

6.6 Effective Radiated Power (ERP) – Pursuant 15.247(b)(3)

The ERP characteristic was measured while a radio was set to transmit a test mode signal at the maximum rated output power (+/- 5%) and was vertically mounted on a non-conducting platform/turntable in a spherical RF Anechoic Chamber. The power at the receive antenna was recorded on a power meter with the unit rotating about the z-axis. The azimuth of receiving antenna is rotated 180 degrees while the UUT is rotating producing a spiral antenna measurement. The power recorded from the meter is then corrected to compensate for path loss, cable losses, and amplifier and antenna gains at the given frequencies resulting in absolute radiated power.

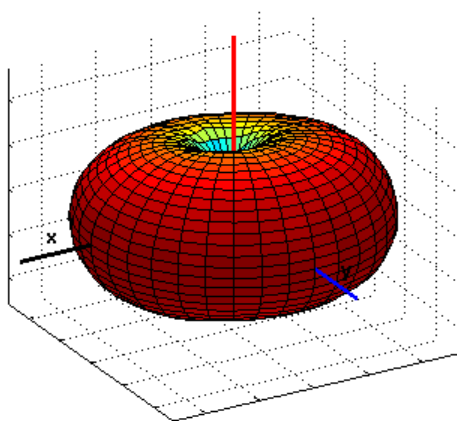


Figure 6-100 800MHz Radiation Pattern

ERP=25.58dBm
 $\Theta = 107^\circ$
 $\Phi = 177.95$

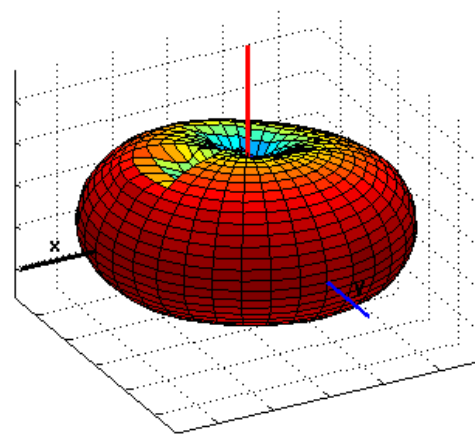


Figure 6-101 900MHz Radiation Pattern

ERP=25.27dBm
 $\Theta = 98.41^\circ$
 $\Phi = 6.10$