

Supporting Information

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Figure 1a. $^1\text{H-NMR}$ spectrum (MeOD, 600 MHz) of compound **1**.

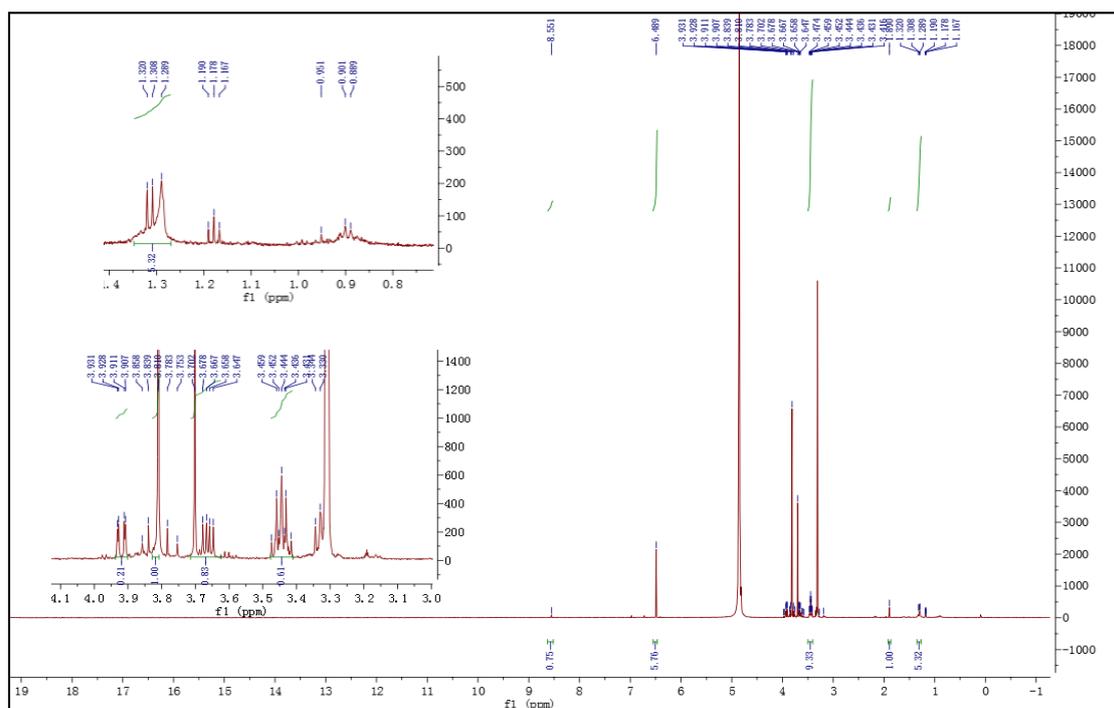


Figure 1b. $^{13}\text{C-NMR}$ spectrum (MeOD, 150 MHz) of compound **1**.

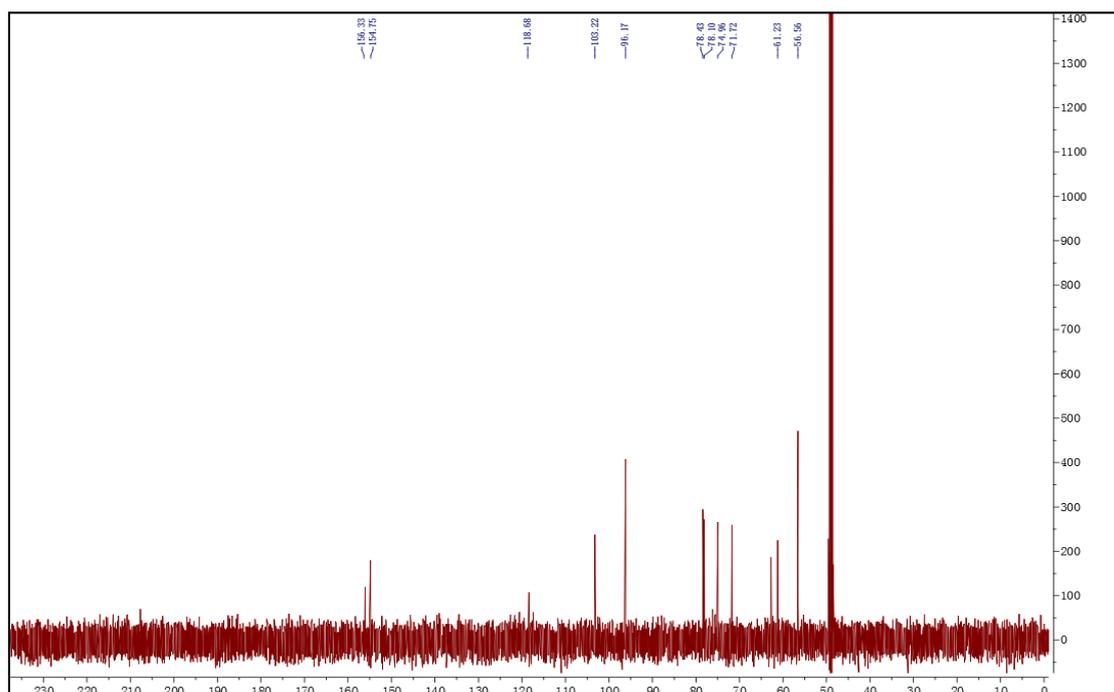


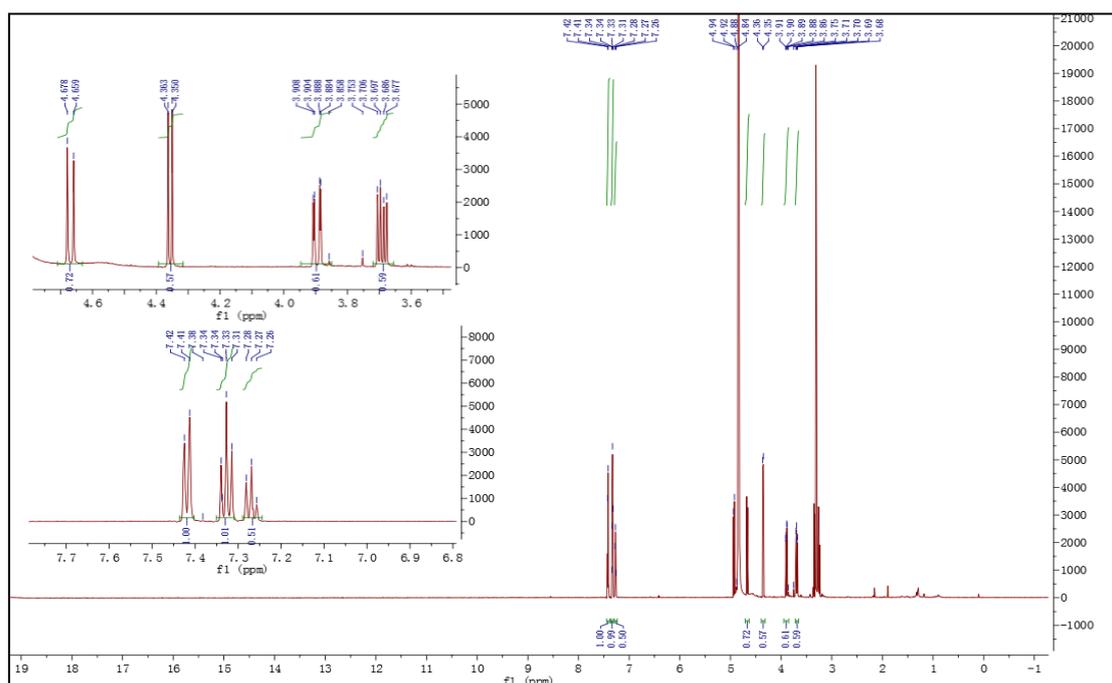
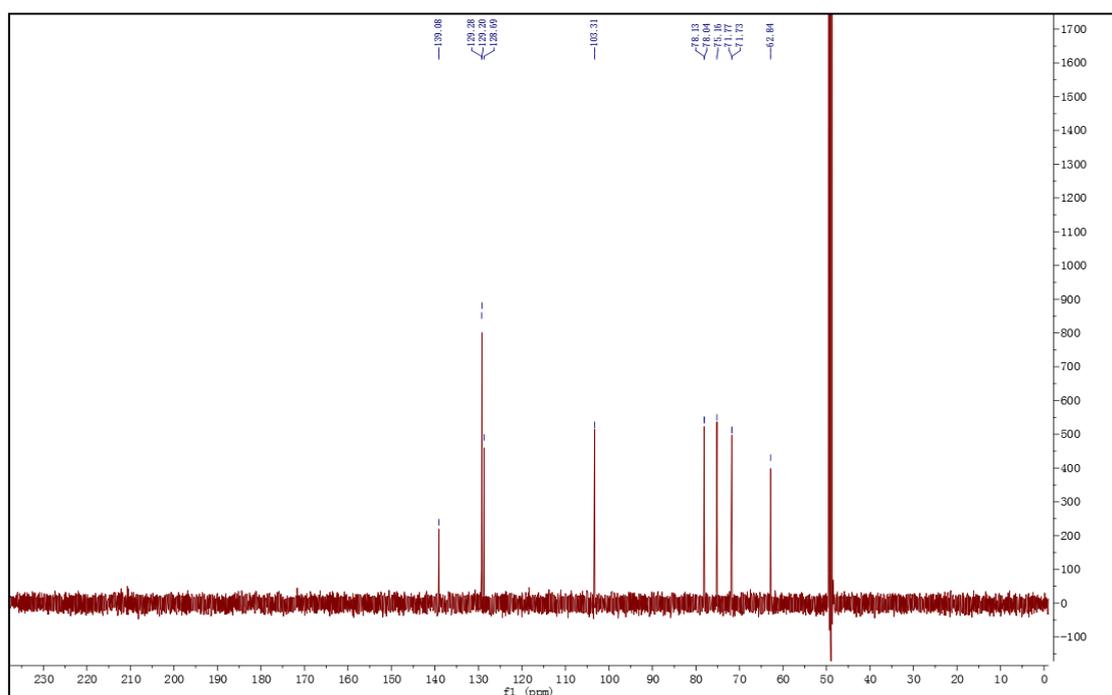
Figure 2a. $^1\text{H-NMR}$ spectrum (MeOD, 600 MHz) of compound **2**.**Figure 2b.** $^{13}\text{C-NMR}$ spectrum (MeOD, 150 MHz) of compound **2**.

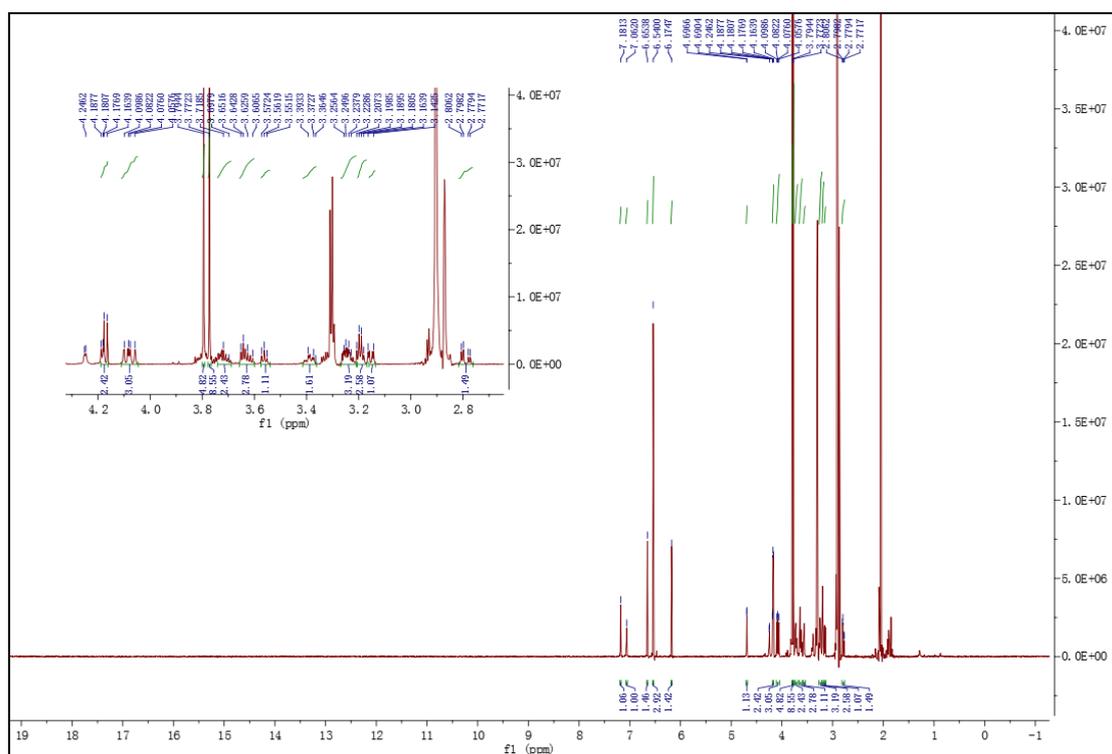
Figure 3a. $^1\text{H-NMR}$ spectrum (Acetone- d_6 , 600 MHz) of compound 3.

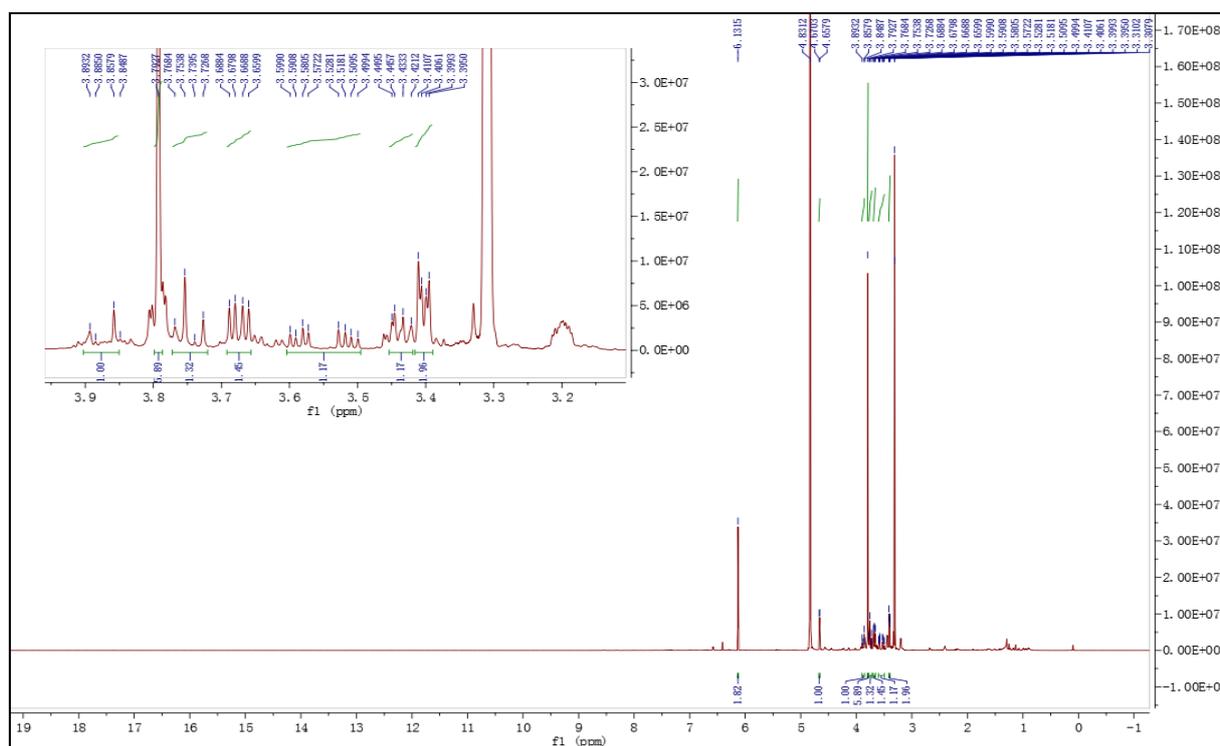
Figure 5a. ^1H -NMR spectrum (MeOD, 600 MHz) of compound **5**.

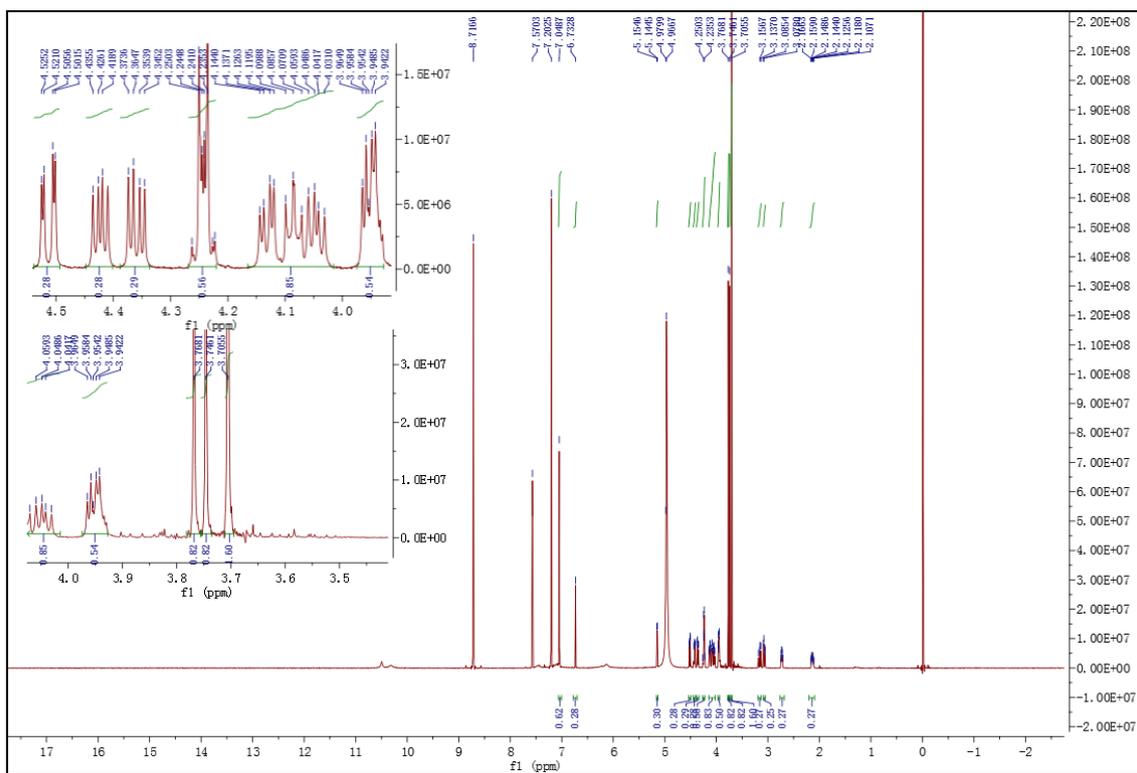
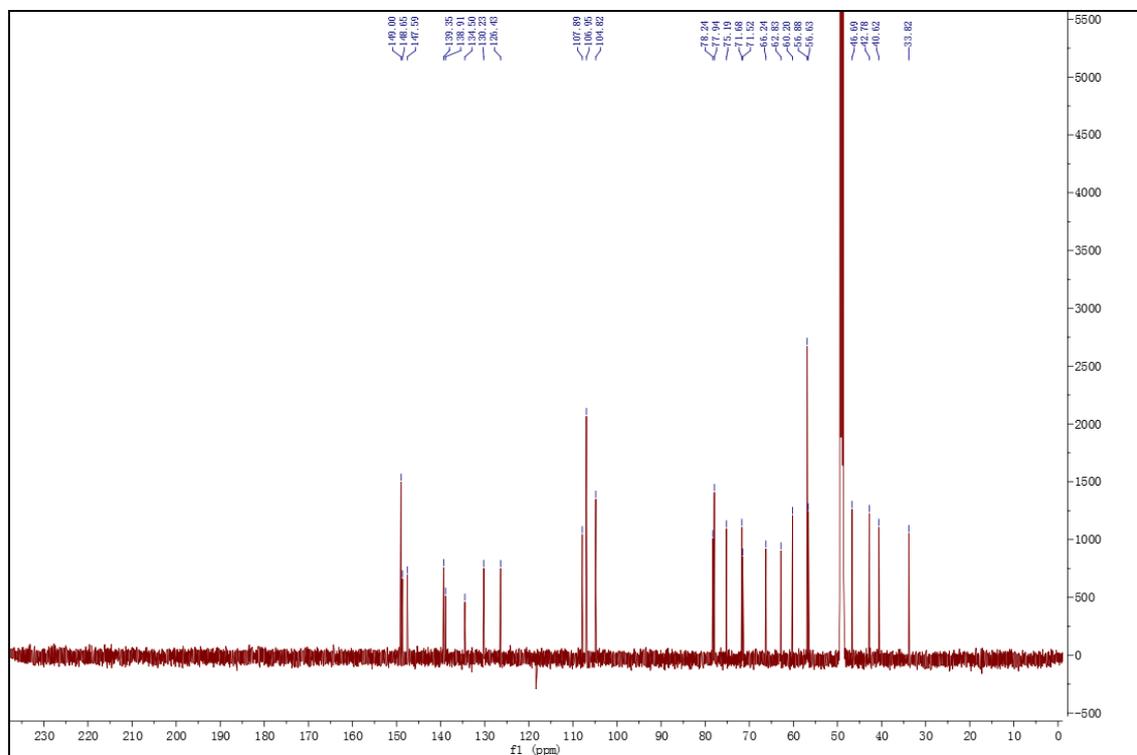
Figure 6a. $^1\text{H-NMR}$ spectrum ($\text{C}_5\text{D}_5\text{N}$, 600 MHz) of compound **6**.**Figure 6b.** $^{13}\text{C-NMR}$ spectrum (MeOD, 150 MHz) of compound **6**.

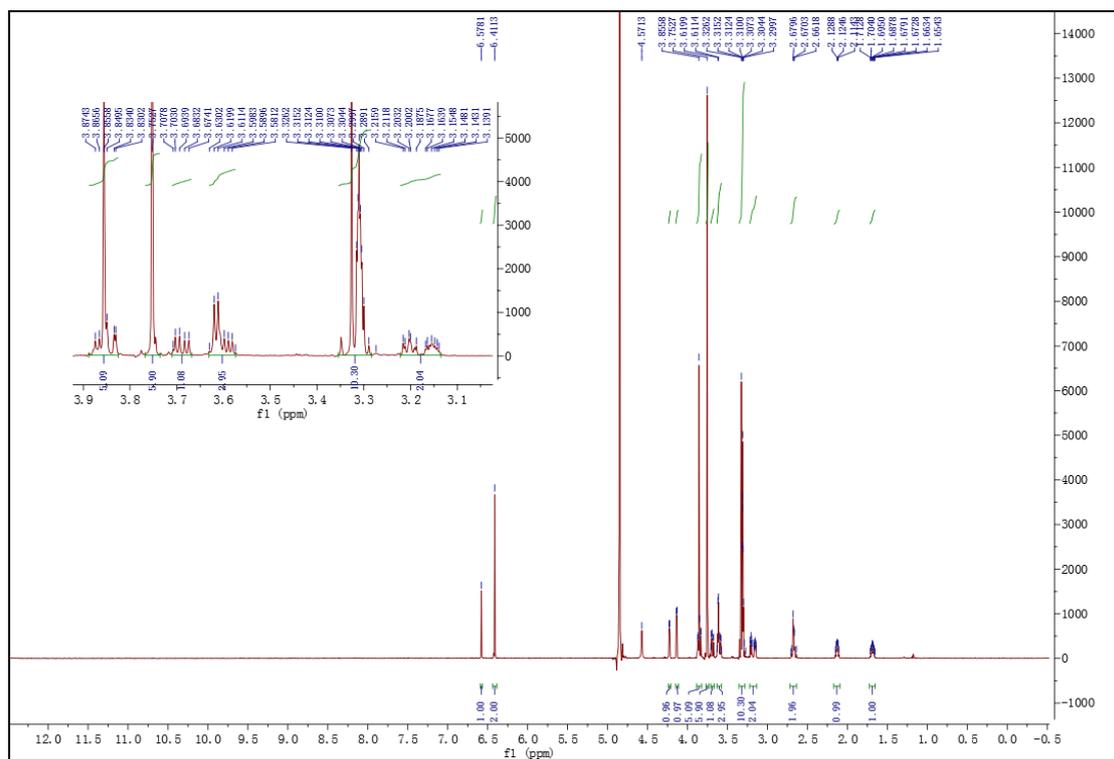
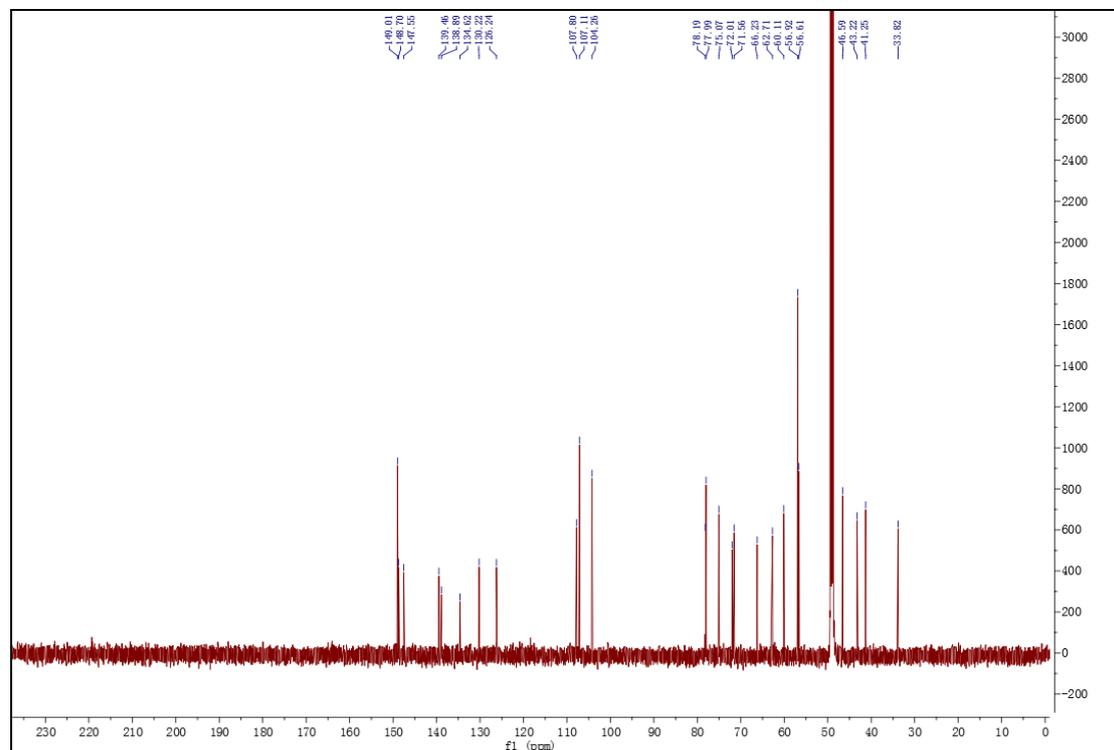
Figure 7a. ^1H -NMR spectrum (MeOD, 600 MHz) of compound 7.**Figure 7b.** ^{13}C -NMR spectrum (MeOD, 150 MHz) of compound 7.

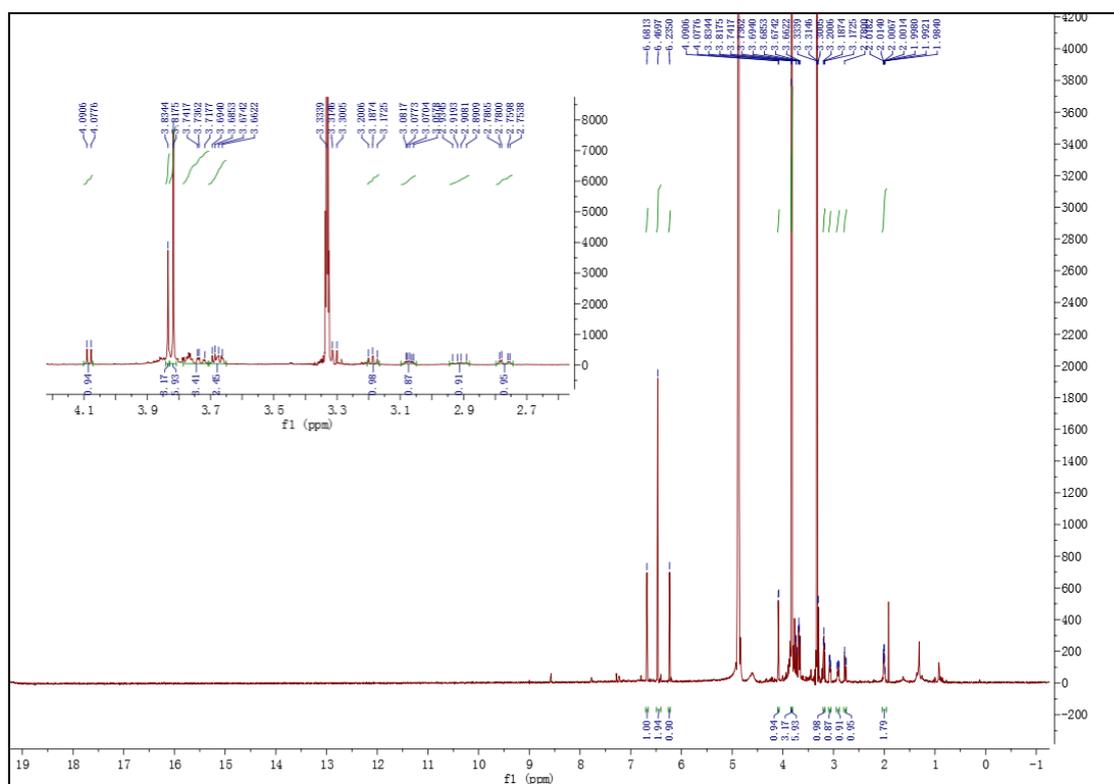
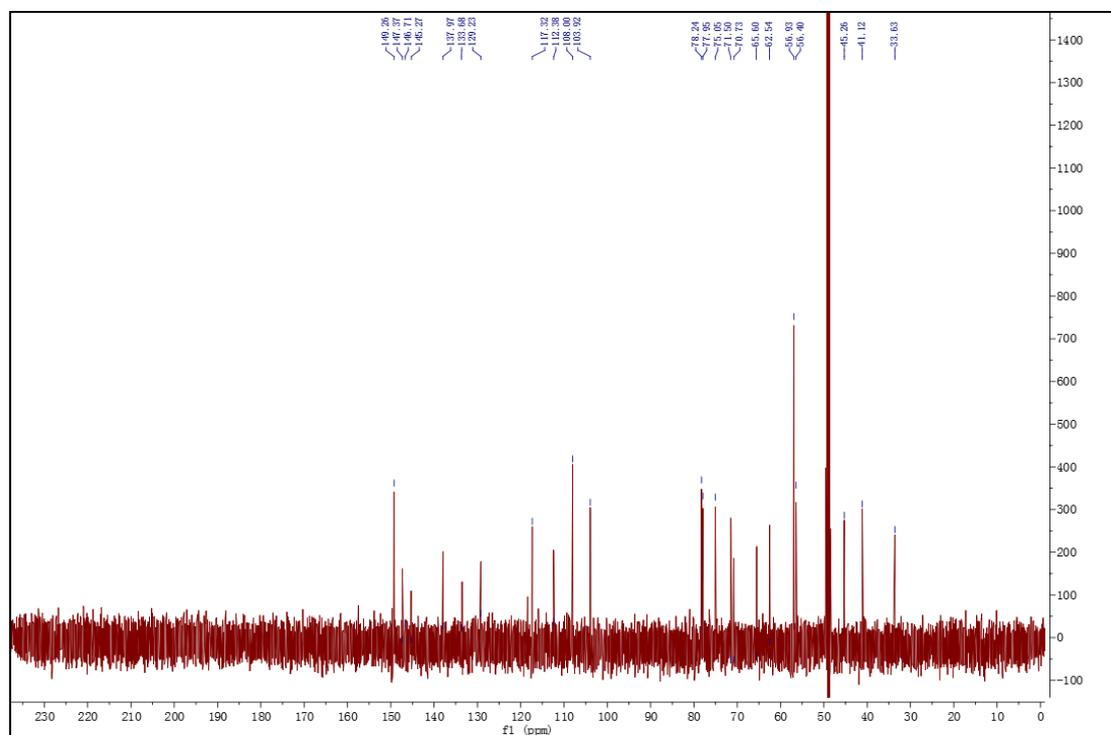
Figure 8a. $^1\text{H-NMR}$ spectrum (MeOD, 600 MHz) of compound **8**.**Figure 8b.** $^{13}\text{C-NMR}$ spectrum (MeOD, 150 MHz) of compound **8**.

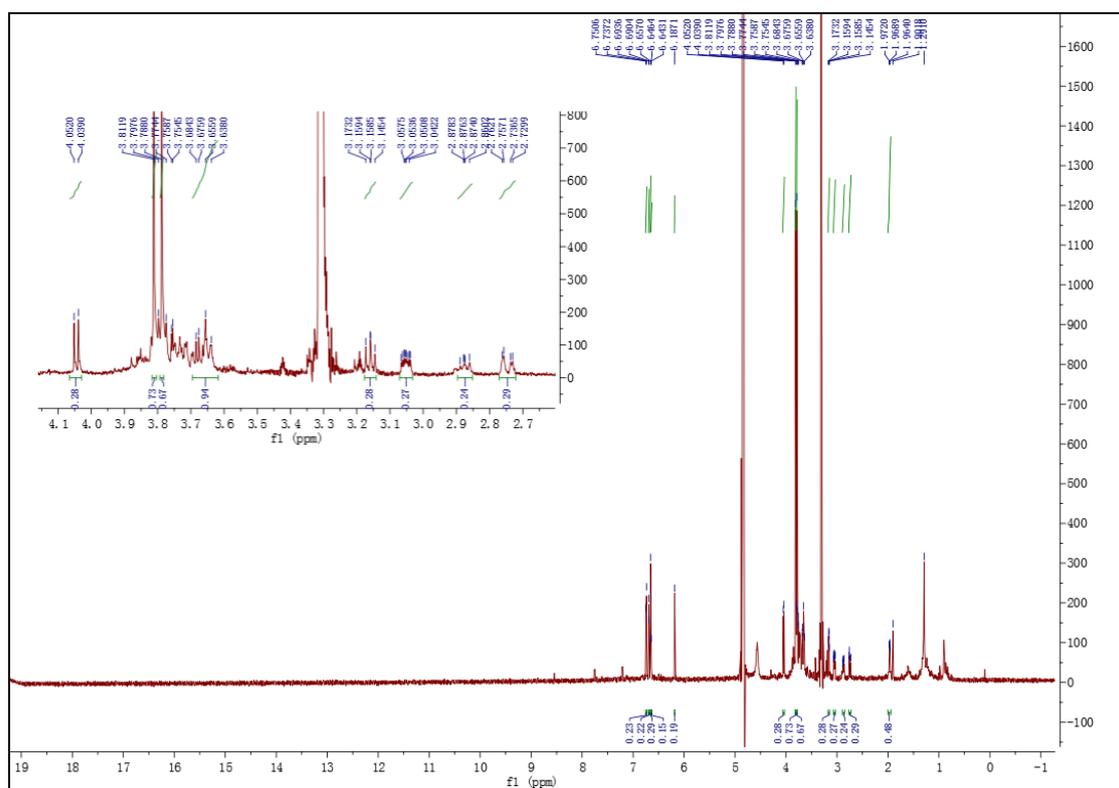
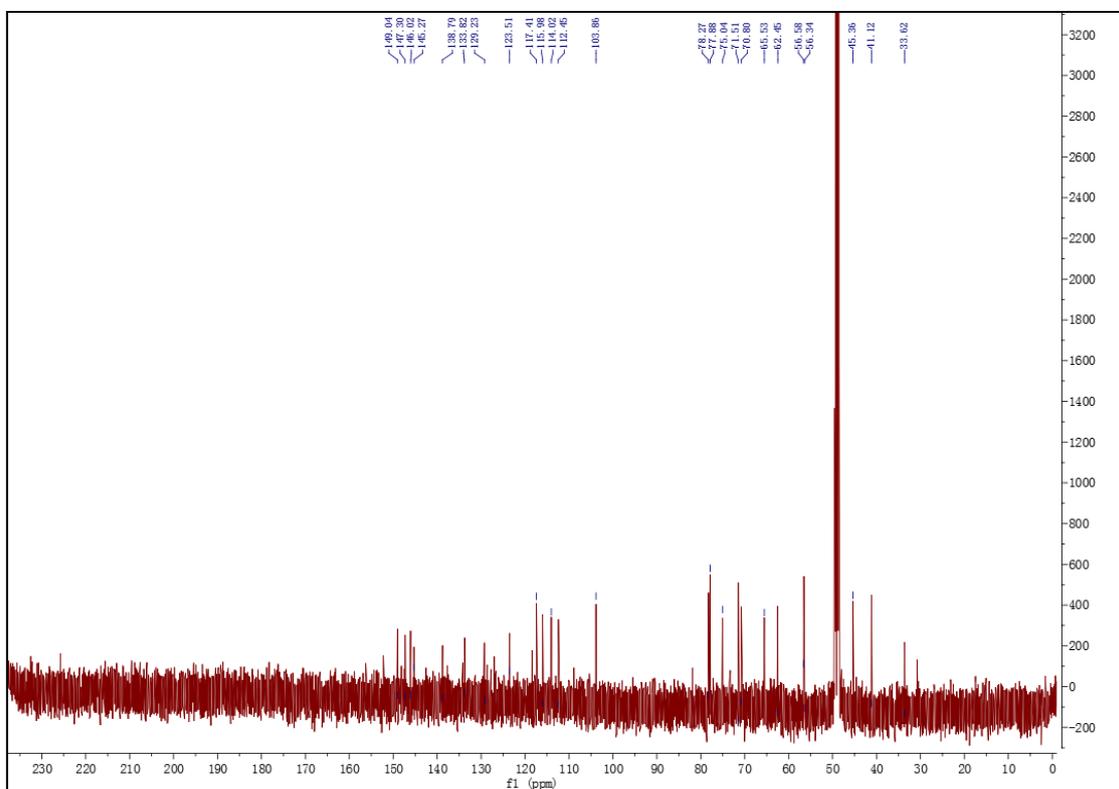
Figure 9a. $^1\text{H-NMR}$ spectrum (MeOD, 600 MHz) of compound **9**.**Figure 9b.** $^{13}\text{C-NMR}$ spectrum (MeOD, 150 MHz) of compound **9**.

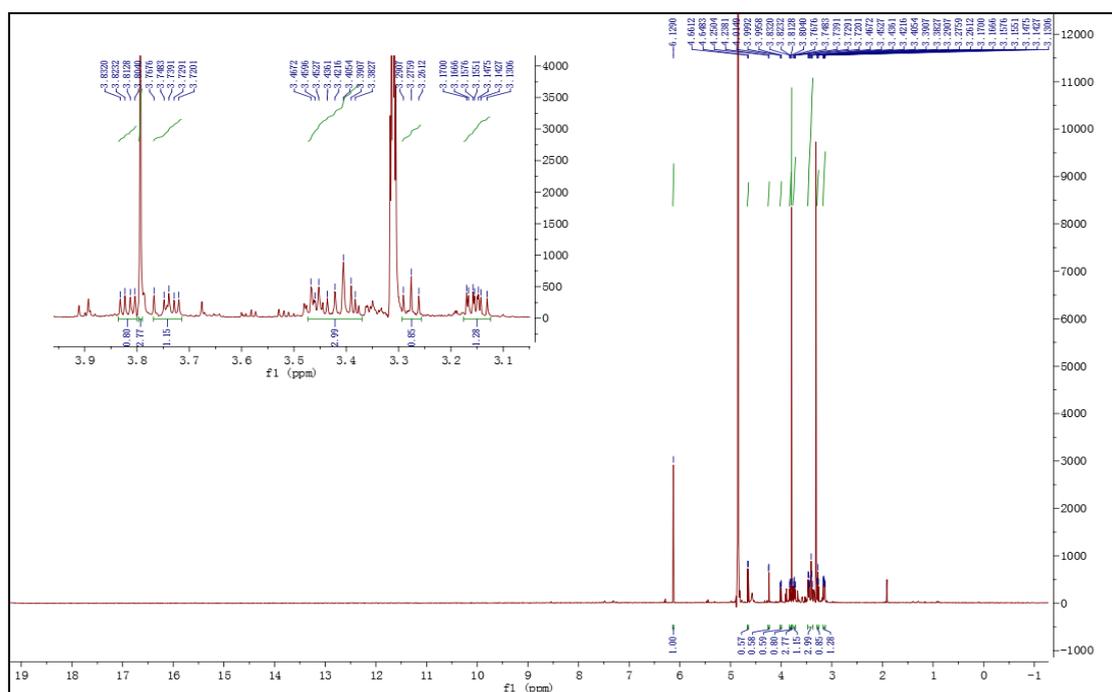
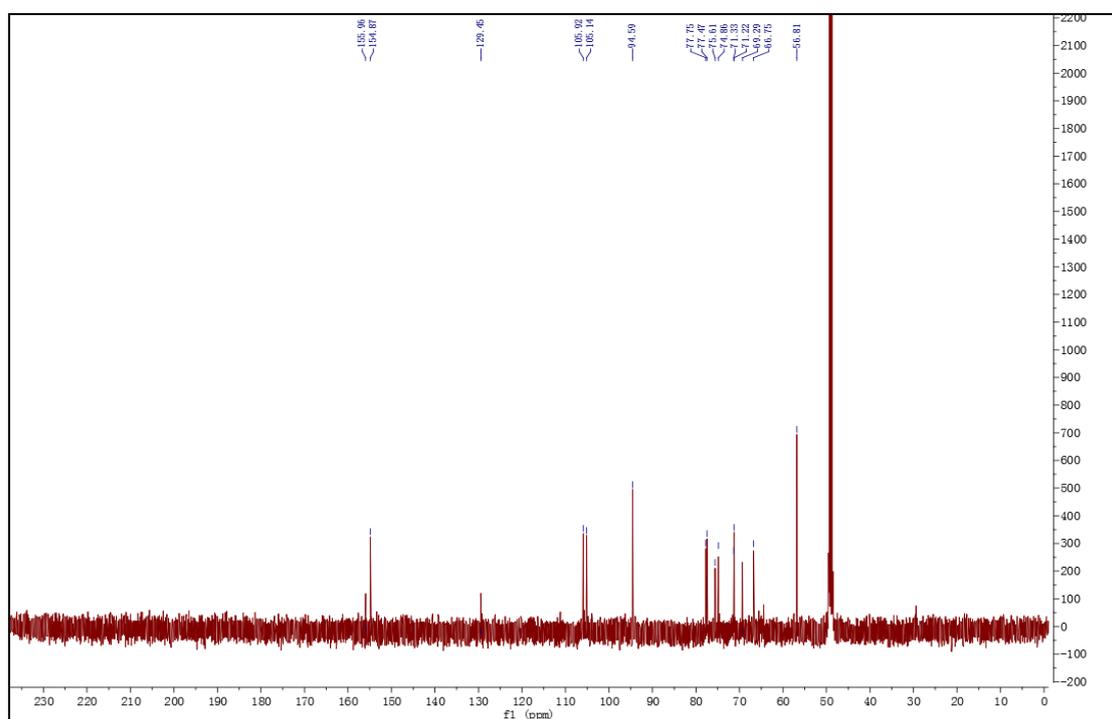
Figure 10a. ^1H -NMR spectrum (MeOD, 600 MHz) of compound **10**.**Figure 10b.** ^{13}C -NMR spectrum (MeOD, 150 MHz) of compound **10**.

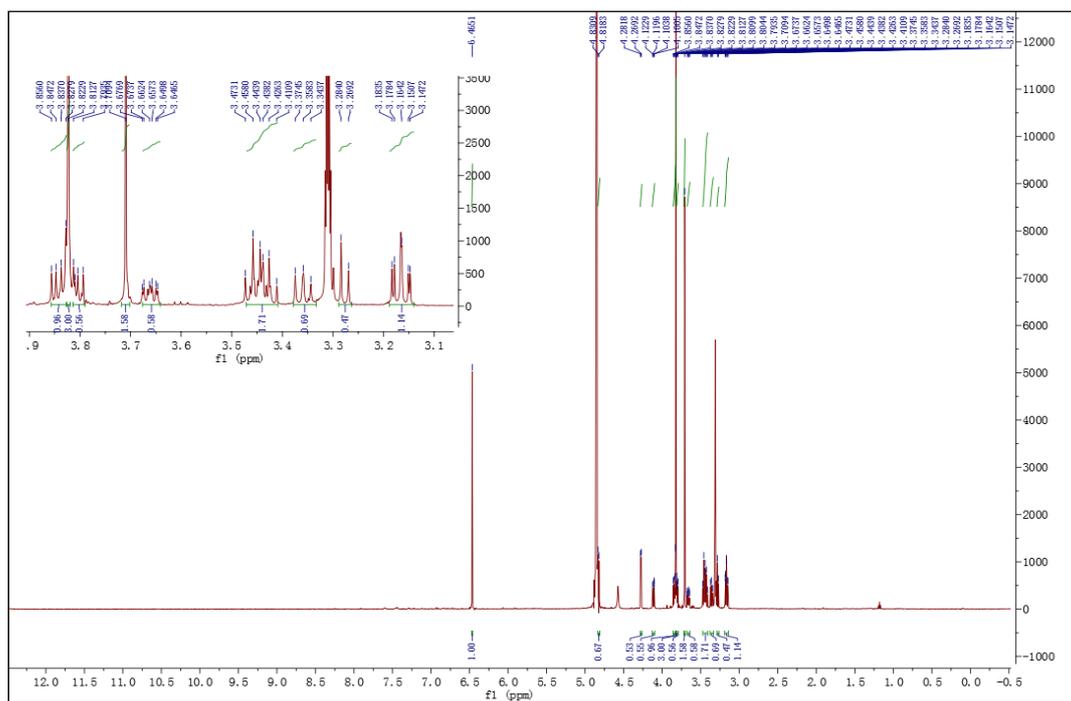
Figure 11a. ^1H -NMR spectrum (MeOD, 600 MHz) of compound **11**.

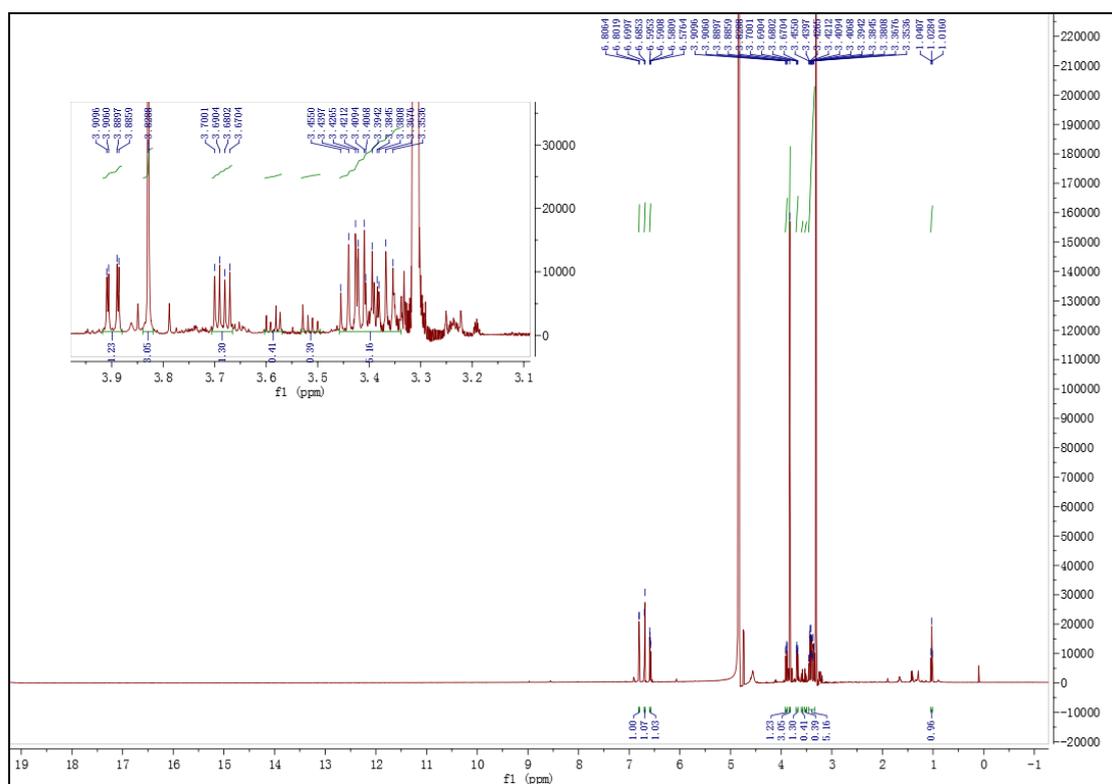
Figure 12a. ^1H -NMR spectrum (MeOD, 600 MHz) of compound **12**.

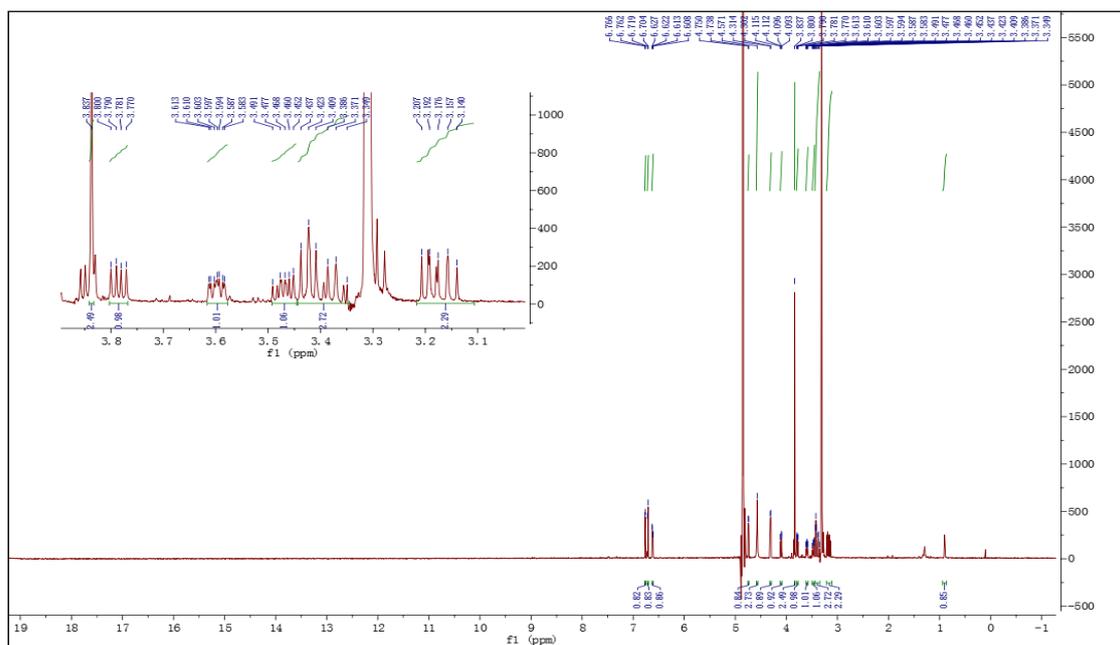
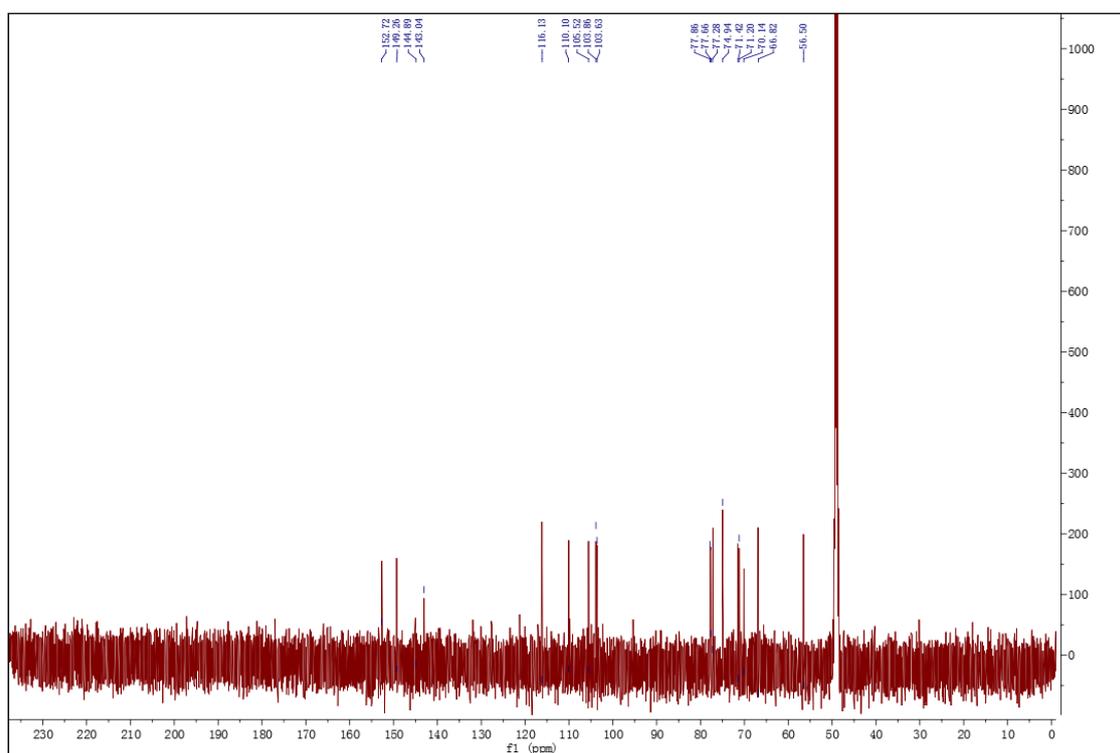
Figure 14a. $^1\text{H-NMR}$ spectrum (MeOD, 600 MHz) of compound 14.**Figure 14b.** $^{13}\text{C-NMR}$ spectrum (MeOD, 150 MHz) of compound 14.

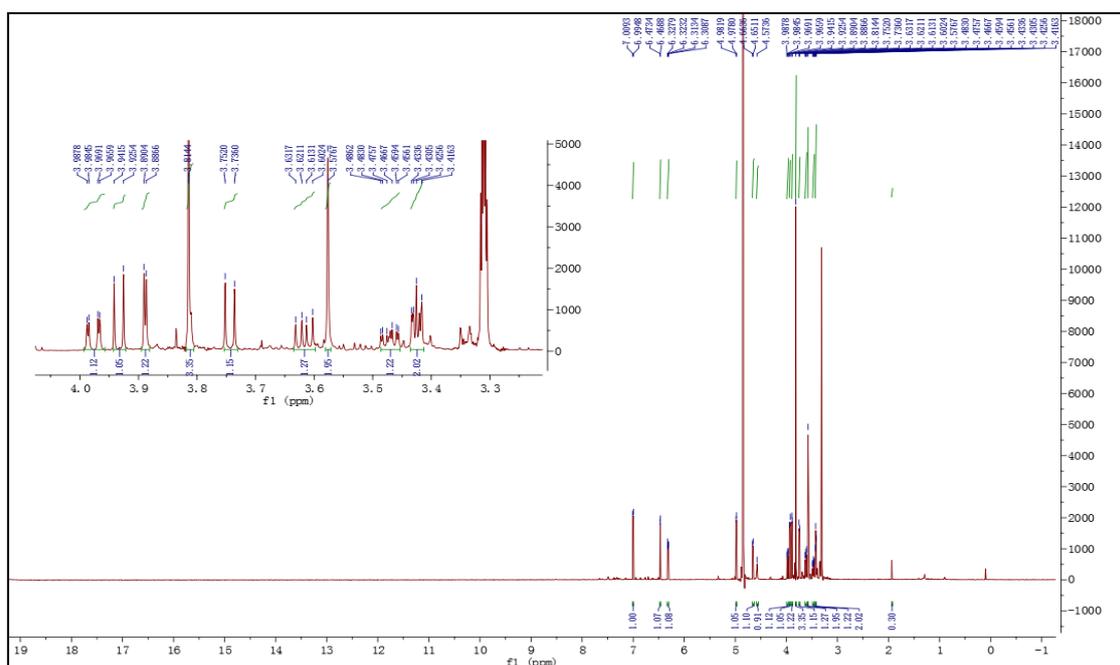
Figure 15a. $^1\text{H-NMR}$ spectrum (MeOD, 600 MHz) of compound **15**.

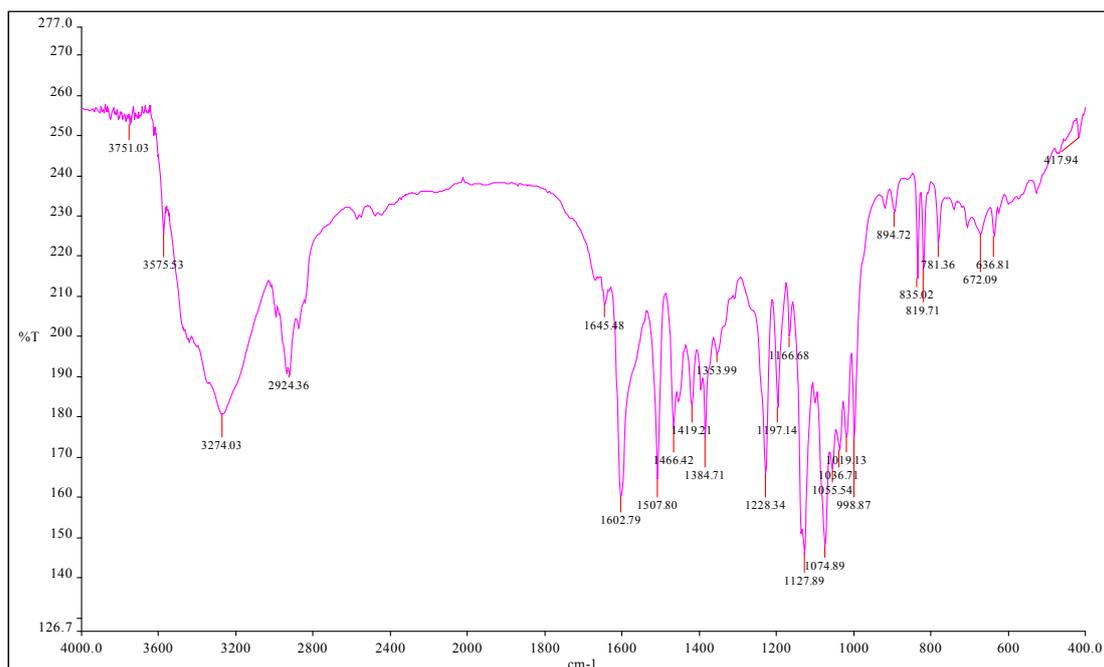
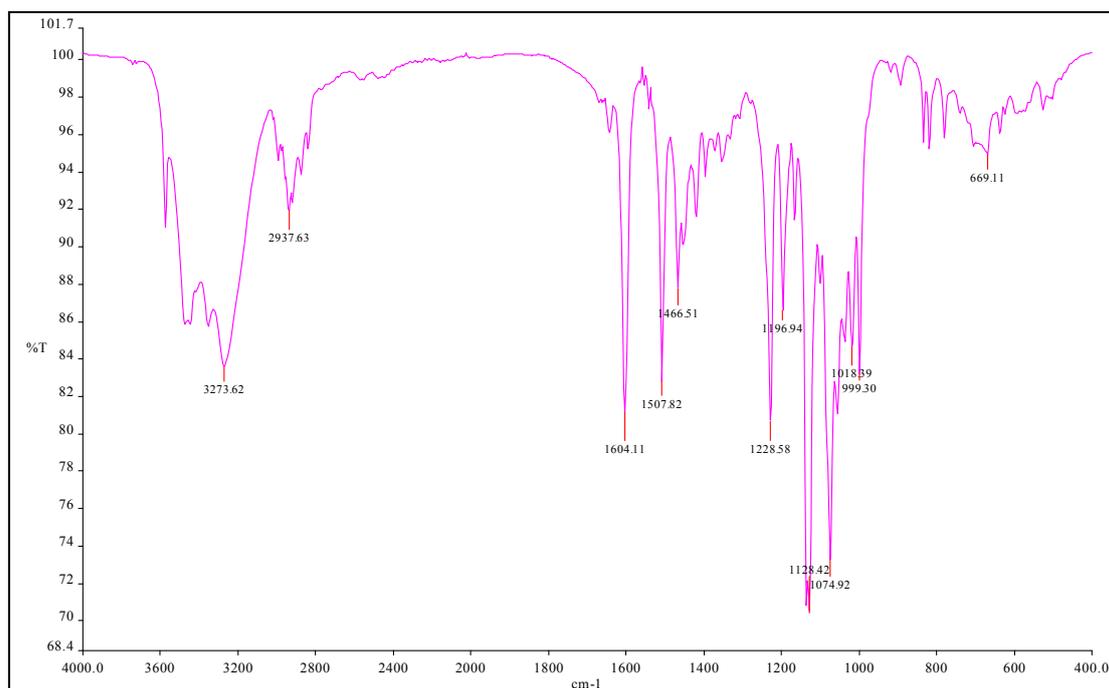
Figure 16. FTIR spectrum (KBr) of compound 1.**Figure 17.** FTIR spectrum (KBr) of compound 2.

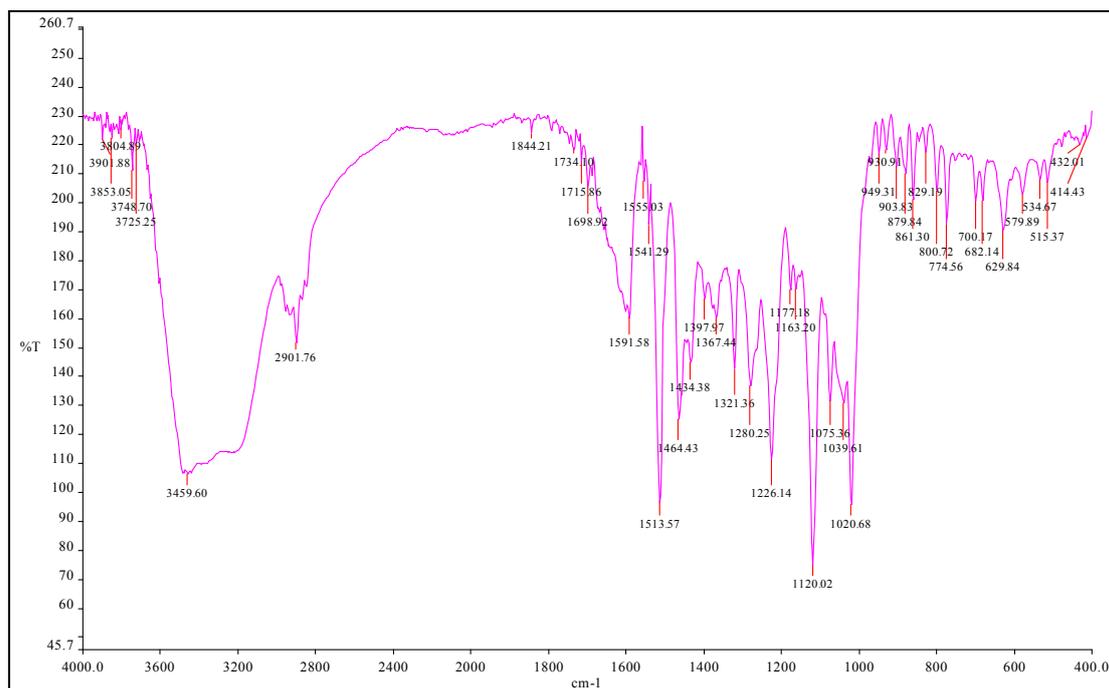
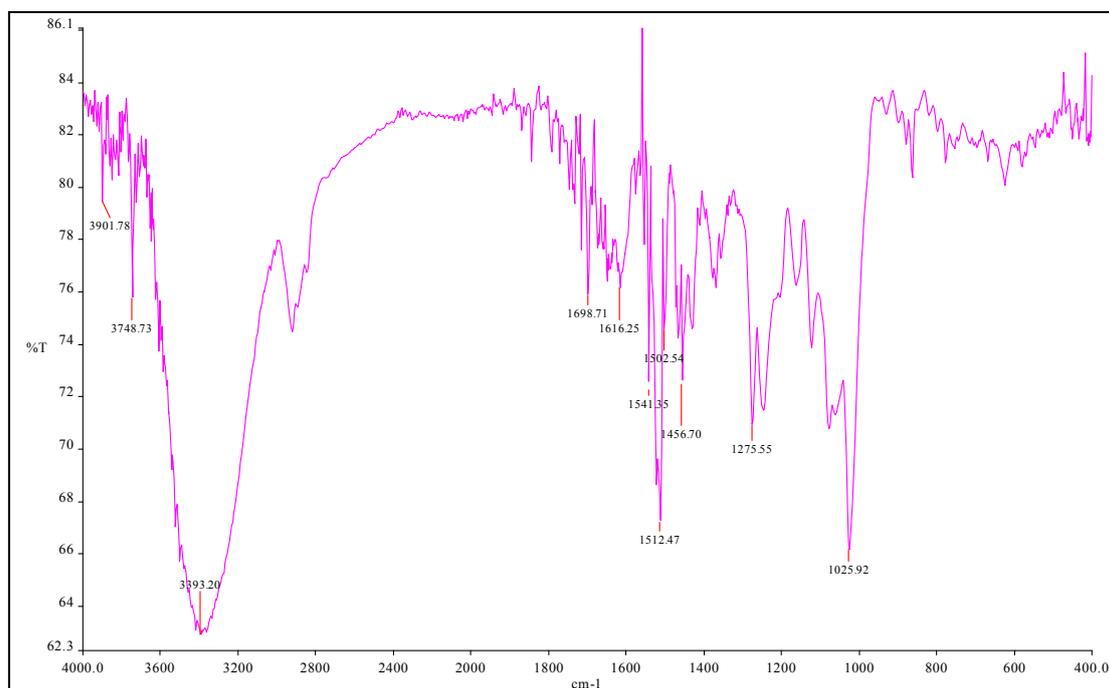
Figure 18. FTIR spectrum (KBr) of compound 3.**Figure 19.** FTIR spectrum (KBr) of compound 4.

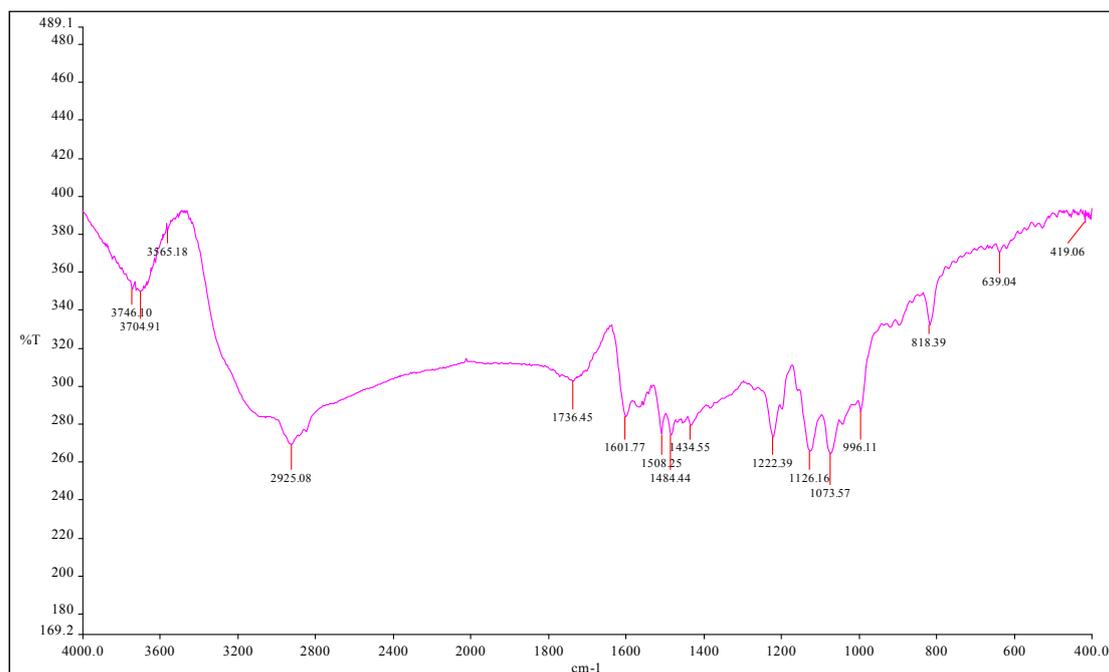
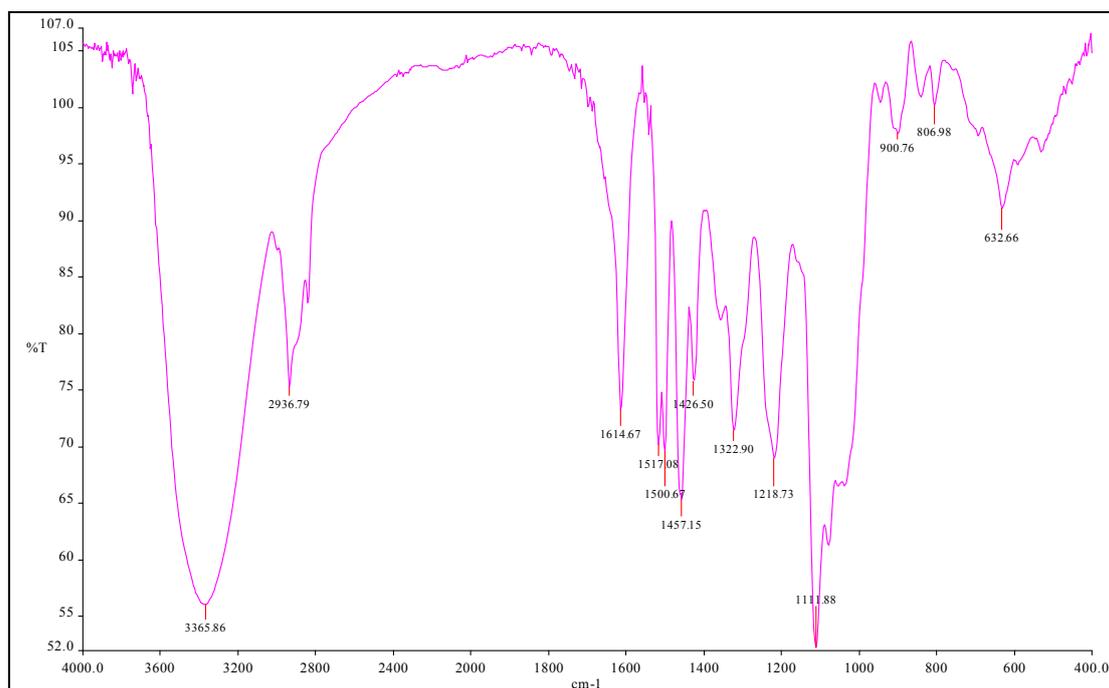
Figure 20. FTIR spectrum (KBr) of compound 5.**Figure 21.** FTIR spectrum (KBr) of compound 6.

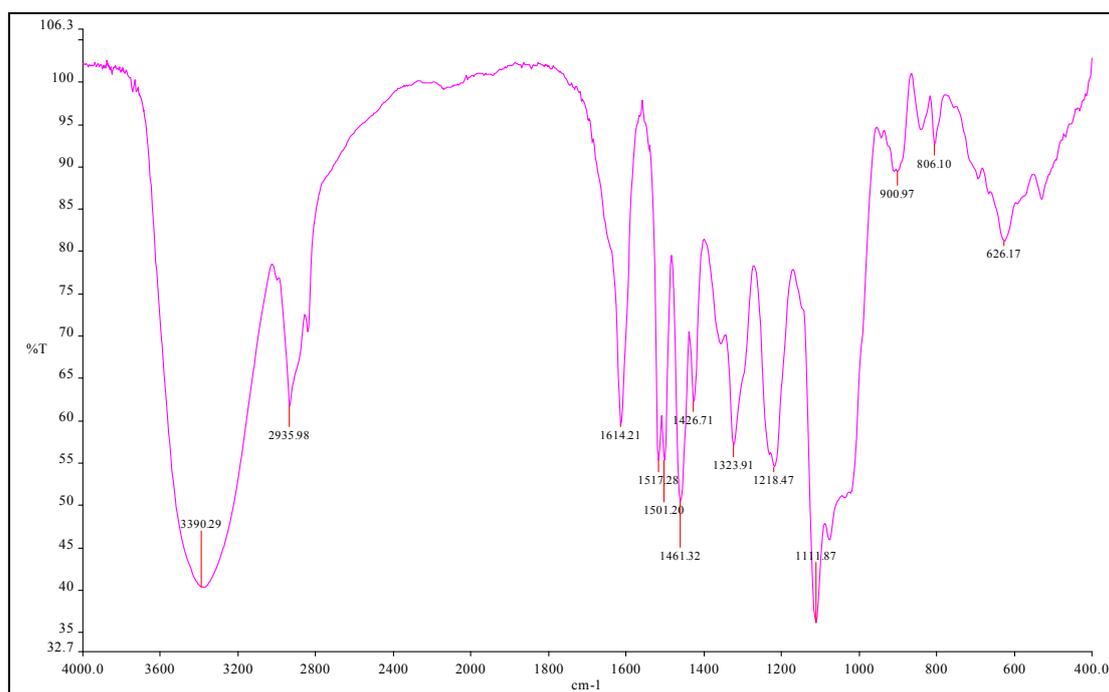
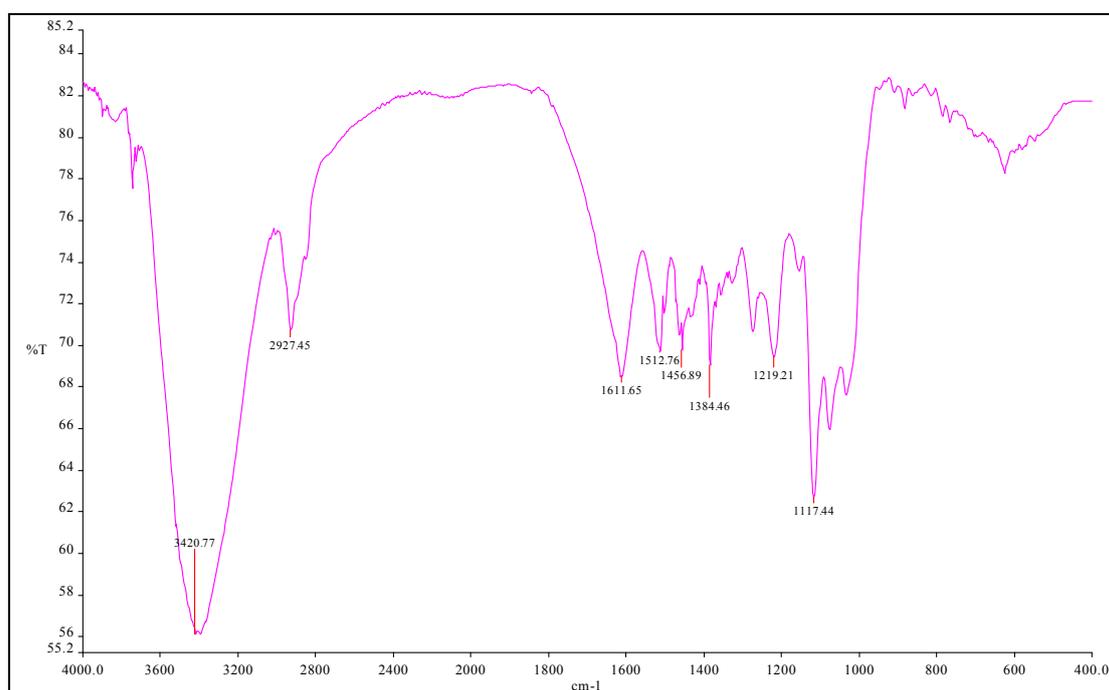
Figure 22. FTIR spectrum (KBr) of compound 7.**Figure 23.** FTIR spectrum (KBr) of compound 8.

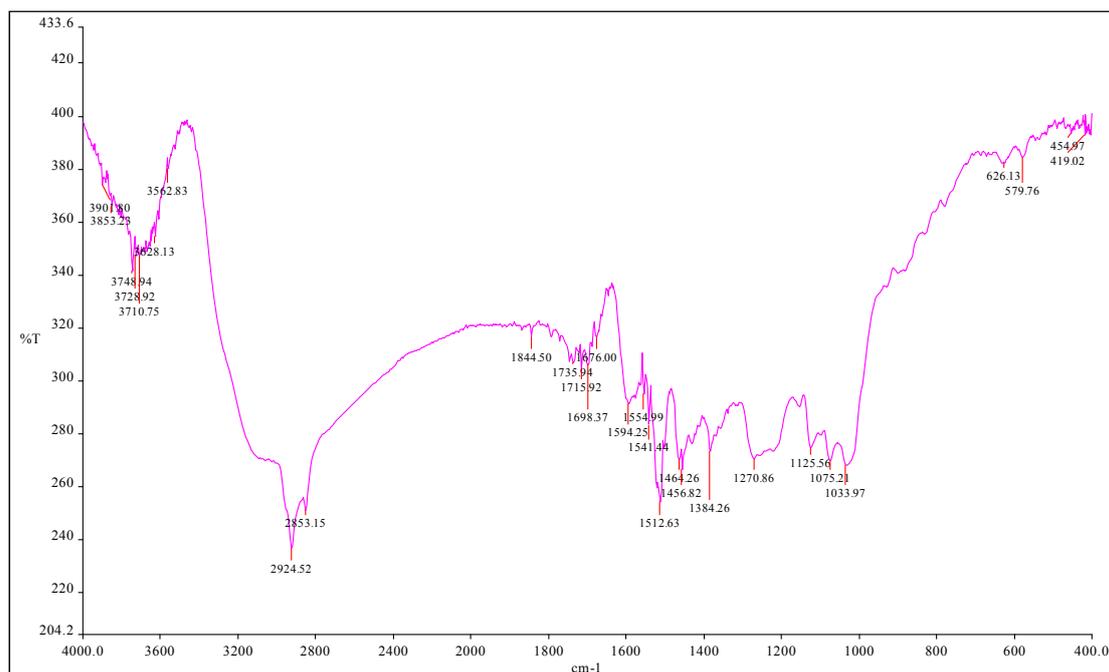
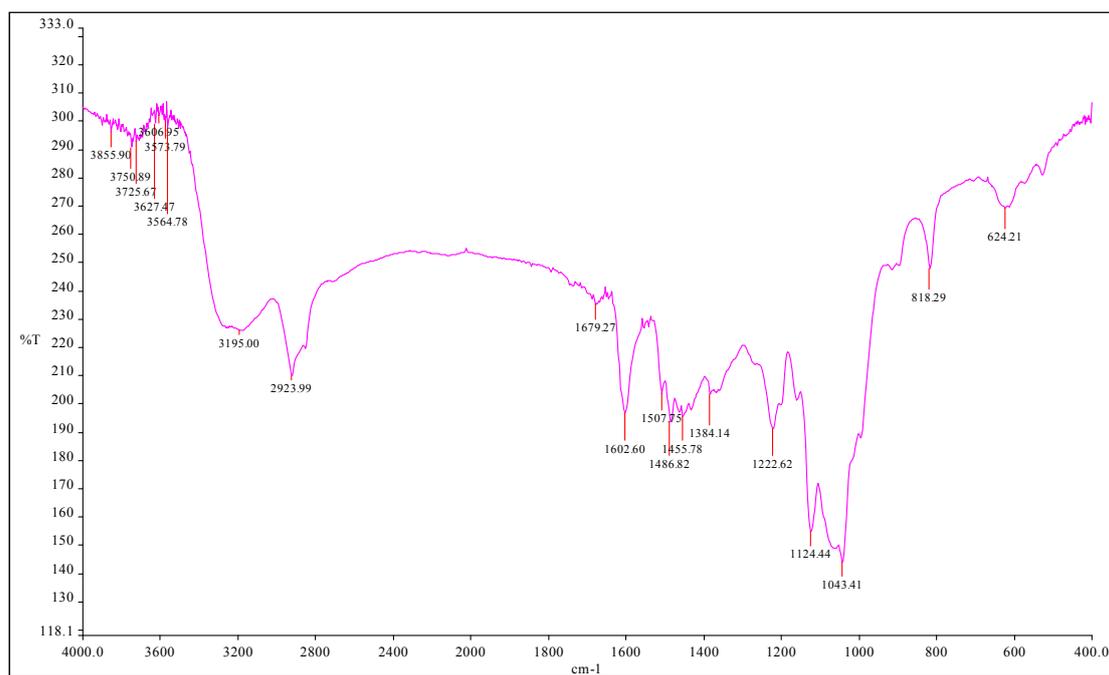
Figure 24. FTIR spectrum (KBr) of compound **9**.**Figure 25.** FTIR spectrum (KBr) of compound **10**.

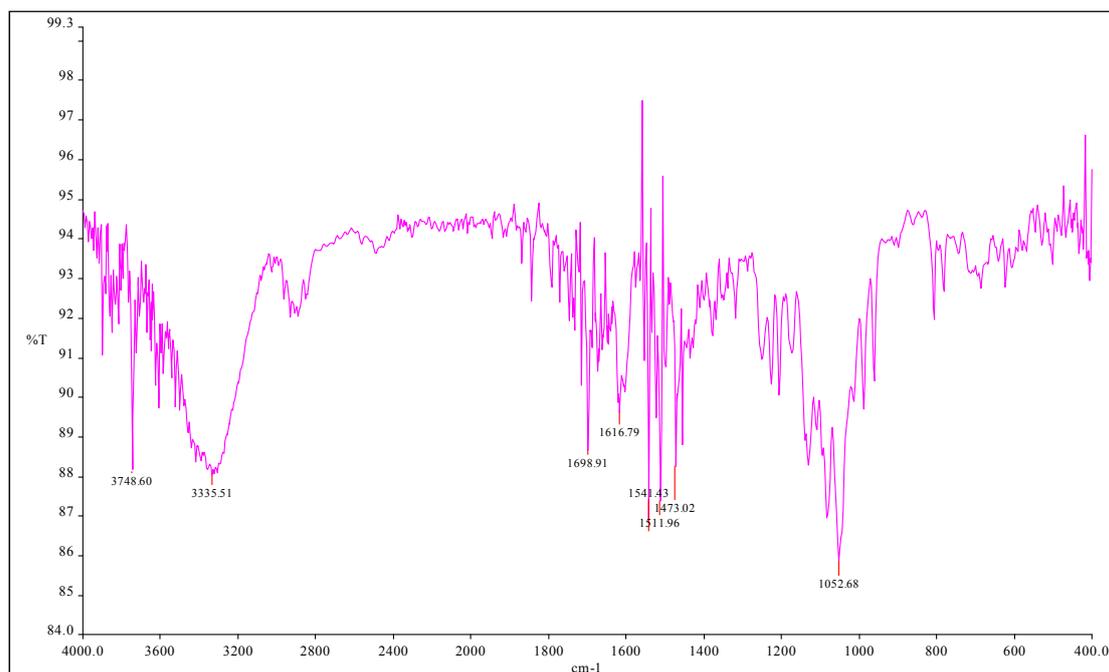
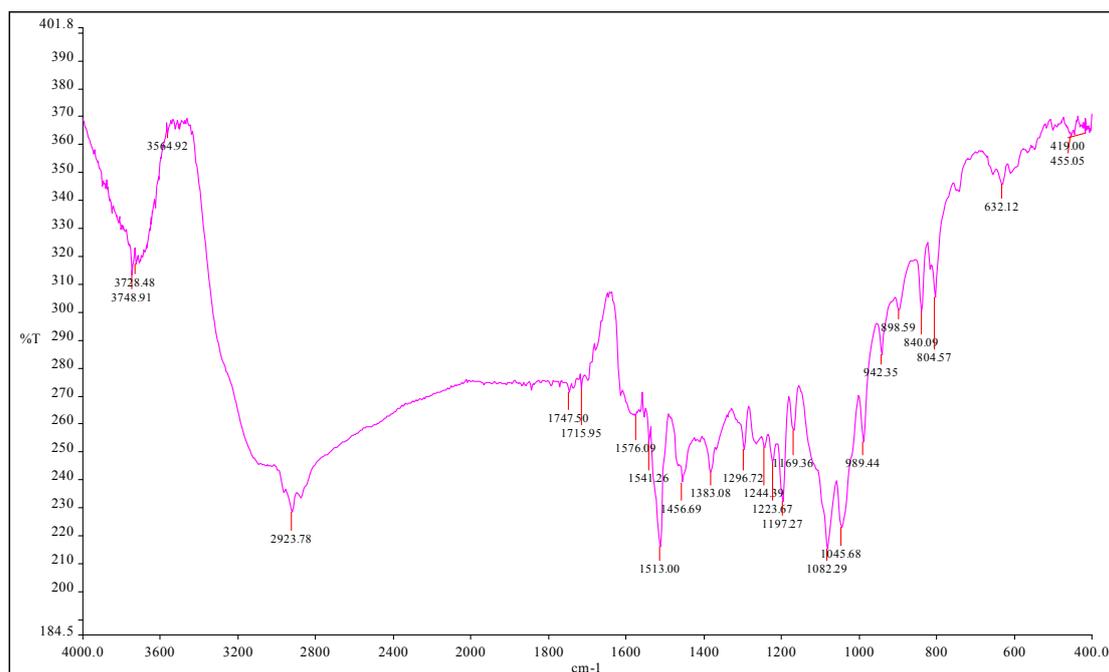
Figure 26. FTIR spectrum (KBr) of compound **11**.**Figure 27.** FTIR spectrum (KBr) of compound **12**.

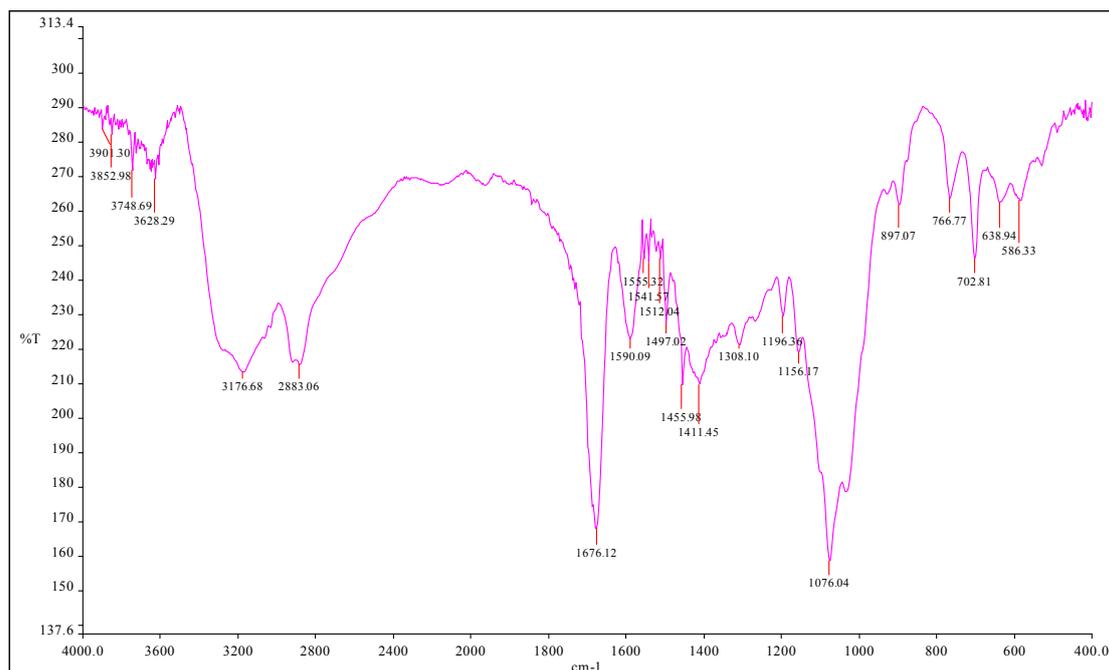
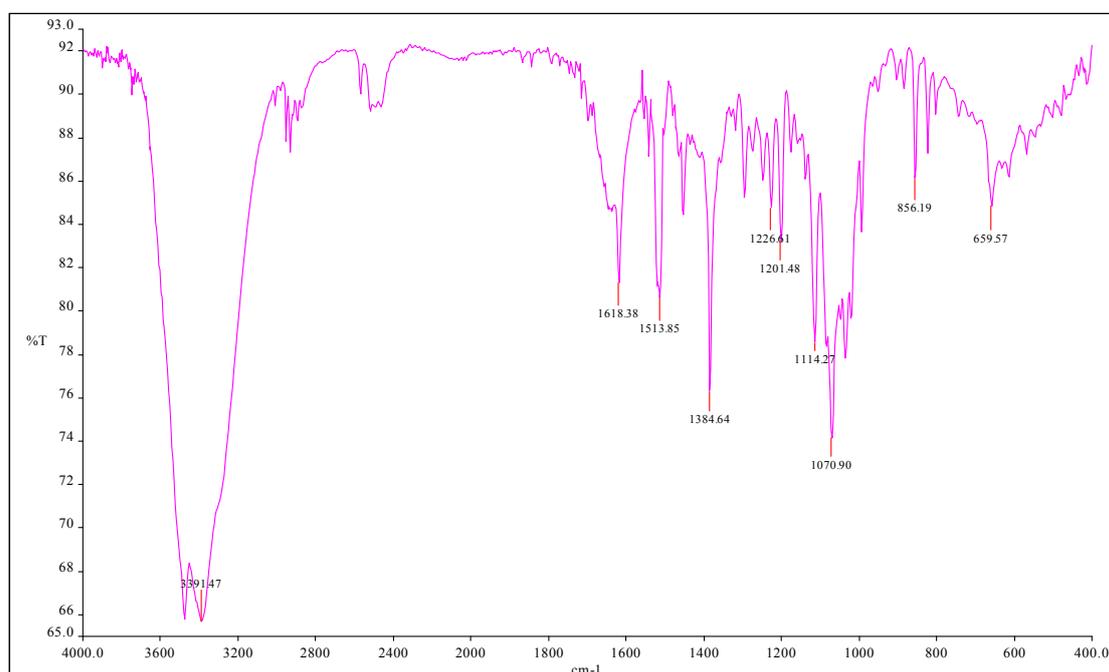
Figure 28. FTIR spectrum (KBr) of compound **13**.**Figure 29.** FTIR spectrum (KBr) of compound **14**.

Figure 30. FTIR spectrum (KBr) of compound **15**.