

Antenna specification

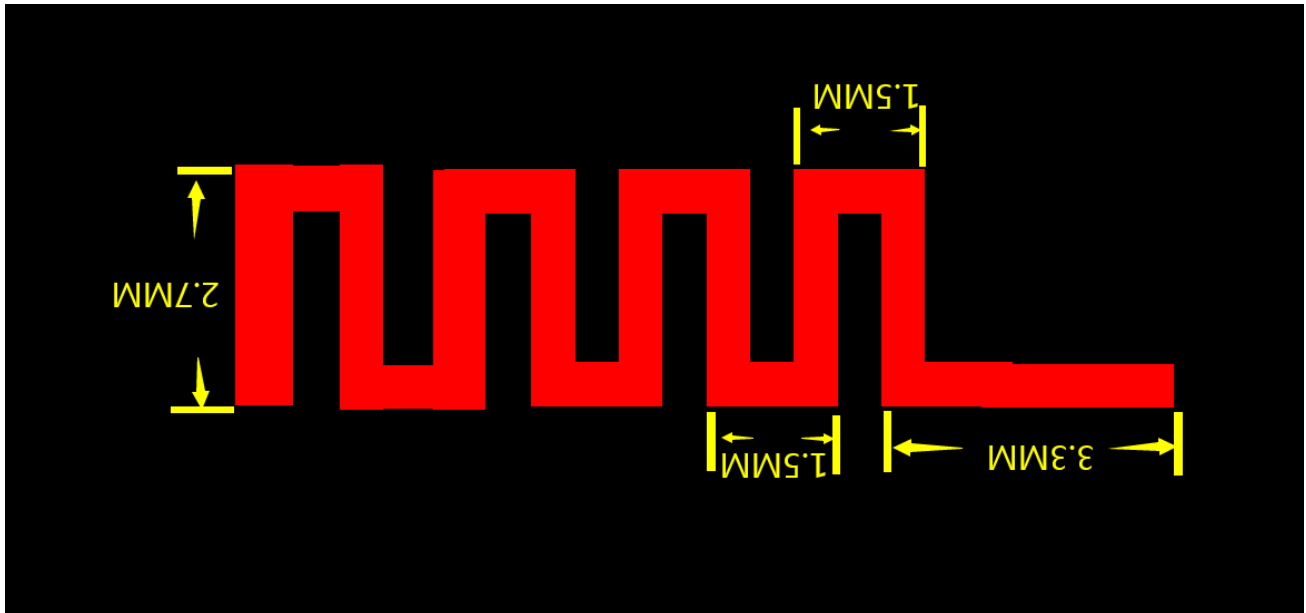
1、Antenna introduction

The Bluetooth module antenna is directly used on the PCB.

Manufacturer : Lenze Design Inc.

Address : 7th Floor, Ching Po Building, Shenzhen Special Zone Press Group, Futian District, Shenzhen.

2、Antenna shape



3、Antenna parameter

The Bluetooth antenna operates at 2402-2480 MHz and generates resonance in this band. The table below shows the main parameters of the antenna.

Frequency(MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.95
Impedance	50 Ohm Nominal
Return Loss	-15 dB Max
Radiation	Omni-directional
Gain (Peak)	-3 dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin

4、Antenna gain report

Spectrum Detector: PK

Test Date : Feb 18, 2019

Test By: Mark

Temperature : 25°C

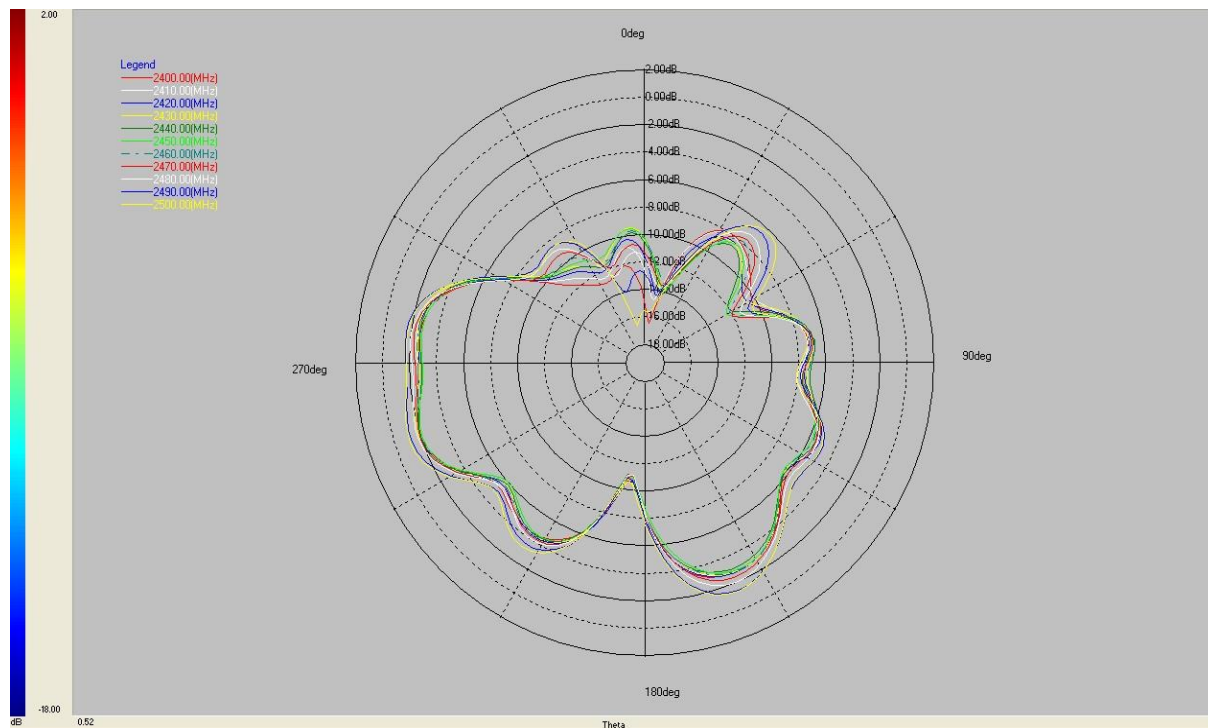
Test Result: PASS

Humidity : 52 %

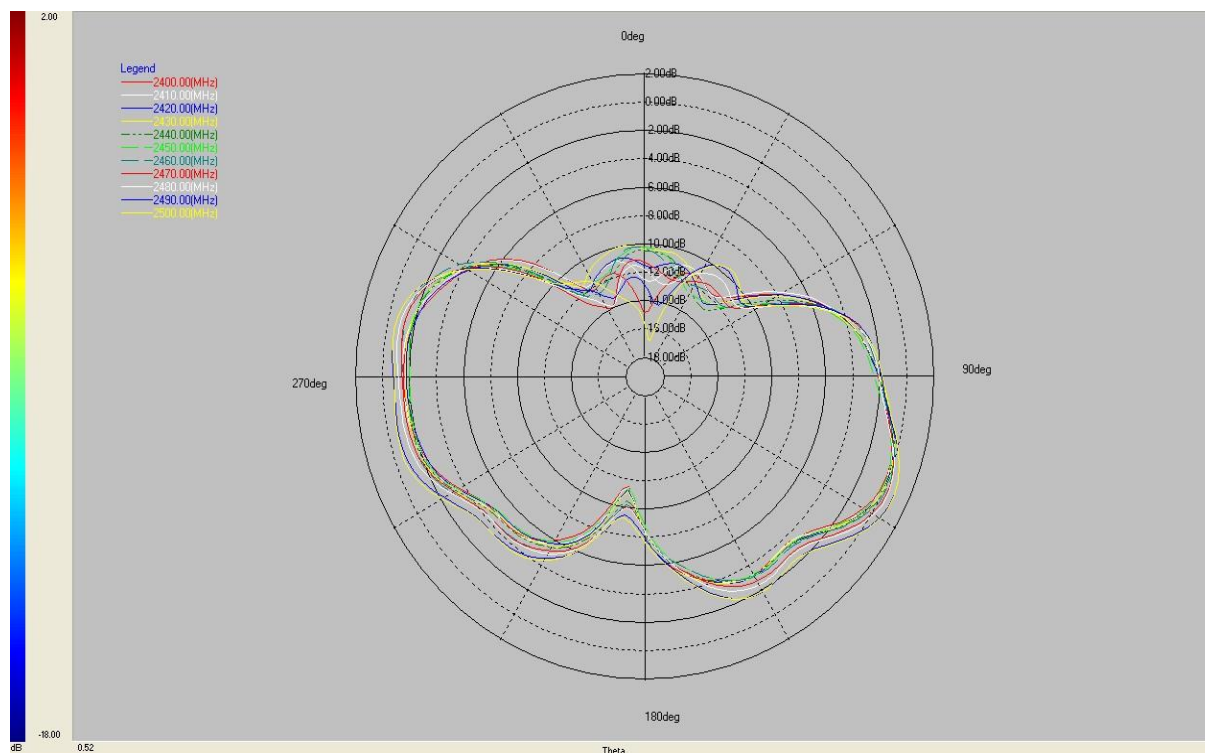
Modulation: GFSK

Frequency VNA Separation Read Separation Limit(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

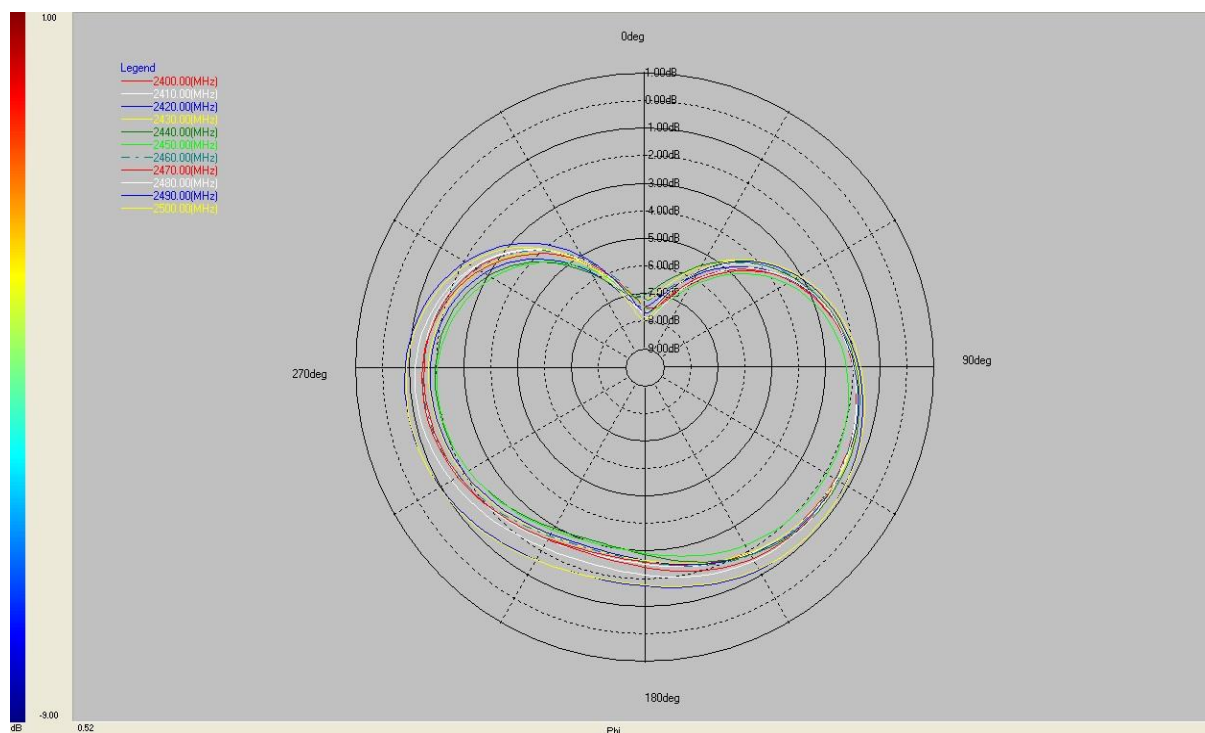
Direction map:



PHI 0°



PHI 90°



THETA 90°