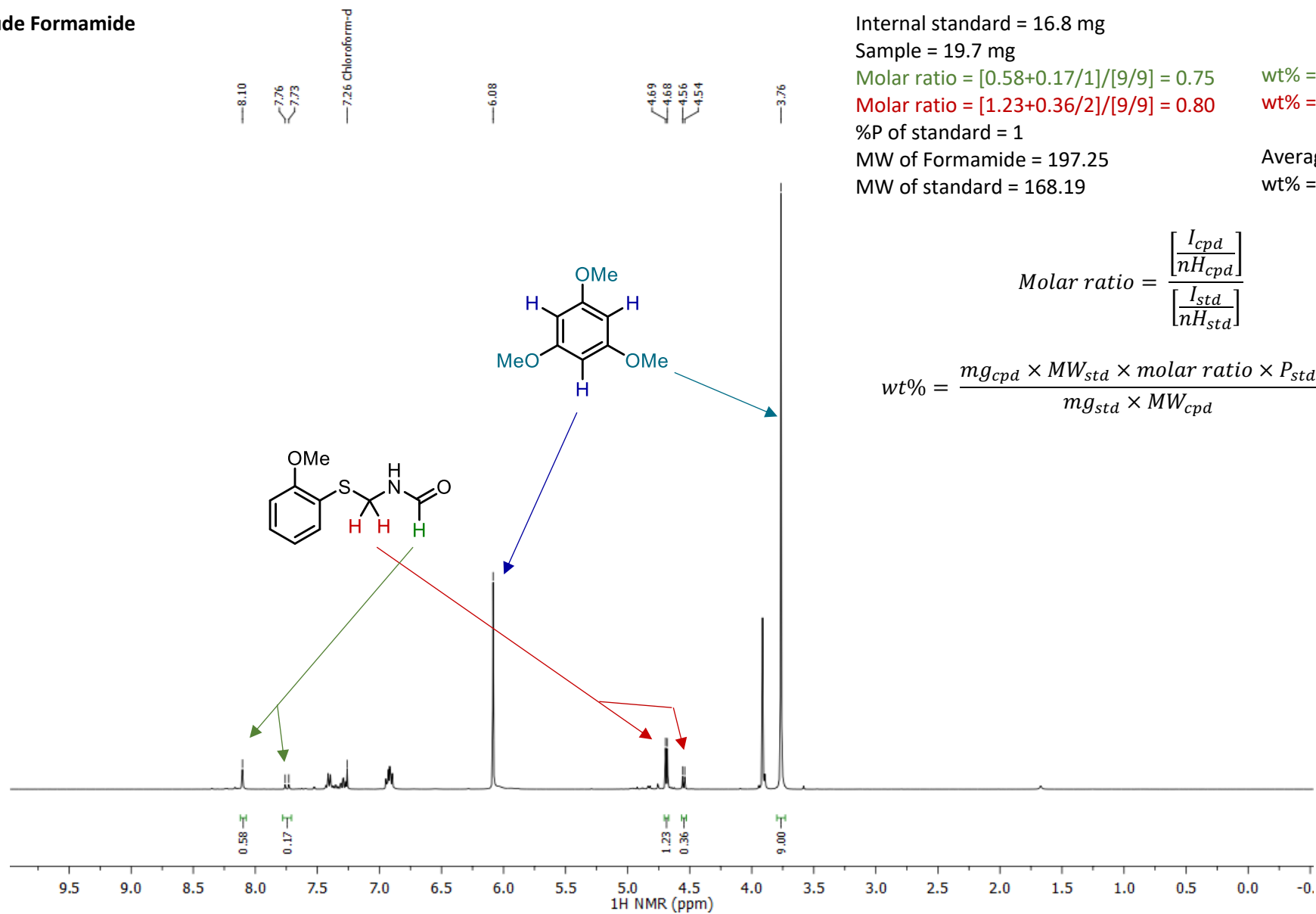


Crude Formamide



Internal standard = 16.8 mg

Sample = 19.7 mg

Molar ratio = $[0.58+0.17/1]/[9/9] = 0.75$

wt% = 75.0%

Molar ratio = $[1.23+0.36/2]/[9/9] = 0.80$

wt% = 80.0%

%P of standard = 1

MW of Formamide = 197.25

Averaged :

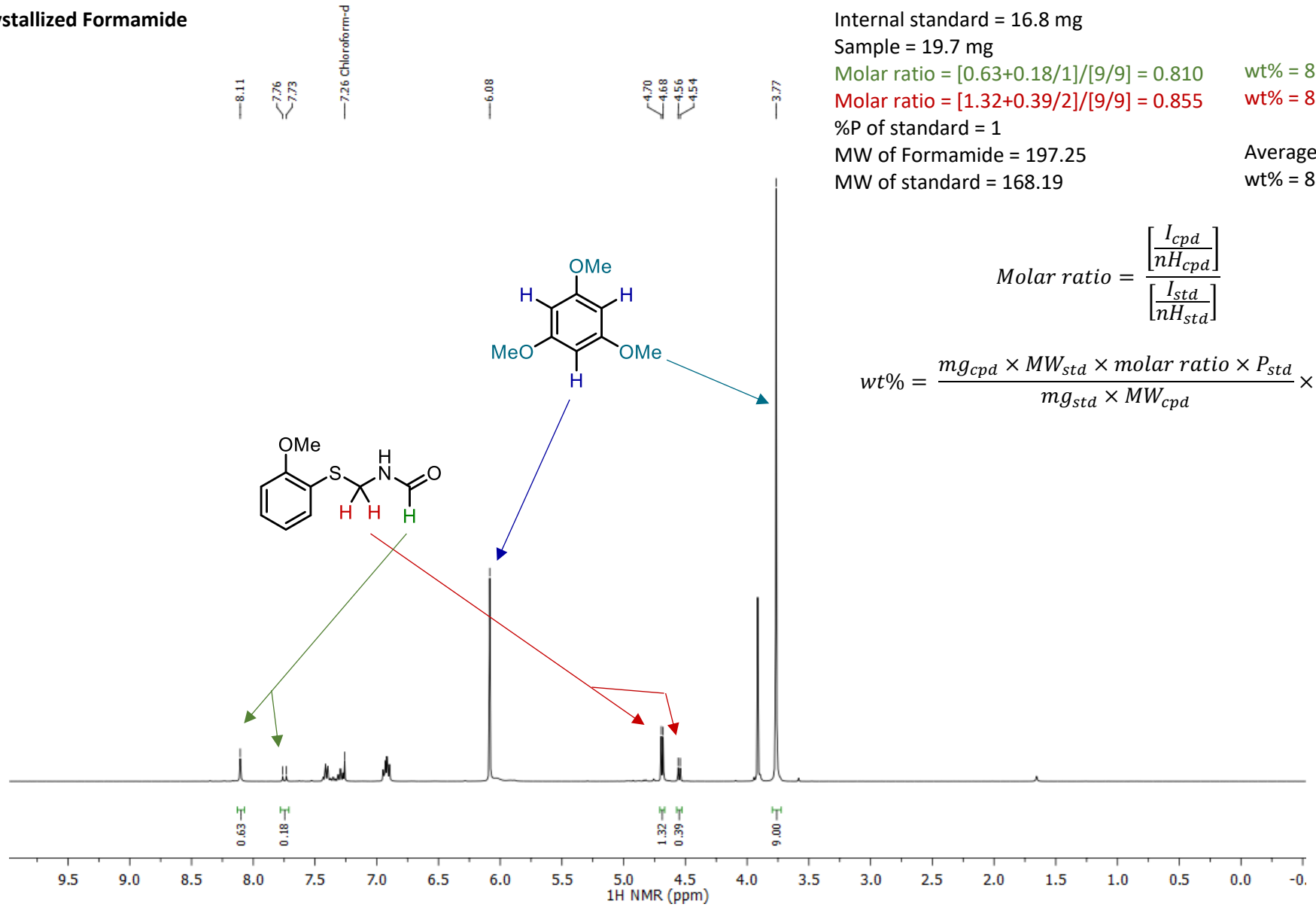
MW of standard = 168.19

wt% = 77.5%

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

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

Crystallized Formamide



Internal standard = 16.8 mg

Sample = 19.7 mg

Molar ratio = $[0.63+0.18/1]/[9/9] = 0.810$

wt% = 81.0%

Molar ratio = $[1.32+0.39/2]/[9/9] = 0.855$

wt% = 85.5%

%P of standard = 1

MW of Formamide = 197.25

Averaged :

MW of standard = 168.19

wt% = 83.3%

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

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