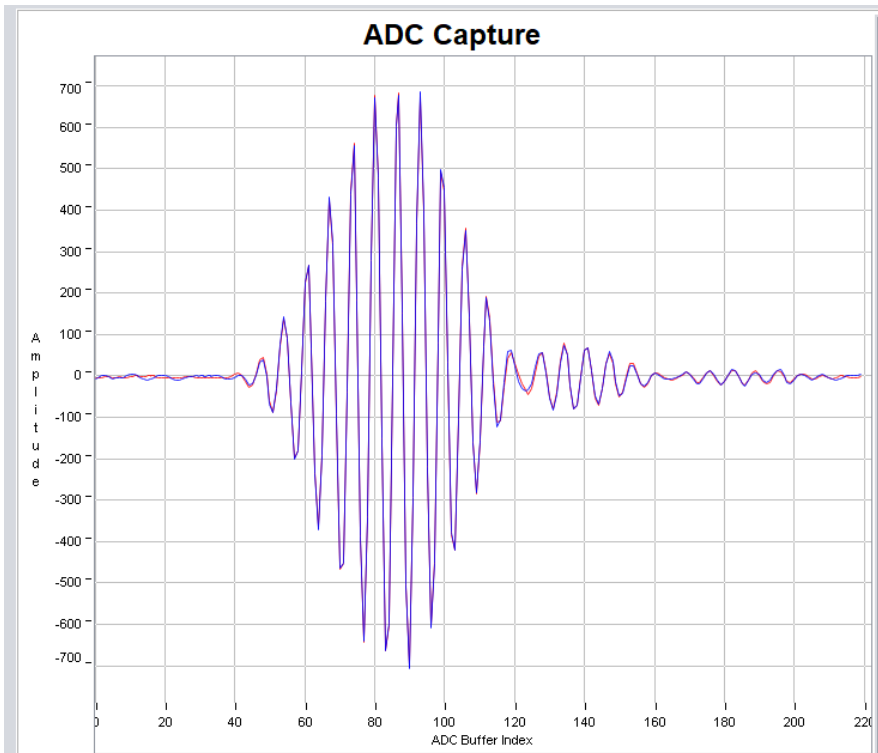


1 minute each at the following flow rates: 10, 6, 4, 2, 0 L/min

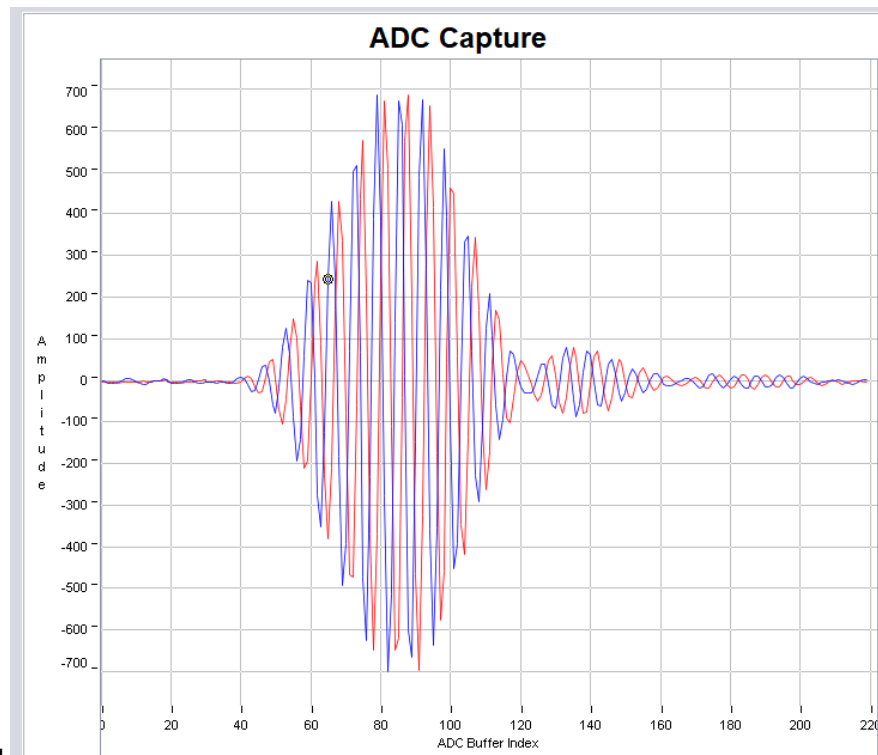


The fundamental frequency of this transducer is about 310 kHz, so the period is about 3.22 $\mu$ s. The spikes we see in the Delta ToF chart are also very close to 3.2 $\mu$ s, so it appears that the algorithm is getting out of phase by 1 period. Notice in the following ADC captures that the UPS and DNS are shifted by about 1 period. It appears that the algorithm is having trouble distinguishing 6 L/min from zero flow.

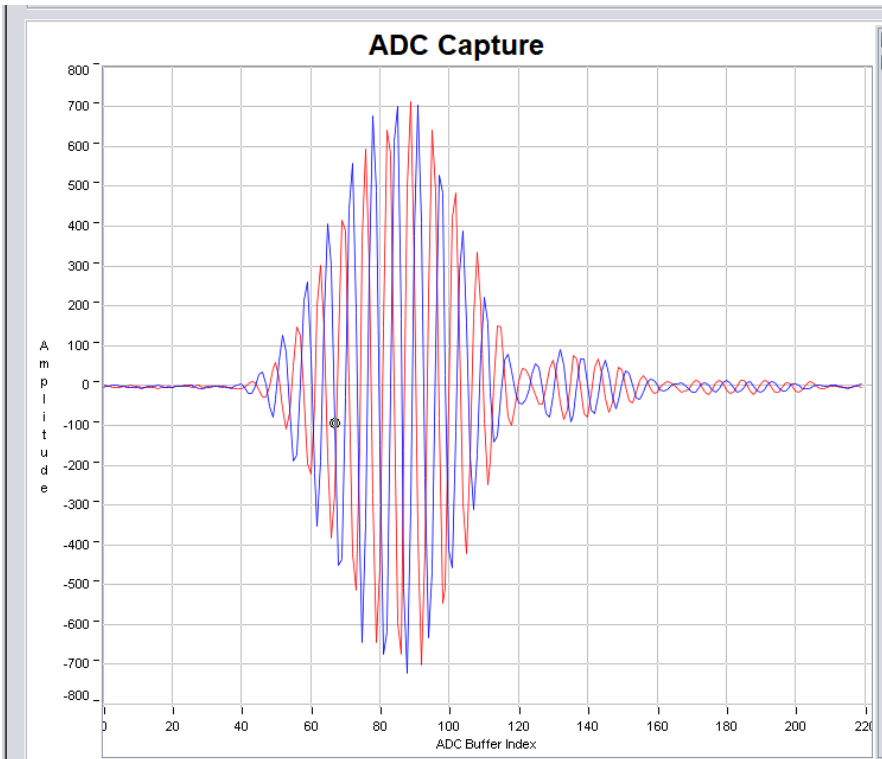
0 LPM



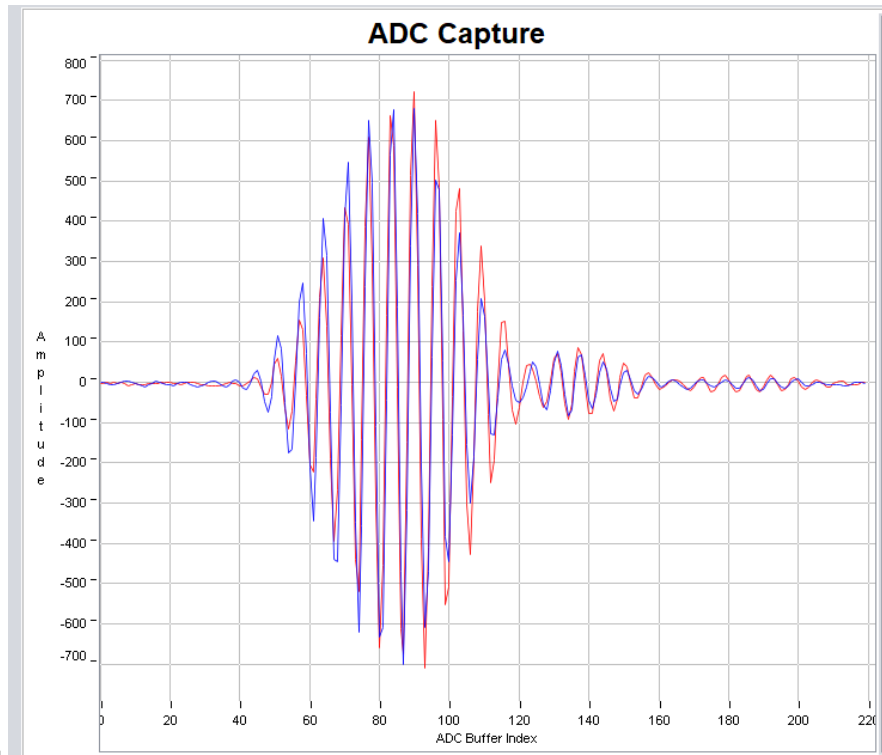
2 LPM

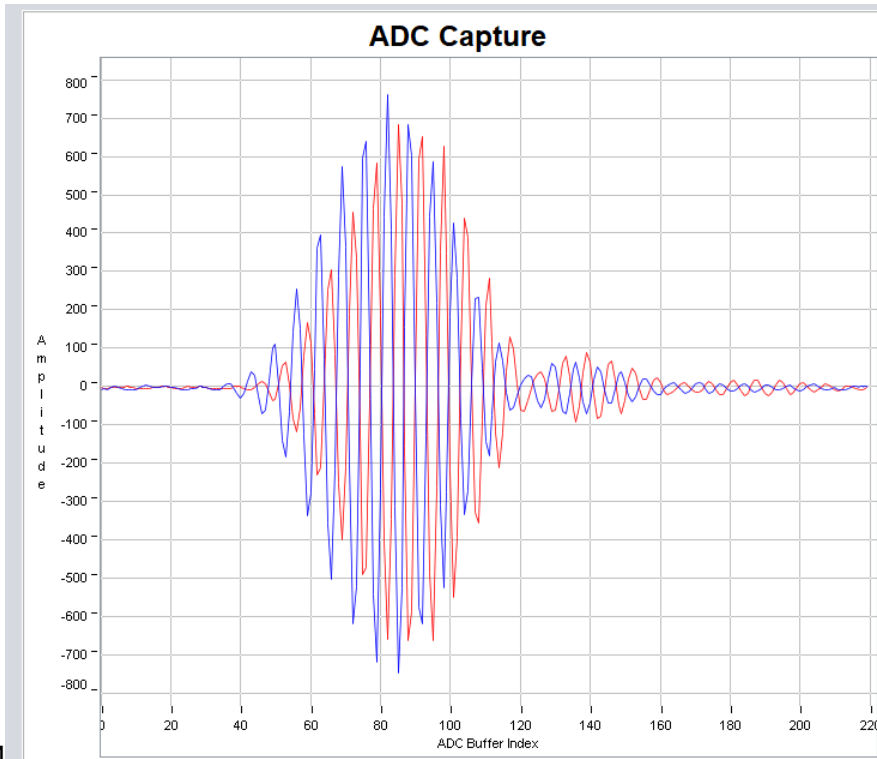


4lpm



6LPM





10LPM

Depending on the frequency sweep and number of pulses we use, we can get different results, but they are not consistent from day to day.