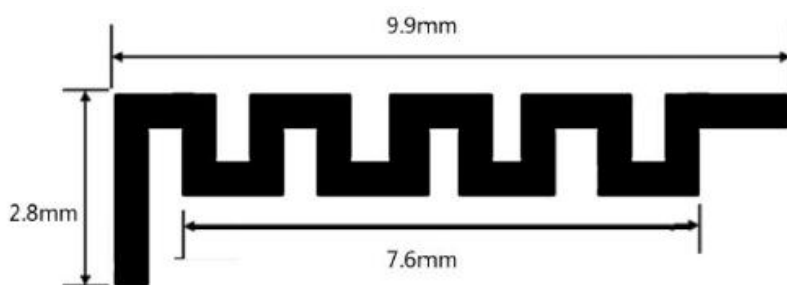


Antenna Report

1. Antenna Description

The Bluetooth antenna is directly installed on the PCB board.

2. Antenna Size



3. Antenna Parameters

The working frequency of Bluetooth antenna is 2402-2480MHz.

The following table shows the main parameters of the antenna.

Bluetooth built-in antenna	
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

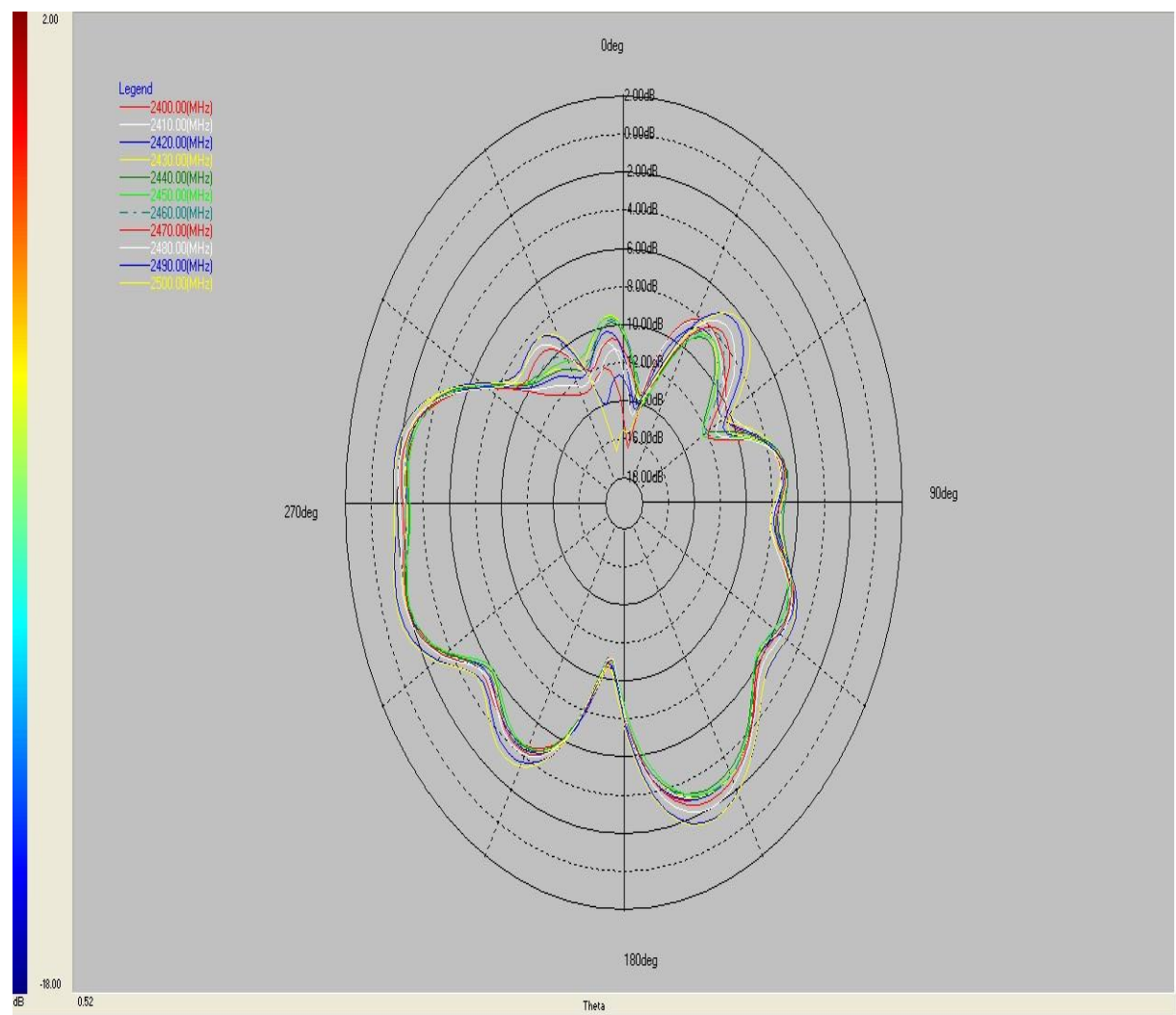
4. Antenna Gain Report

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

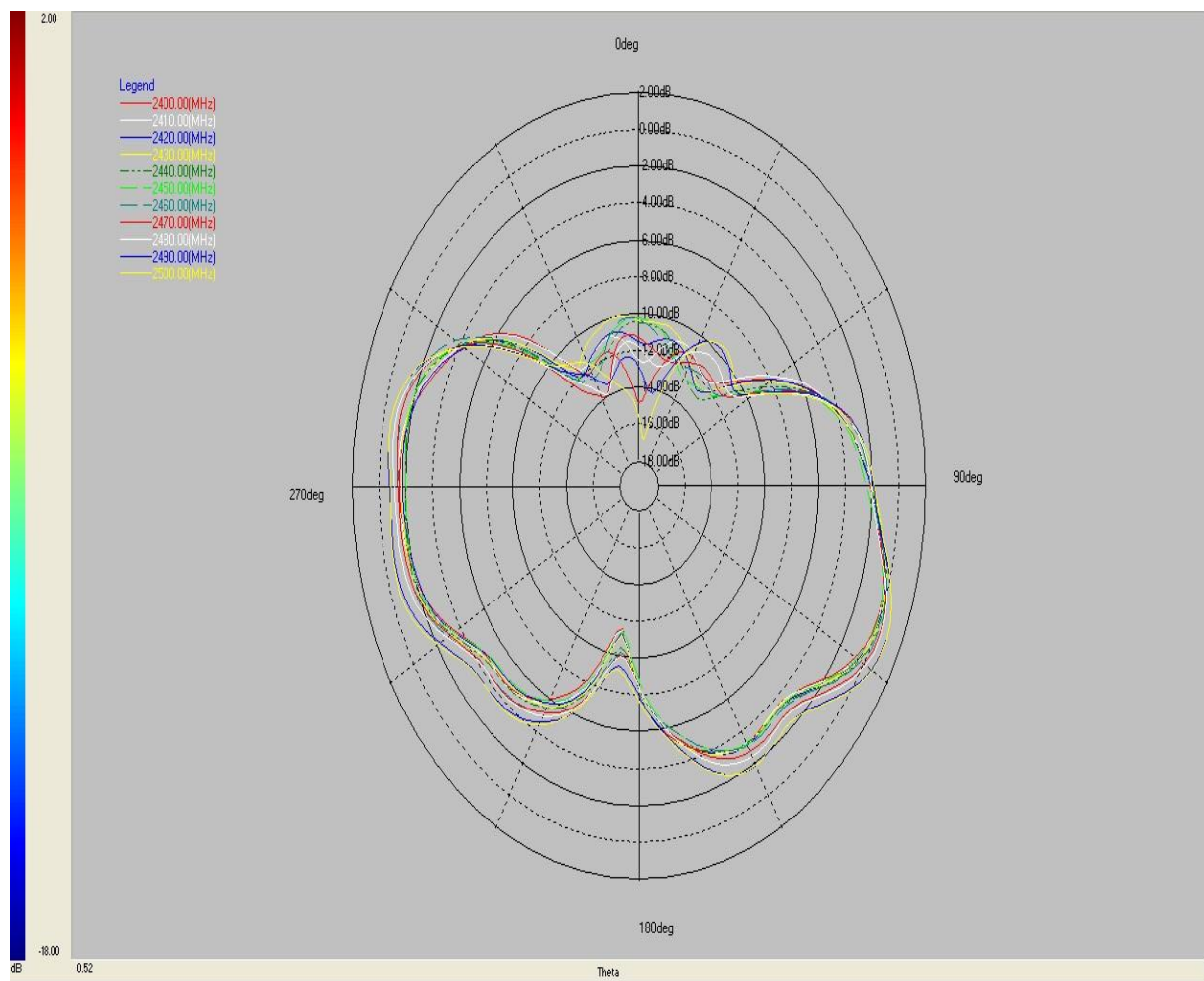
Frequency (MHz)	Gain dBi
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2400MHz	0.0403503
2410MHz	0.0886264
2420MHz	0.267381
2430MHz	0.193012
2440MHz	0.26366
2450MHz	0.0723139
2460MHz	0.36895
2470MHz	0.551525
2480MHz	0.640702
2490MHz	1.05232
2500MHz	1.08443

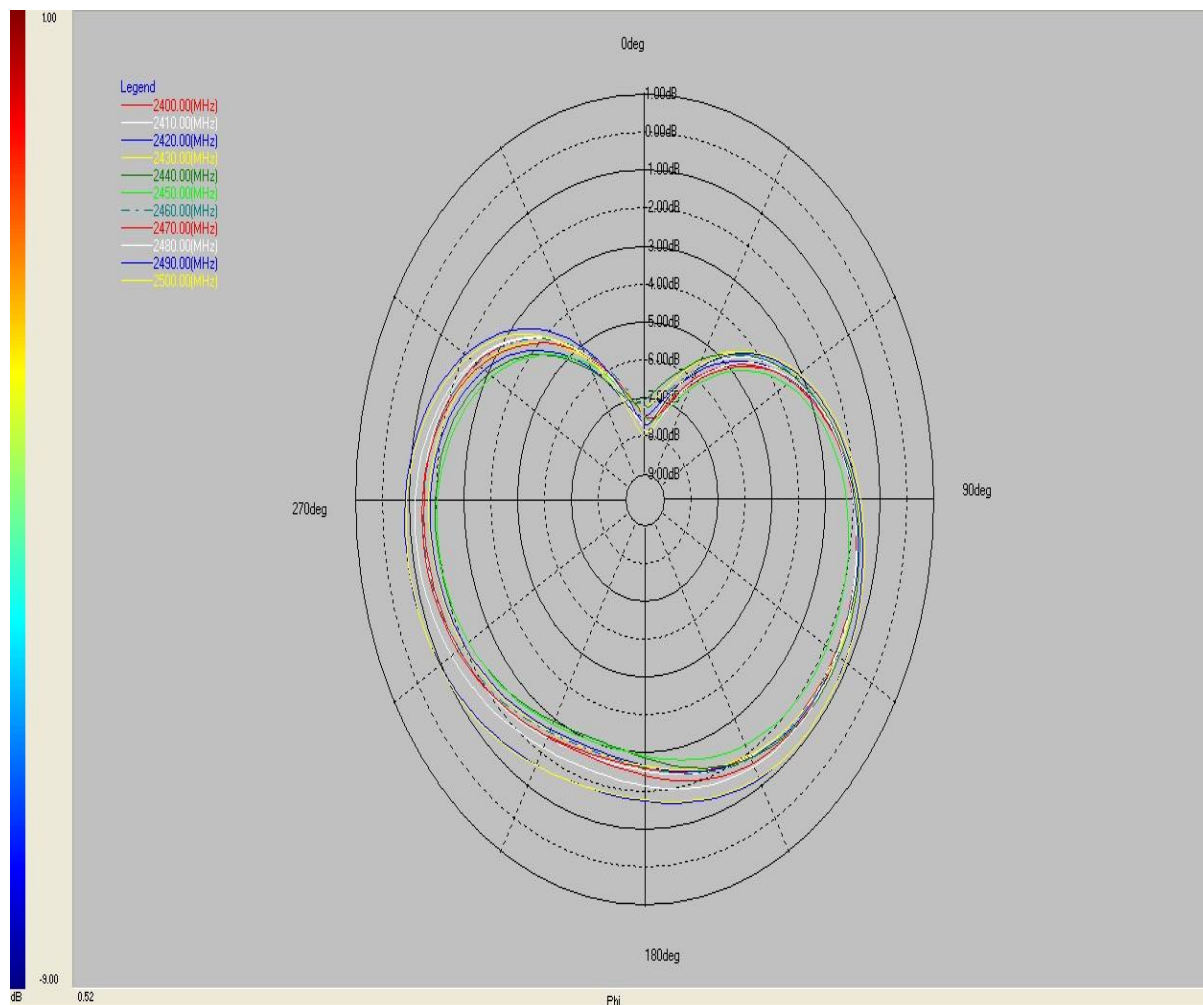
Antenna pattern



PHI 0 degree

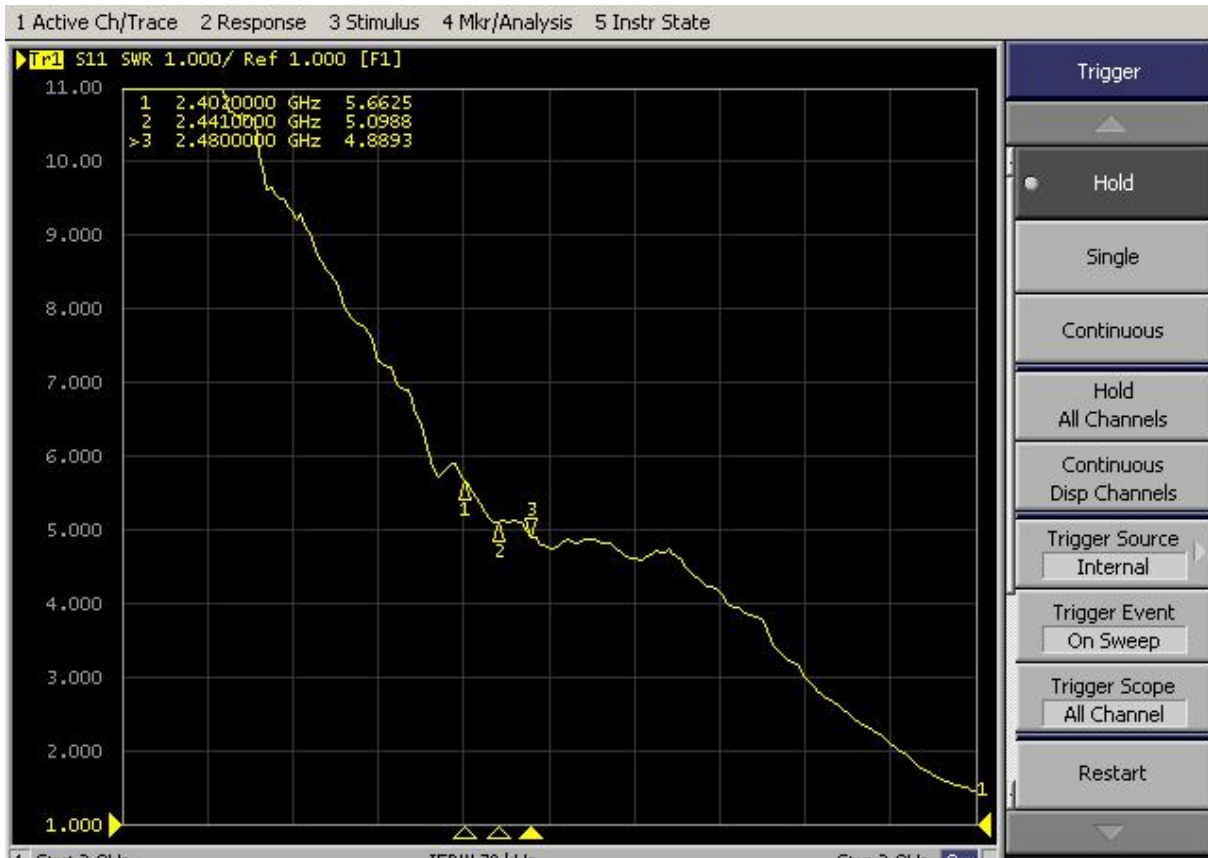


PHI 90 degree



THETA 90 degree

Antenna SVWR



Product Description

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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: 2402-2480MHz
- 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: 1.0884 dBi
- G). Antenna Name: 2.4G_ANT