
SN515AR project WBG antenna Report

1 Overview

This document is the SN515AR project WBG antenna acknowledgement;

The antenna operates in the frequency band of 1575MHz;

2400MHz~2500MHz;5150~5850MHz

2 Manufacturere and its address

Company name: Shenzhen Fu Bang Wireless Technology Co.,Limited

Address Address: Room 302, lianjian Industry Part, Huarong road, Longhua

District, Shenzhen, P.R. China

3 The model and type of antenna

Antenna model: SN515AR-G+W (FPC) antenna

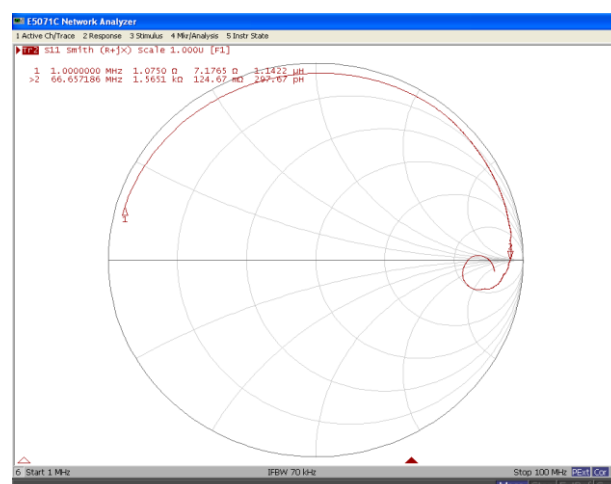
Antenna type: IFA

Antenna model: SN515AR-NFC (FPC) antenna

Antenna type: loop

Test Data

Frequency range	13.56MHz
Secure element interface	SWP/HCI
Type	Active and Passive



4 Antenna test environment

4.1 Antenna test lab, test instrument, and calibration date

Antenna input characteristics are tested using the Agilent E5071C vector network analyzer.

The antenna radiation characteristics test uses the GTS RayZone 2800 3D near-field anechoic chamber. The test coordinate system is shown in Figure 4.1.1.

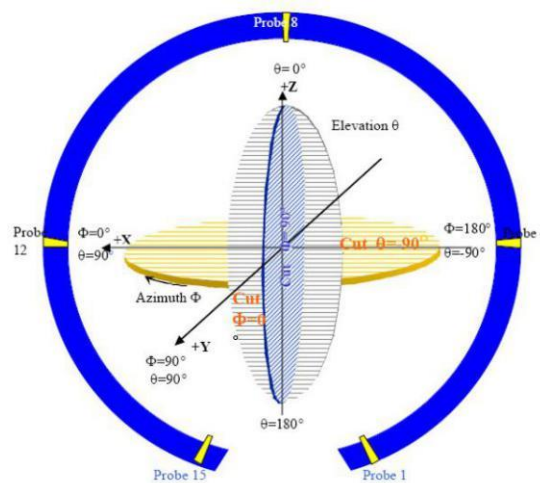


图 4.1.1 3D 微波暗室测试坐标系 (back view)

Figure 4.1.1 3D anechoic chamber test coordinate system (back view)

4.2 Antenna test lab, test instrument, and calibration date

The tester uses the Anritsu 8000A(5G)& Anritsu MT8821C (2G&3G&4G)&RS CMW500(WLAN)& Agilent E4438C(GPS).

The antenna radiation characteristics test uses the GTS RayZone 2800 3D near-field anechoic chamber. The test coordinate system is shown in Figure 4.2.1.

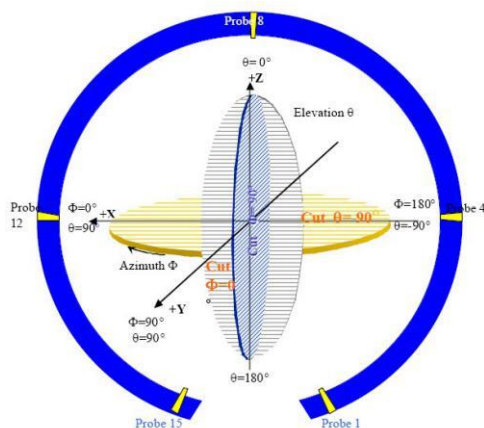


Figure 4.2.1 3D anechoic chamber test coordinate system (back view)

4.3 Antenna test lab, test instrument, and calibration date.

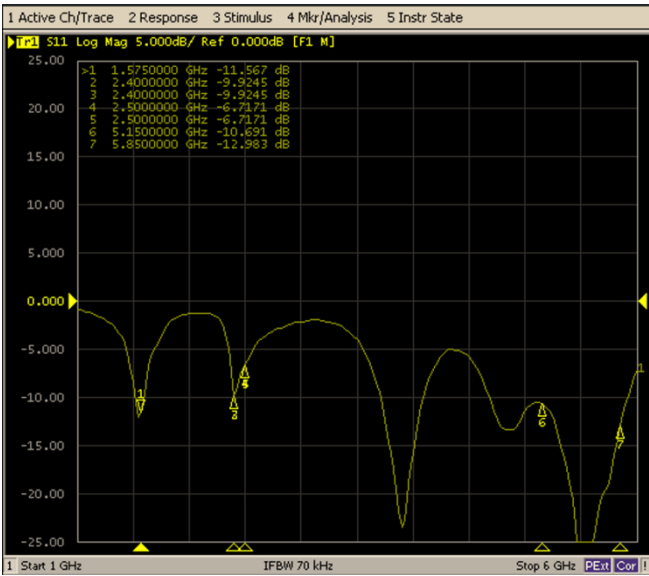


Figure 4.3.1 Dark room physical drawing

4.3 Anritsu 8000A& Anritsu MT8821C&RS CMW500& Agilent E4438C calibration date

Calibration date
2026.3.16

5 Reflection loss

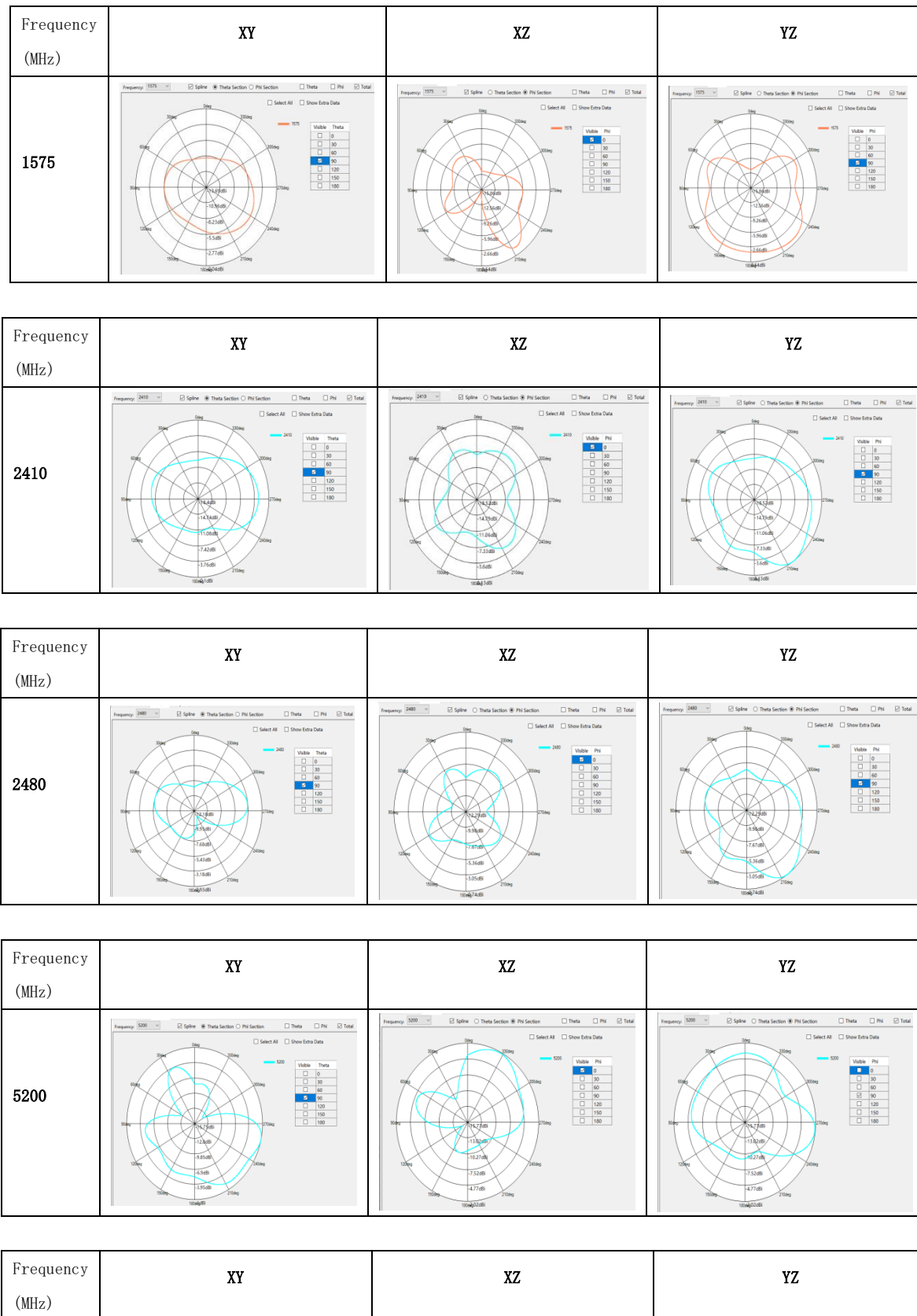


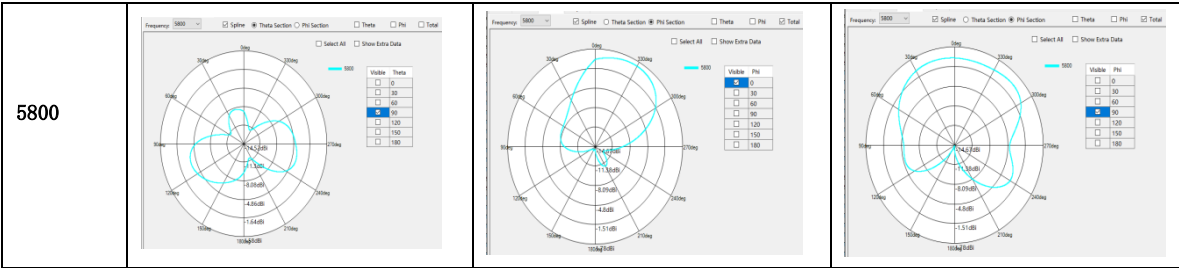
WBG S11

6 Antenna gain and 2D or 3D Pattern diagram:

GPS/WLAN Peak Gian(dBi)	Peak Gian(dBi)
1550MHz-1580MHz	0.4
2400MHz-2500MHz	0
5150MHz-5250MHz	0
5250MHz-5350MHz	-1.8
5470MHz-5725MHz	0.1
5725MHz-5850MHz	1.7

6.1 Antenna gain and 2D or 3D pattern diagram:





7.Test software GTS MaxSign-RayZone2800C_Z

Yan Lun Kang

8. Signature: