

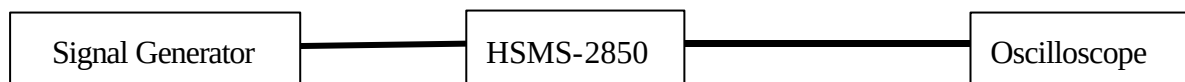
VII. Section 15.247(b): Power Output

1.1 Test Condition & Setup

A:



B:



1. The output of the transmitter terminated by Schottkey Detector Diode (Hewlett- Packard HSMS-2850)
2. The output of the Shocttkey Diode Detector connected to the vertical channel of an oscilloscope. The observed trace of the oscilloscope shall be recorded as "A".
3. The combination of the diode detector and the oscilloscope capable of faithfully reproducing the envelope of peaks and duty cycle of the transmitter output signal.
4. The transmitter replaced by a signal generator. The output frequency of the signal made equal to the center of the frequency range occupied by the transmitter and unmodulated.
5. The output of the signal generator raised to reach the peak of trace "A" named X.
6. The signal generator output level XmW is the transmitter output peak power. Recording the following.

1.2 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.
Oscilloscope	54600A	H P	3227A07030
Signal Generator	83711A	H P	3429A00434
Shocttkey Diode	HSMS-2850	Mini-Circuits	N/A
6dB Attenuator	BW-S6W2	Mini-Circuits	N/A

1.3 Test Result

Formula:

Signal generator + Antenna gain + |Cable loss| = Output peak power

Channel	Signal Generator	Antenna Gain	Cable Loss	Limit	Output peak power	
	dBm	dB <i>i</i>	dBm	(DTS)	dBm	mW
CH1	14.1	1.0	-1.16	100mW	15.26	33.57
CH6	12.8	1.0	-1.16	100mW	13.96	24.89
CH11	12.3	1.0	-2.01	100mW	14.31	26.98

Note:

The limit is vary according to the equipment class, listed below:

1. Digital Transmission System (DTS): 100mW
2. Spread Spectrum Transmitter (DSS): 1W

