

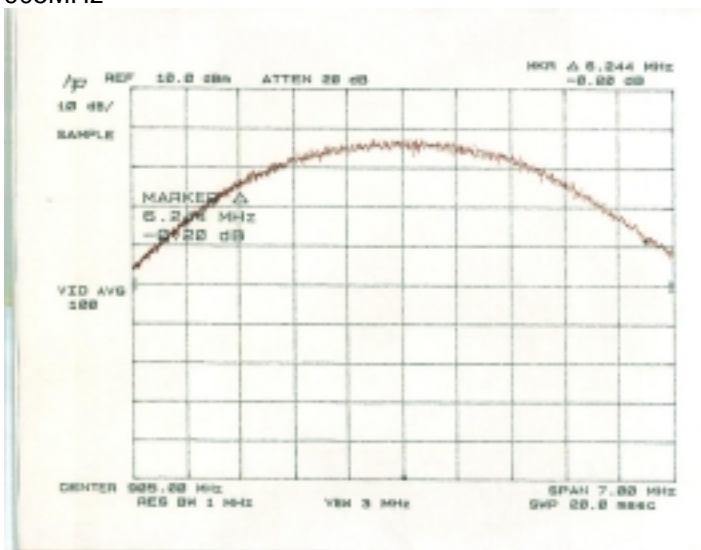
Murandi
Communications Ltd.
Innovative Radio Frequency Solutions

**EUM3006 Average Power
Measurements
Rev 1 – Jan/05**

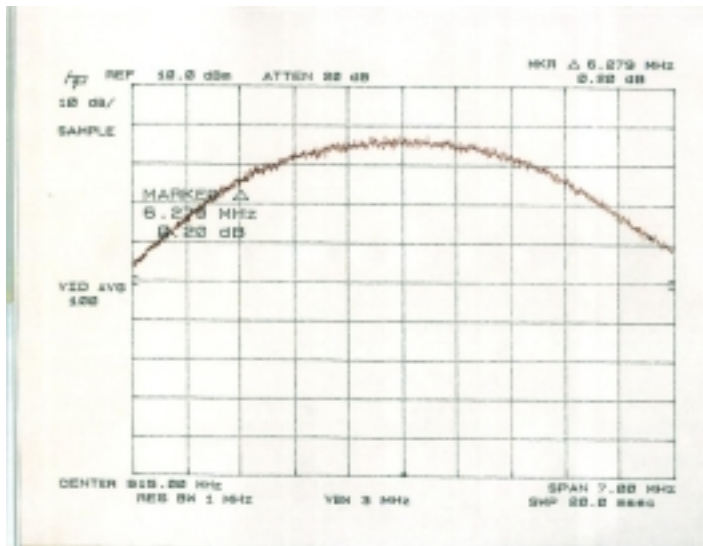
The following measurements were made using “method 1” as detailed in “UNII Band Measurement Procedures”, DA 02-2138. All measurements were made by the Electronics Test Centre.

1 Conducted Power

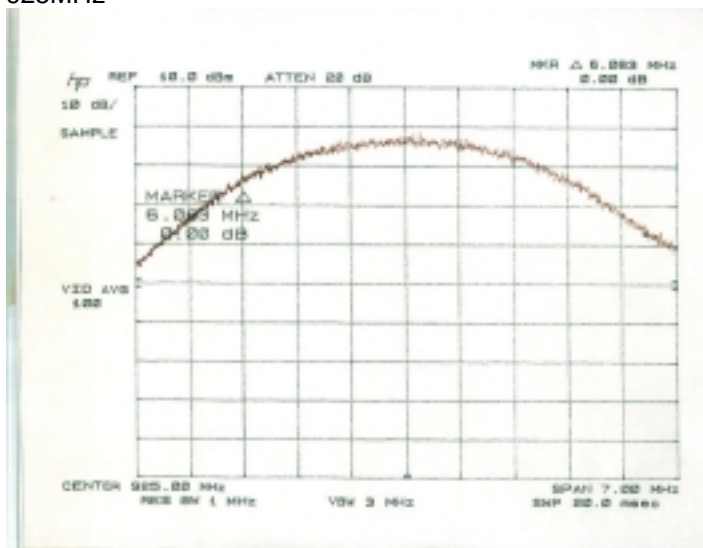
905MHz



915MHz



925MHz

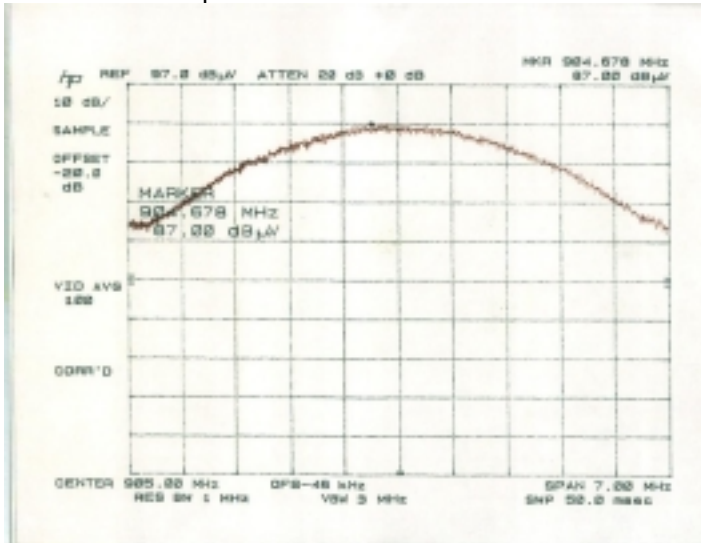


The power under the curve was integrated in 1MHz bins and the cable loss was added giving the following results:

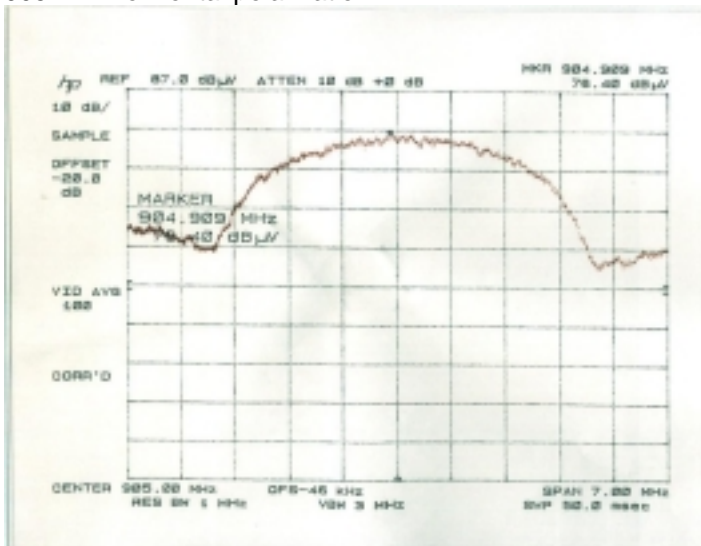
Fundamental Frequency (MHz)	Conducted power (dBm avg)
905	24.4
915	23.1
925	24.4

2 Radiated Power

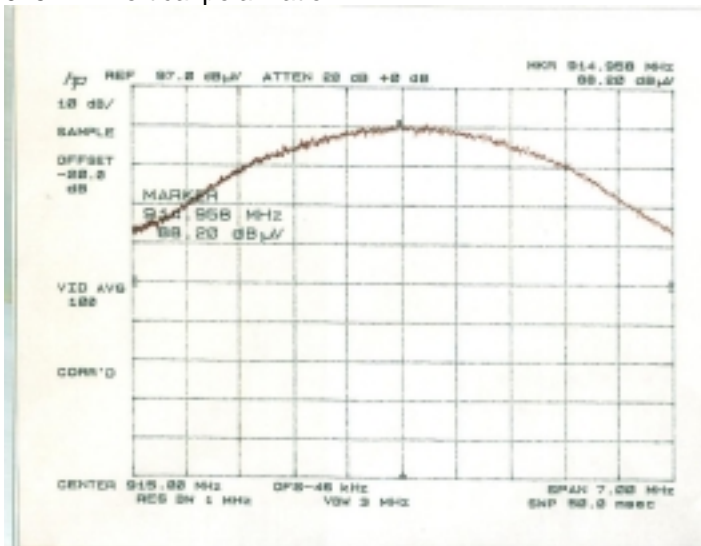
905MHz vertical polarization



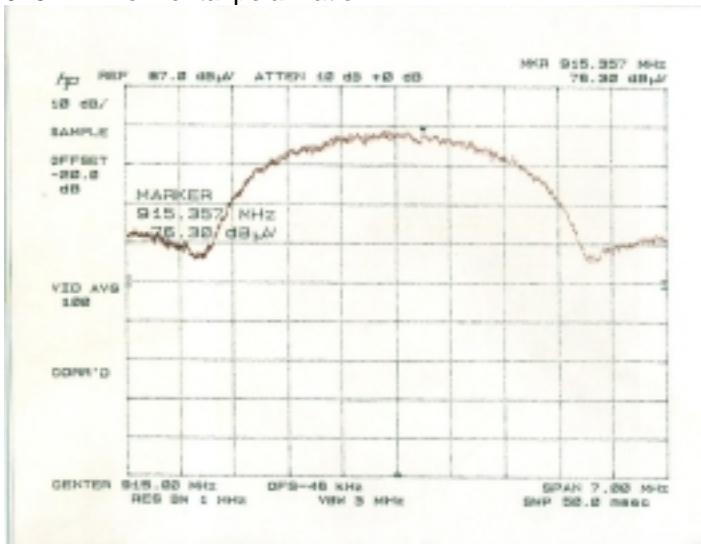
905MHz horizontal polarization



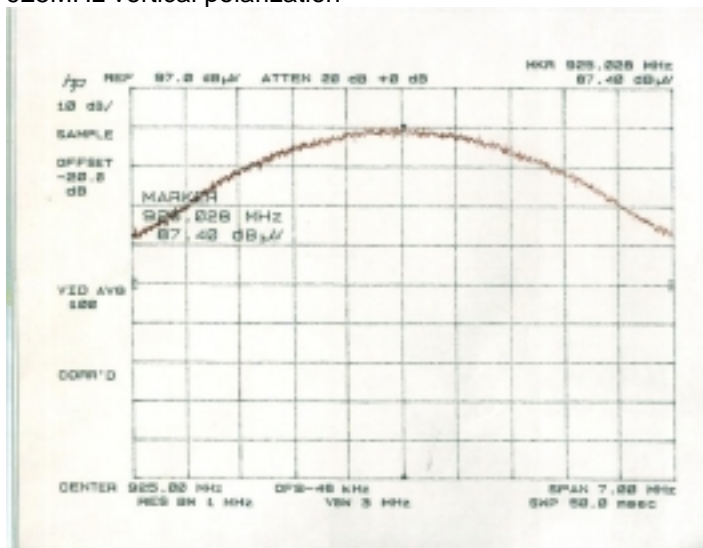
915MHz vertical polarization



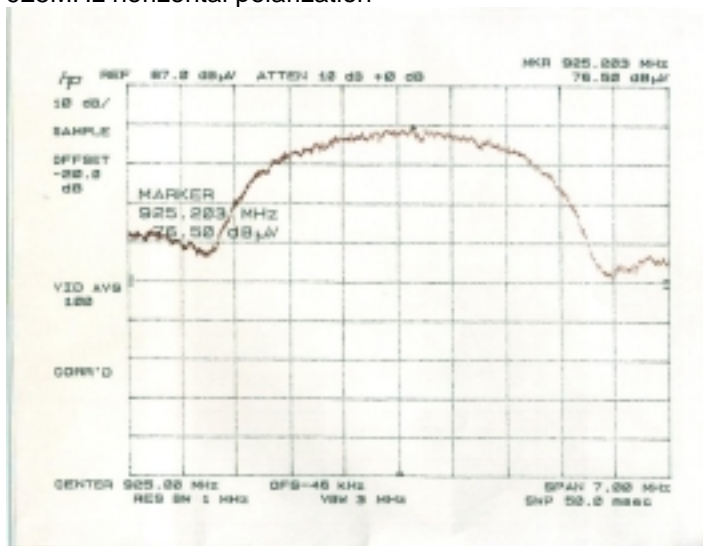
915MHz horizontal polarization



925MHz vertical polarization



925MHz horizontal polarization



The power under the curve was integrated in 1MHz bins and correction factors applied to account for cable loss and path loss giving the following results. Note that the power at the antenna port was calculated from the EIRP measurements assuming an antenna gain of 10.2dB in vertical polarization and 8.2dB in horizontal polarization.

Fundamental Frequency (MHz)	Power at antenna port Vertical pol. (dBm avg)	EIRP Vertical pol. (dBm avg)	Power at antenna port Horizontal pol. (dBm avg)	EIRP Horizontal pol. (dBm avg)
905	24.5	34.7	15.6	23.8
915	25	35.2	14.5	22.7
925	24.6	34.8	14.2	23.4

3 Power Spectral Density

The power spectral density was measured using PSD option #2. The settings were as follows:

RBW = 3kHz

VBW = 3MHz

Span = 1.5MHz

Sweep time = auto

Detector = positive peak

Averaging = 100

Fundamental frequency (MHz)	Power Spectral Density (dBm peak)
905	6.06
915	5.56
925	6.76