

**Iodine-Catalyzed Synthesis of Dibenzo[*b,h*][1,6]naphthyridine-11-carboxamides *via* a Domino Reaction Involving
Double Elimaiton of Hydrogen Bromide**

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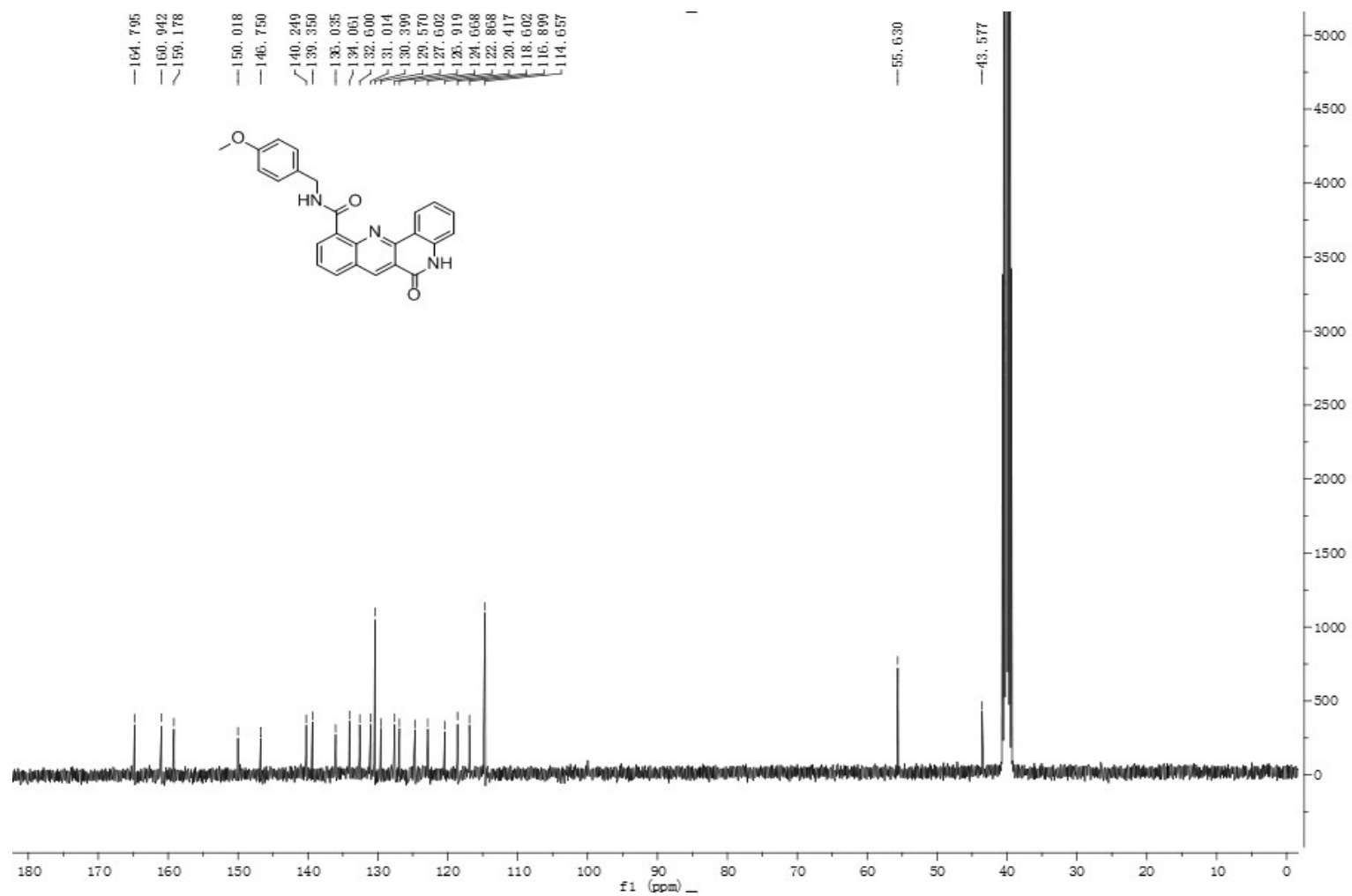
xswang1974@yahoo.com

Supporting Information

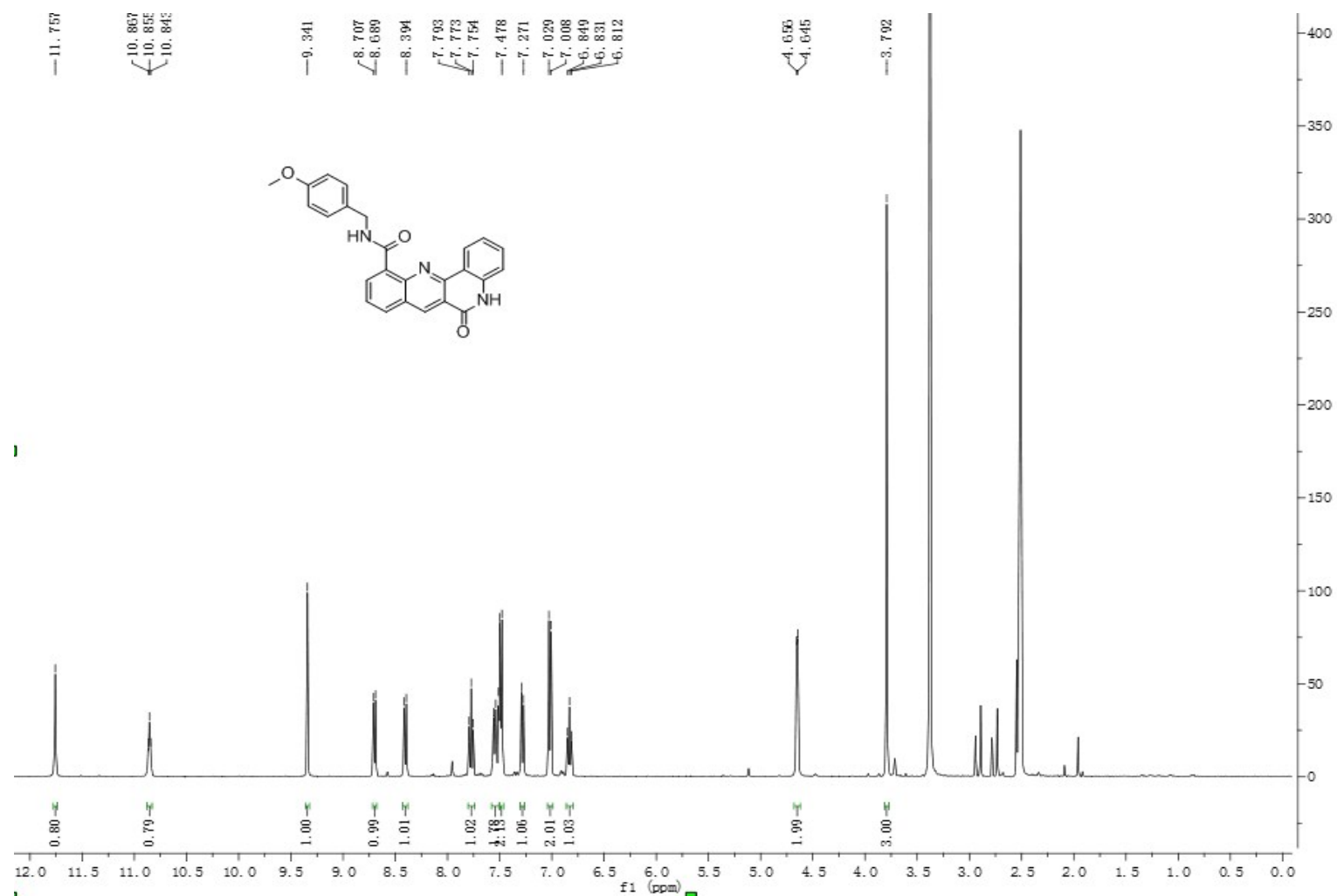
Page

¹H and ¹³C NMR spectra for compounds **3a-3r**

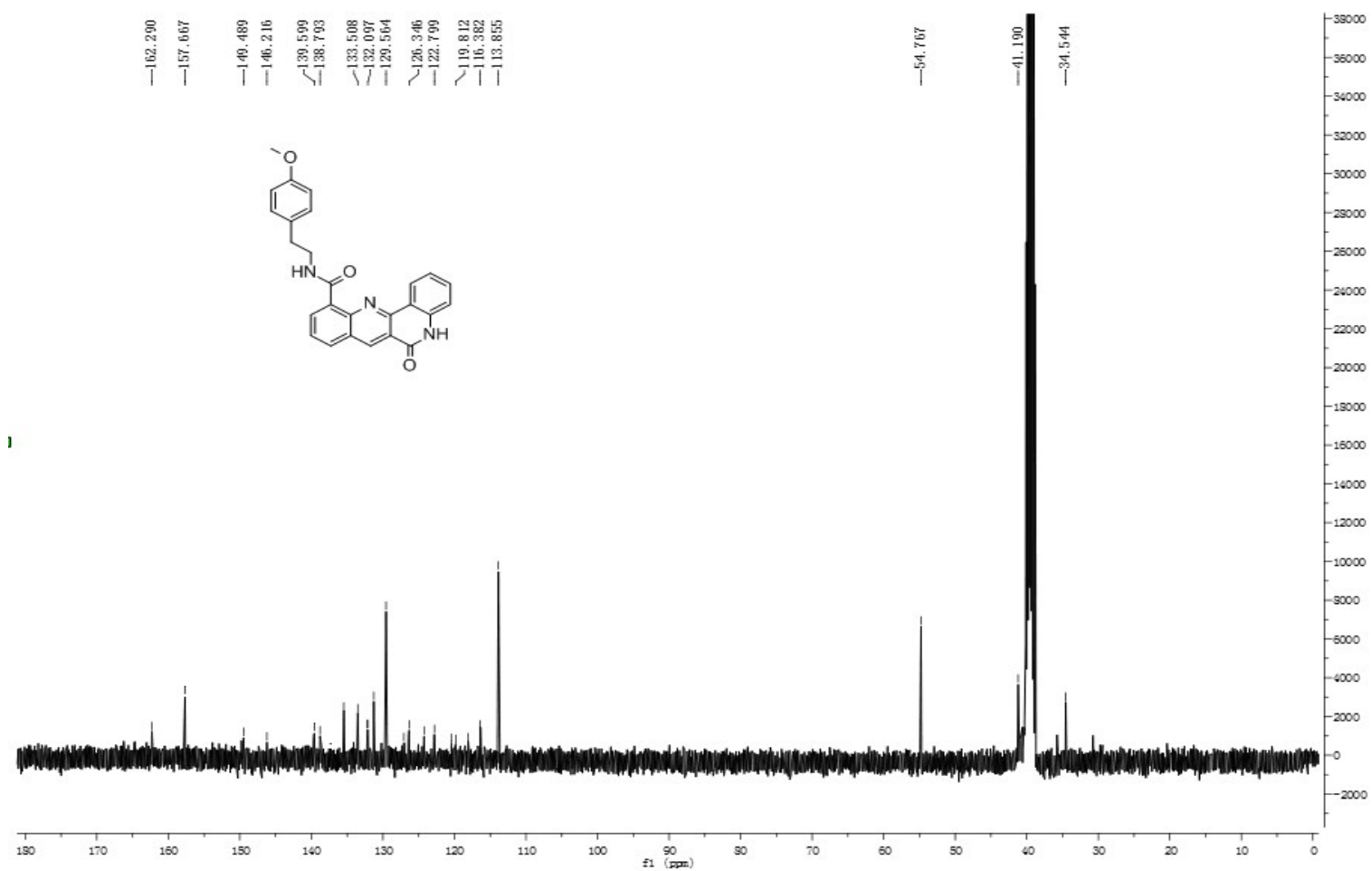
S2-S37



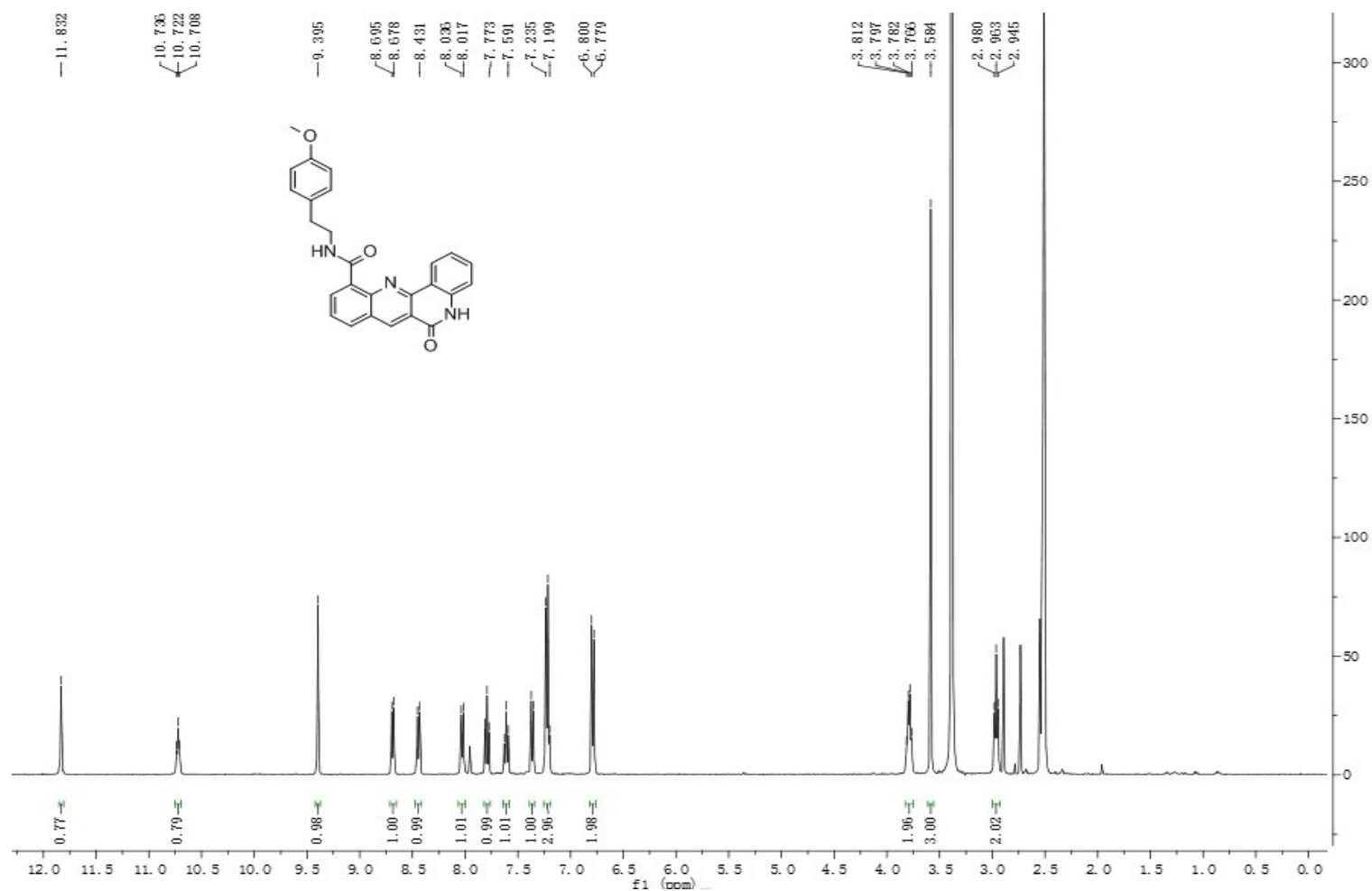
N-(4-Methoxybenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3a**)



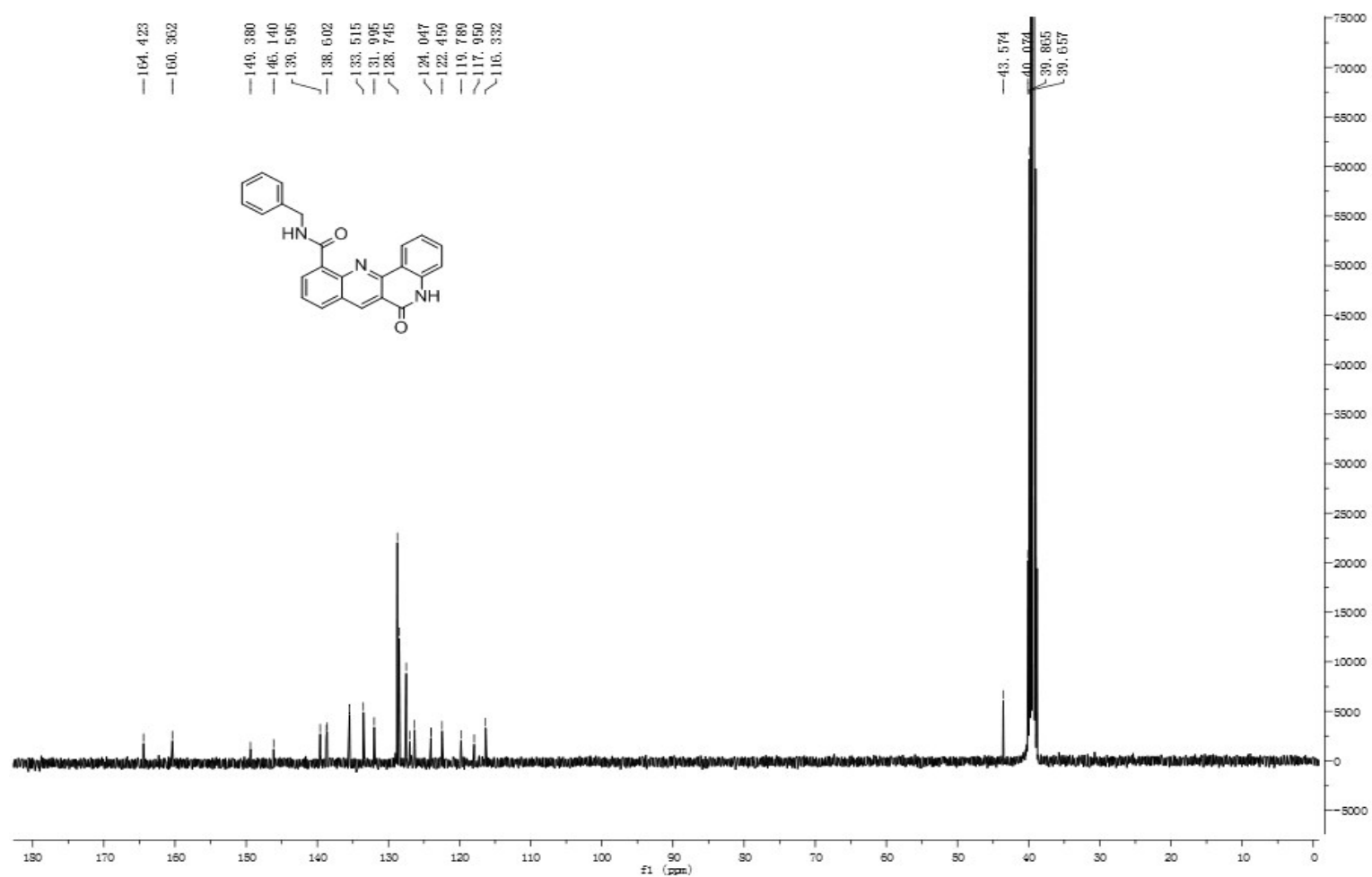
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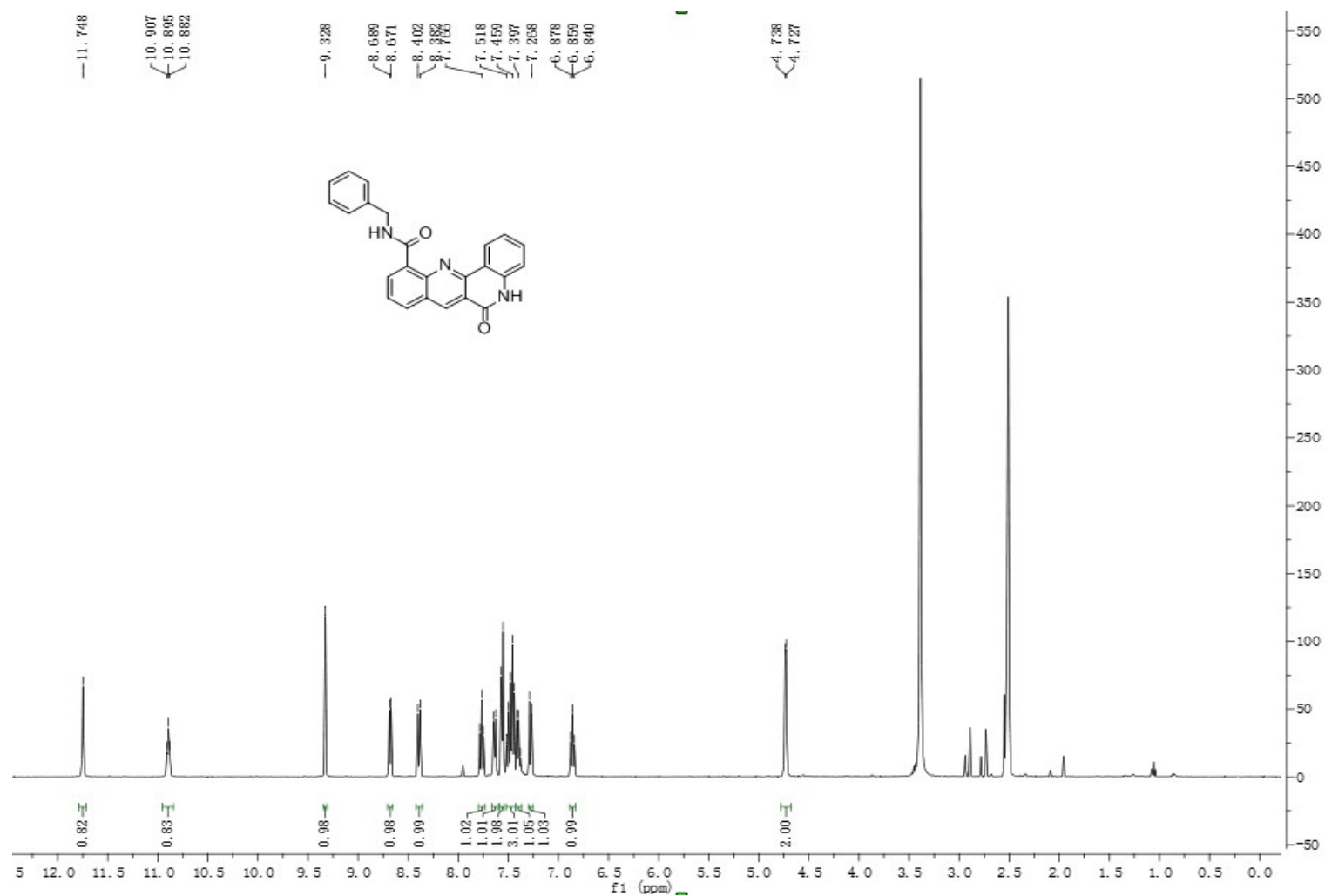
N-(4-Methoxyphenethyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3b**)



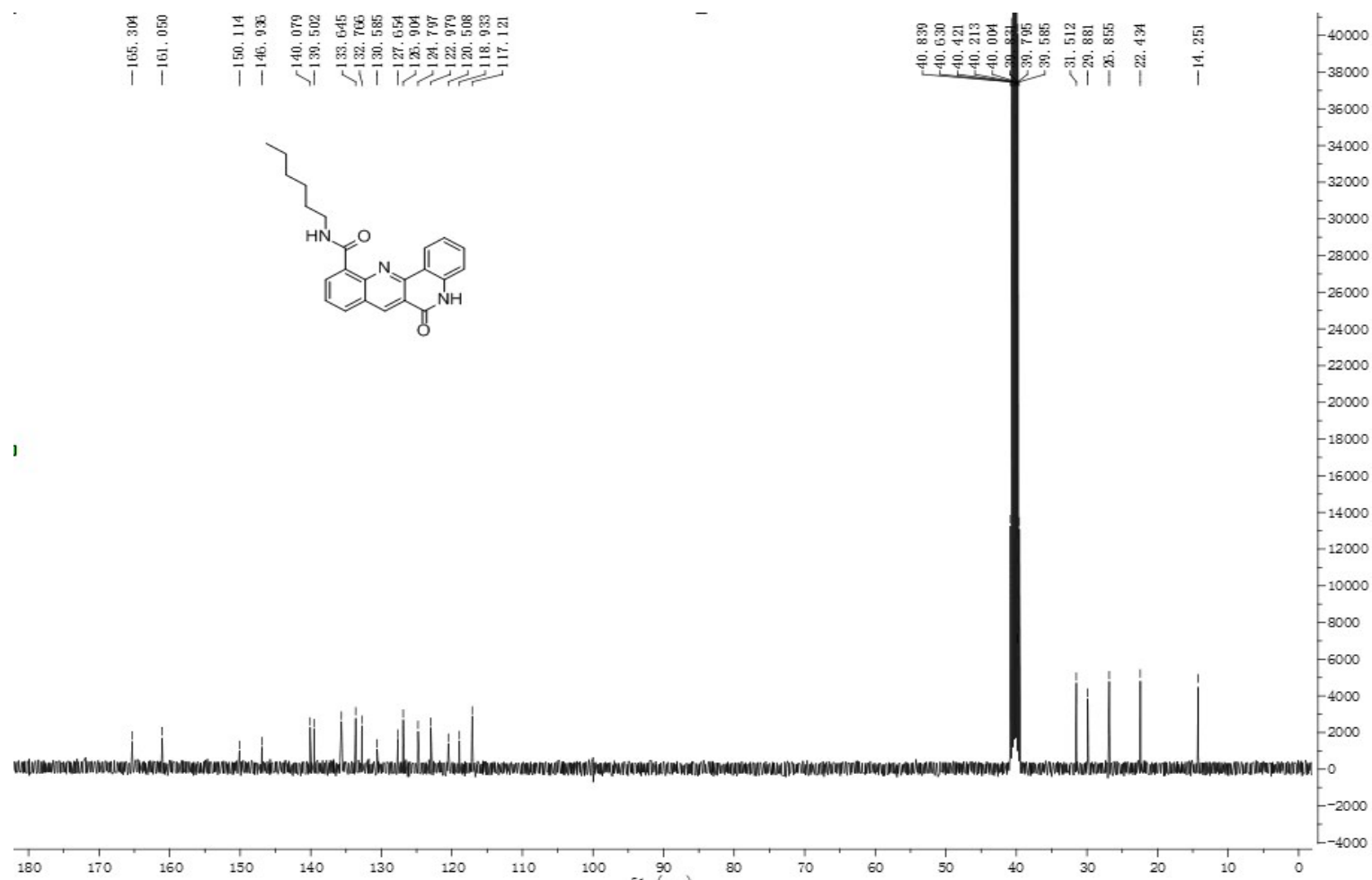
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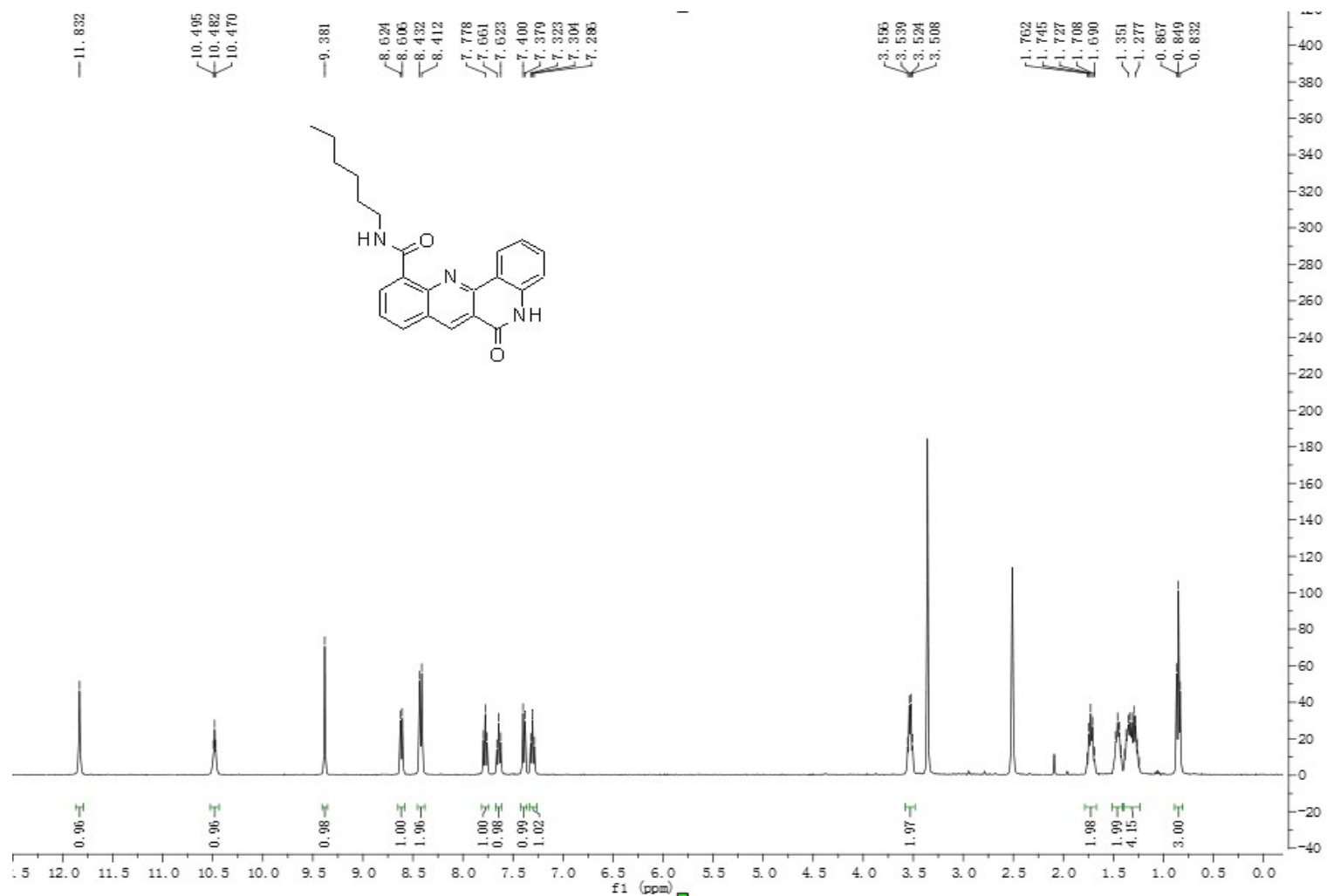
N-Benzyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3c**)



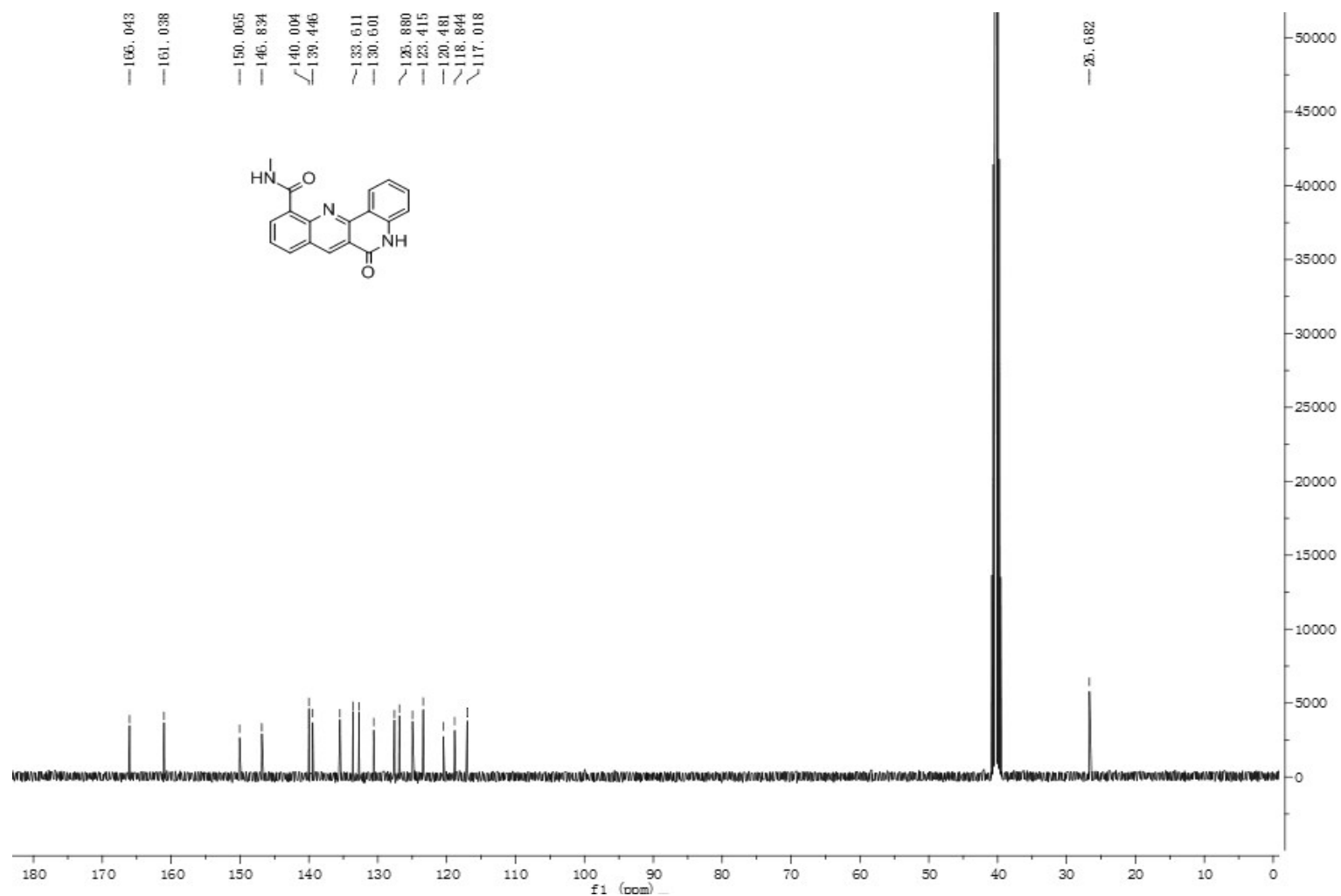
N-Benzyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3c**)



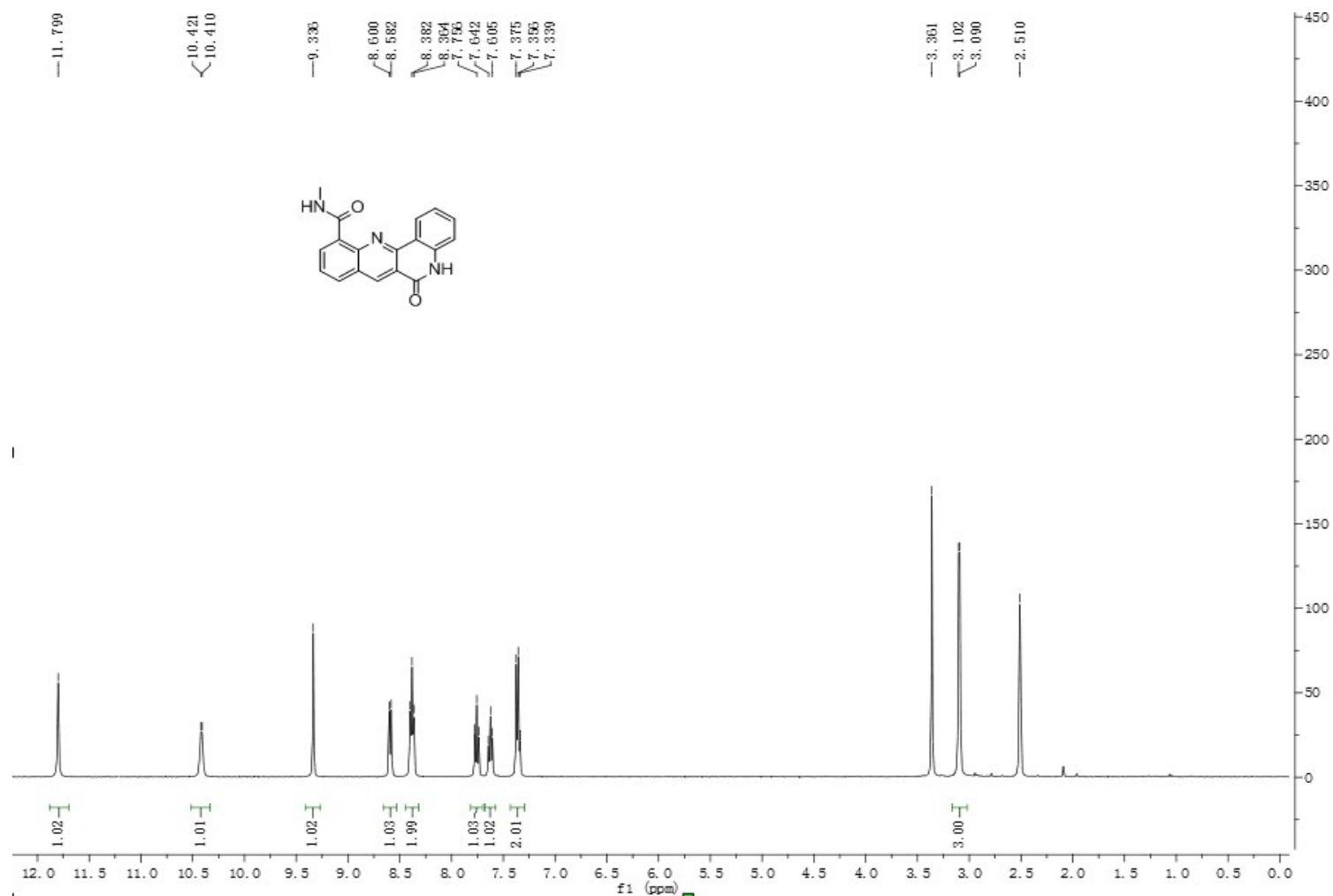
N-Hexyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3d**)



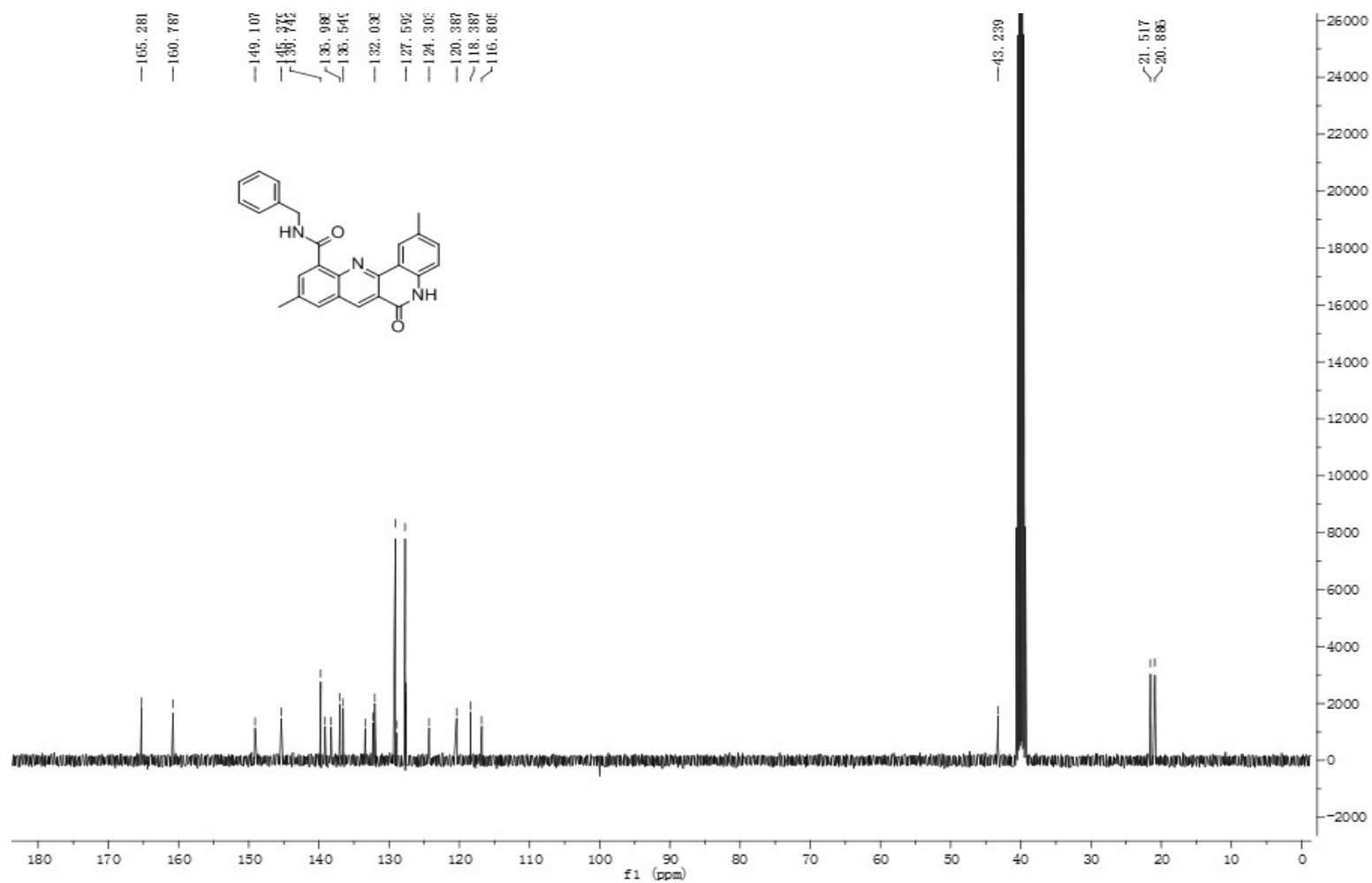
N-Hexyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3d**)



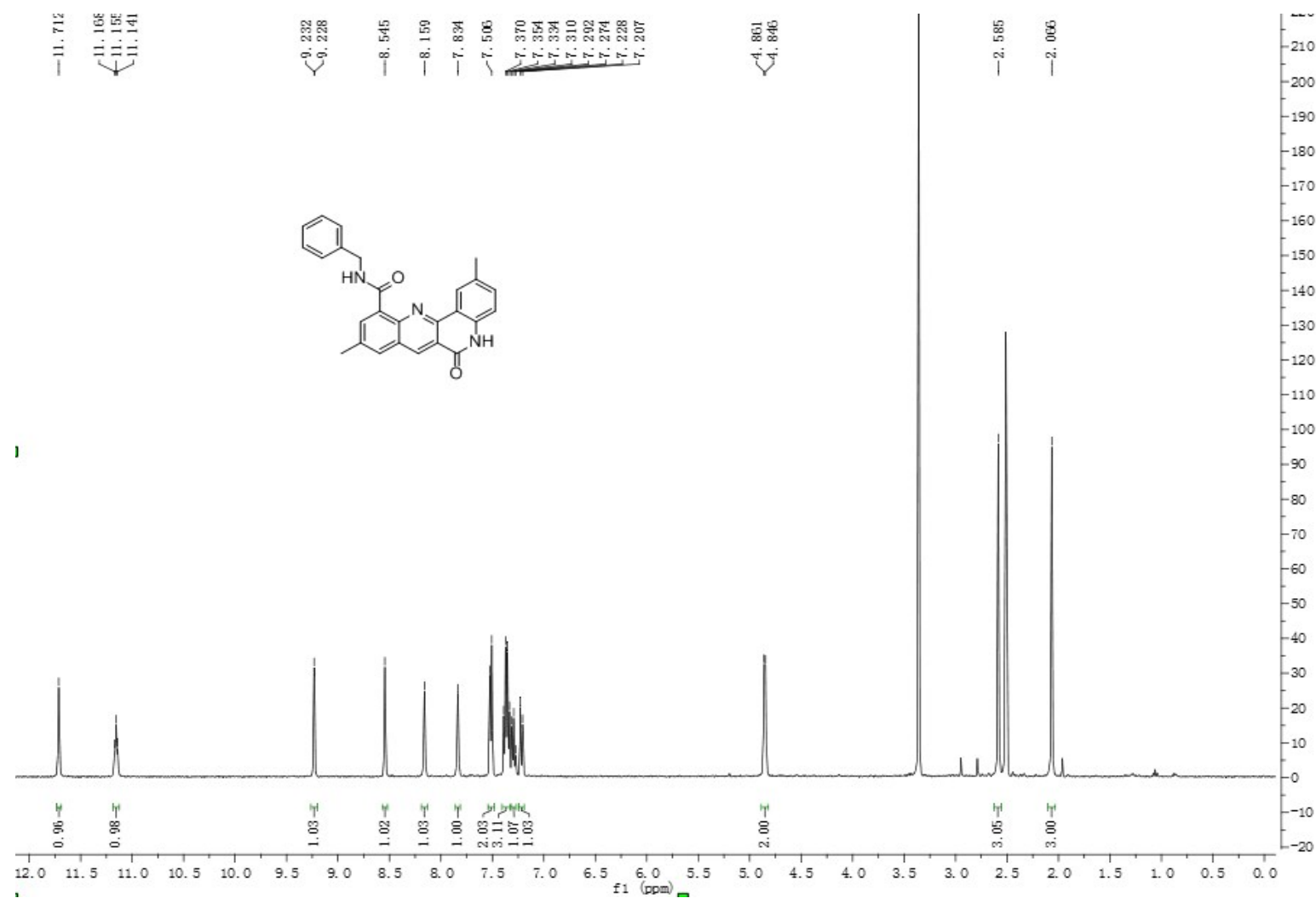
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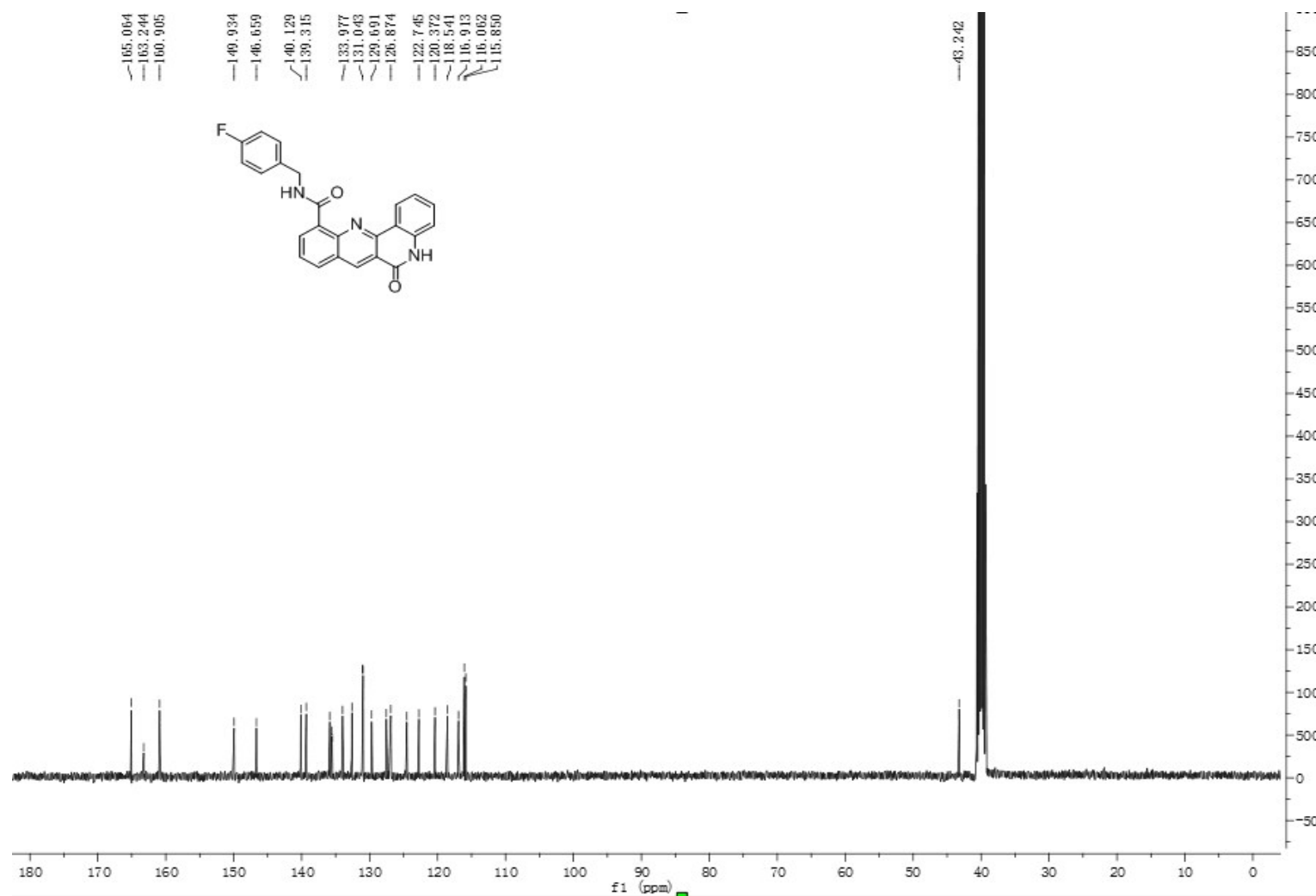
N-Methyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3e**)



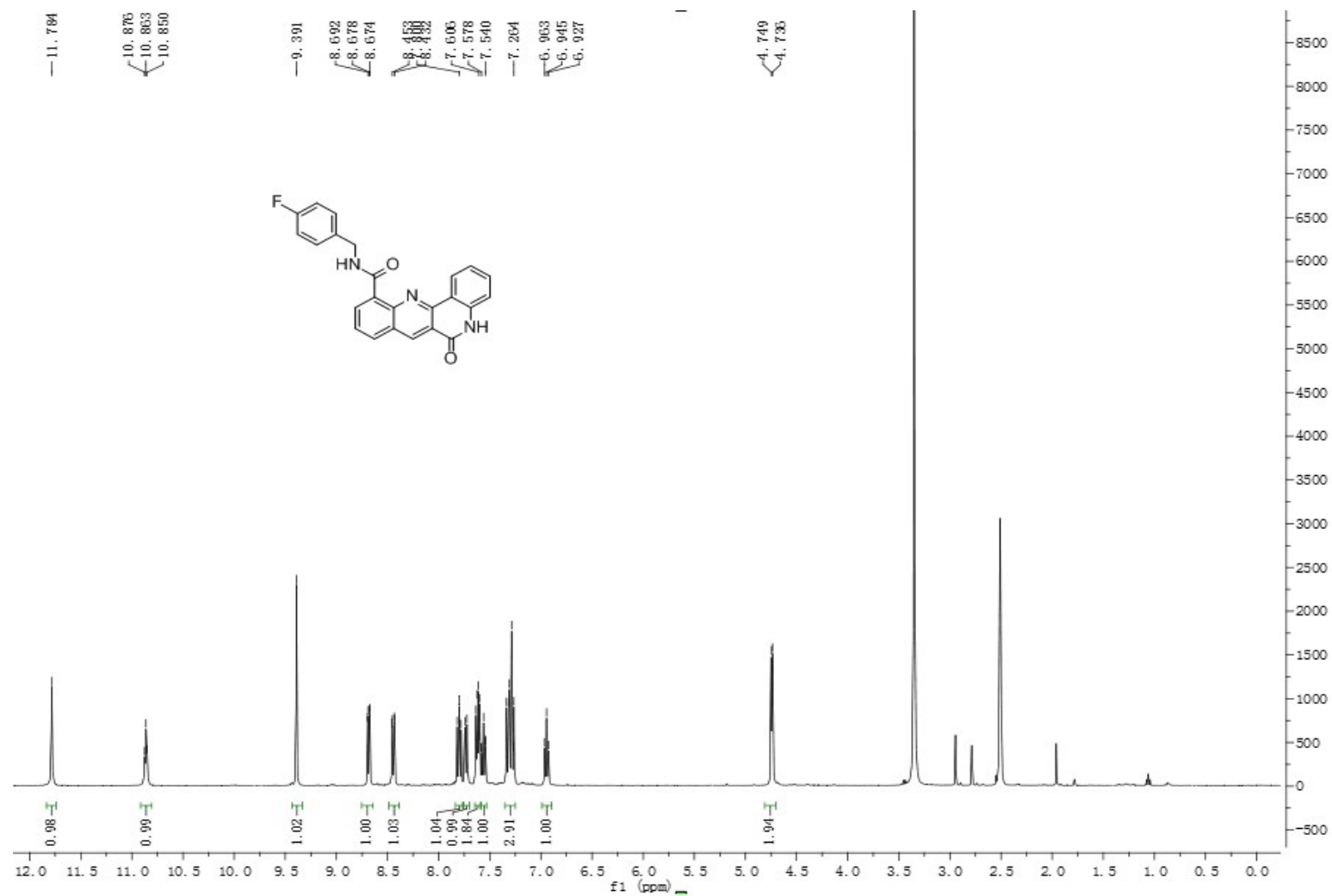
N-Benzyl-2,9-dimethyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3f**)



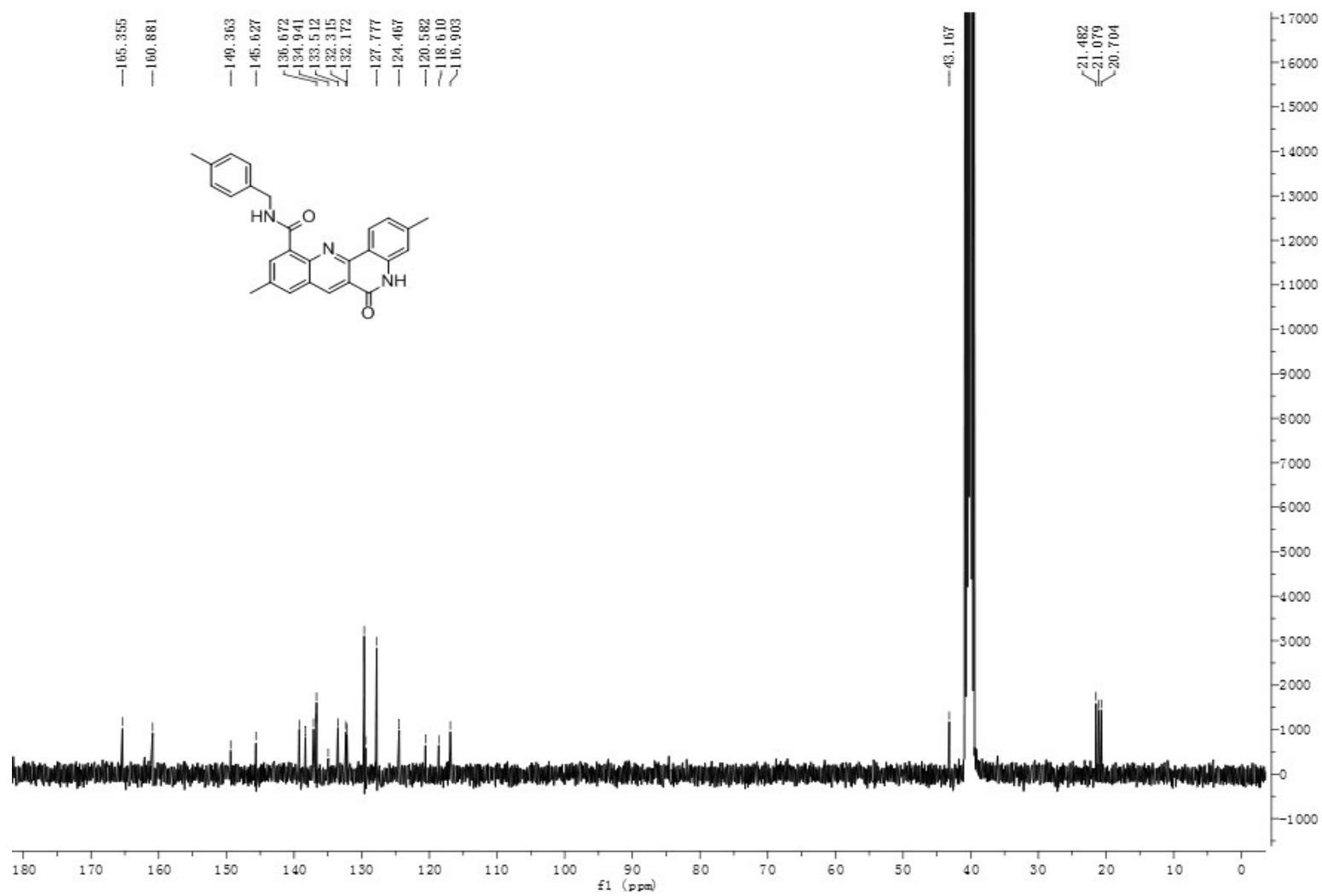
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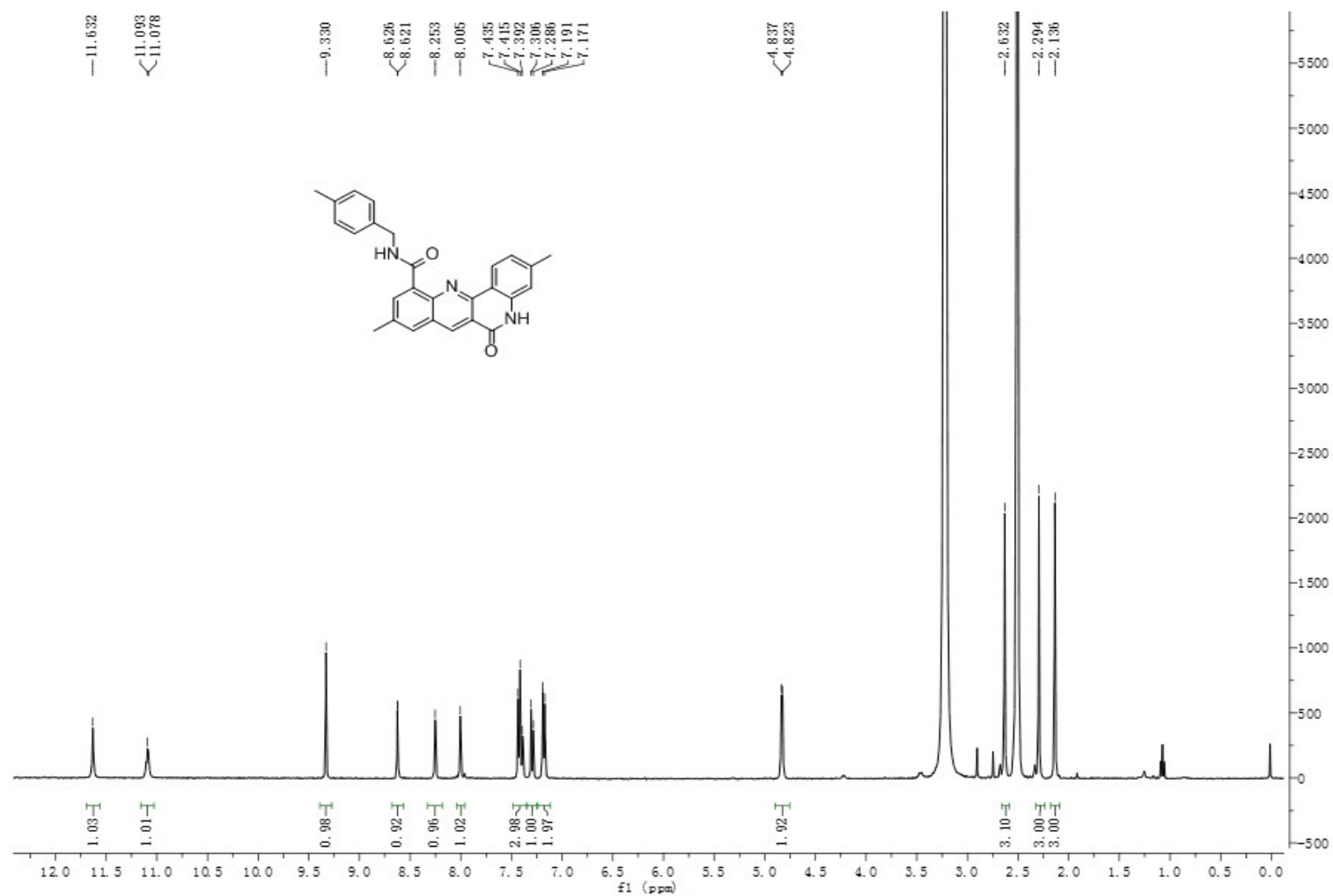
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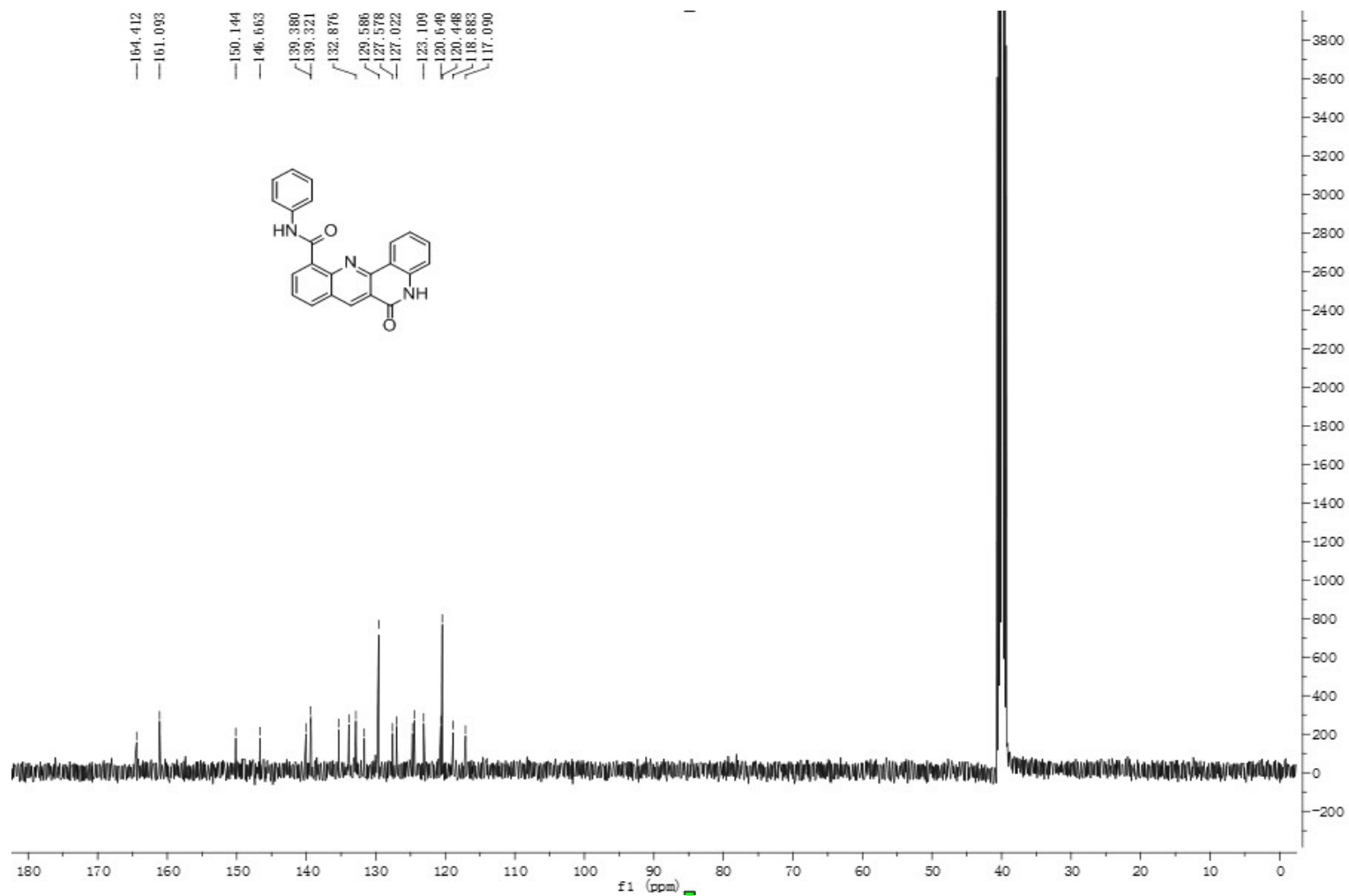
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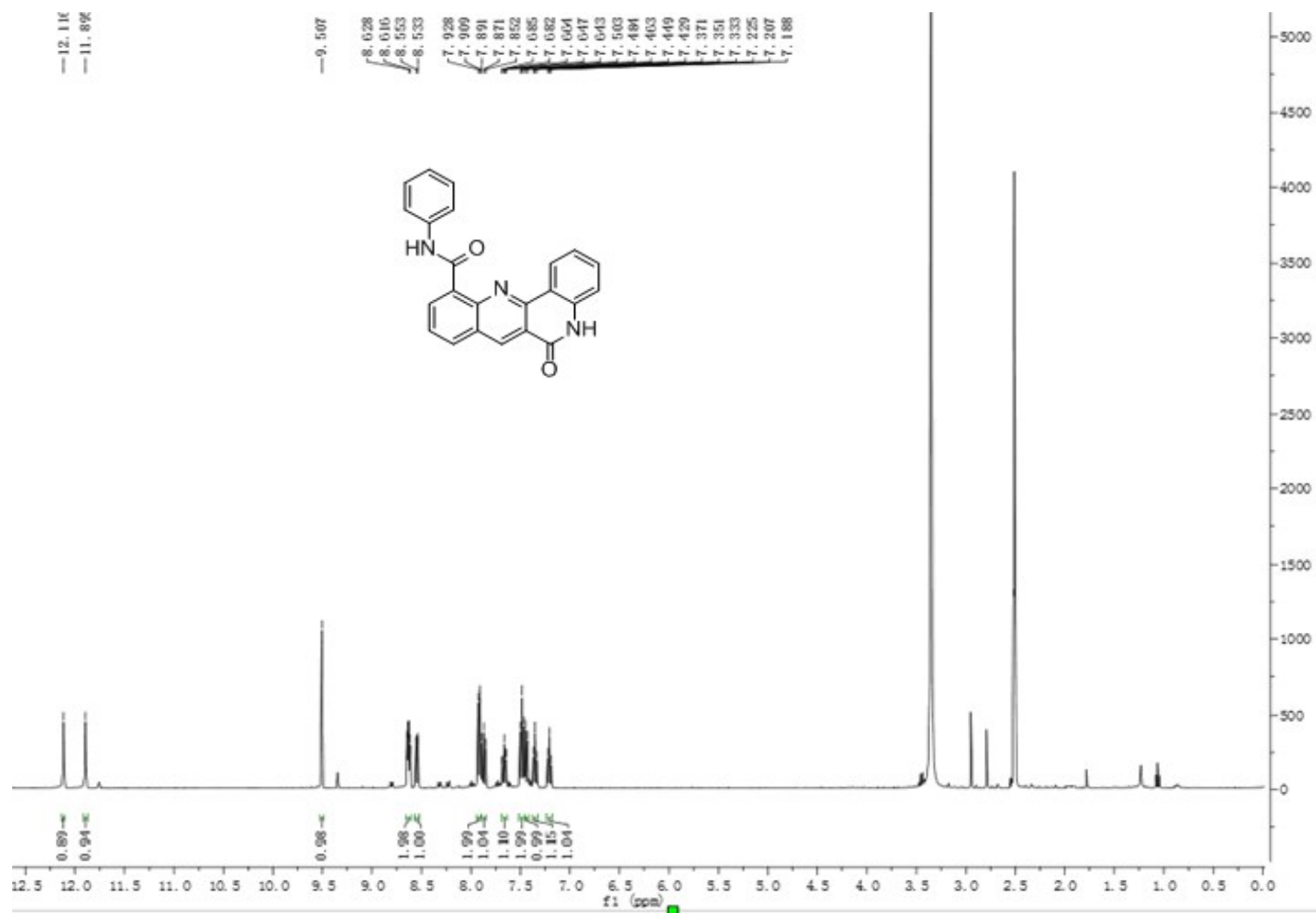
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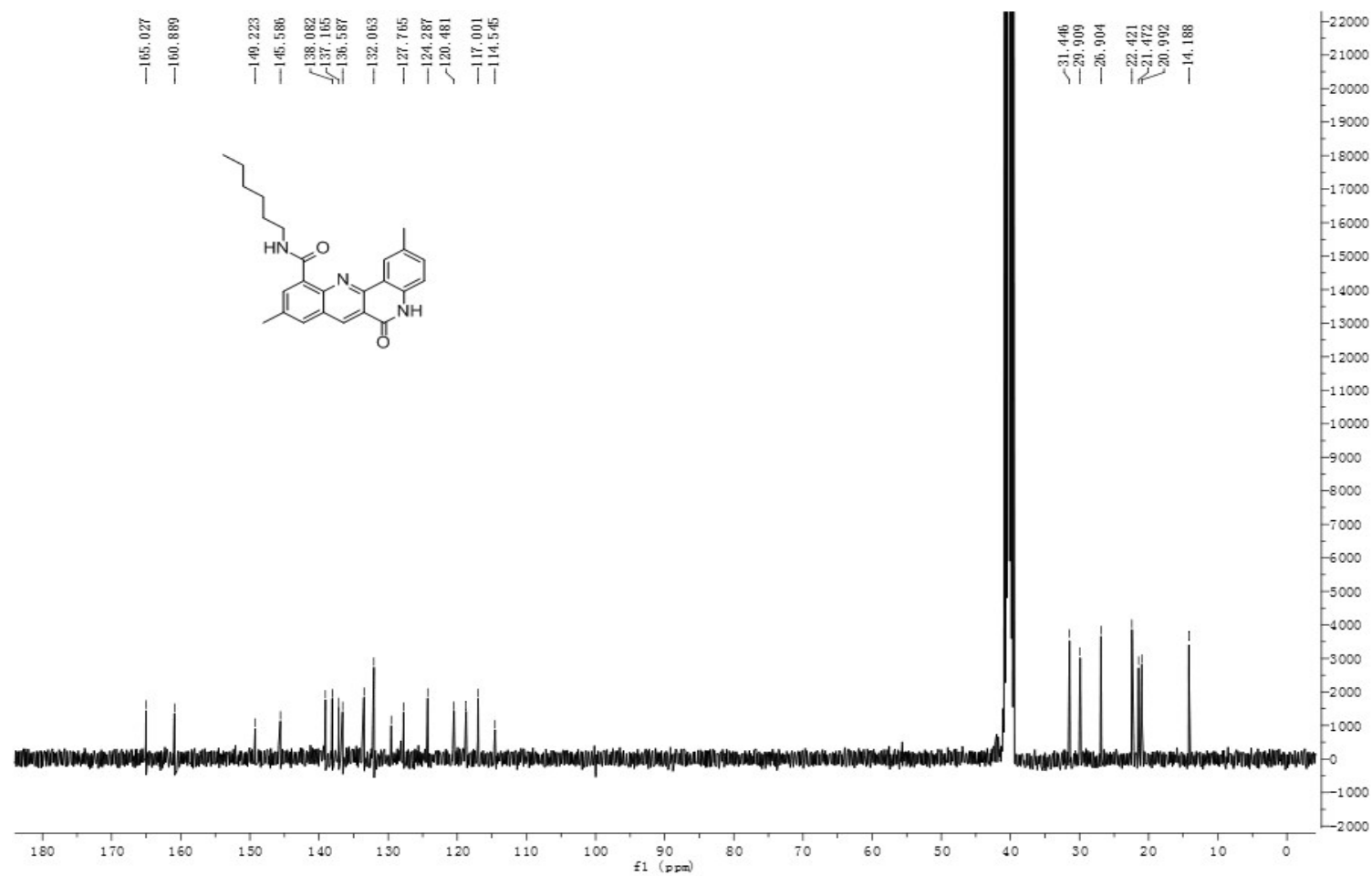
3,9-Dimethyl-N-(4-methylbenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3h**)



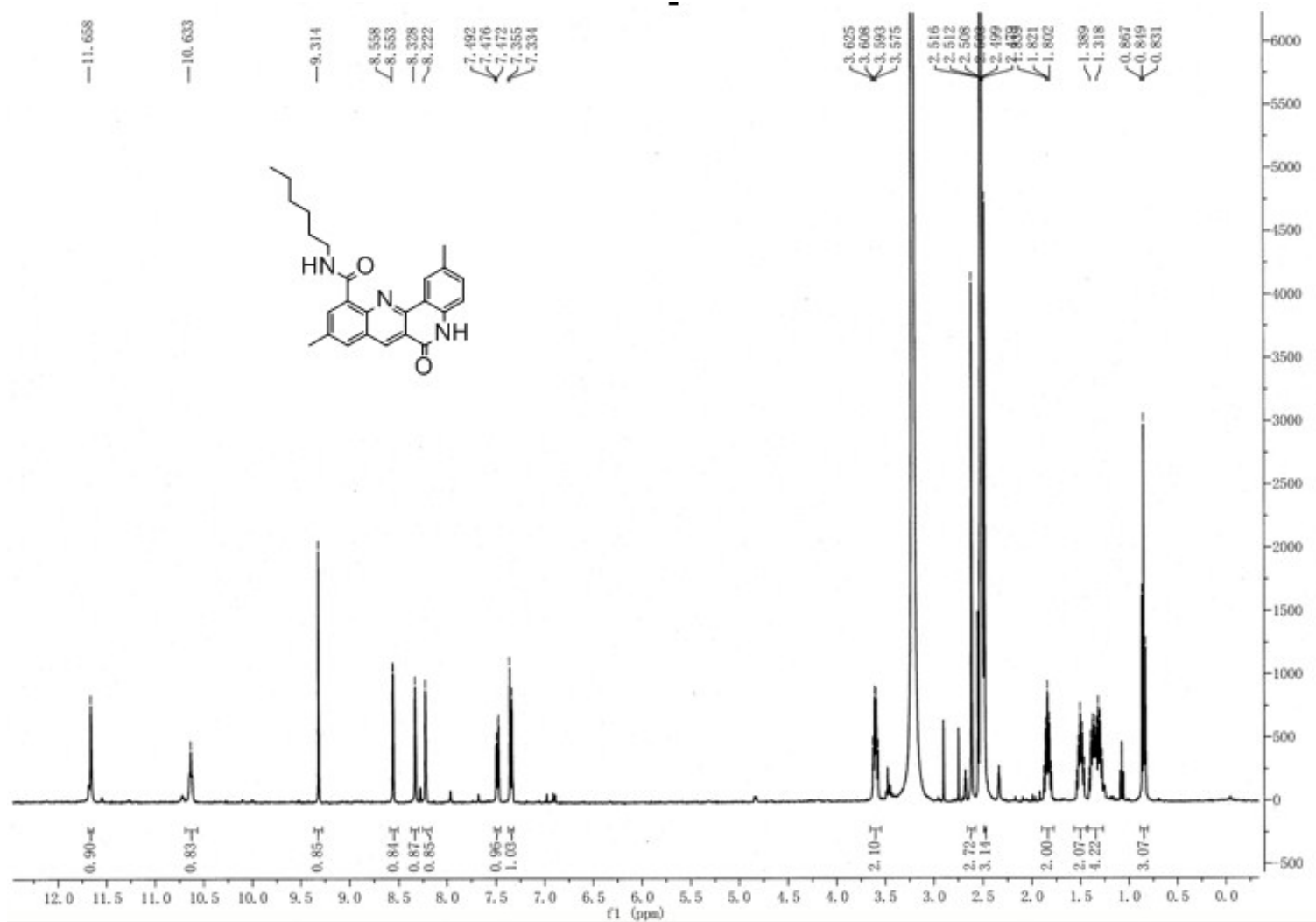
N-Phenyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3i**)



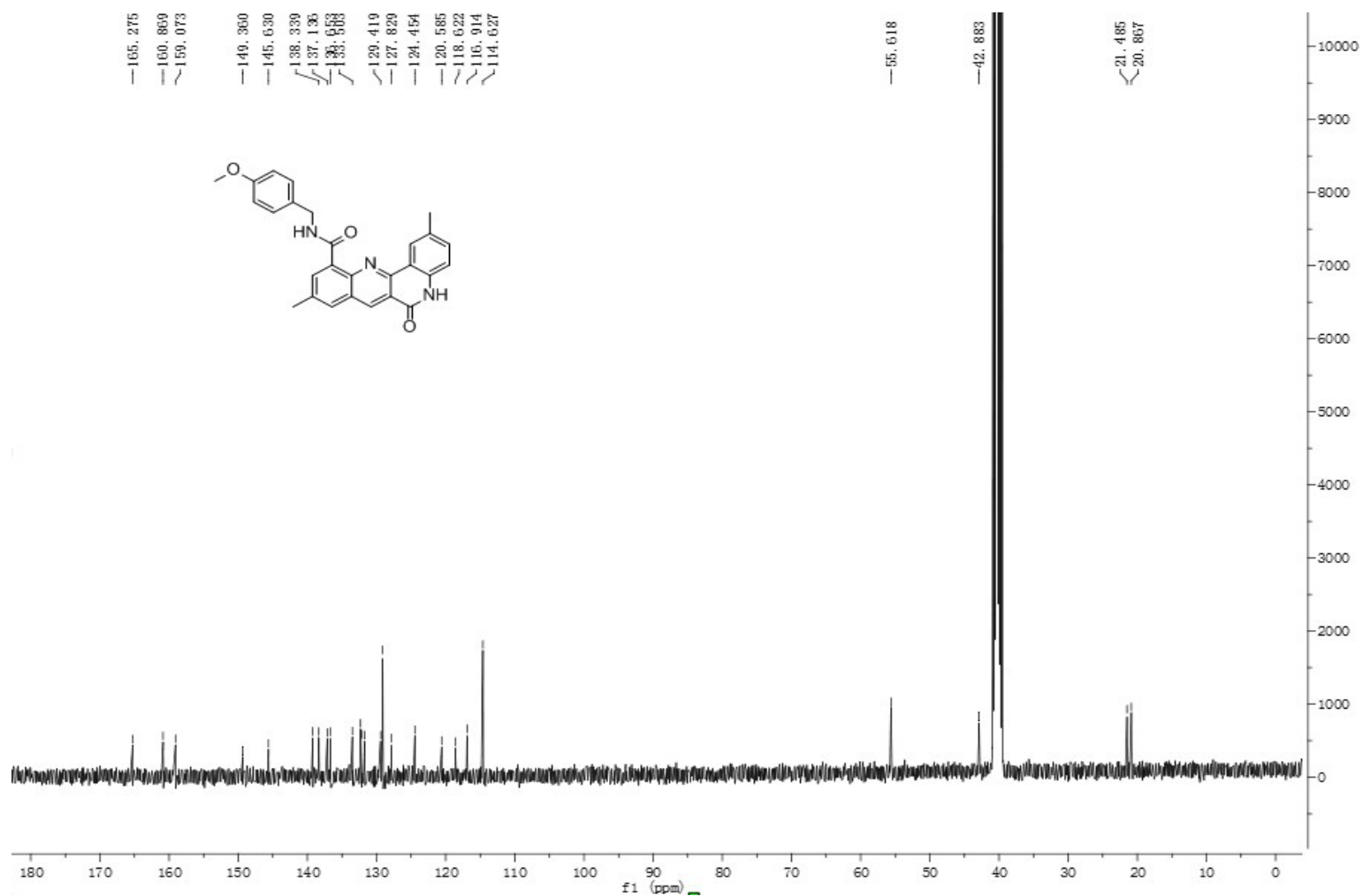
N-Phenyl-6-oxo-5,6-dihydrobenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3i**)



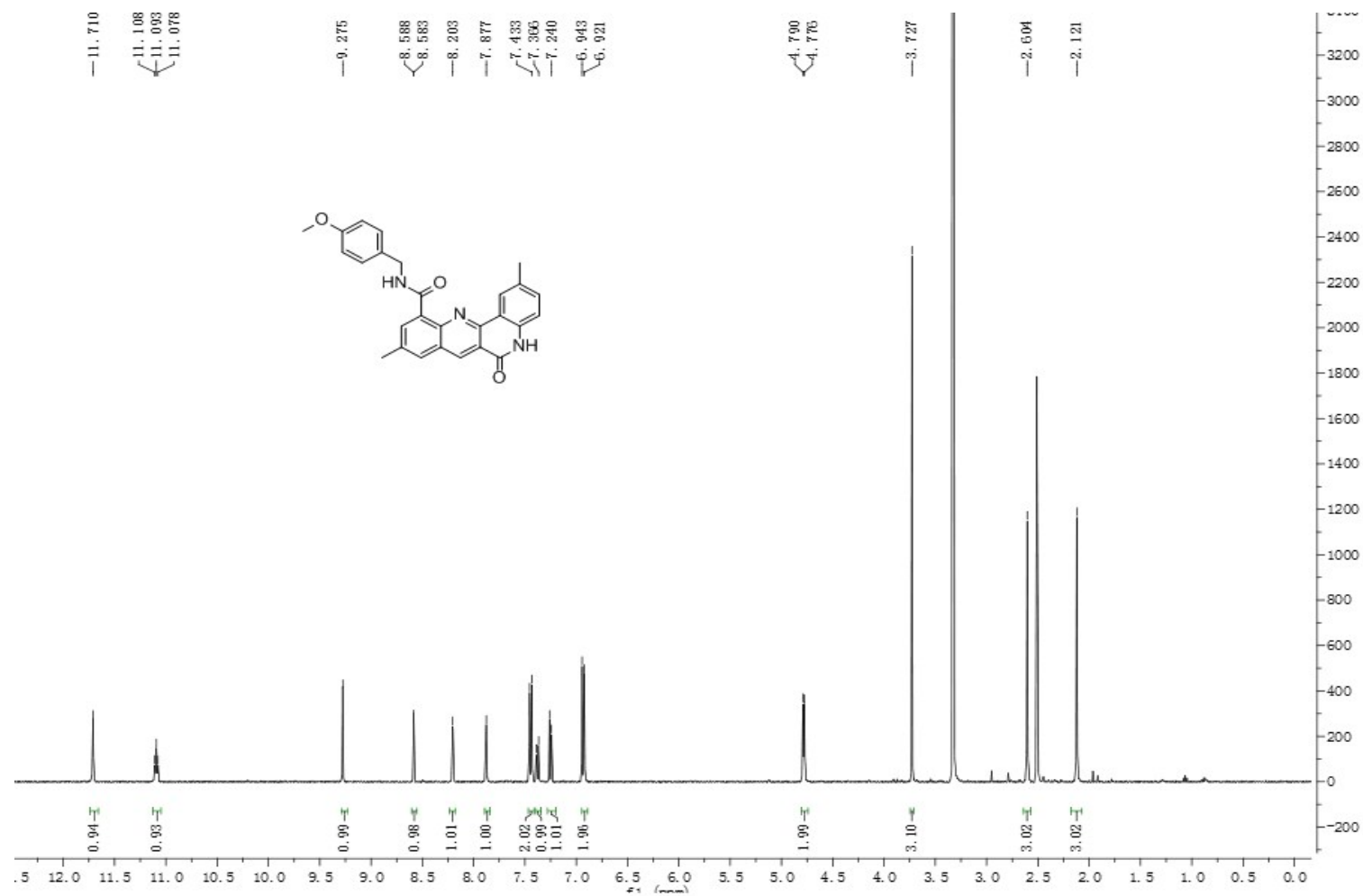
N-Hexyl-2,9-dimethyl-6-oxo-5,6-dihydrobenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3j**)



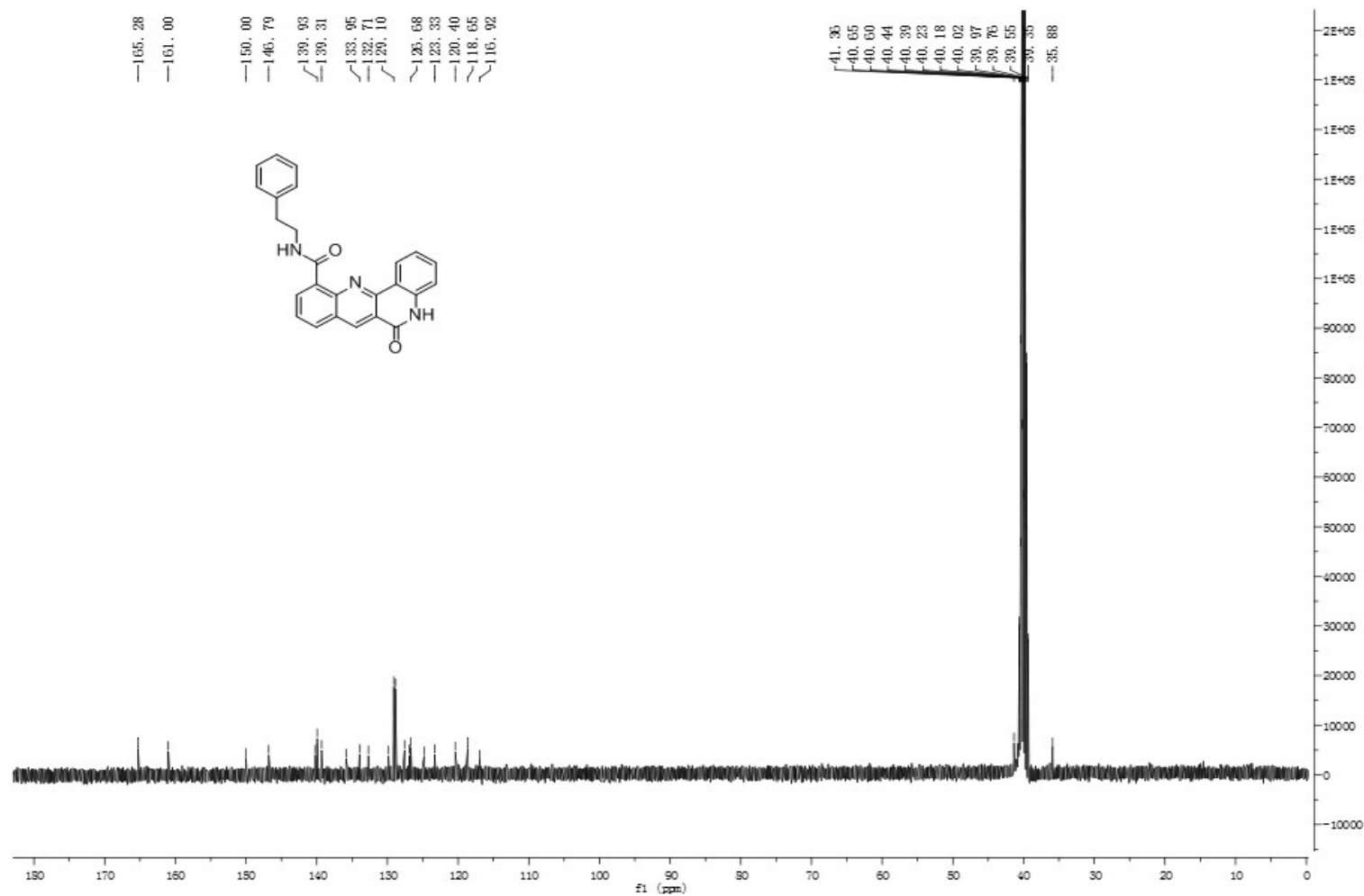
N-Hexyl-2,9-dimethyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3j**)



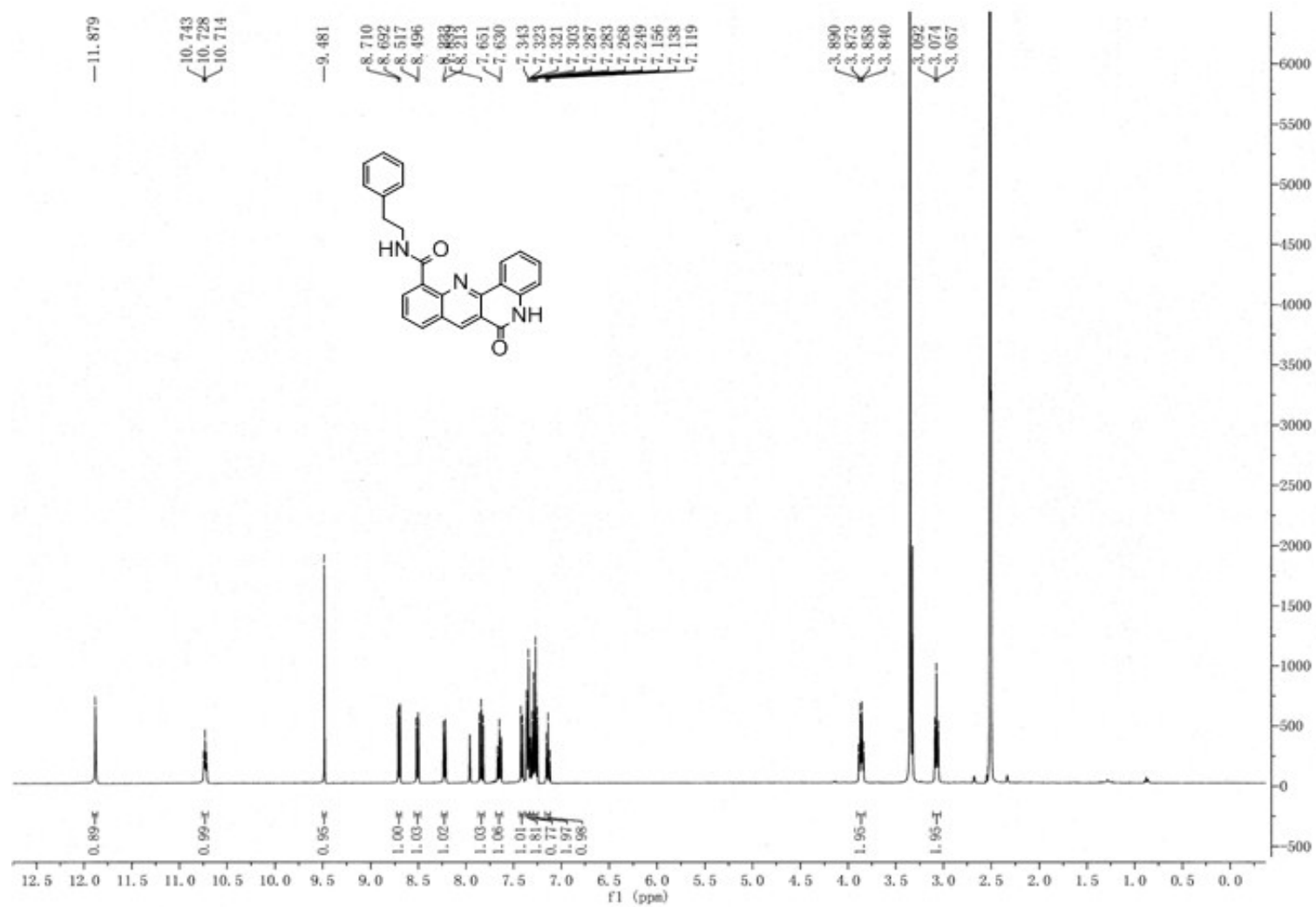
N-(4-Methoxybenzyl)-2,9-dimethyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3k**)



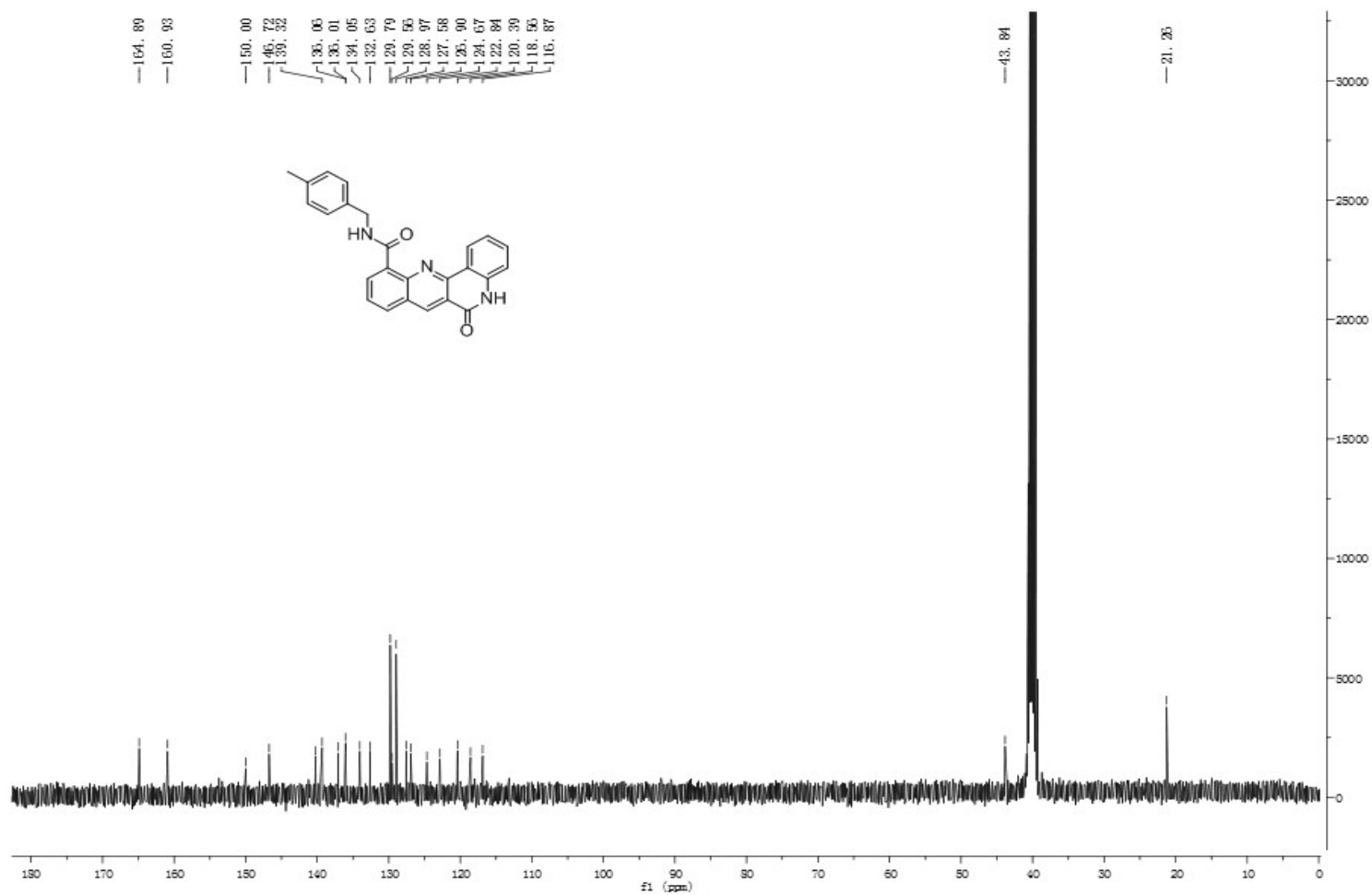
N-(4-Methoxybenzyl)-2,9-dimethyl-6-oxo-5,6-dihydrobenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3k**)



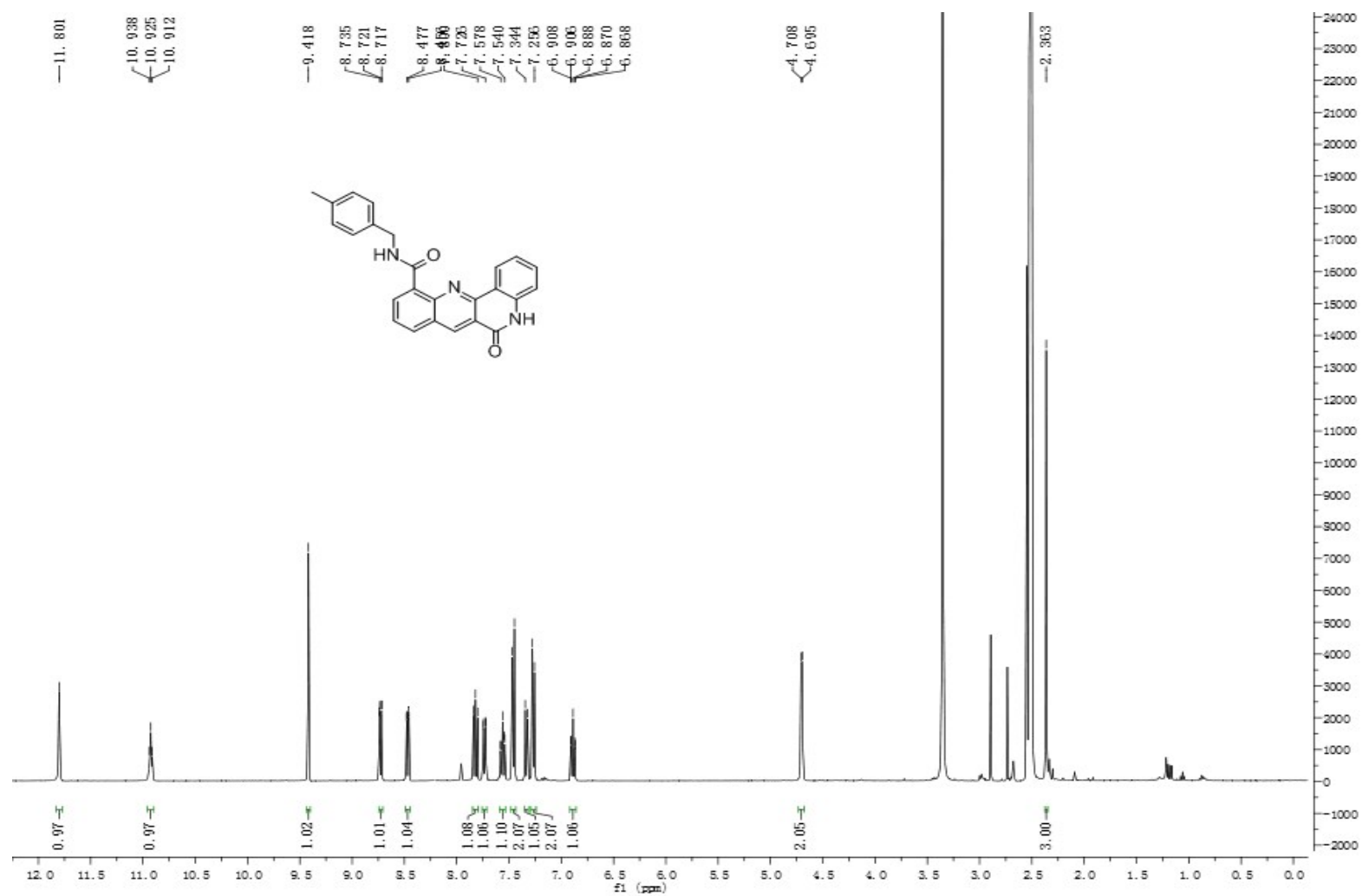
6-Oxo-*N*-phenethyl-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**31**)



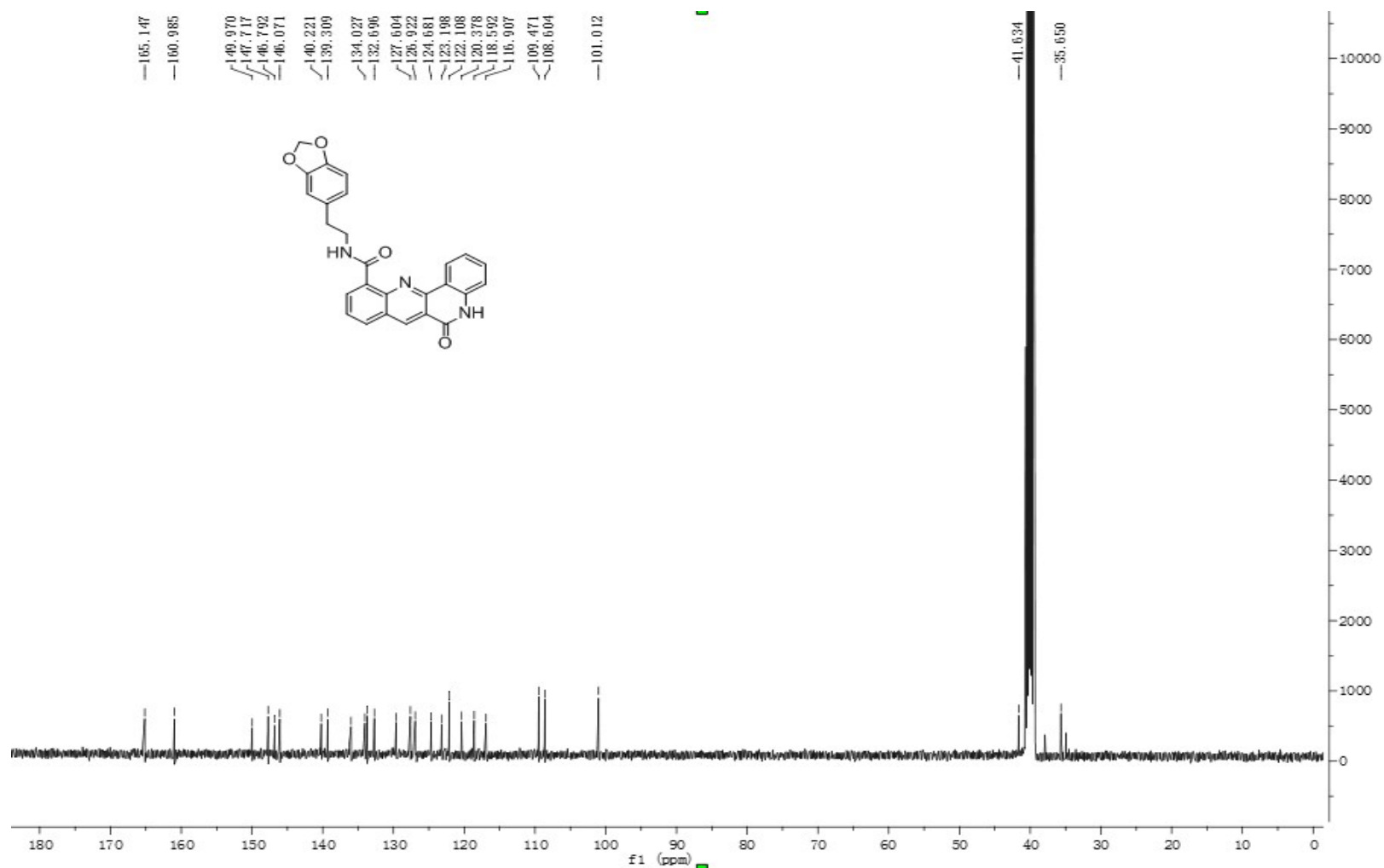
6-Oxo-N-phenethyl-5,6-dihydrodibenzo[b,h][1,6]naphthyridine-11-carboxamide (**31**)



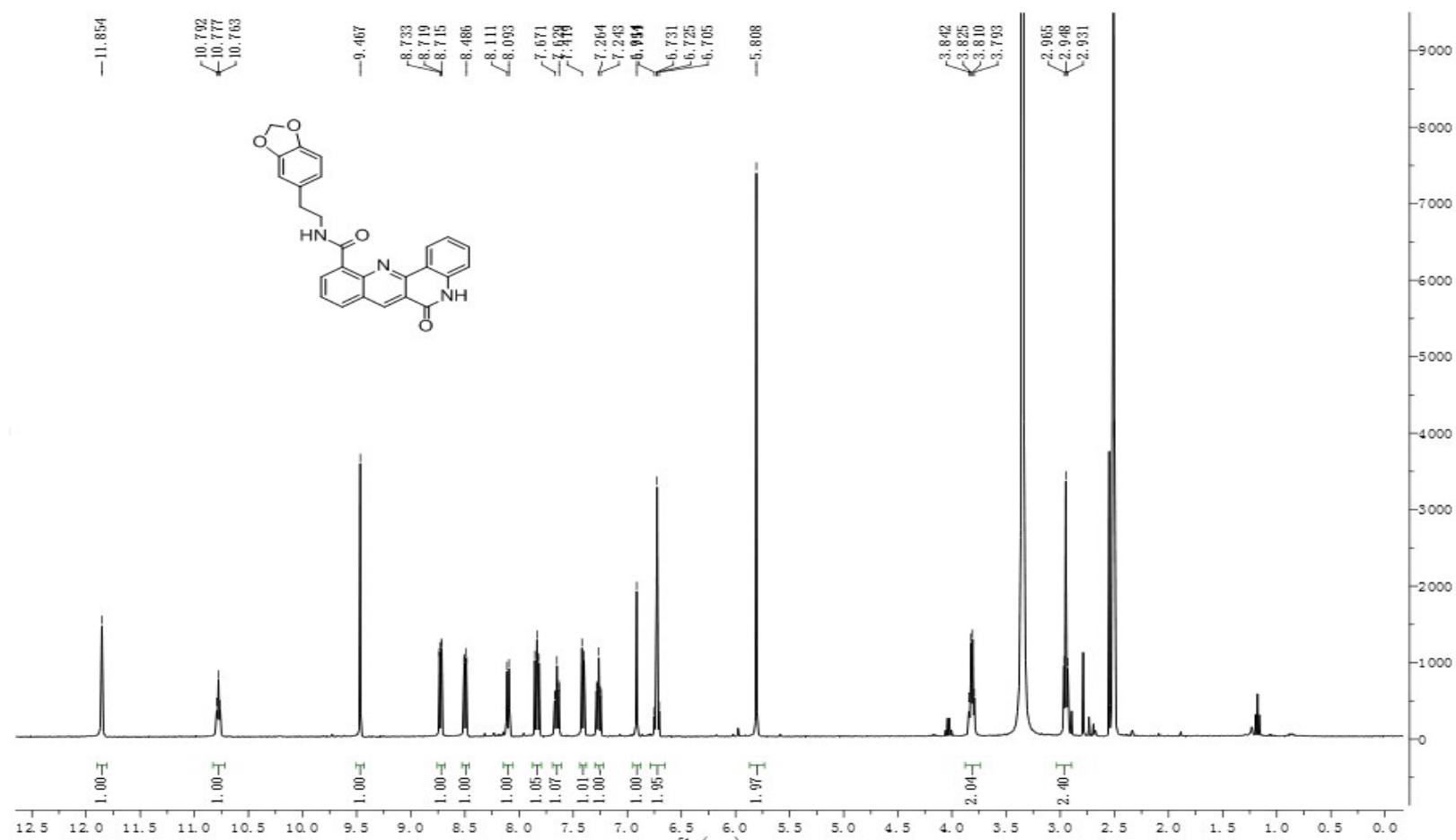
N-(4-Methylbenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3m**)



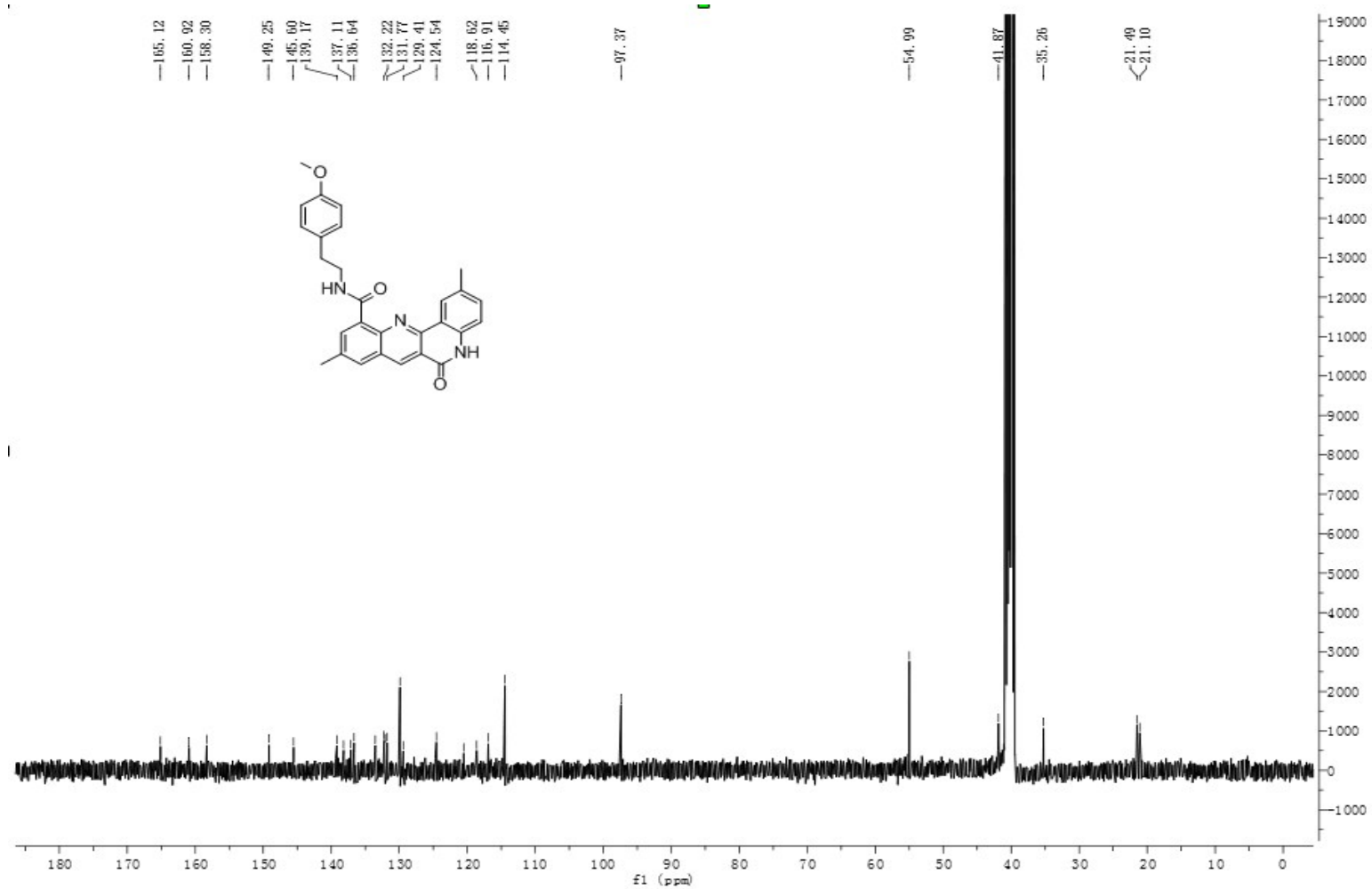
N-(4-Methylbenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3m**)



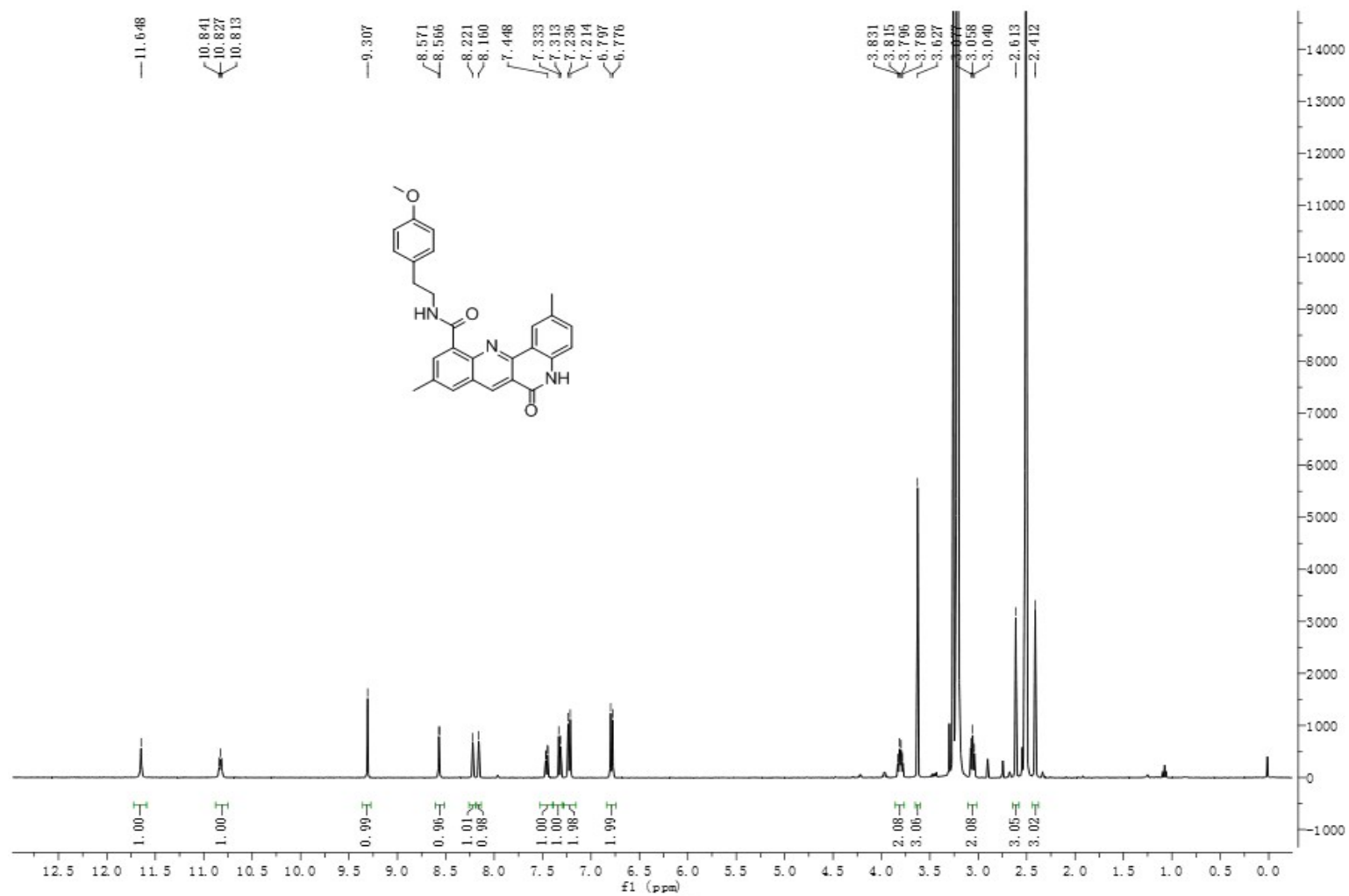
N-(Piperonyl)ethyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3n**)



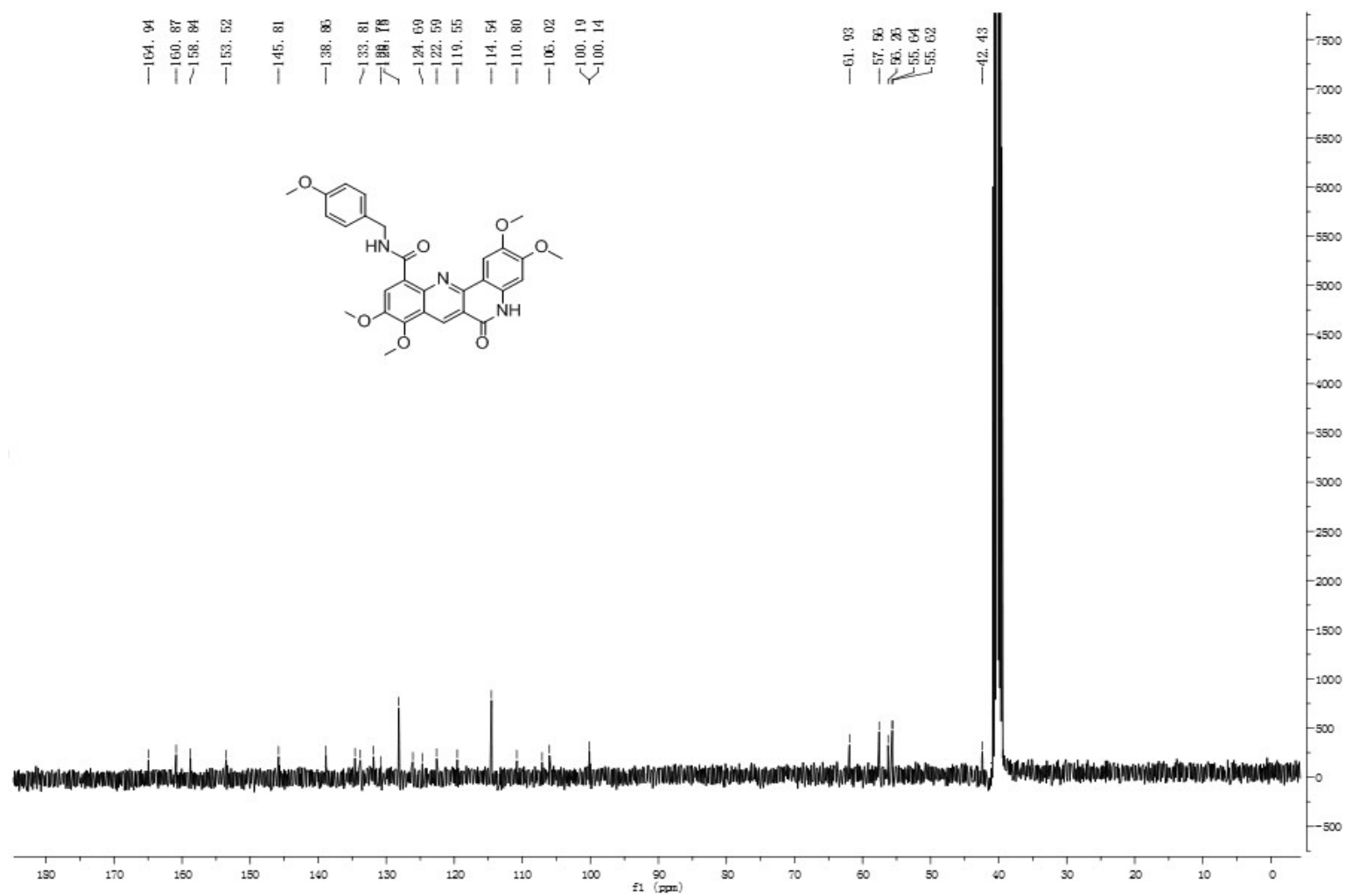
N-(Piperonyl)ethyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3n**)



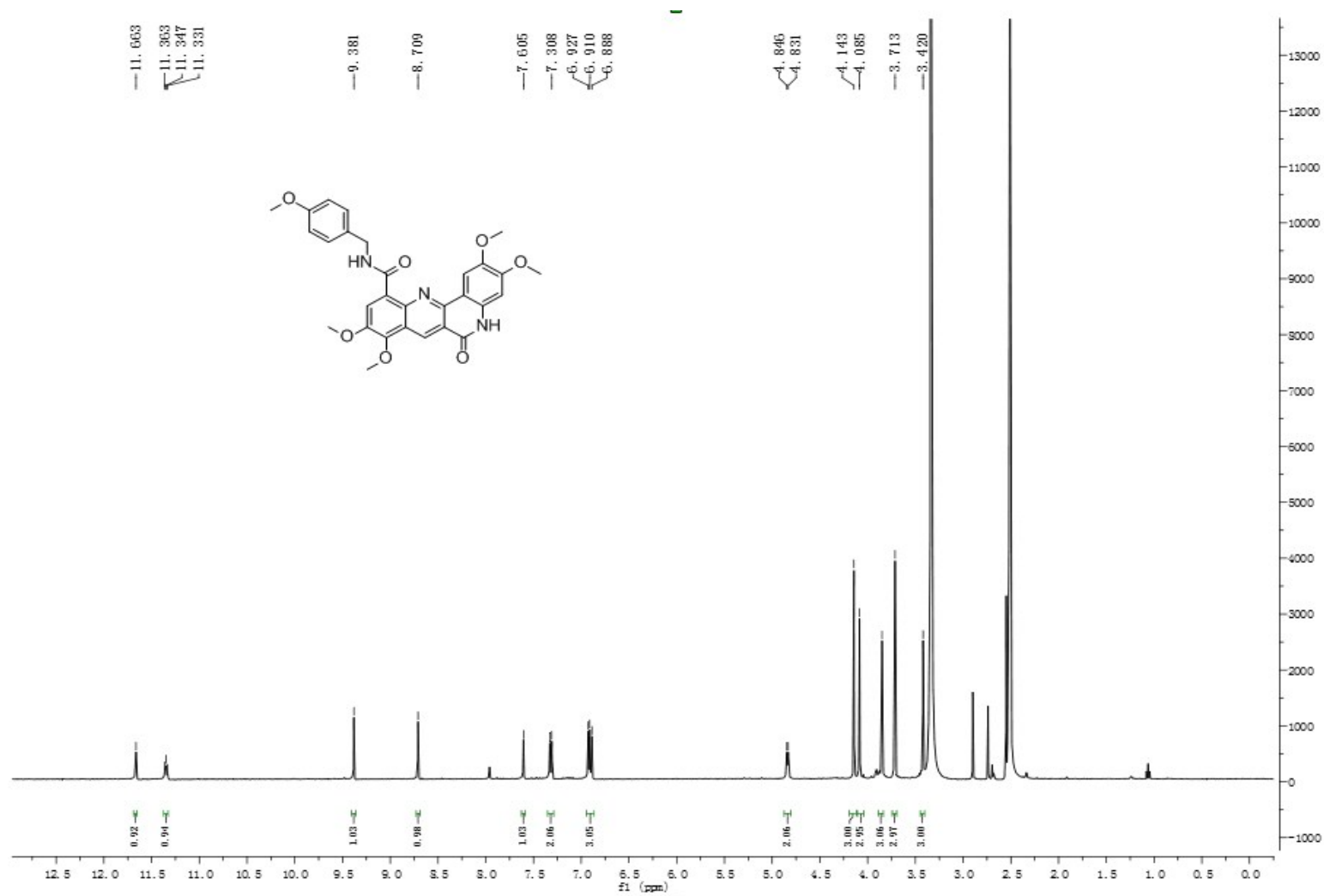
N-(4-Methoxyphenethyl)-2,9-dimethyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3o**)



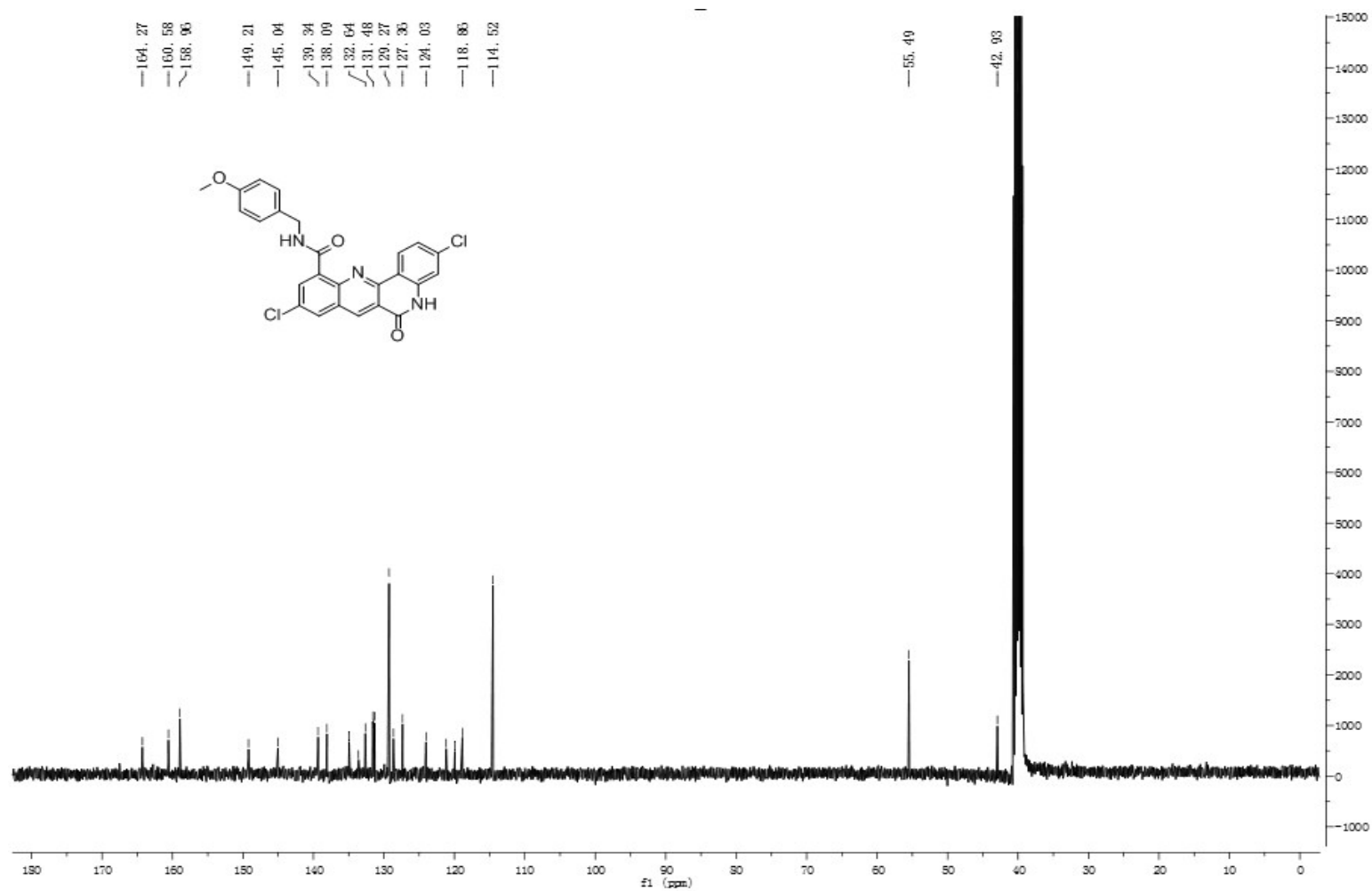
N-(4-Methoxyphenethyl)-2,9-dimethyl-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**30**)



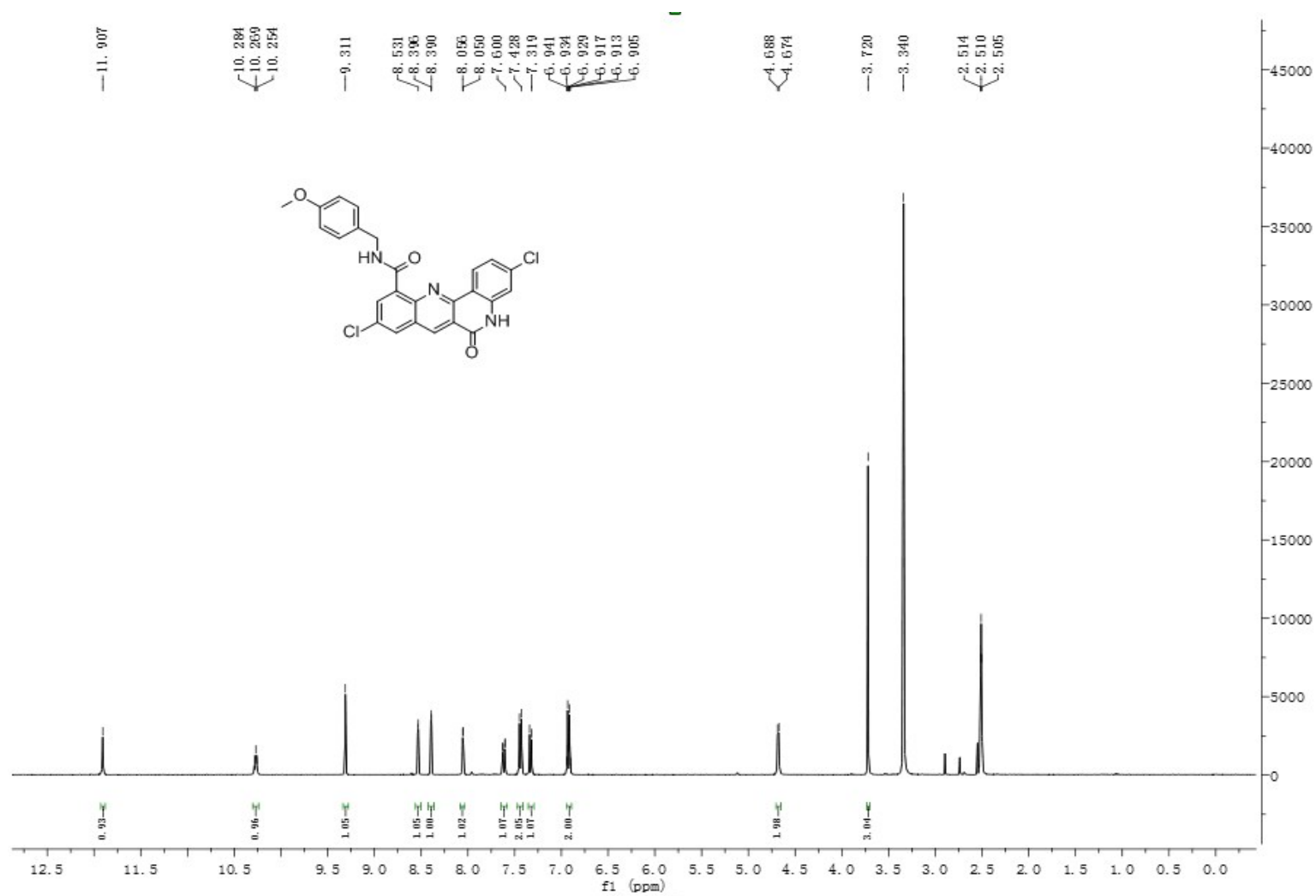
2,3,8,9-Tetramethoxy-*N*-(4-methoxybenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3p**)



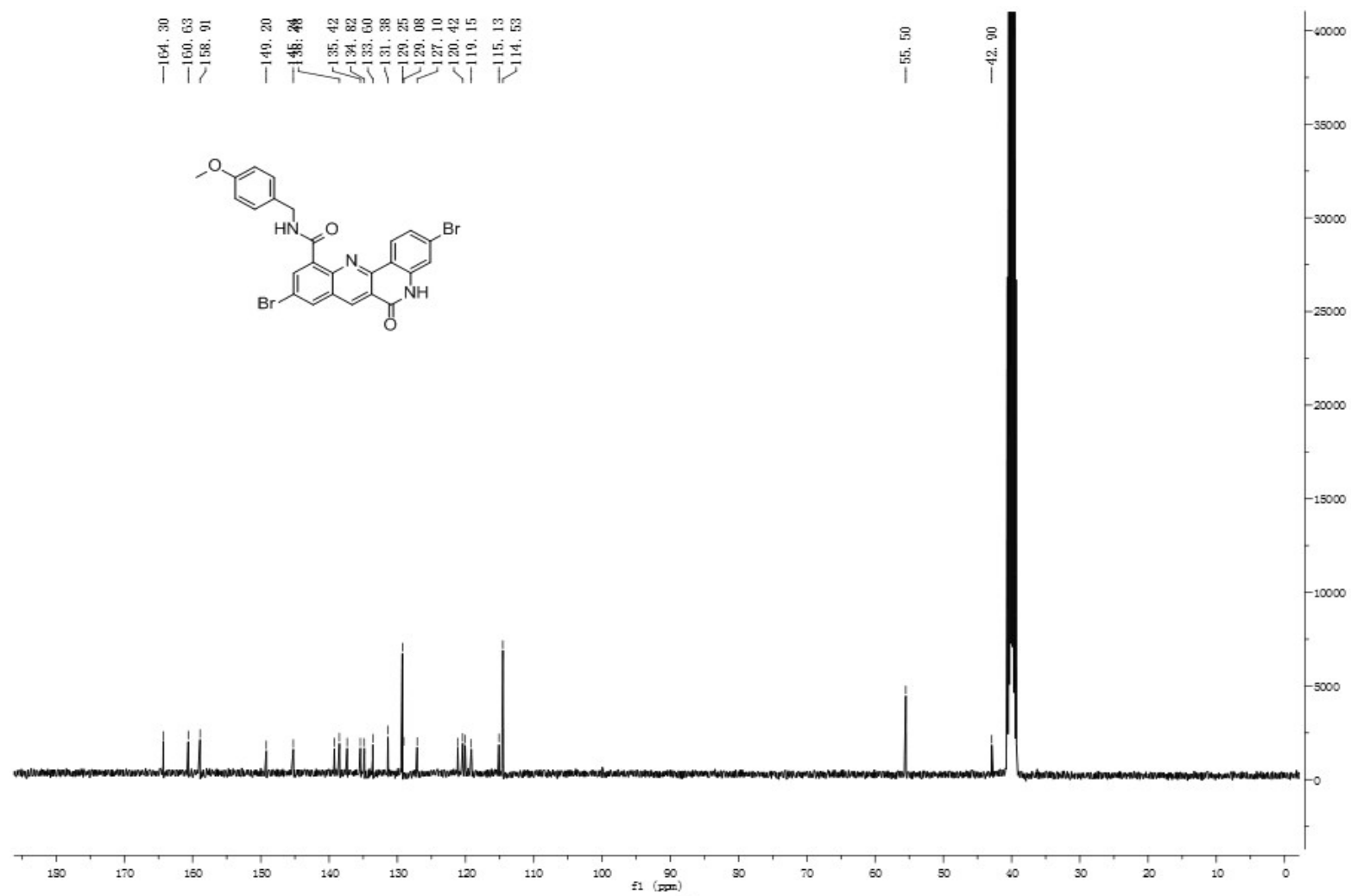
2,3,8,9-Tetramethoxy-*N*-(4-methoxybenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3p**)



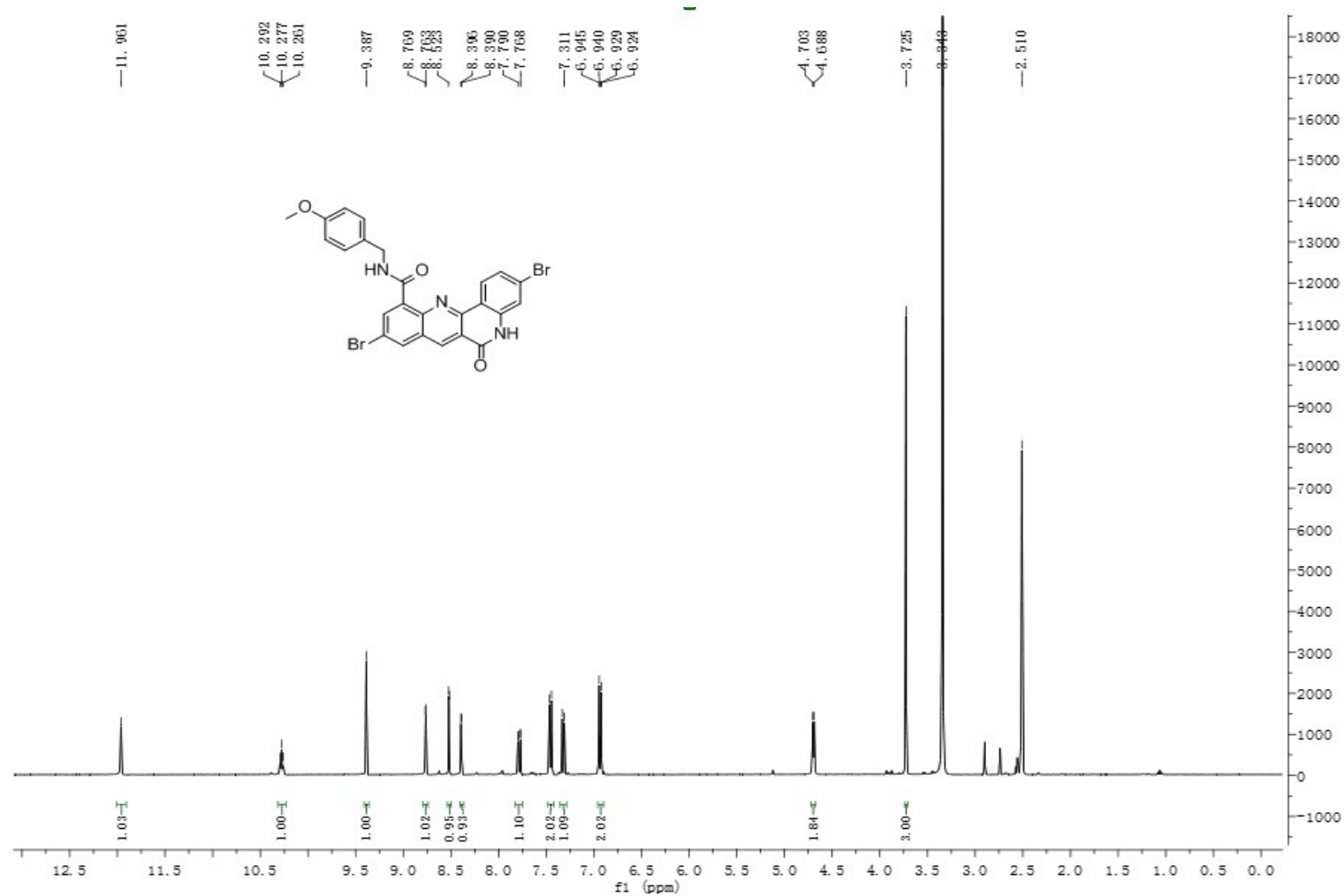
3,9-Dichloro-*N*-(4-methoxybenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3q**)



3,9-Dichloro-*N*-(4-methoxybenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3q**)



3,9-Dibromo-N-(4-methoxybenzyl)-6-oxo-5,6-dihydrodibenzo[b,h][1,6]naphthyridine-11-carboxamide (**3r**)



3,9-Dibromo-*N*-(4-methoxybenzyl)-6-oxo-5,6-dihydrodibenzo[*b,h*][1,6]naphthyridine-11-carboxamide (**3r**)