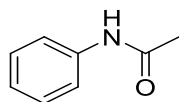


Supplementary Materials: Lipase-Mediated Amidation of Anilines with 1,3-Diketones via C–C Bond Cleavage

Liu Zhang, Fengxi Li, Chunyu Wang, Lu Zheng, Zhi Wang, Rui Zhao and Lei Wang

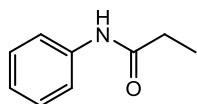
1. Data of Products

3aa



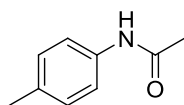
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.53 (d, 1H), 7.33-7.26 (m, 3H), 7.10-7.05 (m, 1H), 2.17 (s, 3H);

3ab



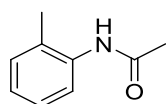
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.53 (d, 2H), 7.42 (brs, 1H), 7.31 (t, 2H), 7.07 (t, 1H), 2.36 (q, 2H), 1.25 (t, 3H);

3ba



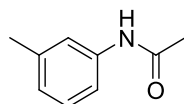
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.39(d,2H), 7.22 (brs,1H), 7.14 (d,2H), 2.34(s,3H), 2.19(s,3H);

3ca



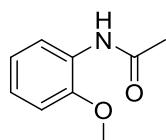
Yellow solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.76 (d, 1H), 7.21 (m, 2H), 7.10 (m, 1H), 7.06 (brs, 1H), 2.28 (s, 3H), 2.22 (s, 3H);

3da

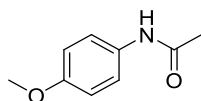


White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.37 (s, 1H), 7.24-7.20 (m, 2H), 7.12-7.10 (brs, 1H), 6.97-6.94 (m, 1H), 2.36 (s, 3H), 2.19 (s, 3H);

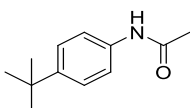
3ea



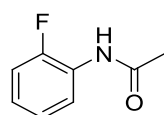
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 8.39-8.37(m, 1H), 7.78 (brs, 1H), 7.07-7.04 (m, 1H), 6.99-6.97 (m, 1H), 6.90 (d, 1H), 3.90 (s, 3H), 2.23 (s, 3H);

3fa

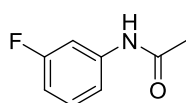
White solid; $^1\text{H-NMR}$ (500MHz, CDCl_3) δ : 7.59 (brs, 1H), 7.39 (d, 2H), 6.89 (d, 2H), 3.77 (s, 3H), 2.14 (s, 3H);

3ga

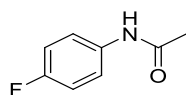
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.43 (d, 2H), 7.35 (d, 2H), 2.18 (s, 3H), 1.32 (s, 9H);

3ha

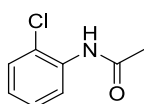
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 8.32 (t, 1H), 7.40 (brs, 1H), 7.15-7.05 (m, 3H), 2.25 (s, 3H);

3ia

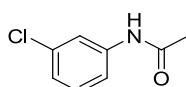
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.73 (brs, 1H), 7.55-7.54 (m, 1H), 7.51-7.49 (m, 1H), 7.15-7.14 (m, 1H), 6.82 (s, 1H), 2.21 (s, 3H);

3ja

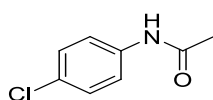
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.55 (brs, 1H), 7.47-7.45 (m, 2H), 7.01 (m, 2H), 2.17 (s, 3H);

3ka

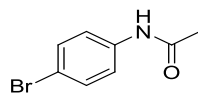
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 8.33-8.31 (m, 1H), 7.40 (brs, 1H), 7.16-7.06 (m, 3H), 2.23 (s, 3H);

3la

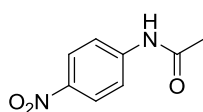
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.65 (brs, 1H), 7.36 (d, 1H), 7.27-7.24 (m, 1H), 7.22 (t, 1H), 7.11 (d, 1H), 2.20 (s, 3H);

3ma

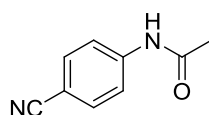
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.48-7.46 (m, 3H), 7.30-7.28 (m, 2H), 2.19 (s, 3H);

3na

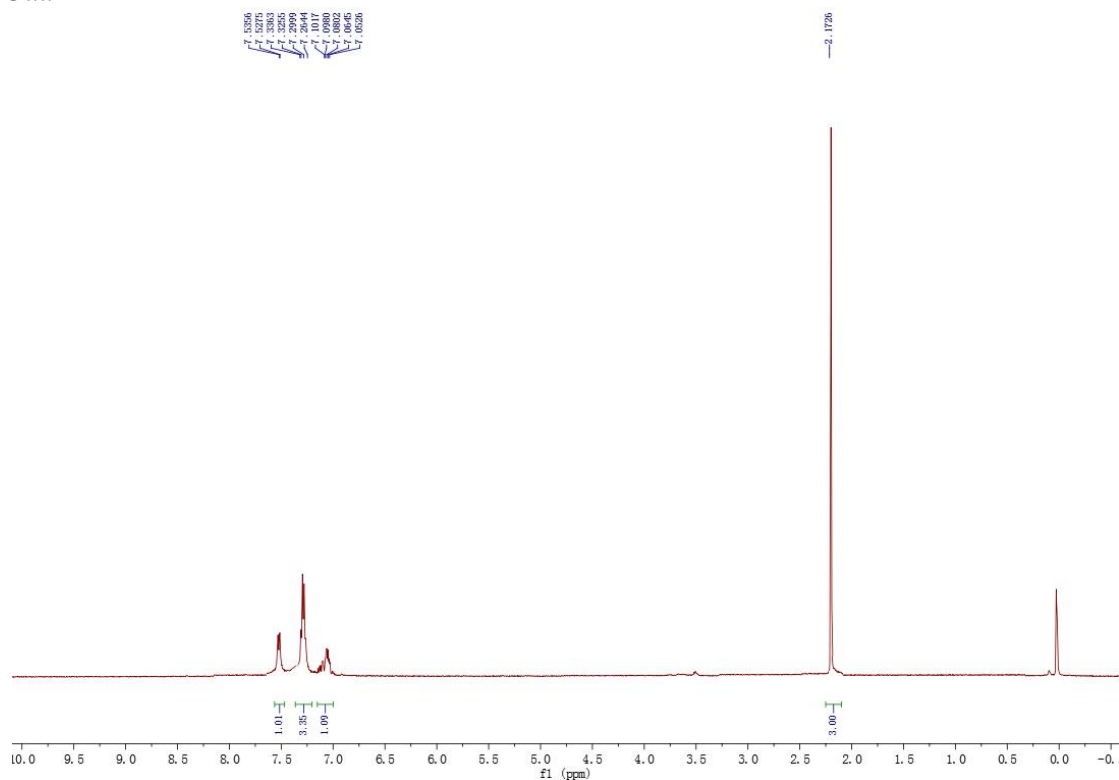
White solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 7.59 (brs, 1H), 7.49-7.38 (m, 4H), 2.19 (s, 3H);

3oa

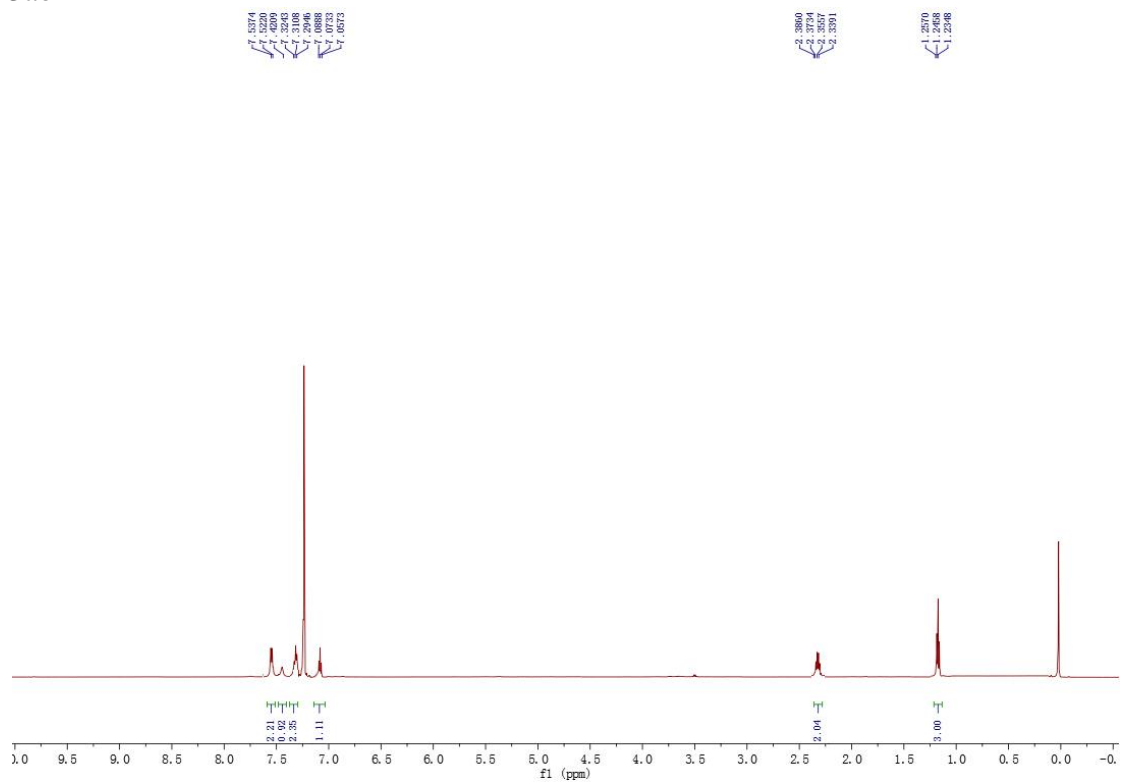
Yellow solid; $^1\text{H-NMR}$ (500 MHz, CDCl_3) δ : 8.24 (d, 2H), 7.73 (d, 2H), 7.59 (brs, 1H), 2.25 (s, 3H);

3pa

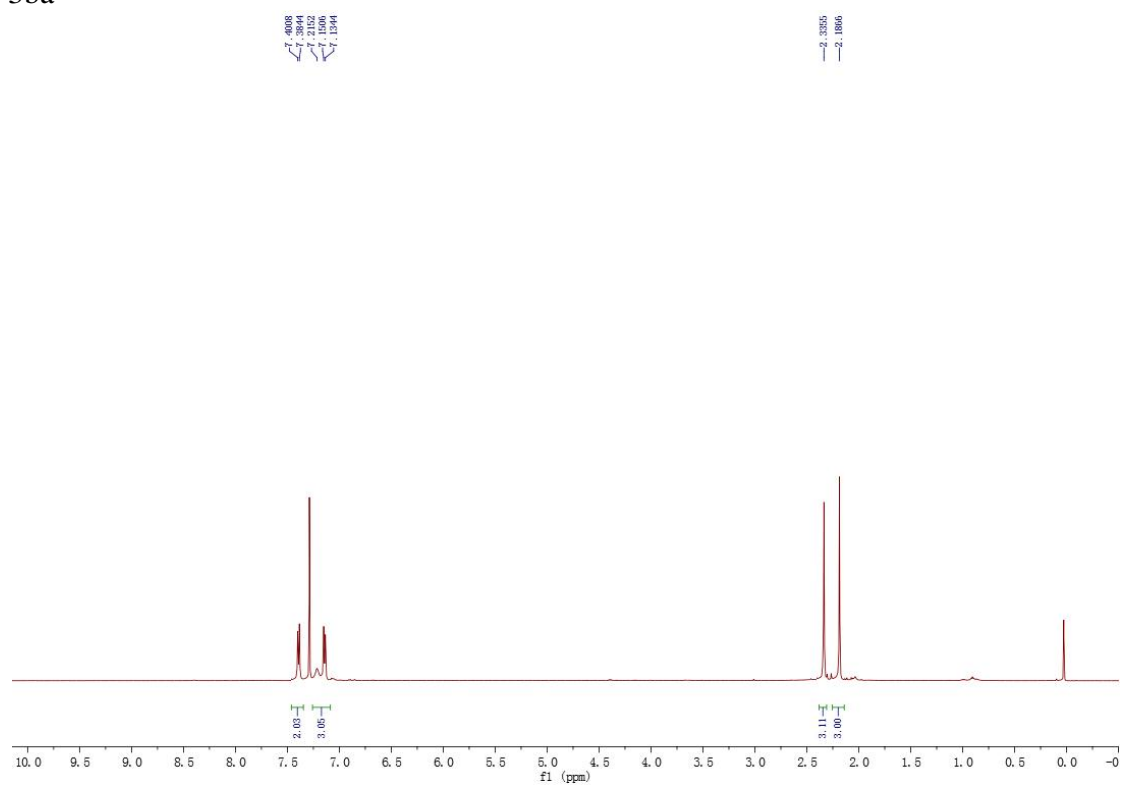
White solid; $^1\text{H-NMR}$ (500 MHz, DMSO-d_6) δ : 9.50 (s, 1H), 7.74 (m, 4H), 2.09 (s, 3H).

2. Copies of ^1H NMR Spectra**3aa**

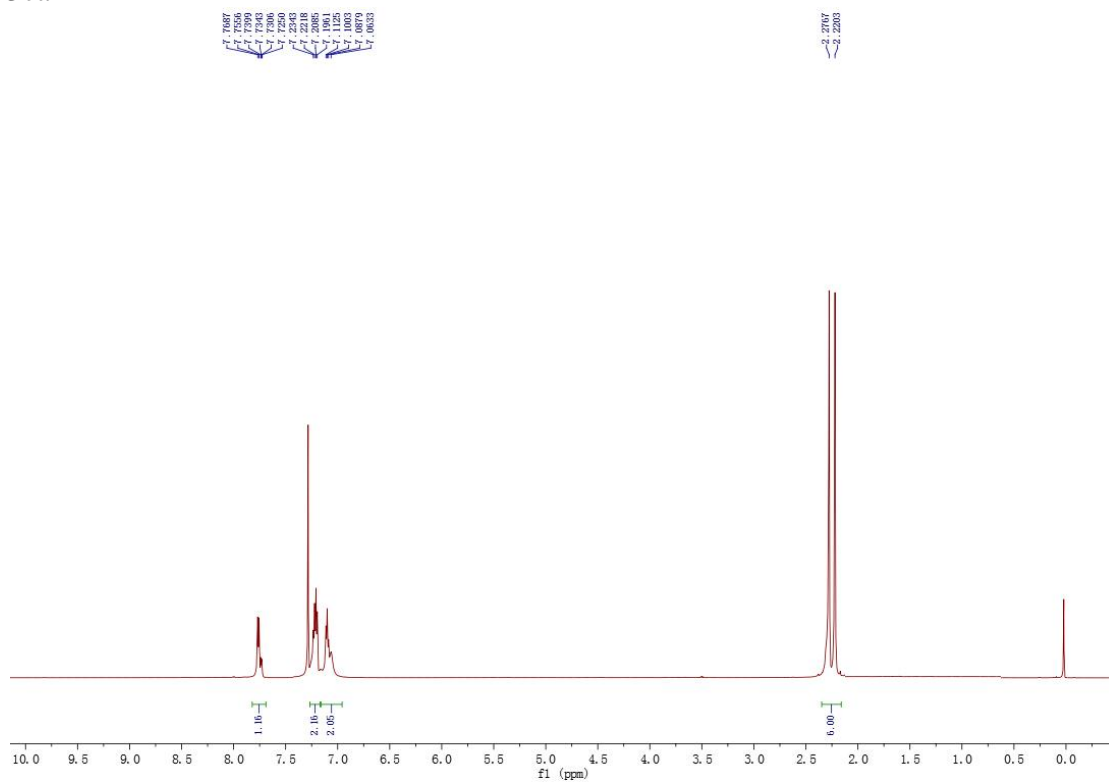
3ab



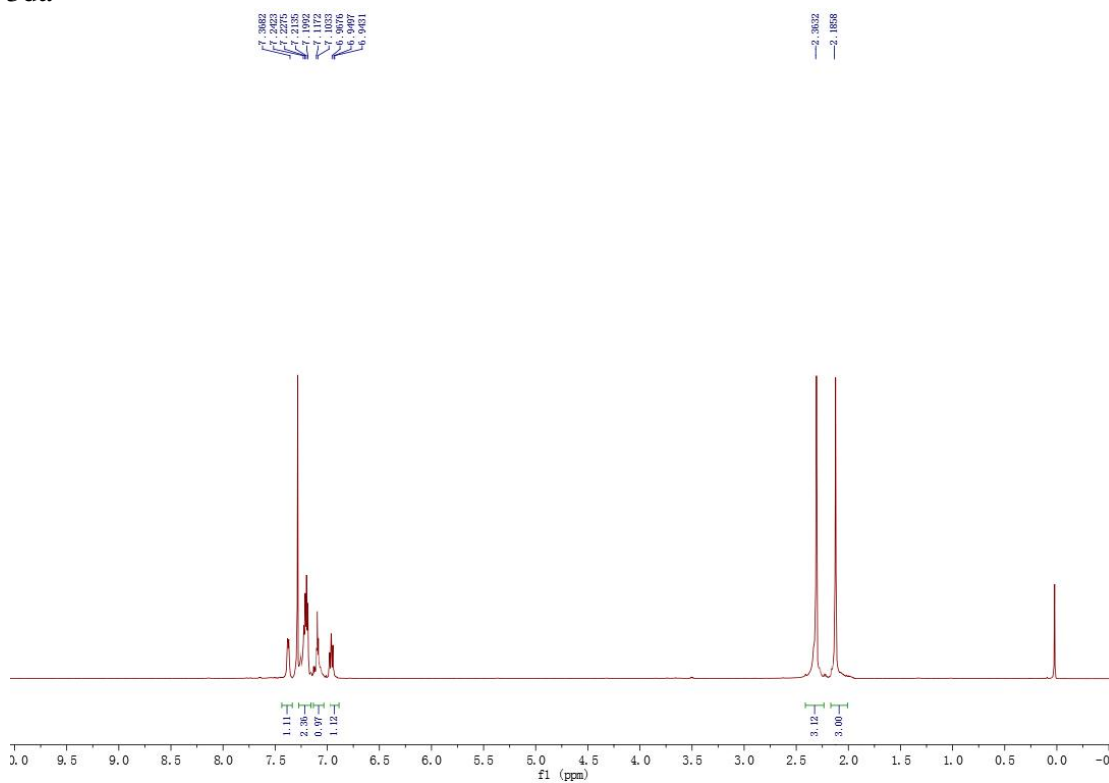
3ba



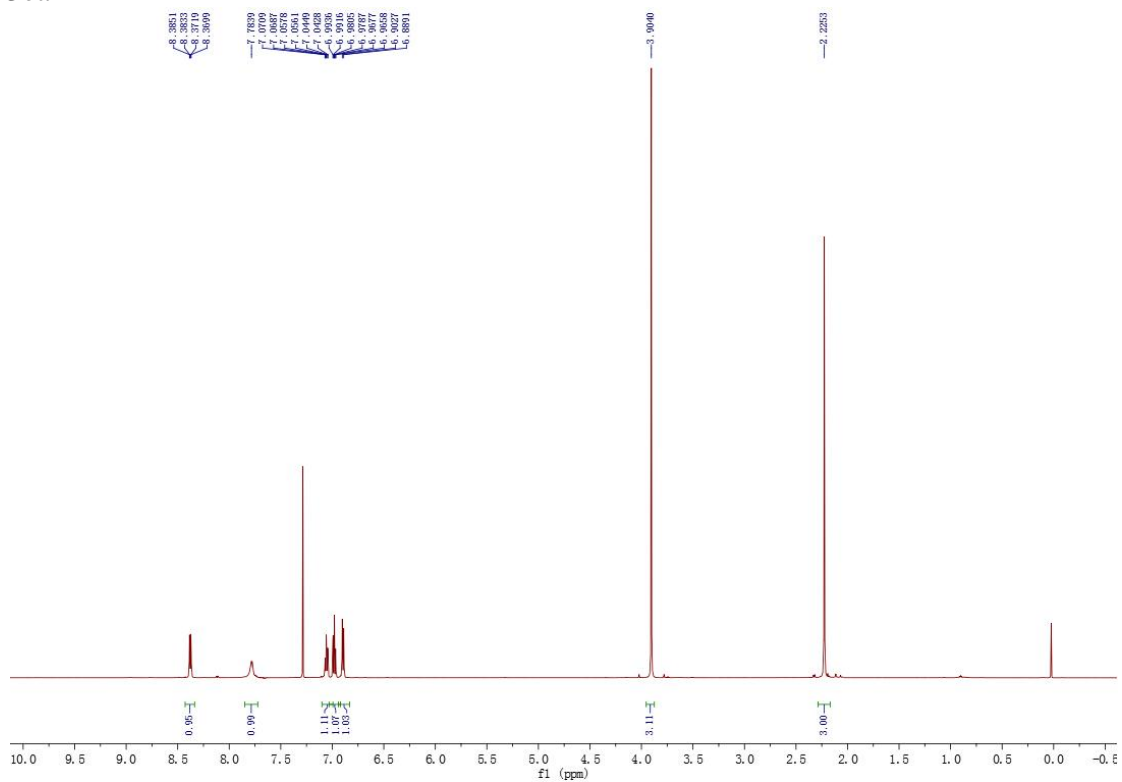
3ca



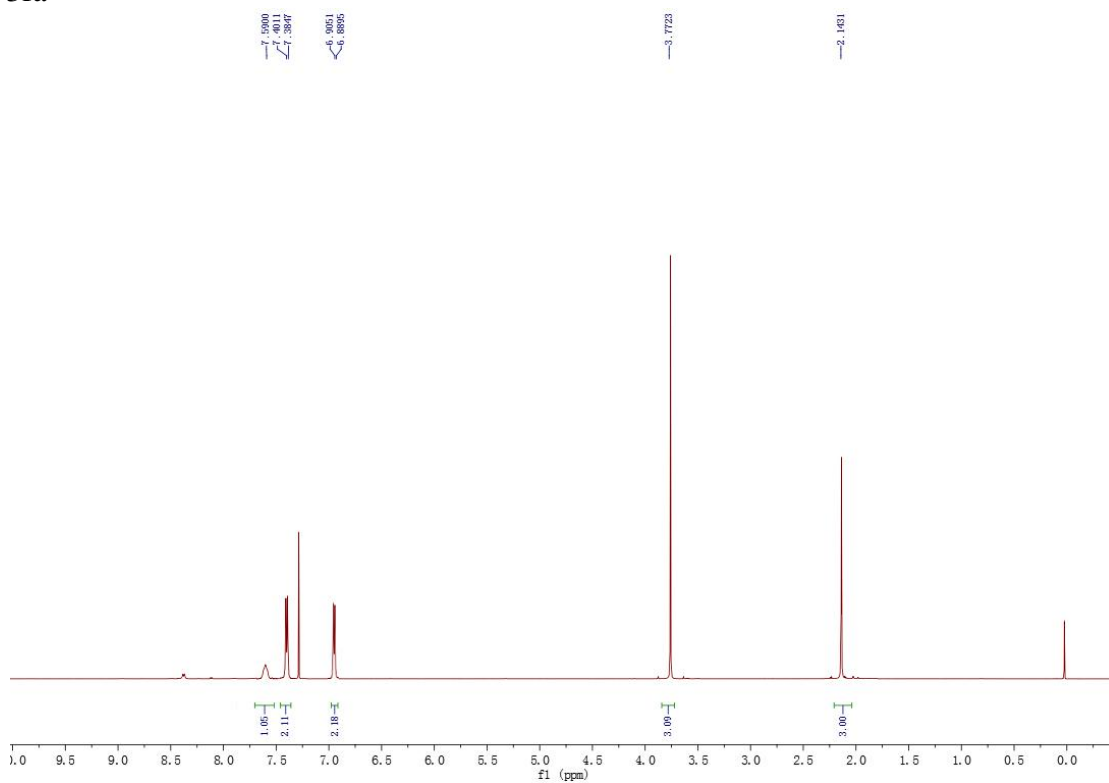
3da



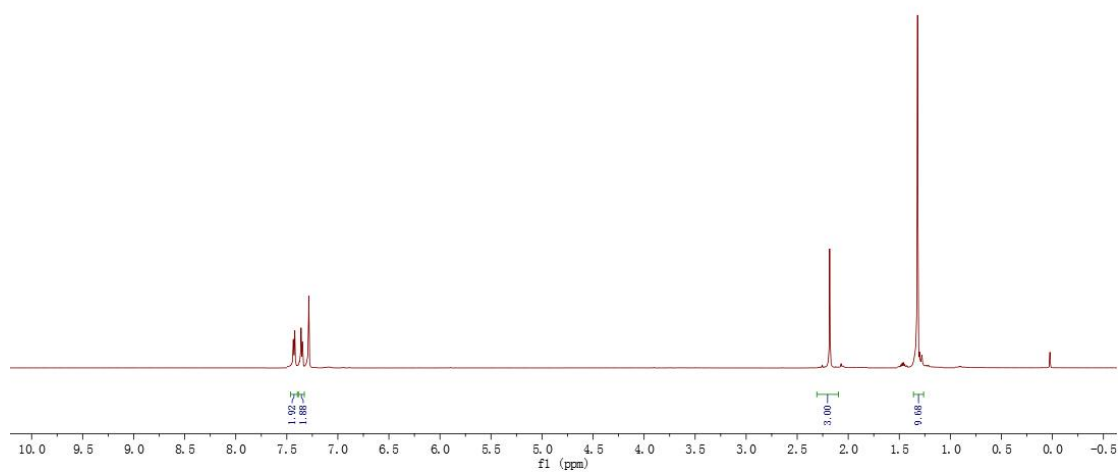
3ea



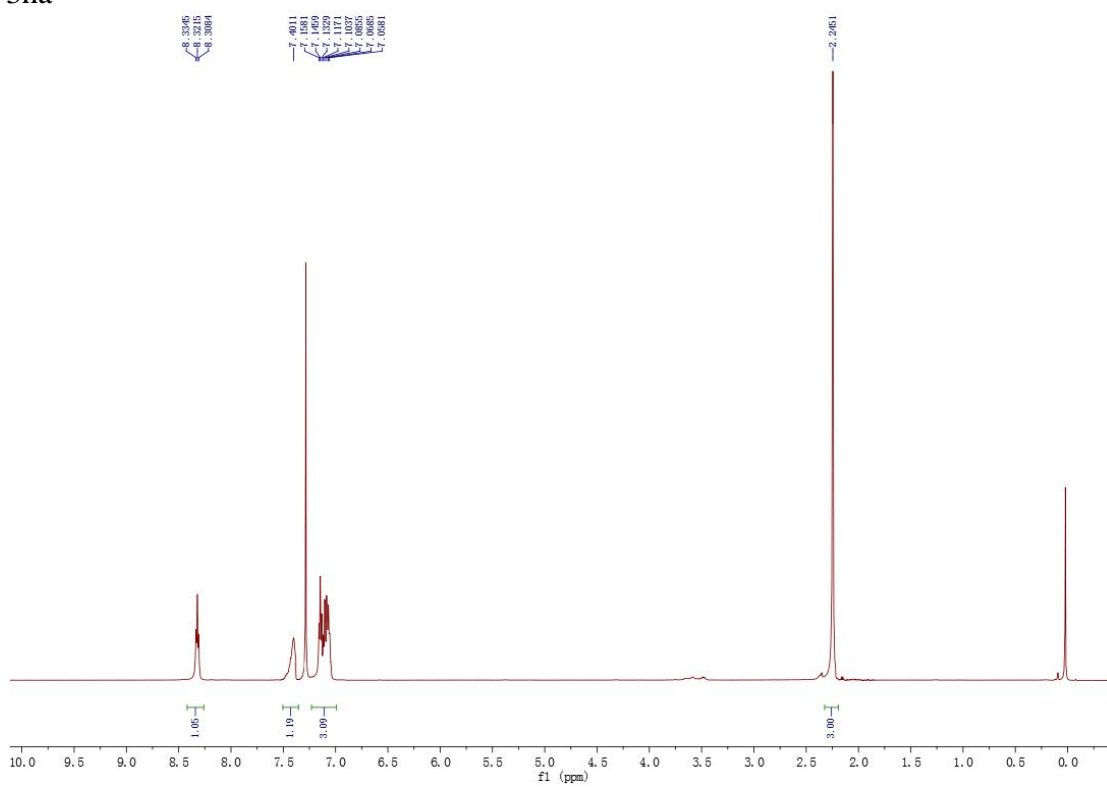
3fa



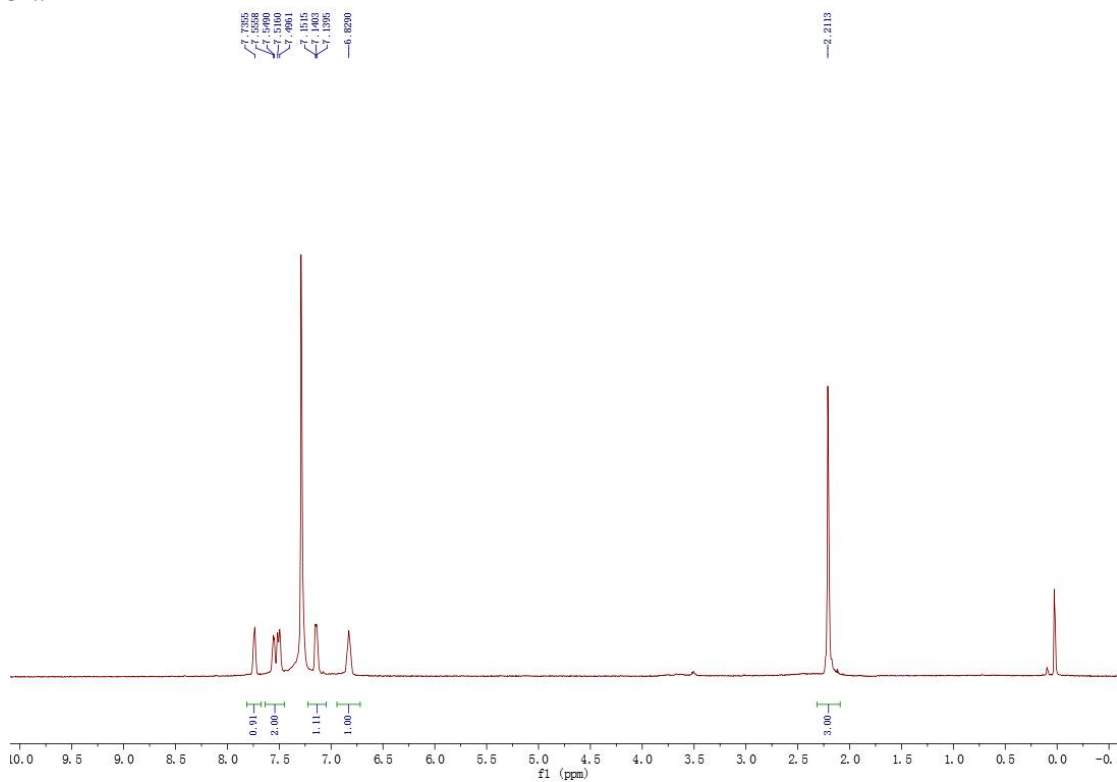
3ga



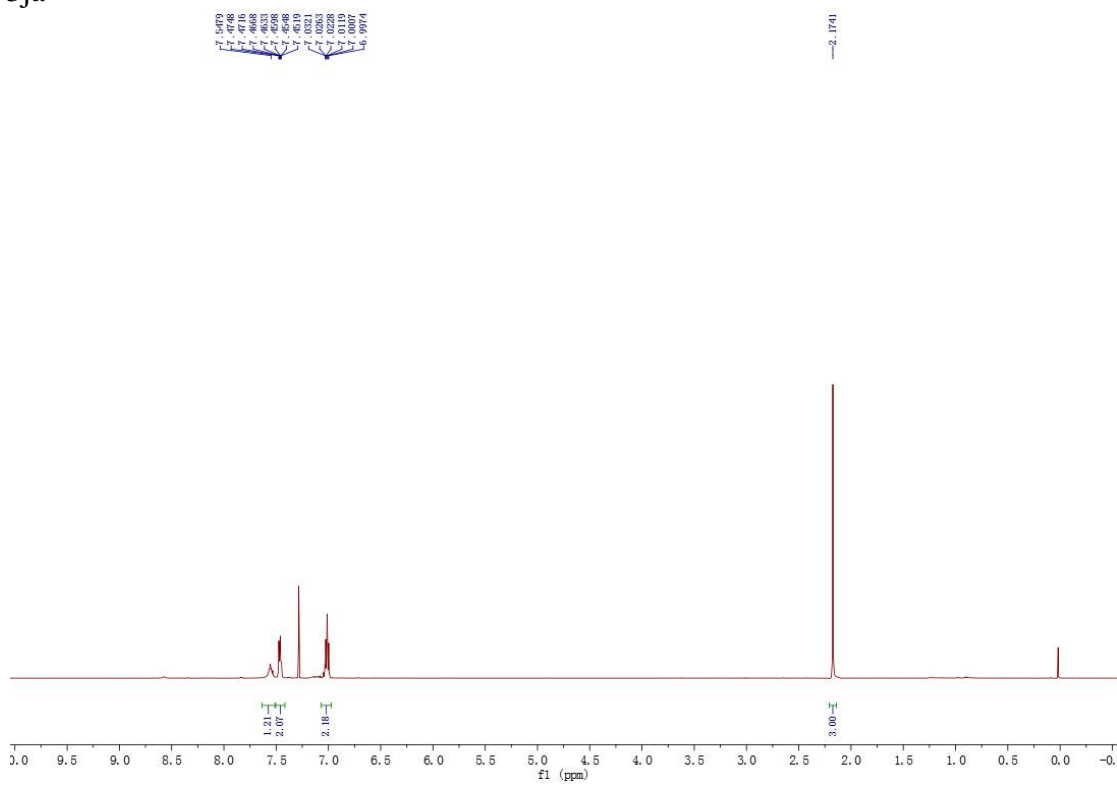
3ha



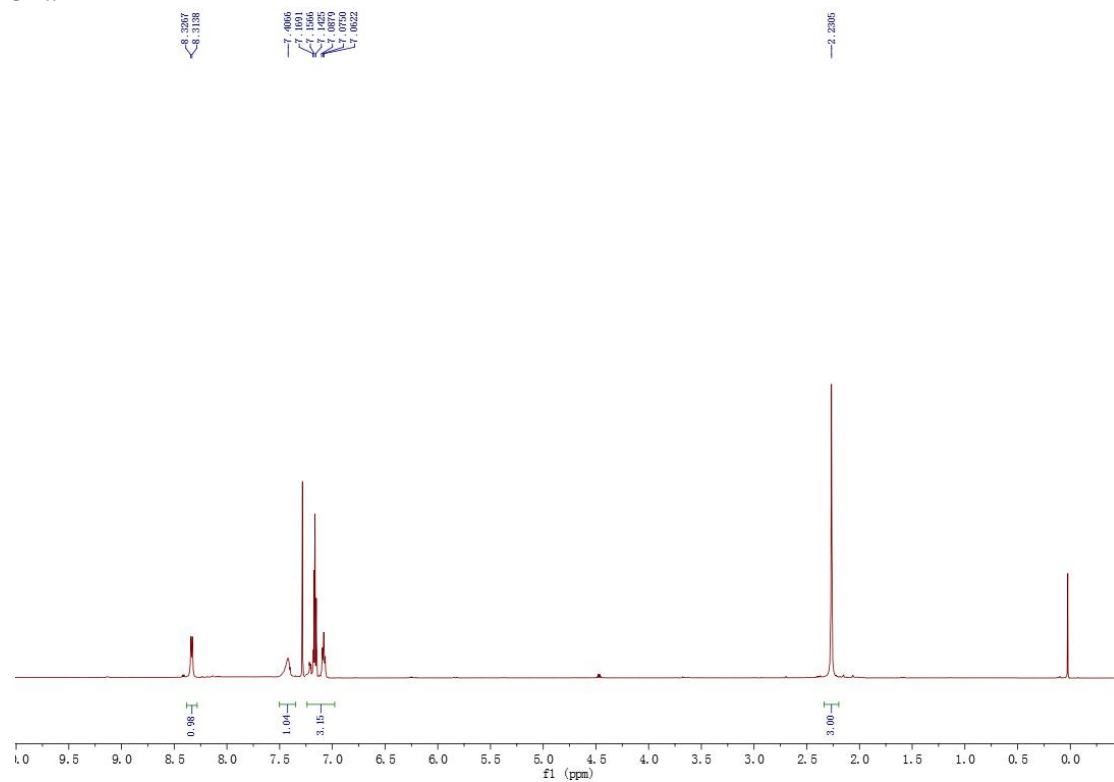
3ia



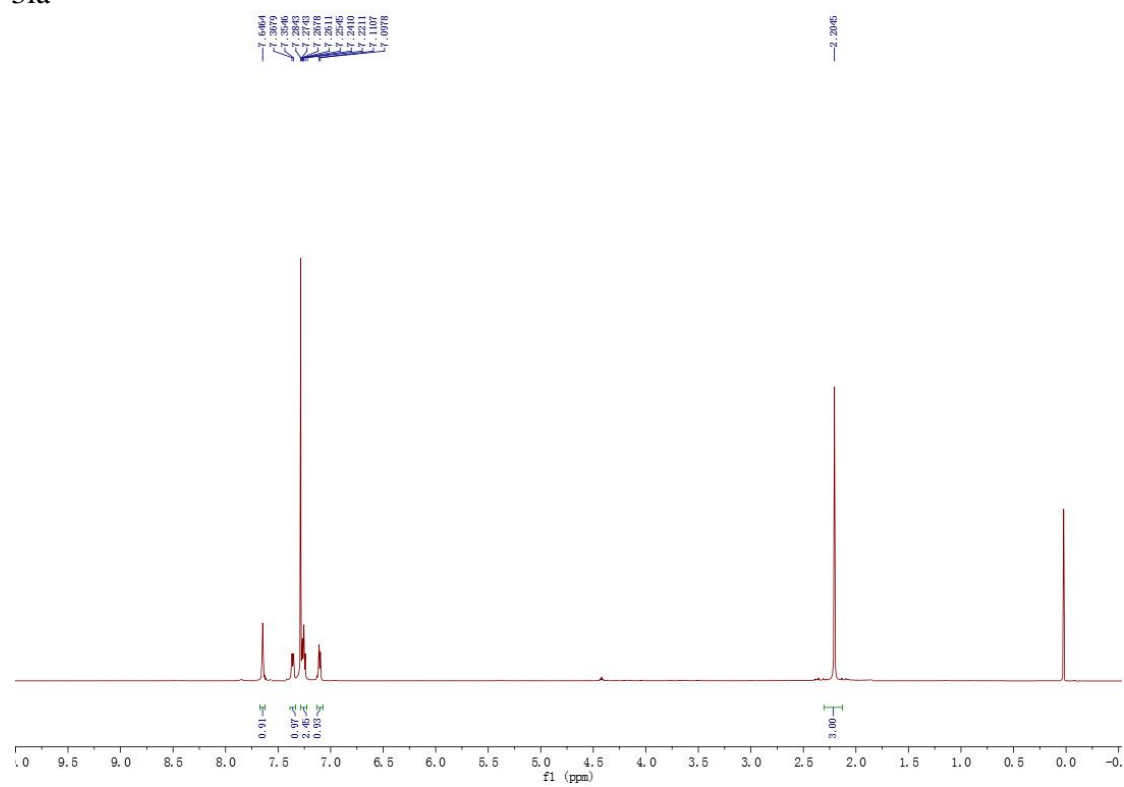
3ja



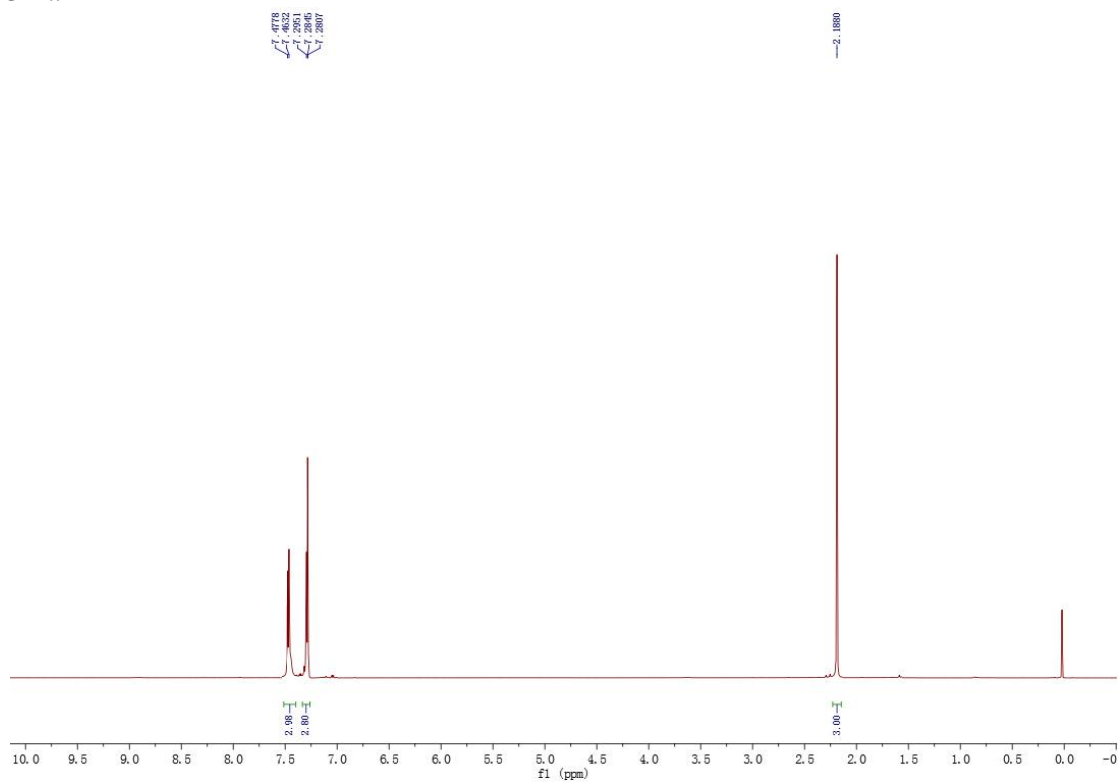
3ka



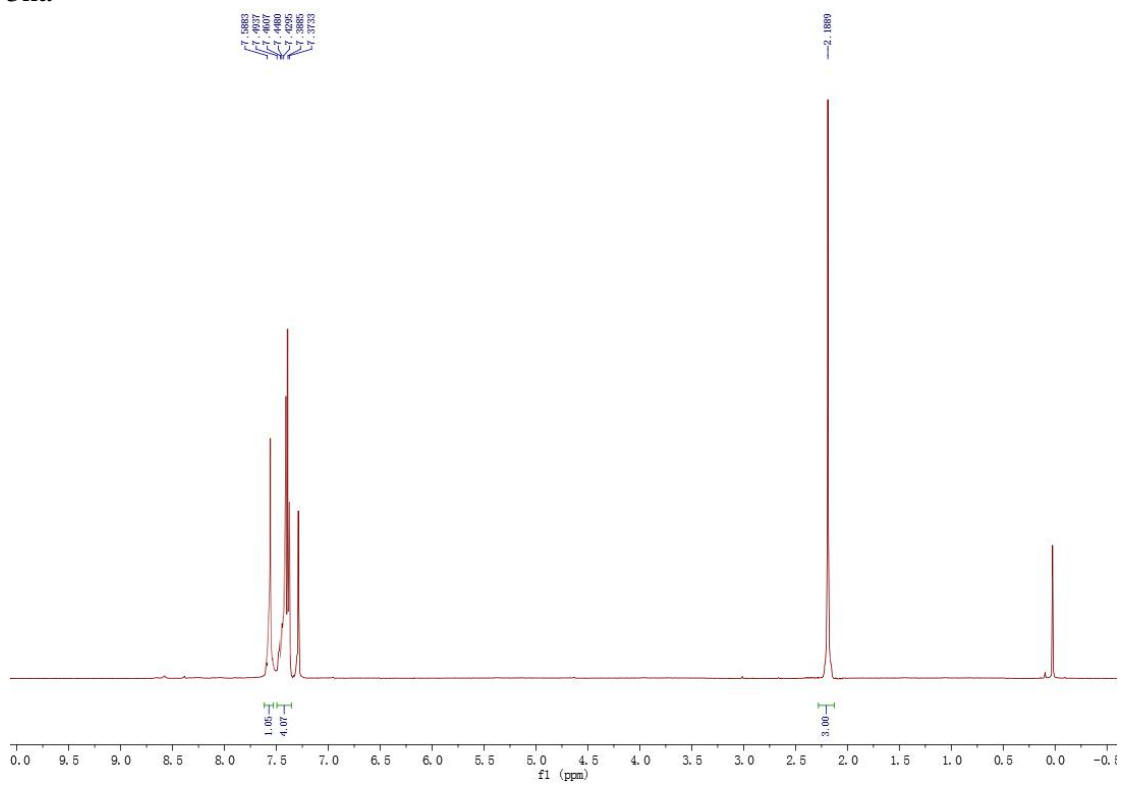
3la



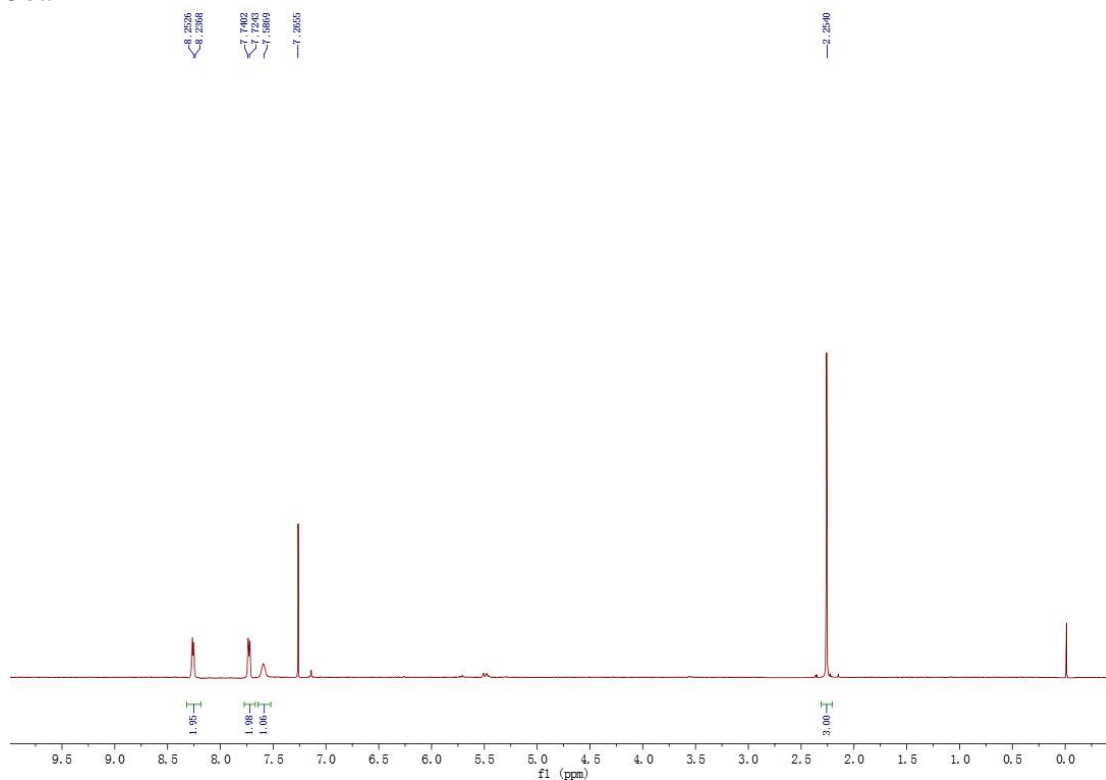
3ma



3na



3oa



3pa

