

Bluetooth Antenna Specification

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一、天线简介

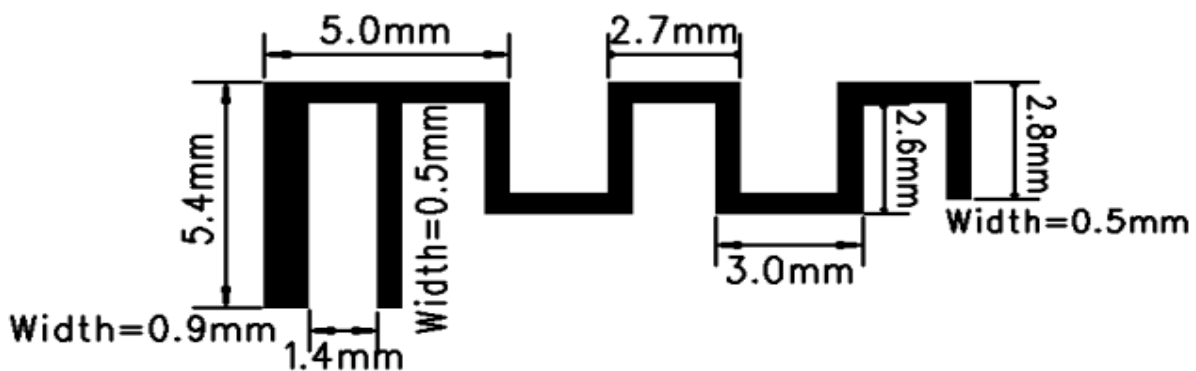
Antenna Introduction

蓝牙模块天线直接采用做在 PCB 板上的方式。

The Bluetooth module antenna is directly mounted on the PCB board.

二、天线外形

Antenna appearance



Actual Size

三、天线参数antenna parameters

蓝牙天线工作频率在 2402-2480MHz, 在此频段产生谐振。下表为天线的主要参数。The working frequency of Bluetooth antenna is between 2402-2480MHz, where resonance occurs. The following table shows the main parameters of the antenna.

蓝牙内置天线Bluetooth built-in antenna	
Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	1.08443dBi
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin
Model	2.4GHz PCB ANT

四、天线增益检测报告

Antenna Test Report

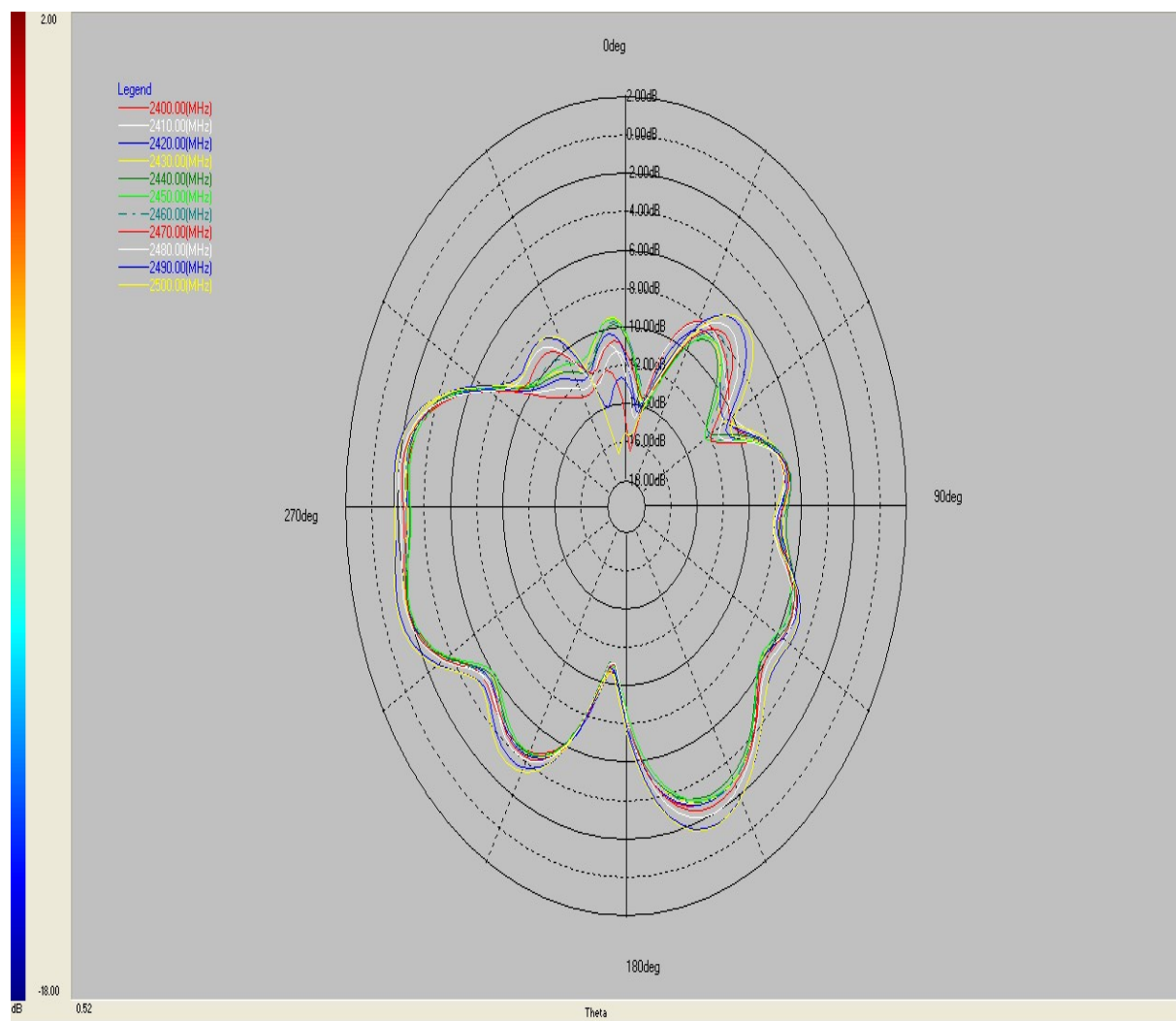
Spectrum Detector:
Test By:
Test Result:
Modulation:

PK
Andy
PASS
GFSK

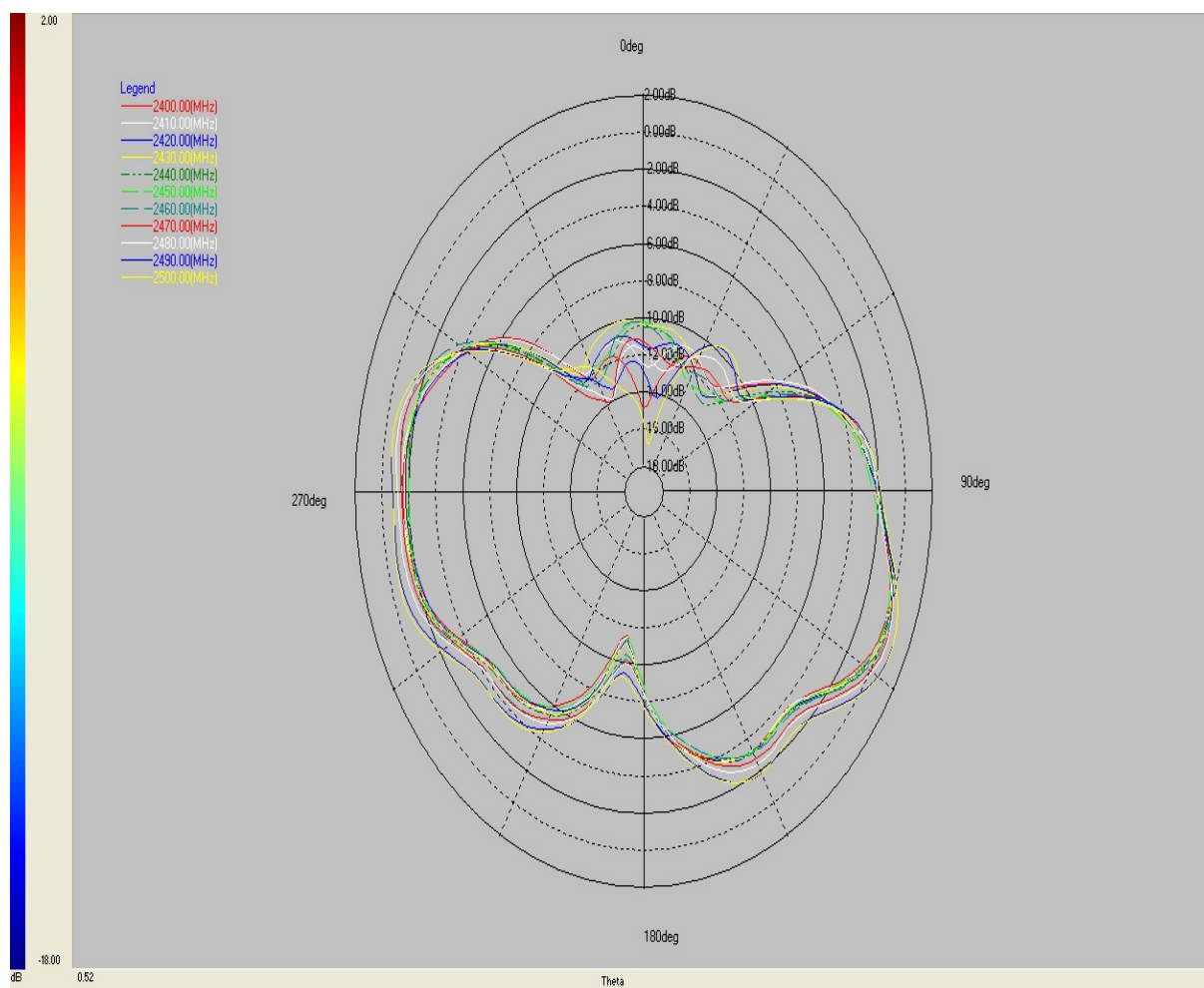
Test Date : June 8, 2013
Temperature : 28°C
Humidity : 55 %

Frequency VNA (MHz)	E Total. dB(dB)
2400MHz	0.0403503
2410MHz	0.0886264
2420MHz	0.267381
2430MHz	0.193012
2440MHz	0.26366
2450MHz	0.0723139
2460MHz	0.36895
2470MHz	0.551525
2480MHz	0.640702
2490MHz	1.05232
2500MHz	1.08443

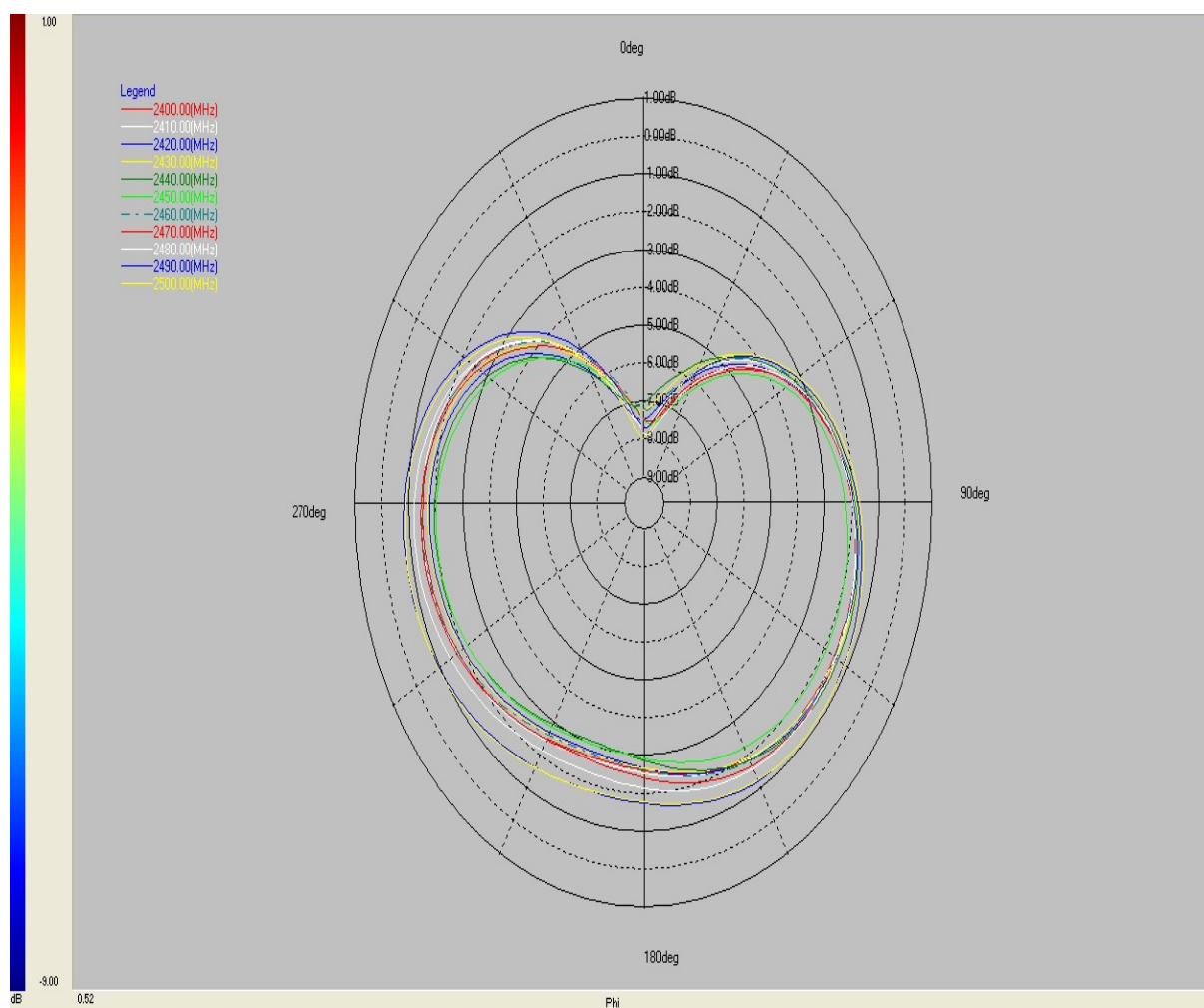
方向图: Direction diagram:



PHI 0 度



PHI 90 度



THETA 90 度

驻波比图: Standing Wave Ratio Diagram:

