

¹H and ¹³C NMR spectra for compounds

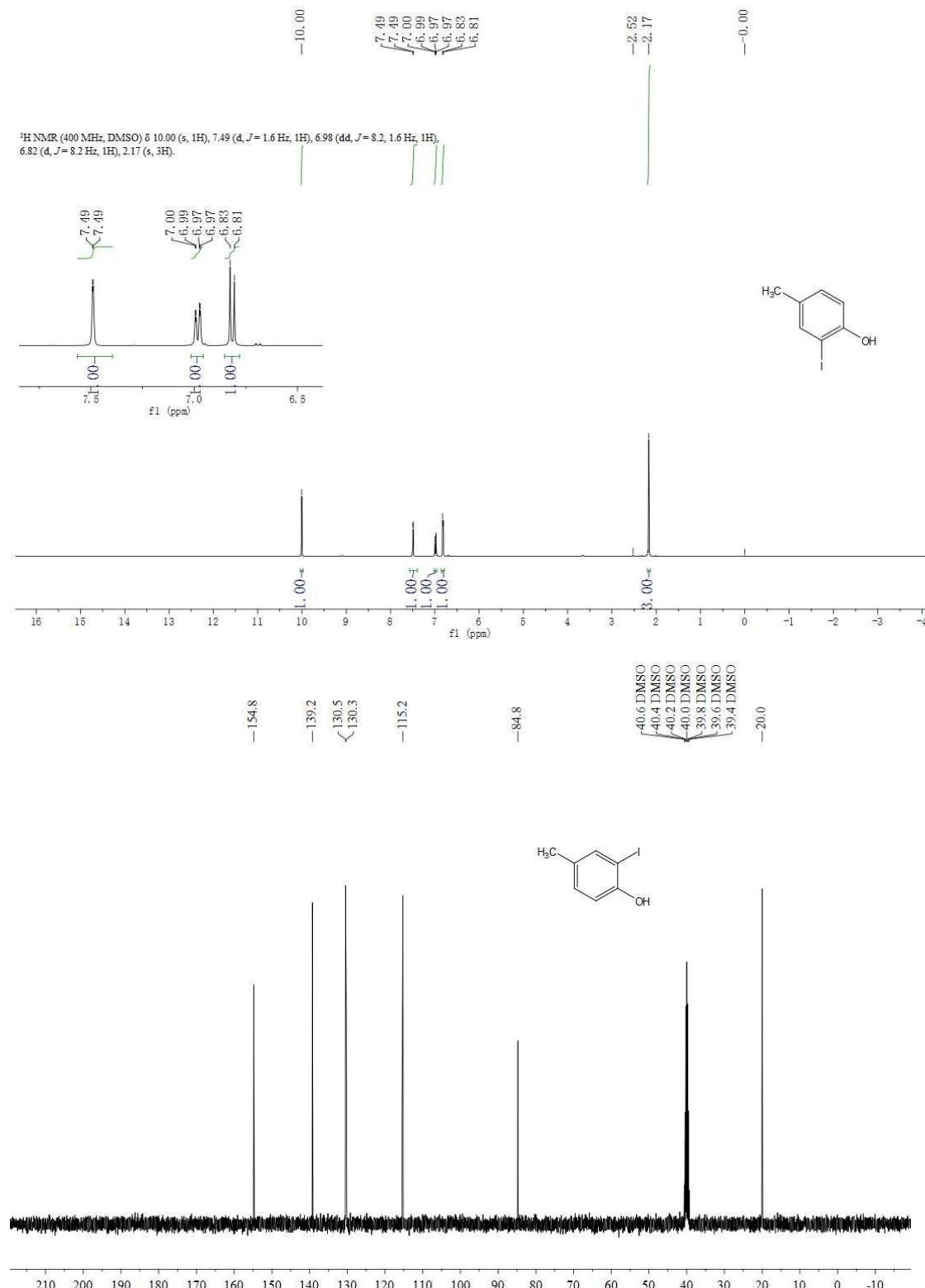


Fig. S1 NMR spectra of **1b**

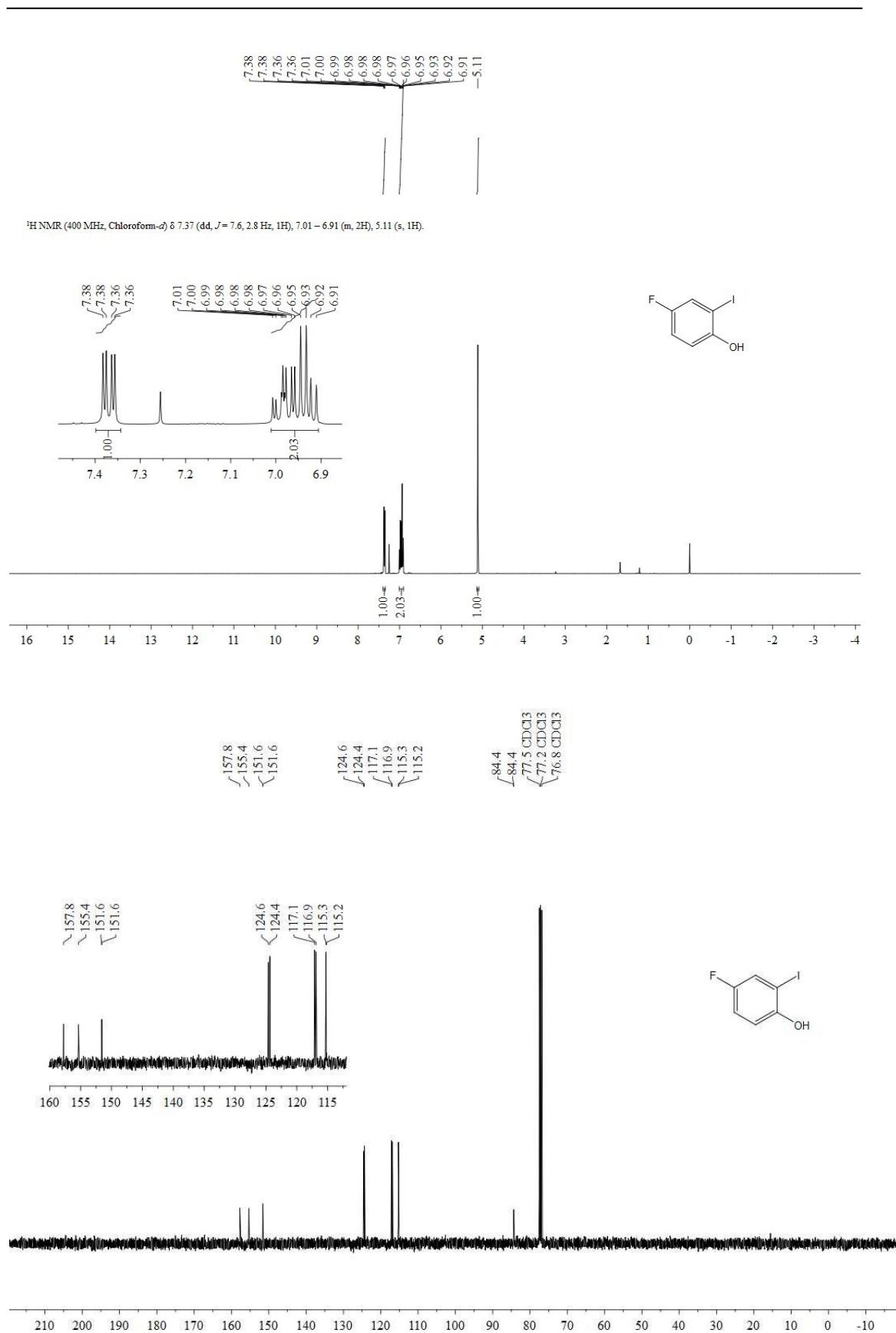


Fig. S2 NMR spectra of **1c**

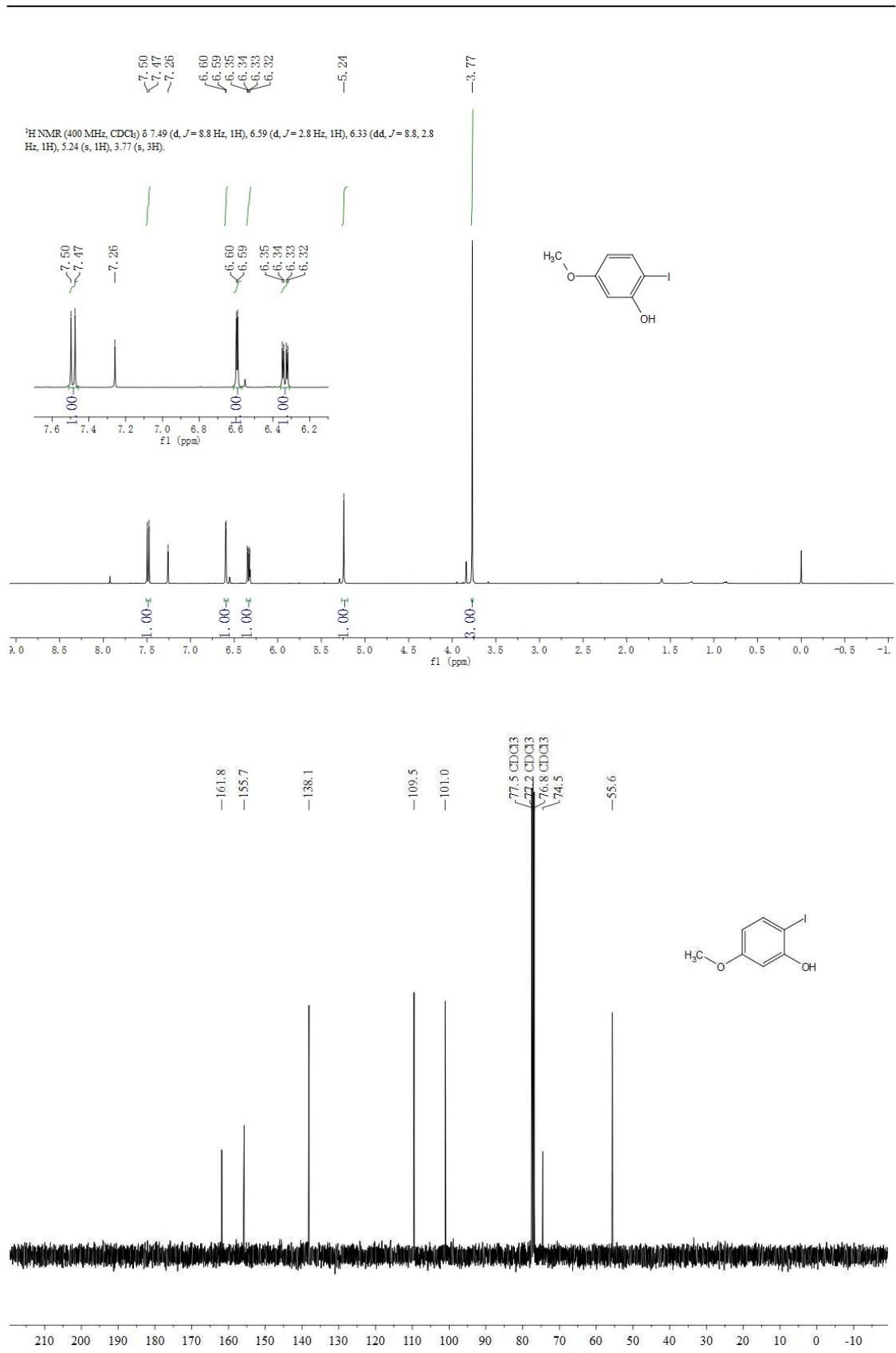


Fig. S3 NMR spectra of **1d**

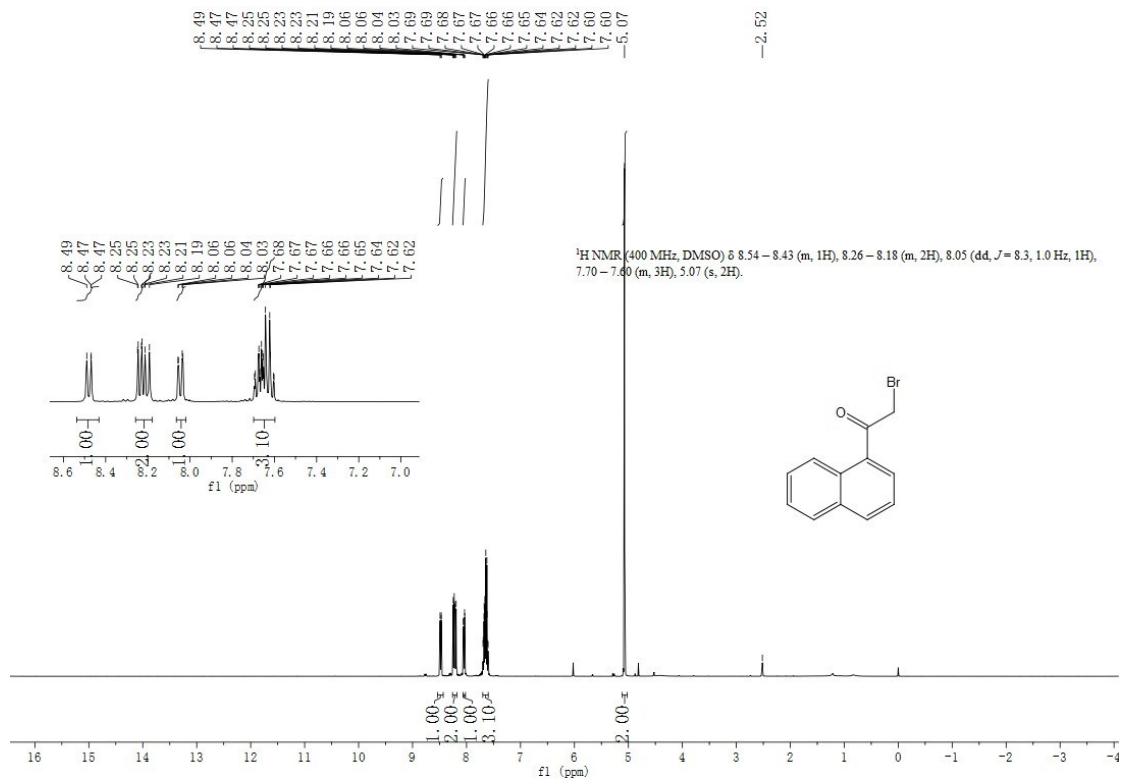


Fig. S4 NMR spectra of **2b**

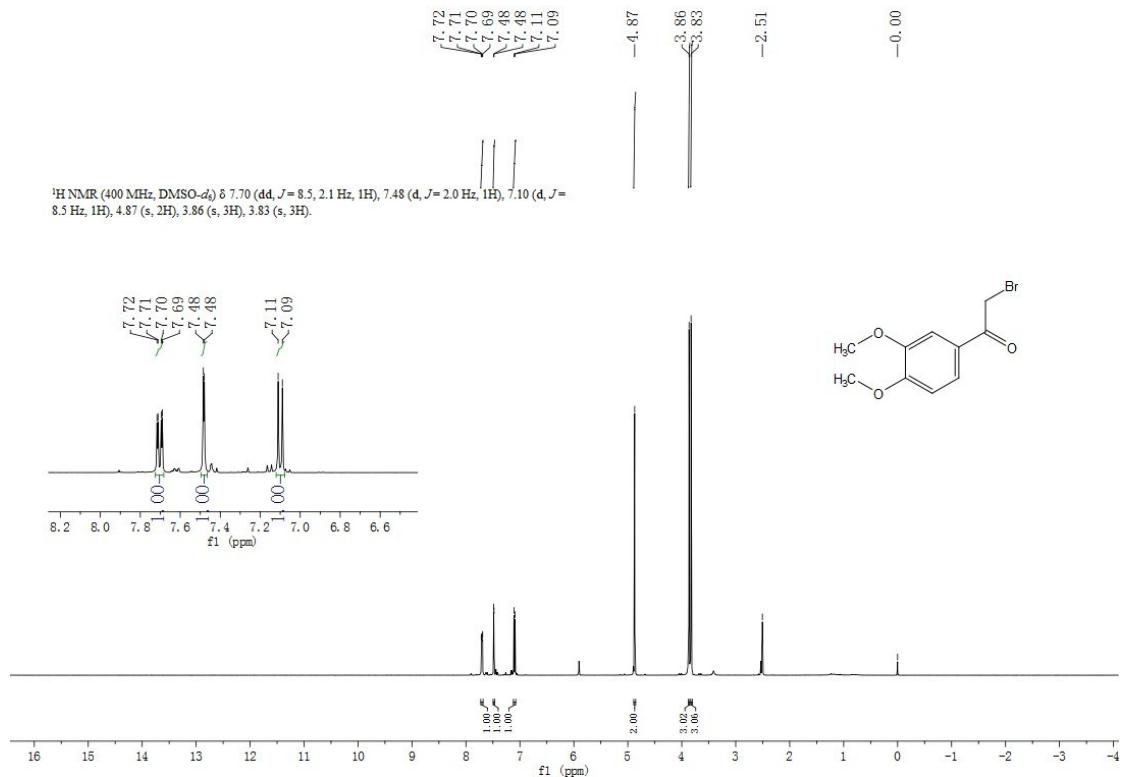


Fig. S5 NMR spectra of **2c**

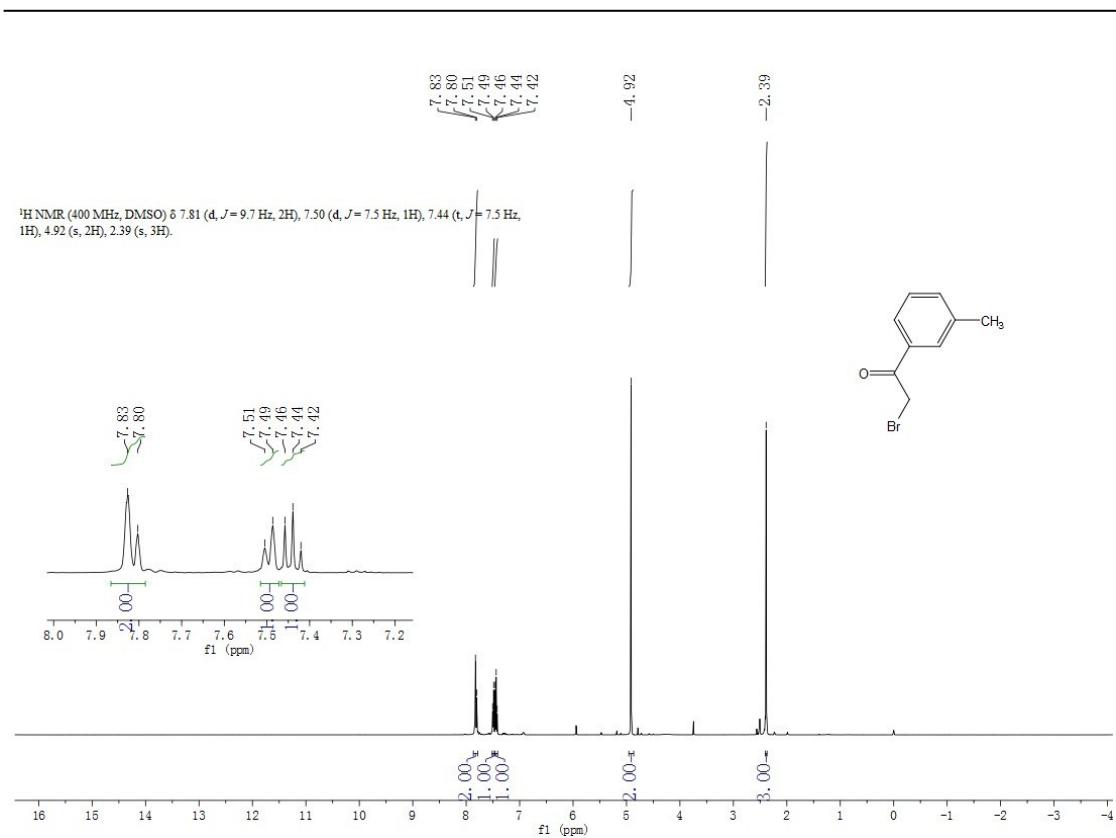


Fig. S6 NMR spectra of **2d**

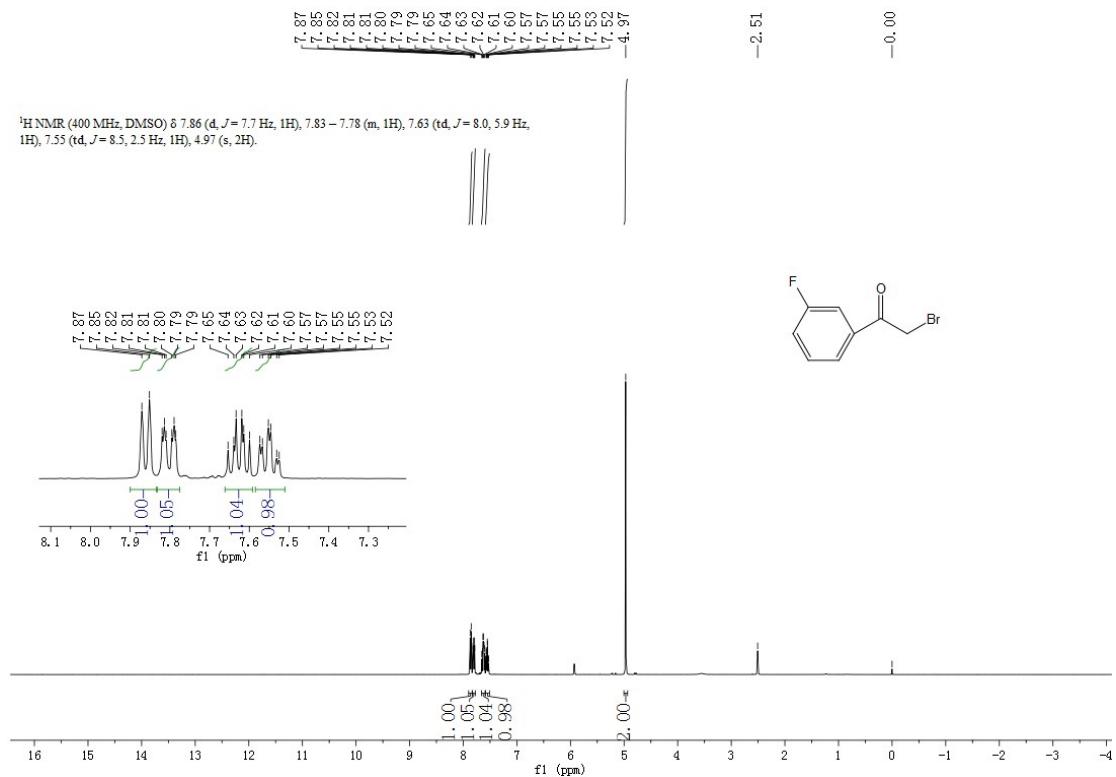


Fig. S7 NMR spectra of **2e**

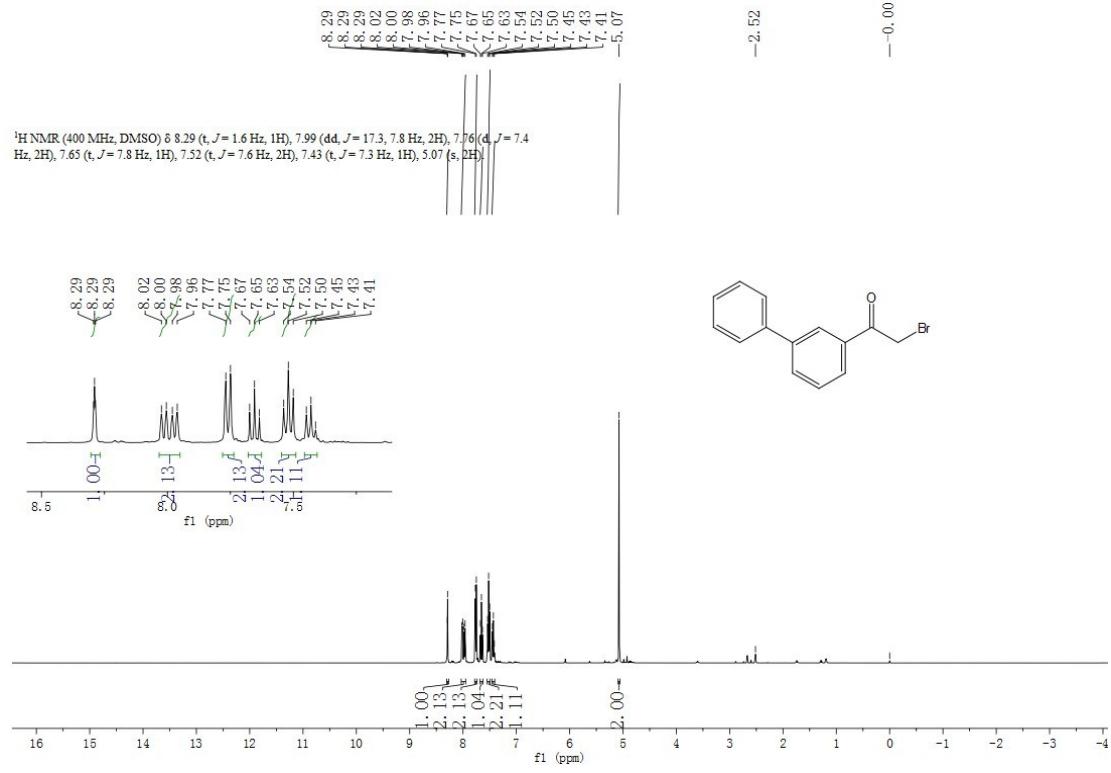


Fig. S8 NMR spectra of **2f**

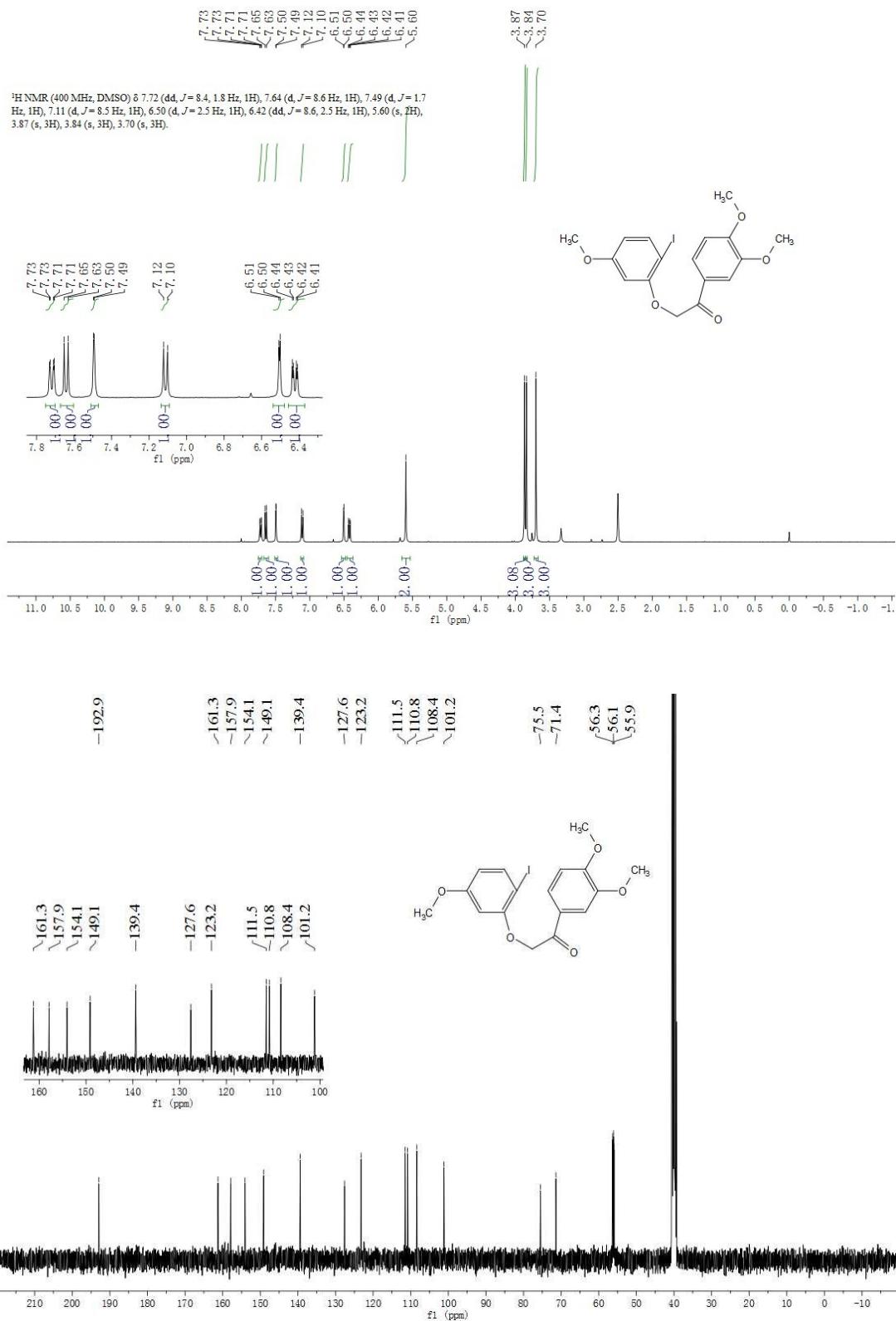


Fig. S9 NMR spectra of 3a

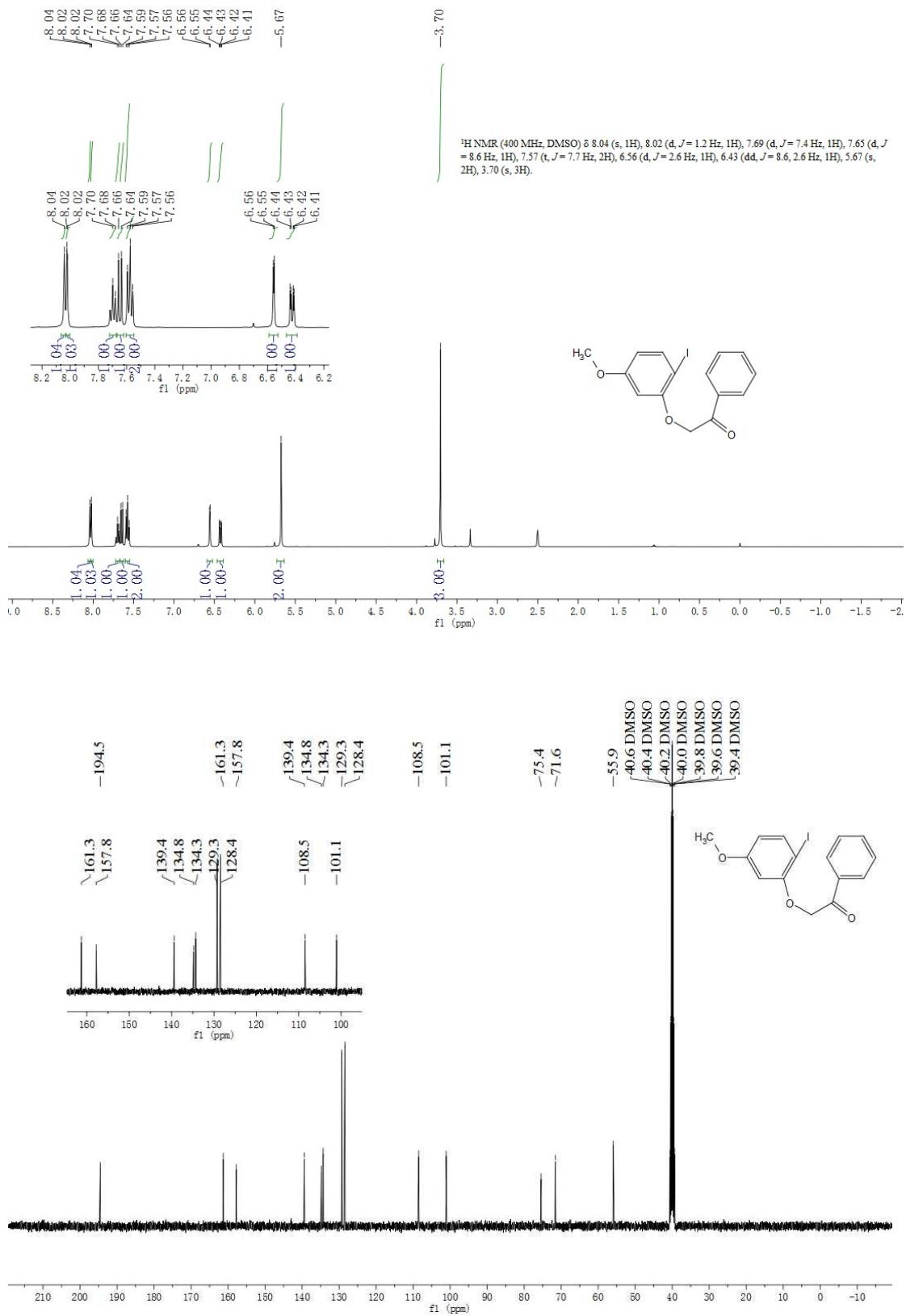


Fig. S10 NMR spectra of **3b**

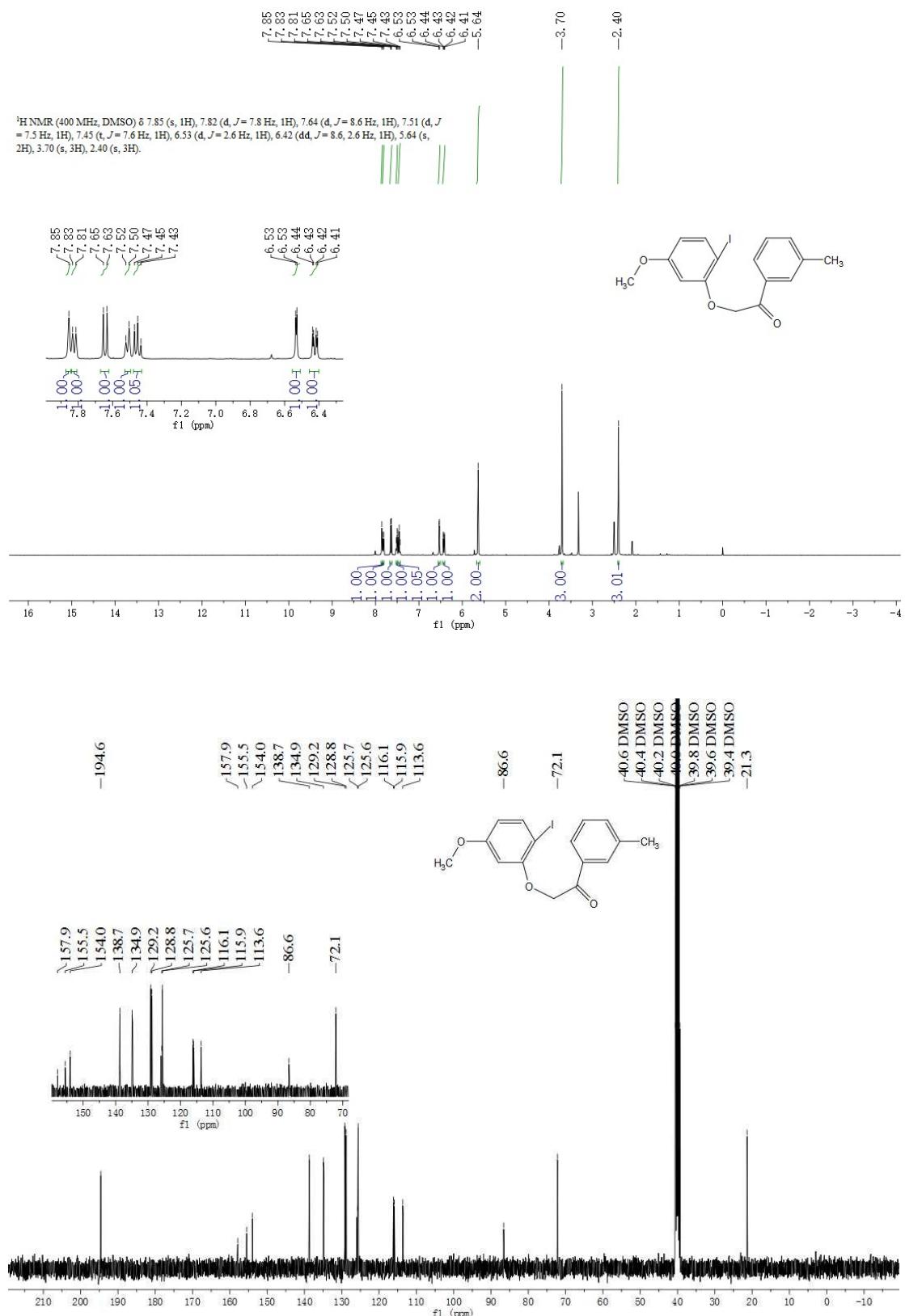


Fig. S11 NMR spectra of **3c**

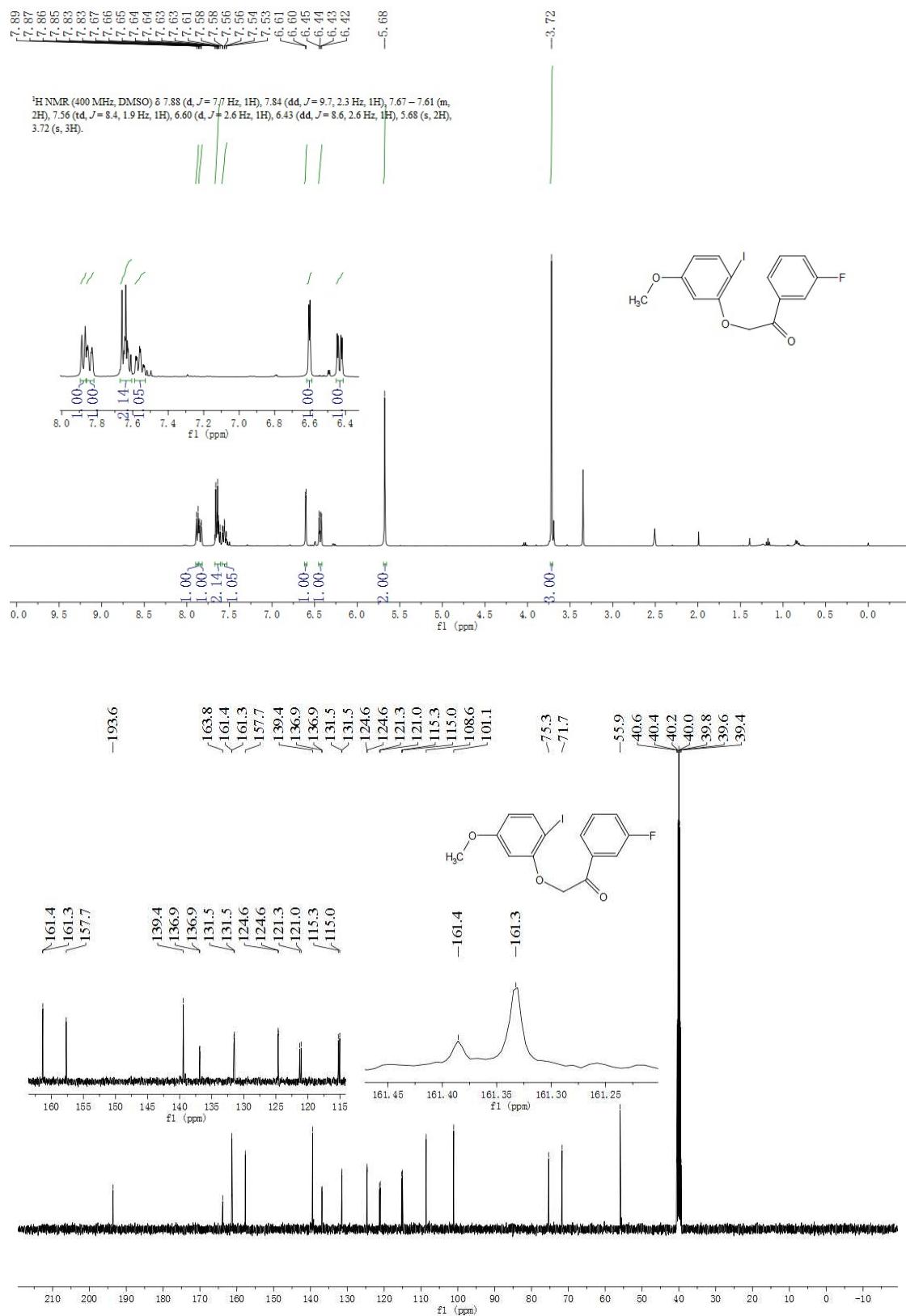


Fig. S12 NMR spectra of **3d**

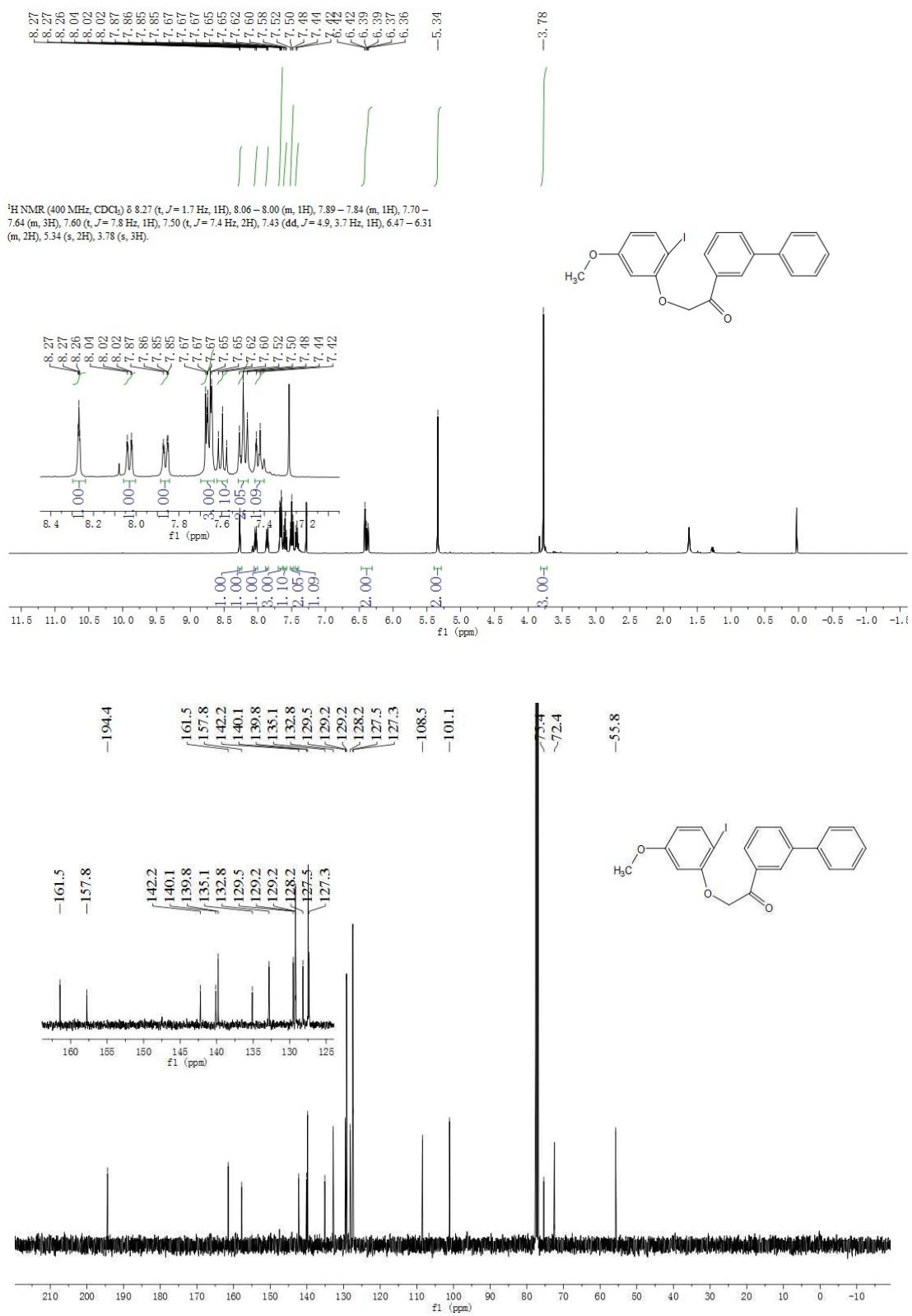


Fig. S13 NMR spectra of **3e**

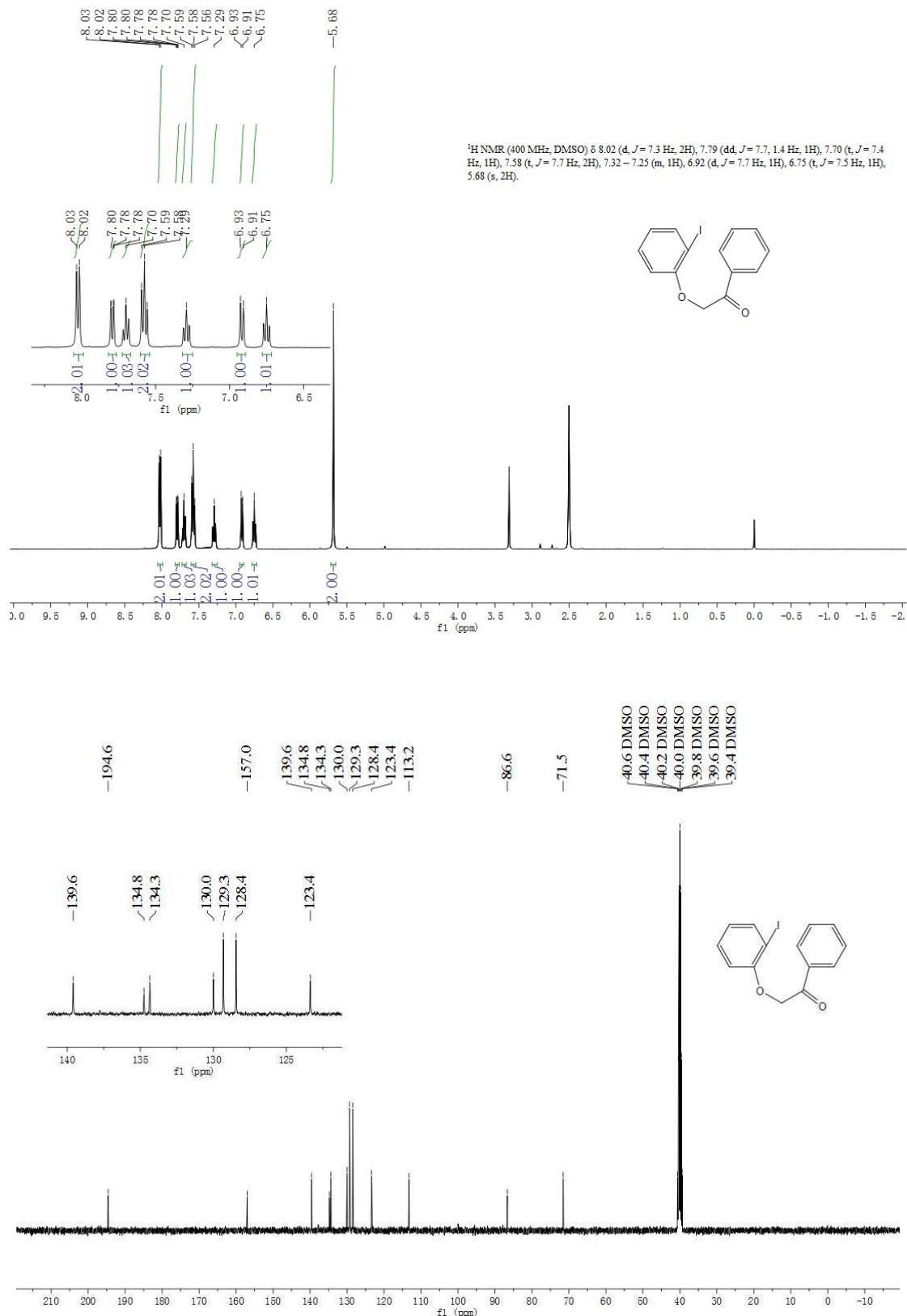


Fig. S14 NMR spectra of **3f**

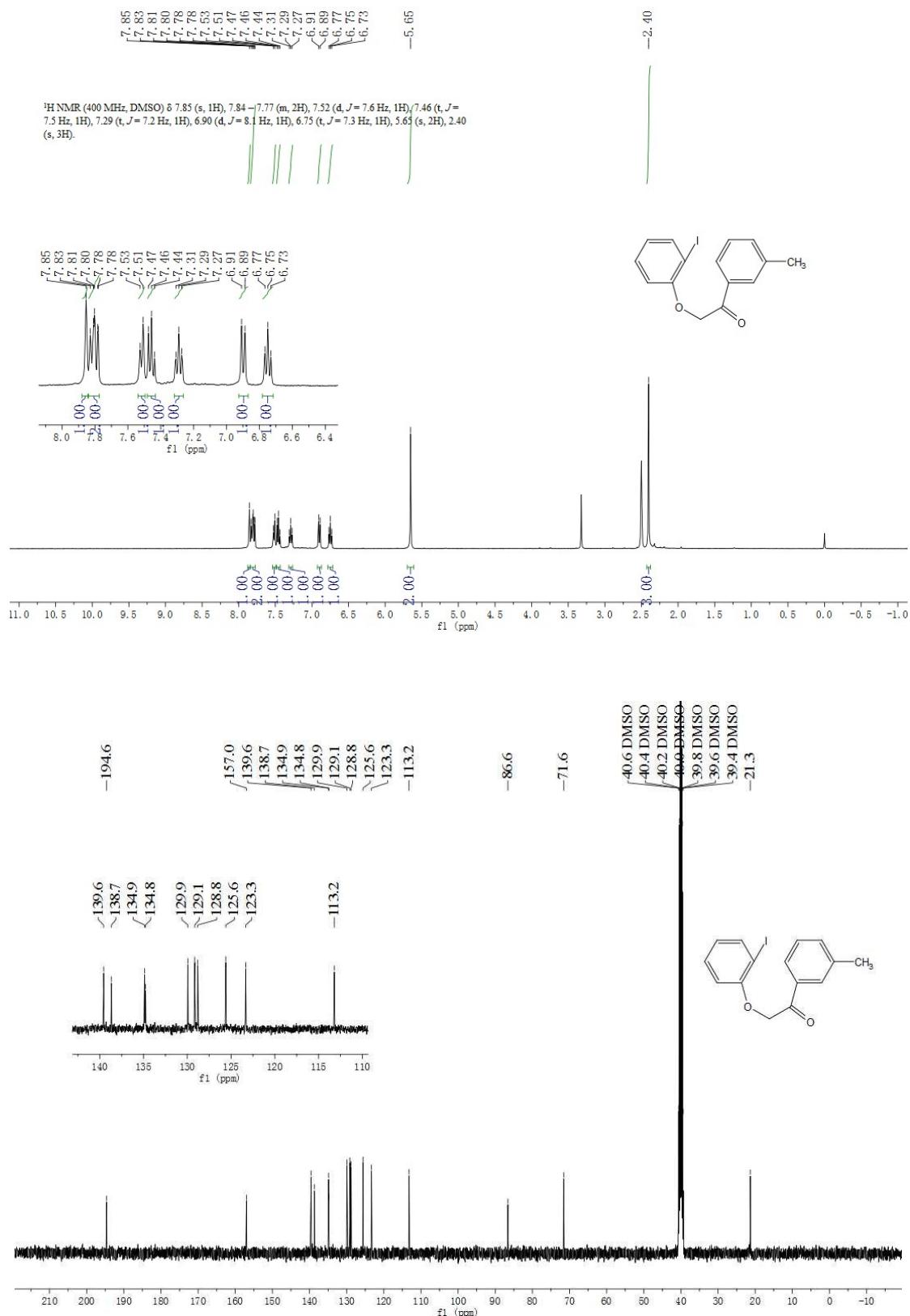


Fig. S15 NMR spectra of **3g**

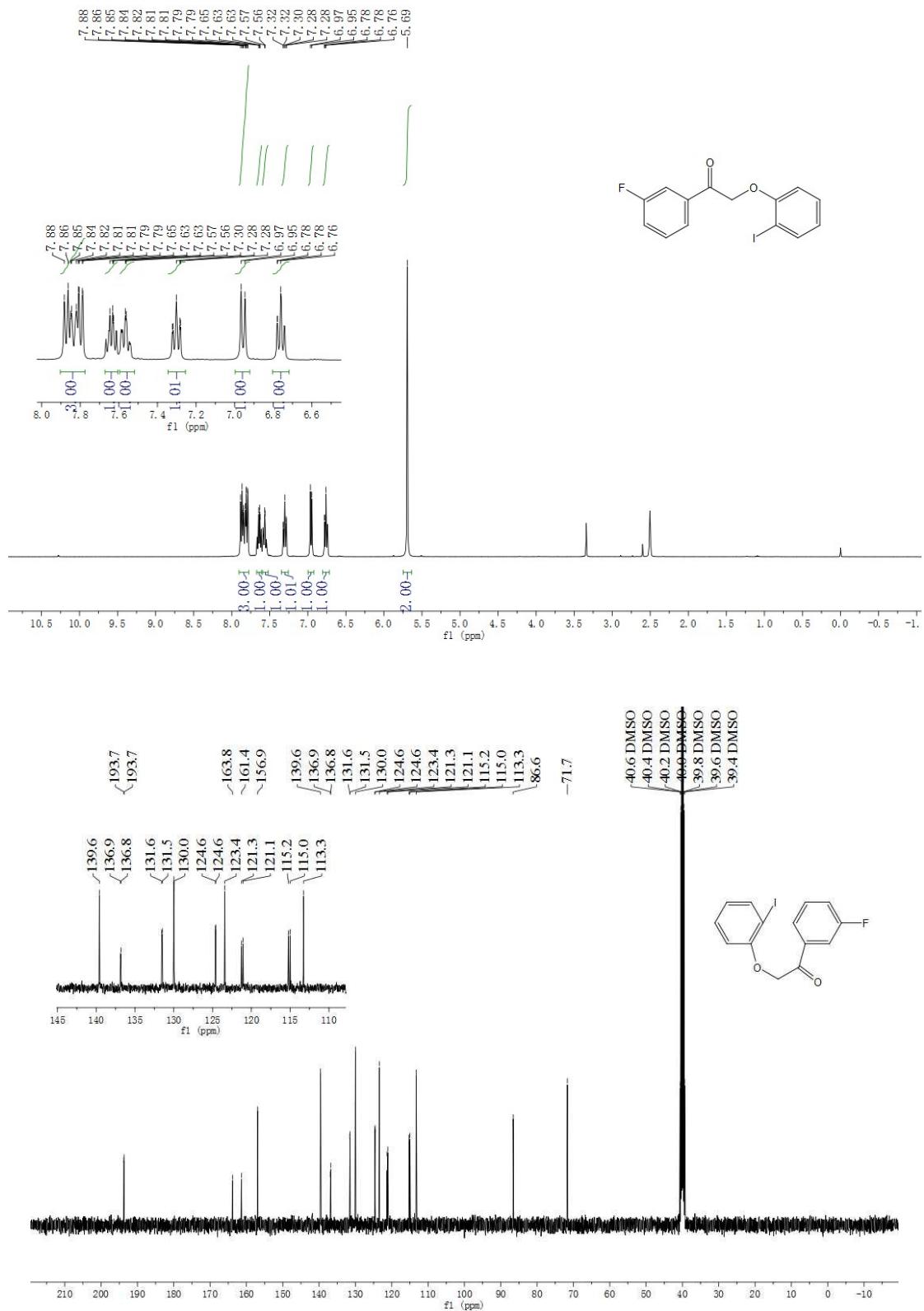


Fig. S16 NMR spectra of **3h**

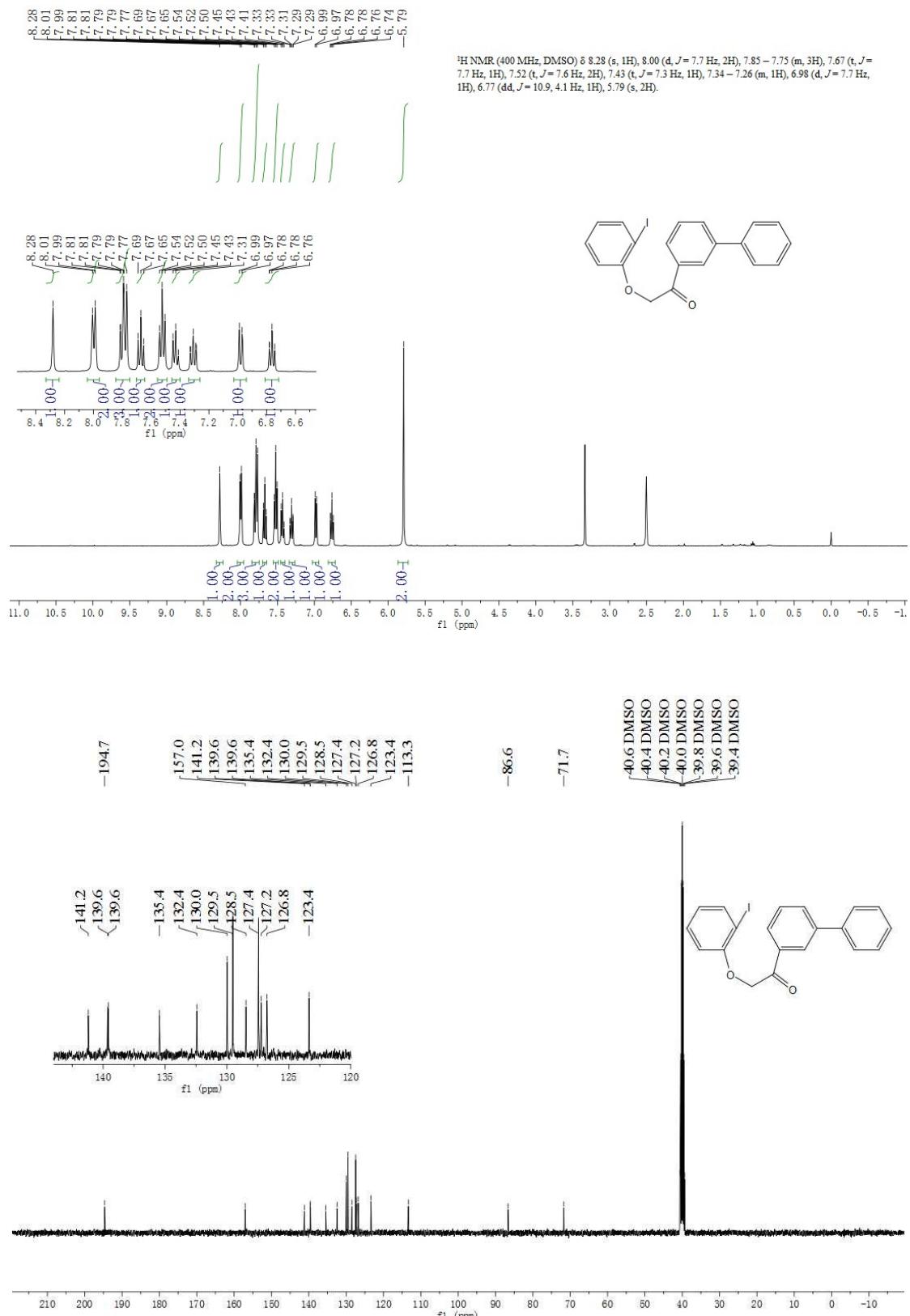
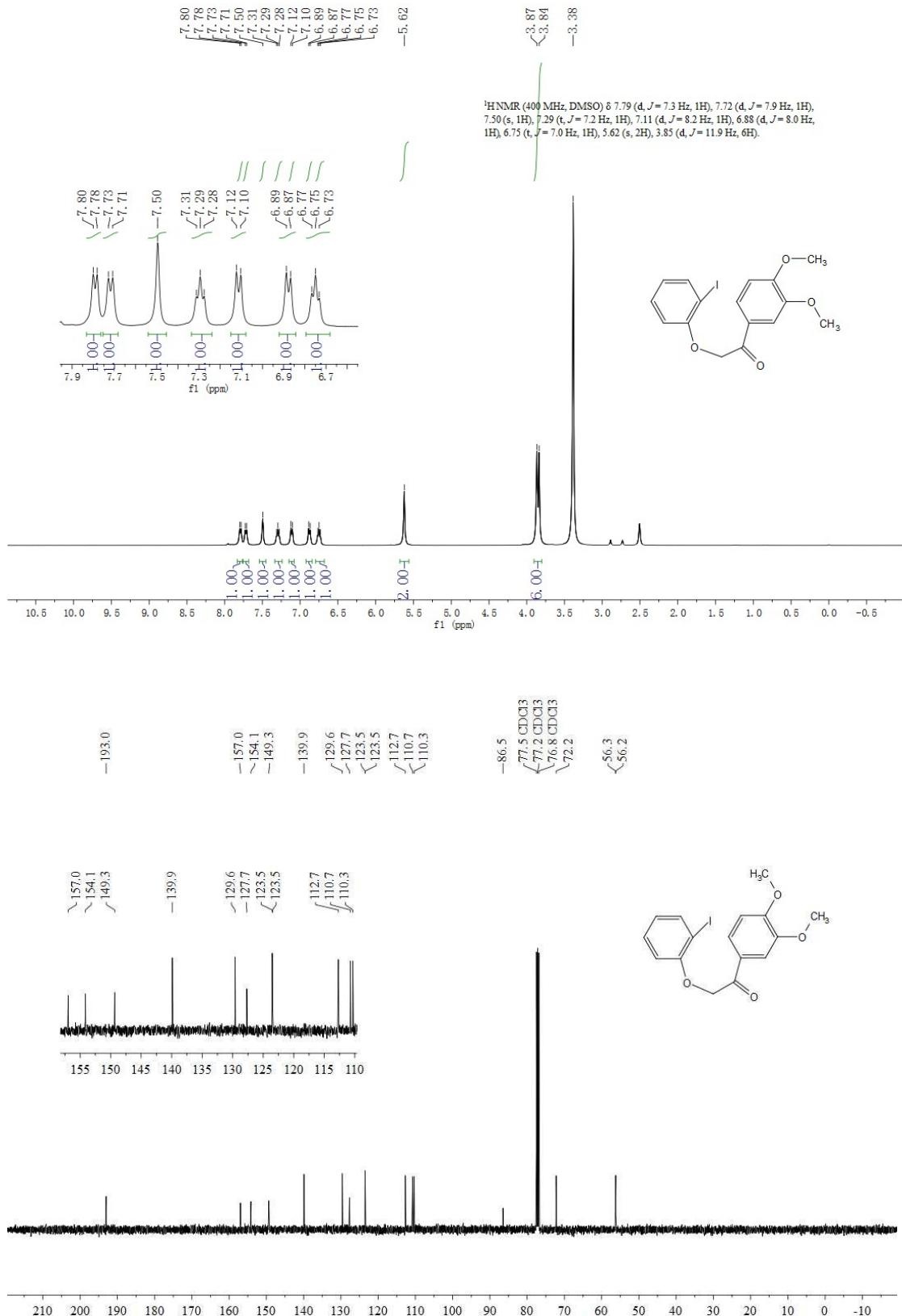


Fig. S17 NMR spectra of **3i**



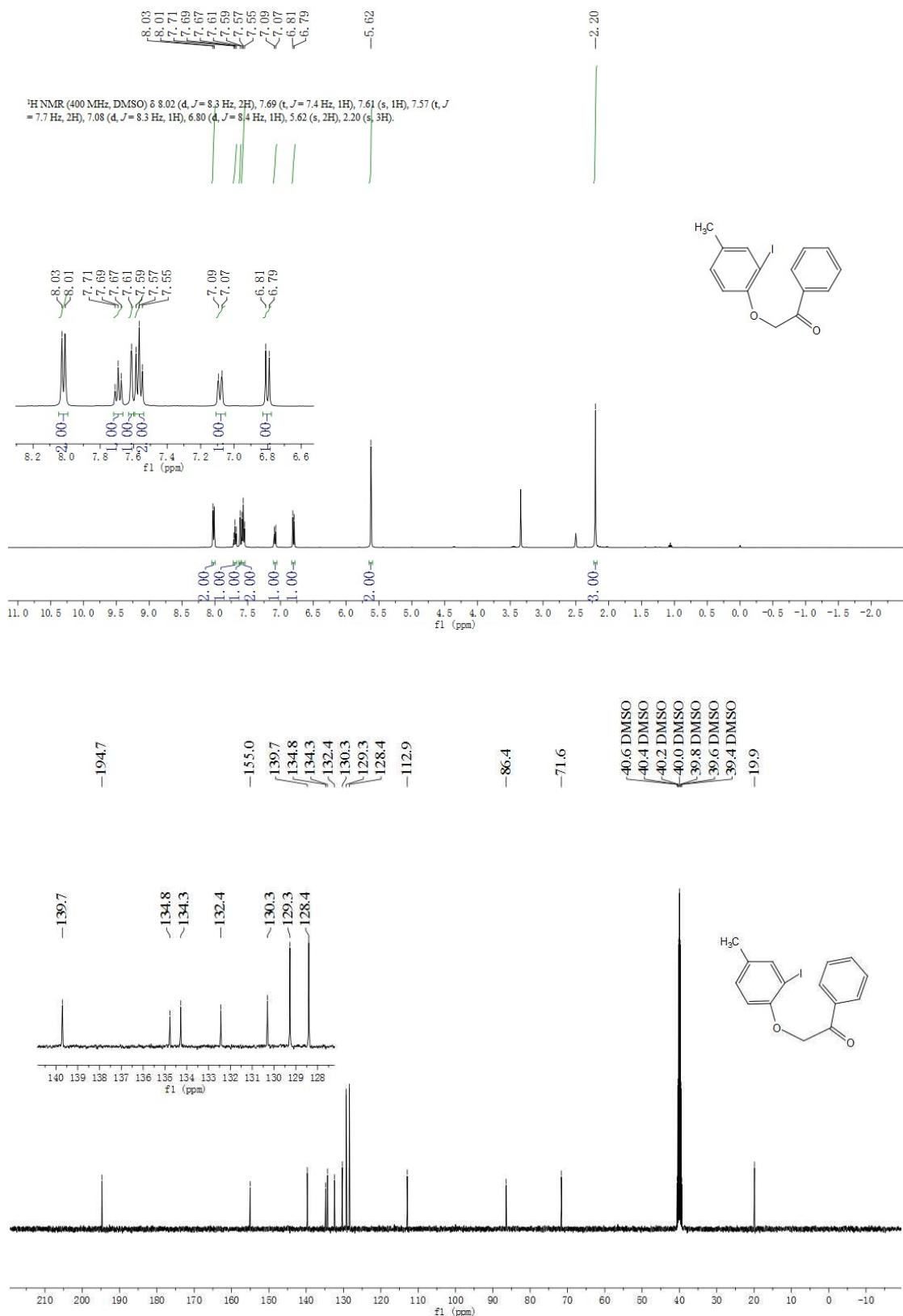


Fig. S19 NMR spectra of **3k**

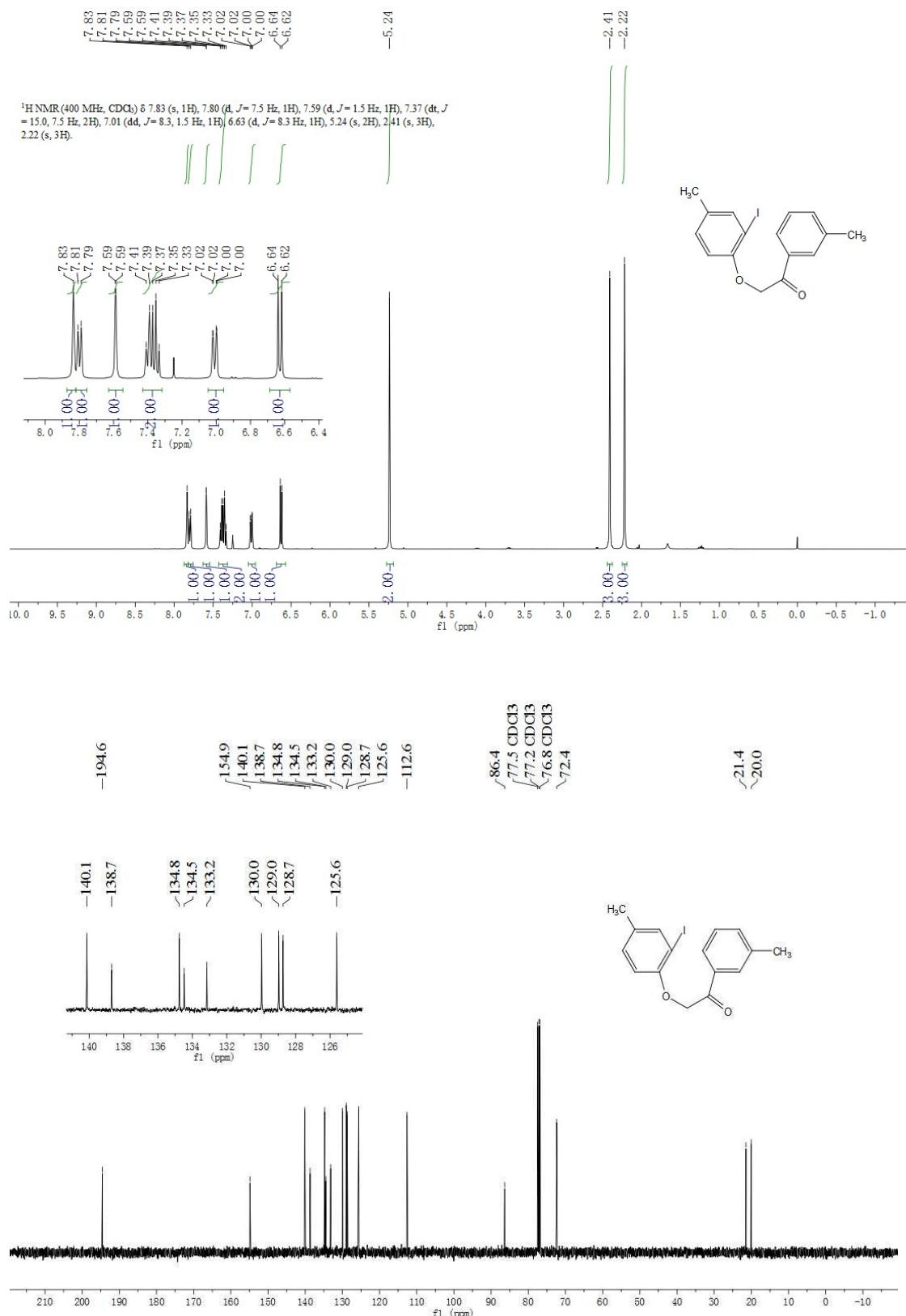


Fig. S20 NMR spectra of **3I**

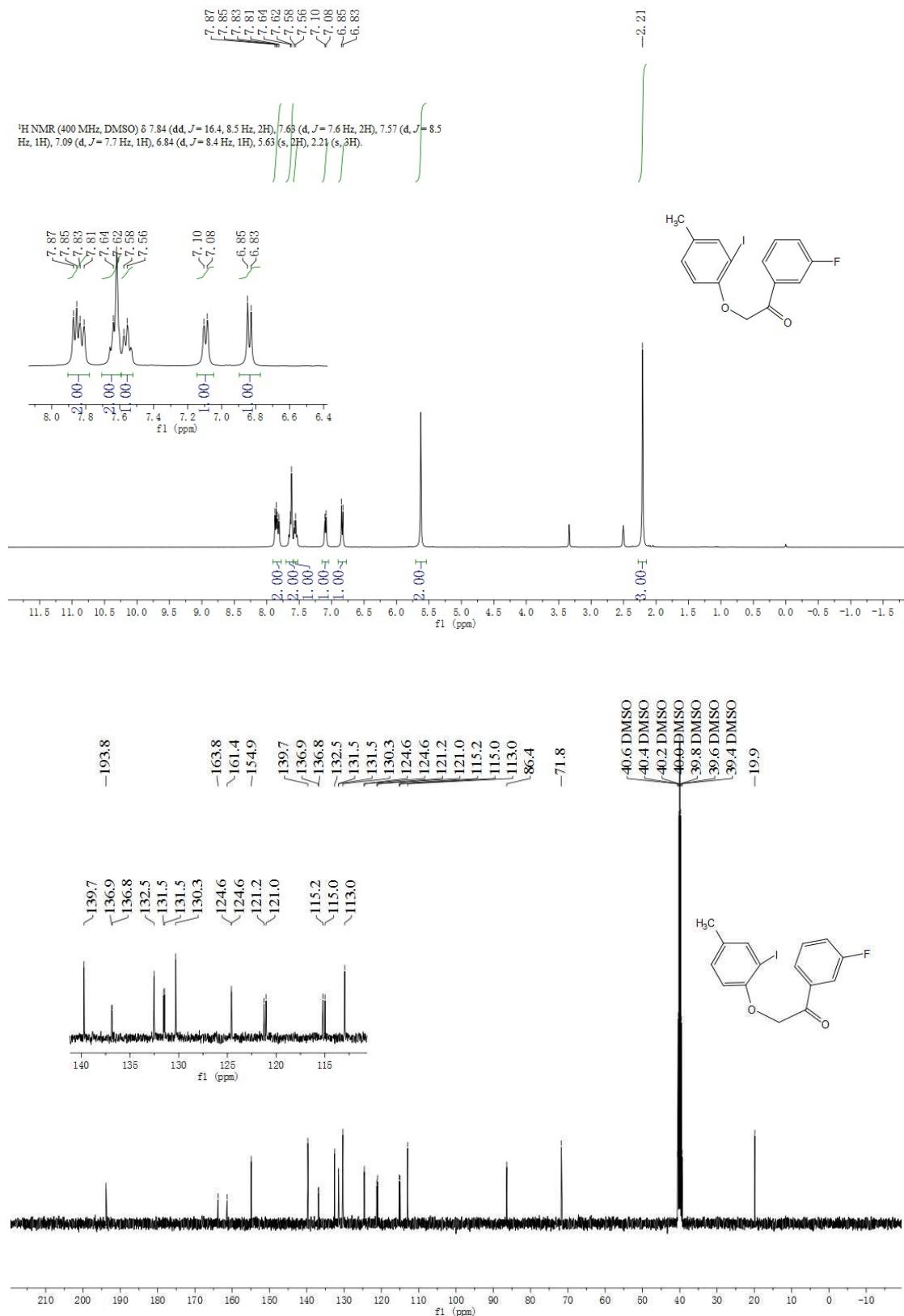


Fig. S21 NMR spectra of **3m**

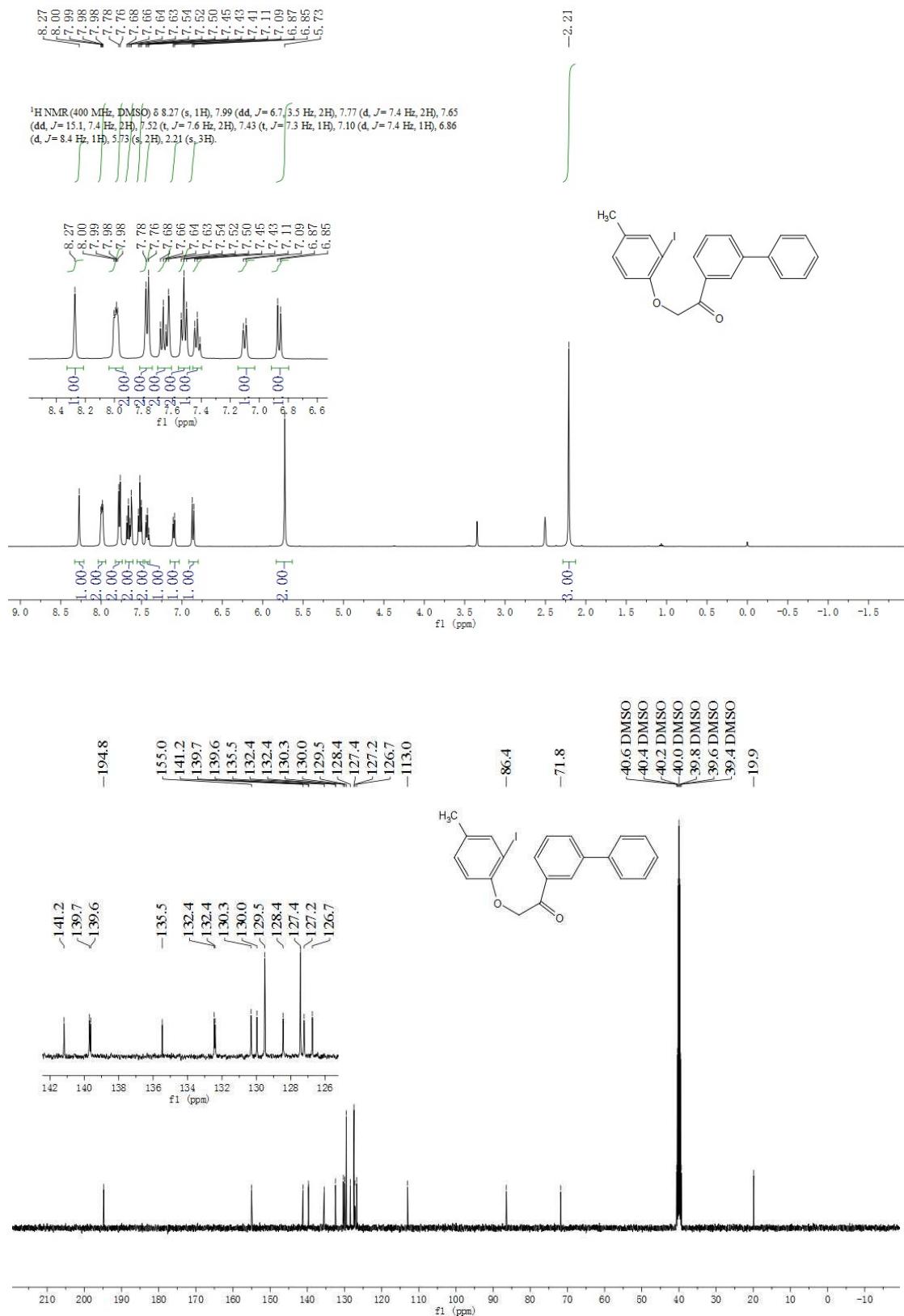


Fig. S22 NMR spectra of **3n**

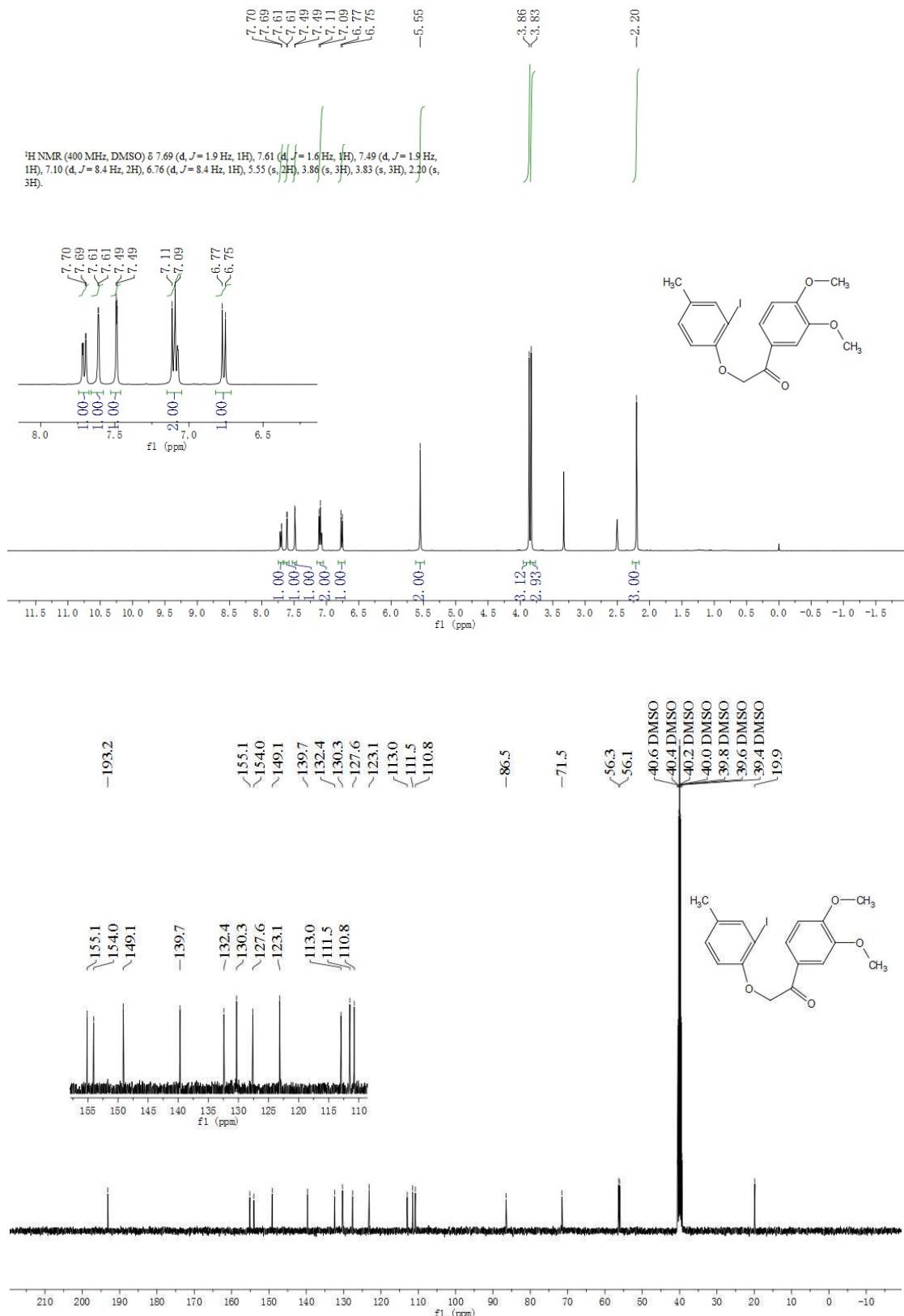


Fig. S23 NMR spectra of **3o**

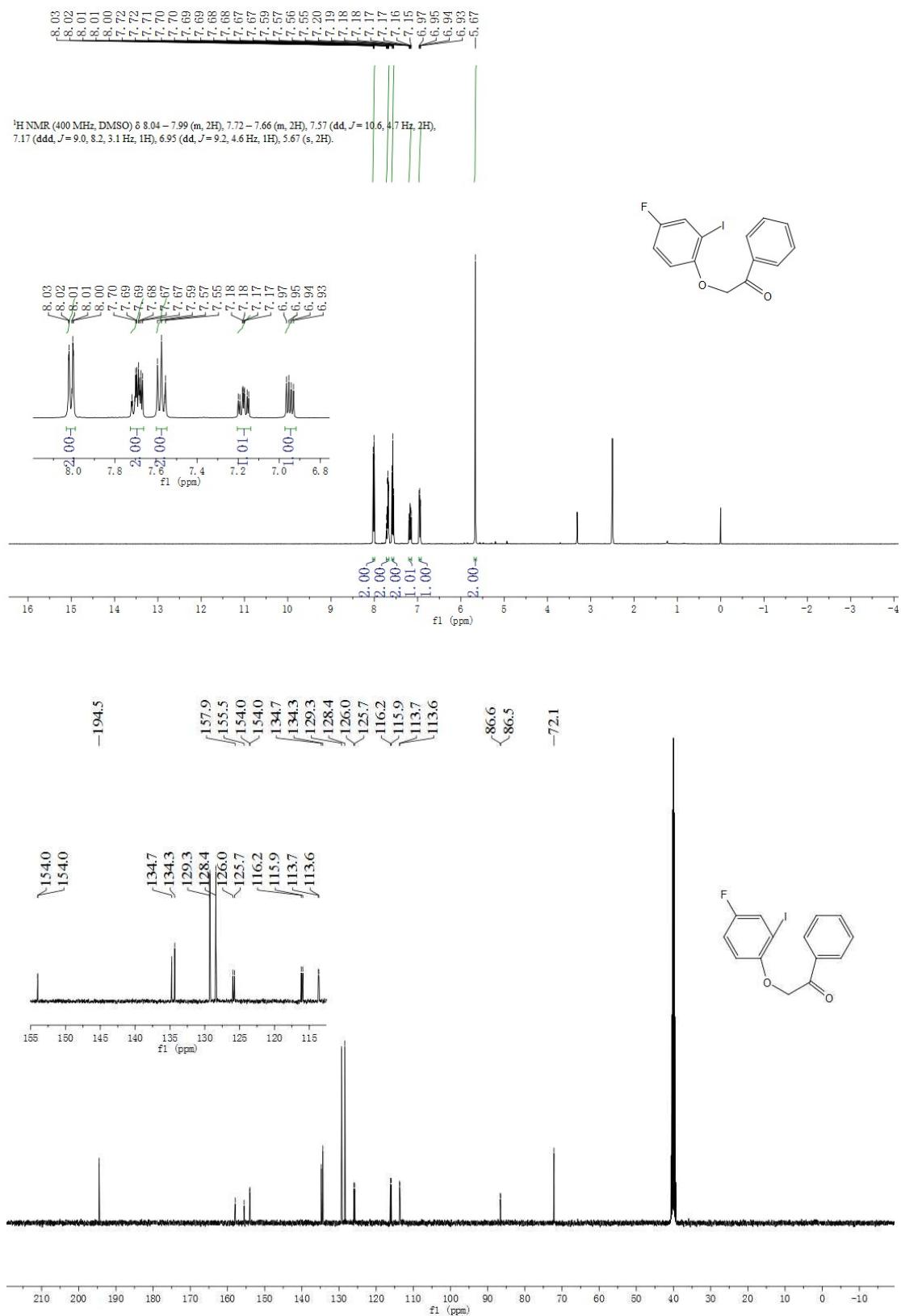


Fig. S24 NMR spectra of **3p**

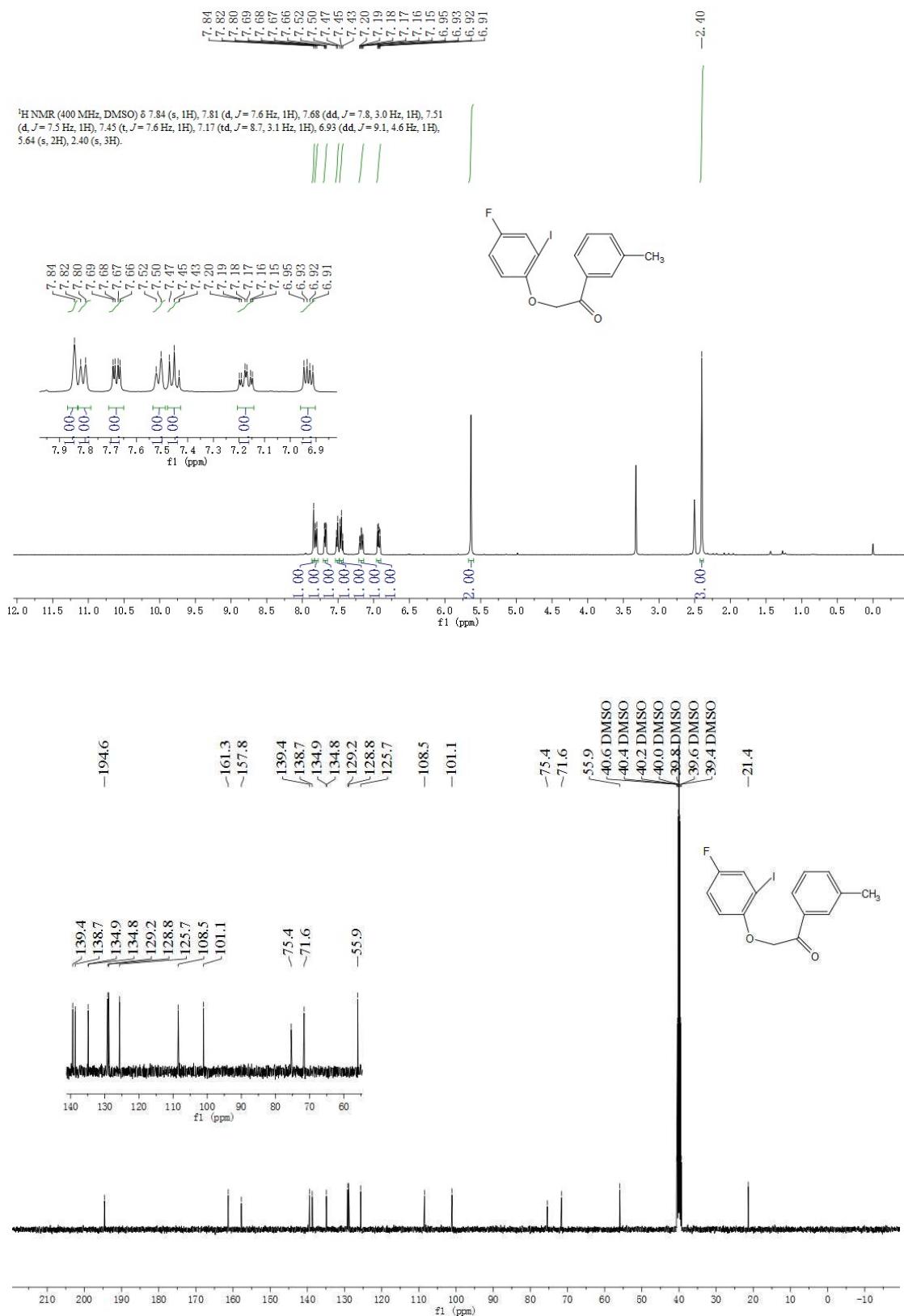


Fig. S25 NMR spectra of **3q**

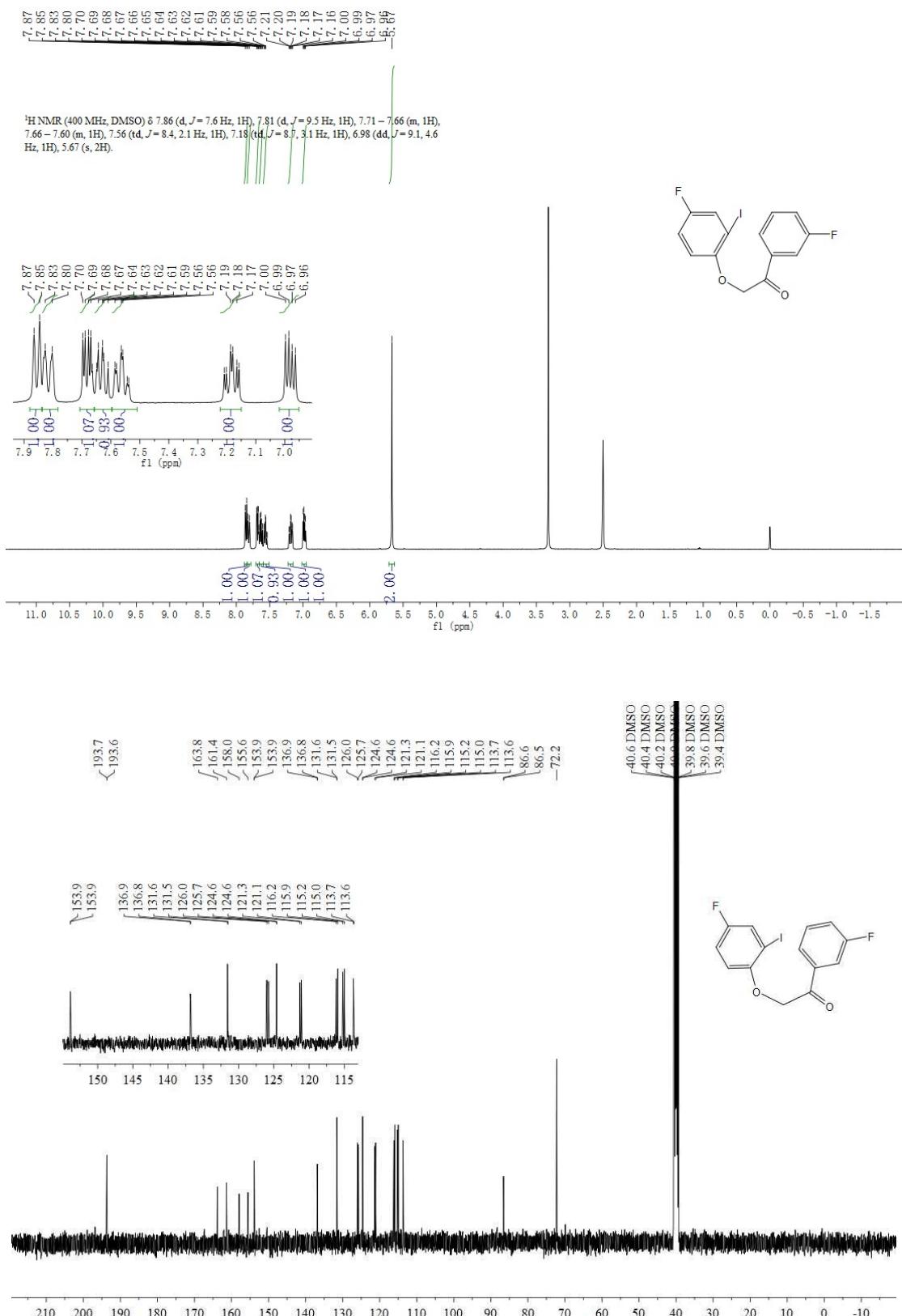


Fig. S26 NMR spectra of **3r**

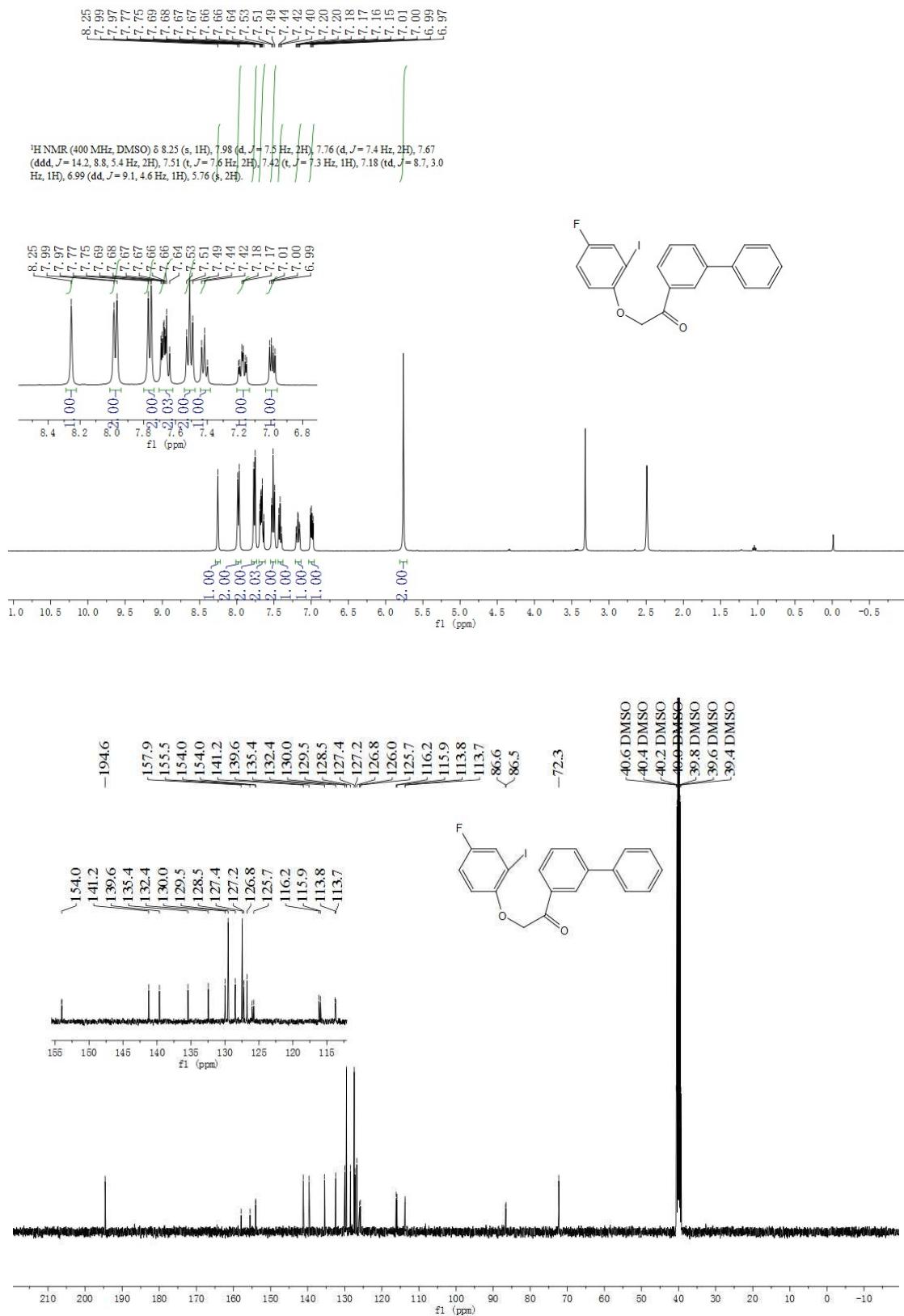


Fig. S27 NMR spectra of **3s**

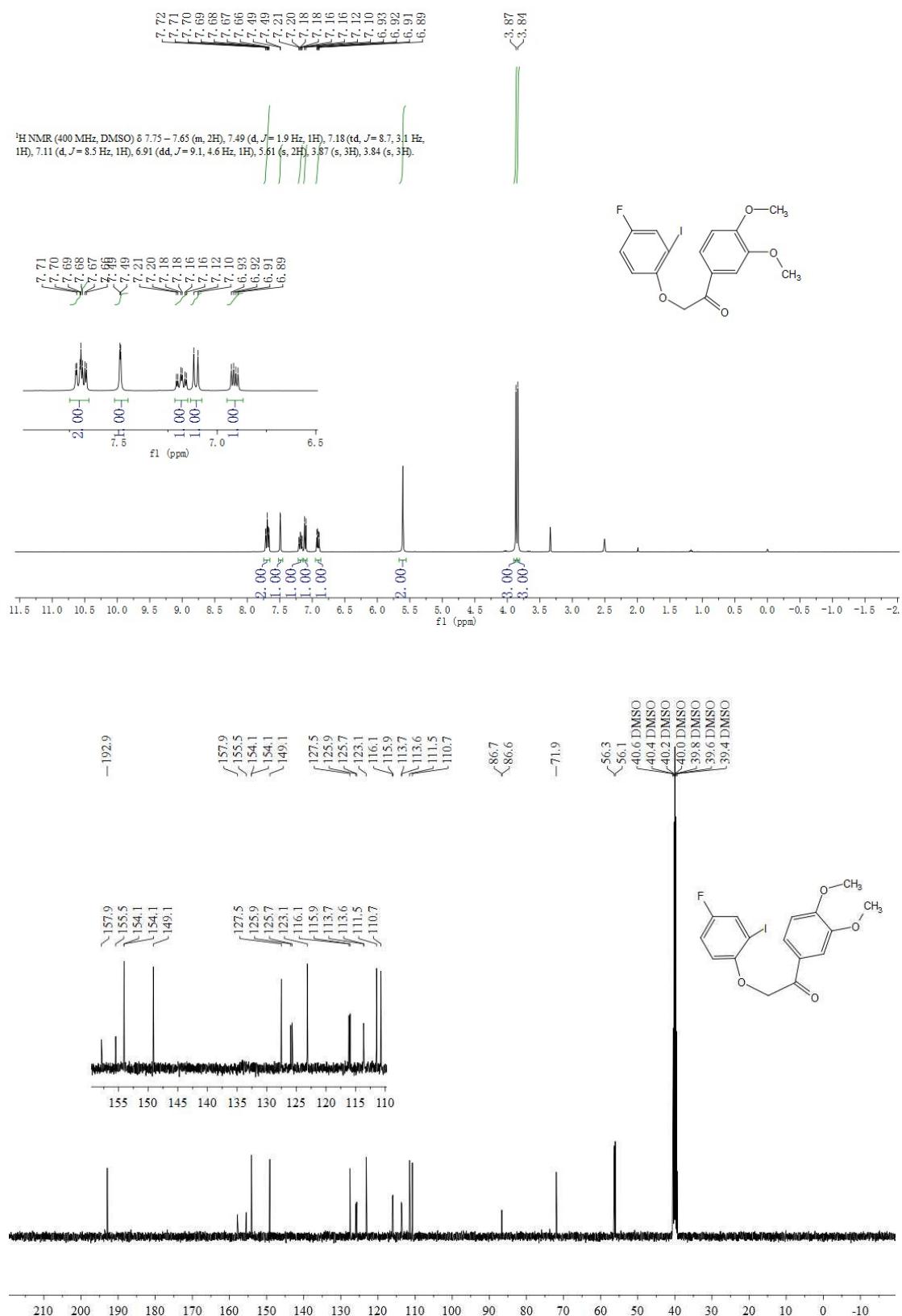


Fig. S28 NMR spectra of **3t**

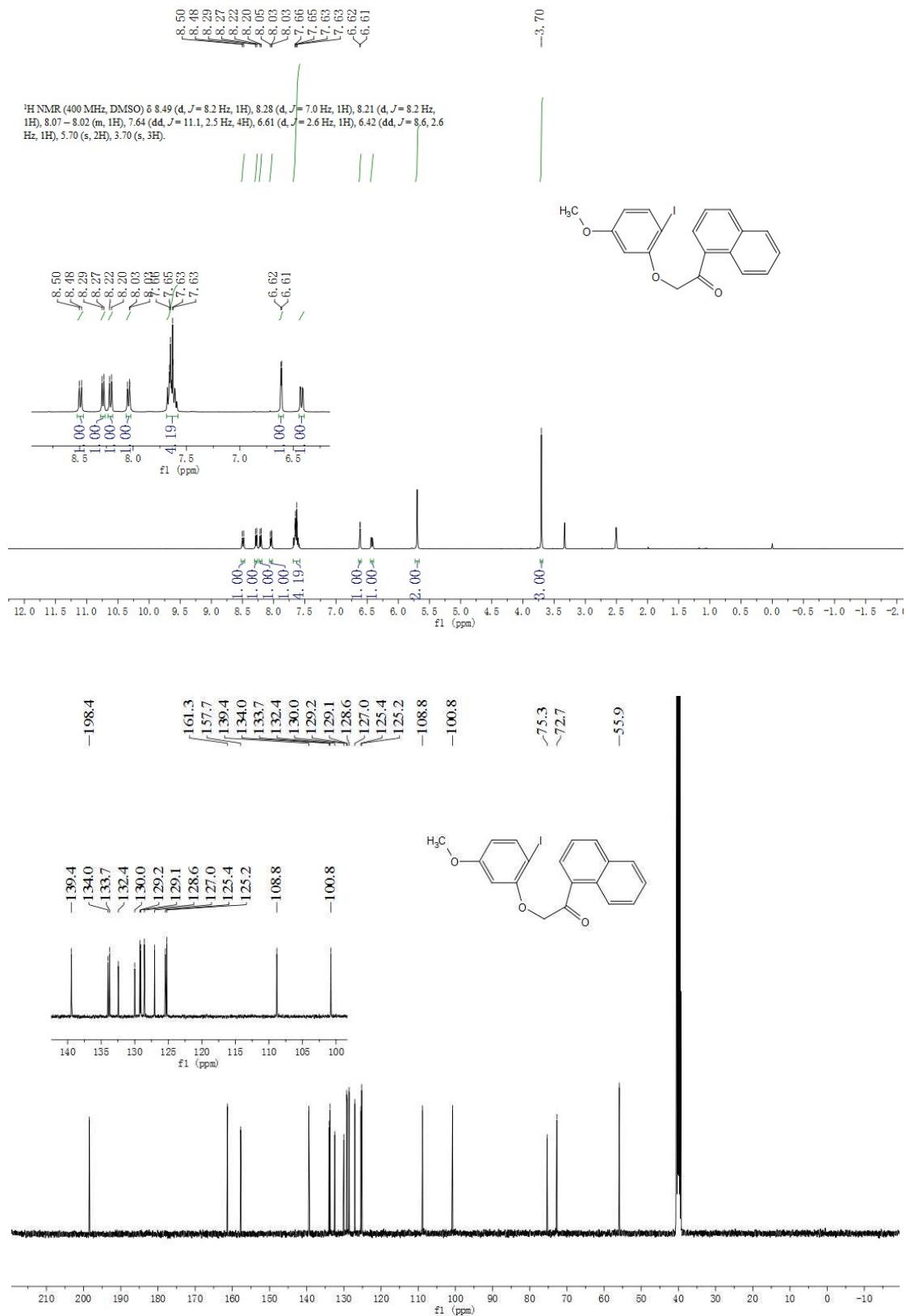


Fig. S29 NMR spectra of **3u**

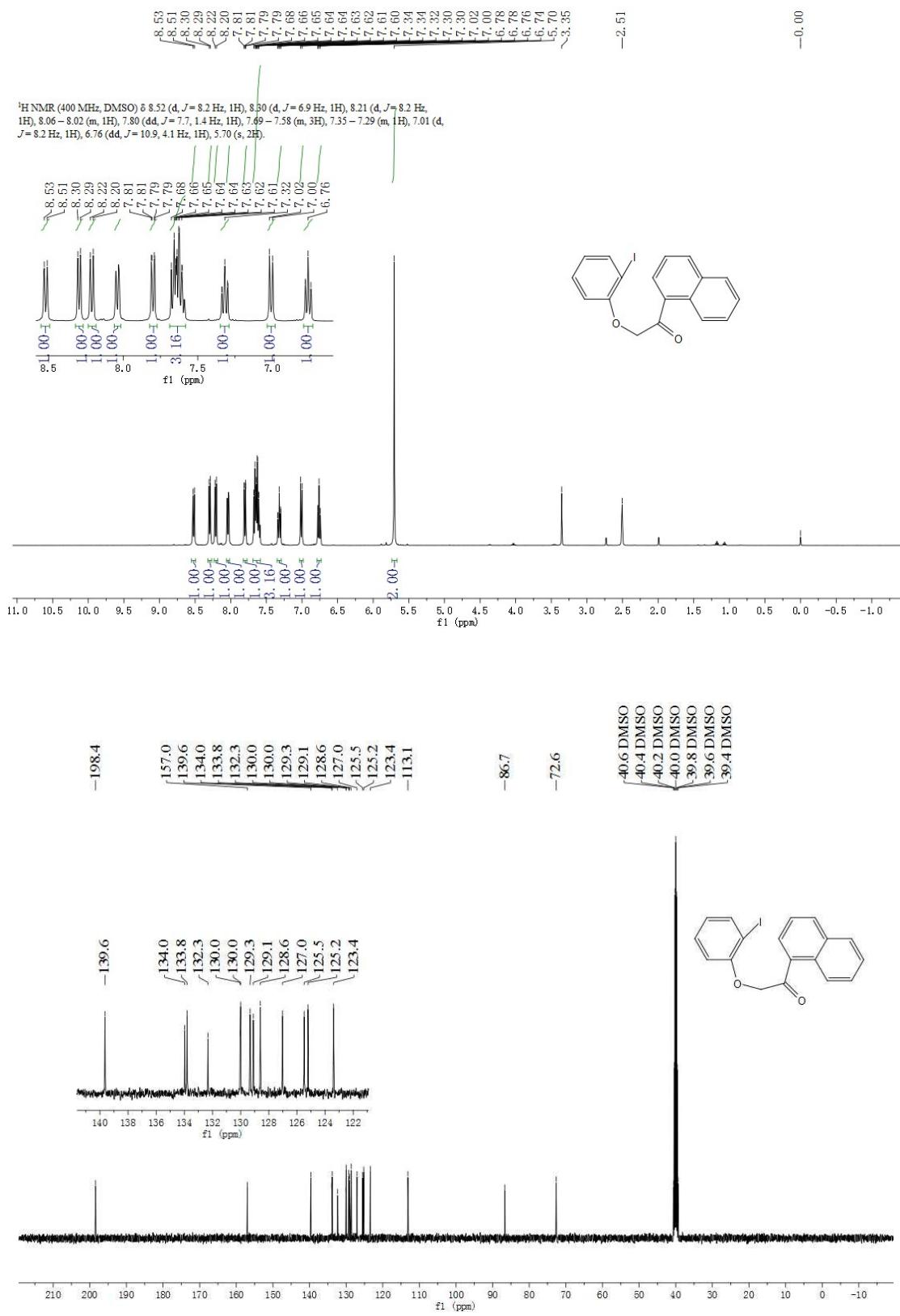


Fig. S30 NMR spectra of **3v**

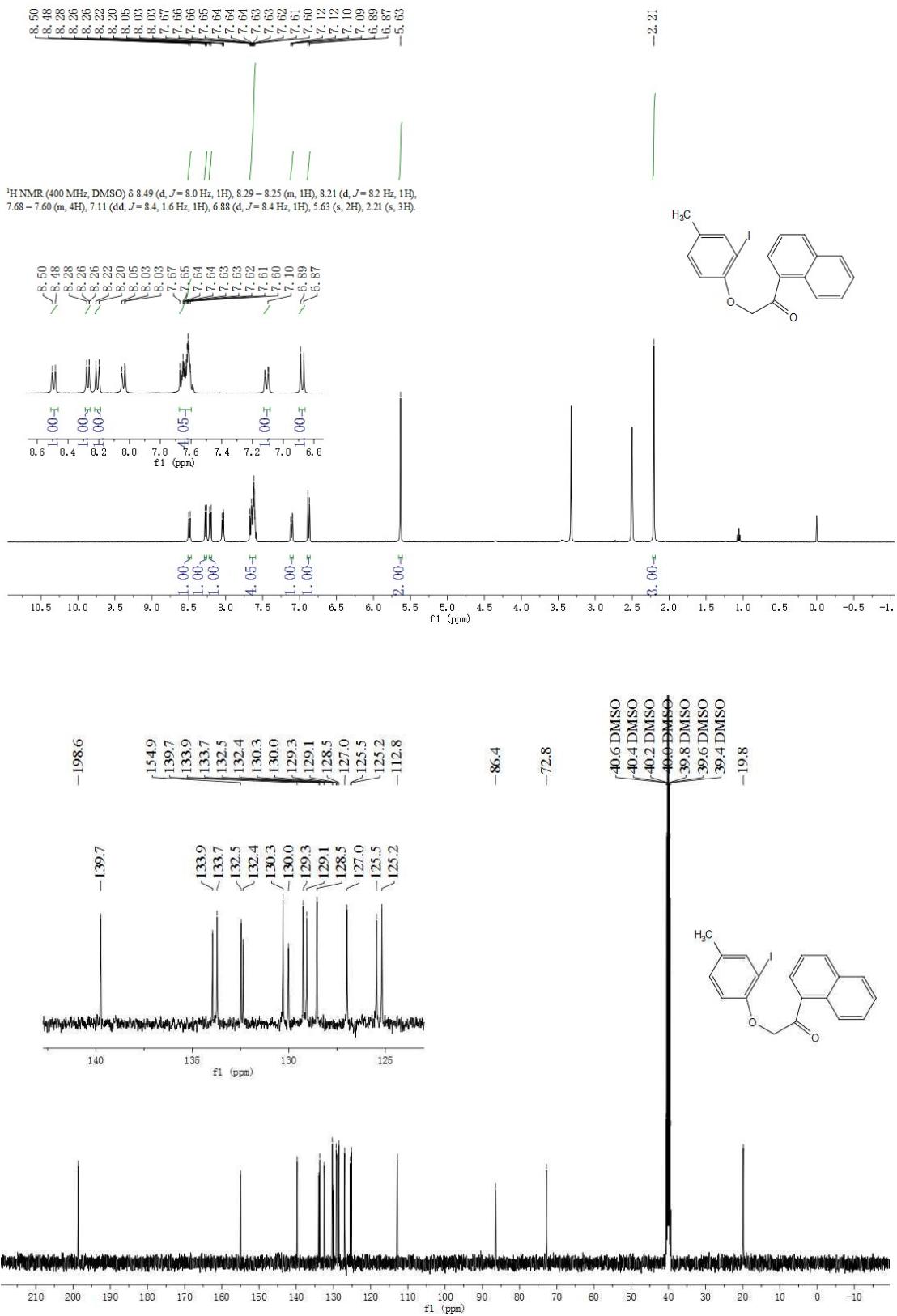


Fig. S31 NMR spectra of 3w

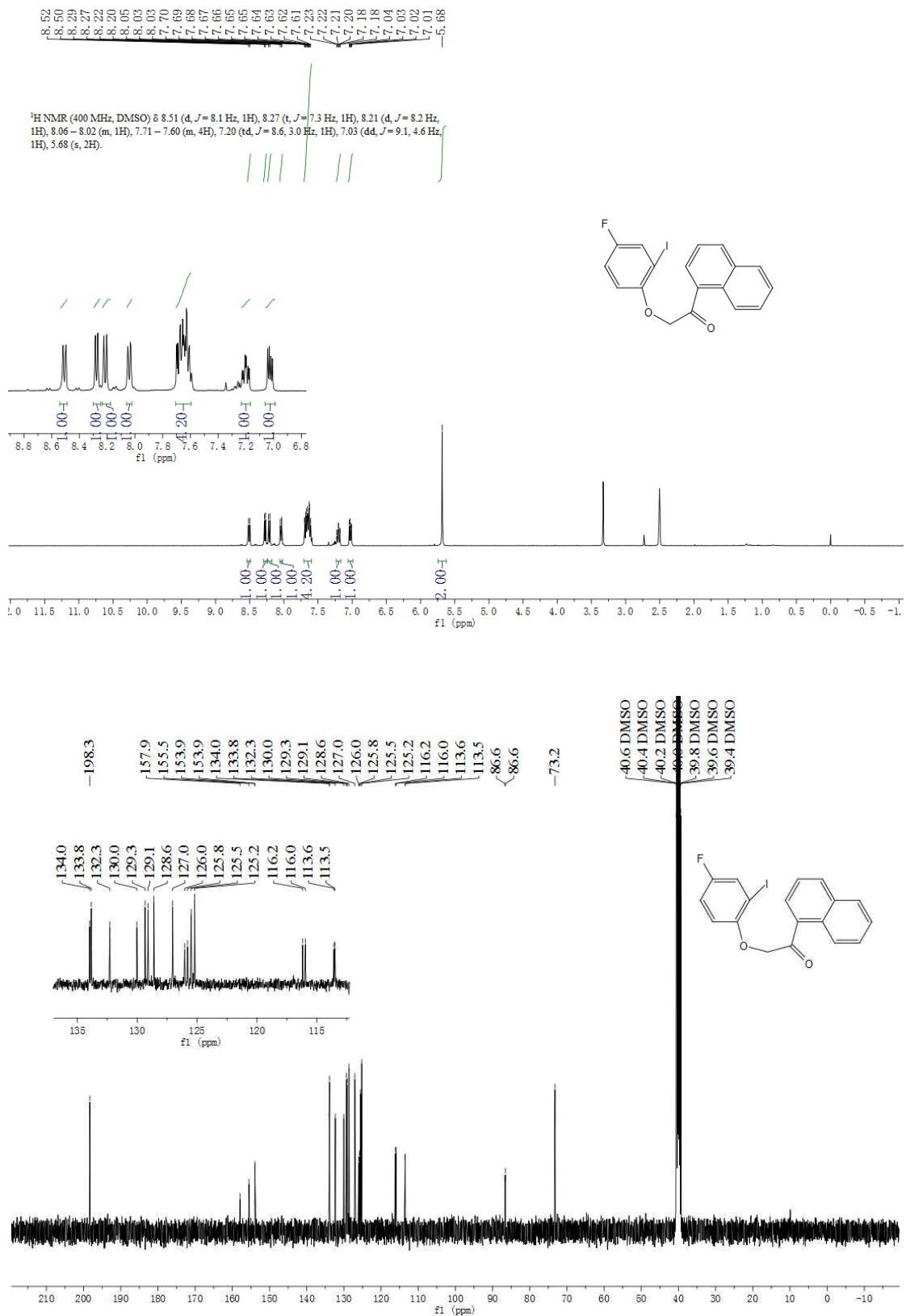


Fig. S32 NMR spectra of **3x**

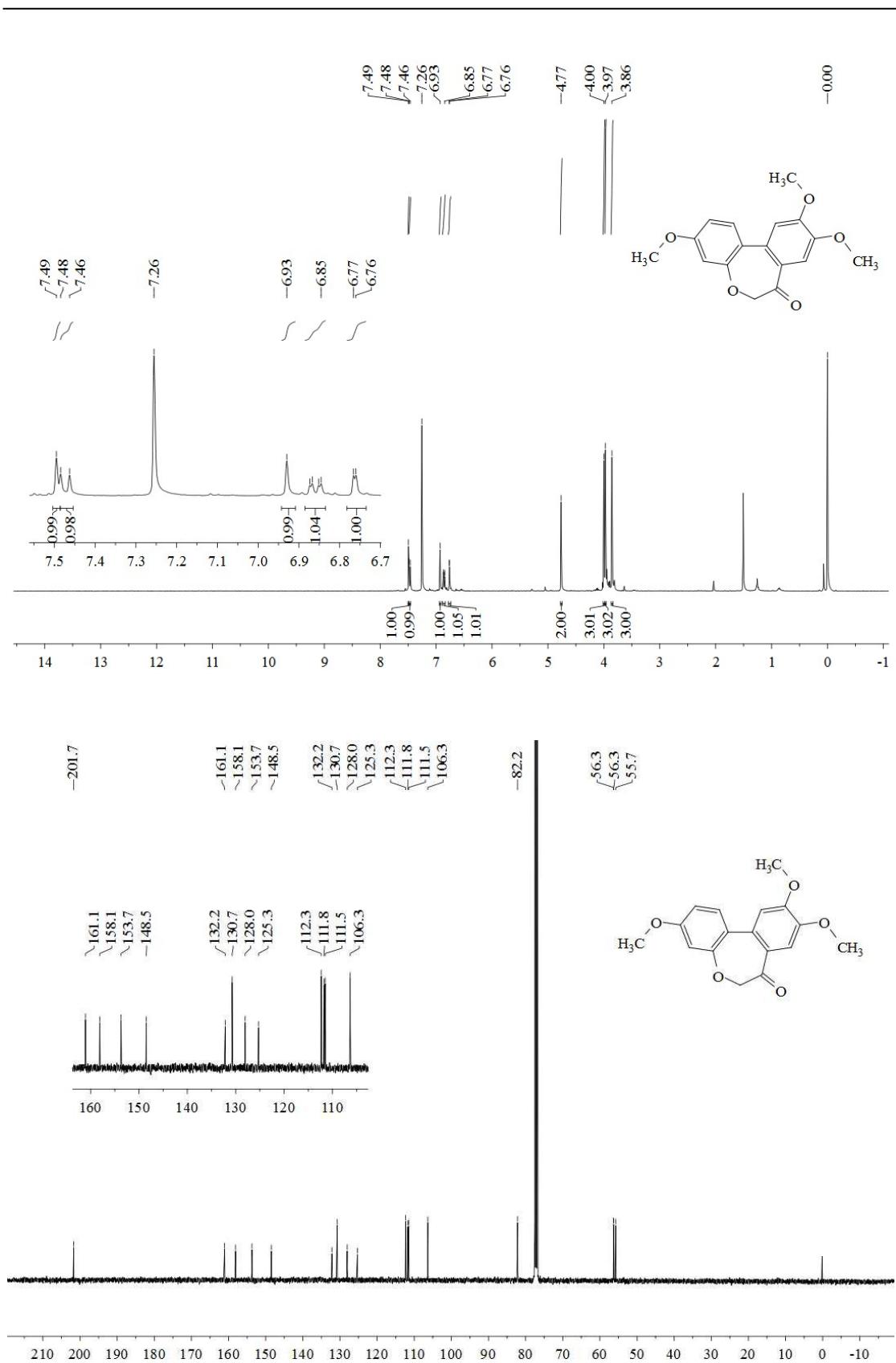


Fig. S33 NMR spectra of **4a**

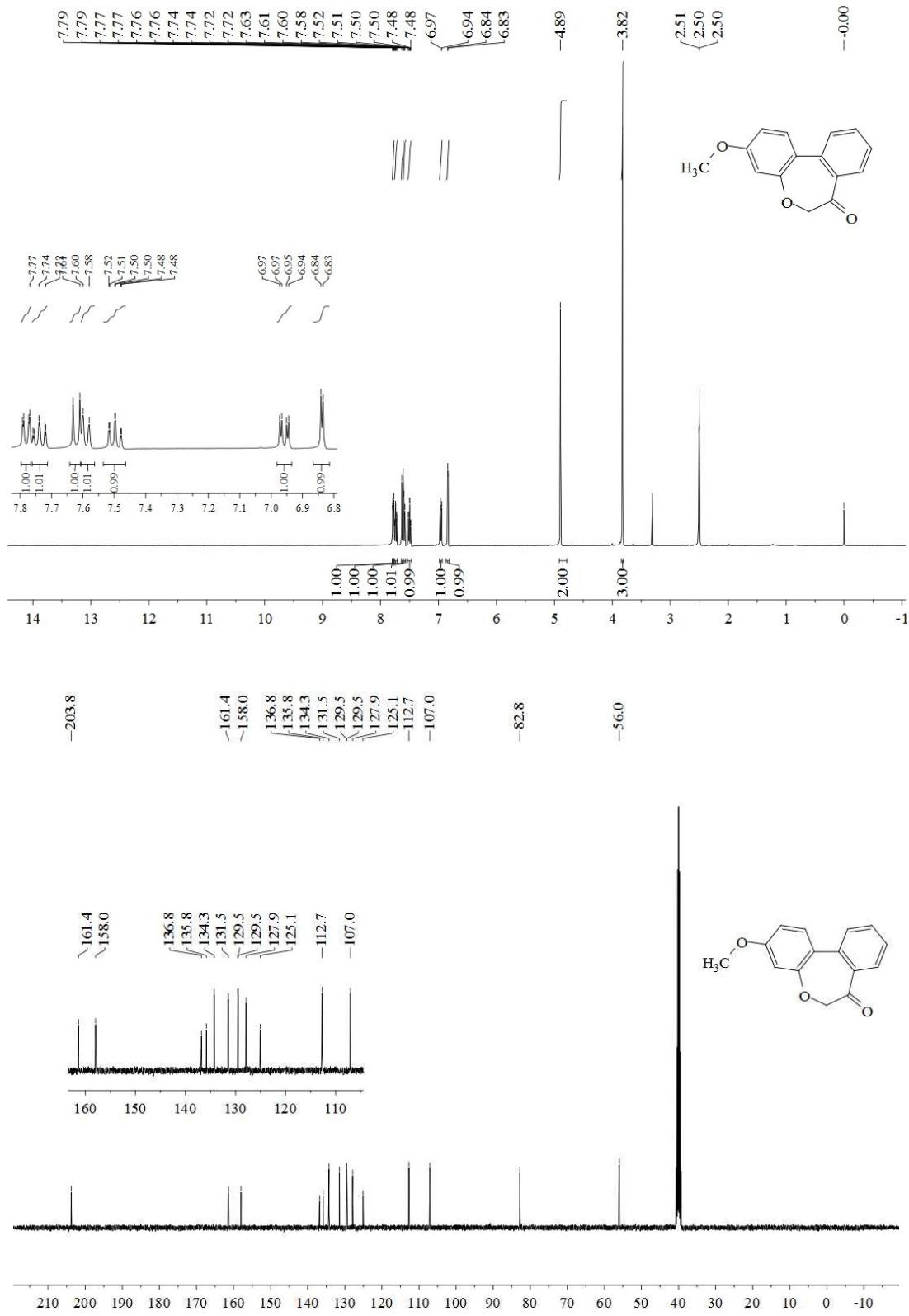


Fig. S34 NMR spectra of **4b**

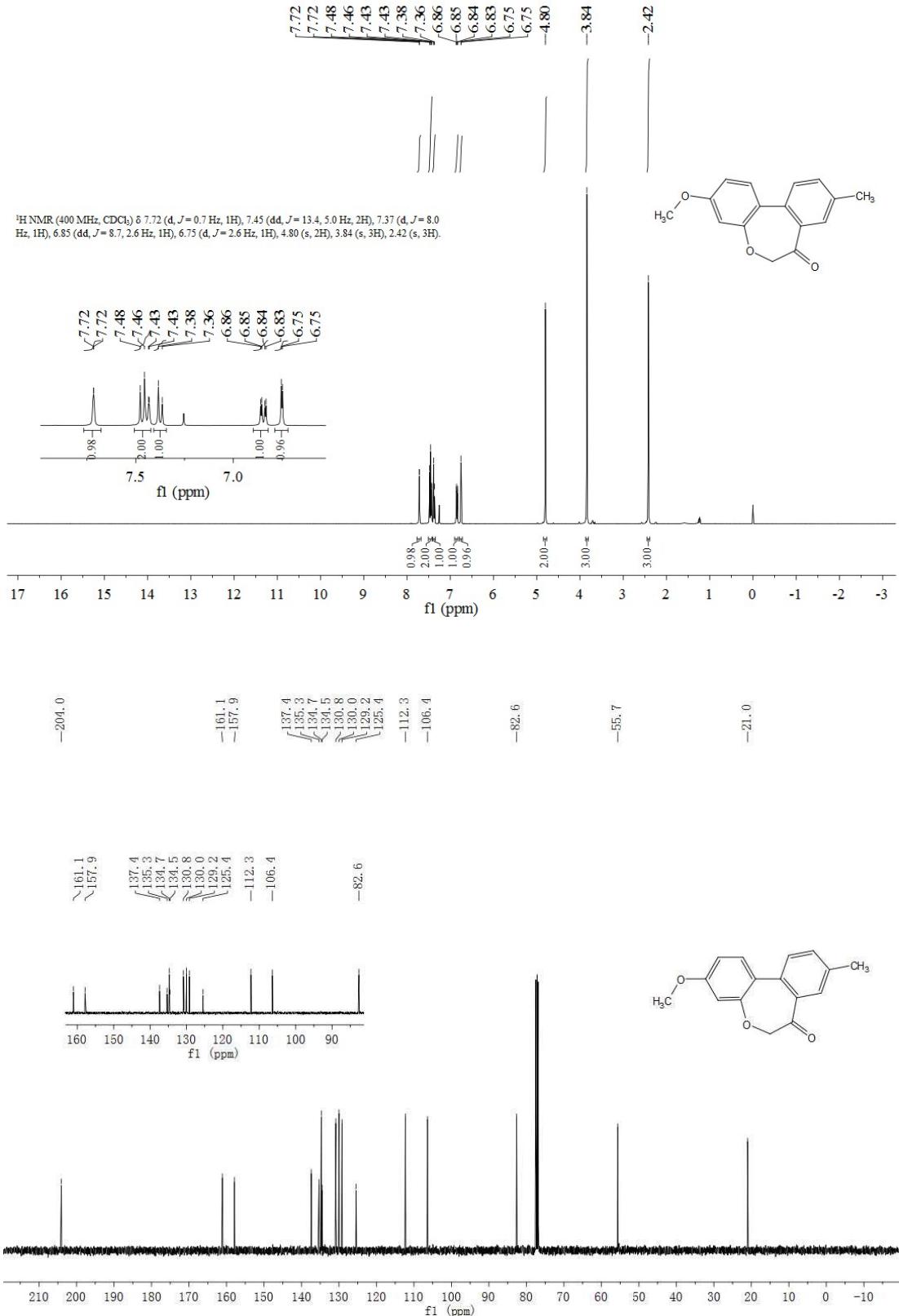


Fig. S35 NMR spectra of **4c**

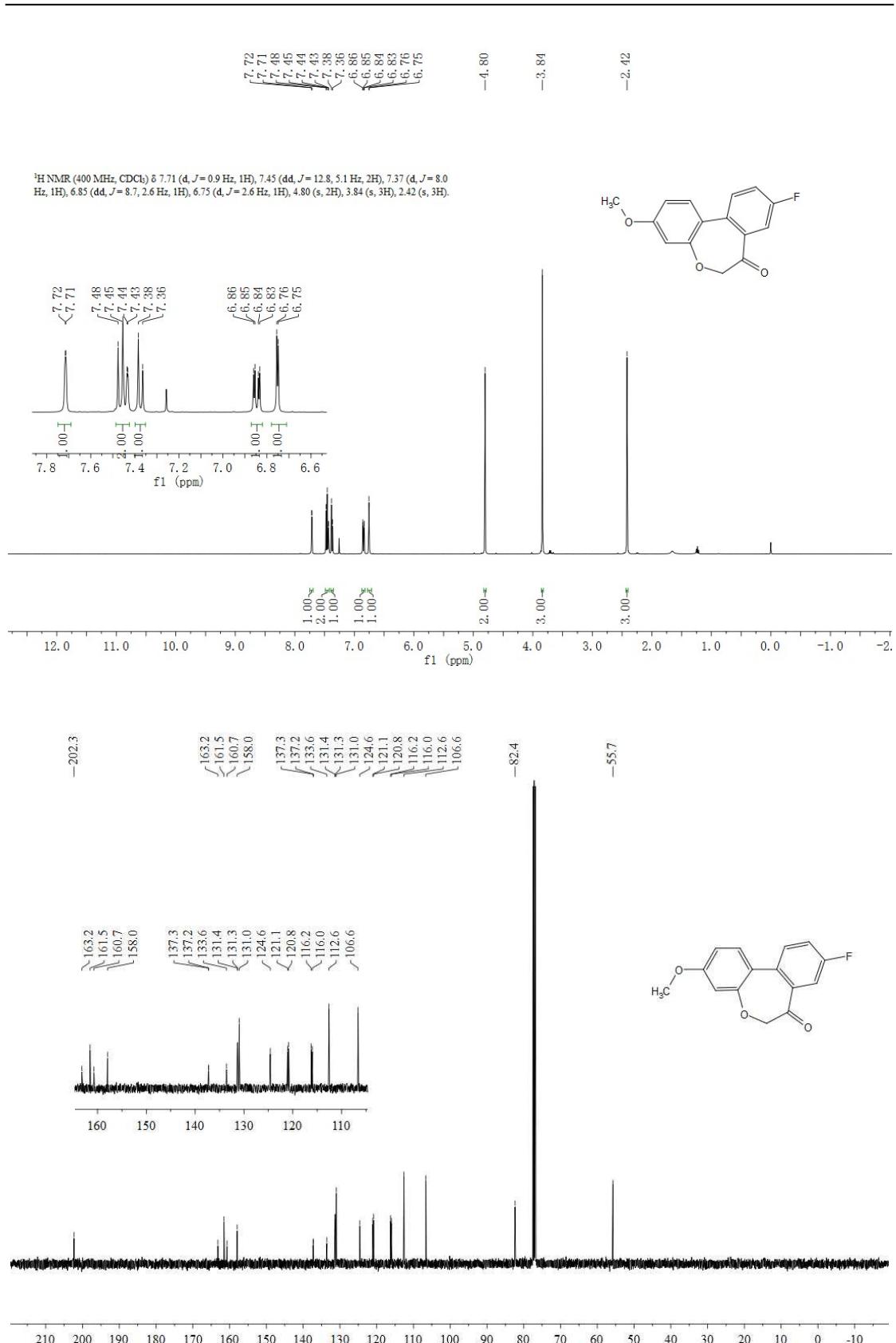


Fig. S36 NMR spectra of **4d**

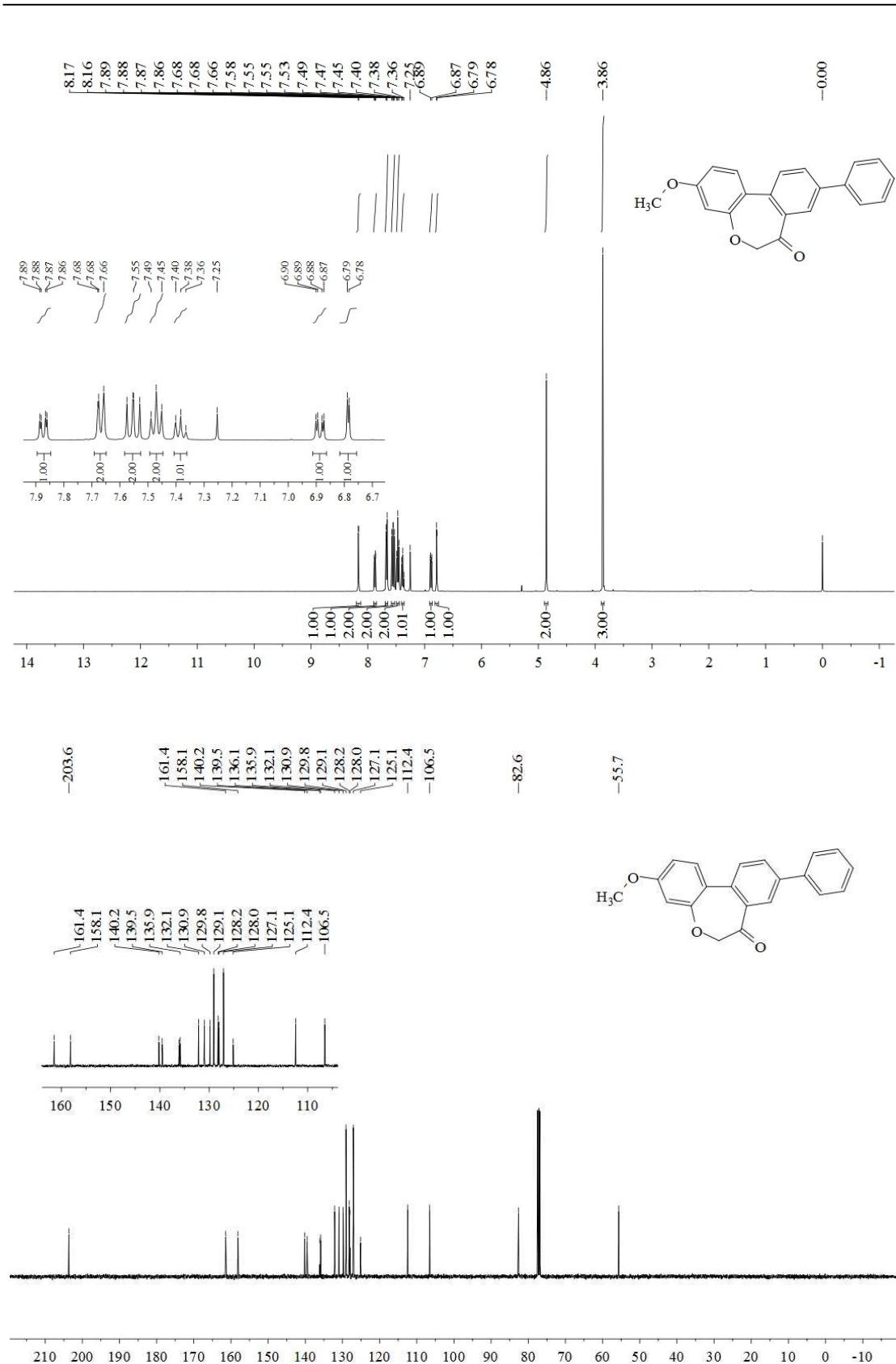


Fig. S37 NMR spectra of **4e**

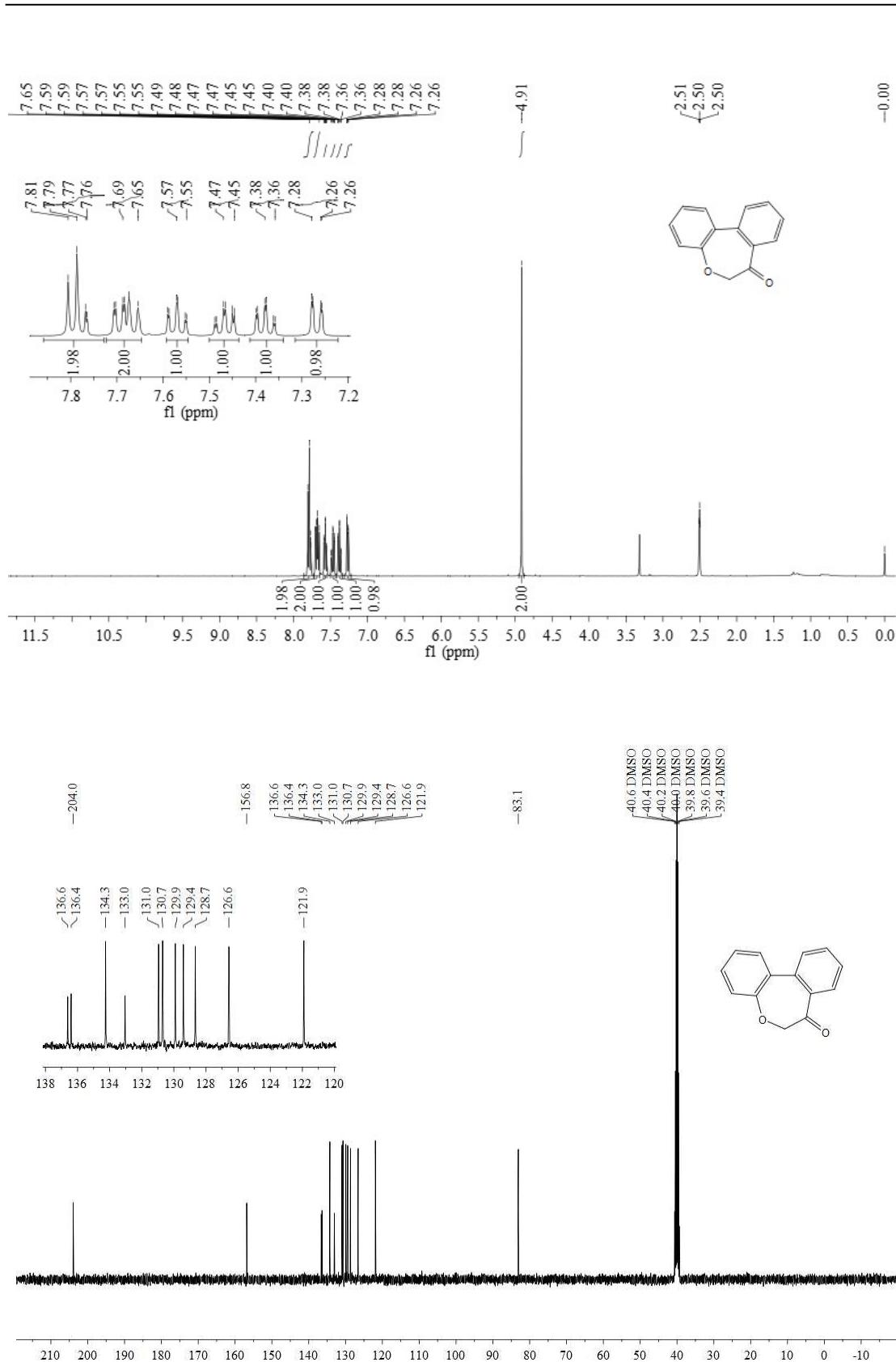


Fig. S38 NMR spectra of **4f**

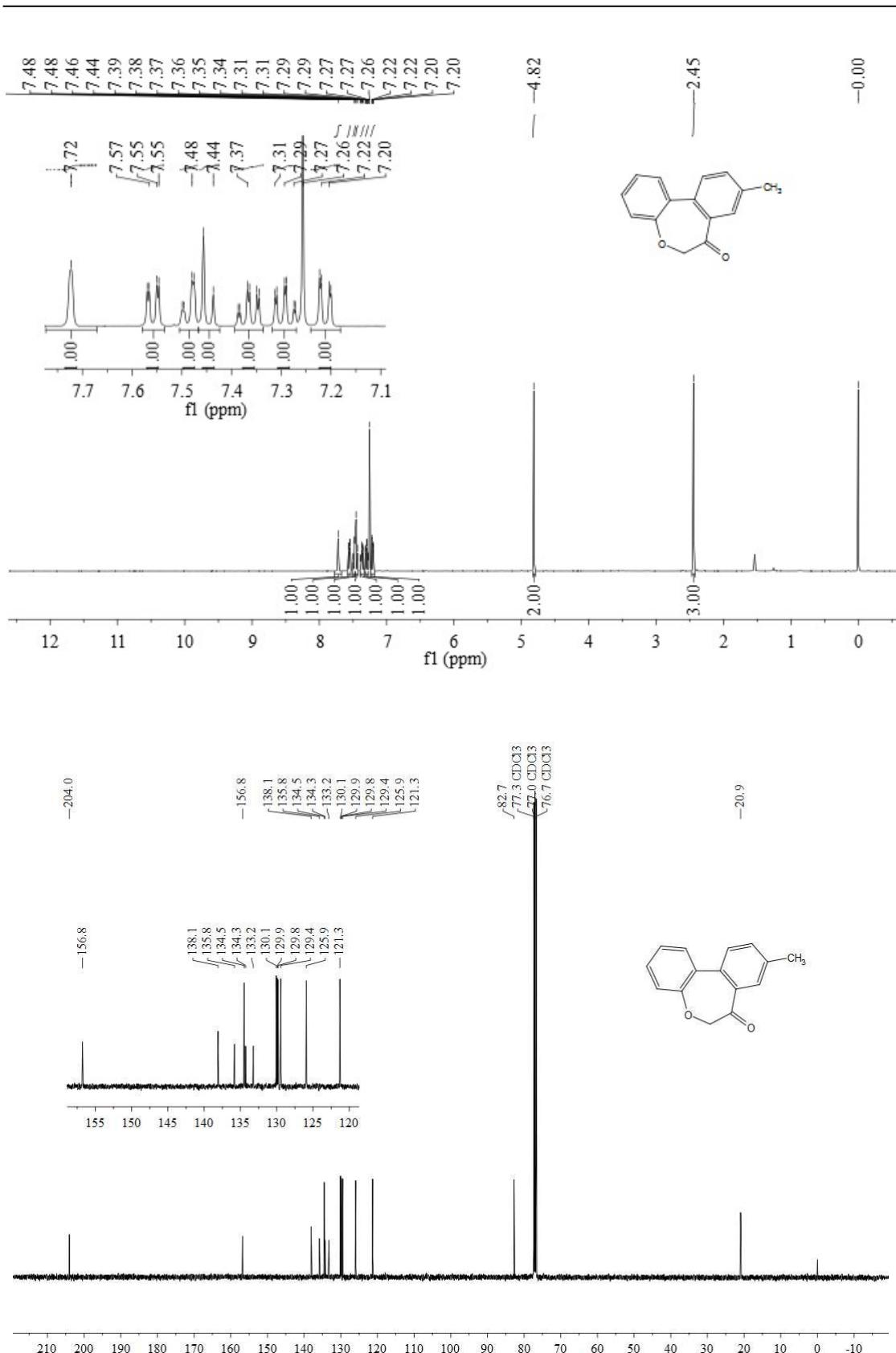


Fig. S39 NMR spectra of **4g**

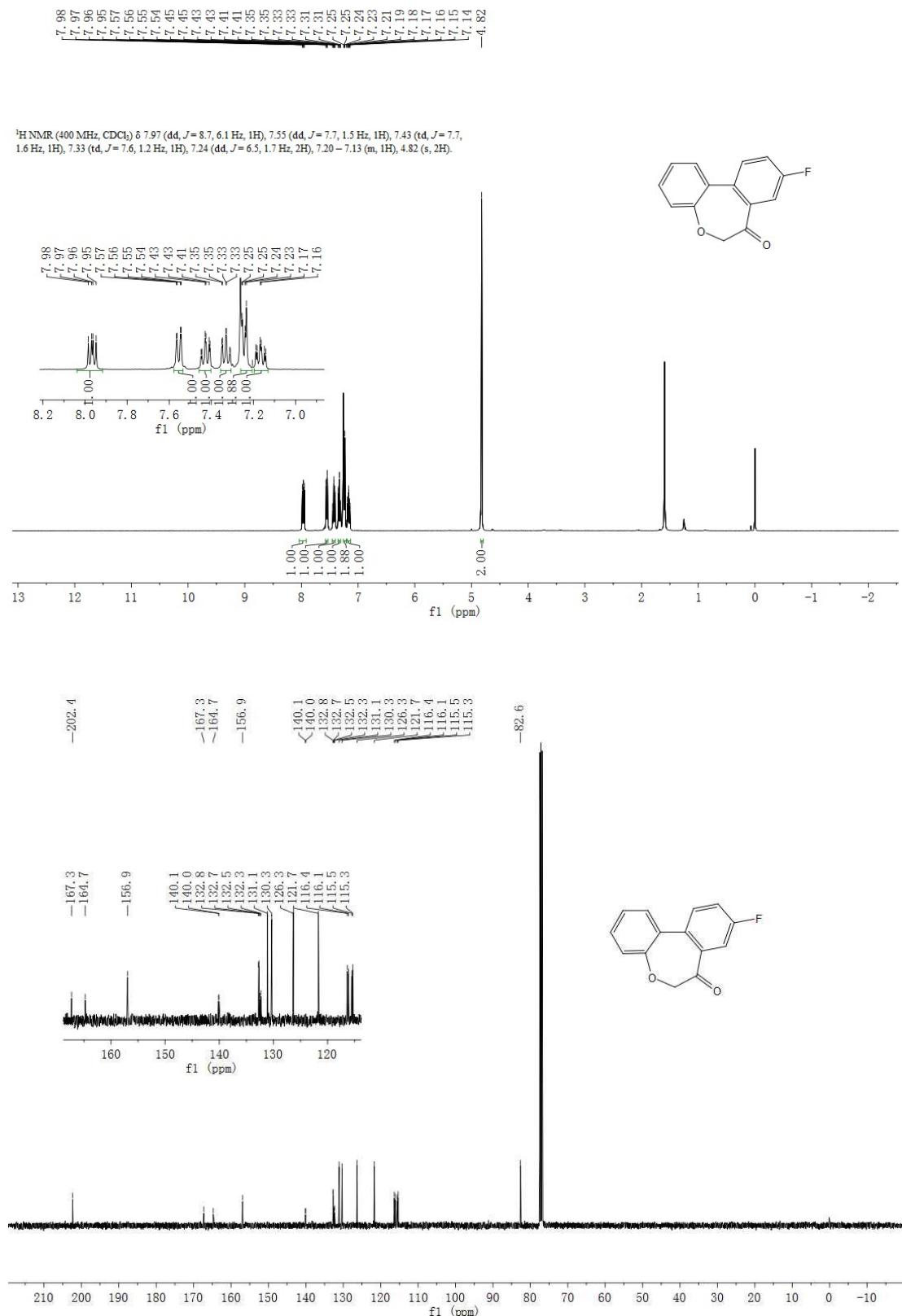


Fig. S40 NMR spectra of **4h**

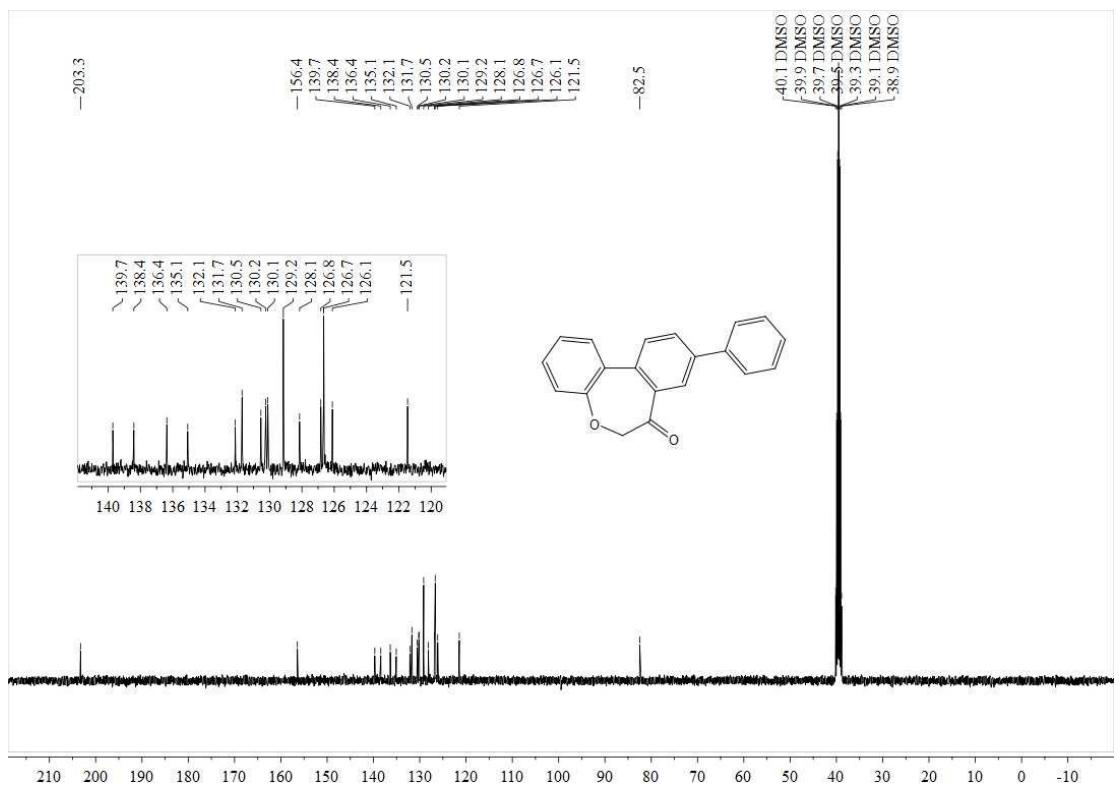
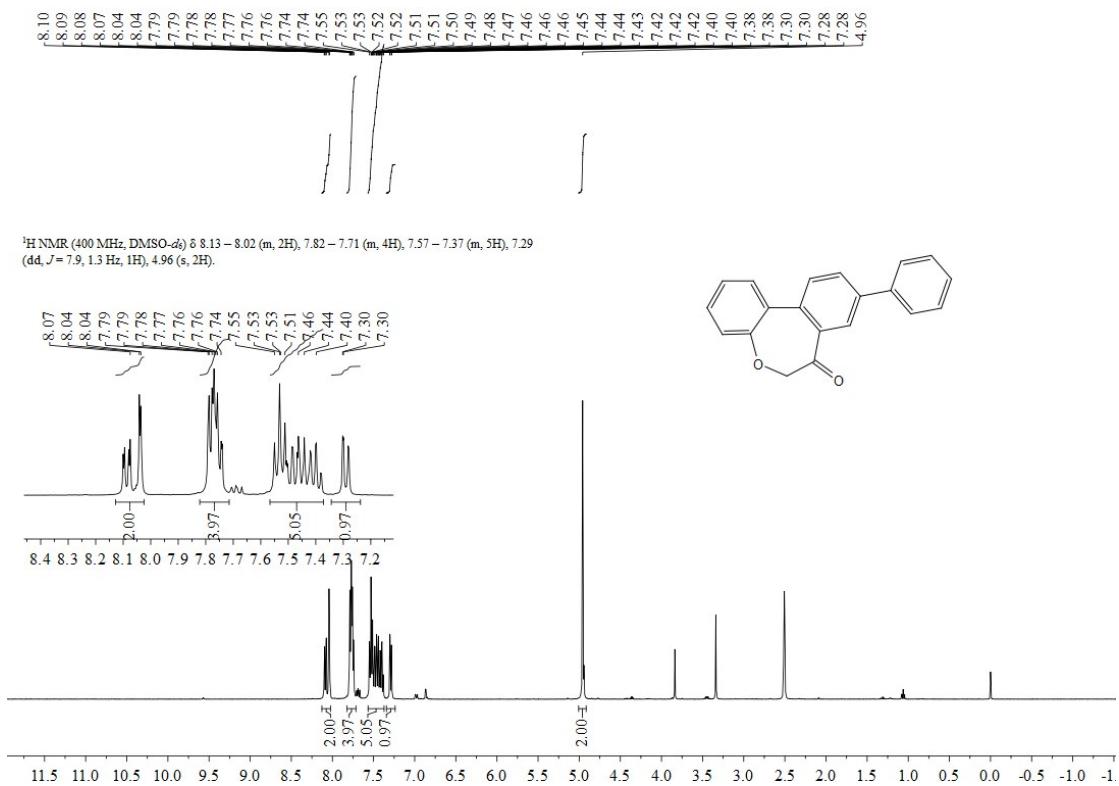


Fig. S41 NMR spectra of **4i**

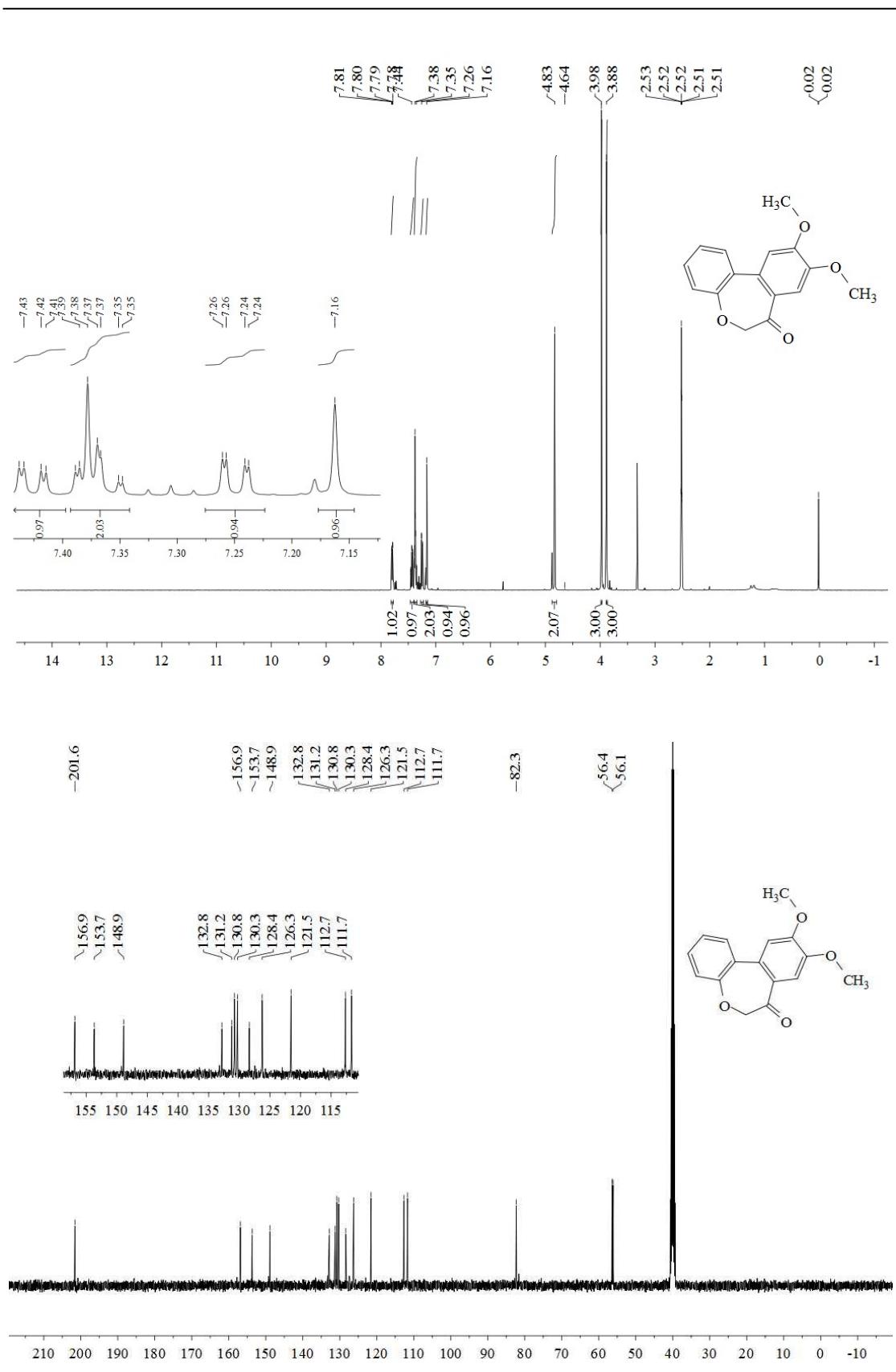


Fig. S42 NMR spectra of **4j**

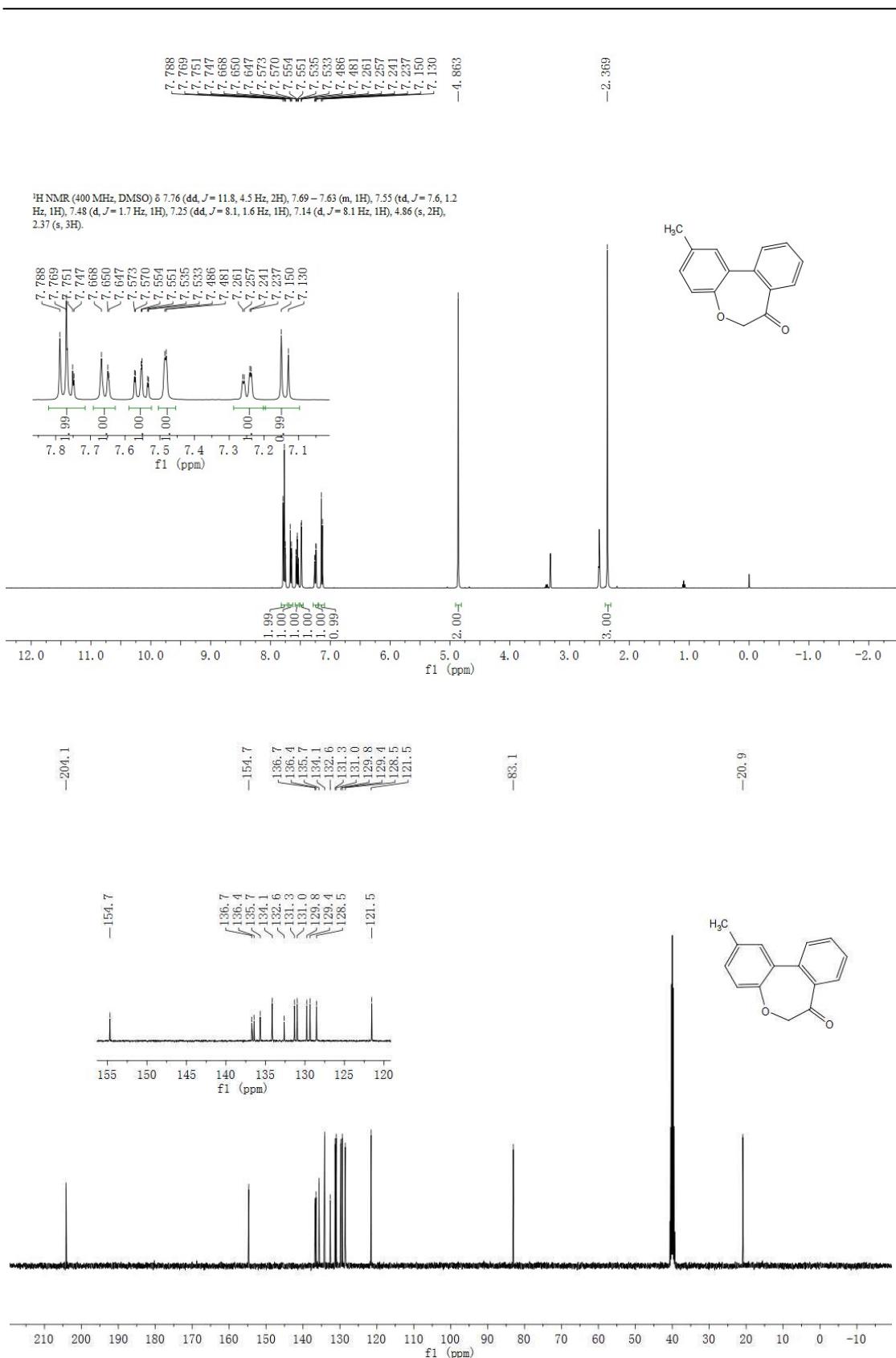


Fig. S43 NMR spectra of **4k**

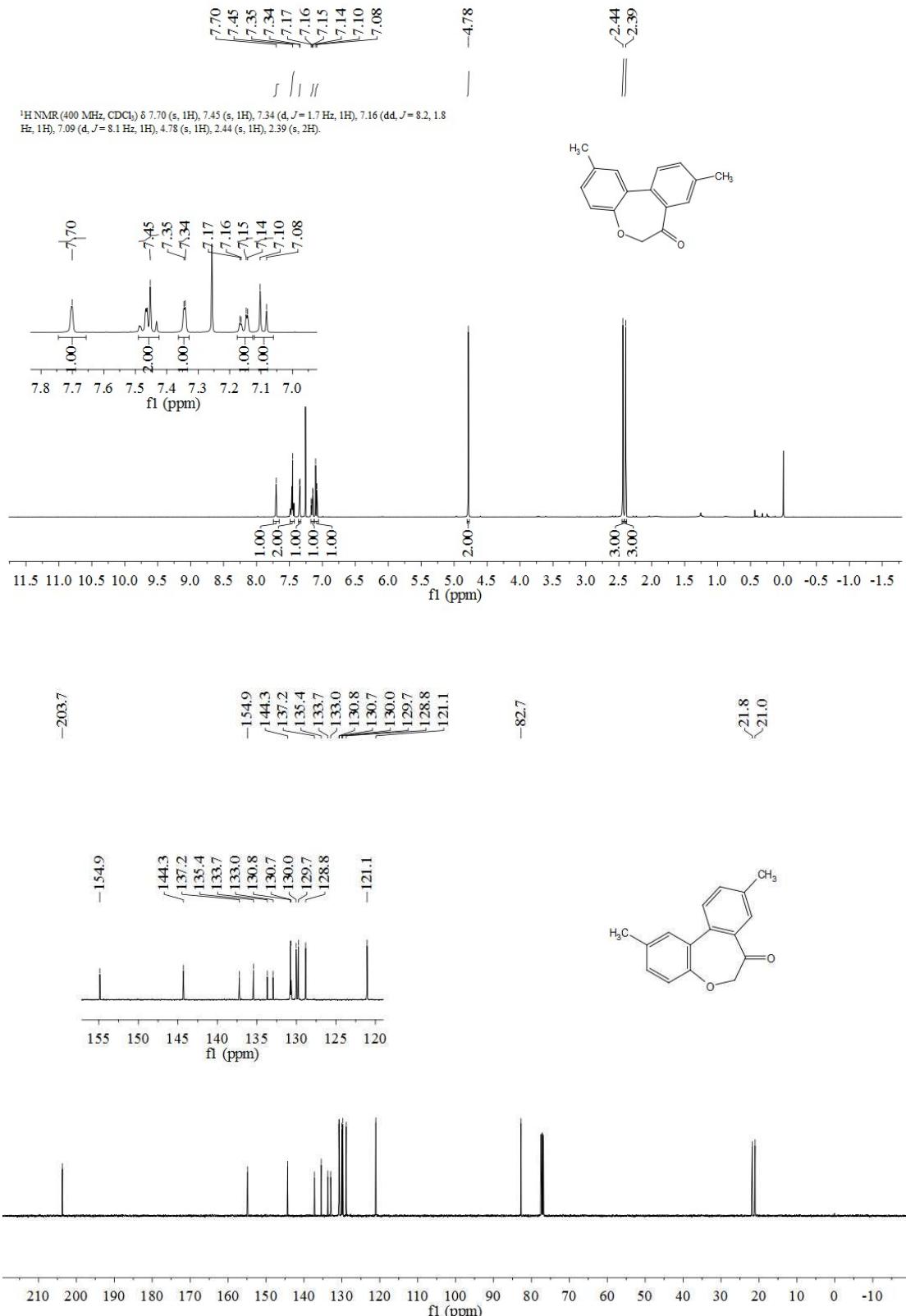


Fig. S44 NMR spectra of 4l

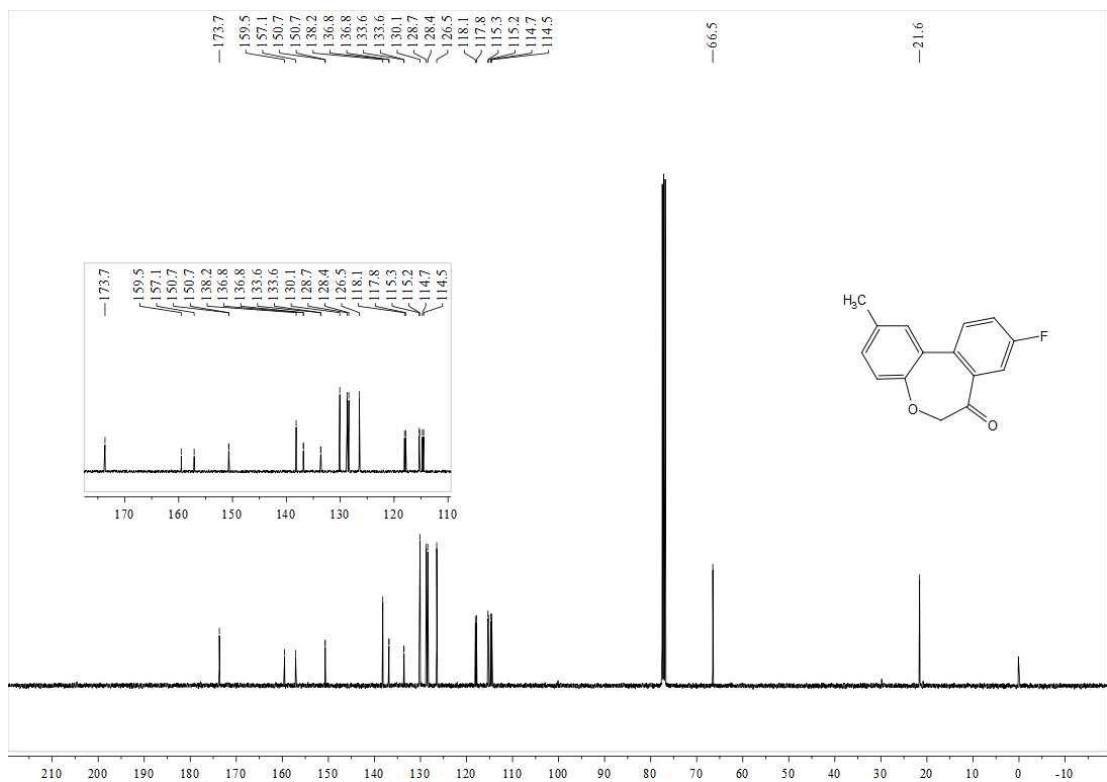
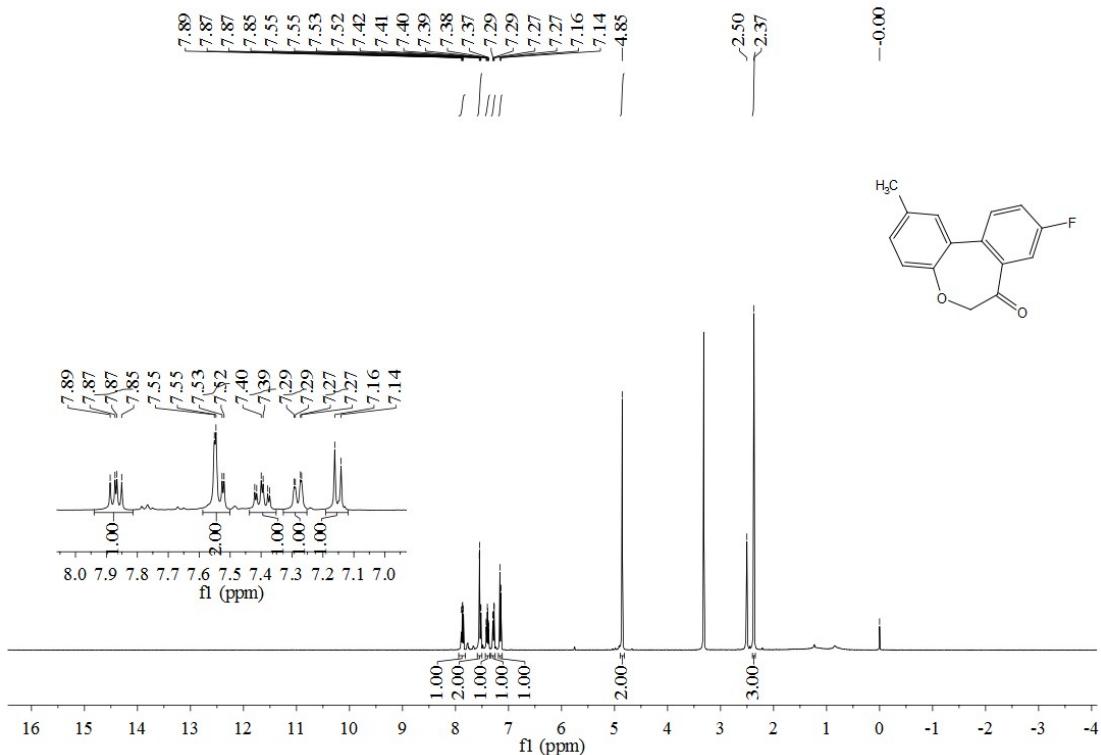


Fig. S45 NMR spectra of **4m**

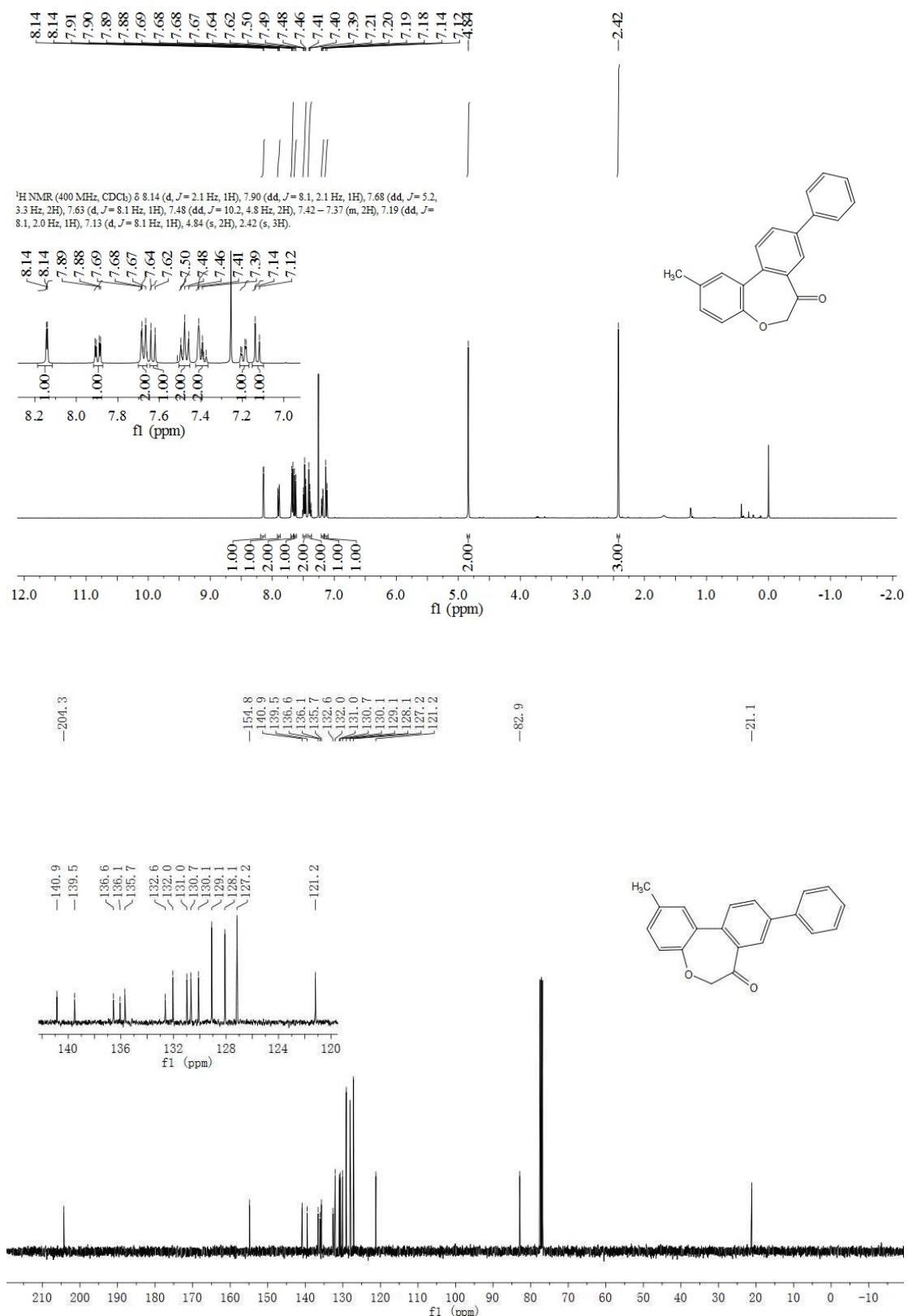


Fig. S46 NMR spectra of **4n**

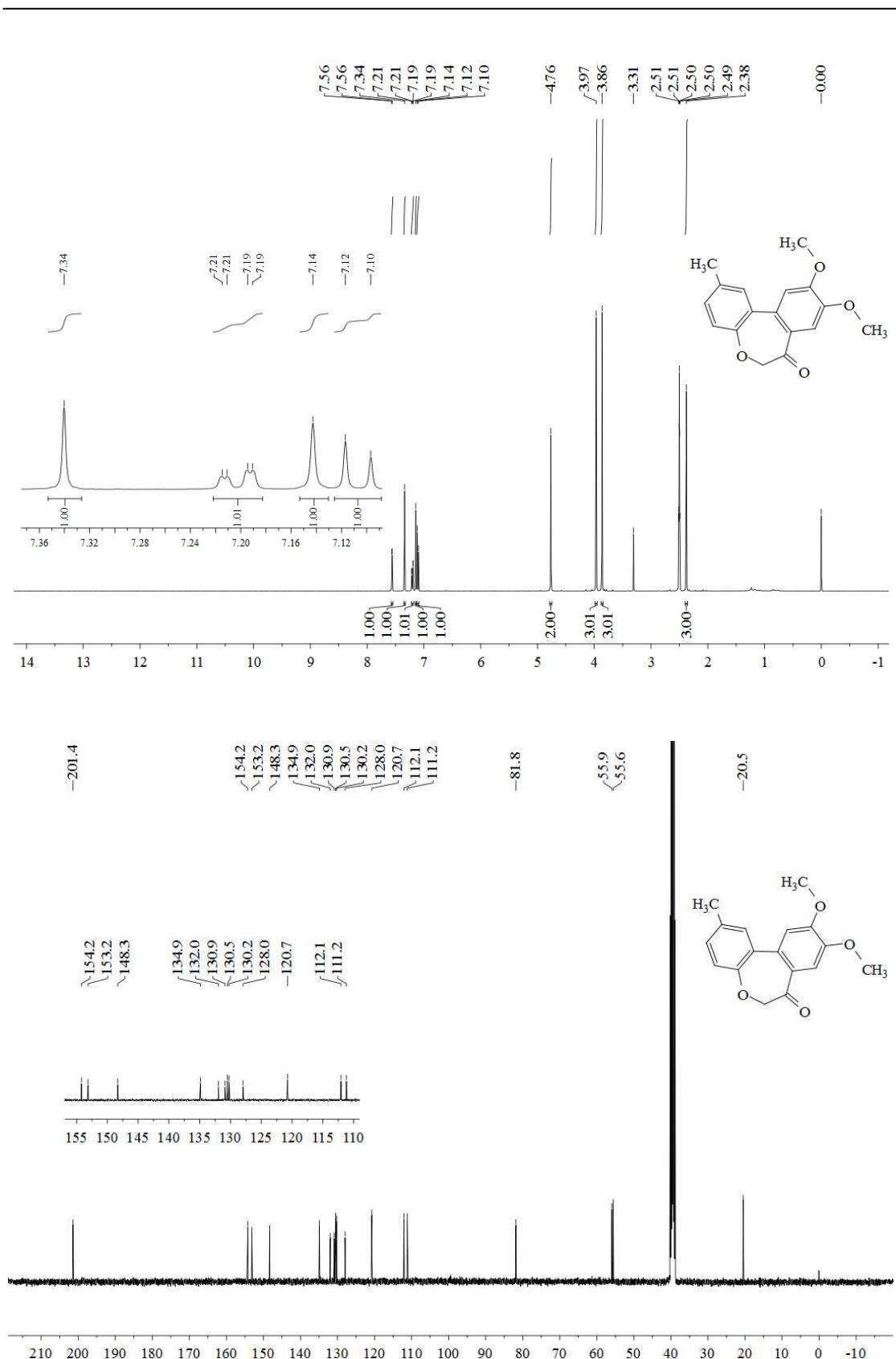


Fig. S47 NMR spectra of **4o**

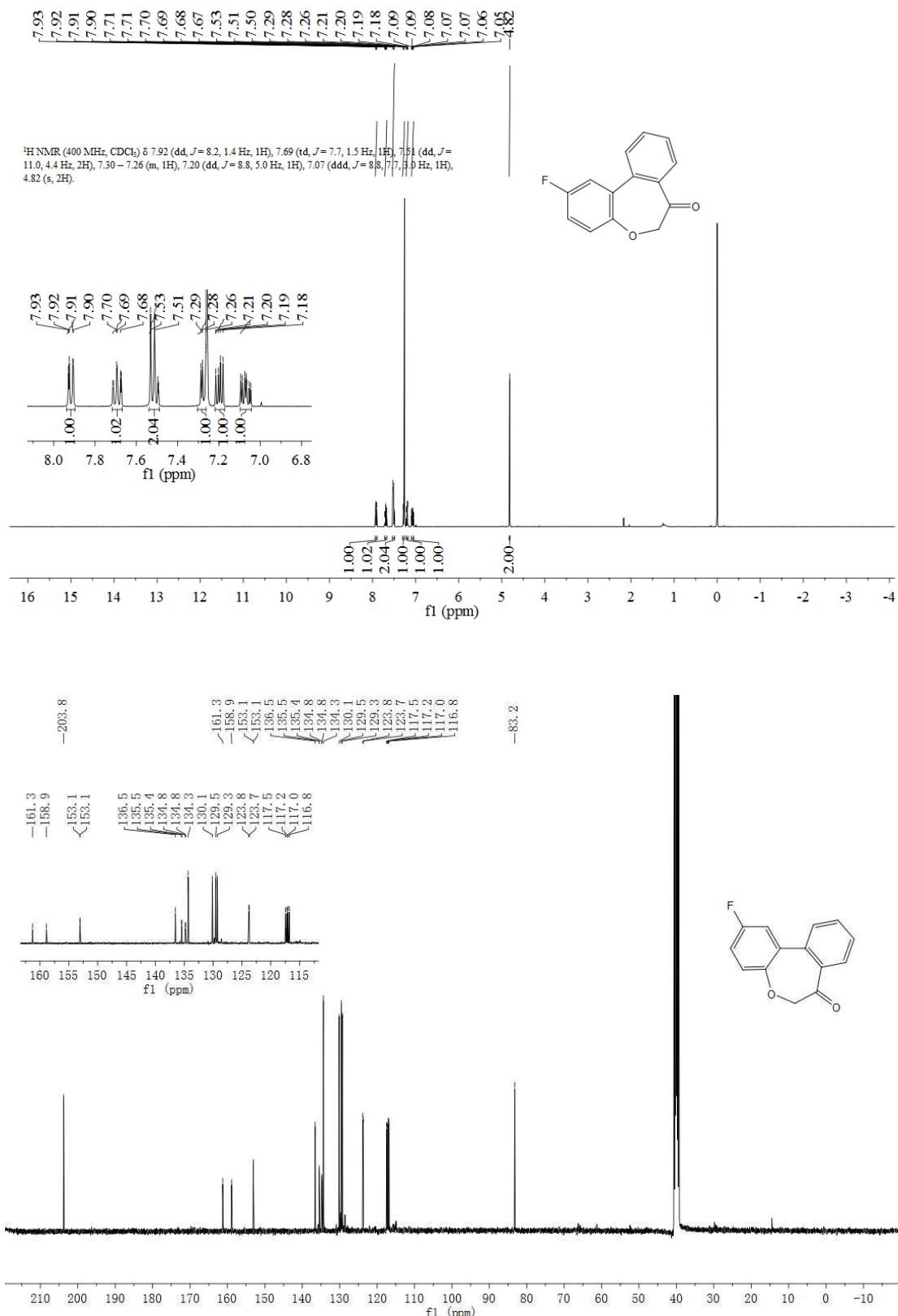
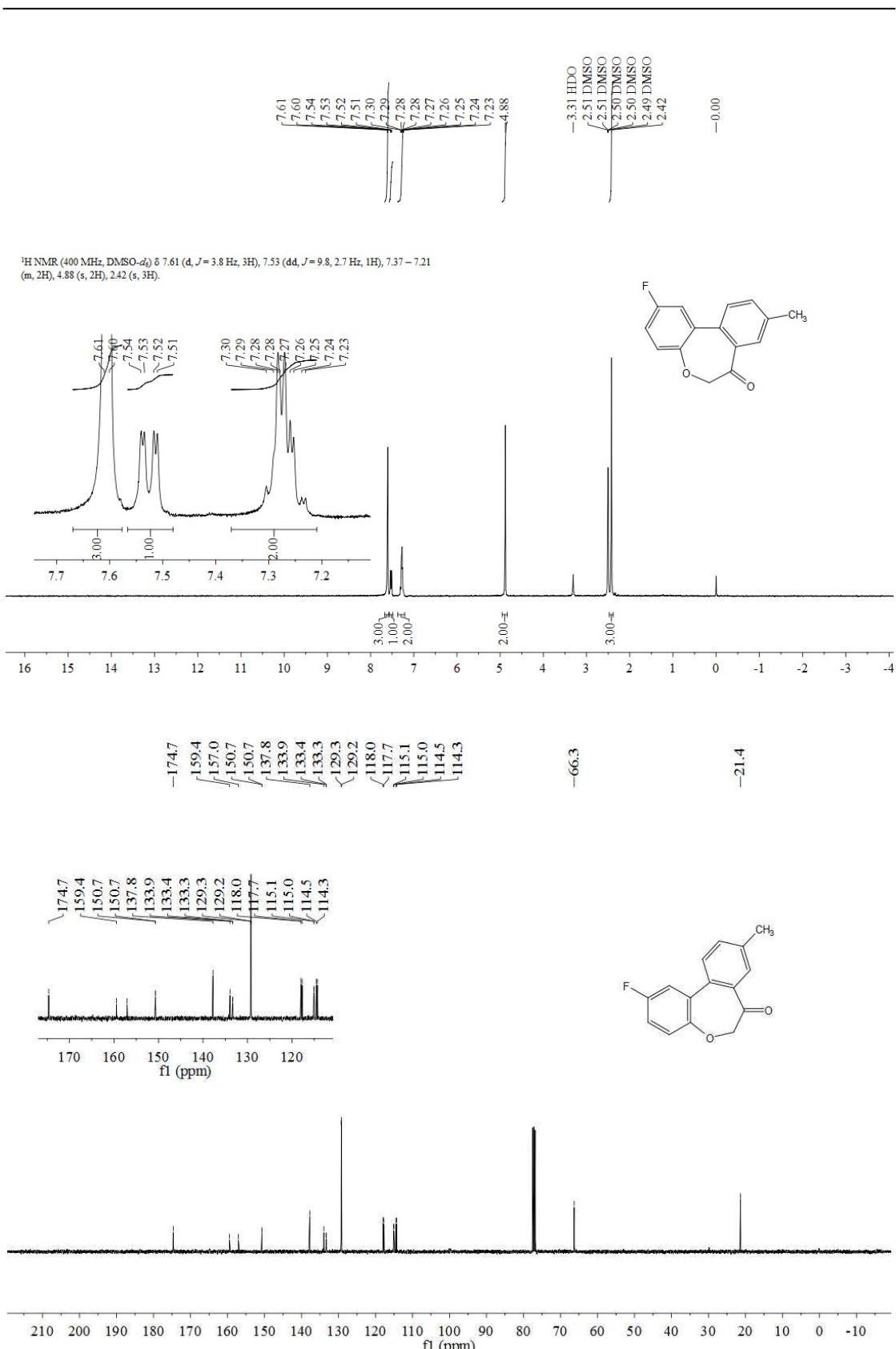


Fig. S48 NMR spectra of **4p**



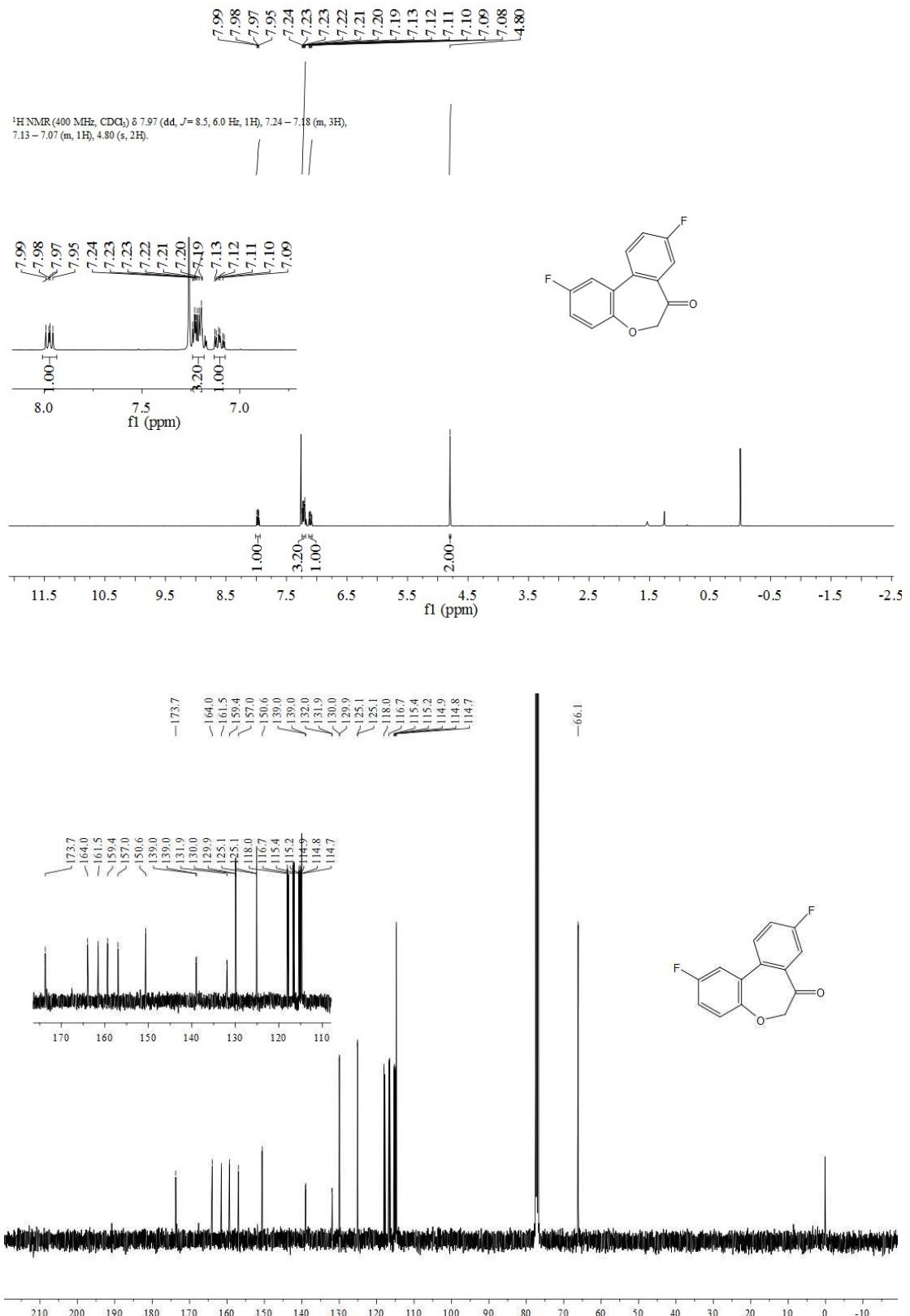


Fig. S50 NMR spectra of **4r**

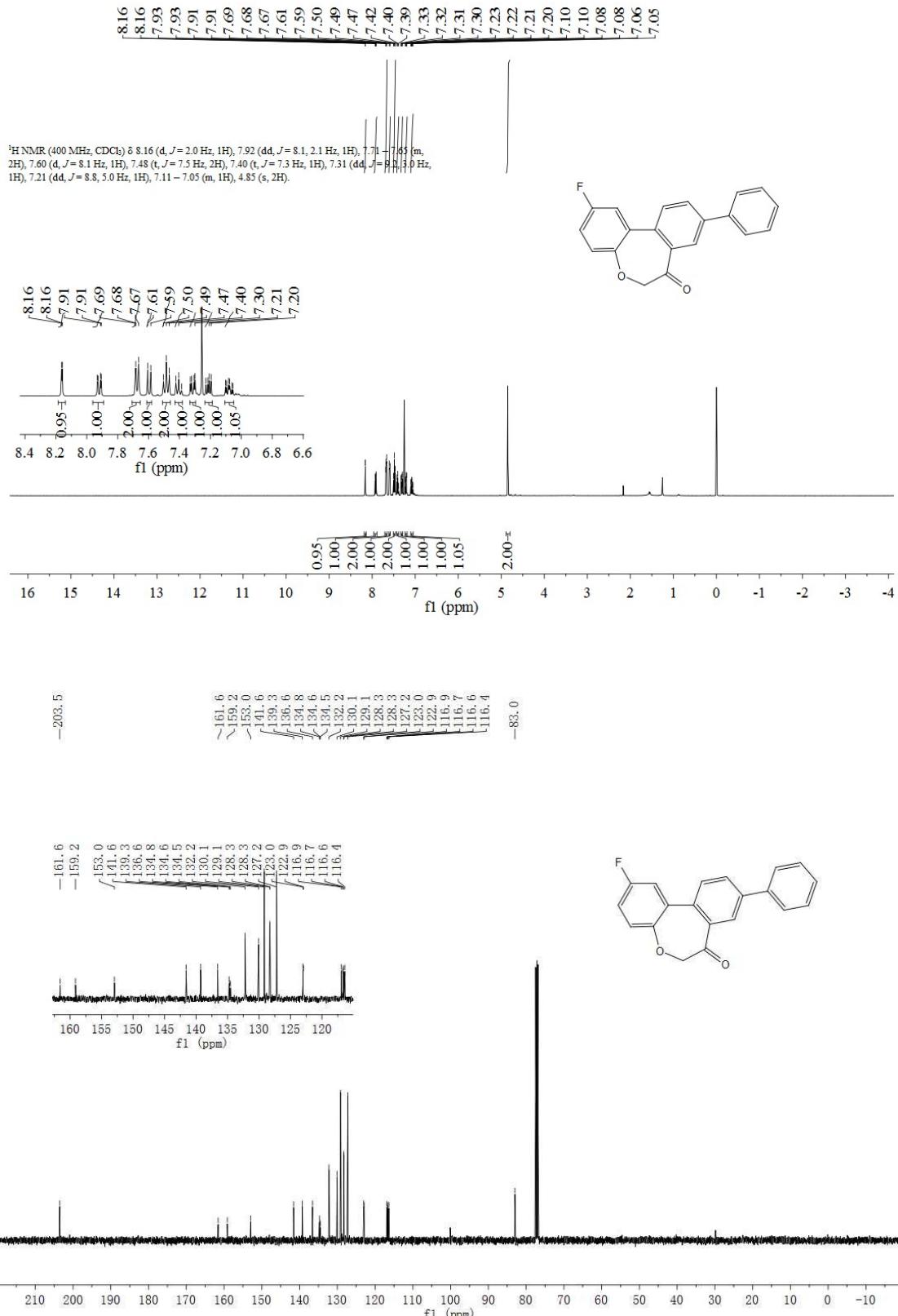


Fig. S51 NMR spectra of **4s**

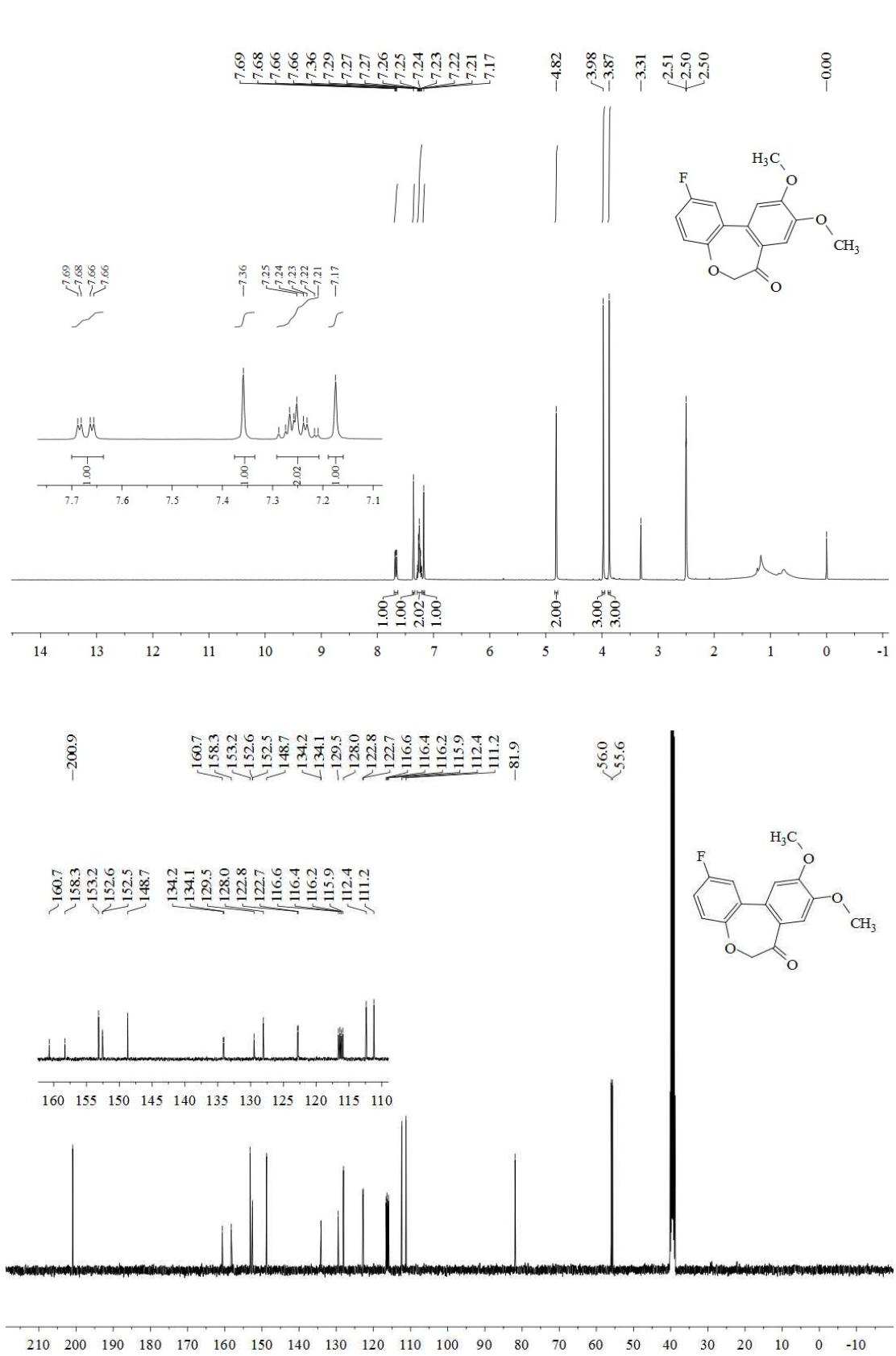


Fig. S52 NMR spectra of 4t

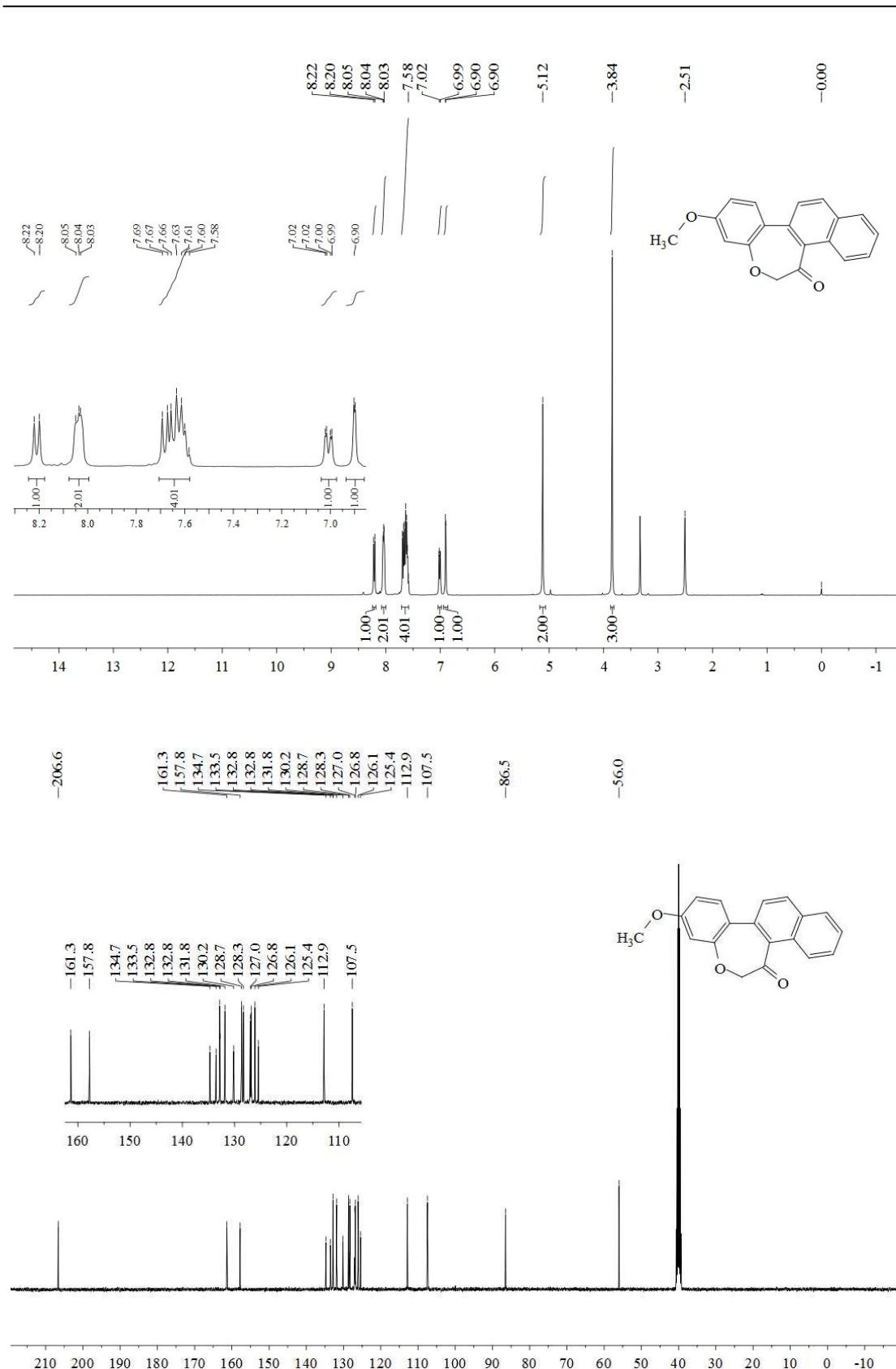


Fig. S53 NMR spectra of **4u**

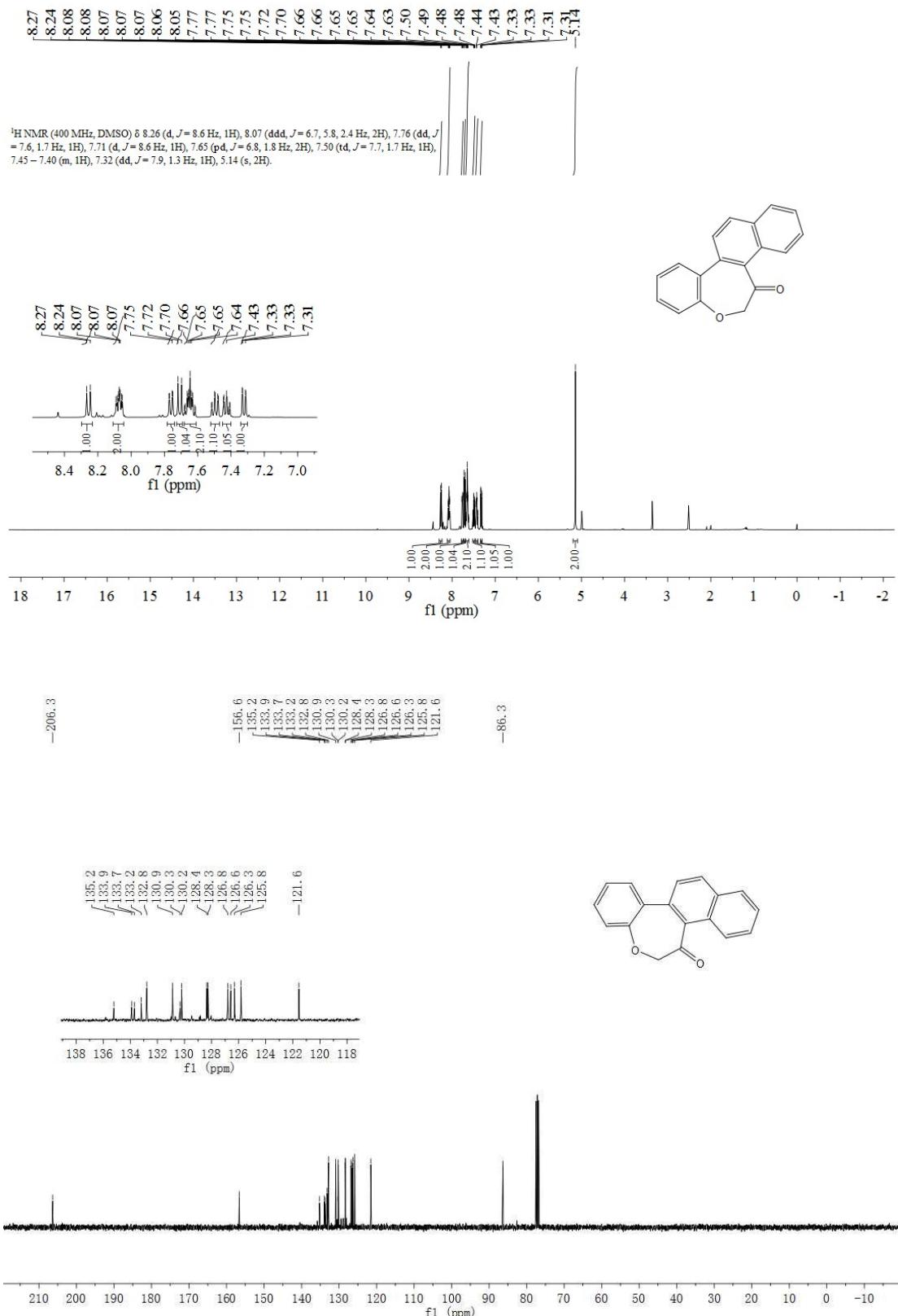


Fig. S54 NMR spectra of **4v**

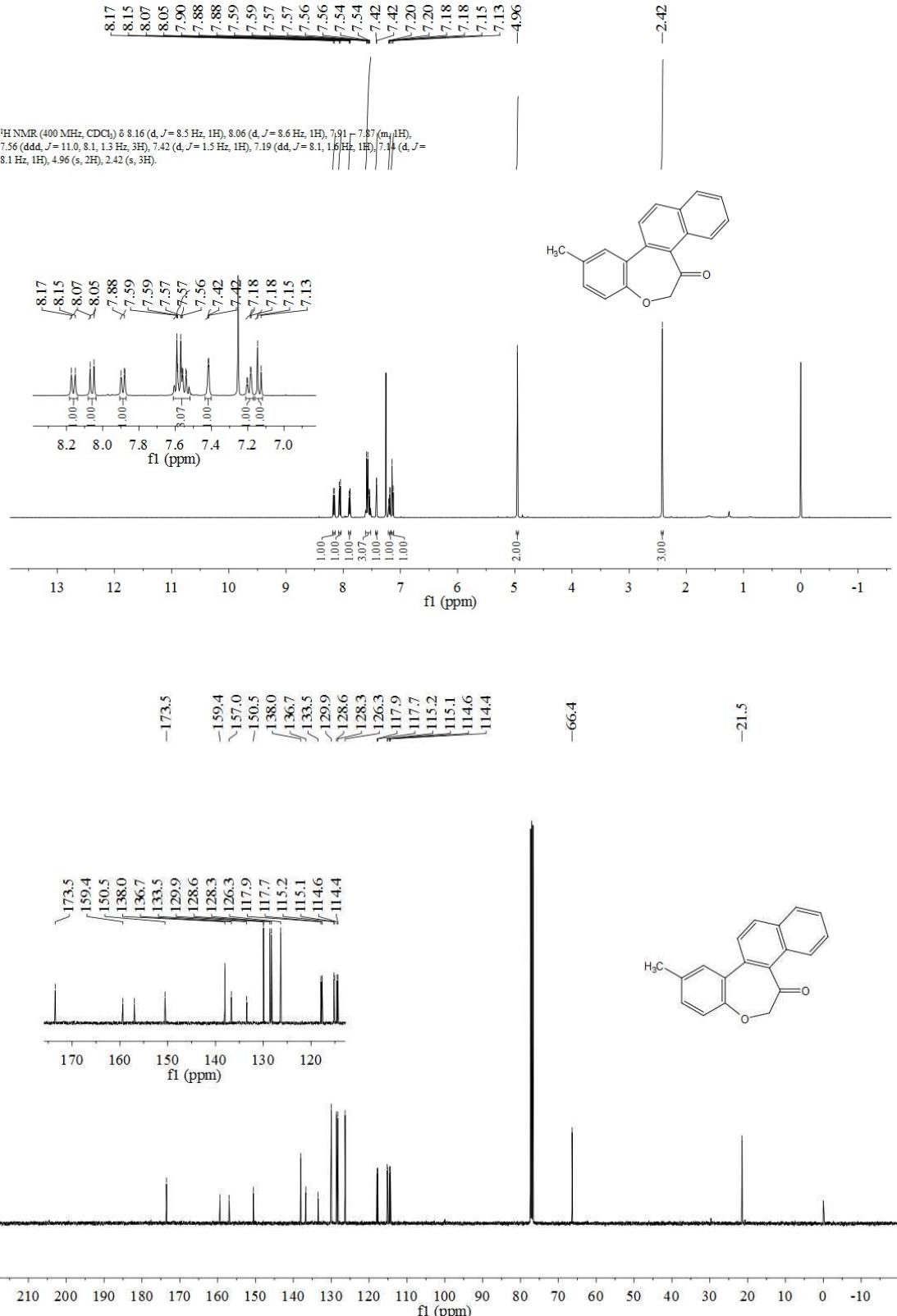


Fig. S55 NMR spectra of 4w

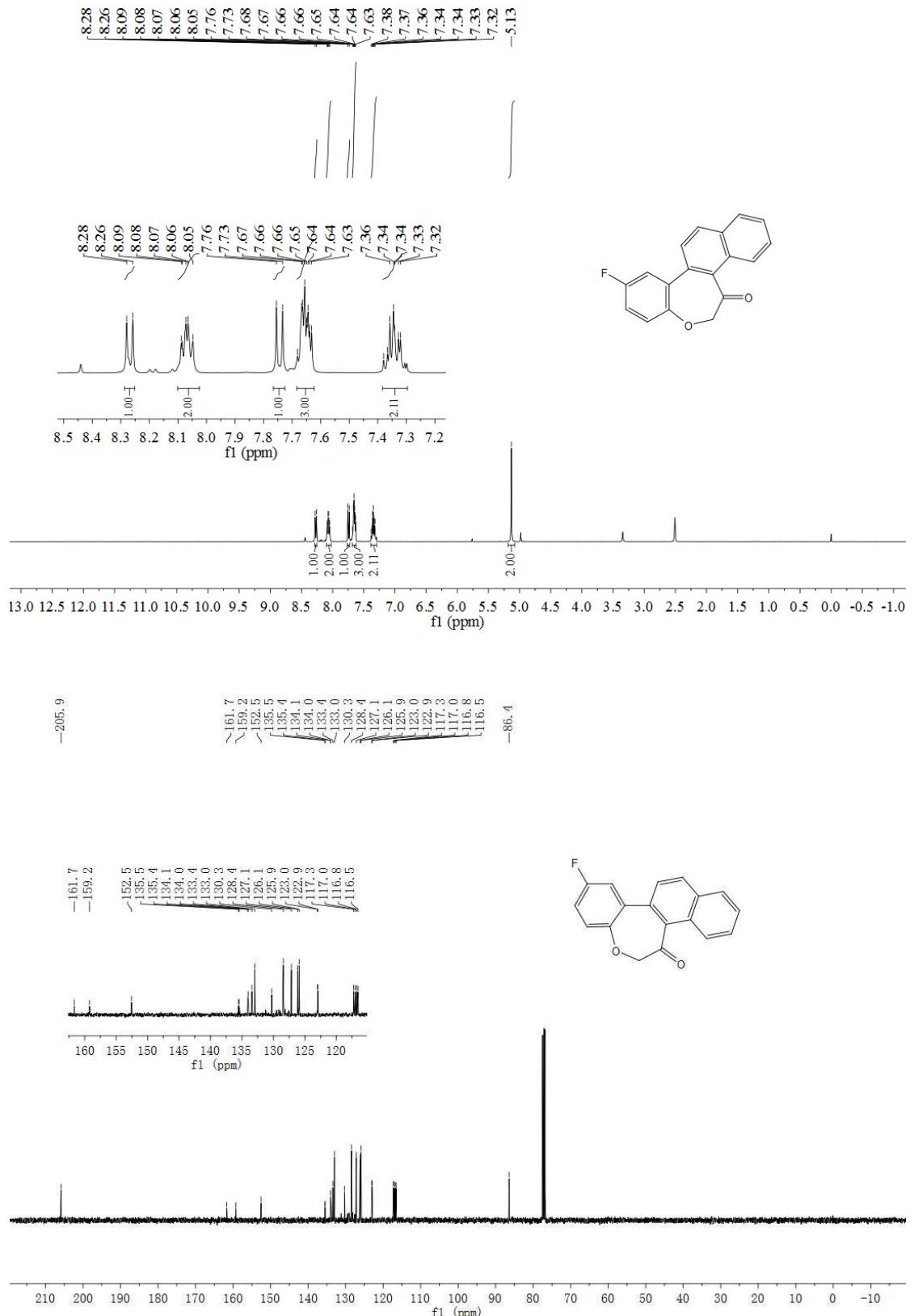


Fig. S56 NMR spectra of **4x**

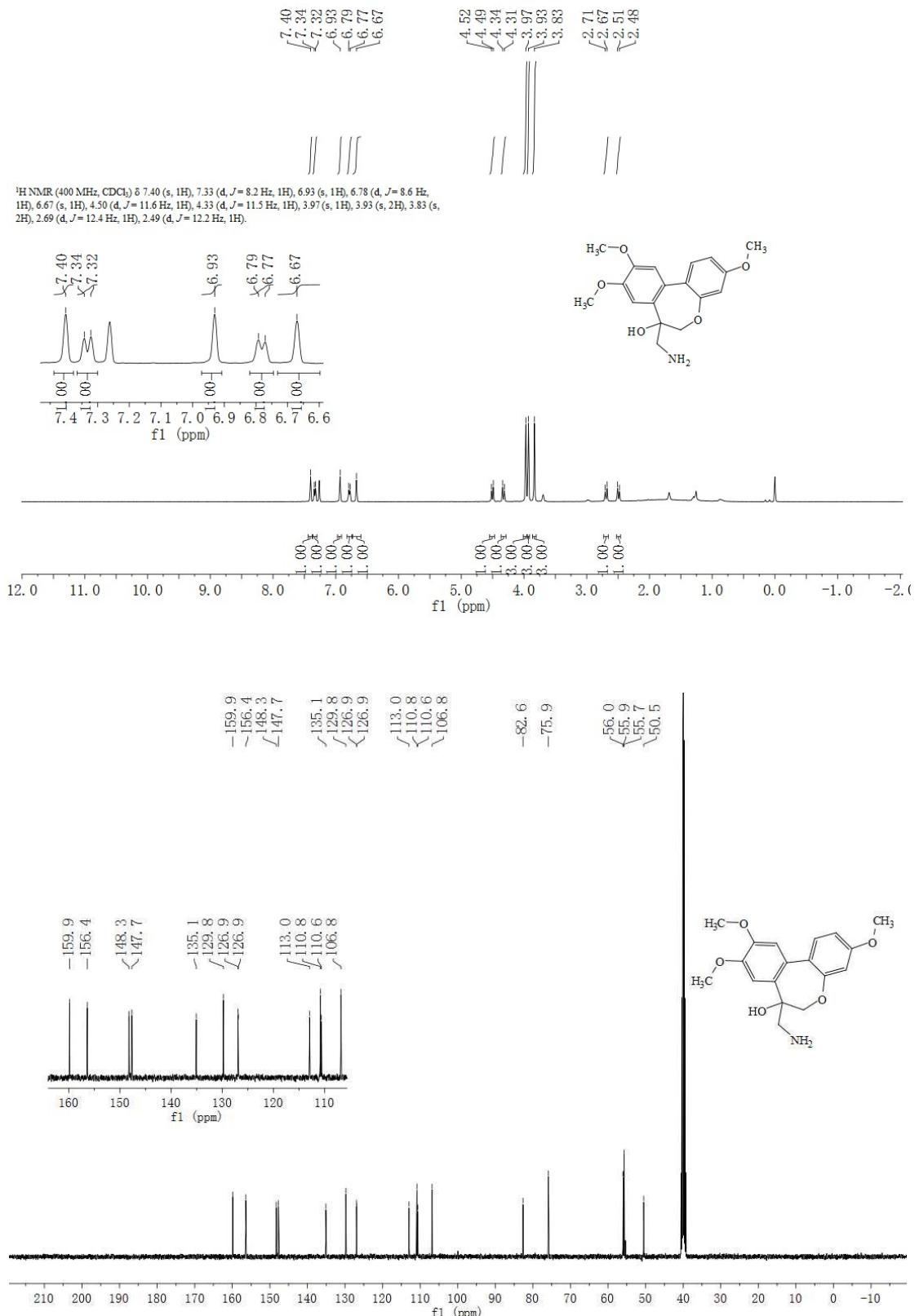


Fig. S57 NMR spectra of **6a**

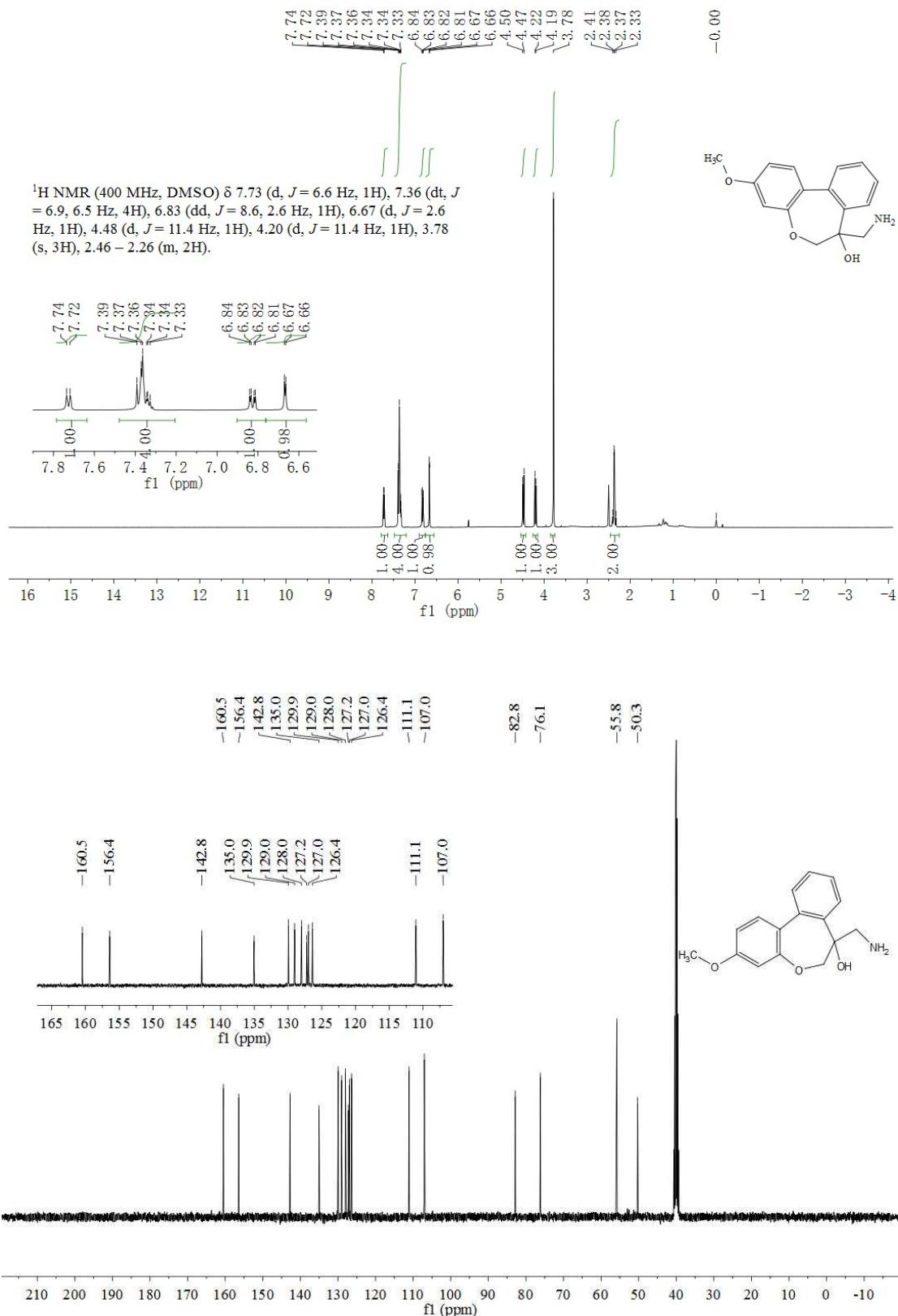


Fig. S58 NMR spectra of **6b**

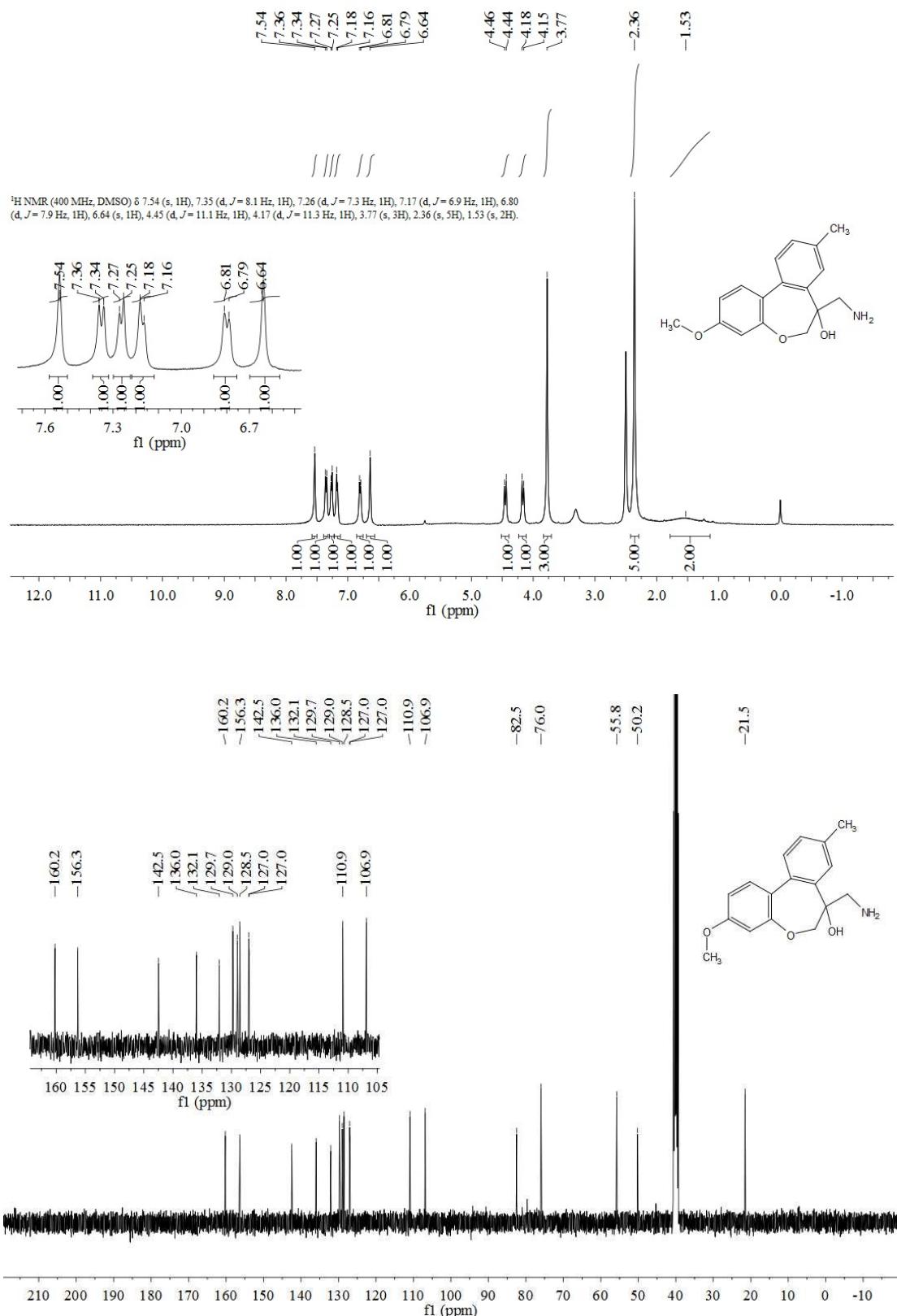


Fig. S59 NMR spectra of **6c**

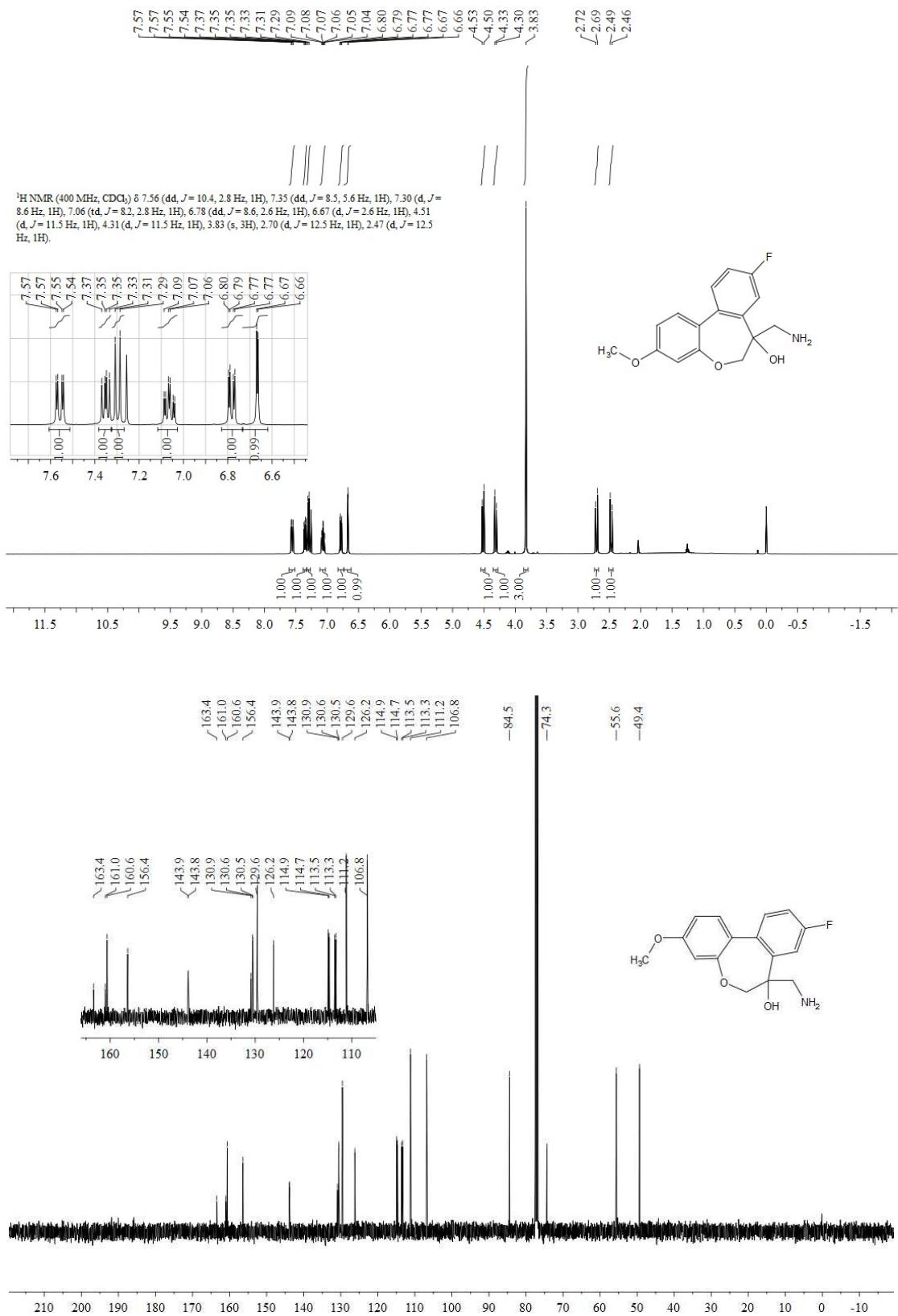
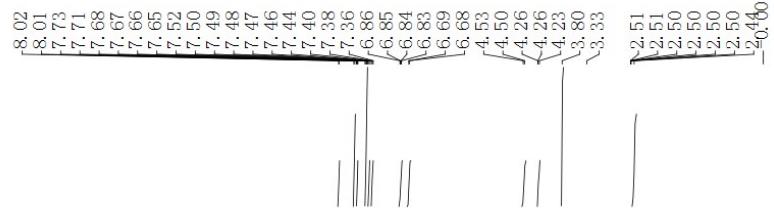


Fig. S60 NMR spectra of **6d**



¹H NMR (400 MHz, DMSO) δ 8.01 (d, *J* = 1.8 Hz, 1H), 7.72 (d, *J* = 7.4 Hz, 2H), 7.67 (dd, *J* = 8.0, 1.8 Hz, 1H), 7.52 – 7.47 (m, 3H), 7.45 (d, *J* = 8.6 Hz, 1H), 7.38 (t, *J* = 7.3 Hz, 1H), 6.84 (dd, *J* = 8.6, 2.6 Hz, 1H), 6.69 (d, *J* = 2.5 Hz, 1H), 5.76 (s, OH), 4.52 (d, *J* = 11.4 Hz, 1H), 4.27 – 4.22 (m, 1H), 3.80 (s, 3H), 2.48 – 2.39 (m, 2H).

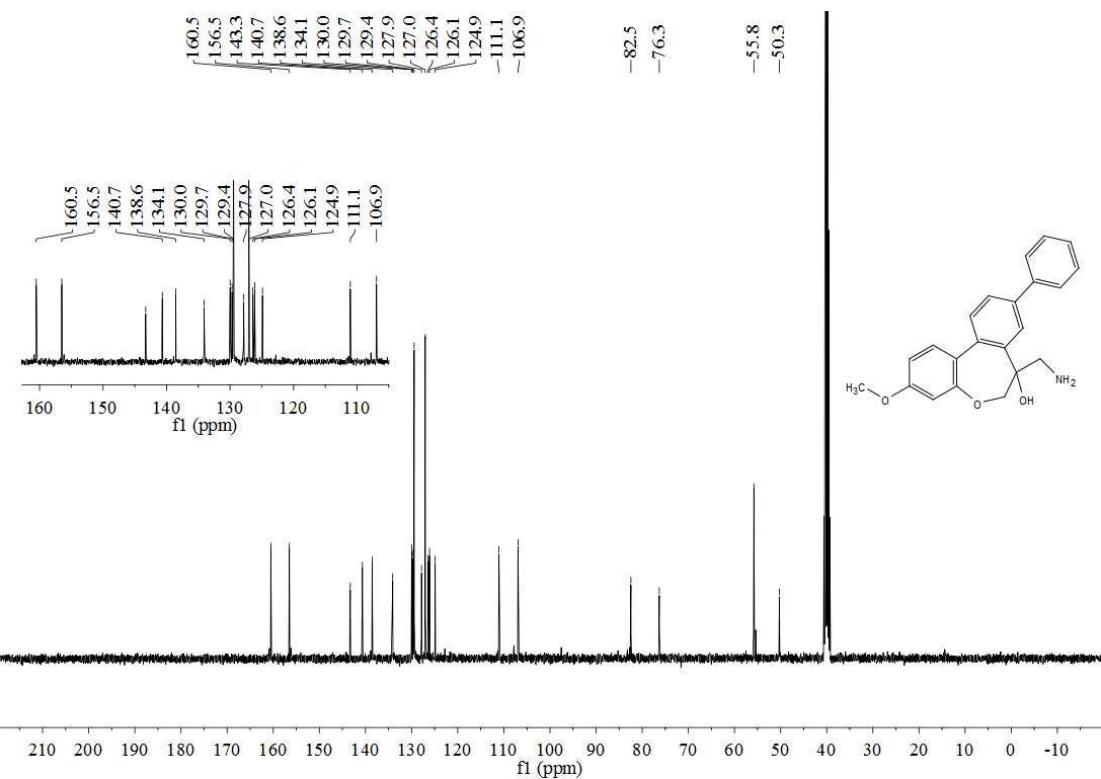
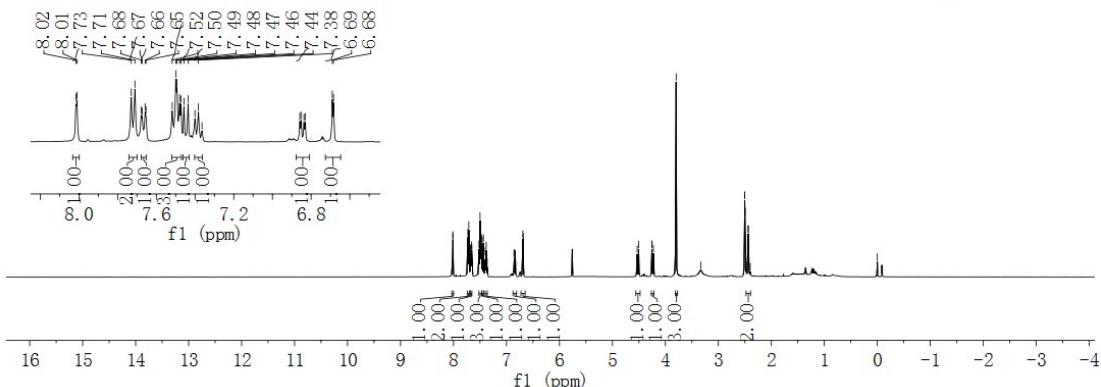
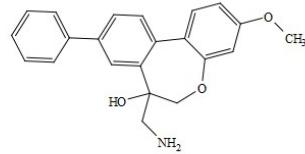


Fig. S61 NMR spectra of **6e**

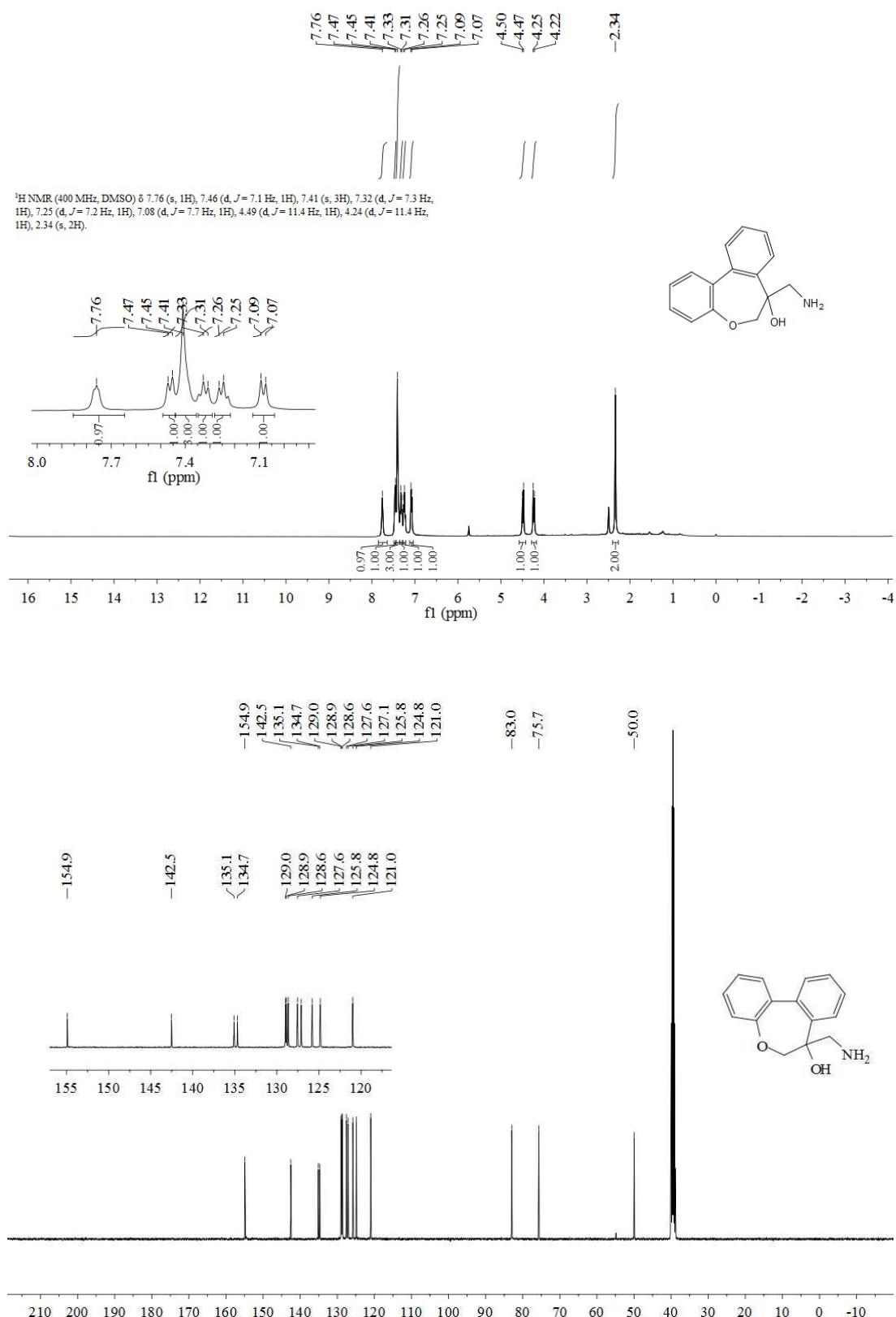


Fig. S62 NMR spectra of **6f**

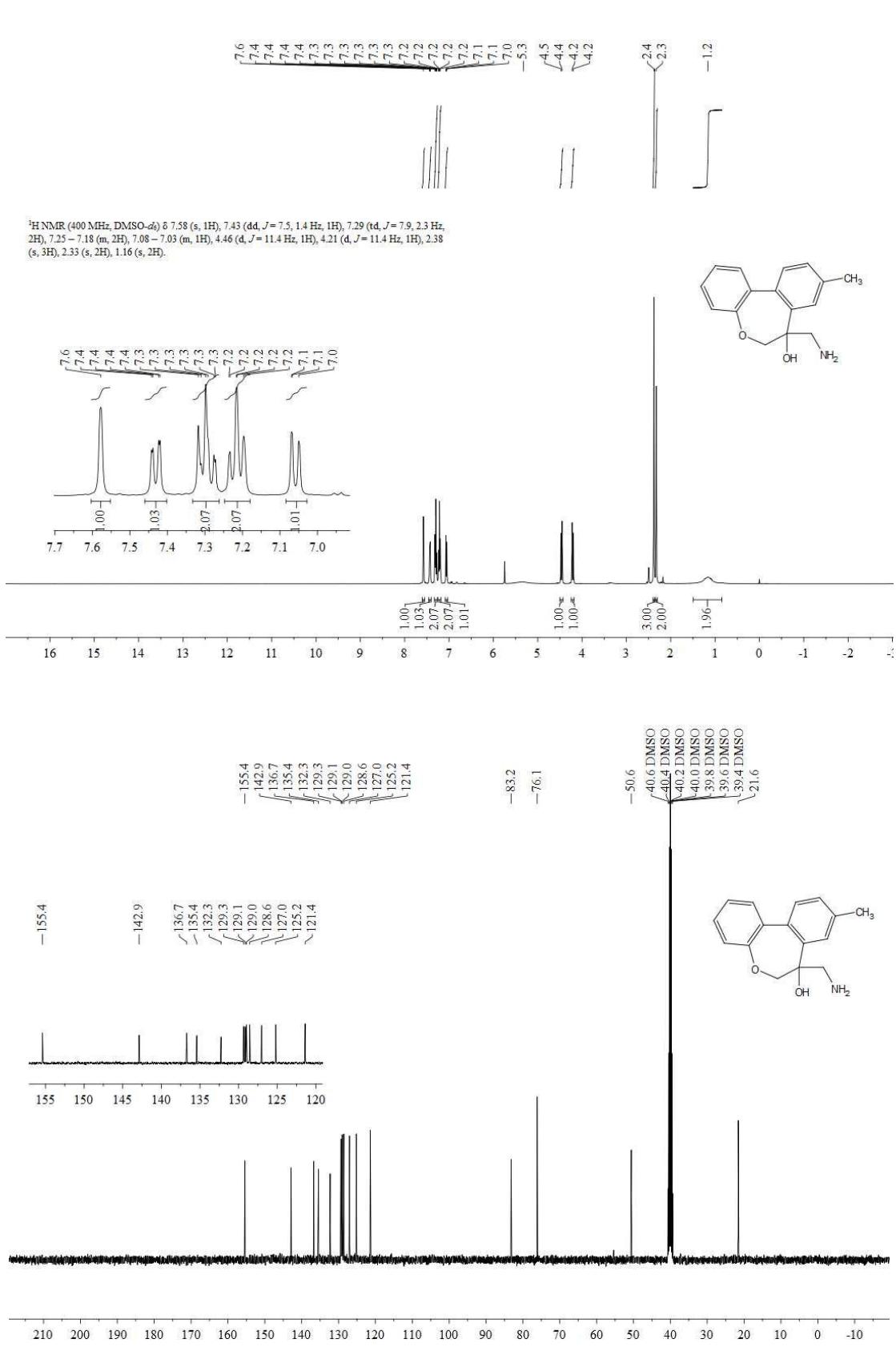


Fig. S63 NMR spectra of **6g**

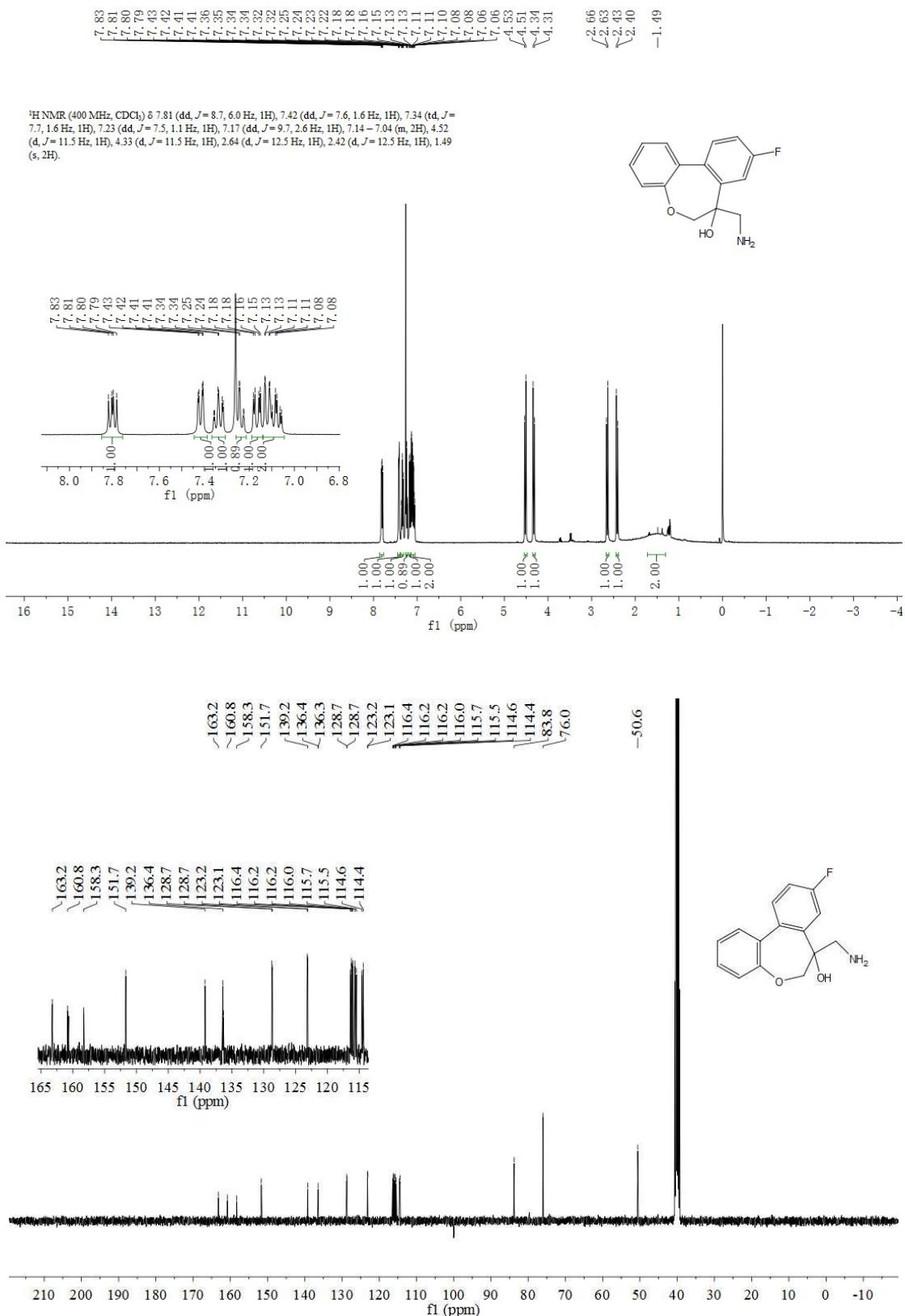


Fig. S64 NMR spectra of **6h**

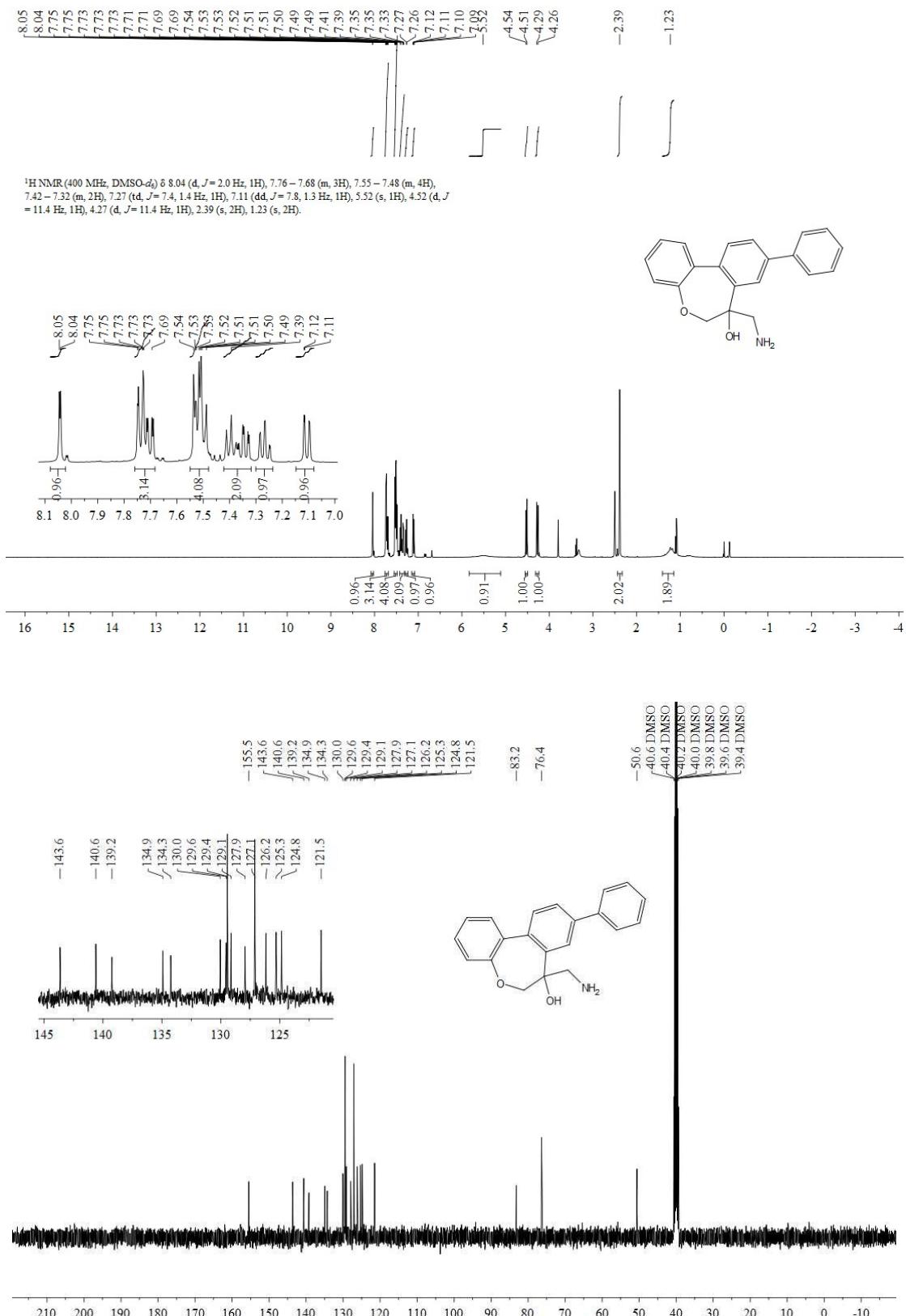


Fig. S65 NMR spectra of **6i**

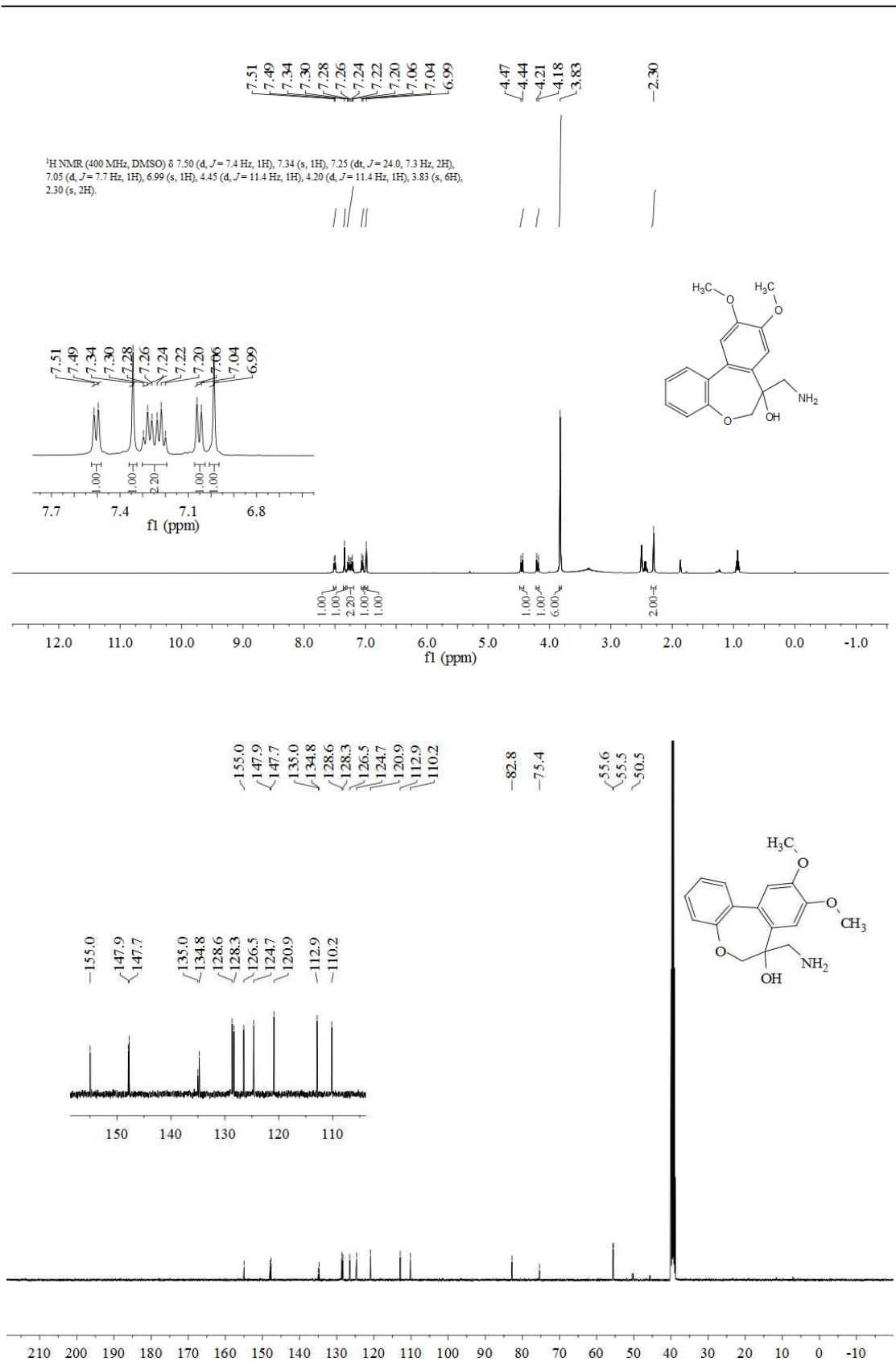


Fig. S66 NMR spectra of **6j**

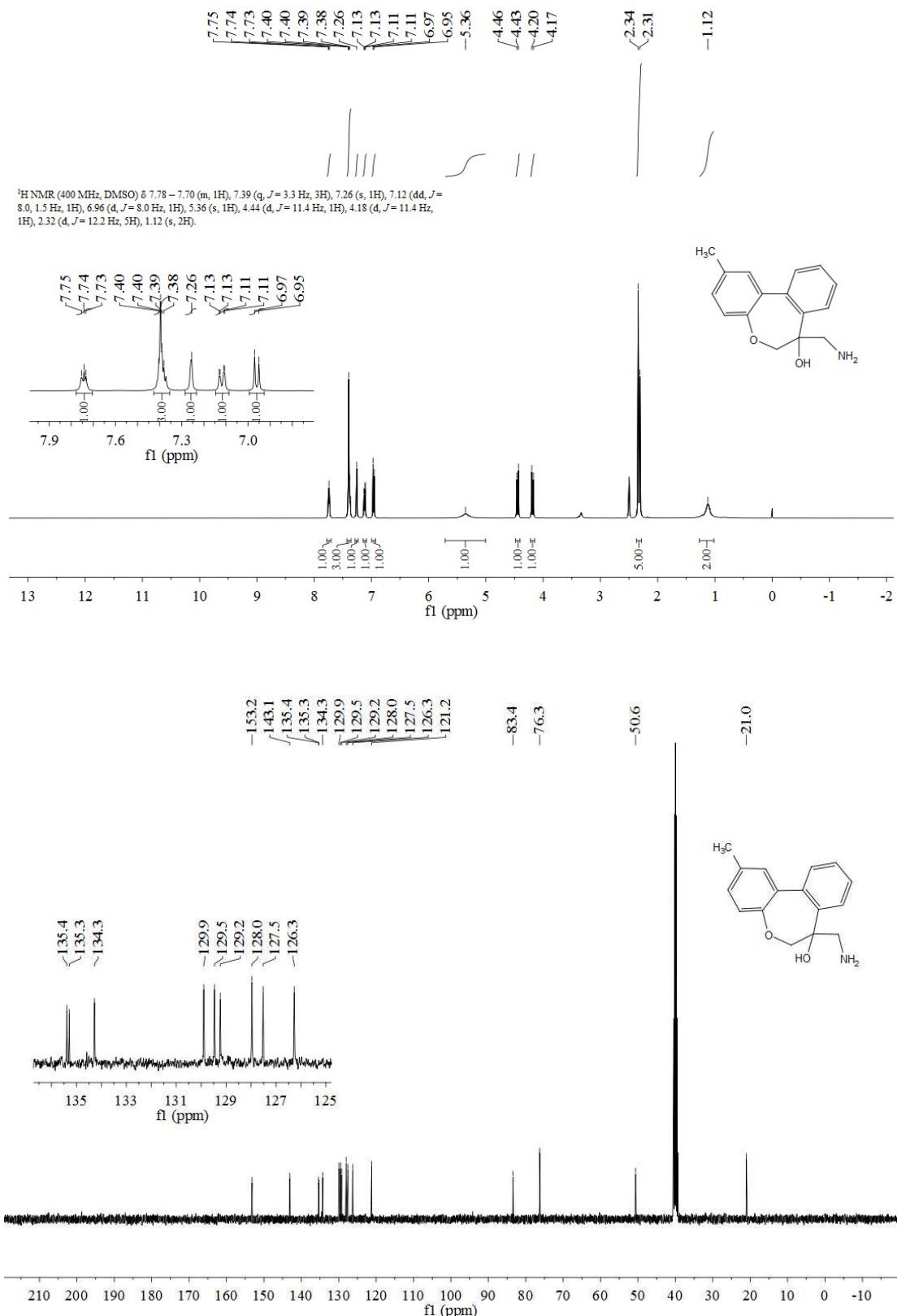


Fig. S67 NMR spectra of **6k**

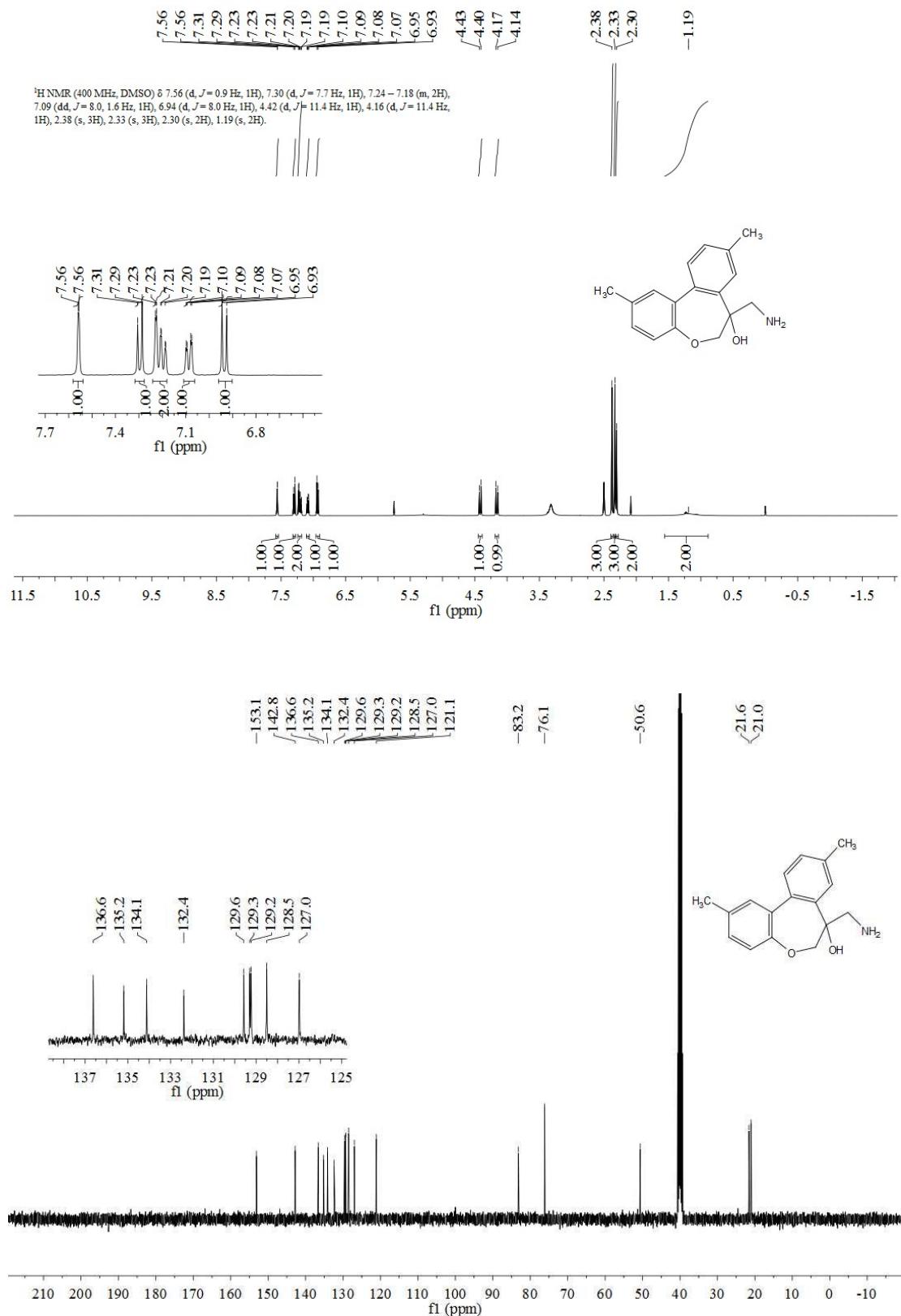


Fig. S68 NMR spectra of **6l**

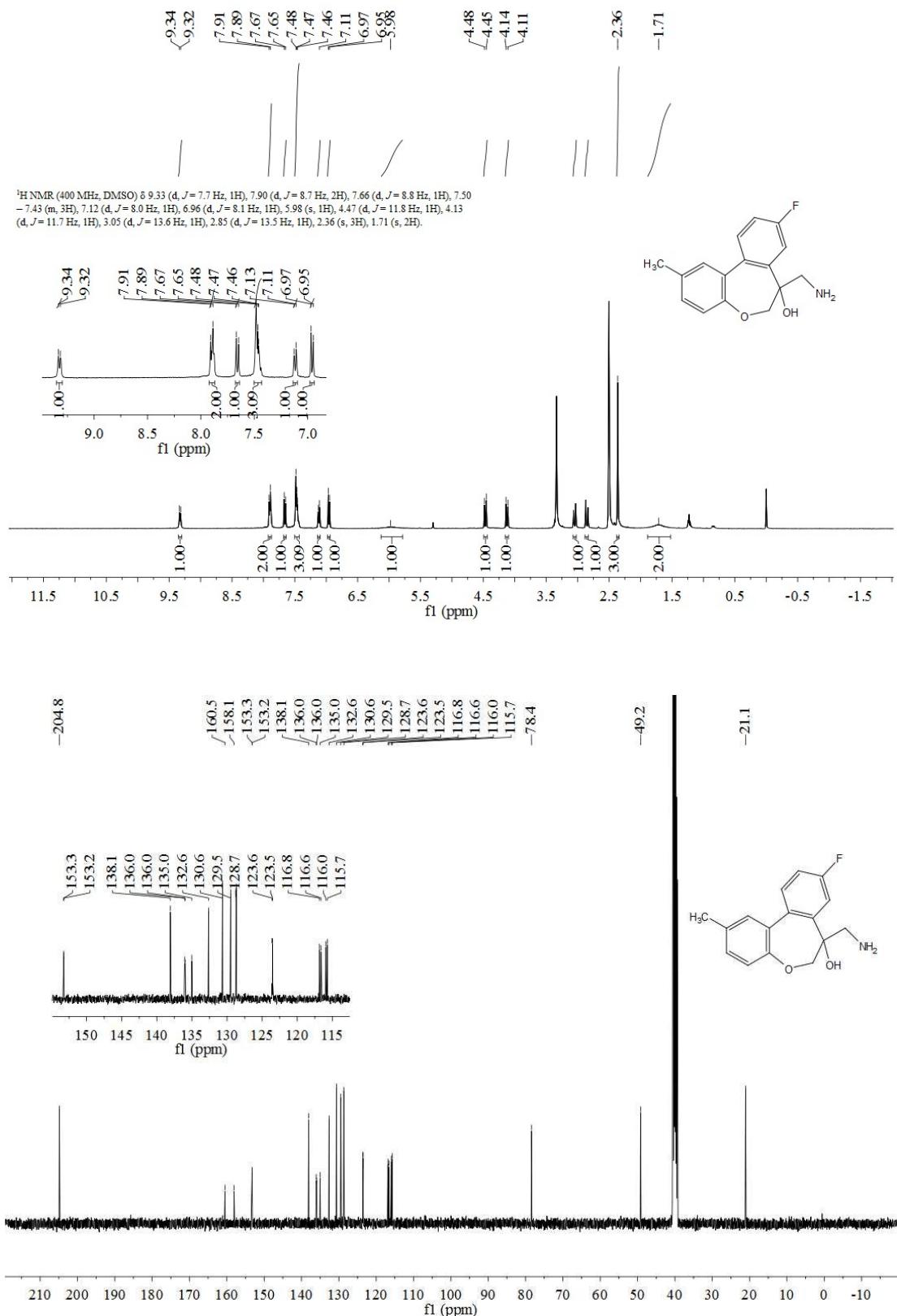


Fig. S69 NMR spectra of **6m**

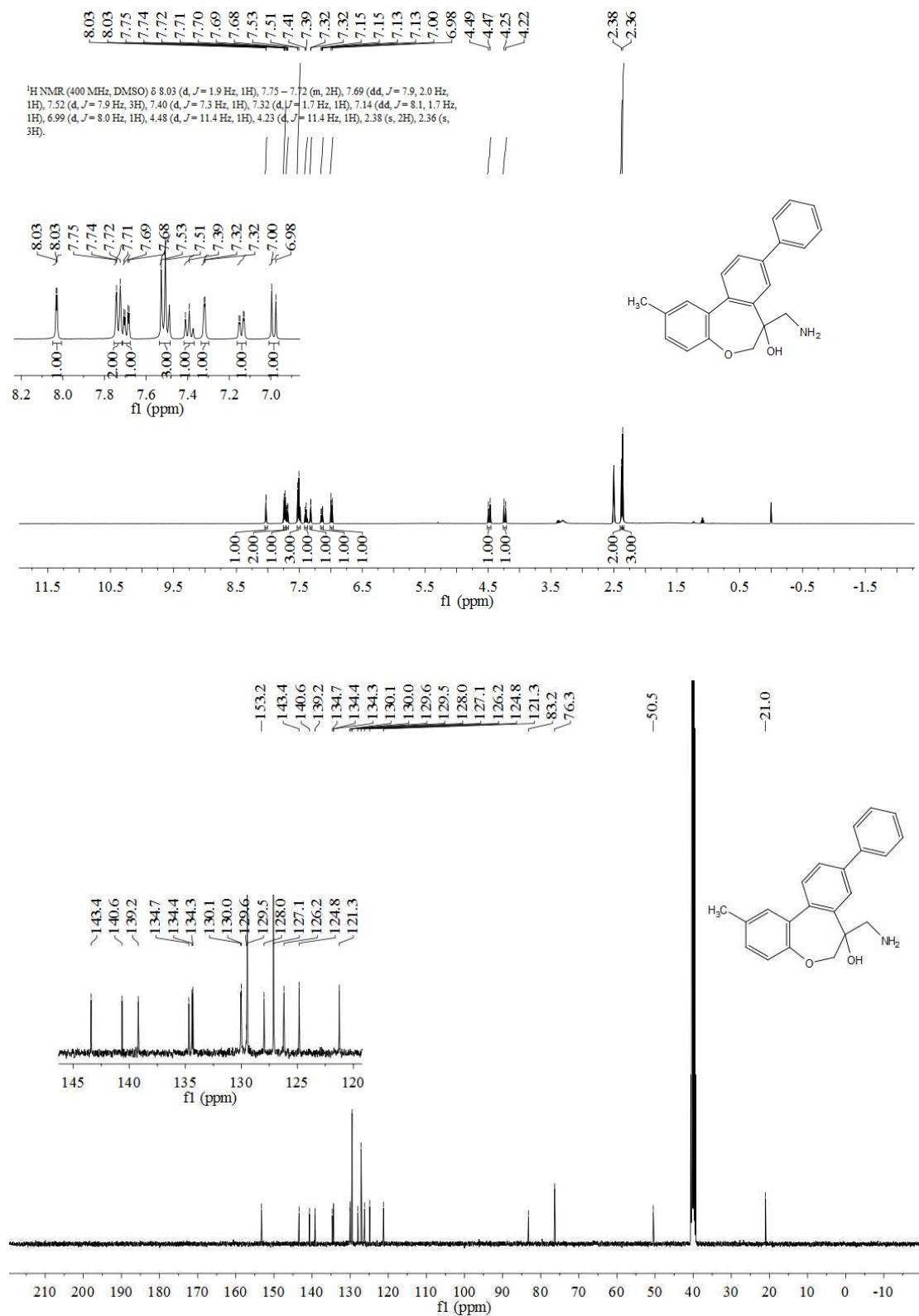


Fig. S70 NMR spectra of **6n**

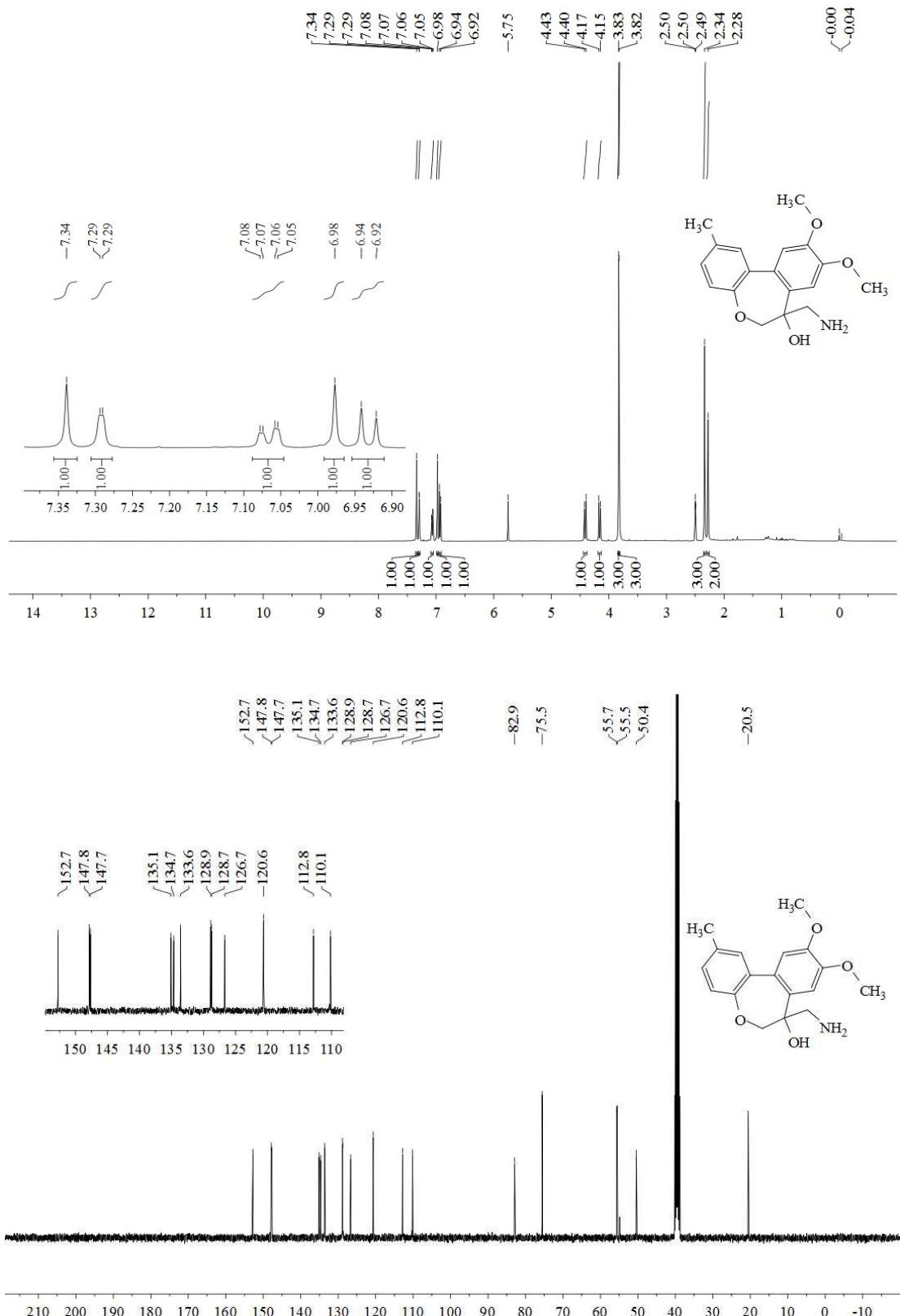


Fig. S71 NMR spectra of **6o**

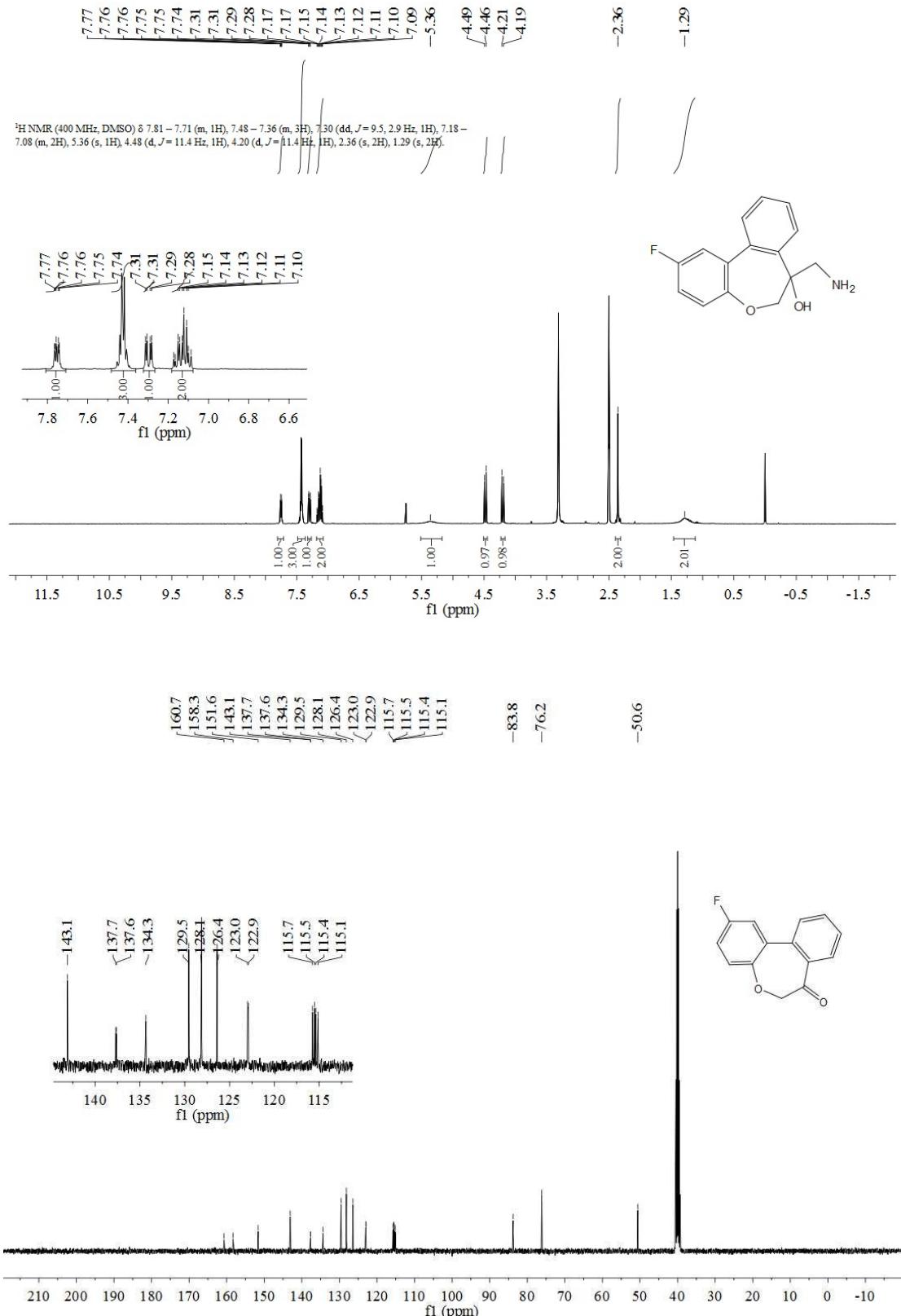


Fig. S72 NMR spectra of **6p**

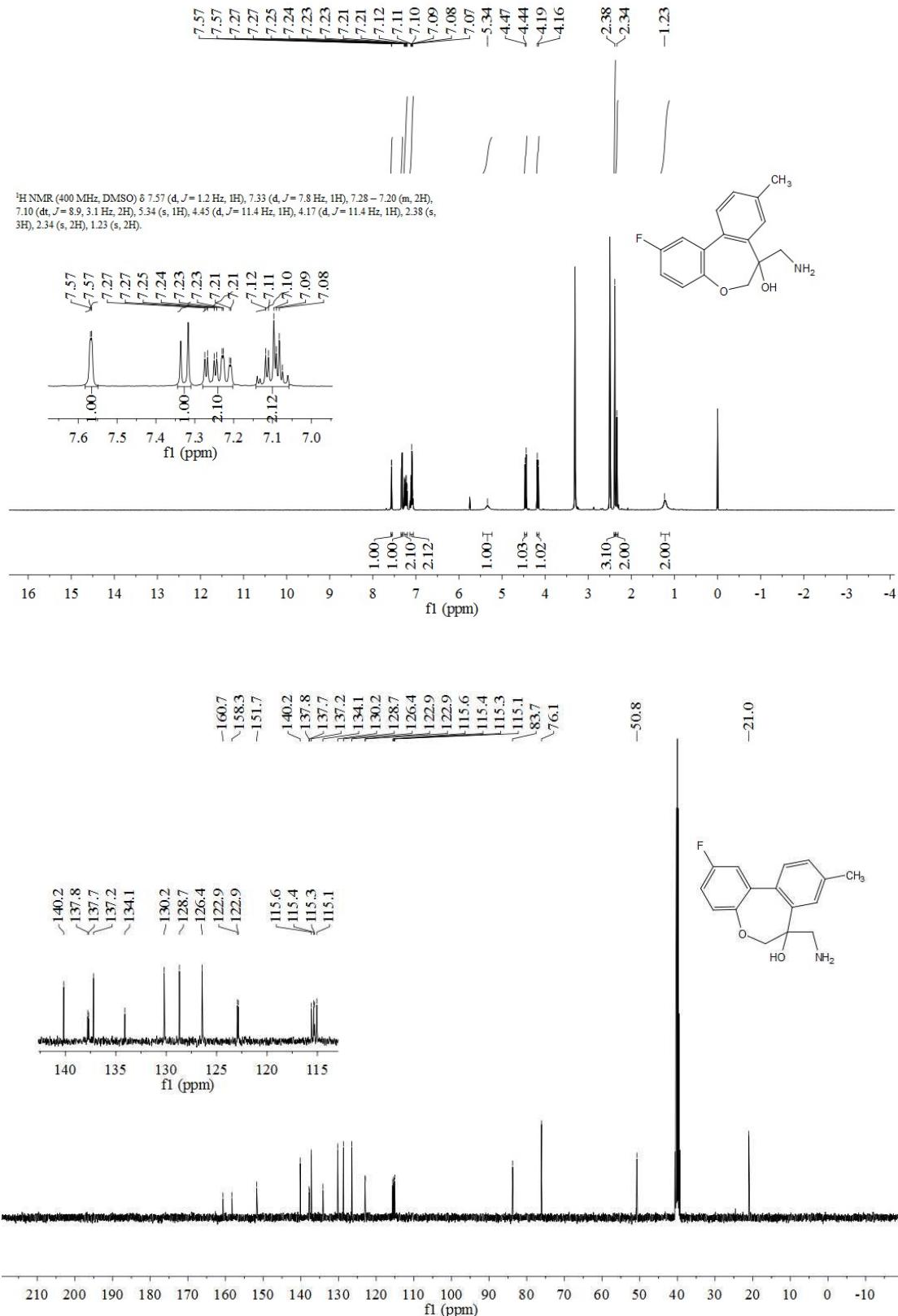


Fig. S73 NMR spectra of **6q**

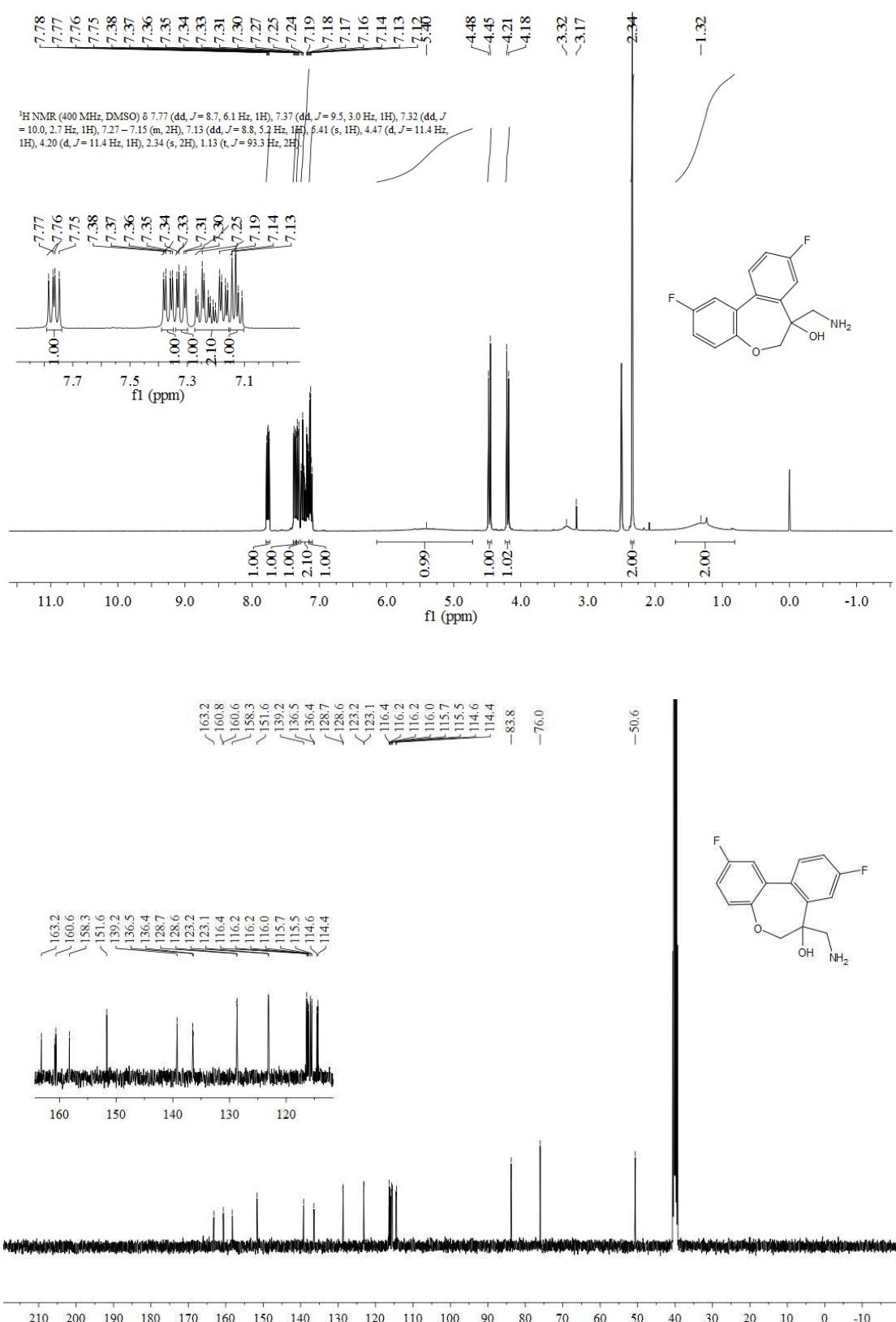


Fig. S74 NMR spectra of **6r**

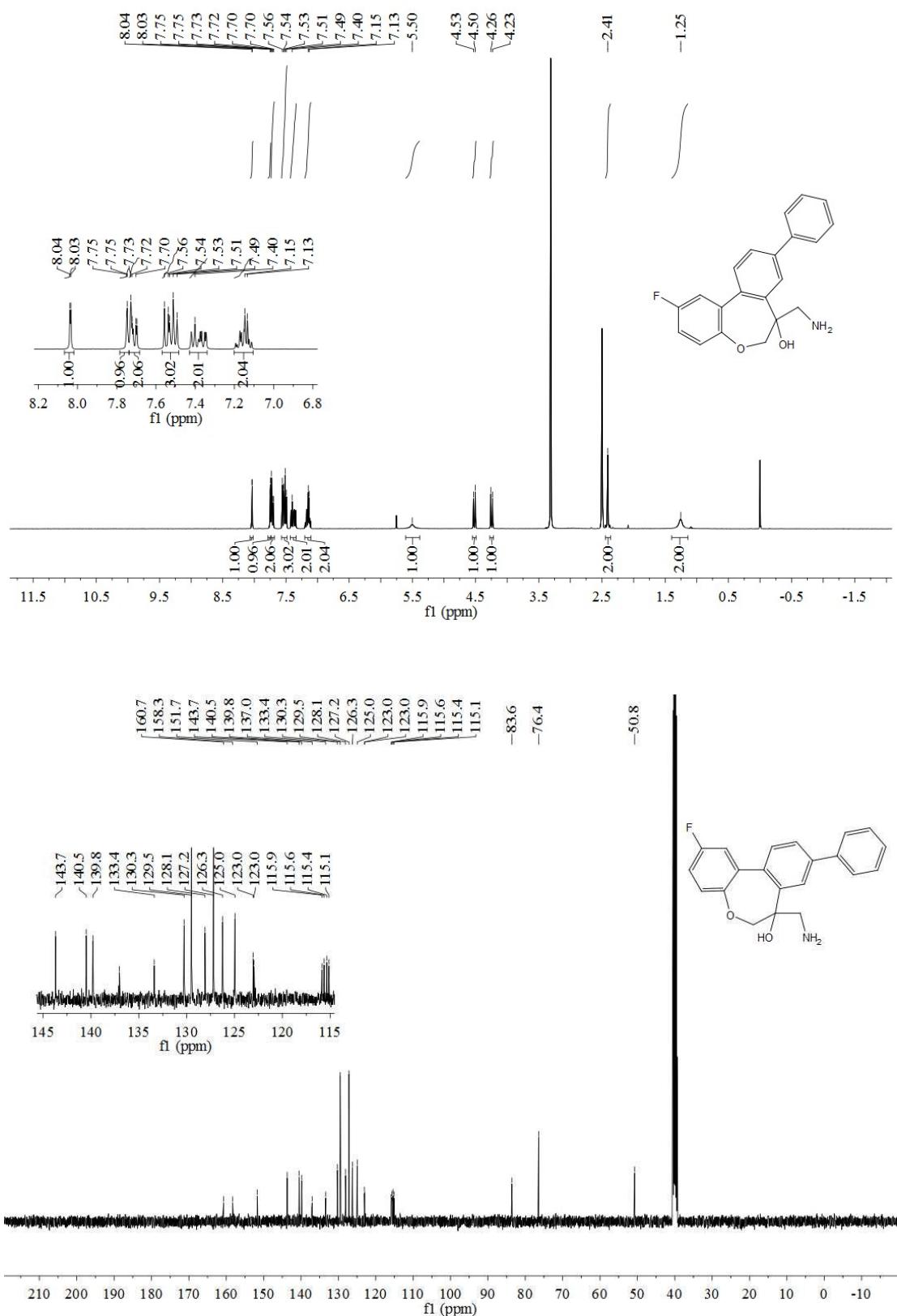


Fig. S75 NMR spectra of **6s**

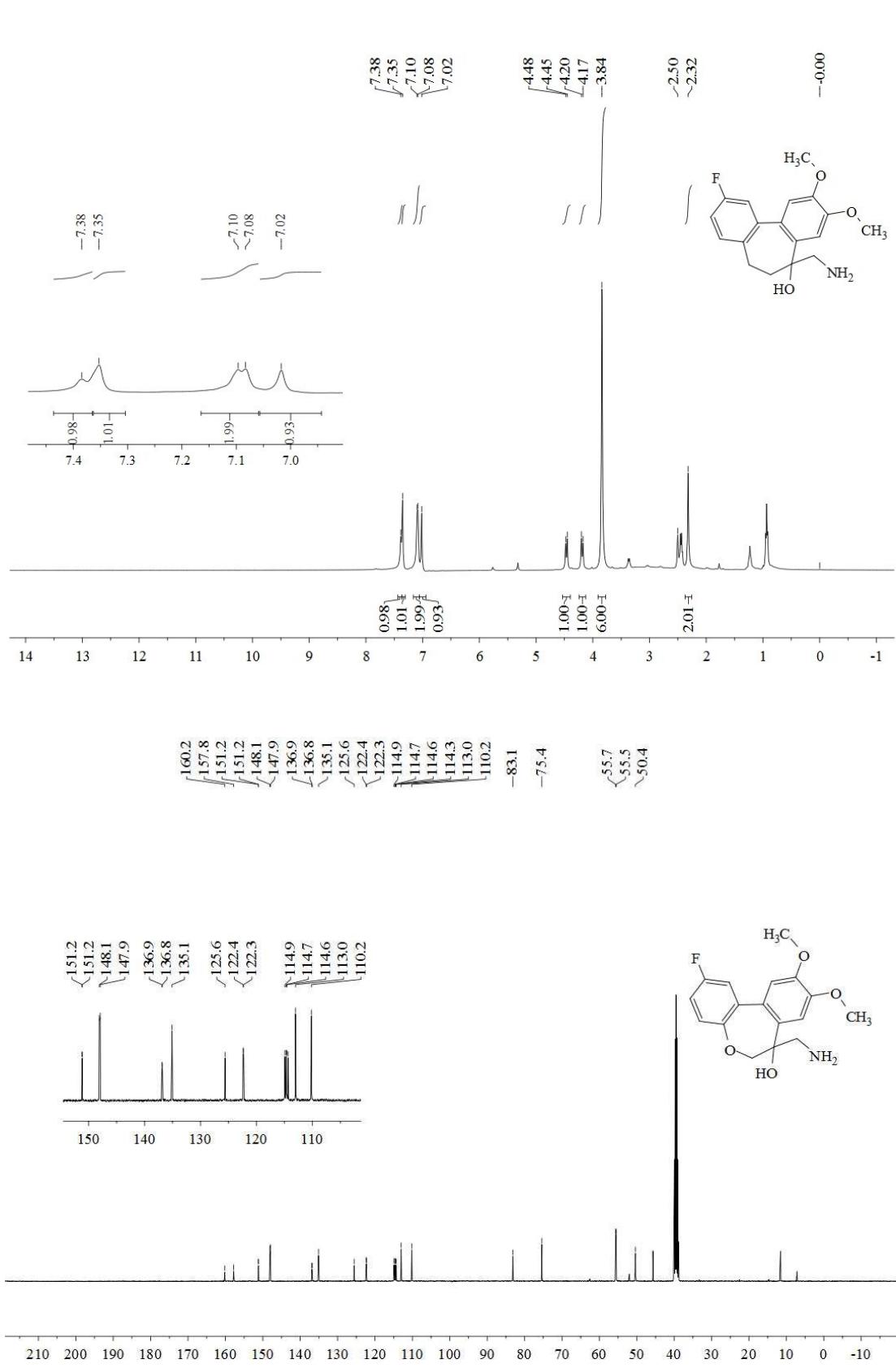


Fig. S76 NMR spectra of **6t**

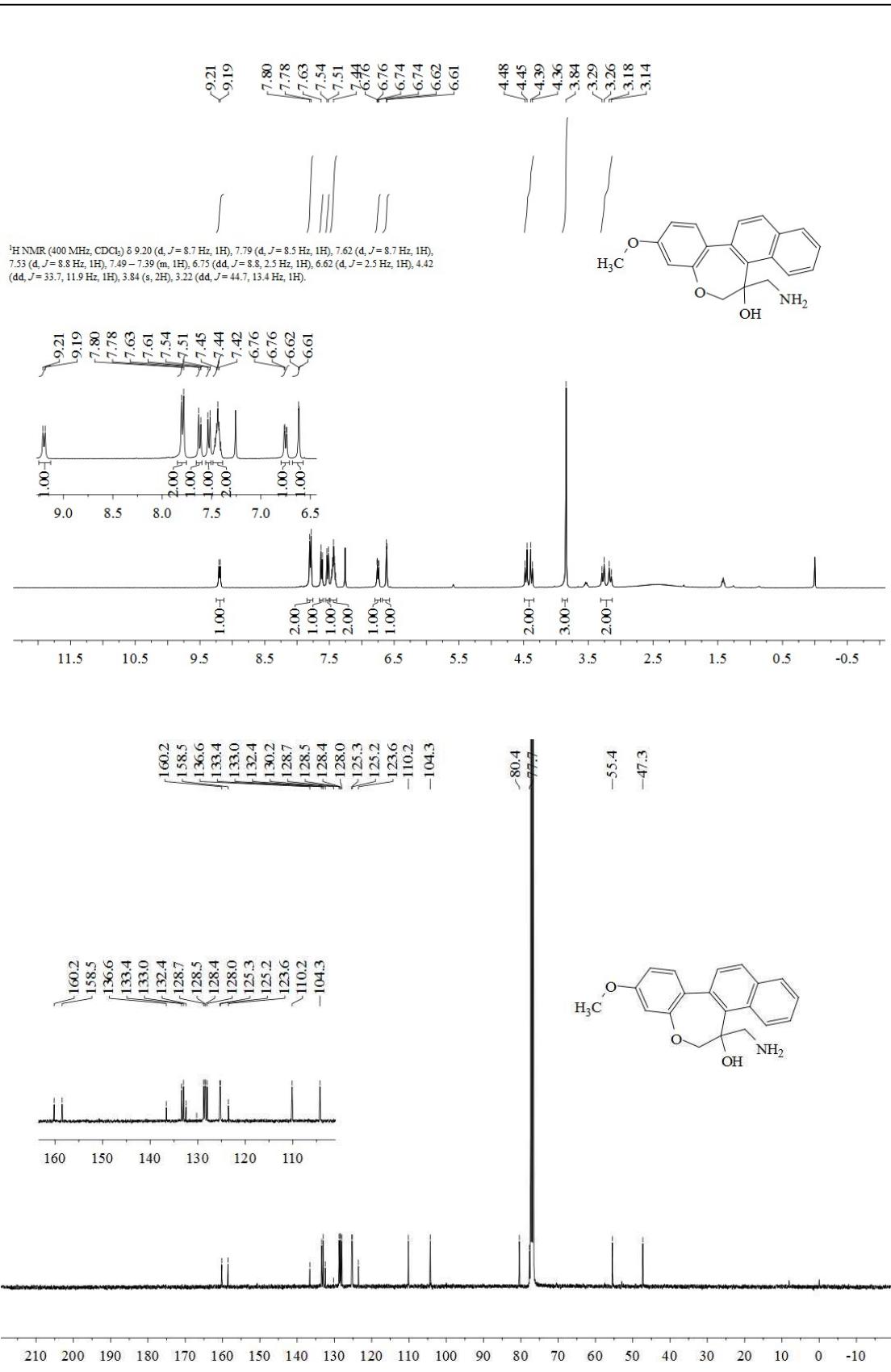


Fig. S77 NMR spectra of **6u**

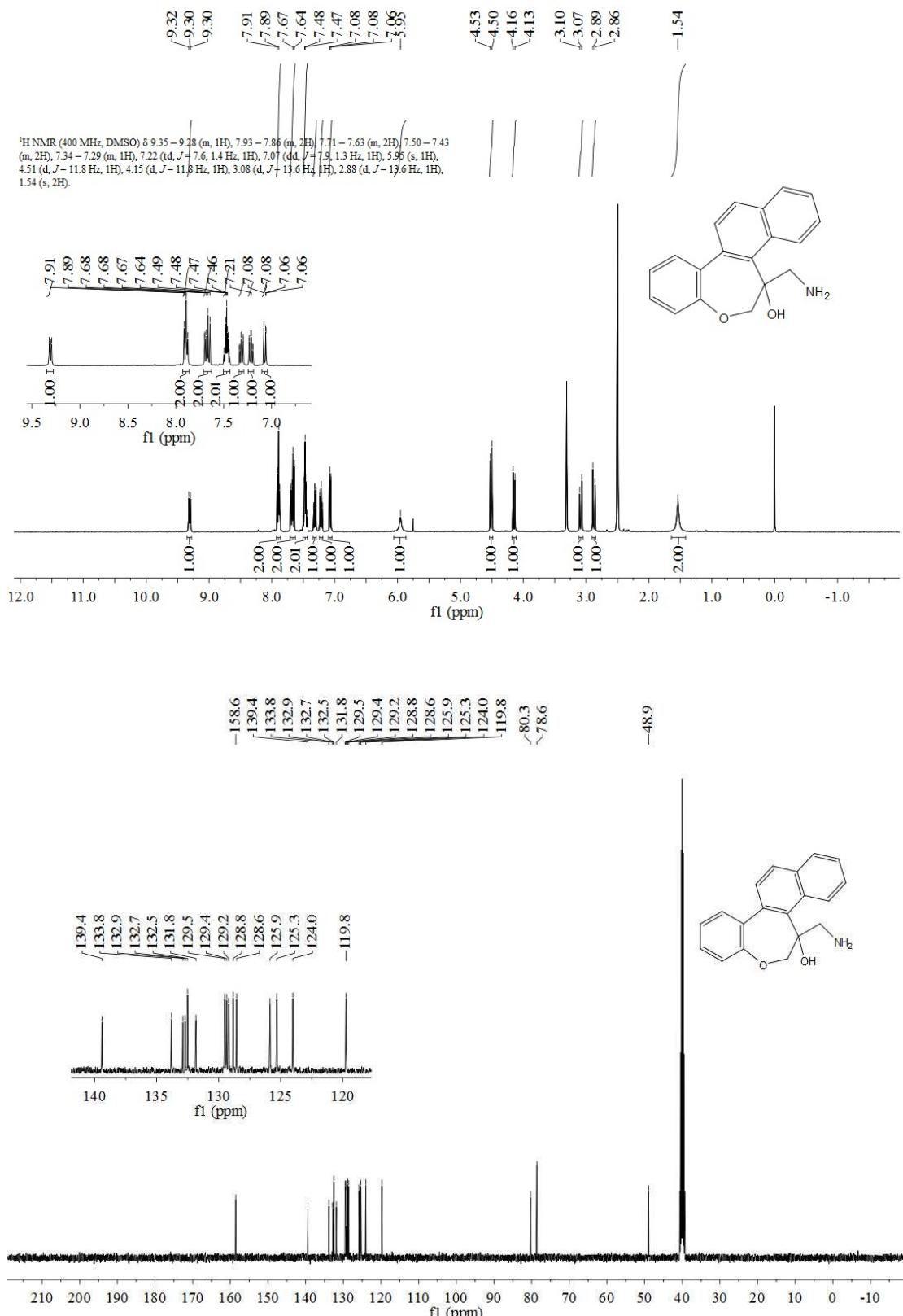


Fig. S78 NMR spectra of **6v**

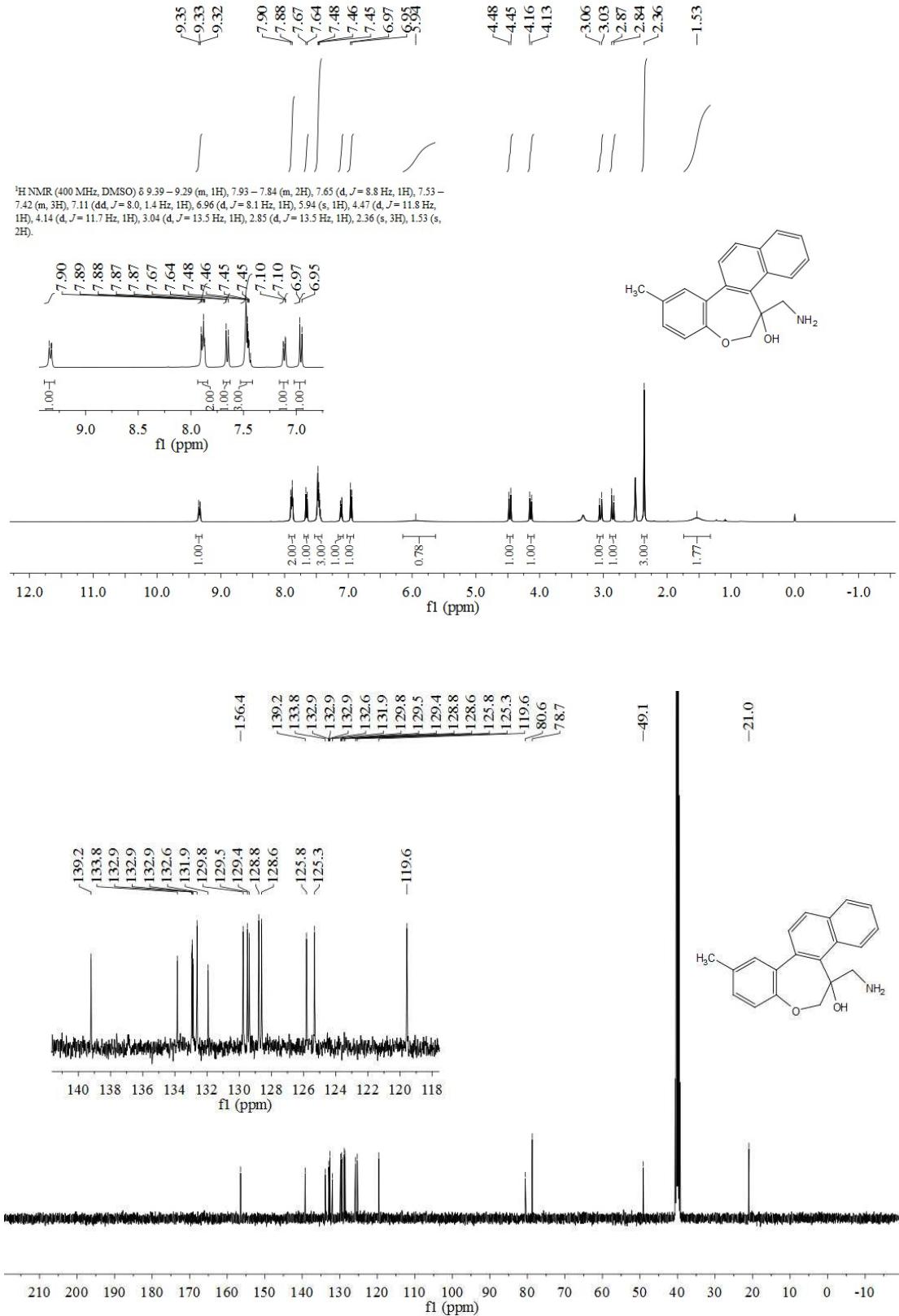


Fig. S79 NMR spectra of **6w**

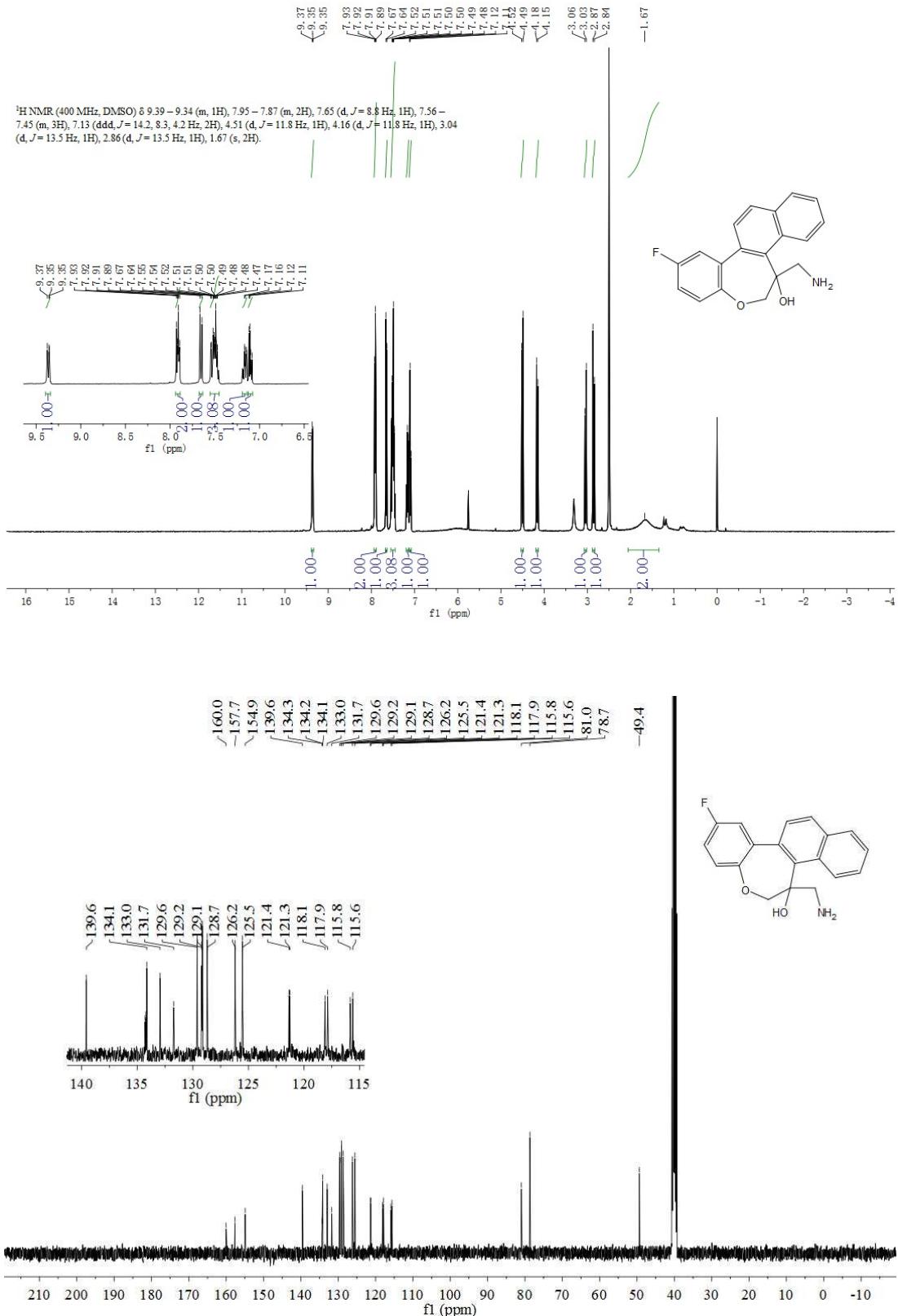


Fig. S80 NMR spectra of **6x**

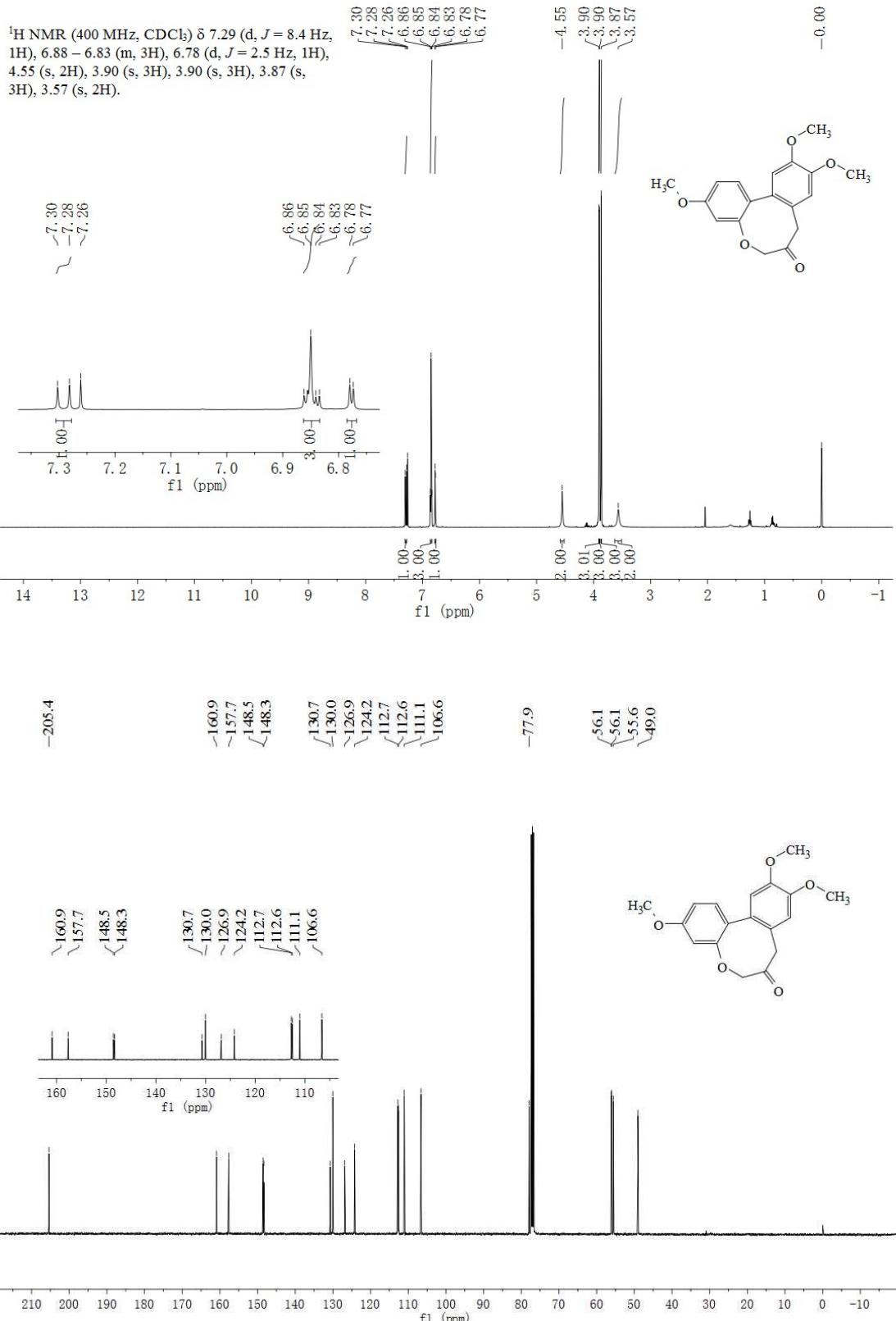


Fig. S81 NMR spectra of **7a**

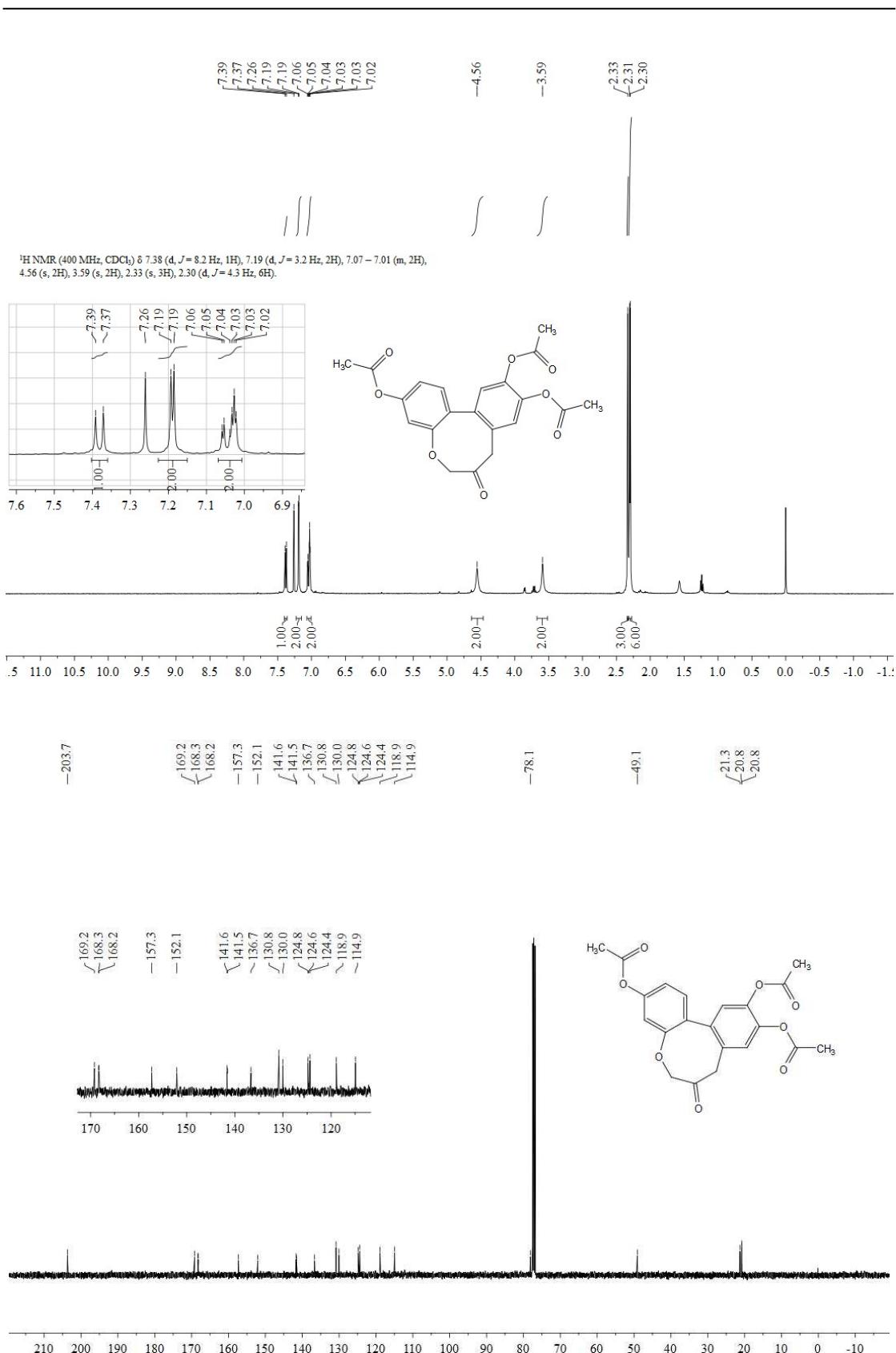


Fig. S82 NMR spectra of **7a₁**

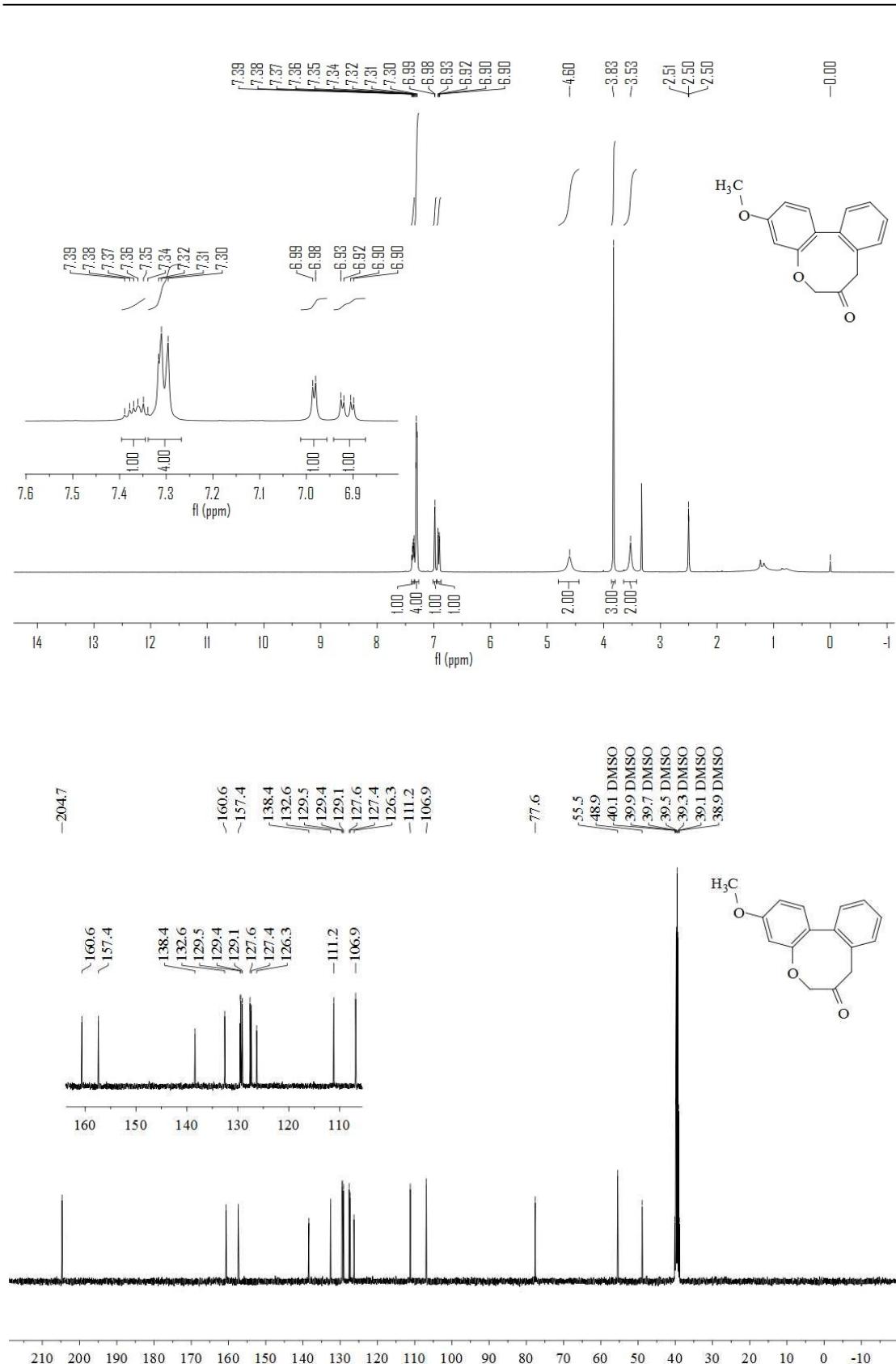


Fig. S83 NMR spectra of **7b**

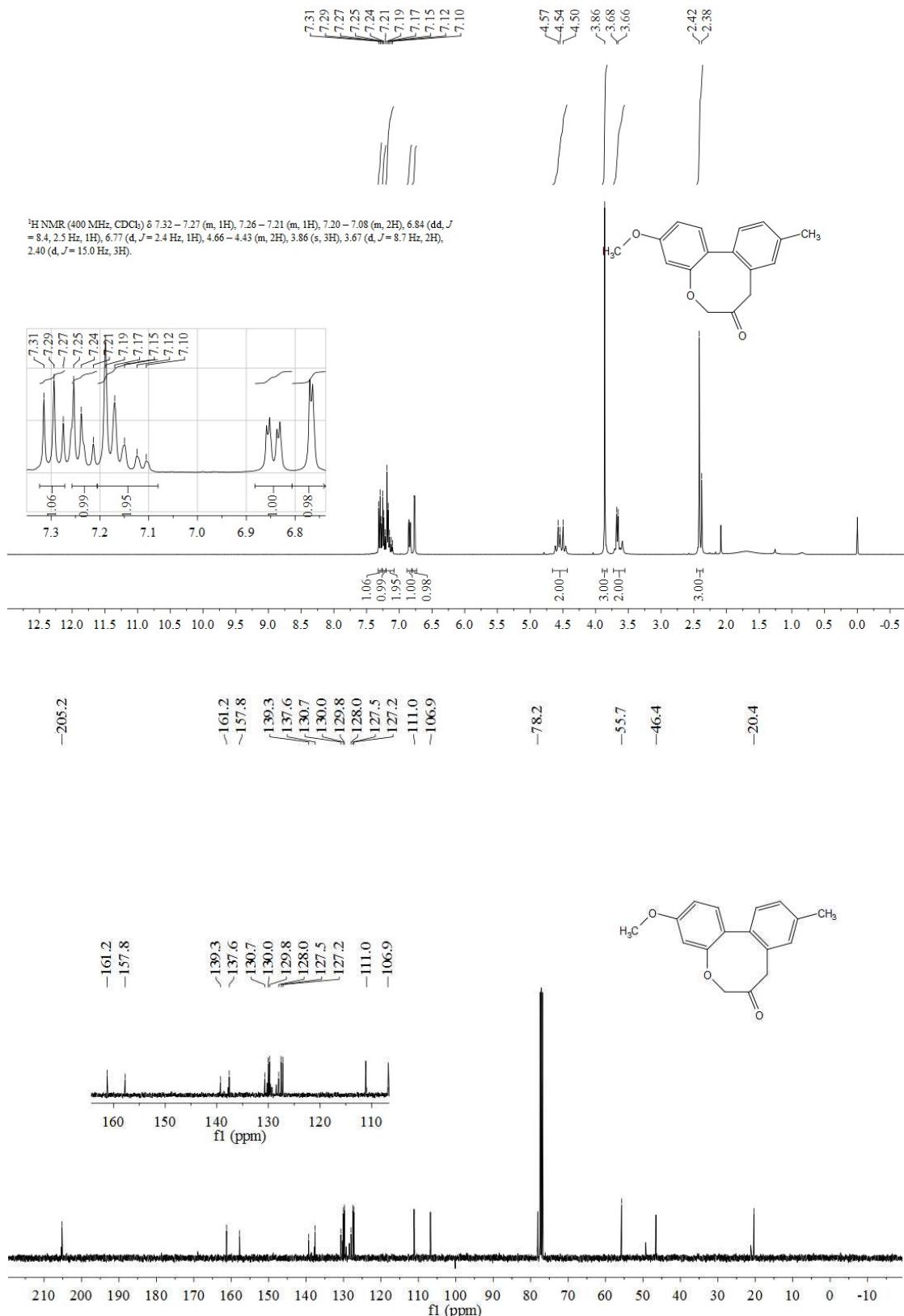


Fig. S84 NMR spectra of 7c

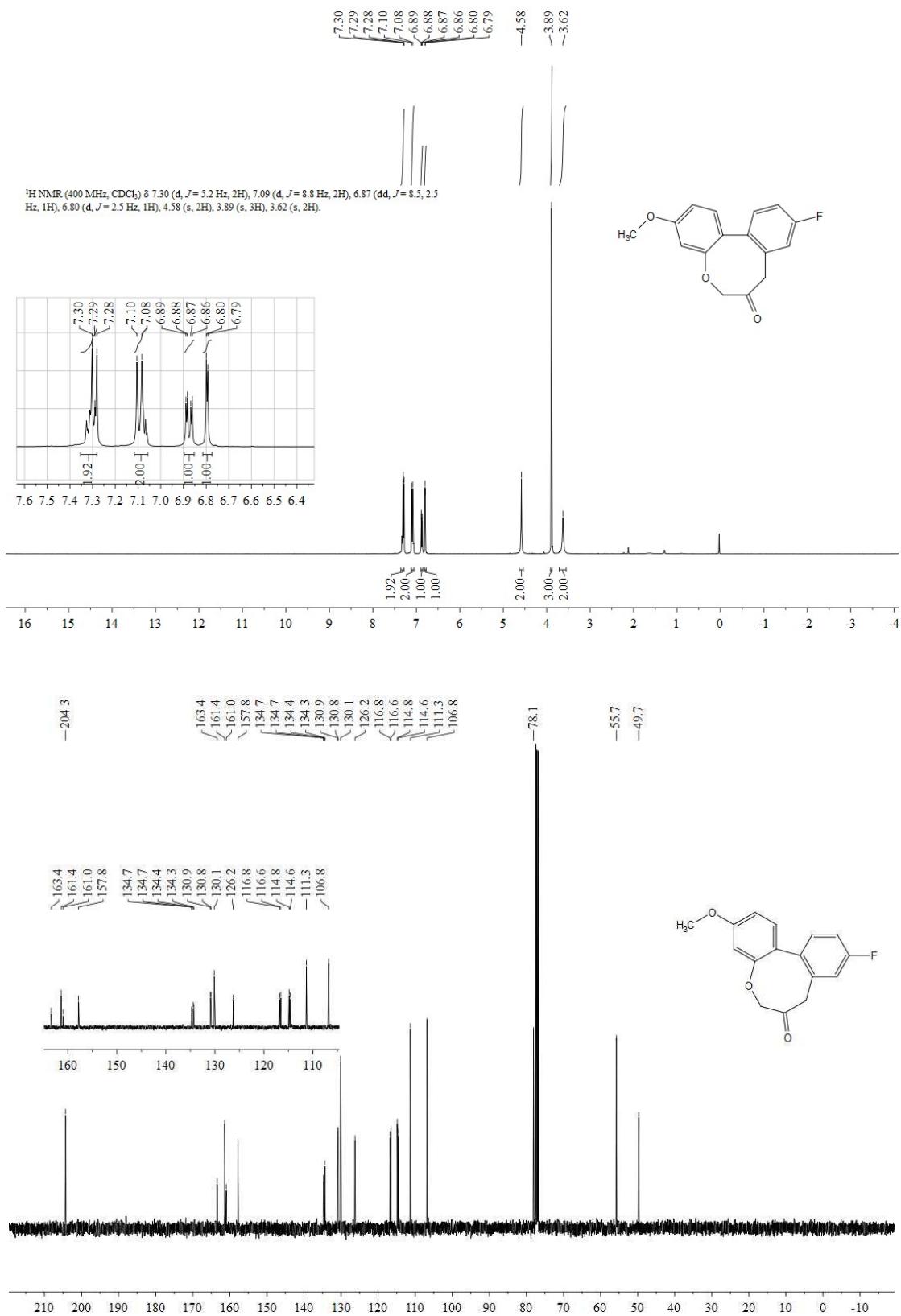


Fig. S85 NMR spectra of 7d

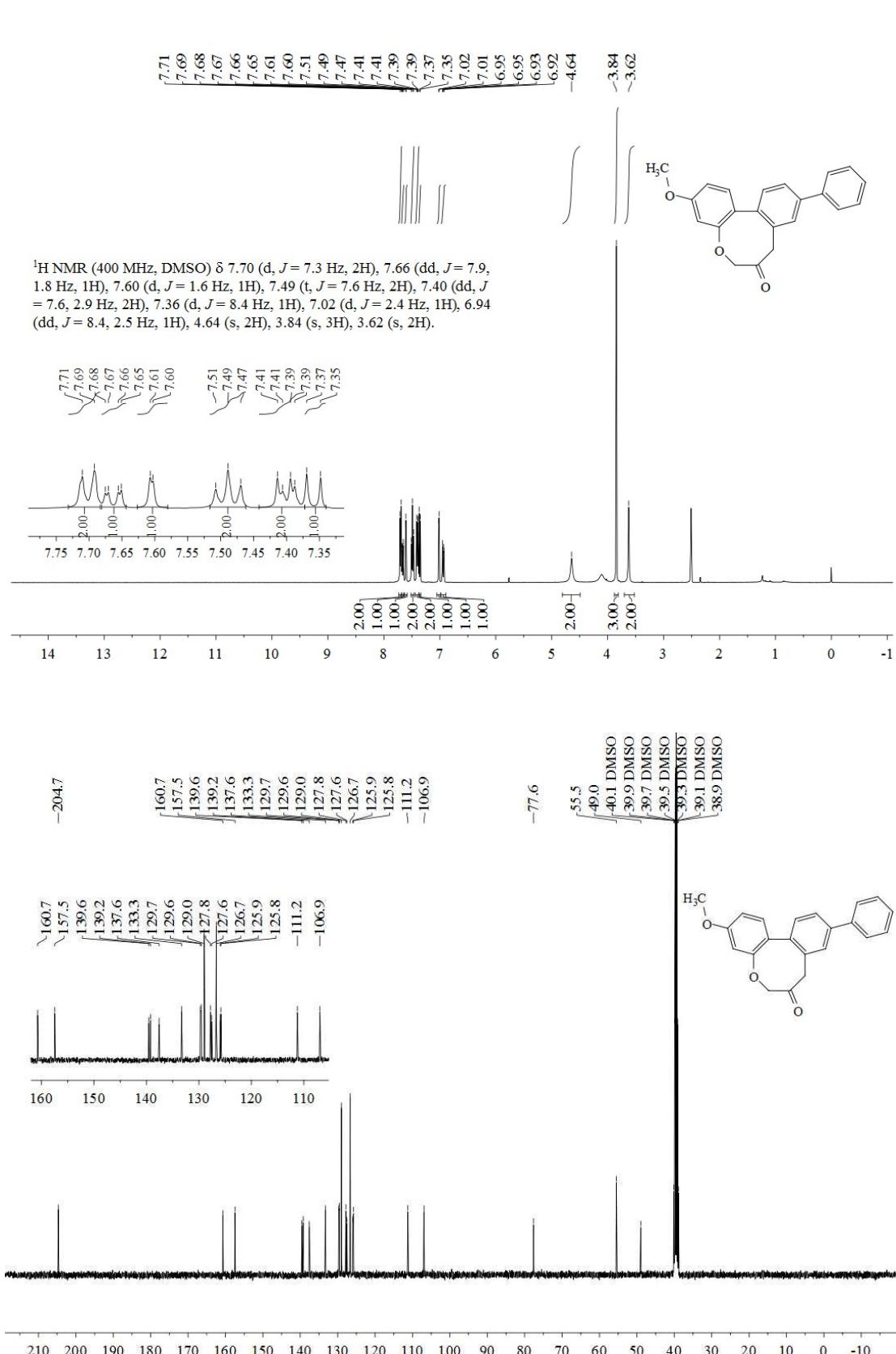


Fig. S86 NMR spectra of 7e



Fig. S87 NMR spectra of **7f**

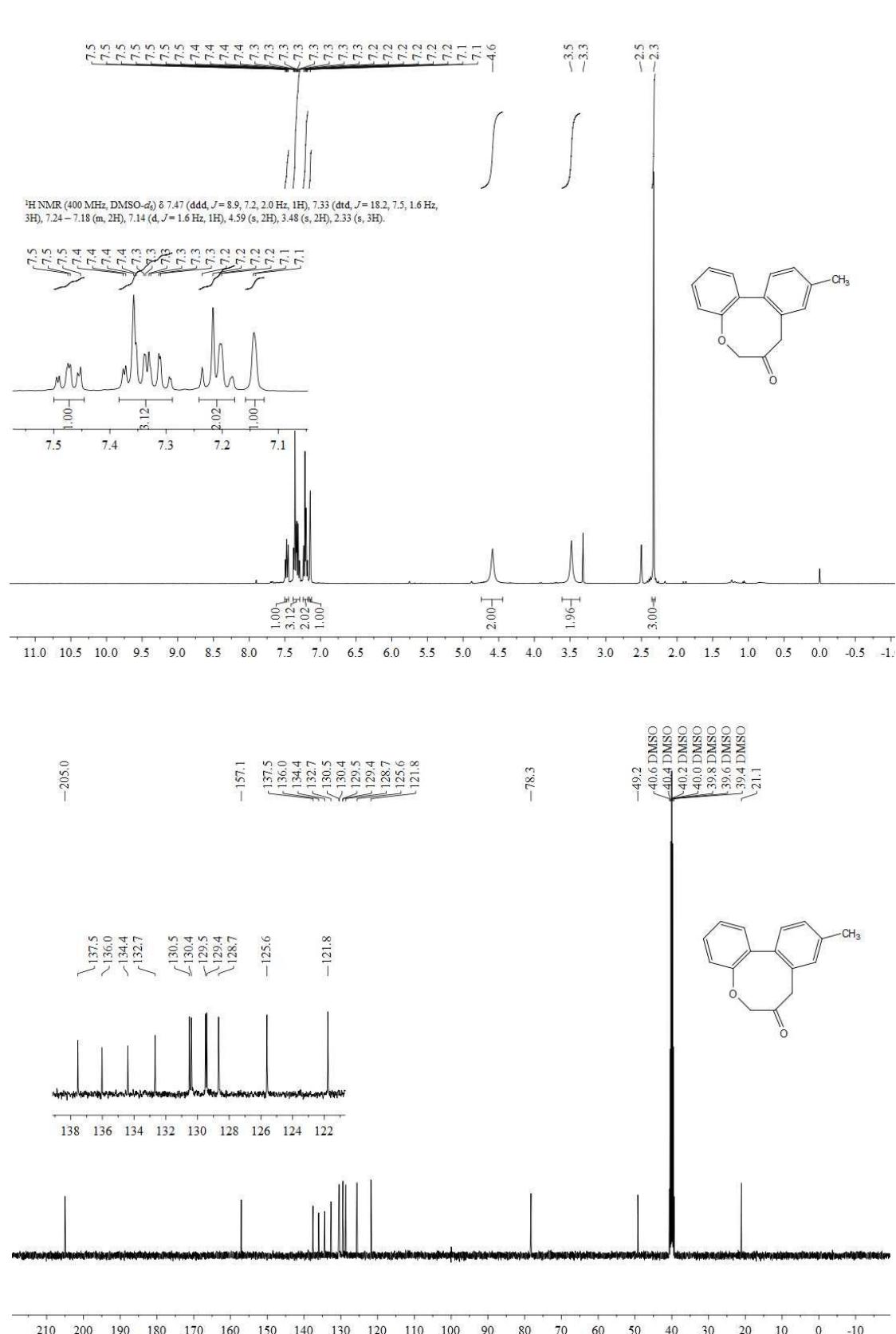


Fig. S88 NMR spectra of **7g**

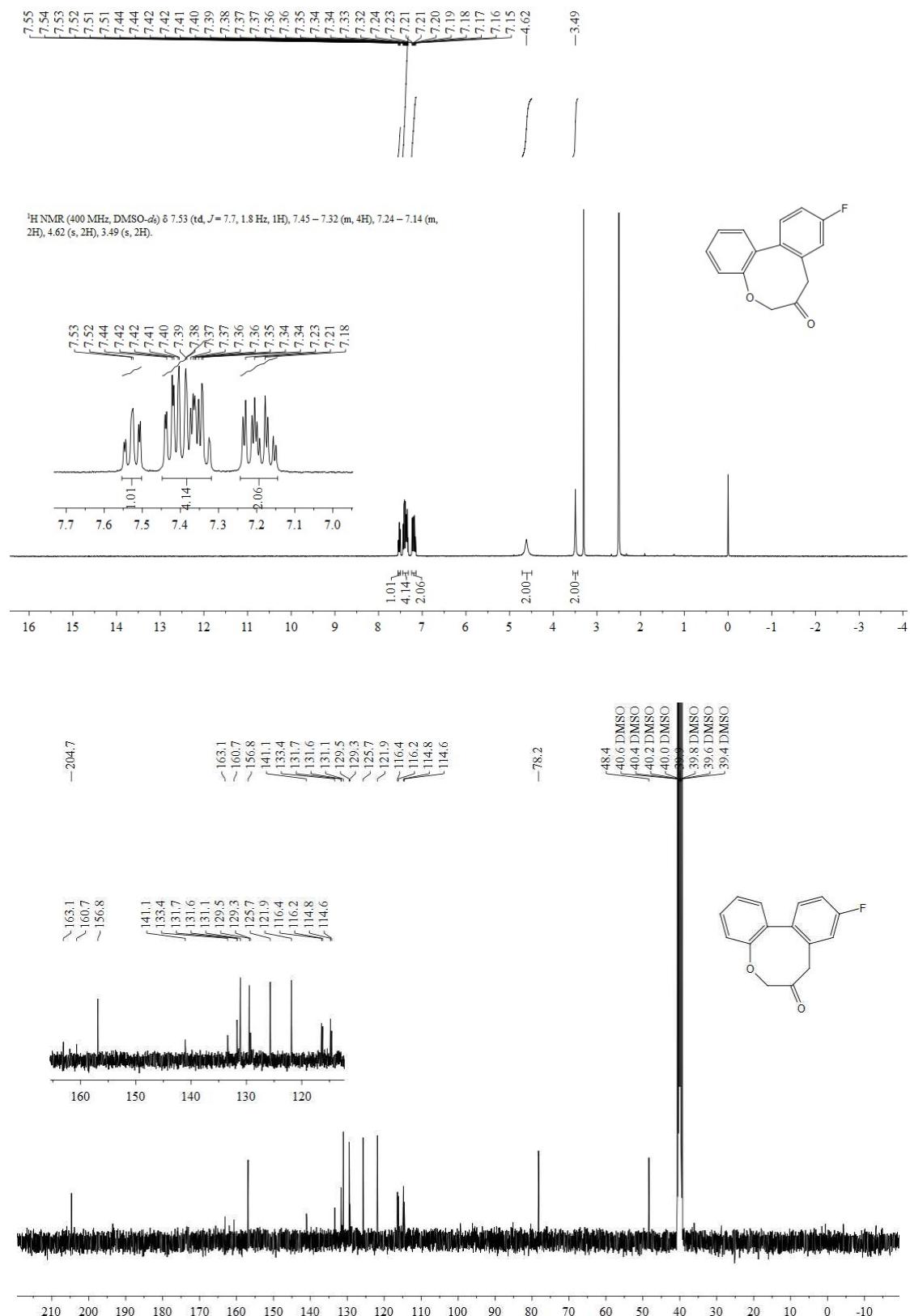


Fig. S89 NMR spectra of **7h**

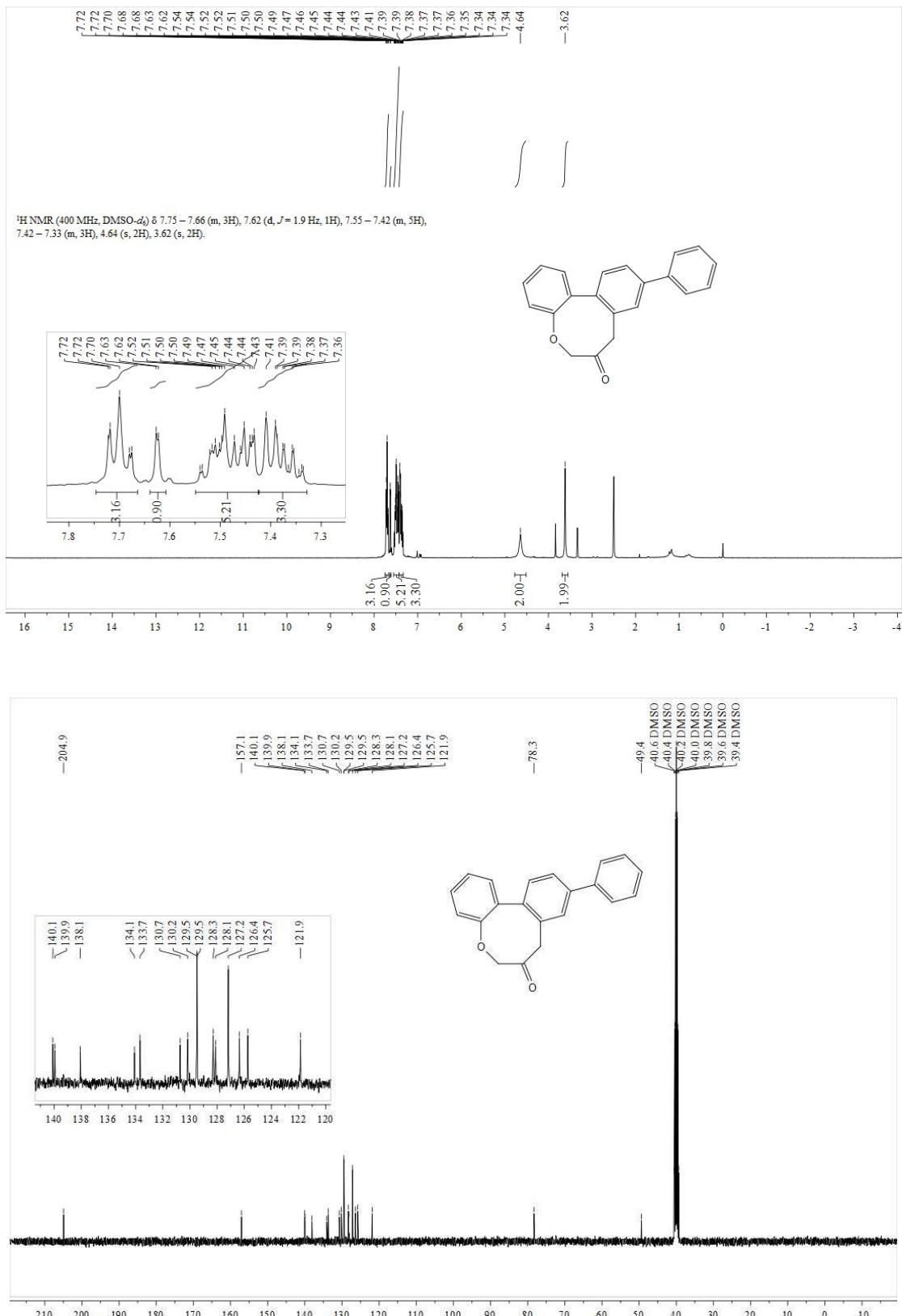


Fig. S90 NMR spectra of **7i**

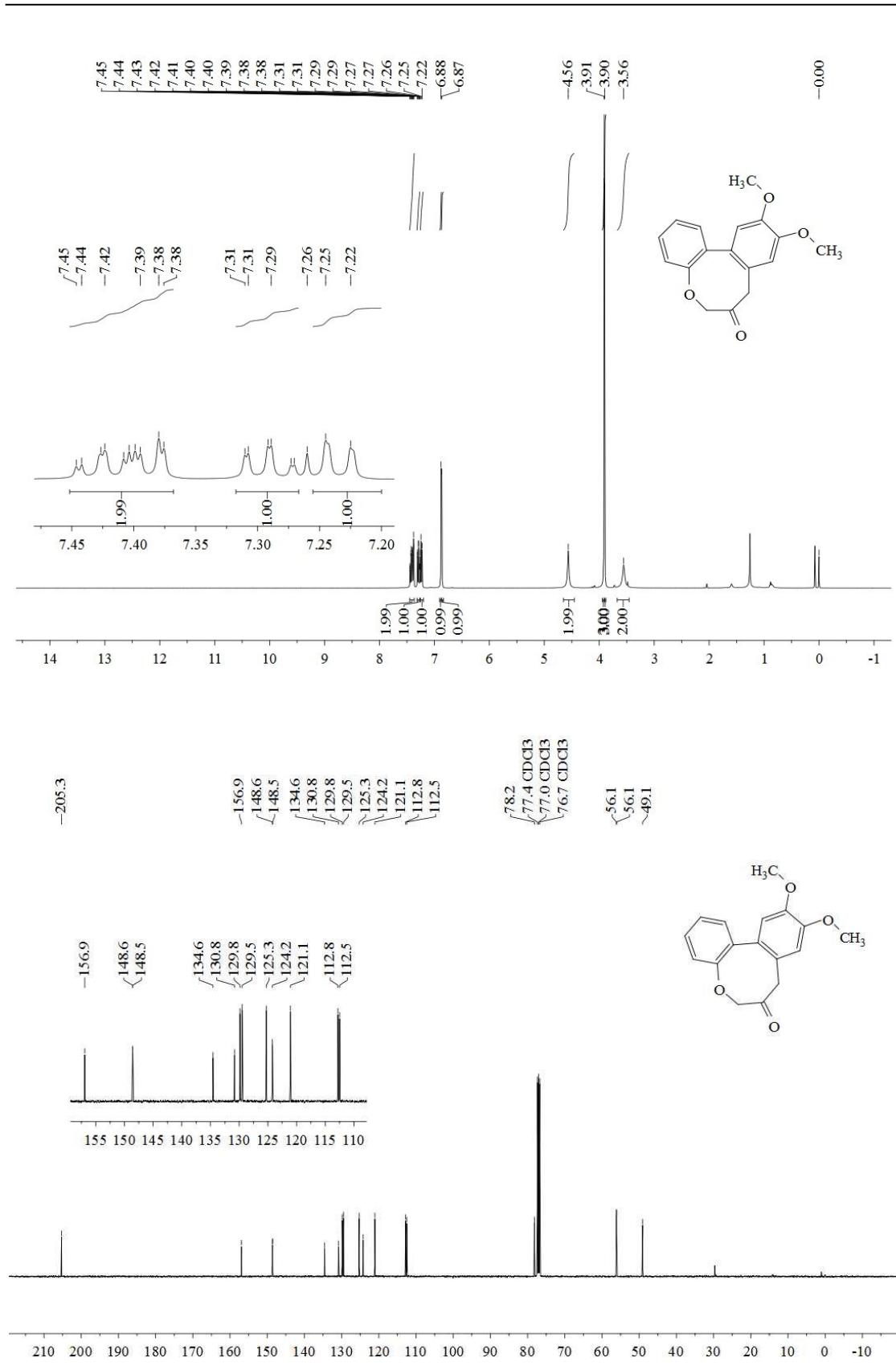


Fig. S91 NMR spectra of **7j**

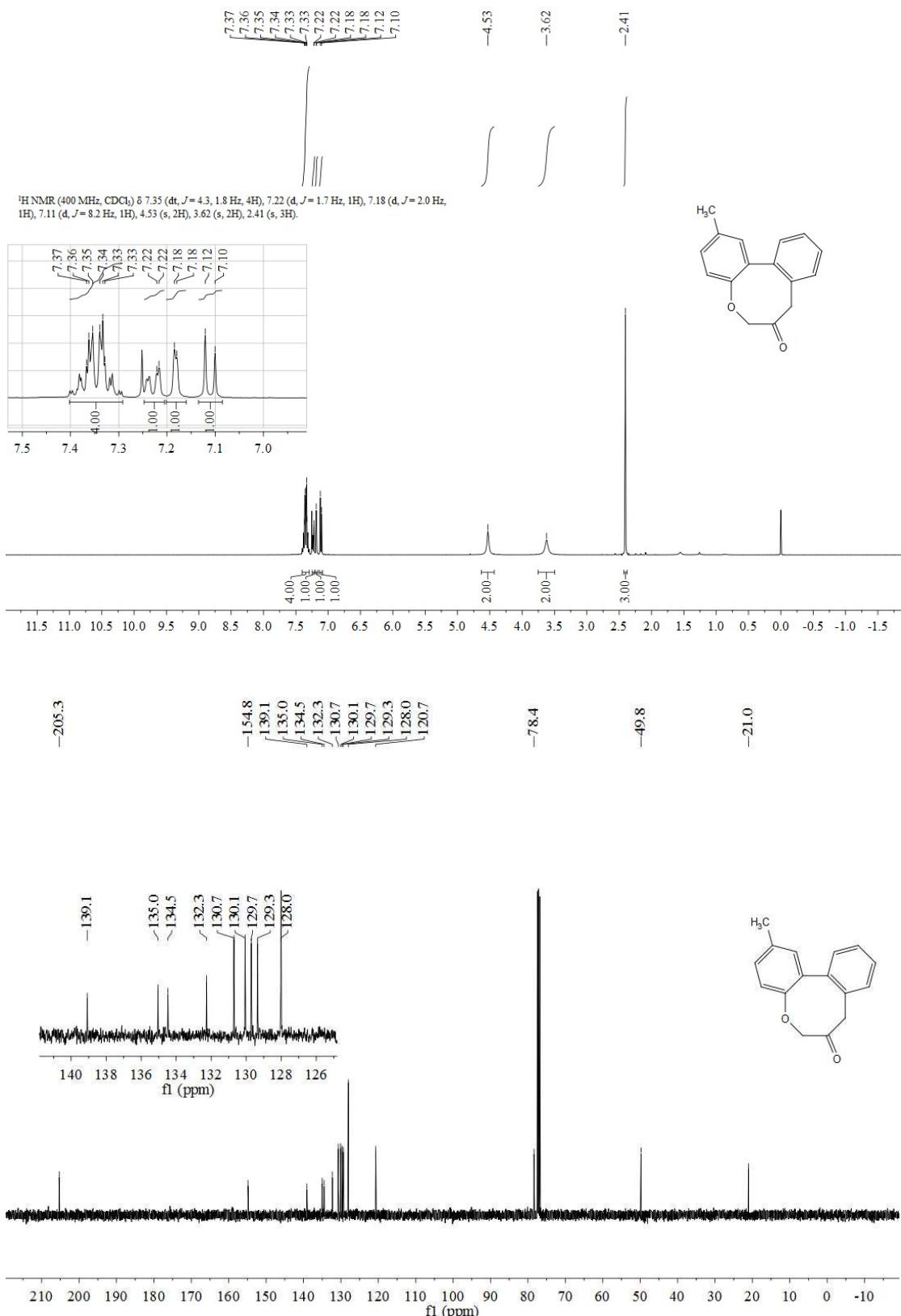


Fig. S92 NMR spectra of **7k**

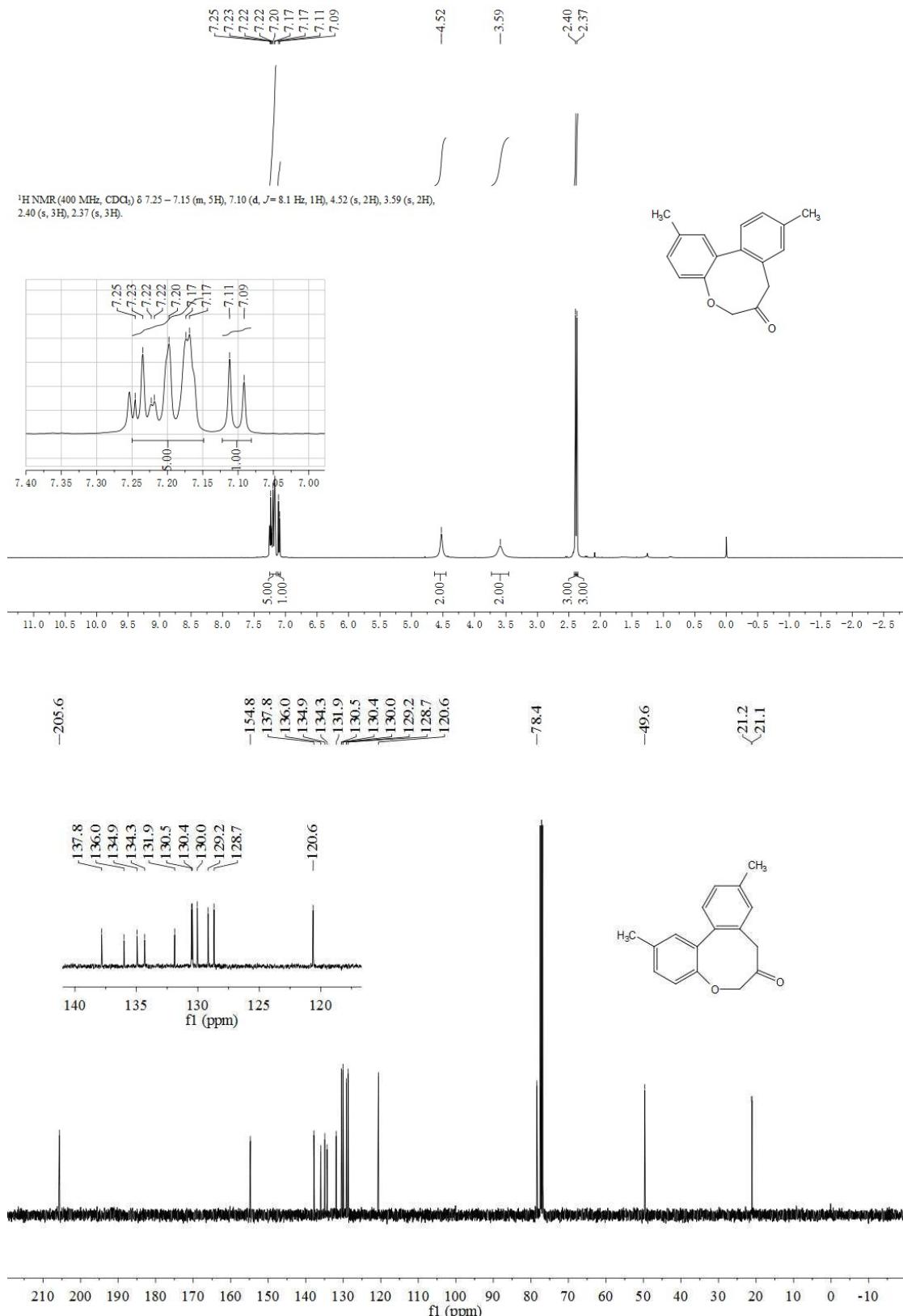


Fig. S93 NMR spectra of 7I

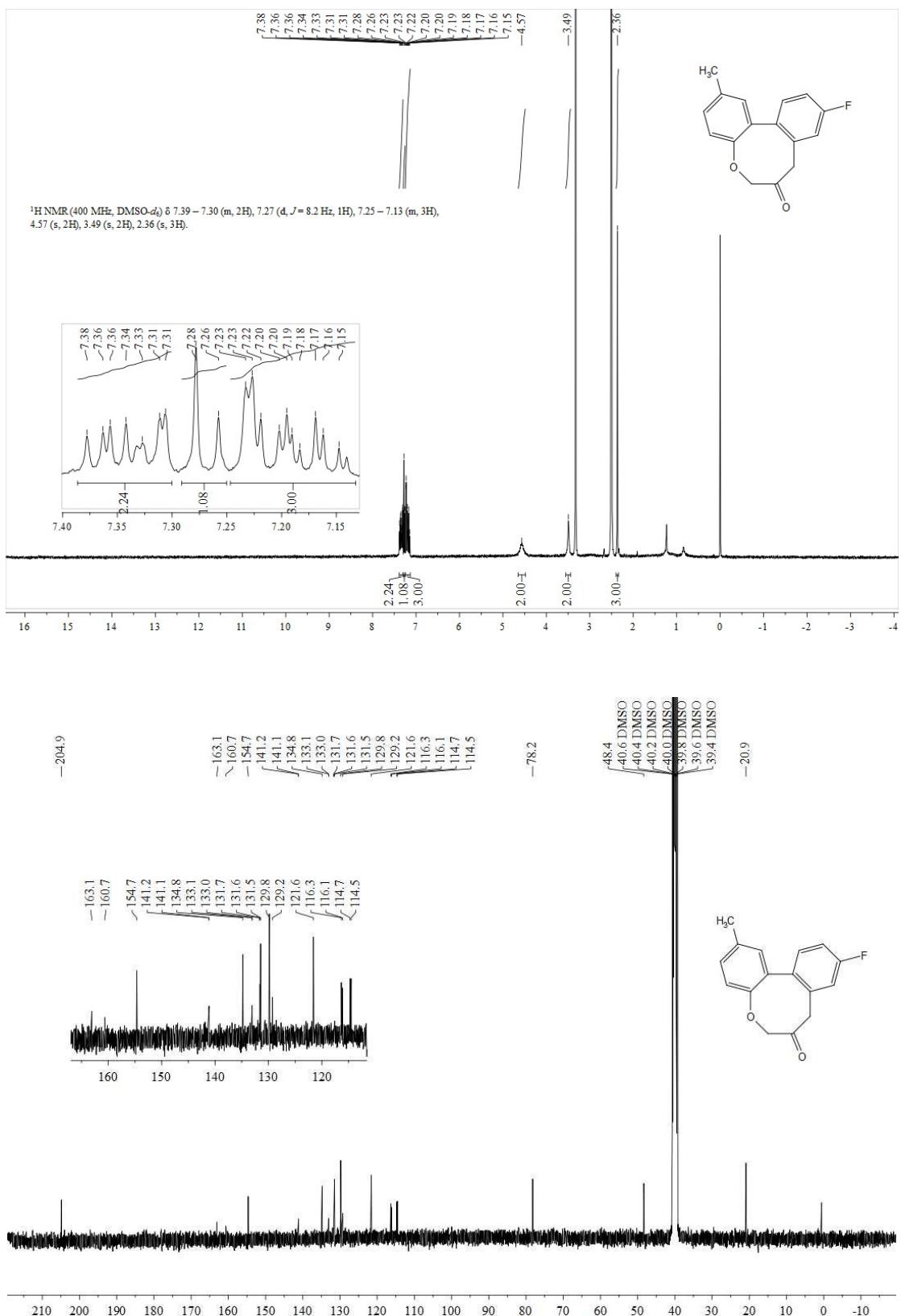


Fig. S94 NMR spectra of **7m**

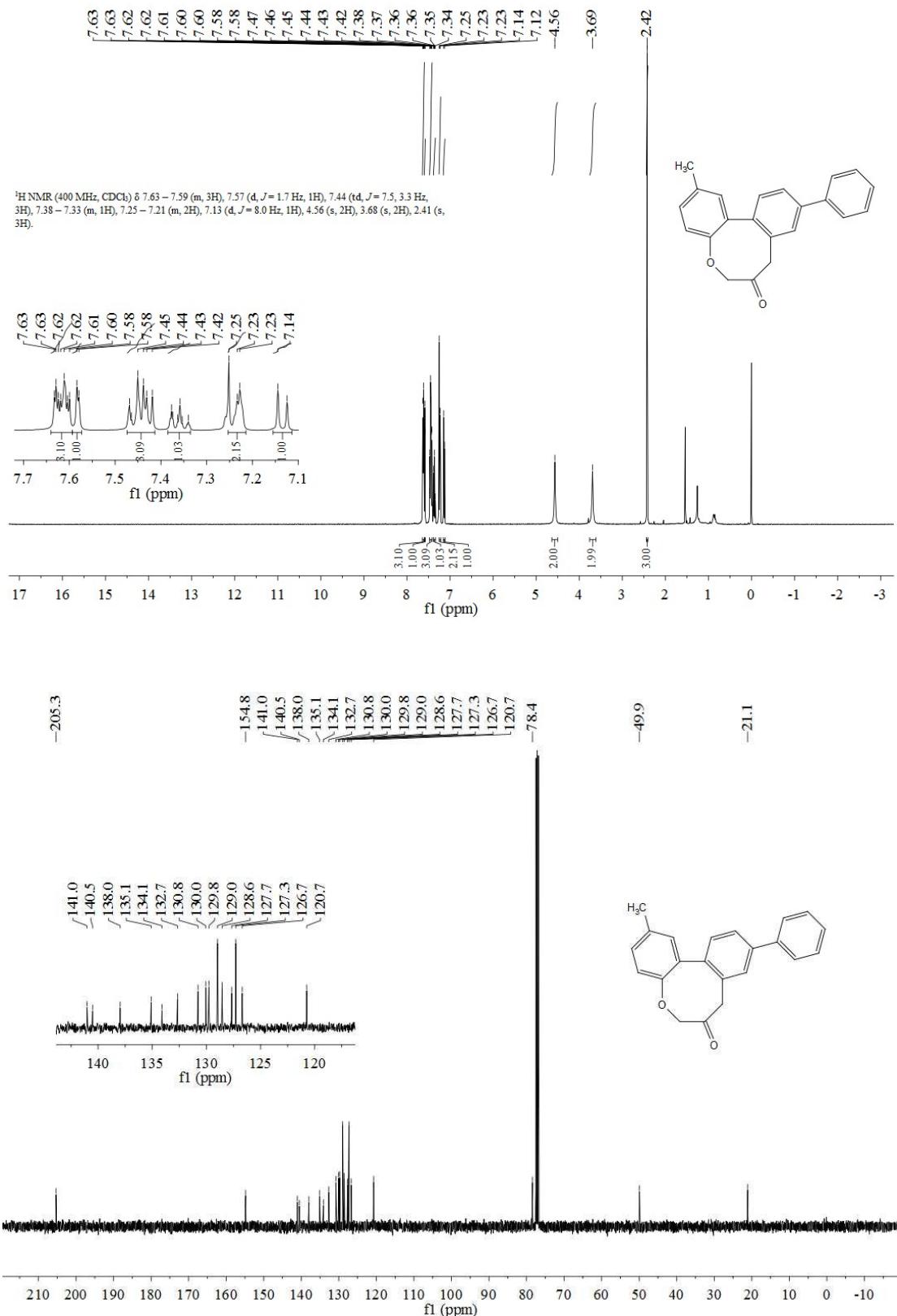


Fig. S95 NMR spectra of **7n**

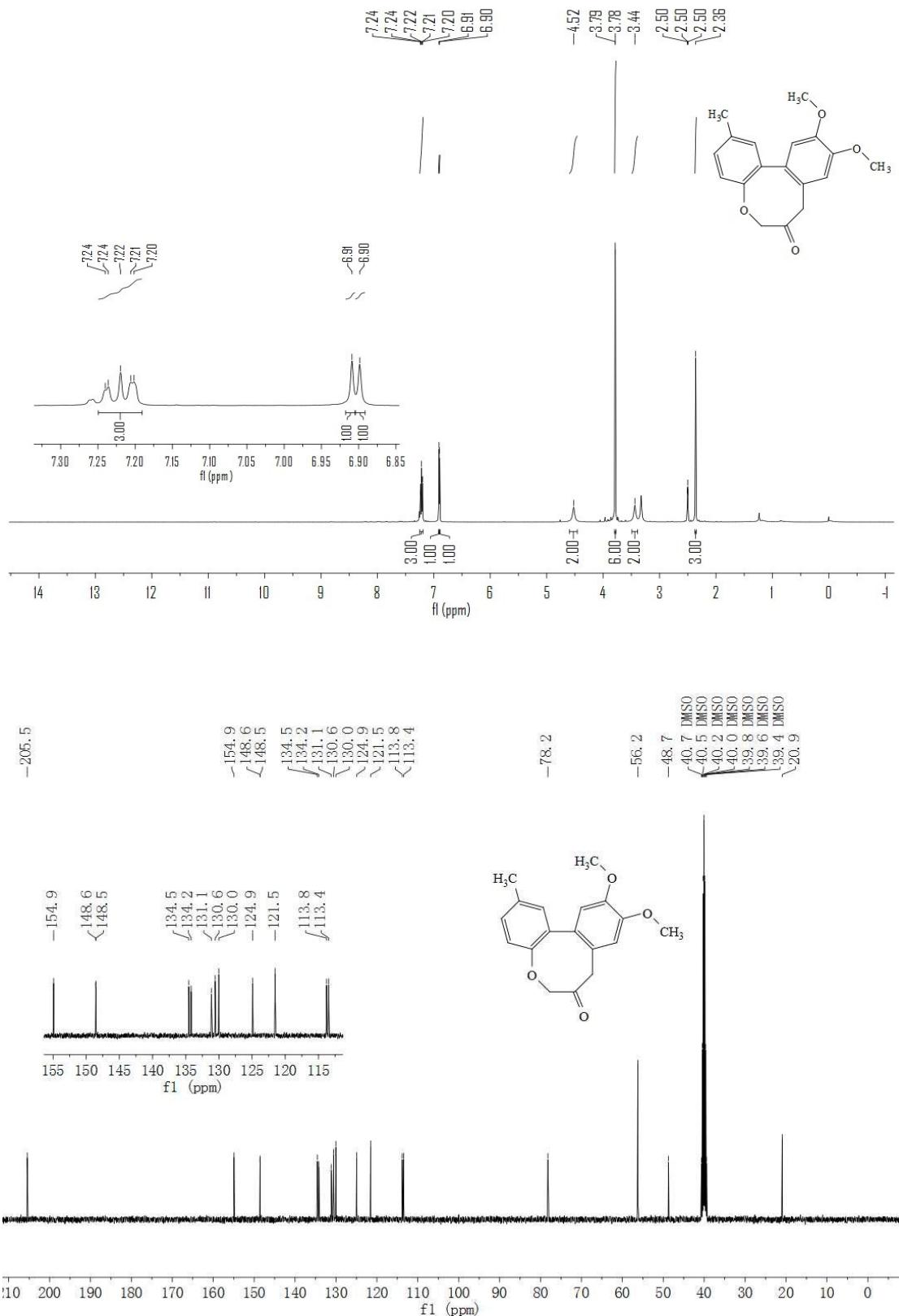


Fig. S96 NMR spectra of **7o**

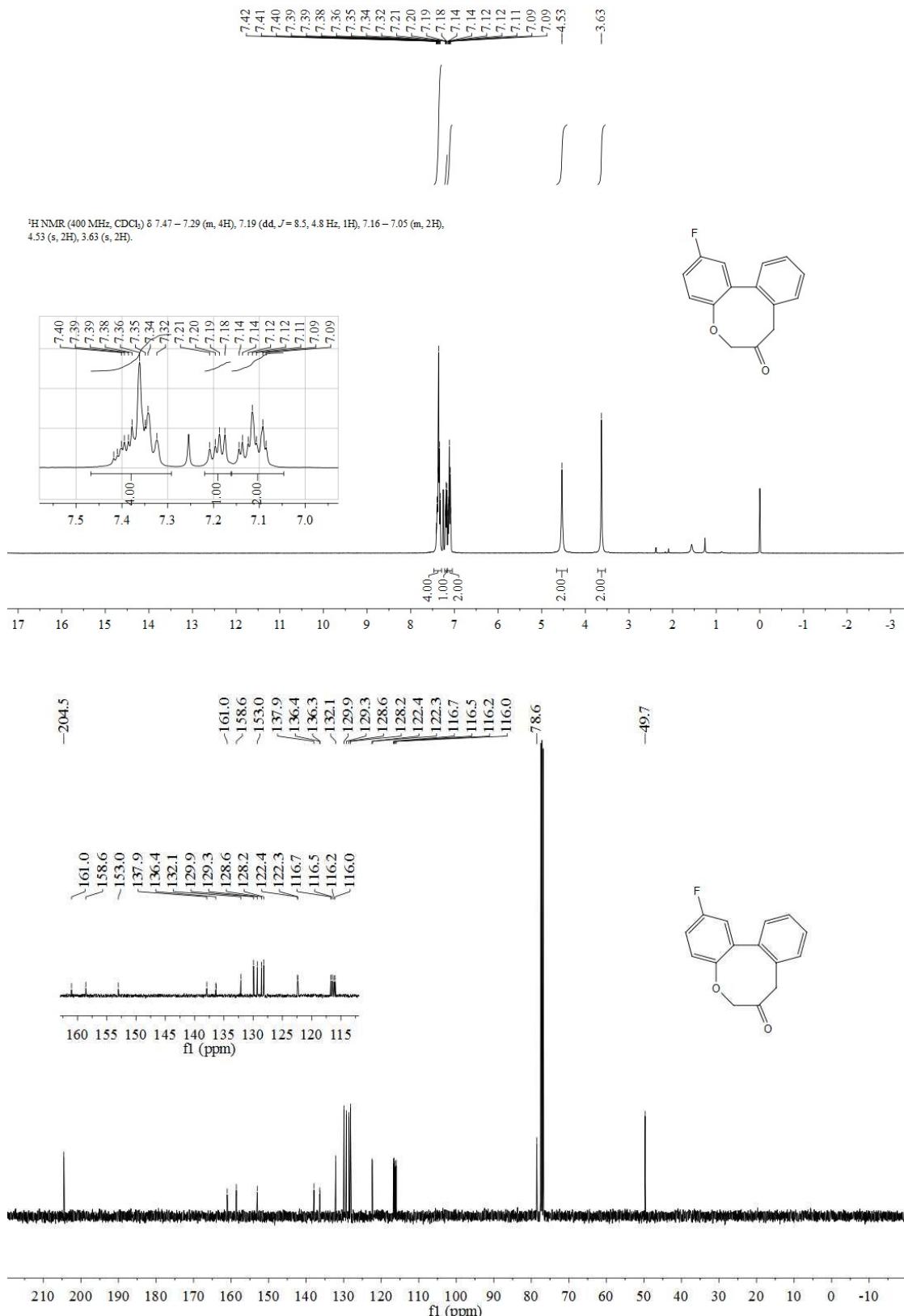


Fig. S97 NMR spectra of **7p**

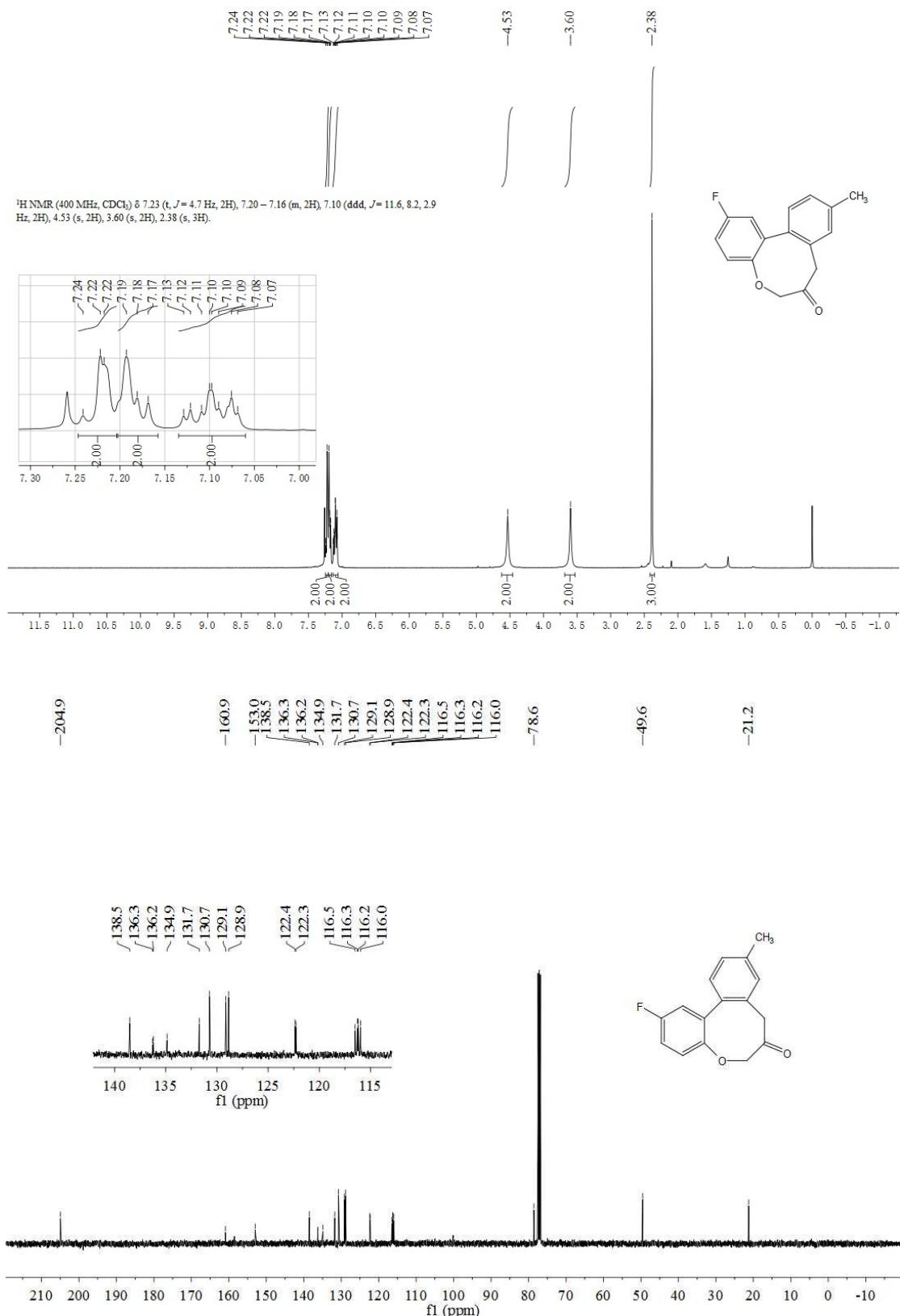


Fig. S98 NMR spectra of 7q

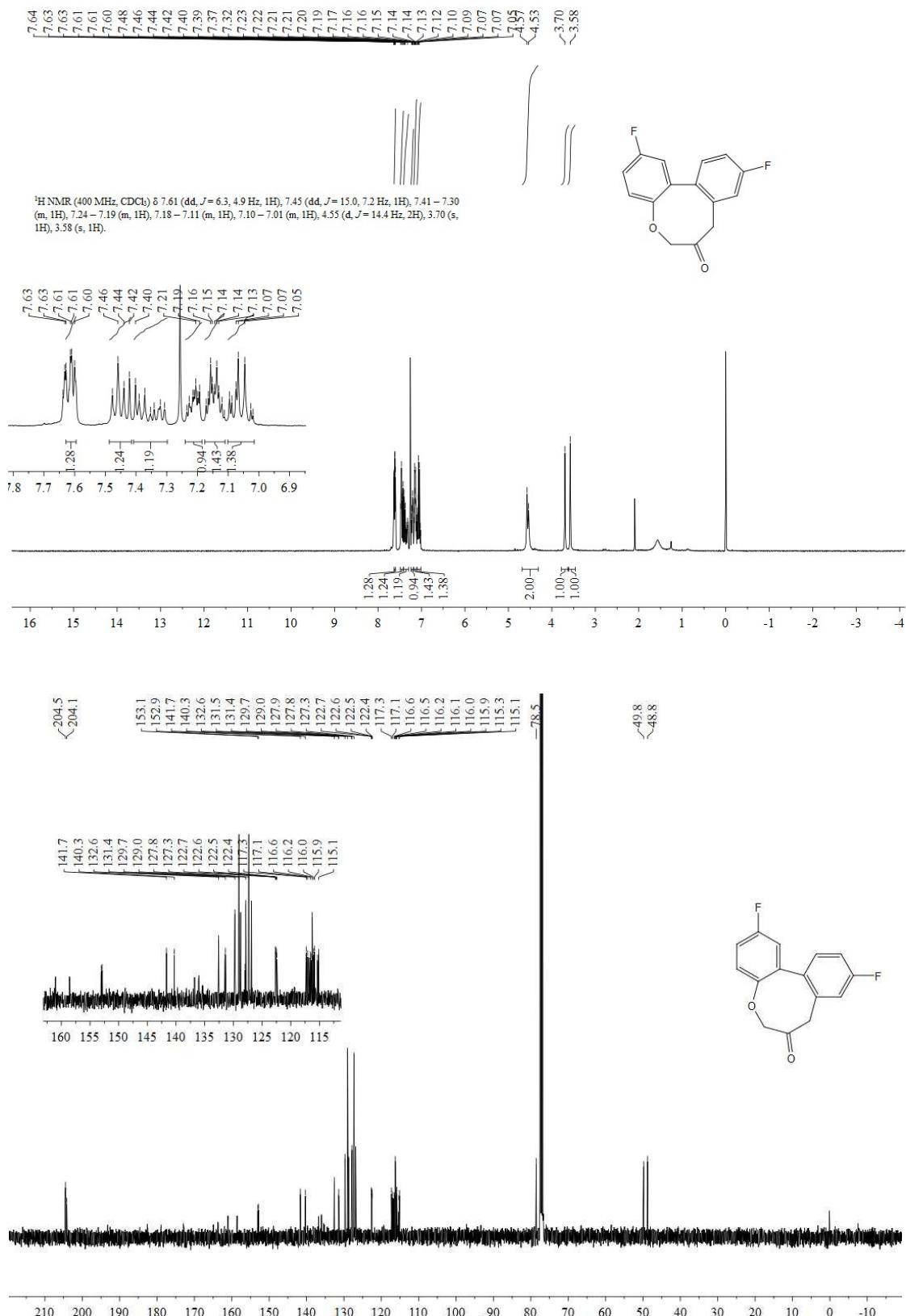


Fig. S99 NMR spectra of **7r**

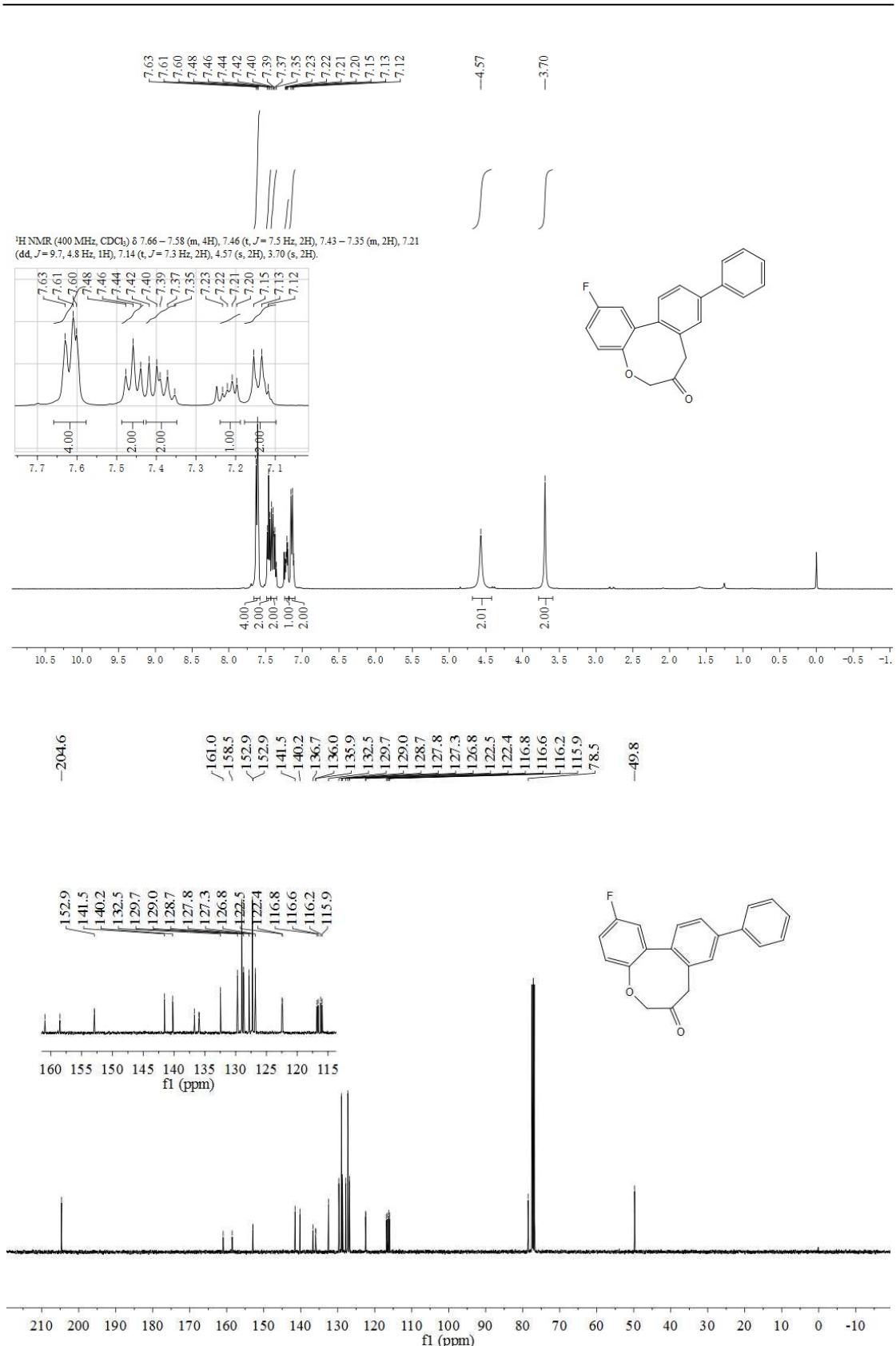


Fig. S100 NMR spectra of **7s**

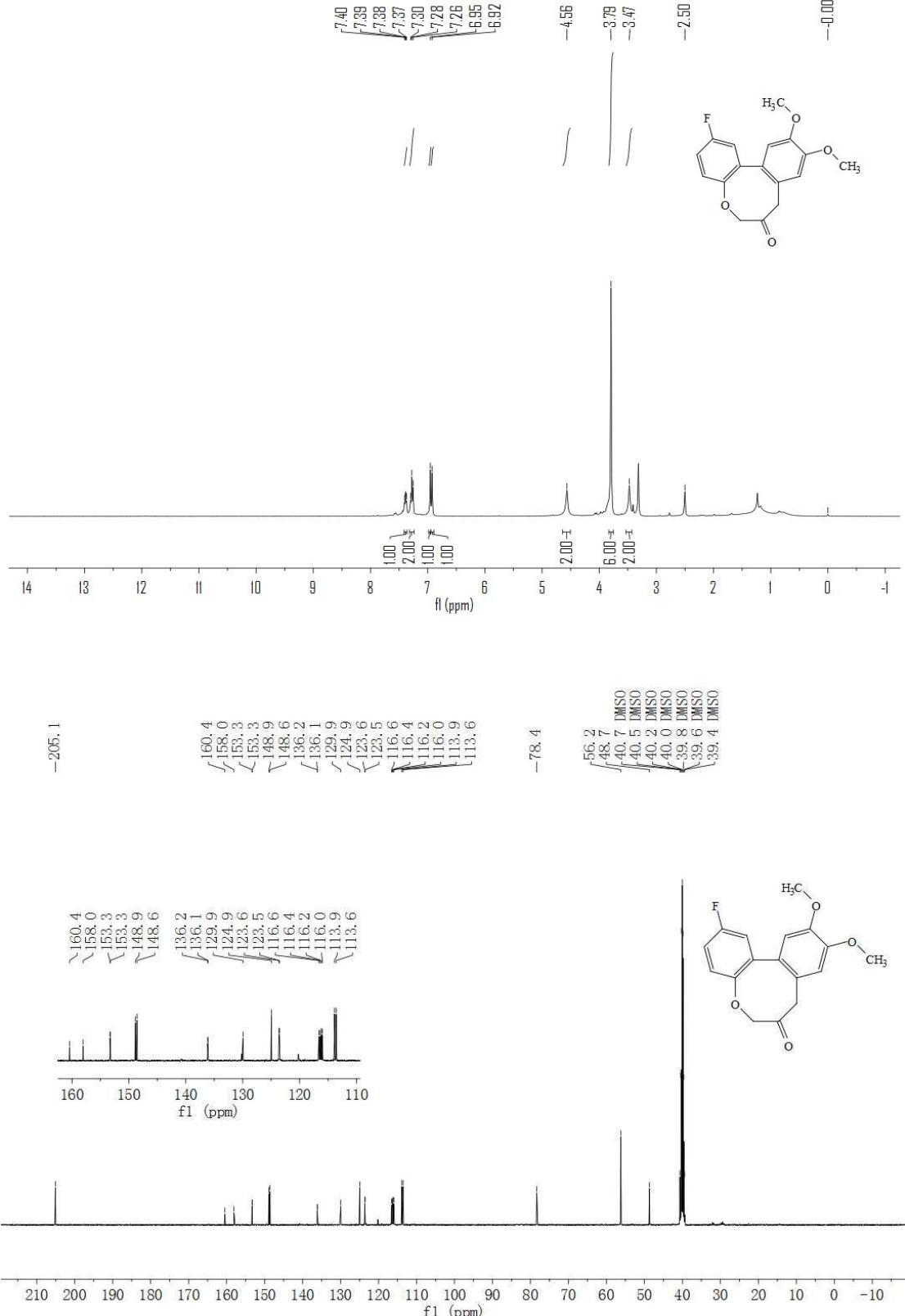


Fig. S101 NMR spectra of **7t**

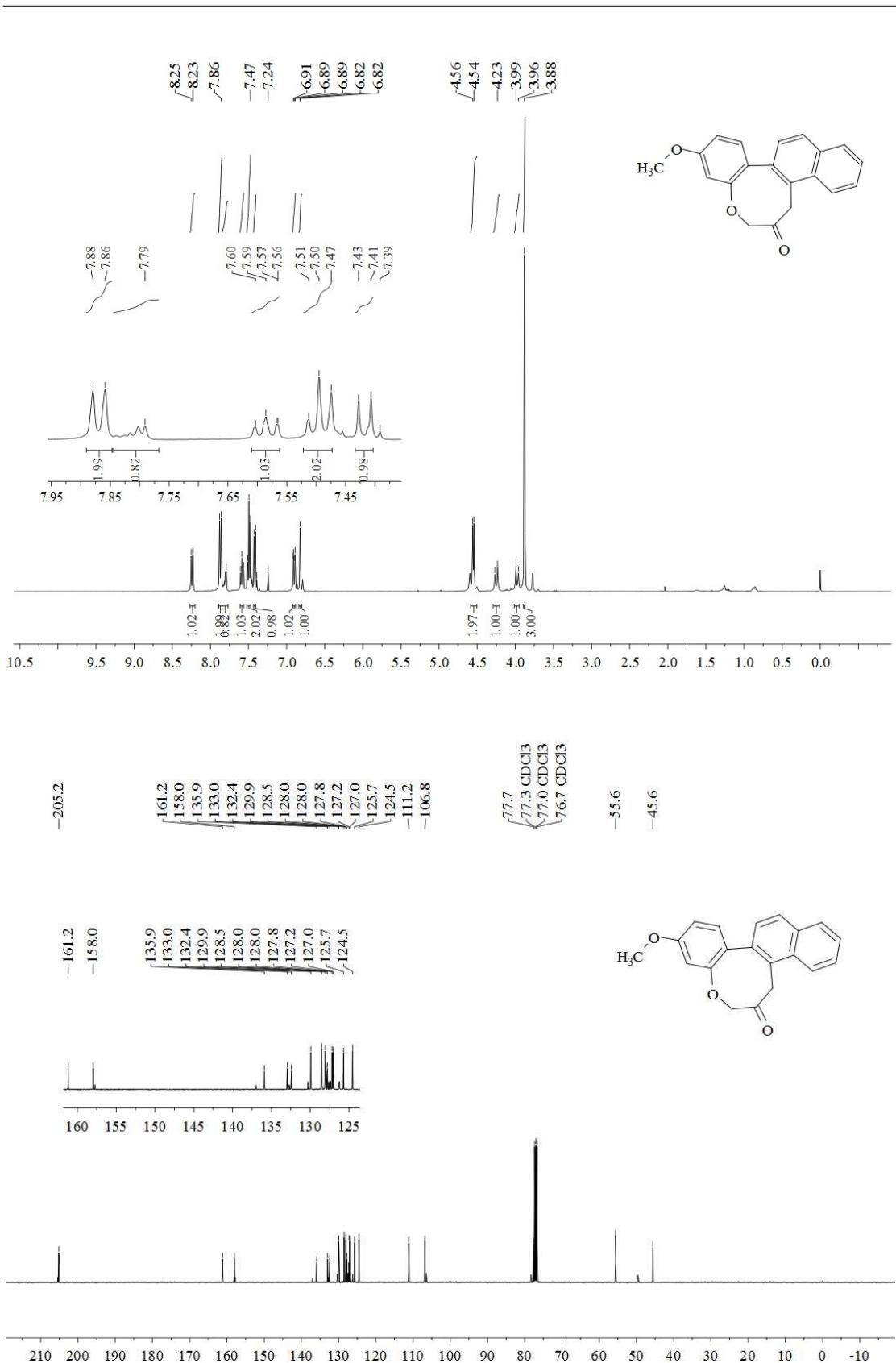


Fig. S102 NMR spectra of **7u**

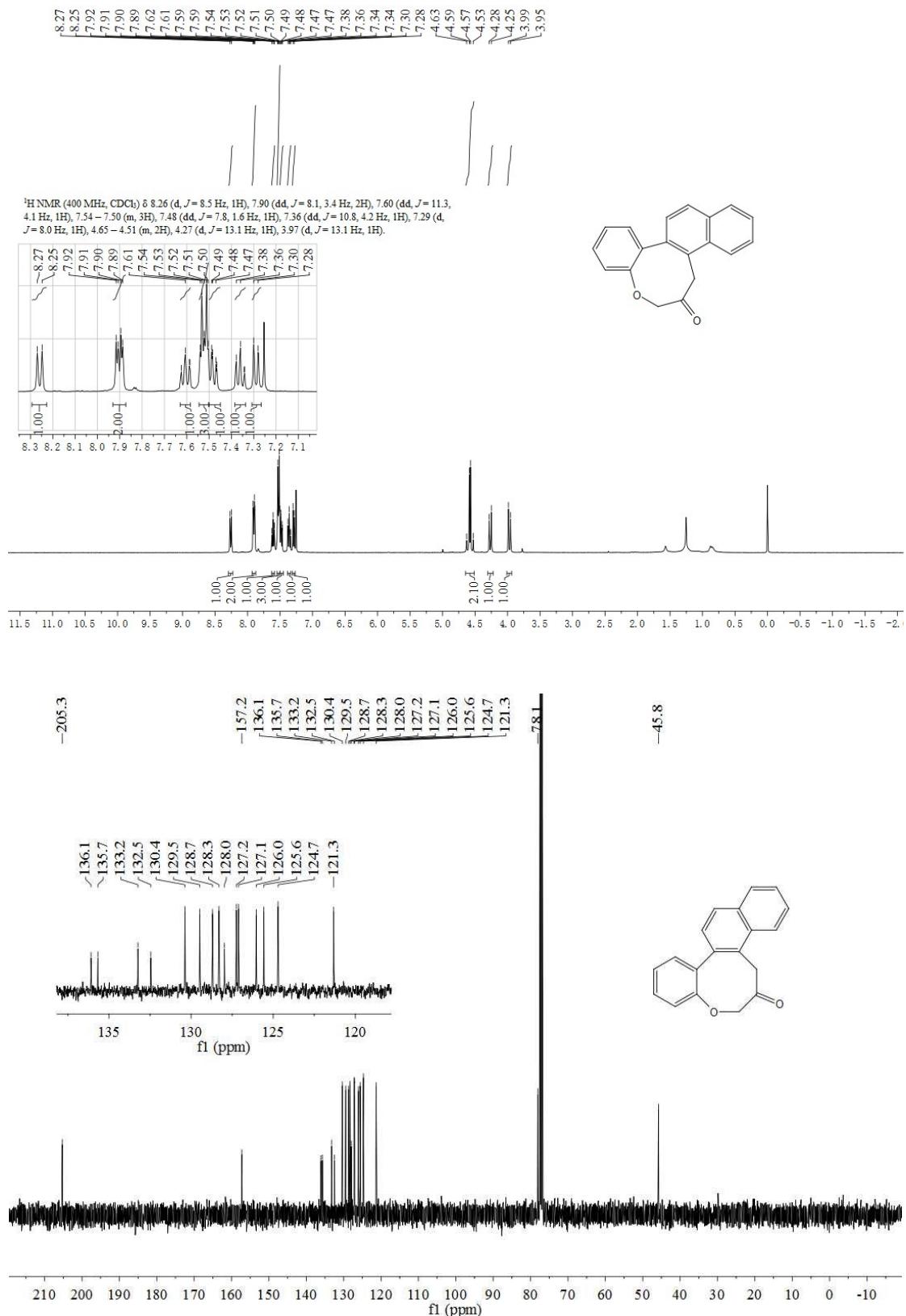


Fig. S103 NMR spectra of **7v**

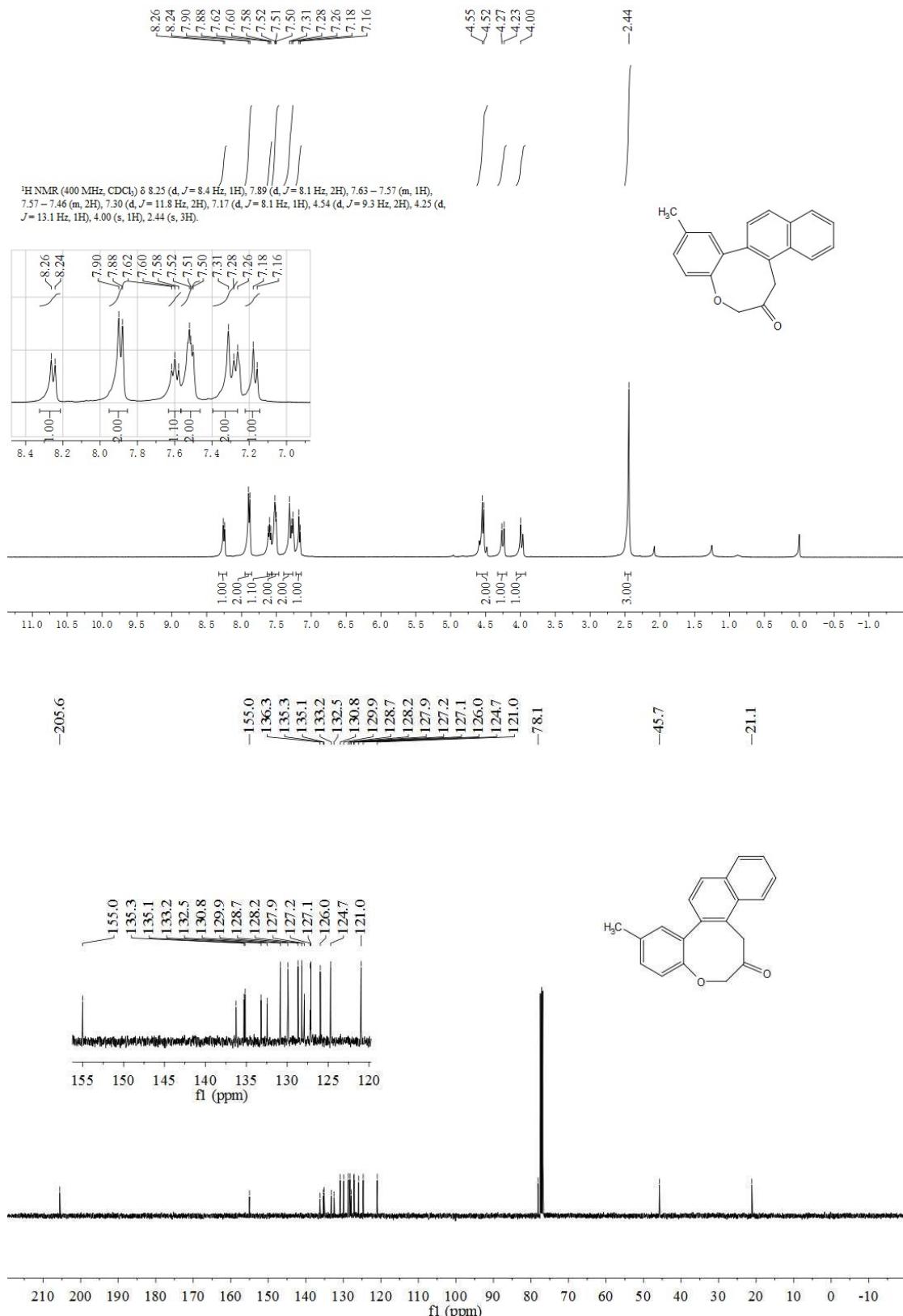


Fig. S104 NMR spectra of **7w**

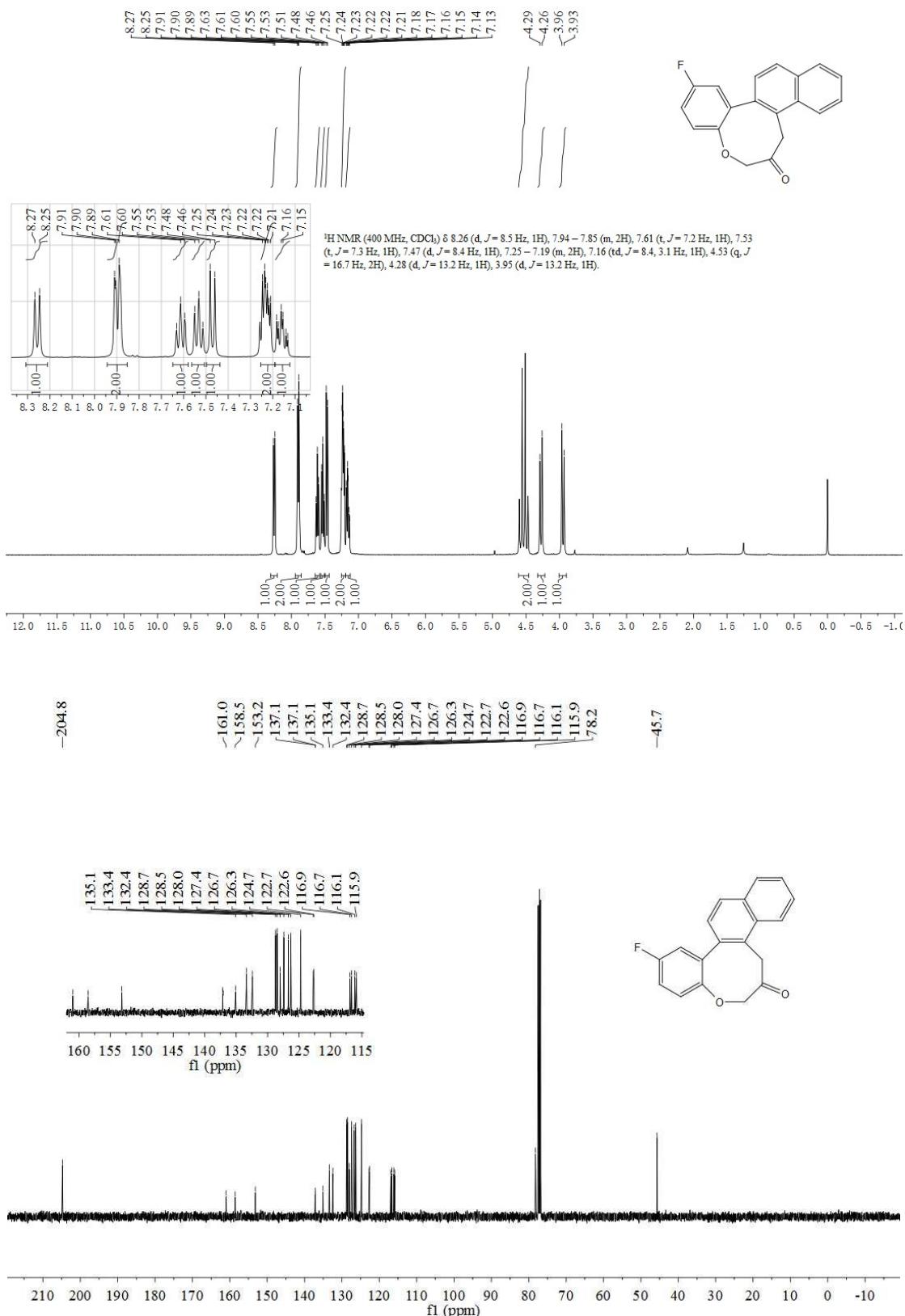


Fig. S105 NMR spectra of **7x**

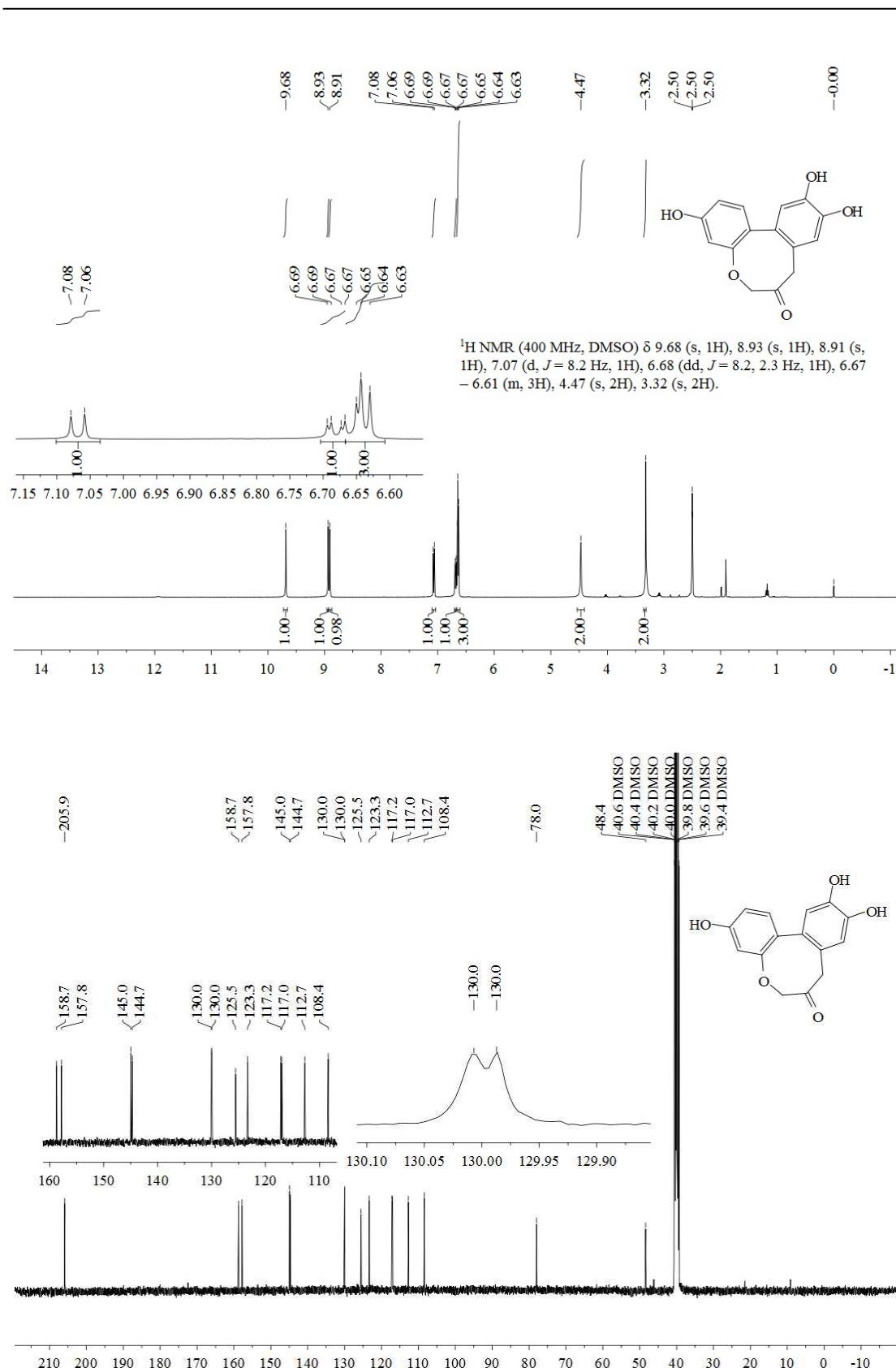


Fig. S106 NMR spectra of **Protosappanin A**