(a) HCHO mixing ratios

\[ y = 0.99x + 0.1 \]

\[ r = 0.93 \]

(b) HCHO columns

\[ \Omega_{\text{OMI}} = 0.651 \Omega_{\text{airc}} + 2.95 \times 10^{15} \]

\[ \Omega_{\text{OMI}} = 0.659 \Omega_{\text{FTIR}} + 2.02 \times 10^{15} \]

\[ \Omega_{\text{OMI}} = 0.655 \Omega_{\text{OMI,BC}} + 2.5 \times 10^{15} \]

\[ r = 0.92 \]