

2.6 Peak power within the band 2400 – 2483.5 GHz per FCC Section 15.247(b)

Peak power within the band 2400-2483.5 GHz has been measured with a spectrum analyzer by connecting the spectrum analyzer directly via a short cable to the antenna output terminals or across the antenna leads on the PCB as specified by the manufacturer. The spectrum analyzer was set for a 50Ω impedance with the $VBW \geq RBW$ 6 dB bandwidth. The results of the measurements are given in Table 3 and Figure 3a through Figure 3c.

Fundamental Frequencies were measured at Low Channel, Mid Channel, and High Channel.

TABLE 3
PEAK POWER OUTPUT

Test Date: TTD
UST Project: 06-0159
Customer: Cirronet Corporation
Model: EM2420HP Zigbee Radio

| Frequency of Fundamental (MHz) | Measurement (dBm)* | Measurement (mW)* | FCC Limit (Watt) |
|--------------------------------|--------------------|-------------------|------------------|
| 2405.43 | 17.86 | 61.09 | 1.0 |
| 2444.30 | 17.67 | 58.48 | 1.0 |
| 2475.50 | 17.62 | 57.81 | 1.0 |

* Measurement includes 0.1 dB for cable loss

Tester

Signature: 

Name: Austin Thompson

Figure 3a.
Peak Power per FCC Section 15.247(b) Low Channel

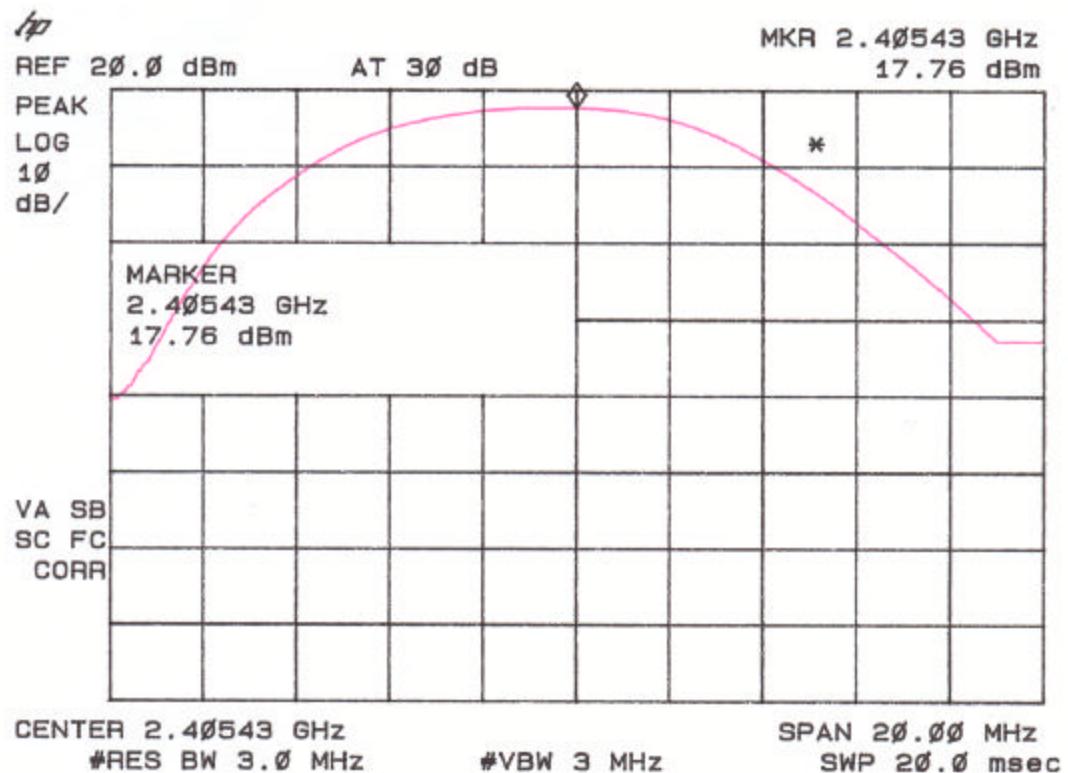


Figure 3b.
Peak Power per FCC Section 15.247(b) Mid Channel

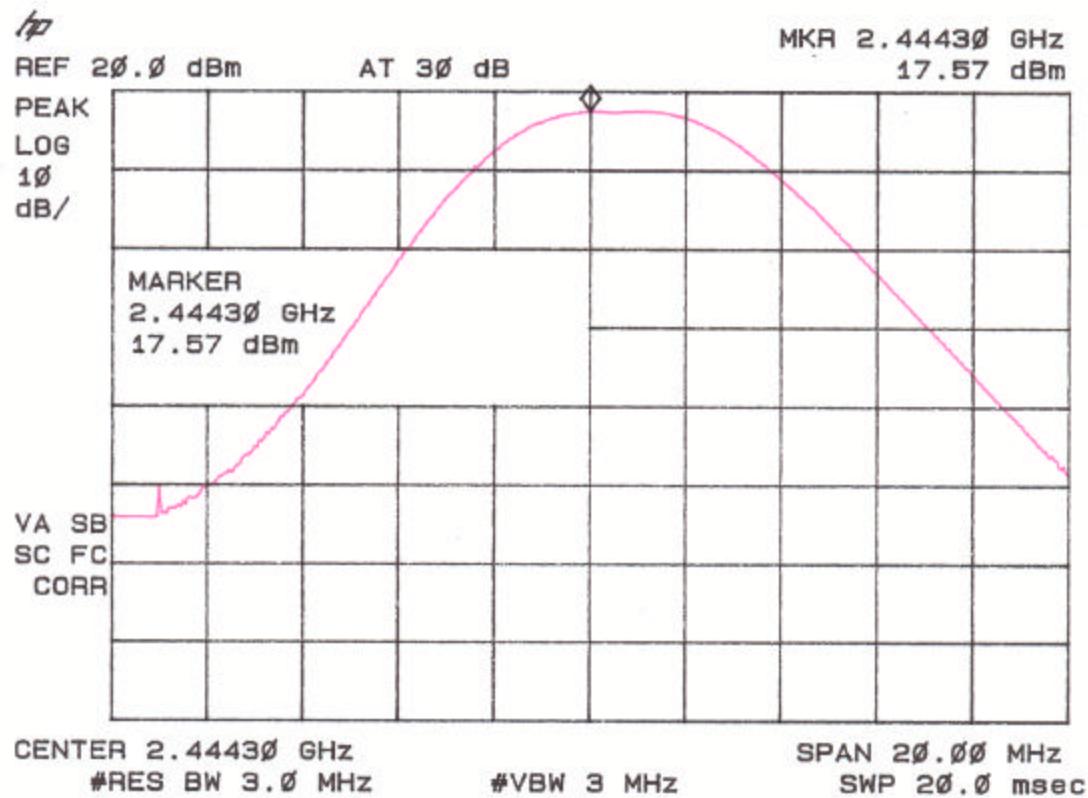


Figure 3c.
Peak Power per FCC Section 15.247(b) High Channel

