

§ 15.247(b) Maximum Peak Output Power

Minimum Standard – The maximum peak output power of the transmitter shall not exceed 1 watt.

Res. Bandwidth = 3 MHz (10dB/div)
 Vid. BW = 3 MHz
 Span = 10 MHz
 Ref. Level -20 dBm
 Sweep 5 ms sec
 Attenuator 0 dB ext. pad
 Max. Power Peak + Atten = dBm ⇒ Watts

FREQ (MHz)	Base/Handset (B/H)	Channel	Power Output (dBm)	Power Output (mW)
2401.5	B	1	20.081	101.889
2434.5	B	12	20.111	102.594
2470.5	B	24	19.551	90.182
2401.5	H	1	17.241	52.981
2434.5	H	12	17.831	60.691
2470.5	H	24	17.961	62.535

Table 4. Output Power Measurements

REMARKS:

PASS

@ 2434.5 MHz F/S = Meter reading @ 3 m. in dBm + 107.0 + AFCL
 = -24.5 + 107.0 + 32.8 = 115.3 dBuV/M

The antenna gain is 2.14 dBi.

Conducted Power = $\frac{(FS * 3)^2}{(30)(1.64)} = 62.0 \text{ mW}$