

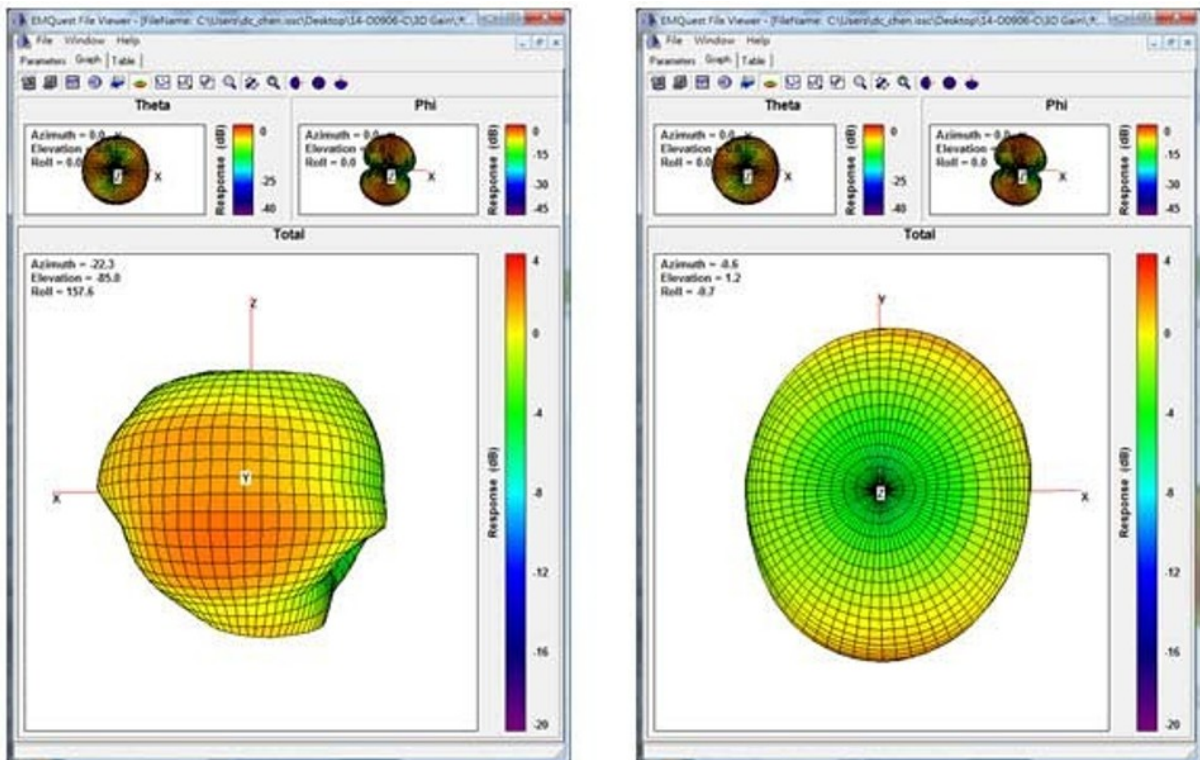
7. PCB Antenna Information

The BTM983H module is integrated with a PCB antenna. This chapter provides the radiation pattern, its orientation, and characteristics.

7.1 Antenna Radiation Pattern

The following figure illustrates the 3D radiation pattern of the PCB antenna at 2438 MHz.

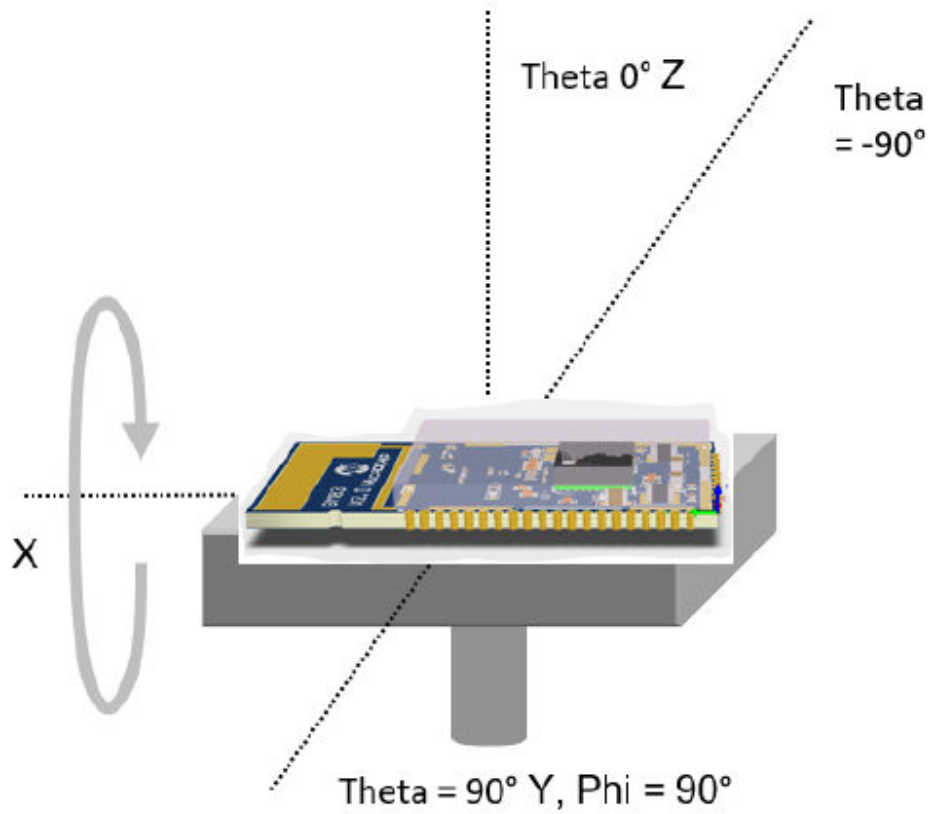
Figure 7-1. PCB Antenna 3D Radiation Pattern At 2438 MHz⁽¹⁾



1. The preceding figure illustrates the typical radiation pattern with BTM983H module on the 45 mm x 45 mm BTM983H Carrier Board.

The following figure illustrates the module orientation for antenna radiation pattern
Figure 7-2. Module Orientation for Radiation Pattern

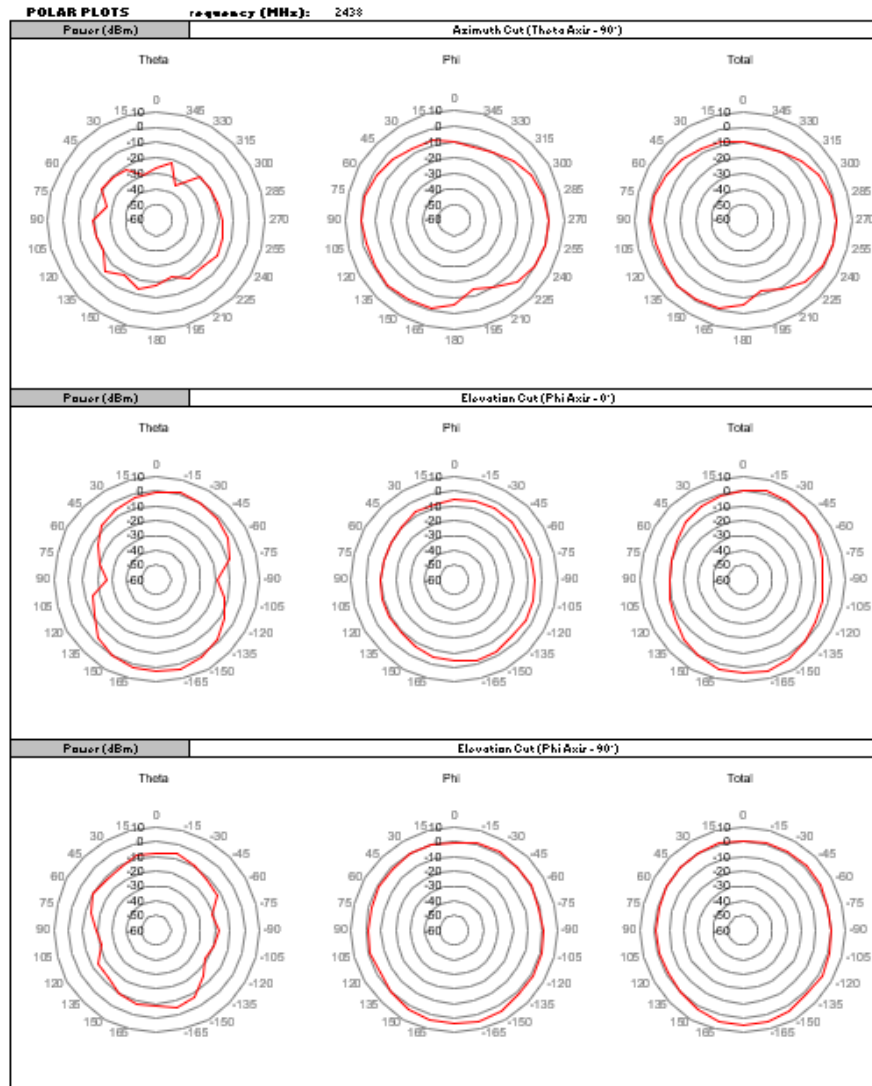
Elevation Cut (Phi Axis = 90°)



BTM983H

PCB Antenna Information

Figure 7-3. Polar Plots⁽¹⁾



1. The preceding figure illustrates the typical radiation pattern with BTM983H module on the 45 mm x 45 mm BTM983H Carrier Board.

The following table provides the characteristics of PCB antenna with BTM983H Module mounted on BTM983H Carrier Board, plugged into BTM983H EVB.

Table 7-1. BTM983H PCB Antenna Characteristics

Parameter	Value
Frequency	2400 MHz to 2480 MHz
Peak Gain	3.5 dBi
Efficiency	80%