

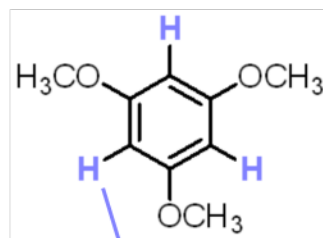
**<sup>1</sup>H NMR, CDCl<sub>3</sub>, 400 MHz  
with trimethoxybenzene internal standard**

$$I_{\text{Analyte}} = 2.00 + 0.99 + 2.00 = 4.99$$

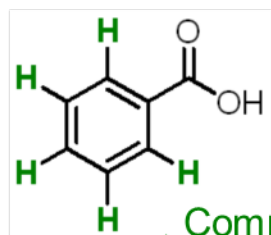
$$I_{\text{CRM}} = 2.69$$

$$P = \frac{I_{\text{Analyte}}}{I_{\text{CRM}}} \cdot \frac{N_{\text{CRM}}}{N_{\text{Analyte}}} \cdot \frac{M_{\text{Analyte}}}{M_{\text{CRM}}} \cdot \frac{m_{\text{CRM}}}{m_{\text{Sample}}}$$

$$= \frac{4.99}{2.69} \cdot \frac{3}{5} \cdot \frac{122.12 \text{ g/mol}}{168.19 \text{ g/mol}} \cdot \frac{12.4 \text{ mg}}{10.1 \text{ mg}} = 99.2\%$$



1,3,5-trimethoxybenzene (12.4 mg)



Compound 5 (10.1 mg)

