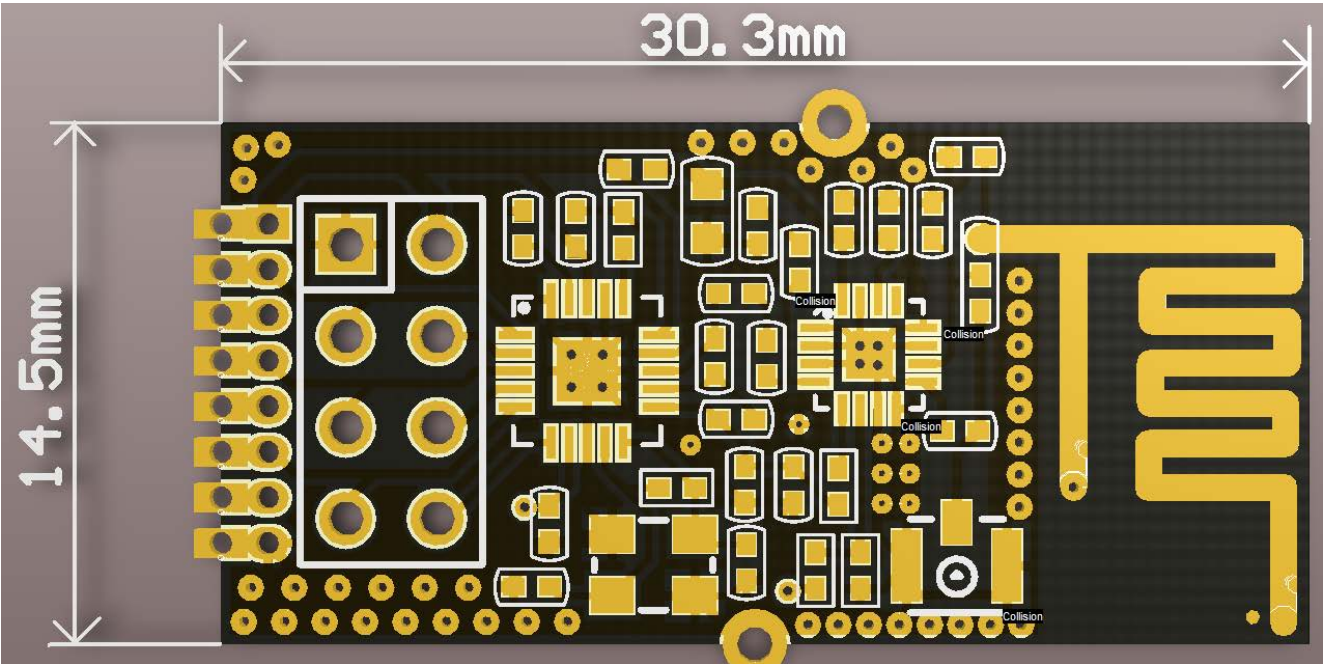


F-type antenna specification

1. Antenna introduction

The Bluetooth antenna is directly used on the PCB board.

2. Antenna shape



3. Antenna parameters

The antenna operates at 2400–2500MHz, and resonates in this band.
The following table shows the main parameters of the antenna.

Bluetooth built-in antenna	
Frequency (MHz)	2400 ~ 2500 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max

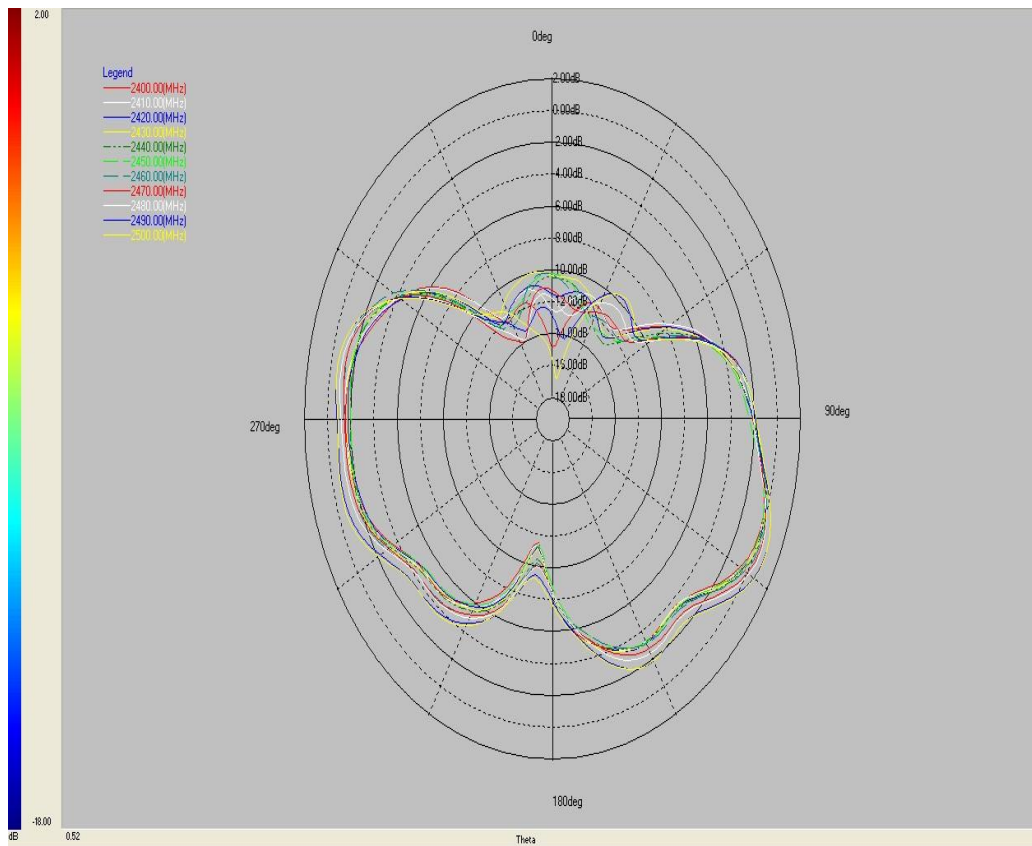
Radiation	Omni-directional
Gain (Peak)	0dBi
Polarization	Linear, Vertical
Connector	Tin

4. Antenna gain detection report

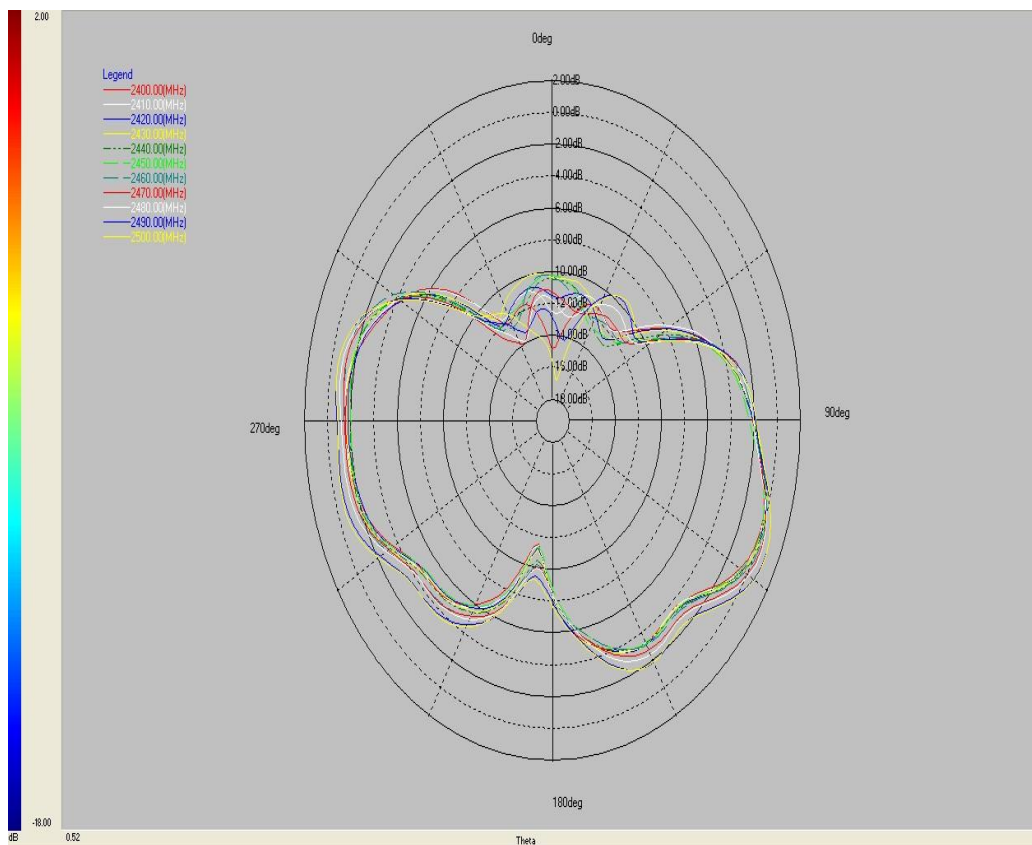
Spectrum Detector:	PK	Test Date :	June 8, 2023
Test By:	Andy	Temperature :	28°C
Test Result:	PASS	Humidity :	55 %
Modulation:	GFSK		

Frequency VNA (MHz)	E Total. dBI
2400MHz	-0.040350
2410MHz	-0.088626
2420MHz	-0.267381
2430MHz	-0.193012
2440MHz	-0.006366
2450MHz	-0.072313
2460MHz	-0.036895
2470MHz	-0.551525
2480MHz	-0.640702
2490MHz	-0.005232
2500MHz	-0.008443

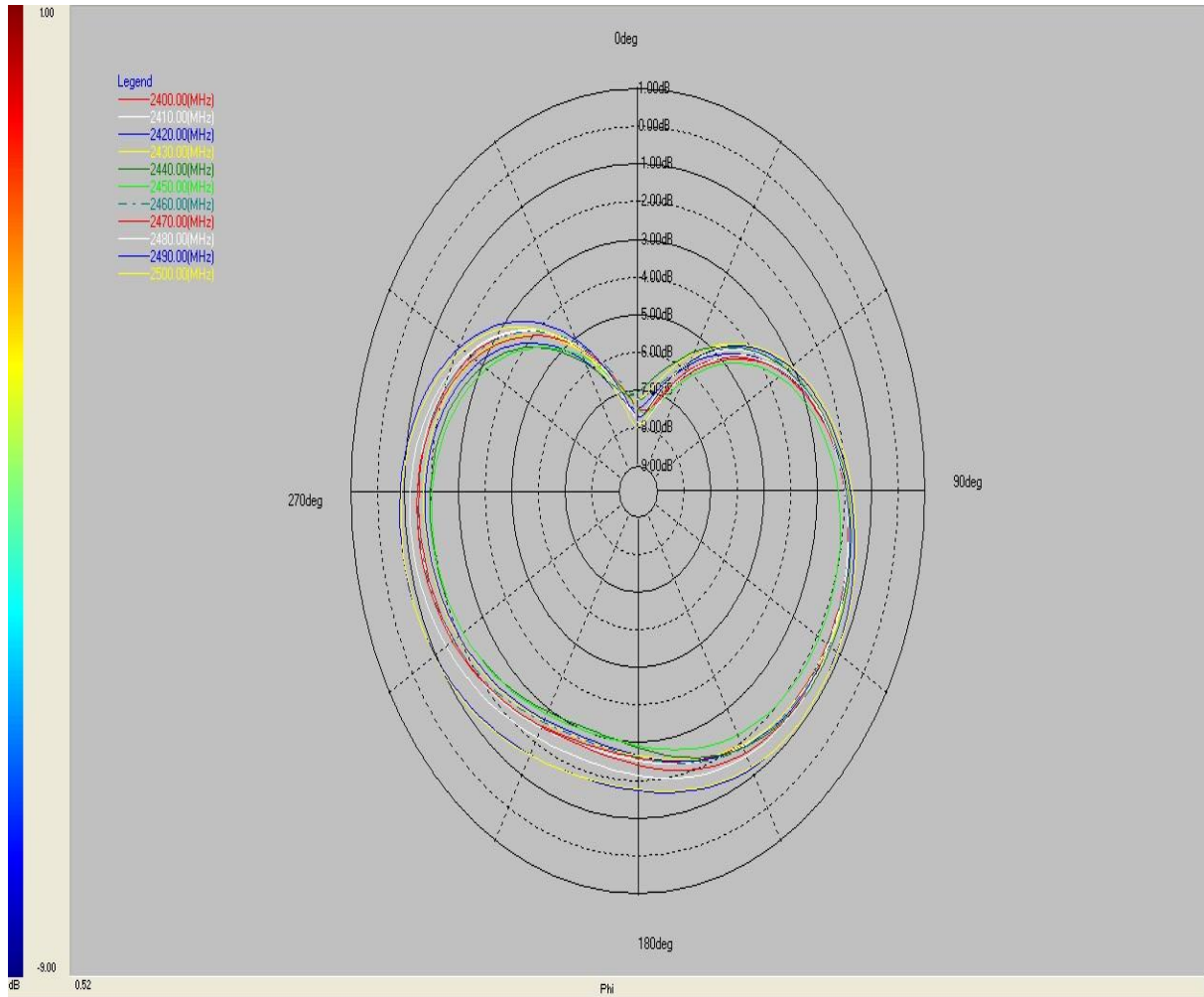
Direction map:



PHI 0 °



PHI 90 °



THETA 90 °

Standing wave ratio chart:

