

§ 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 \Rightarrow Watts

FREQ (MHz)	Base/Handset (B/H)	Channel	Power Output (dBm)	Power Output (mW)
2401.5	B	1	18.723	74.521
2434.5	B	12	19.483	88.772
2470.5	B	24	17.223	52.757

Table 4. Output Power Measurements

REMARKS:

PASS

@ 2434.5 MHz F/S = 84.06 + 32.8 (AFCL) = 116.86dBuV/M
The antenna gain is 2.14 dBi so the numeric gain is 1.64.
Conducted Power = $\frac{(FS * 3)^2}{(30)(1.64)} = 89.0 \text{ mW}$