SNR TEST

- CONFIGURATION
  - ./DAVIDS_TO_RX_FILE
    - NUM_RX_CHAN = 2
    - NUM_RX_STREAM_PORTS = 1
    - DURATION = 5
    - IQRATE = 8e6
    - CENTER_FREQ = 30e6
    - IMAGE_TYPE = LMS
    - FILE_PREFIX = [RUN DEPENDENT]

  - SIG GEN (NOISE) - BASE
    - LEVEL = -57 (-50 dBm AT INPUT TO SDR)
    - FREQ = 30 MHz
    - FM DEVIATION
      - BW = 3MHz
      - NOISE = UNIFORM

  - SIG GEN (TARGETS) - BASE
    - LEVEL = -96.7 dBm (-50 dBm AT INPUT TO SDR)
    - FM SWEEP
      - FREQ START = 29.5 MHz
      - FREQ STOP = 30.5 MHz
      - STEP LINEAR = 10 KHz
      - STEP DWELL = 10 MS
      - SHAPE = SAWTOOTH

SNR TESTS

RUN 1 - SNR 3 dB

NOISE SIG GEN = -60 dBm (-53 dBm @ SDR)

FILE : SNR. 3 dB. DAT

RUN 2 - SNR -10 dB

NOISE SIG GEN : -47 dBm (-40 dBm @ SDR)

FILE : ~~SNR. -10 dB~~

SNR. -10 dB. DAT

RUN 3 - SNR -20 dB

NOISE SIG GEN : -37 dBm (-30 dBm @ SDR)

FILE : SNR. -20 dB. dat

RUN 4 - SNR -30 dB

NOISE SIG GEN : -27 dBm (-20 dBm @ SDR)

FILE : SNR. -30 dB. dat

NOISE BW TESTS

NOISE SIG GEN = -37 dBm (-30 dBm @ SDR)
SNR = -20 dB (TARGETS = -50 dBm @ SDR)

RUN 1 - BW 100KHz
NOISE SIG GEN = 100 KHz

FILE BW.100KHz.DAT

RUN 2 - BW 1MHz
NOISE SIG GEN = 1MHz

FILE = BW.1MHz.DAT

RUN 3 - BW 2MHz
NOISE SIG GEN = 2MHz

FILE = BW.2MHz.DAT

RUN 4 - BW 3MHz
NOISE SIG GEN = 3MHz

FILE = BW.3MHz.DAT

RUN 5 - BW 3.75 MHz
NOISE SIG GEN = 3.75 MHz

FILE BW.3.75MHz.DAT

RUN 6 - BW 4 MHz
NOISE SIG GEN = 4MHz

FILE BW.4MHz.DAT

PATH LENGTH TESTS

RUN 1

~~SIG GEN TARGET~~

- ADDED 1 CABLE TO MAIN USING COUPLER

FILE CBL.1-CBL-MAIN.DAT

RUN 2

- ADDED 2 CABLES TO MAIN USING COUPLERS

FILE CBL.2-CBL_MAIN.DAT

RUN 3

-ADDED 1 CABLE TO AUX USING COUPLER

FILE CBL.1_CBL_AUX.DAT

RUN 4

- ADDED 2 CABLES TO AUX USING COUPLERS

FILE: CBL.2_CBL_AUX.DAT