

RF emission tests (e.g. VSWR) using the following antennas on the Apache Longbow:

Link 16 antenna (AV434-4), BFT antenna (S65-8282-301), both IFF (AV434-2) antennas, and a AV-207-2.

I will be using a network analyzer (Rhode and Schwarz ZVB) to drive the antennas. The network analyzer will be put in a single sweep mode of operation and sweep. The output power will be 10 – 20 dBm maximum.

The continuous wave frequency signal will be swept over the following bands:

30 – 960 MHz (1 MHz sampling – 931 samples)

960 – 1215 MHz (1 MHz sampling – 256 samples)

1250 – 1550 MHz (1 MHz sampling – 401 samples)

The total sweep time will be between 158 seconds and 15.8 seconds.

Since there are a total of 1588 samples, the maximum duration per frequency sample would be less than 0.1 seconds for the 158 sec sweep and 0.01 seconds per frequency sample for the 15.8 second sweep rate.

Location:

Mesa, AZ; 33 - 27 - 39.0 N, 111 - 43 - 42.0 W (Nad83)

Stop Buzzer:

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