

Supplemental Materials

Synthesis, Crystal Structure and Antifungal Activity of Novel Fluorinated Quinoline Derivatives

Xin-Peng Sun^{1,3}, Wei Yu^{1,3}, Li-Jing Min², Liang Han³, Xue-Wen Hua⁴, Jian-Jun Shi⁵, Na-Bo Sun^{1*},
Xing-Hai Liu^{3*}

¹ College of Biology and Environmental Engineering, Zhejiang Shuren University, Hangzhou 310015, Zhejiang, China

² College of Life Science, Key Laboratory of Vector Biology and Pathogen Control of Zhejiang Province, Huzhou University, Huzhou, 313000, Zhejiang, China

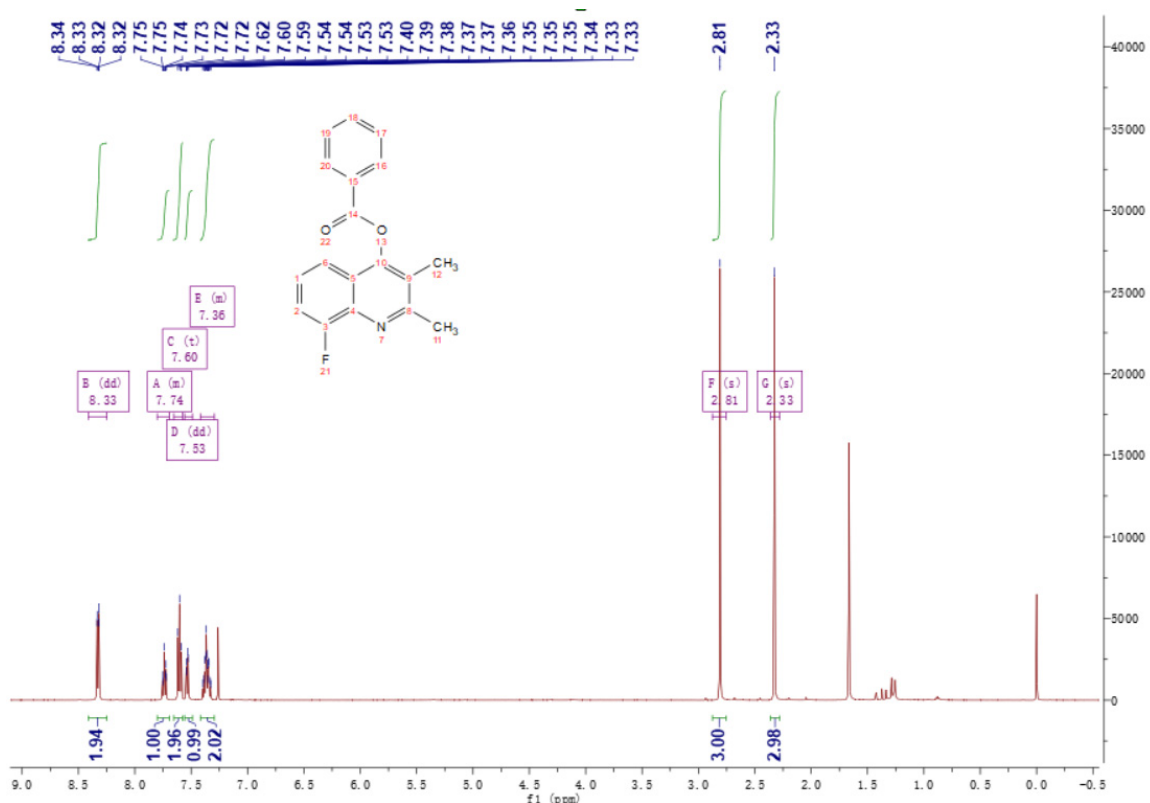
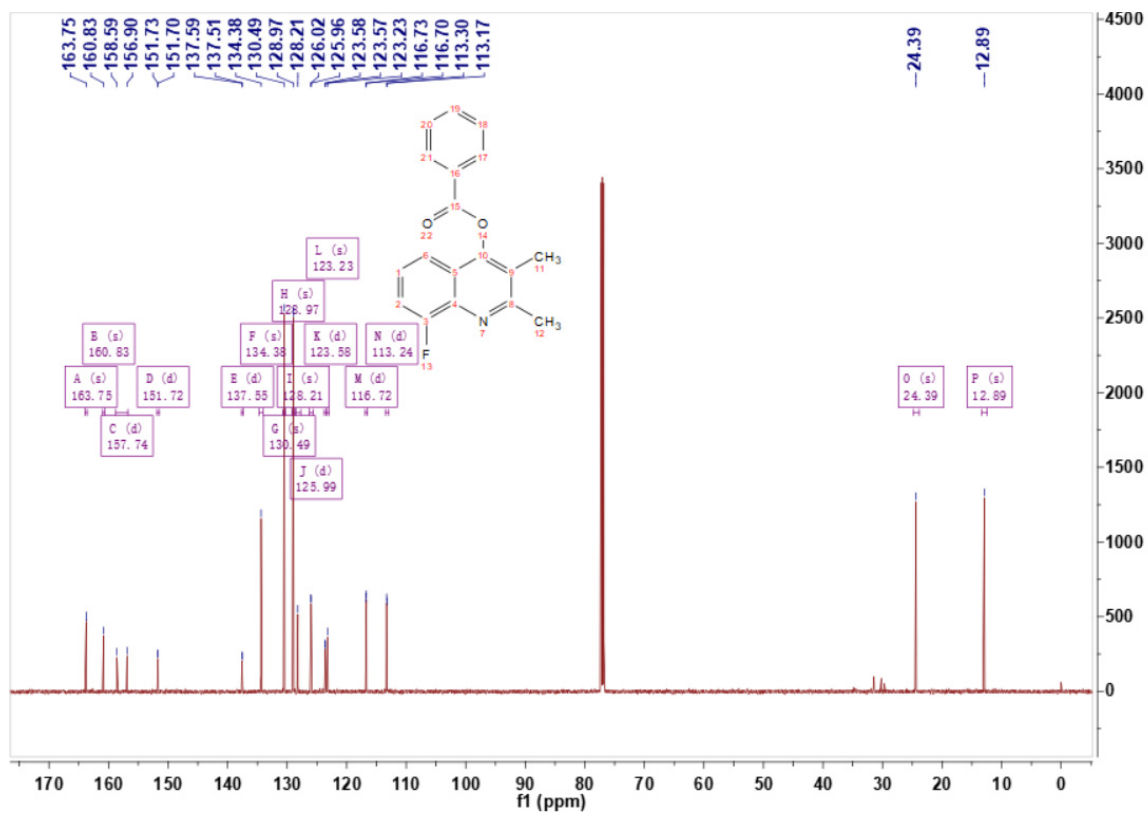
³ College of Chemical Engineering, Zhejiang University of Technology, Hangzhou, 310014, Zhejiang, China;

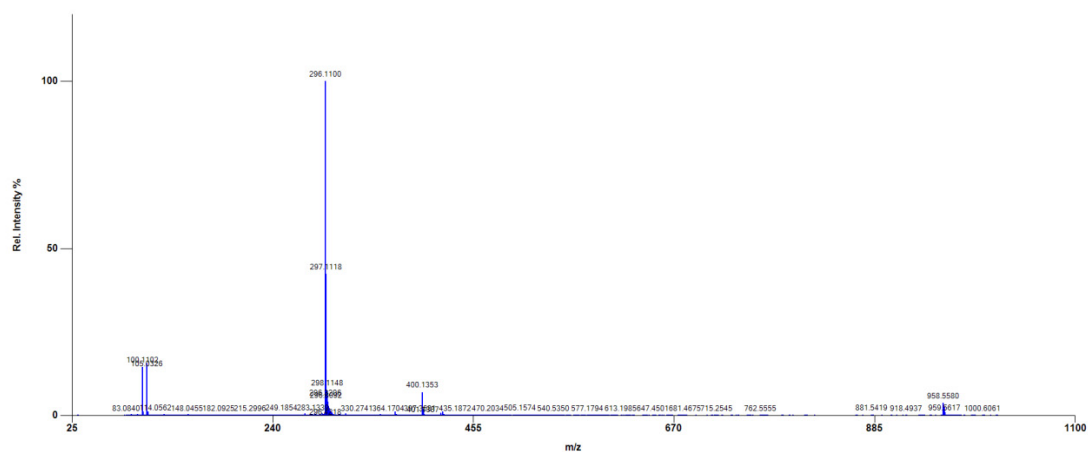
⁴ College of Agriculture, Liaocheng University, Liaocheng, Shandong 252000, China

⁵ College of Chemistry and Chemical Engineering, Huangshan University, Huangshan, 245041, China

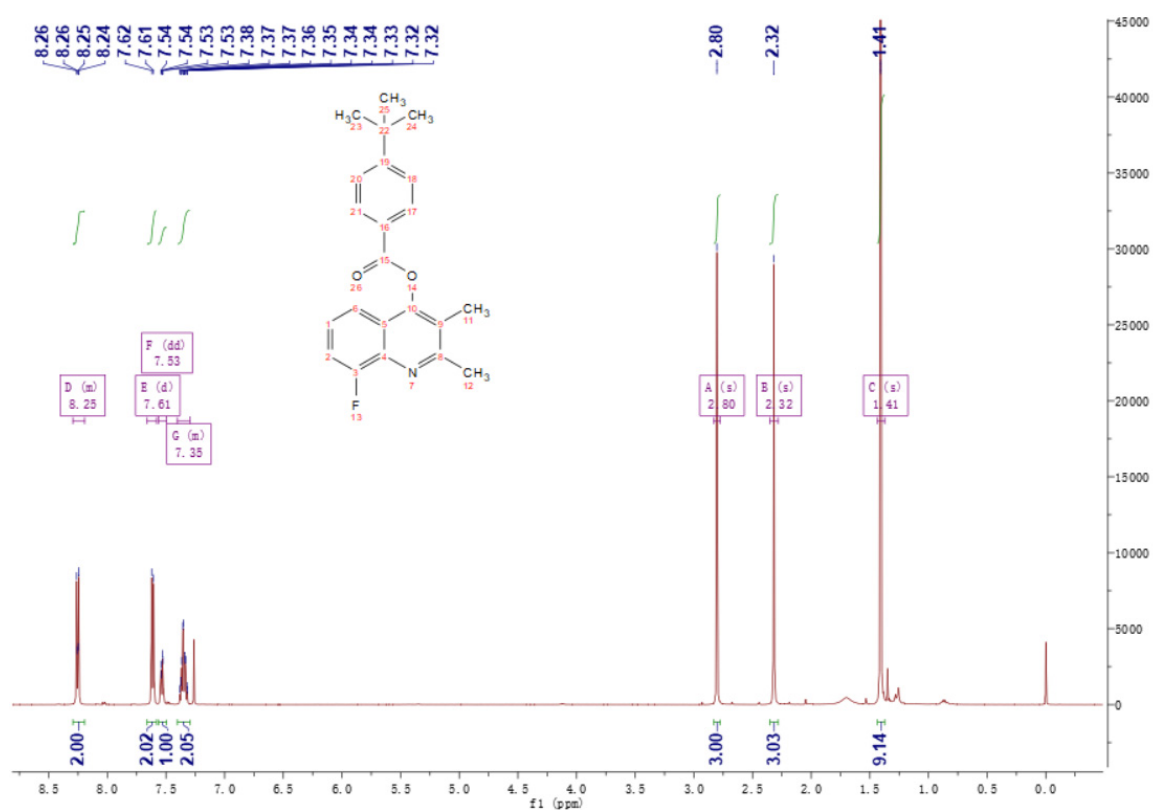
Figures of contents

1. The spectroscopy of target compounds.....	2-10
--	------

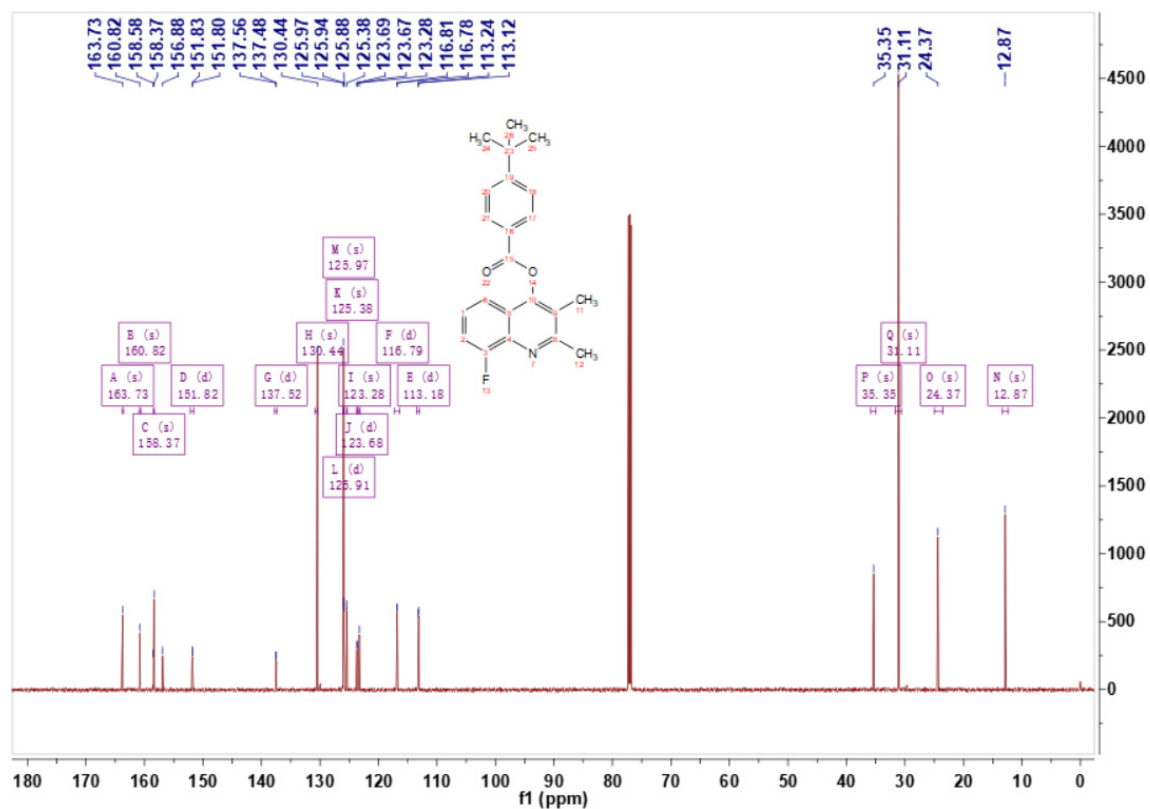
¹H NMR of compound 2a ^{13}C NMR of compound 2a



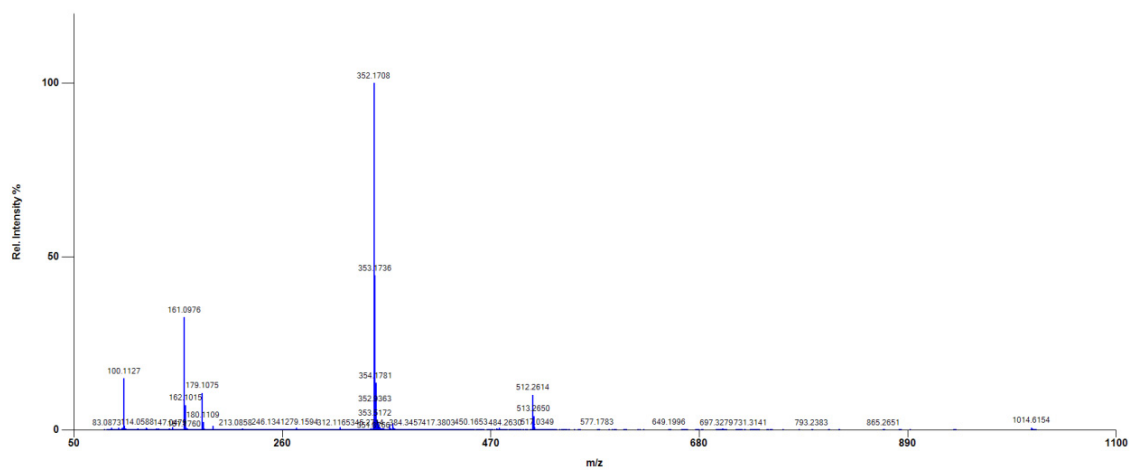
HRMS of compound 2a



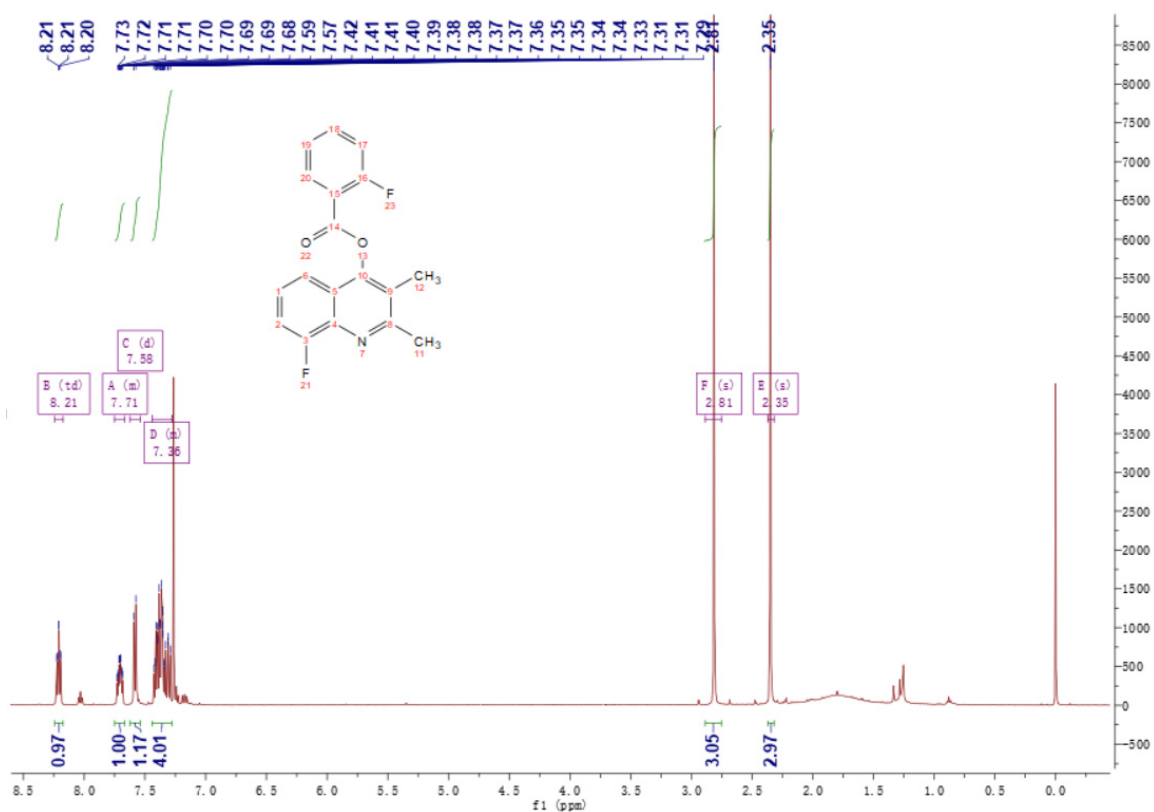
¹H NMR of compound 2b



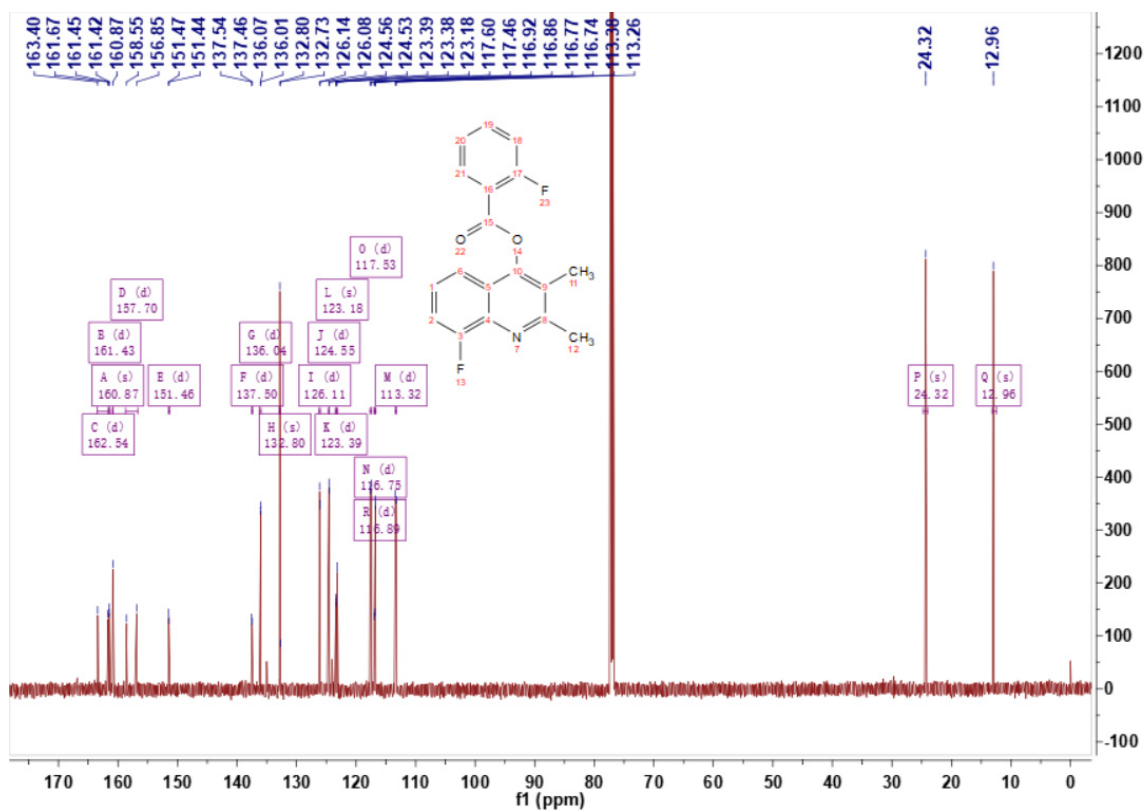
¹³C NMR of compound 2b



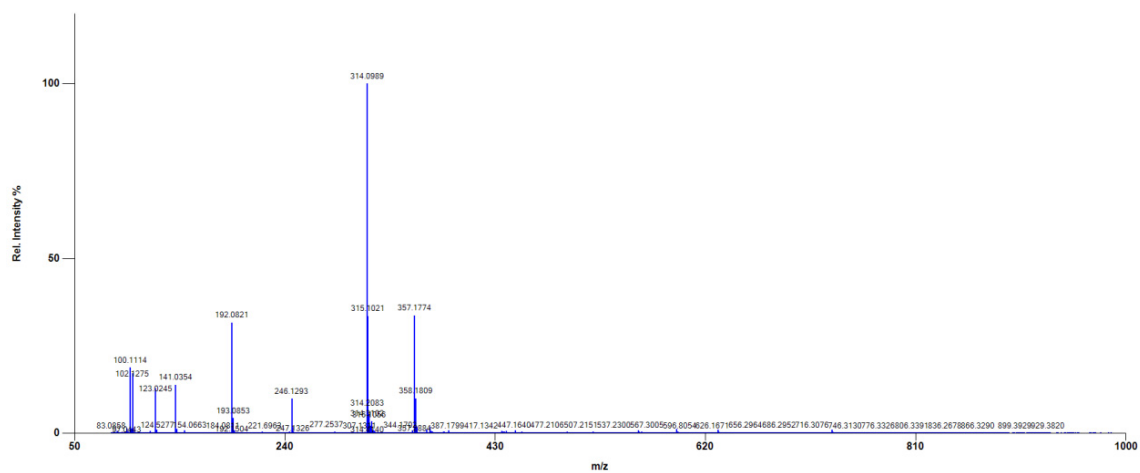
HRMS of compound 2b



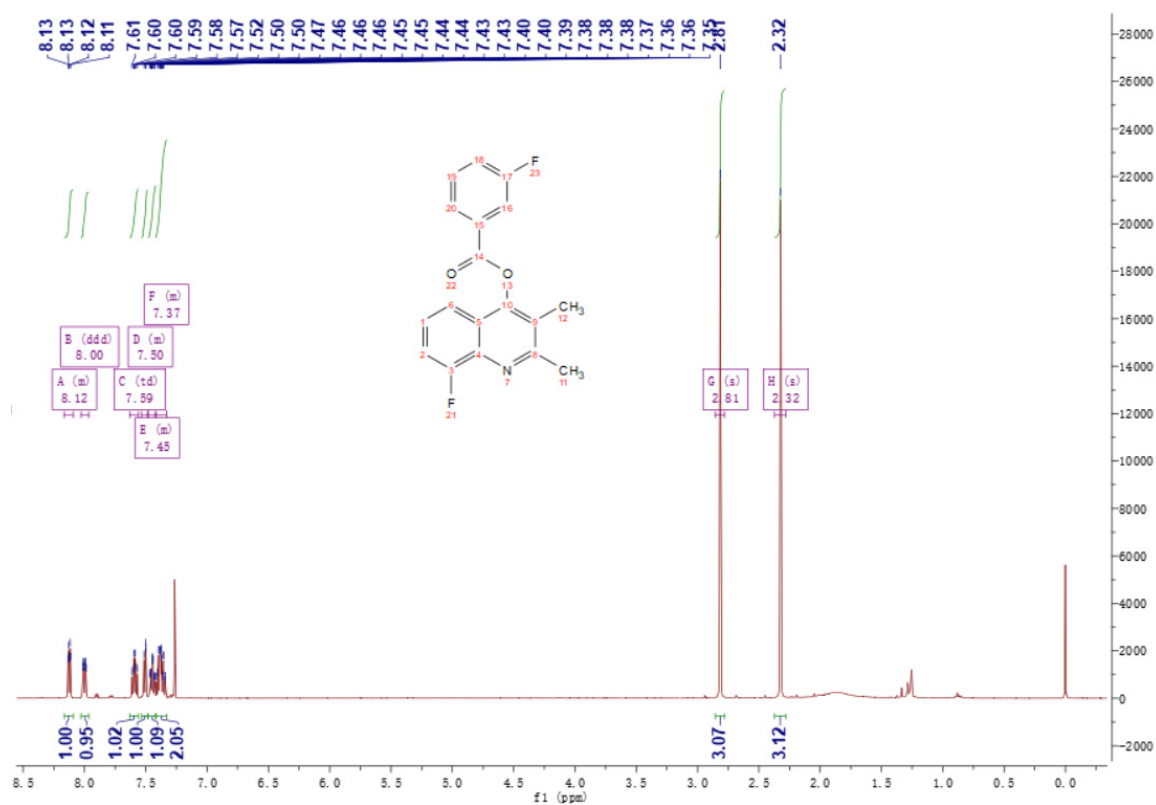
^1H NMR of compound 2c



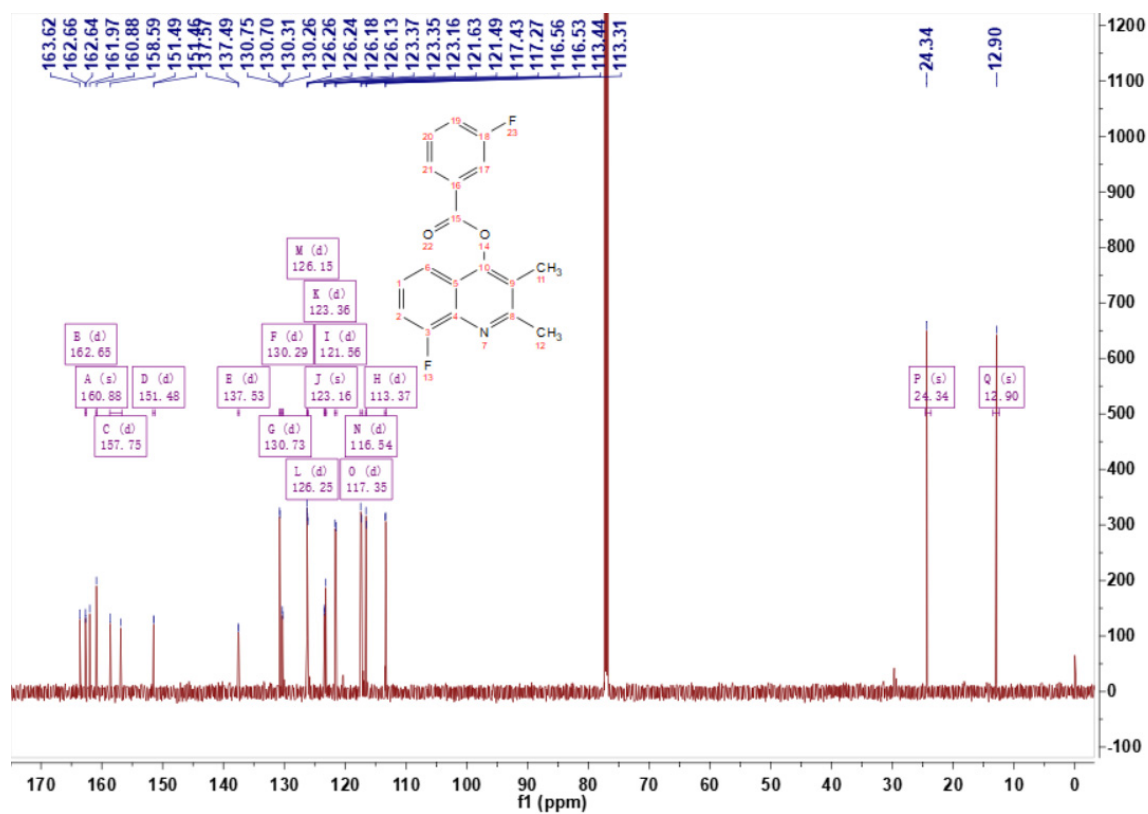
^{13}C NMR of compound 2c



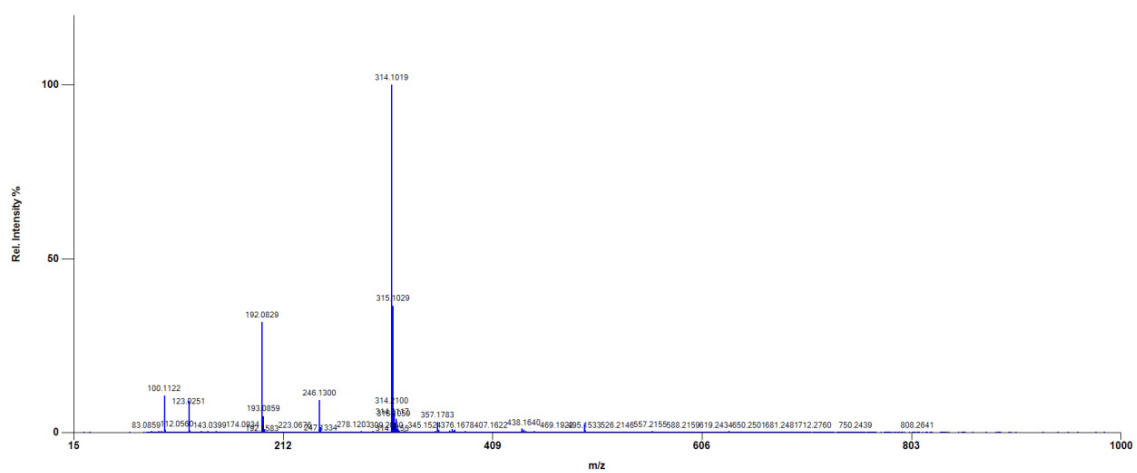
HRMS of compound 2c



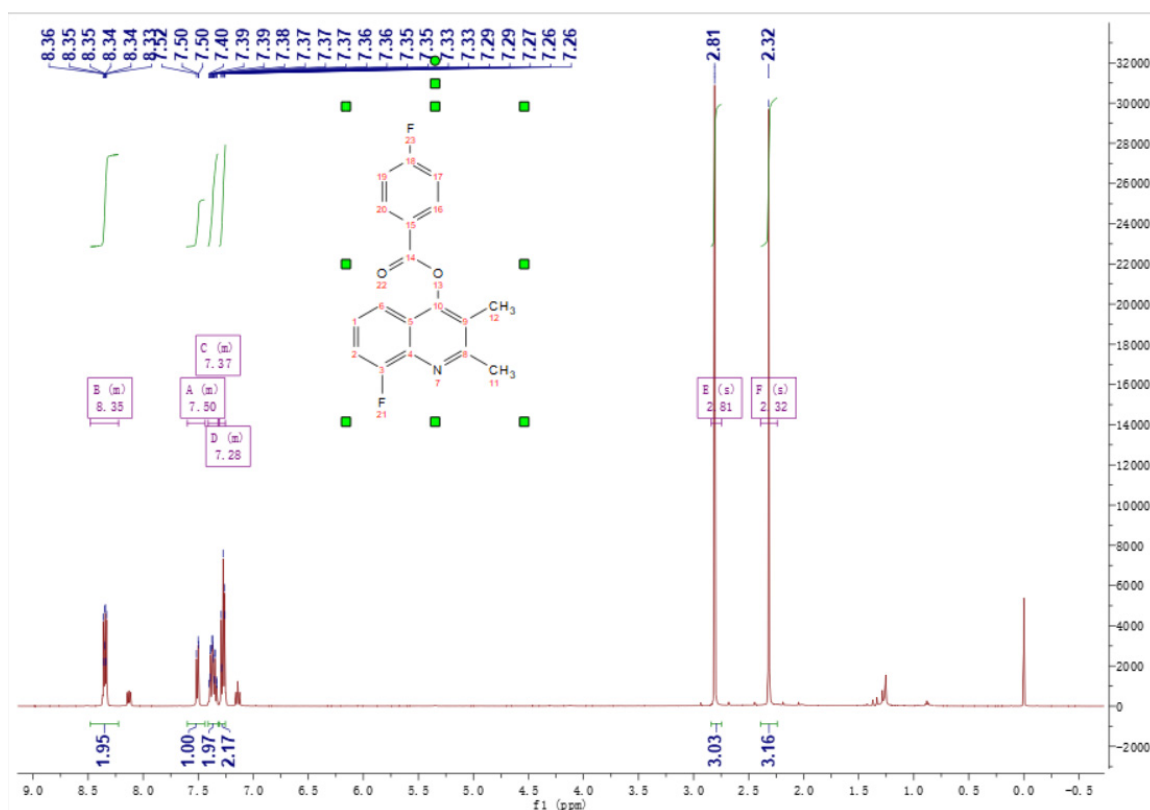
¹H NMR of compound 2d



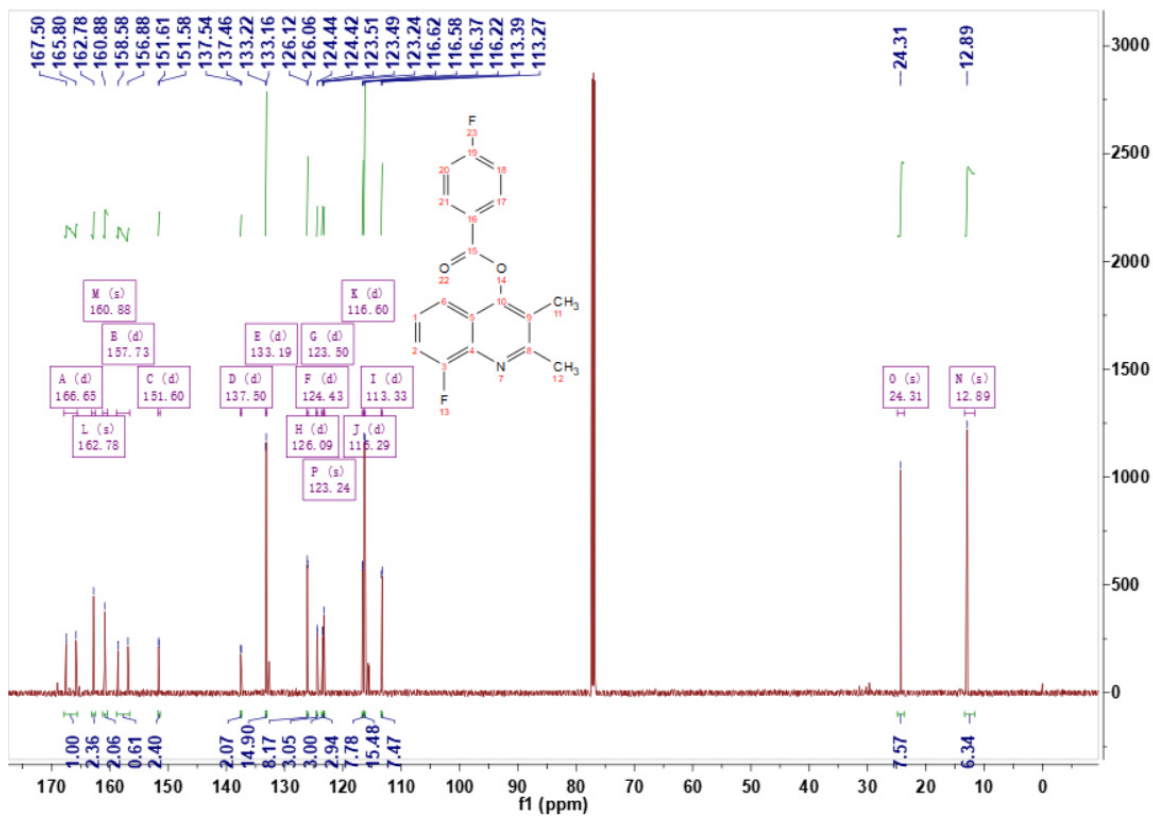
¹³C NMR of compound 2d



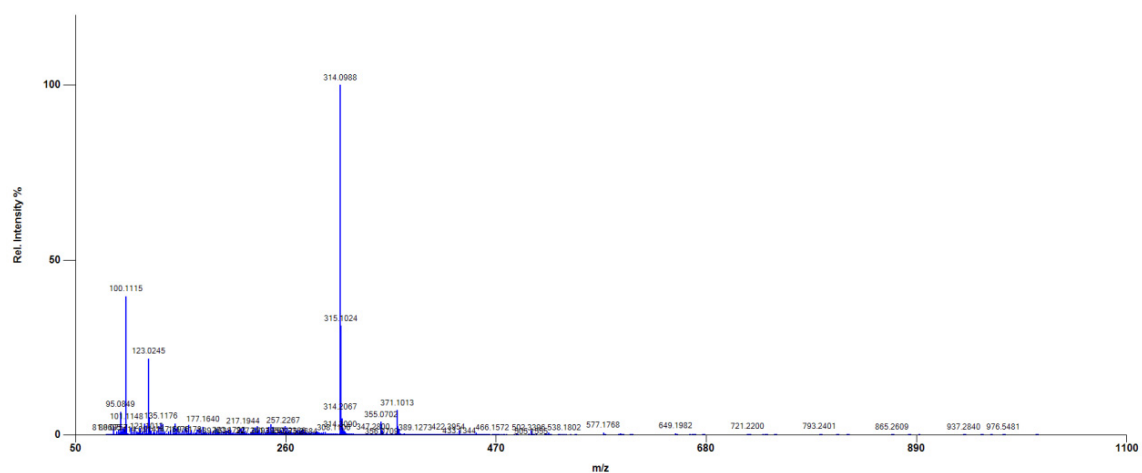
HRMS of compound 2d



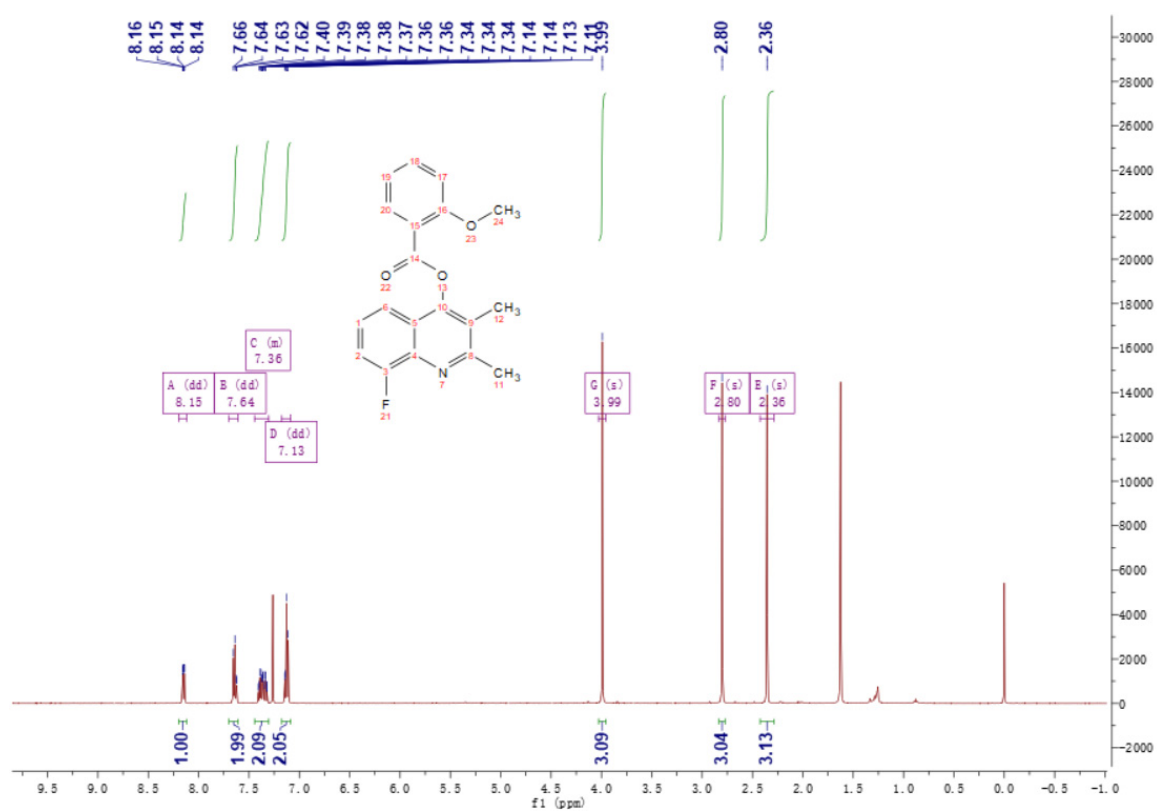
¹H NMR of compound 2e



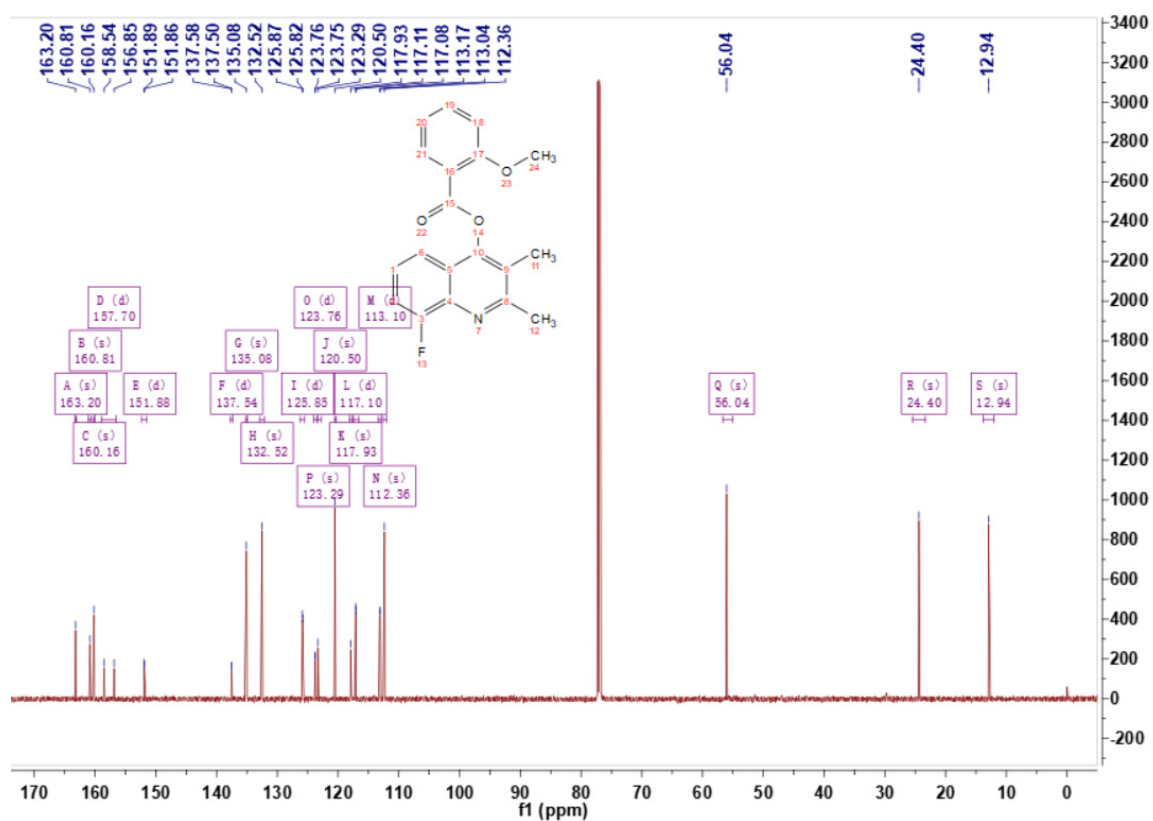
¹³C NMR of compound 2e



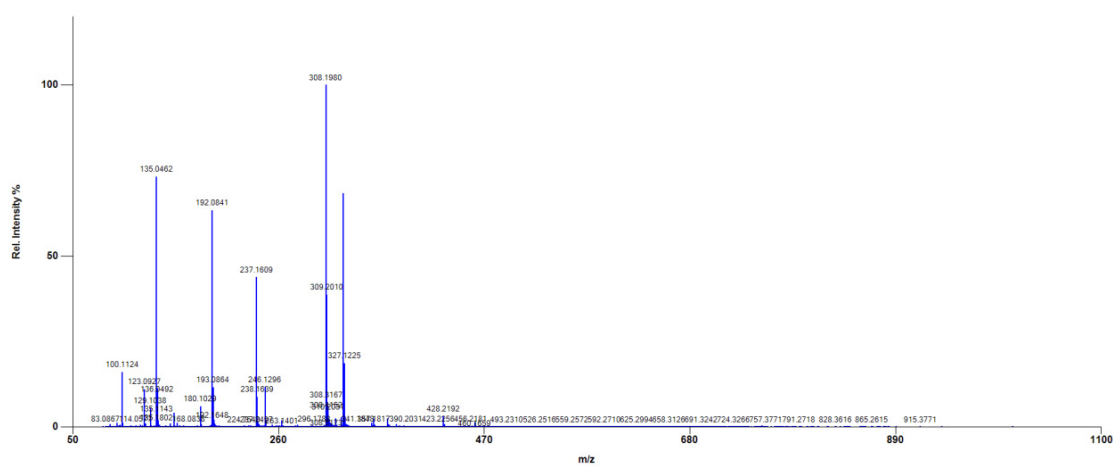
HRMS of compound 2e



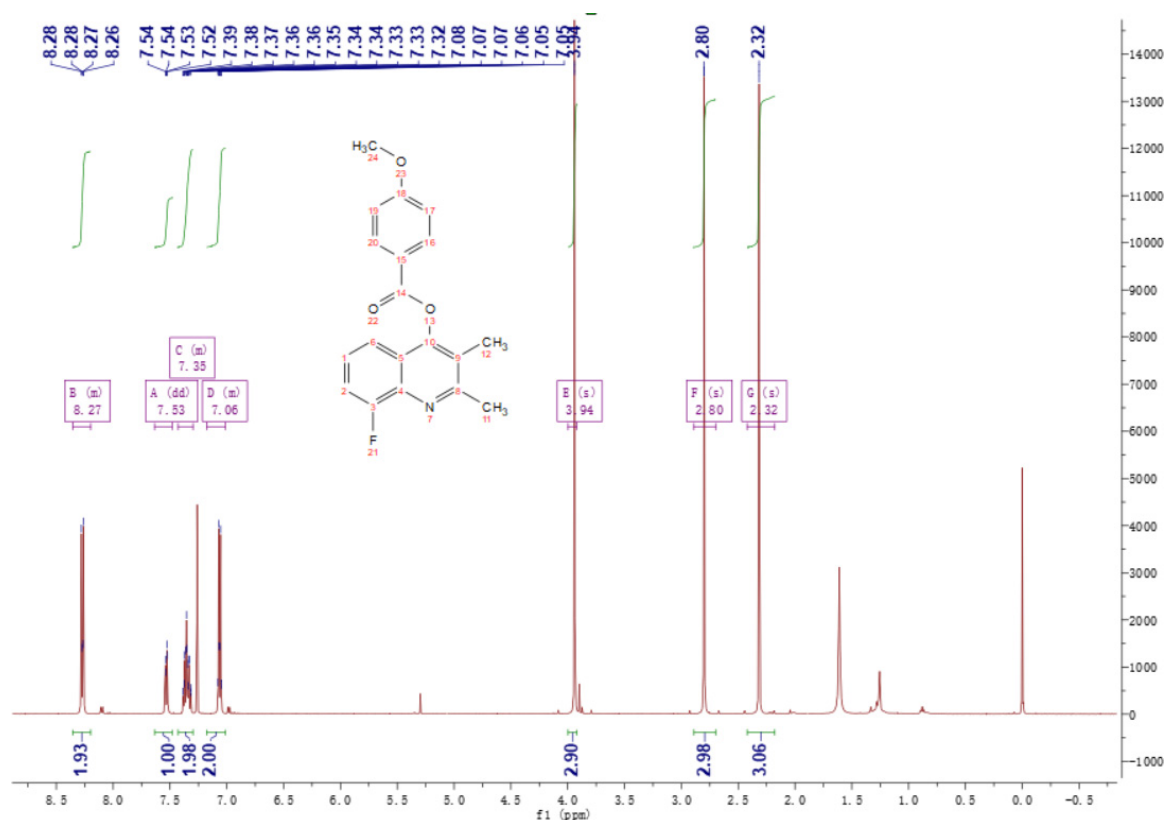
¹H NMR of compound 2f



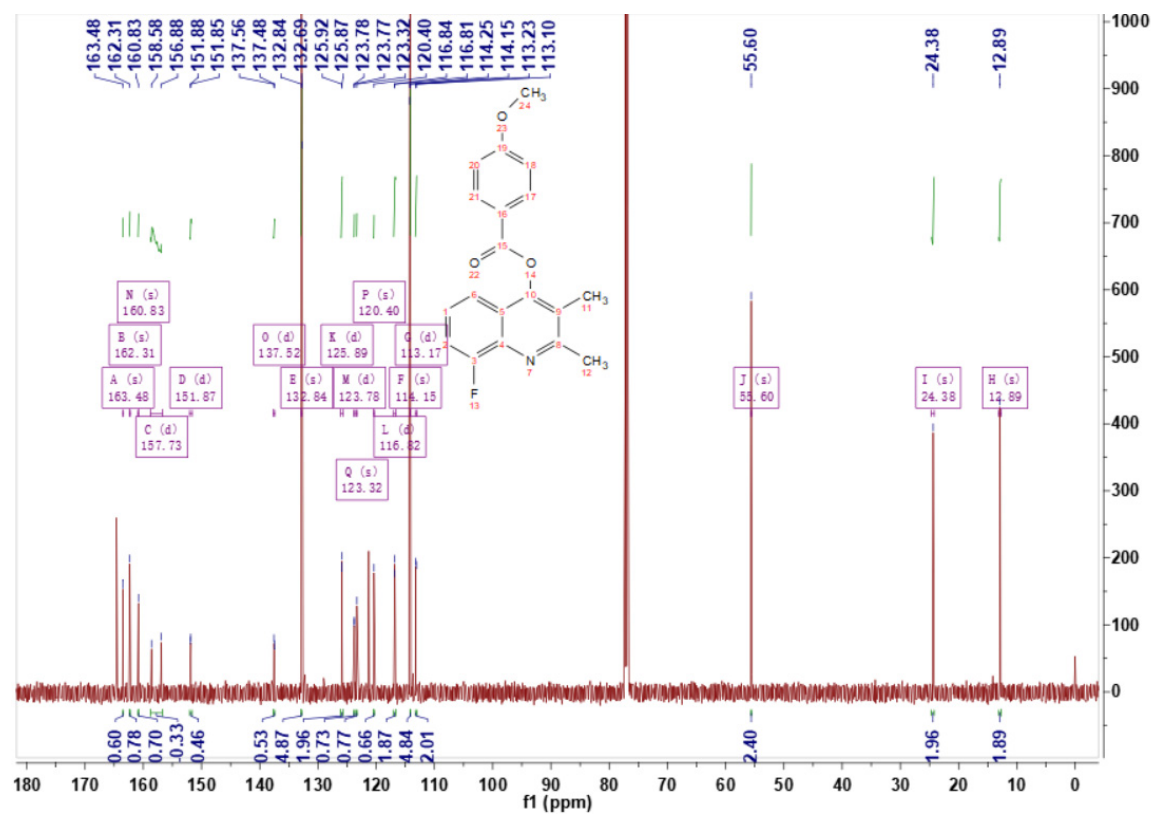
^{13}C NMR of compound 2f



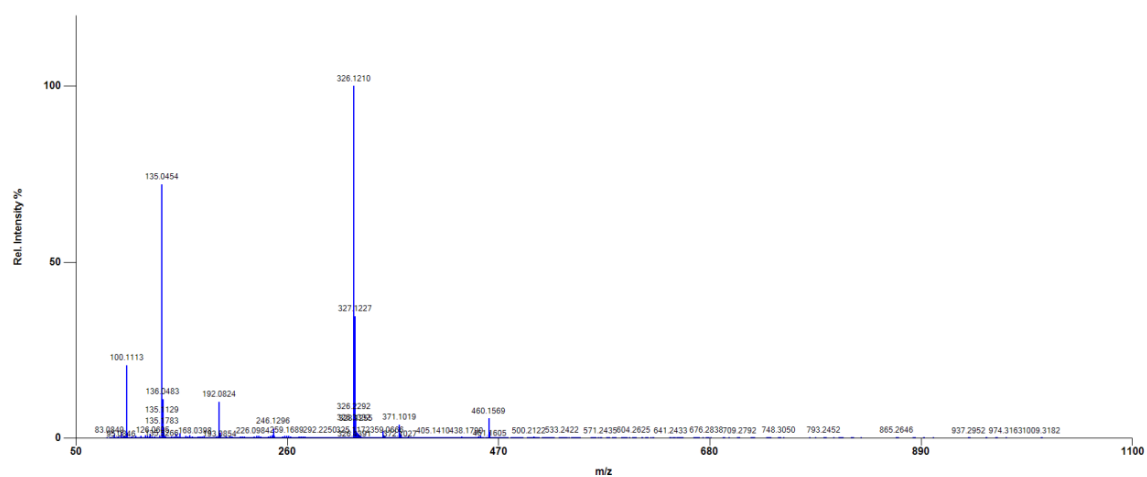
HRMS of compound 2f



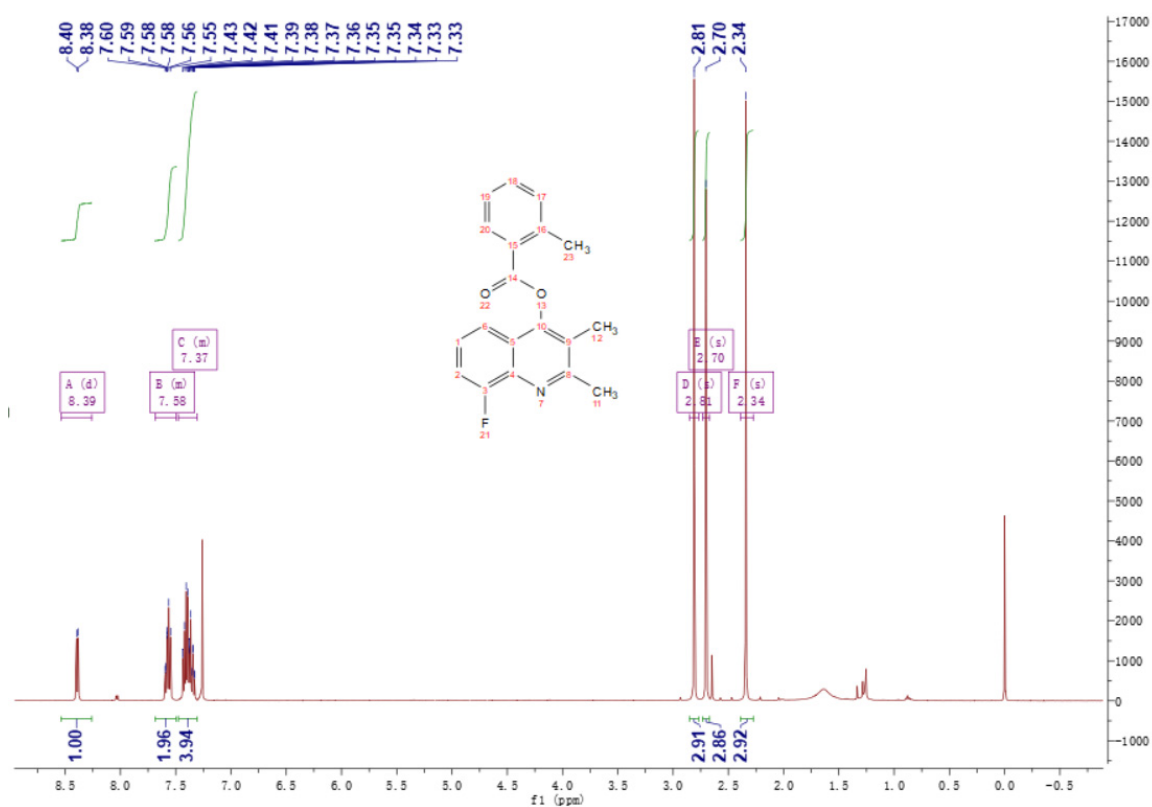
¹H NMR of compound 2g



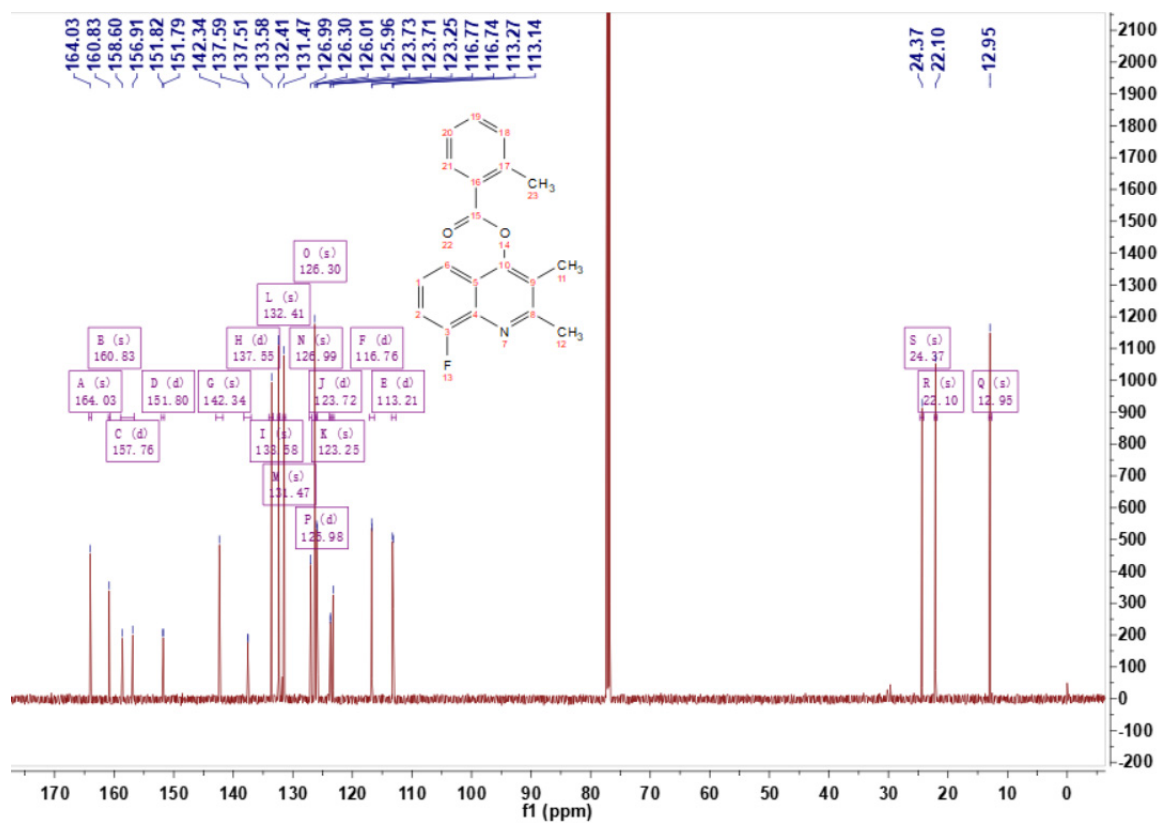
¹³C NMR of compound 2g

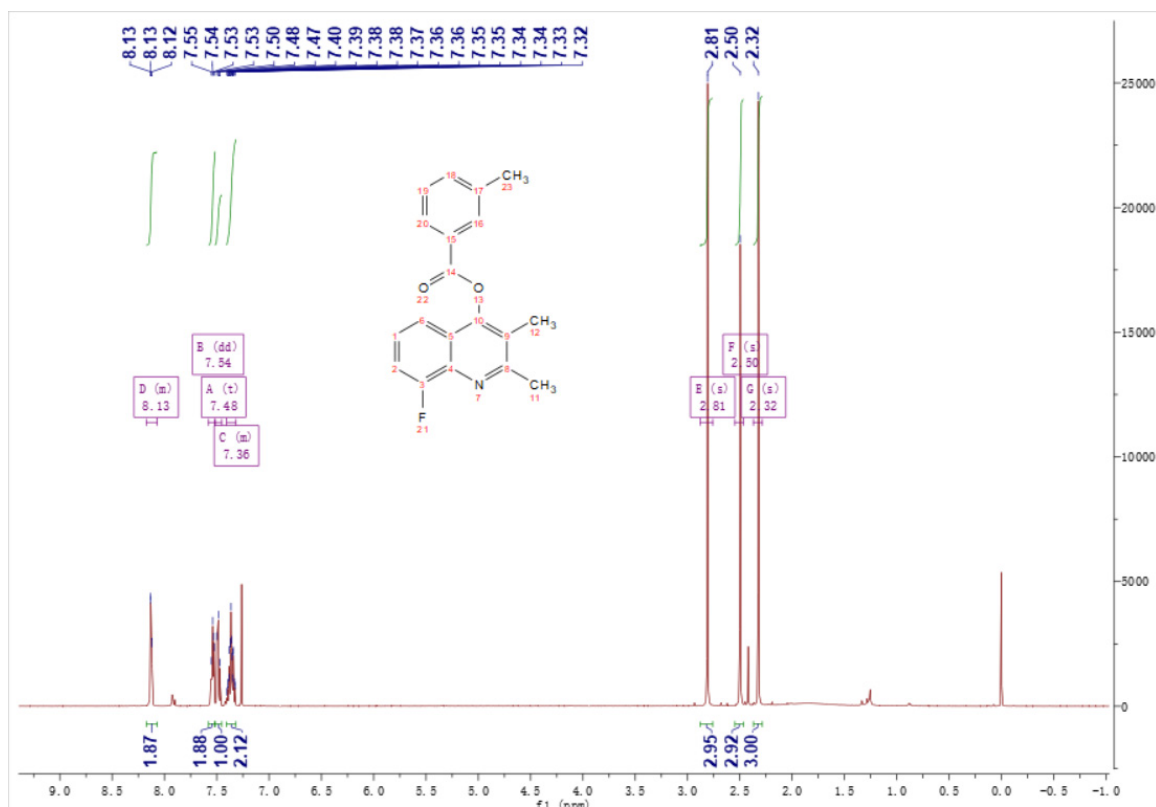


HRMS of compound 2g

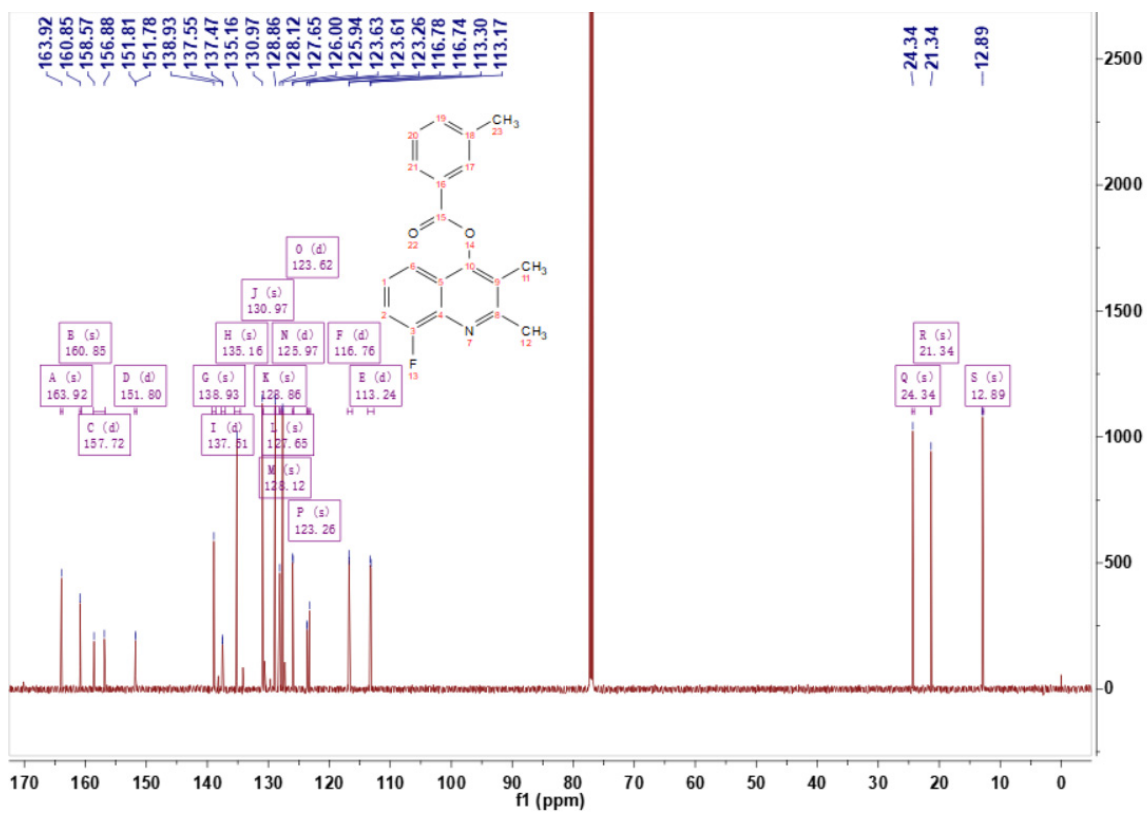


¹H NMR of compound 2h

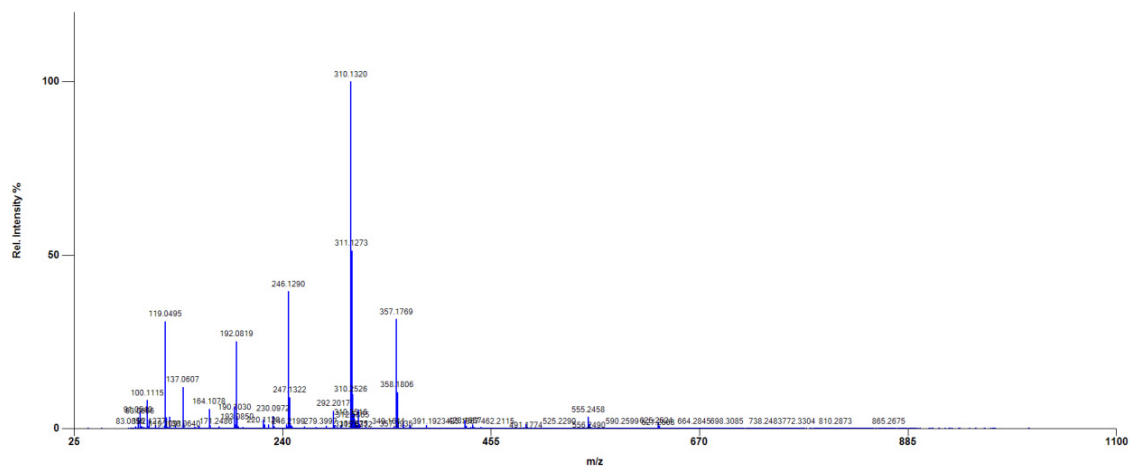




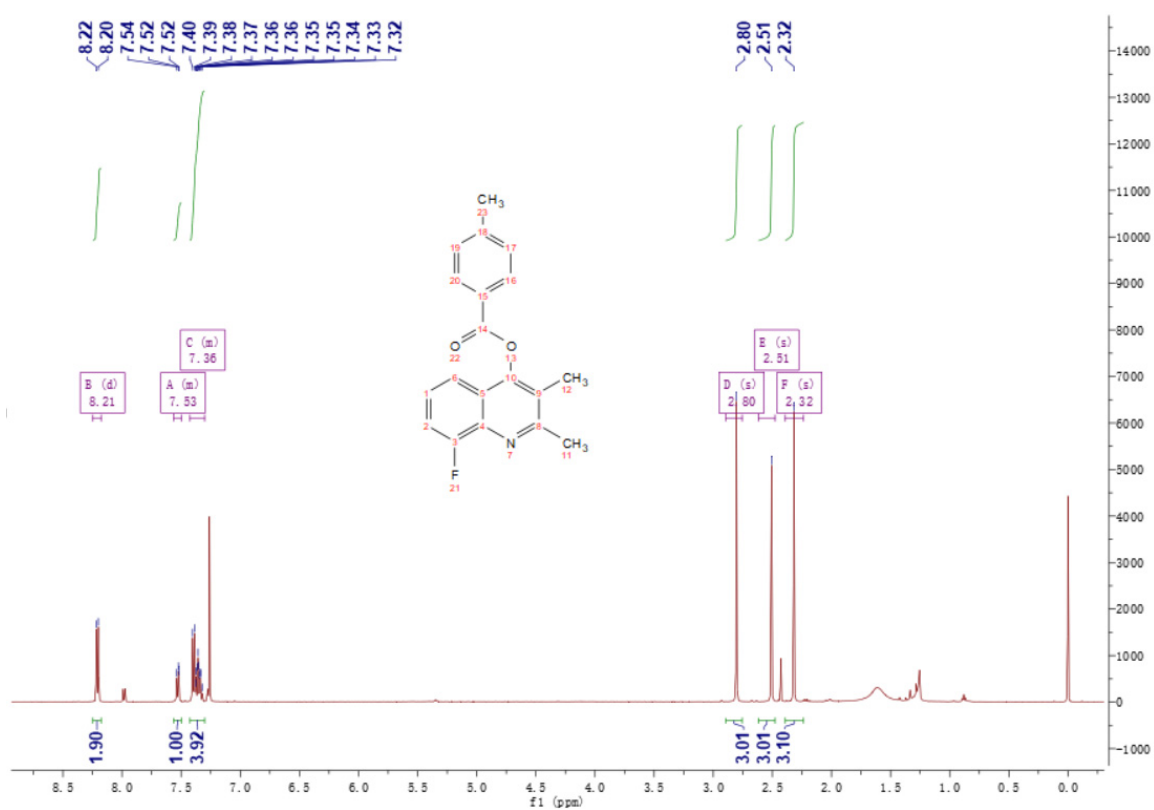
¹H NMR of compound 2i



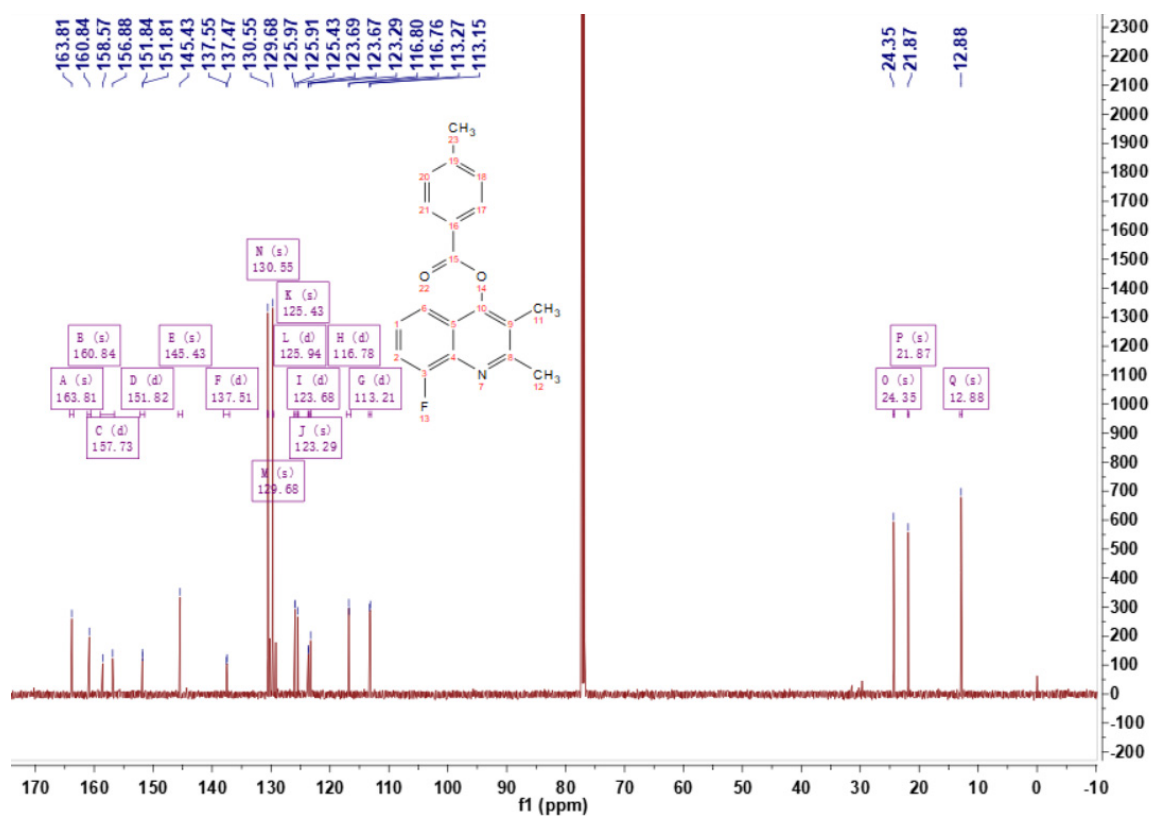
¹³C NMR of compound 2i



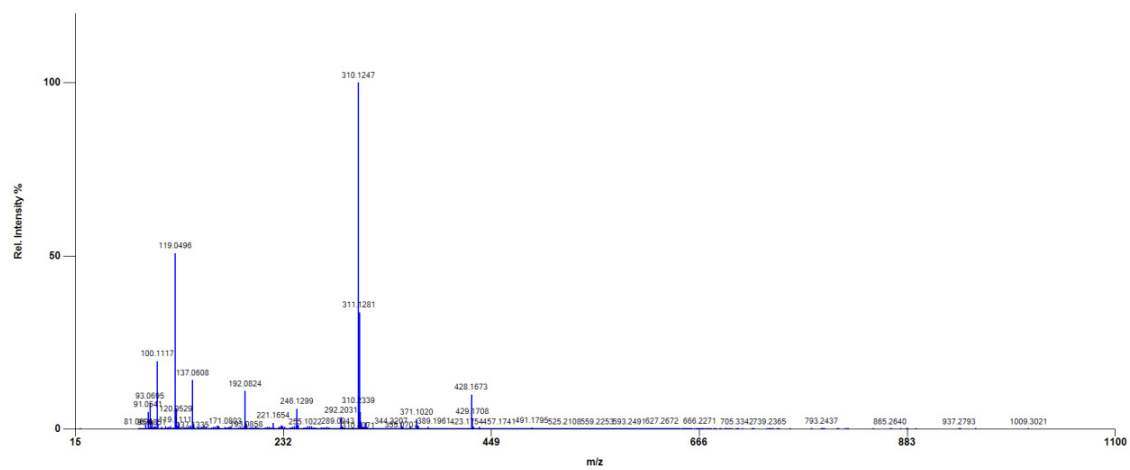
HRMS of compound 2i



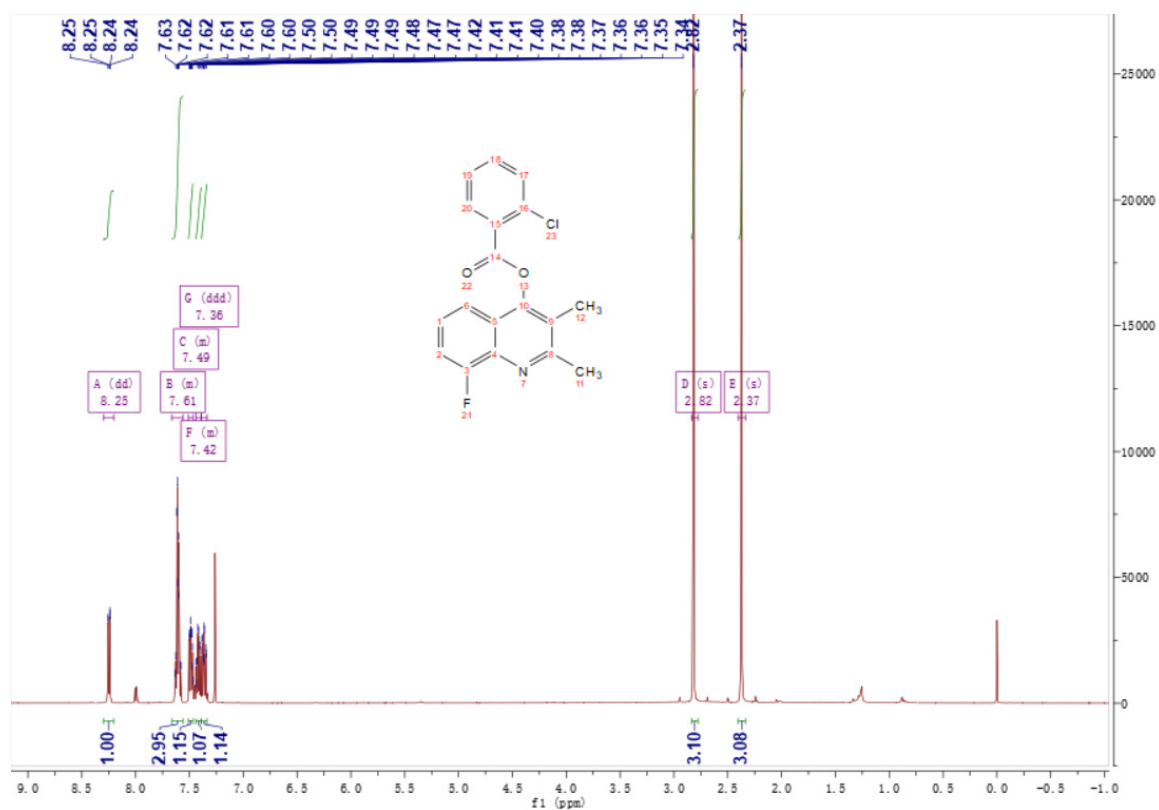
¹H NMR of compound 2j



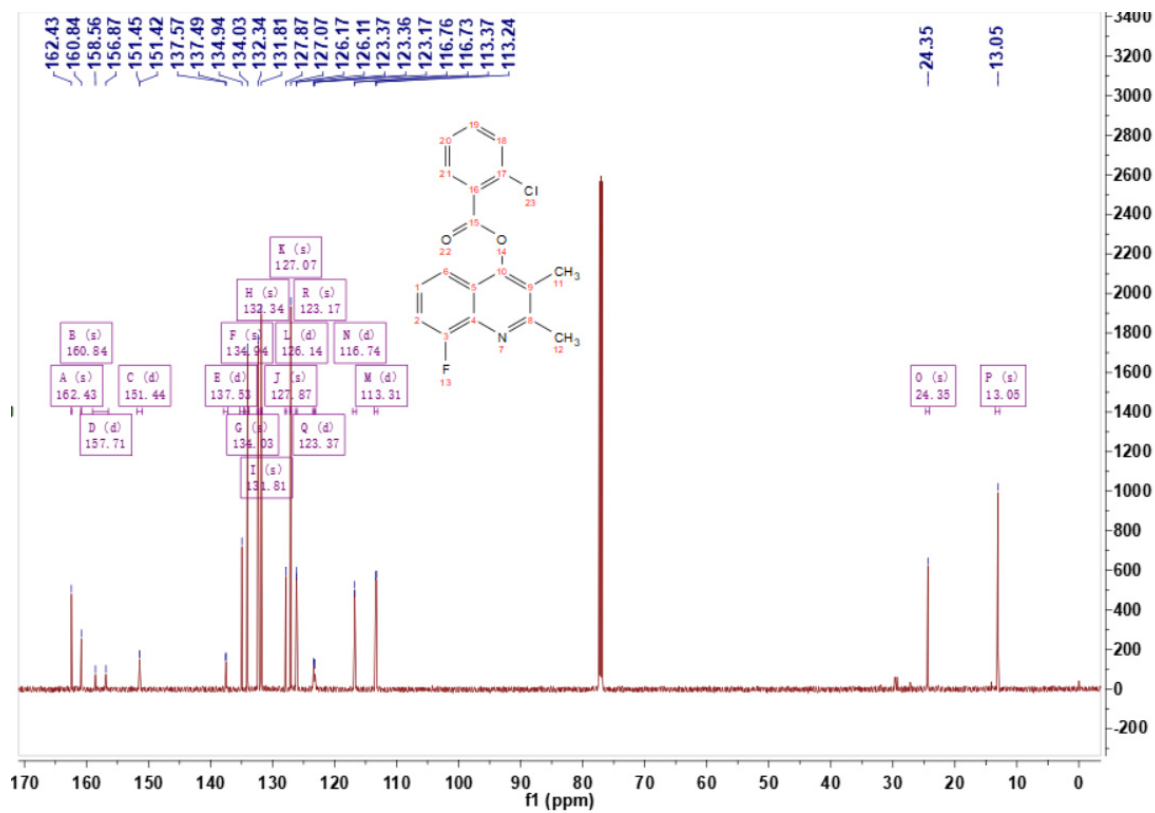
¹³C NMR of compound 2j



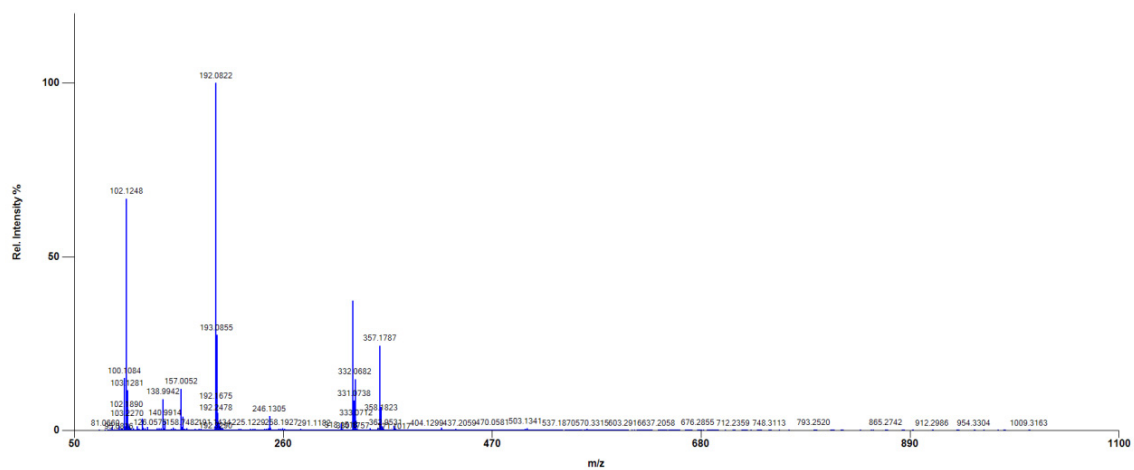
HRMS of compound 2j



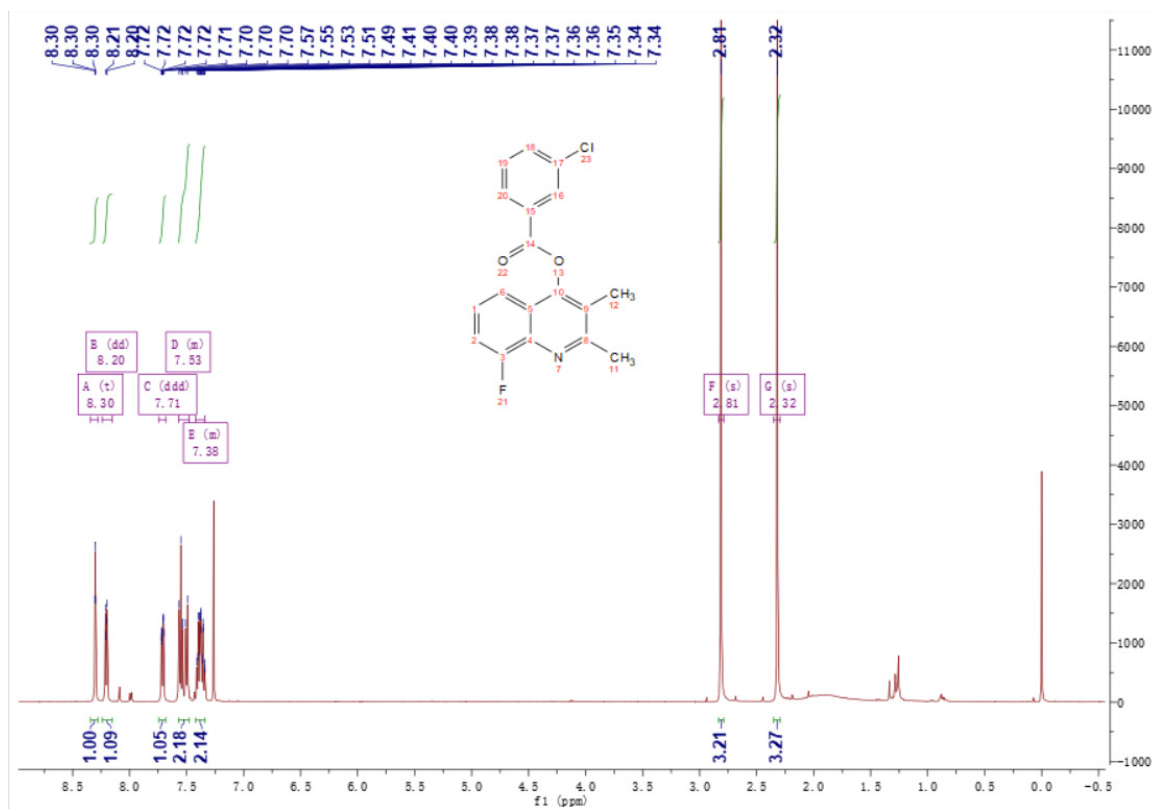
¹H NMR of compound 2k



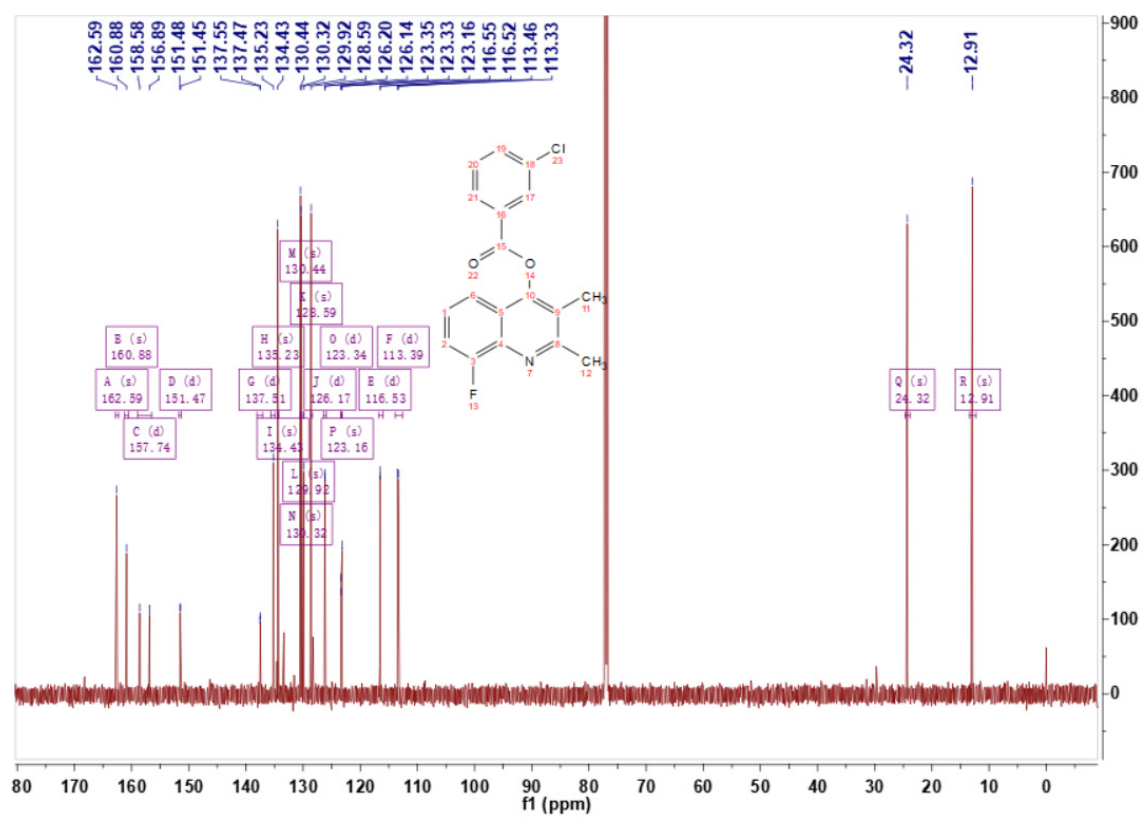
¹³C NMR of compound 2k



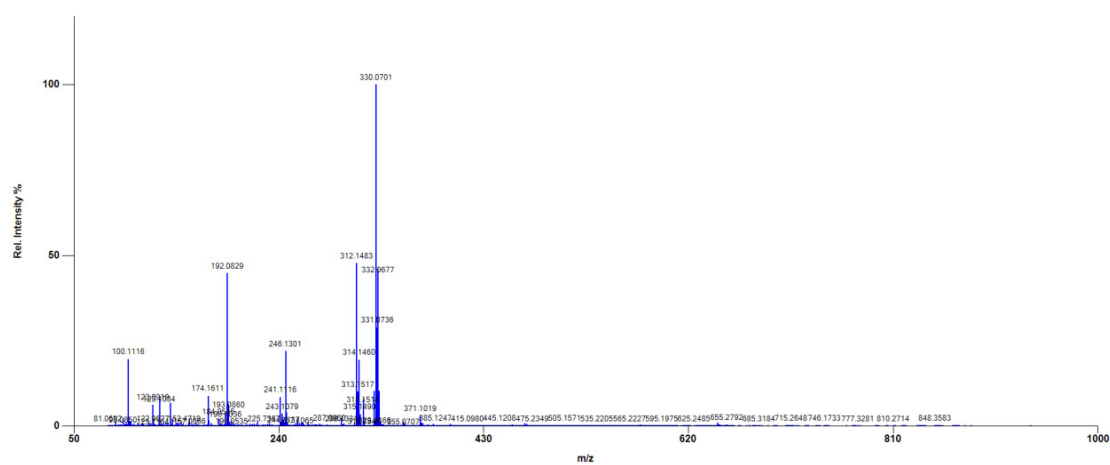
HRMS of compound 2k



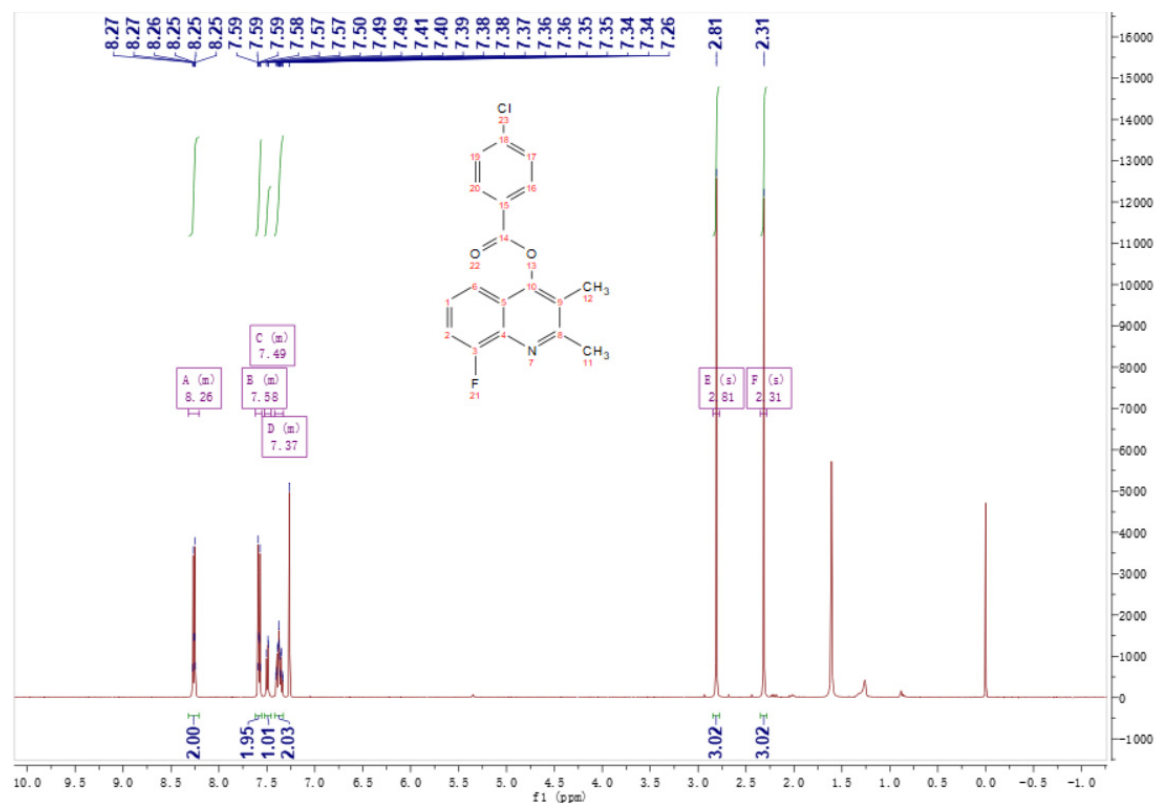
¹H NMR of compound 2l



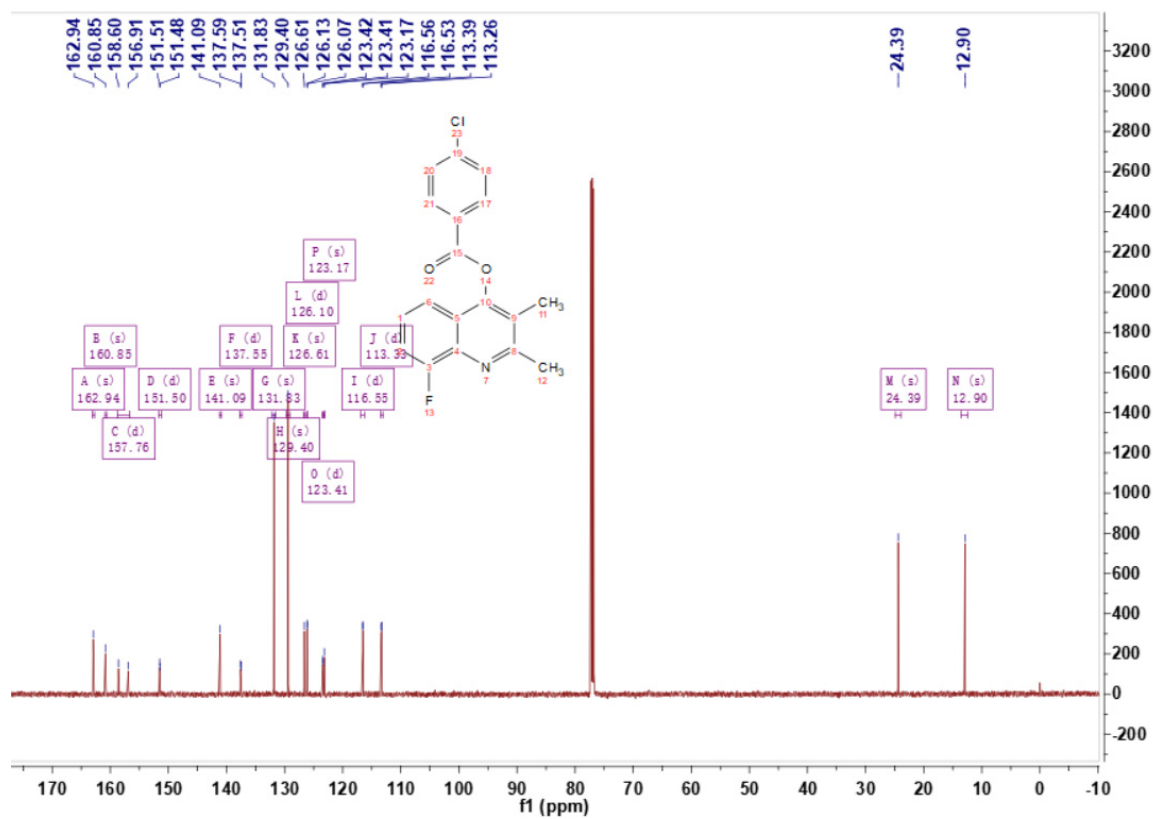
¹³C NMR of compound 21



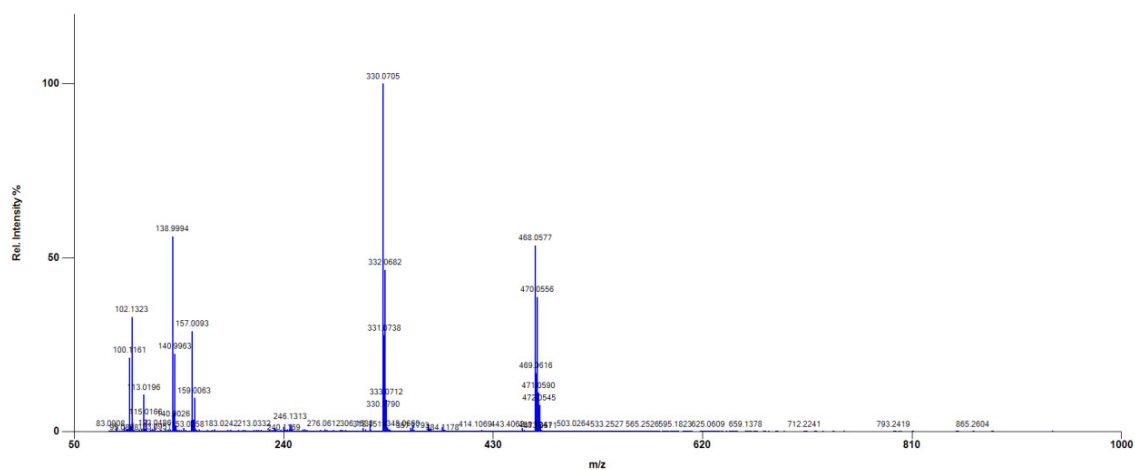
HRMS of compound 21



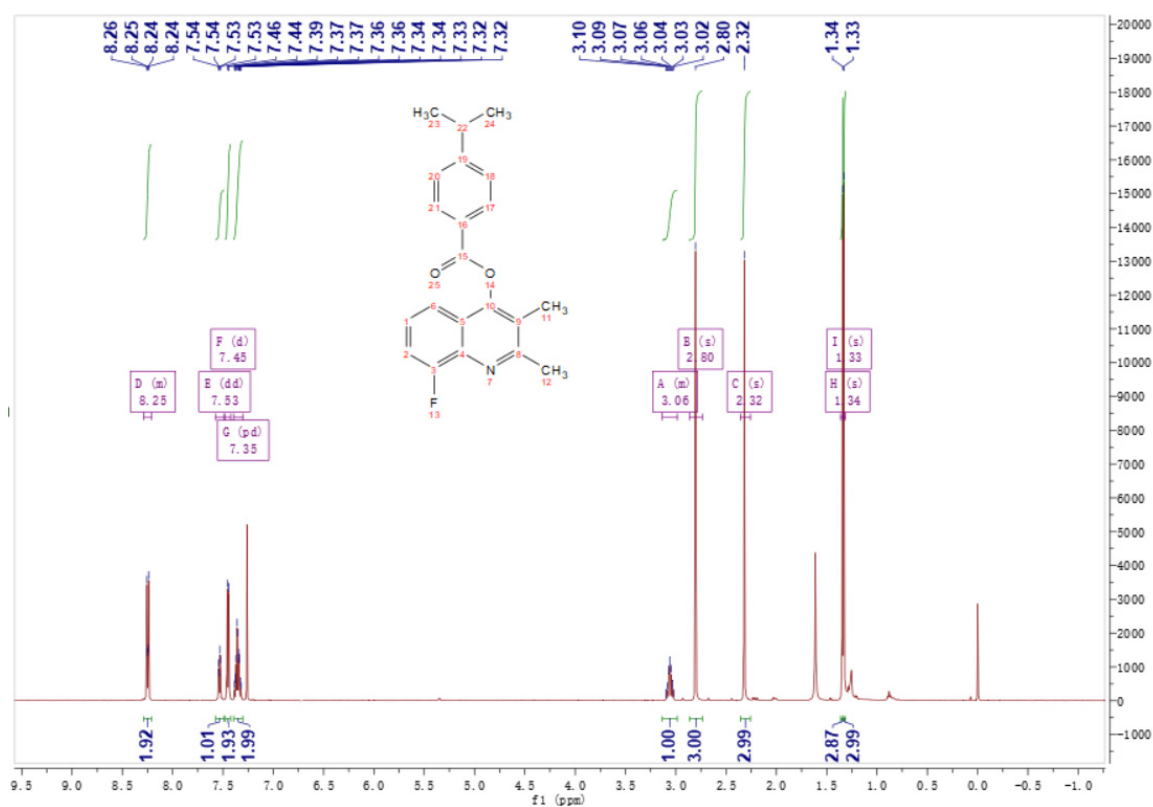
¹H NMR of compound 2m



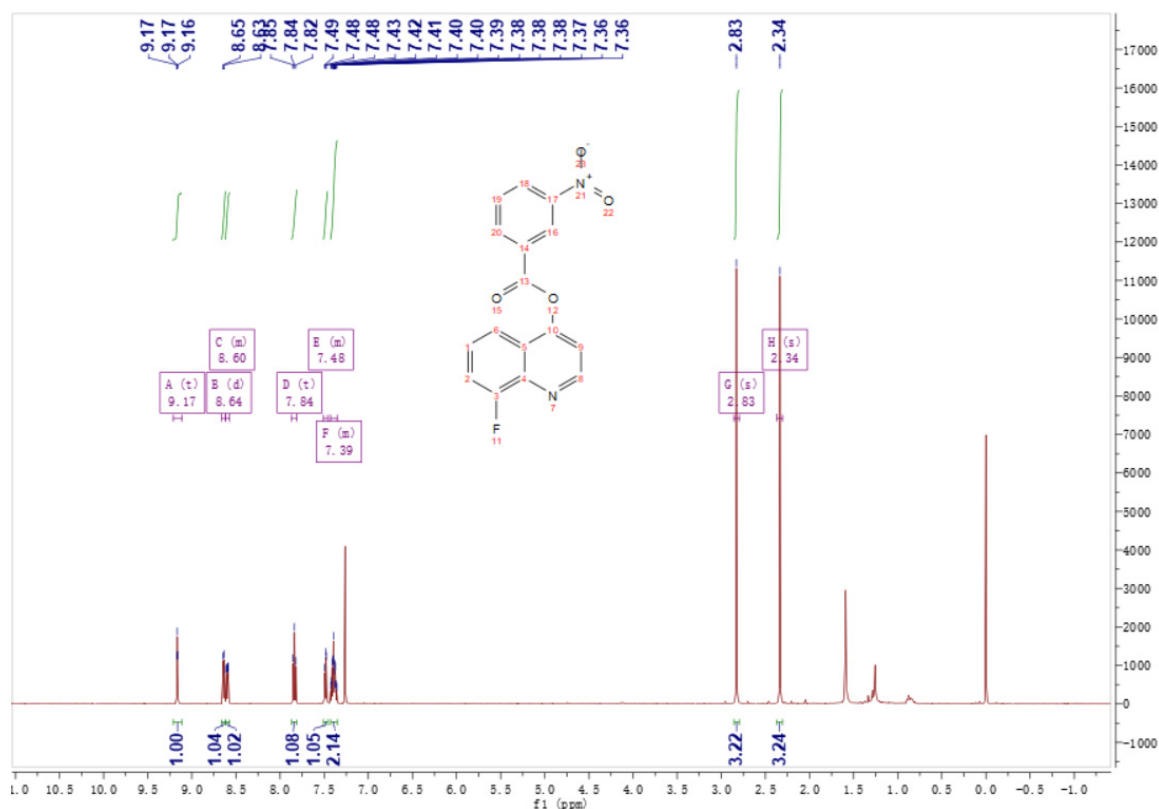
¹³C NMR of compound 2m



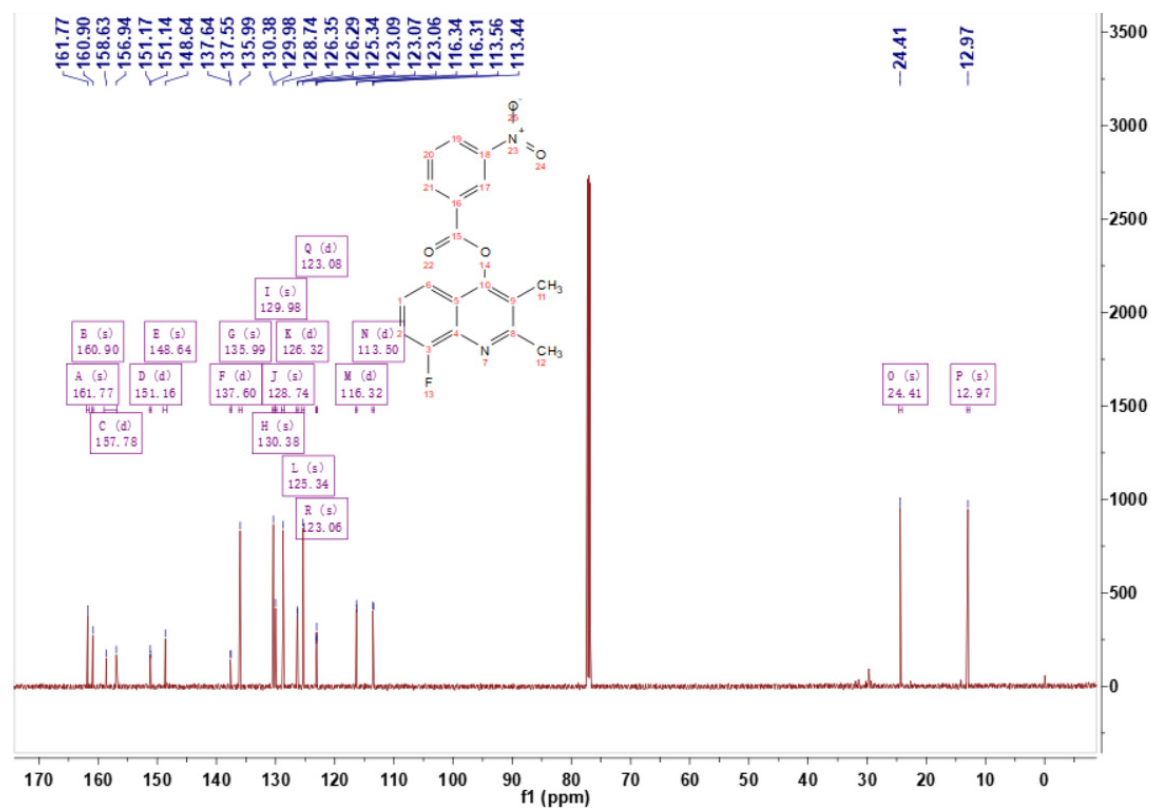
HRMS of compound 2m



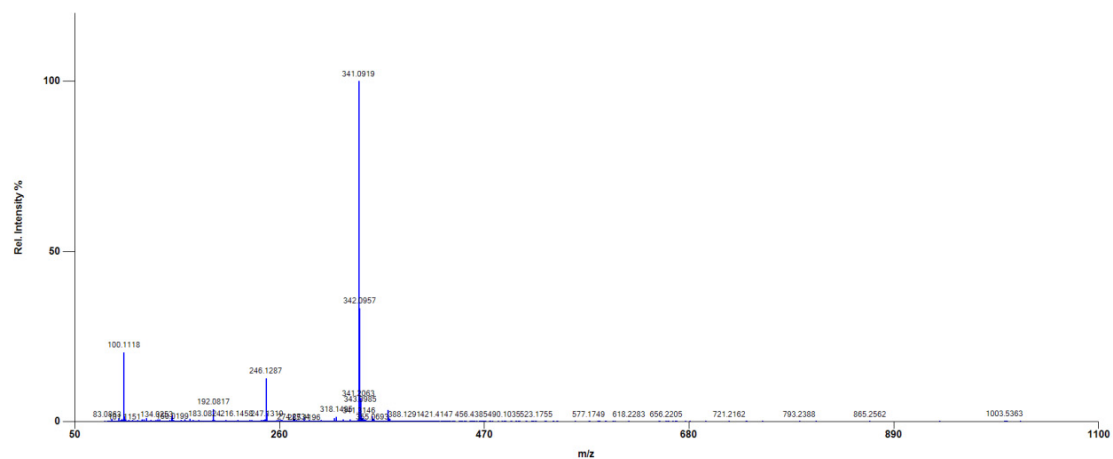
¹H NMR of compound 2n



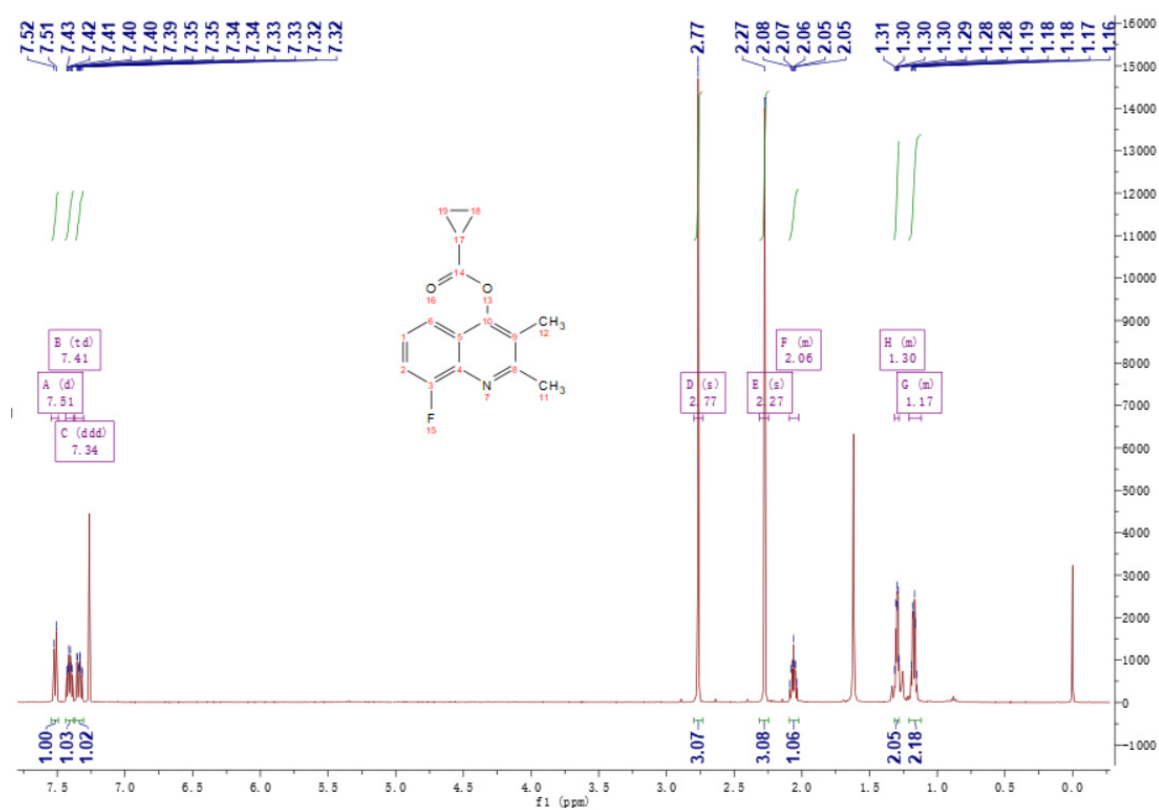
¹H NMR of compound 2o



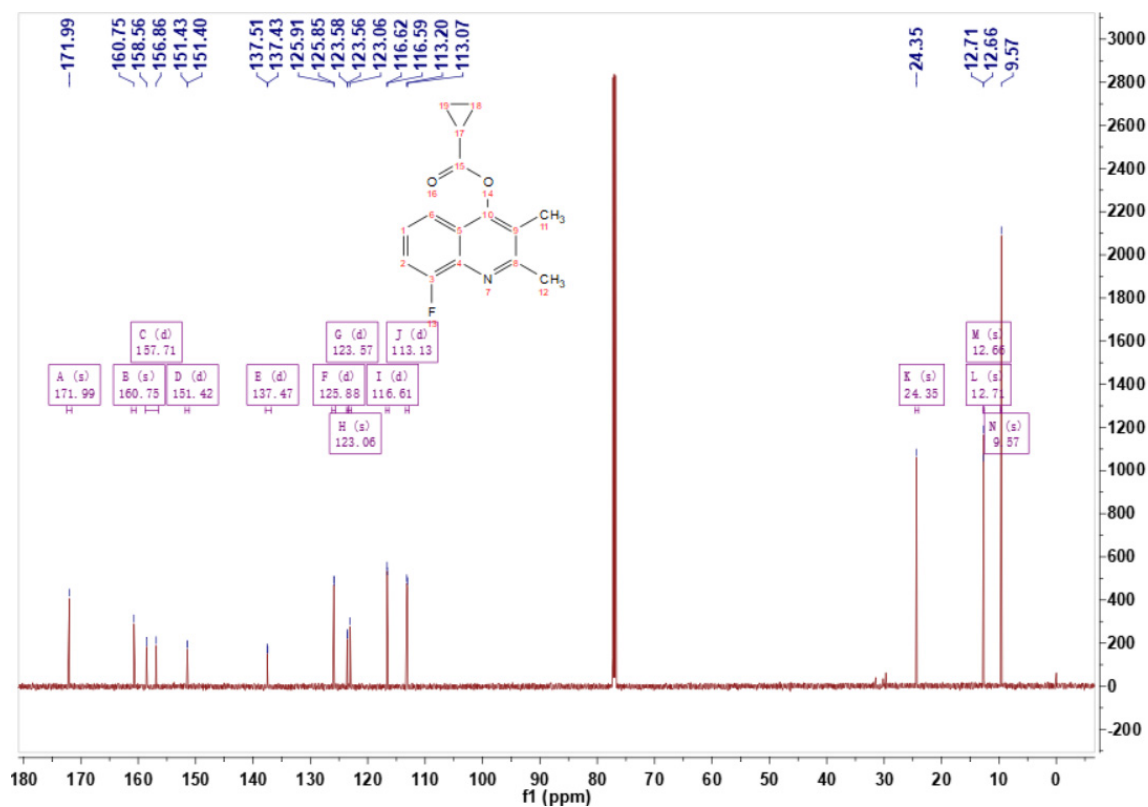
¹³C NMR of compound 2o



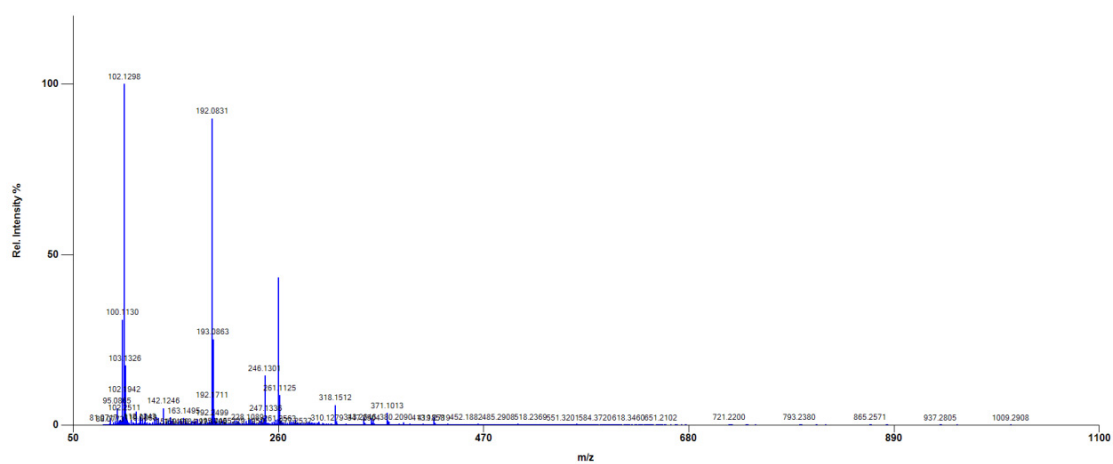
HRMS of compound 2o



¹H NMR of compound 2p



¹³C NMR of compound 2p



HRMS of compound 2p