d) Find a 95% Confidence interval for $\frac{\sigma_T^2}{(\sigma_T^2+\sigma^2)}$

$$\frac{L}{1+L} \le \frac{\sigma_T^2}{\sigma_T^2+\sigma^2} \le \frac{U}{1+U}$$

$$L = \frac{1}{n}\left(\frac{MS_{Trt}}{MS_\varepsilon}\left(\frac{1}{F_{0.025,4,21}}\right)-1\right), \quad U = \frac{1}{n}\left(\frac{MS_{Trt}}{MS_\varepsilon}\left(\frac{1}{F_{0.975,4,21}}\right)-1\right)$$

$$U = \frac{1}{5}\left(\frac{0.0242}{0.00438}\left(\frac{1}{0.1170}\right)-1\right), \quad L = \frac{1}{5}\left(\frac{0.0242}{0.00438}\left(\frac{1}{3.51}\right)-1\right)$$

$U = 9.2435$, $L = 0.11756$

$$U = \frac{9.2435}{10.2435} = 0.902377 \qquad L = 0.1148$$

95% Confidence Interval for ICC is between 0.1148 & 0.90238