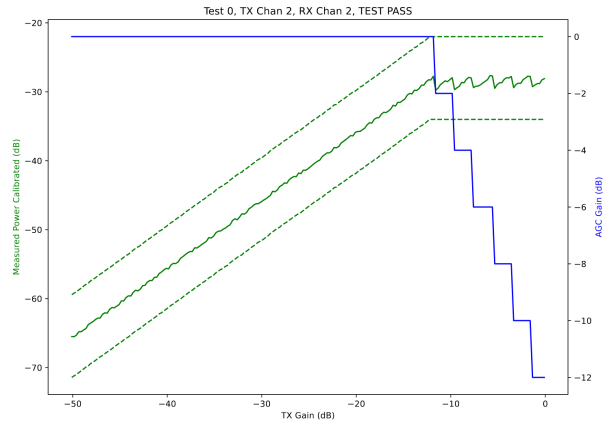


# Daughtercard Validation Procedure

## General Overview

This test will transmit a tone out of a TX channel and we will loop back that tone into the corresponding RX channel. During this test, the power will sweep up on amplitude until the AGC engages. The end result will be a plot as follows for each channel pair. Note that we will only be testing Channels 3 and 4.

NOTE: Your loopback cable should be as short as possible to ensure that the TX output power is enough to engage the AGC. The test will determine if the cable is insufficient, but generally try and make the cable < 5dB of loss.



## Procedure

1. Connect the the following channels together with a loopback SMA Cable

TX3 → RX3

TX4 → RX4



2. Power on the device and log in.
3. Copy the test script to the AIR-T.
4. Run the test script, which may take up to 30 minutes.

Shell

```
python agc_validation.py
```

5. After the test runs, two files will be created. Please send both of those to Deepwave for verification. The files will be named:  
    <serial\_number>\_agc\_validation.log  
    <serial\_number>\_agc\_validation.pdf