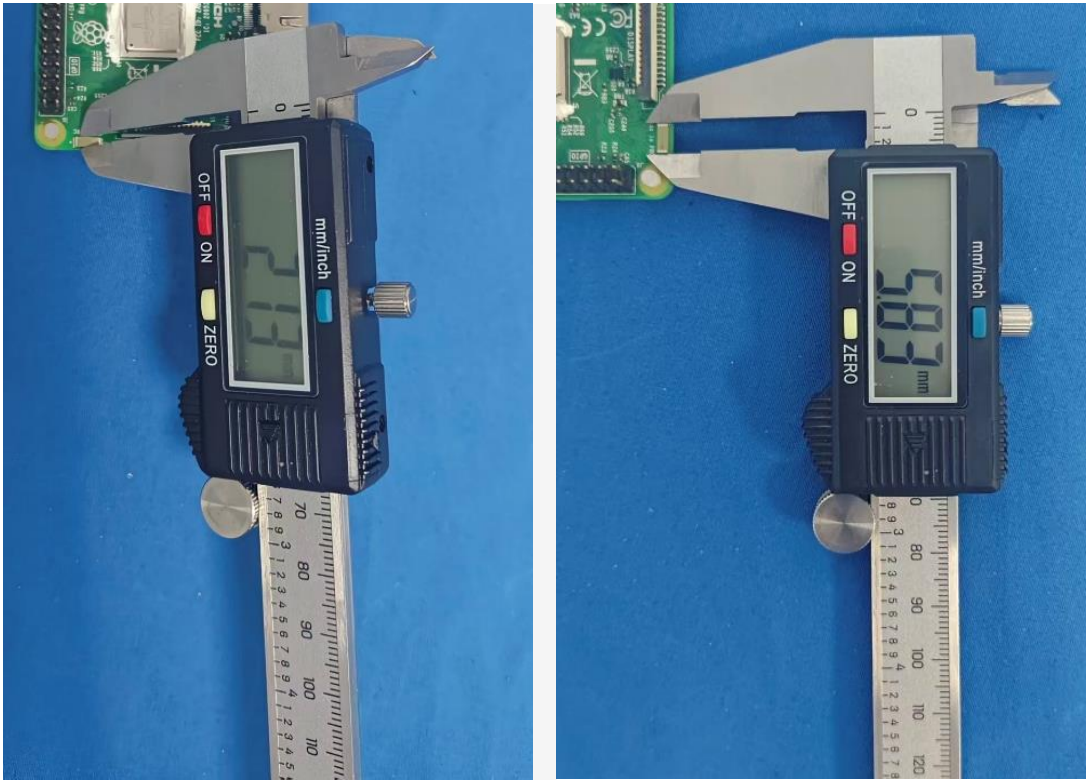


1. Antenna Description:

Antenna type	Ceramic antenna
Model	HHKCSS160YB
Frequency range	2400-2500MHz, 5180-5240MHz
Manufacturer	Honghui Kuaicang Technology (Shenzhen) Co., Ltd
Address	Room 405, No. 48 Xinyu Road, Xiangshan Community, Xinqiao Subdistrict, Bao'an District, Shenzhen, China
ANT Peak Gain	1.79 dBi for 2400-2500MHz 1.39 dBi for 5180-5240MHz

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

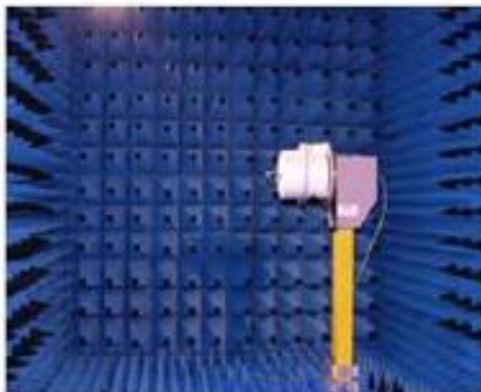
Dark room specifications: ETS-743

TD-SCDMA test equipment: StarPoint SP6010/Agilent 8960

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

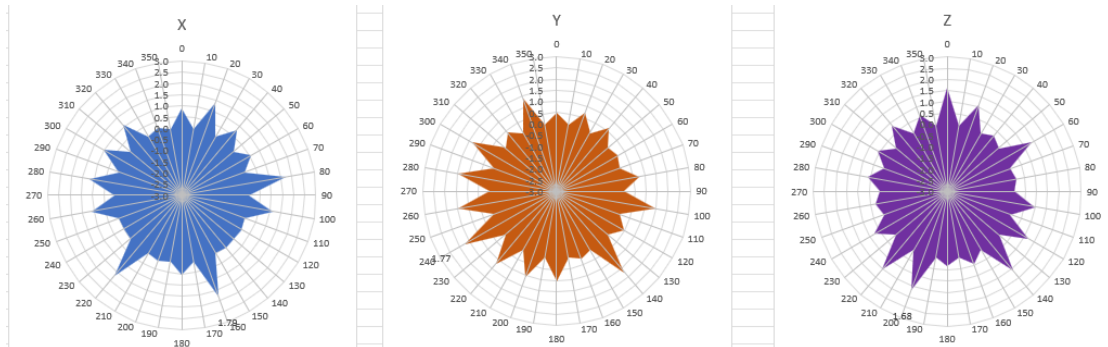
WCDMA/GSM/CDMA test equipment: Agilent 8960

Passive efficiency testing equipment: Agilent Technologies E5071B

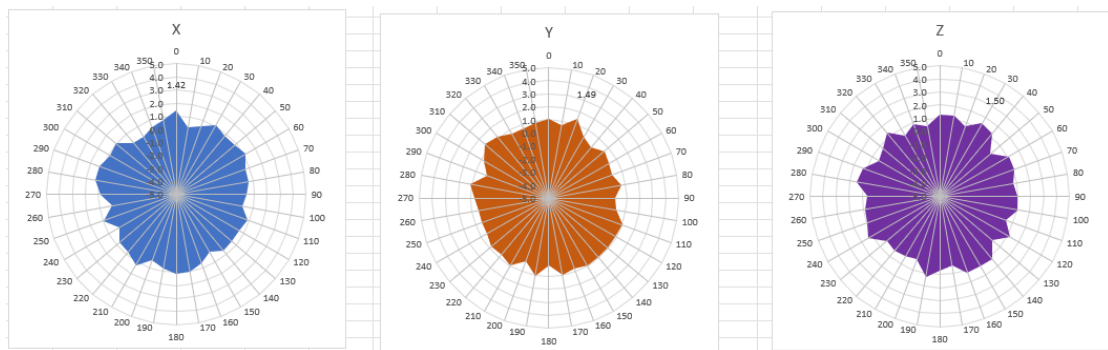


4 . Antenna Radiation Pattern

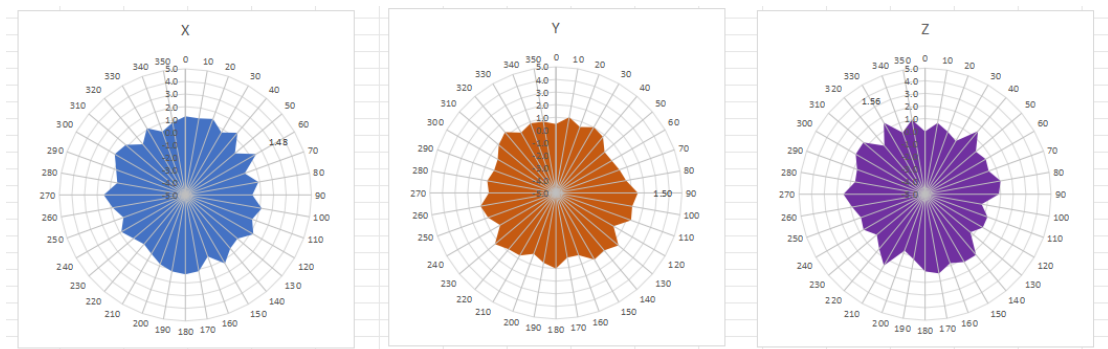
2400MHz



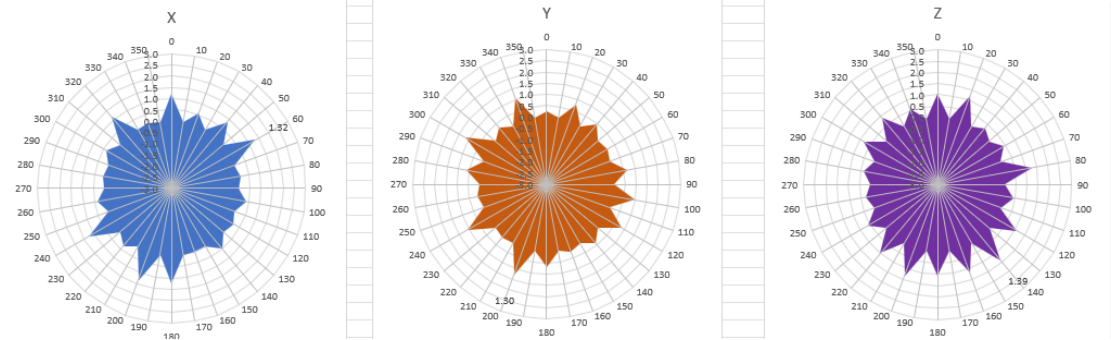
2450MHz



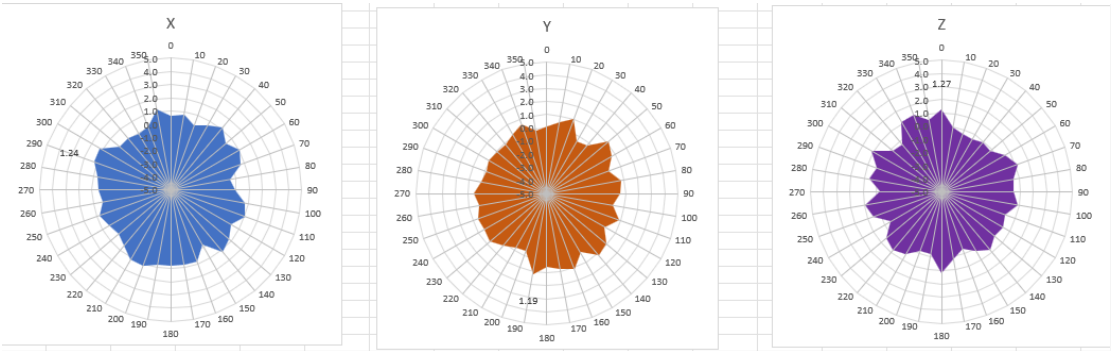
2500MHz



5180MHz



5220MHz



5240MHz

