$$T = \frac{0.0029 \text{ meters}}{\lambda_{\max}} \text{ Kelvin}$$

$$\frac{v}{c} = \frac{\lambda - \lambda_0}{\lambda_0}$$

$$\frac{\lambda - \lambda_0}{\lambda_0} = \frac{500.75 - 500.70}{500.70} = \frac{0.05}{500.70} = 0.0001$$