

## **Supplemental Material**

**Synthesis, *in vitro*  $\alpha$ -glucosidase inhibitory activity and molecular docking studies of novel benzothiazole-triazole derivatives**

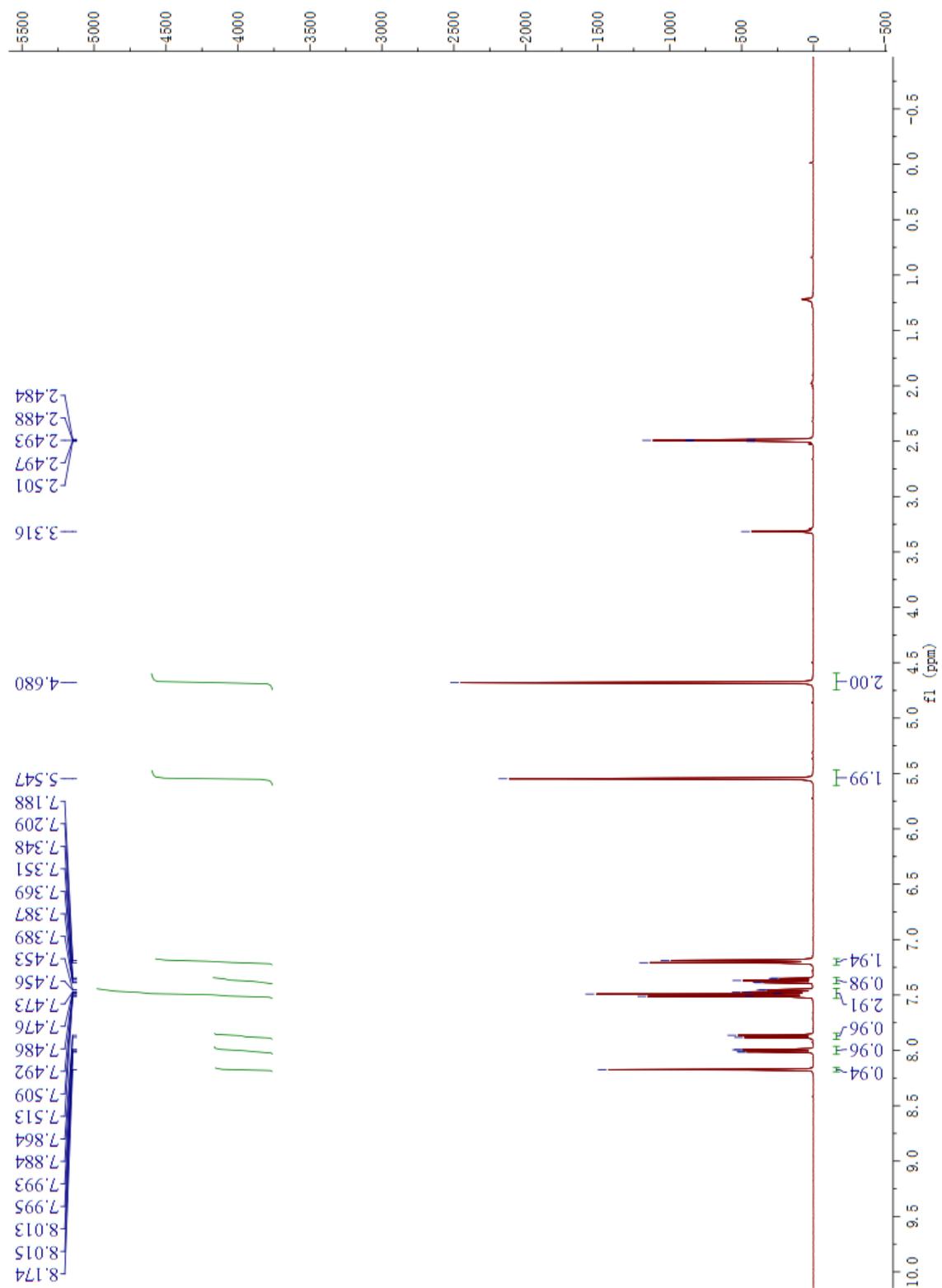


Figure S 1:  $^1\text{H}$  NMR of compound 6a

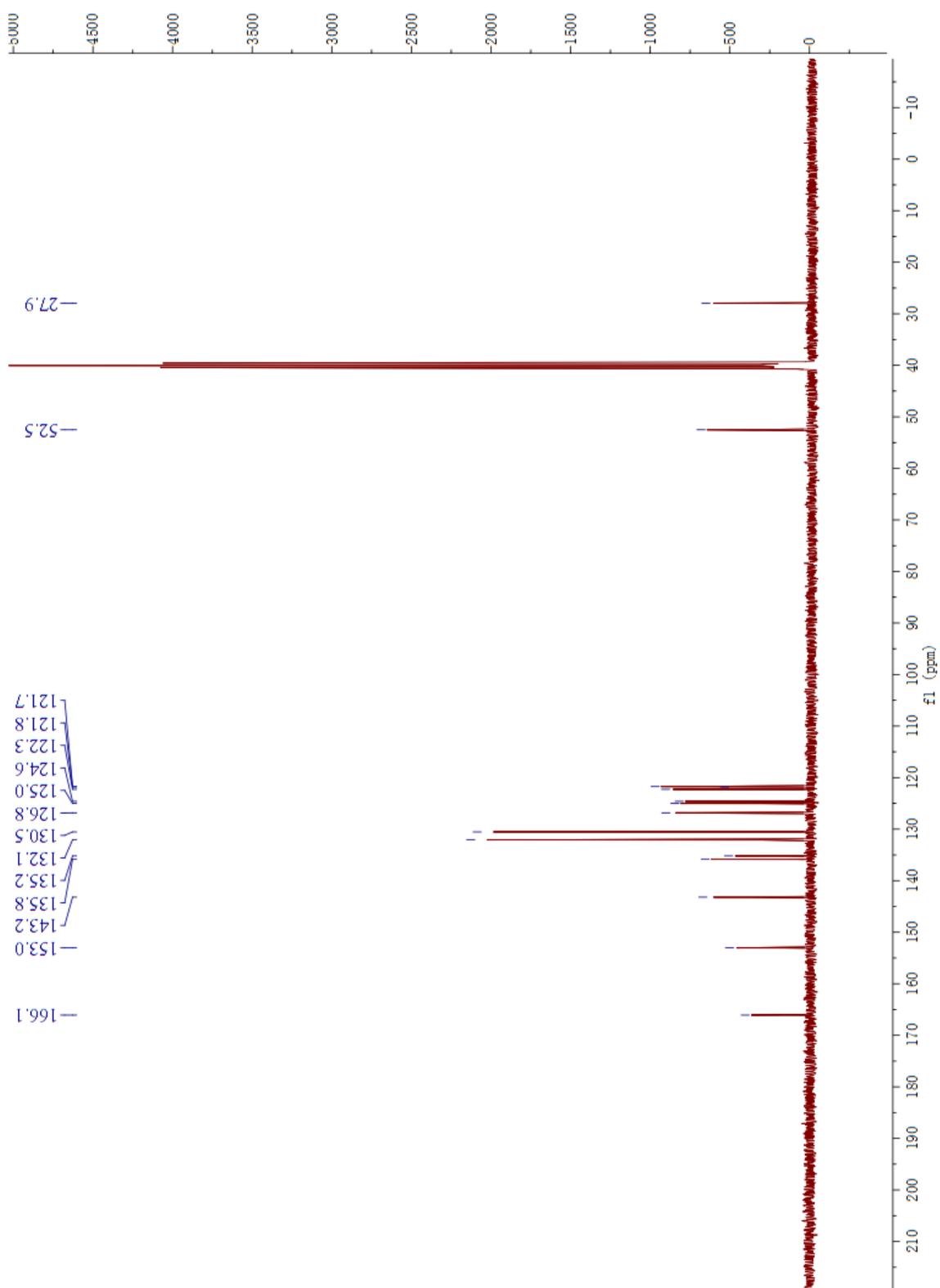
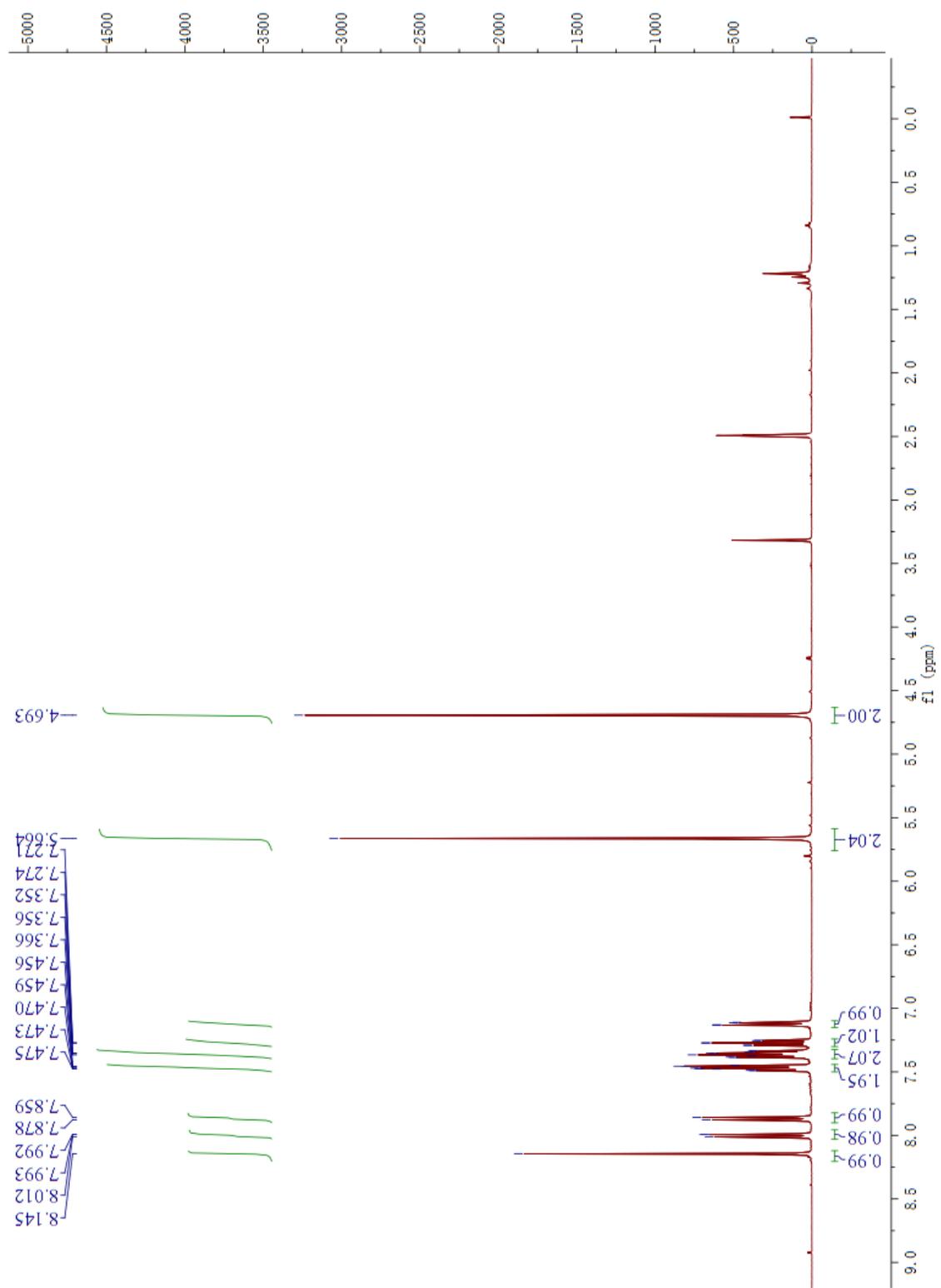


Figure S 2:  $^{13}\text{C}$  NMR of compound 6a



**Figure S 3: <sup>1</sup>H NMR of compound 6b**

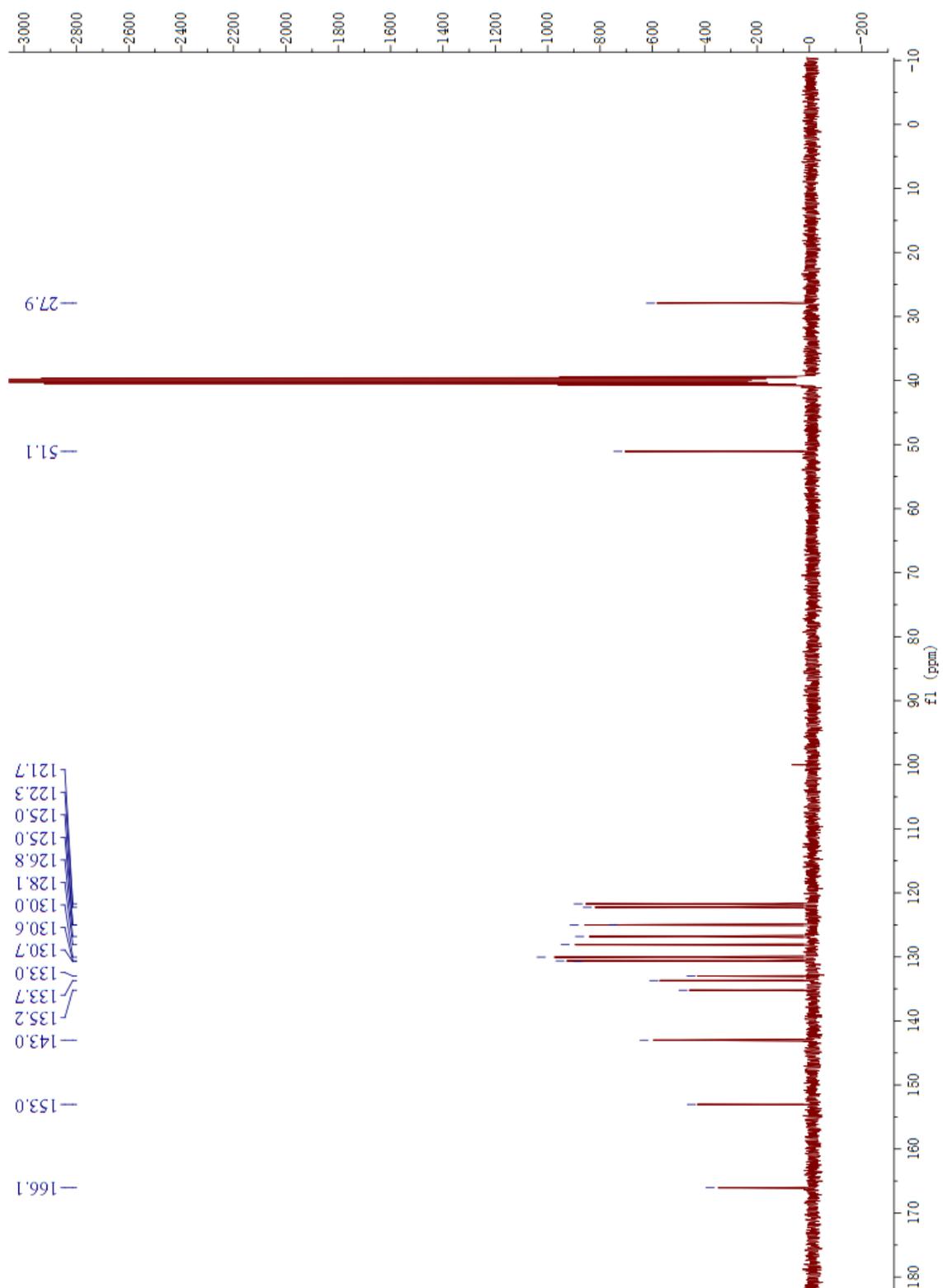


Figure S 4:  $^{13}\text{C}$  NMR of compound 6b

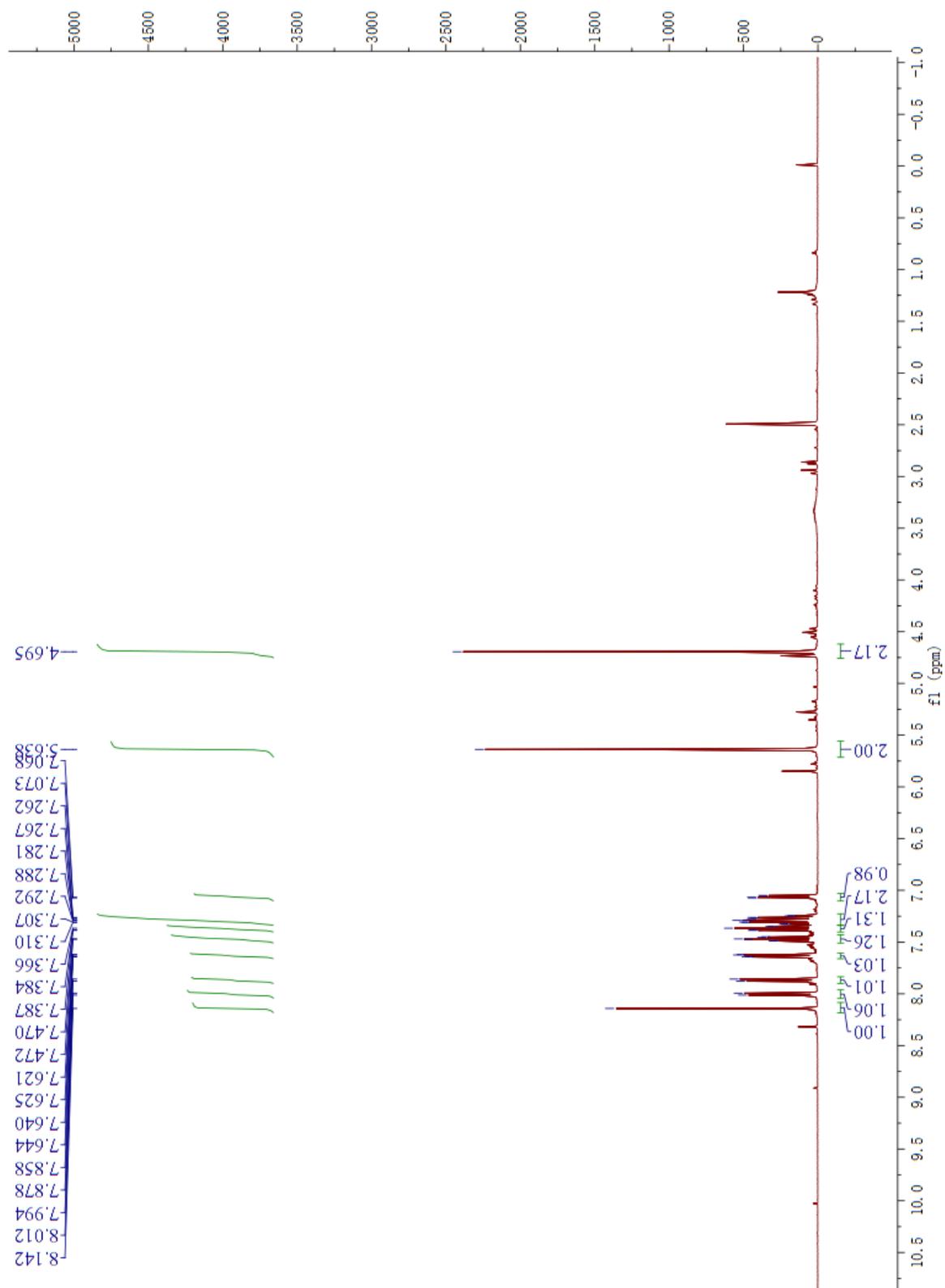


Figure S 5:  $^1\text{H}$  NMR of compound 6c

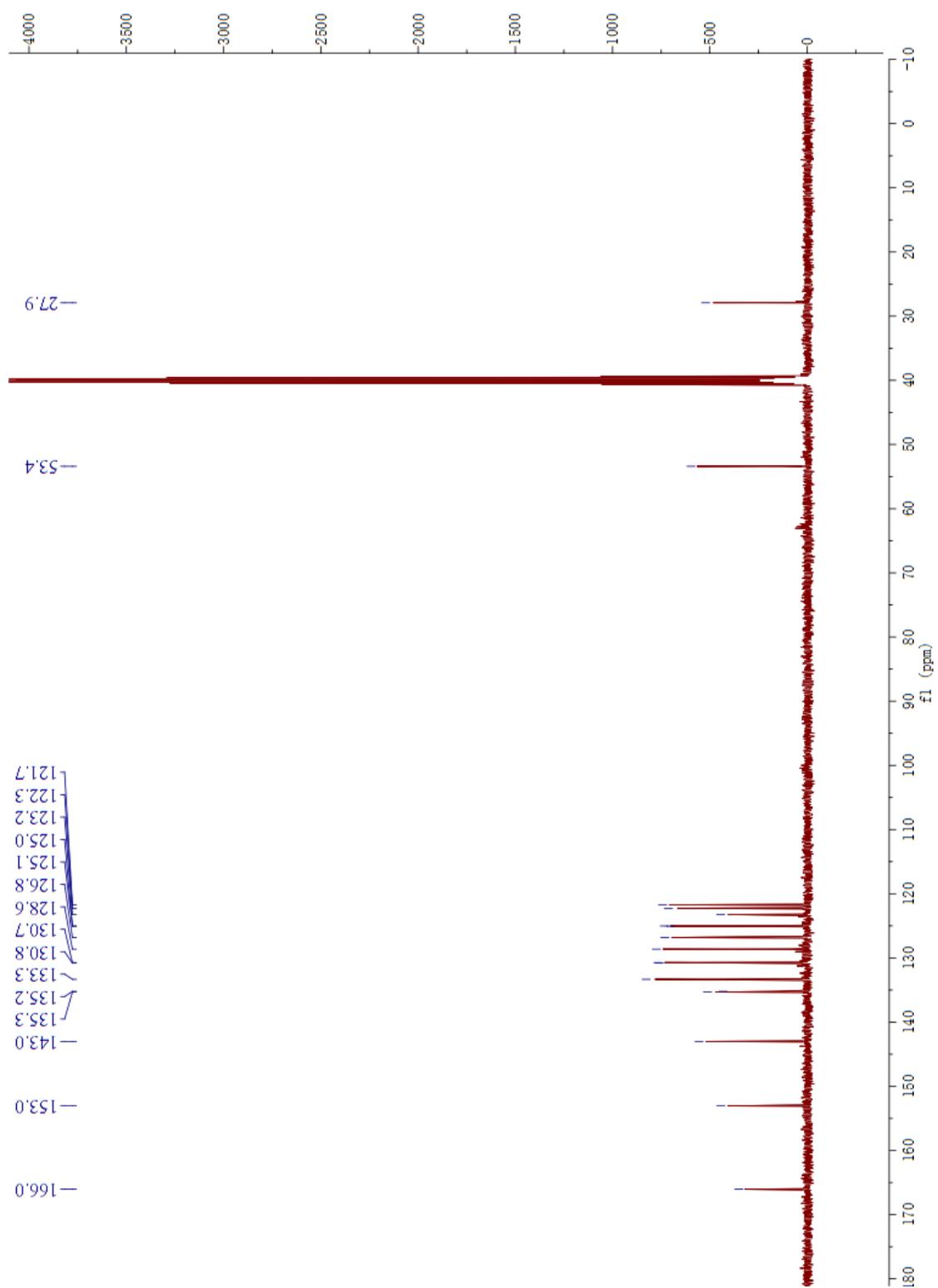
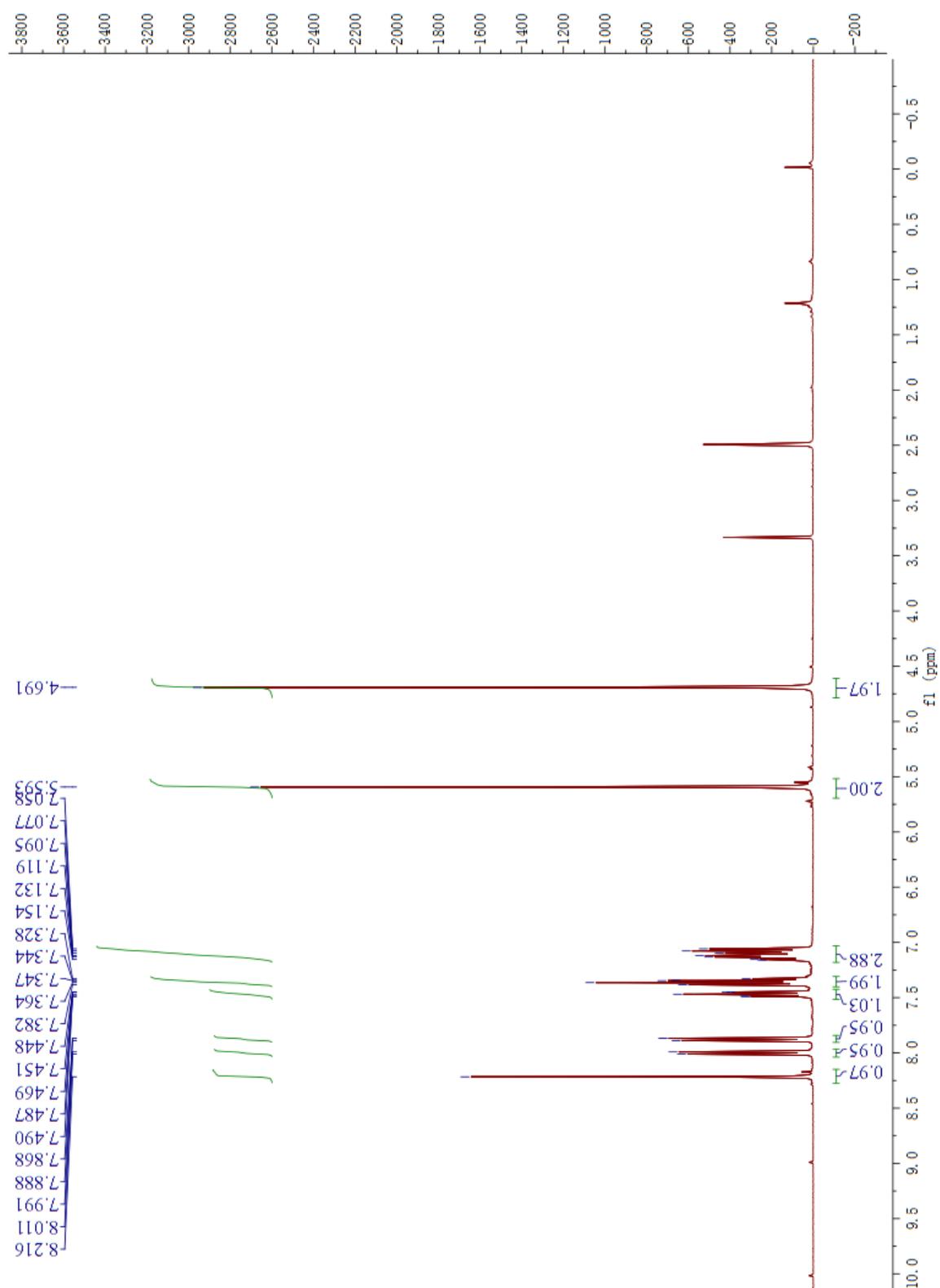


Figure S 6:  $^{13}\text{C}$  NMR of compound 6c



**Figure S 7:  $^1\text{H}$  NMR of compound 6d**

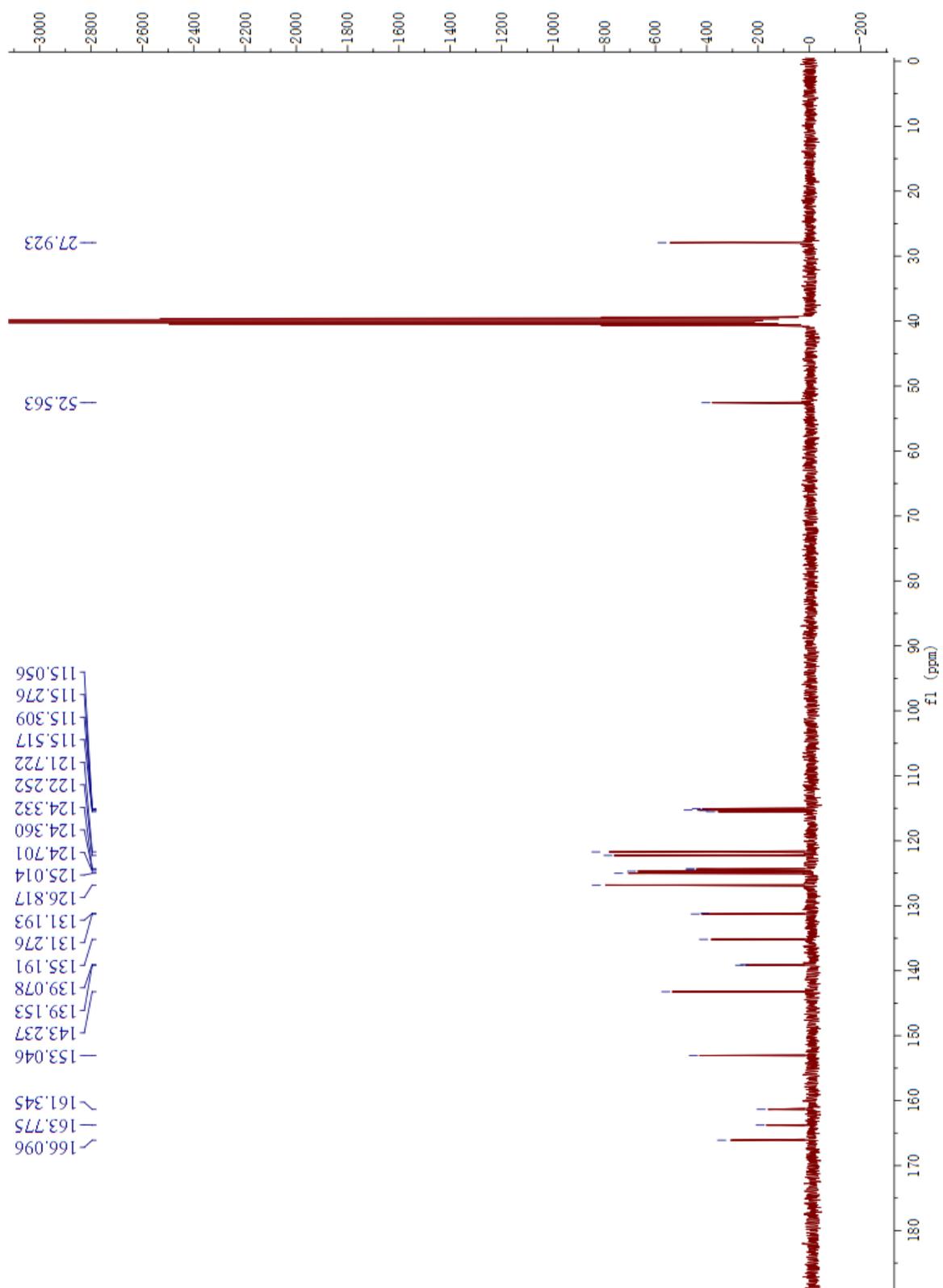
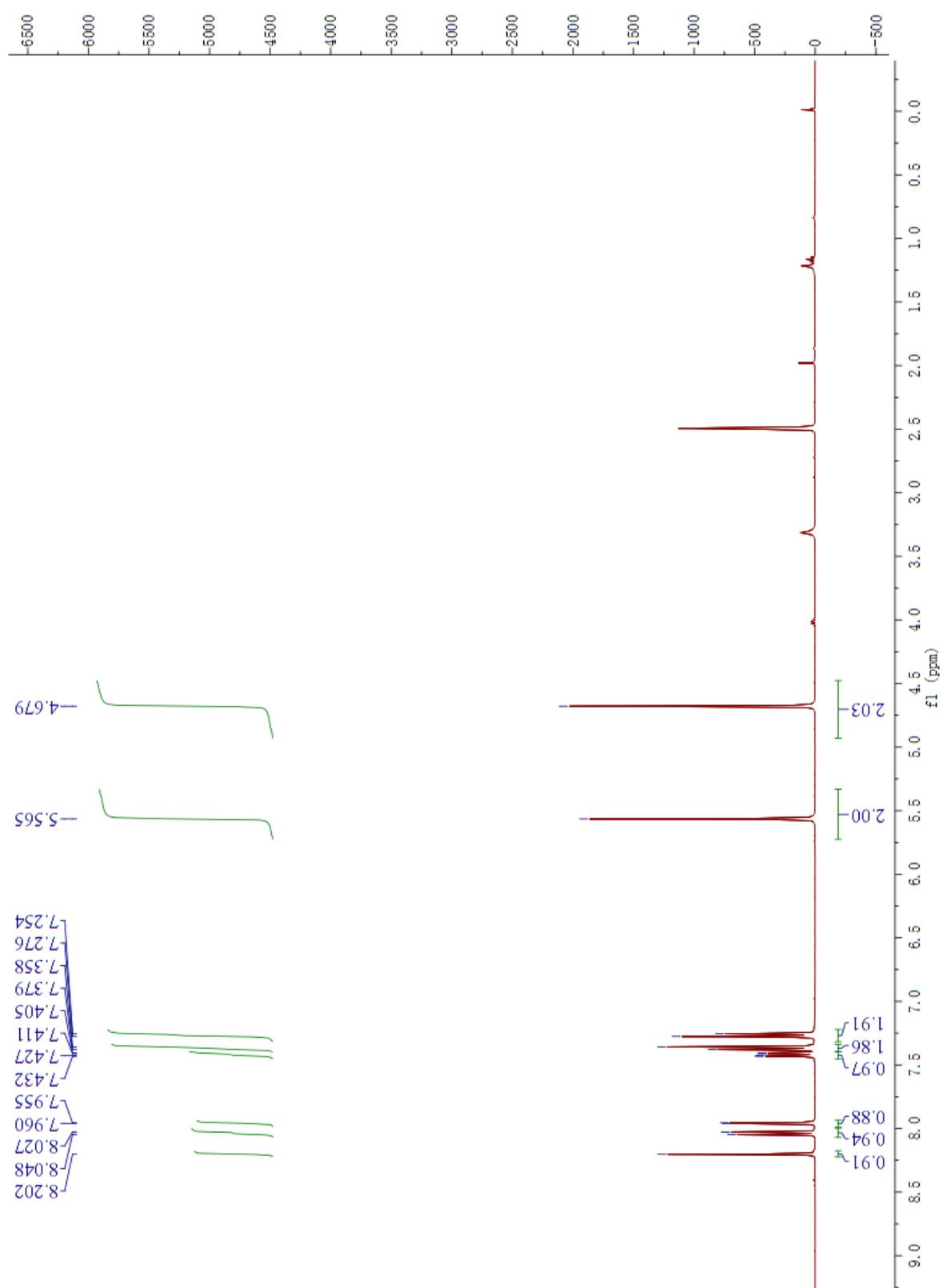


Figure S 8:  $^{13}\text{C}$  NMR of compound 6d



**Figure S 9:  $^1\text{H}$  NMR of compound 6c**

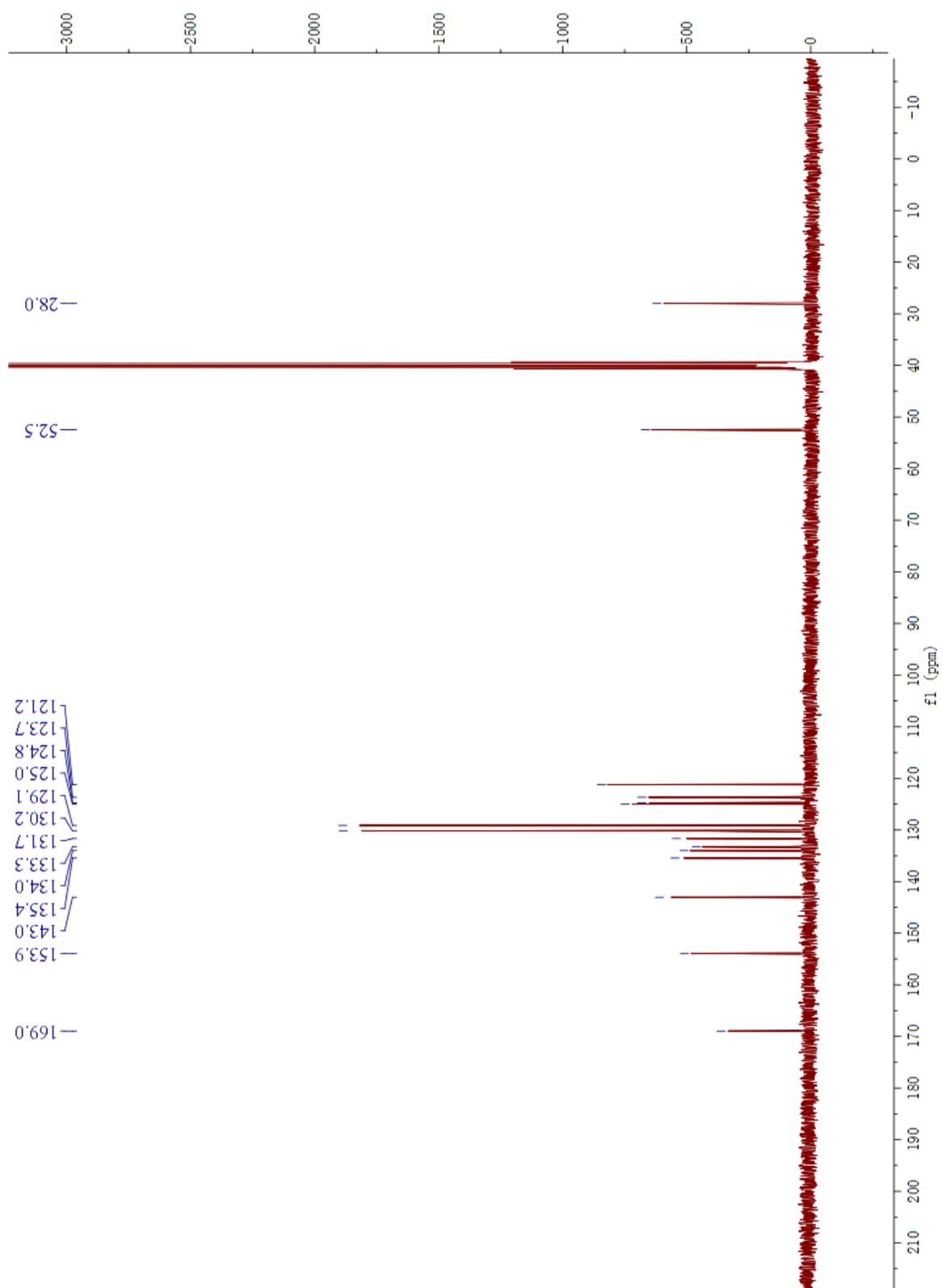
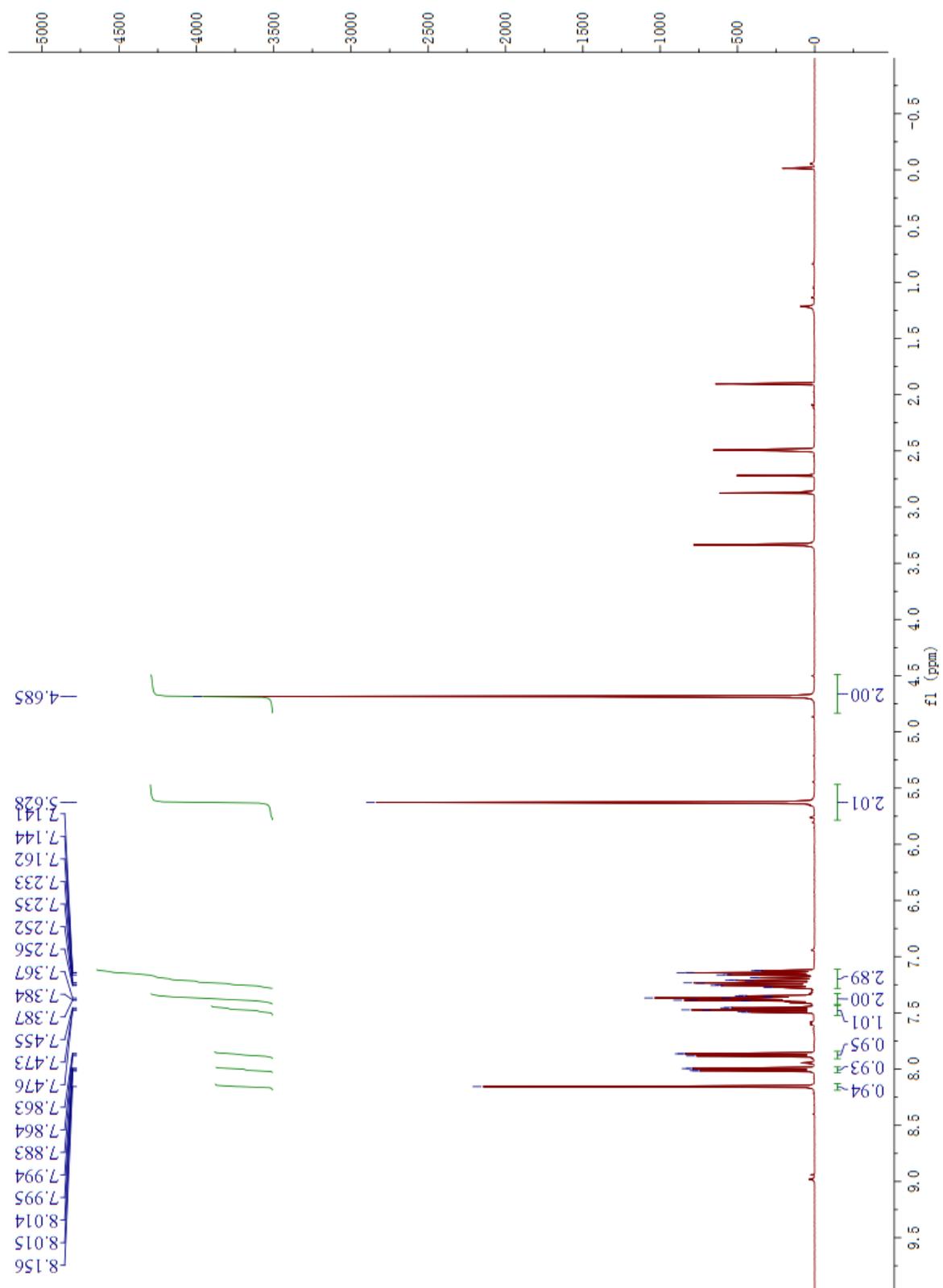


Figure S 10:  $^{13}\text{C}$  NMR of compound 6e



**Figure S 11:  $^1\text{H}$  NMR of compound 6f**

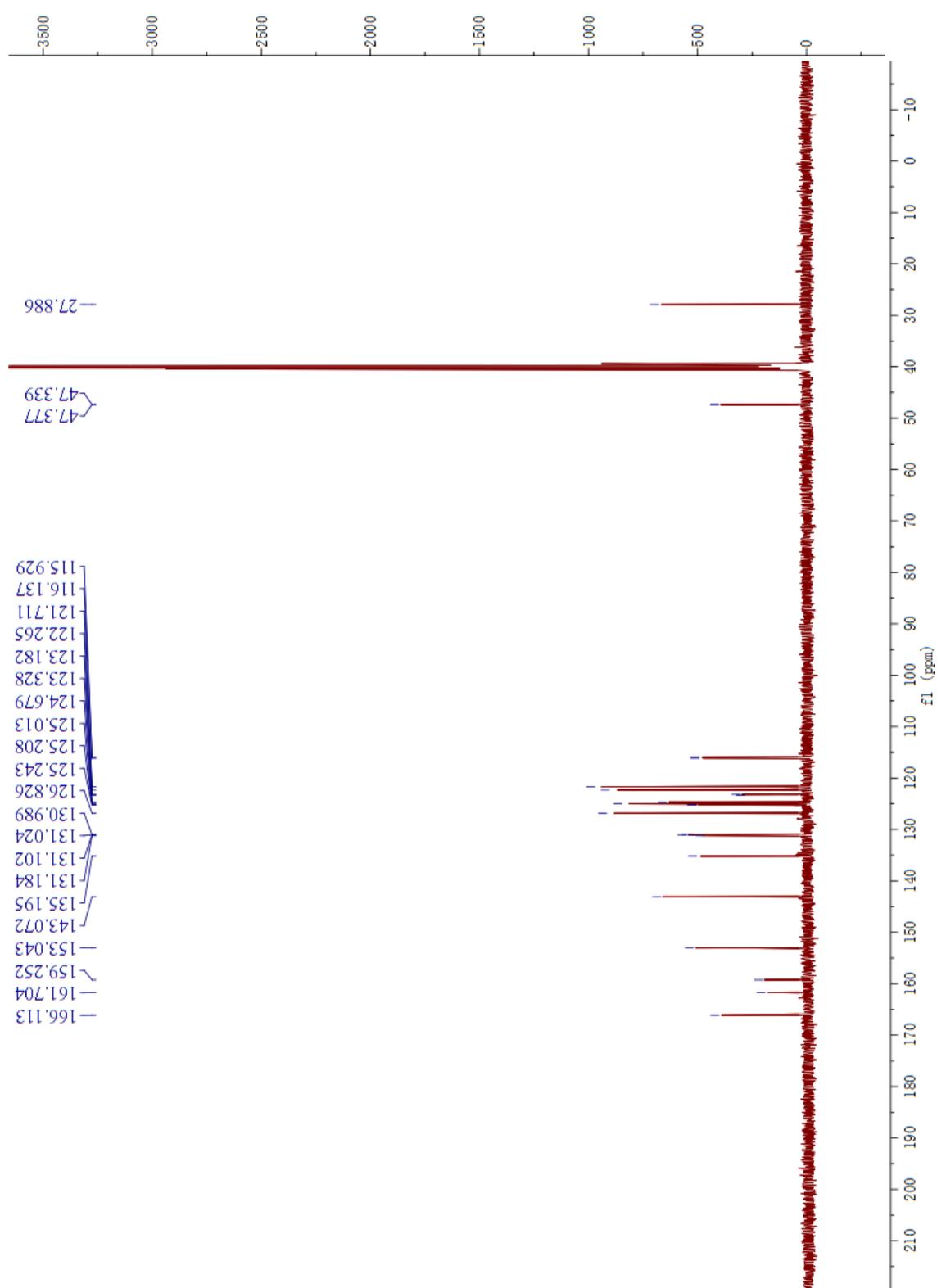


Figure S 12:  $^{13}\text{C}$  NMR of compound 6f

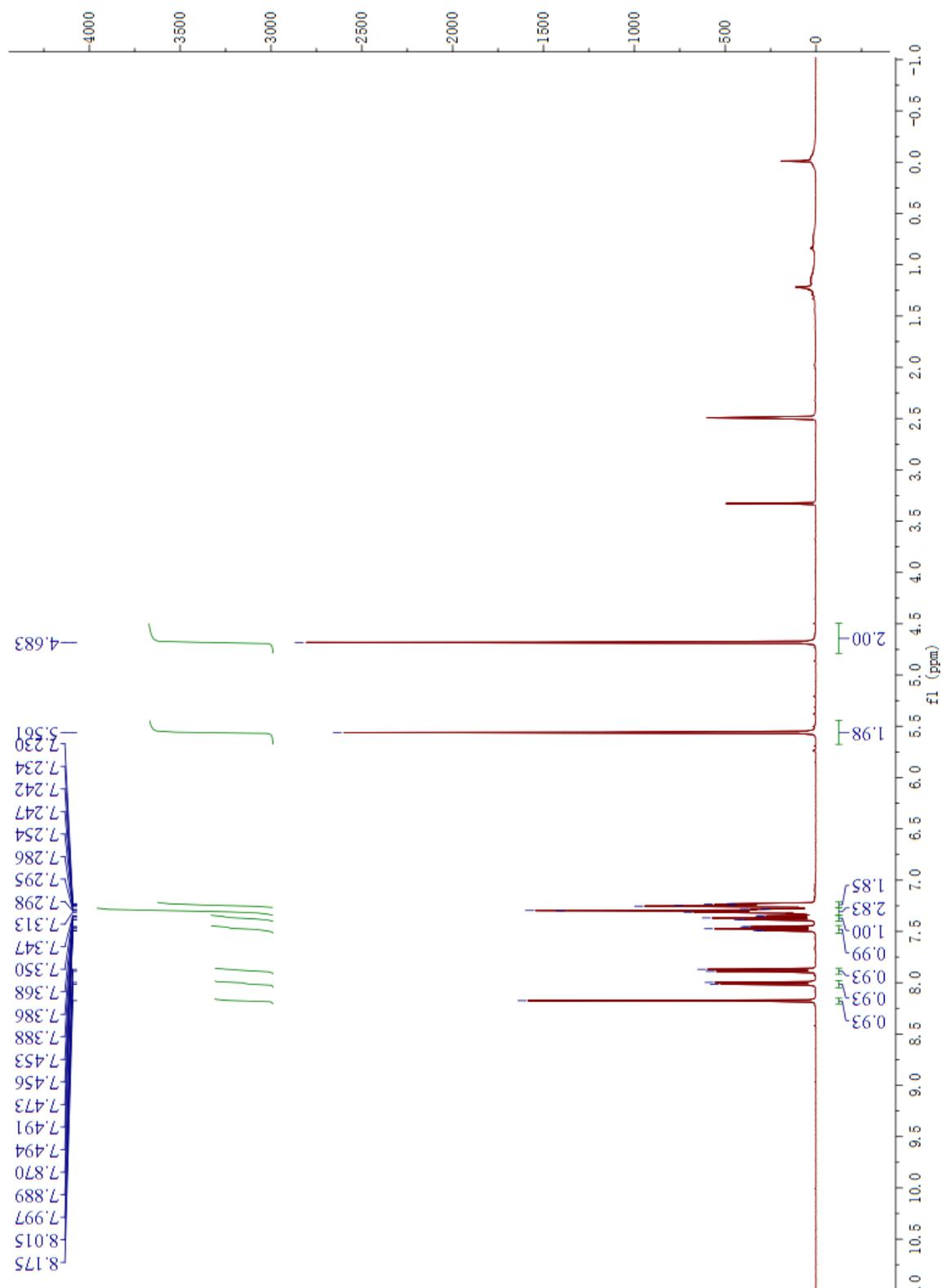


Figure S 13:  $^1\text{H}$  NMR of compound 6g

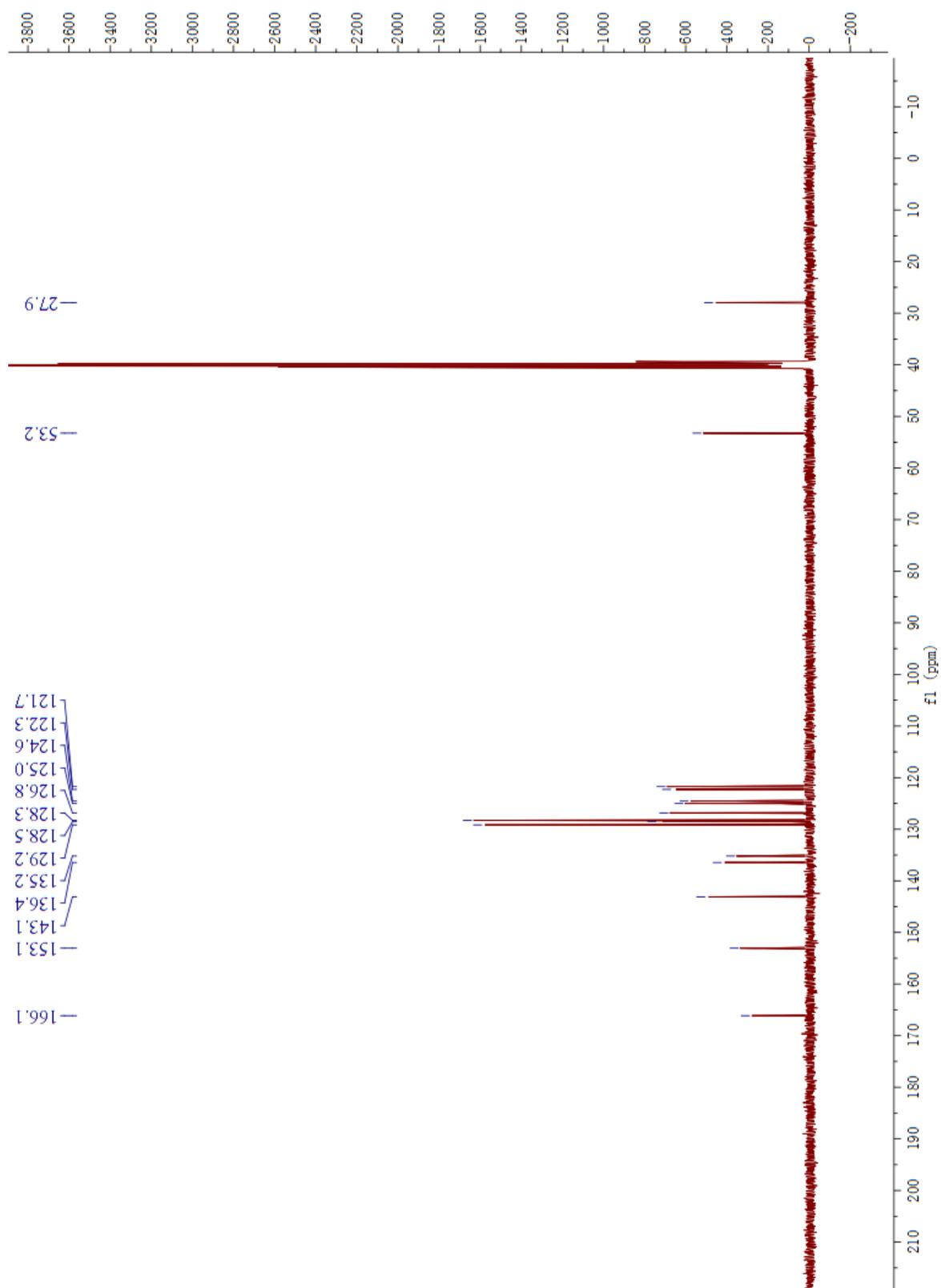


Figure S 14:  $^{13}\text{C}$  NMR of compound 6g



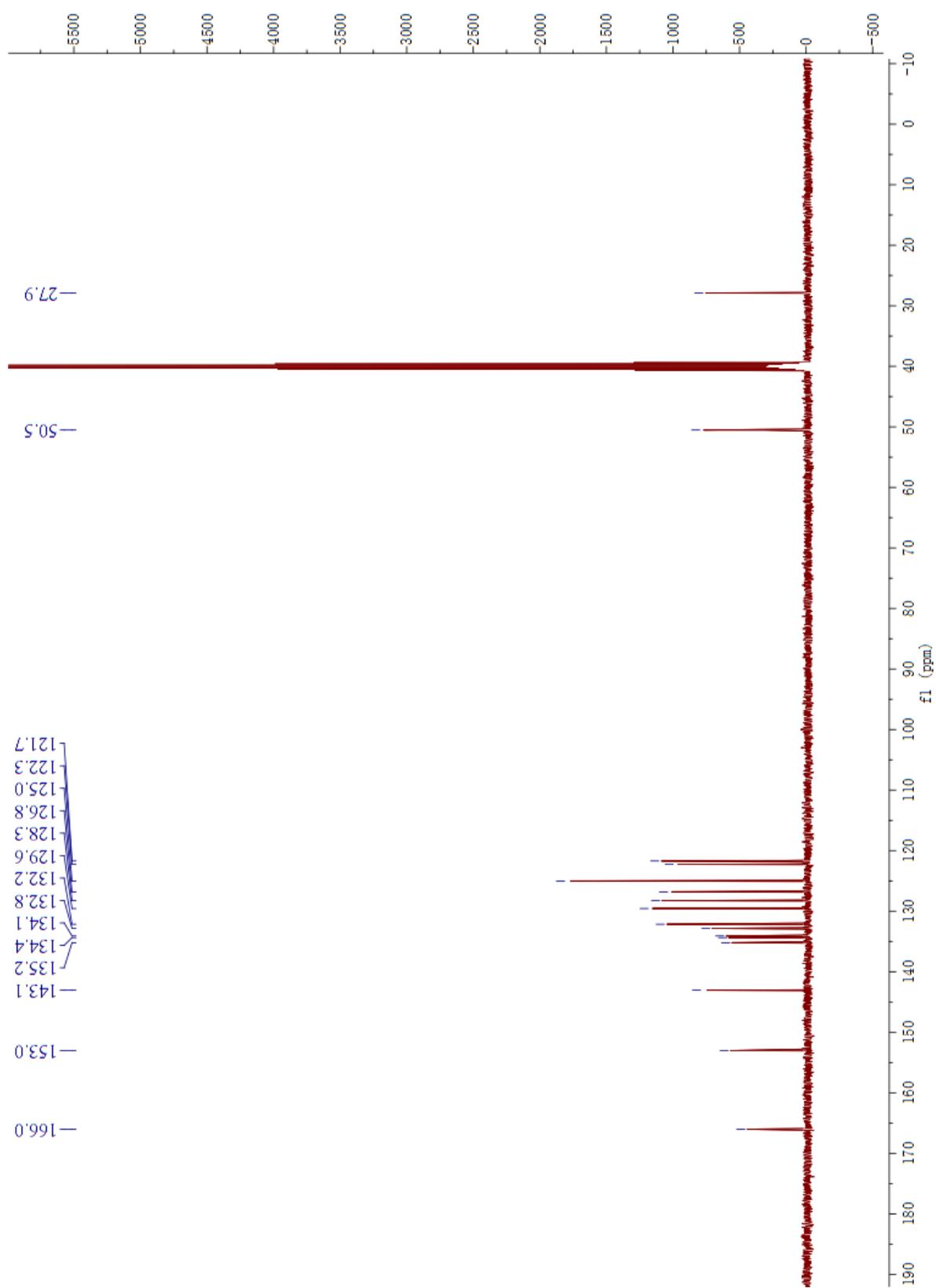


Figure S 16:  $^{13}\text{C}$  NMR of compound 6h

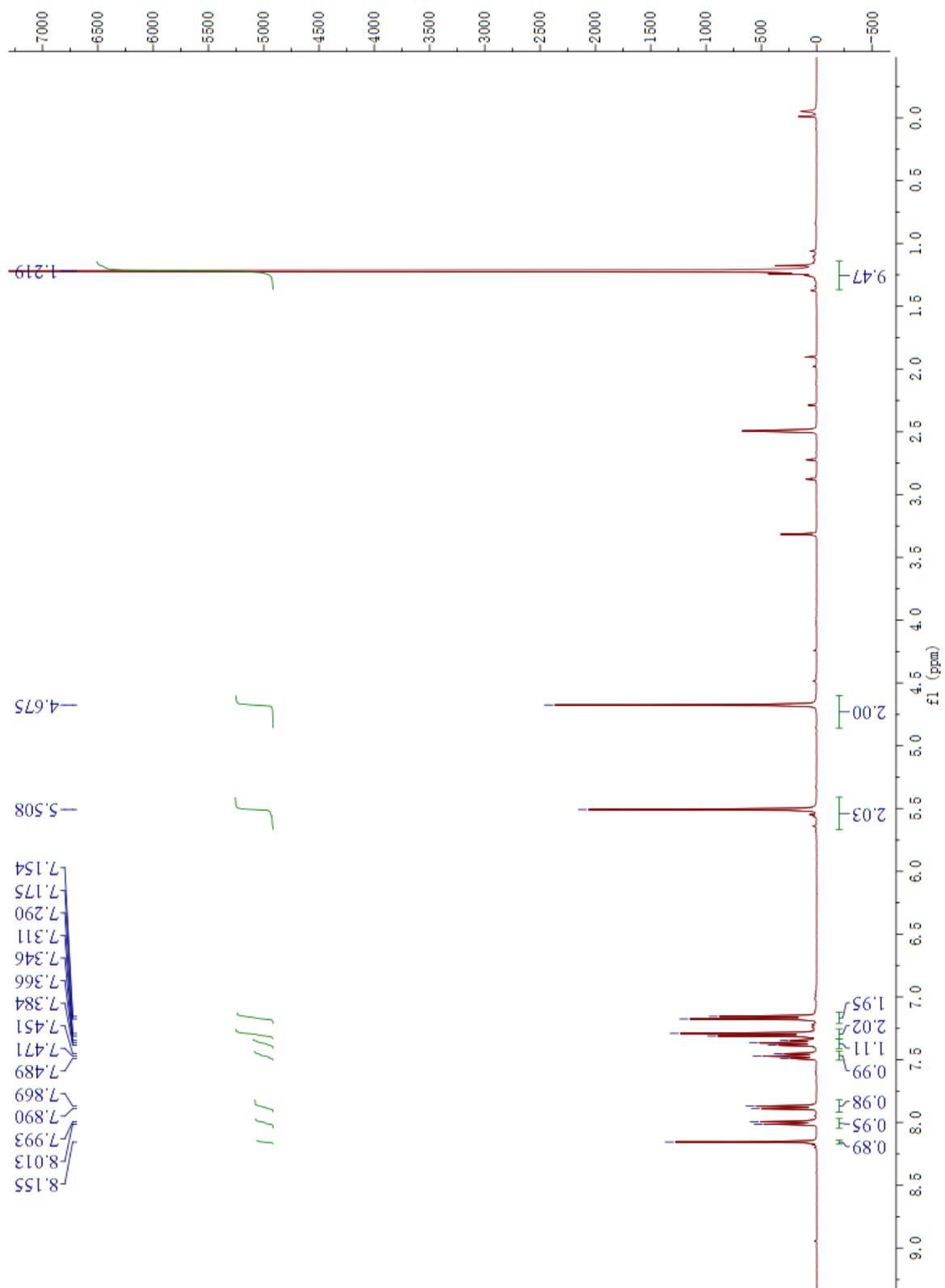


Figure S 17: <sup>1</sup>H NMR of compound 6i

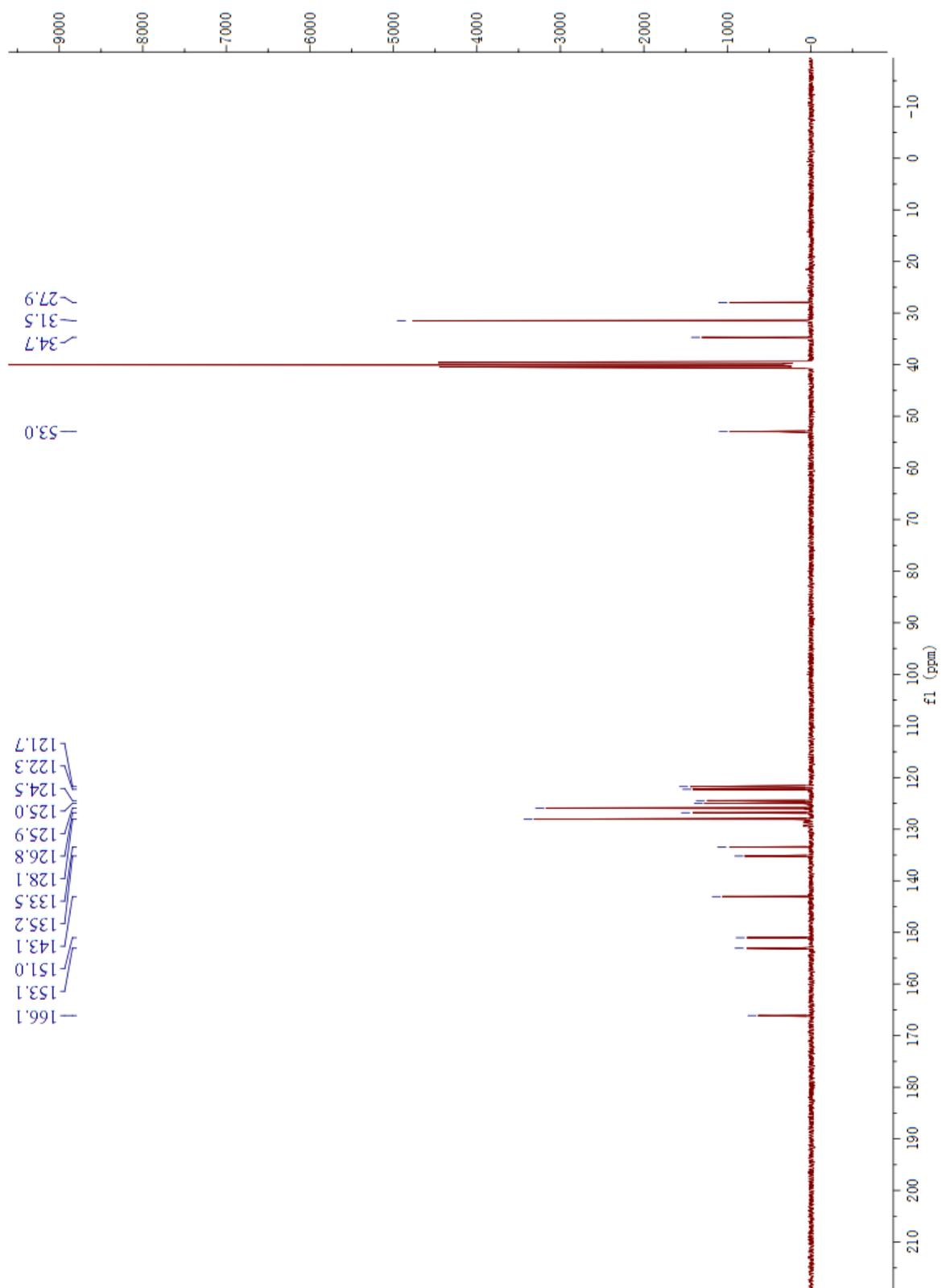


Figure S 18:  $^{13}\text{C}$  NMR of compound 6i

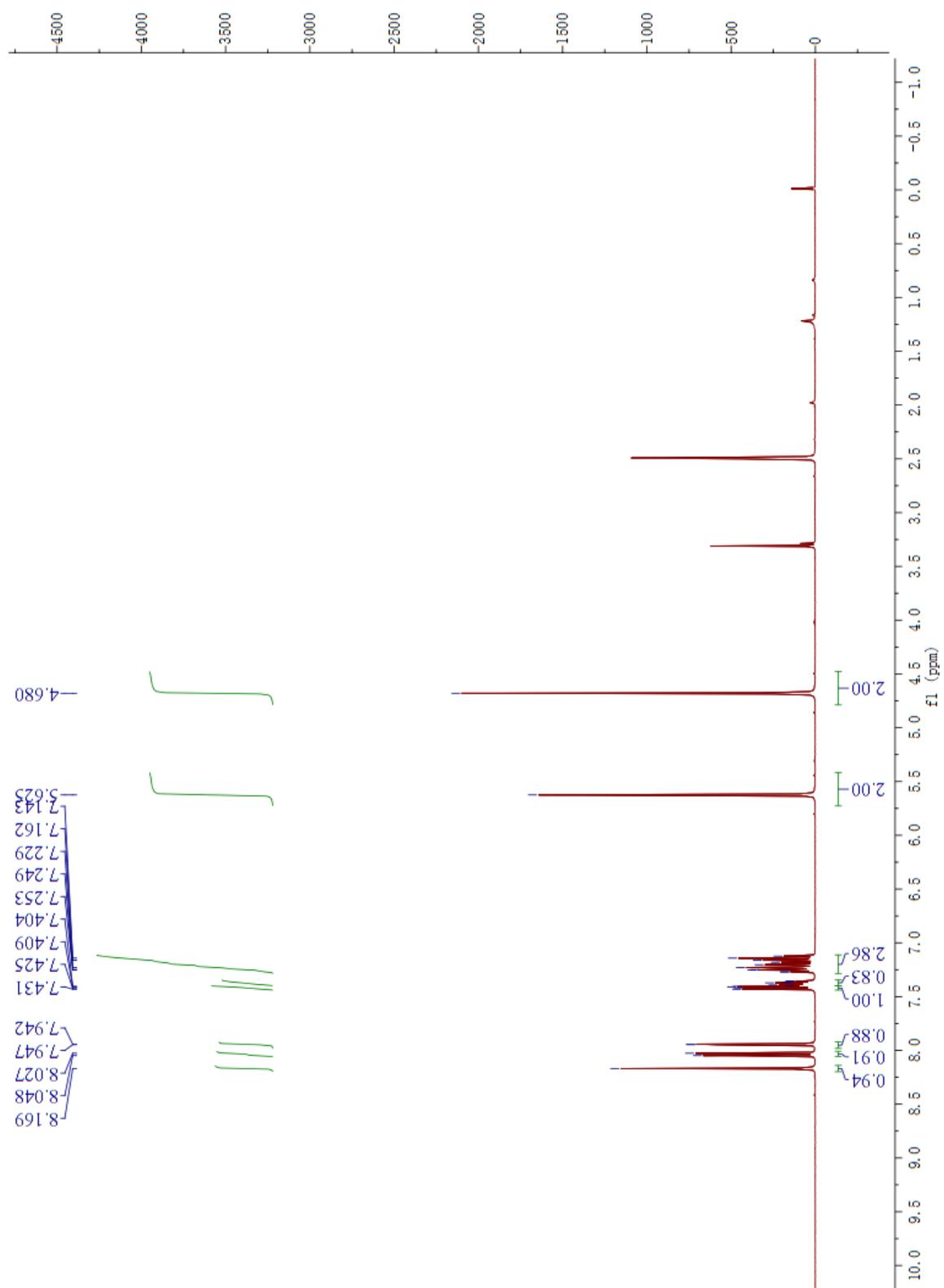
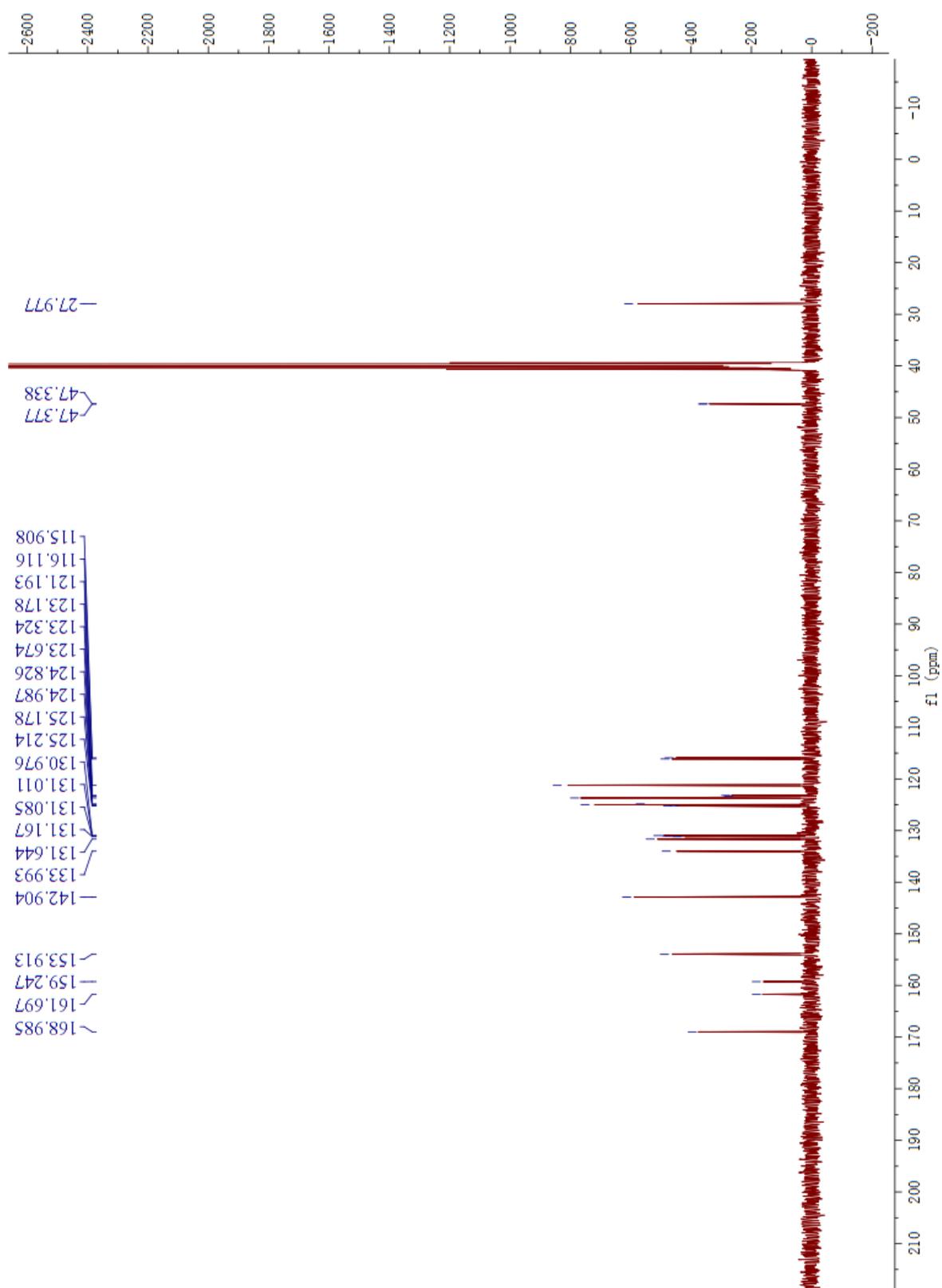


Figure S 19: <sup>1</sup>H NMR of compound 6j



**Figure S 20:  $^{13}\text{C}$  NMR of compound 6j**

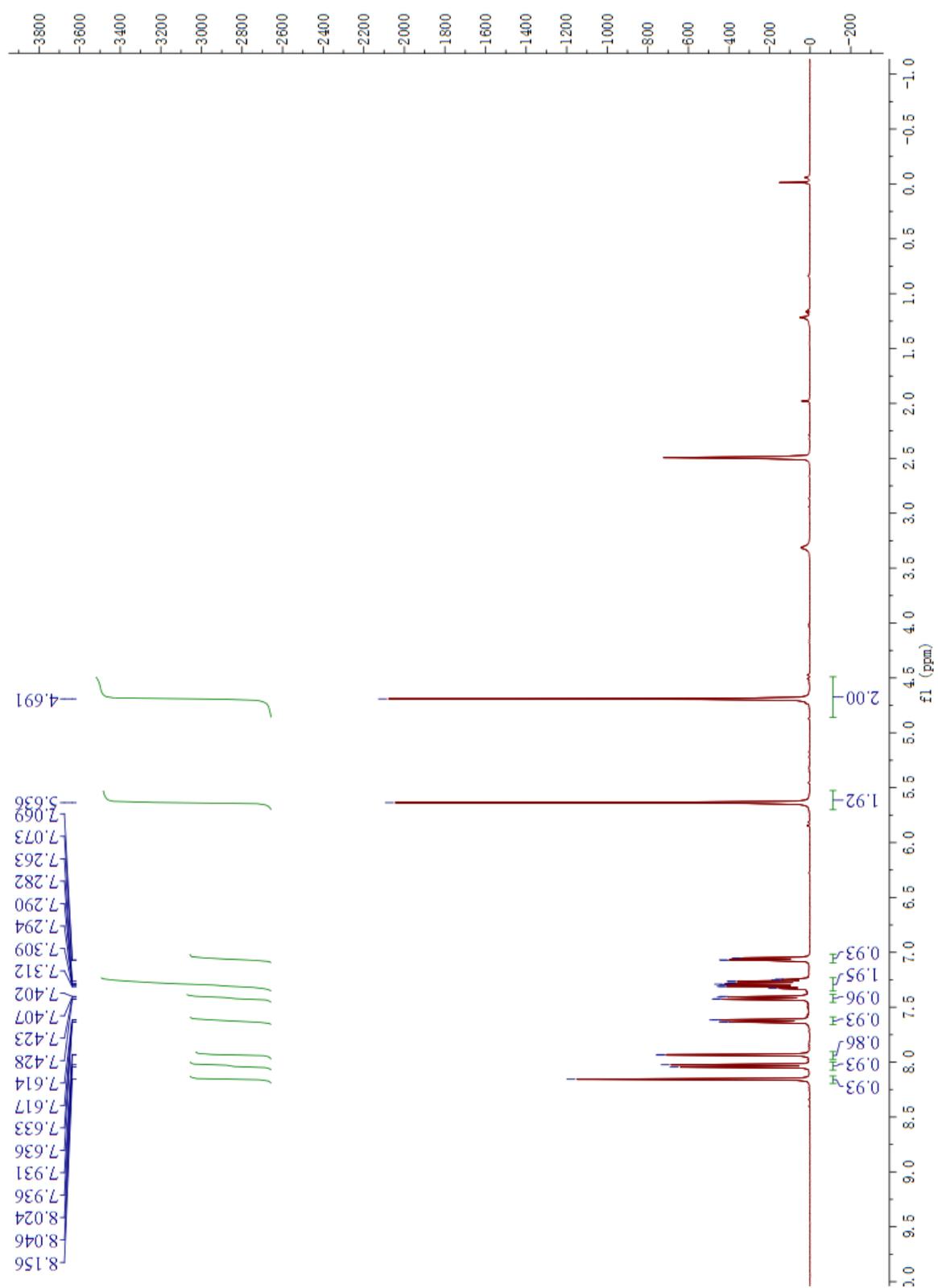


Figure S 21:  $^1\text{H}$  NMR of compound 6k

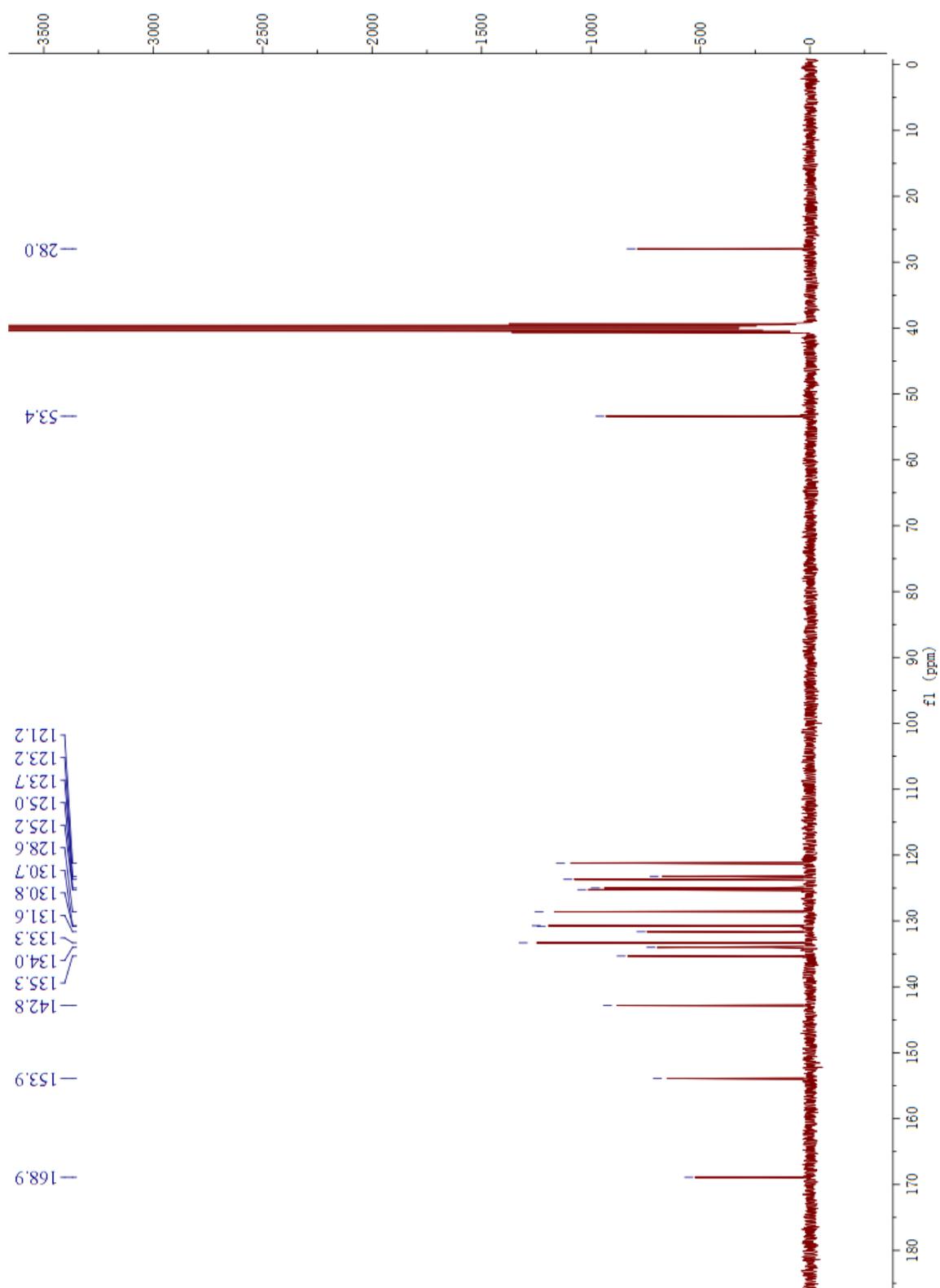
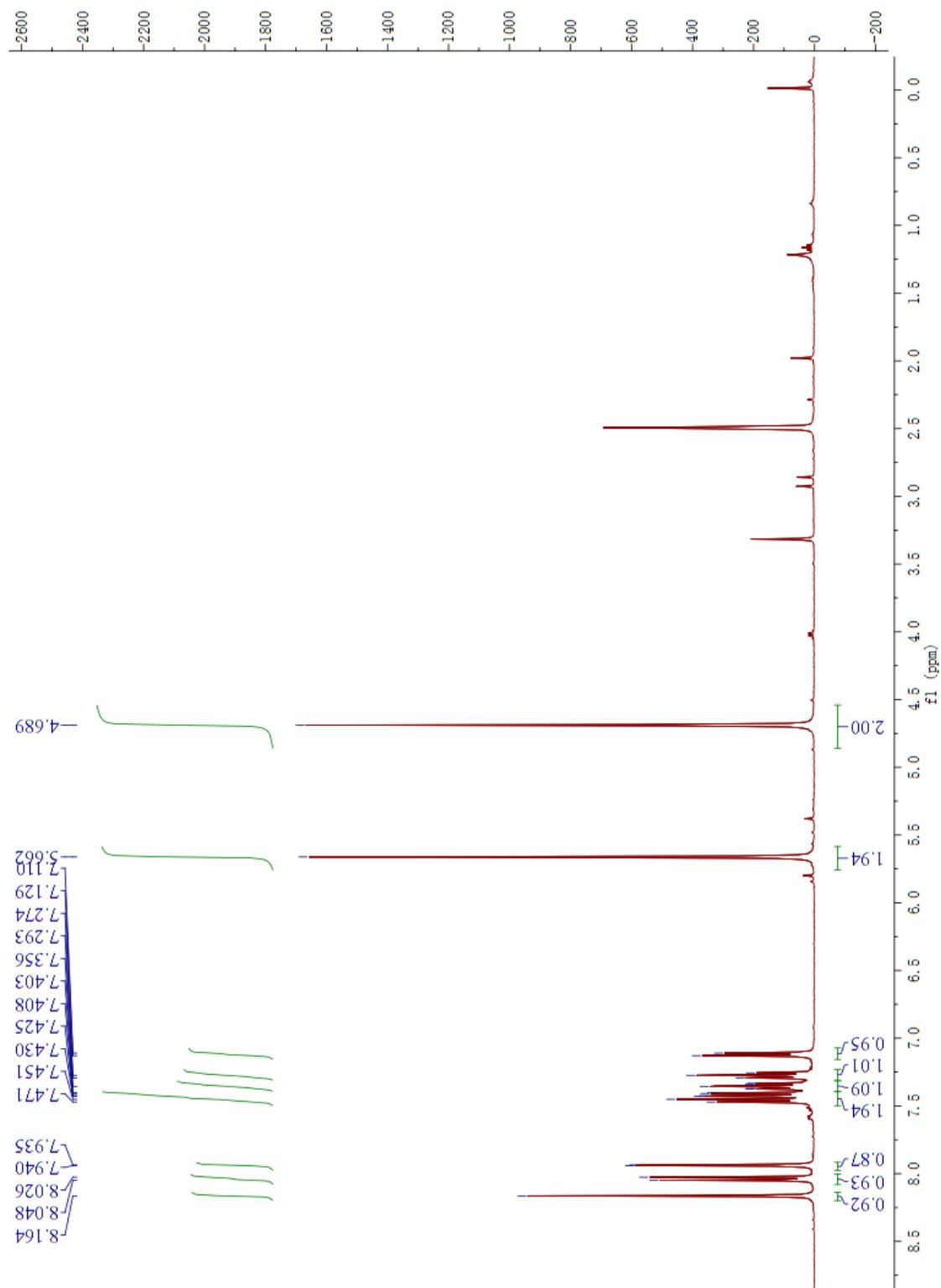


Figure S 22:  $^{13}\text{C}$  NMR of compound 6k



**Figure S 23:  $^1\text{H}$  NMR of compound 6l**

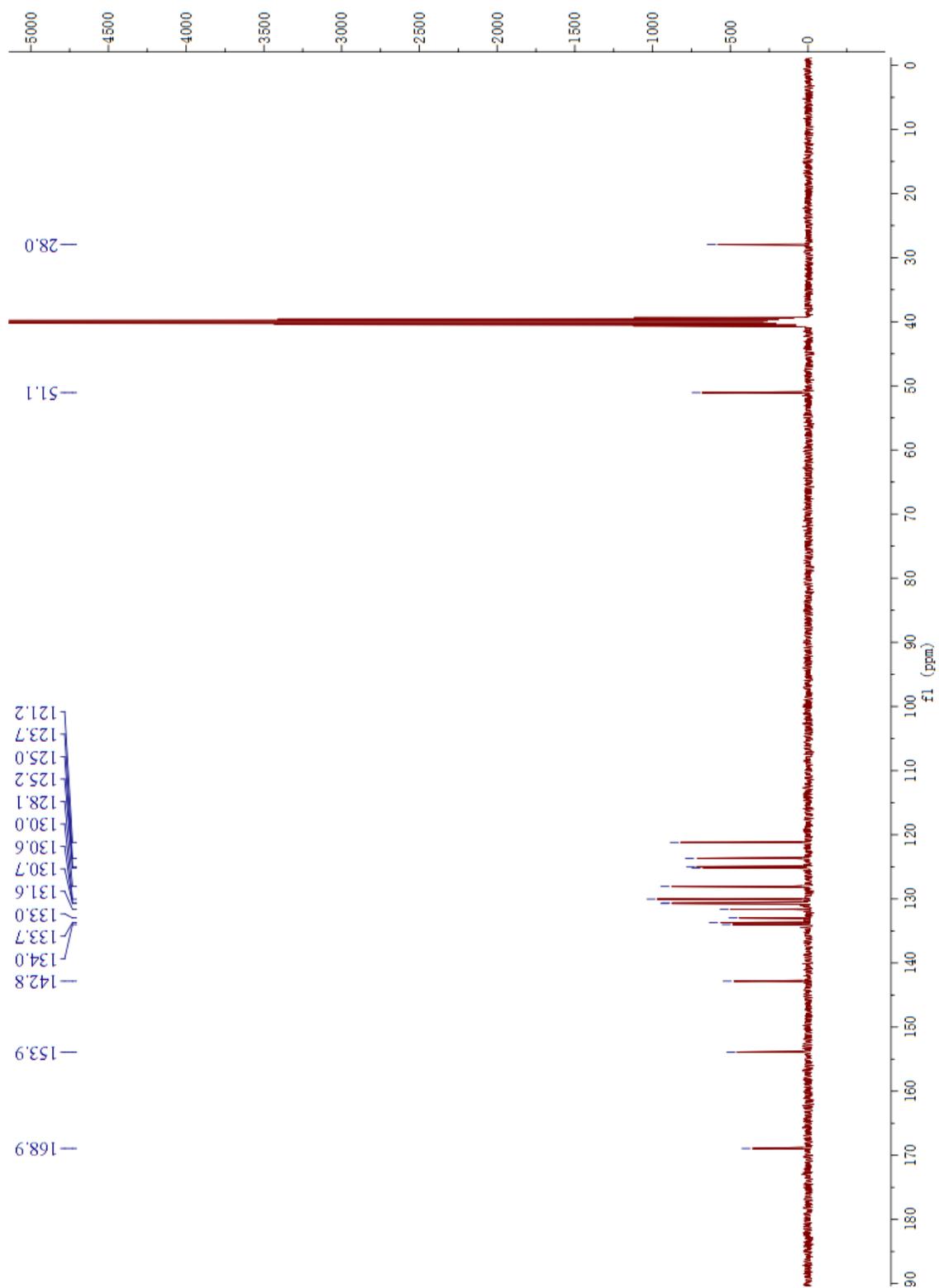


Figure S 24:  $^{13}\text{C}$  NMR of compound 6l

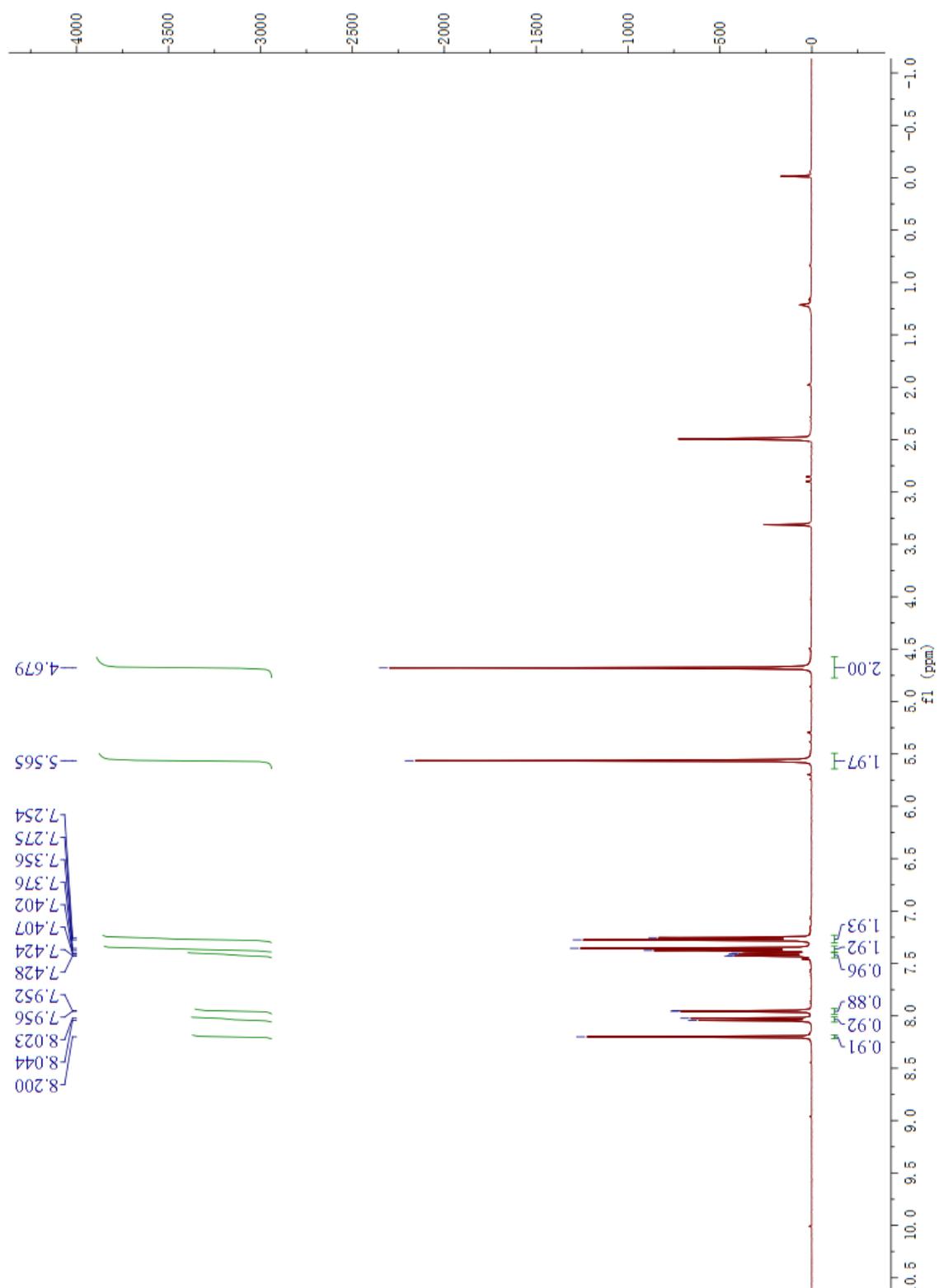


Figure S 25:  $^1\text{H}$  NMR of compound 6m

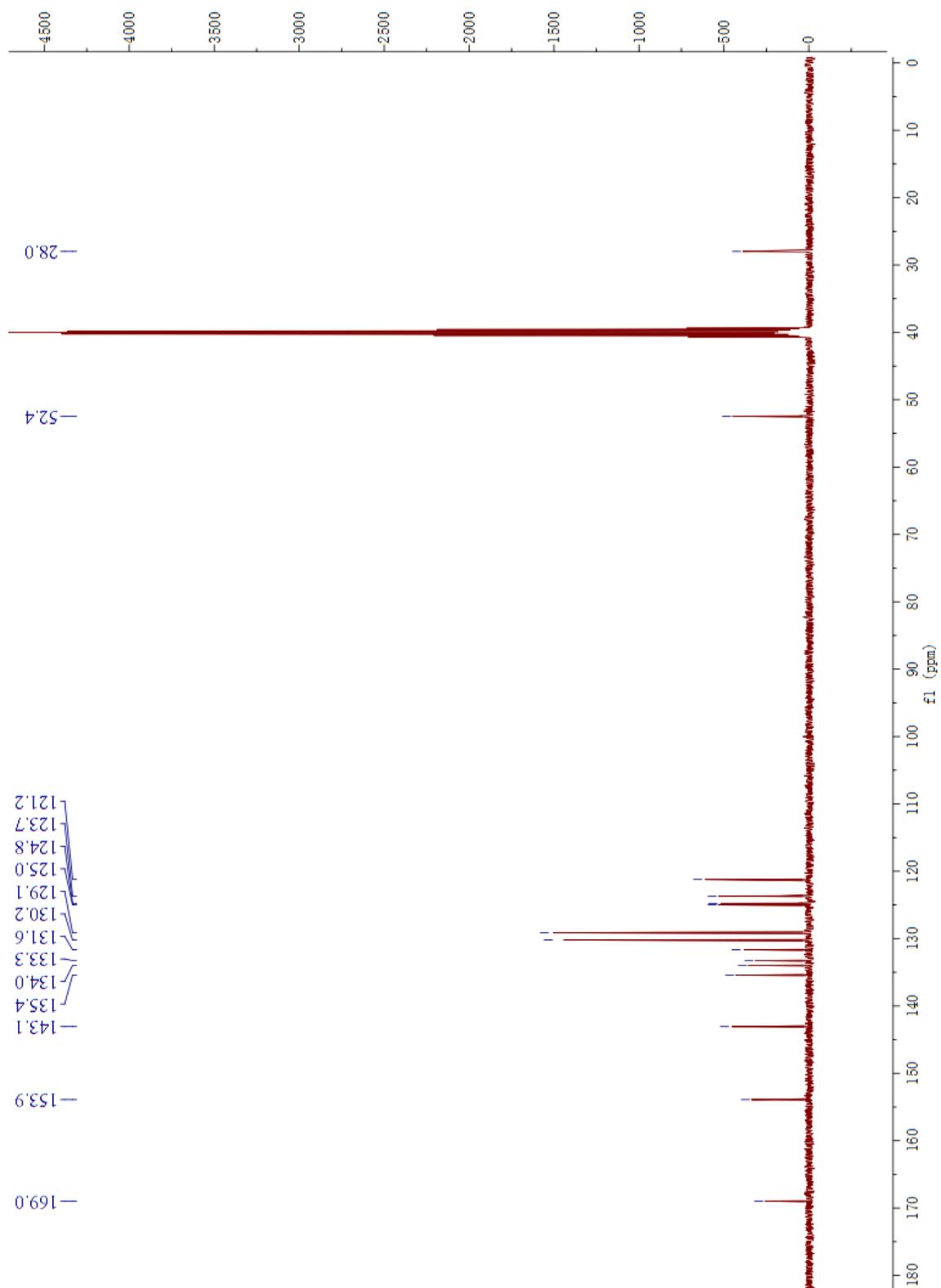


Figure S 26:  $^{13}\text{C}$  NMR of compound 6m

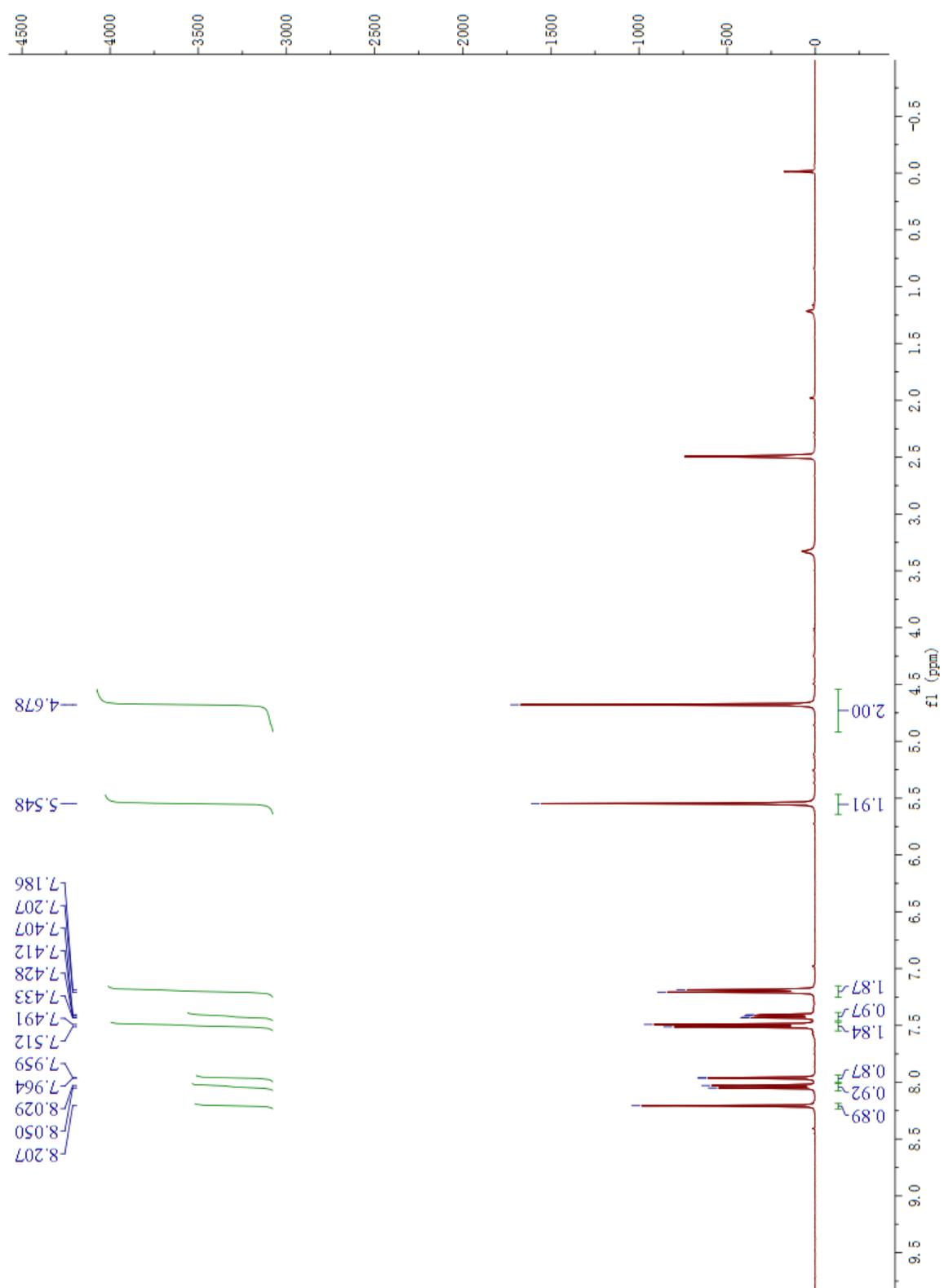


Figure S 27:  $^1\text{H}$  NMR of compound 6n

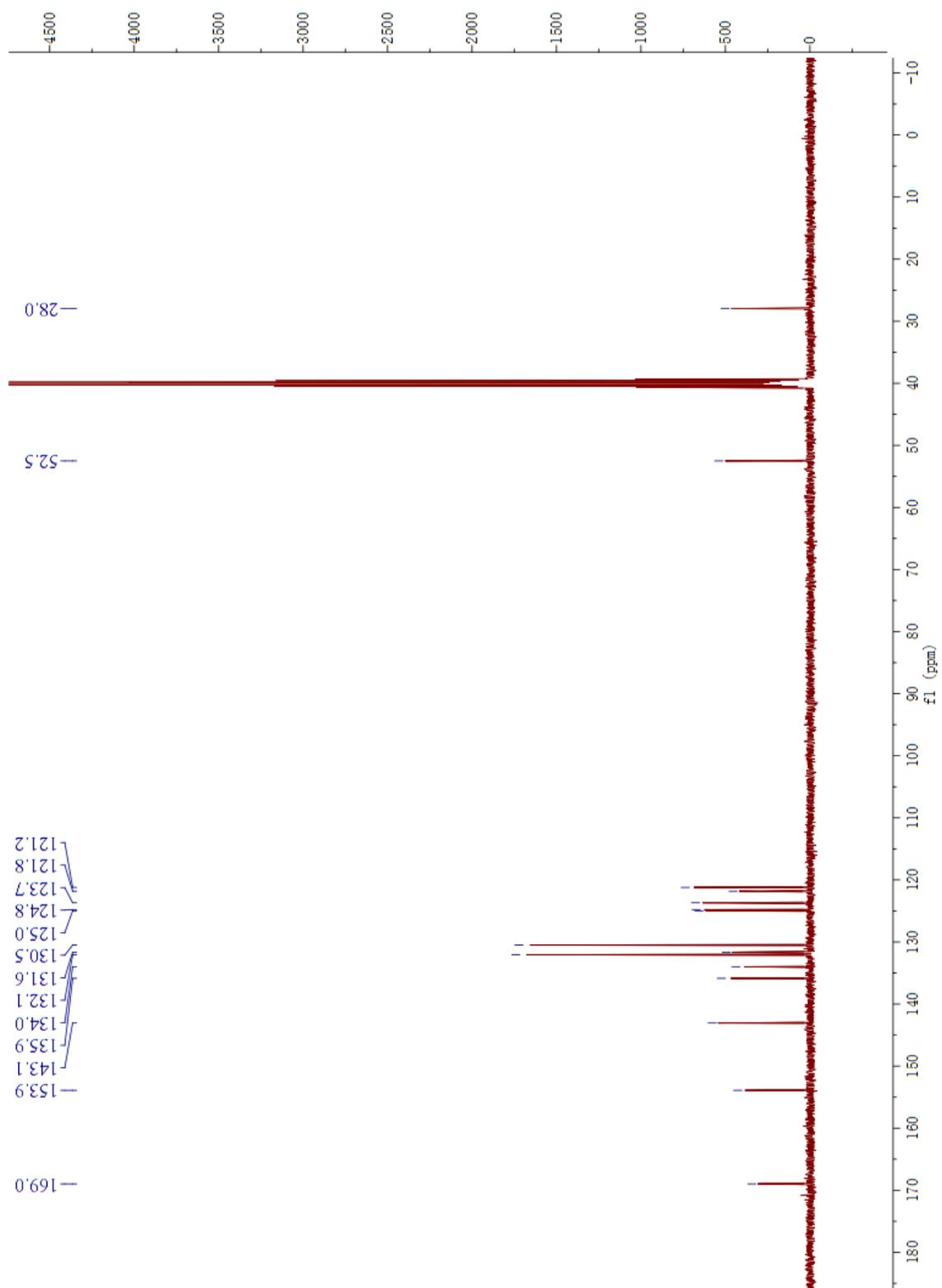
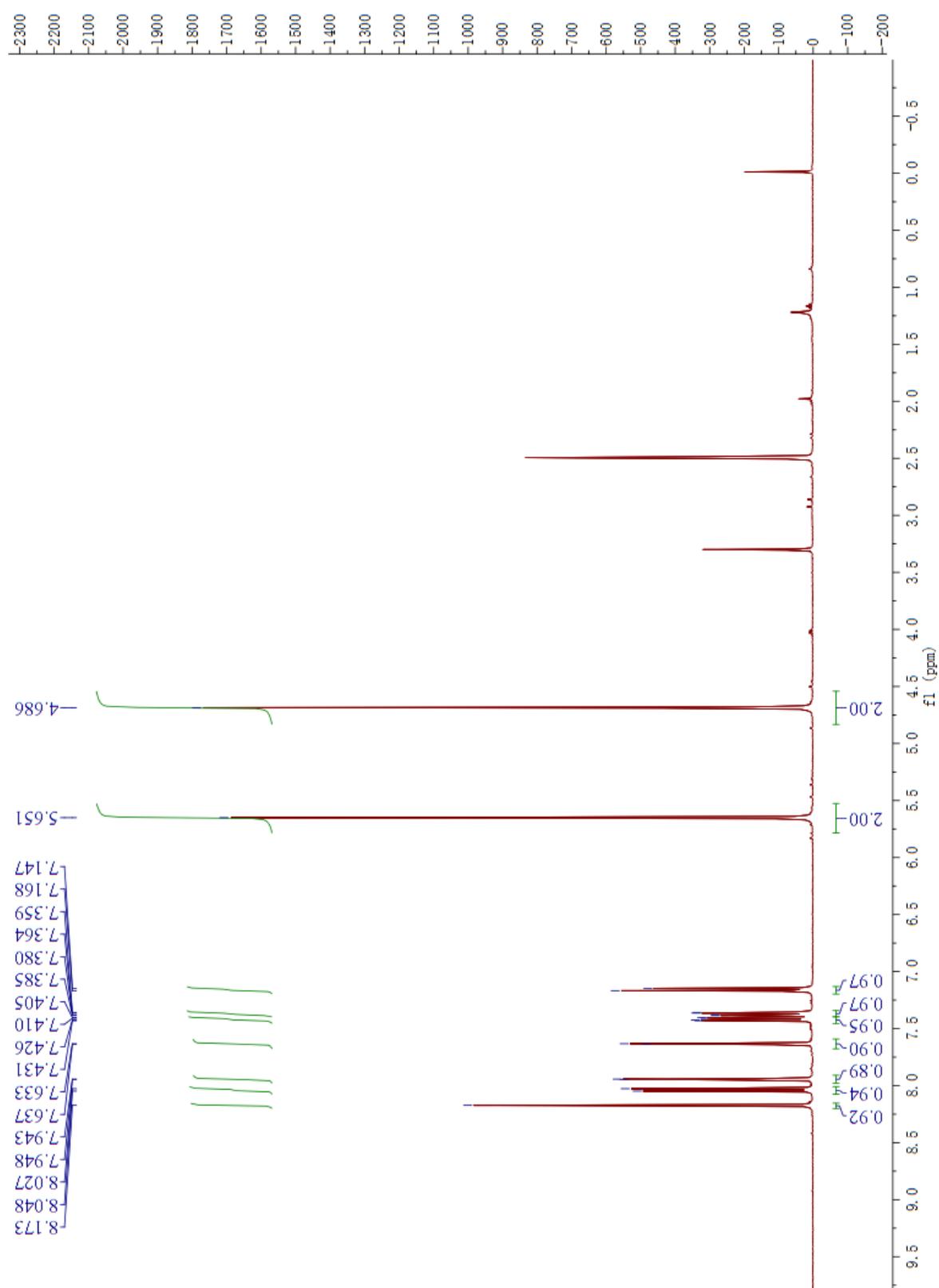


Figure S 28: <sup>13</sup>C NMR of compound 6n



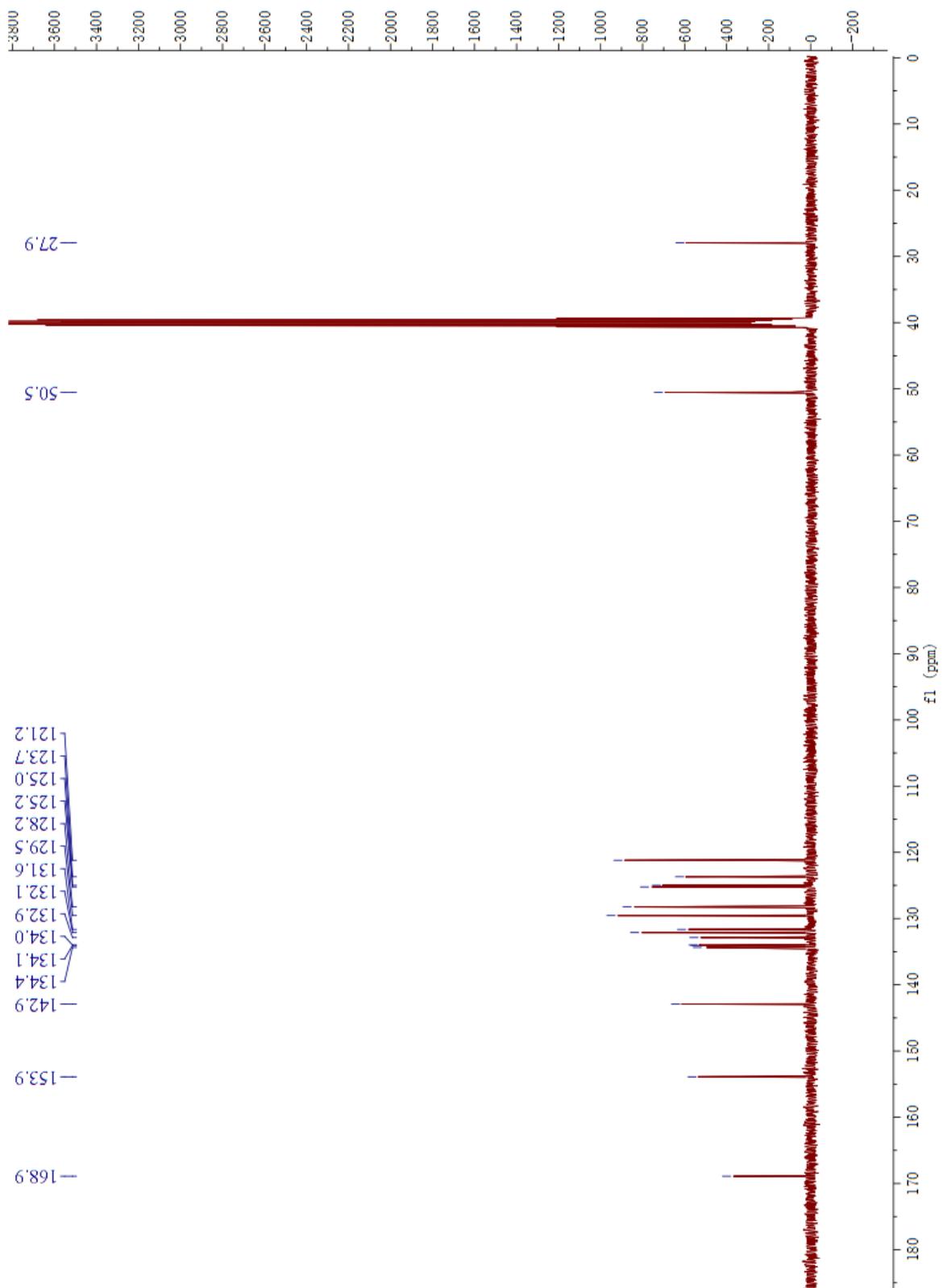


Figure S 30:  $^{13}\text{C}$  NMR of compound 60

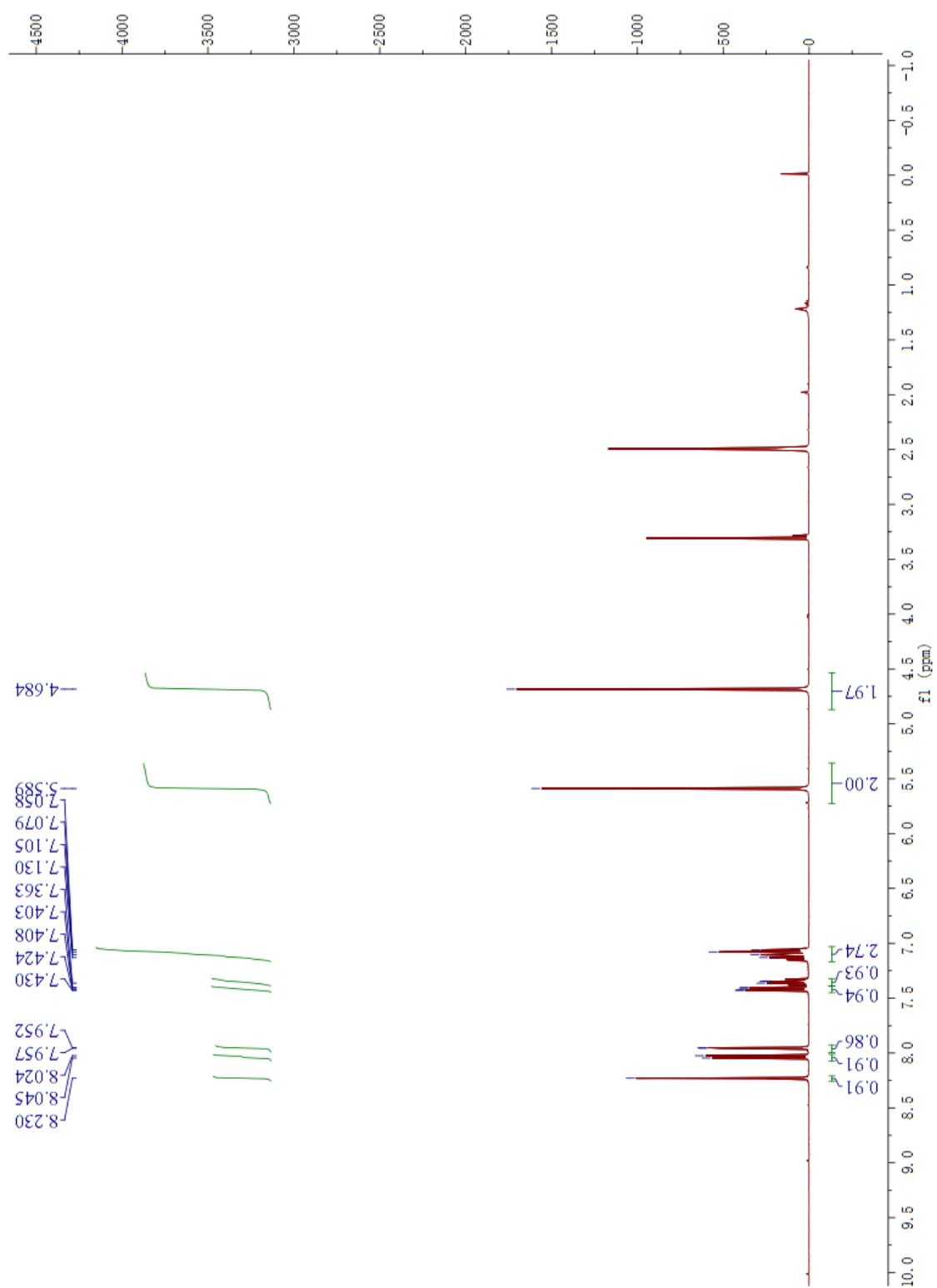


Figure S 31: <sup>1</sup>H NMR of compound 6p

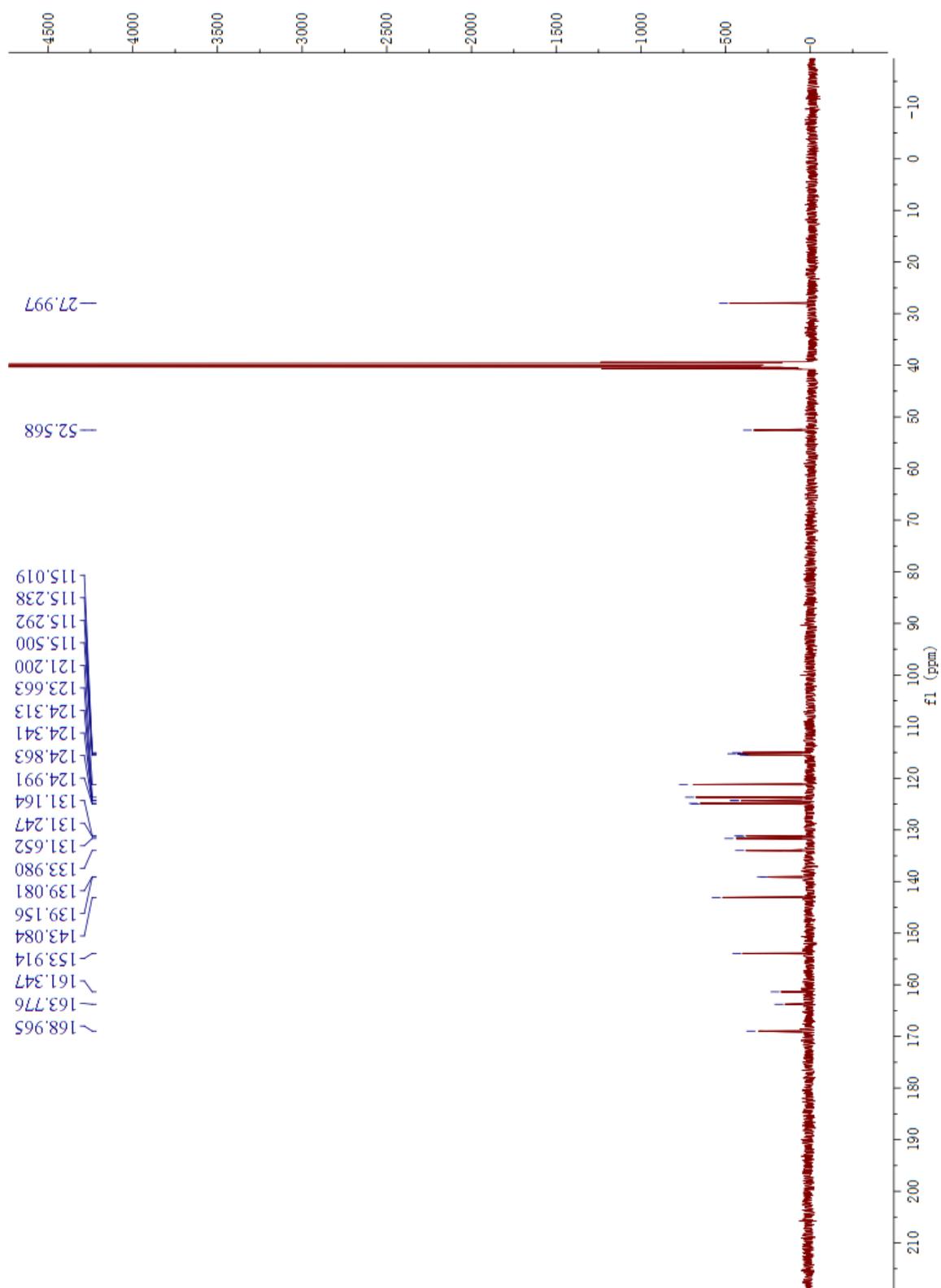
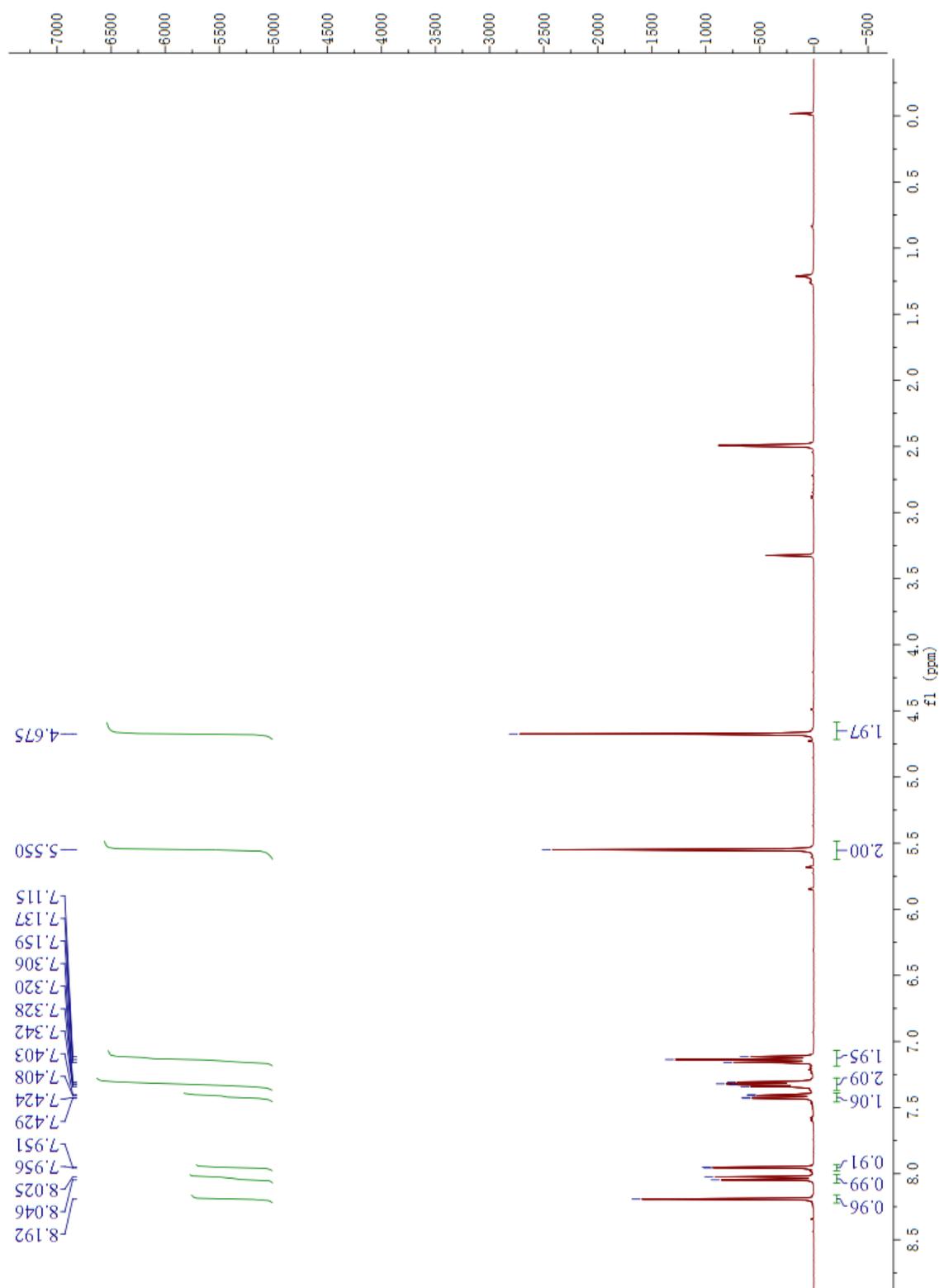


Figure S 32:  $^{13}\text{C}$  NMR of compound 6p



**Figure S 33:**  $^1\text{H}$  NMR of compound 6q

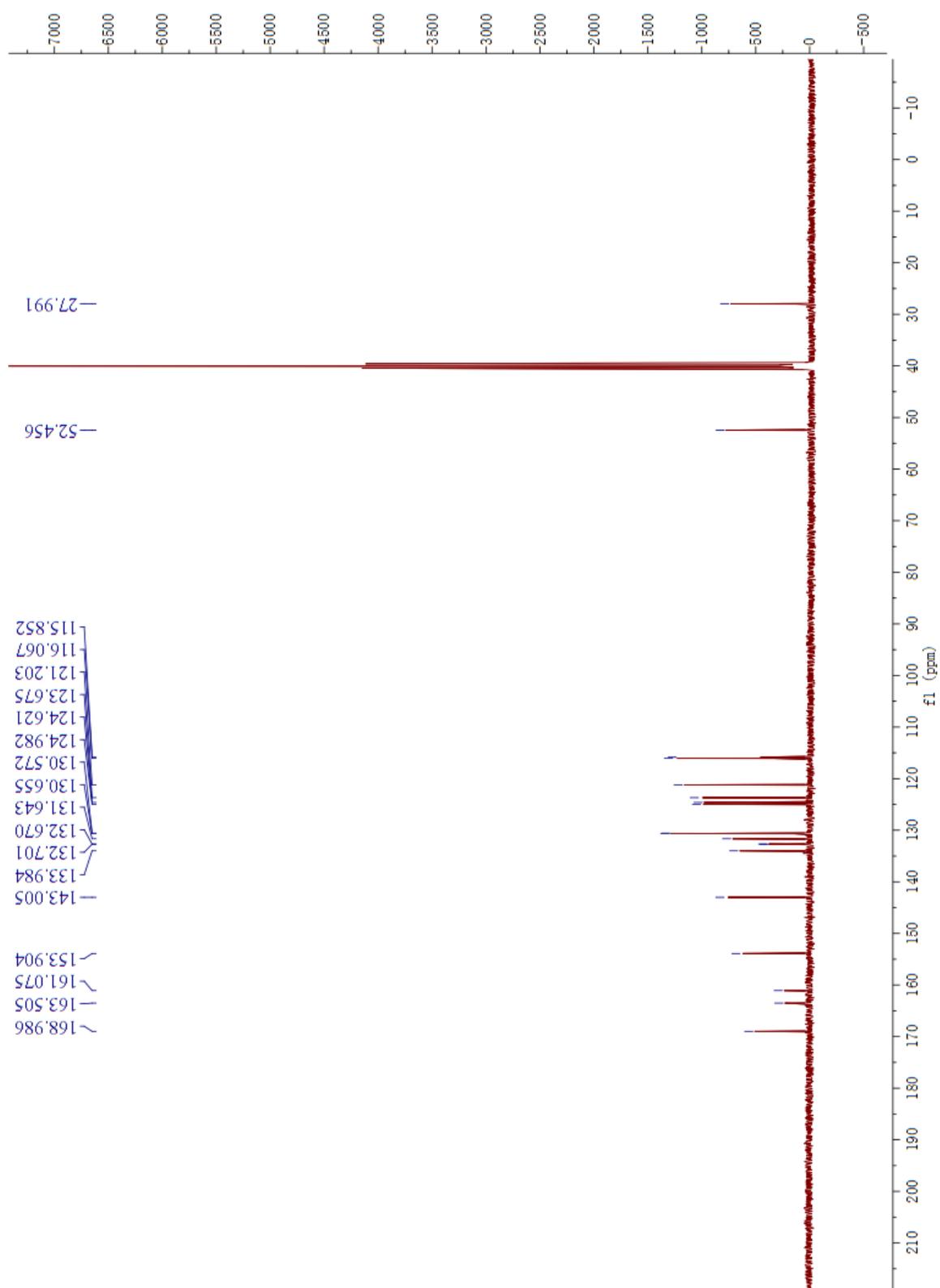


Figure S 34:  $^{13}\text{C}$  NMR of compound 6q

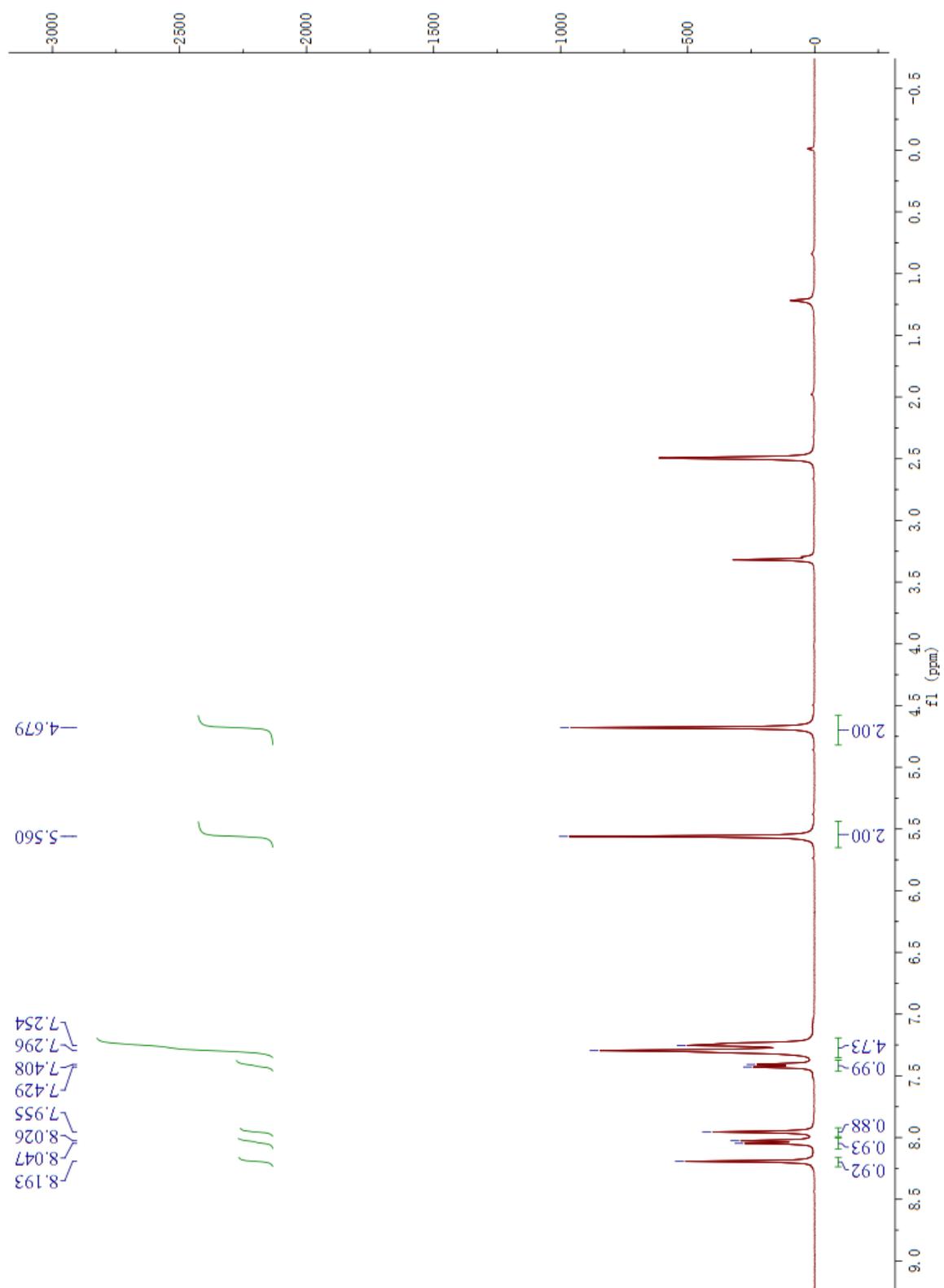


Figure S 35:  $^1\text{H}$  NMR of compound **6r**

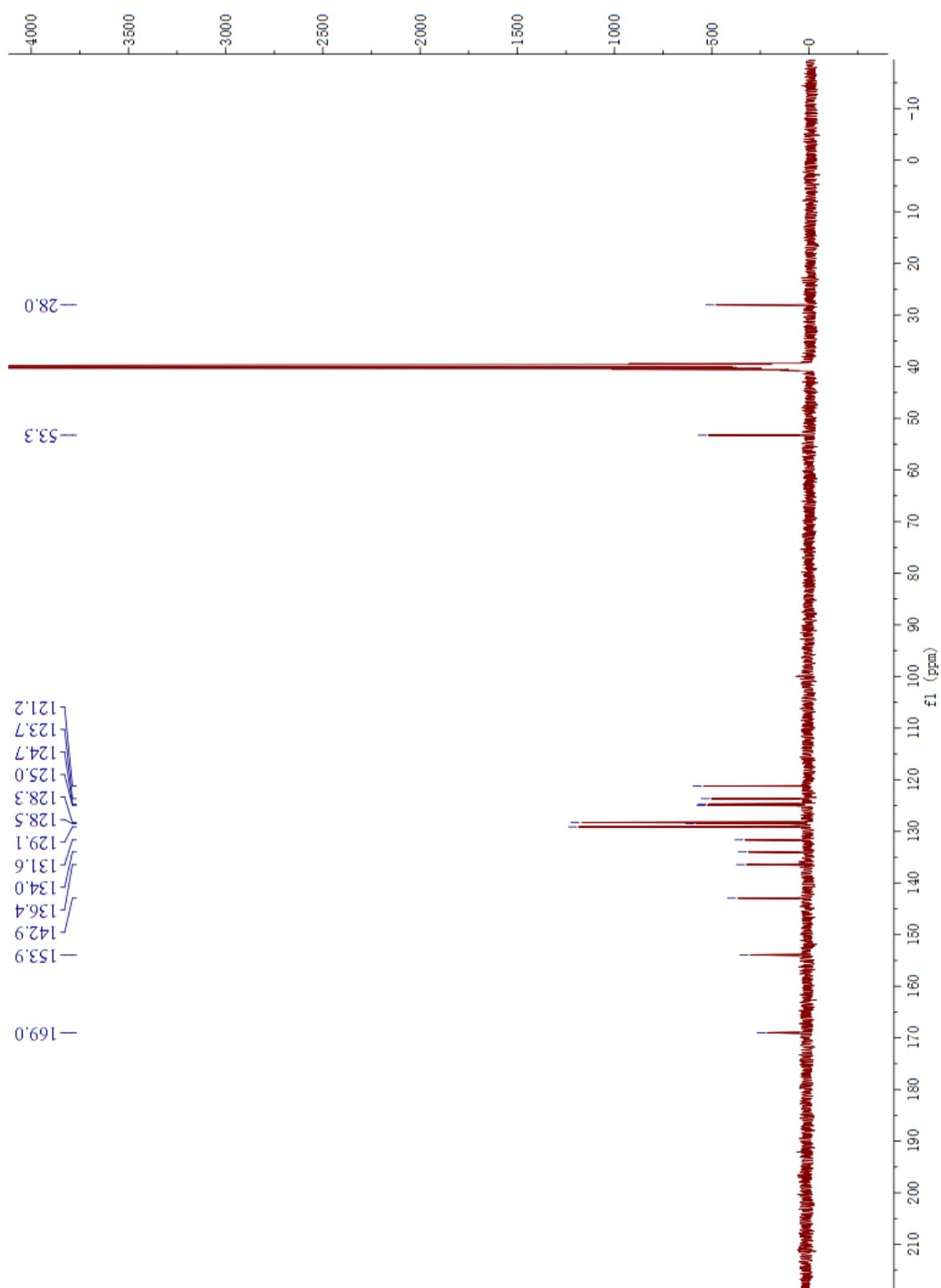


Figure S 36:  $^{13}\text{C}$  NMR of compound 6r

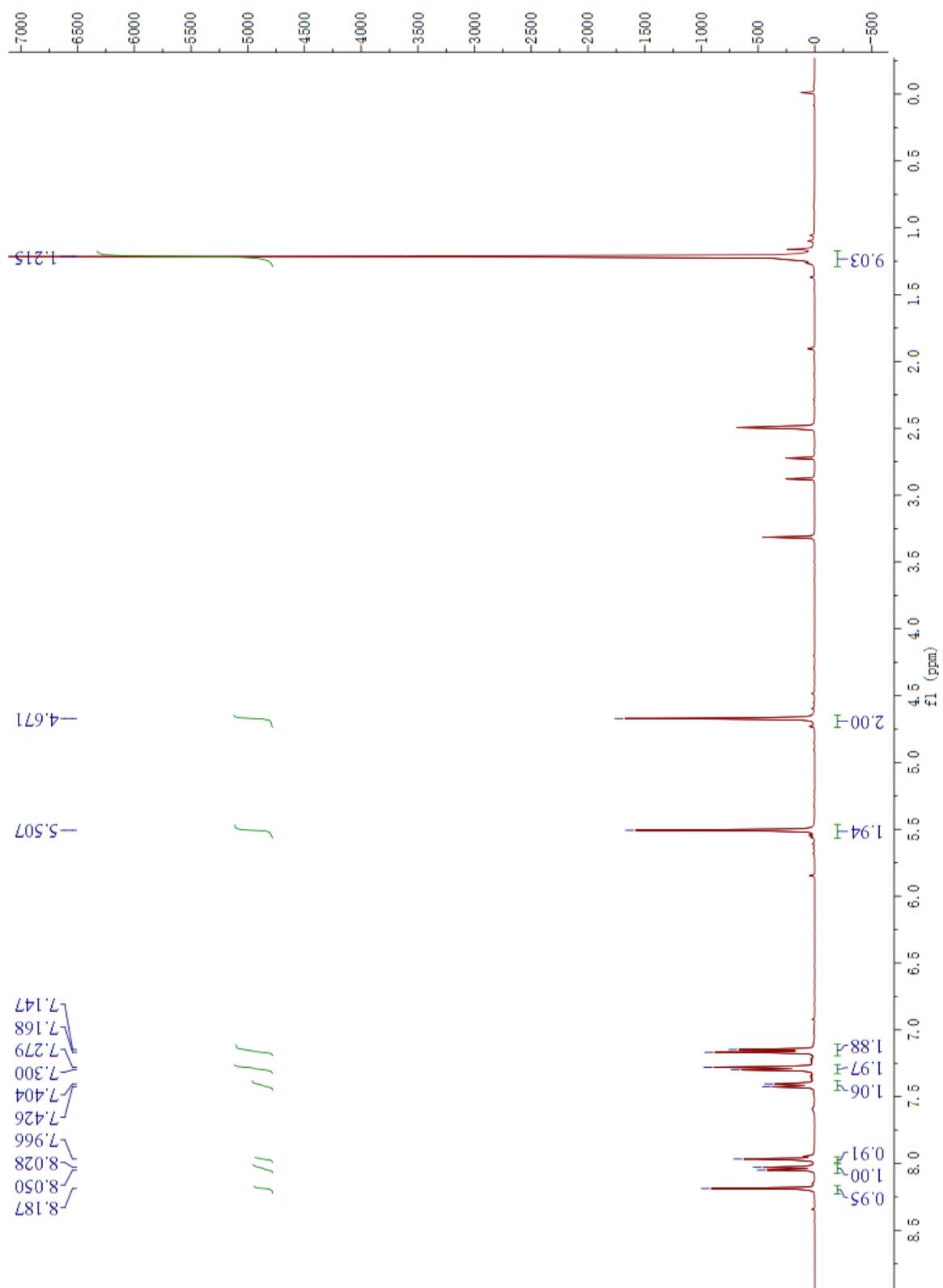


Figure S 37: <sup>1</sup>H NMR of compound 6s

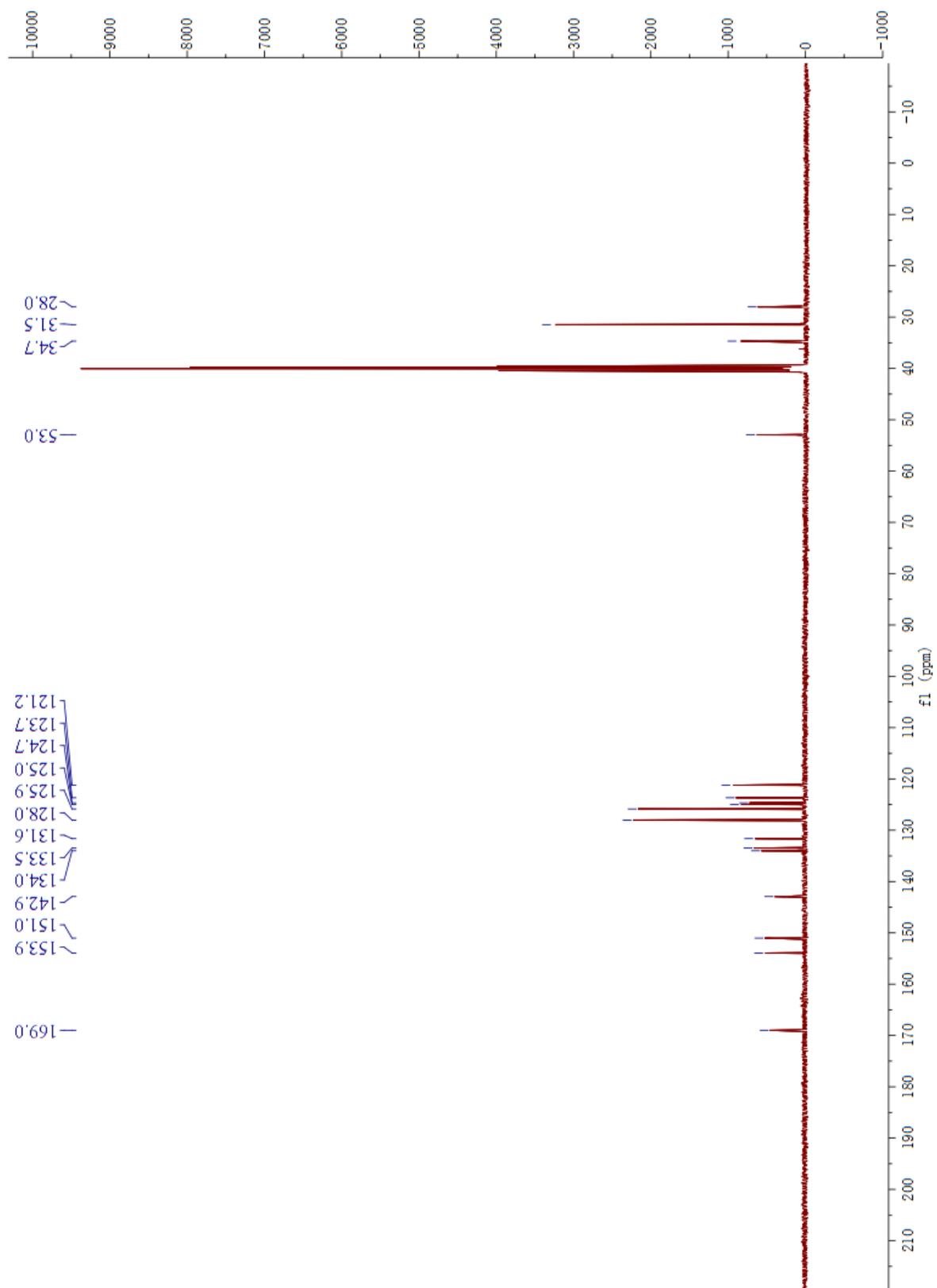


Figure S 38:  $^{13}\text{C}$  NMR of compound 6s