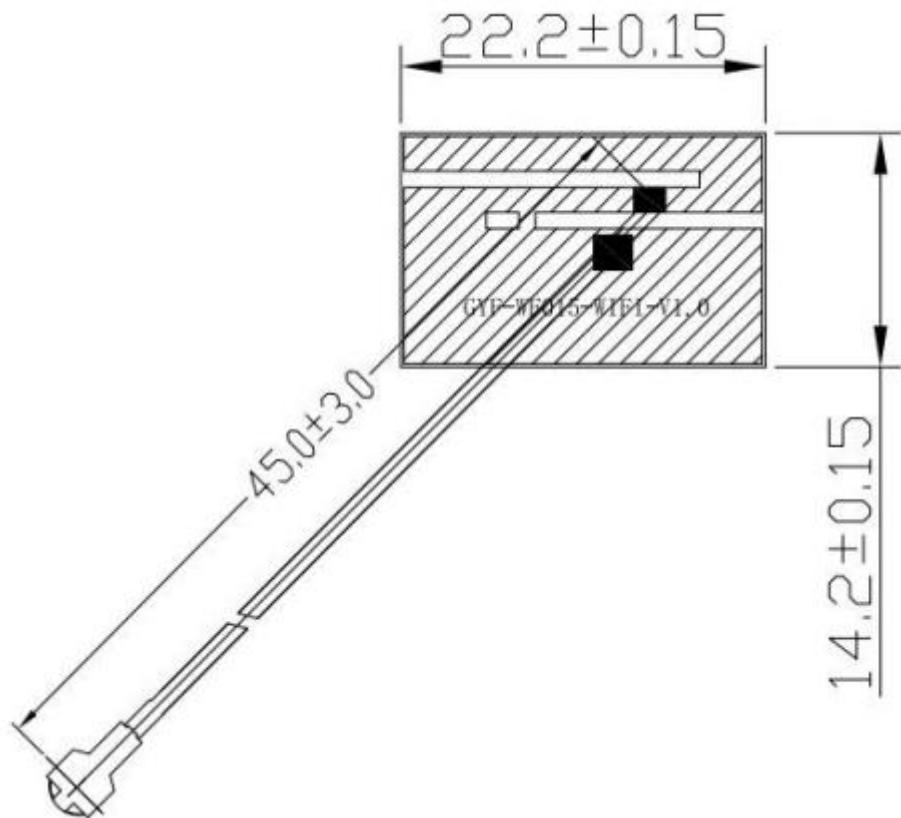


## 1. Antenna Description:

Antenna type	FPC antenna
Model	WF015
Frequency range	2400-2500MHz
Manufacturer	SHENZHEN GUANGYUANFA ELECTRONIC CO.,LTD
Address	10th Floor, Building D2, Songhu Zhigu Innovation Center, Liaobu Town, Dongguan City China
ANT Peak Gain	5.25 dBi

## 2. Antenna Photo:



Unit:mm

### 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

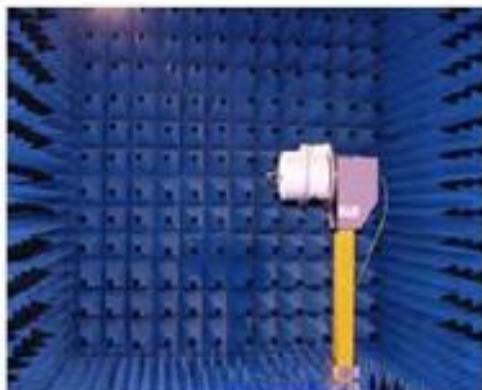
Dark room specifications: ETS-743

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

Frequency	Efficiency	Gain (dBi)	Efficiency
2400.0	-3.22	3.69	<b>47.62</b>
2410.0	-3.09	3.51	<b>49.06</b>
2420.0	-2.92	3.36	<b>51.08</b>
2430.0	-3.02	2.99	<b>49.93</b>
2440.0	-2.78	2.79	<b>52.77</b>
2450.0	-2.66	2.83	<b>54.24</b>
2460.0	-2.54	3.48	<b>55.76</b>
2470.0	-2.44	4.23	<b>56.98</b>
2480.0	-2.39	4.82	<b>57.71</b>
2490.0	-2.51	5.06	<b>56.11</b>
2500.0	-2.47	5.25	<b>56.60</b>

		TRP	TIS
WIFI B	1	14.72	-84.54
	7	15.48	-82.26
	13	14.3	-80.54

2D/3D

