Bluetooth antenna of PCB on-board specification

1，Index

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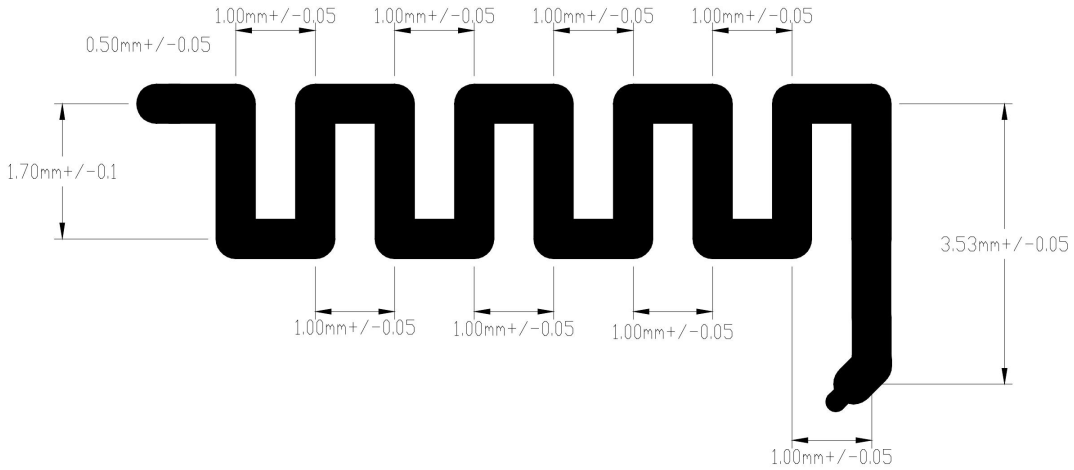
2，Spec Drawing



Ground copper

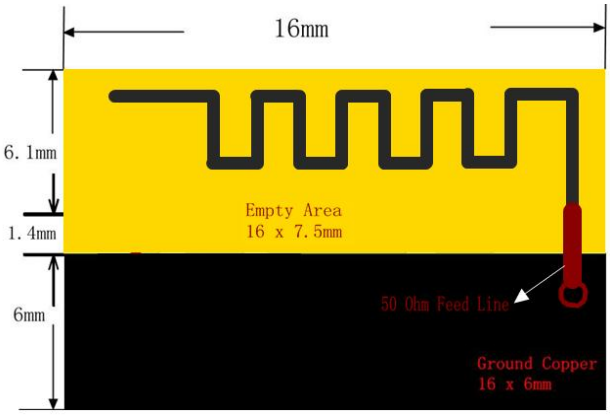
3，Specification

Product Number: 2.4GHZ coil antenna
Sample Photo:

A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
S.W.R.	<=2.0
Gain	2.0 dBi
Efficiency	~ 50%
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Gold-plated copper
C. Environmental	
Operation Temperature	- 40℃ ~ + 85℃

Storage Temperature	- 40℃ ~ + 105℃

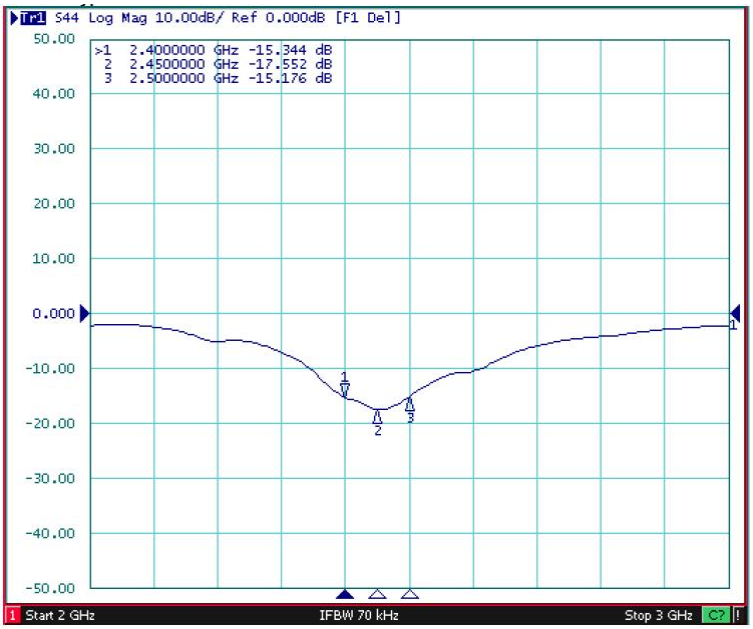
4，Antenna On Test Board



FR4 Thickness 0.8mm

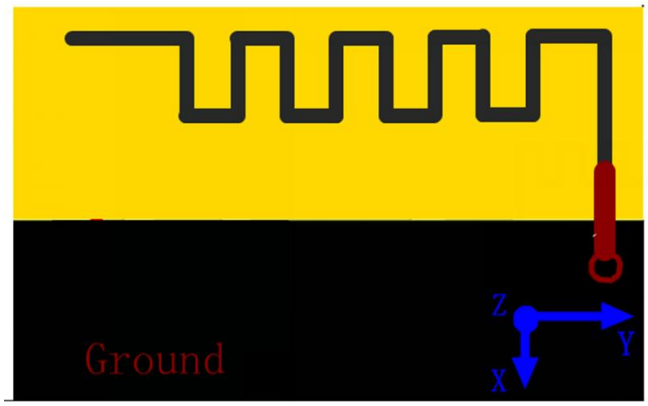
（此天线样式仅示意，实际天线样式以尺寸图为准）

5， Return Loss

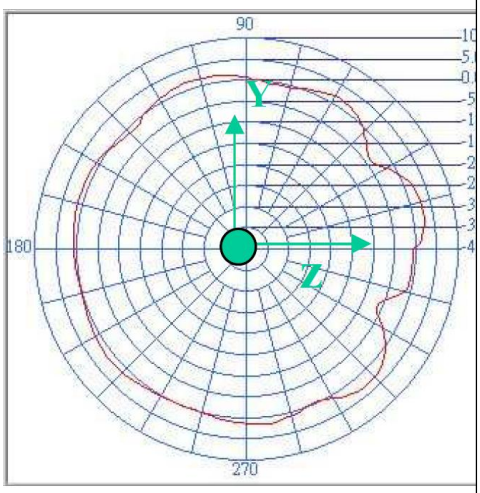
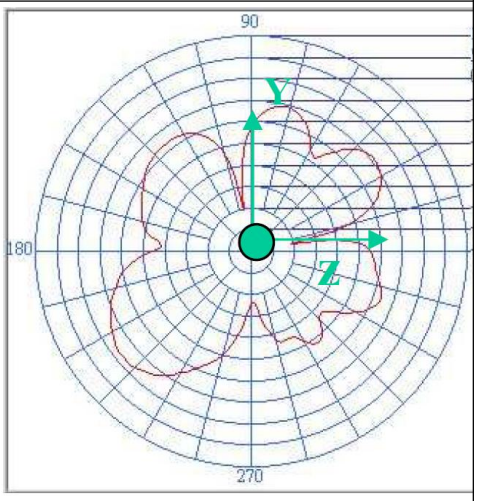
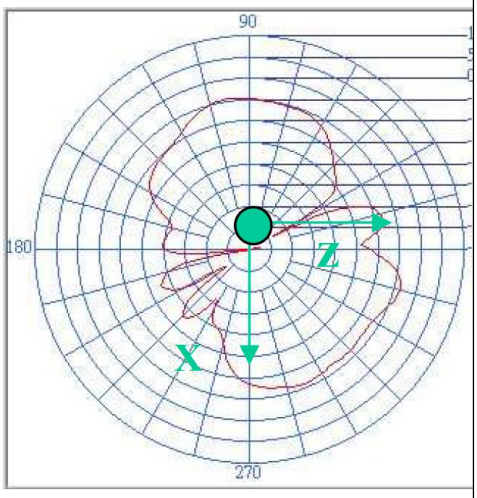
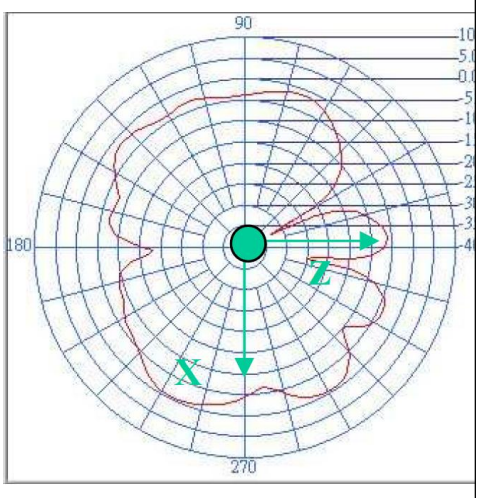


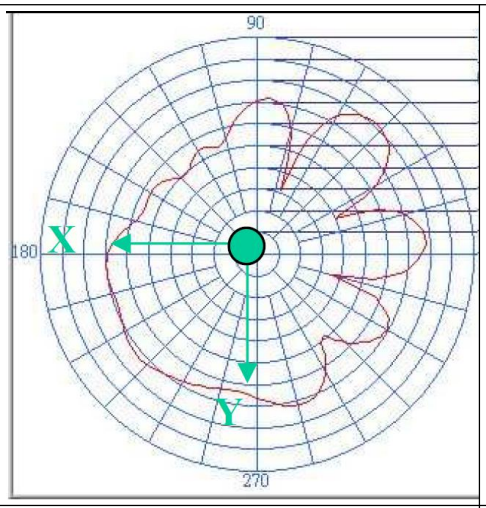
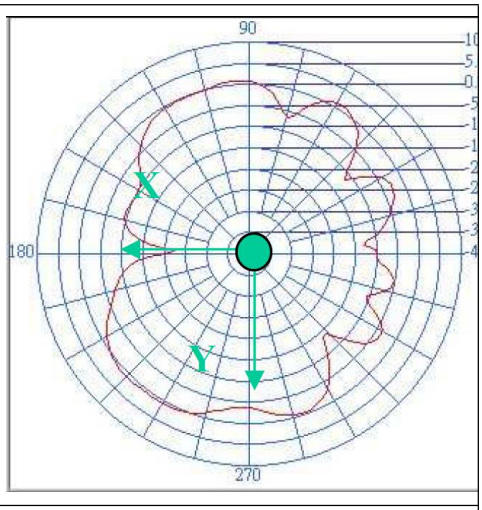
6，Radiation Pattern

Radiation Pattern and Gain were dependent on measurement board design. The specification of coil antenna was measur ed based on the PCB size and installation position as shown in the below figure Test Board.



（此天线样式仅示意，实际天线样式以尺寸图为准）

	Vertical	**Horizontal**
Y - Z Plane Average Gain=1.19 dBi		
	Peak Gain = 2 dBi Average Gain = 0.75 dBi	Peak Gain= -1.33 dBi Average Gain=-8.7 dBi
X - Z Plane Average Gain=-2.91dBi		
	Peak Gain= -3.71 dBi Average Gain= -8.76dBi	Peak Gain= -0.29 dBi Average Gain= -4.19dBi

X - Y Plane Average Gain=-0.95 dBi		
	Peak Gain= 0.77 dBi Average Gain= -5.86dBi	Peak Gain= 1.35 dBi Average Gain= -2.62 dBi