TRANSMITTER OCCUPIED BANDWIDTH AND SPECTRUM MASKS

SPECIFICATION: FCC 47 CFR 2.1049 (c) RSS-119 5.5

GUIDE: TIA/EIA-603E 2.2.11 (Analog)
TIA-102.CAAA-C 2.2.5 (Digital)

MEASUREMENT PROCEDURE:

4. Refer Annex A for Equipment Set up.
   The EUT was modulated with an internally generated pseudo random bit sequence at the appropriate Baud rates.
5. The Occupied Bandwidth was measured on the Spectrum Analyser, with bandwidth settings as follows.
   Emission Mask D – Resolution Bandwidth = 100 Hz, Video Bandwidth = 1 kHz

MEASUREMENT RESULTS:
See the plots on the following pages for 12.5 kHz channel spacing.

MEASUREMENT UNCERTAINTY 95% ±0.65dB

LIMIT CLAUSE:	FCC 47 CFR 90.210	RSS-119 5.5

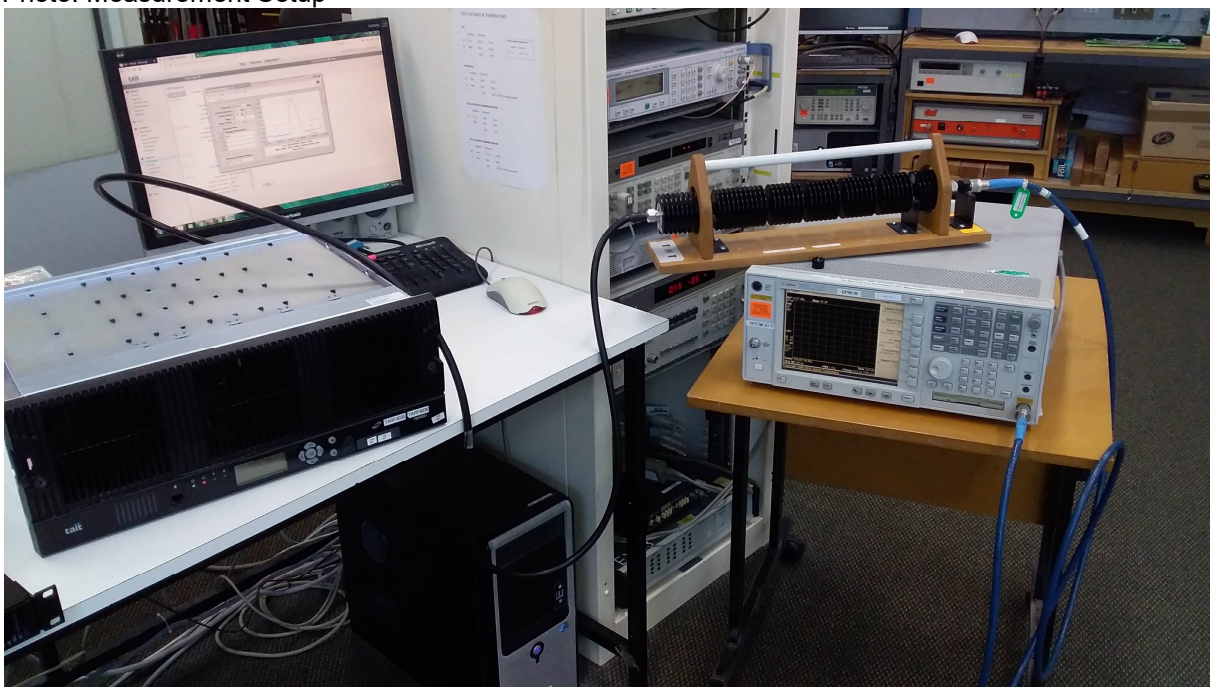
EMISSION MASKS

Emission Mask D	12.5 kHz Channel Spacing	Analog, FFSK, Digital Voice/Data

DATA SPEED

FFSK	12.5 kHz Channel Spacing	1200 bps
Digital Voice/Data	12.5 kHz Channel Spacing	9600 bps

Photo: Measurement Setup

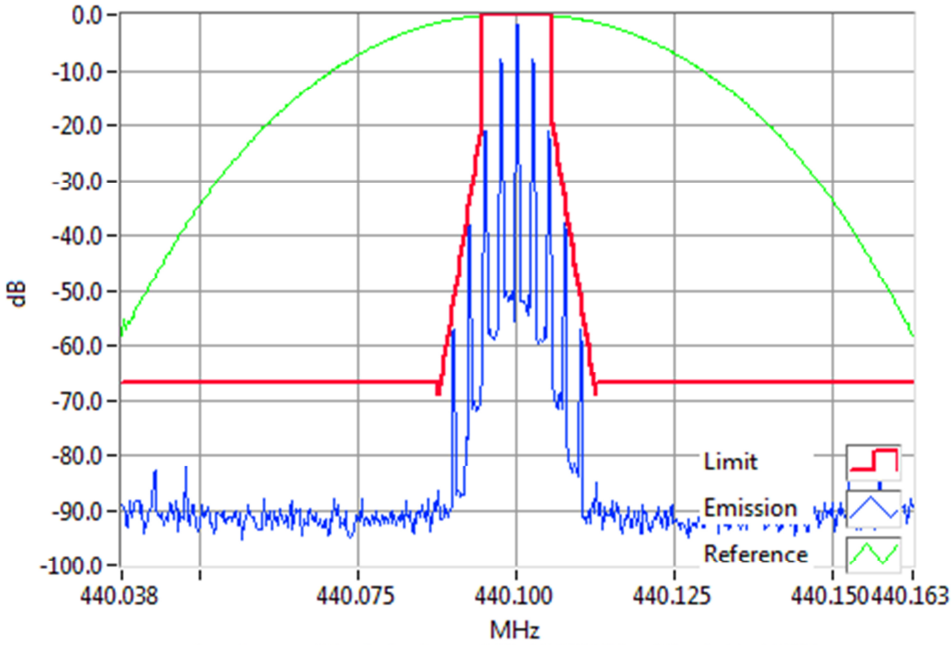


Occupied Bandwidth and Spectrum Masks

ANALOGUE VOICE

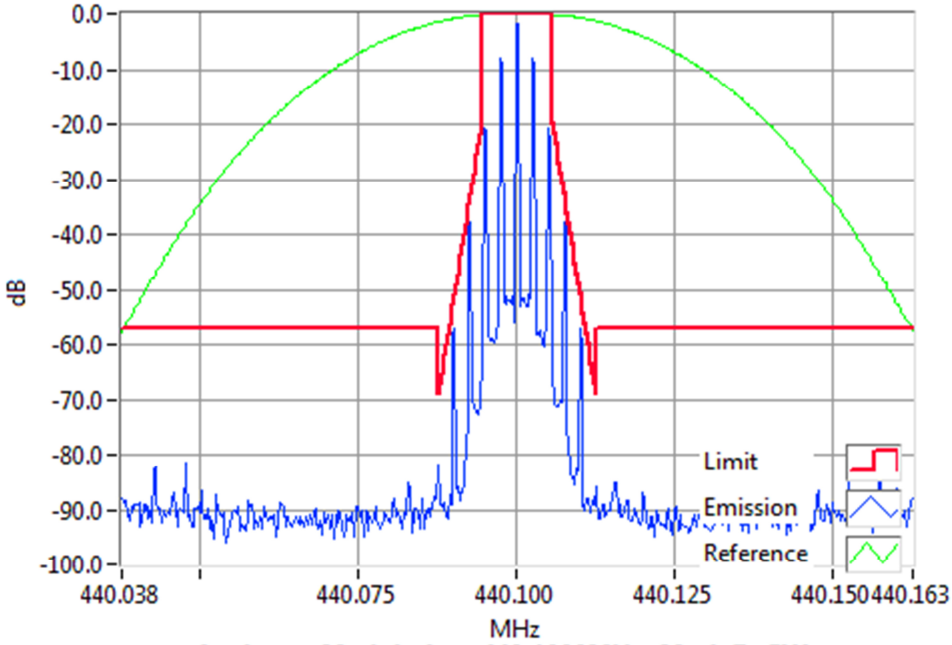
SPECIFICATION: FCC CFR 2.1049 (c) RSS-119 5.5

Tx FREQUENCY: 440.1 MHz 50 W 12.5 kHz Channel Spacing



Analogue Modulation 440.1000MHz Mask D 50W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass

Tx FREQUENCY: 440.1 MHz 5 W 12.5 kHz Channel Spacing



Analogue Modulation 440.1000MHz Mask D 5W
RBW=100Hz, VBW=1000Hz, Detector Mode=Peak
Result=Pass