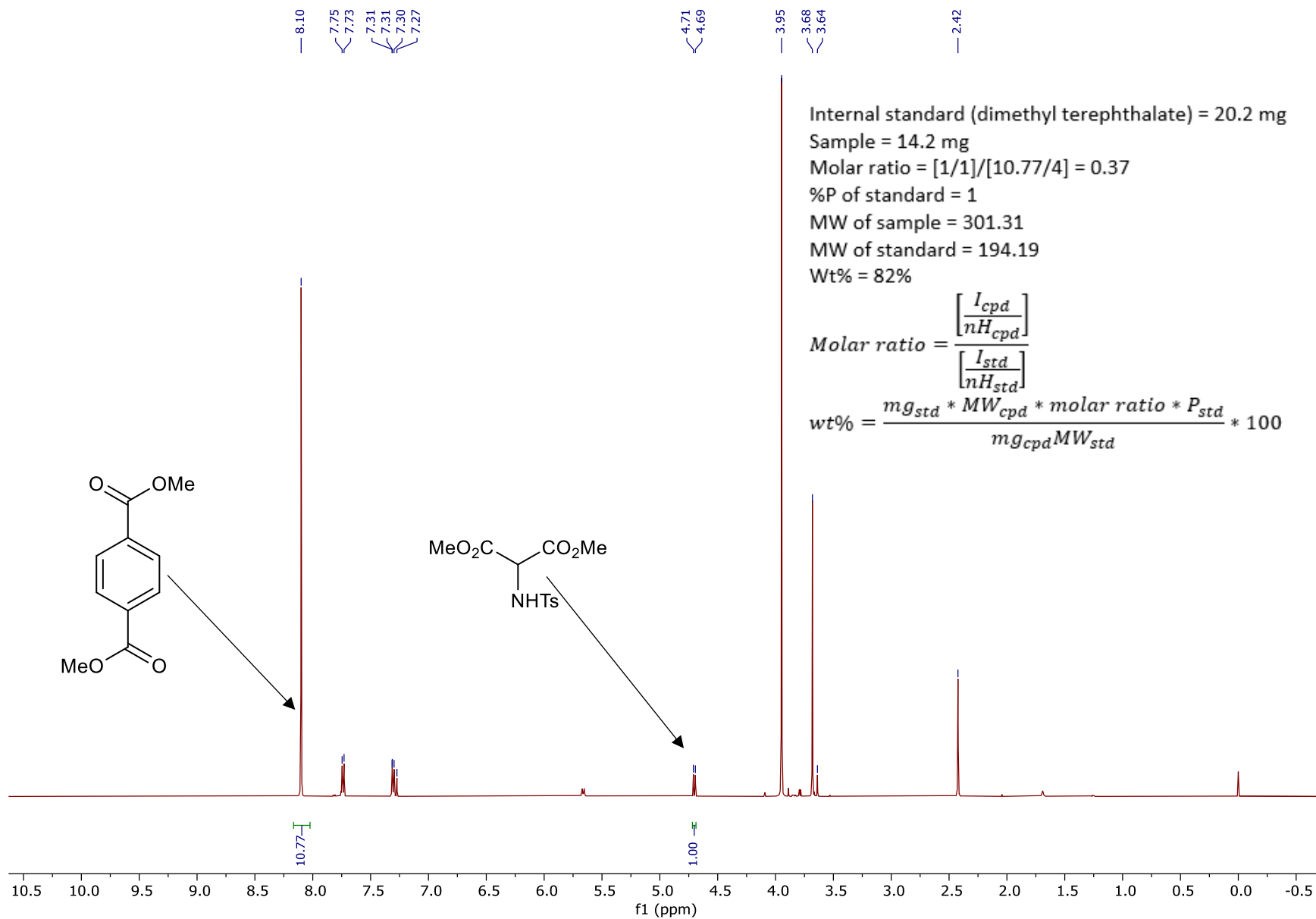




Internal standard (dimethyl terephthalate) = 20.2 mg

Sample = 14.2 mg

Molar ratio = $[1/1]/[10.77/4] = 0.37$

%P of standard = 1

MW of sample = 301.31

MW of standard = 194.19

Wt% = 82%

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

$$\text{wt}\% = \frac{mg_{std} * MW_{cpd} * \text{molar ratio} * P_{std}}{mg_{cpd} MW_{std}} * 100$$