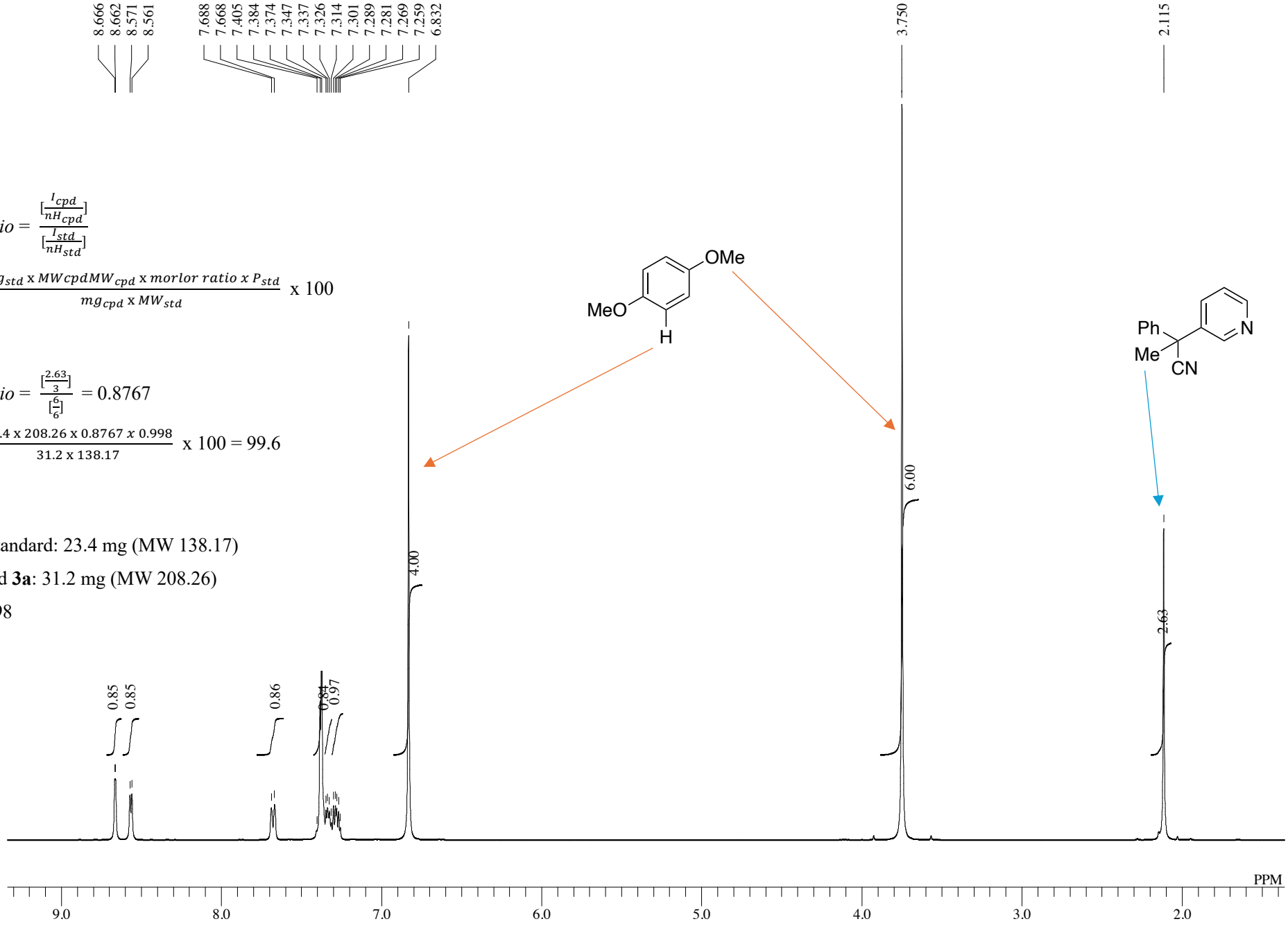
qNMR spectra of **3a** ($CDCl_3$, 400 MHz)



$$Molar\ ratio = \frac{[\frac{I_{cpd}}{nH_{cpd}}]}{[\frac{I_{std}}{nH_{std}}]}$$

$$wt\% = \frac{mg_{std}\ \text{x}\ MWcpdMW_{cpd}\ \text{x}\ morlor\ ratio\ x\ P_{std}}{mg_{cpd}\ \text{x}\ MW_{std}}\ \text{x}\ 100$$

$$Molar\ ratio = \frac{[\frac{2.63}{3}]}{[\frac{6}{6}]} = 0.8767$$

$$wt\% = \frac{23.4\ \text{x}\ 208.26\ \text{x}\ 0.8767\ x\ 0.998}{31.2\ \text{x}\ 138.17}\ \text{x}\ 100 = 99.6$$

Internal standard: 23.4 mg (MW 138.17)

Compaund **3a**: 31.2 mg (MW 208.26)

P_{std} = 0.998