
SL006MW project Main antenna acknowledgement

1 Overview

This document is the SL006MW project Main antenna acknowledgement;

The antenna operates in the frequency band of 617~960MHz,1710~2690MHz.

2 Manufacturere and its address

Company name: Huizhou Speed Wireless Technology Co., Ltd

Address Address: Huize Avenue, Shuikou Dongjiang High-tech Industrial Park,

Huizhou City, Guangdong Province

3 The model and type of antenna

Antenna model: SL006D-G+W (FPC) antenna

Antenna type: IFA

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 Satimo SG24 3D near-field anechoic chamber. The test coordinate system is shown in Figure 4.1.1.

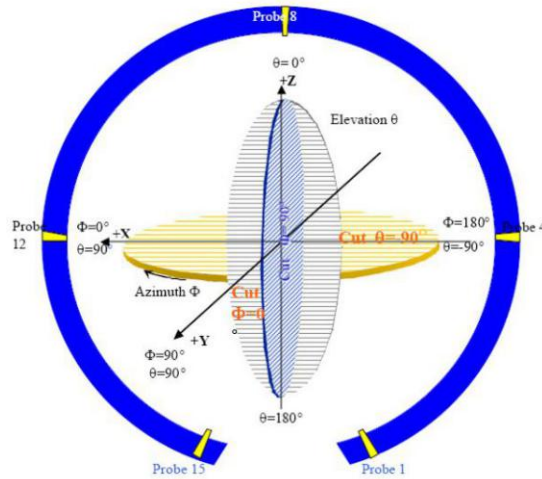


Figure 4.1.1 3D

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 MT8820C (4G) & Agilent 8960 SERIES 10 (2G&3G).

The antenna radiation characteristics test uses the Satimo SG16 3D near-field anechoic chamber. The test coordinate system is shown in Figure 4.2.1.

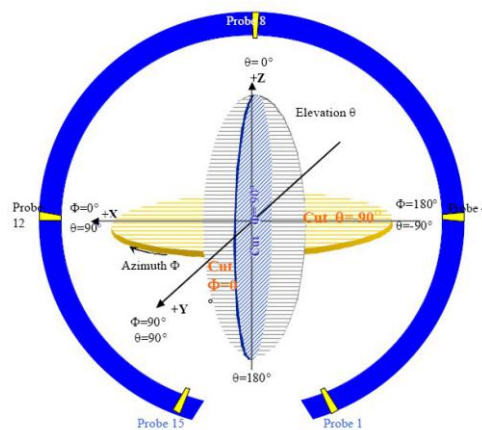


Figure 4.2.1 3D

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 MT8820C calibration date

Calibration date
2023.3.22

5 Reflection loss



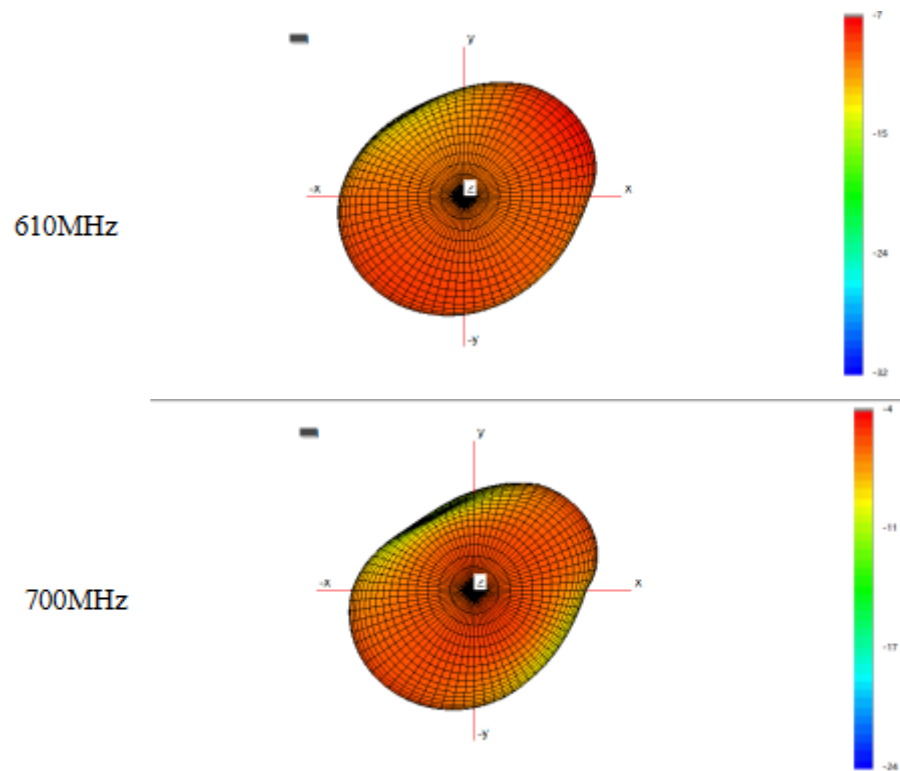
Main S11

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

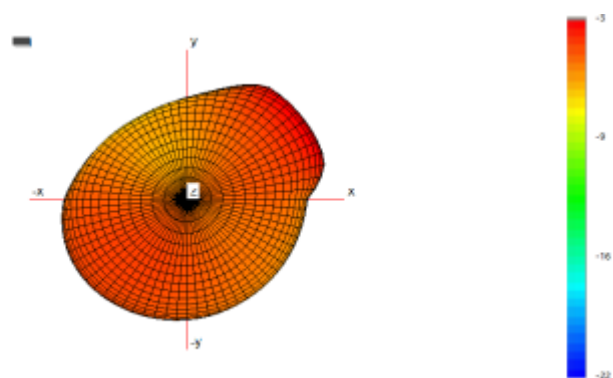
Standard	Band	Gain (dBi)
GSM	GSM850	-3.02
PCS	PCS1900	-3.34
WCDMA	B2	-3.34
WCDMA	B4	-2.29
WCDMA	B5	-3.02
LTE	B2	-3.34
LTE	B4	-2.29

LTE	B5	-3.02
LTE	B12	-4.01
LTE	B14	-2.92
LTE	B30	-5.6
LTE	B66	-2.29
LTE	B71	-4.21

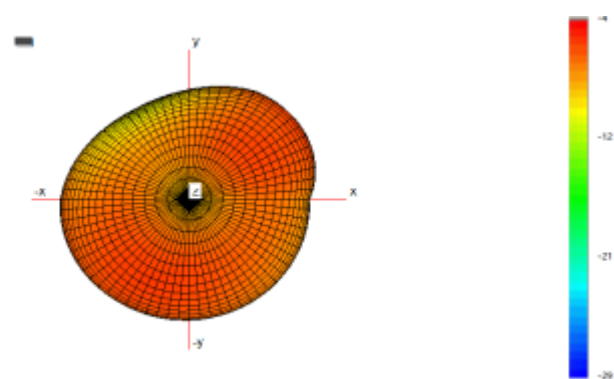
6.1 Antenna gain and 2D or 3D pattern diagram:



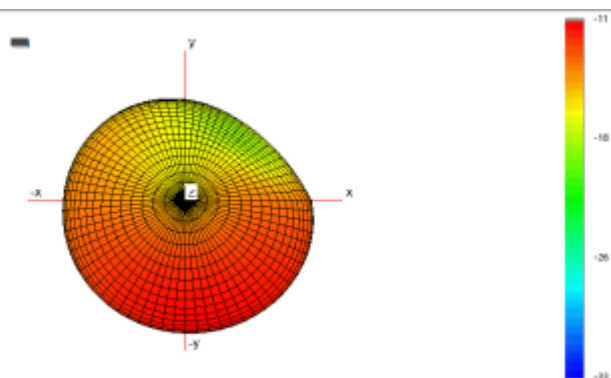
750MHz



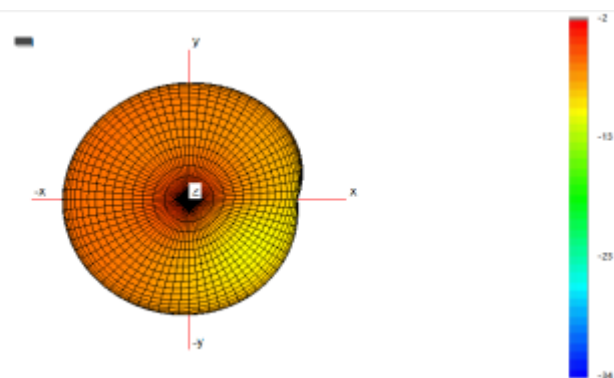
850MHz



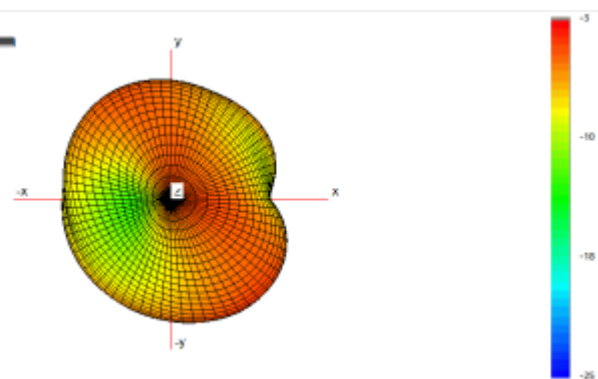
900MHz



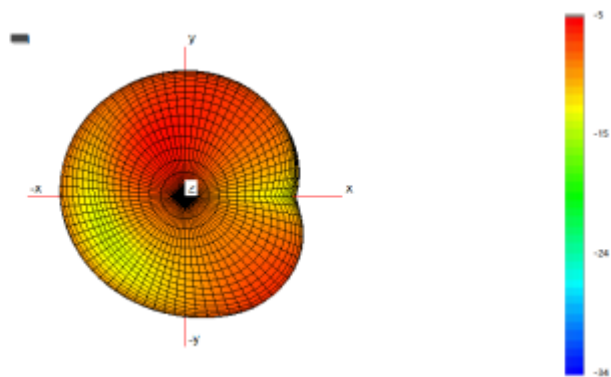
1700MHz



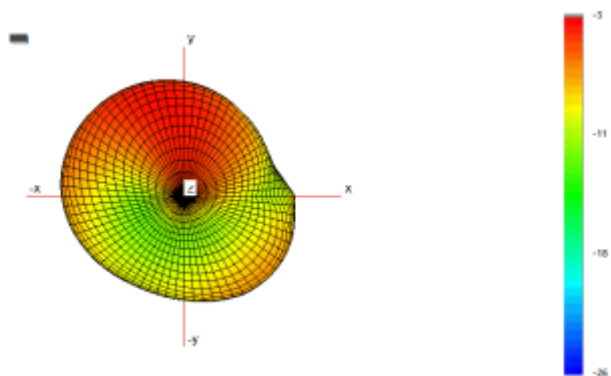
1900MHz



2300MHz



2500MHz



7 Antenna(Unit:mm)

