**A dual-channel Naked-Eye fluorescent probe for discriminative detection of sulfur dioxide and hydrazine**

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**1. Characterization of compounds**

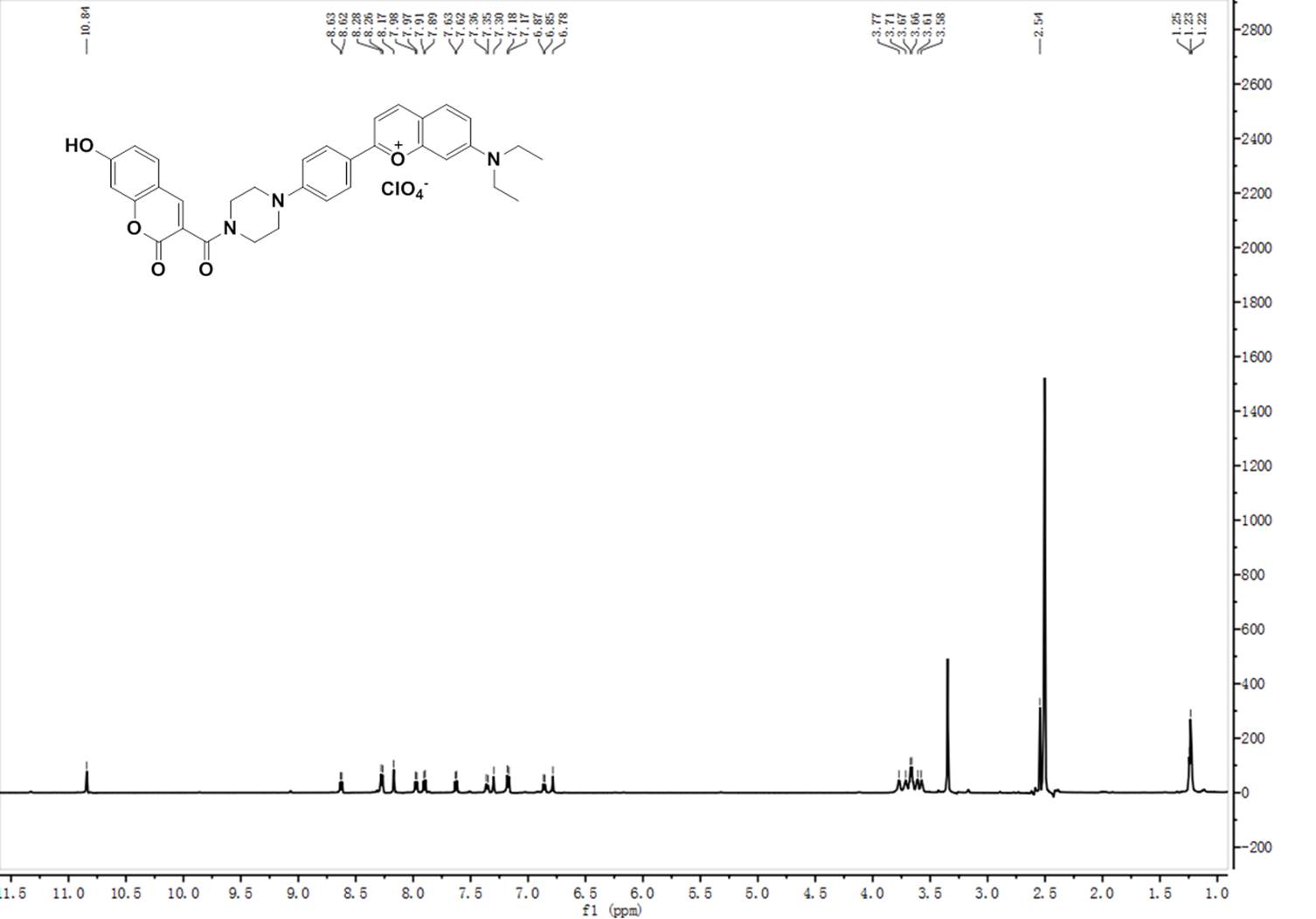
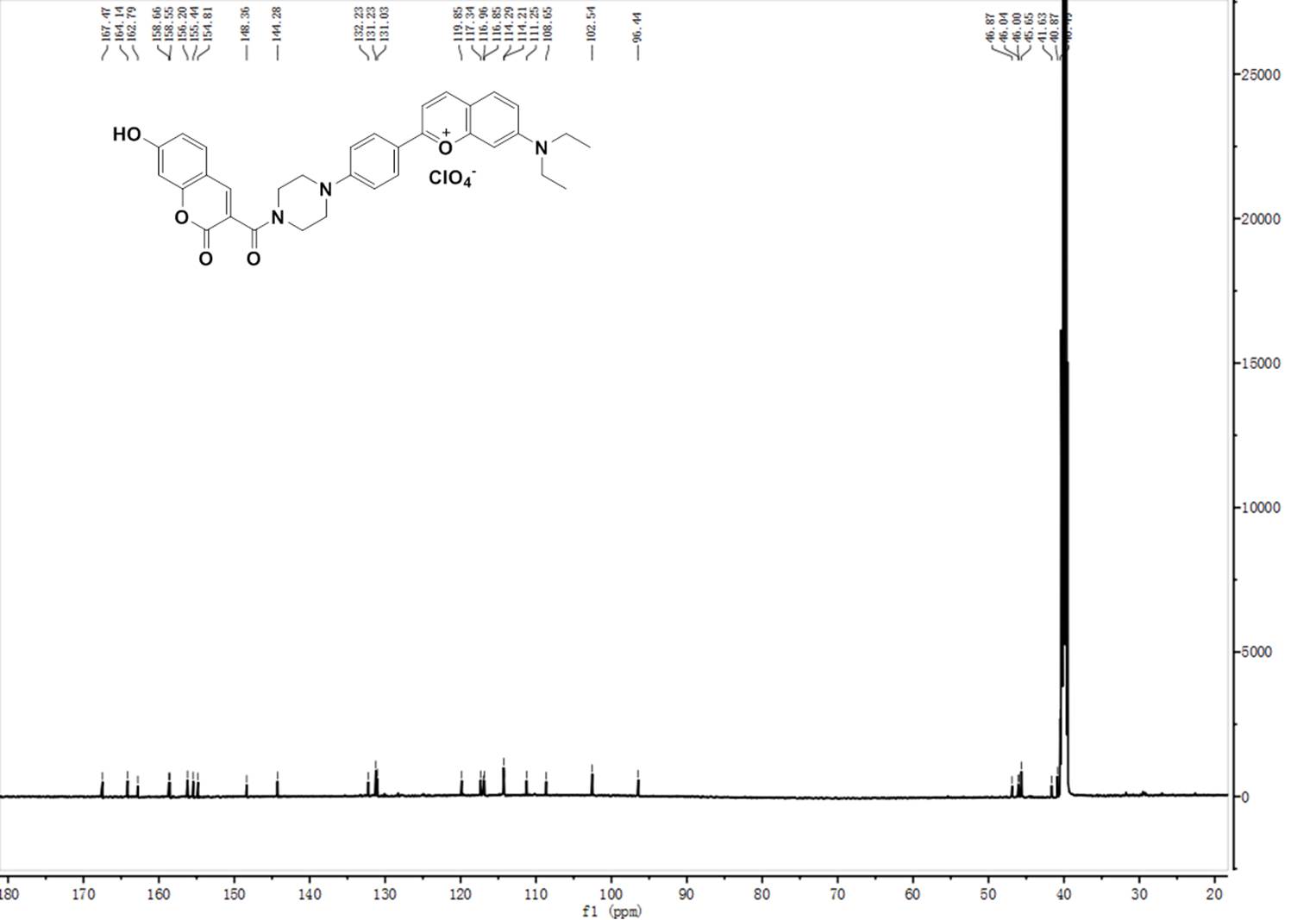


Figure S1 1H NMR (600 MHz) of **PI-CO** in DMSO-*d*6



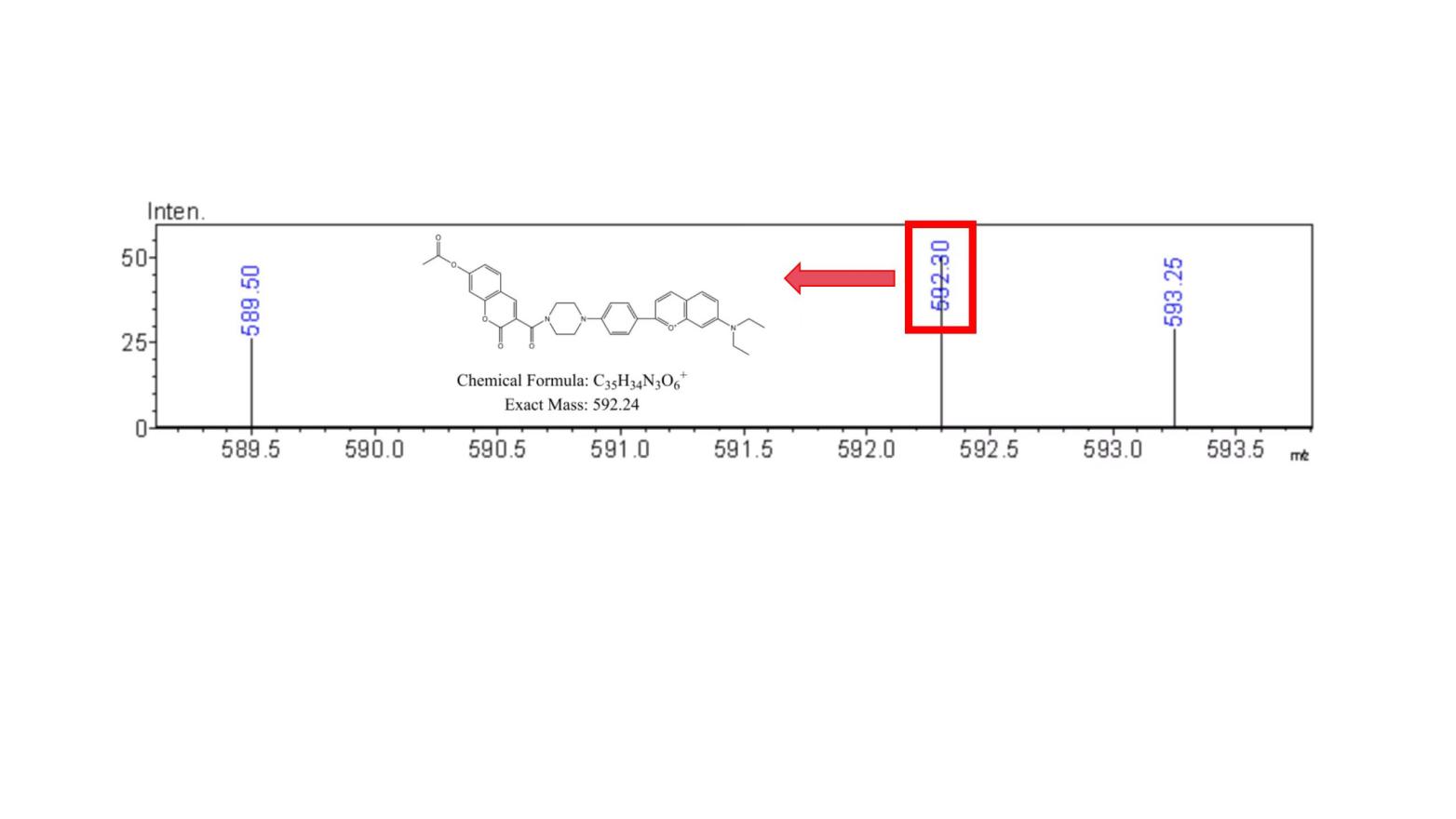
13C NMR (150 MHz) of **PI-CO** in DMSO-*d*6

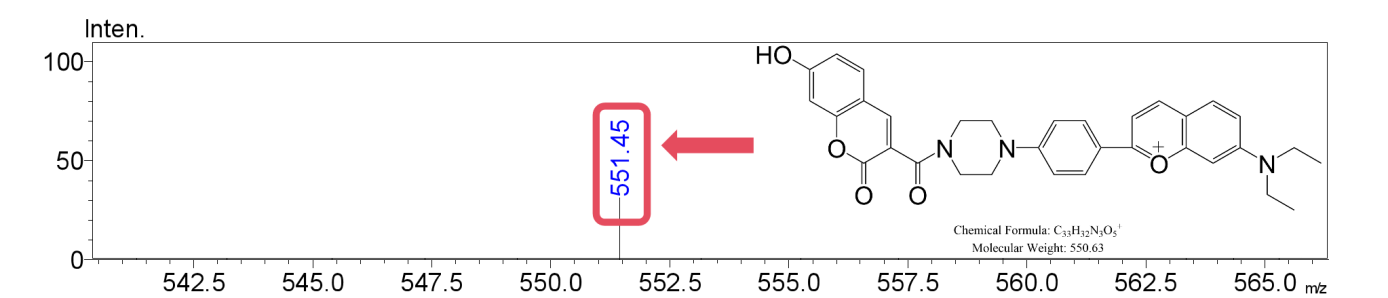


Figure S2 1H NMR (600 MHz) of **PI-CO-NH** in DMSO-*d*6

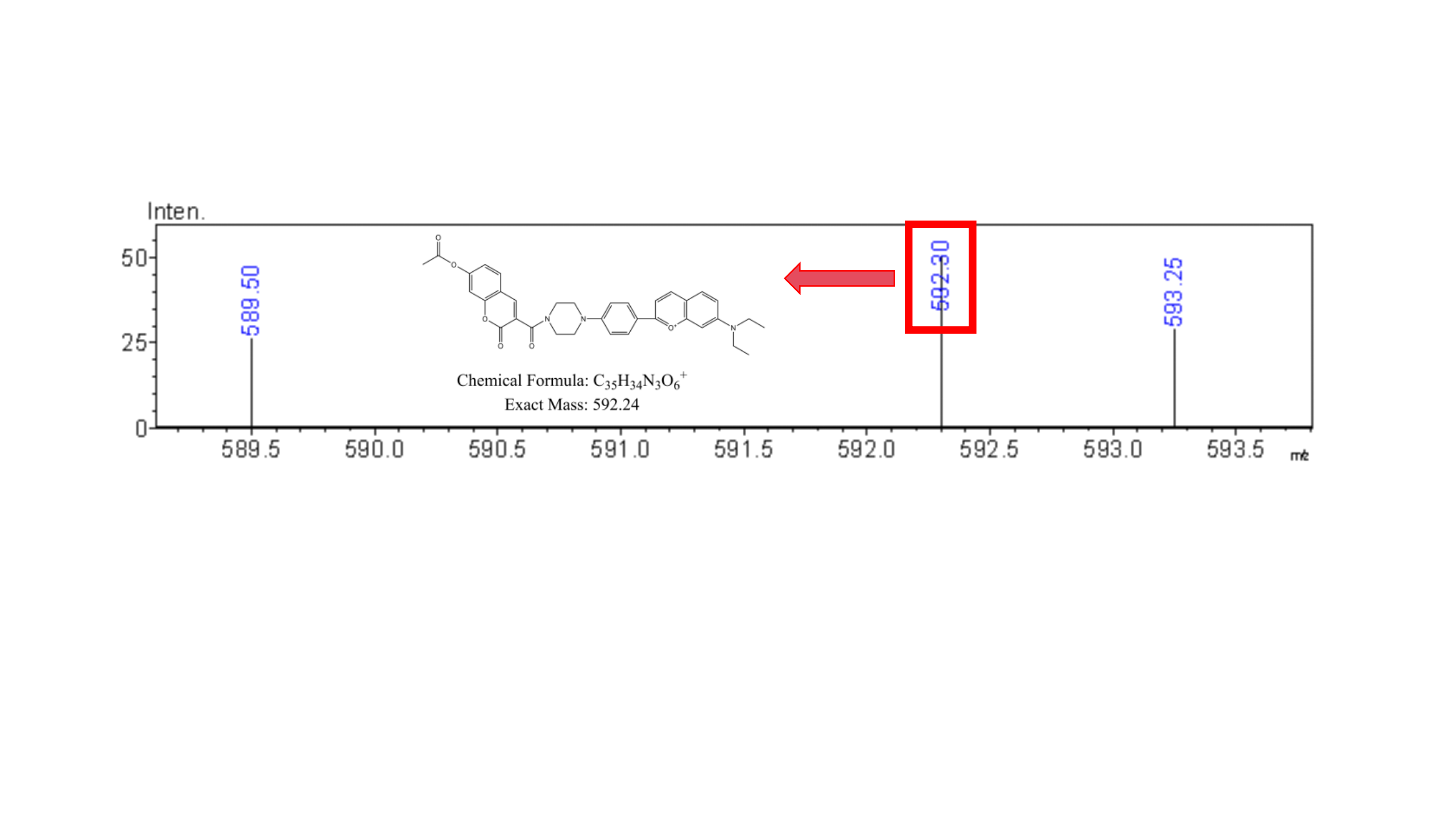


13C NMR (150 MHz) of **PI-CO-NH** in DMSO-*d*6





（a）



（b）

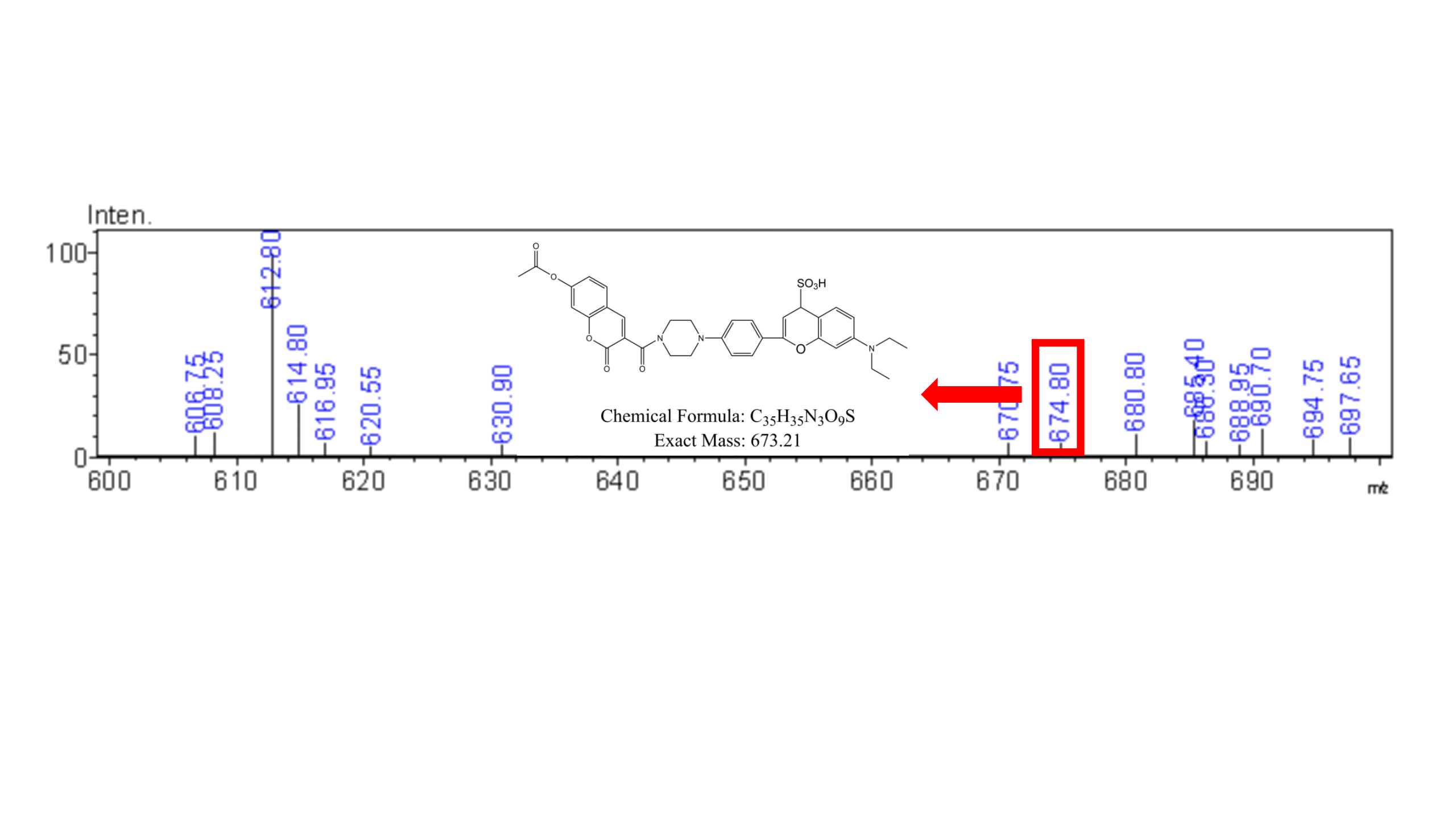


Figure S3 HRMS spectra of **PI-CO-NH** with N2H4 and SO2

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