

Antenna specification

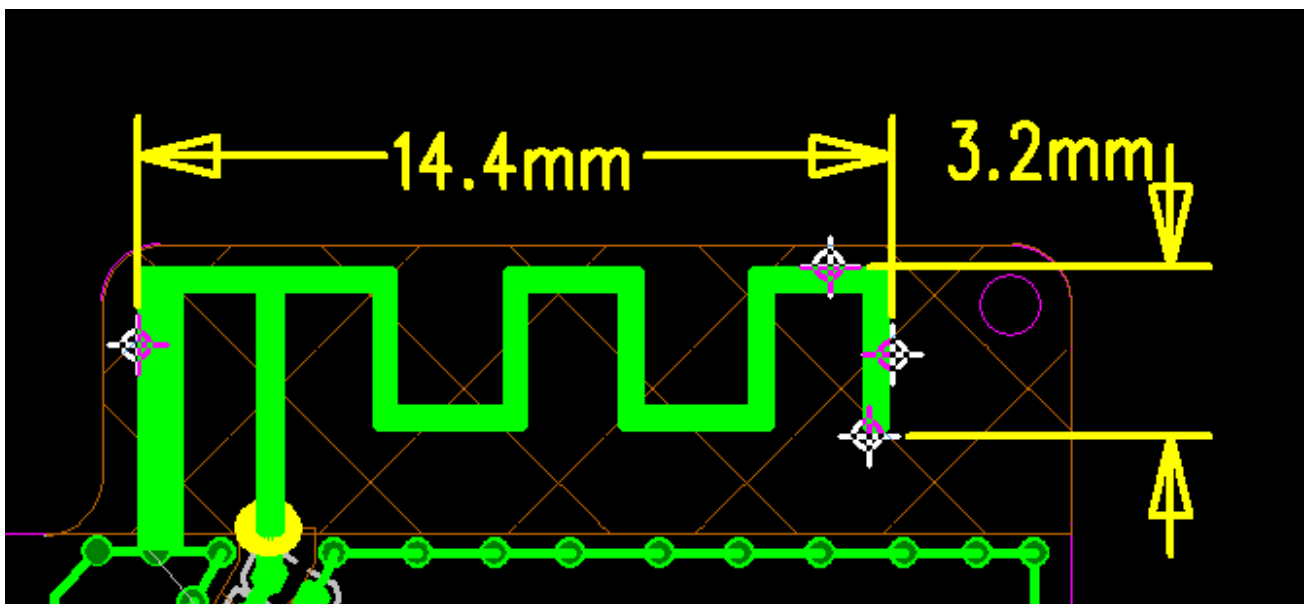
1、Antenna introduction

The Bluetooth module antenna is directly used on the PCB.

Manufacturer: shenzhen dibet technology co.,LTD

Address: Room 101, 1st Floor, Block D, No. 1 Chuangjin, Block 28, Dalang Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong

2、Antenna shape



3、Antenna parameter

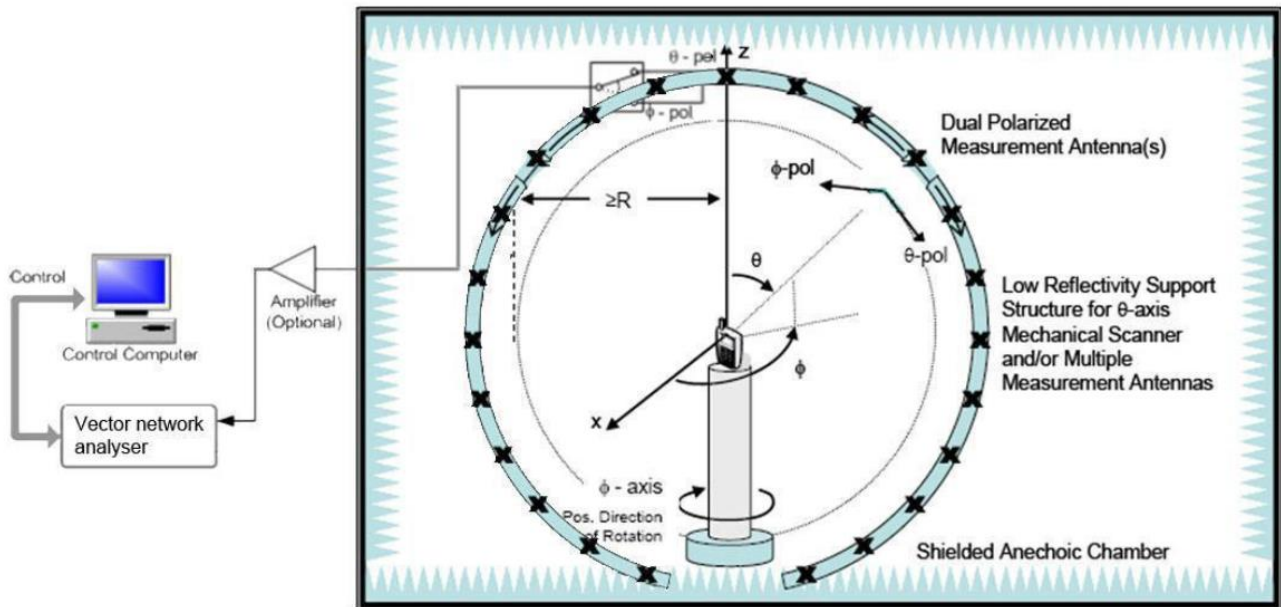
The Bluetooth antenna operates at 2402-2480 MHz and generates resonance in this band. The table below shows the main parameters of the antenna.

Frequency (MHz)	2400 ~ 2500 MHz
VSWR	≤ 1.95
Impedance	50 Ohm Nominal
Return Loss	-15 dB Max
Radiation	Omni-directional
Gain (Peak)	0.77dBi
Polarization	Linear, Vertical
Admitted Power	1MW
Connector	Tin

4、 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Vector Network Analyzer	Agilent	E5071C	MY46103472	2024.09.07	2025.09.06
5*5*5 Full Anechoic Chamber	SATIMO	5*5*5	N/A	2024.09.05	2025.09.04
SG24 Multi-probe Antenna Measurement System	SATIMO	SG24-L	1101855-0001	2024.10.25	2025.10.24

5、 Test Setup

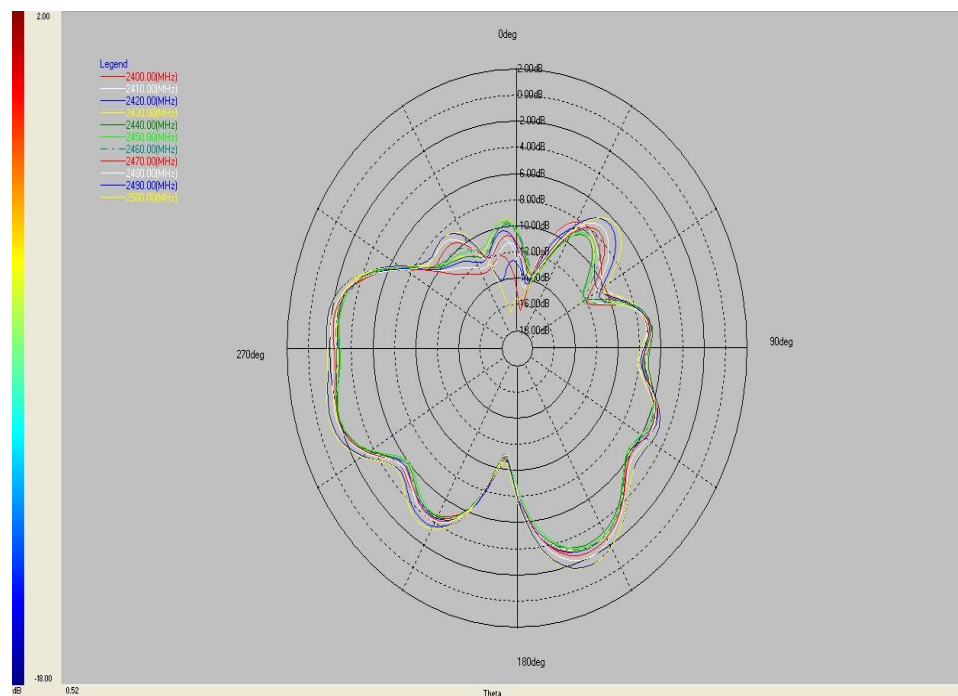


6、Antenna gain report

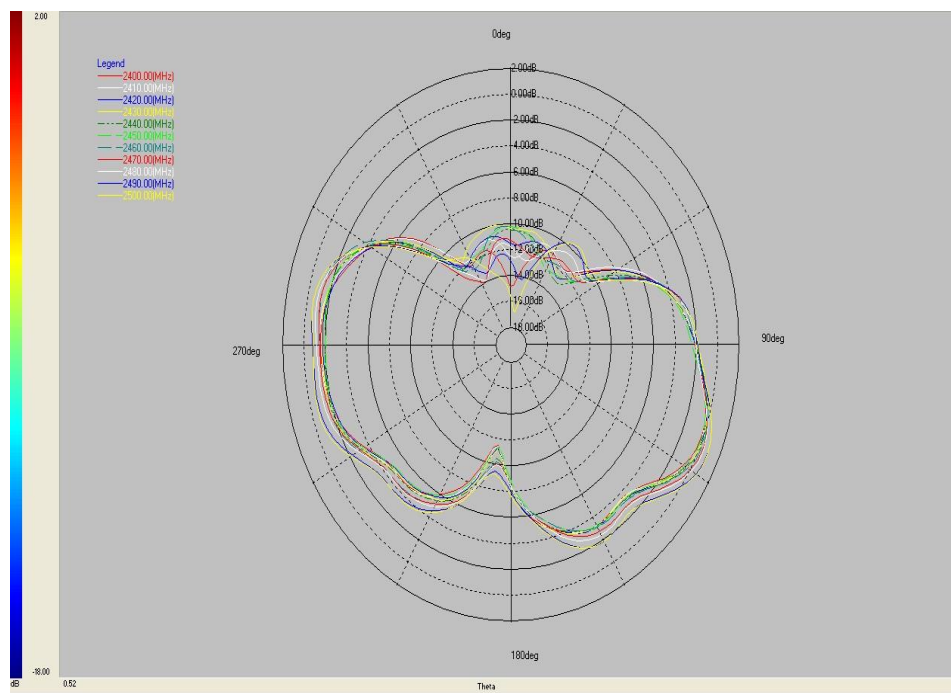
Spectrum Detector:	PK	Test Date :	Feb 18, 2022
Test By:	Mark	Temperature :	25°C
Test Result:	PASS	Humidity :	52 %
Modulation:	GFSK		

Frequency (MHz)	E Total. dB(dB)	Gain.dBi (Peak)
2400MHz	0.04	-0.47
2410MHz	0.08	-0.42
2420MHz	0.26	-0.20
2430MHz	0.19	-0.15
2440MHz	0.26	0.28
2450MHz	0.07	0.77
2460MHz	0.36	0.51
2470MHz	0.55	-0.38
2480MHz	0.64	-0.93
2490MHz	1.05	-1.52
2500MHz	1.08	-1.68

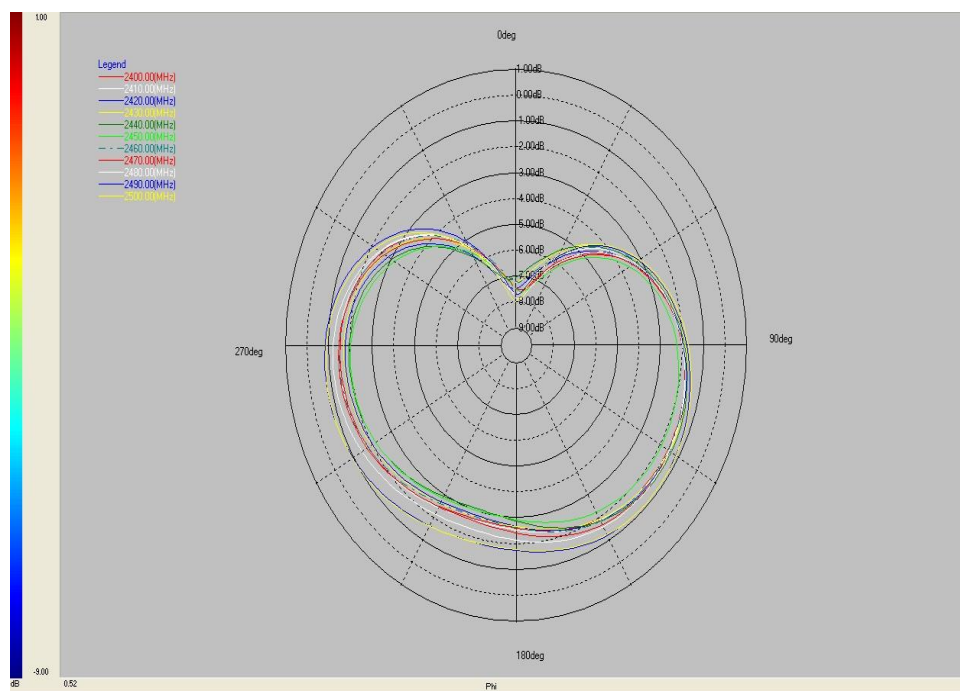
Direction map:



PHI 0°



PHI 90°



THETA 90°

3DPattern

