

Synthesis and Antitumor Activity of Heterocyclic Aurone and its Analogue Indanone Derivatives

Heng Wu ^{a,b}, Ayitila Maimaitijiang ^{a,b}, Dan Tang ^a, Baoxing Xie ^{a,b}, Chao Niu ^{a,*}, Haji Akber Aisa ^{a,b,*}

^a State Key Laboratory Basis of Xinjiang Indigenous Medicinal Plants Resource Utilization,

CAS Key Laboratory of Chemistry of Plant Resources in Arid Regions, Xinjiang Technical Institute of Physics and Chemistry,

Chinese Academy of Sciences, Urumqi, 830011 China

^b University of Chinese Academy of Sciences, Beijing, 100049 China

*e-mail: haji@ms.xjb.ac.cn

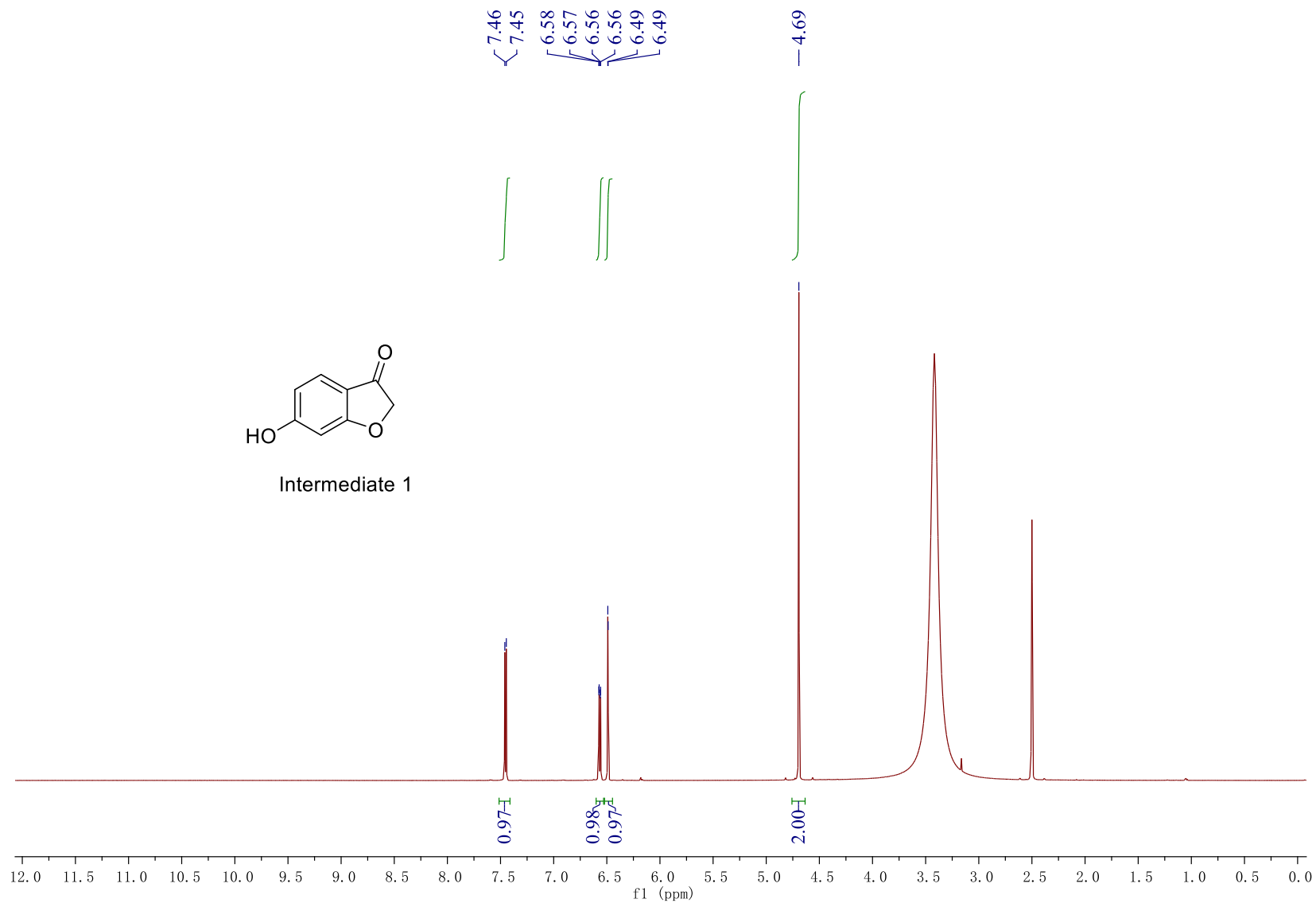
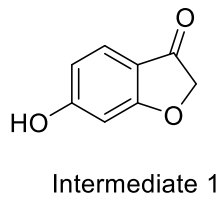
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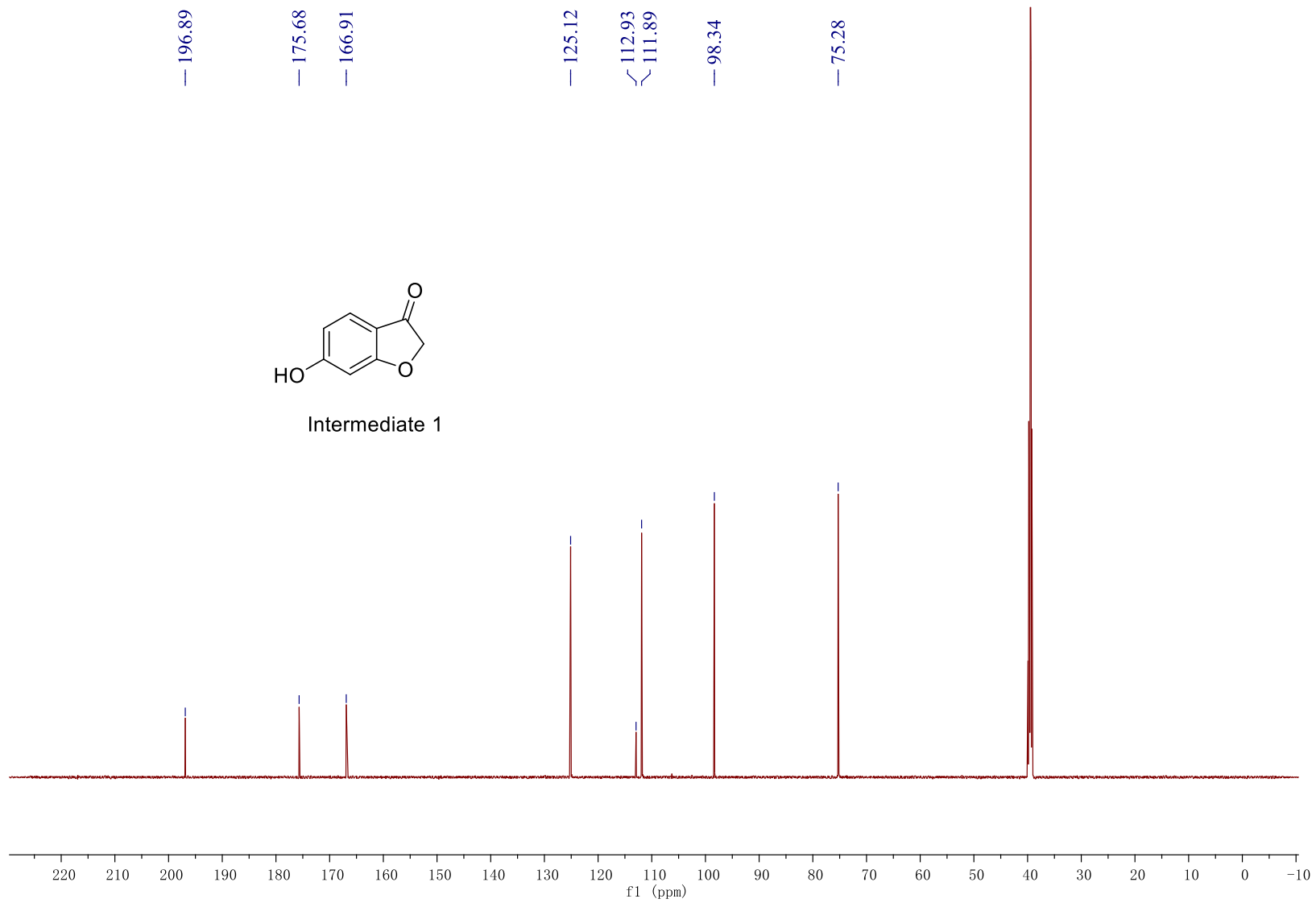
Chinese Academy of Sciences, Urumqi, 830011 China

^b University of Chinese Academy of Sciences, Beijing, 100049 China

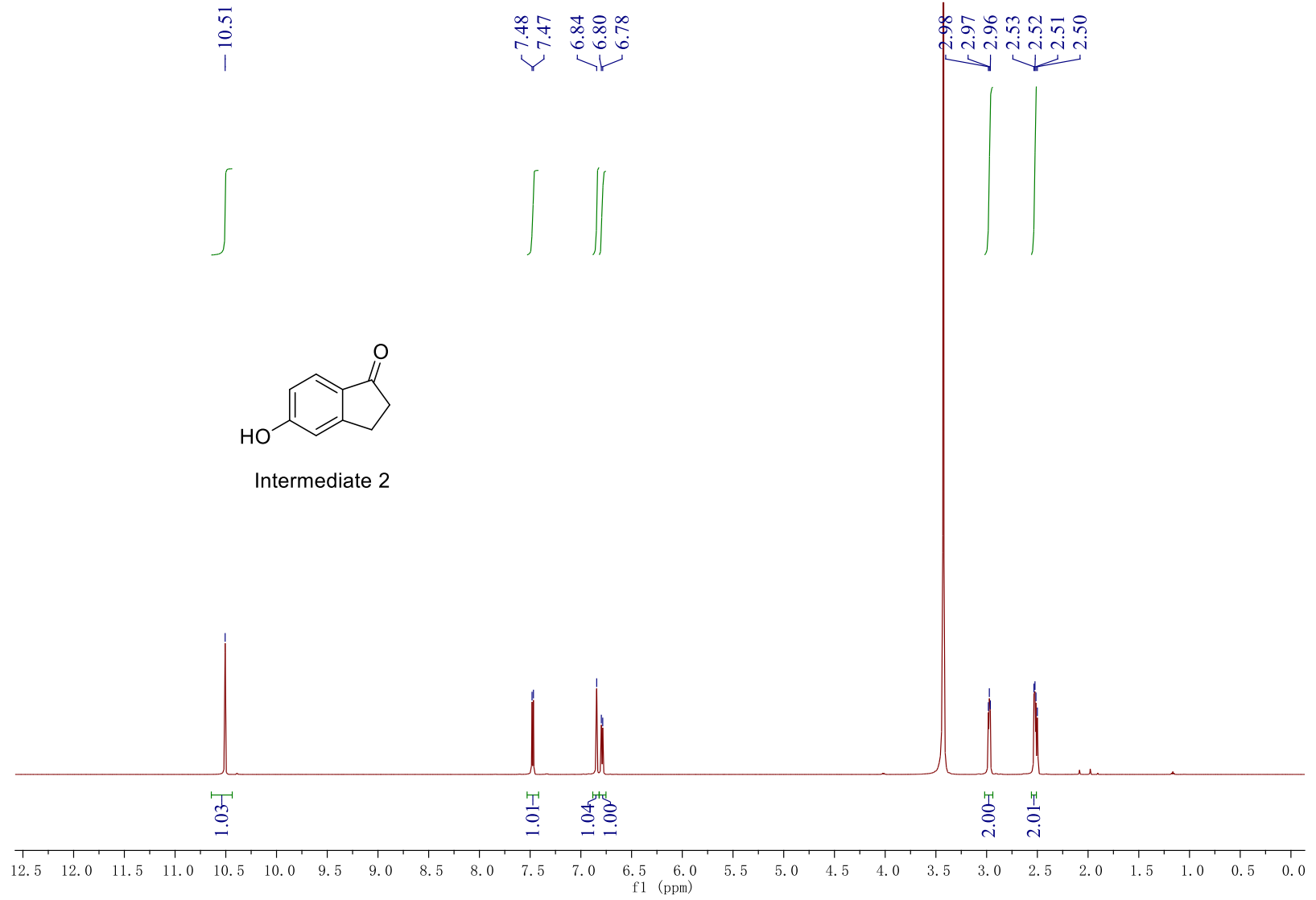
* Correspondence e-mail: haji@ms.xjb.ac.cn



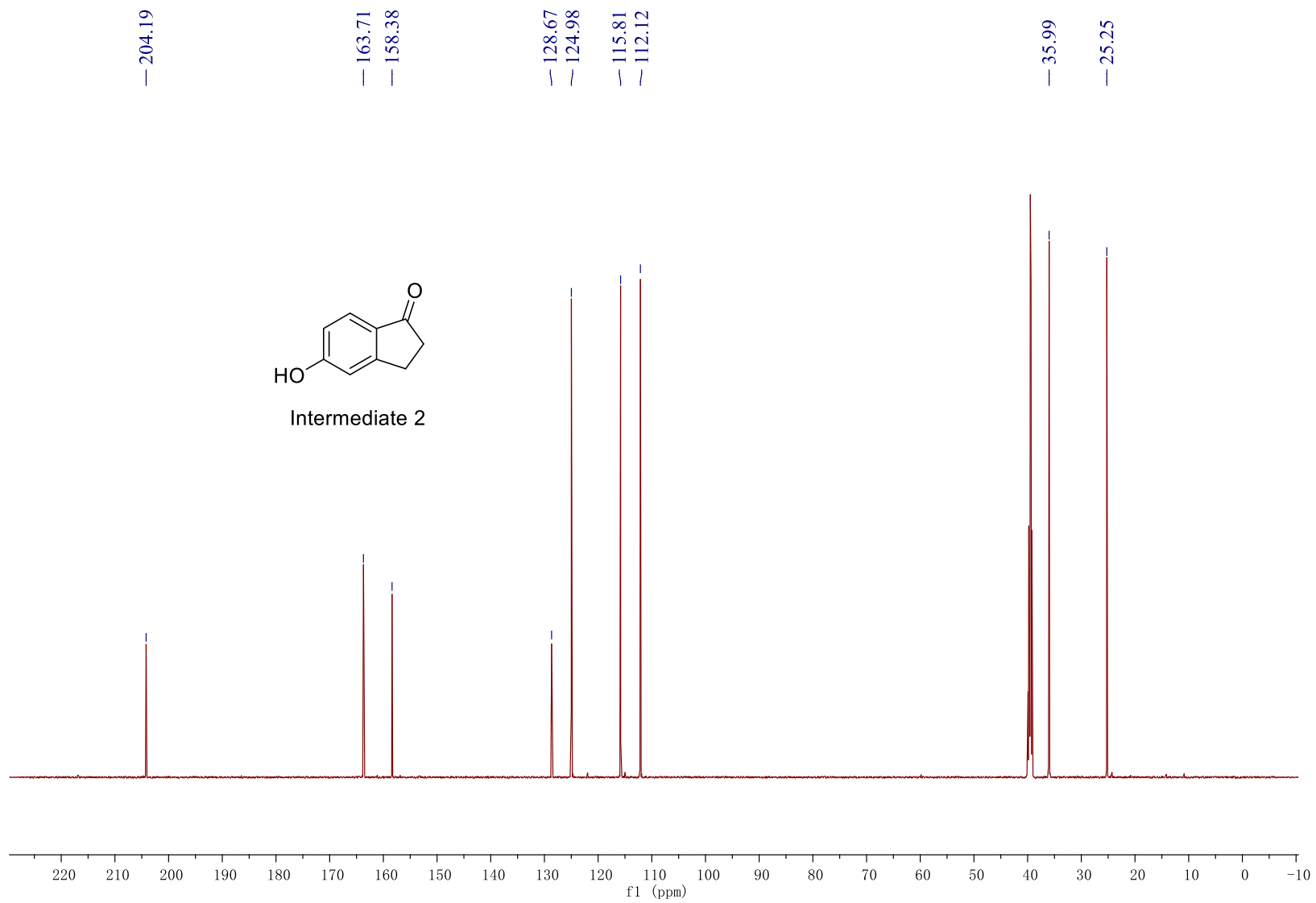
¹H NMR of intermediate 1



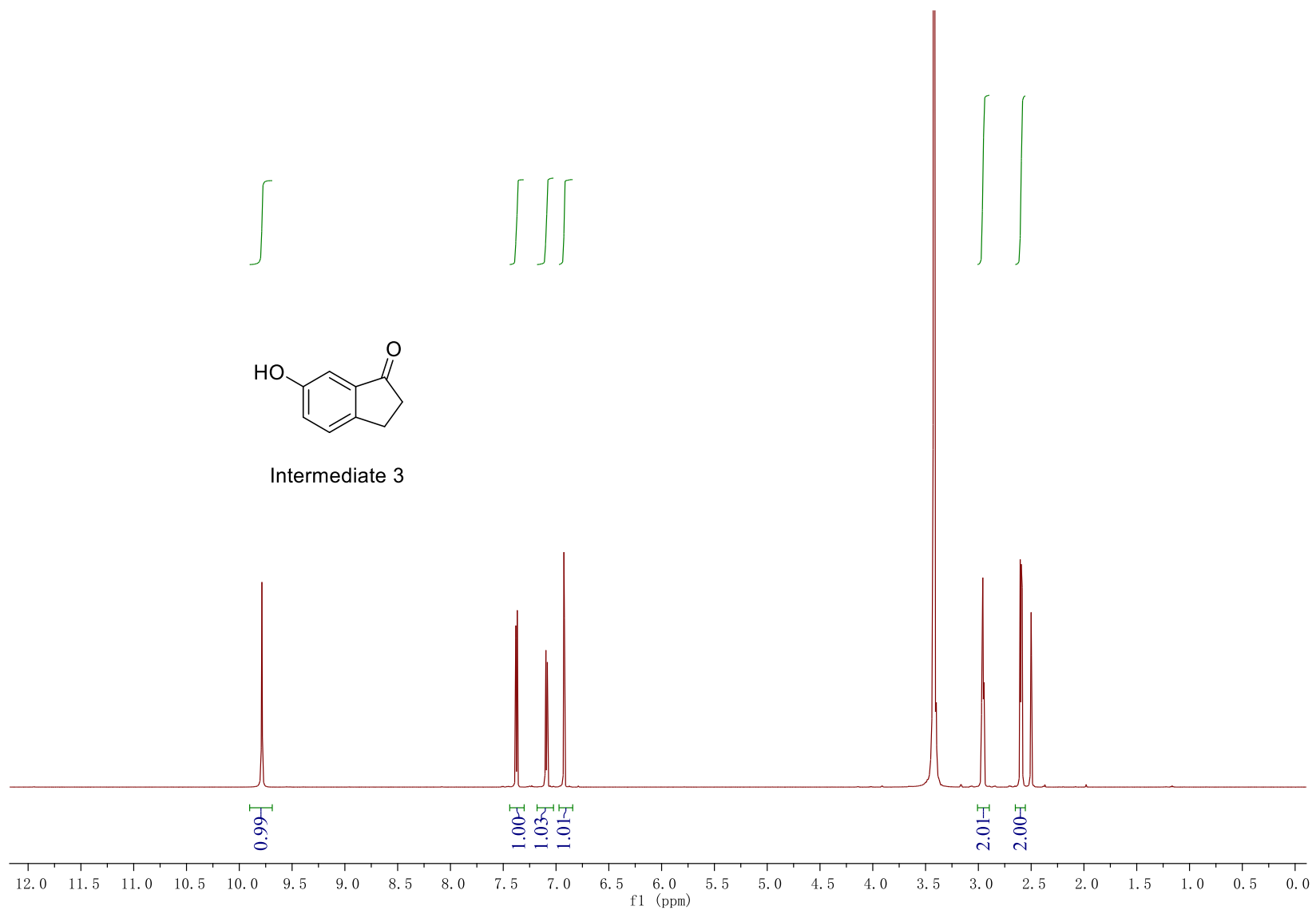
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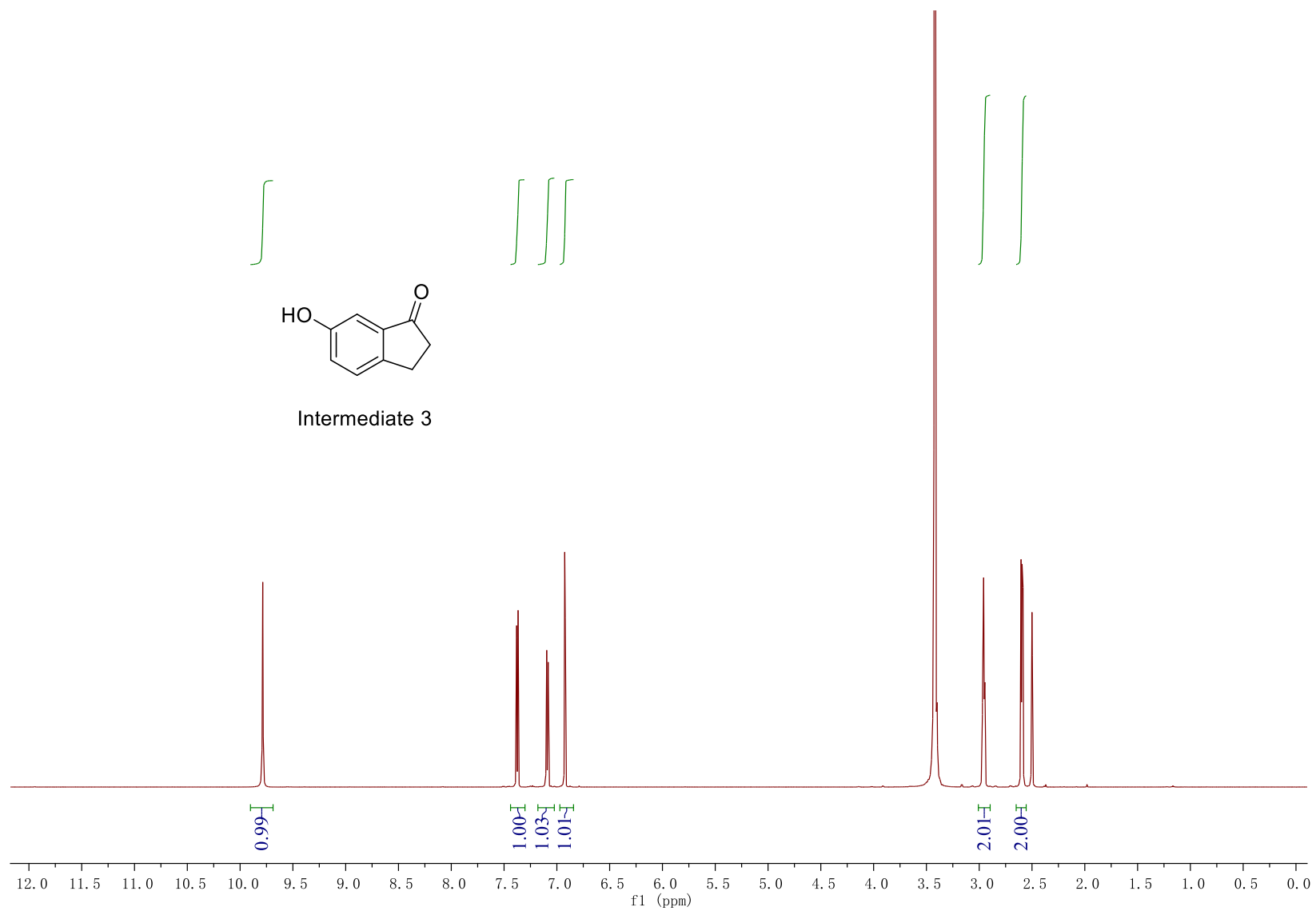
¹H NMR of intermediate 2



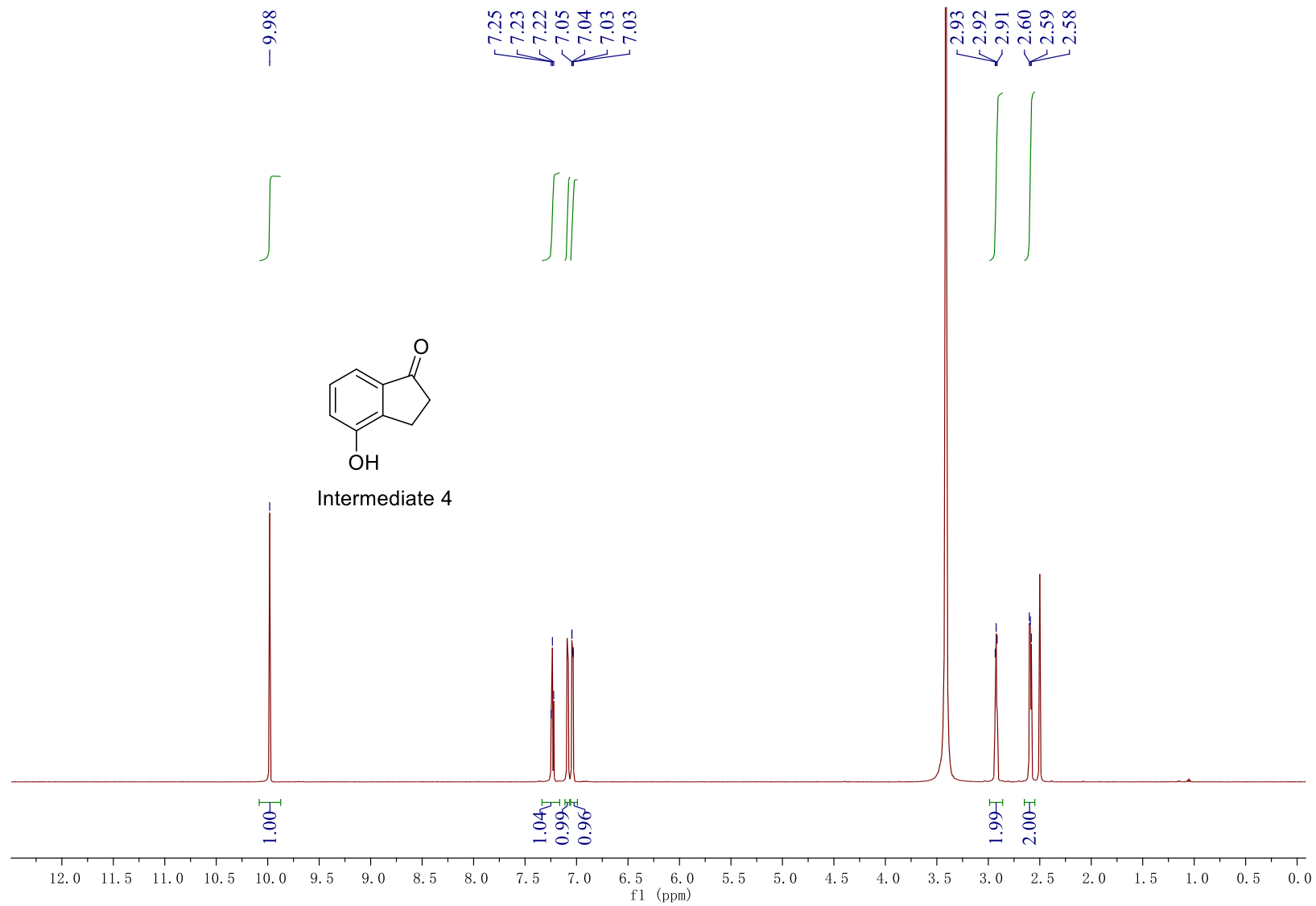
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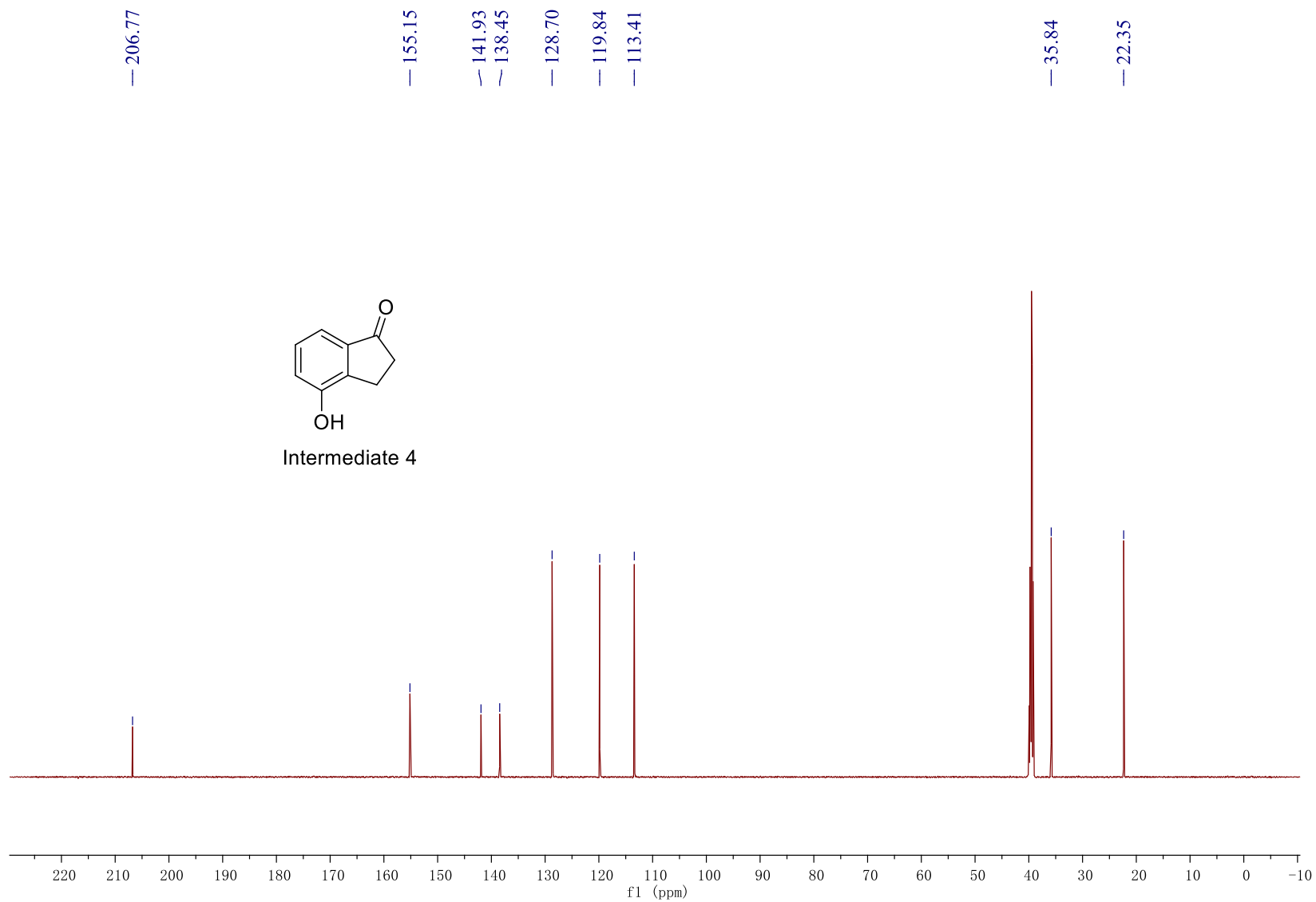
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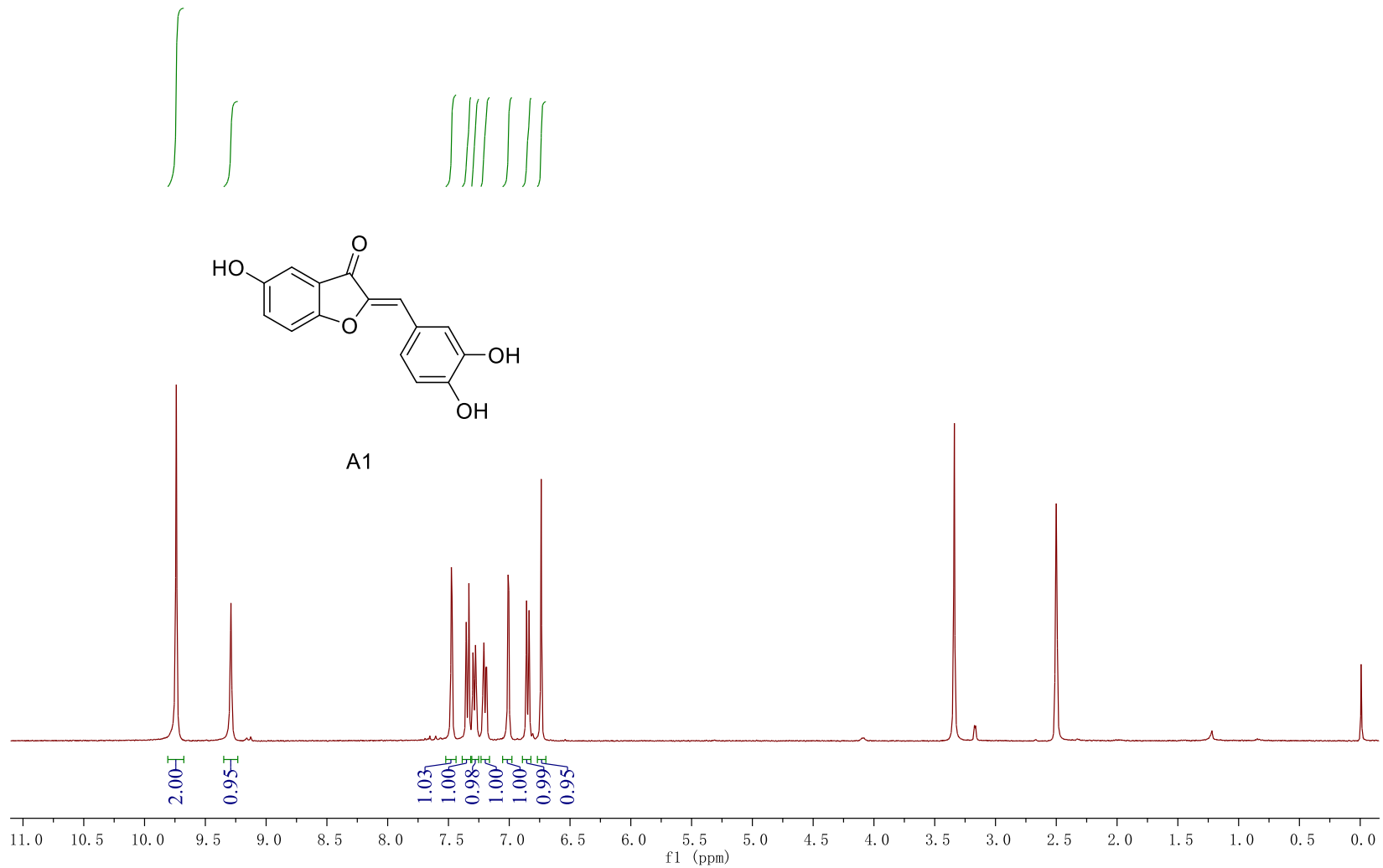
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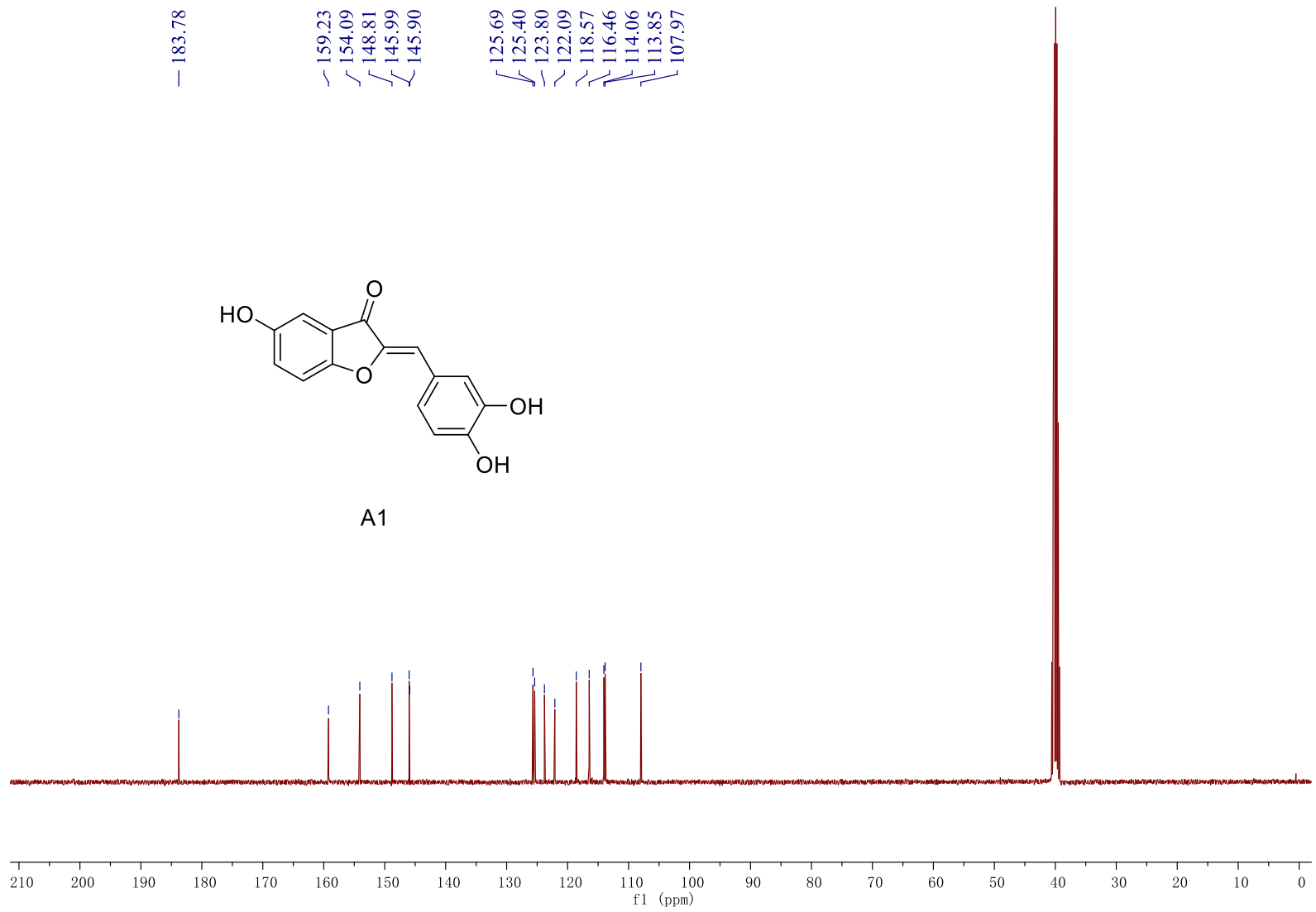
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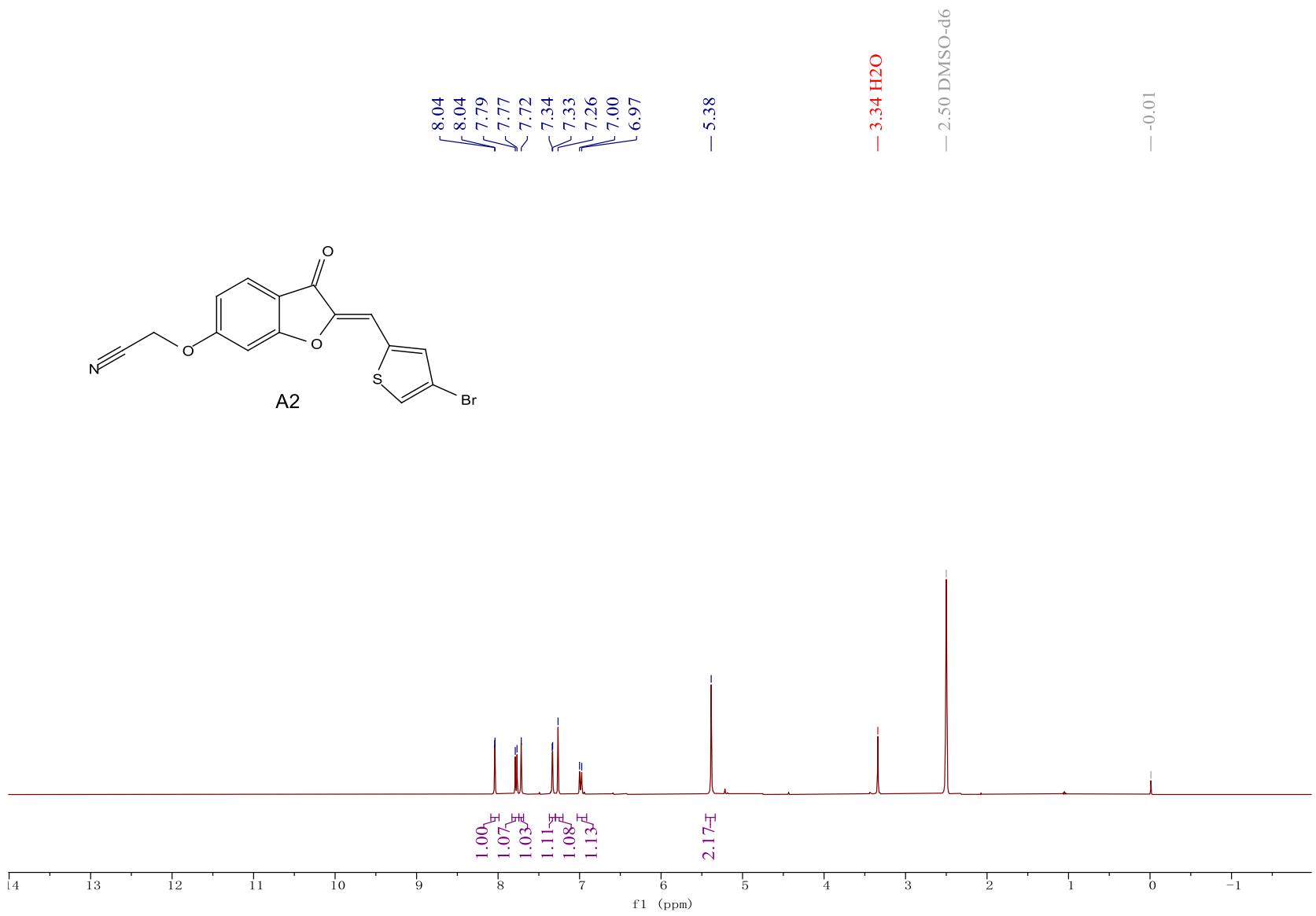
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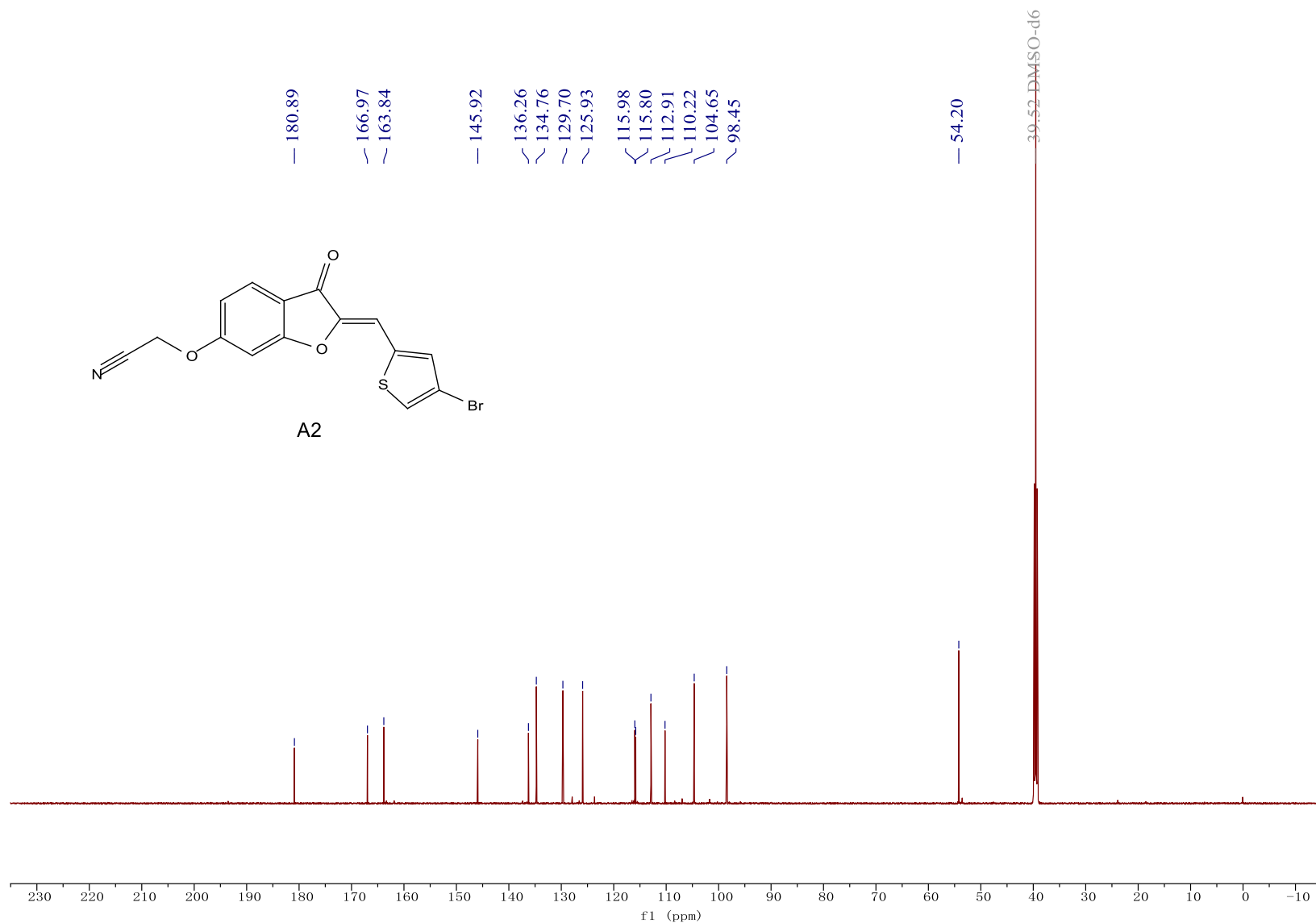
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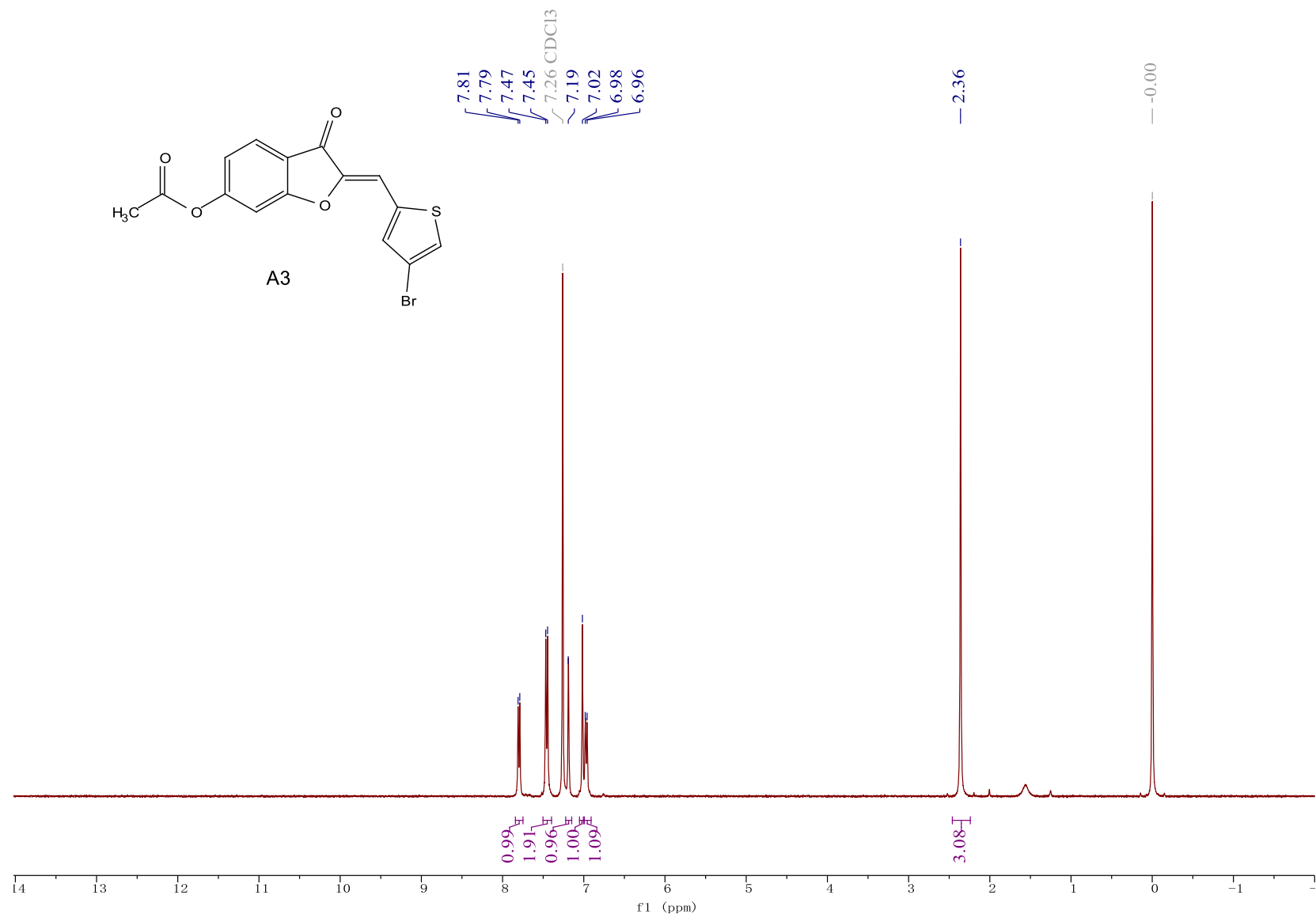
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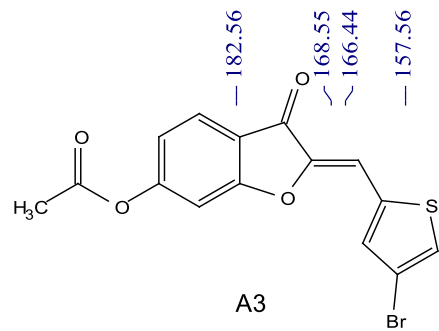
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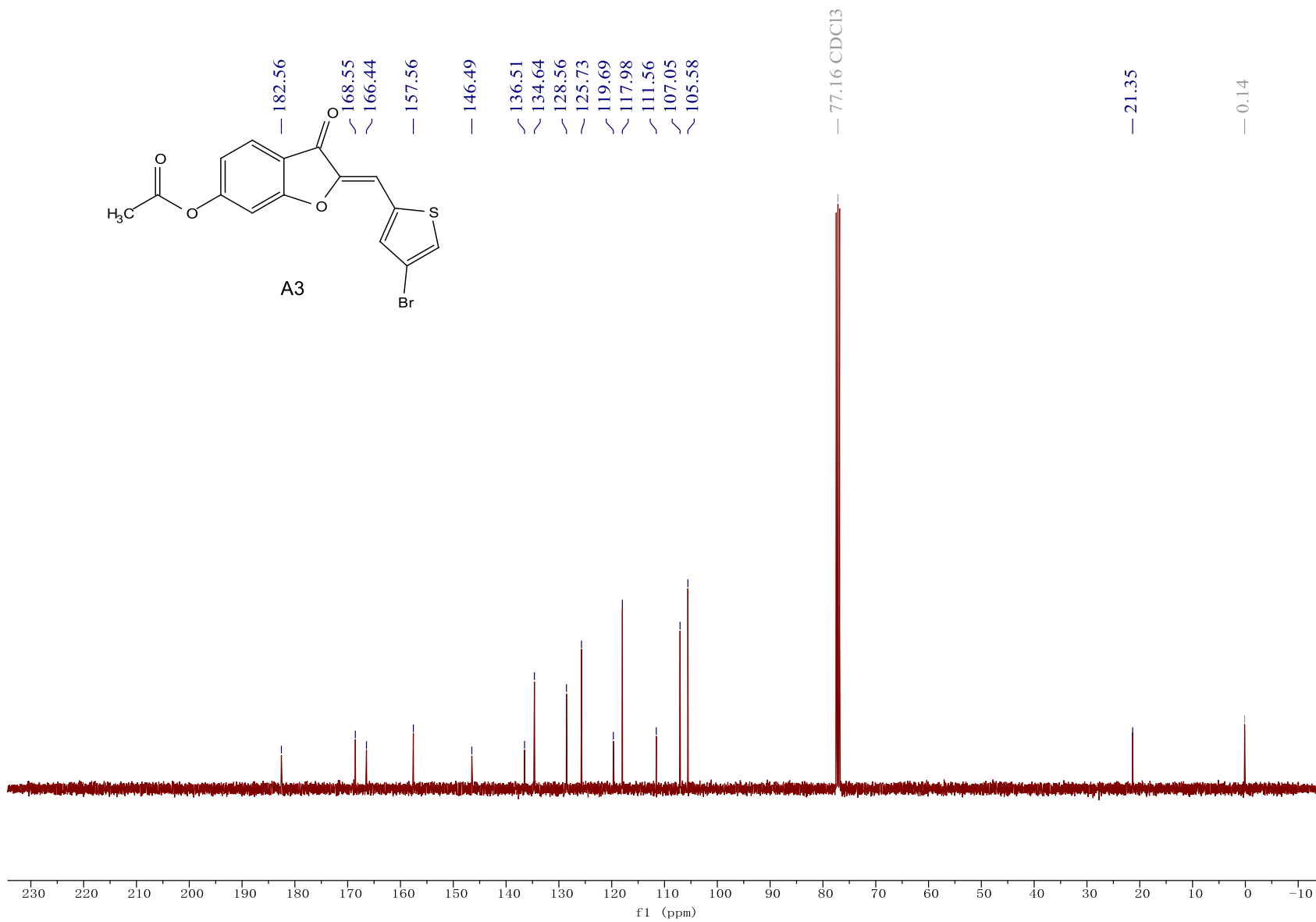
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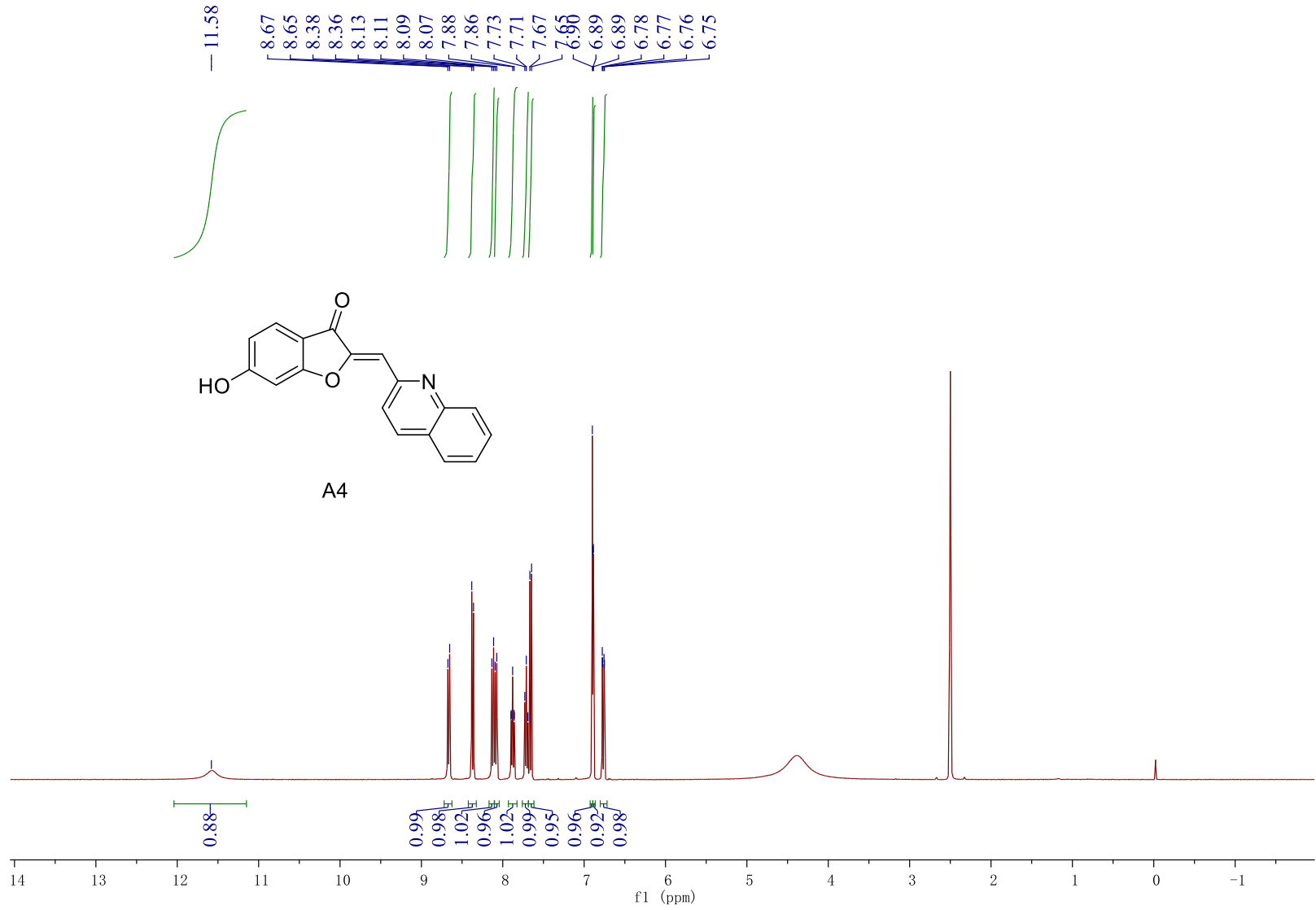
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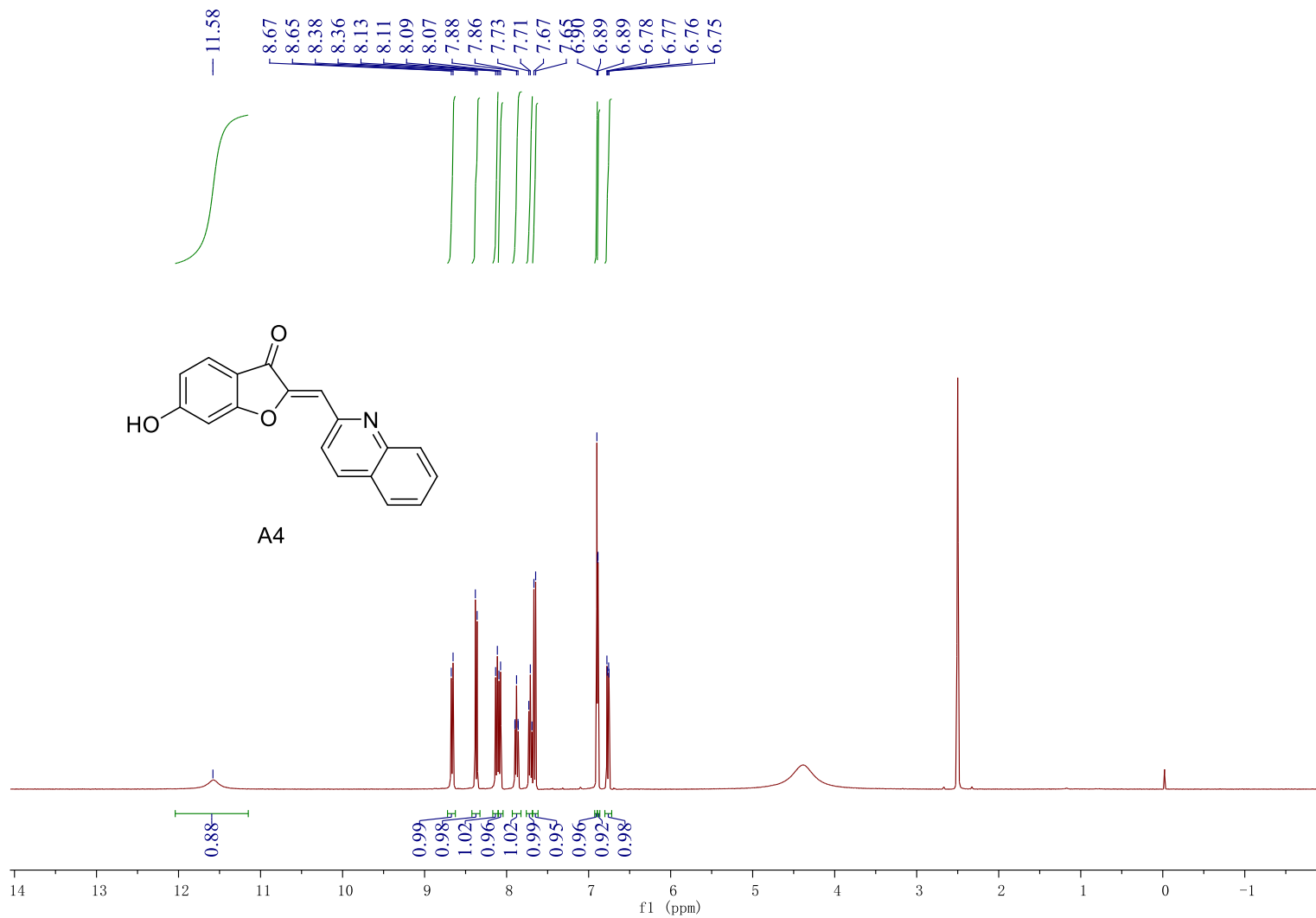
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- 168.55
- 166.44
- 157.56
- 146.49
- 136.51
- 134.64
- 128.56
- 125.73
- 119.69
- 117.98
- 111.56
- 107.05
- 105.58



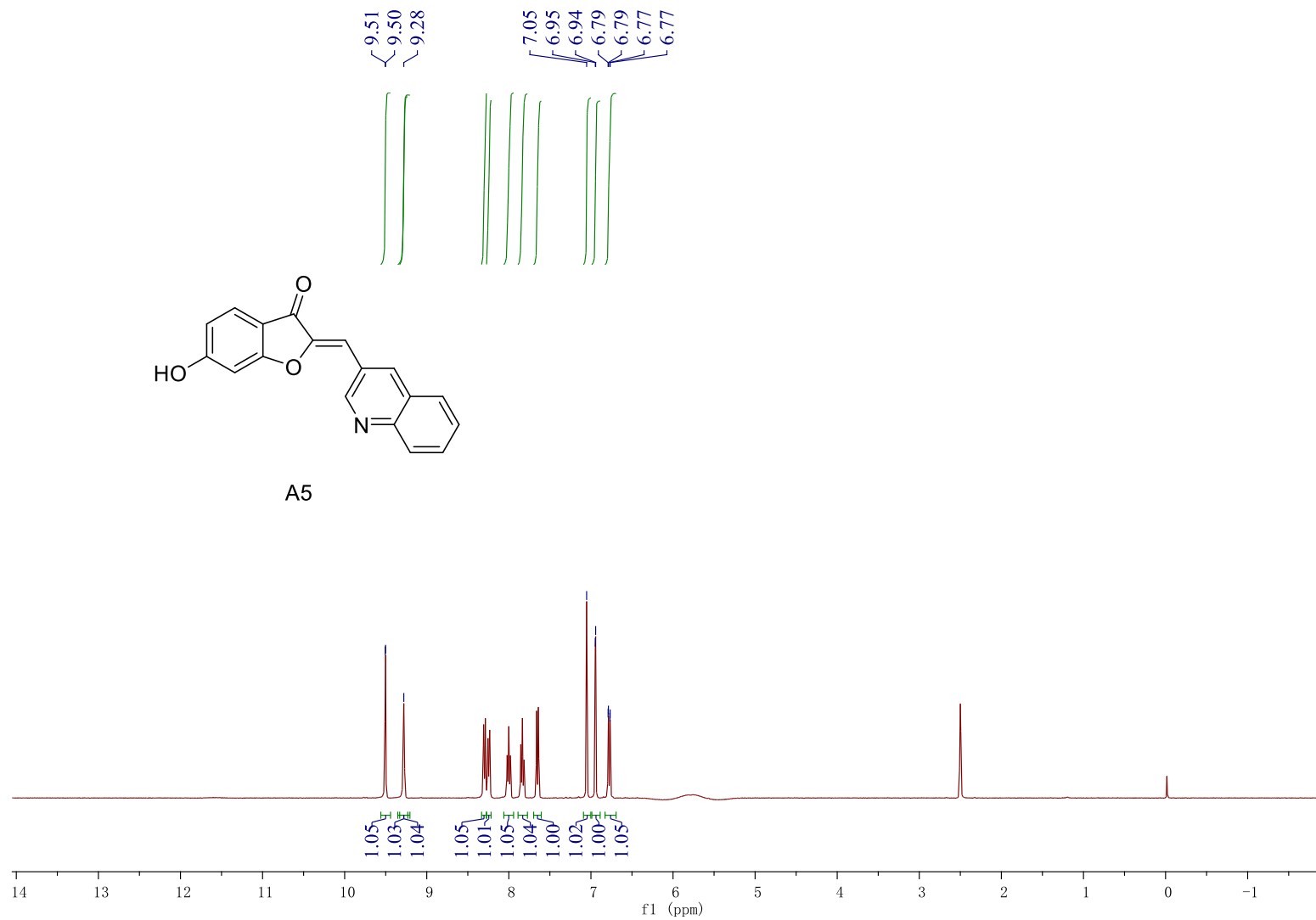
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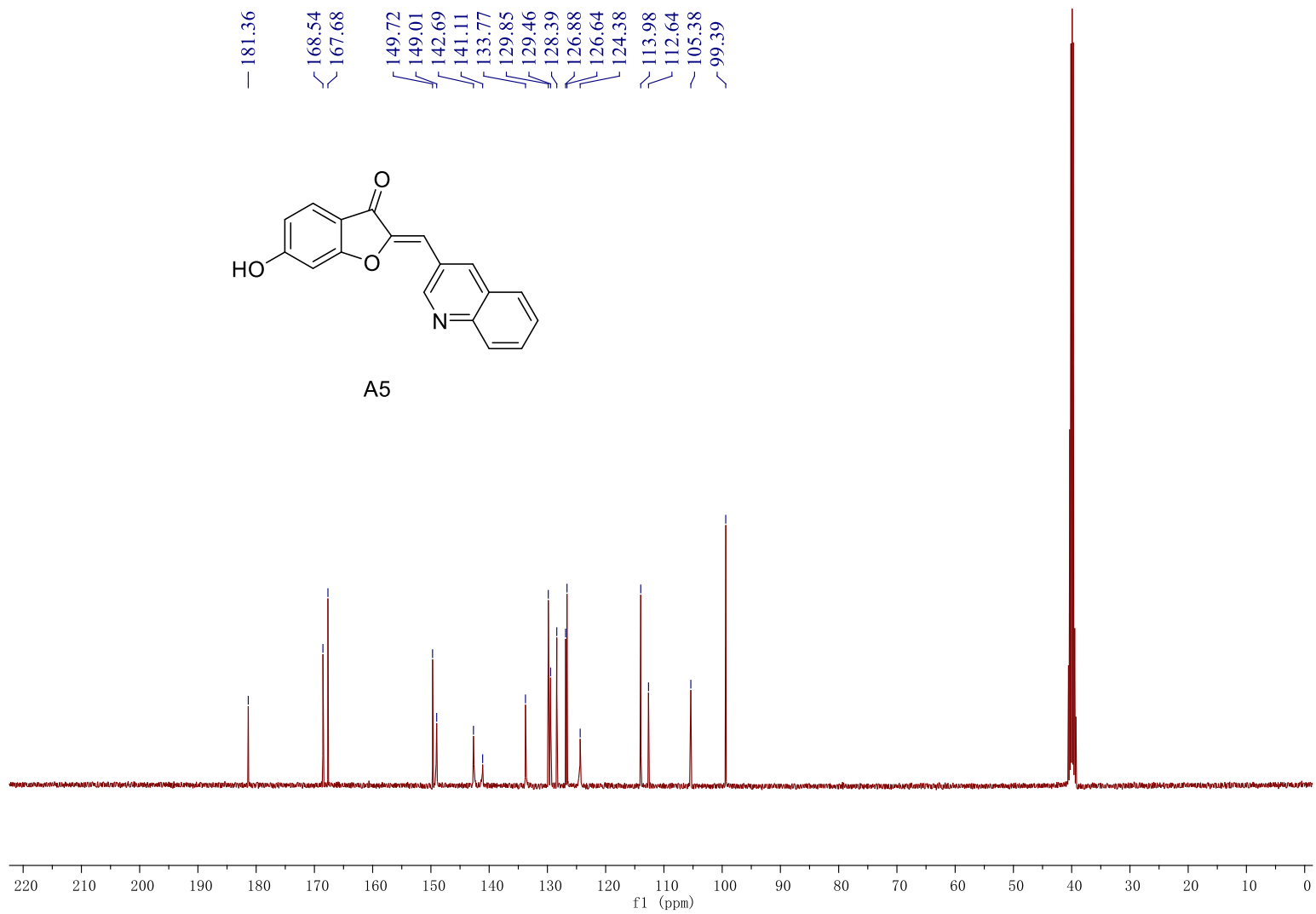
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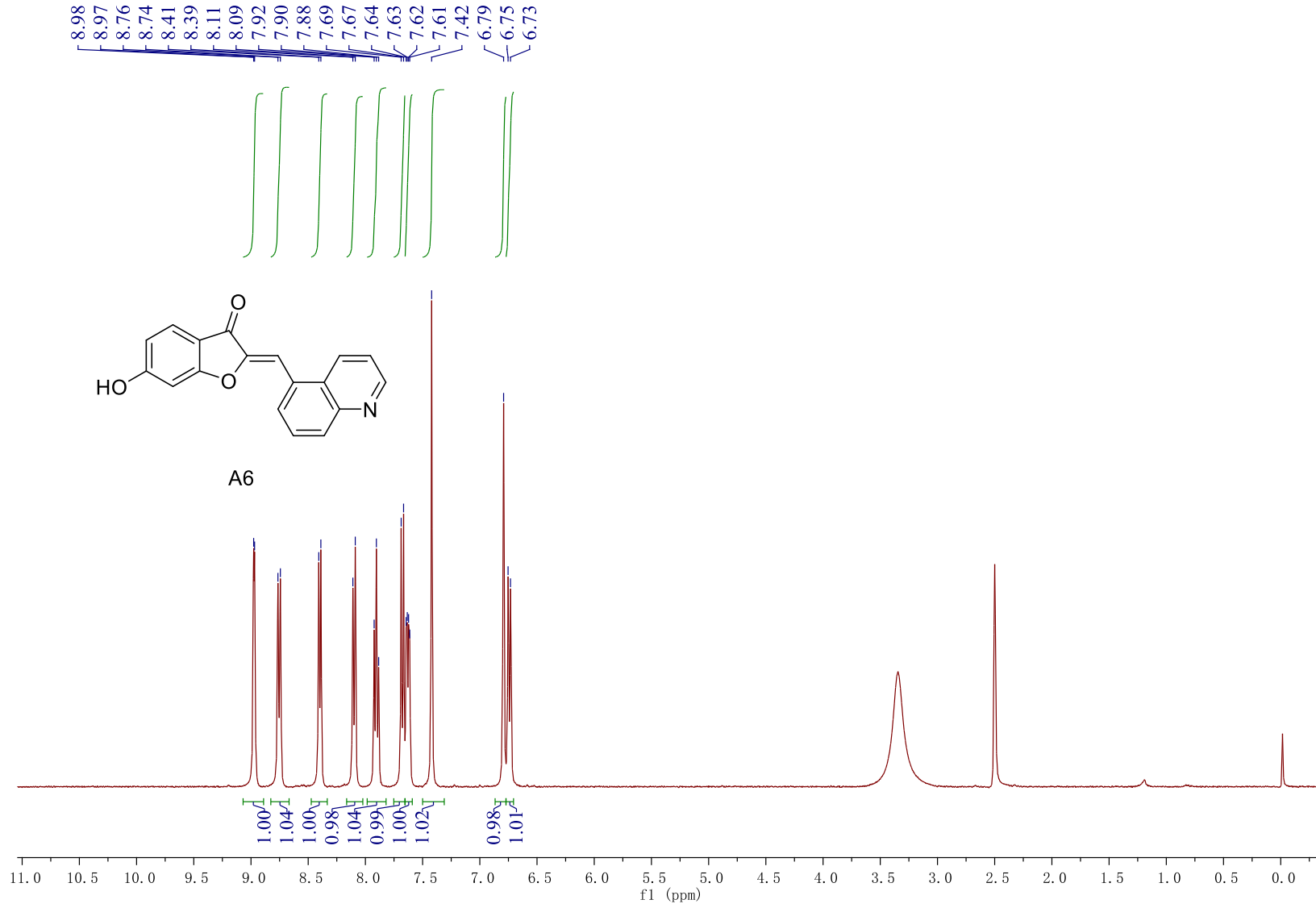
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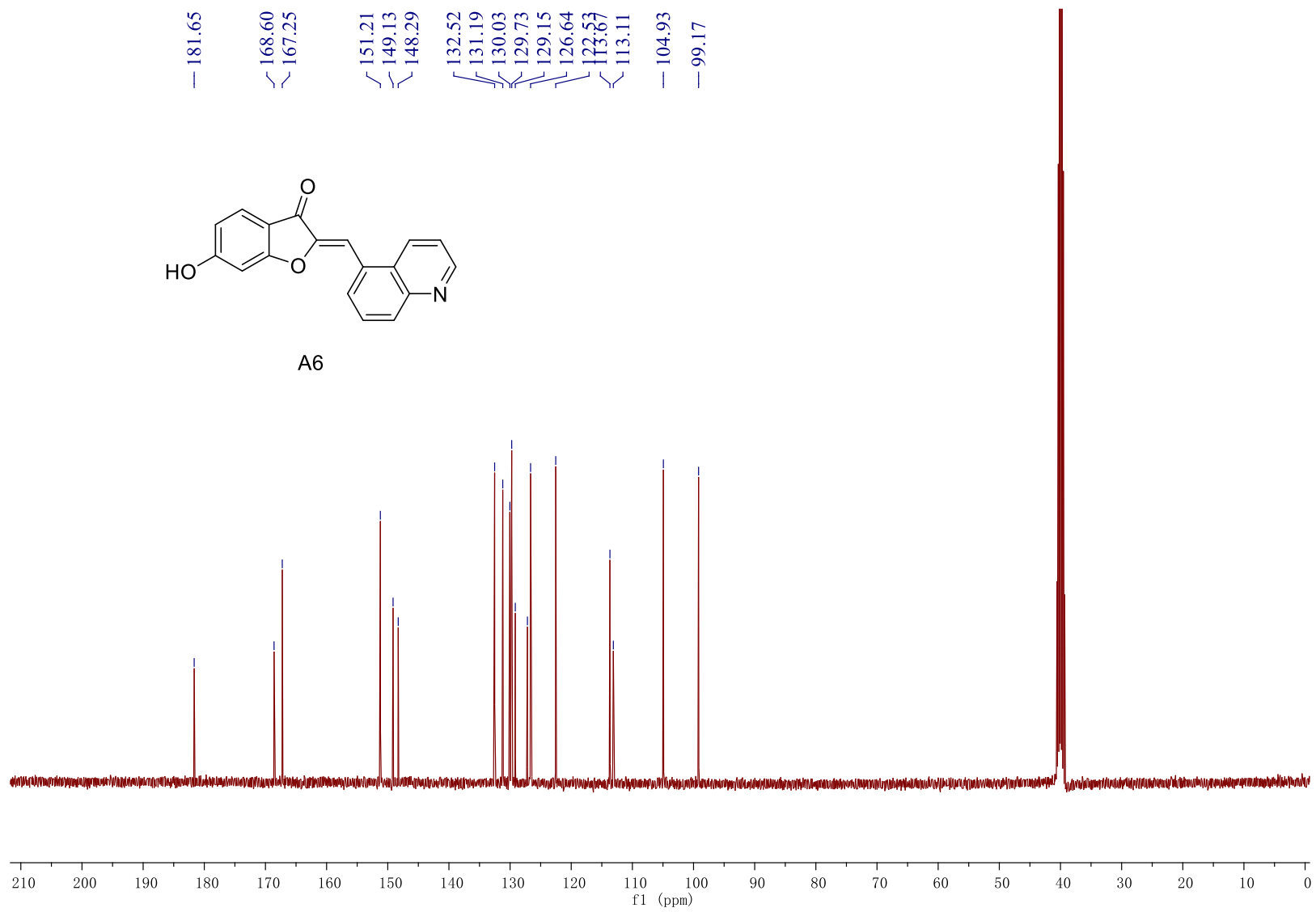
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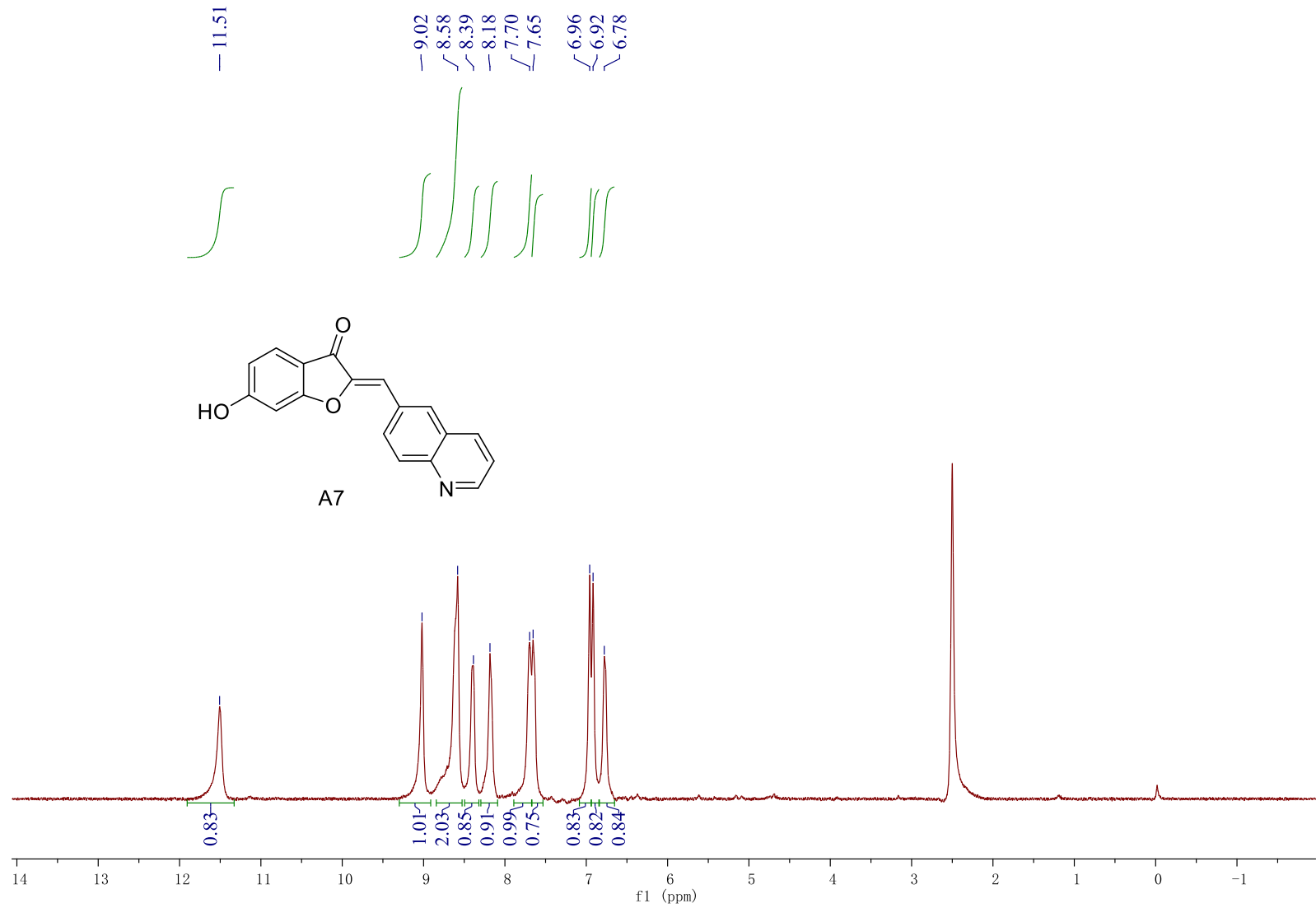
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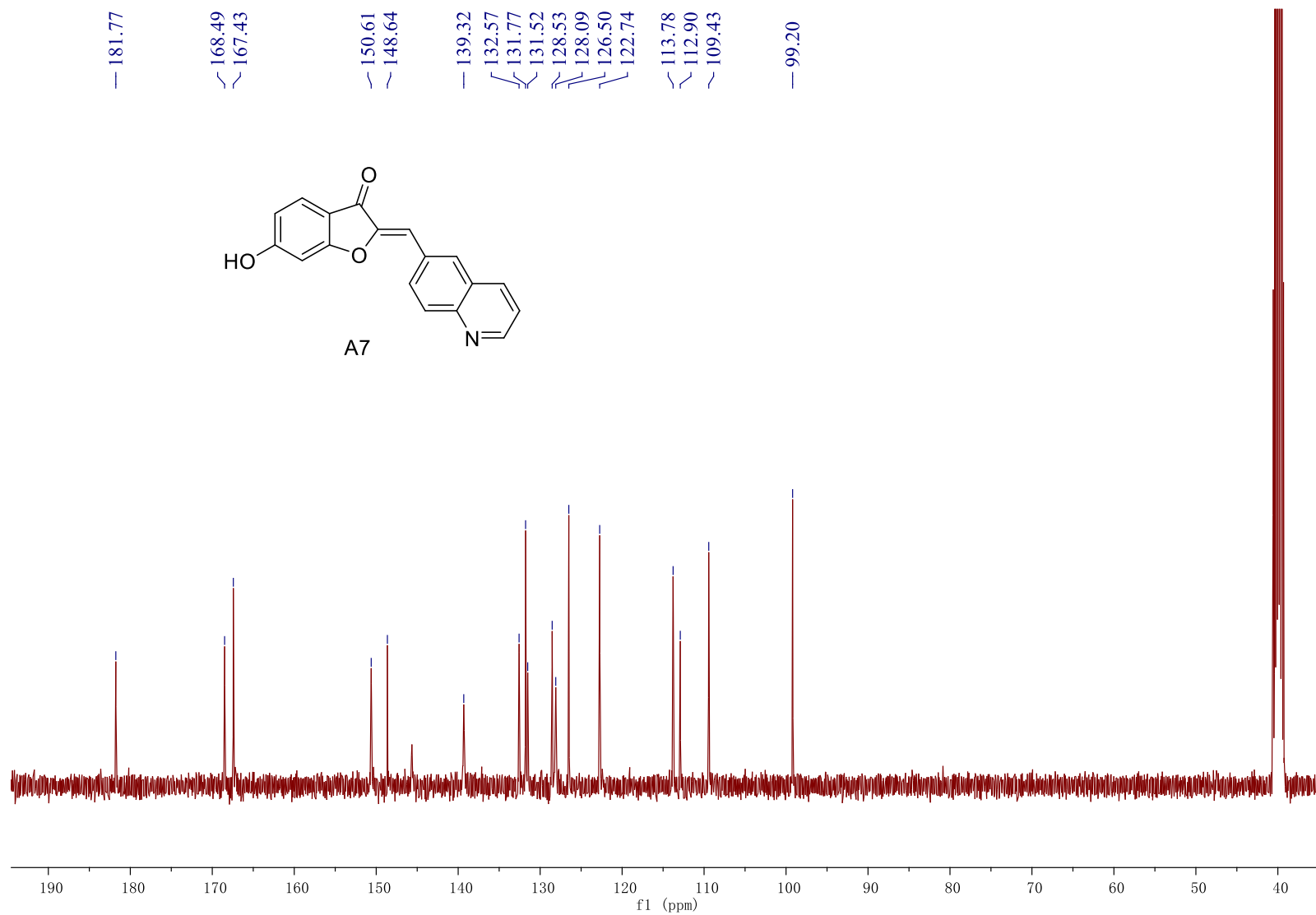
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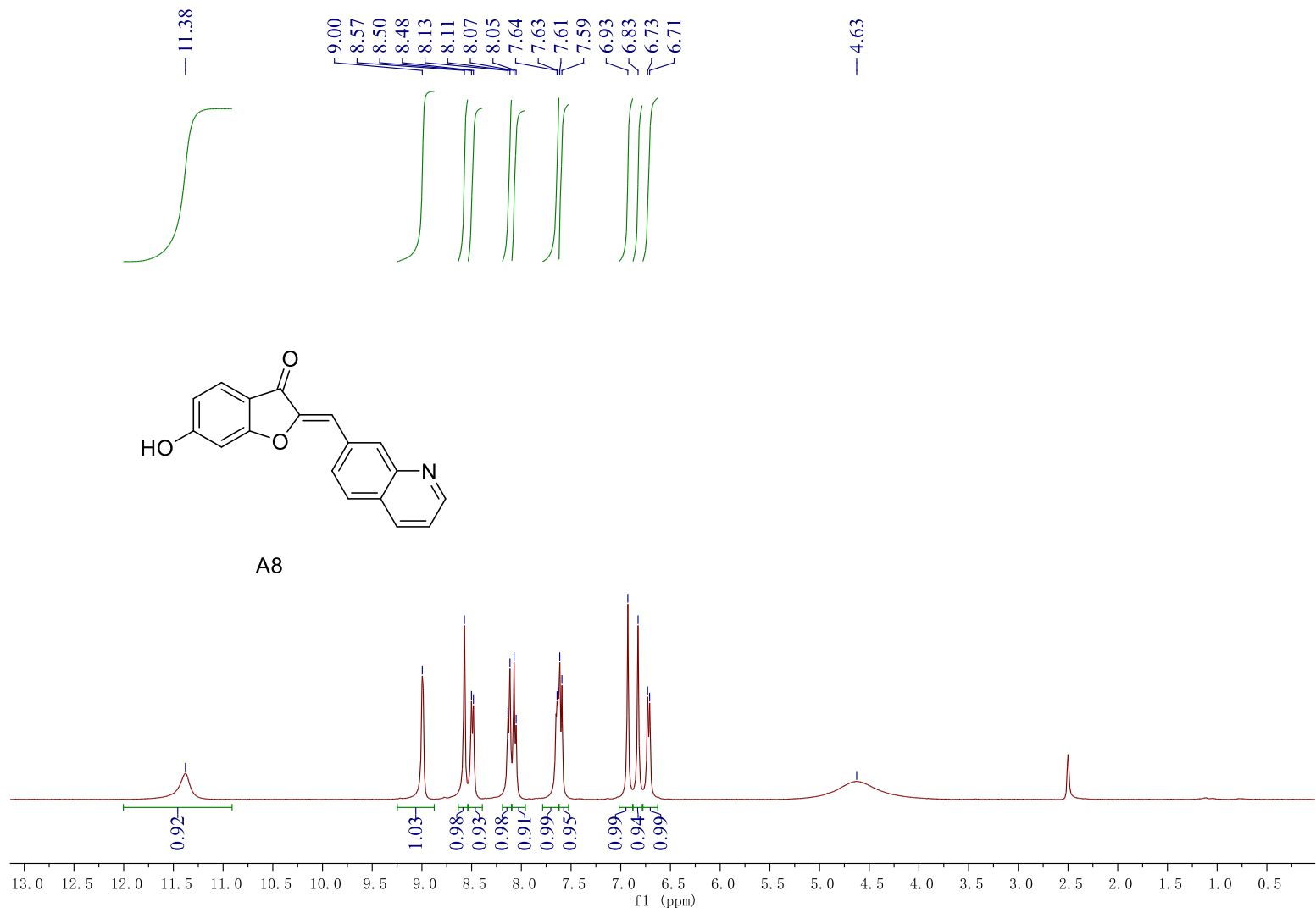
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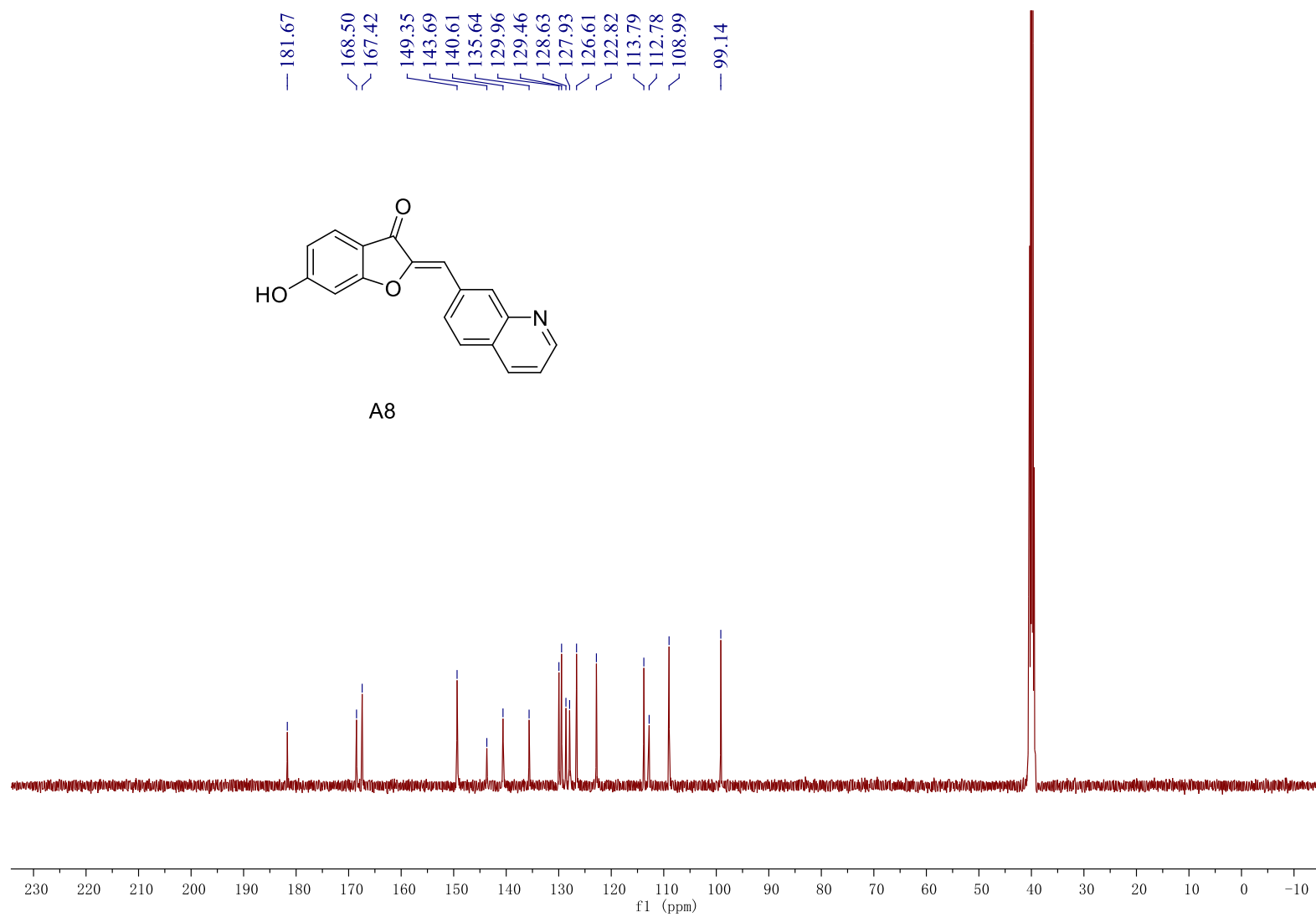
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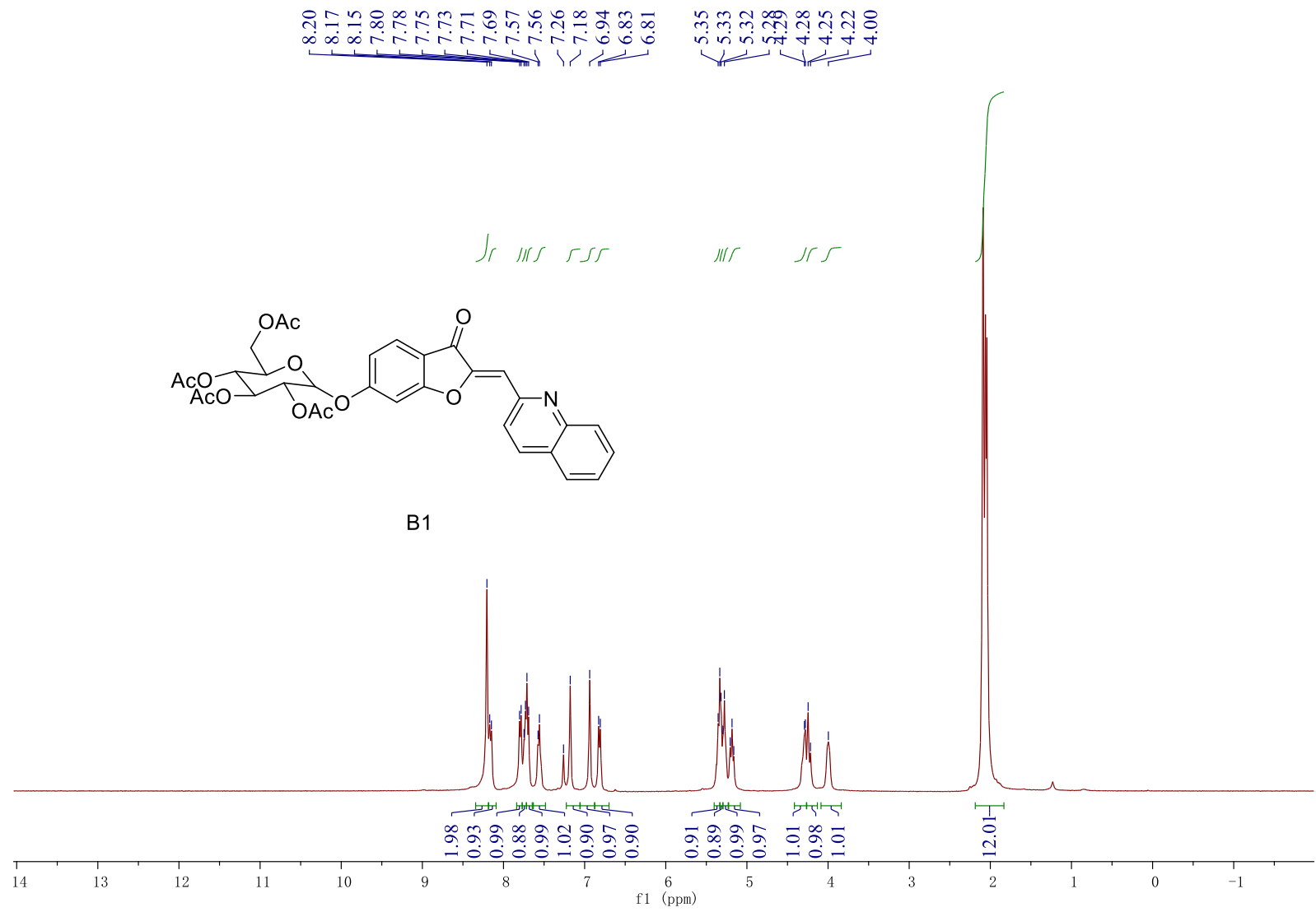
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¹H NMR of compound A8

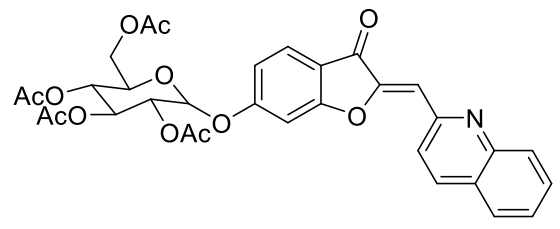


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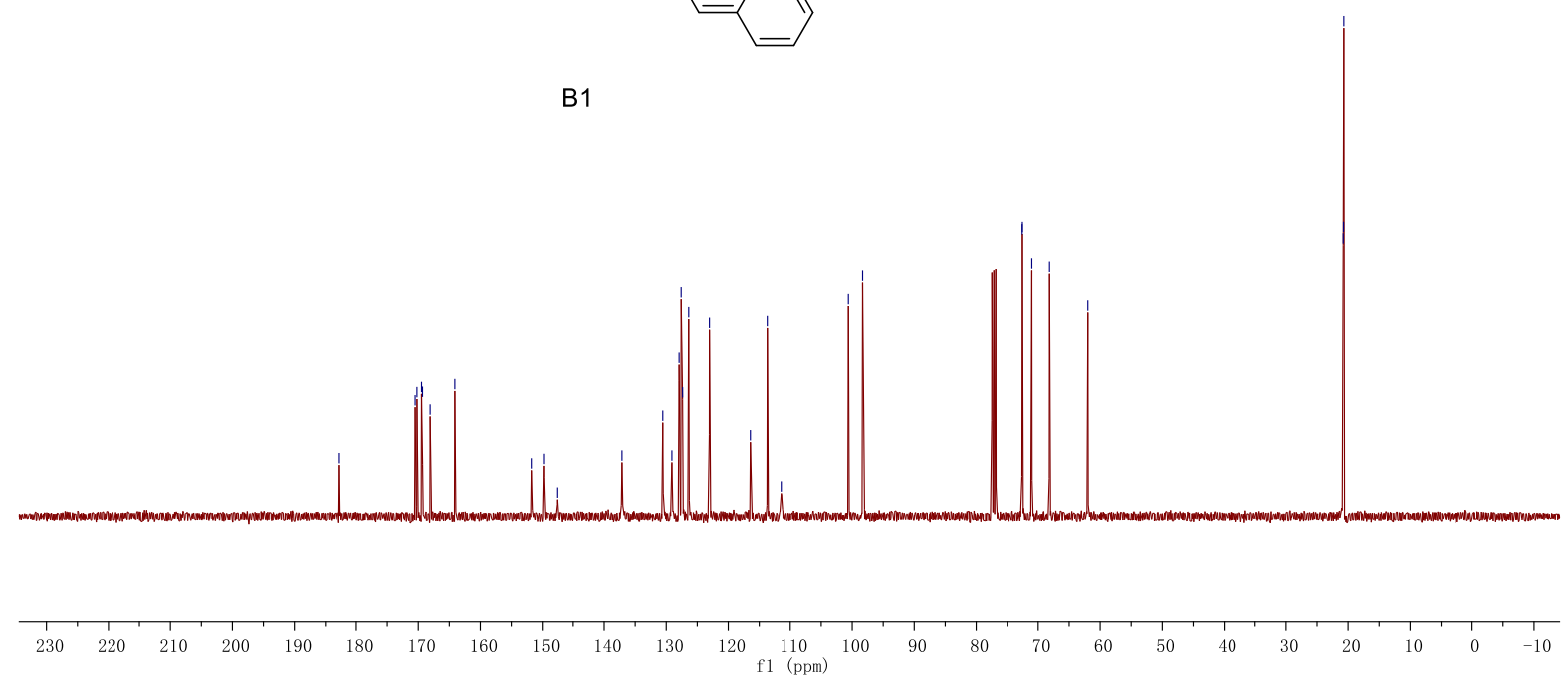


¹H NMR of compound B1

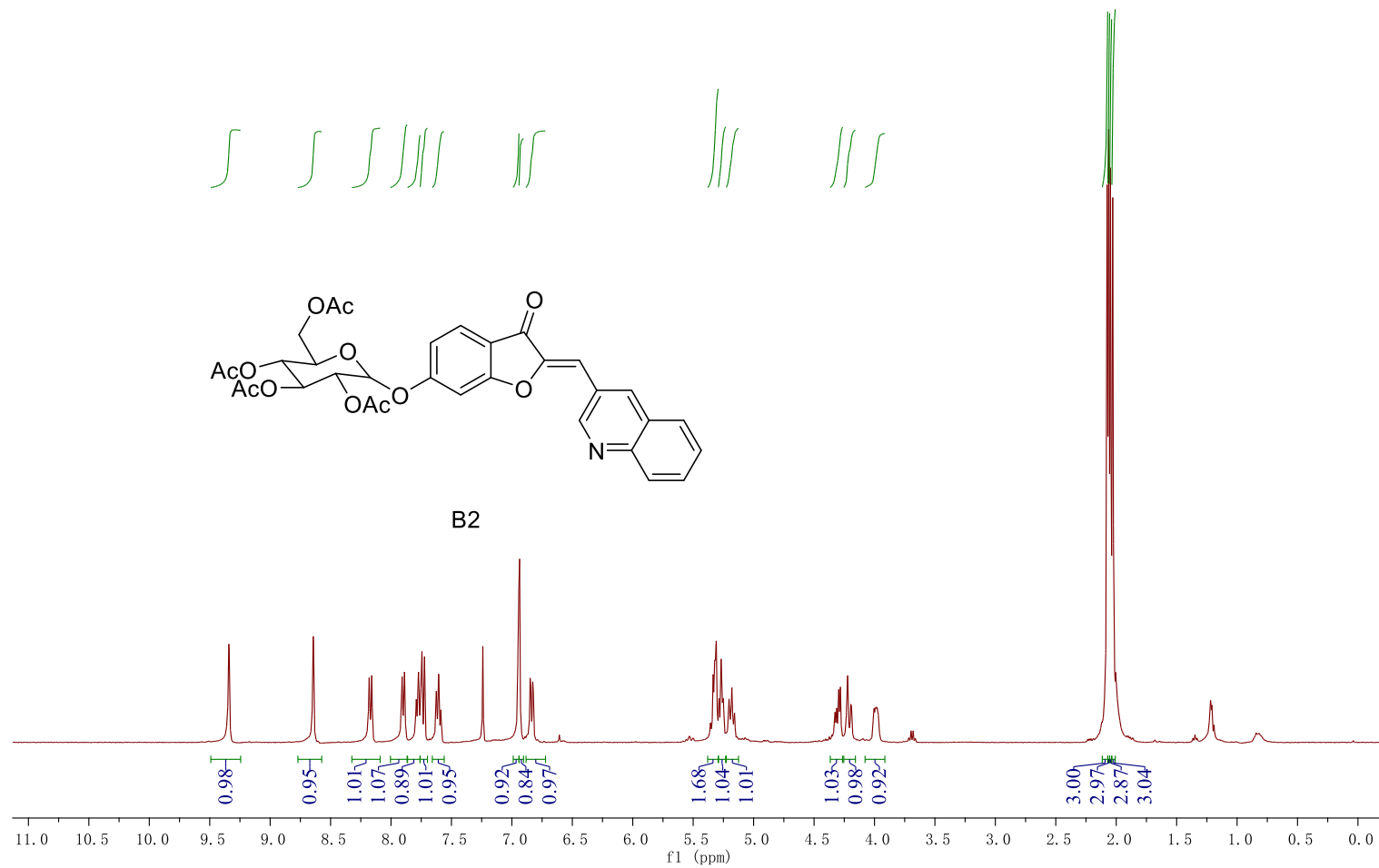
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 147.66
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 127.37
 126.38
 123.04
 116.43
 100.62
 98.32
 72.58
 72.55
 71.02
 68.17
 61.98
 20.78
 20.73
 20.69



B1



¹³CNMR of compound B1

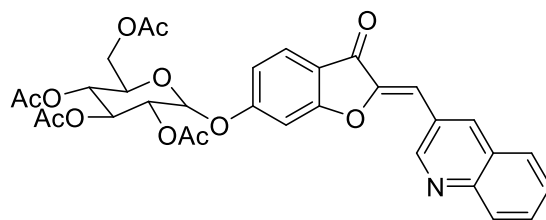


¹H NMR of compound B2

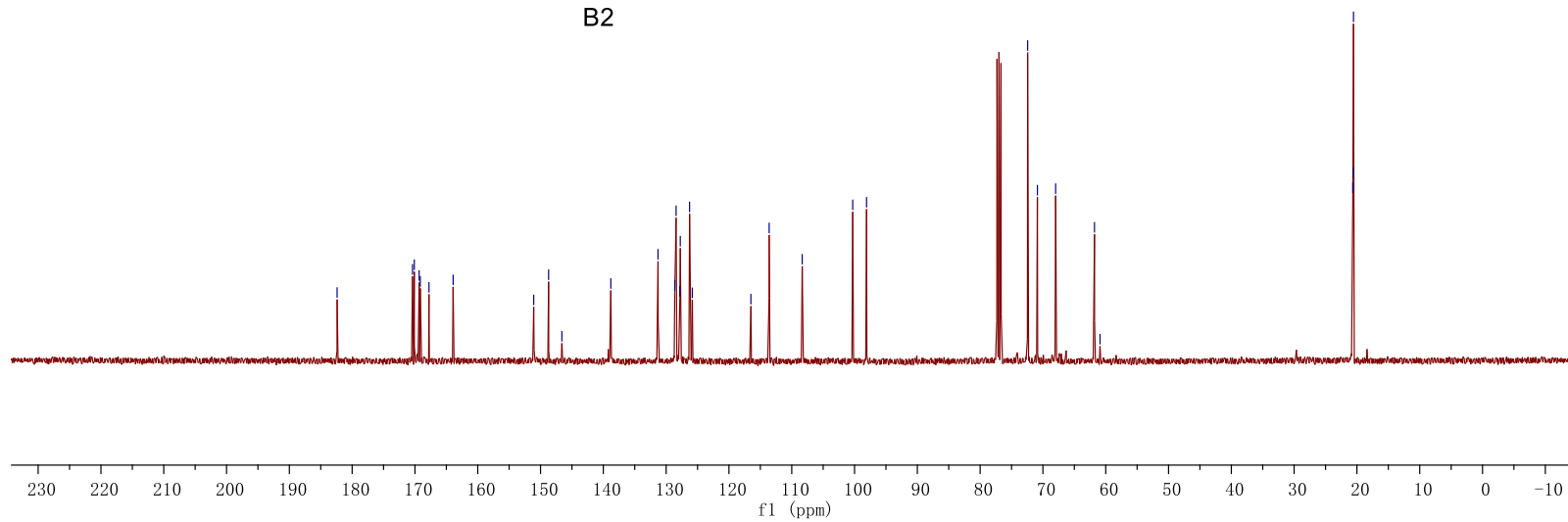
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170.39
170.10
169.33
169.15
163.92
148.71
138.81
131.29
128.63
128.41
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127.75
126.27
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116.50
113.60
108.33
100.29
98.09

72.43
70.88
67.98
61.79
60.91

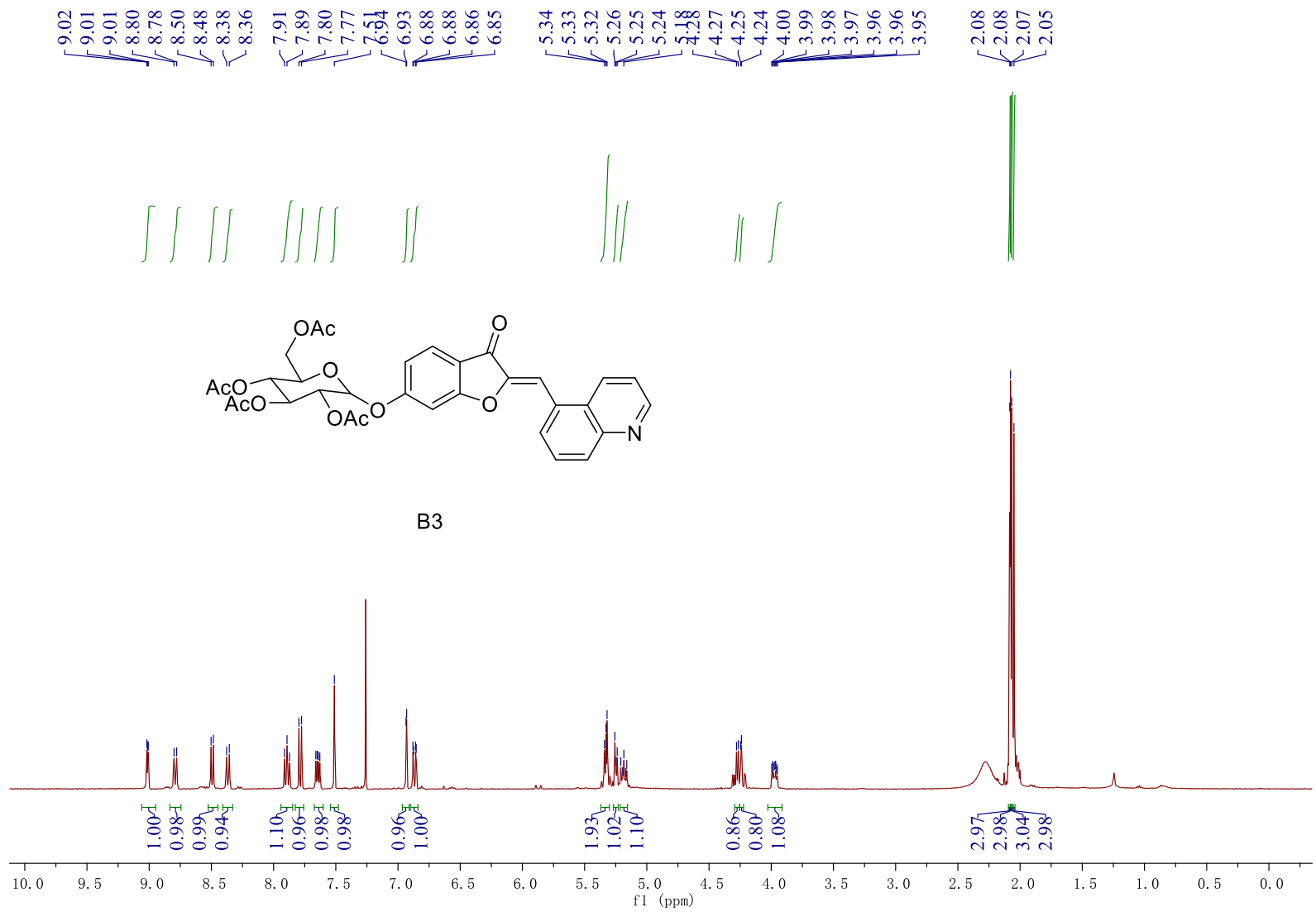
20.66
20.58
20.55



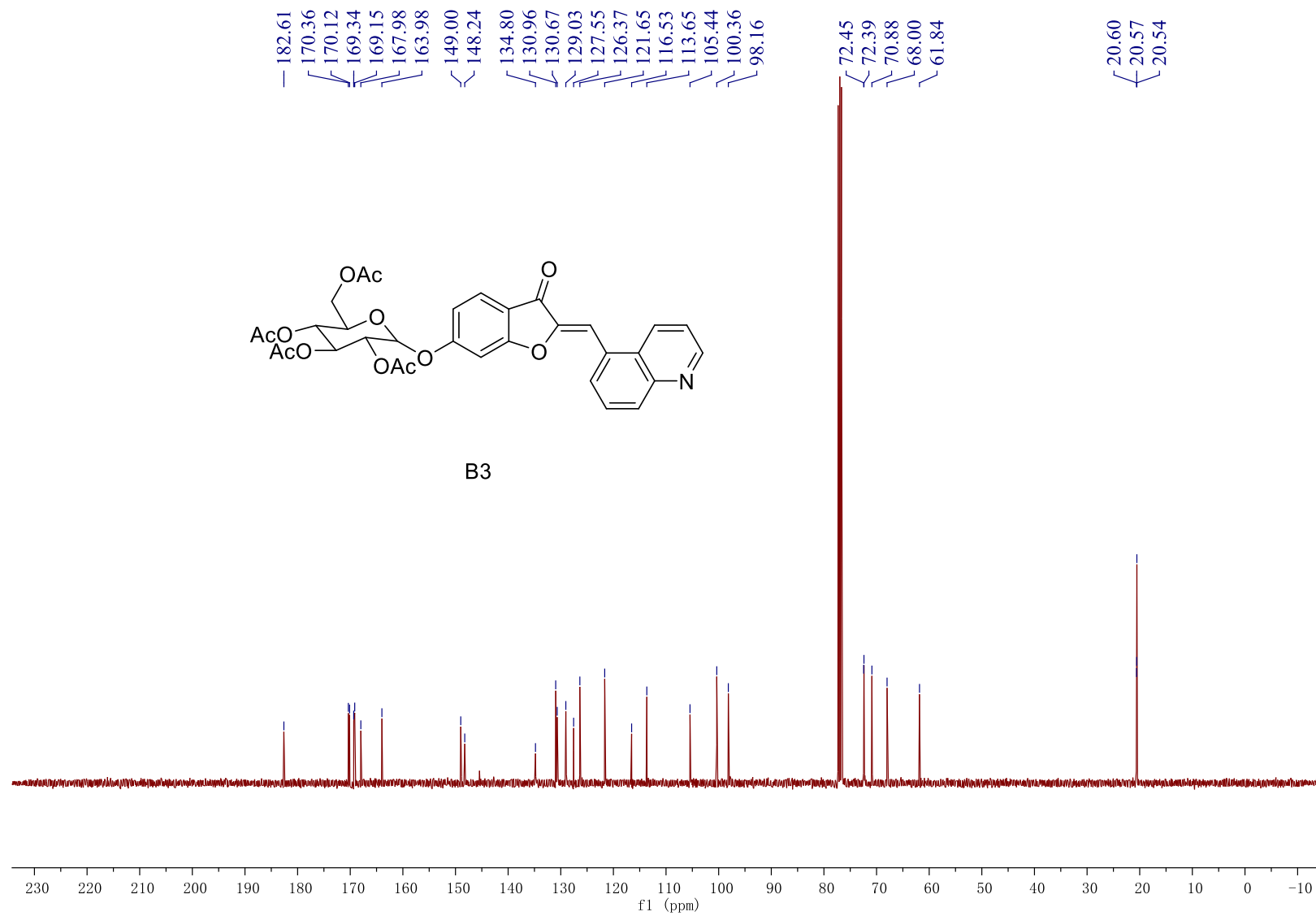
B2



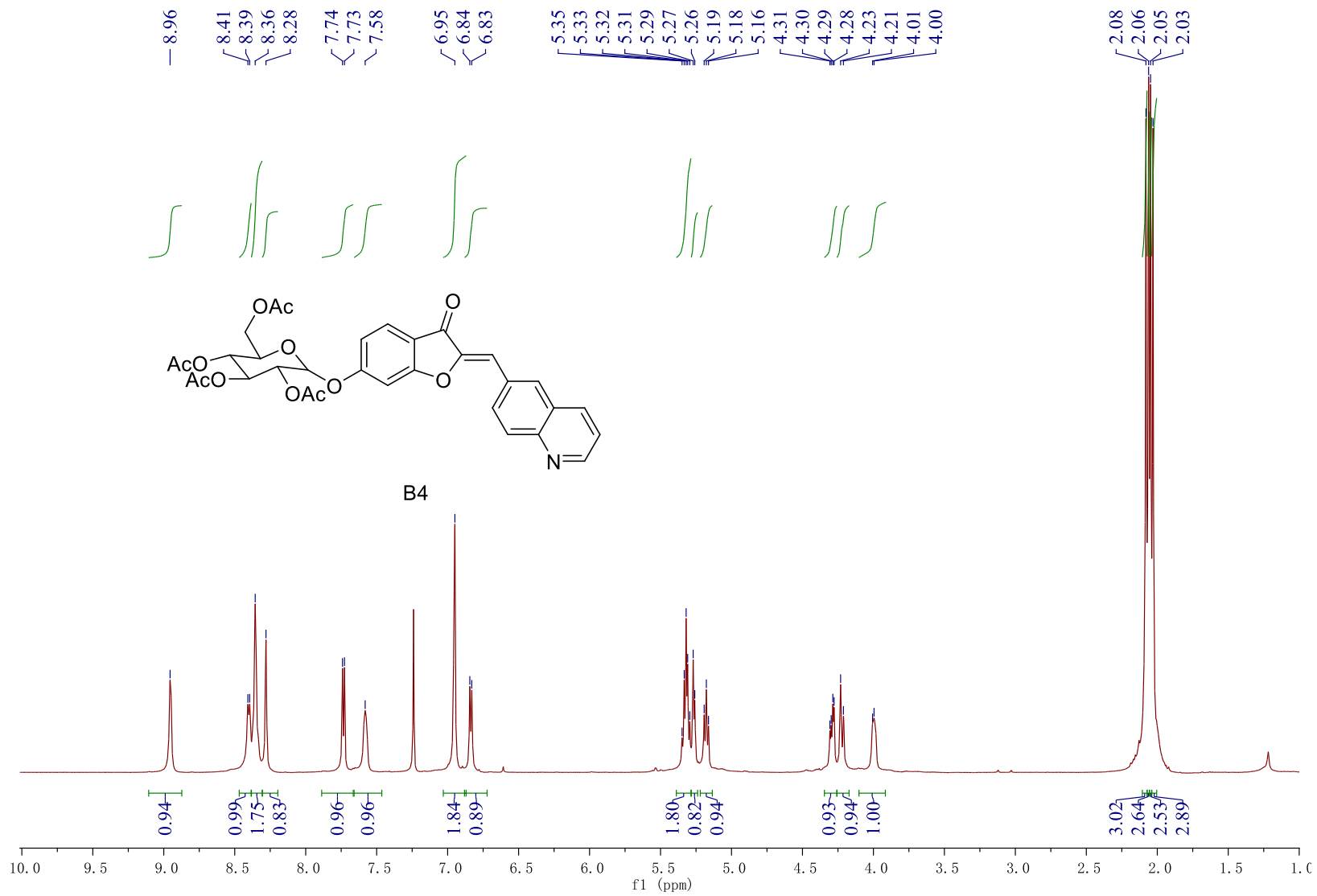
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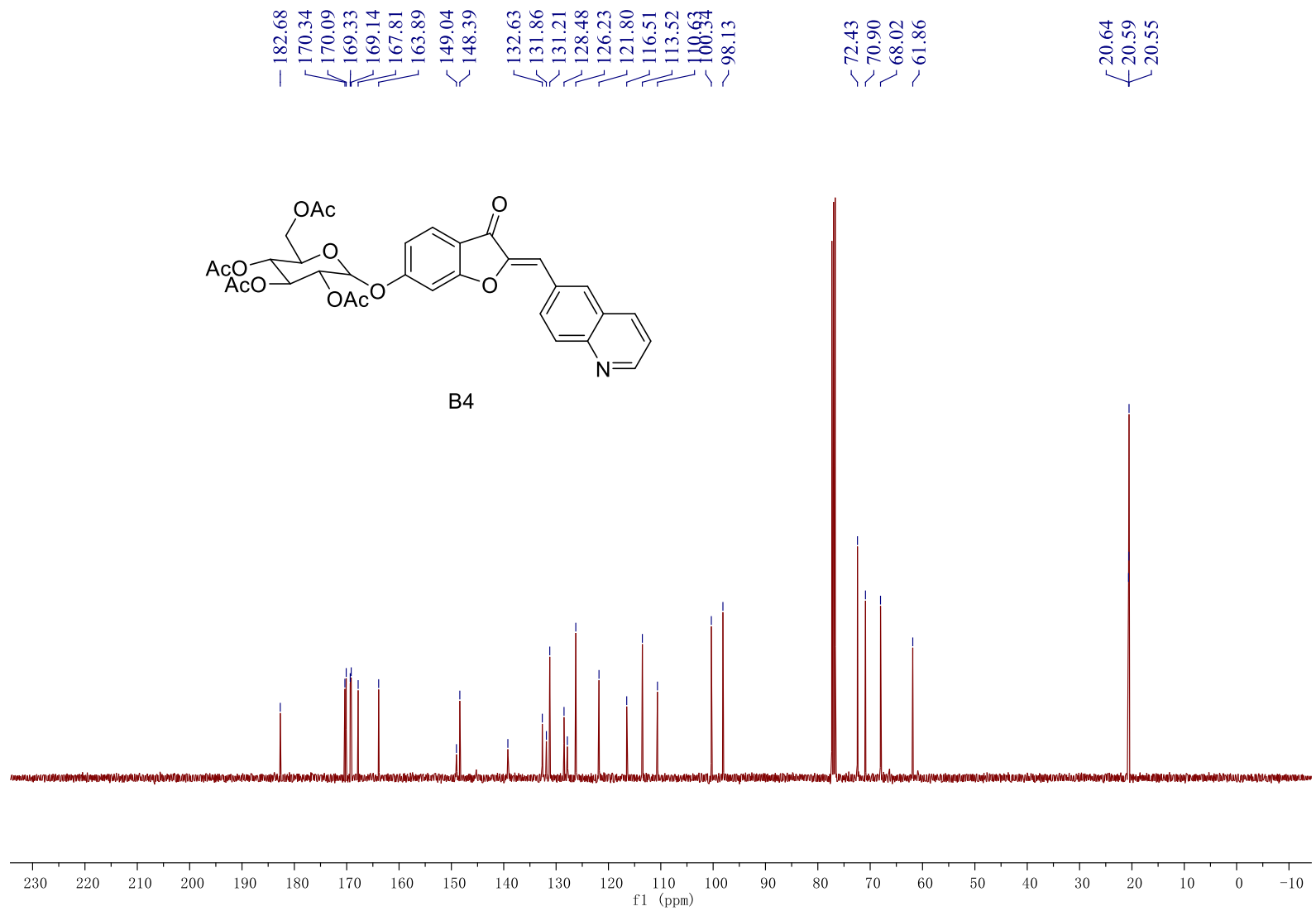
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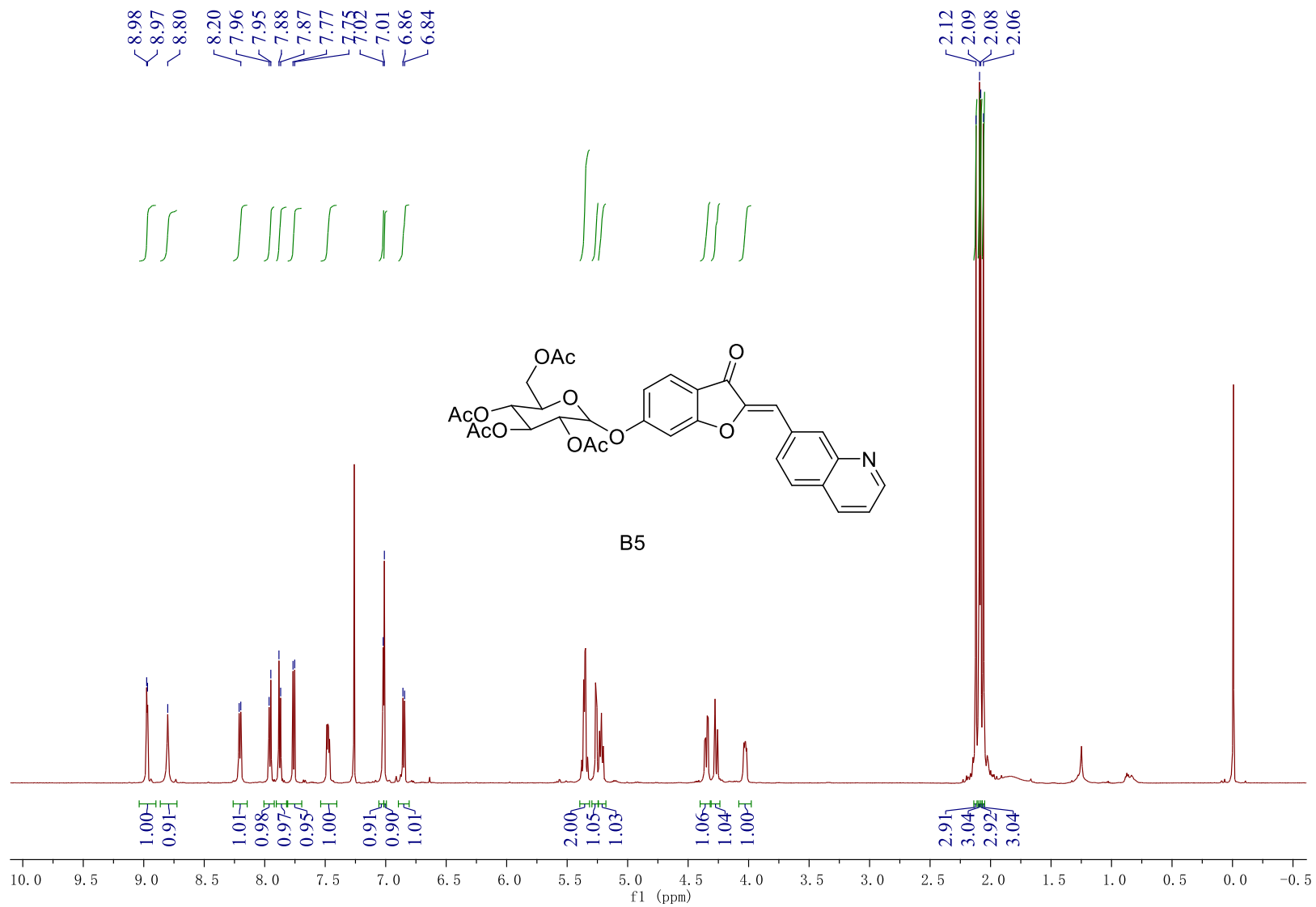
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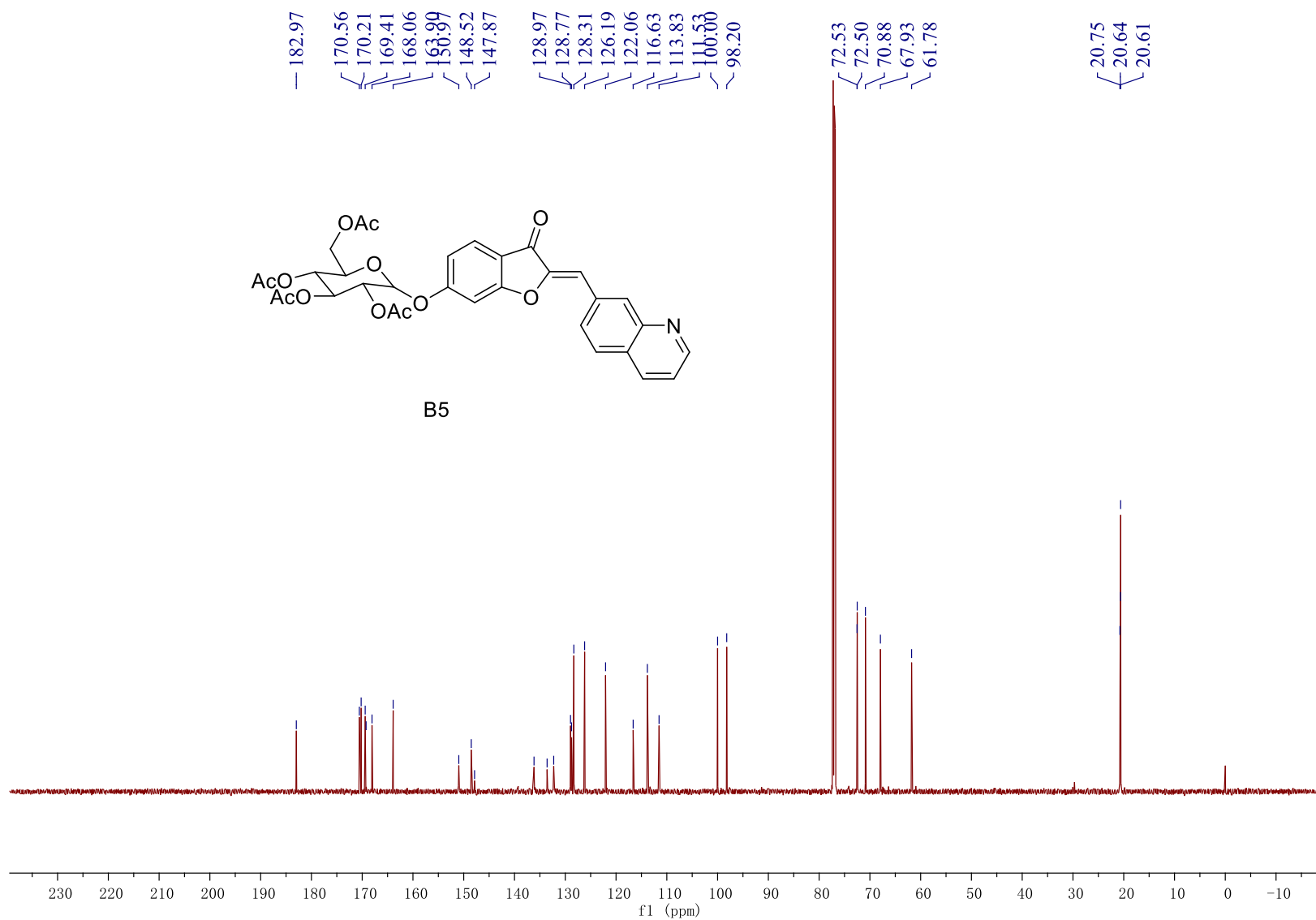
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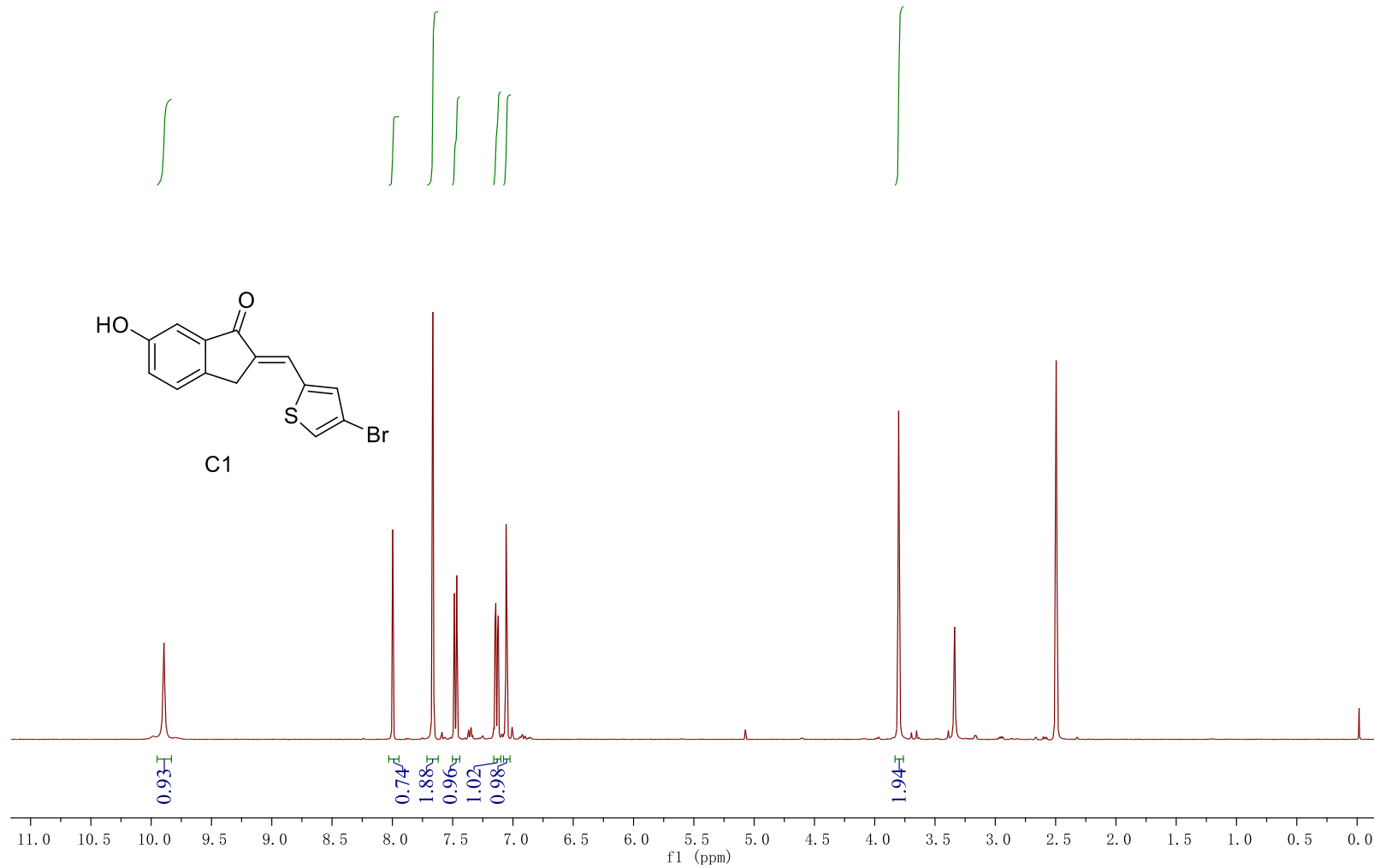
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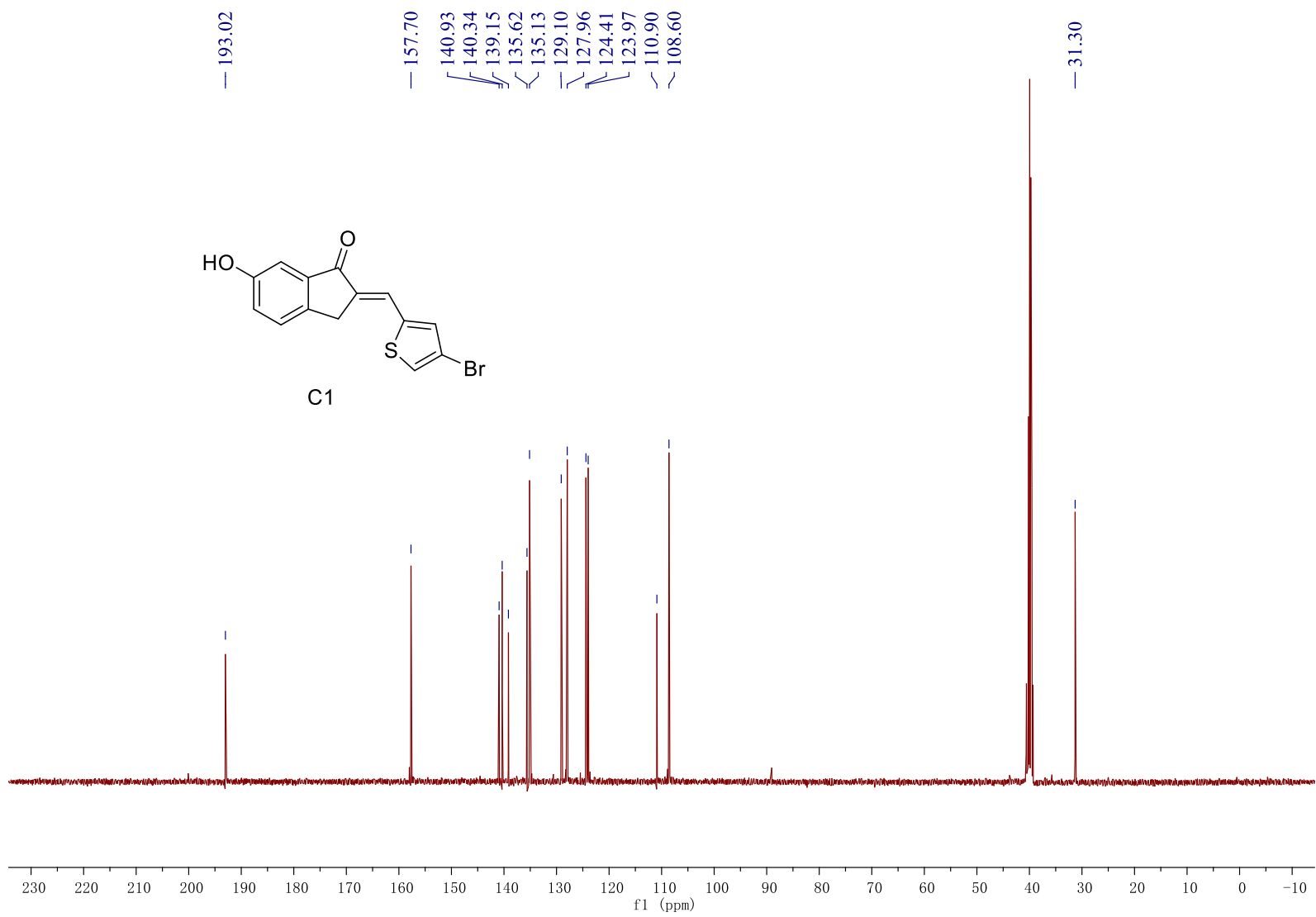
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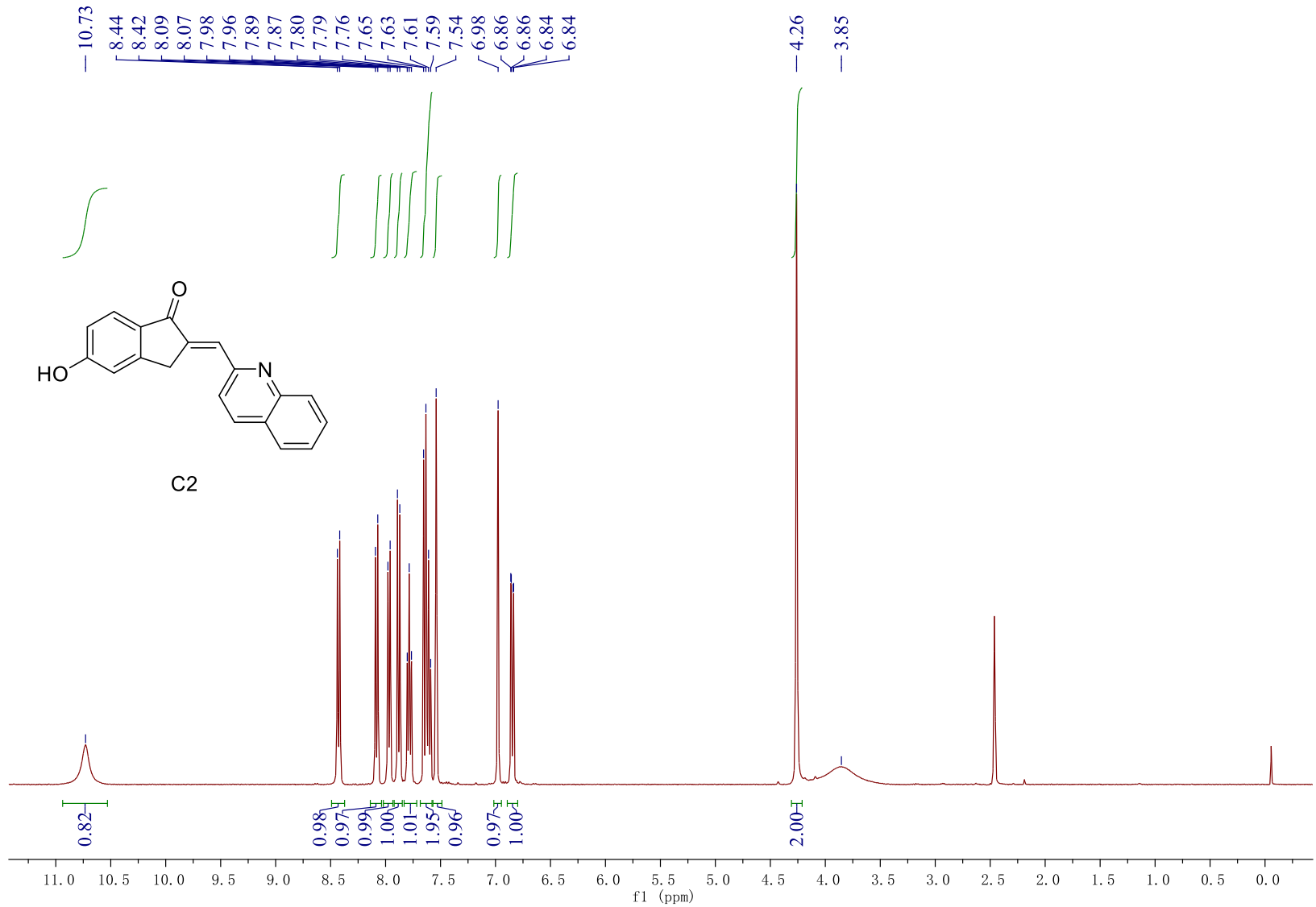
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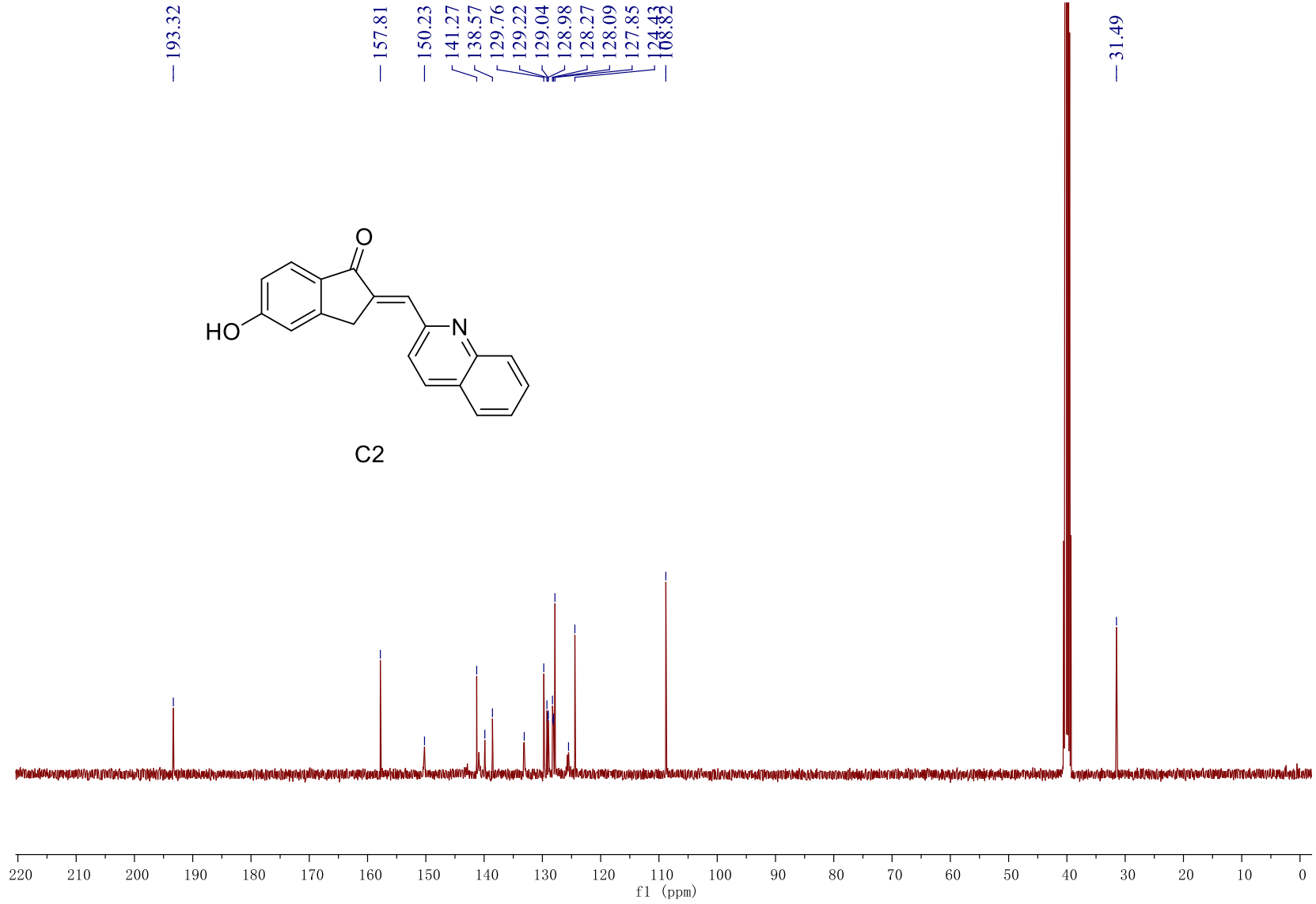
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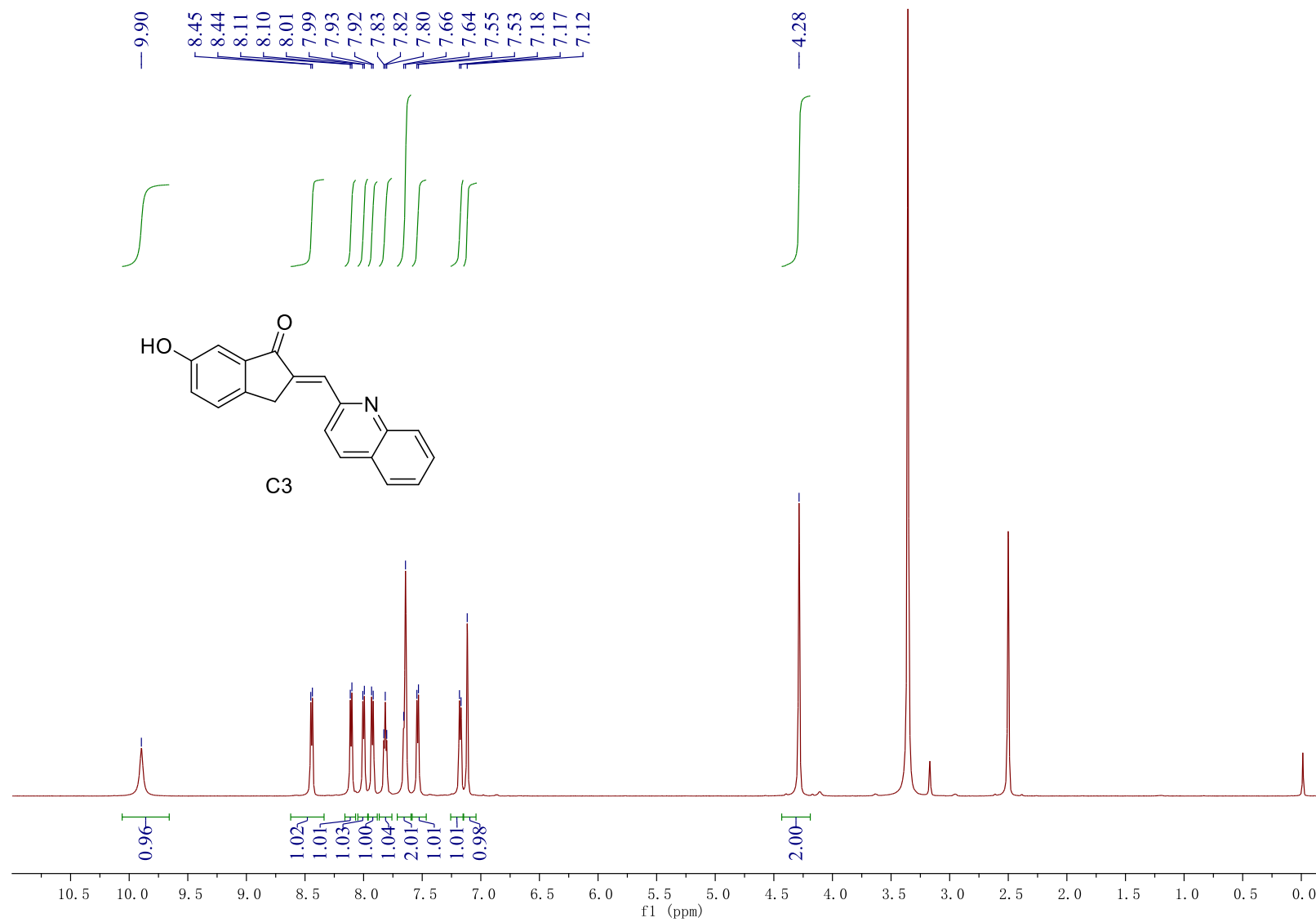
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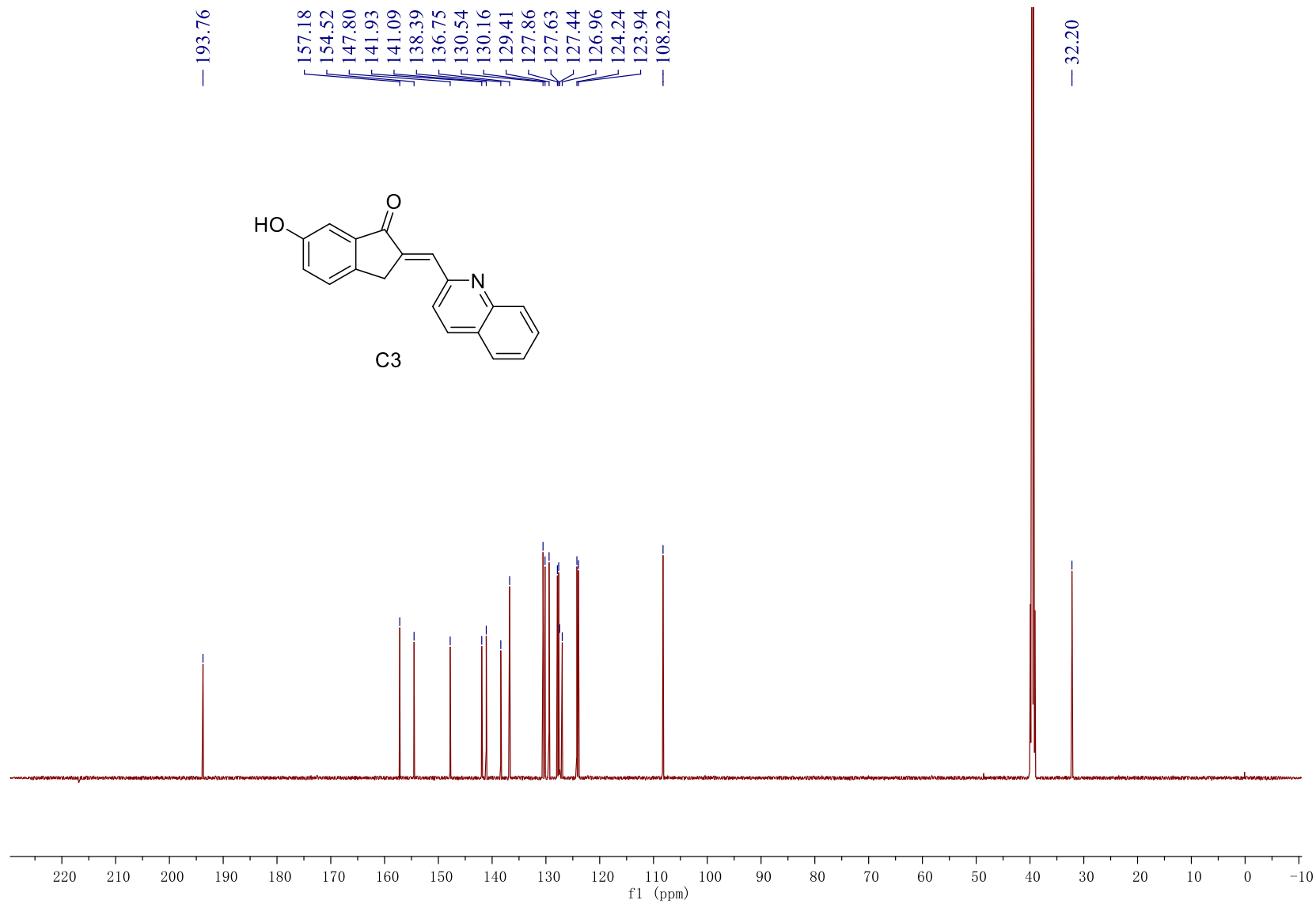
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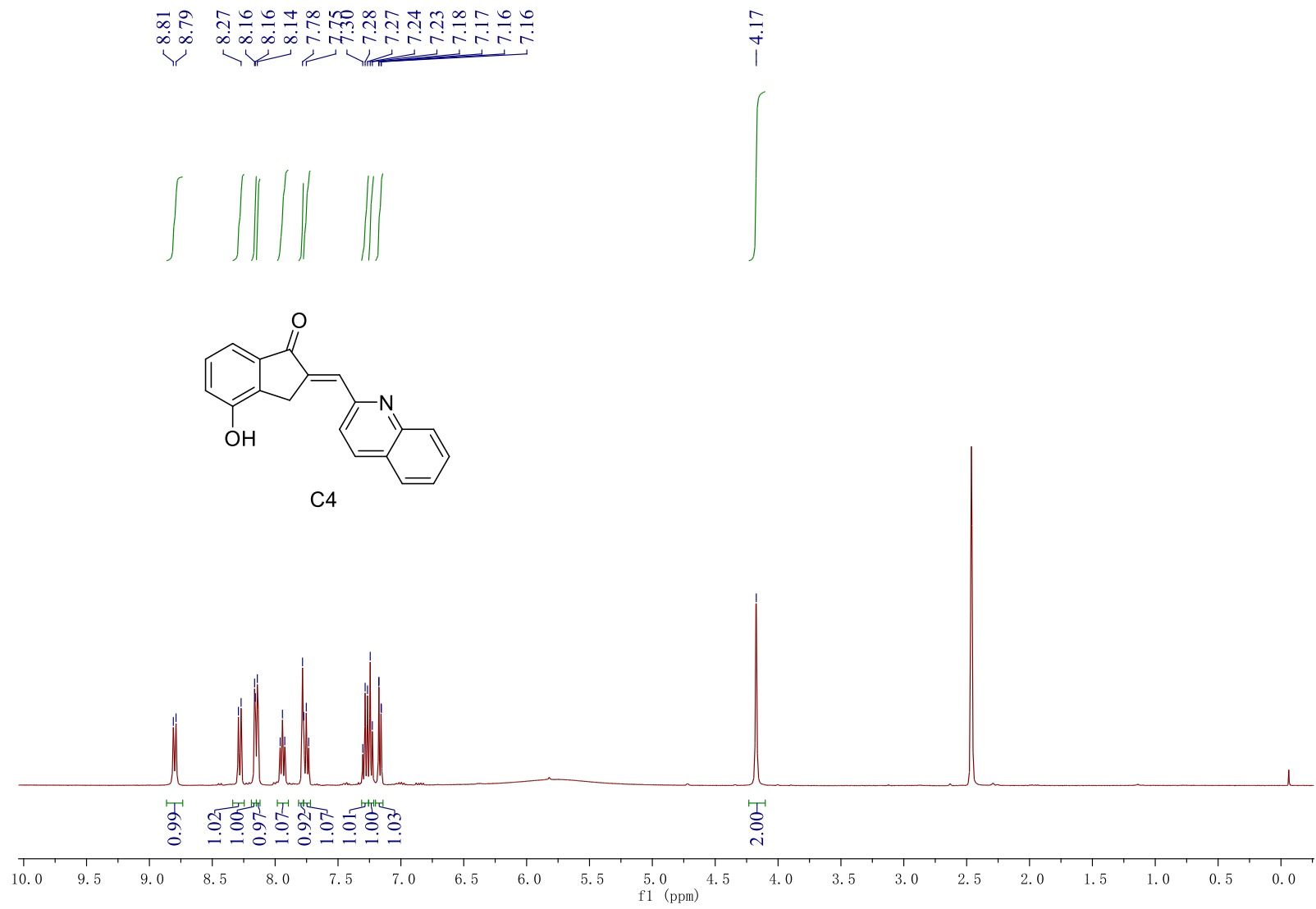
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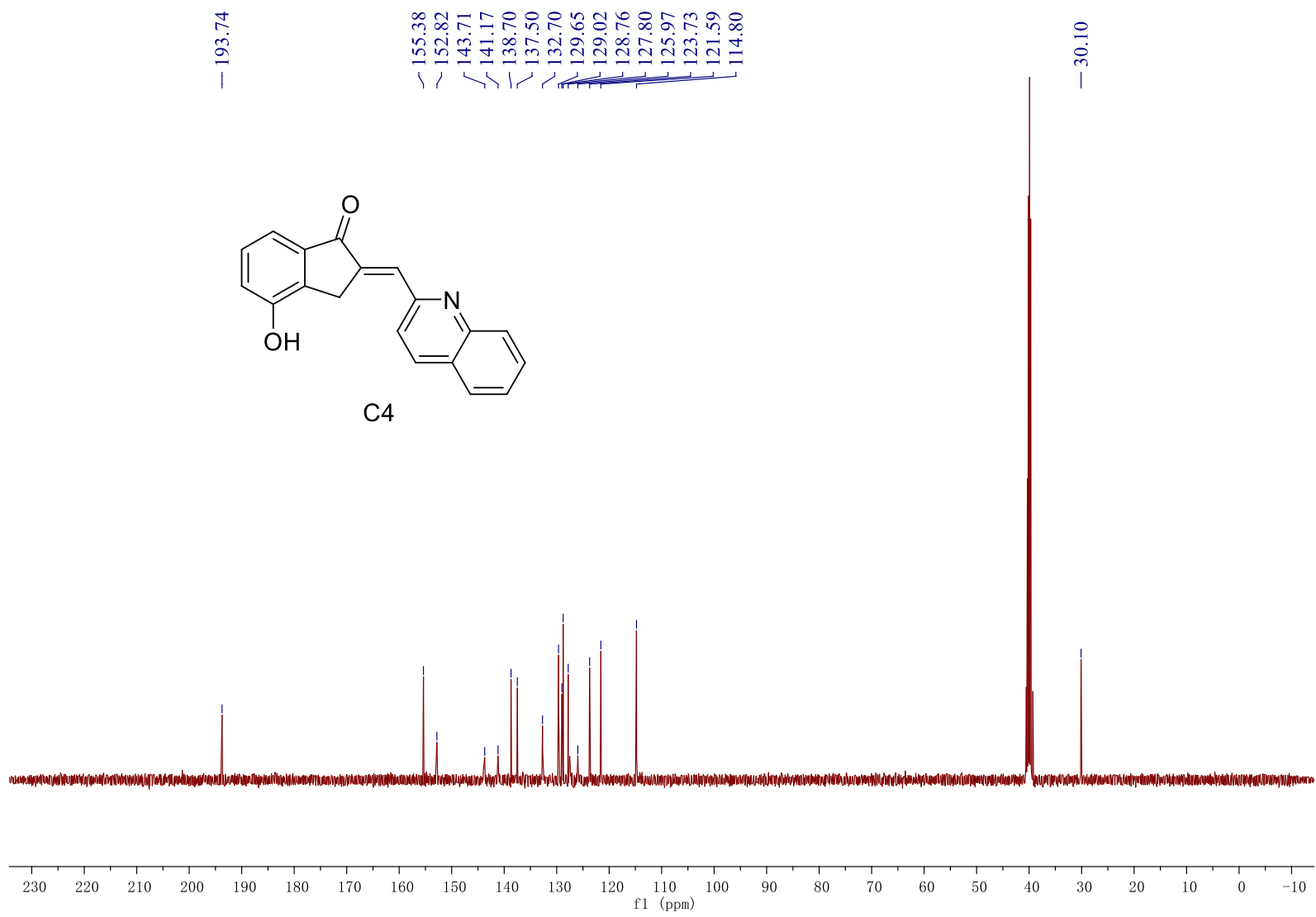
¹H NMR of compound C3



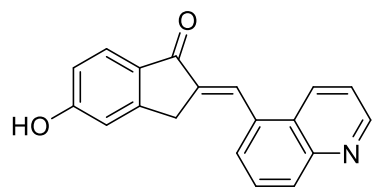
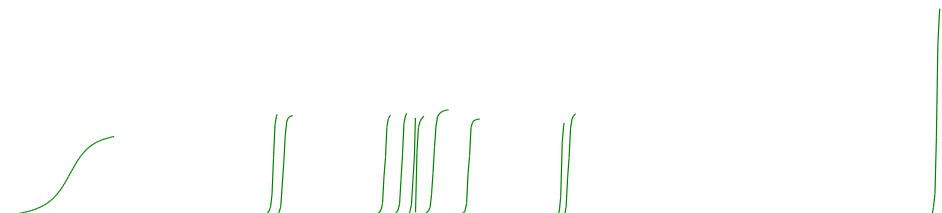
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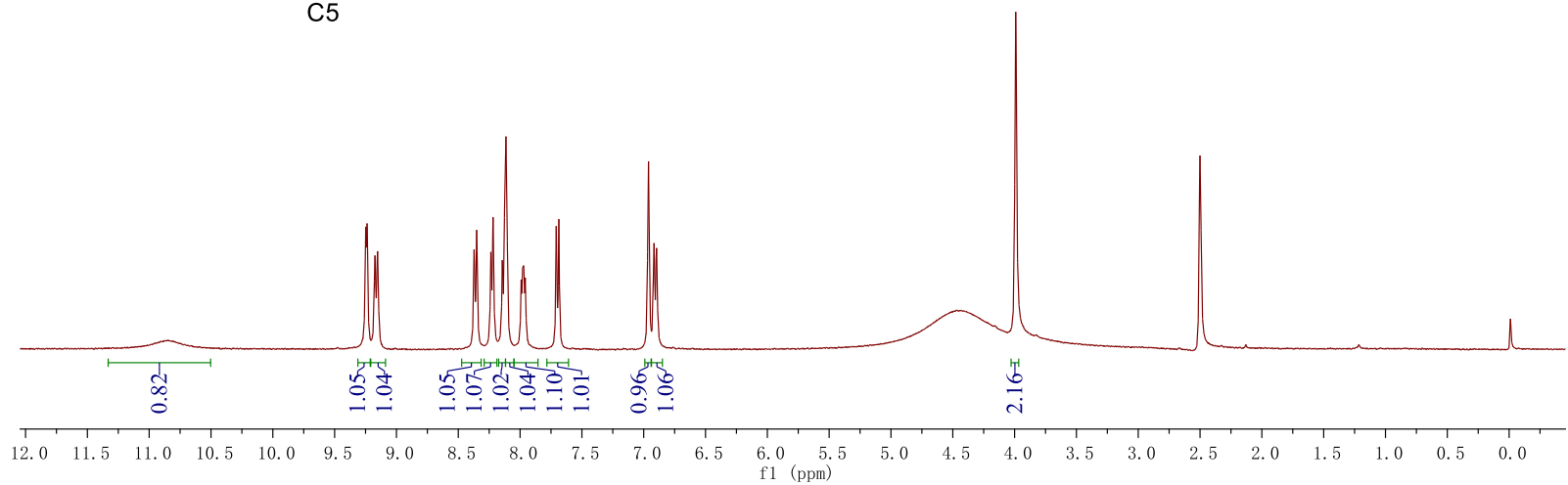
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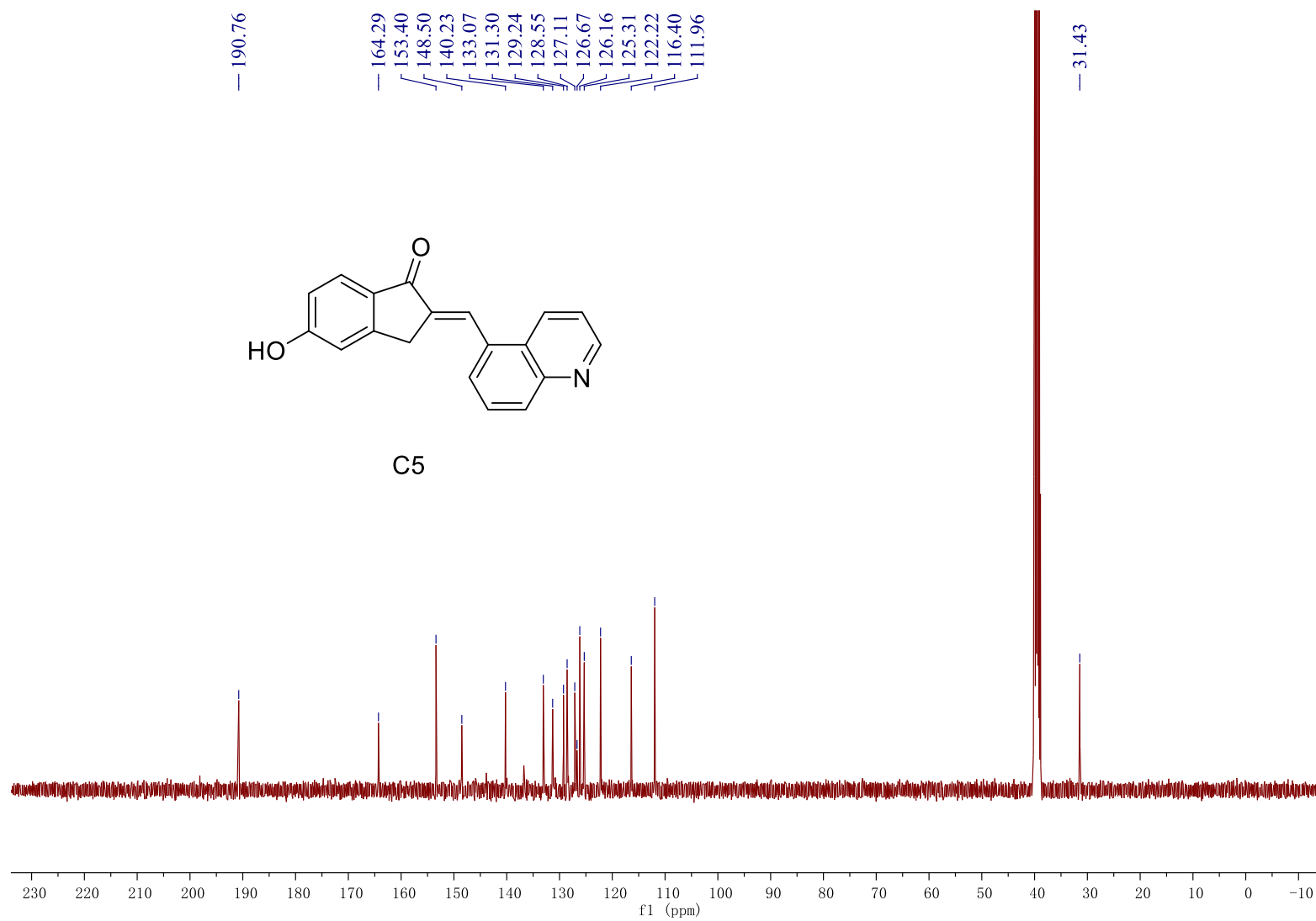
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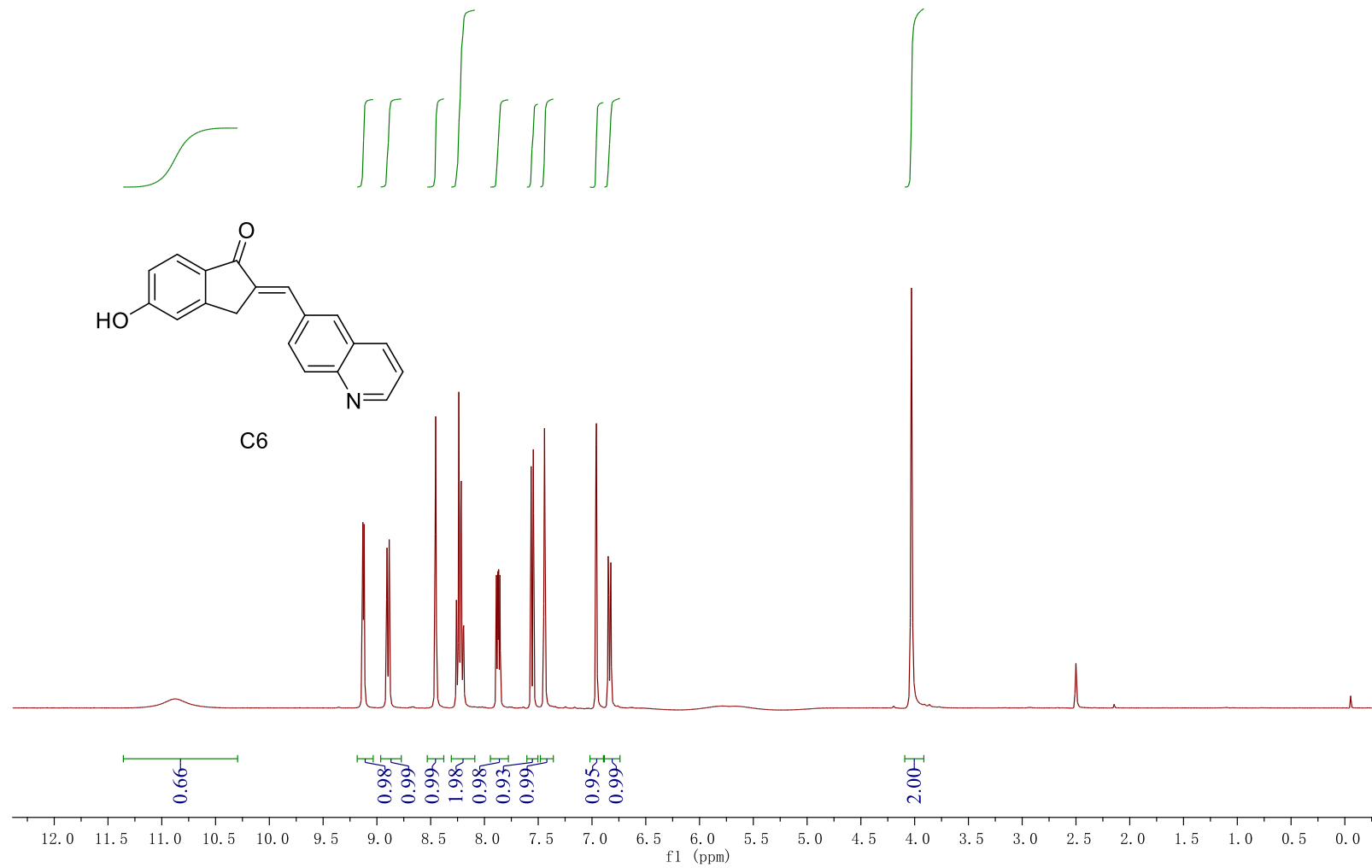
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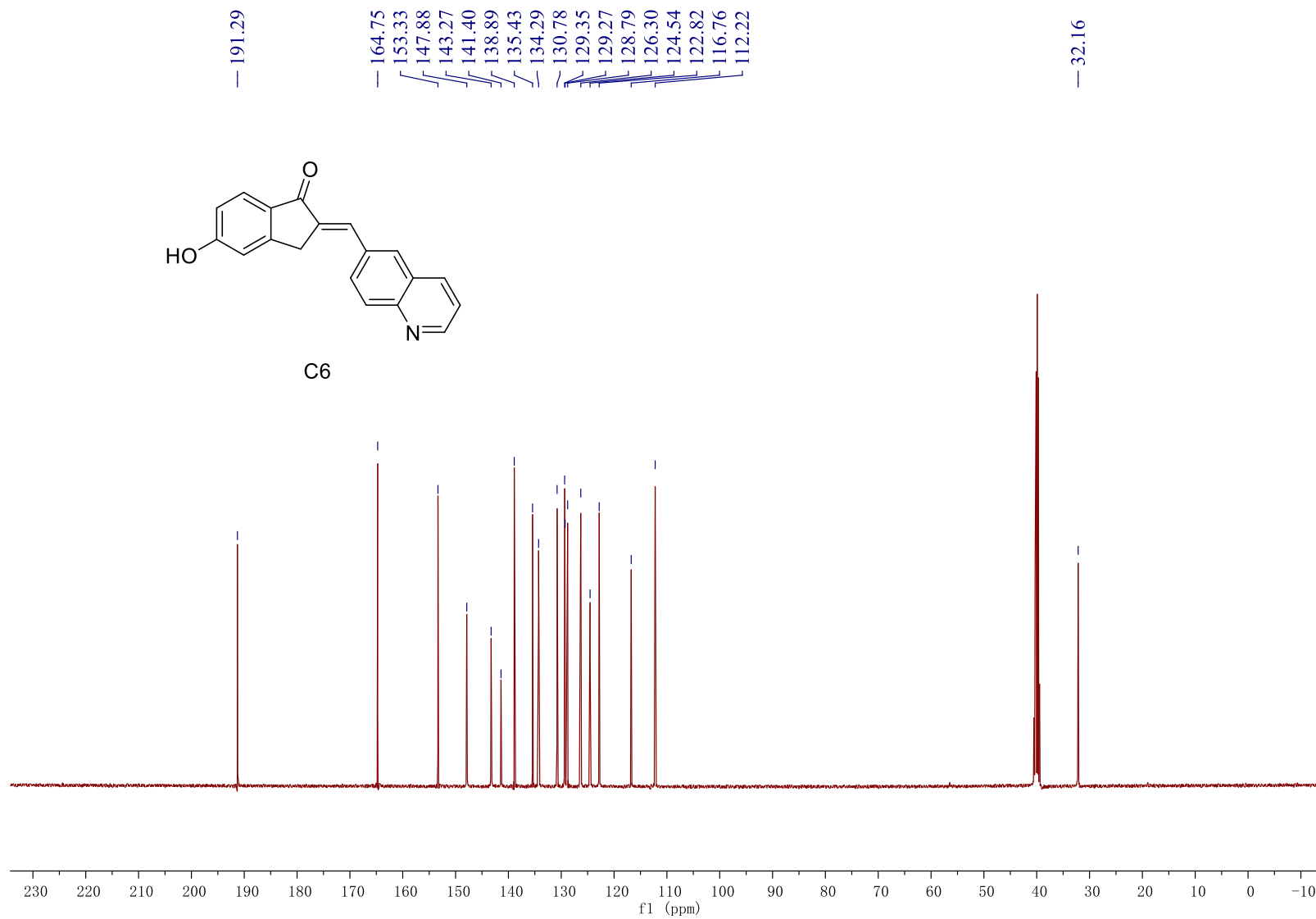
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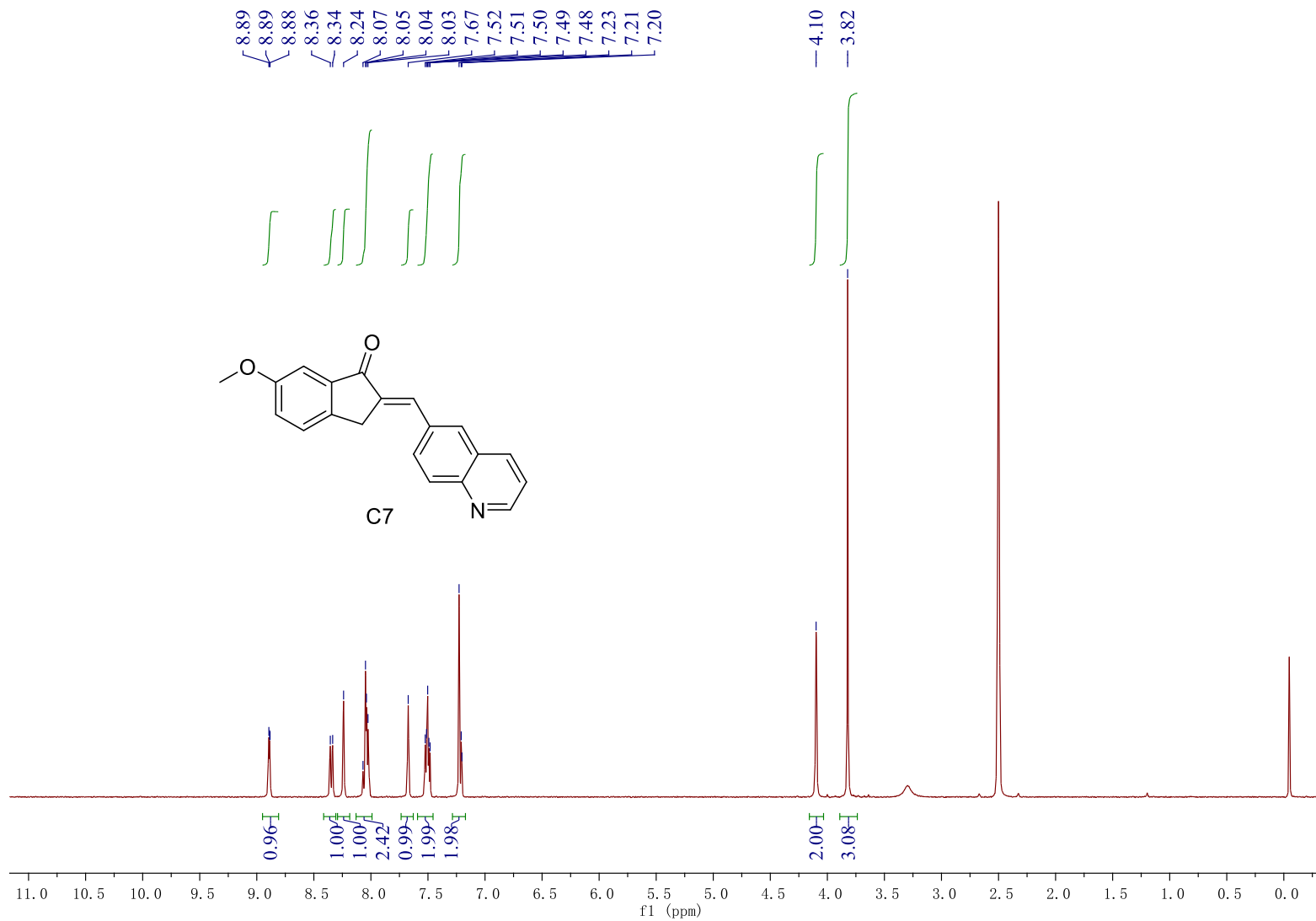
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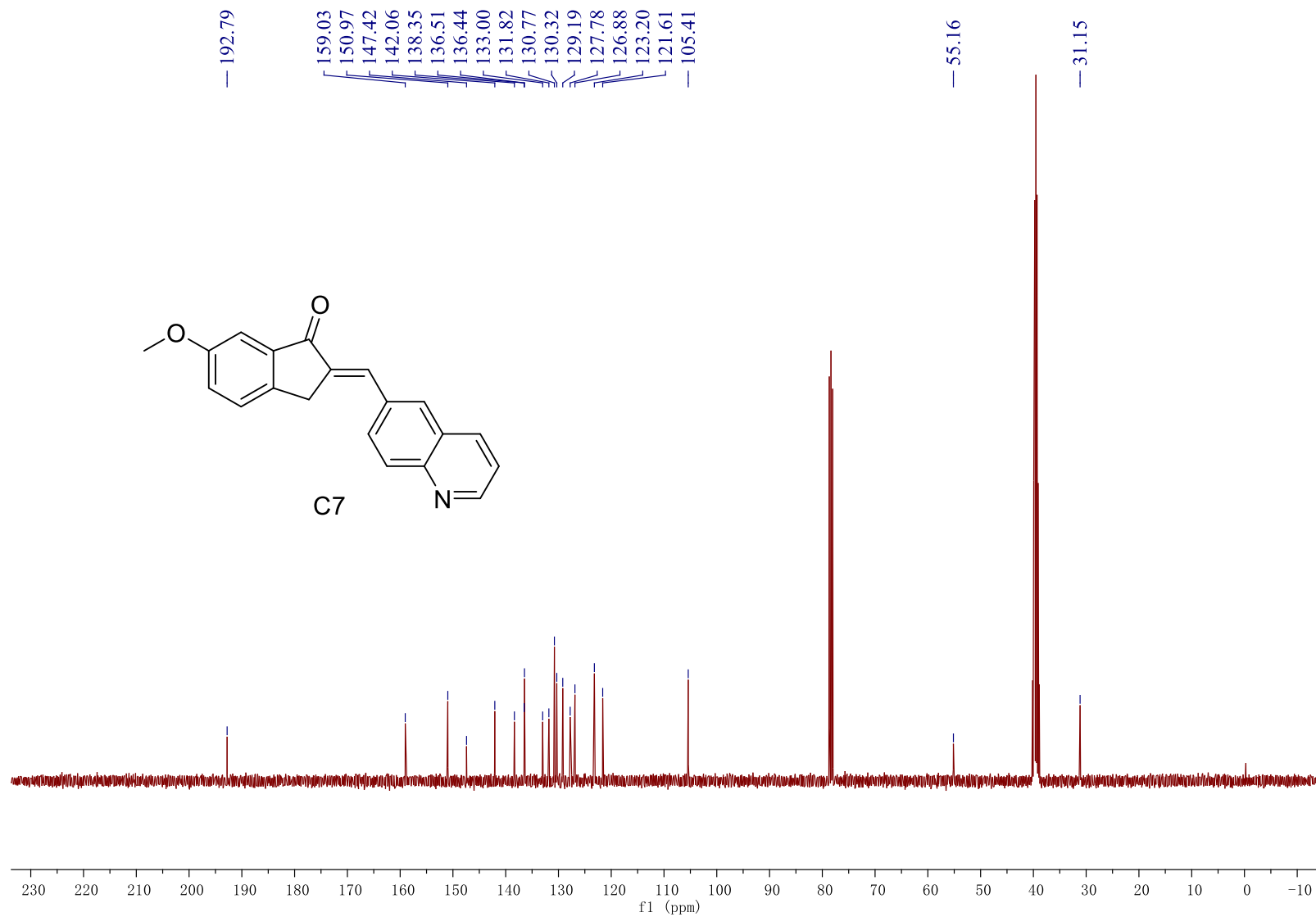
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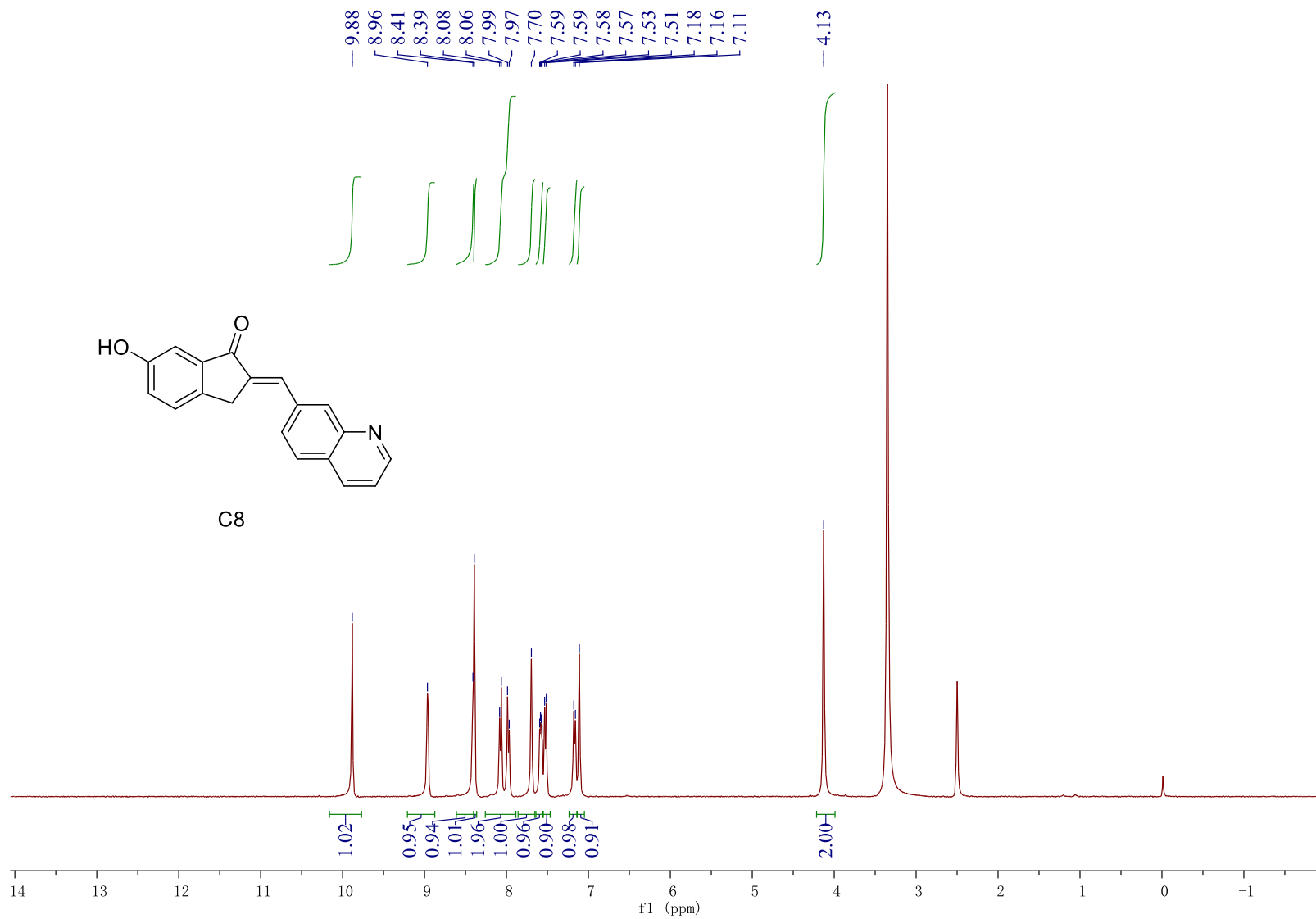
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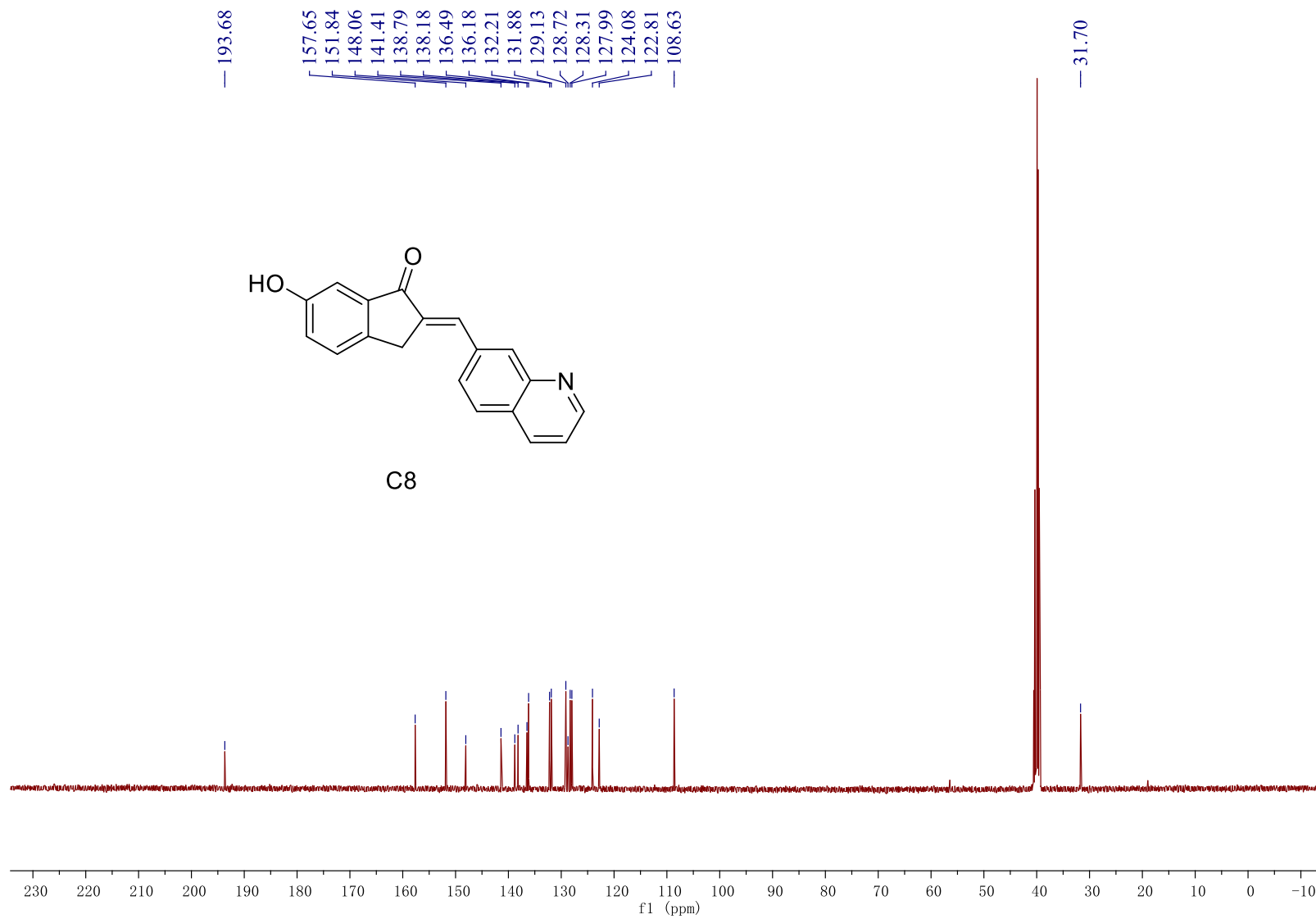
$^1\text{H NMR}$ of compound C7



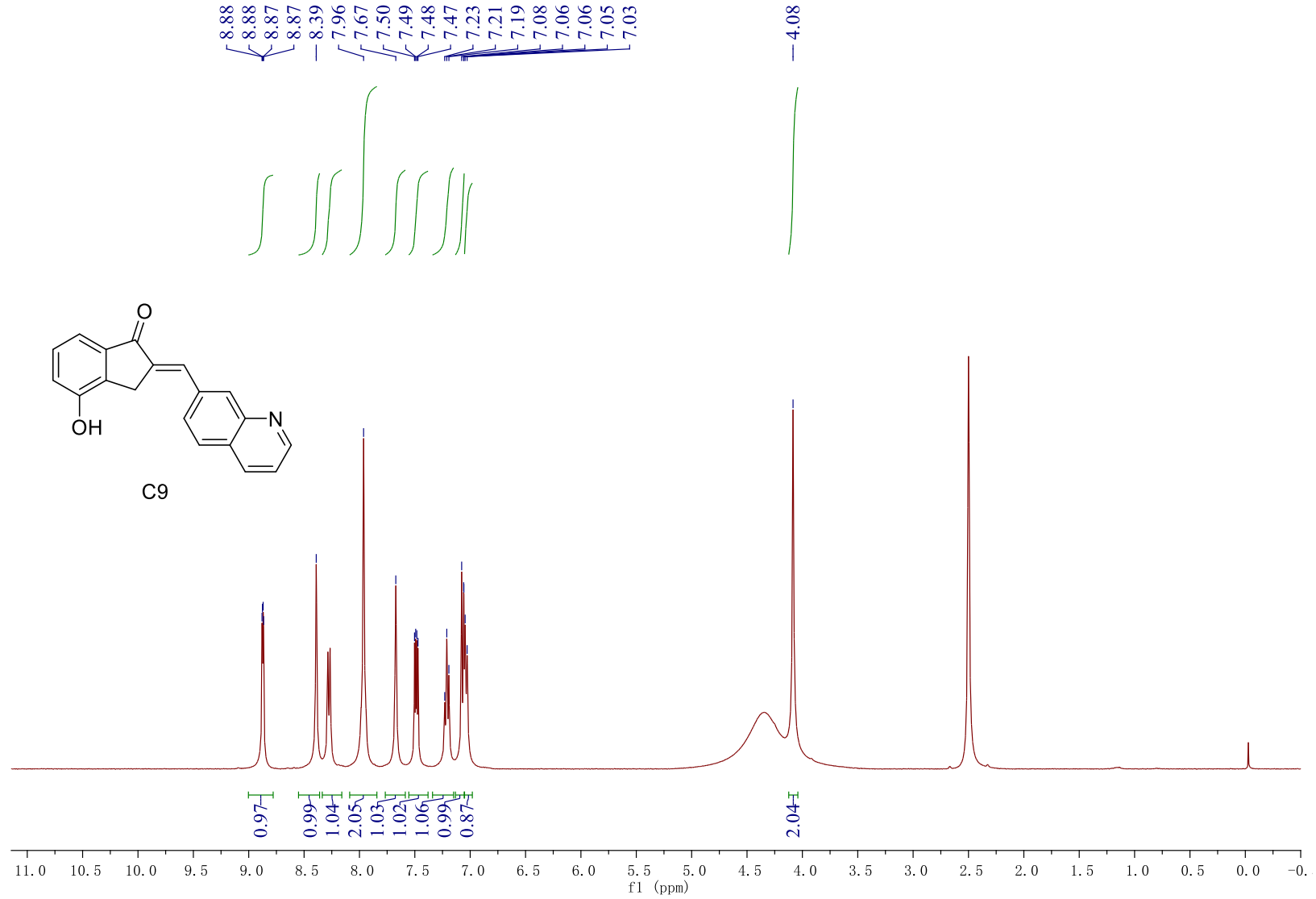
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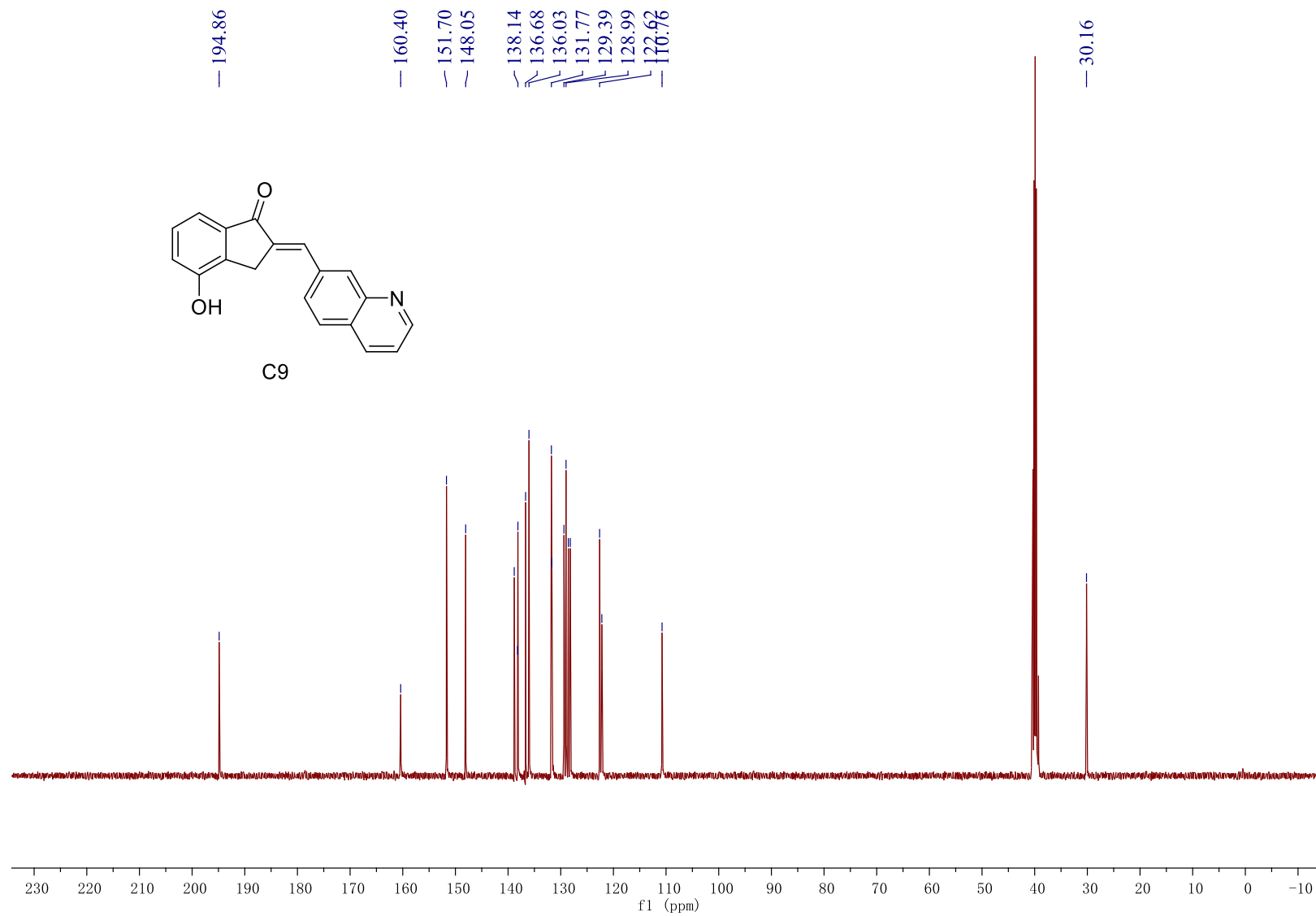
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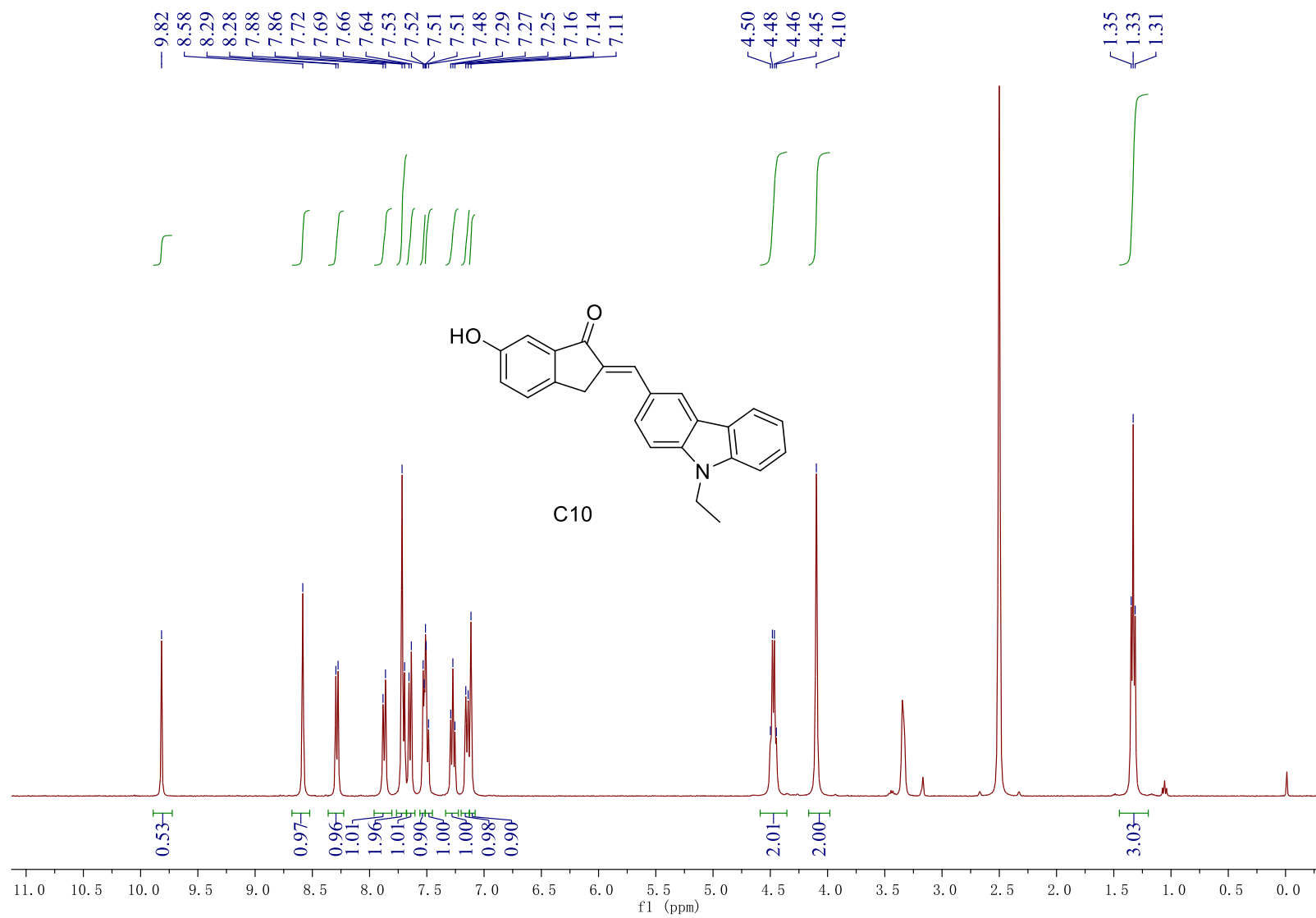
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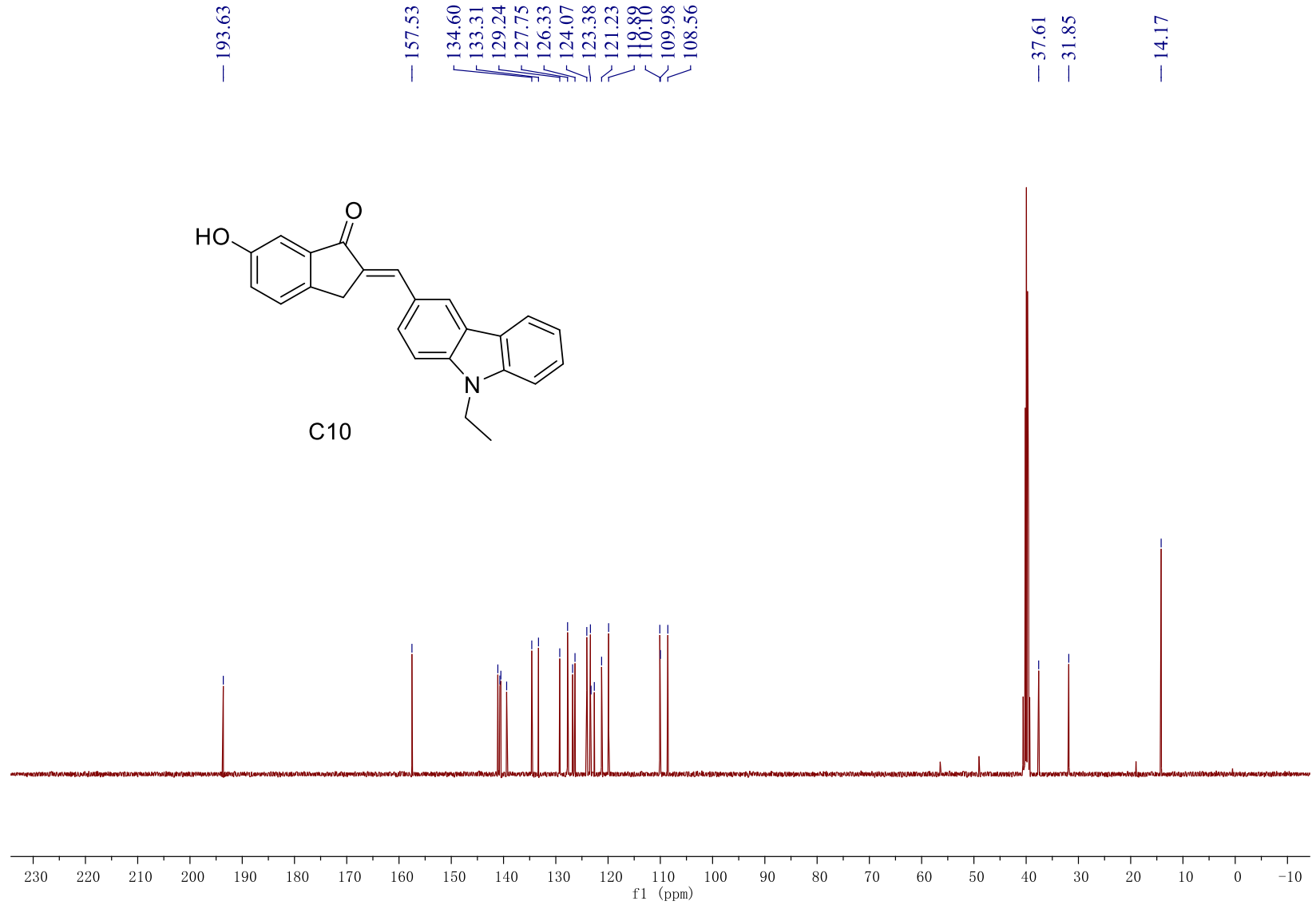
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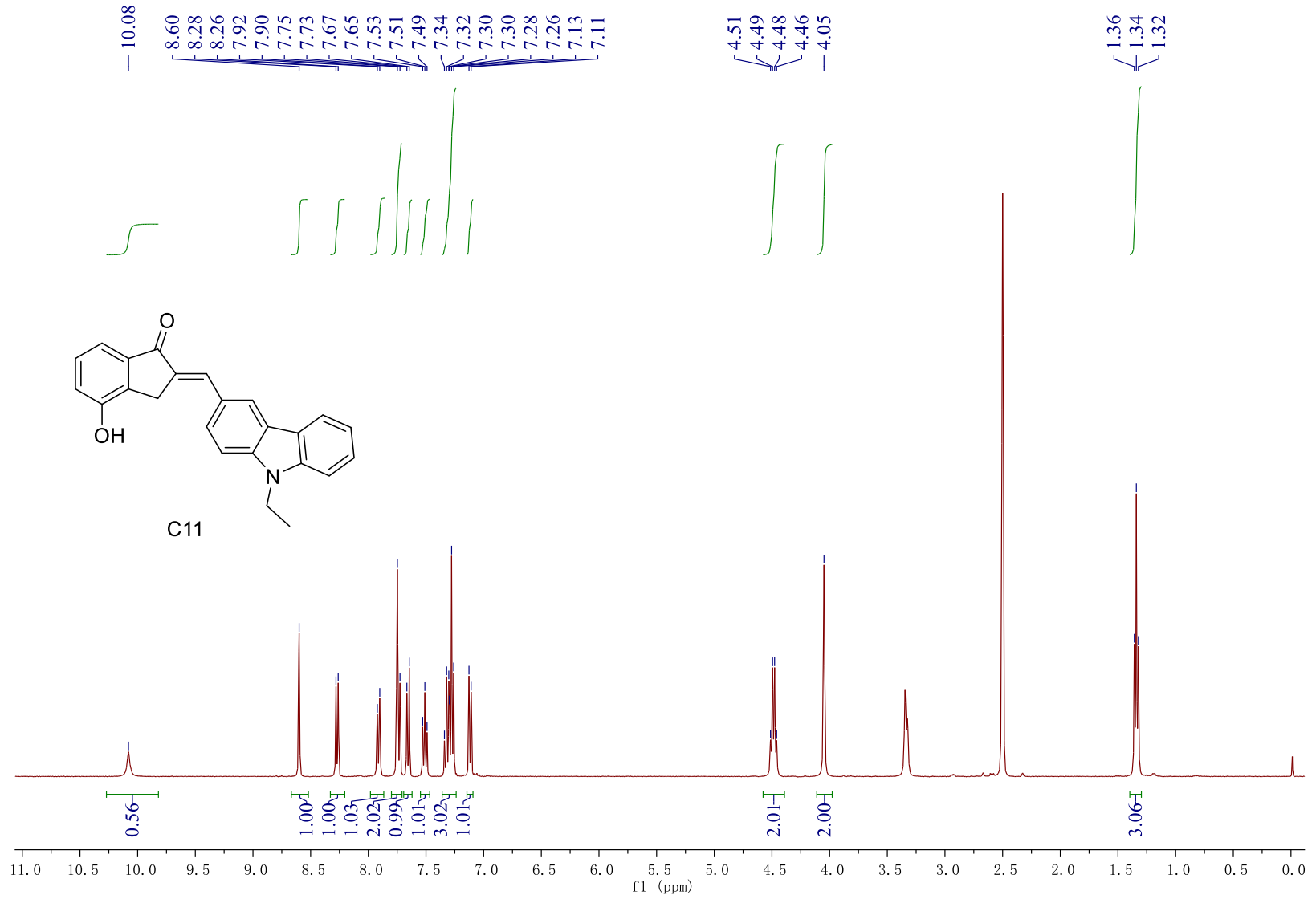
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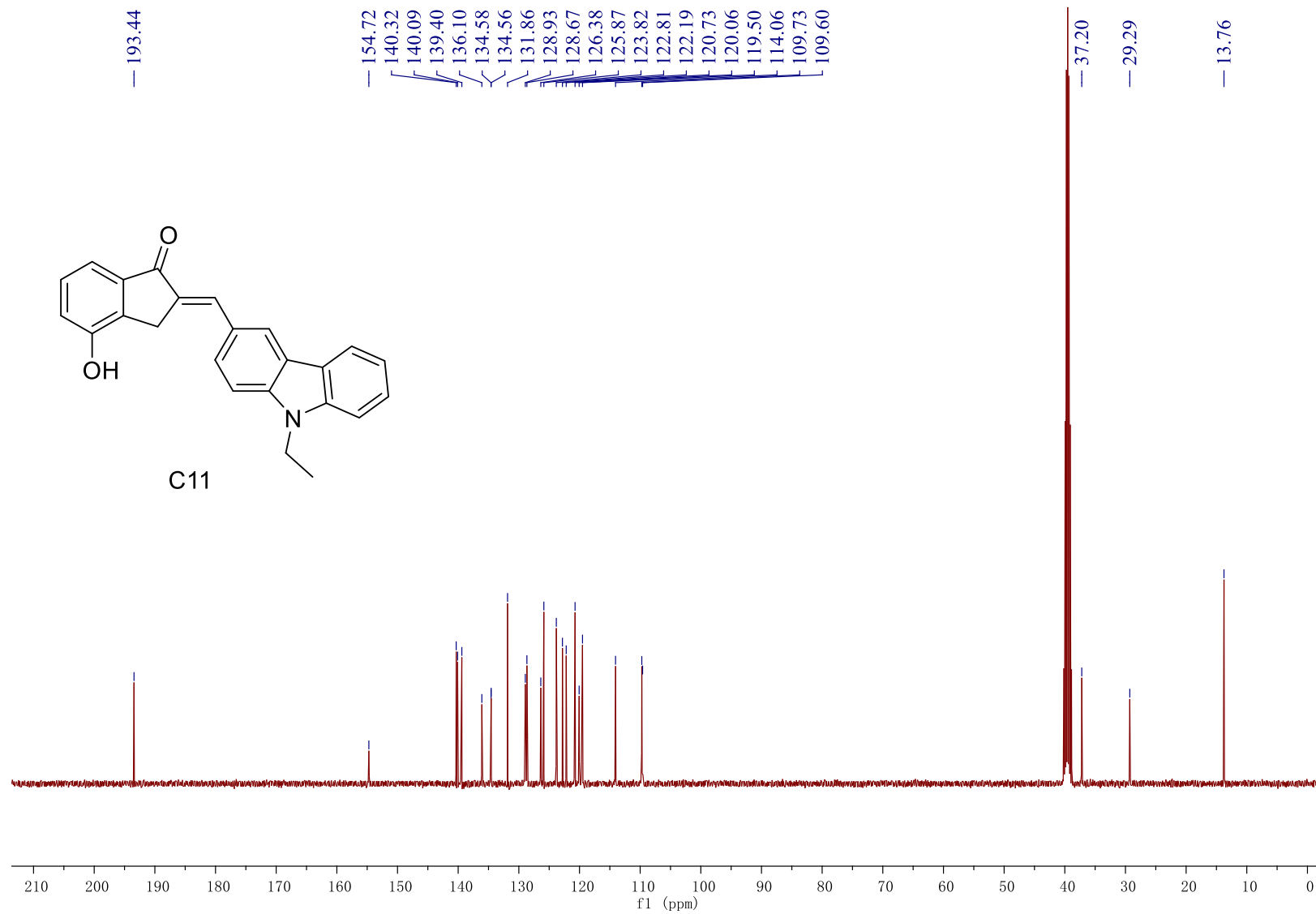
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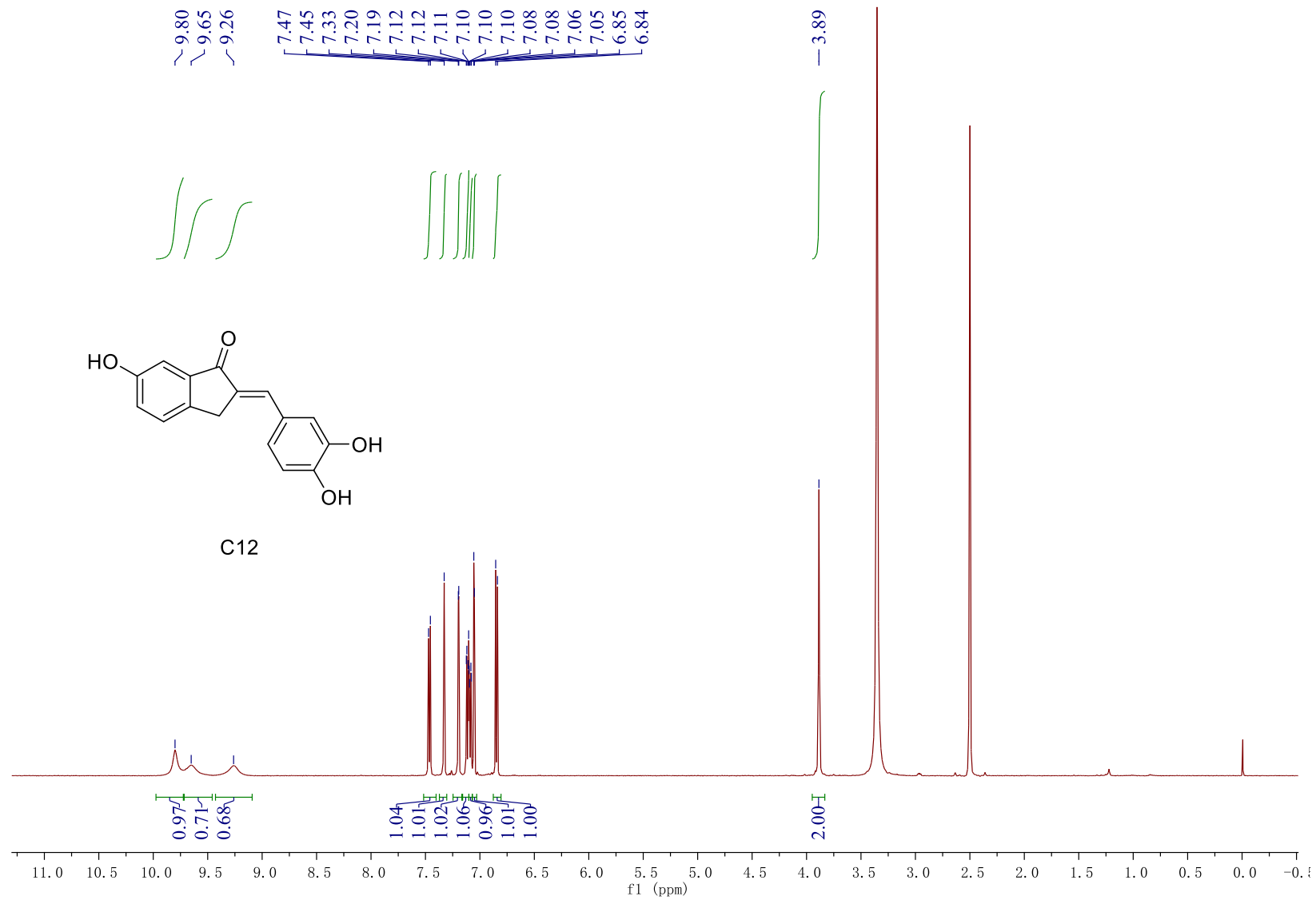
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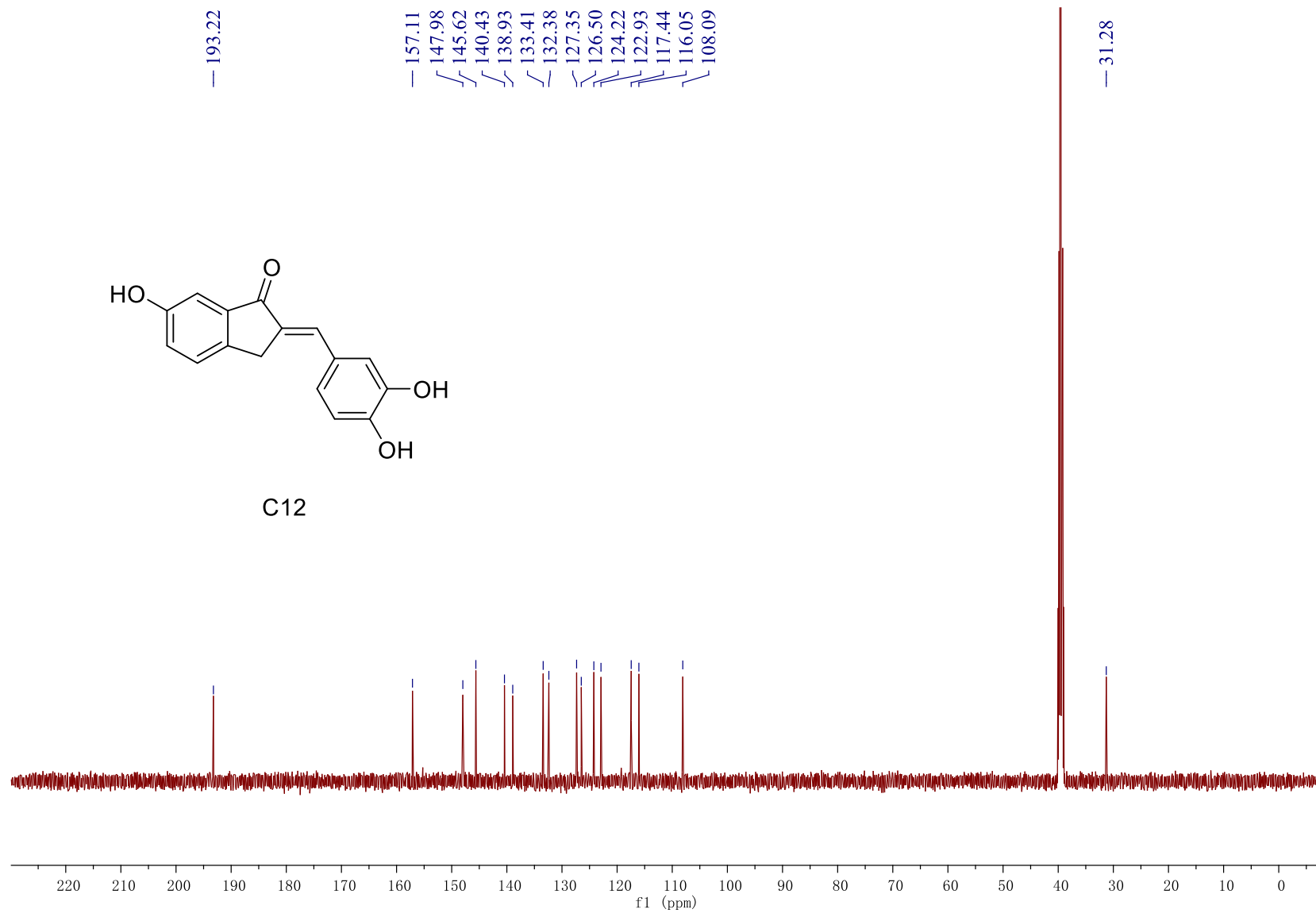
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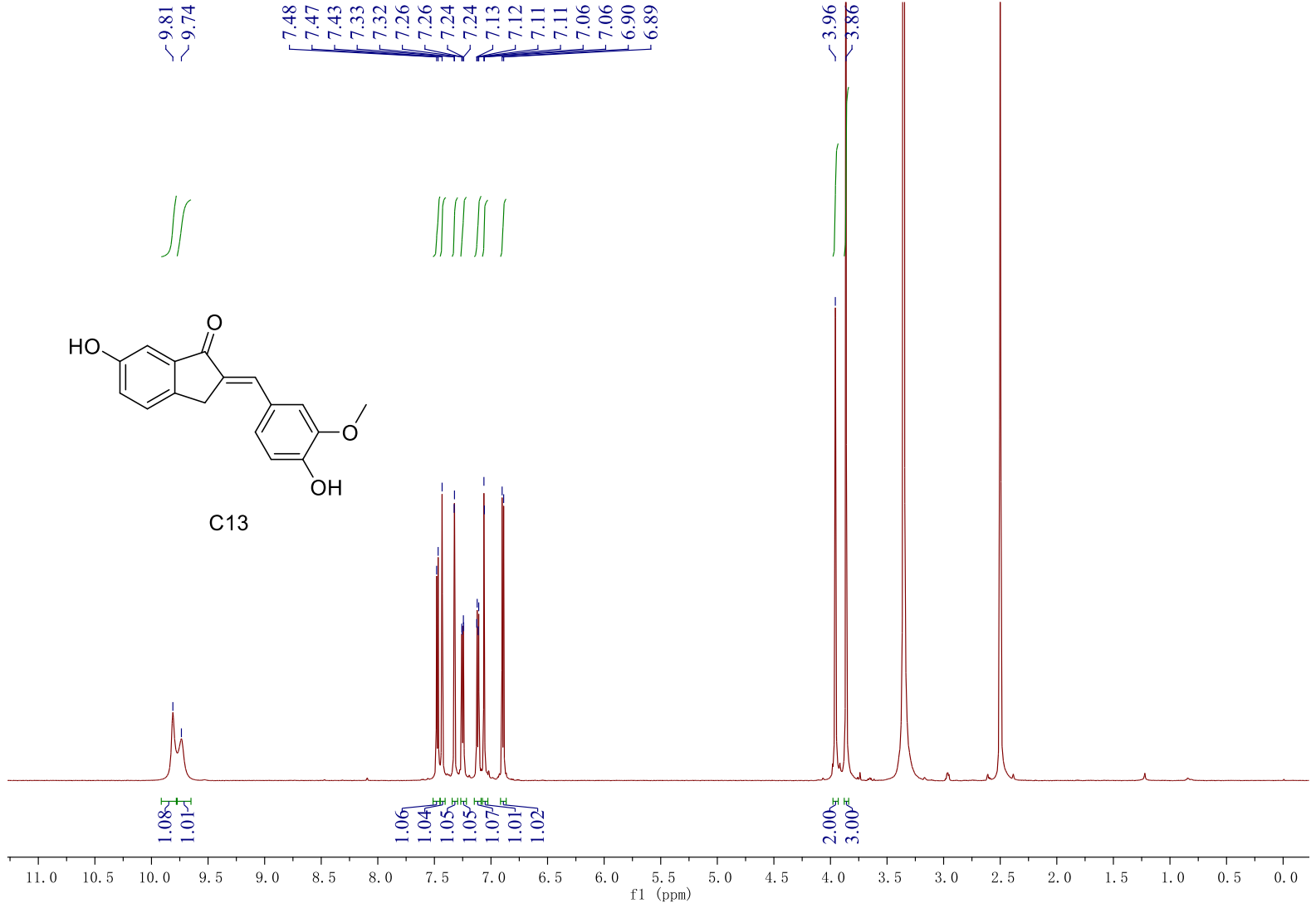
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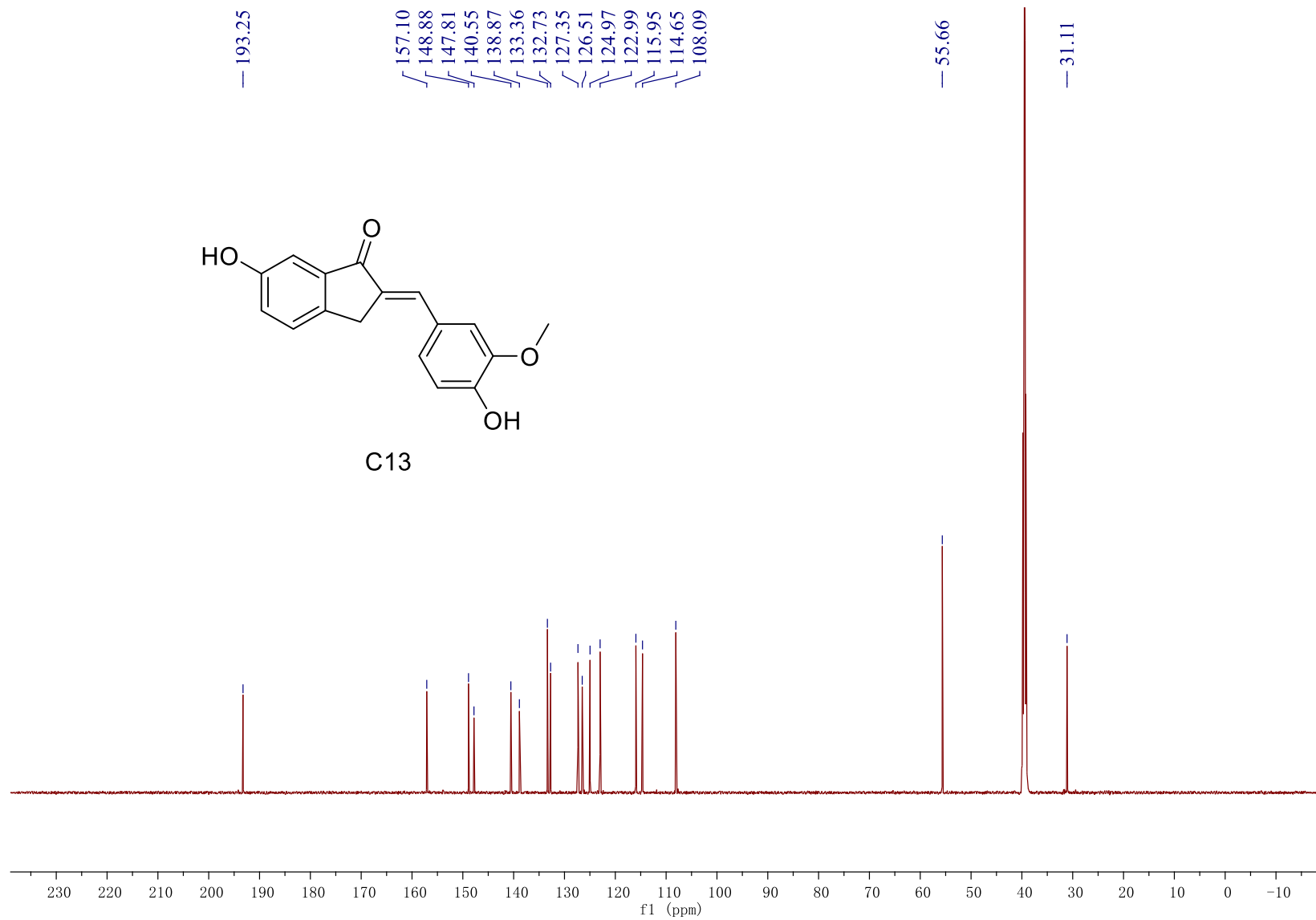
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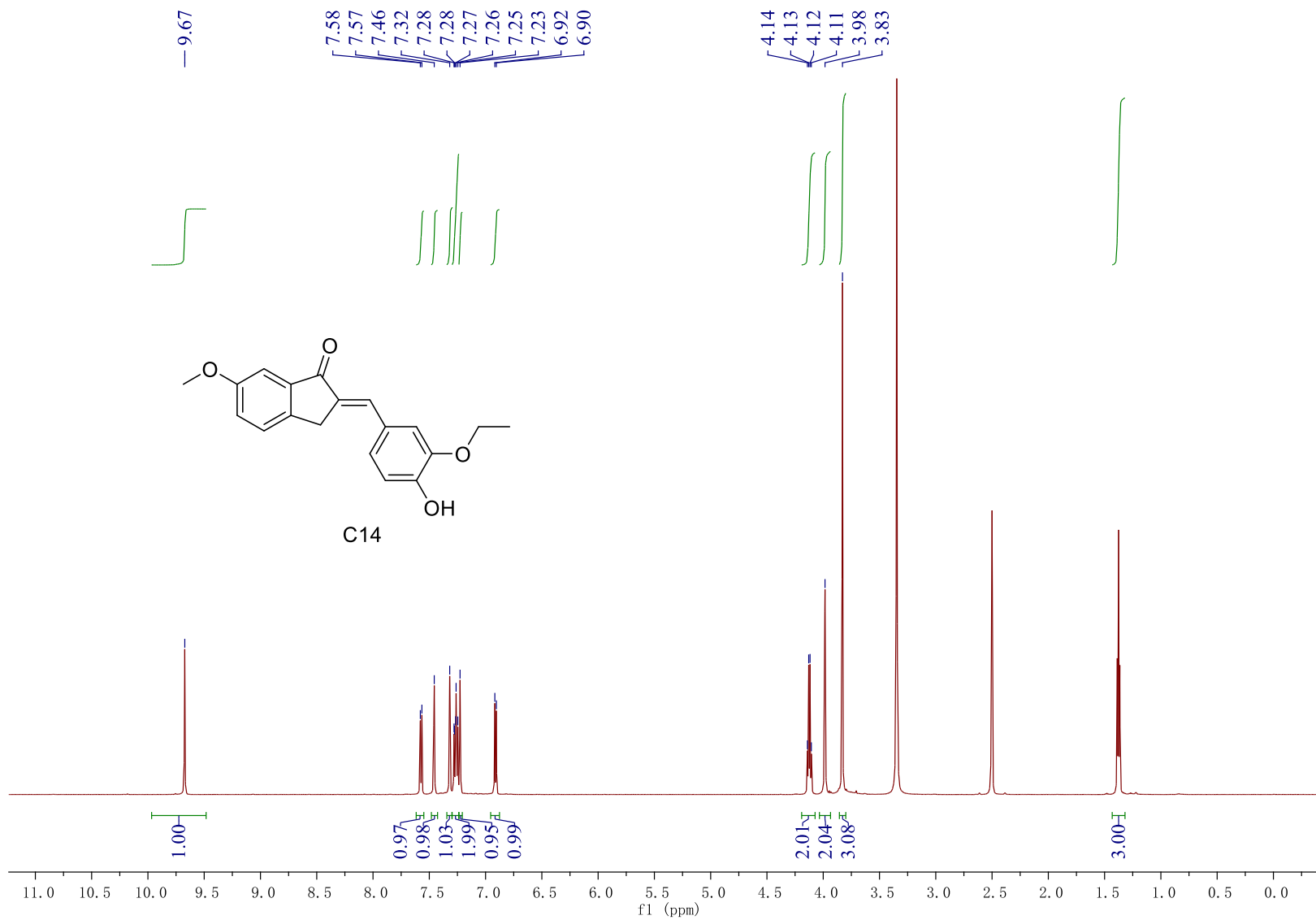
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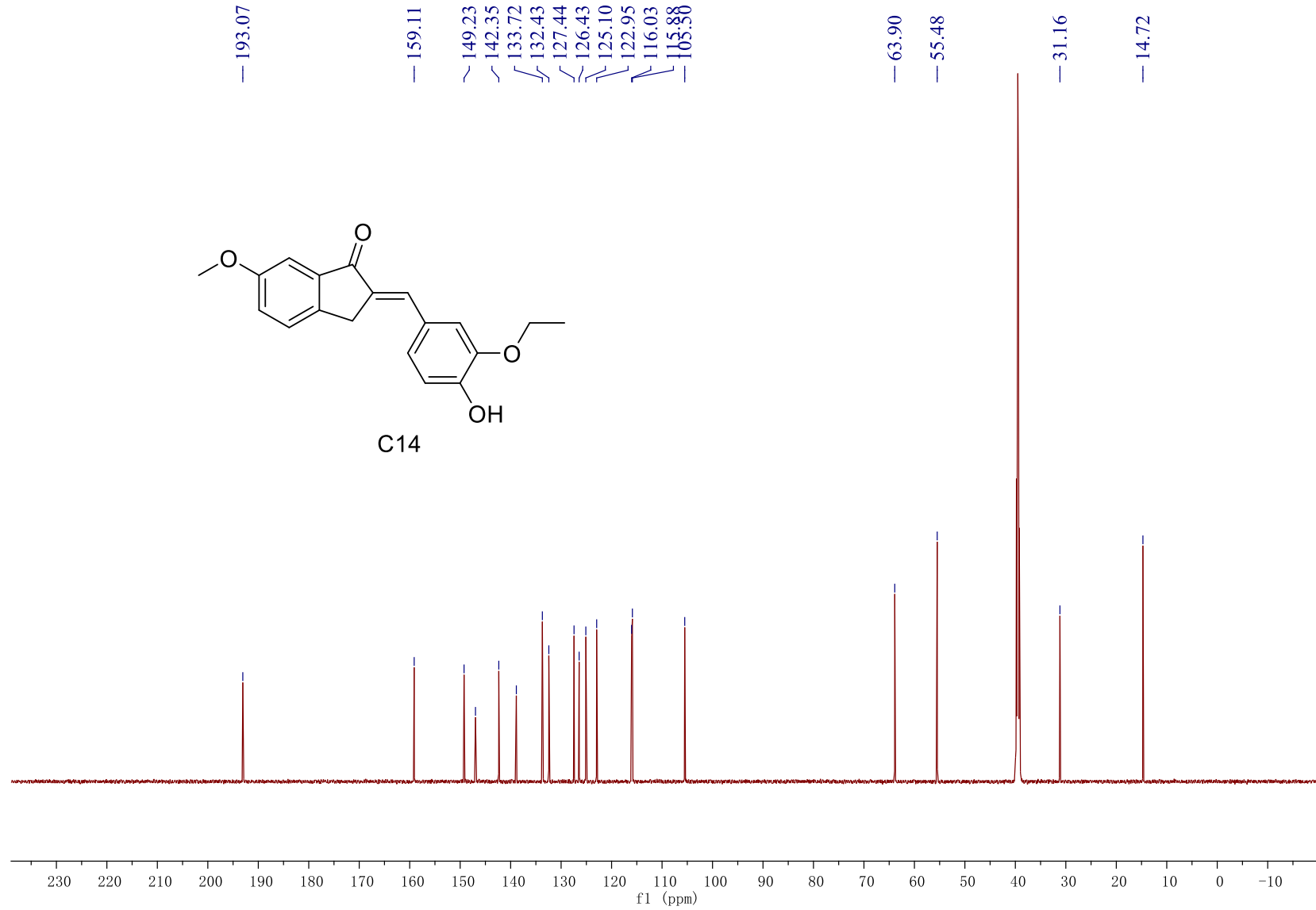
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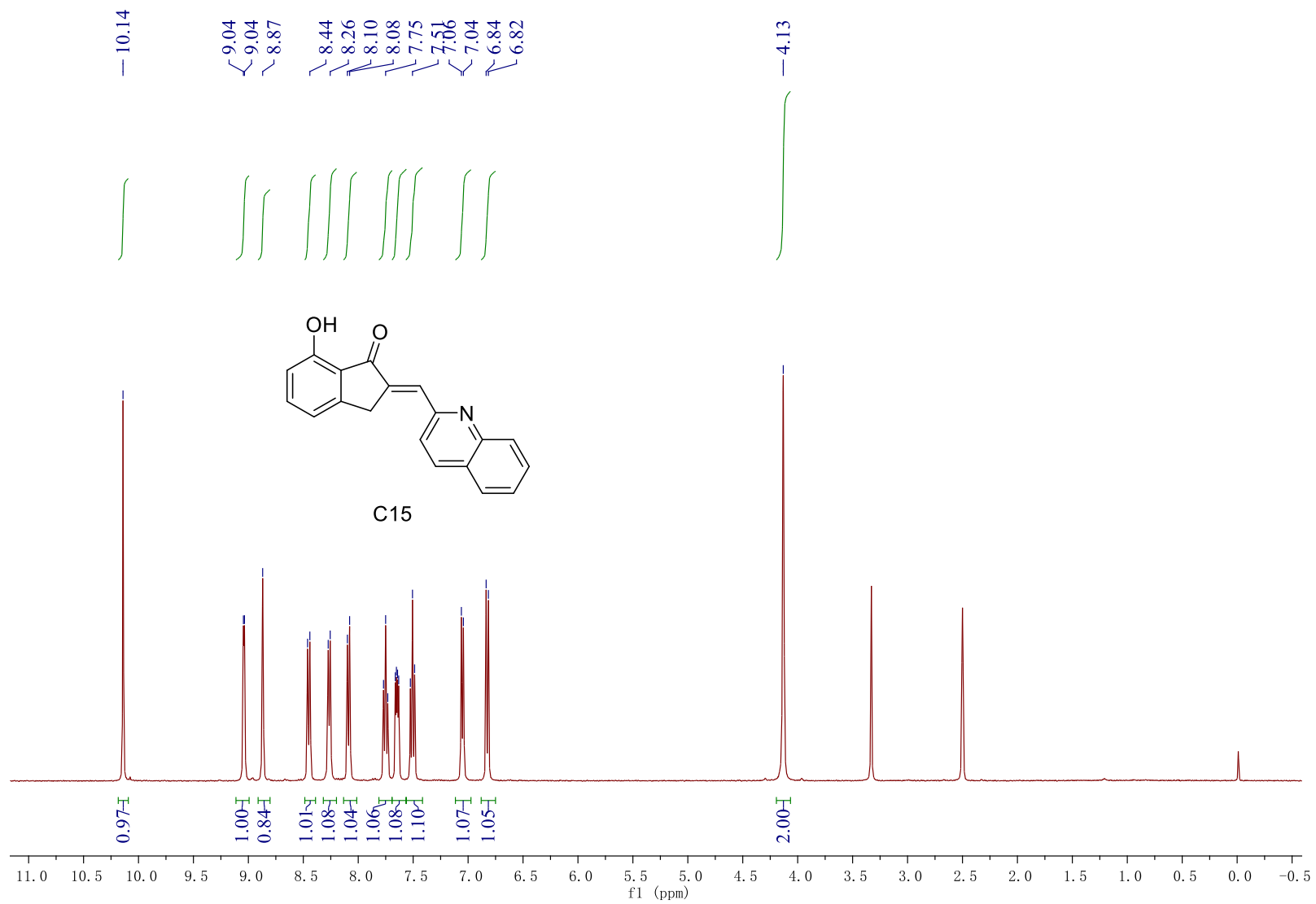
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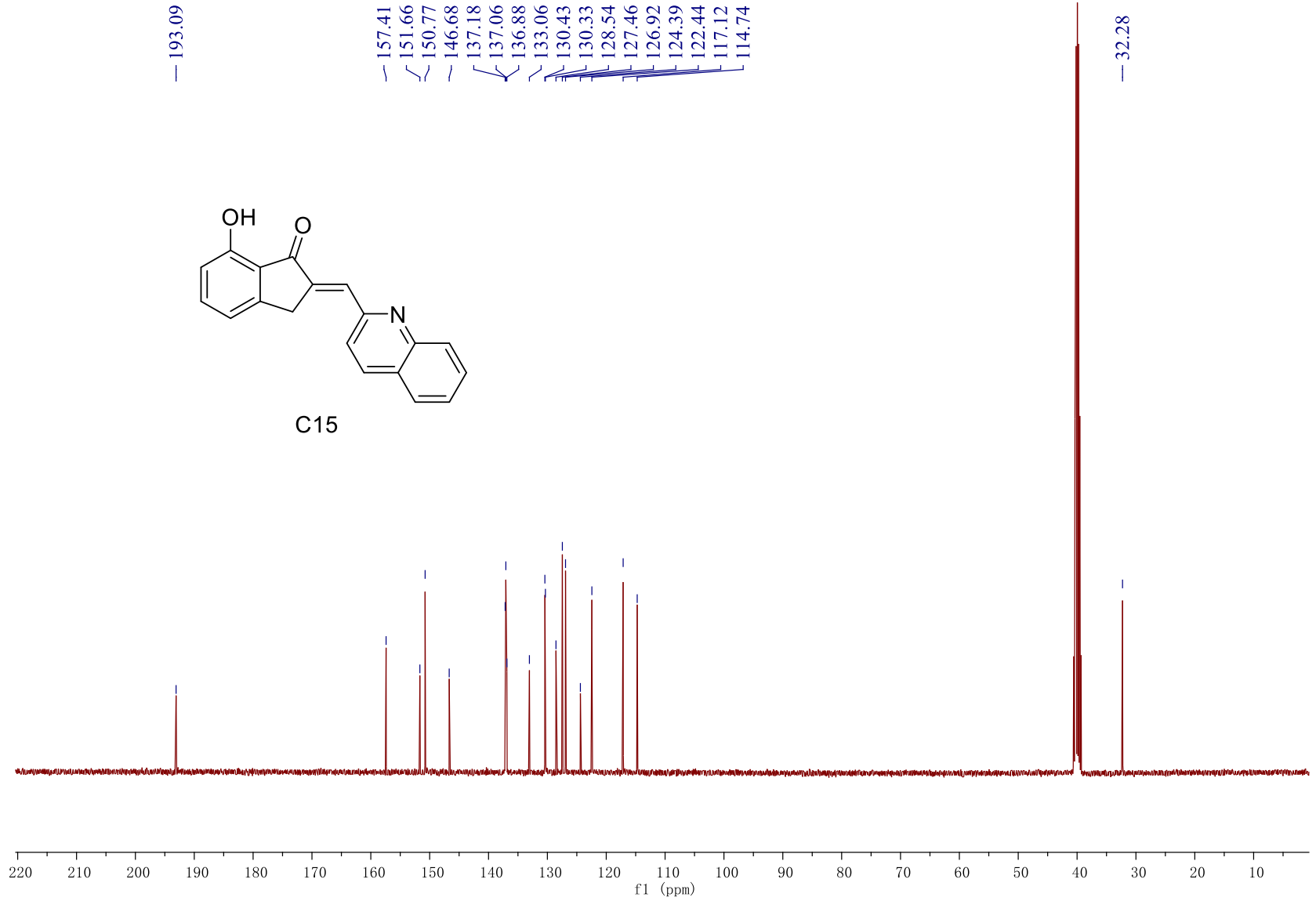
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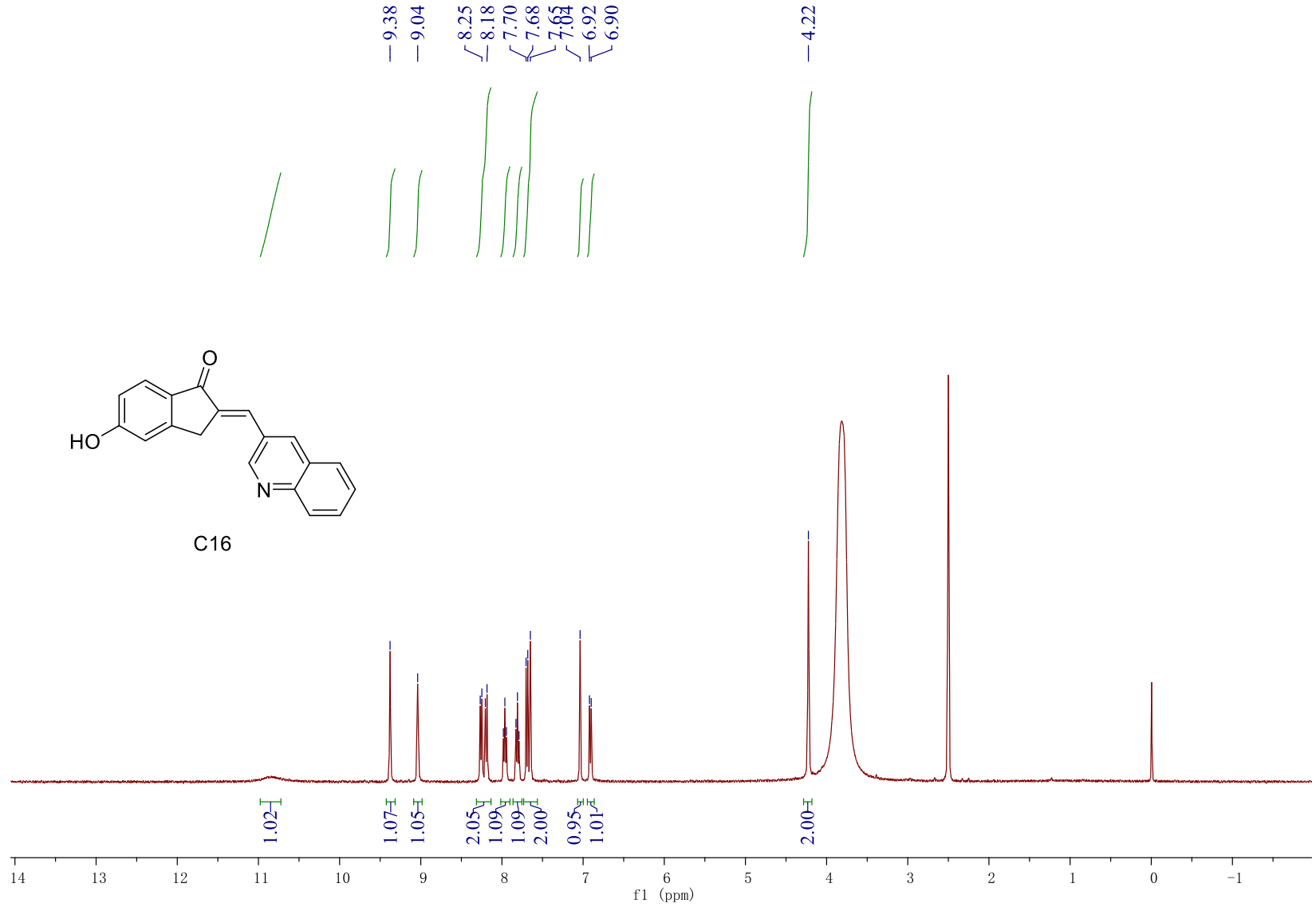
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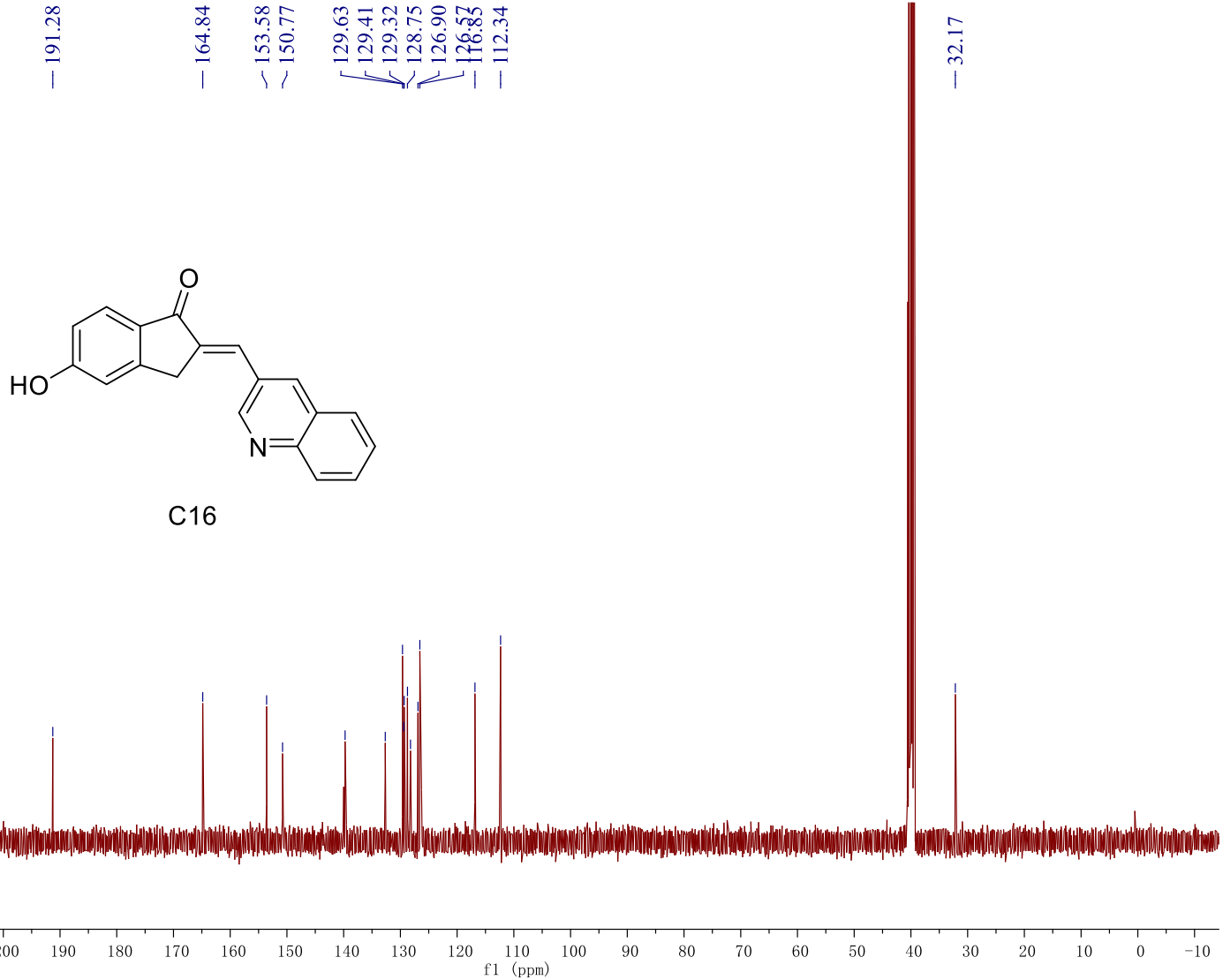
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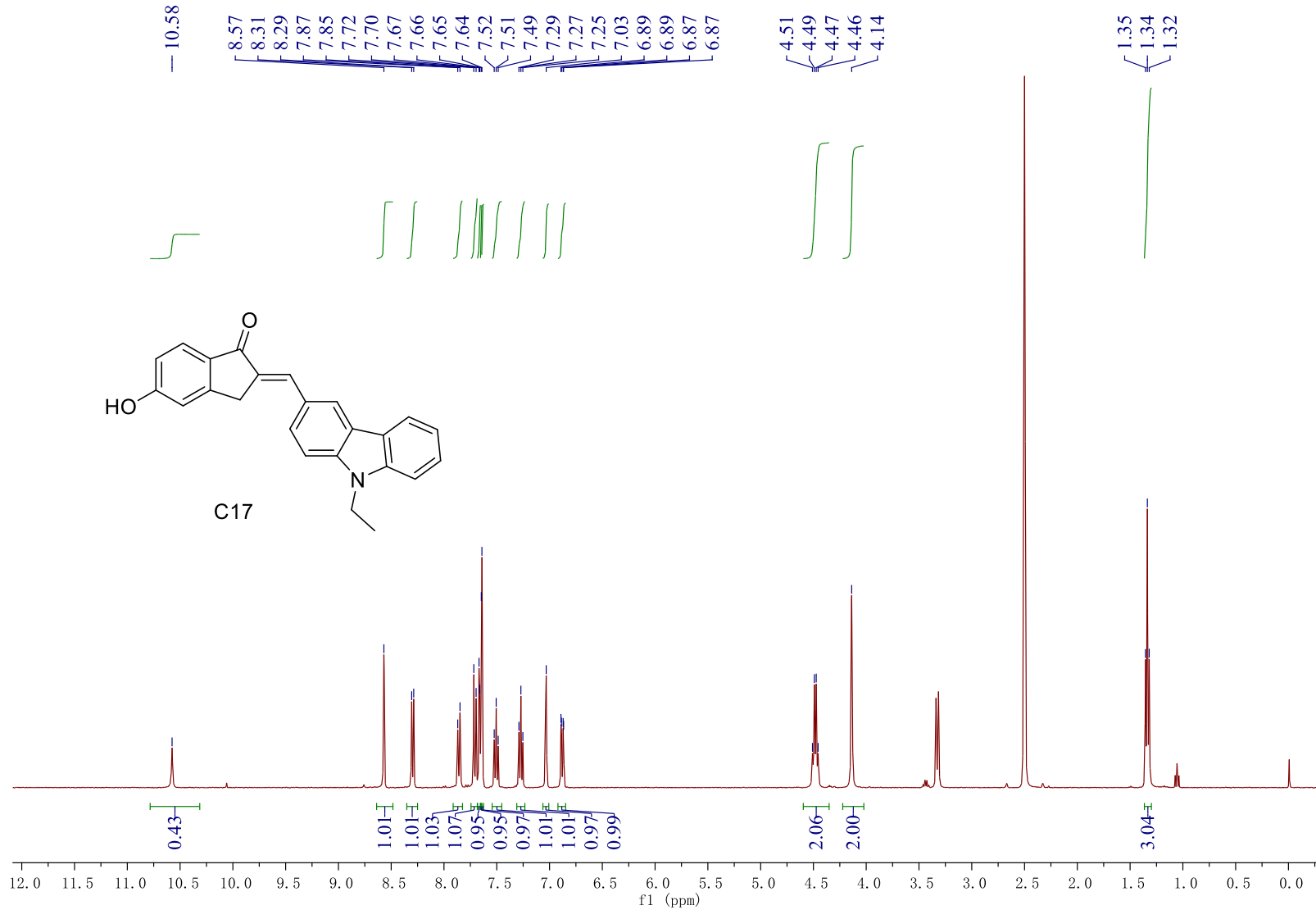
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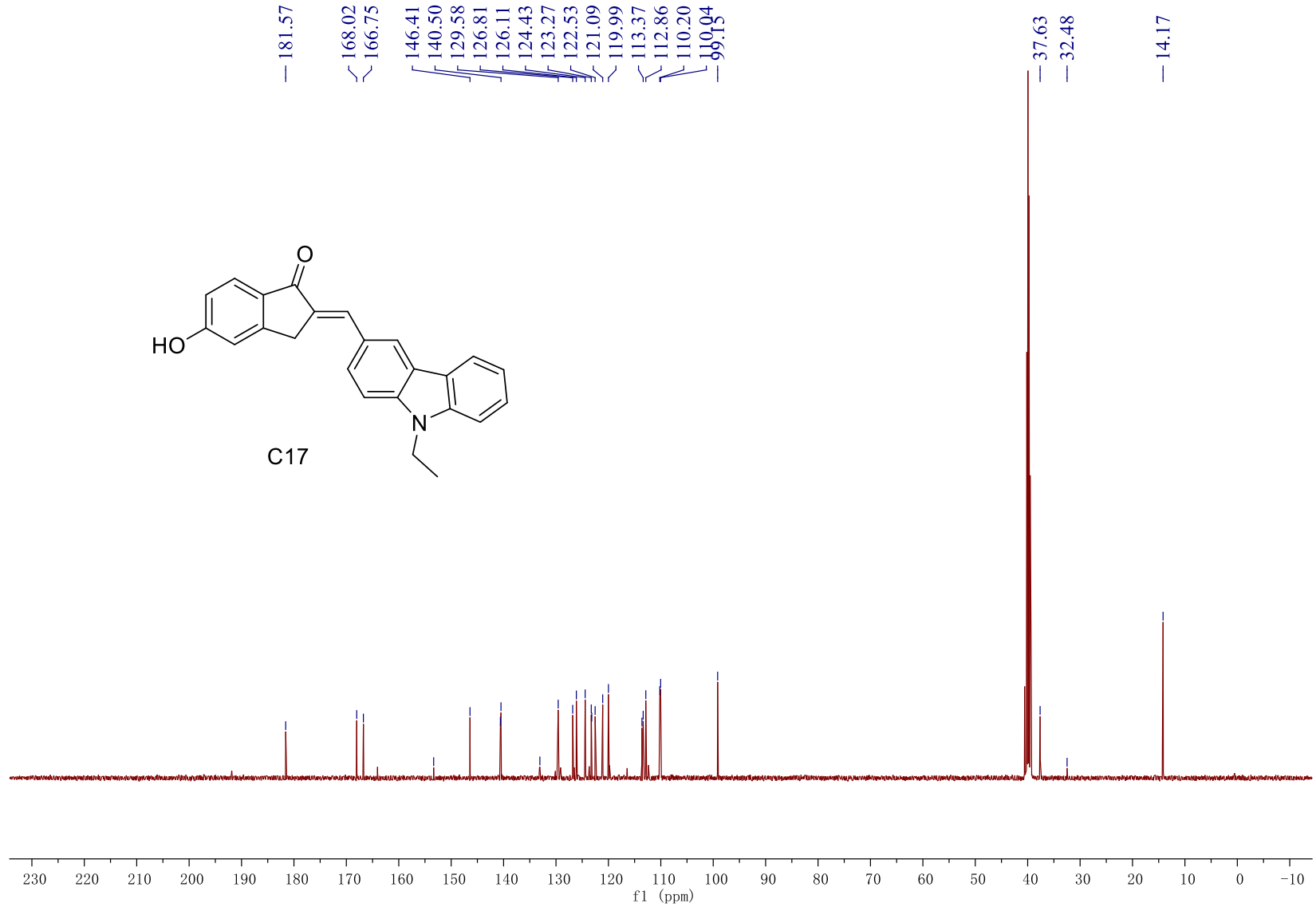
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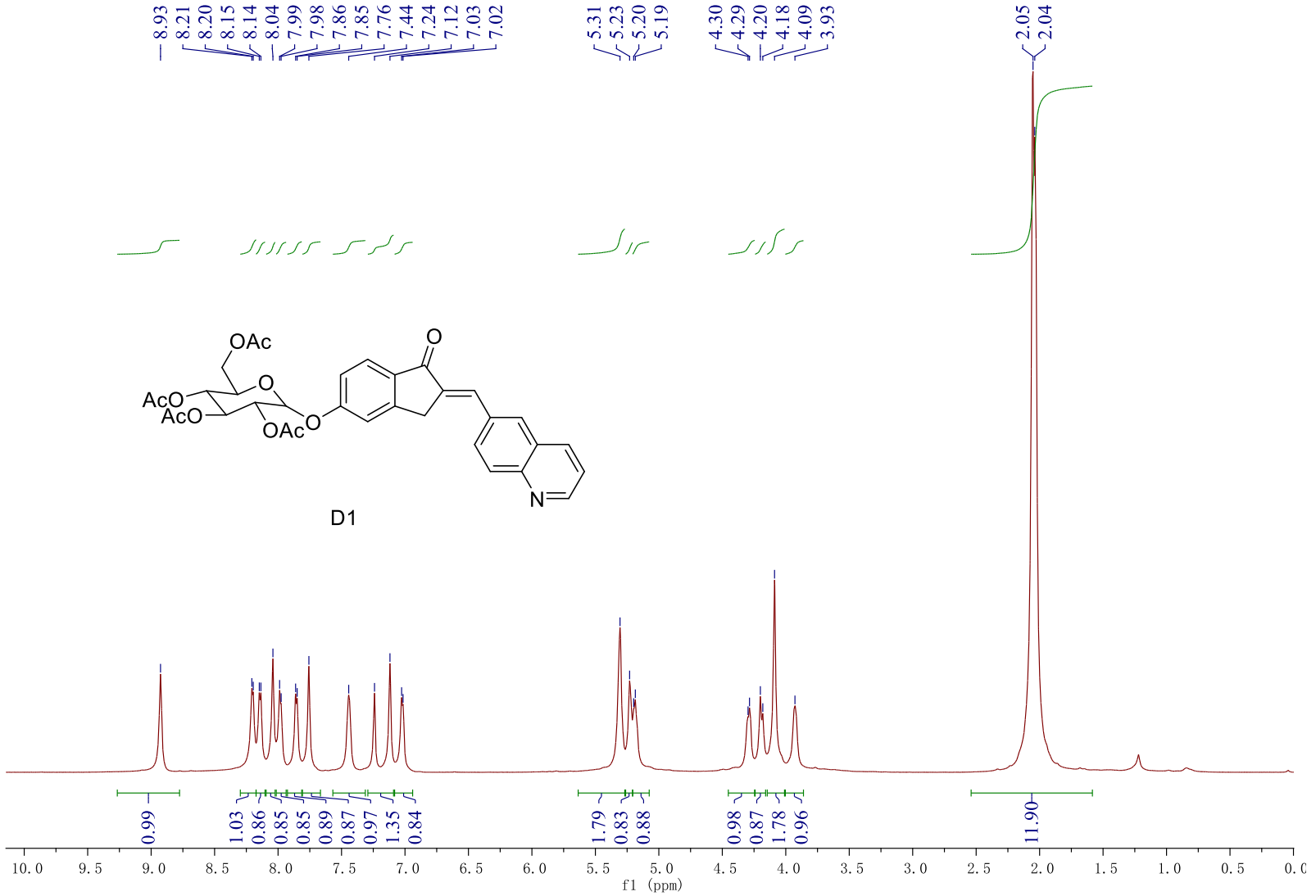
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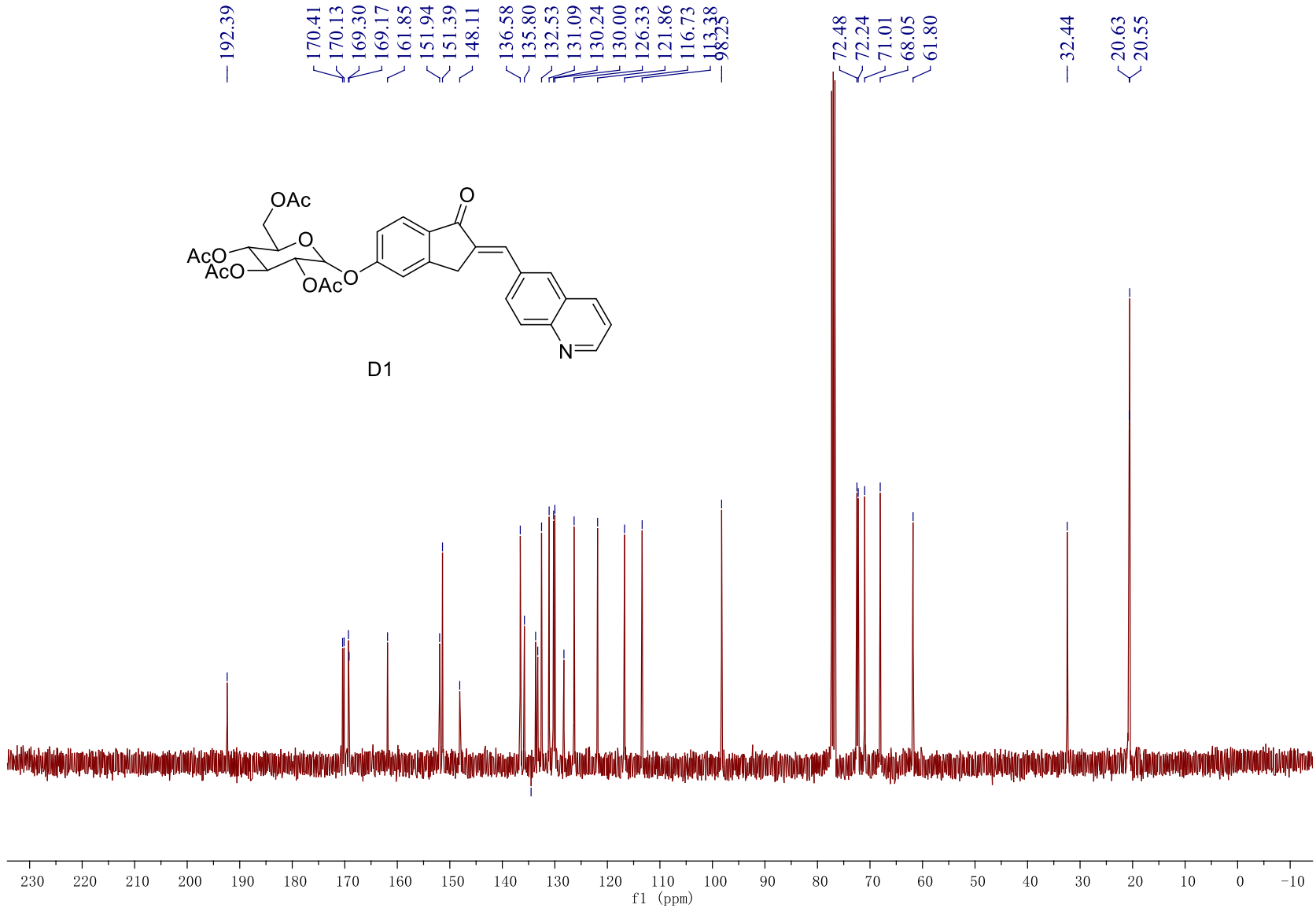
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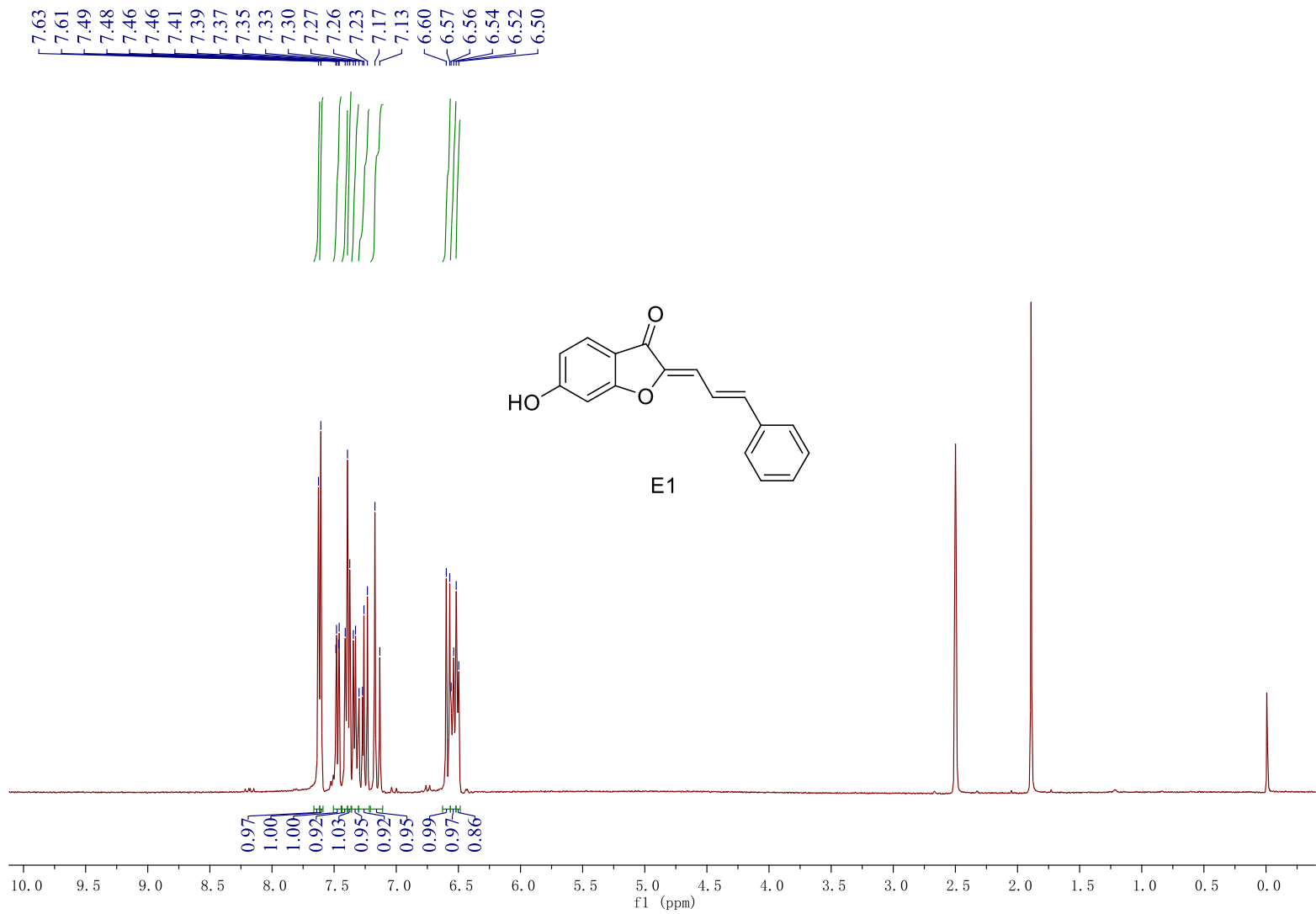
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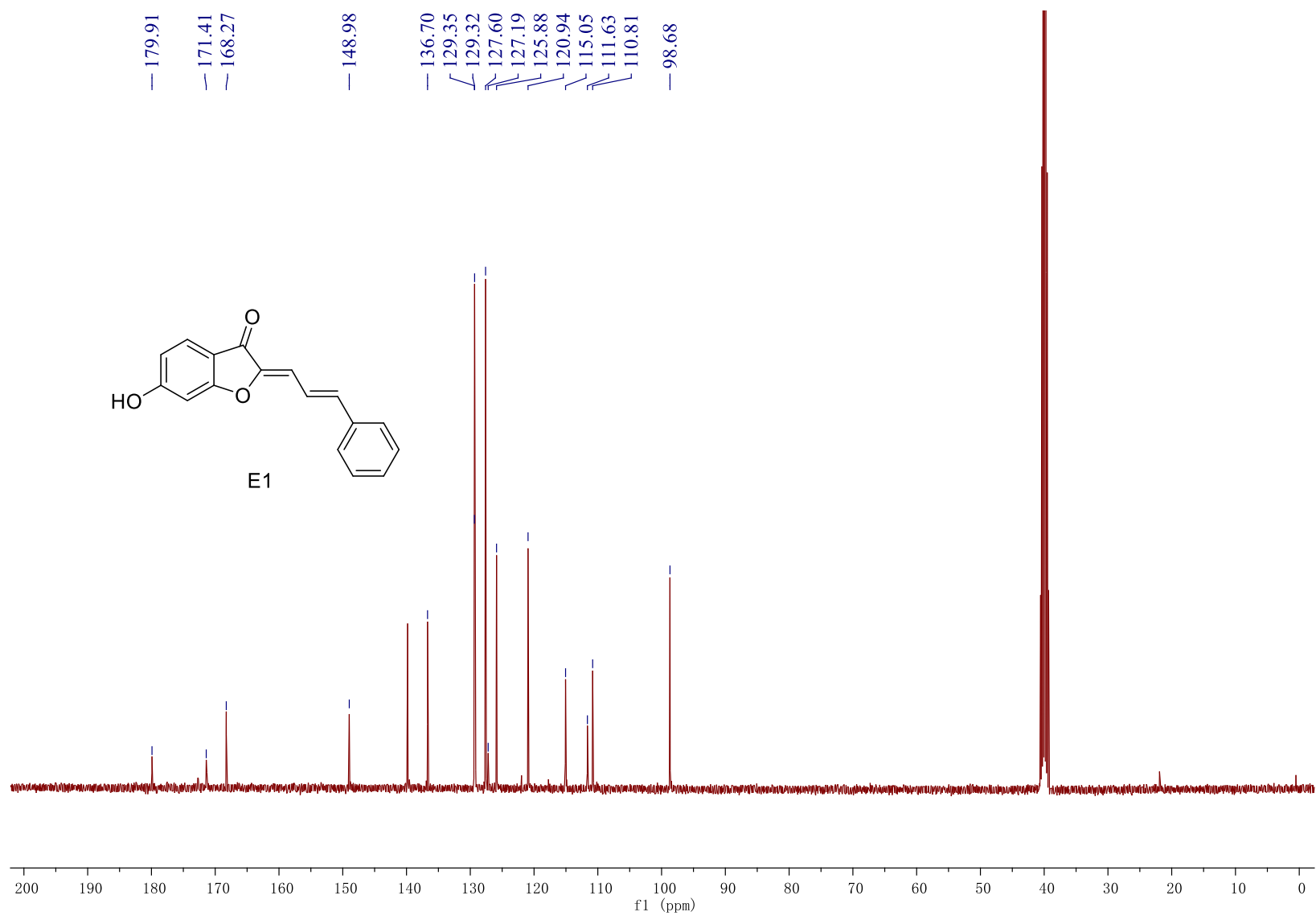
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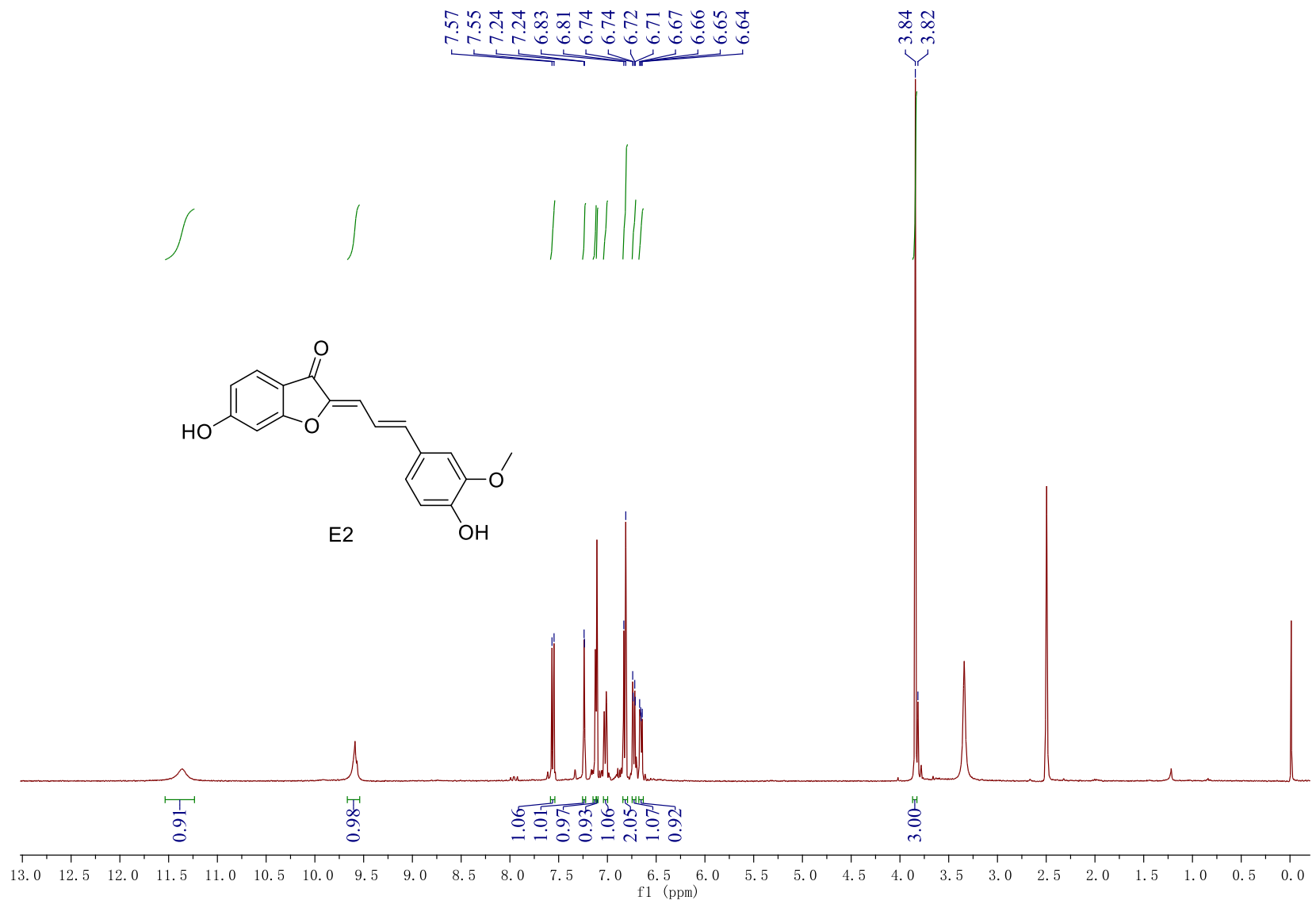
¹³CNMR of compound D1

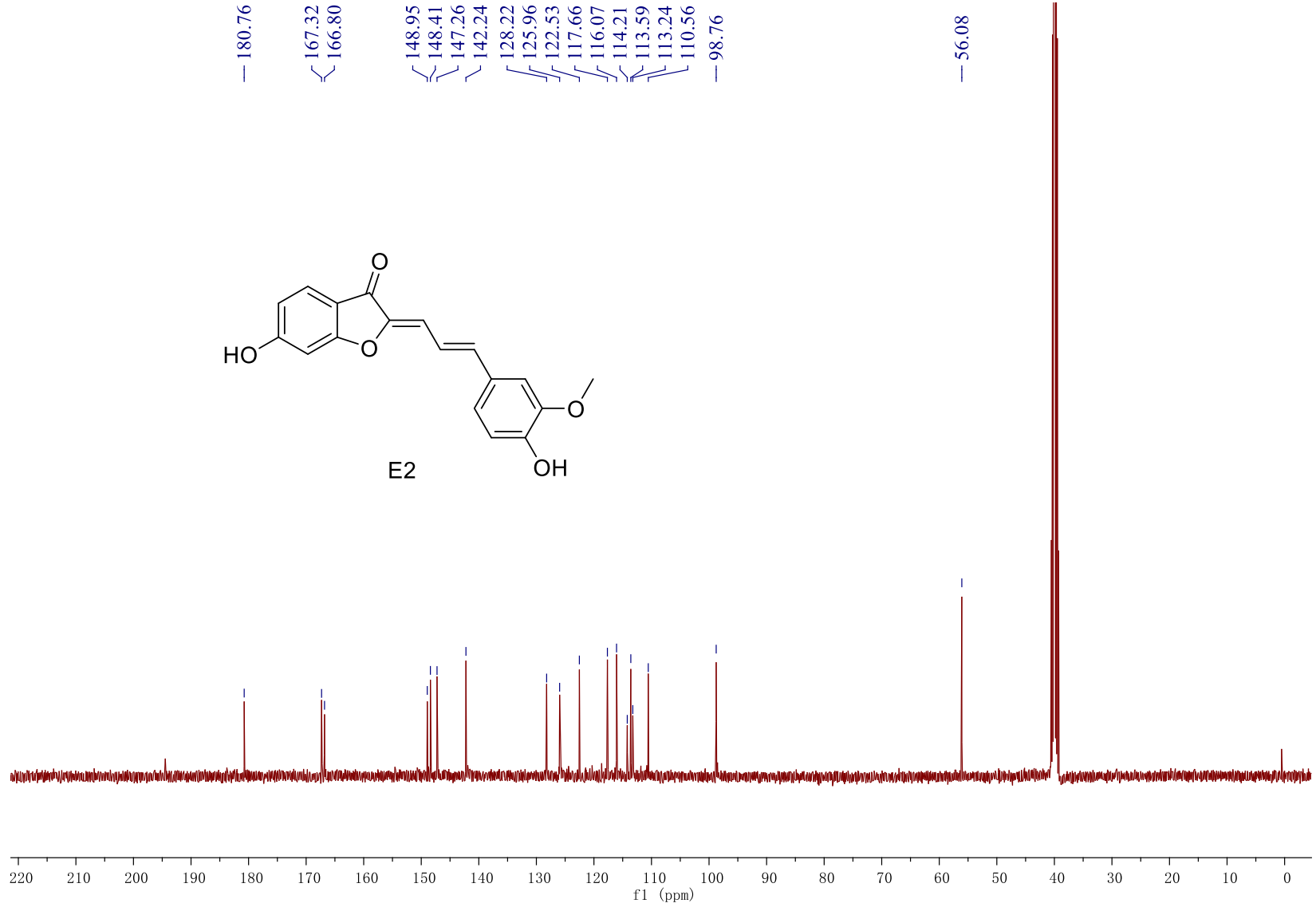


¹H NMR of compound E1

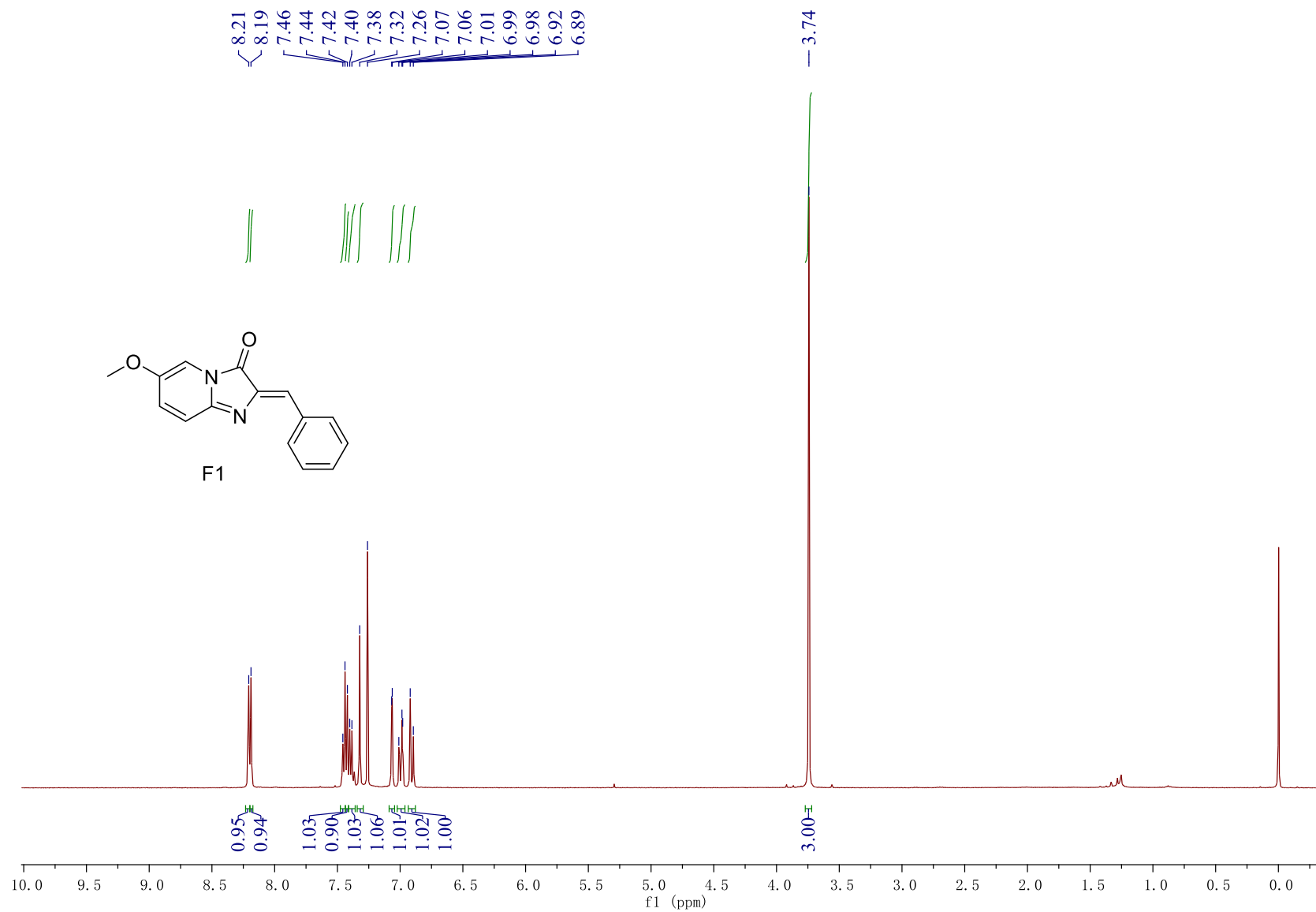


¹³CNMR of compound E1

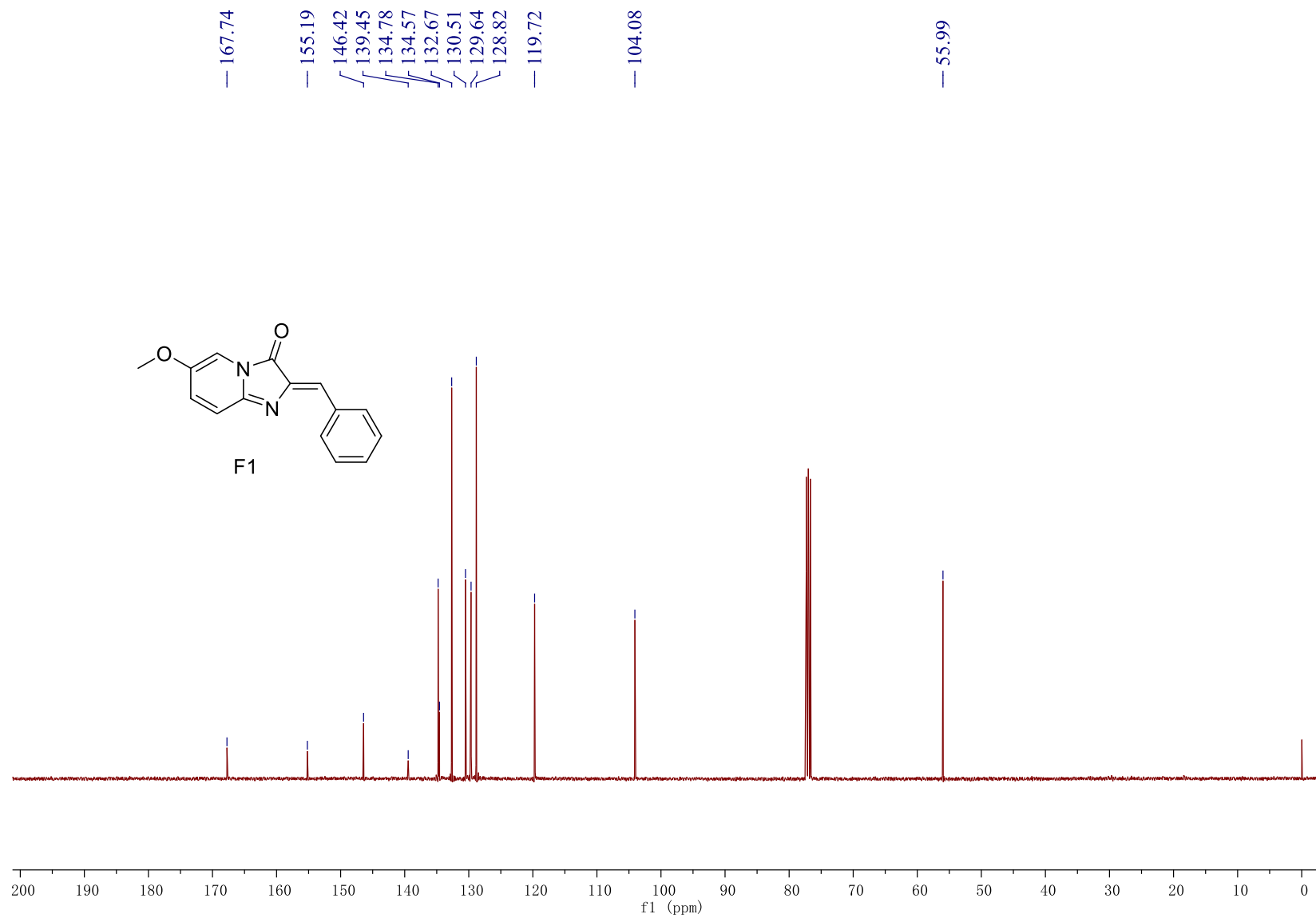




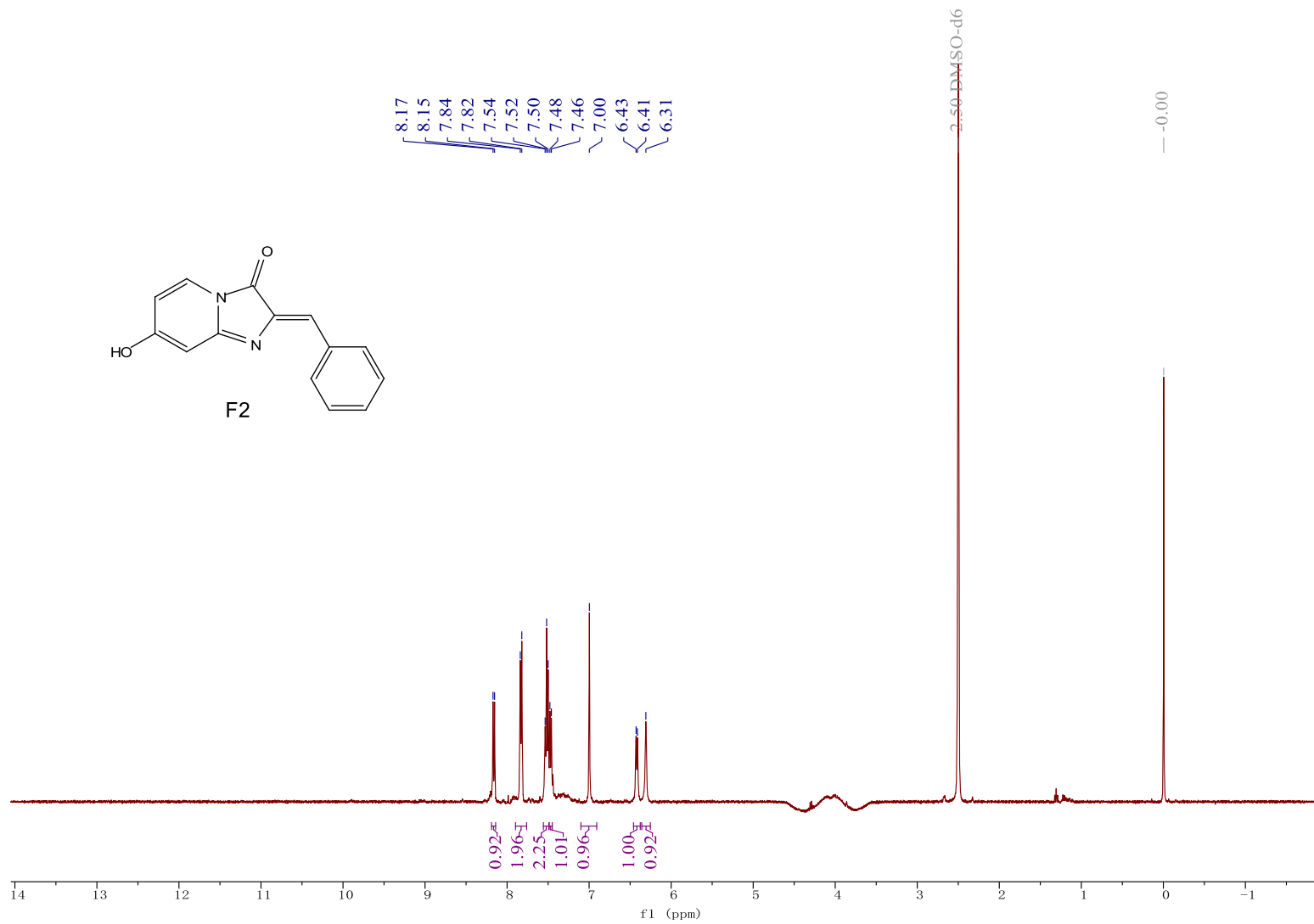
¹³CNMR of compound E2



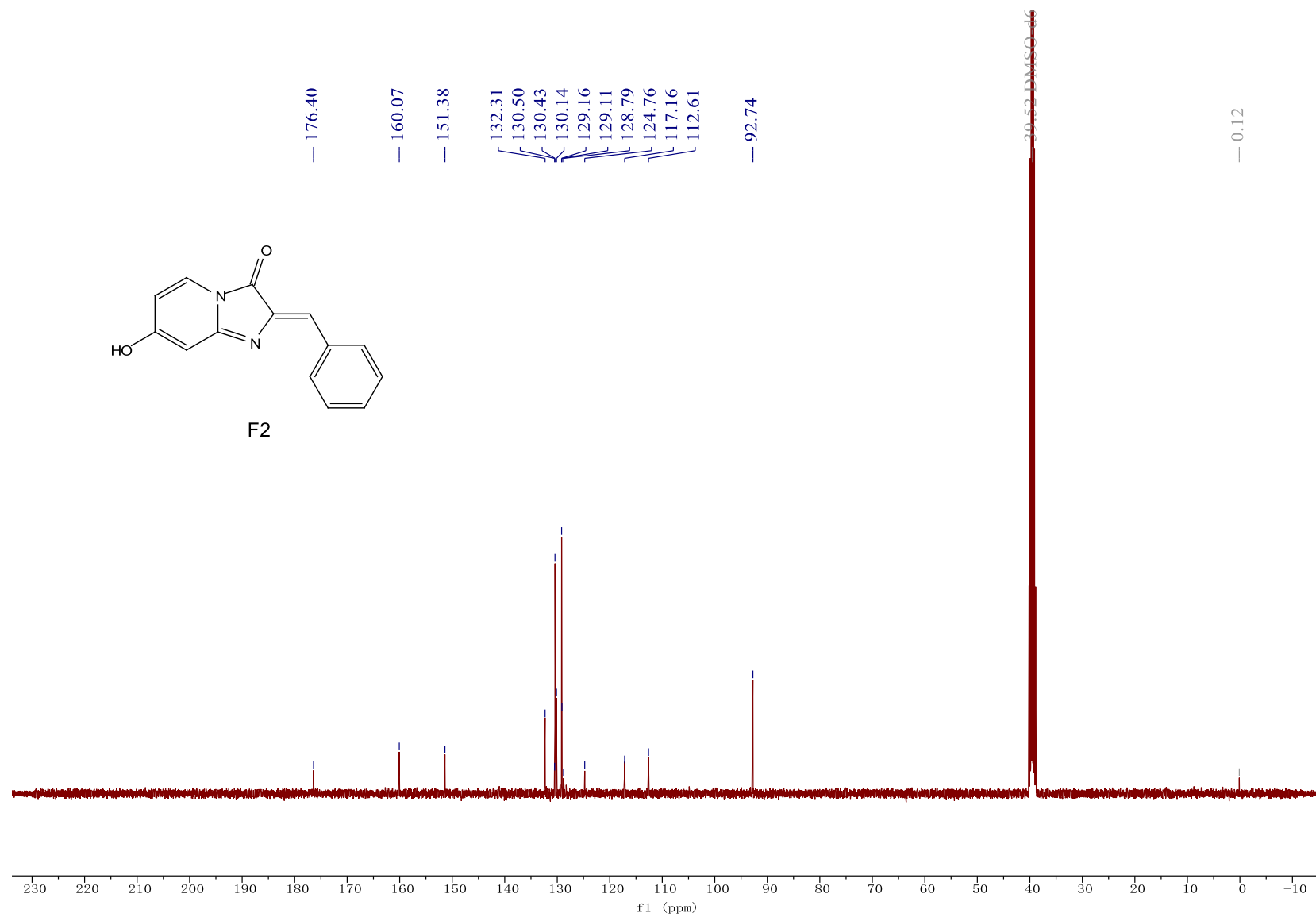
¹H NMR of compound F1



¹³CNMR of compound F1



¹H NMR of compound F2



¹³CNMR of compound F2