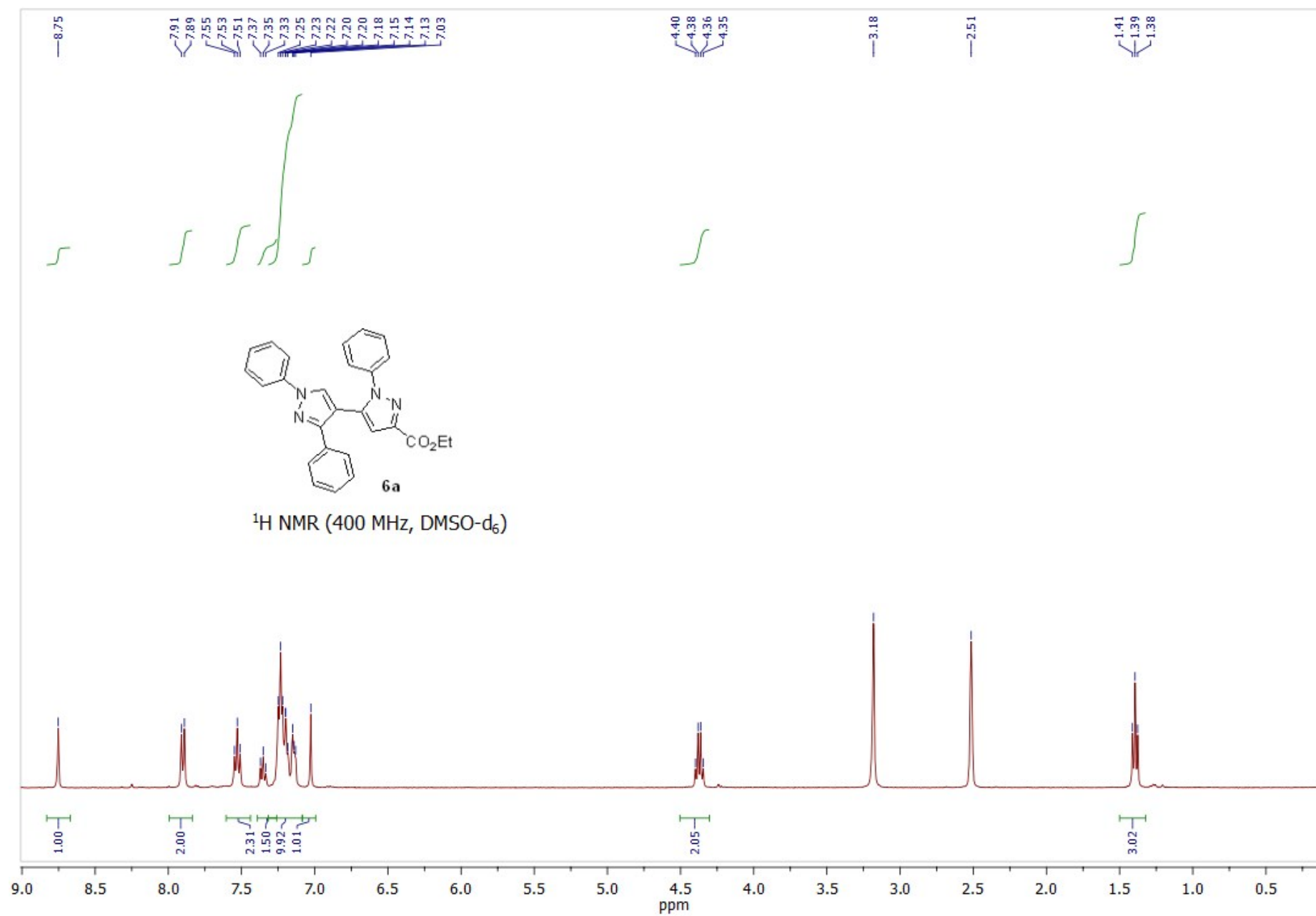
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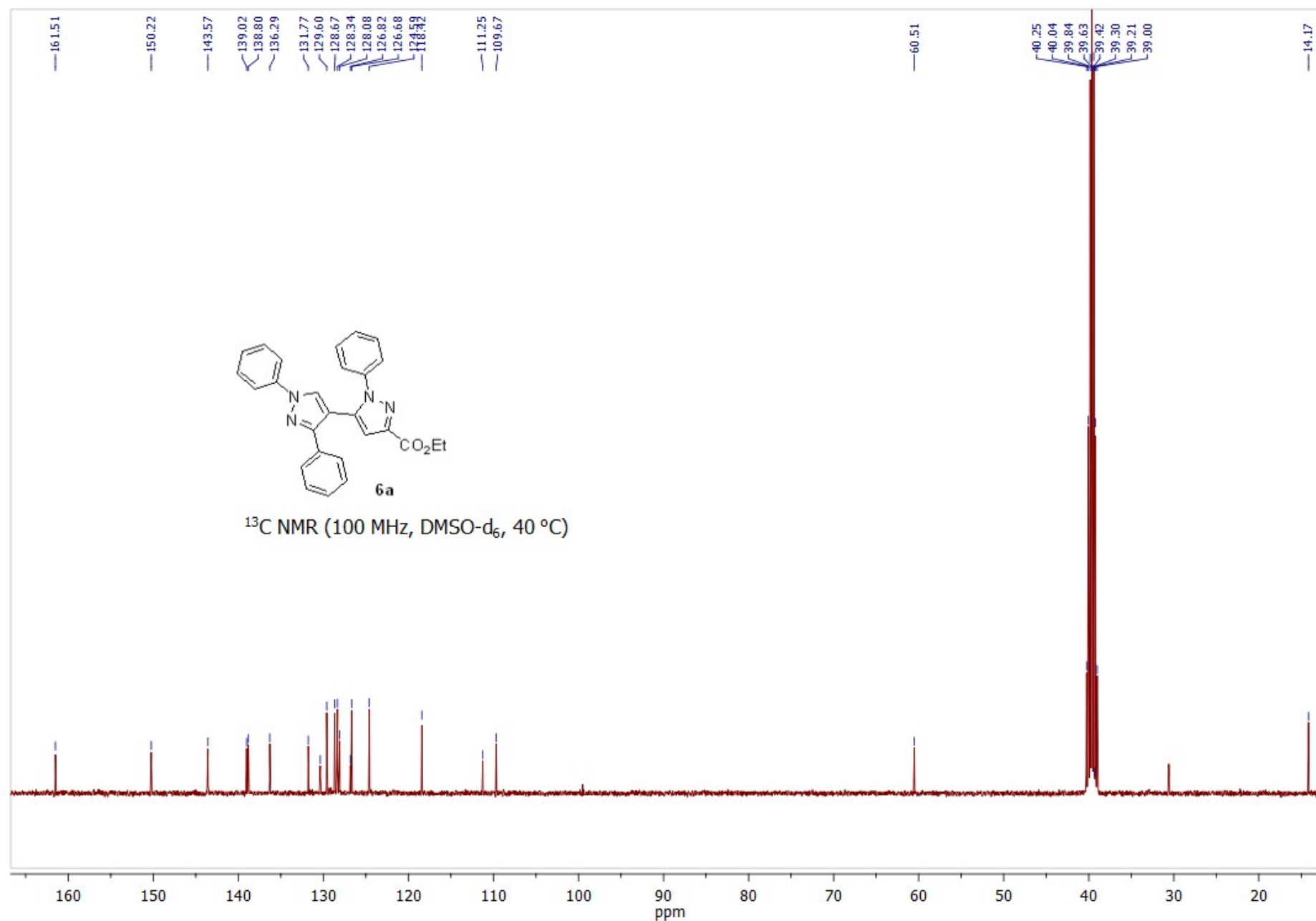


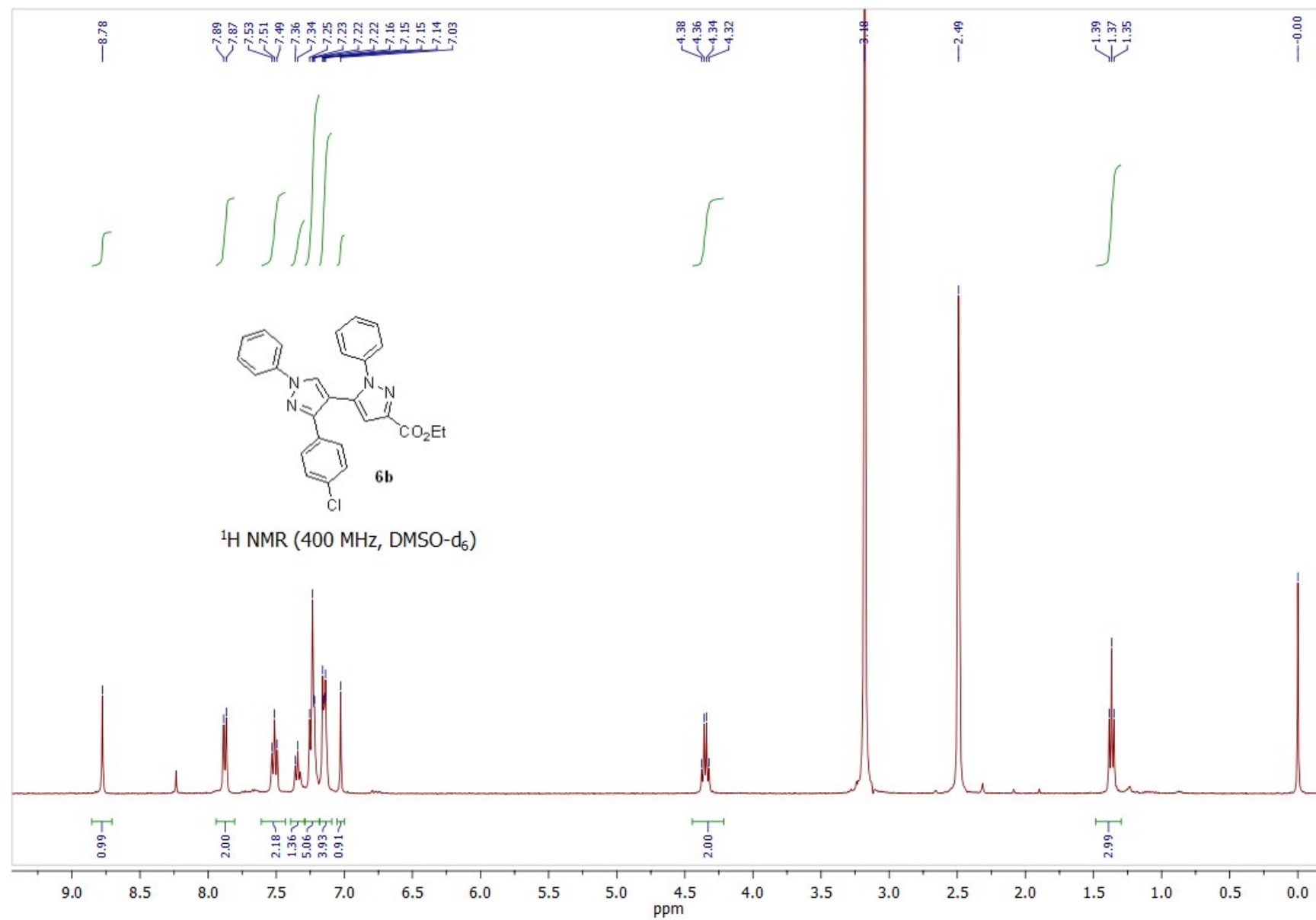


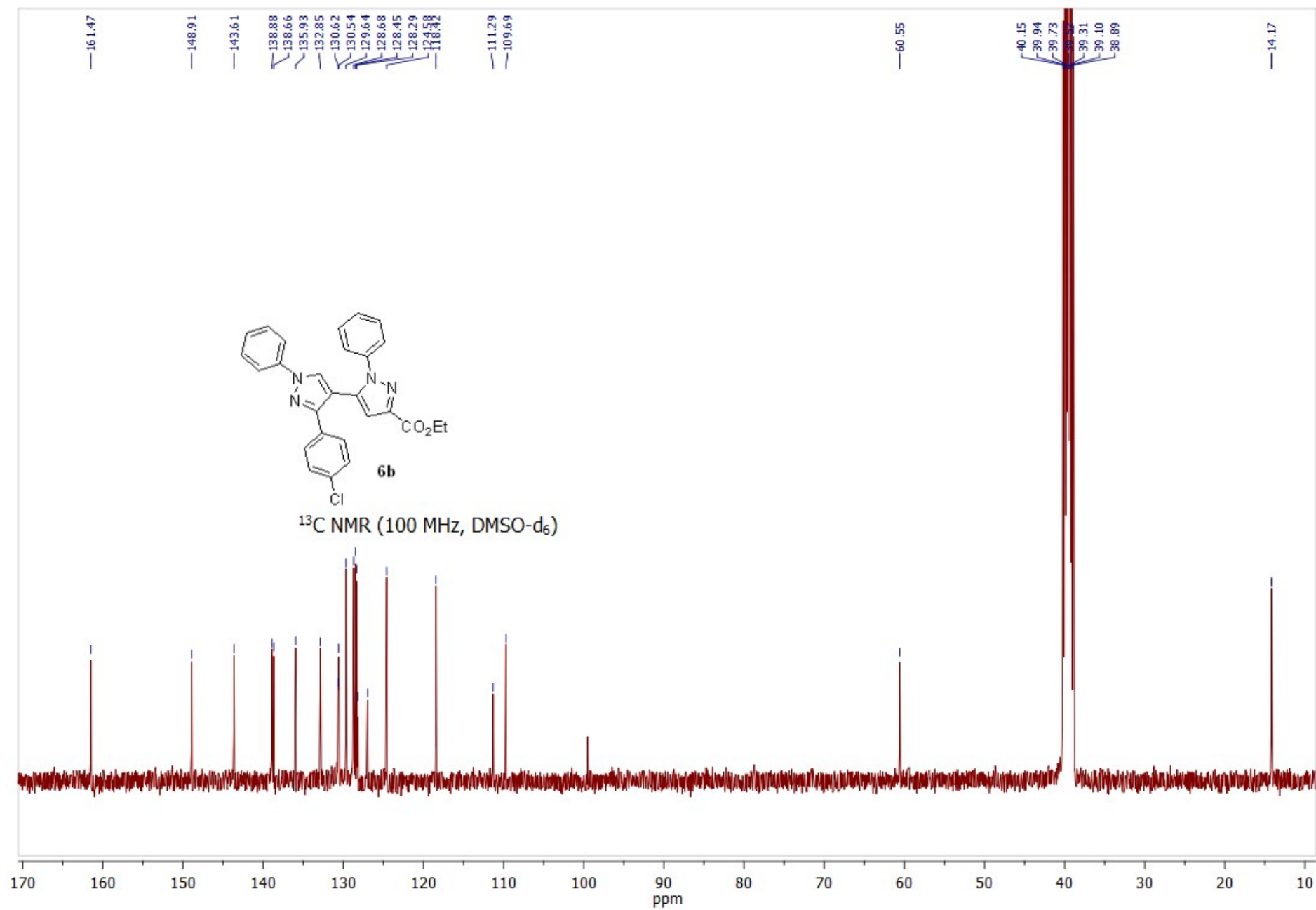


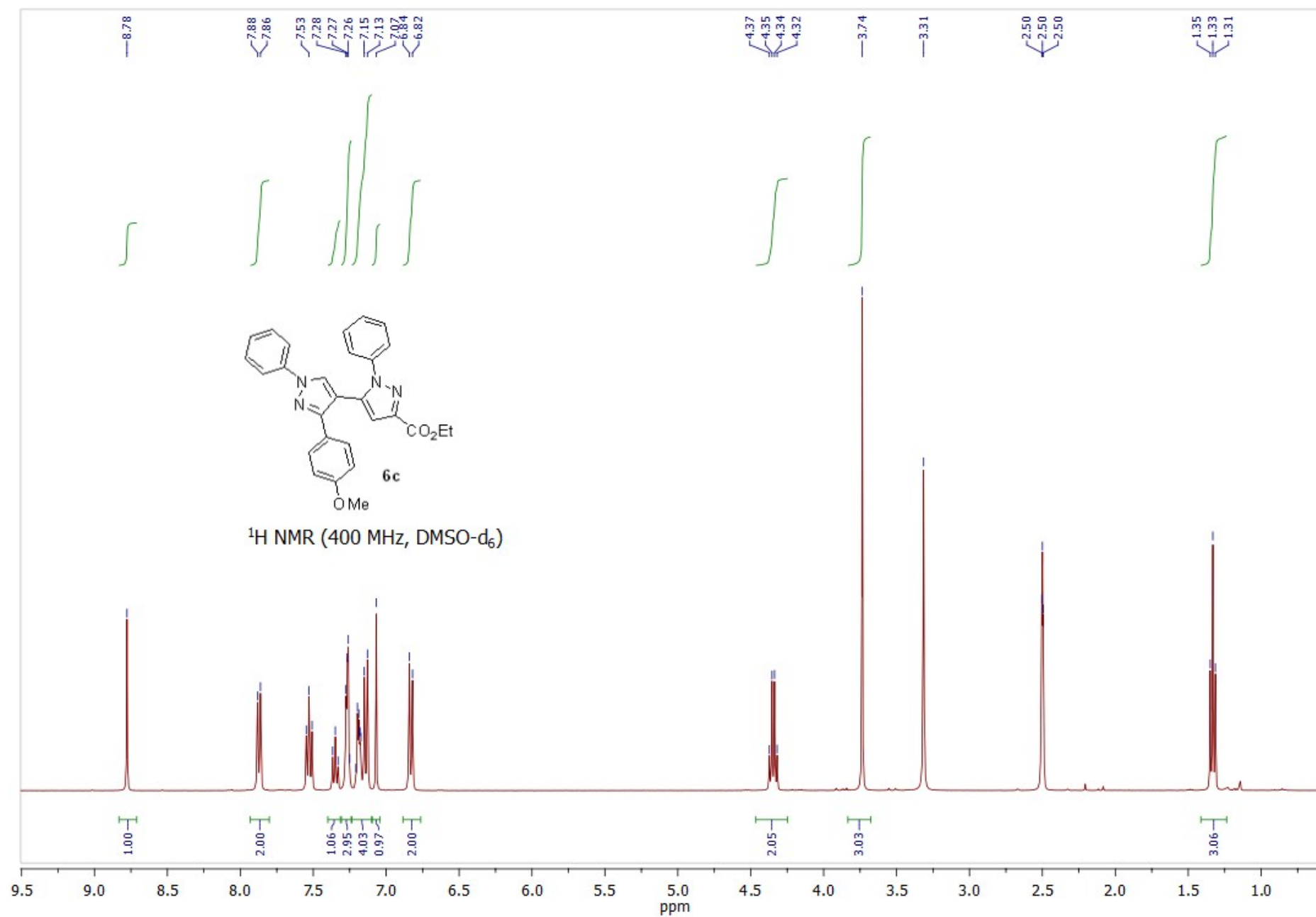


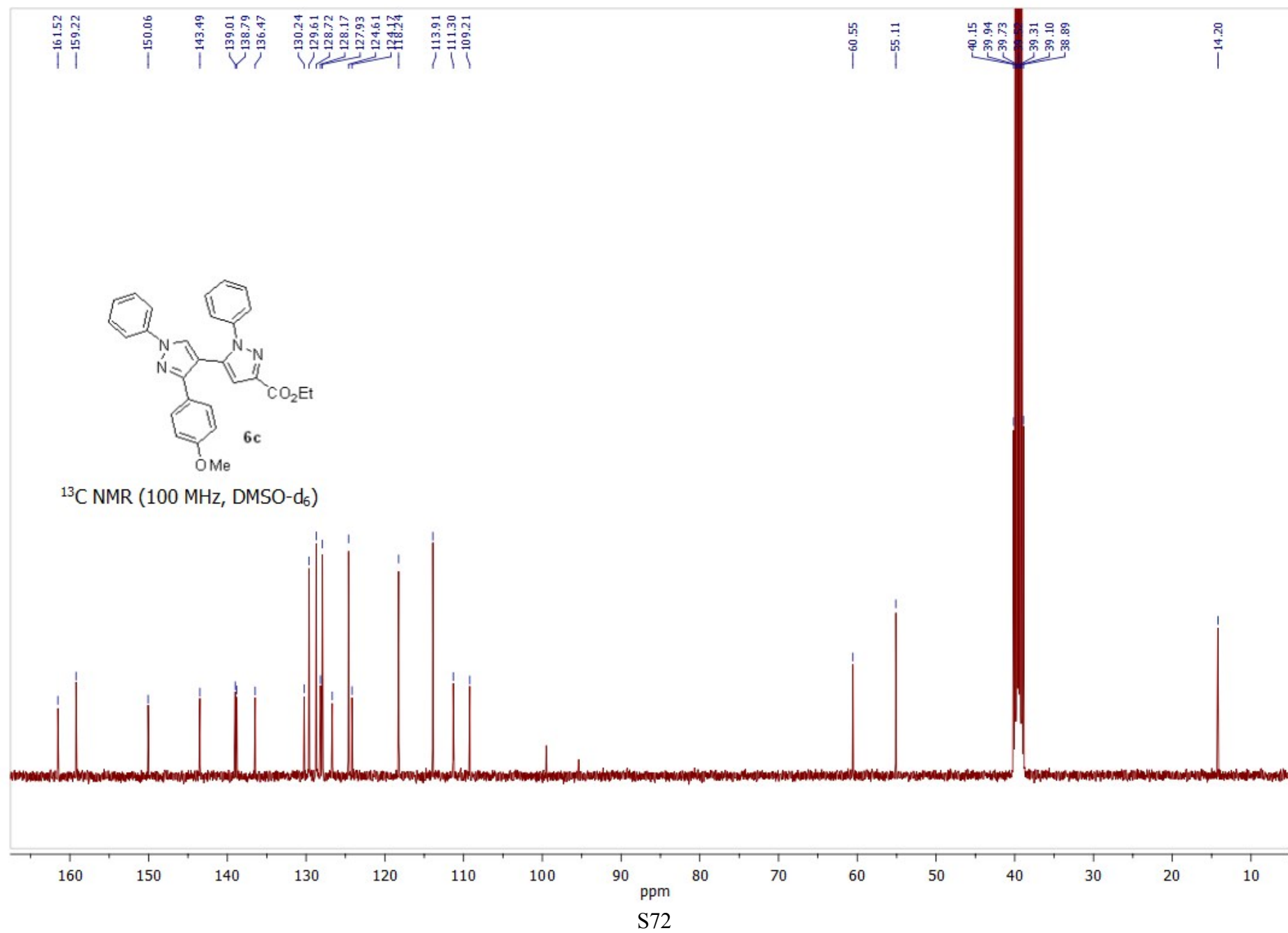


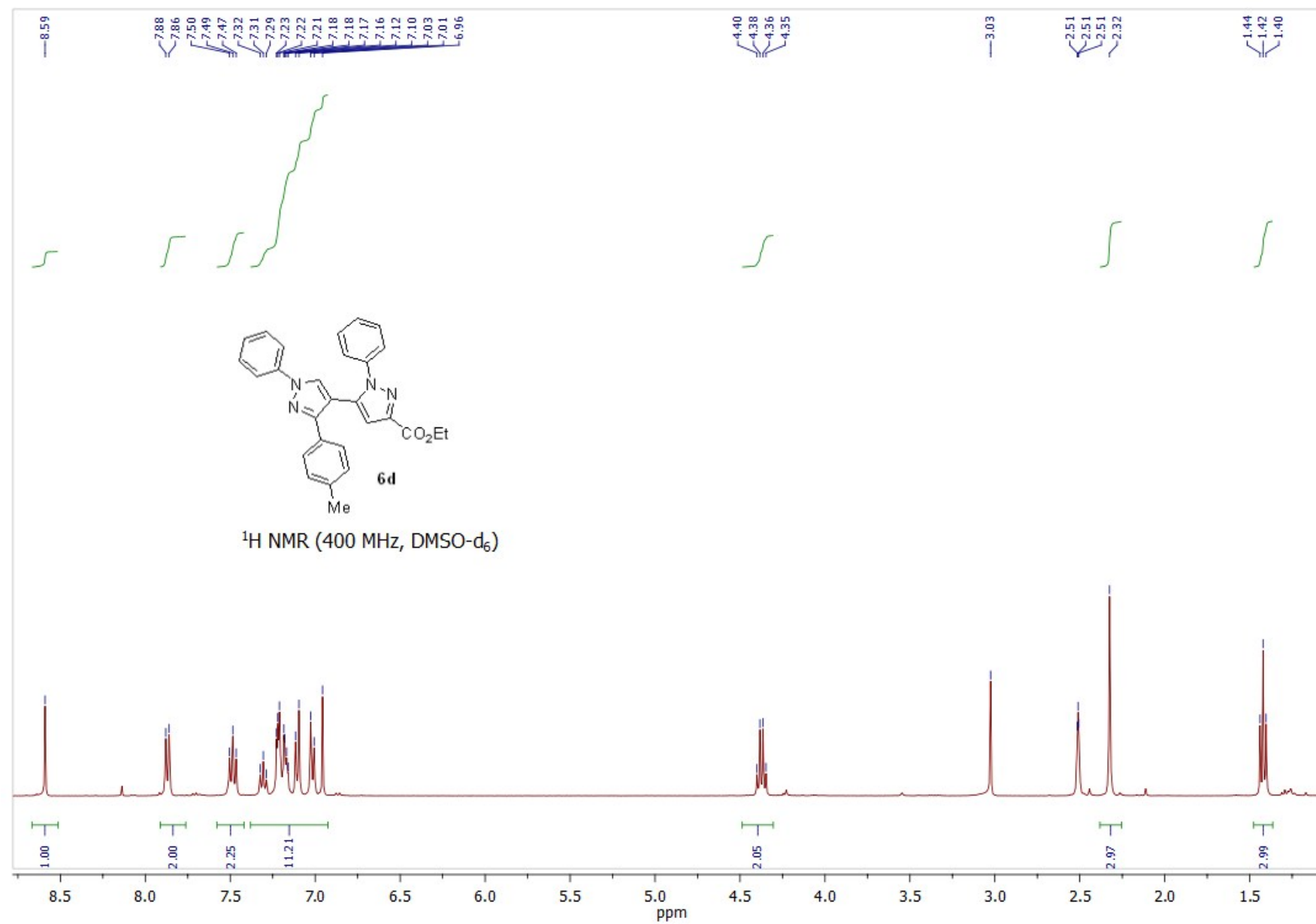


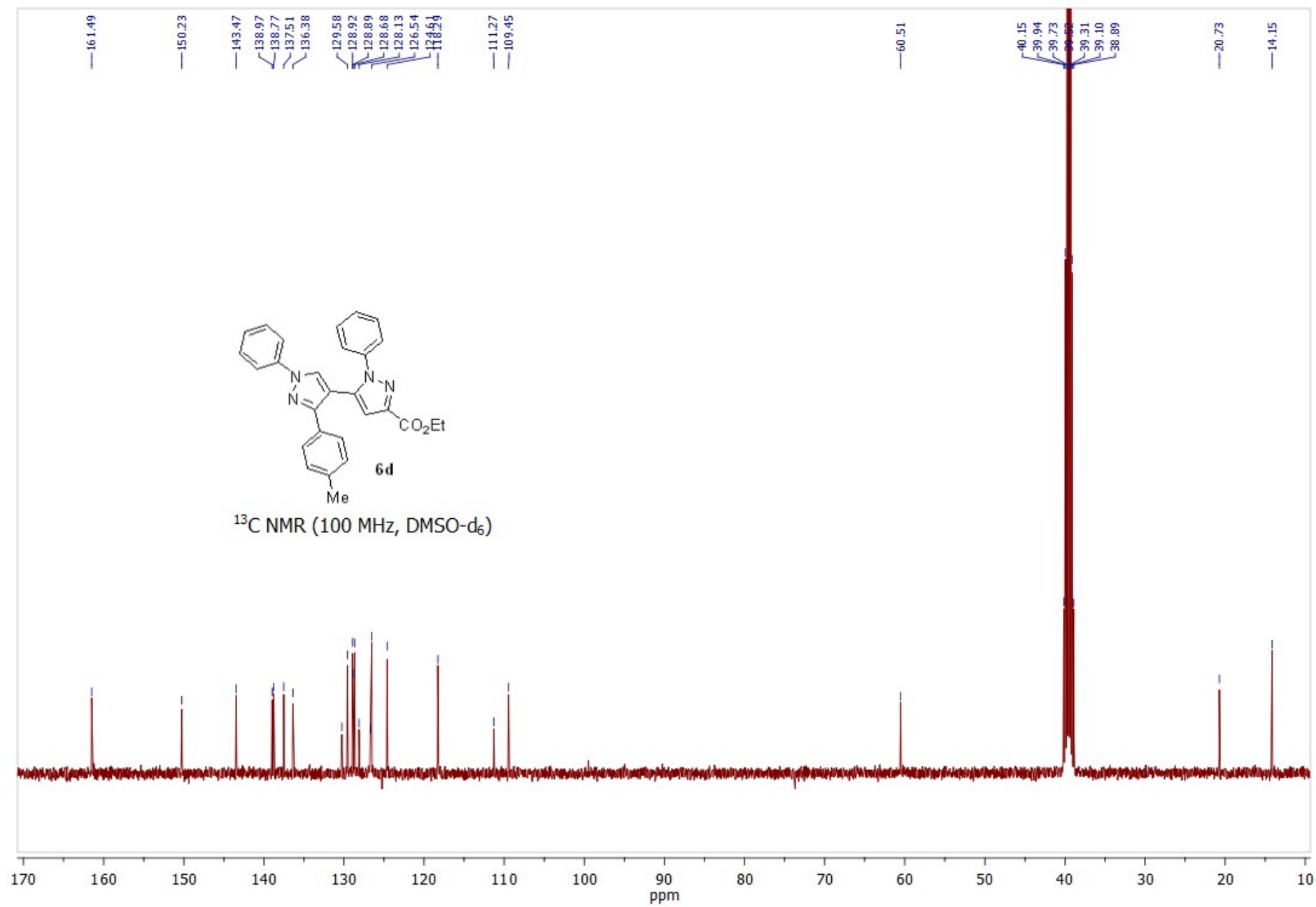


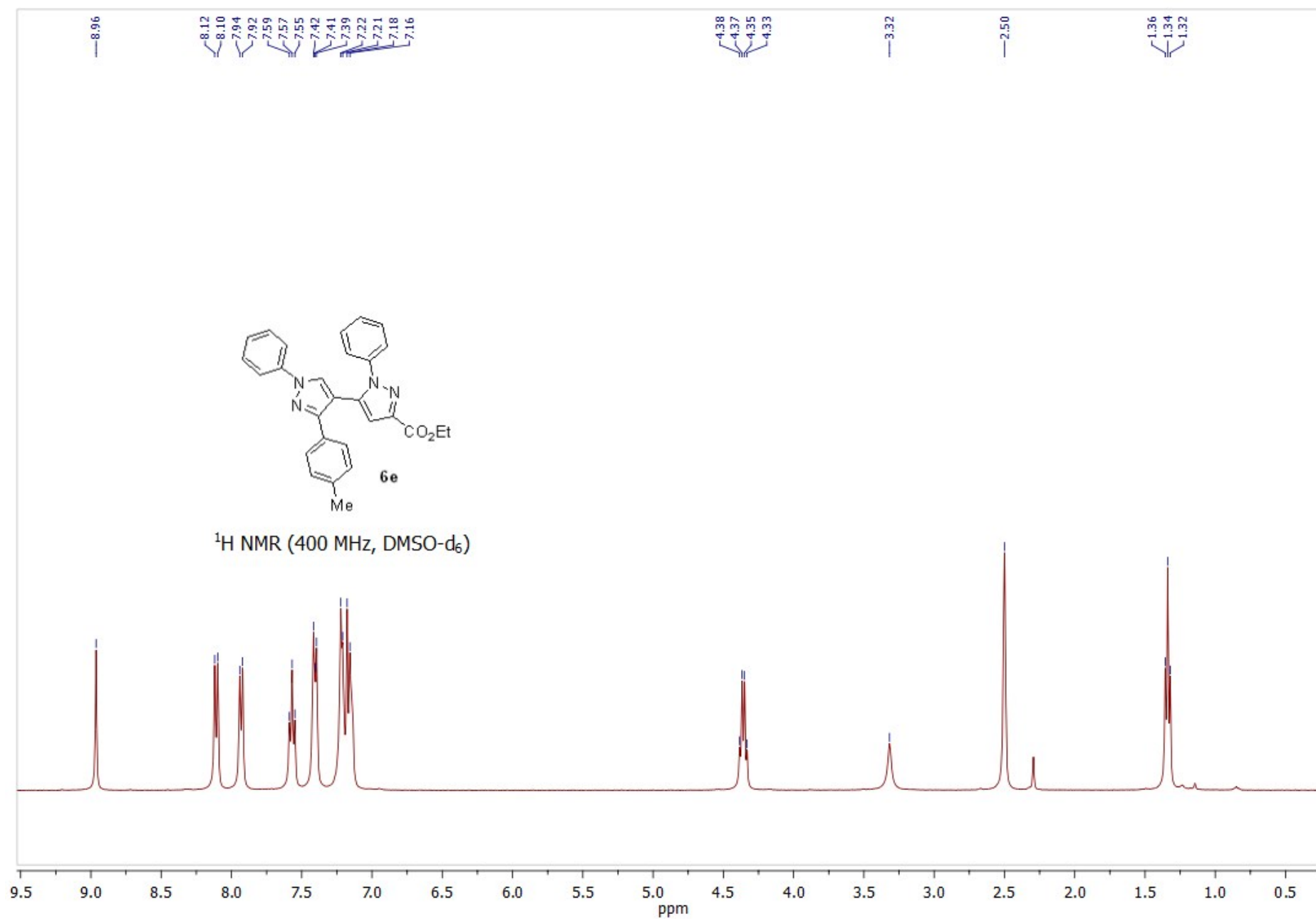


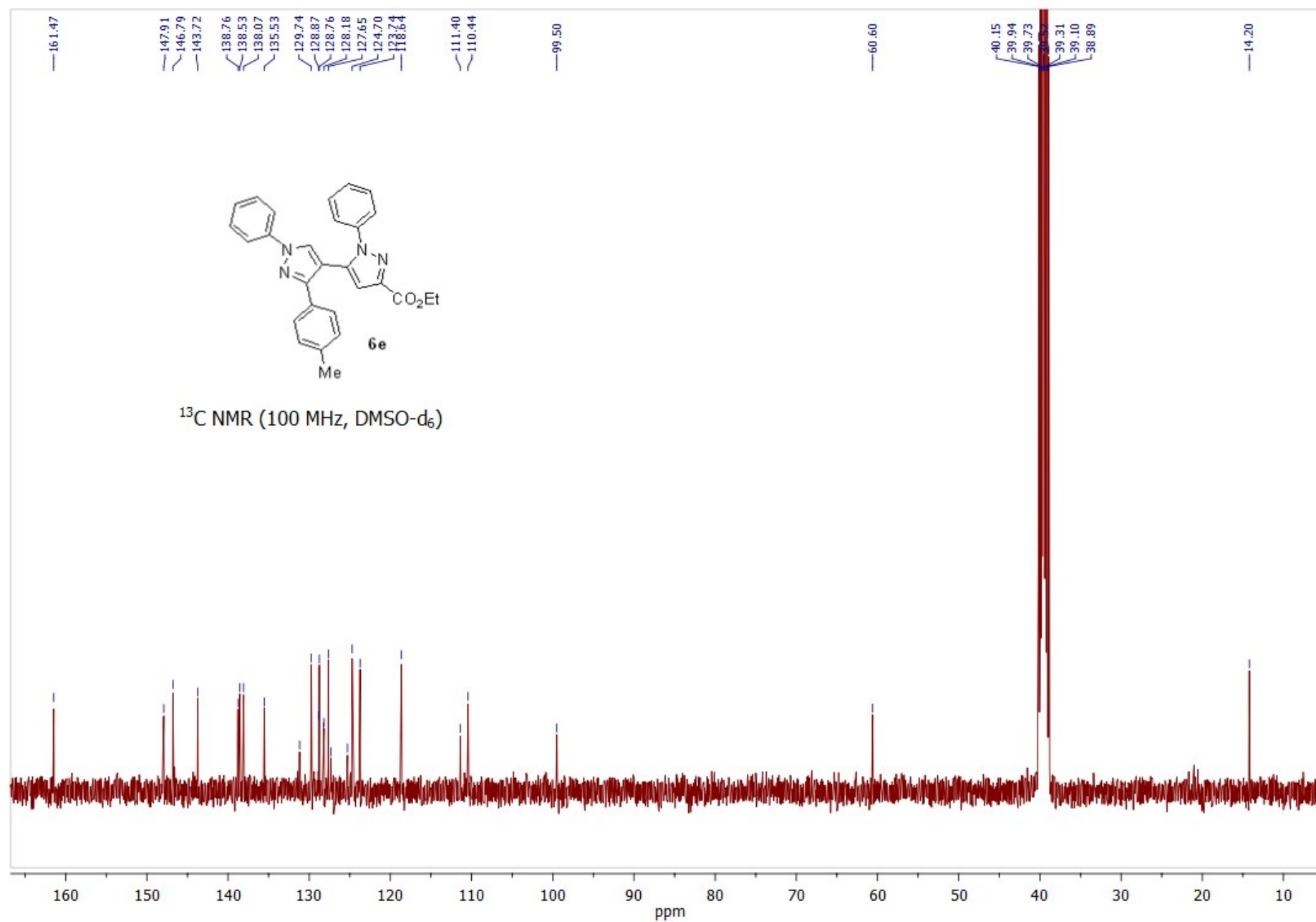


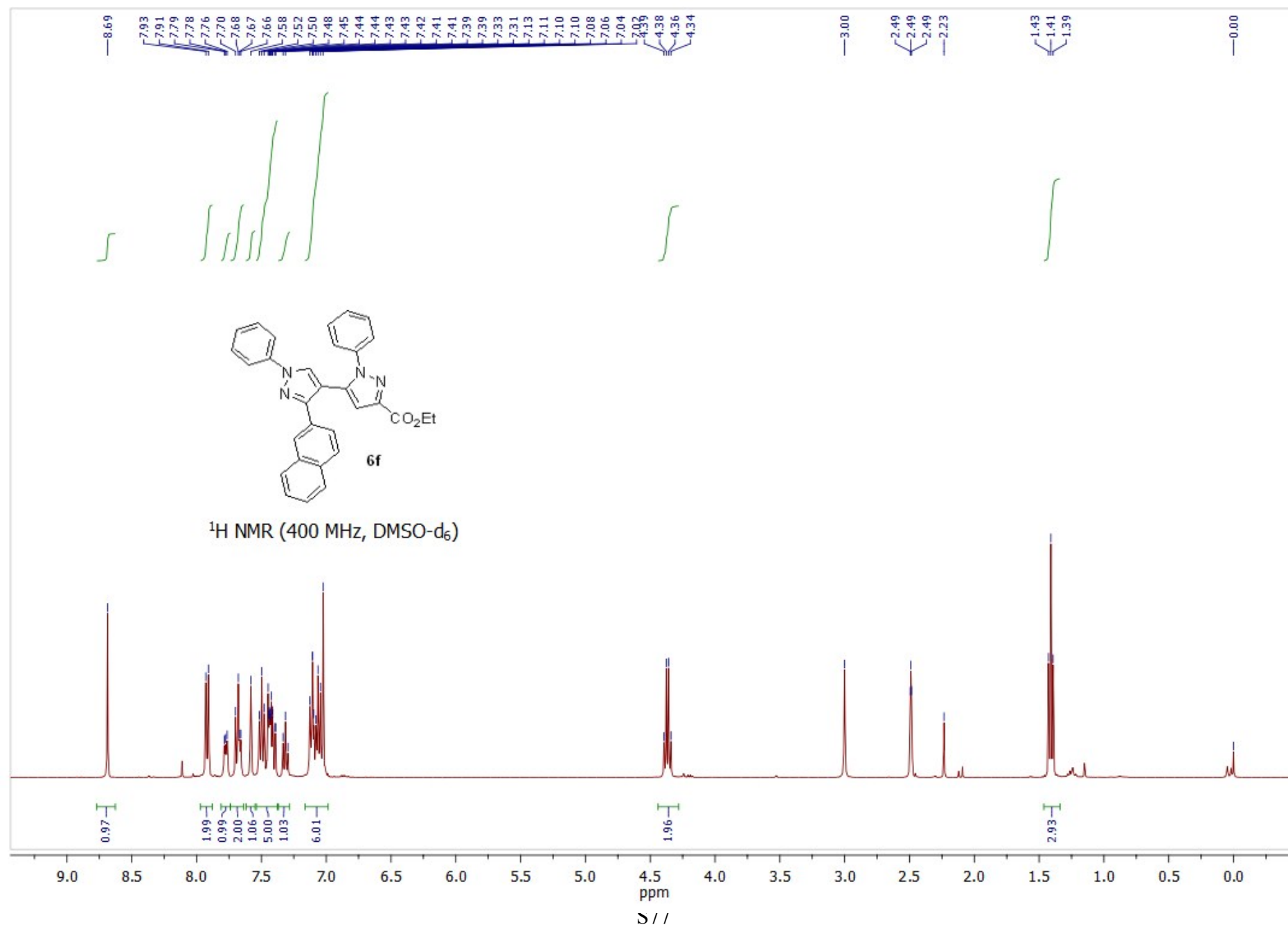


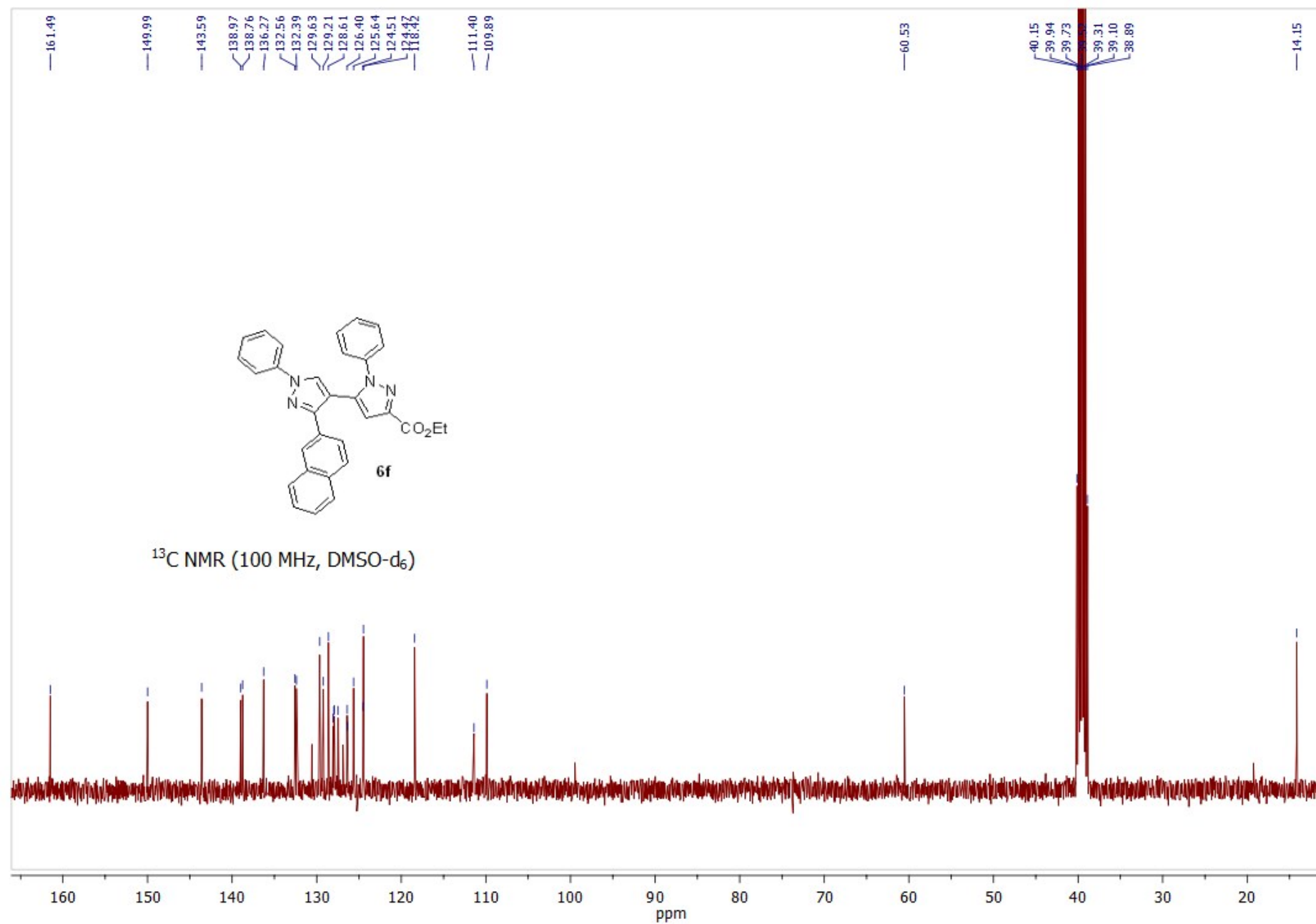


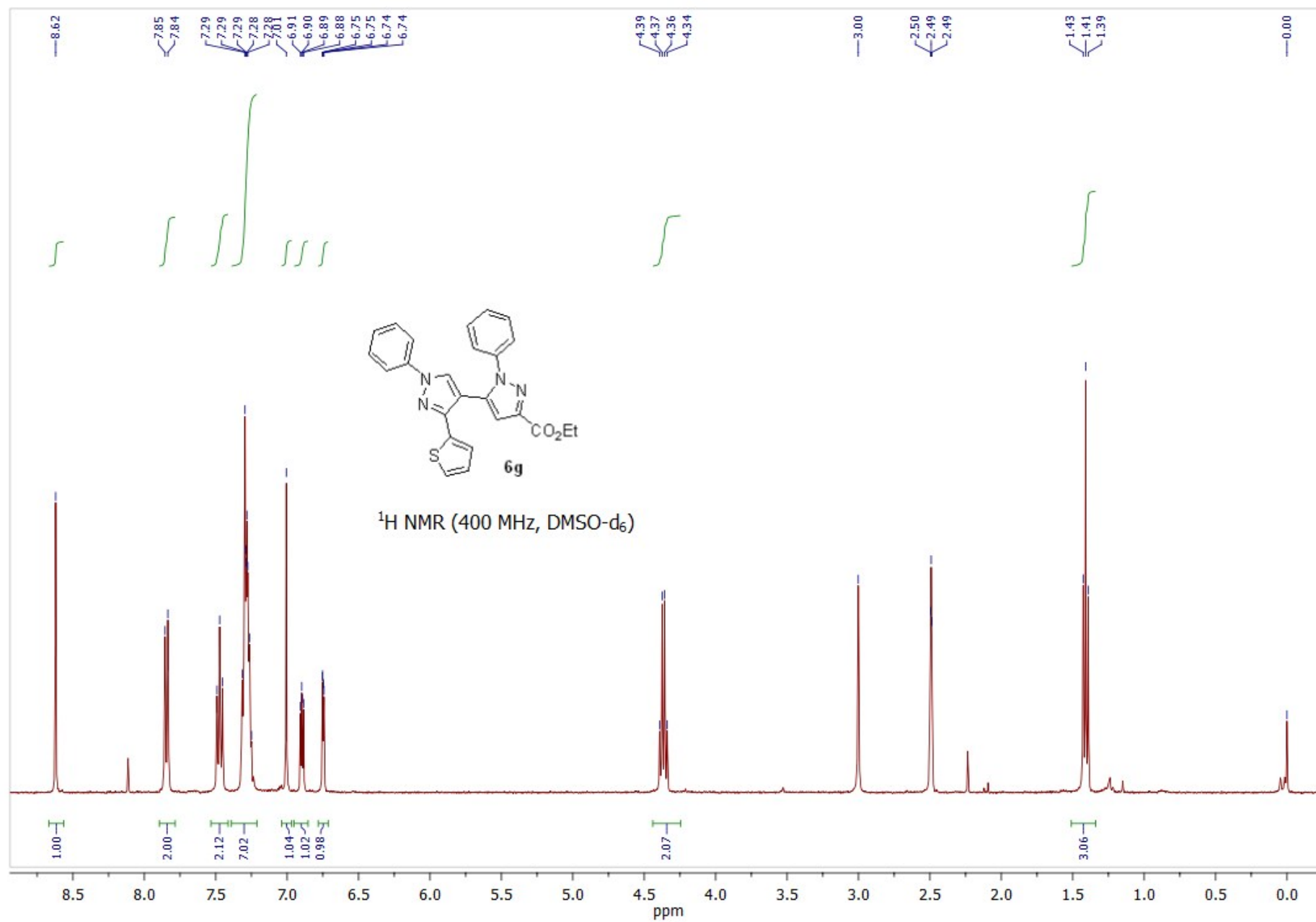


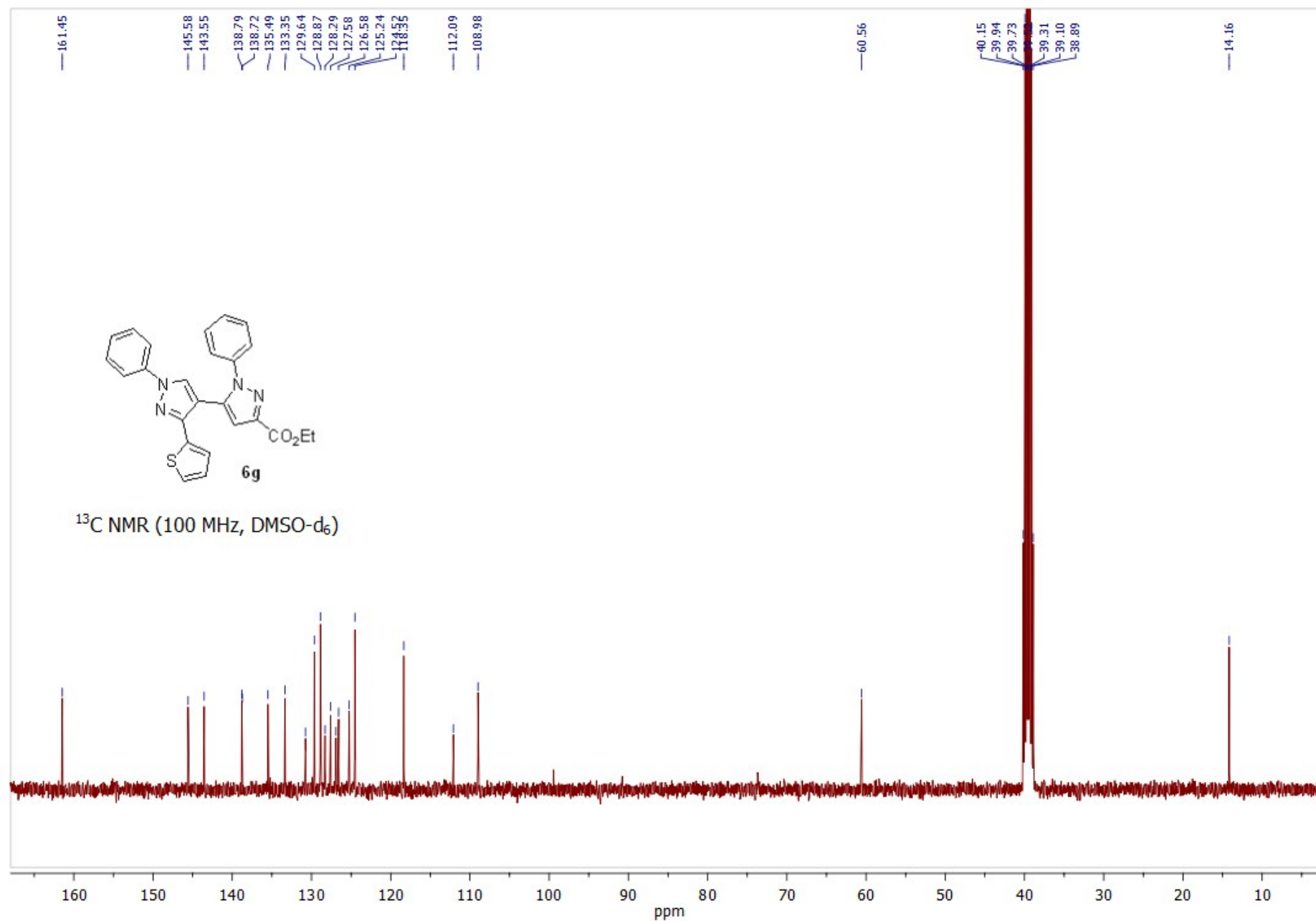


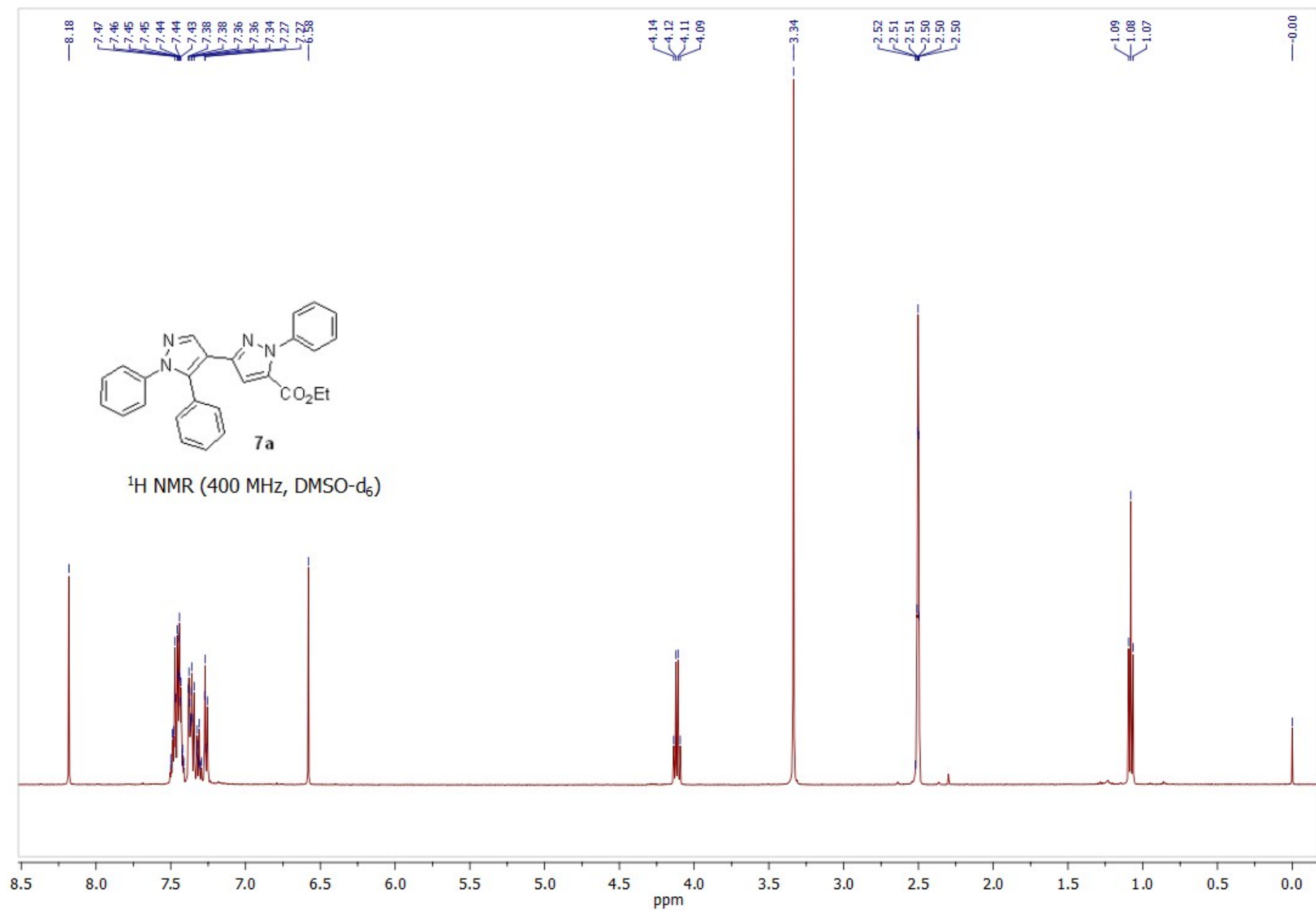


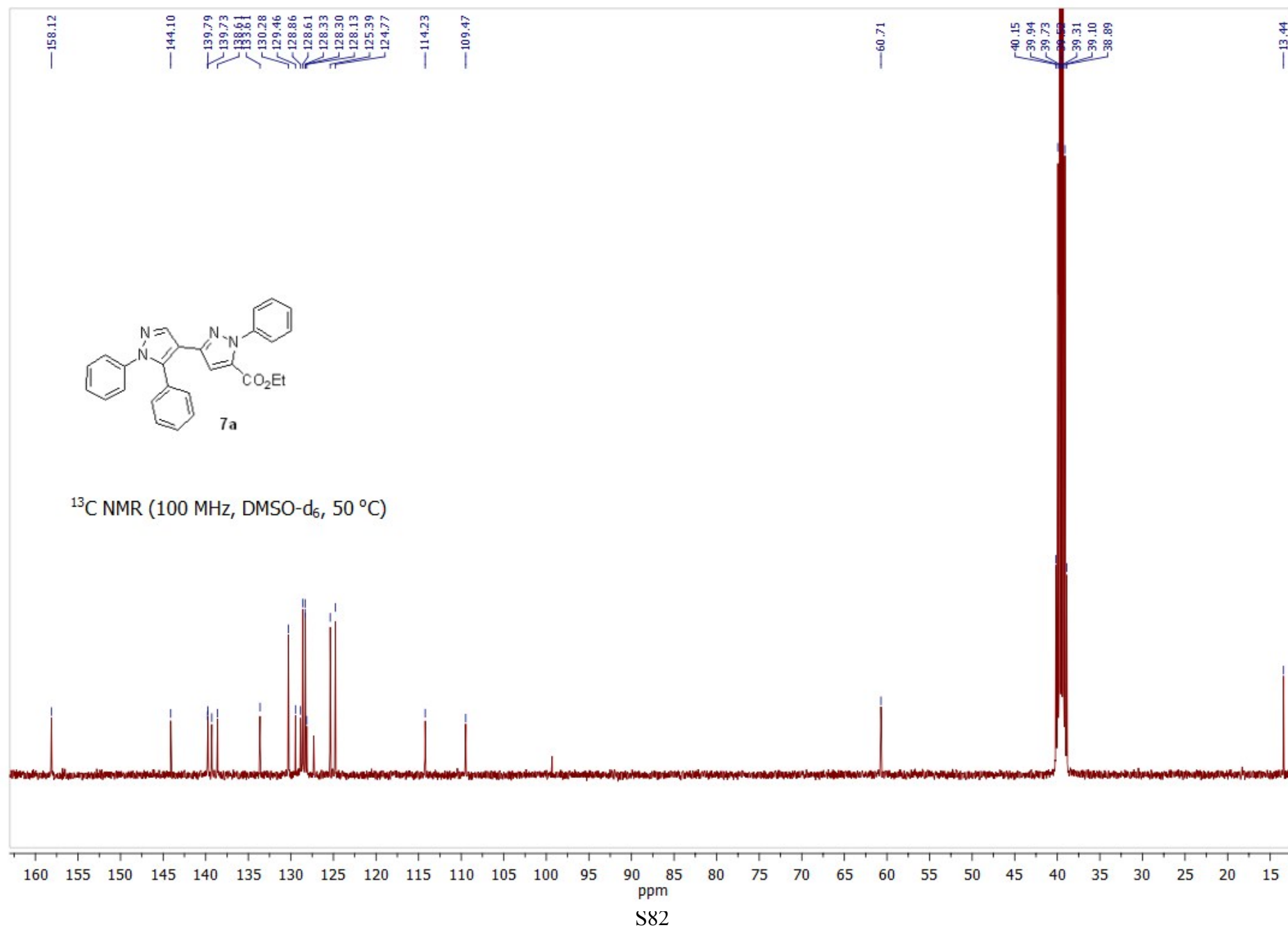


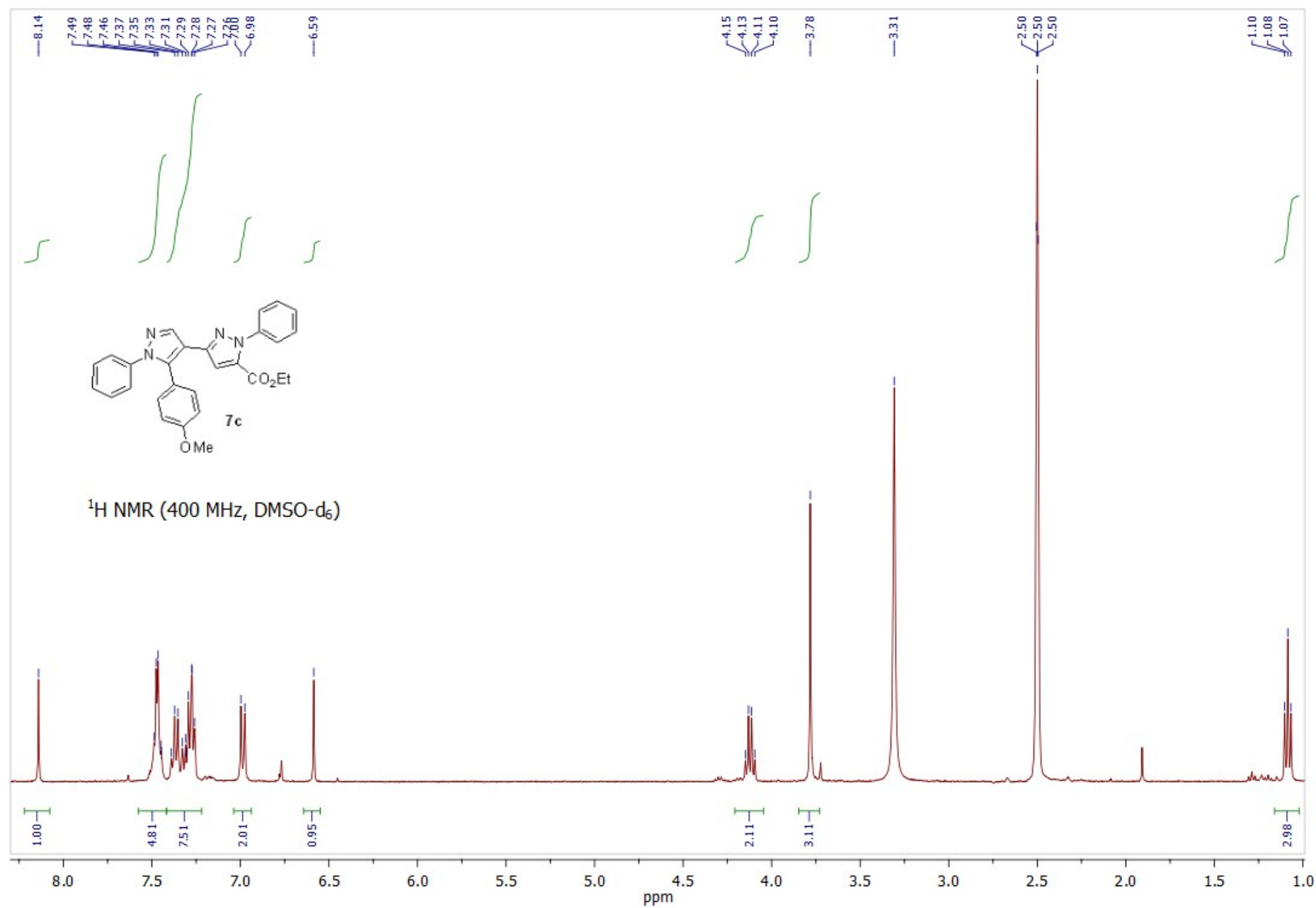


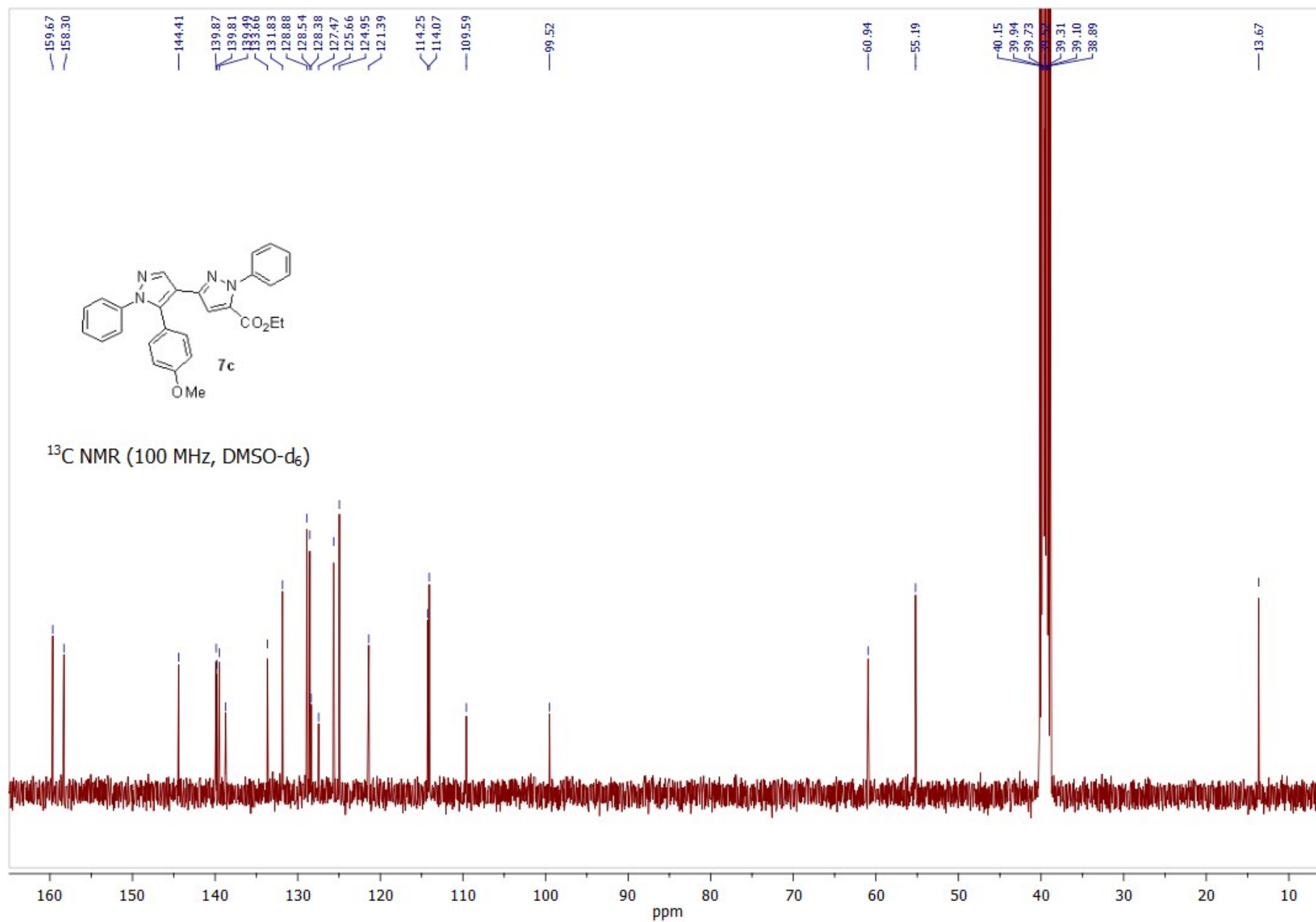


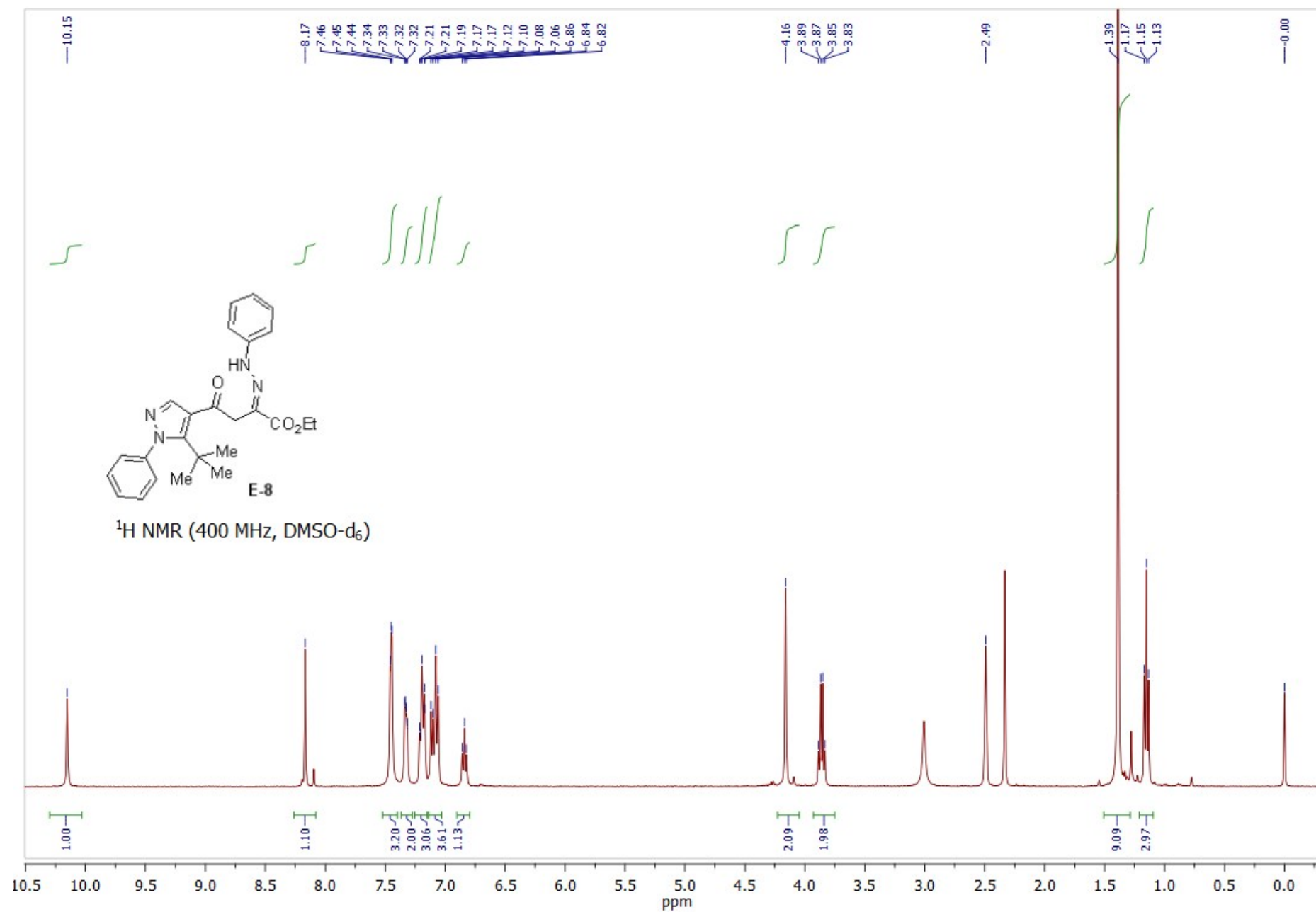


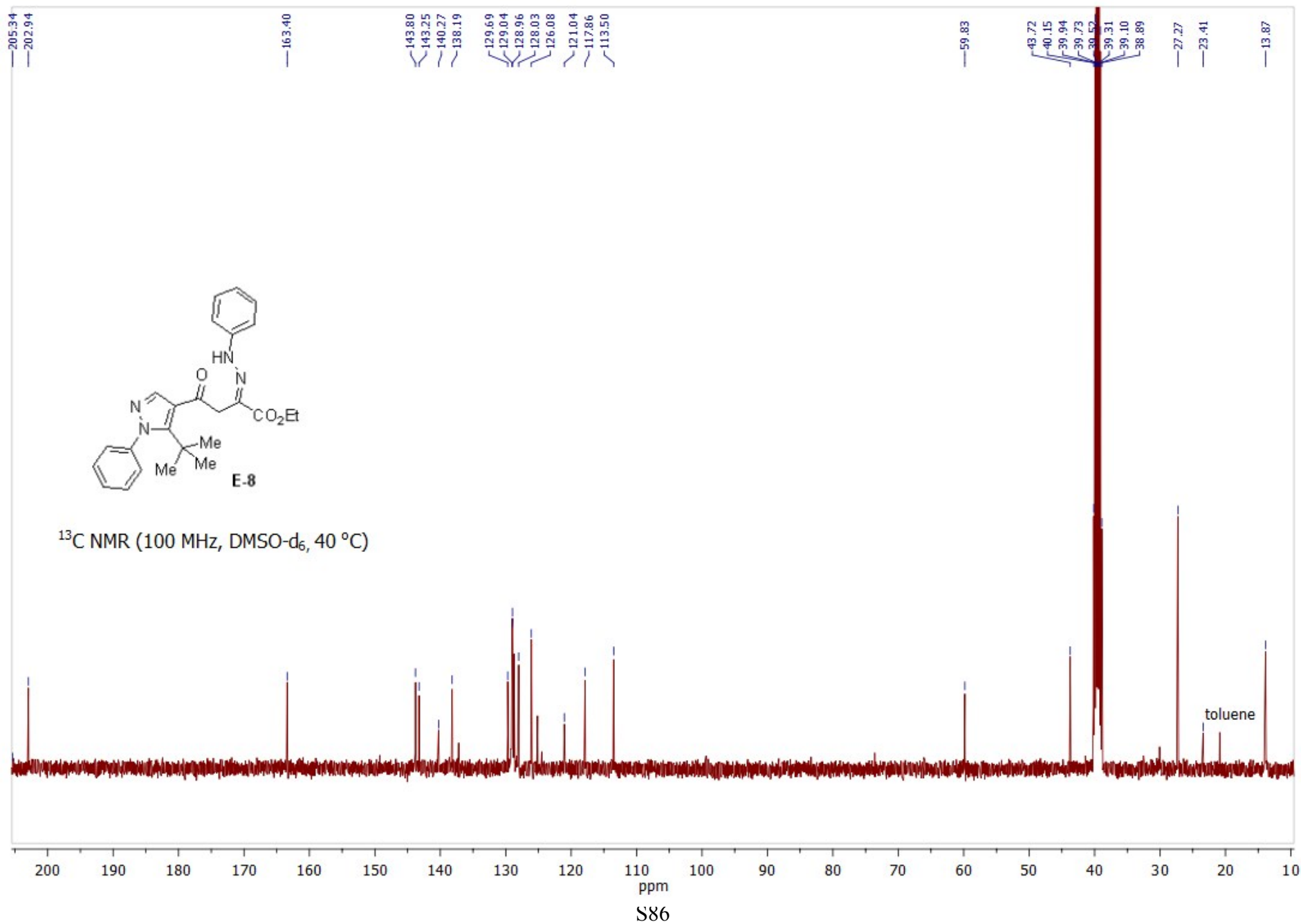


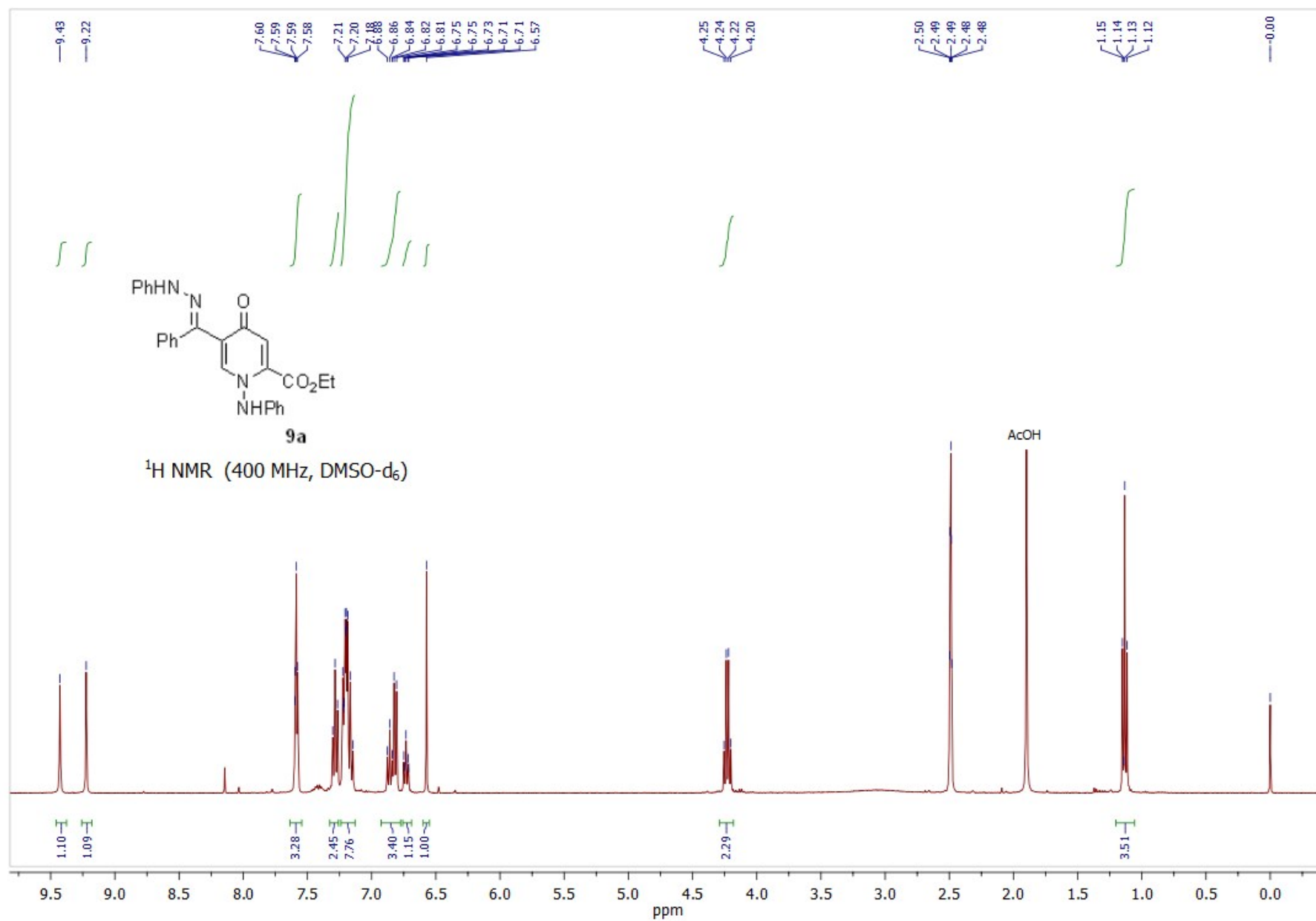


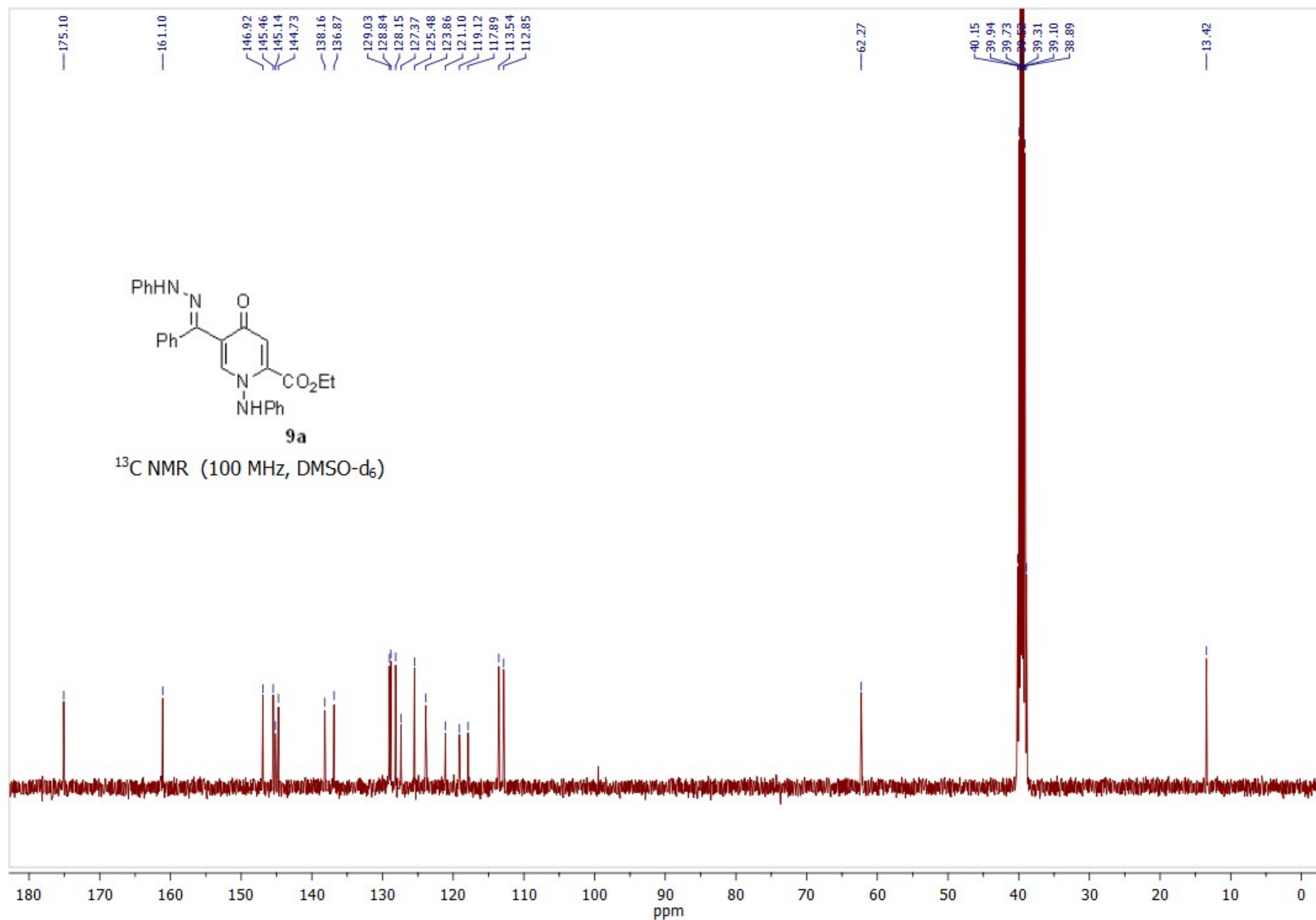


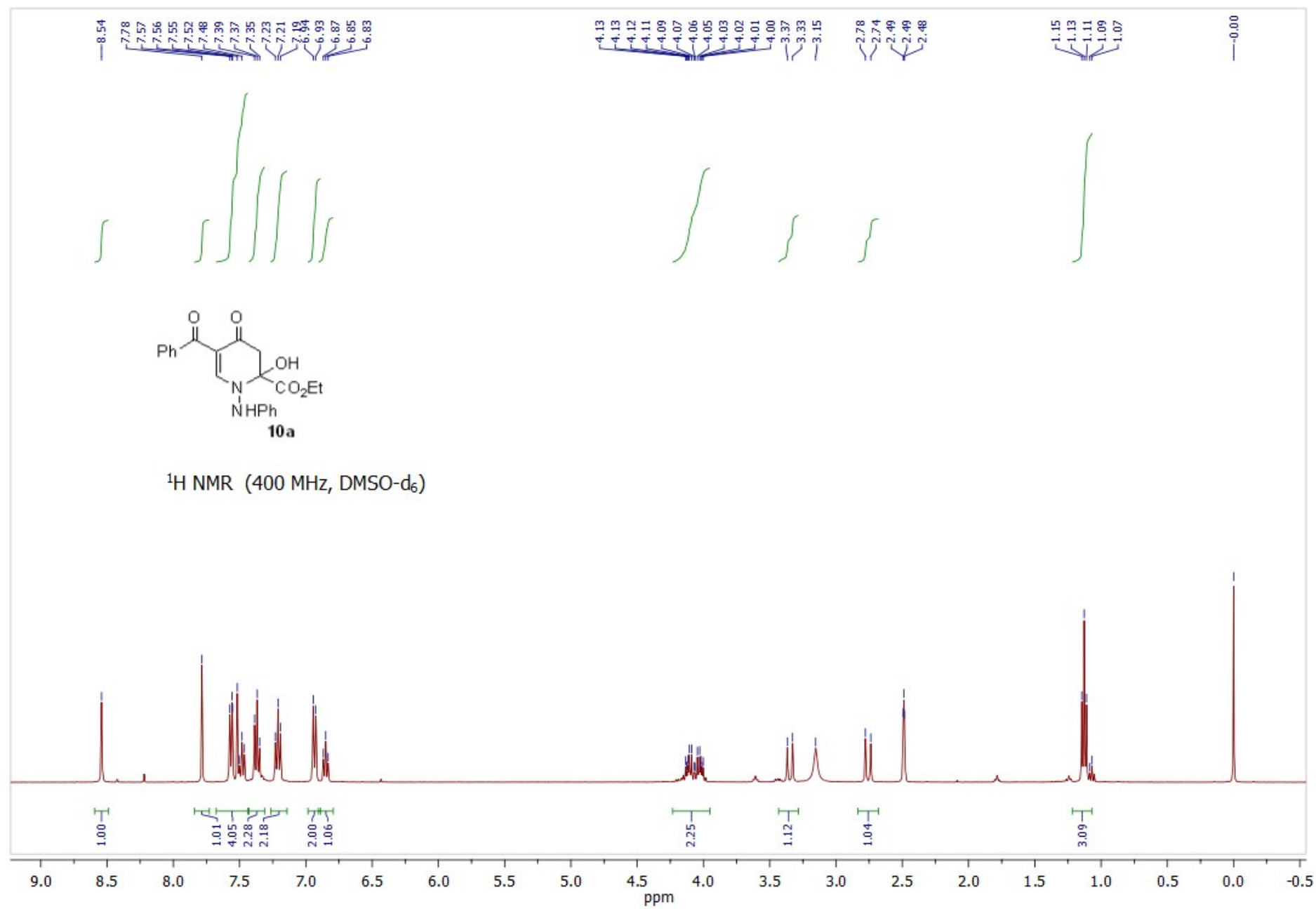


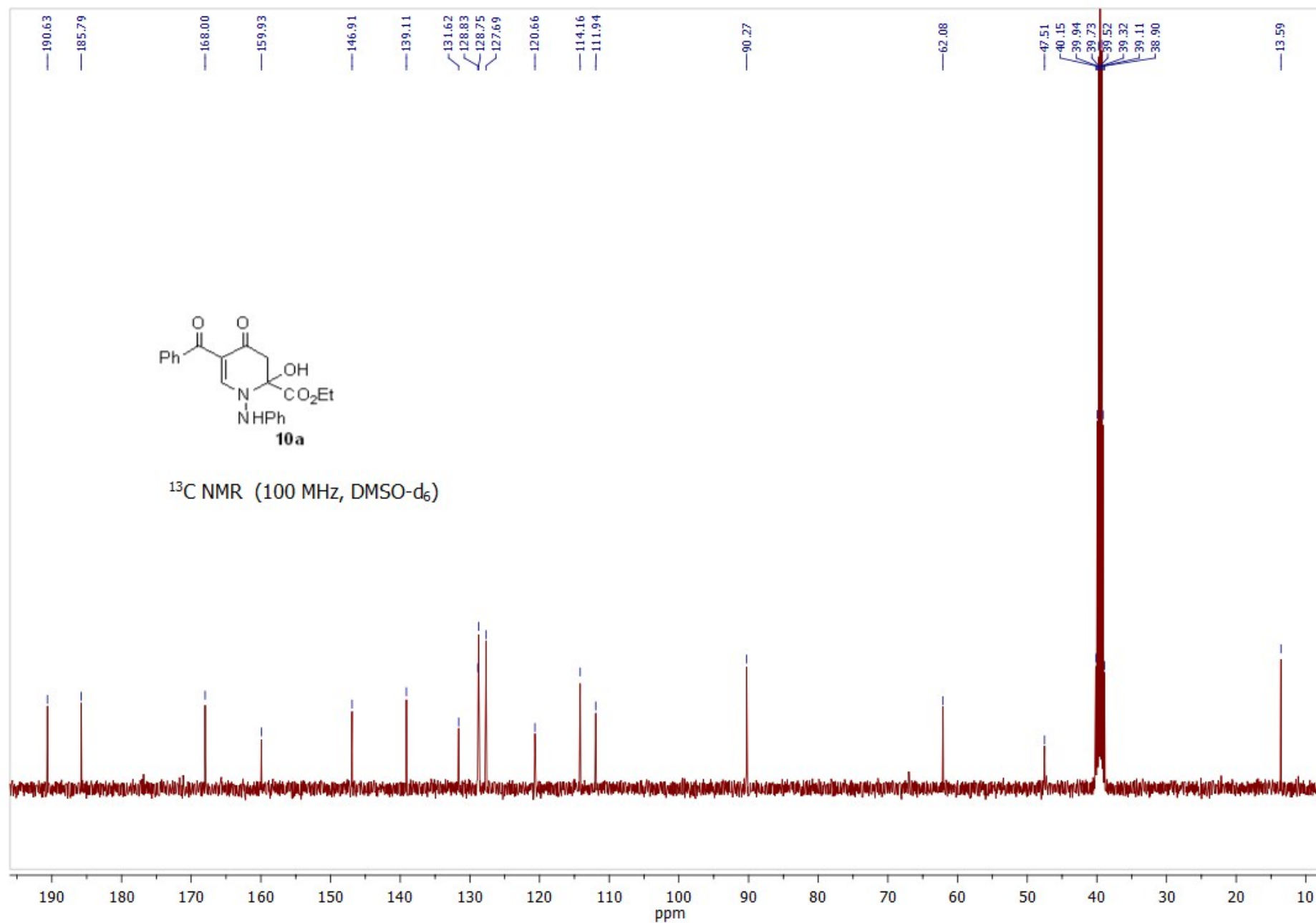


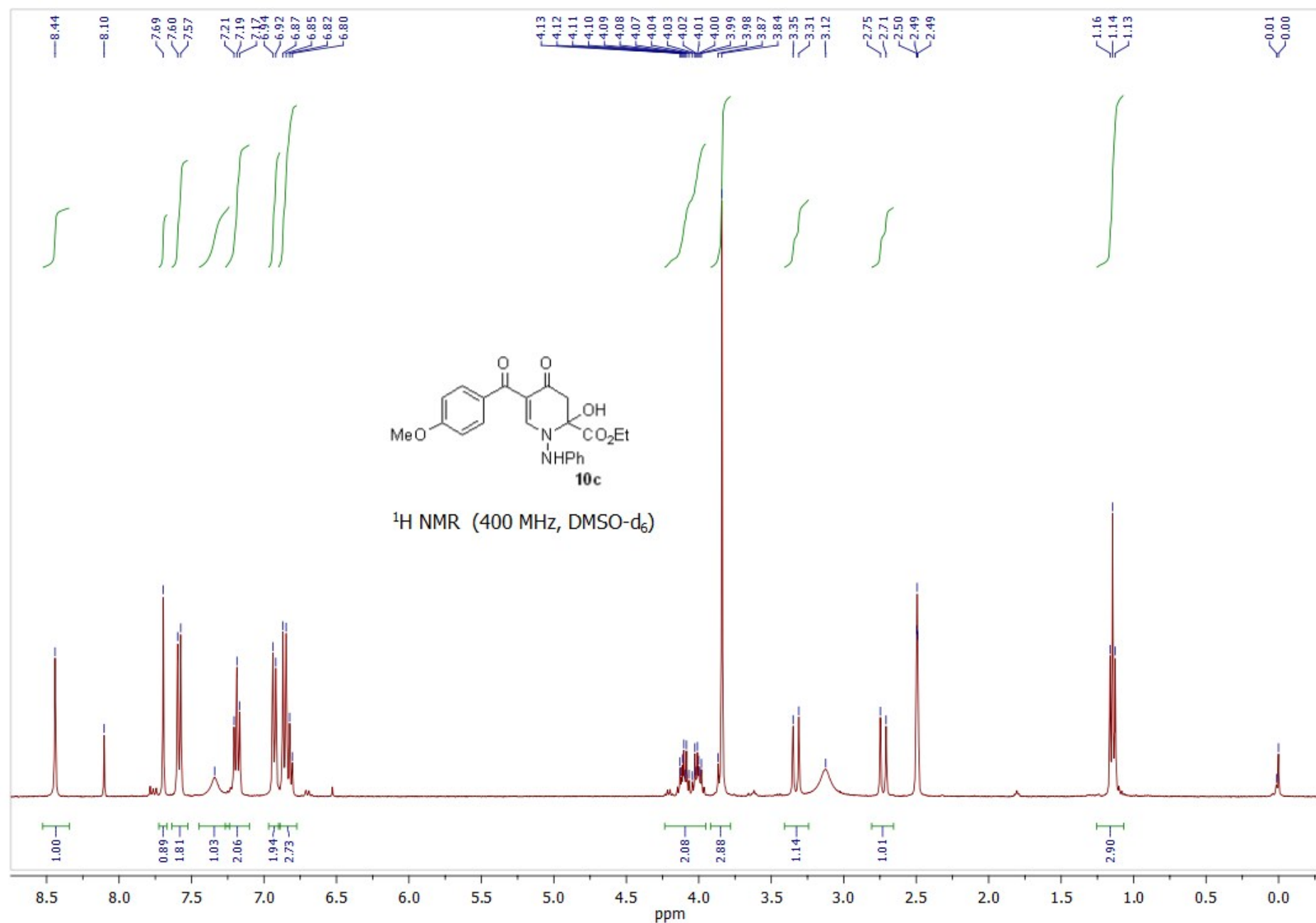


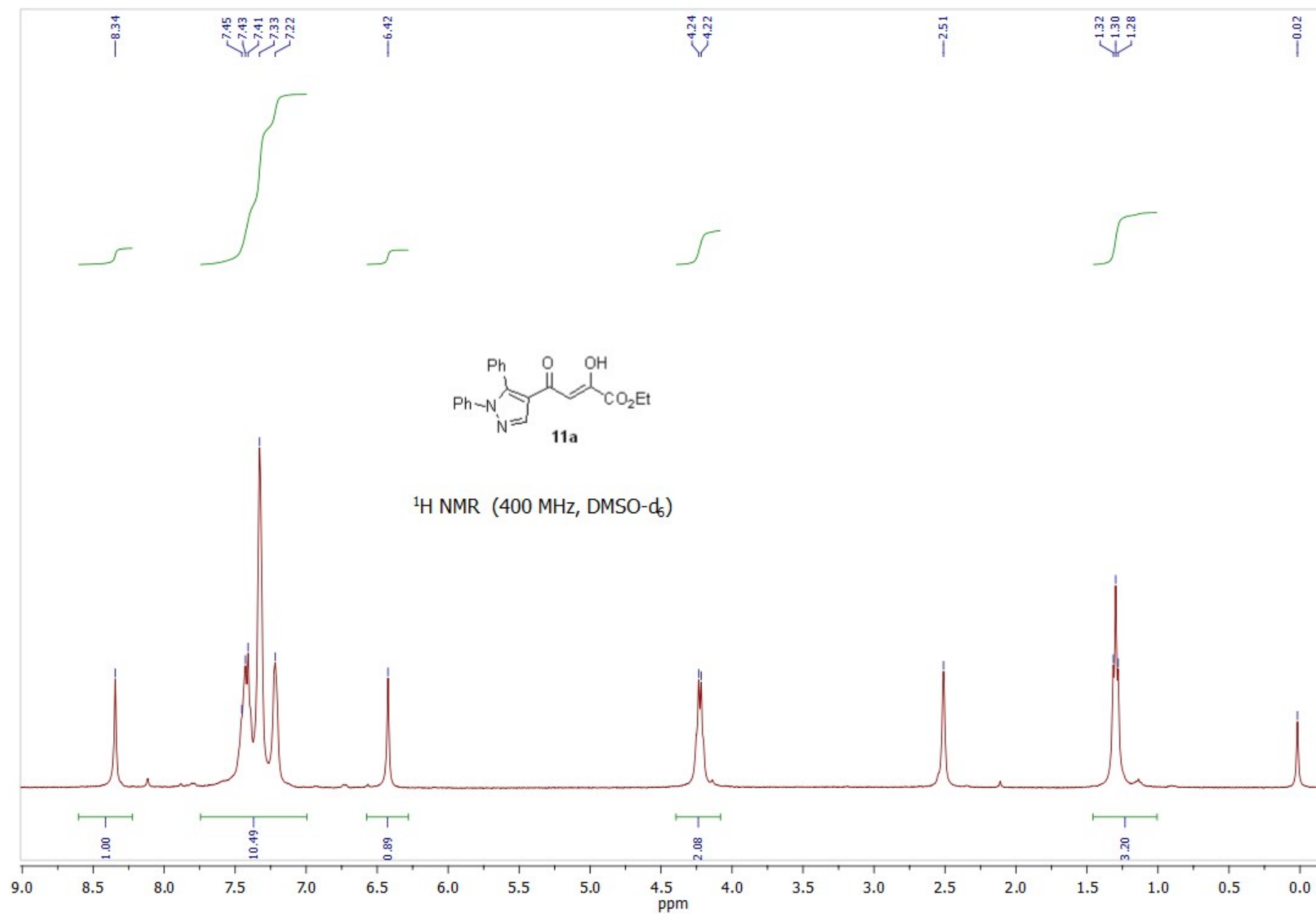


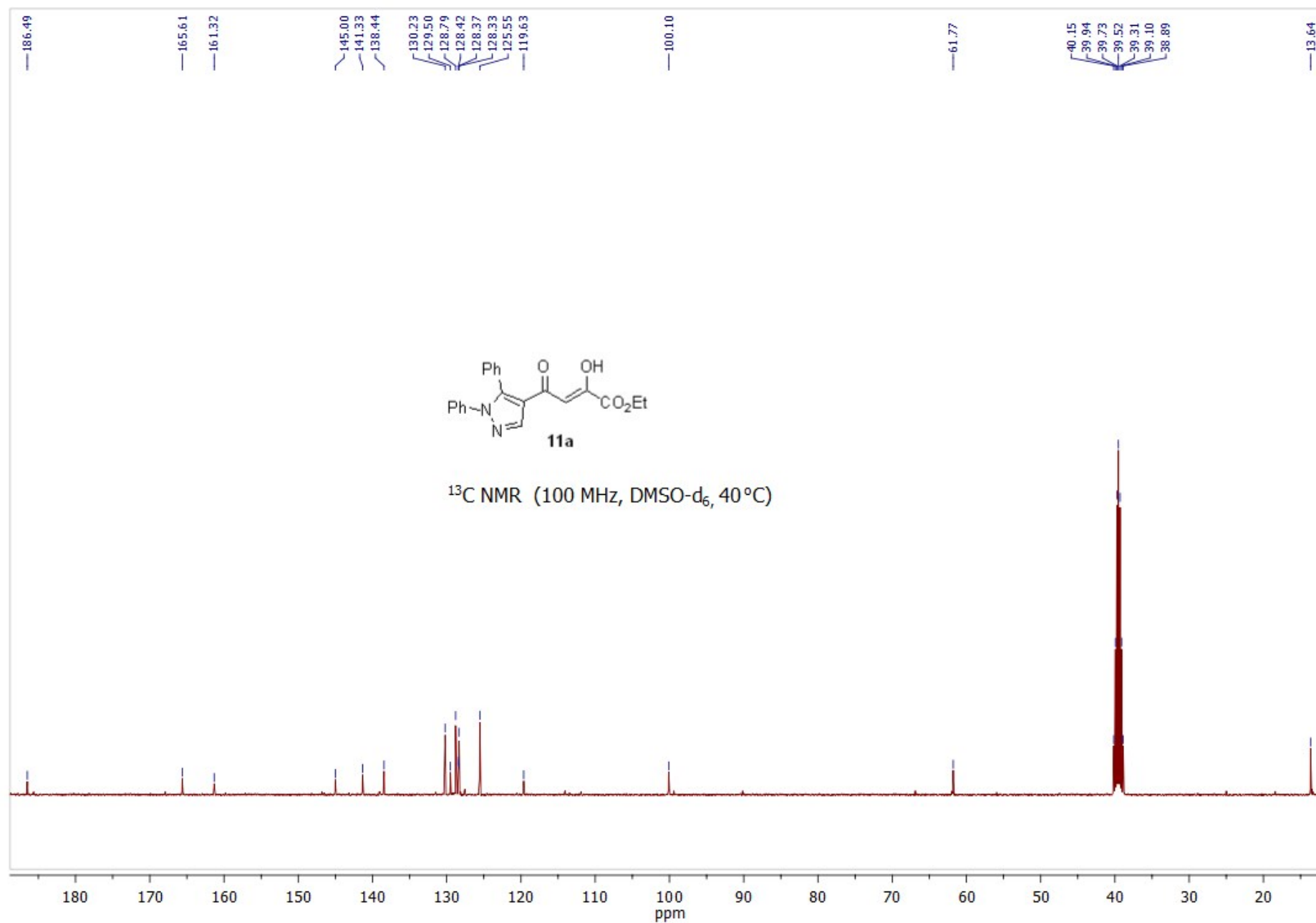


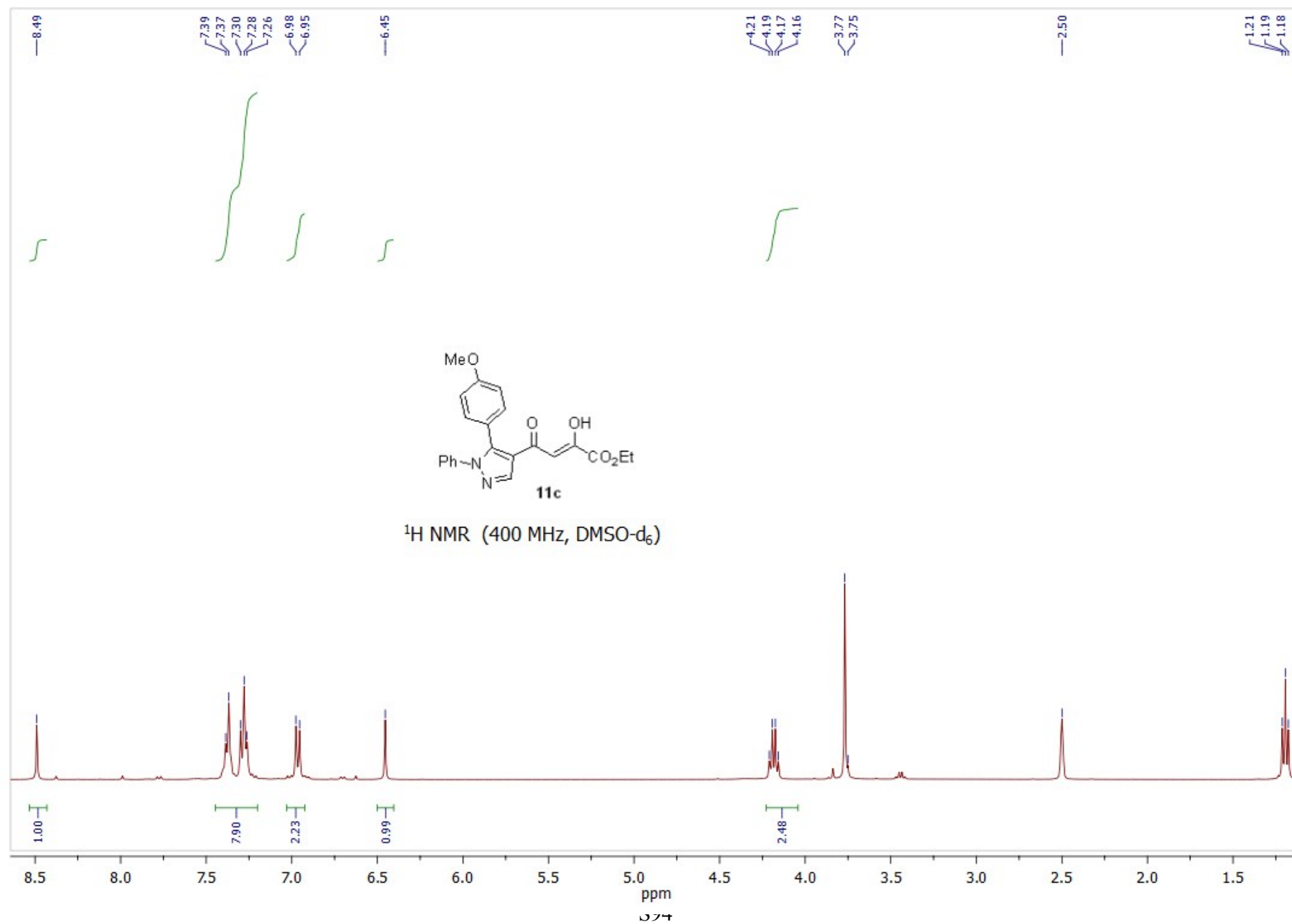


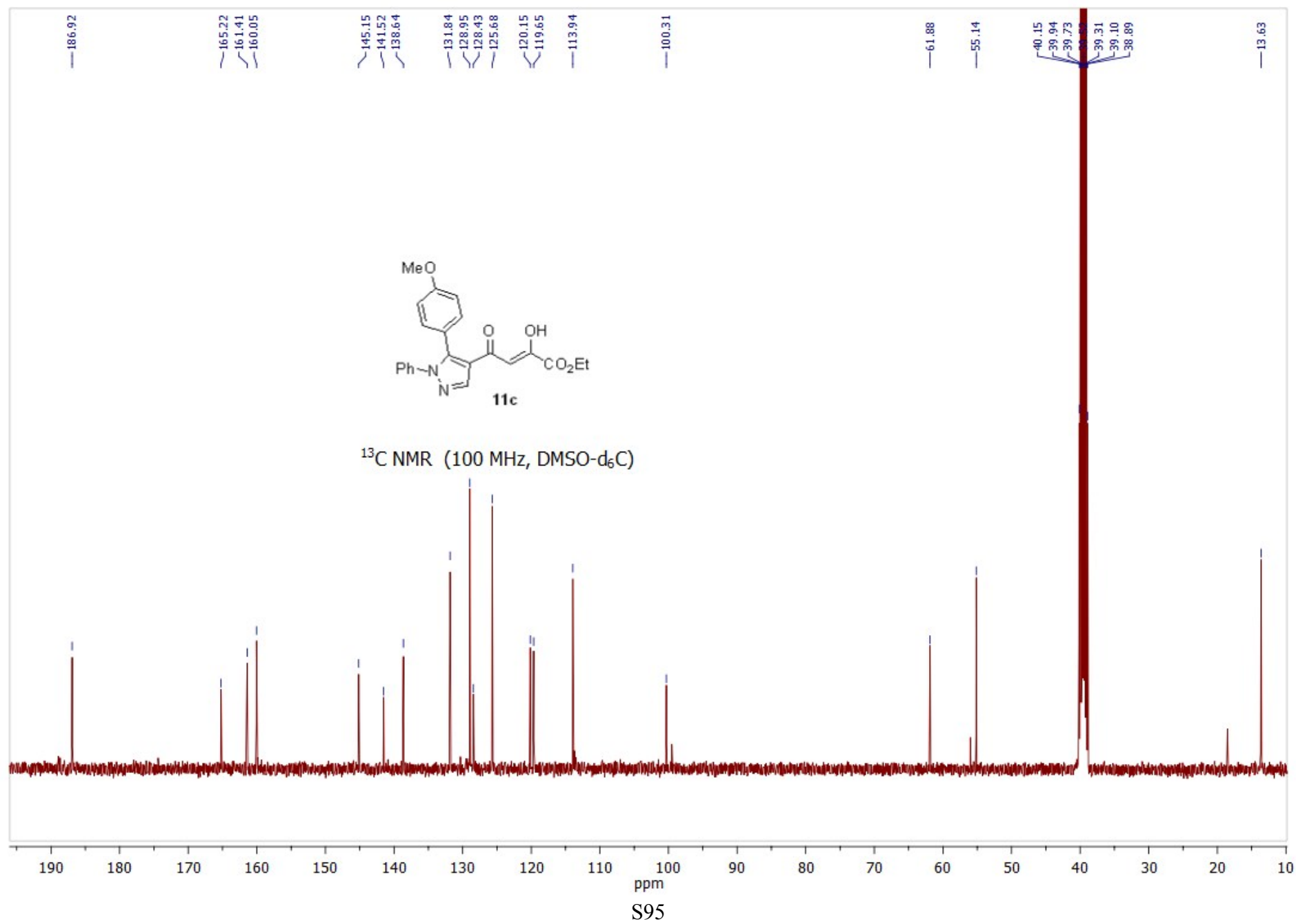


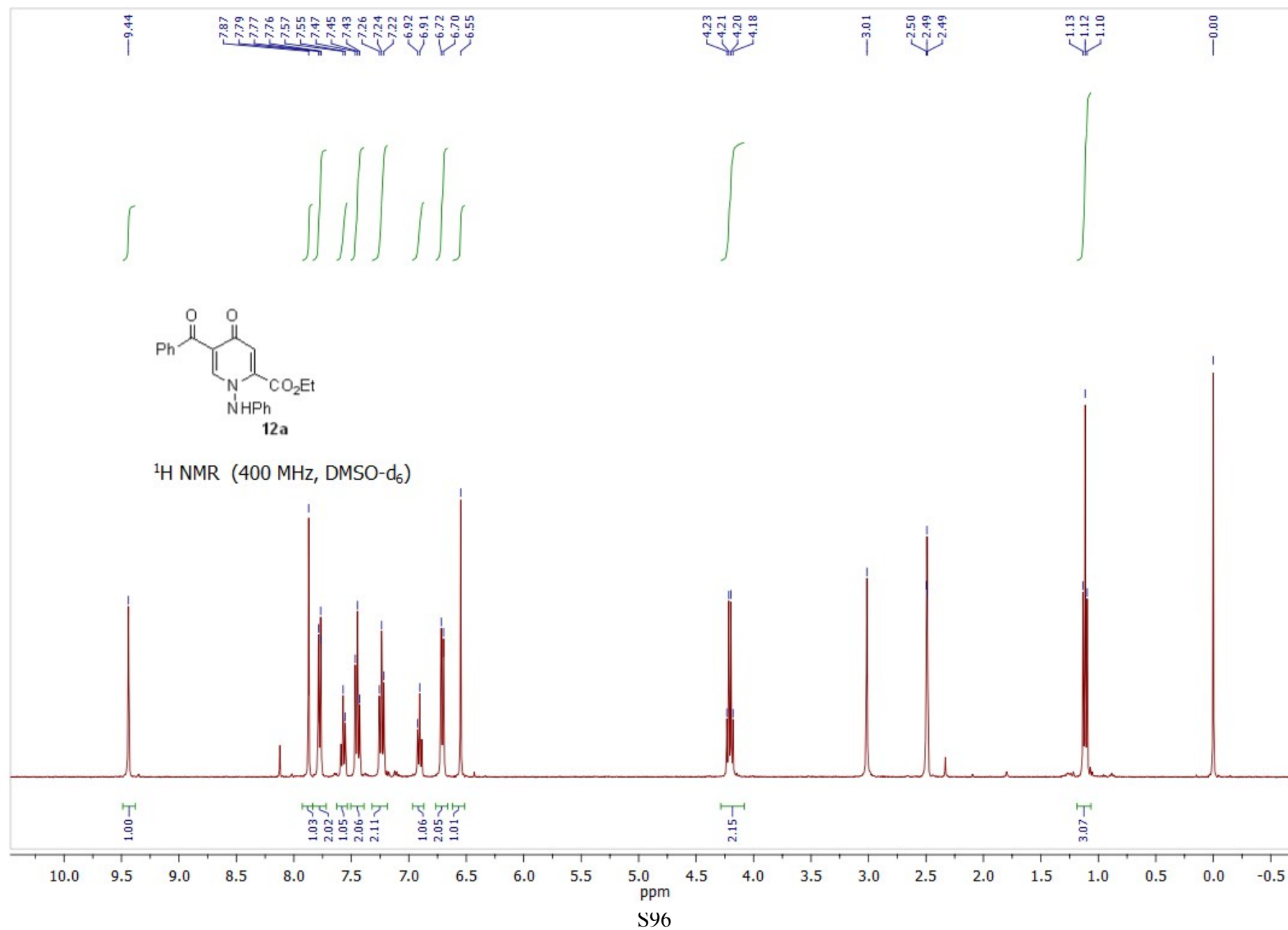


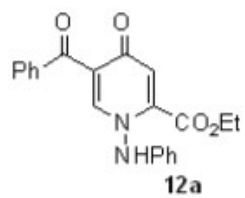












^{13}C NMR (100 MHz, DMSO- d_6 , 40°C)

