

New Coumarin-Chalcone-Triazole Hybrids as Promising Anti-Diabetic Agents: From Molecular Design to *In Vivo* Validation

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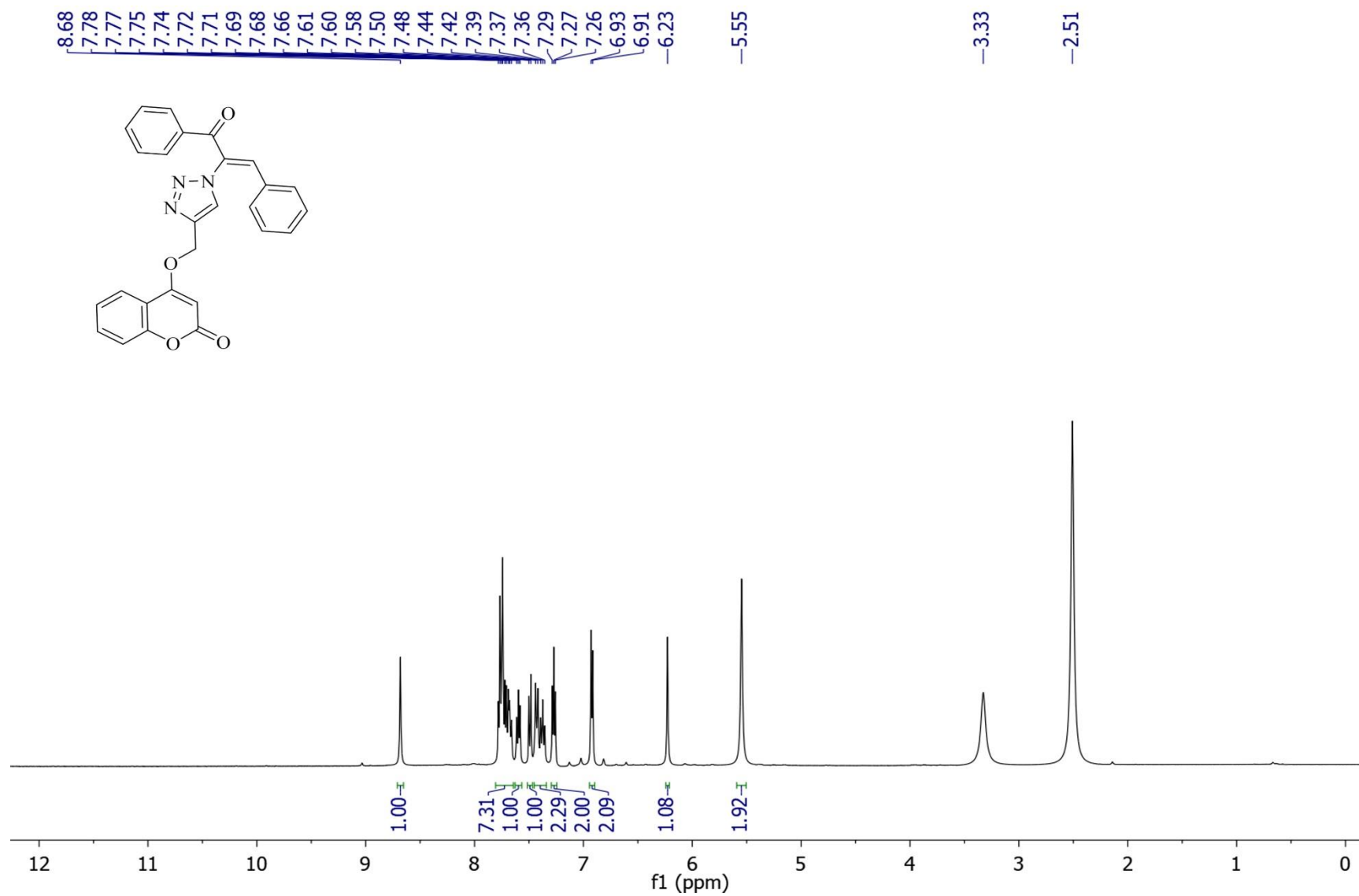
⁴ Eastern Mediterranean University, Faculty of Pharmacy, Famagusta, TRNC, via Mersin 10 Turkey

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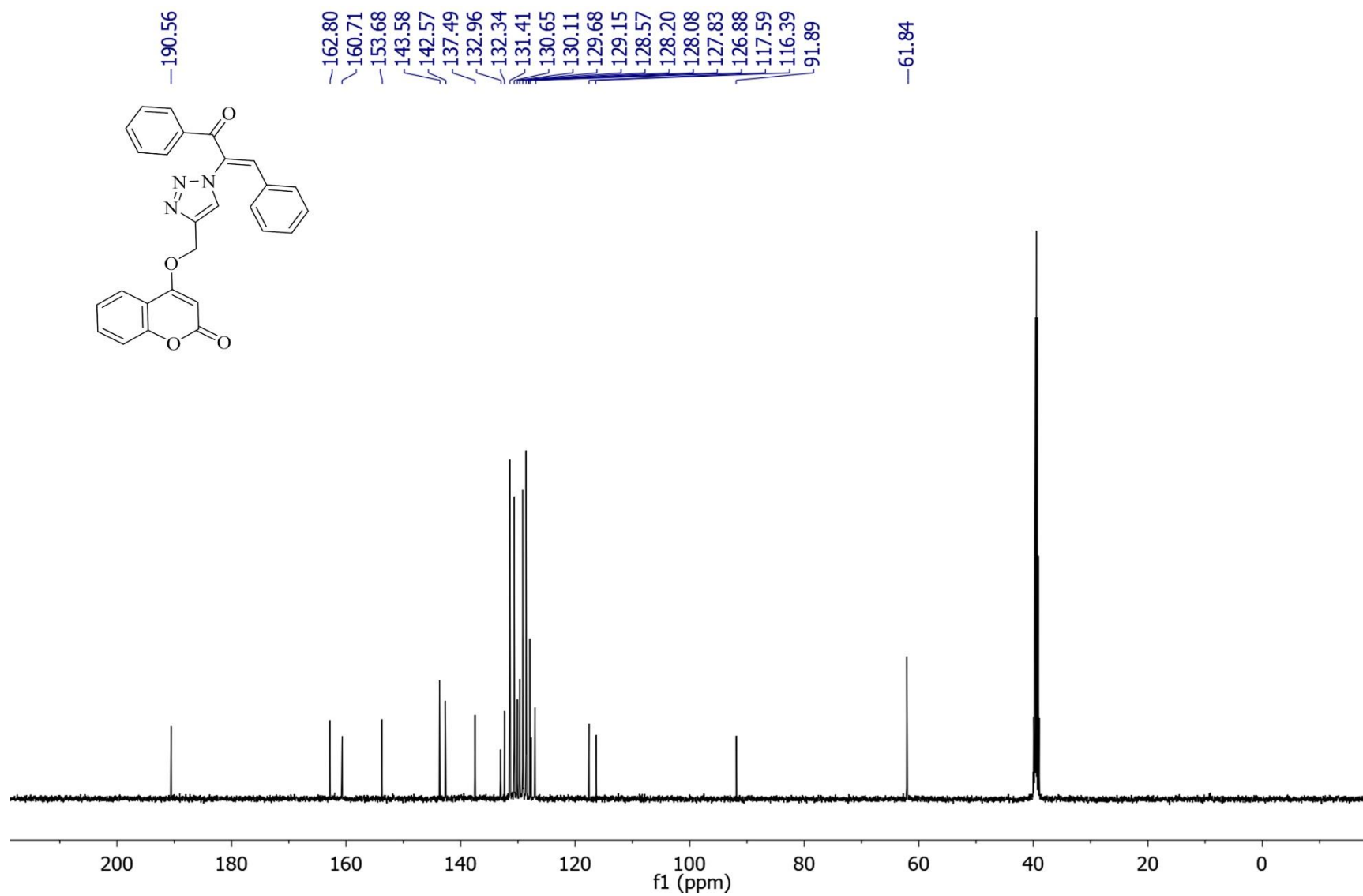
⁶ Department of Bioinformatics and Systems Biology, School of Advanced Technologies in Medicine, Isfahan University of Medical Sciences, Isfahan, Iran

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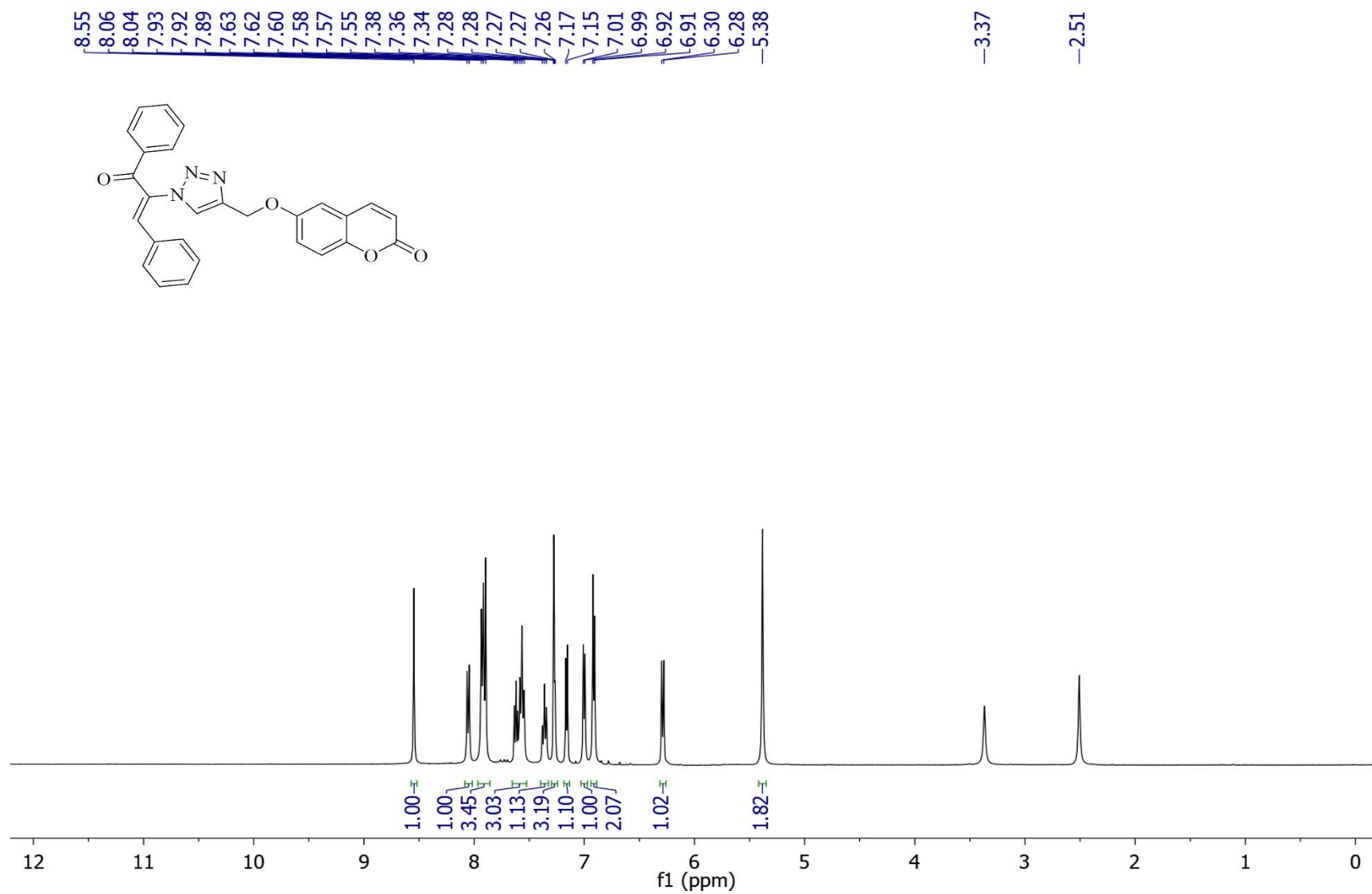
¹H NMR spectrum of 4-((1-(3-oxo-1,3-diphenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**17**)



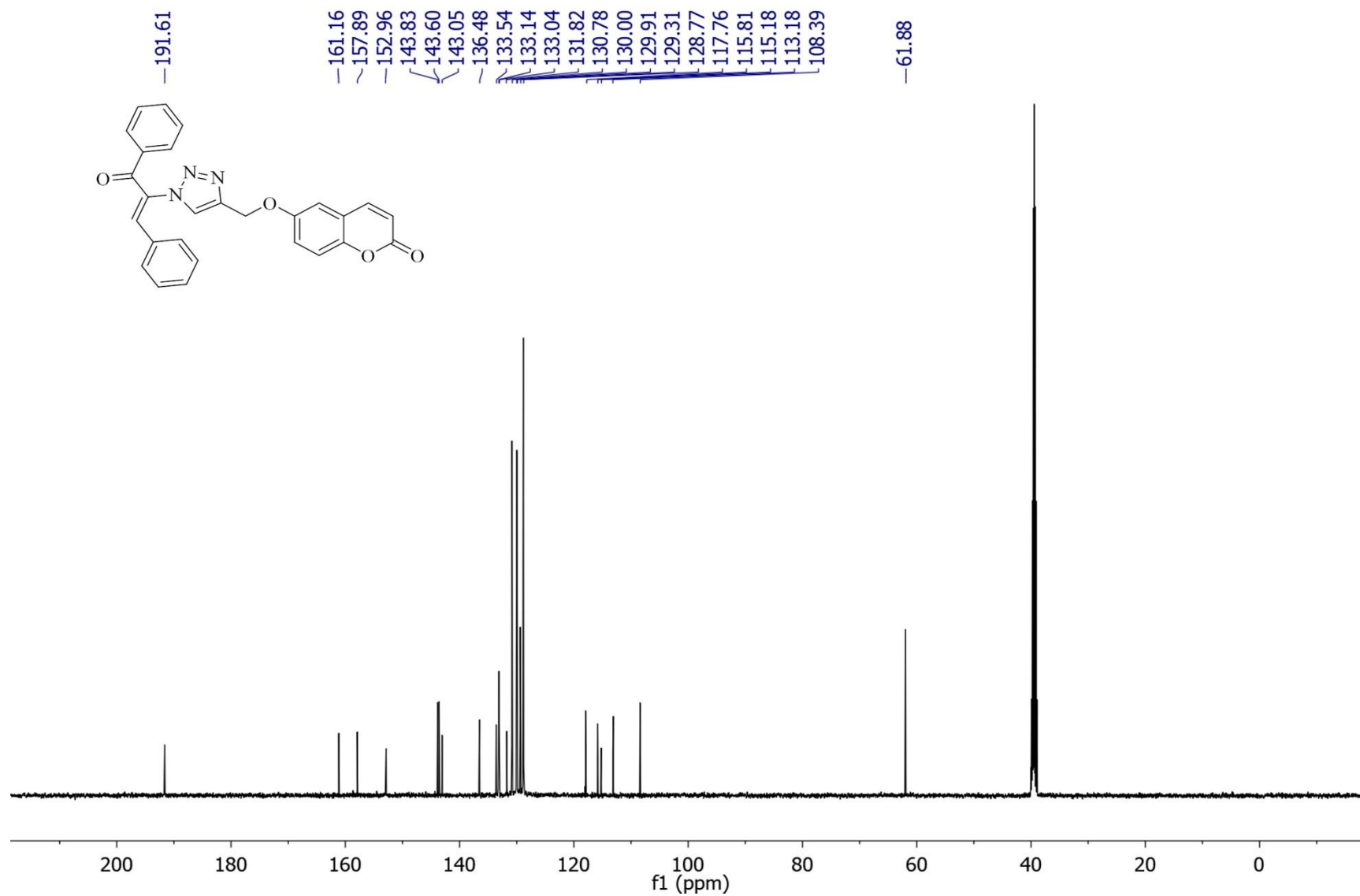
^{13}C NMR spectrum of 4-((1-(3-oxo-1,3-diphenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**17**)



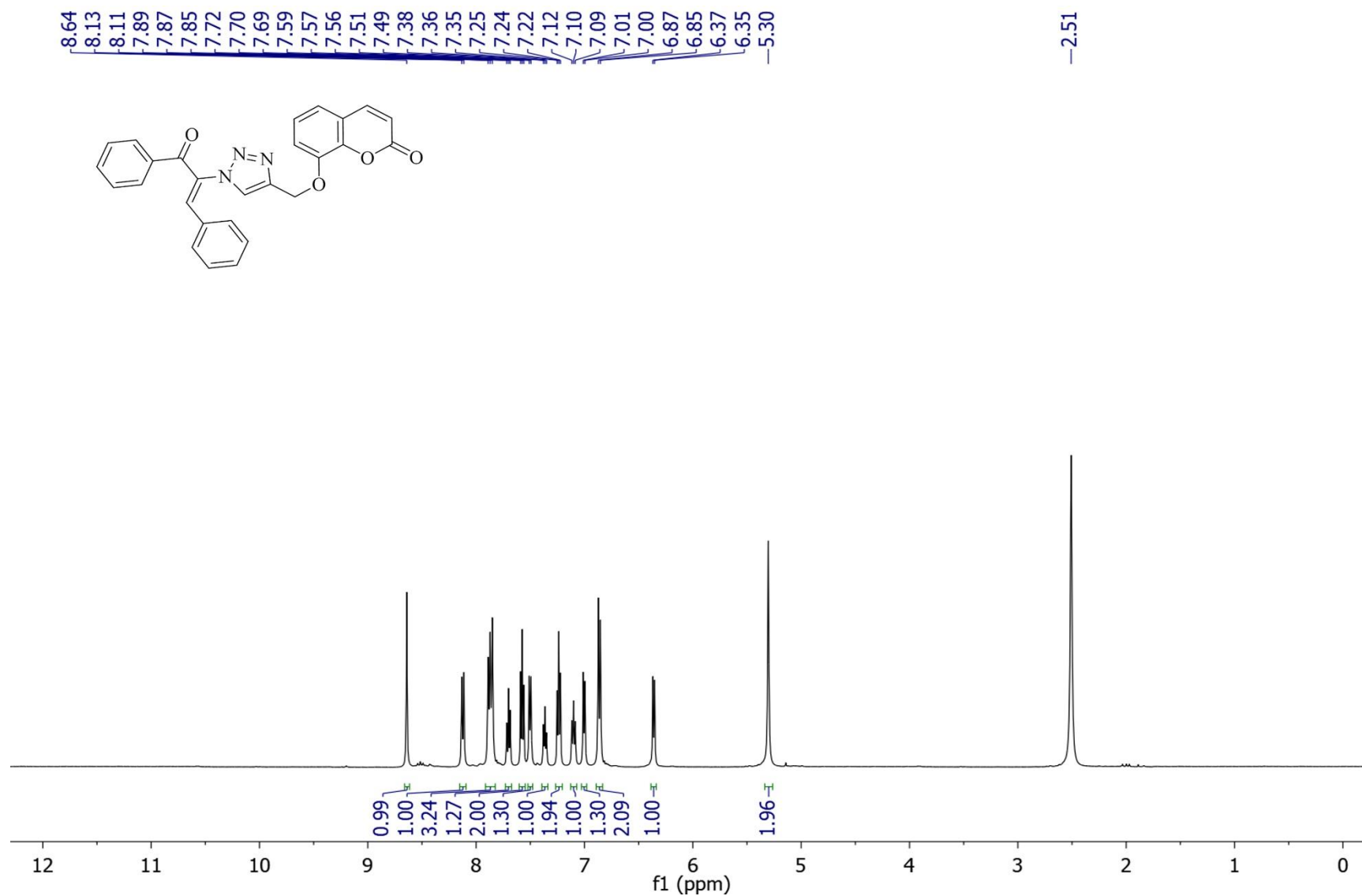
^1H NMR spectrum of 6-((1-(3-oxo-1,3-diphenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**18**)



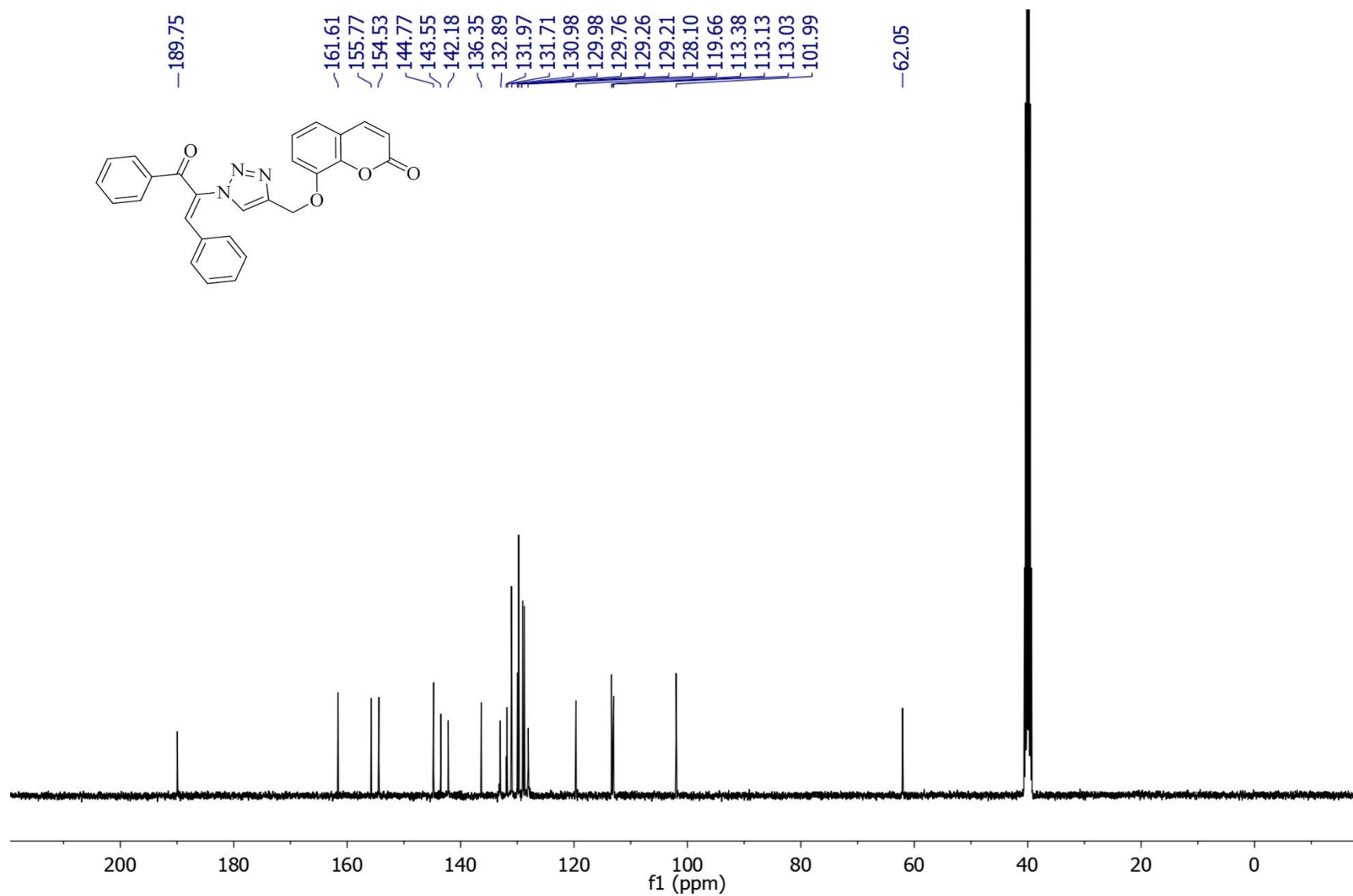
^{13}C NMR spectrum of 6-((1-(3-oxo-1,3-diphenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**18**)



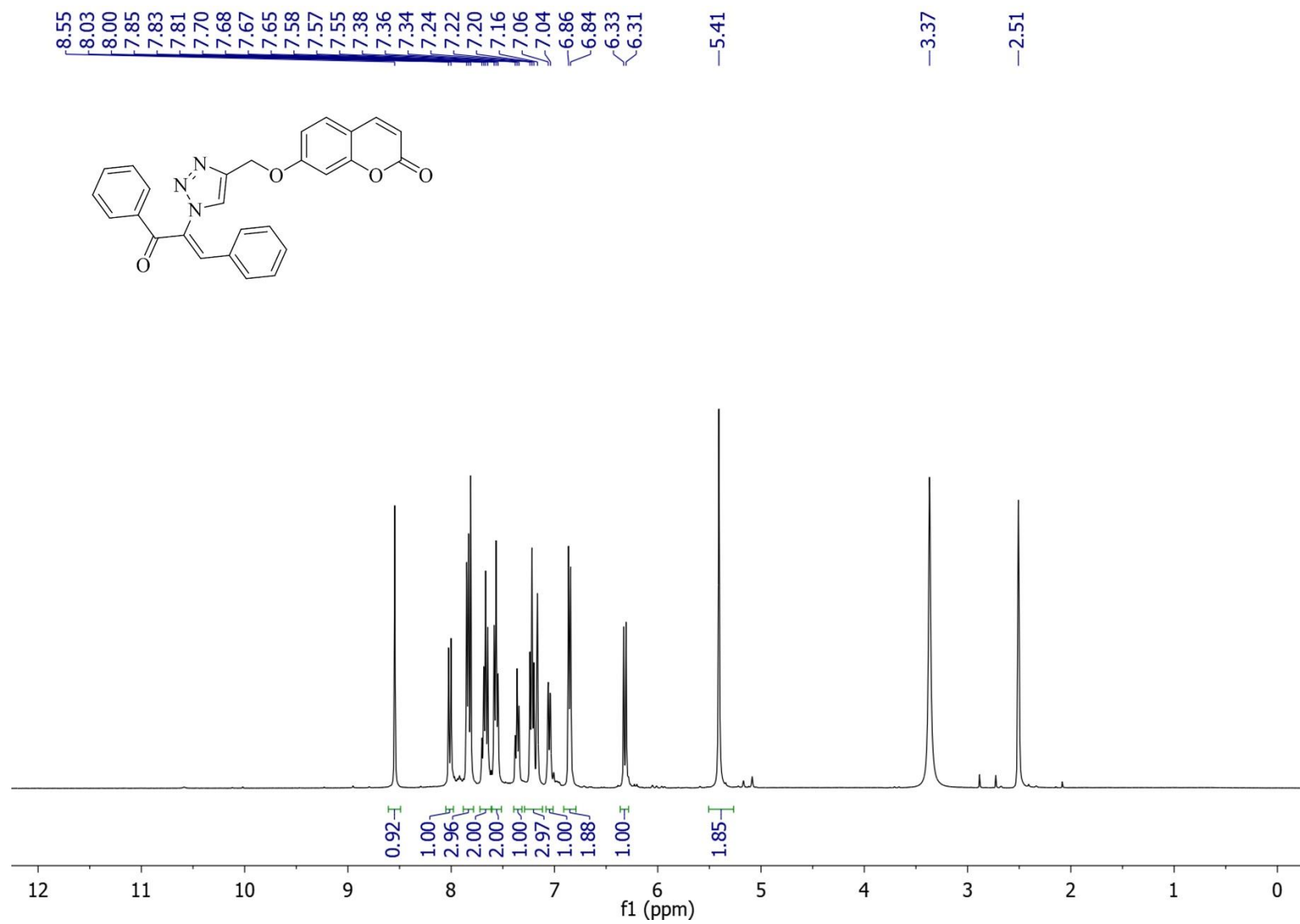
¹H NMR spectrum of 8-((1-(3-oxo-1,3-diphenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**19**)



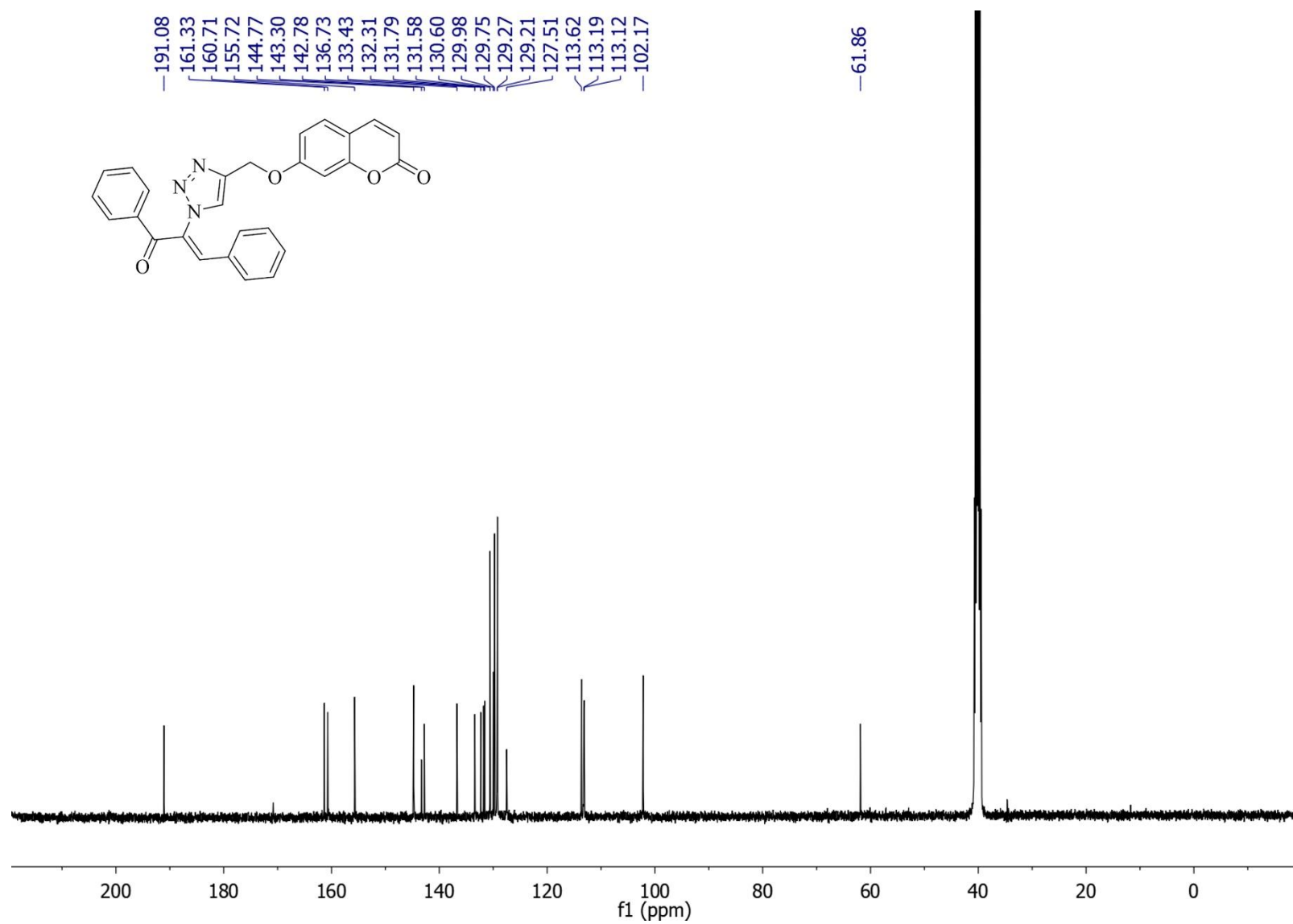
^{13}C NMR spectrum of 6-((1-(3-oxo-1,3-diphenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**19**)



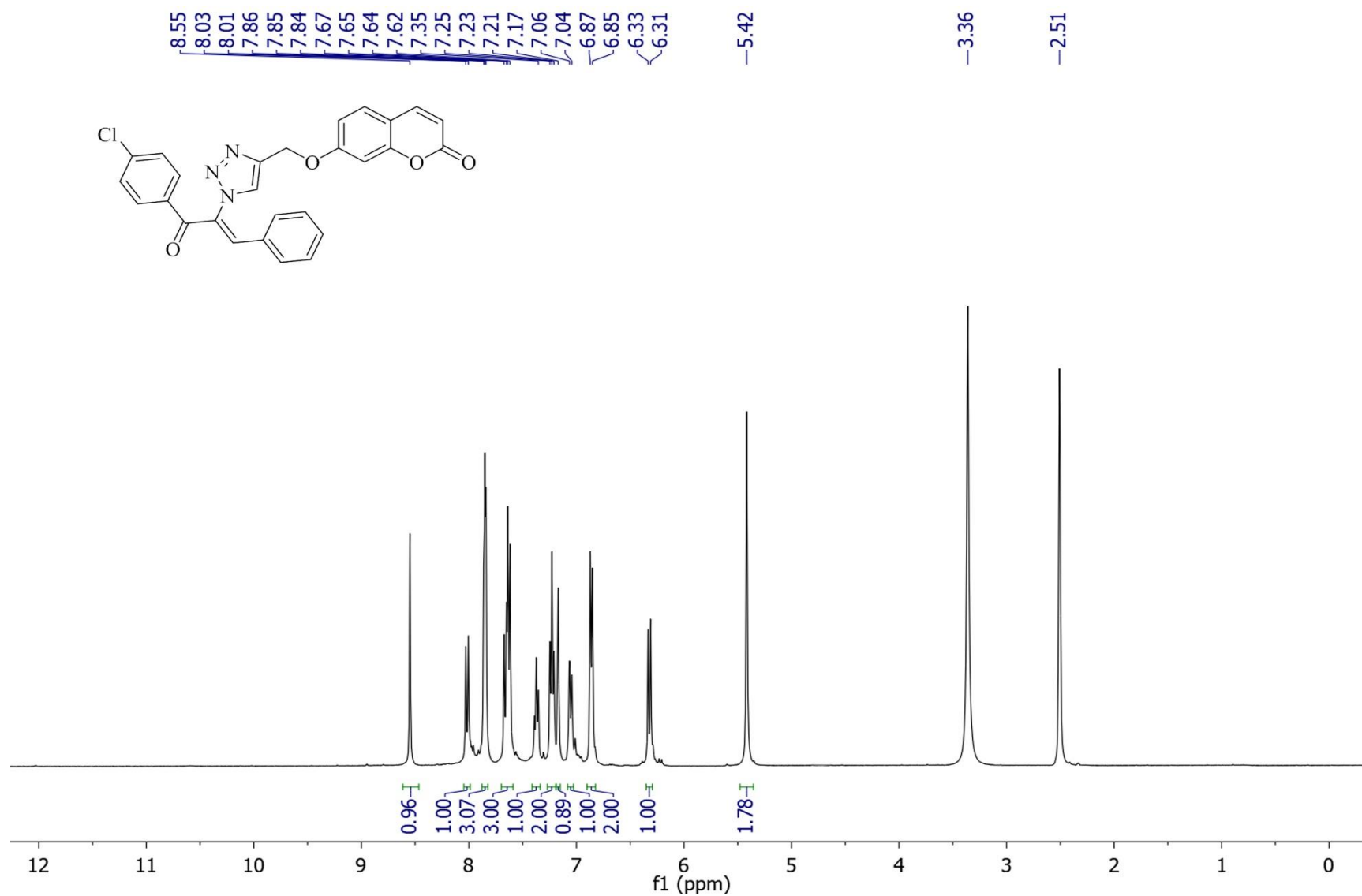
¹H NMR spectrum of 7-((1-(3-oxo-1,3-diphenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20a**)

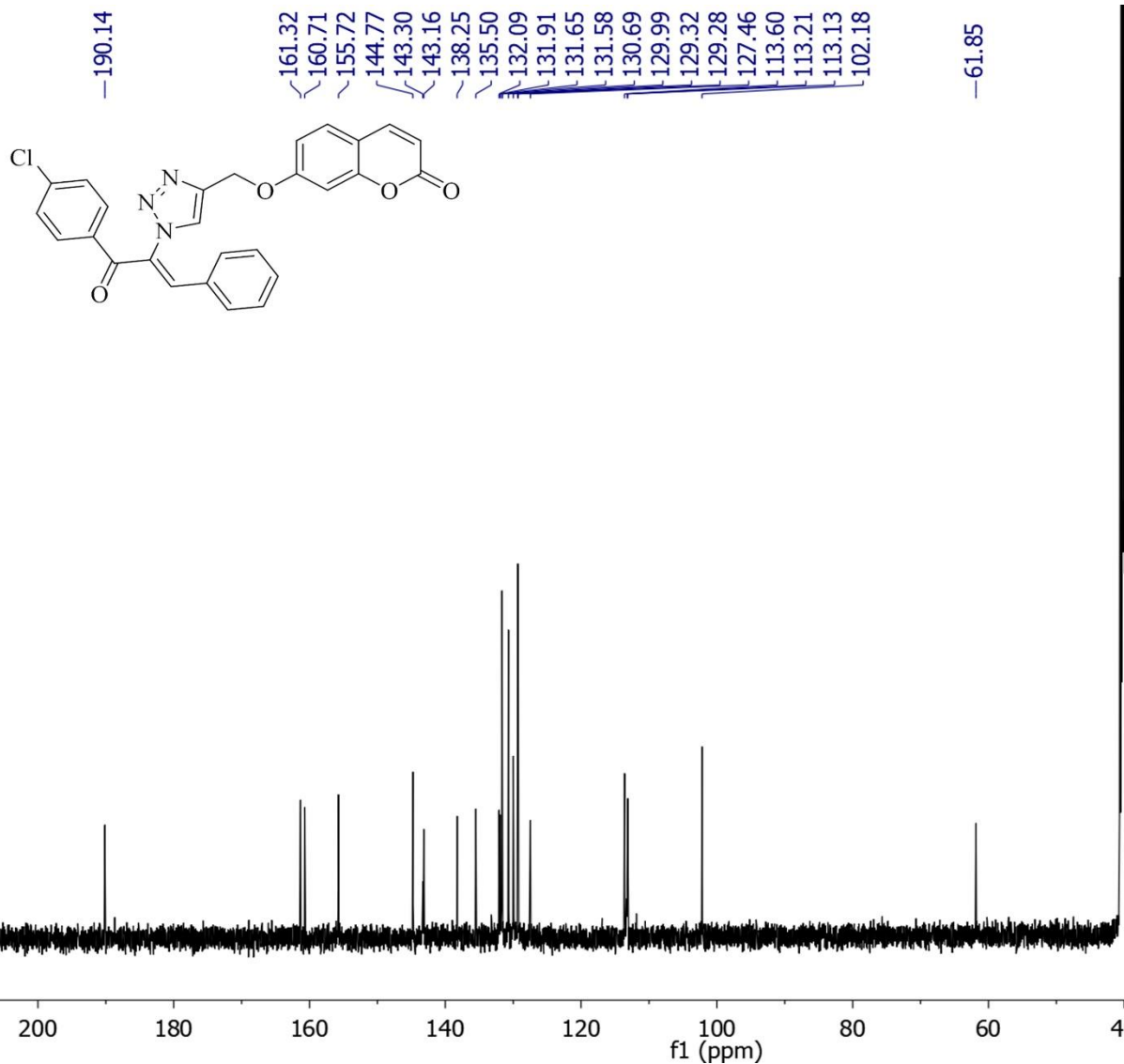


^{13}C NMR spectrum of 7-((1-(3-oxo-1,3-diphenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20a**)

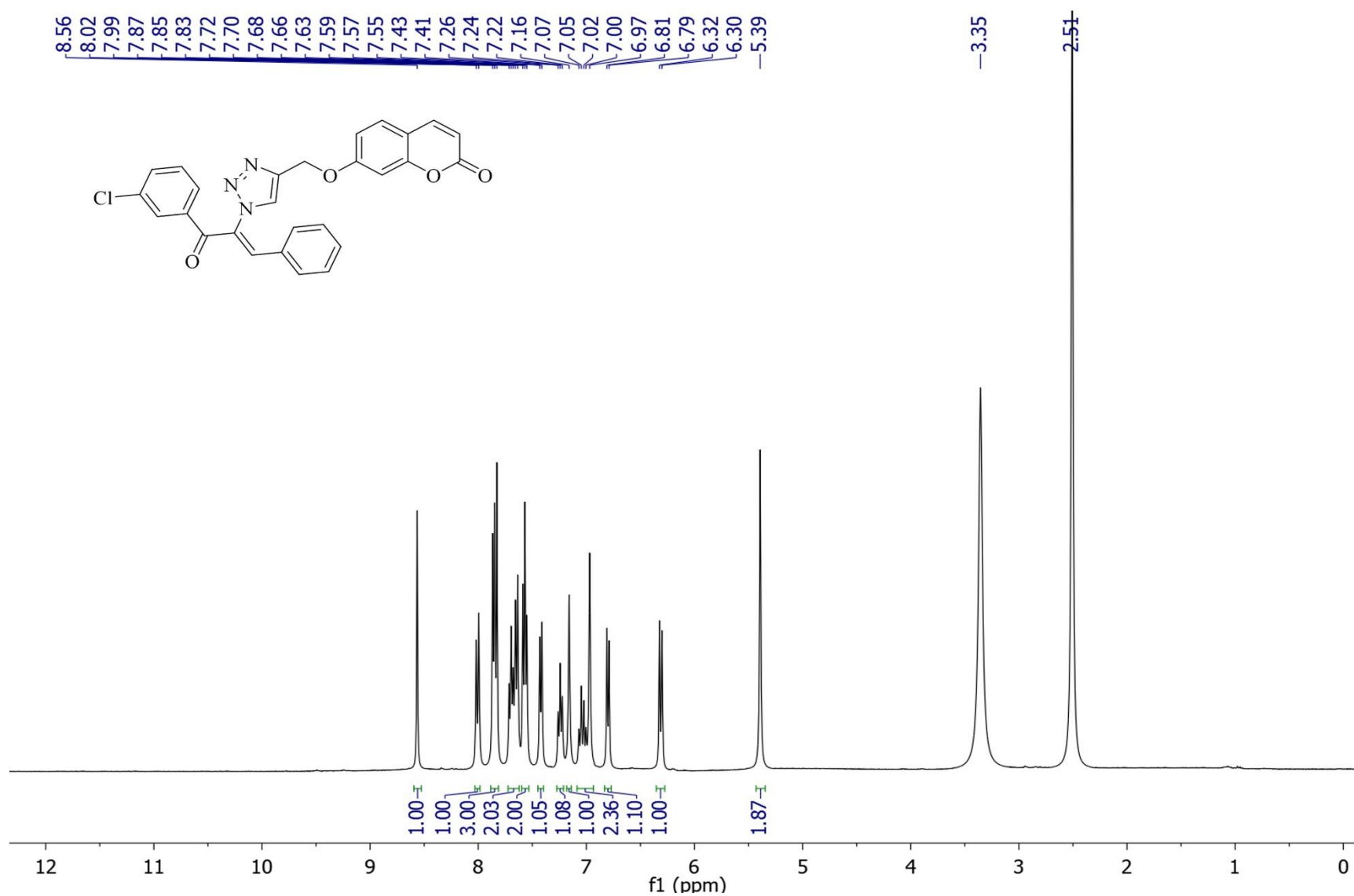


¹H NMR spectrum of 7-((1-(3-(4-chlorophenyl)-3-oxo-1-phenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20b**)

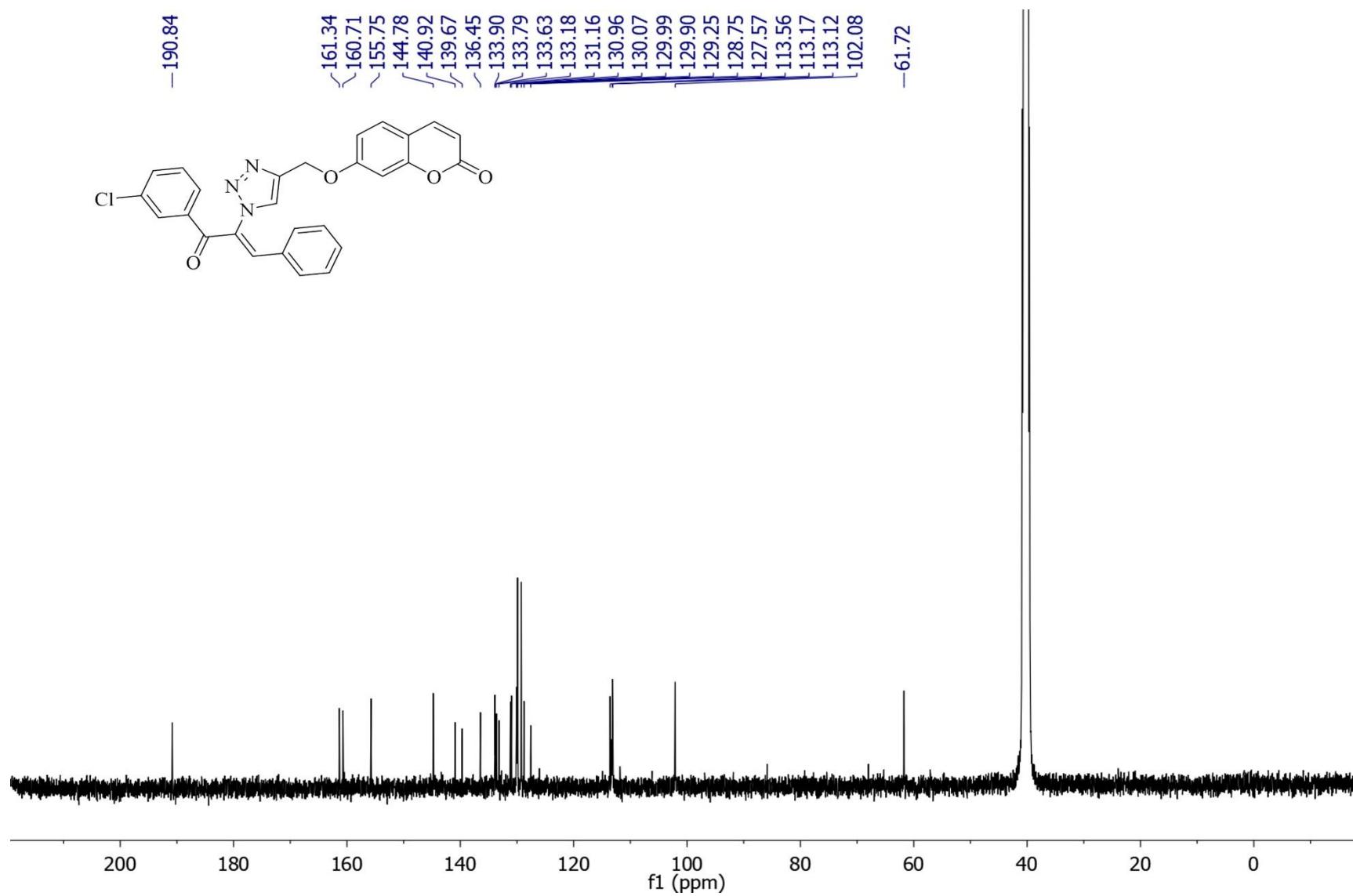


¹³C NMR spectrum of 7-((1-(3-(4-chlorophenyl)-3-oxo-1-phenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20b**)

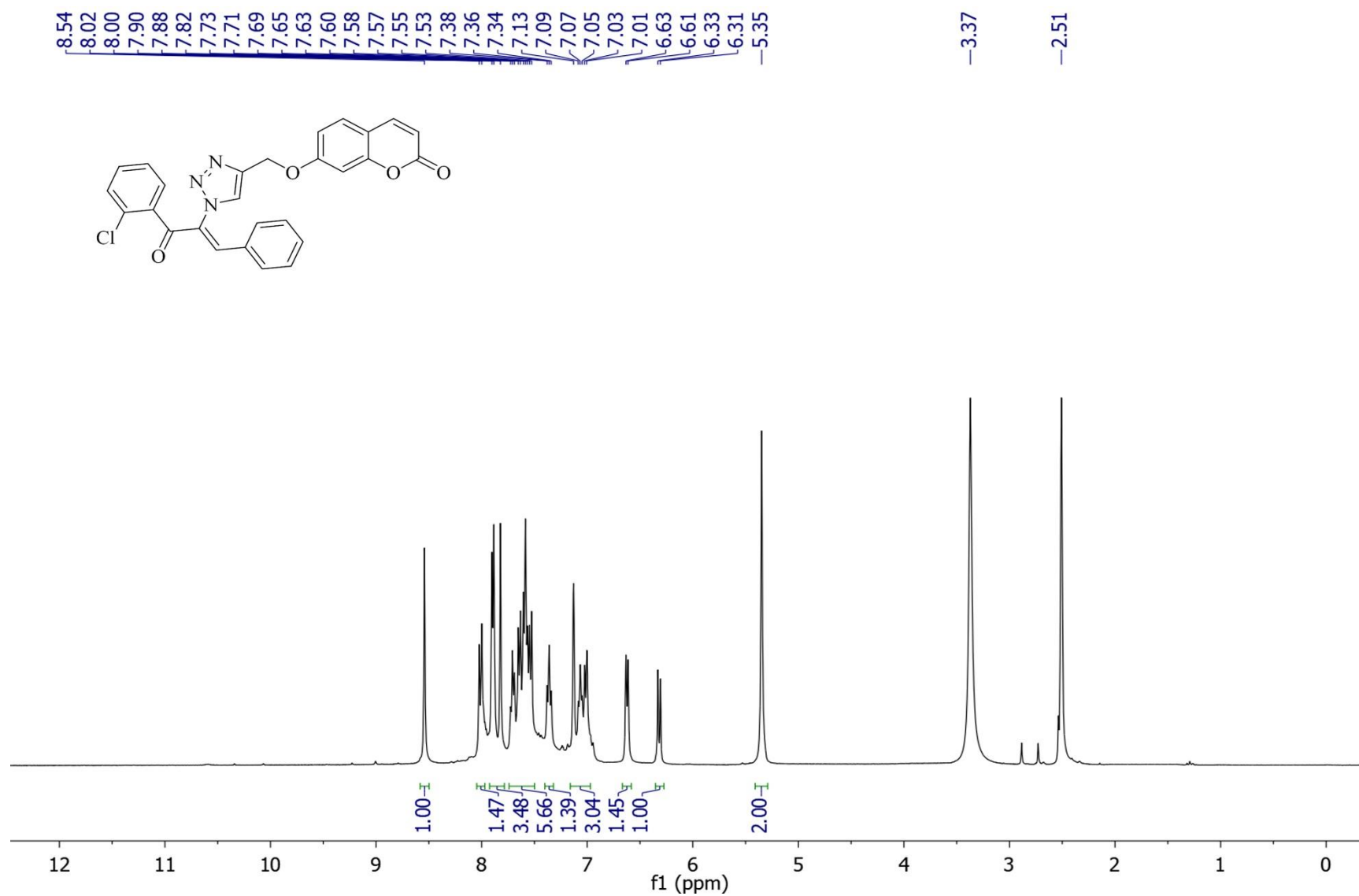
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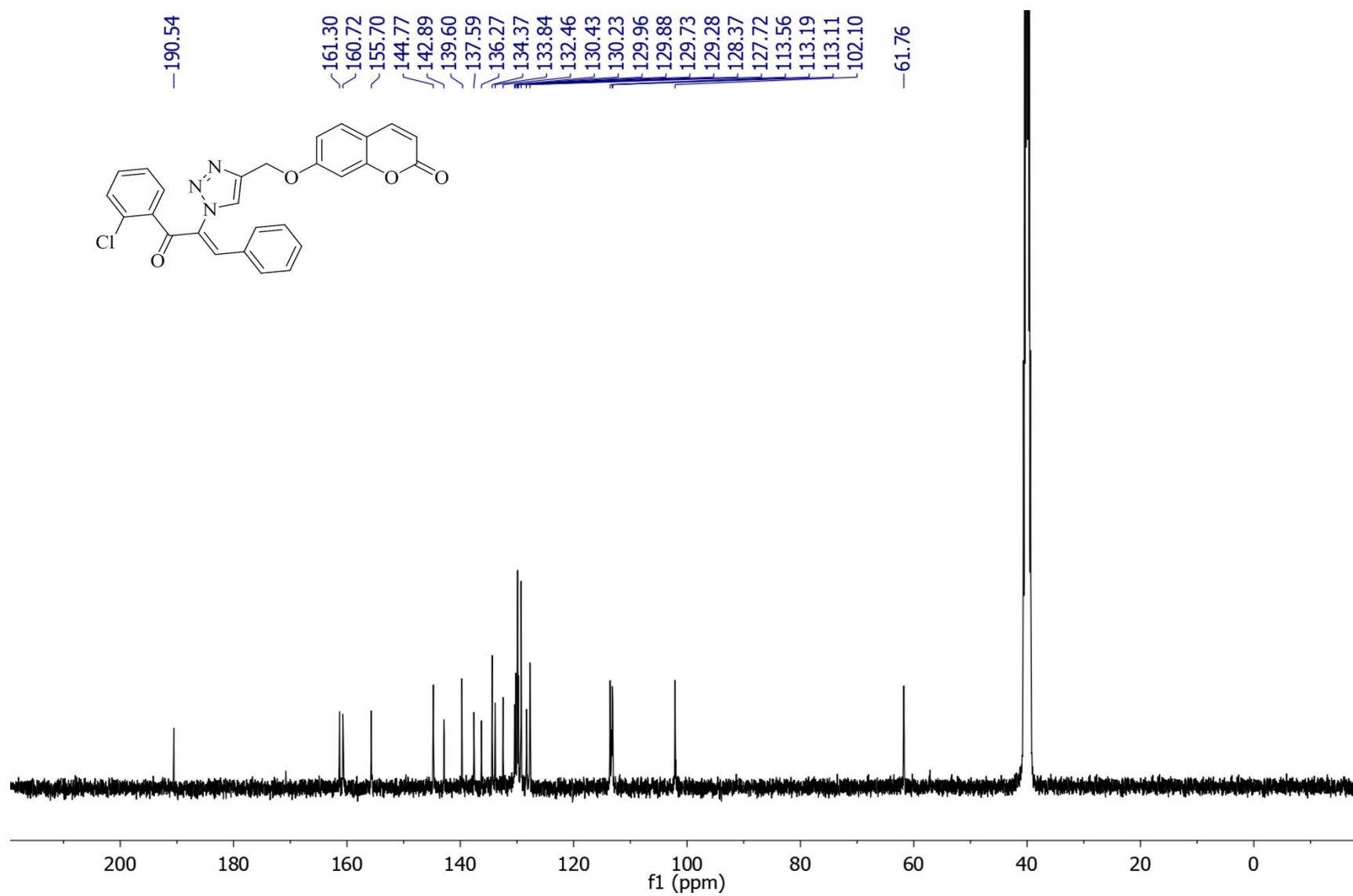
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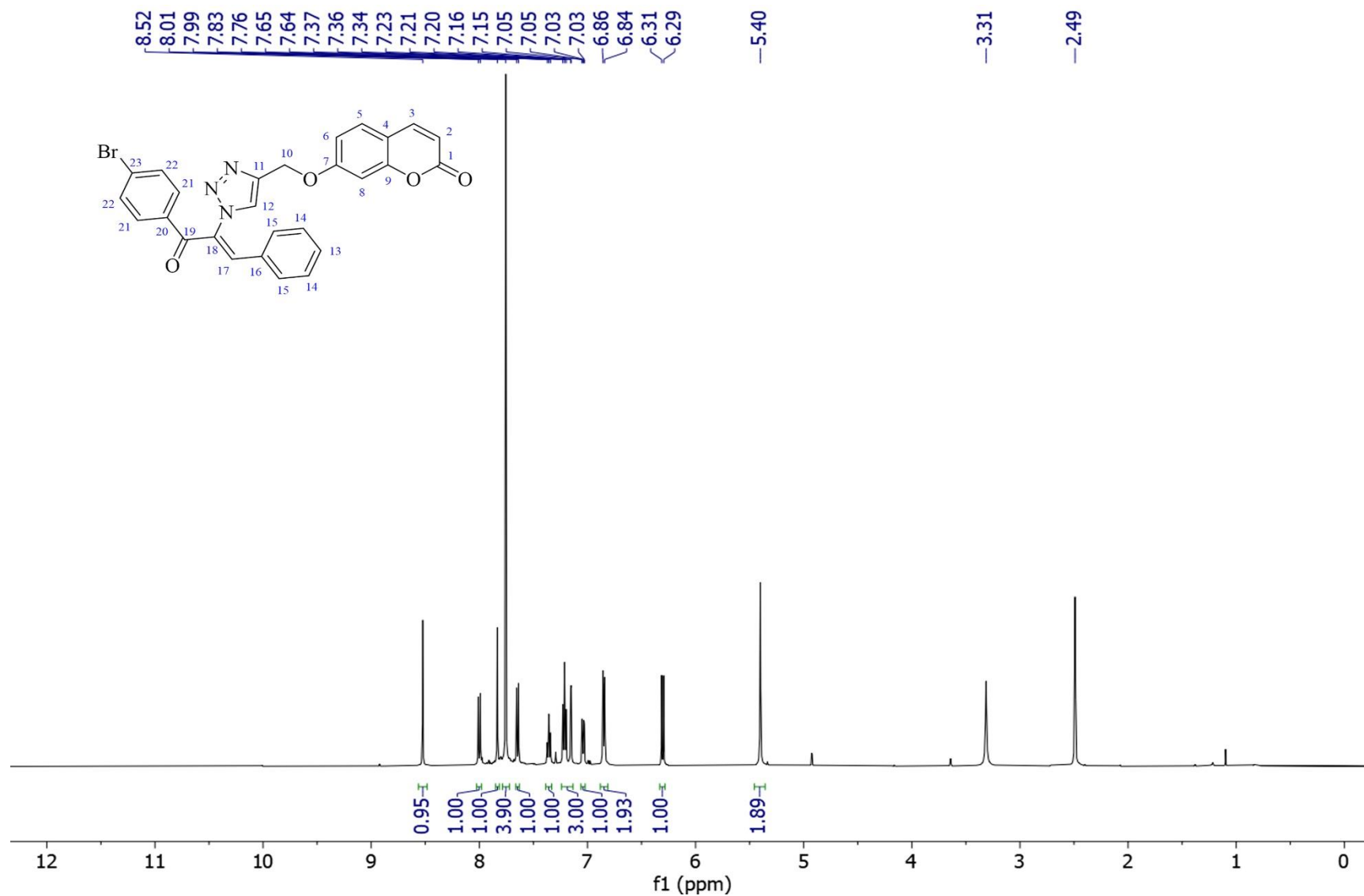
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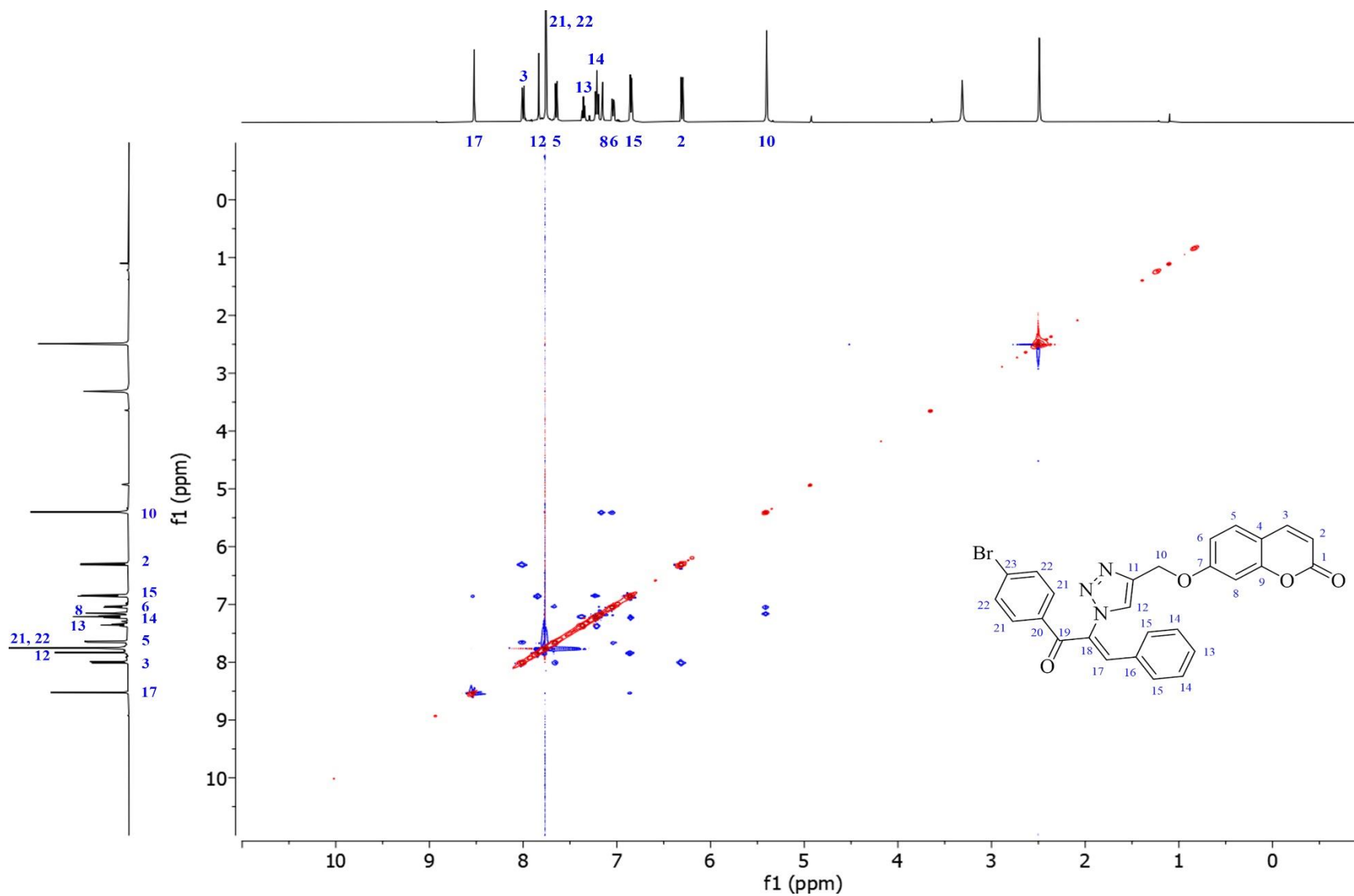
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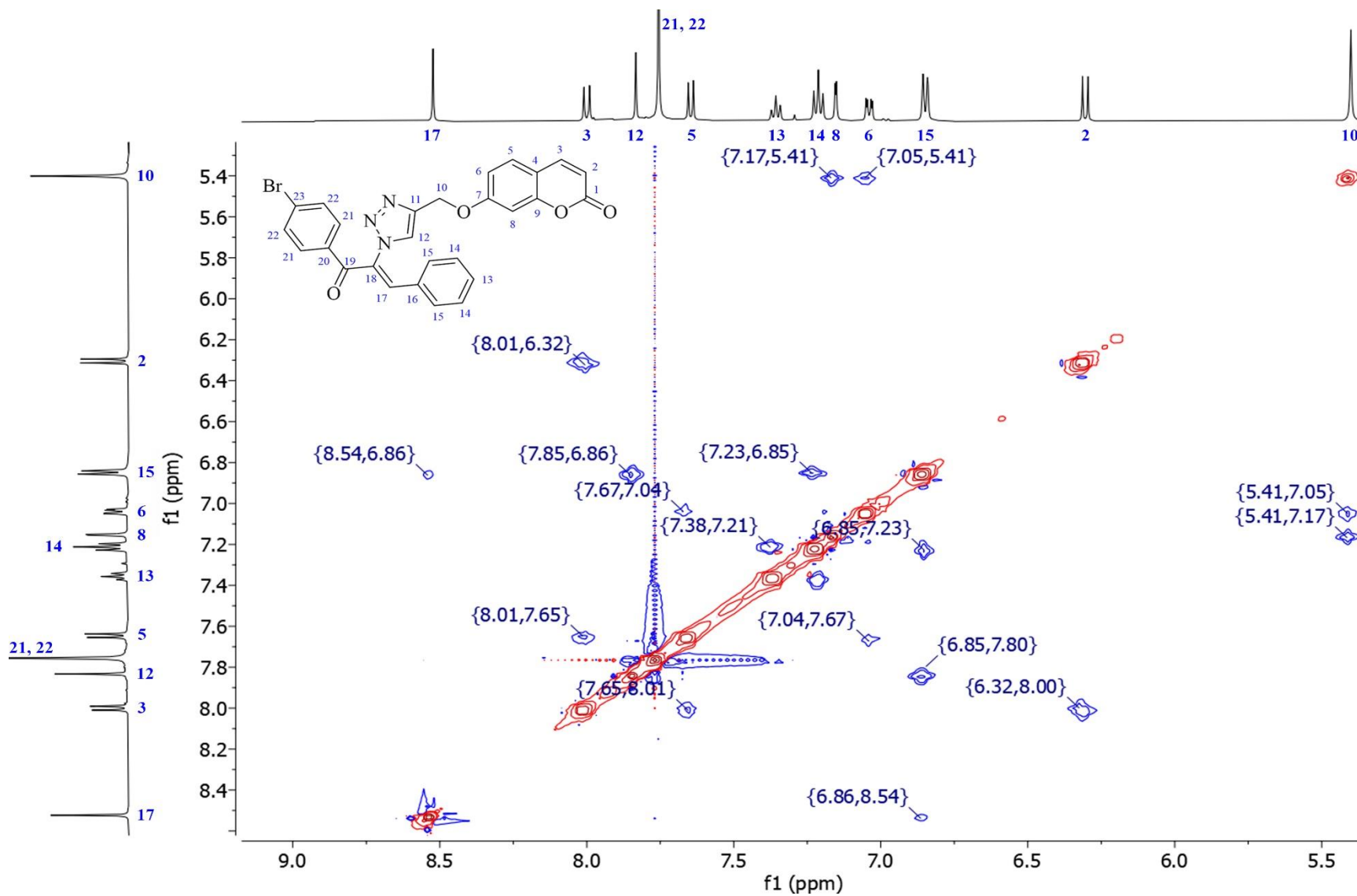
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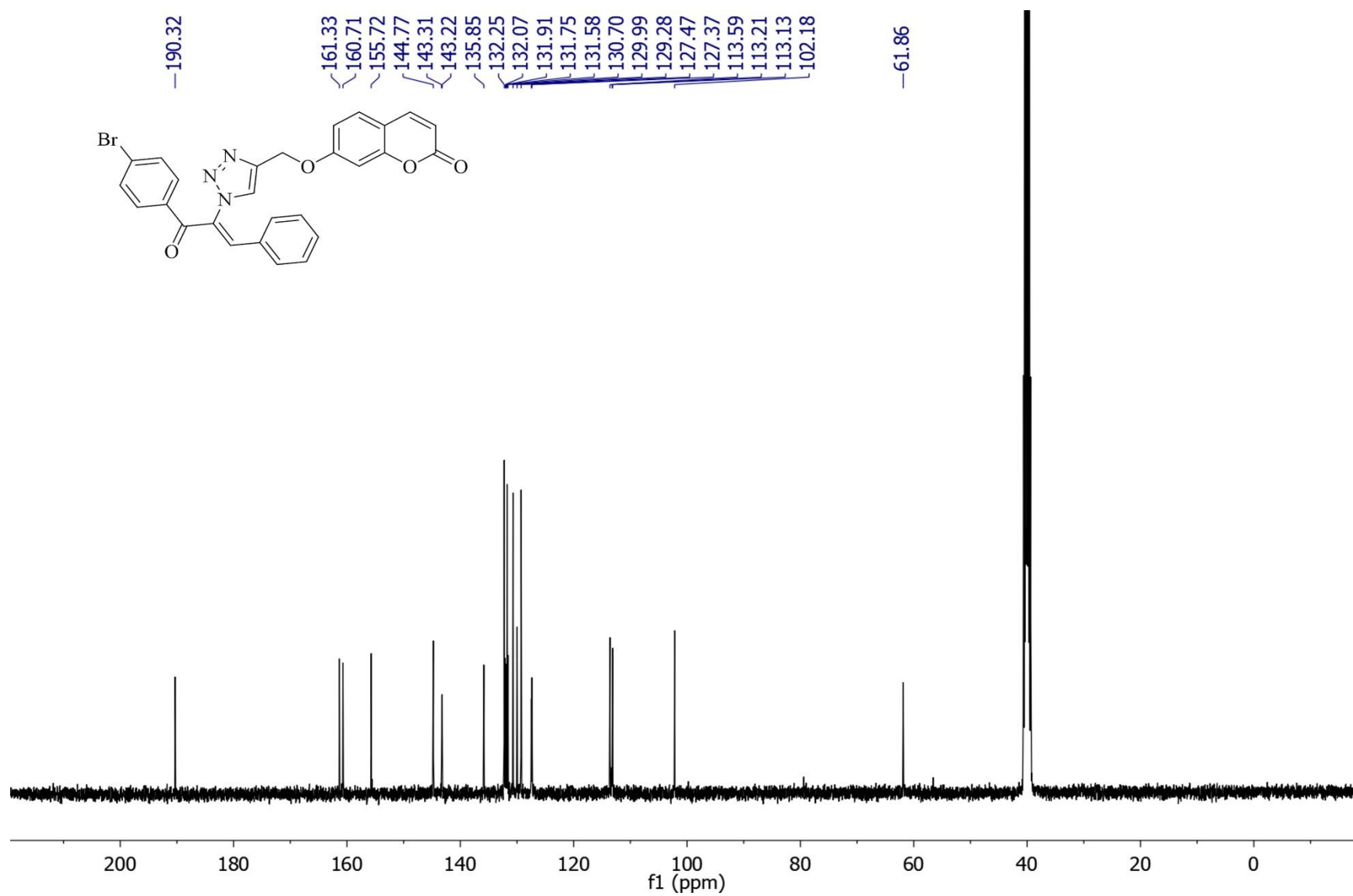


2D NMR spectrum of 7-((1-(3-(4-bromophenyl)-3-oxo-1-phenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20e**)

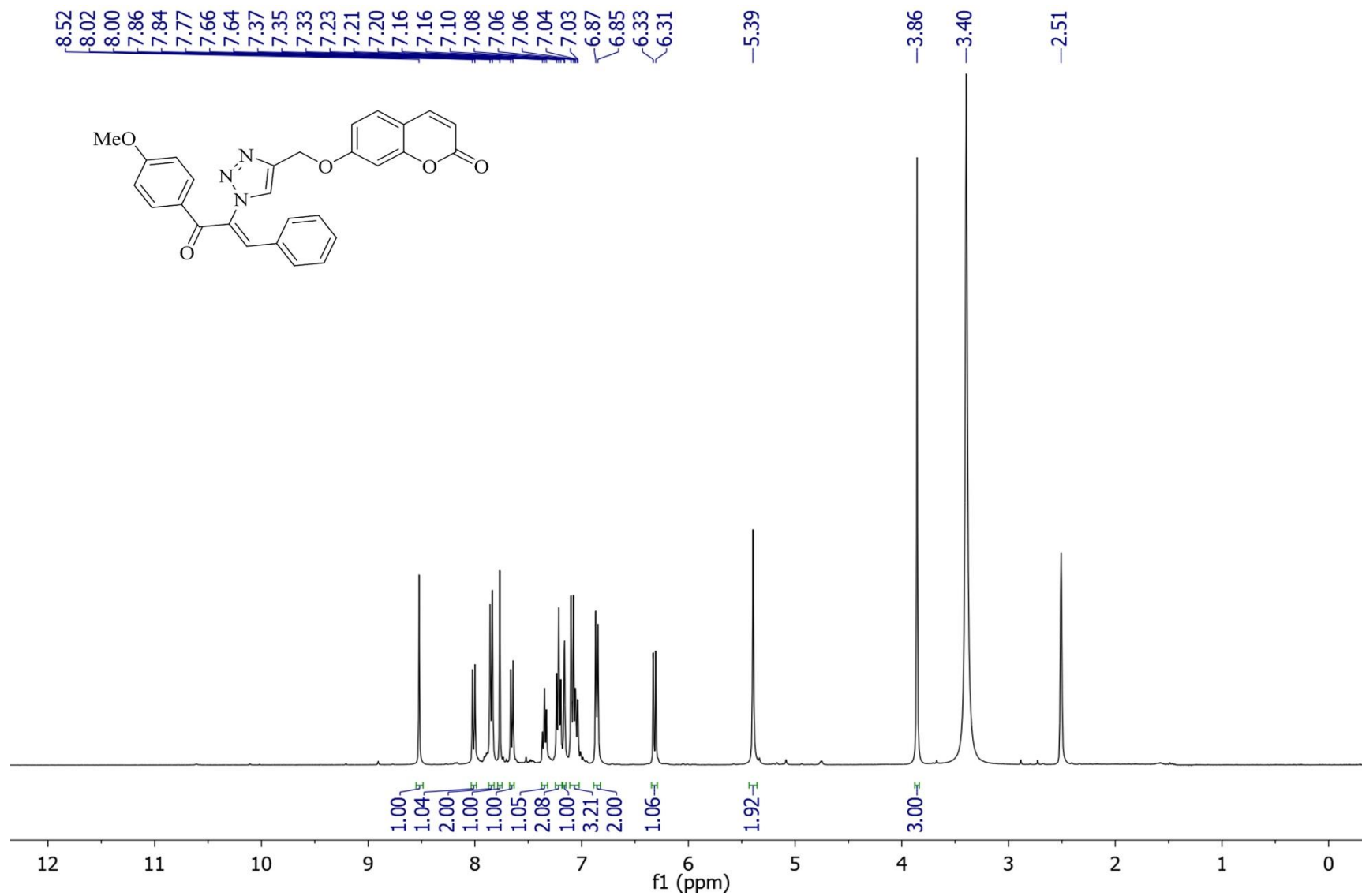


2D NMR spectrum of 7-((1-(3-(4-bromophenyl)-3-oxo-1-phenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20e**)

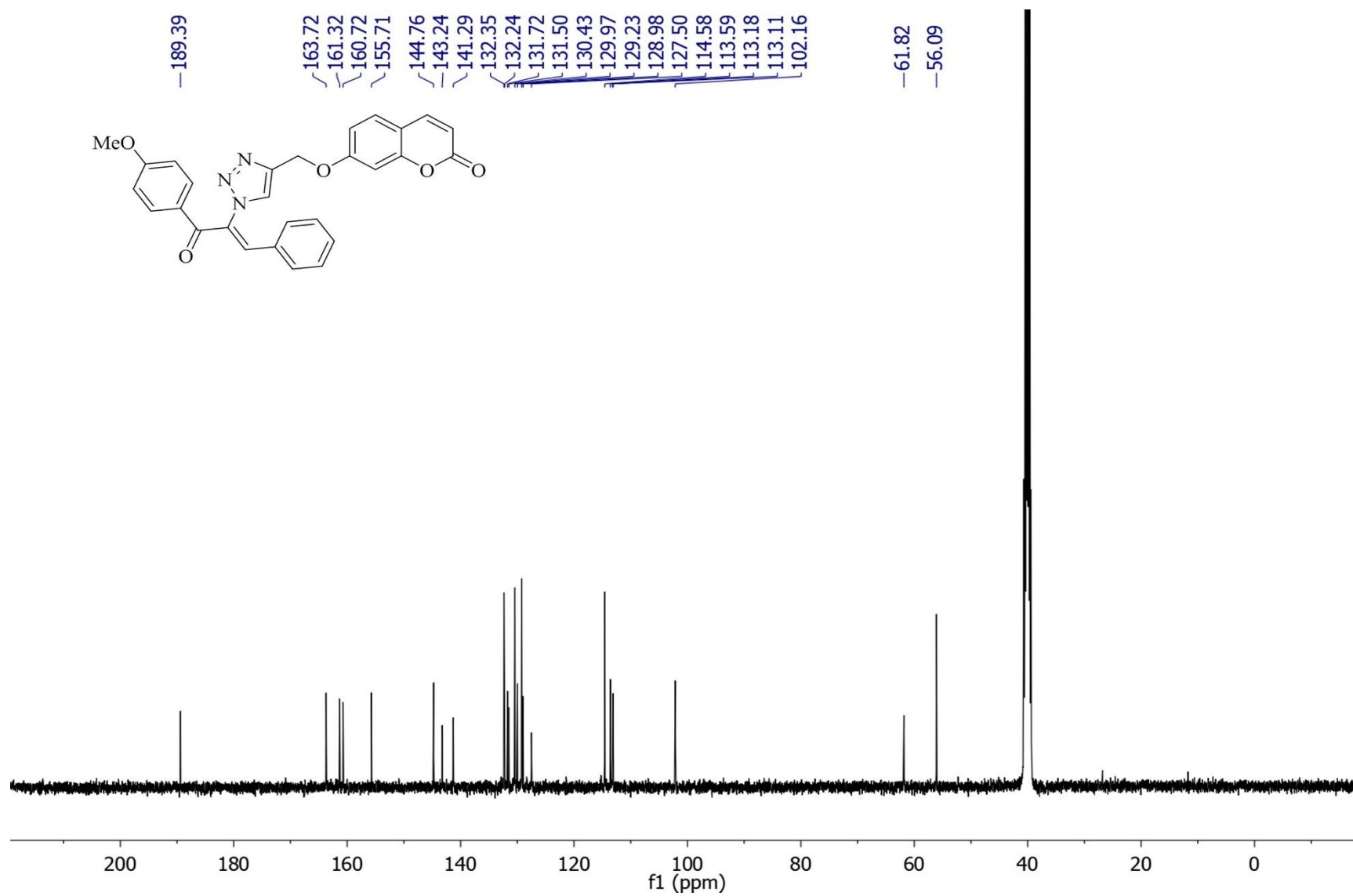


¹³C NMR spectrum of 7-((1-(3-(4-bromophenyl)-3-oxo-1-phenylprop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20e**)

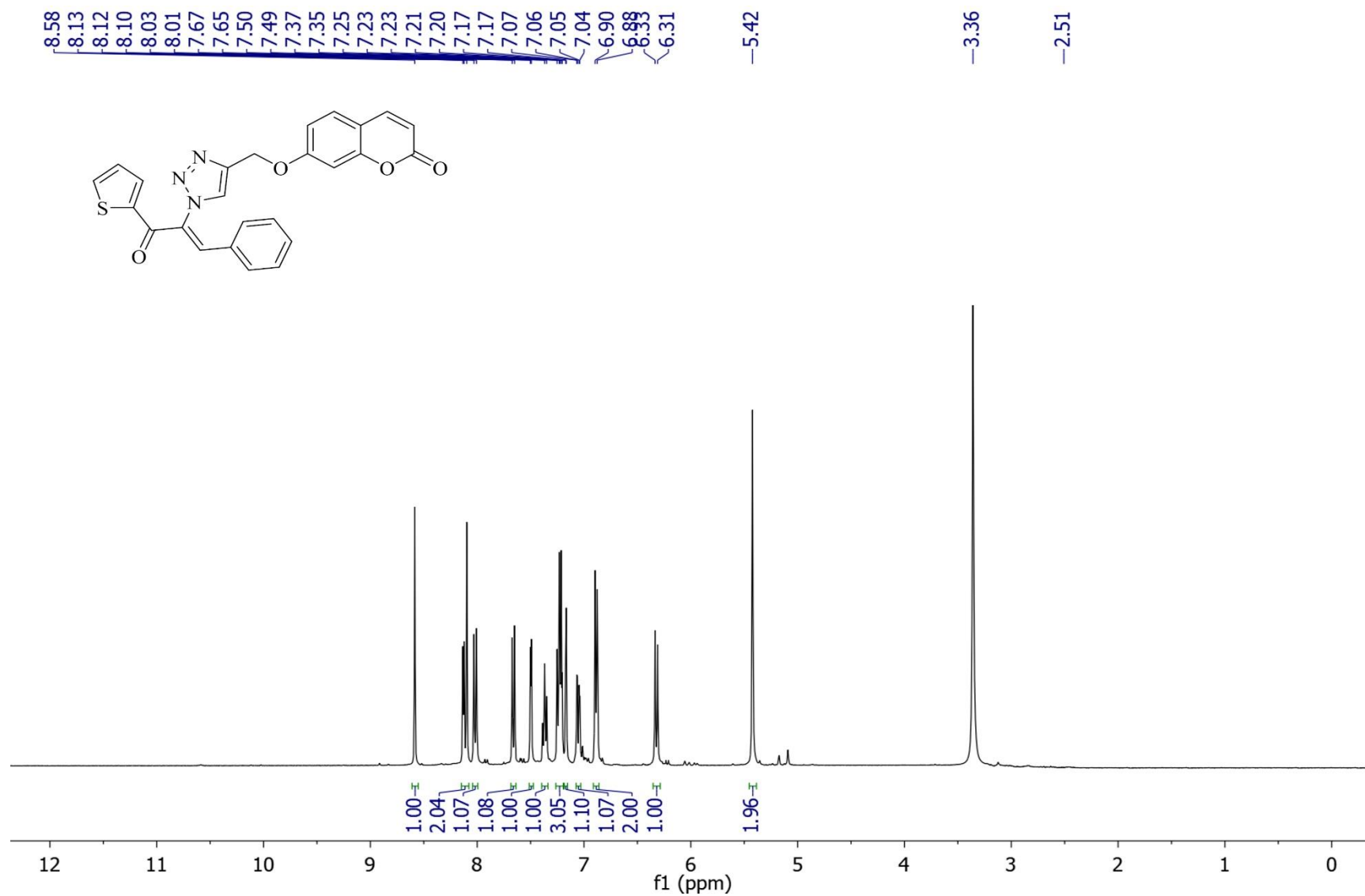
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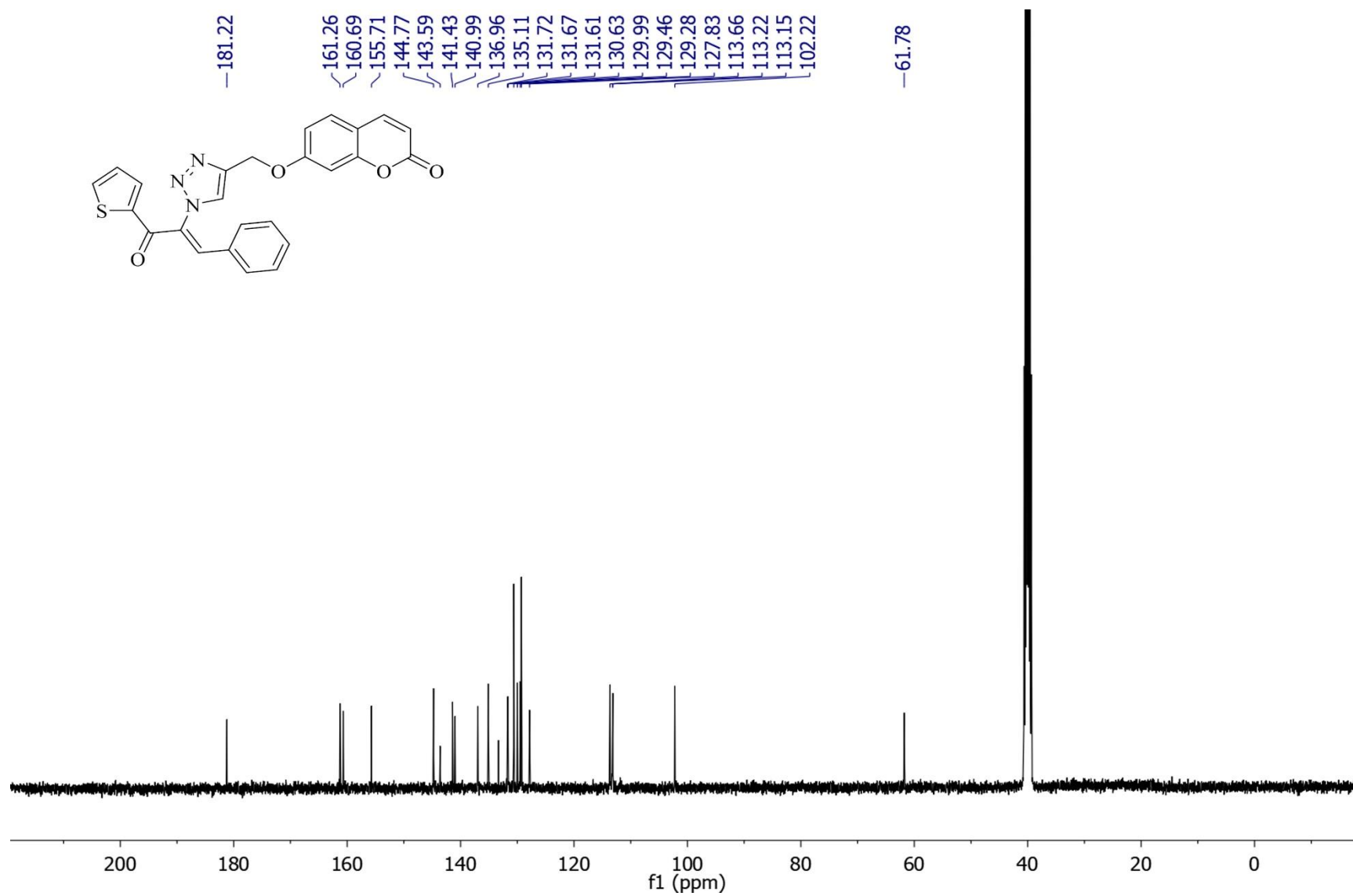
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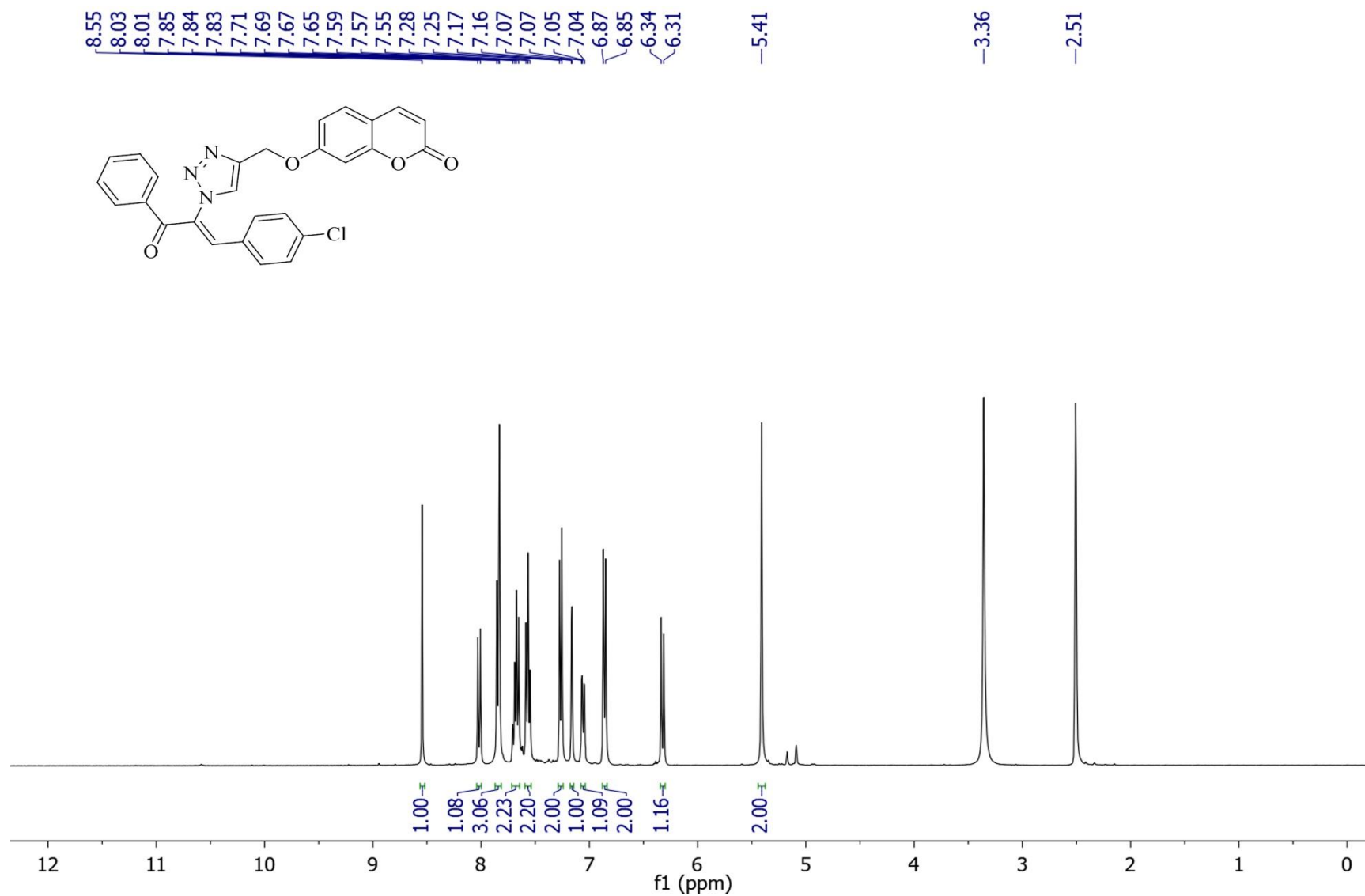
¹H NMR spectrum of 7-((1-(3-oxo-1-phenyl-3-(thiophen-2-yl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20g**)



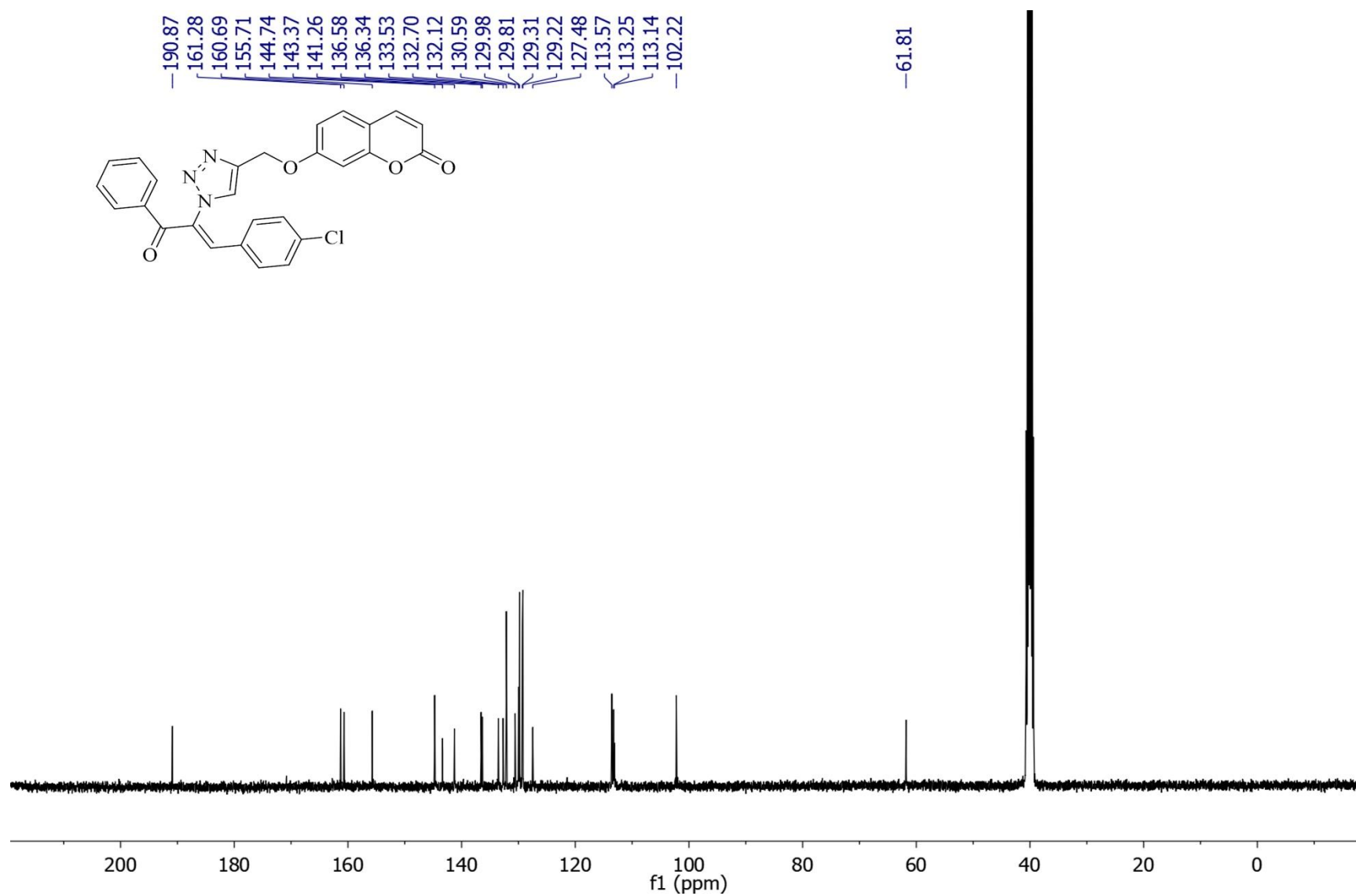
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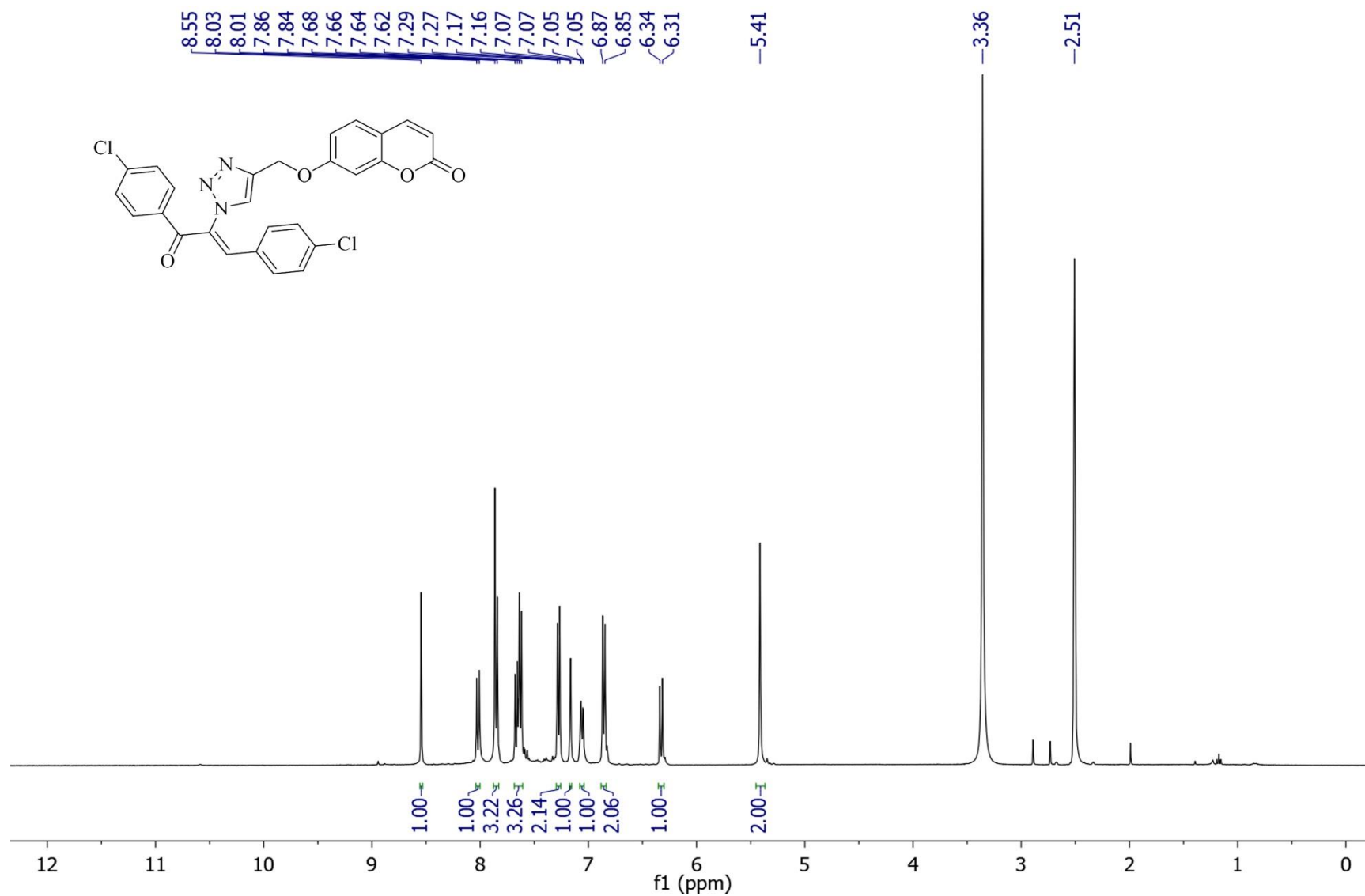
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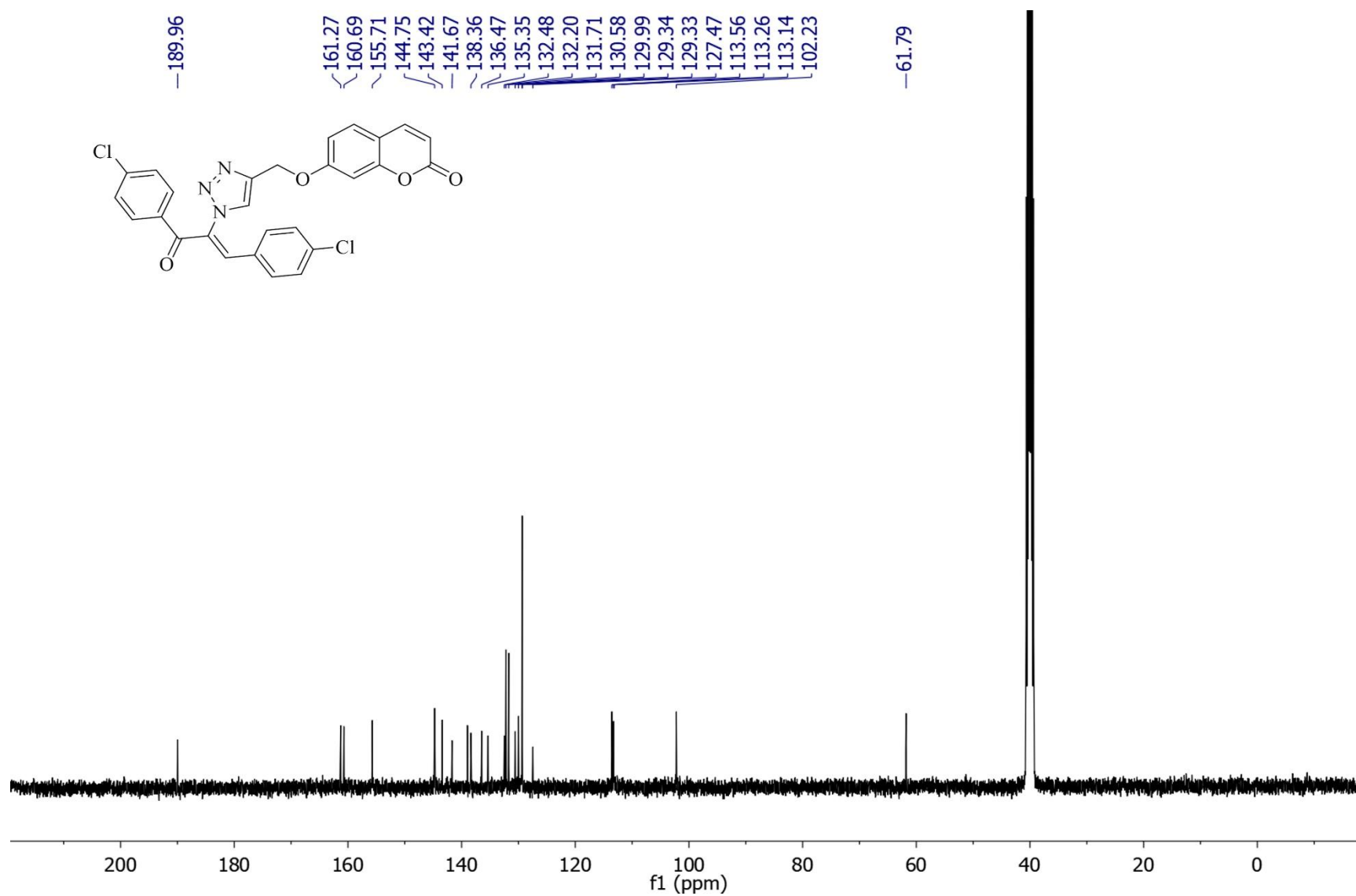
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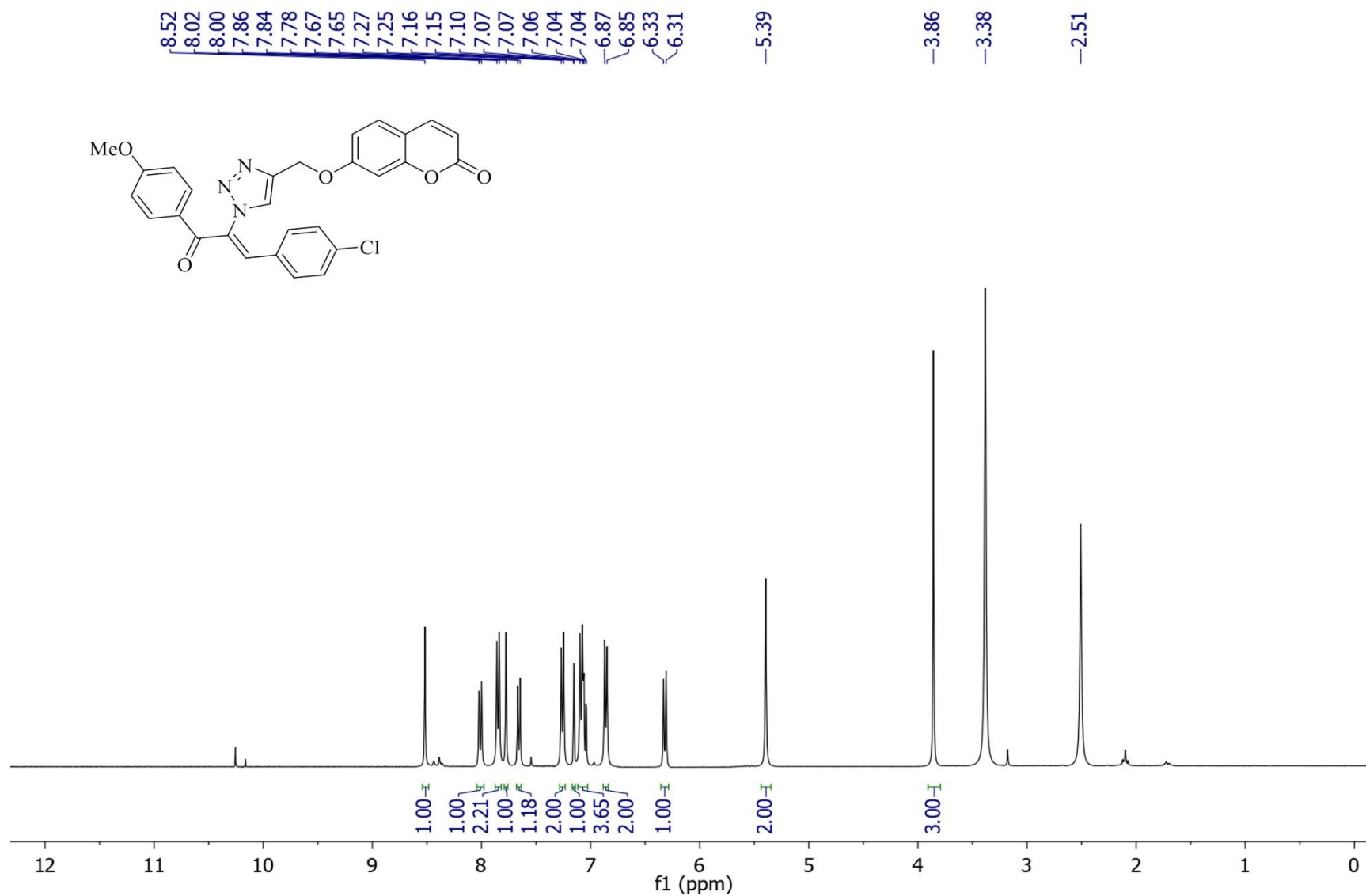
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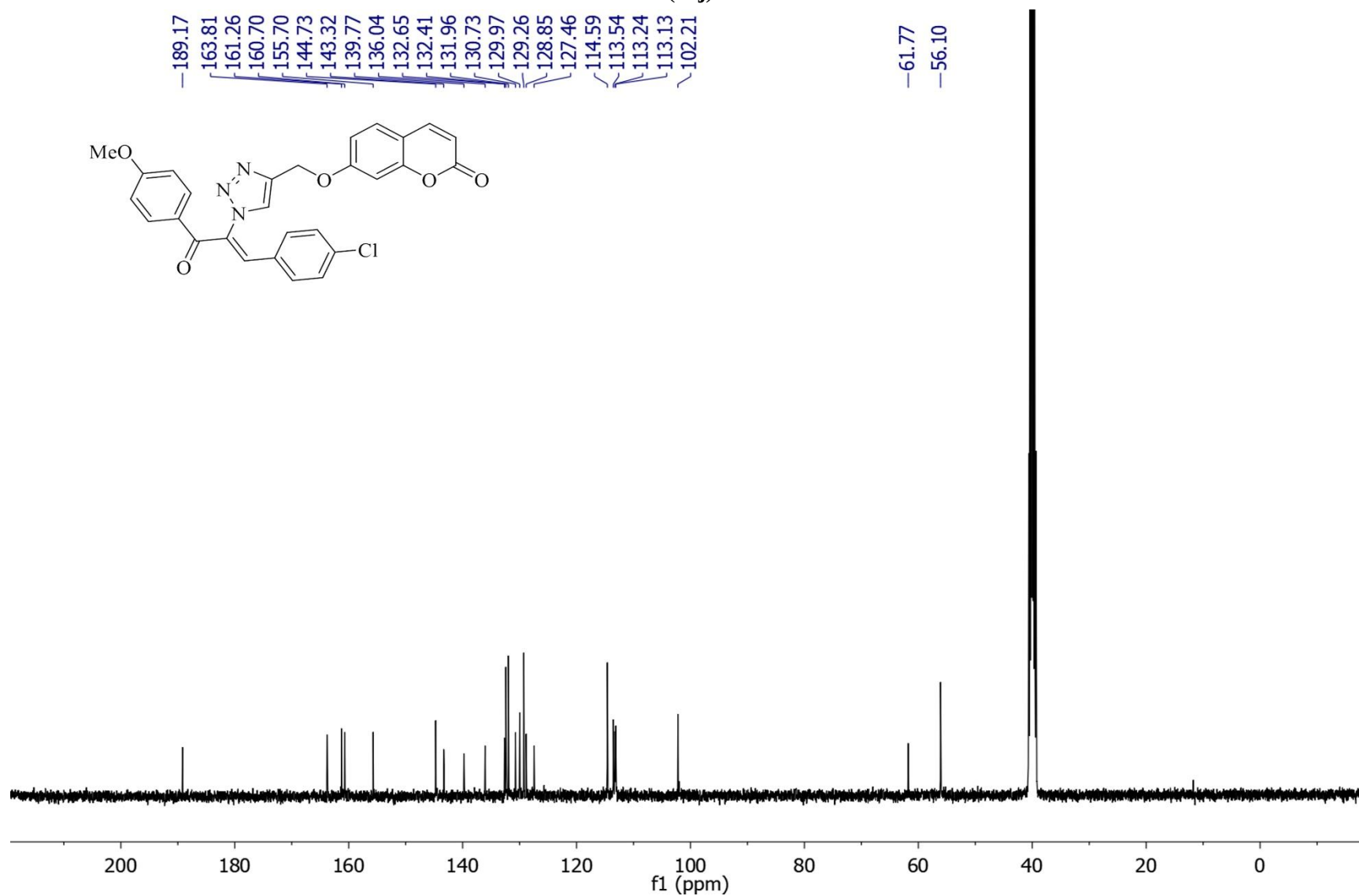
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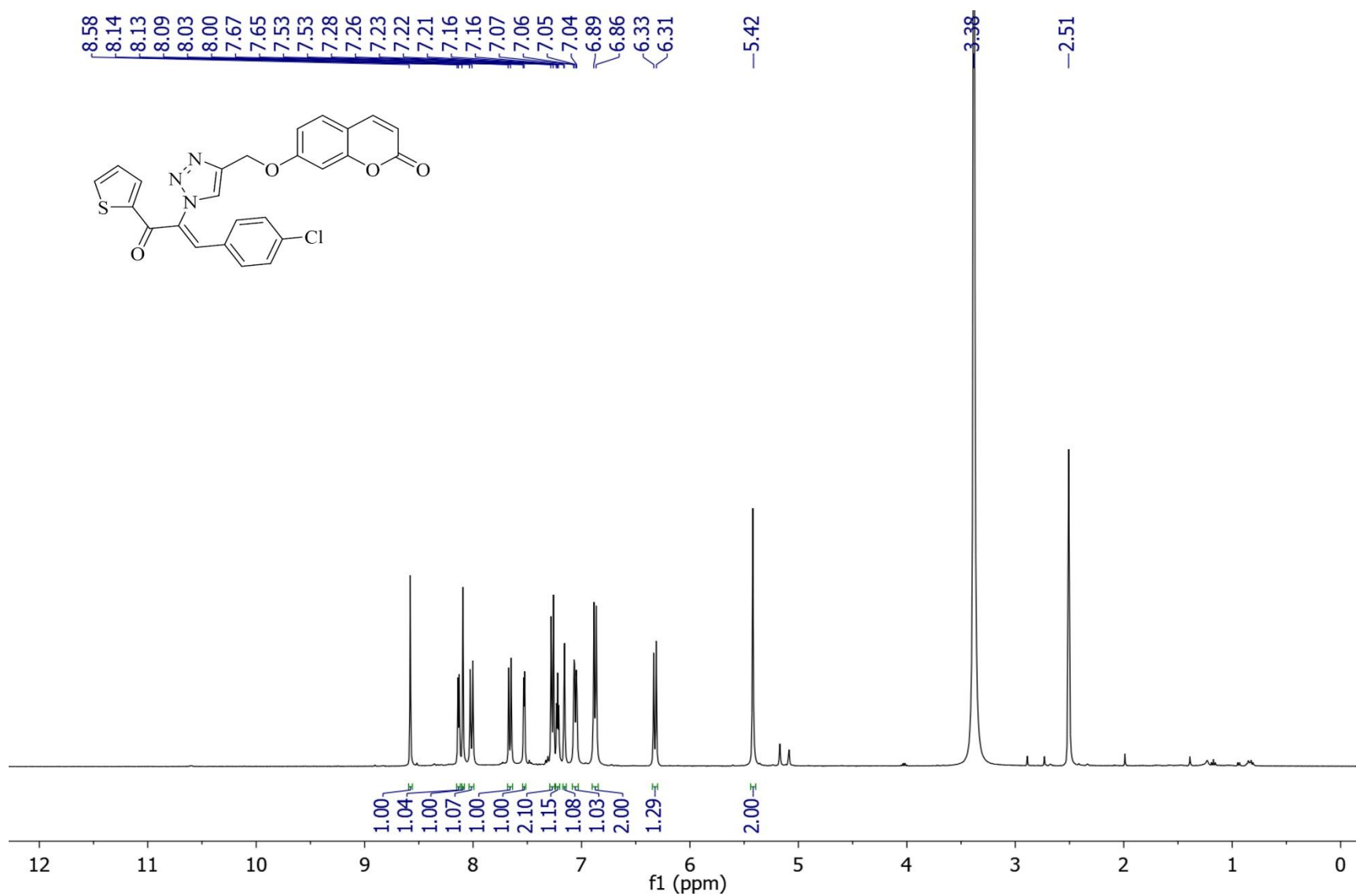
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(**20j**)



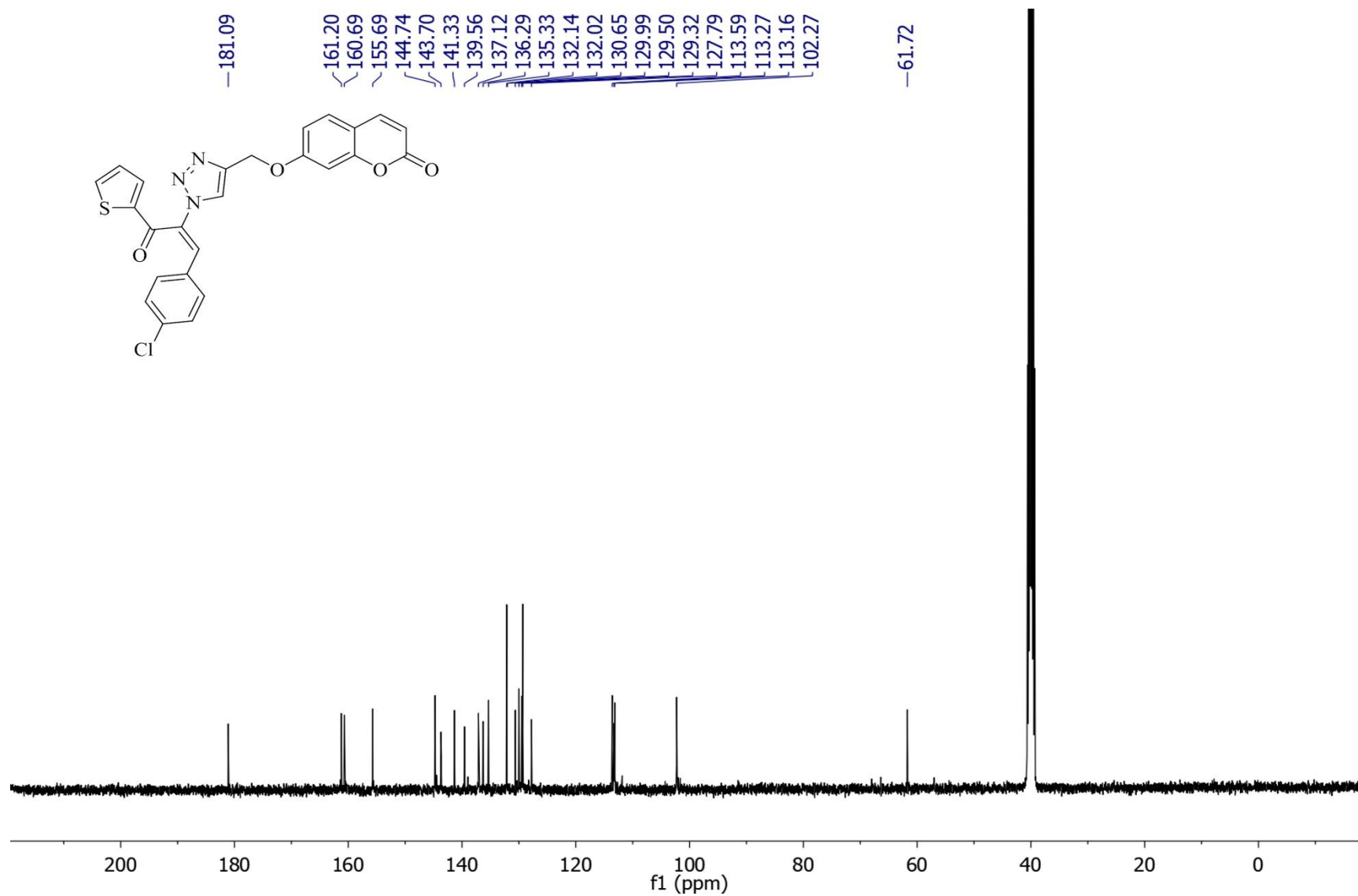
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(20j)



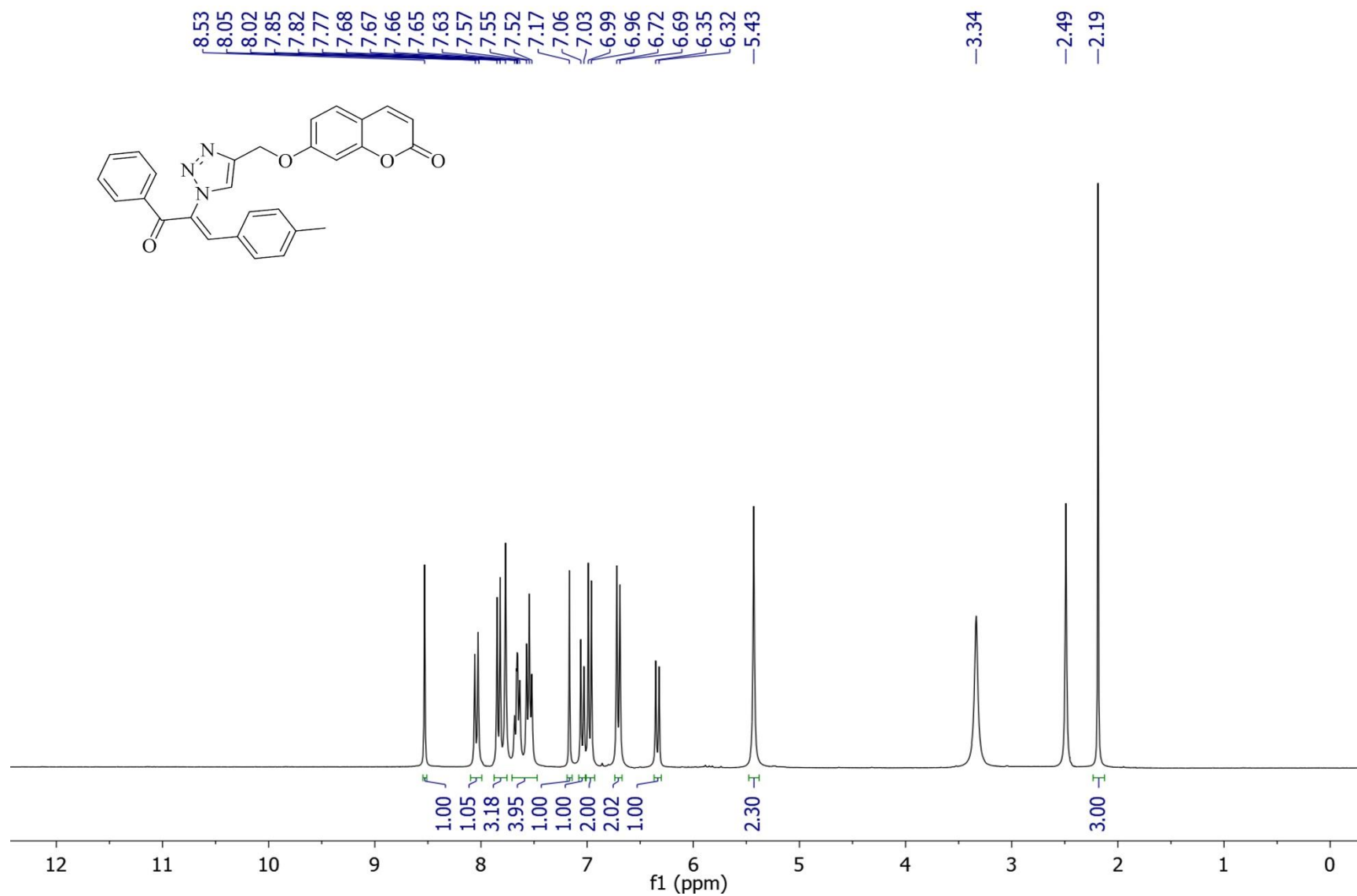
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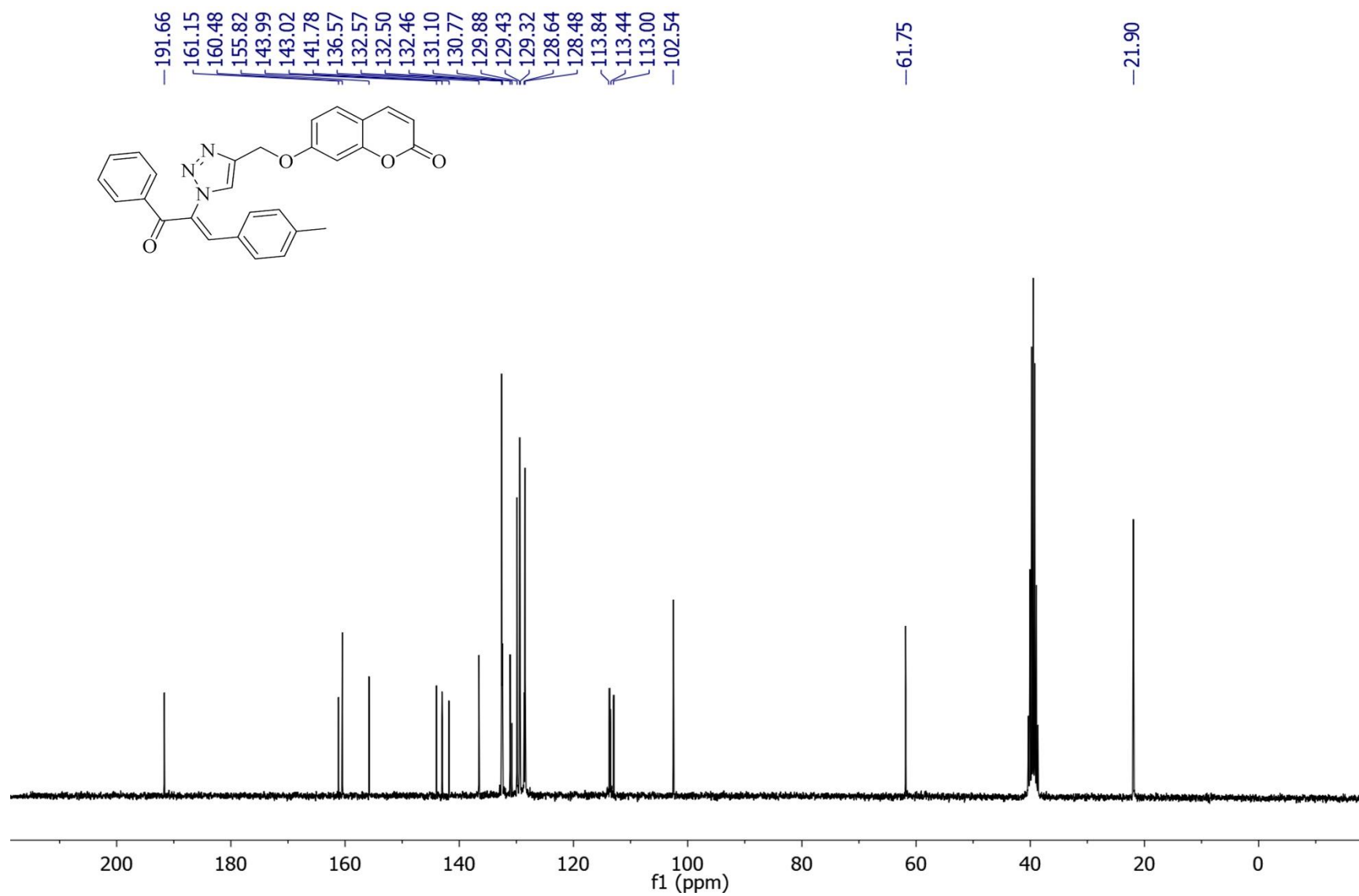
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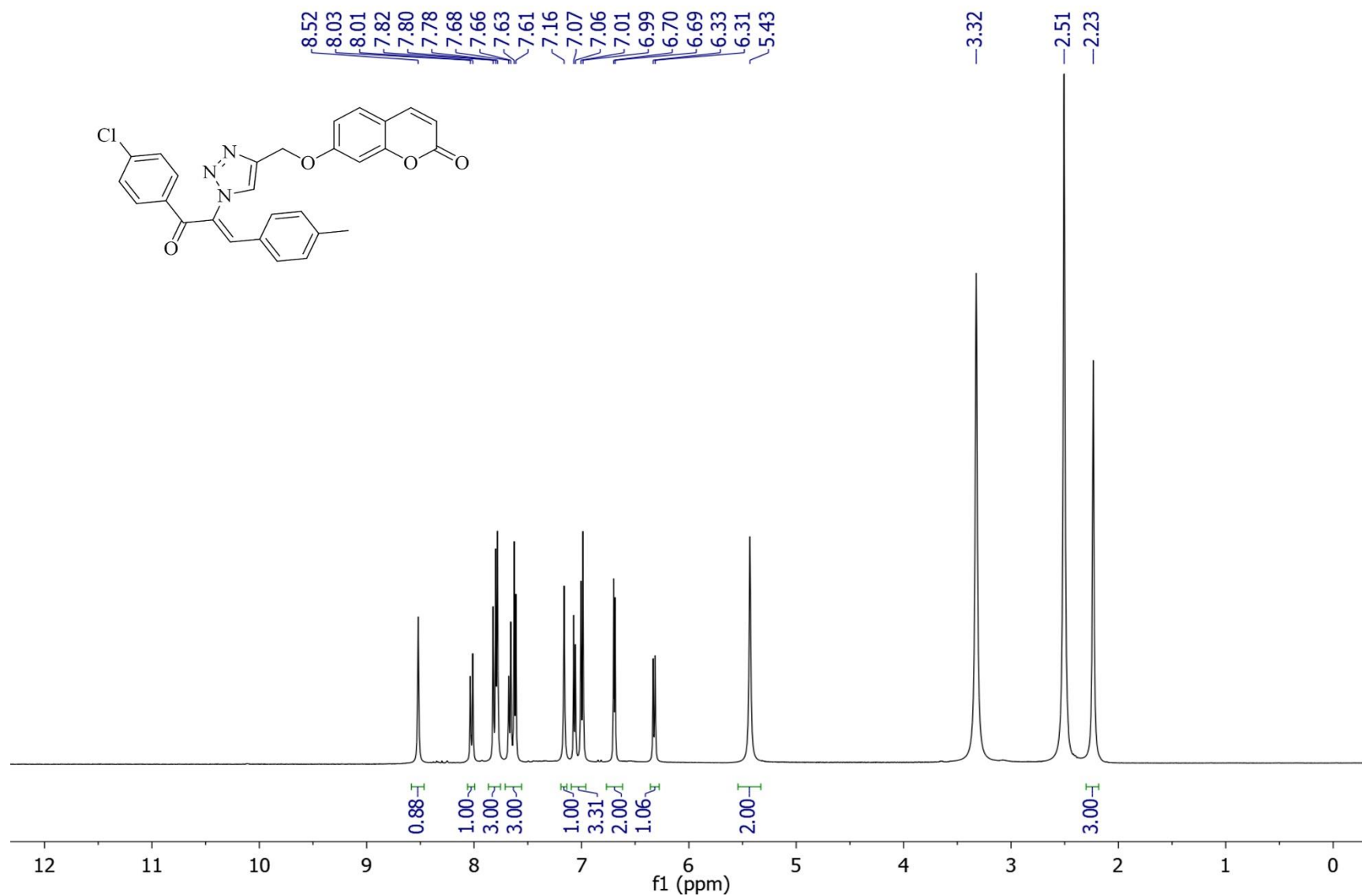
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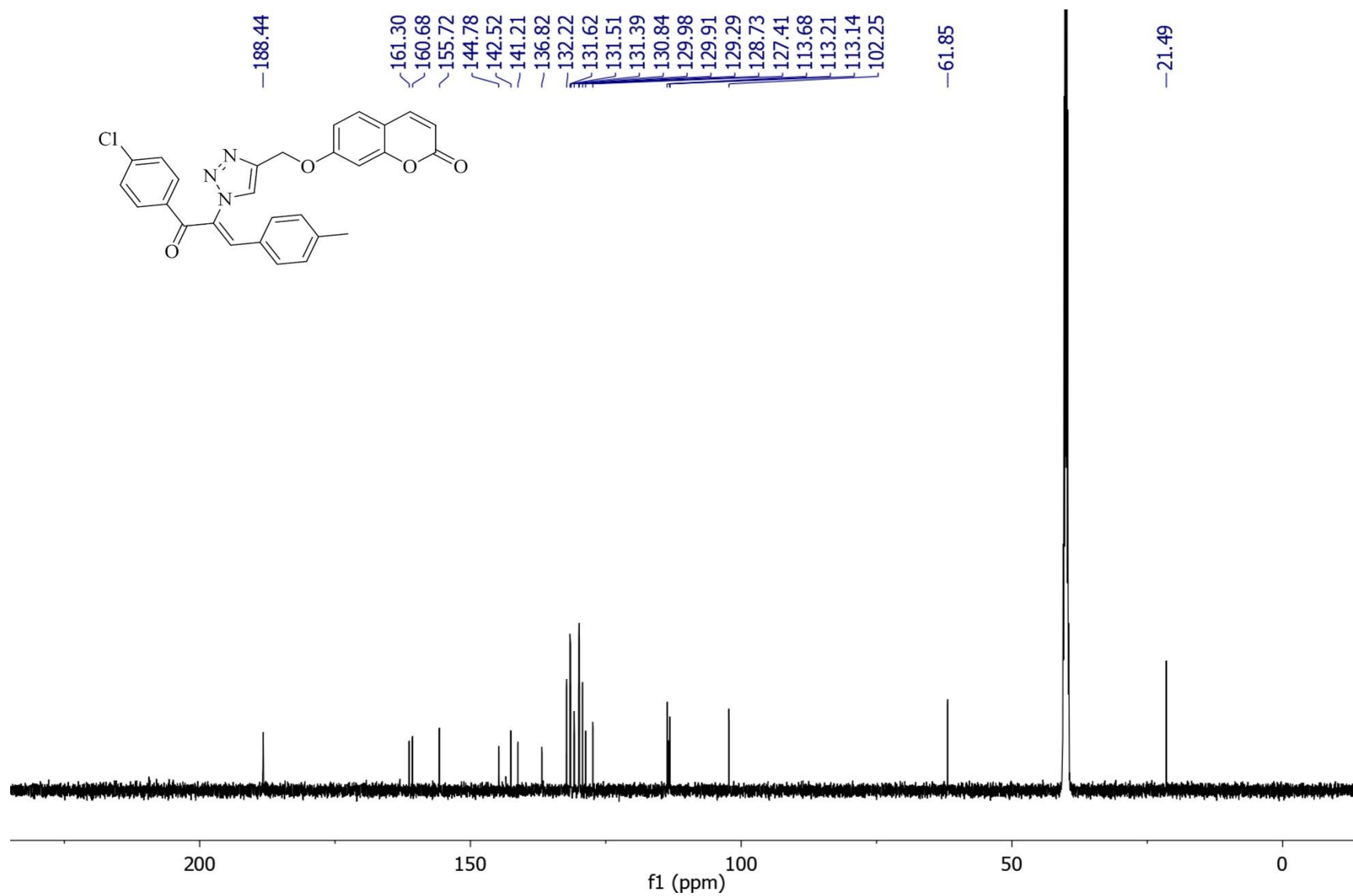
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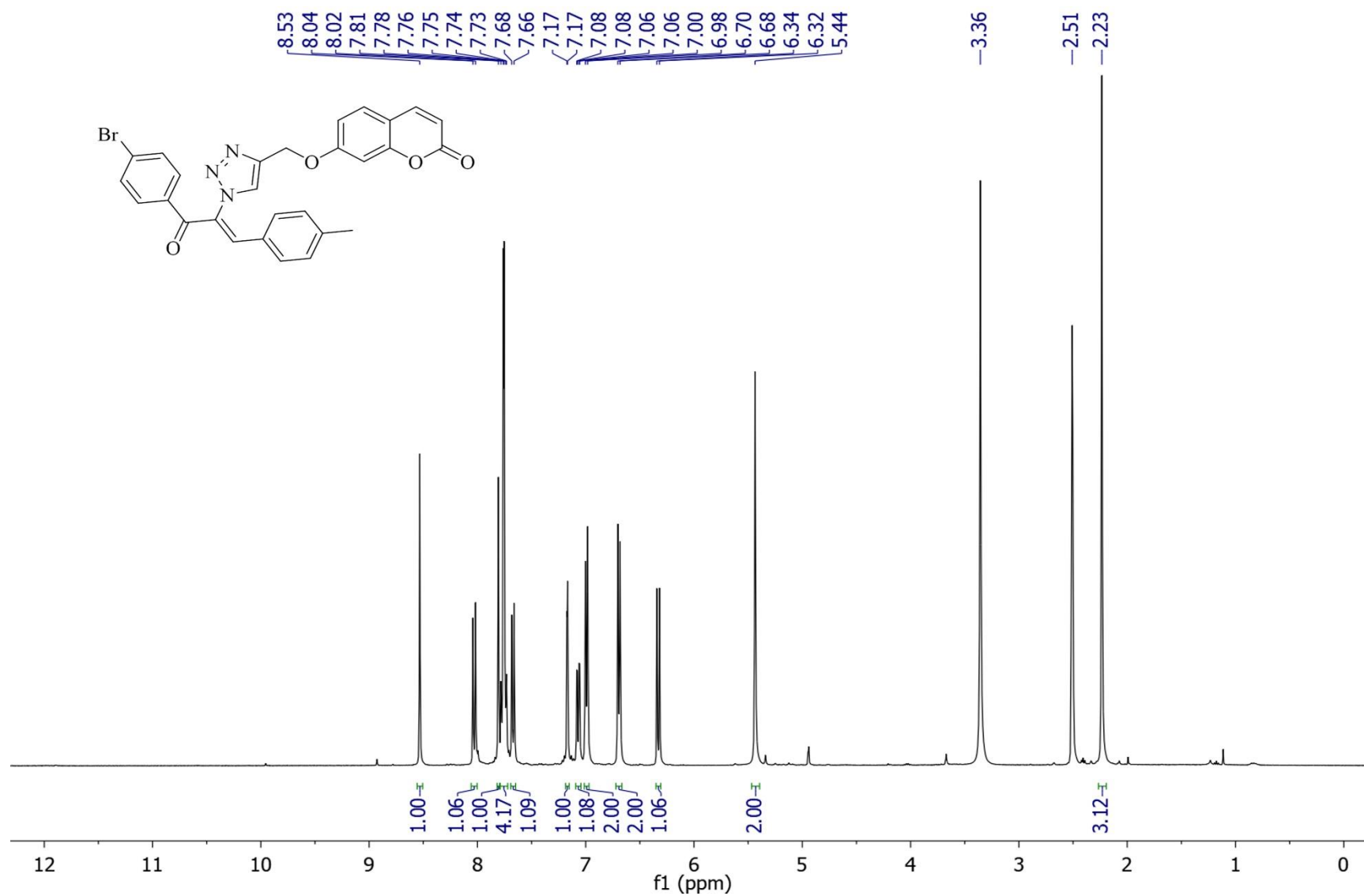
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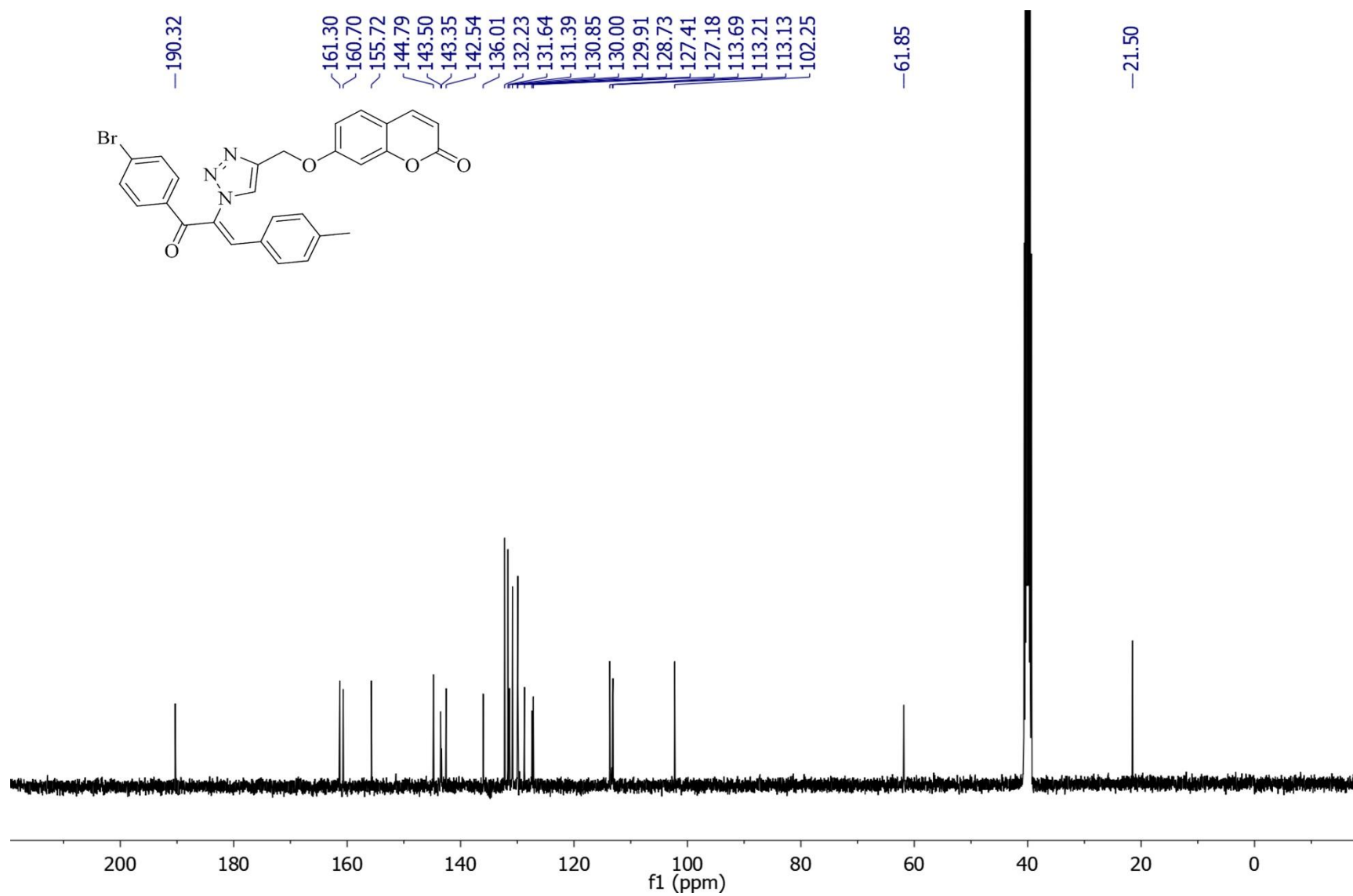
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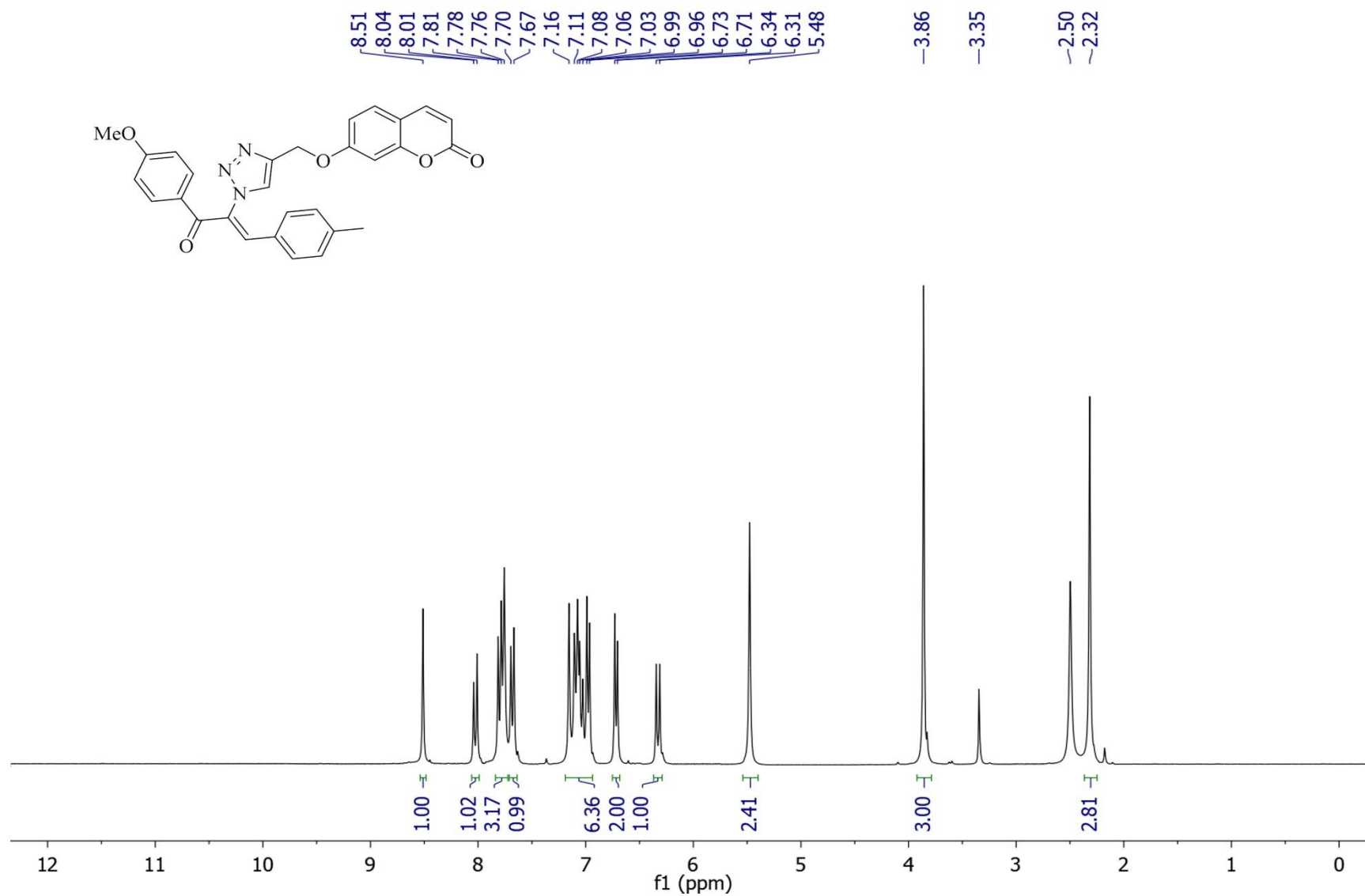
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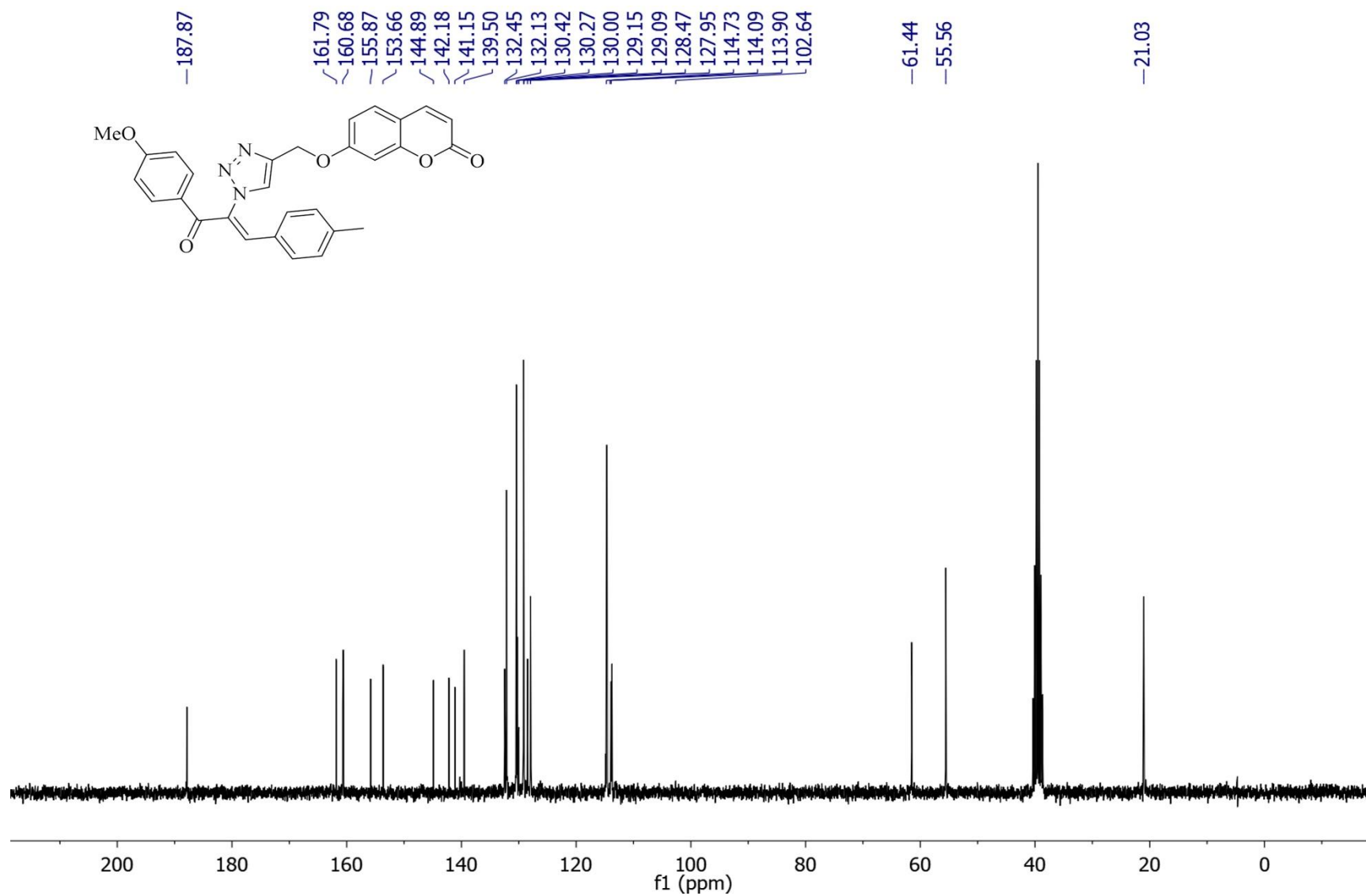
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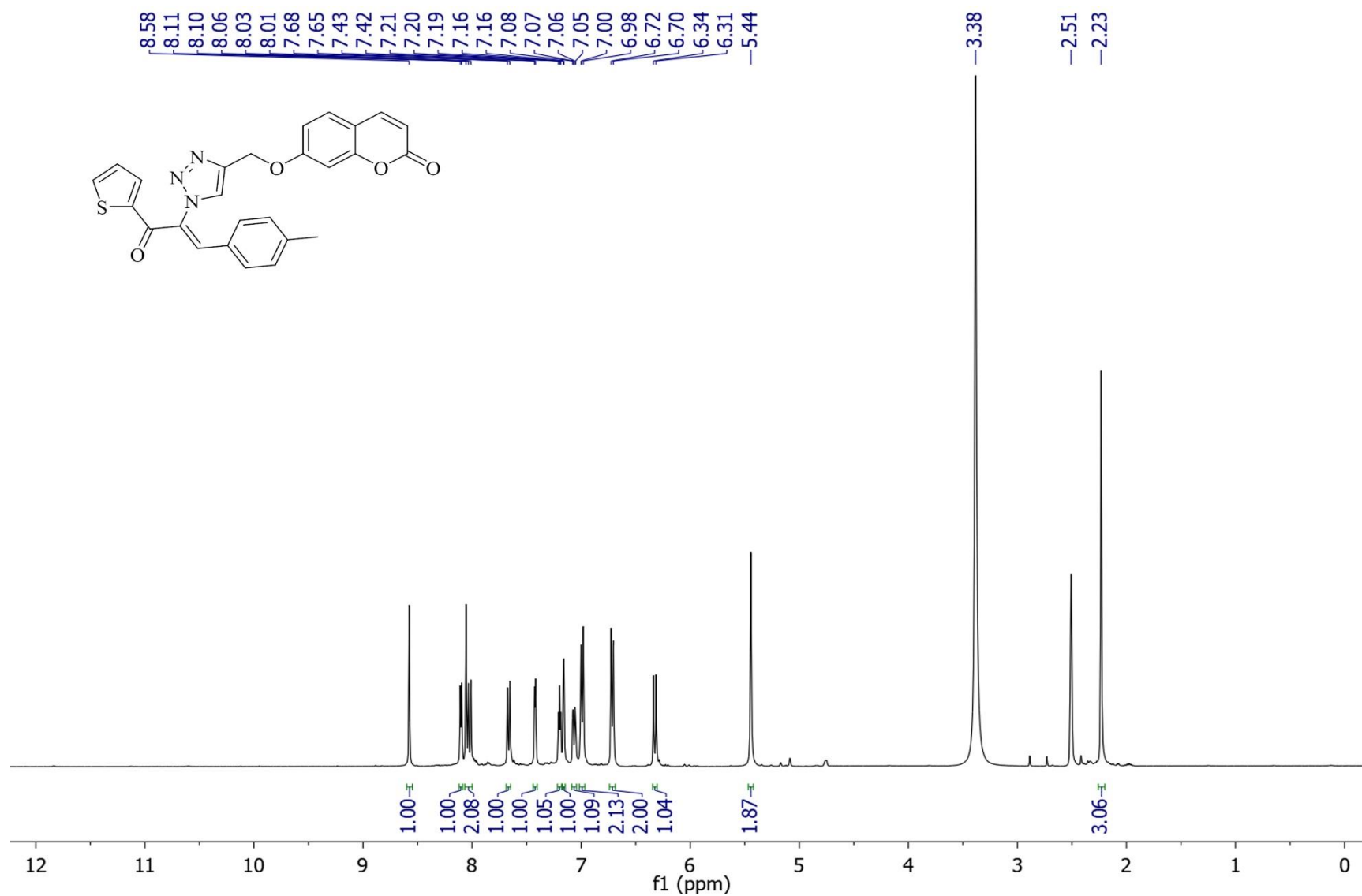
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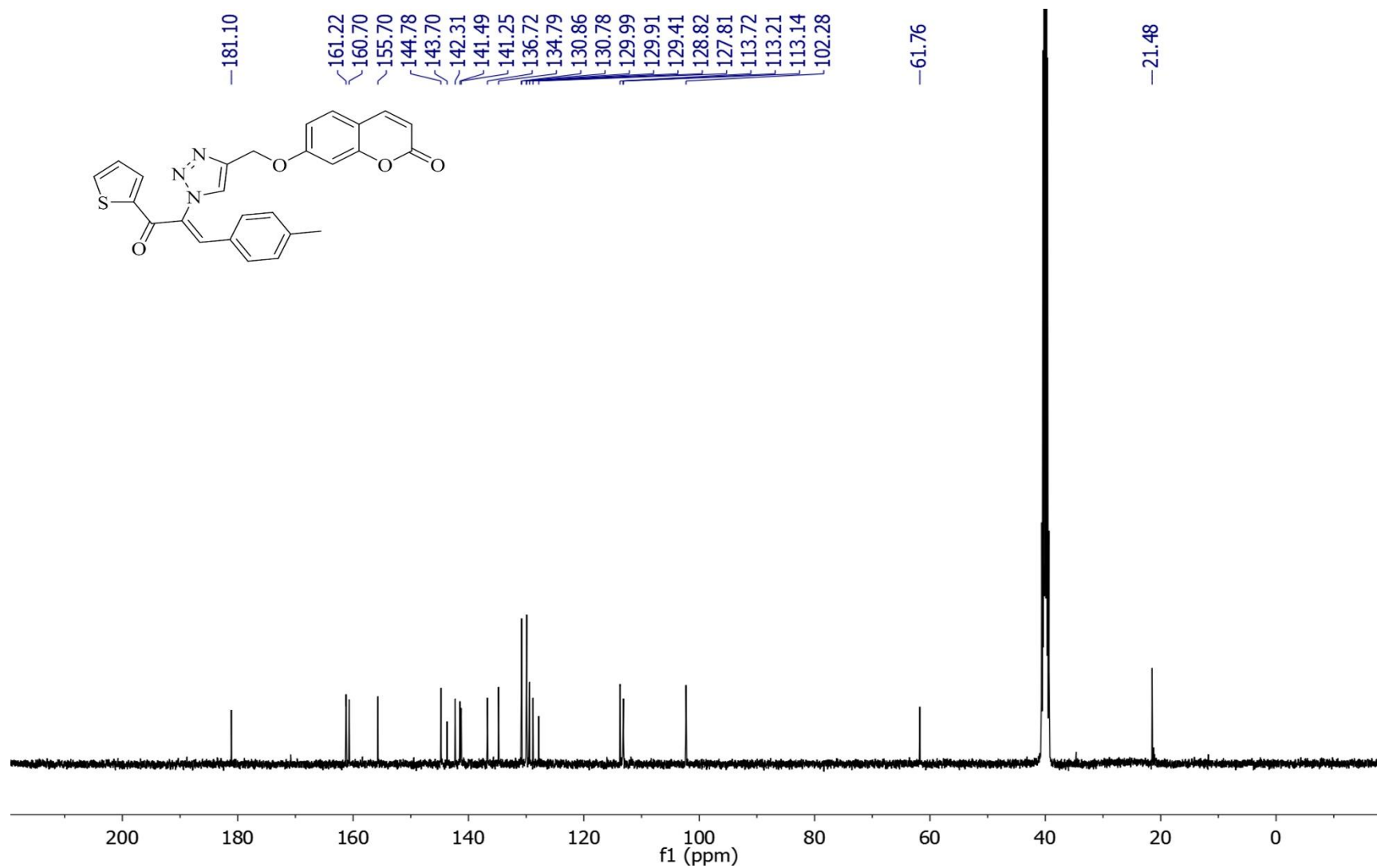
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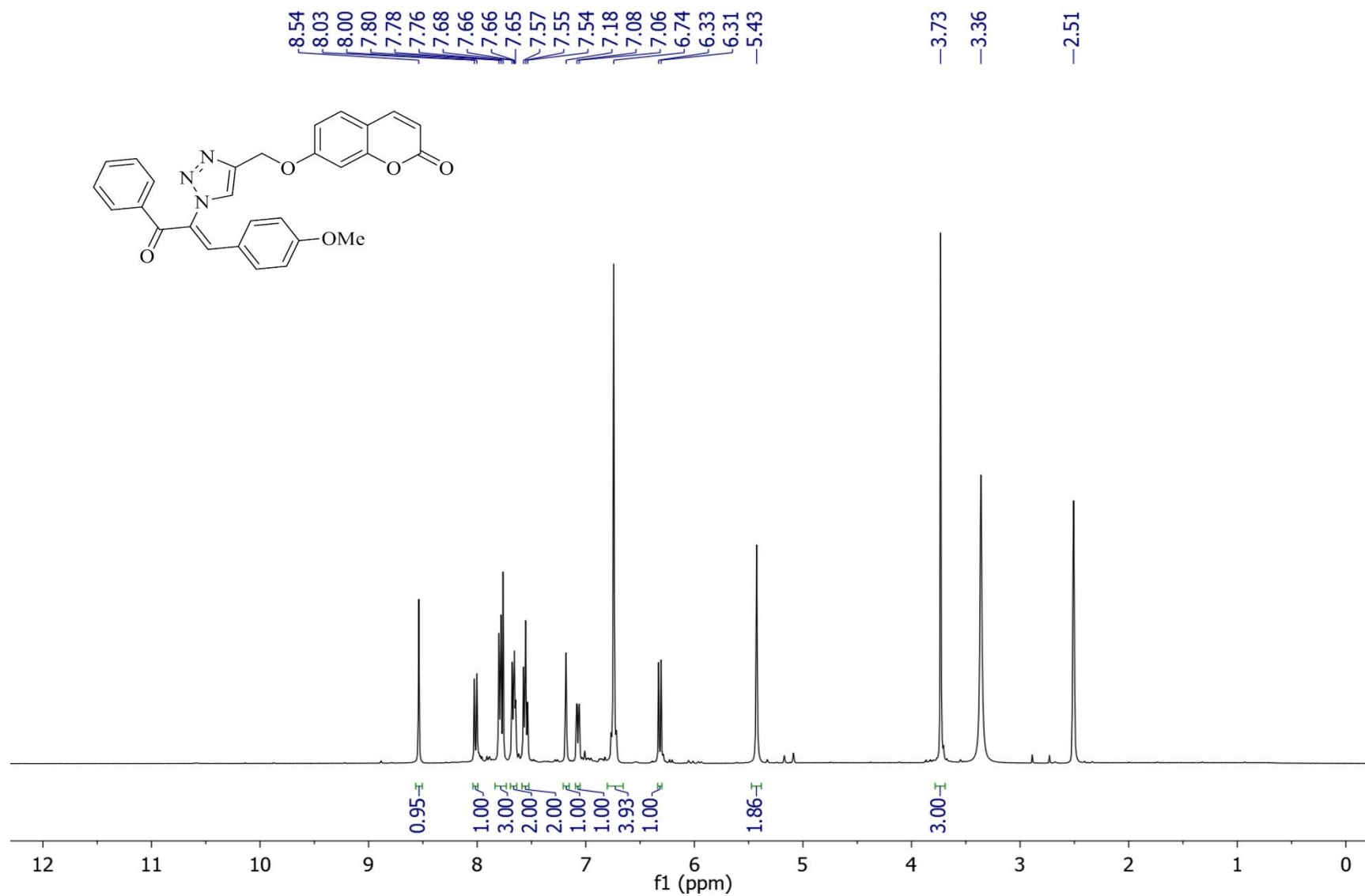
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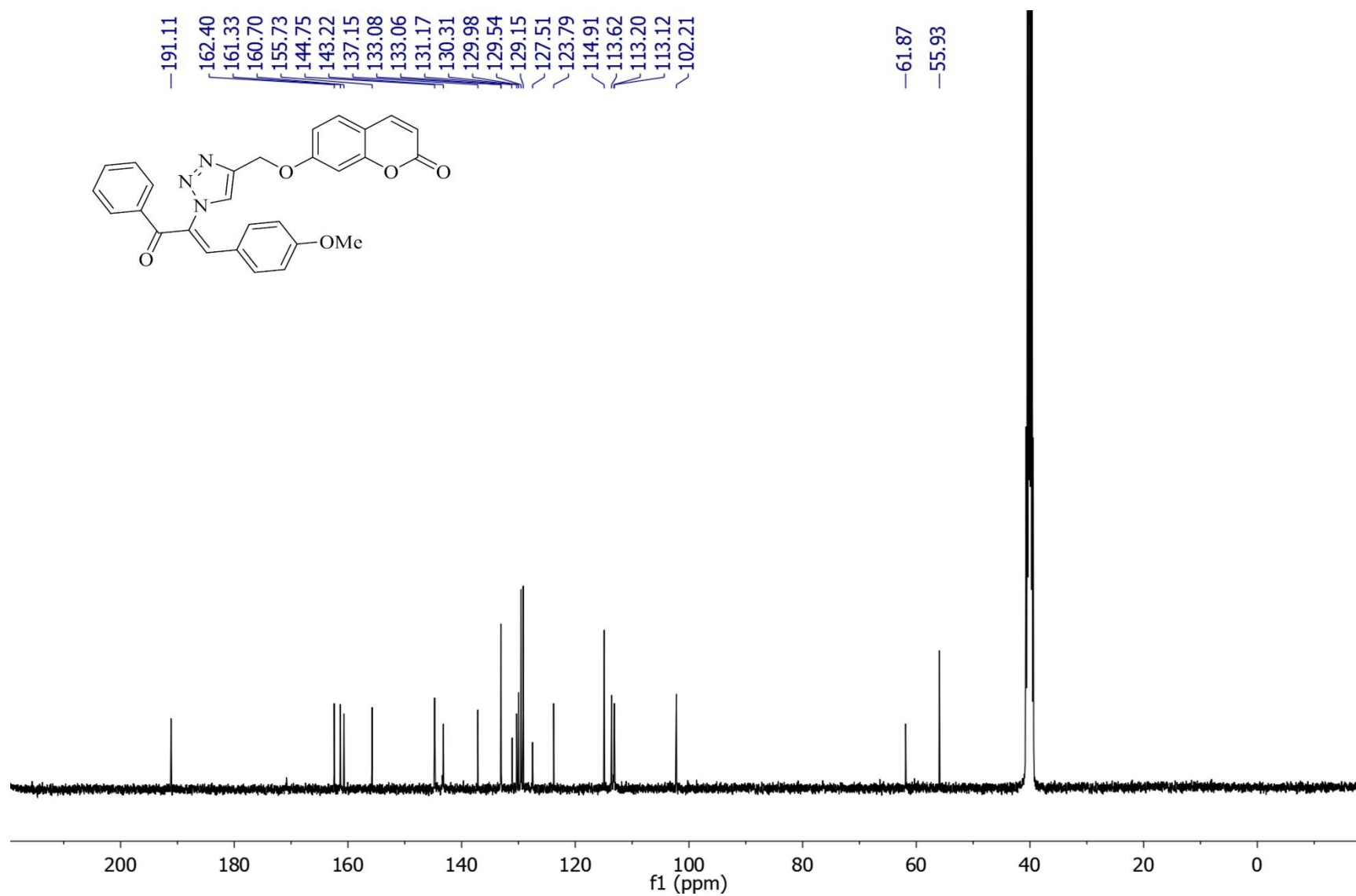
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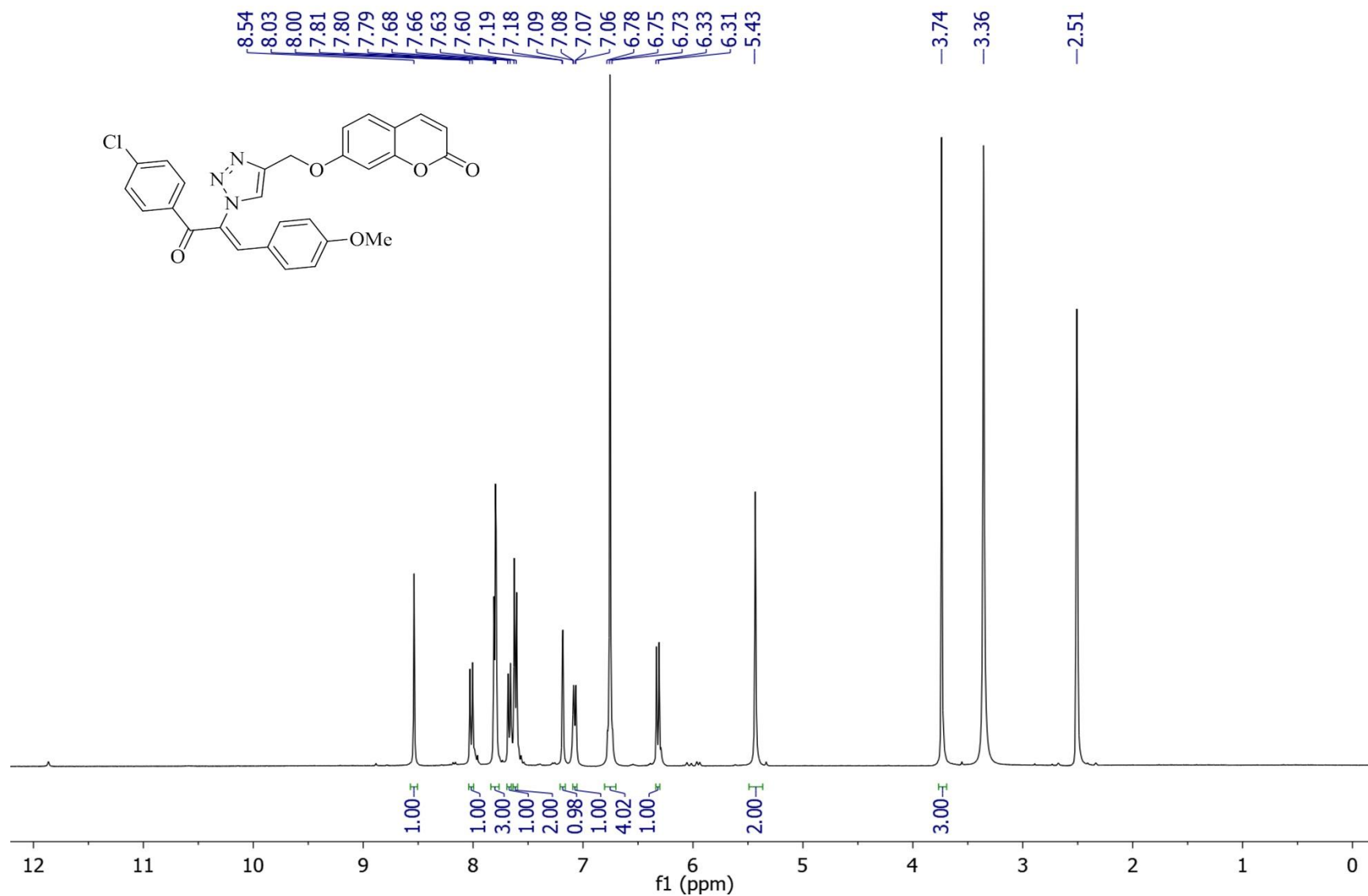
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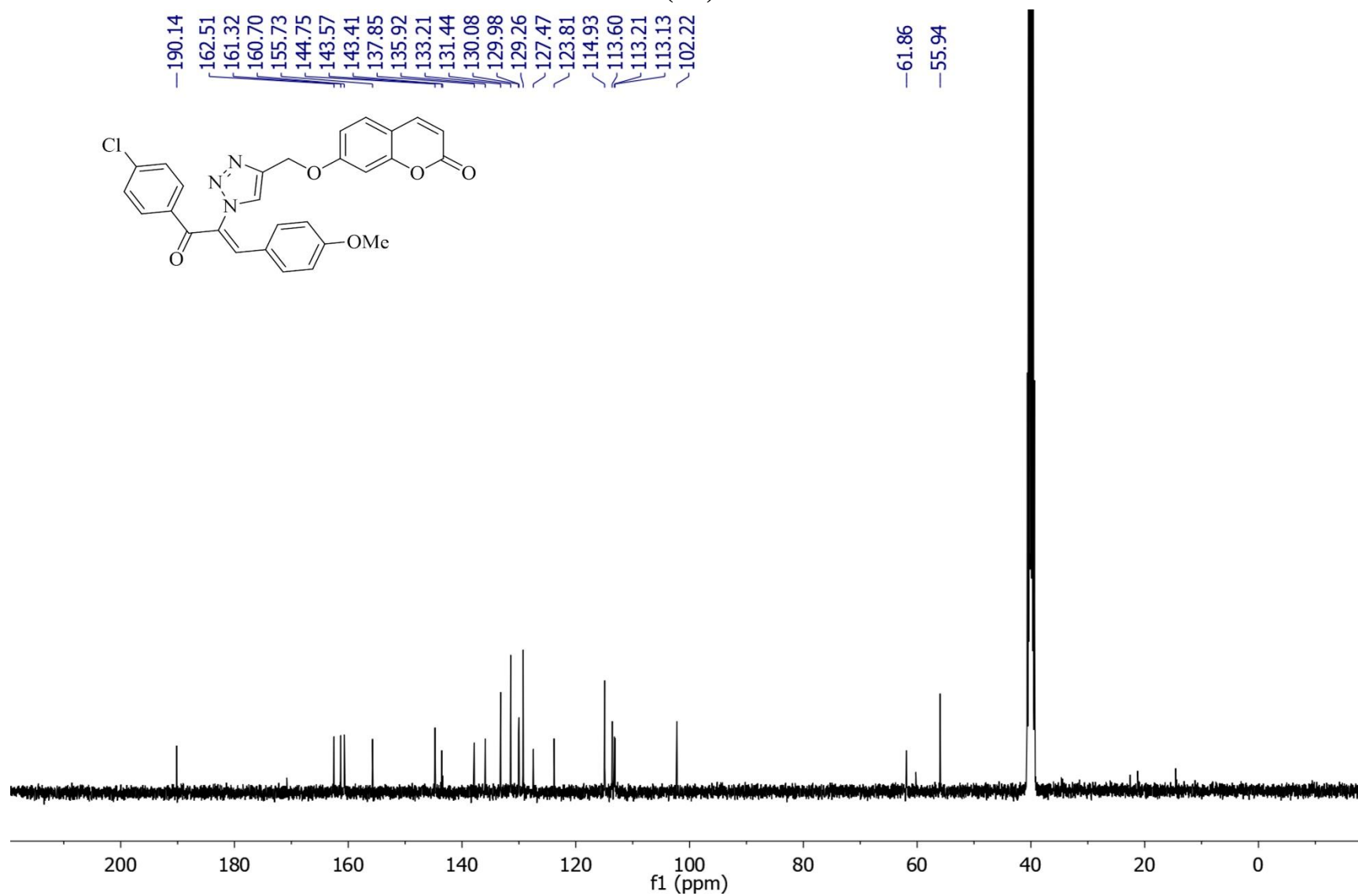
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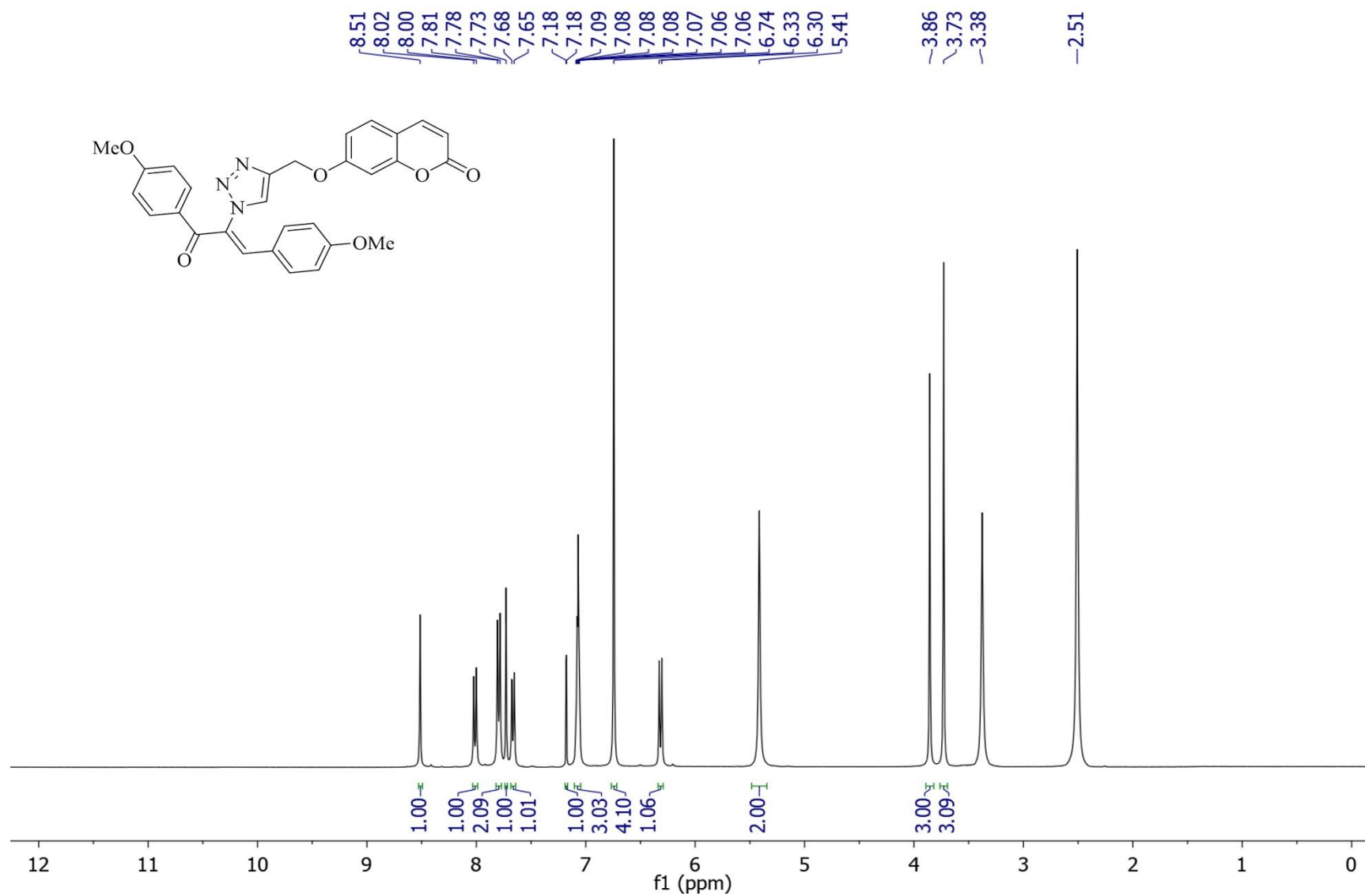
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(20r)



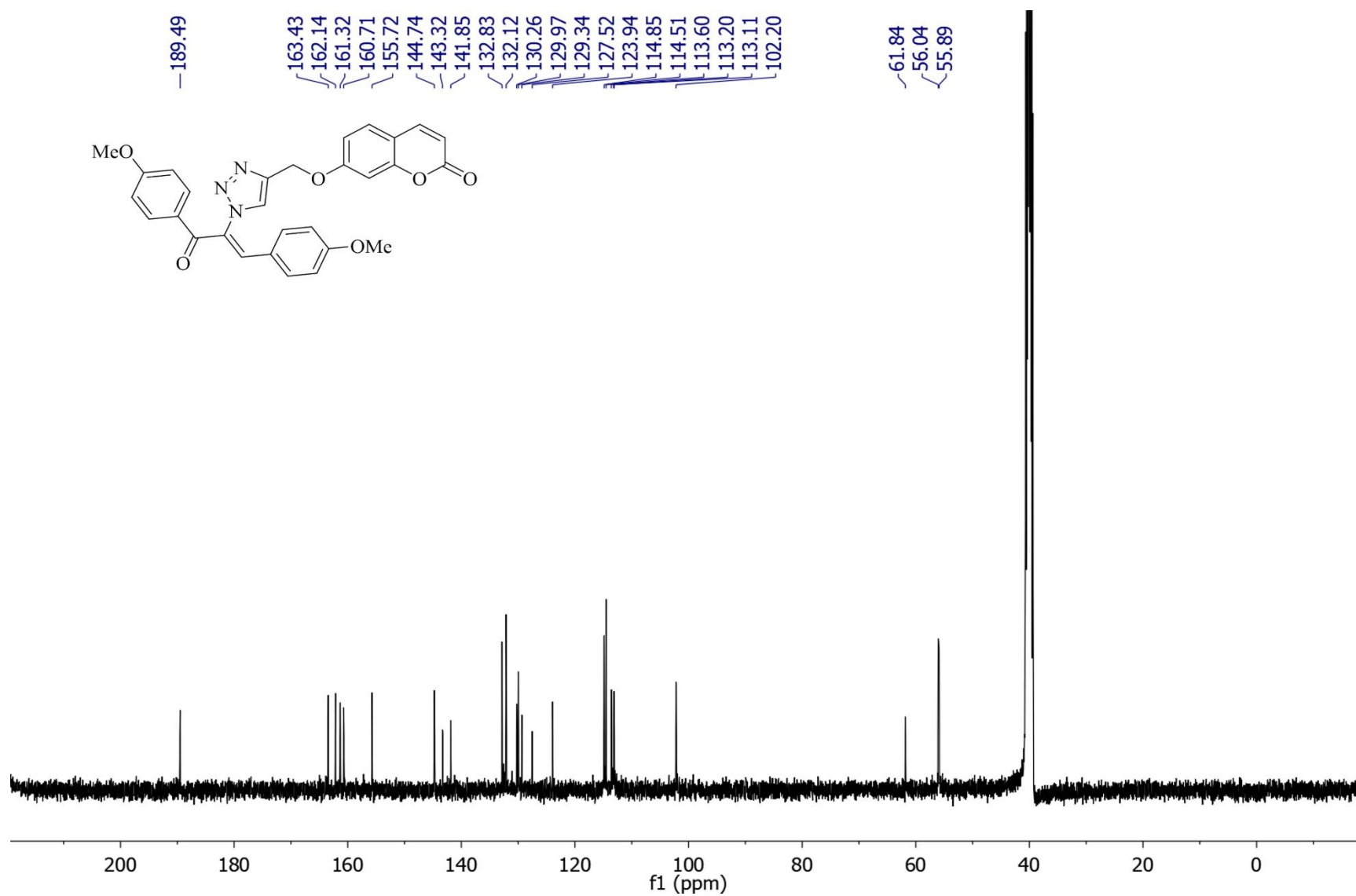
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(20r)



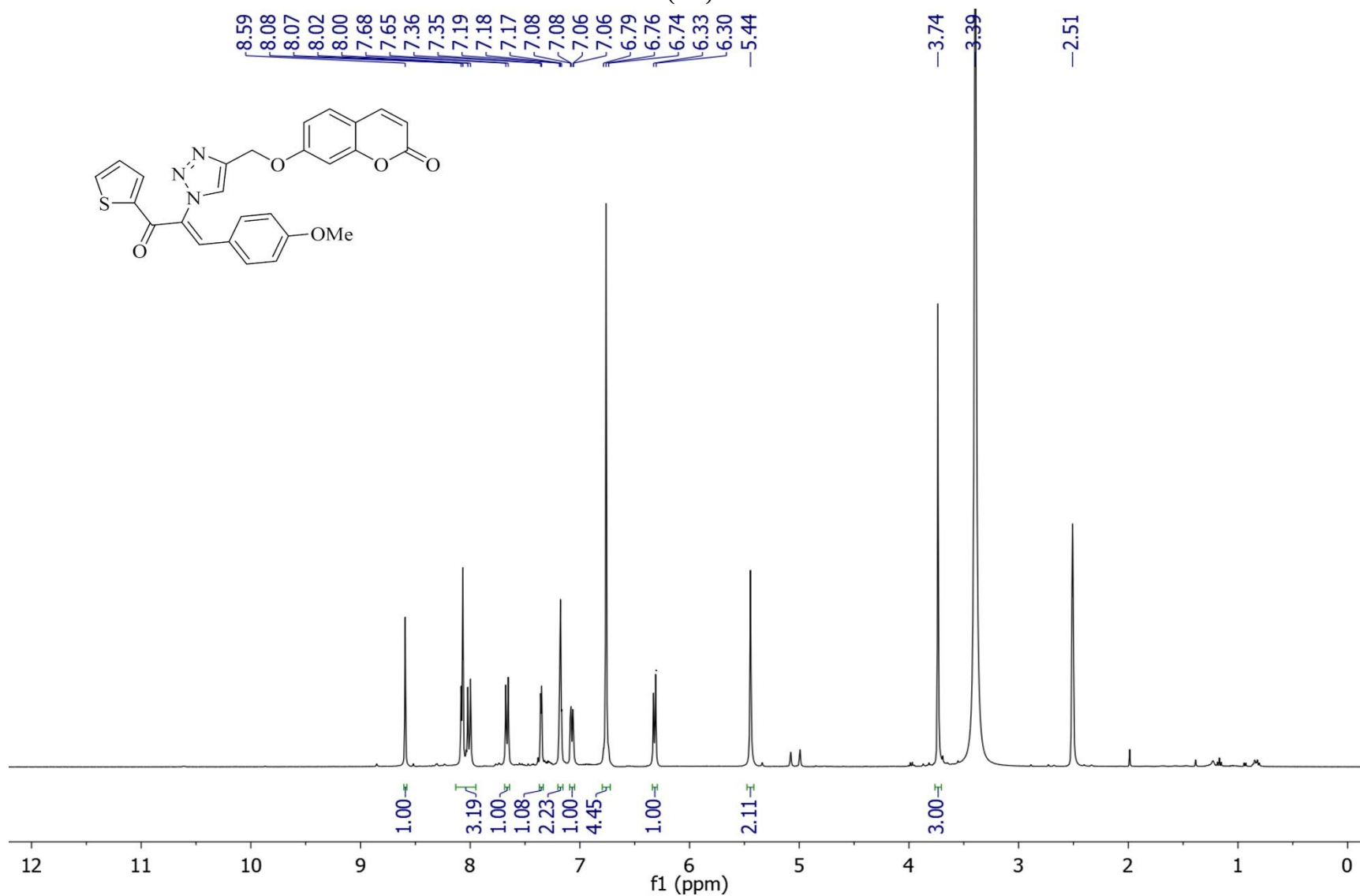
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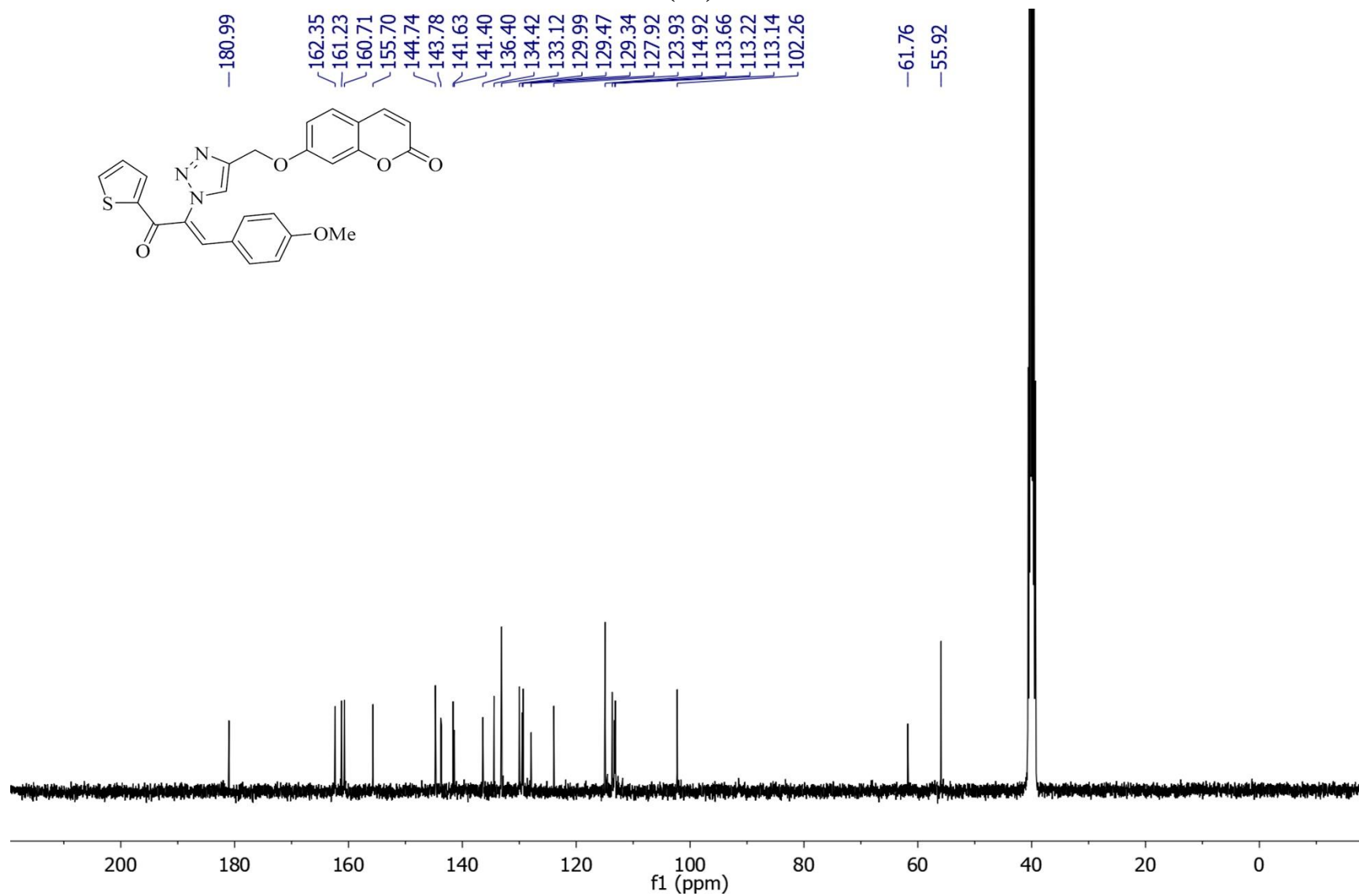
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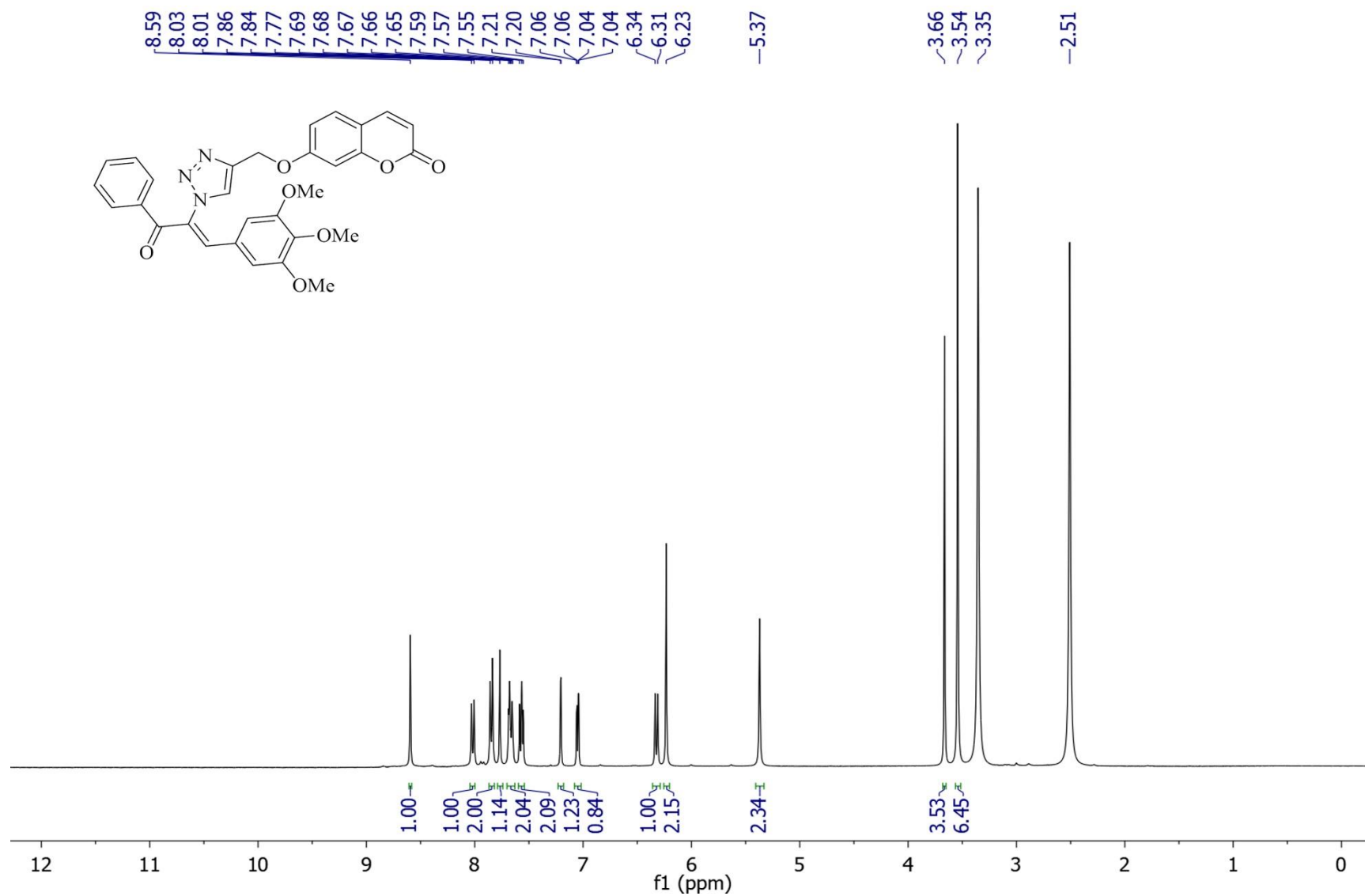
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(20t)



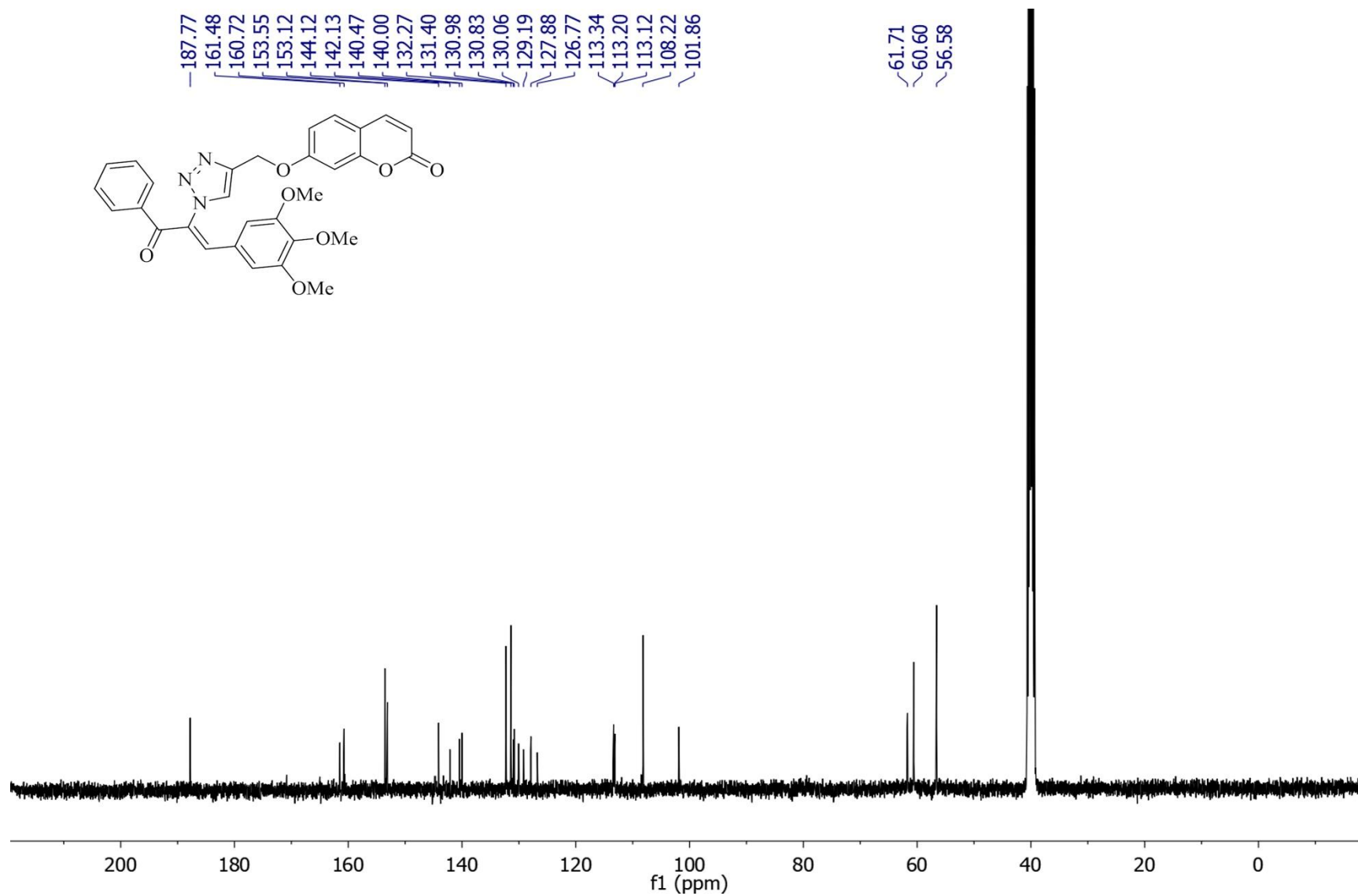
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(20t)



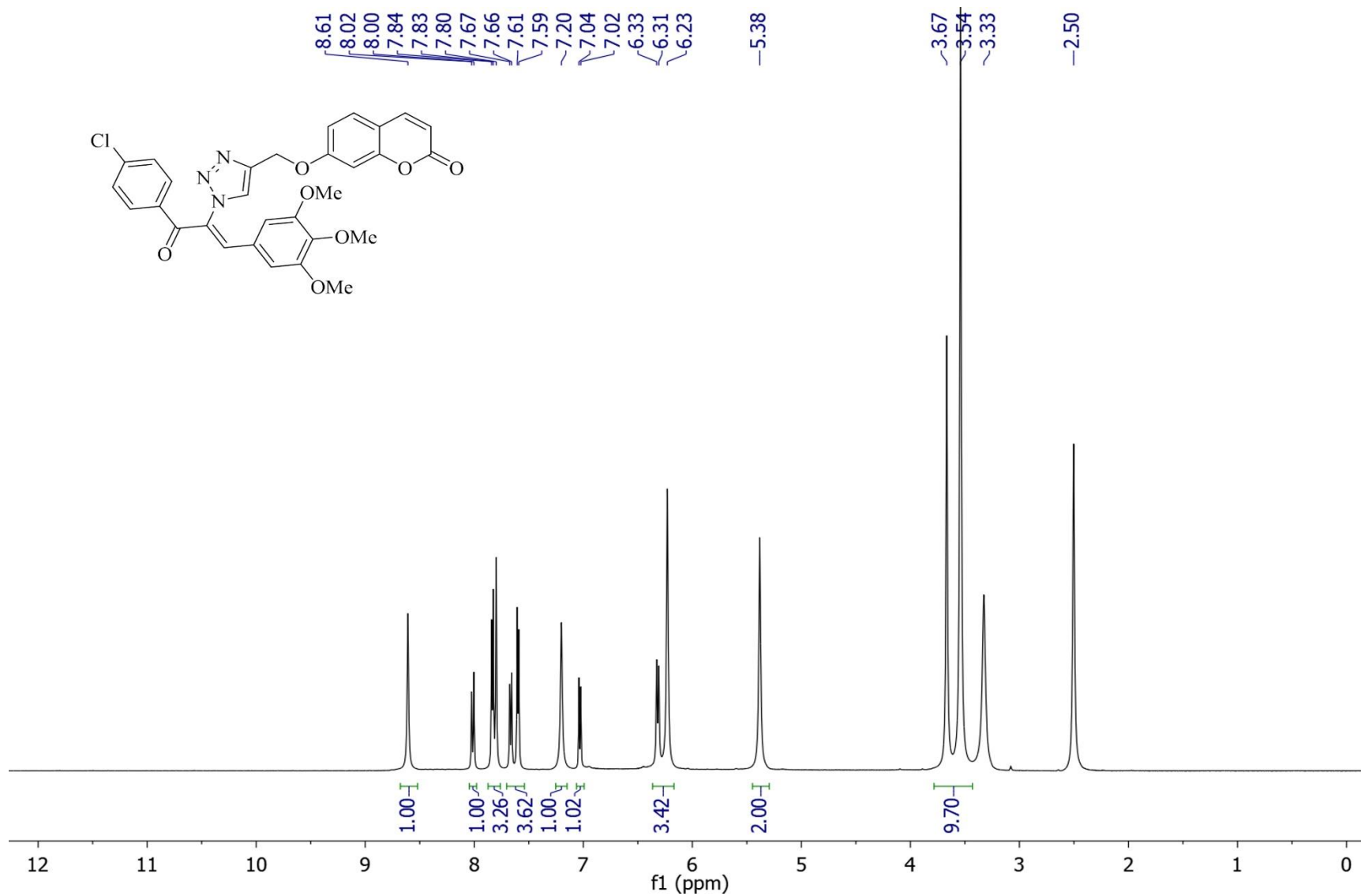
^1H NMR spectrum of 7-((1-(3-oxo-3-phenyl-1-(3,4,5-trimethoxyphenyl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20u**)



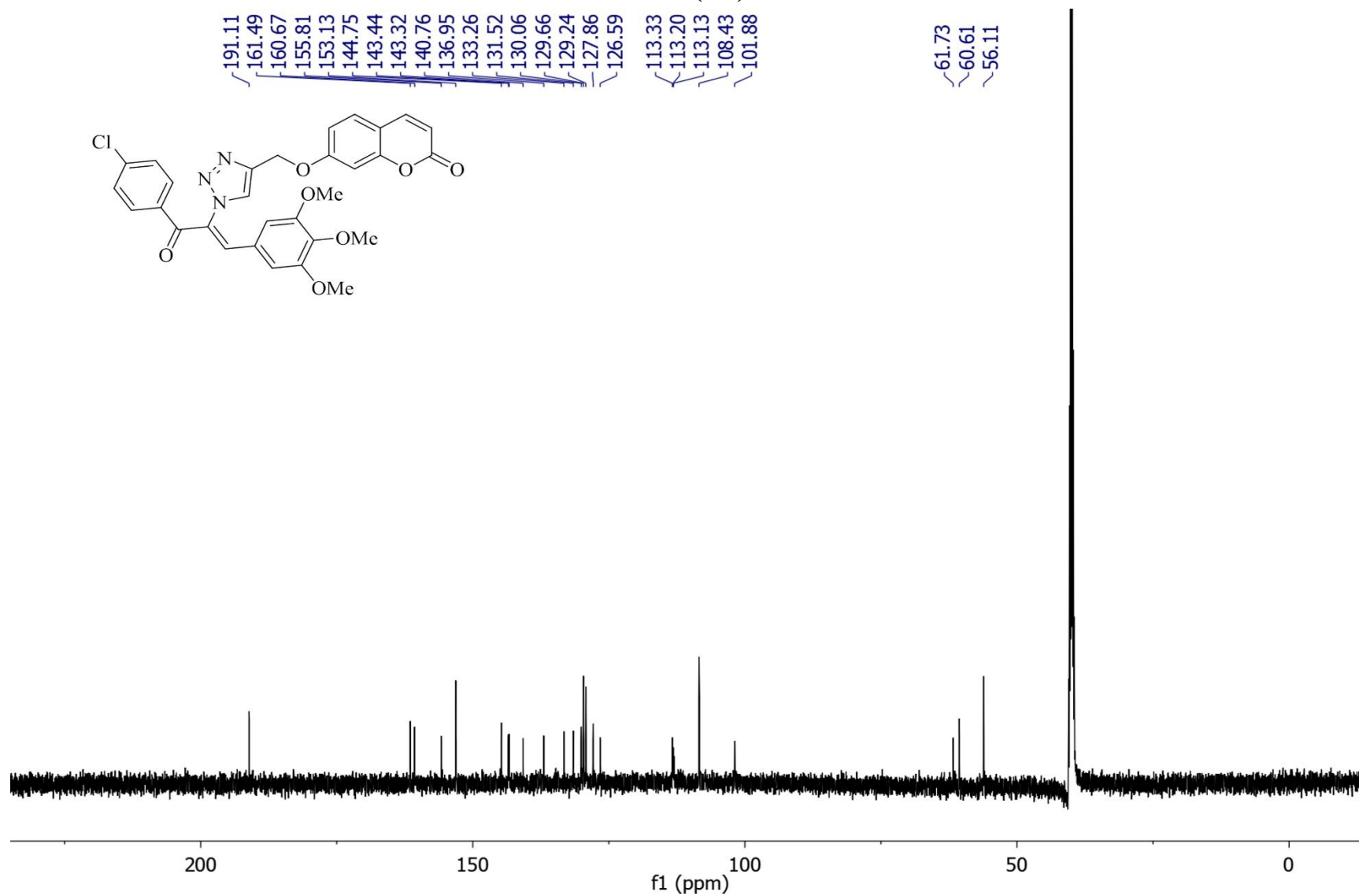
^{13}C NMR spectrum of 7-((1-(3-oxo-3-phenyl-1-(3,4,5-trimethoxyphenyl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20u**)



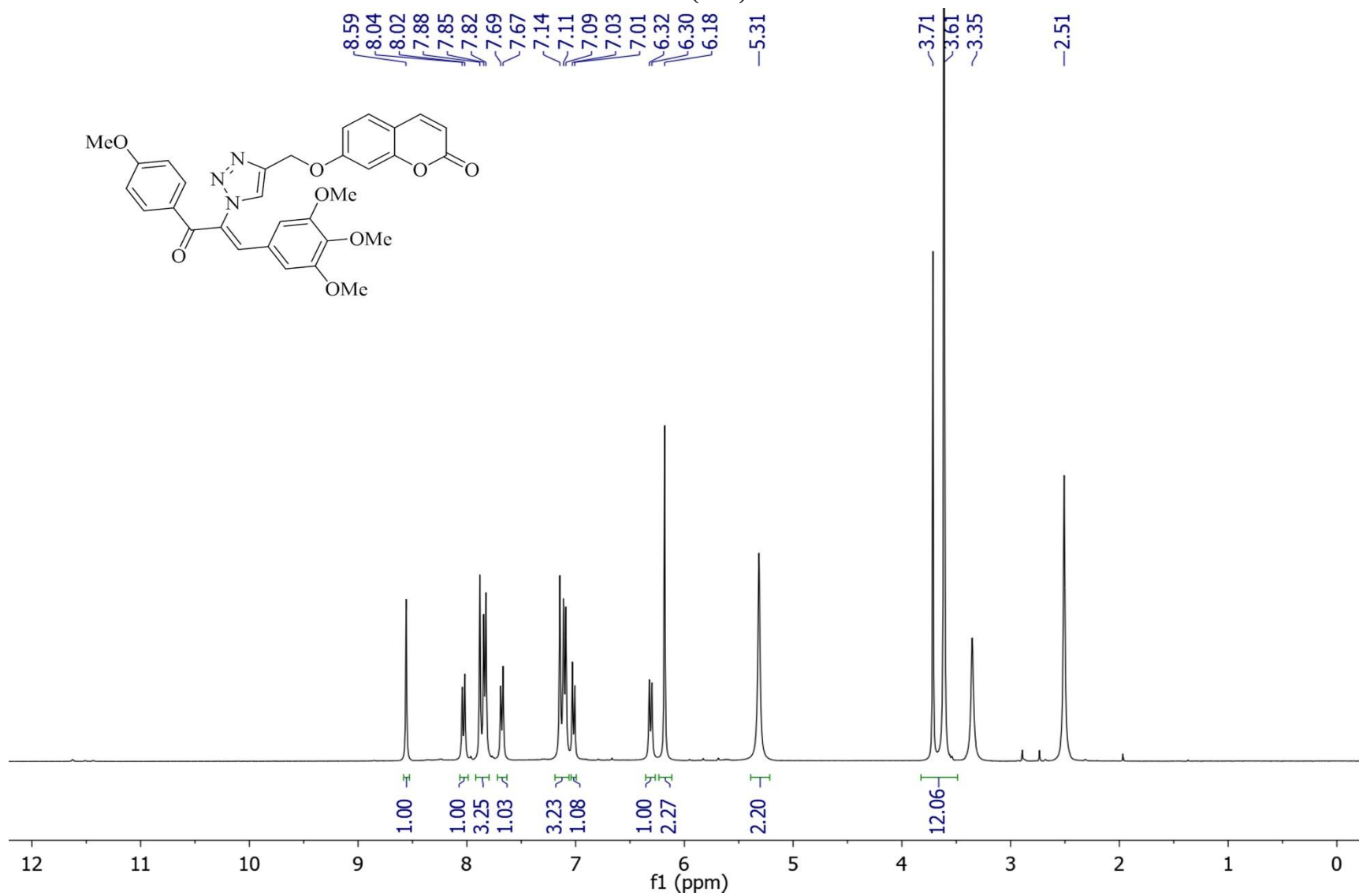
^1H NMR spectrum of 7-((1-(3-(4-chlorophenyl)-3-oxo-1-(3,4,5-trimethoxyphenyl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (20v)



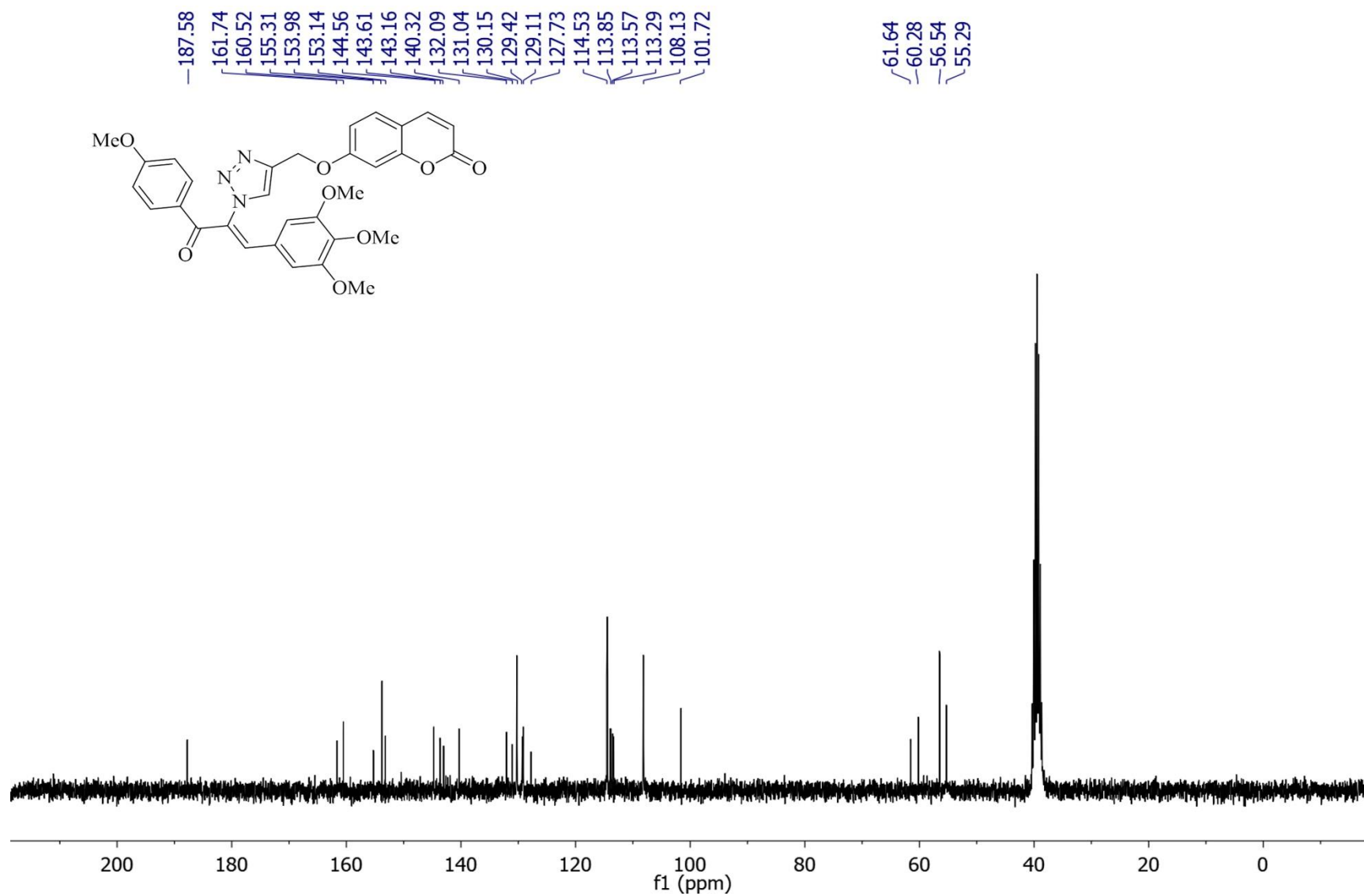
^{13}C NMR spectrum of 7-((1-(3-(4-chlorophenyl)-3-oxo-1-(3,4,5-trimethoxyphenyl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20v**)



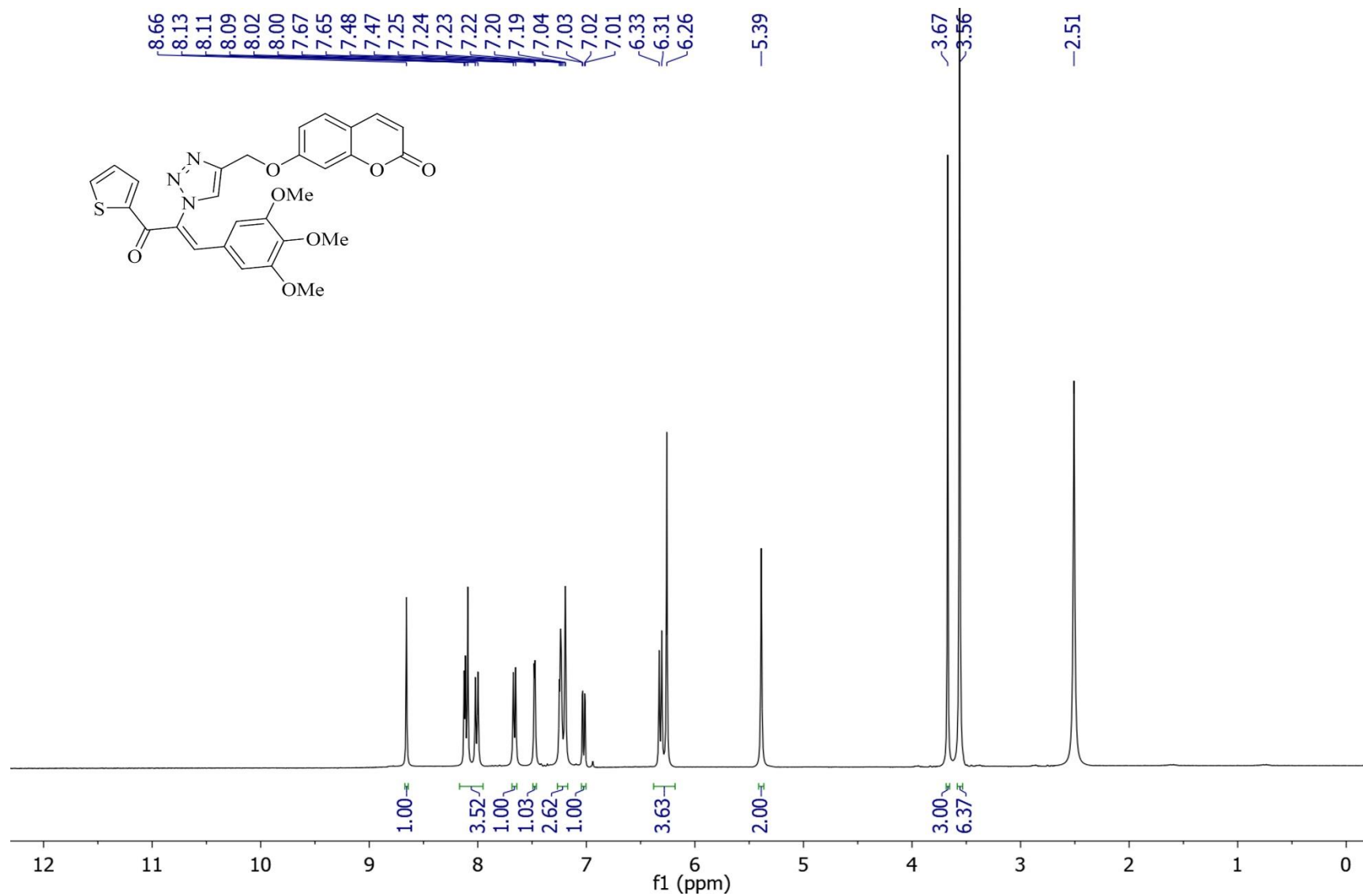
^1H NMR spectrum of 7-((1-(3-(4-methoxyphenyl)-3-oxo-1-(3,4,5-trimethoxyphenyl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20w**)



^{13}C NMR spectrum of 7-((1-(3-(4-methoxyphenyl)-3-oxo-1-(3,4,5-trimethoxyphenyl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20w**)



¹H NMR spectrum of 7-((1-(3-oxo-3-(thiophen-2-yl)-1-(3,4,5-trimethoxyphenyl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (**20x**)



^{13}C NMR spectrum of 7-((1-(3-oxo-3-(thiophen-2-yl)-1-(3,4,5-trimethoxyphenyl)prop-1-en-2-yl)-1H-1,2,3-triazol-4-yl)methoxy)-2H-chromen-2-one (20x)

