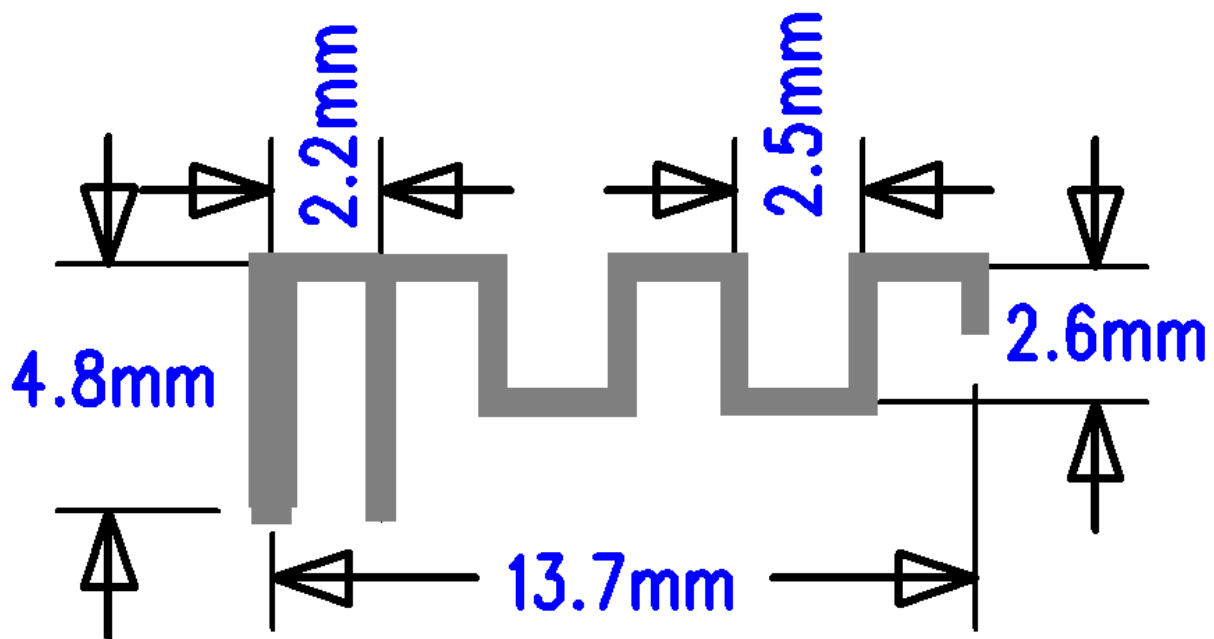


F shape Bluetooth antenna specification

一、Antenna Introduction

The Bluetooth antenna is made directly on the PCB board.

二、Antenna Appearance diagram



三、Antenna parameter

The Bluetooth antenna operates at a frequency of 2400-2500MHz.

Resonance is generated in this frequency range. 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)	1.08dBI
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 :

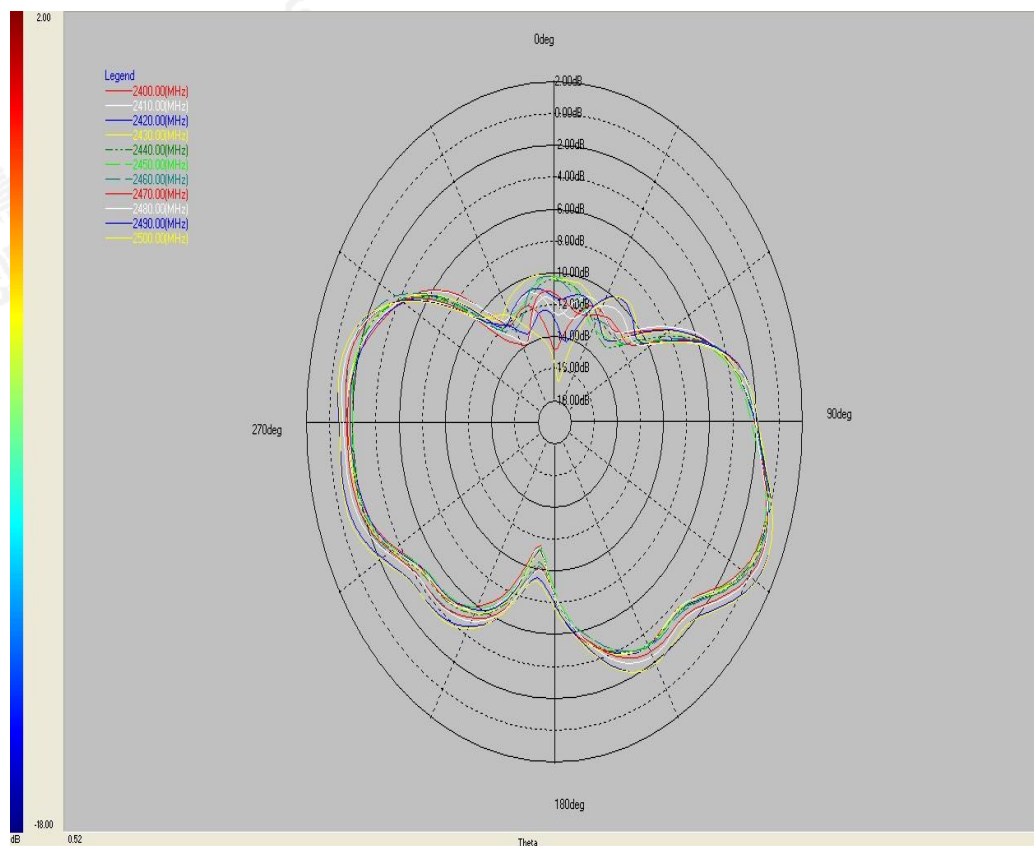
55 %

Modulation:

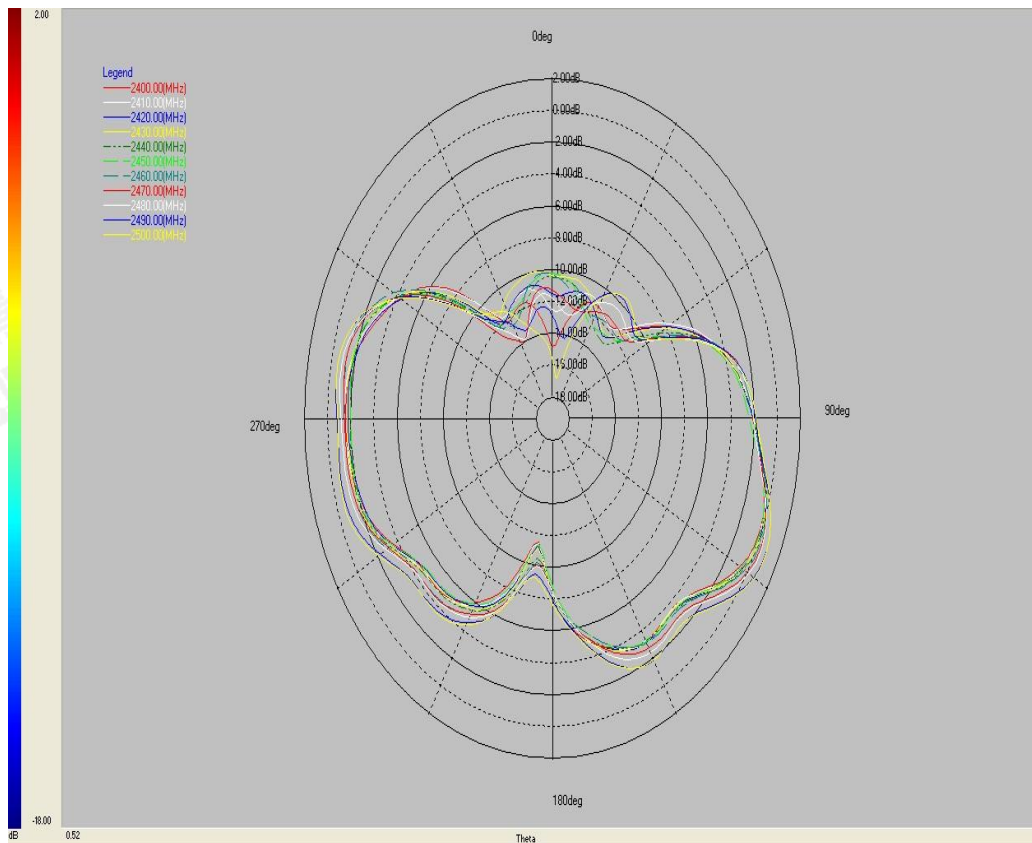
GFSK

Frequency VNA (MHz)	E Total. dBI
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

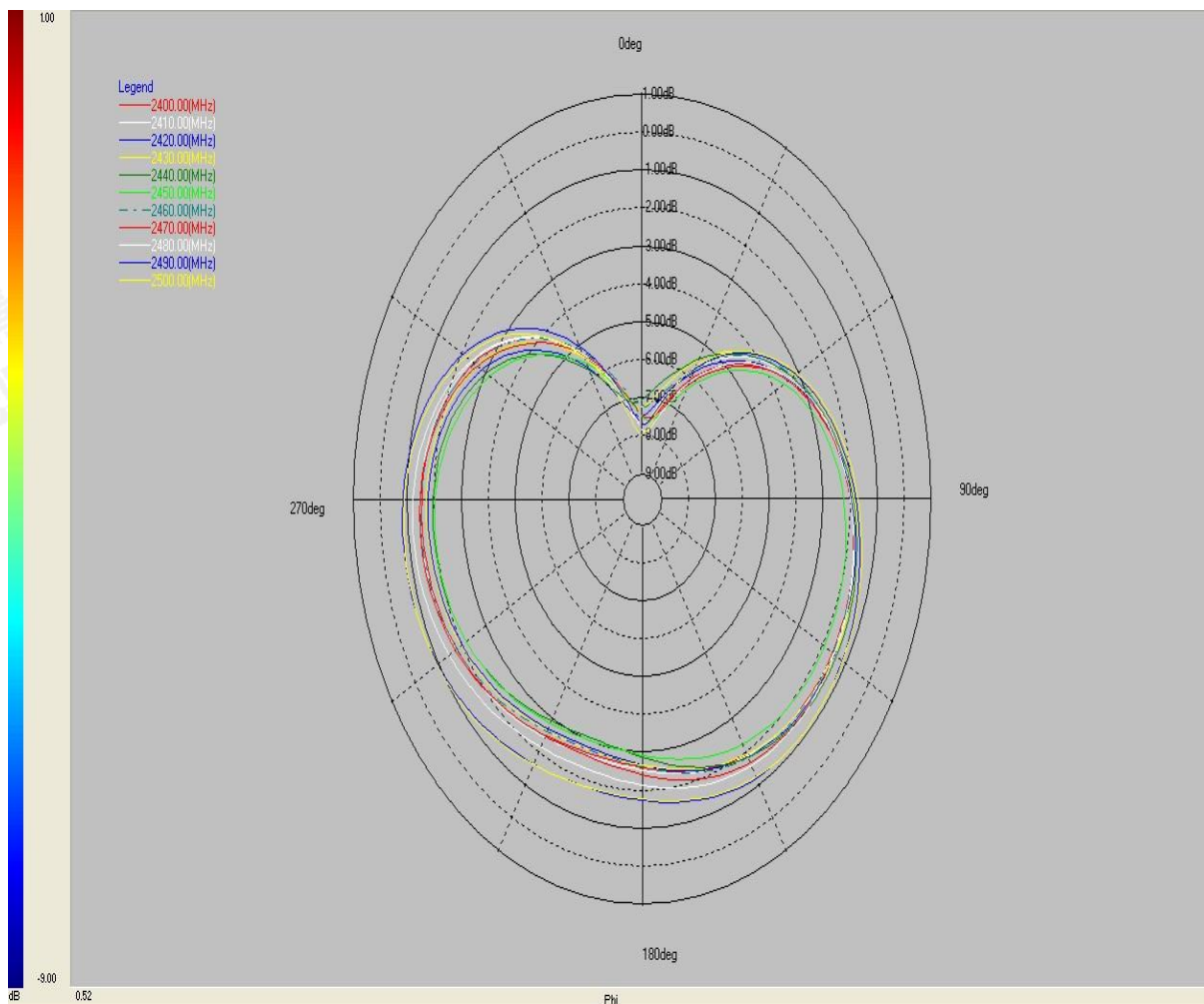
Directional diagram:



PHI 0 Degree

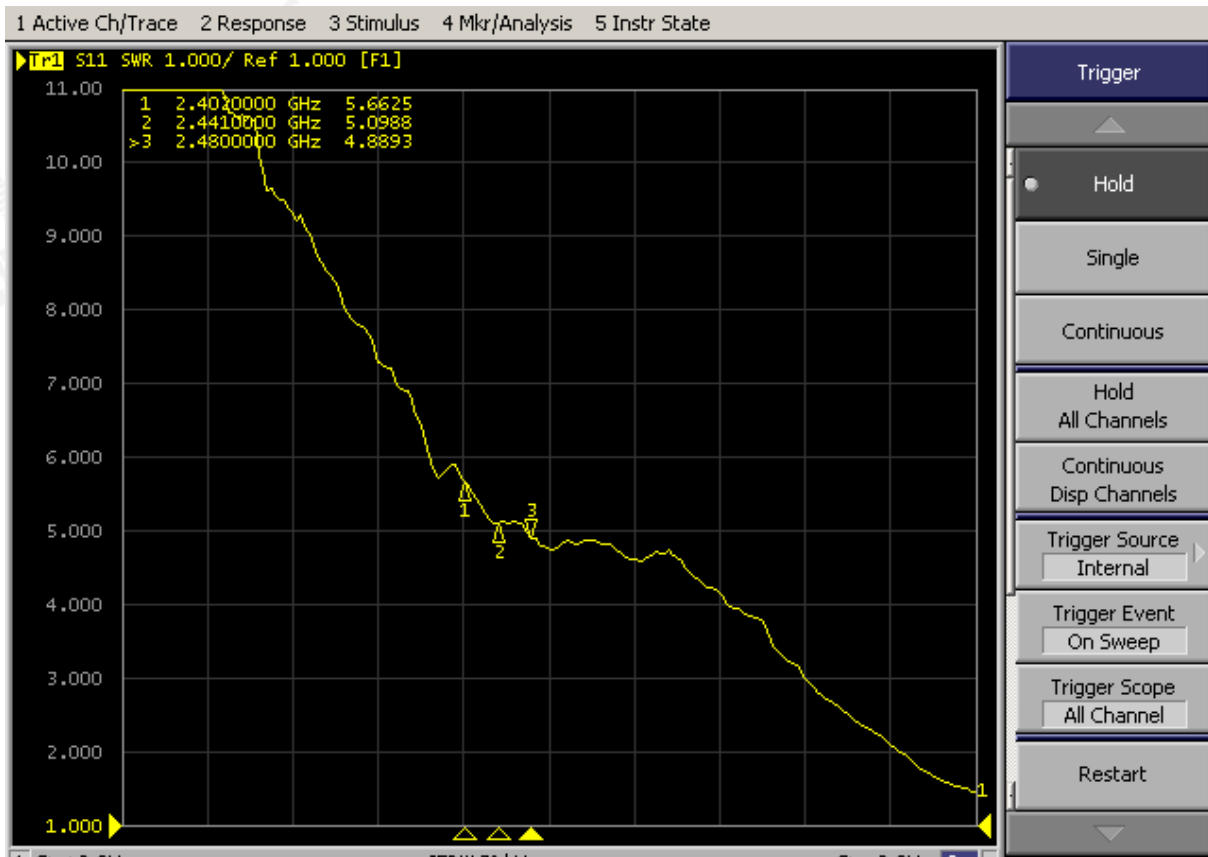


PHI 90 degrees



THETA 90 degrees

Tanding wave ratio:



Product Description

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

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2400-2500MHz
- B). Modulation: GFSK, 1/4Π-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: 1.084dBI