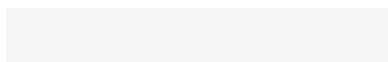
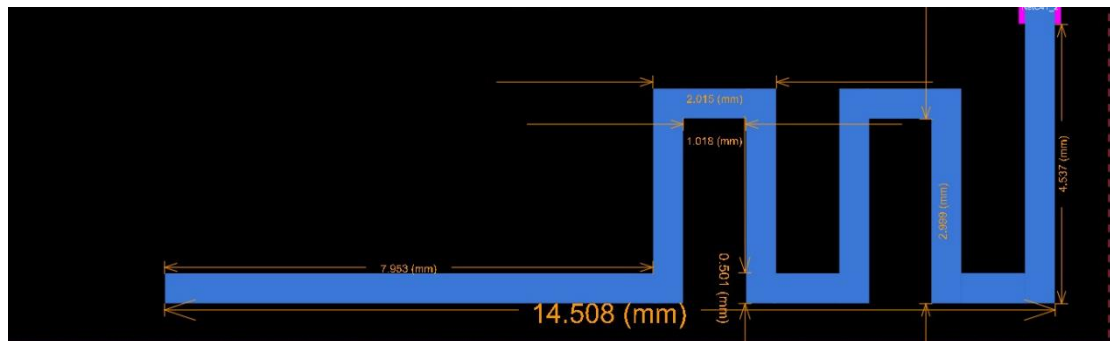


## 1. Antenna Description:

Antenna type	PCB antenna
Model	OE920
Frequency range	2400-2500MHz
Manufacturer	SHENZHEN LOFREE CULTURE CO., LTD
ANT Peak Gain	2.08 dBi

## 2. Antenna Photo:



### 3. Test Equipment & Conditions

#### 3.1 Test instrument

VSWR is tested using Agilent E5071B connected to a hand mechanism, and the status is free space.

#### 3.2 Test environment and methods

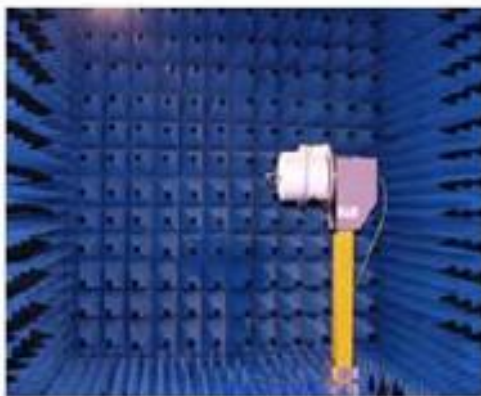
Dark room specifications: ETS-743

TD-SCDMA test equipment: StarPoint SP6010/Agilent 8960

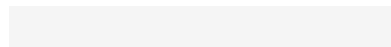
LTE-TDD/FDD-SCDMA test equipment: StarPoint SP8011/CMW500

WCDMA/GSM/CDMA test equipment: Agilent 8960

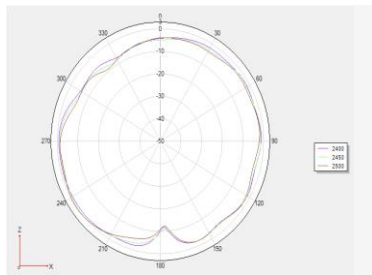
Passive efficiency testing equipment: Agilent Technologies E5071B



### 4 . Antenna Radiation Pattern

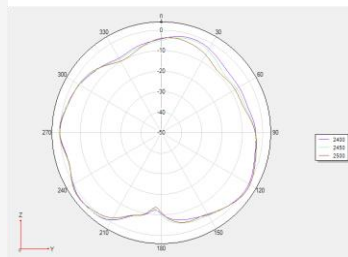


Phi 0 2D graph



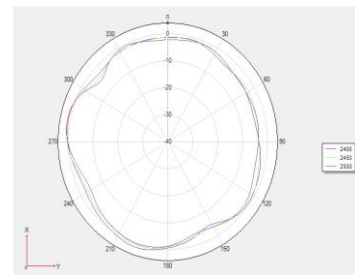
2400

Phi 90 2D graph

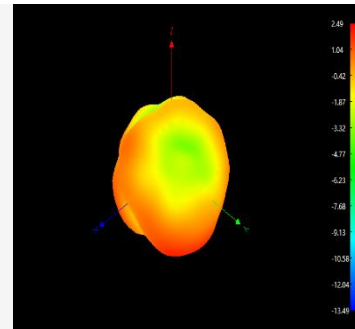
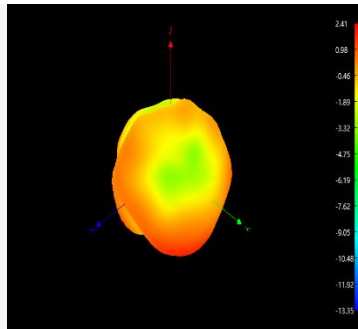
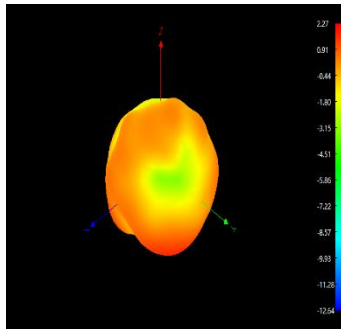


2450

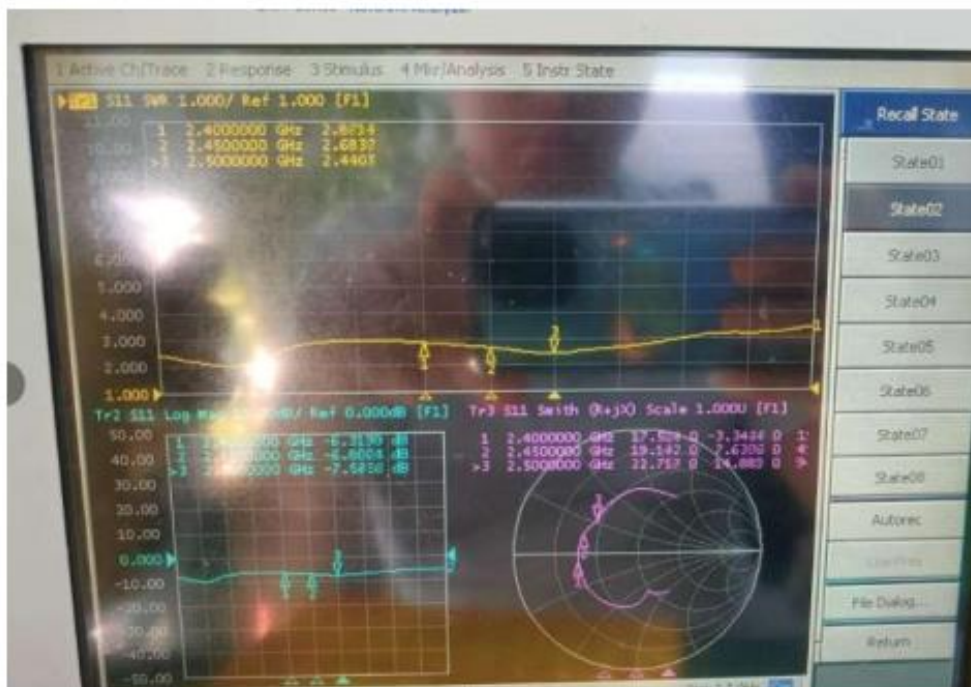
Theta 90 2D diagram



2500



## 5. Antenna standing wave ratio



## 6. Antenna efficiency, frequency, gain

Frequency	Efficiency / %	Gain/ dBi
2400MHz	43.45	0.31
2410MHz	48.98	1.06
2420MHz	42.66	0.65
2430MHz	46.13	0.74
2440MHz	39.45	0.16
2450MHz	49.09	1.24
2460MHz	43.75	0.99
2470MHz	45.71	1.28
2480MHz	41.98	1.5
2490MHz	45.81	2.08
2500MHz	44.67	1.99