

Figure 1: Sensors Distribution.

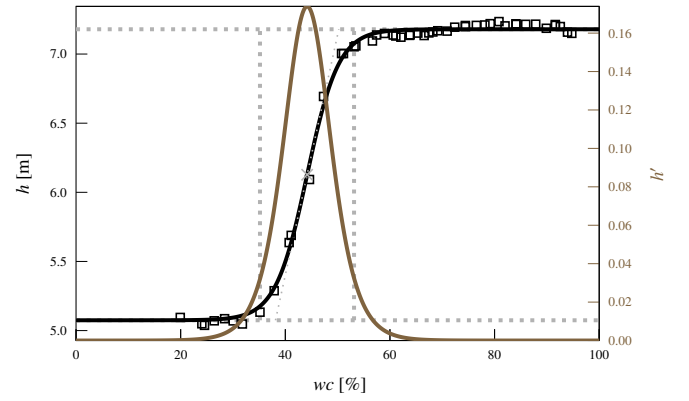
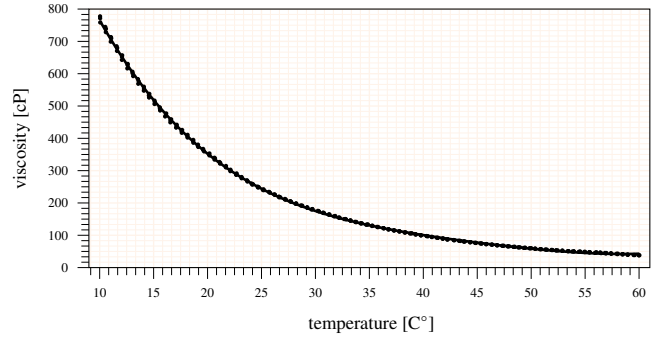


Figure 2: 40 [Hz], 169 [mPa-s], 28 [m<sup>3</sup>/h]

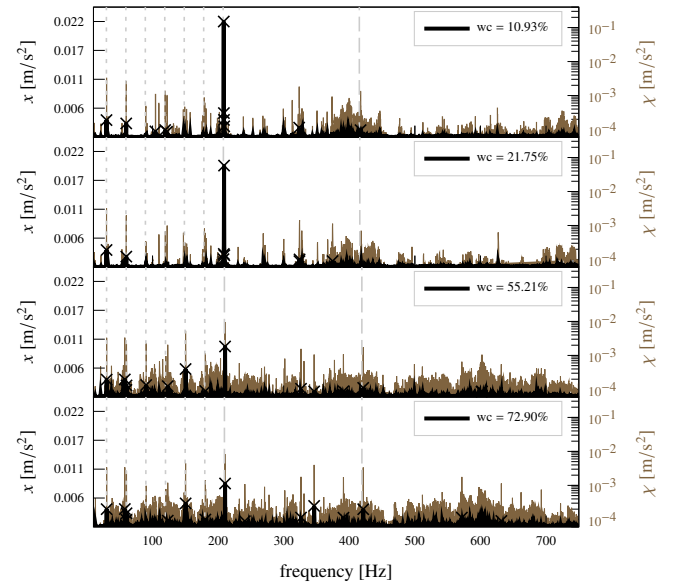
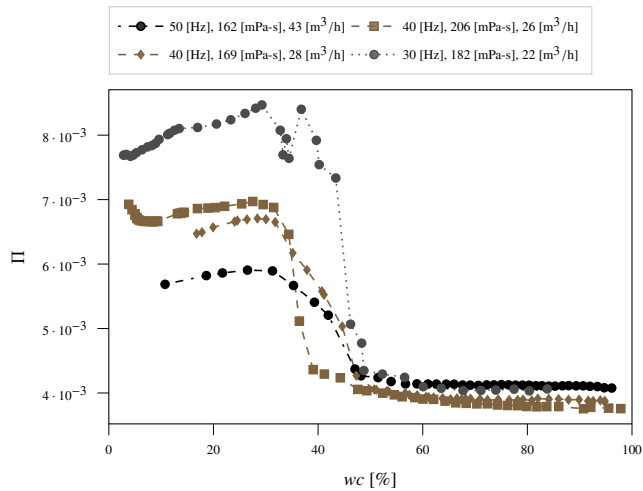
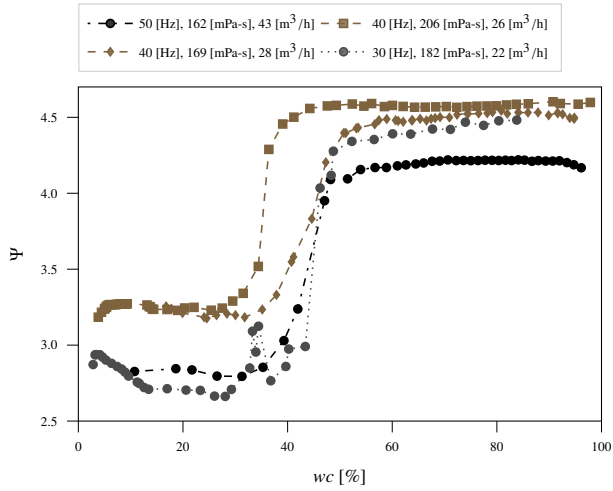


Figure 4: AC-04 0-750 Hz

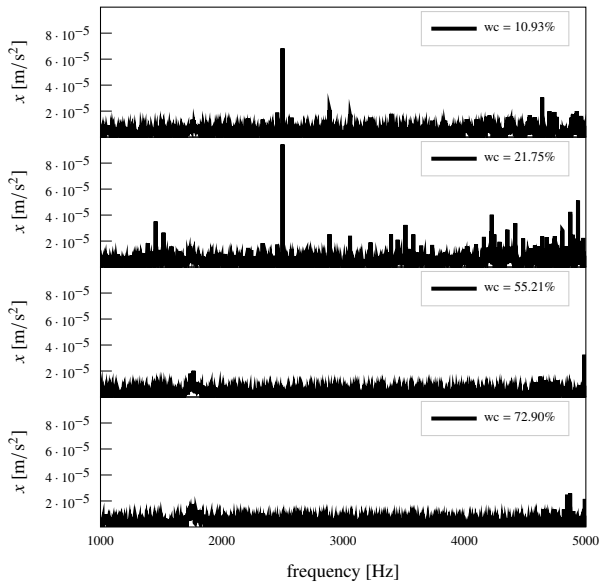
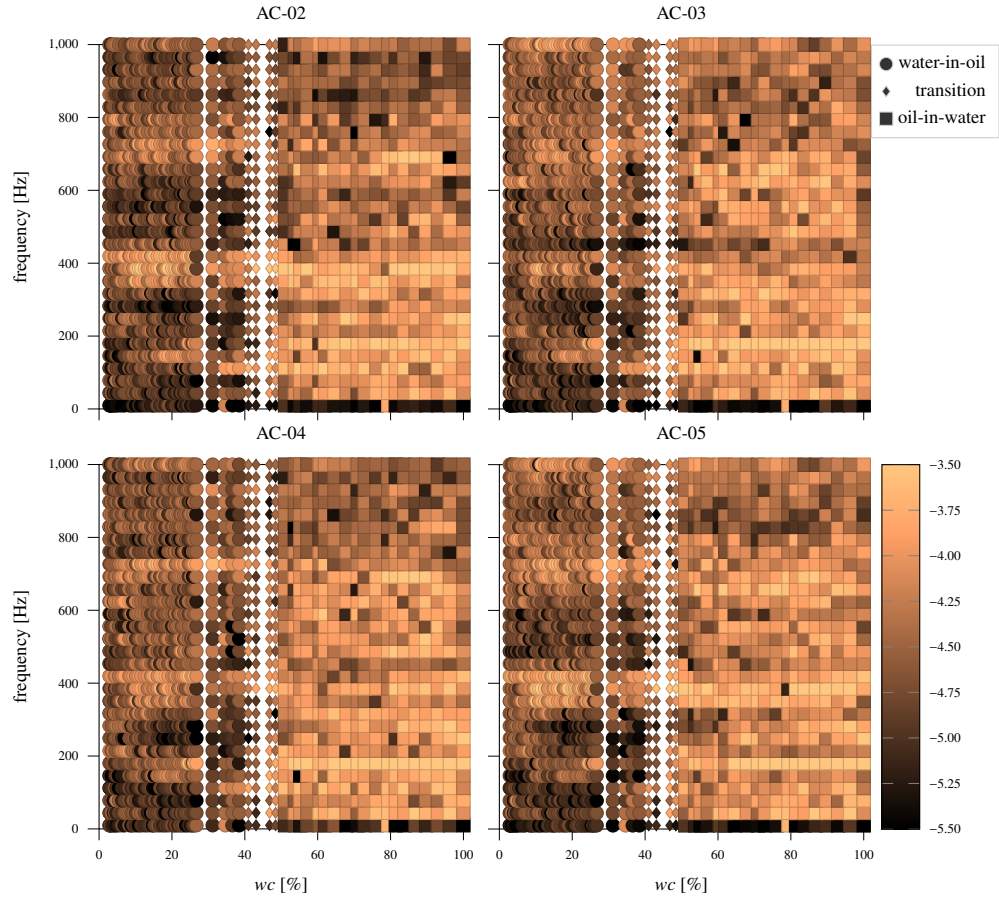


Figure 5: AC-01Z 1-5kHz

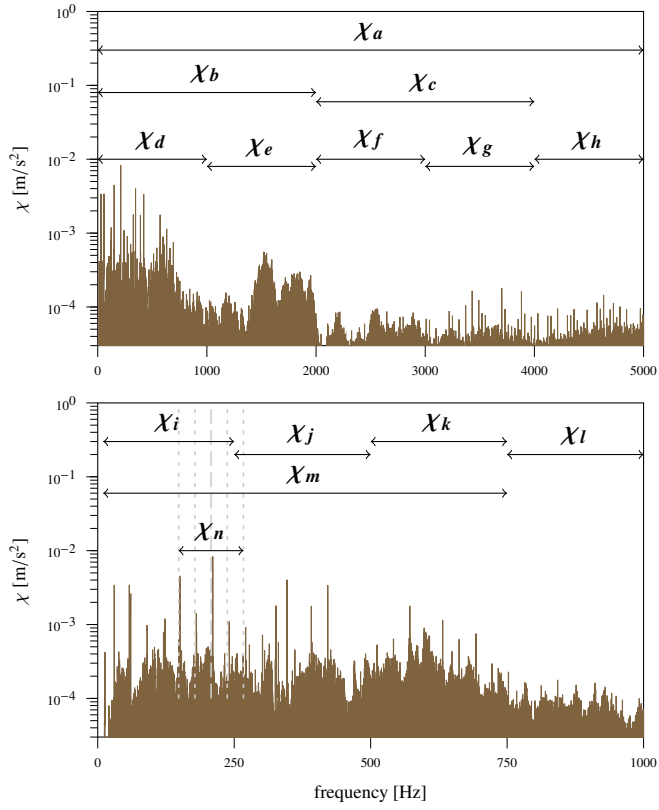


Figure 6: Analysis ranges AC-04 sensor at 72.9% water cut

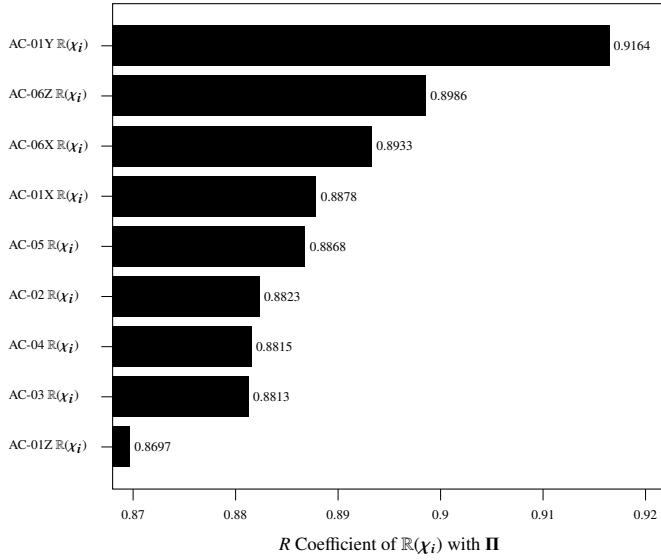


Figure 7: Pearson correlation with the dimensionless torque

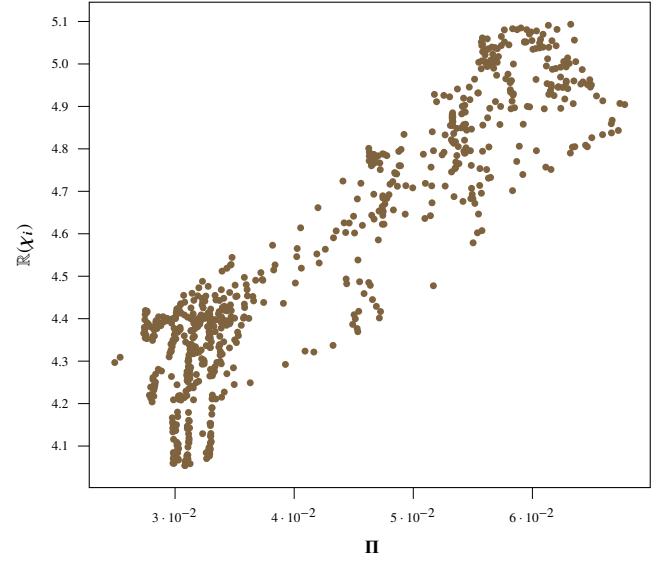


Figure 8: Dimensionless torque vs rms of fft between 0 - 250 Hz for AC-01Y sensor

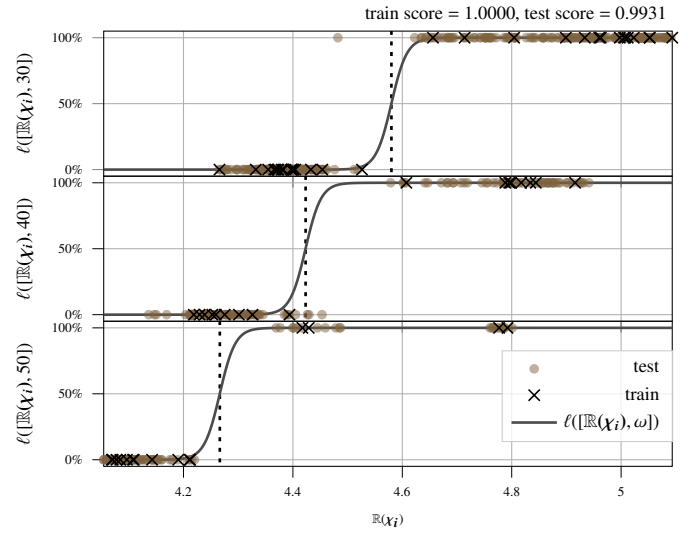


Figure 9: AC-01Y

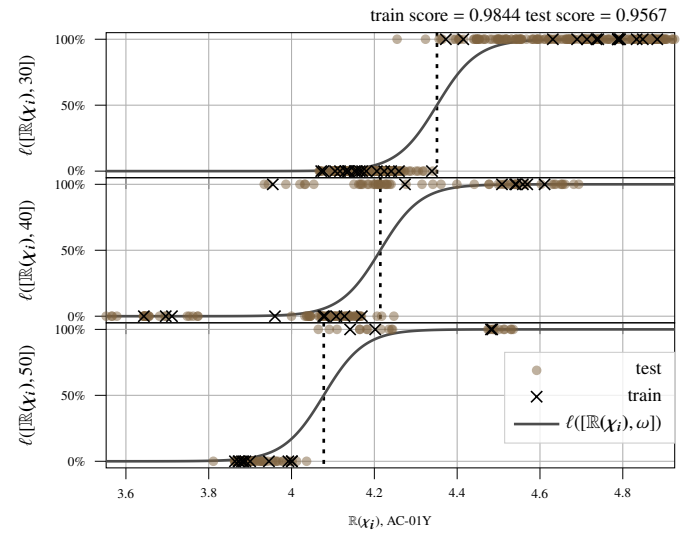
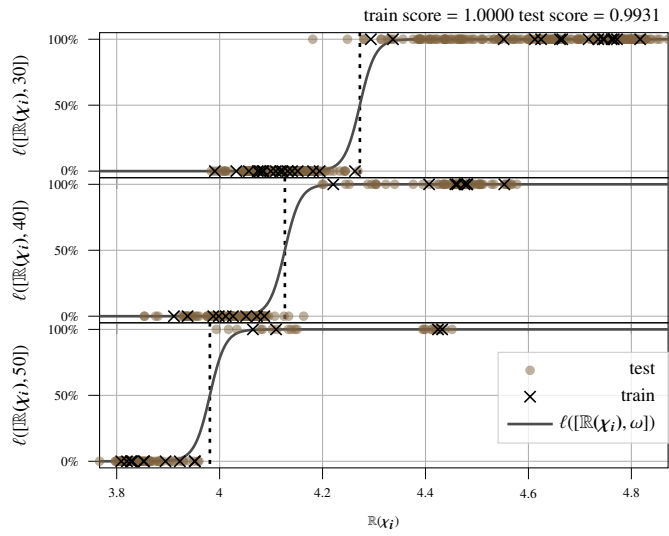
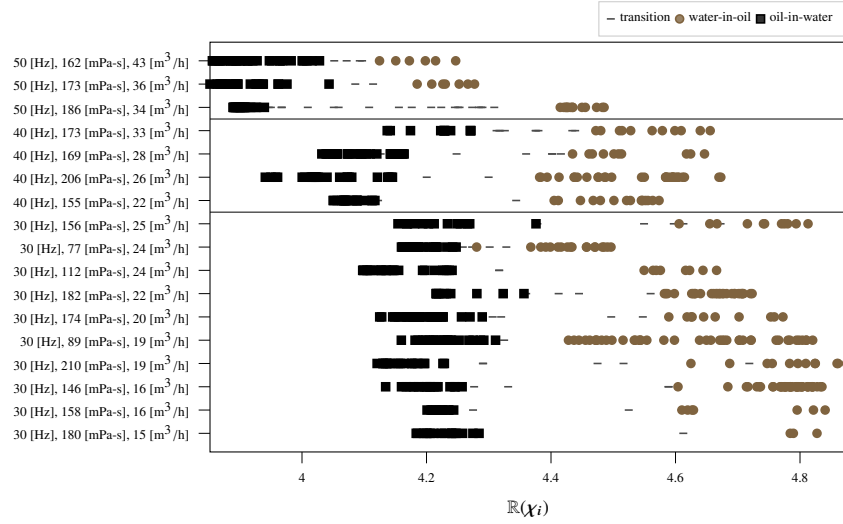
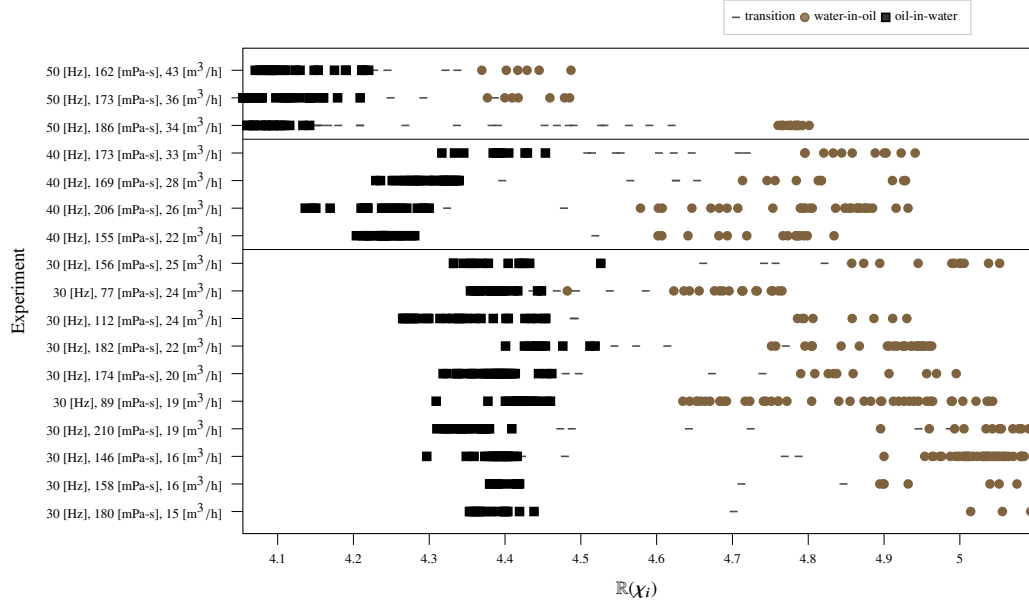


Figure 10: AC-04

Figure 11: AC-06Y

