

$$q^{(k+1)}(\mathbf{z} \mid \boldsymbol{\theta}^{(k)}) = \arg \max_q F(q, \boldsymbol{\theta}^{(k)}) = \arg \min_q D_{KL} \left(q \left(\mathbf{z} \mid \boldsymbol{\theta}^{(k)} \right) \parallel \tilde{p}(\mathbf{z} \mid \boldsymbol{\theta}^{(k)}) \right)$$