
Bluetooth antenna specification

一、Antenna introduction

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

二、Antenna configuration



三、Antenna parameter

The Bluetooth antenna operates at 2402–2480 MHz, and resonates in this band. The following table shows the main parameters of the antenna.

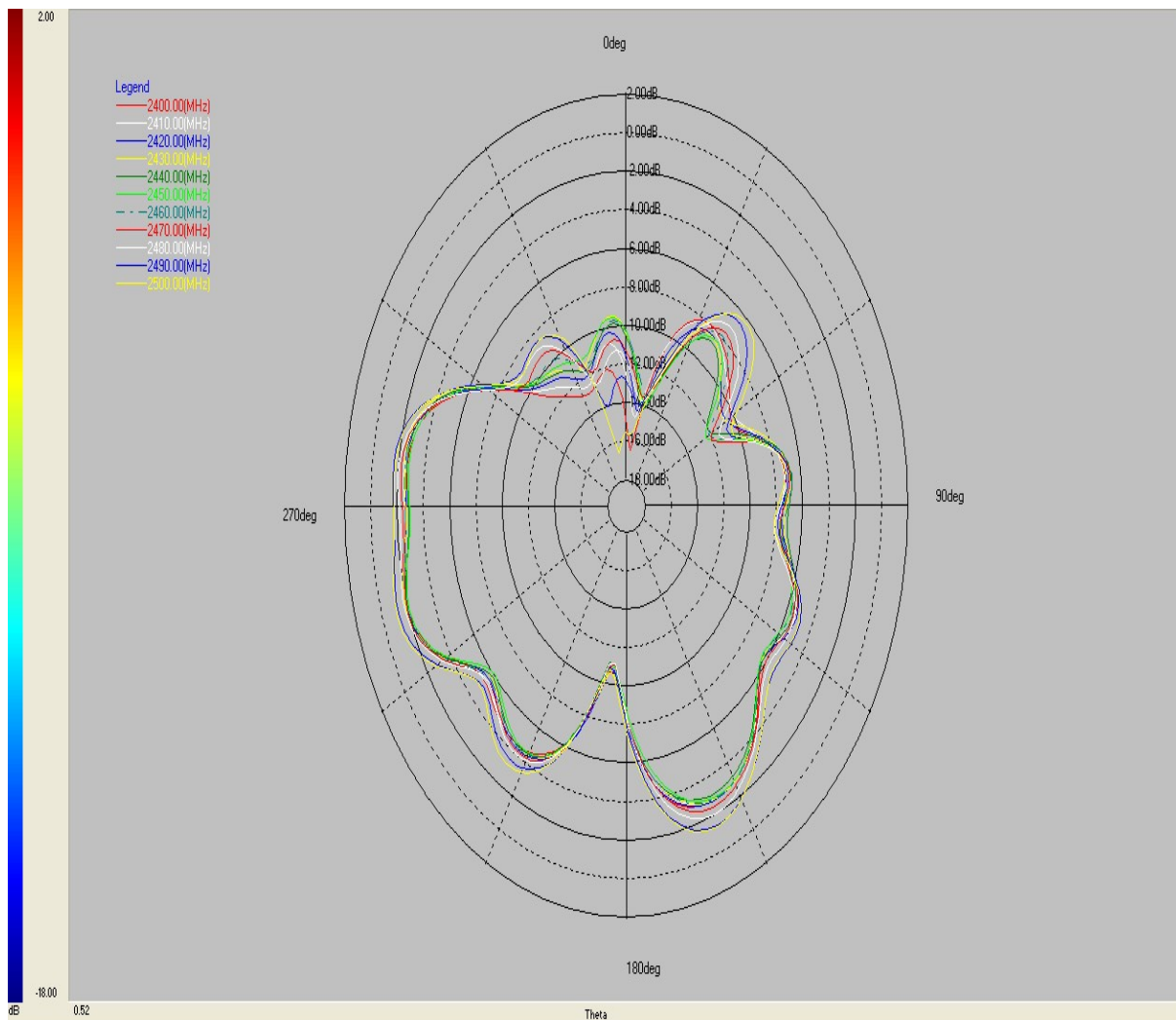
PCB ANT	
Frequency (MHz)	2402 ~ 2480 MHz
VSWR	≤ 1.92
Impedance	50 Ohm Nominal
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	1.08443dBi
Polarization	Linear, Vertical
Admitted Power	2W
Connector	Tin

四、Antenna gain detection report

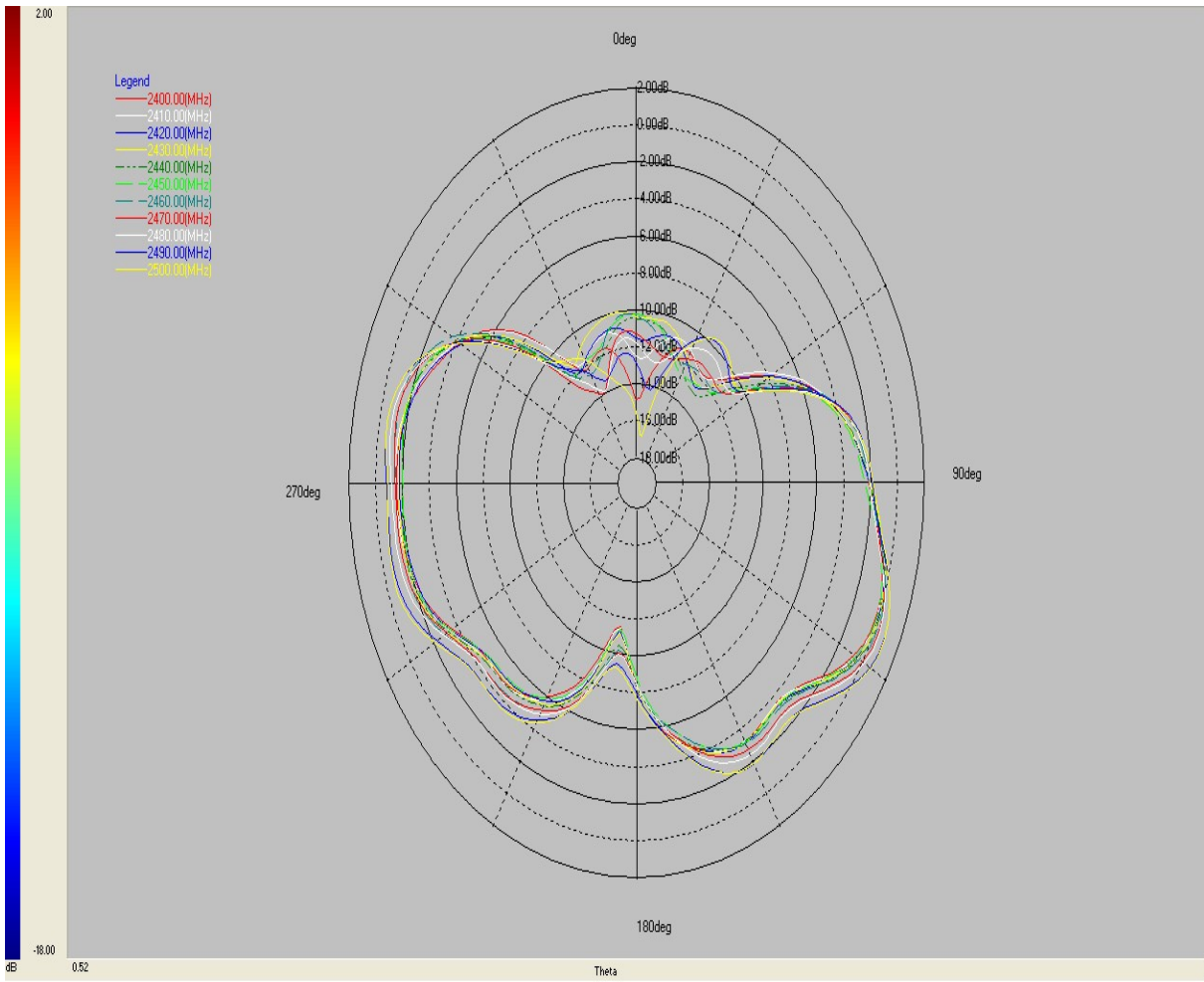
Spectrum Detector: PK Test Date : June 8, 2013
Test By: Andy Temperature : 28°C
Test Result: PASS Humidity : 55 %
Modulation: GFSK

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

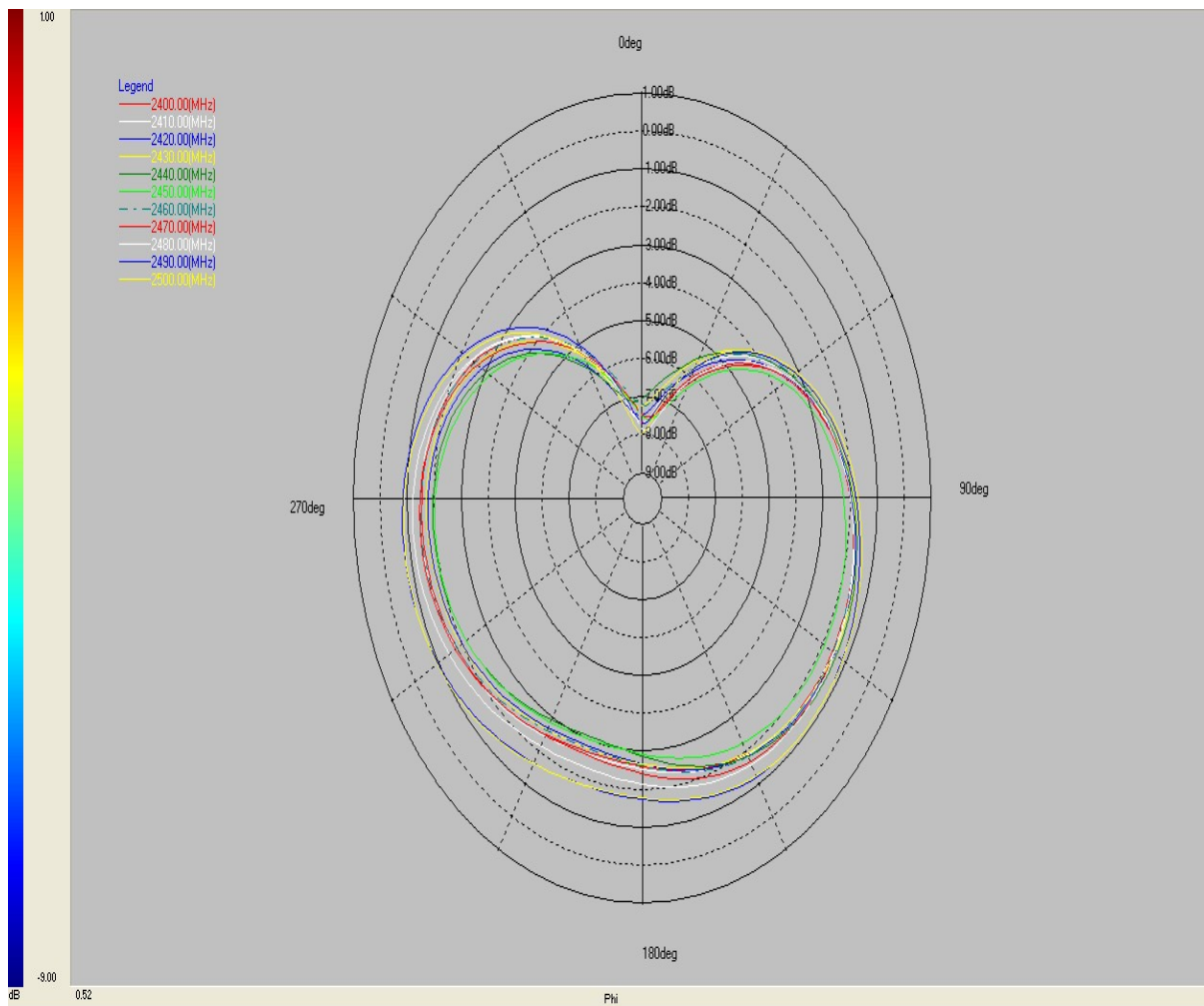
Direction map:



PHI 0 度

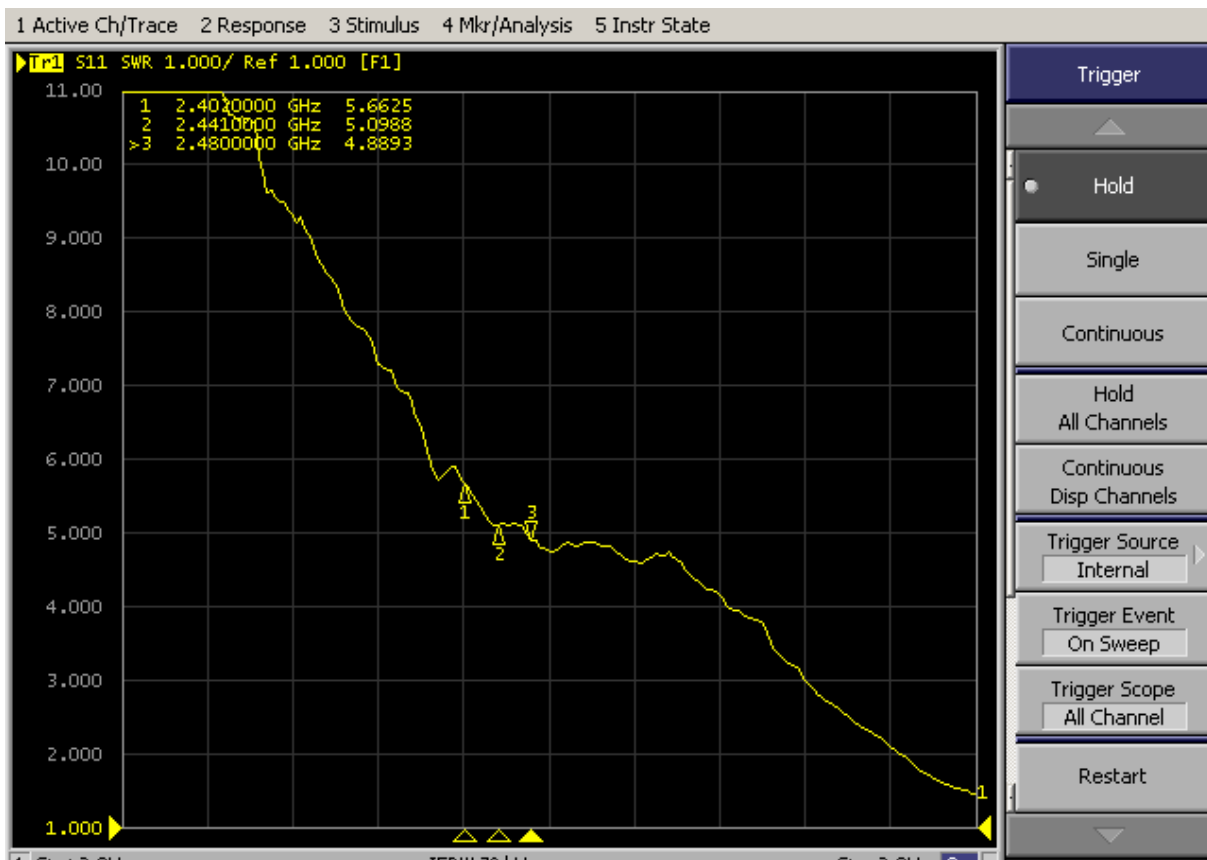


PHI 90 度



THETA 90 度

Standing wave ratio chart:



Product Description

GSOU TECHNOLOGY(SHENZHEN)Co.,LTD.

The EUT is a short range, lower power, Splash designed as a Device. It is designed by way of utilizing the GFSK, 1/4PI-DQPSK and 8DPSK modulation achieves the system operating.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2402-2480MHz
- B). Modulation: GFSK, 1/4PI-DQPSK, 8DPSK
- C). Number of Channel: 79
- D). Channel space: 1MHz
- E). RF Output power: 0.44dbm
- F). BIT Rate of Transmission: 1Mbps, 2Mbps, 3Mbps
- G). Antenna Type: PCB antenna
- H). Antenna GAIN: 1.08443dBi