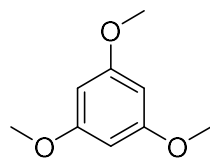


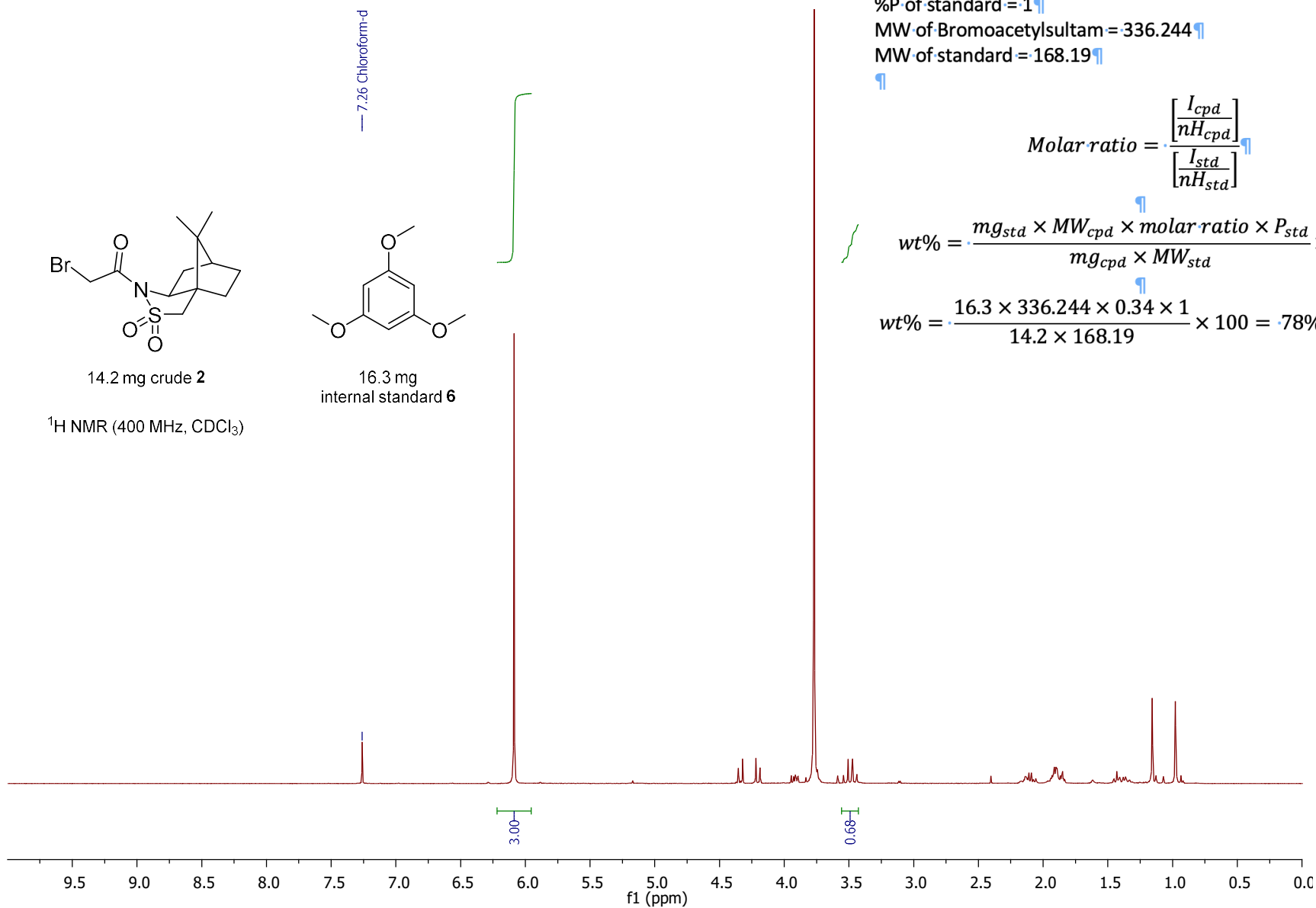
14.2 mg crude **2**

¹H NMR (400 MHz, CDCl₃)



16.3 mg
internal standard **6**

7.26 Chloroform-d



Internal standard = 16.3 mg

Sample = 14.2 mg

Molar ratio = $[0.68/2]/[3/3] = 0.34$

%P of standard = 1

MW of Bromoacetylsultam = 336.244

MW of standard = 168.19

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

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

$$\text{wt\%} = \frac{16.3 \times 336.244 \times 0.34 \times 1}{14.2 \times 168.19} \times 100 = 78\% \text{ purity}$$