# Introduction

UKDAQ dev board 0.7.0 is the first dev board to properly assemble. This document will serve as a testing log to record all actions that may or may not lead to MCU failure in the future

# Test Logs

Below are a list of actions and results:

* Continuity test
  + I used a multimeter and performed continuity probing on all built-in test points to check for short circuits.
  + I observed no short circuits.
* Basic powerup test
  + I directly connected VDD to a 3.3 volt power supply and probed various rails on the board.
  + I observed stability on all available power supply rails.
* Oscillator probing
  + I powered VDD directly from a 3.3V power supply and measured the output of the oscillator using an oscilloscope.
  + I measured a 50 mV pk2pk voltage biased at ~200 mV. The waveform was the correct frequency (so far as I am able to measure with the oscilloscope)
  + 50 mV is too low but it is assumed that amplification occurs either inside the MCU, or after the RTC is initialized by the MCU since the external oscillator is only used for RTC applications.
* Linear regulator test
  + I connected 5 volts to the VCC rail and probed the VDD rail.
  + I observed a steady 3.20 - 3.28 volts on the VDD rail.
* Level shifter test
  + I powered VCC with 5 volts and probed the VDD RX rail. The rail is attached to a pullup resistor in the MCU. I shorted the VCC RX rail to ground to simulate bringing the signal low.
  + I observed the VDD RX rail to go low in response to VCC RX.
* Hello world program test
  + Using the programming board from maxim integrated I attempt to program a “Hello World” script, that has been validated using the dev breakout board I received from Maxim Integrated.
  + …