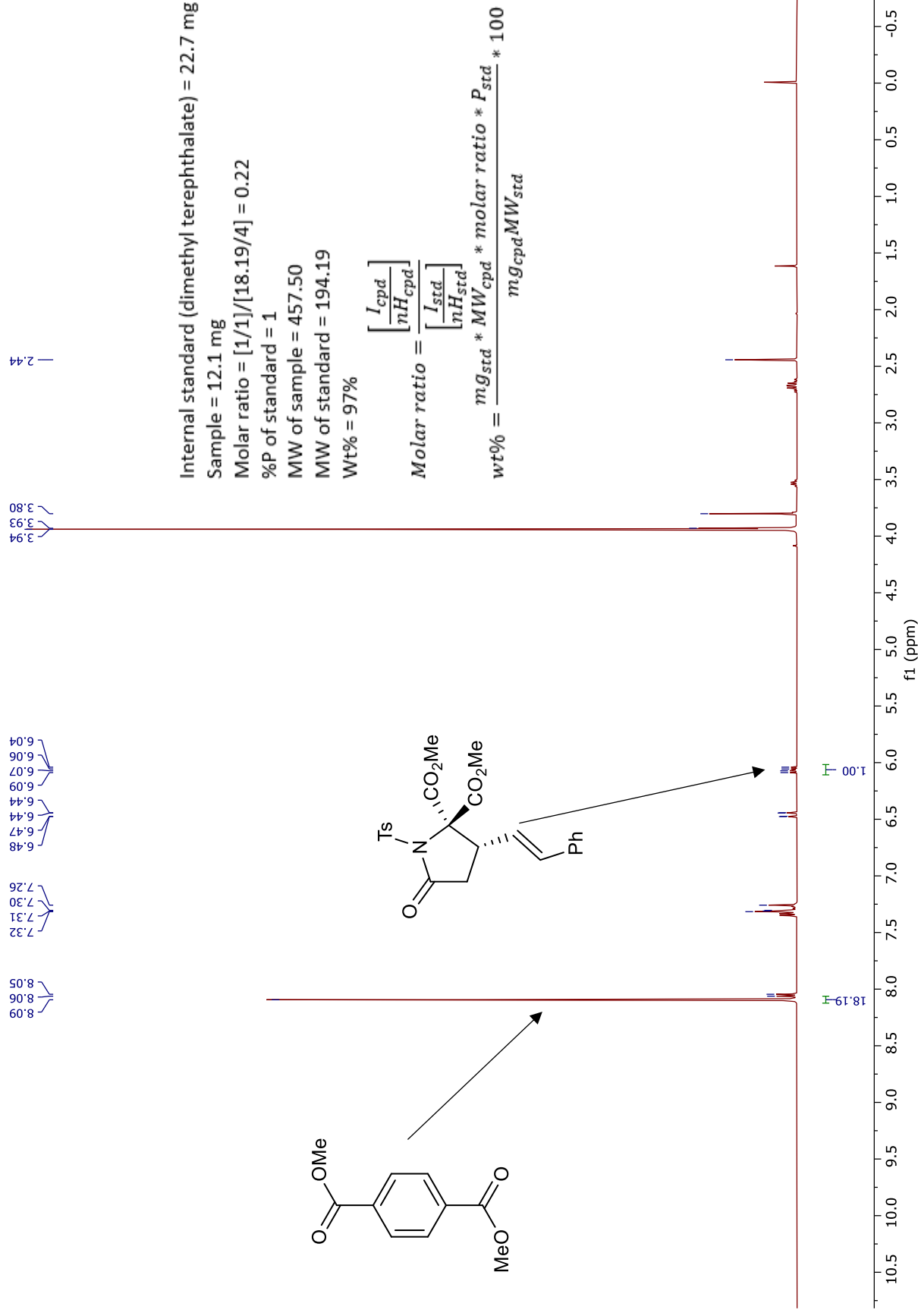




Internal standard (dimethyl terephthalate) = 22.7 mg

Sample = 12.1 mg

Molar ratio = $[1/1]/[18.19/4] = 0.22$

%P of standard = 1

MW of sample = 457.50

MW of standard = 194.19

Wt% = 97%

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

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