### Shenzhen Hetuo Technology Co., Ltd

Building 1202B, Building C 6, Hengfeng industrial city, Hezhou, xixiang, Baoan District, Shenzhen City

# Sample Approved Sheet

**Antenna Type:FPC** 

Customer Name Dongguan Shui Wo Electronic Technology Co., Ltd.

Hetuo (R1360-R+Touch) Acknowledgment

D1260

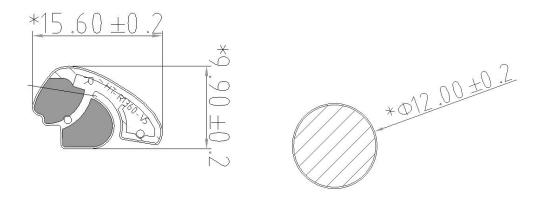
Client Typ			<u> </u>	
Brand			HT-R1360-R+Touch	
letuo Judgmen	t Audit Team			
Formulate	Check	Ratify	Acknowledge the book completion time	
hongXiaoMing	HuangZhiLing	Daitingting	2025.5.13	
(Ruihe) Judg	ment Audit Team	1		
Acknowledgem	ent Number		Proving time	
acknowledge	check	ratify	Acknowledge the book completion time	
•	y □Three acknowled g report □Specime ort□Accept	•	ty standard	

#### Confidential Information

Items	Date	Versi on	The revised notes	Notes
1	2025. 5. 13	AO	For the first time	
2				

#### 1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of HT-R1360-R+Touch. The HT-R1360-R+Touchantenna is a **BT** Band. The antenna Picture and assembly are shown below.



Antenna picture & assembly picture

#### 2. Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071C and Agilent 5062A vector network analyzer; The radiation pattern of the antenna are tested using the Satimo starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:

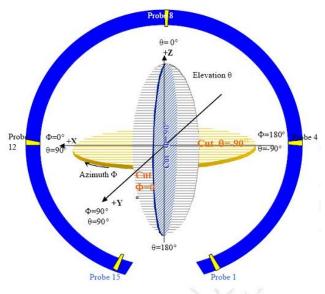
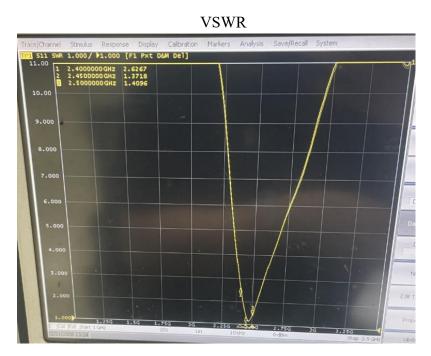


图 4 3D 微波暗室测试坐标系(back view)

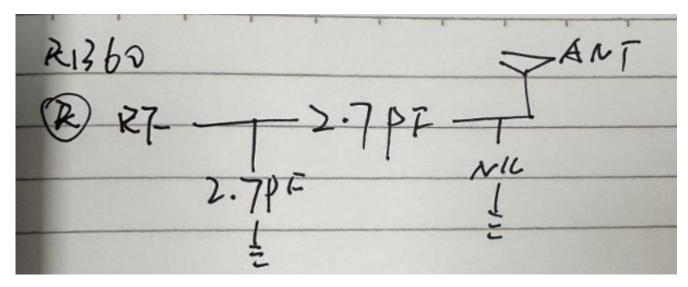
### 3. Electrical Specification

#### 3-2 Passive S11 parameter

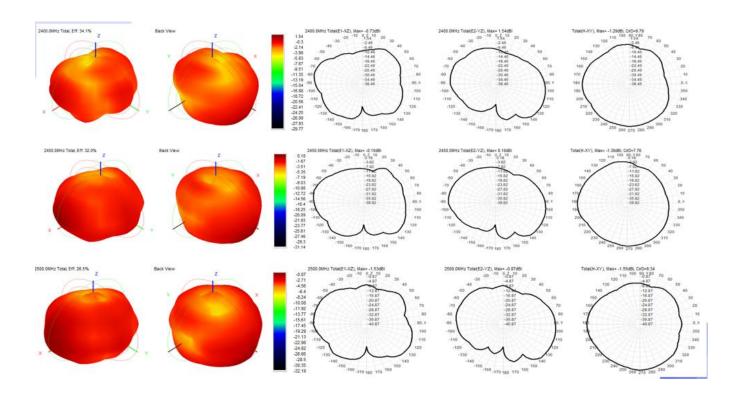
Measuring Method is a  $50\,\Omega$  coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



3-3 Antenna Matching Network



Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	29.05	1.54
2410	29.28	1.41
2420	28.15	1.09
2430	28.09	0.79
2440	27.34	0.41
2450	27.24	0.18
2460	27.07	-0.03
2470	26.20	-0.37
2480	25.80	-0.70
2490	25.10	-0.75
2500	24.52	-0.87



## BT-RANT-FS

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protoc ol	Channel	TRP(dBm)	TIS(dBm)
	CLASS 1	0	2.87	-88.56
BT		39	3.57	-87.51
		78	4.12	-87.65

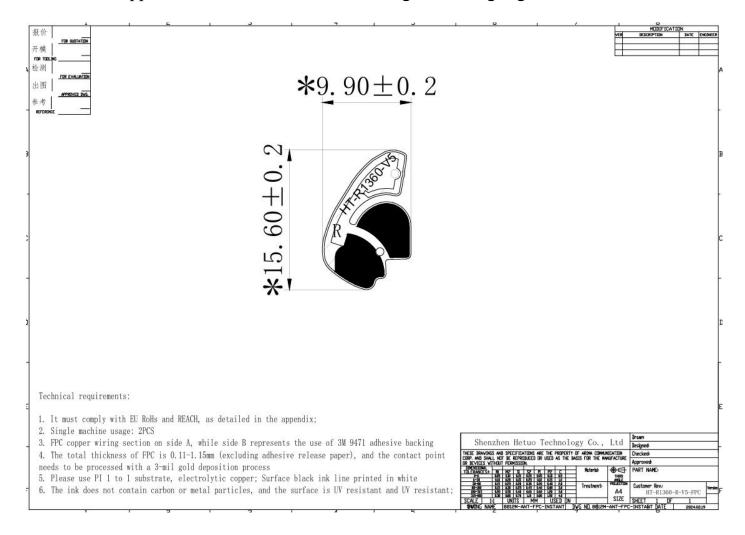
# BT-RANT-BH

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protoc ol	Channel	TRP(dBm)	TIS(dBm)
	CLASS 1	0	0.09	-84.47
BT		39	0.51	-83.38
		78	0.18	-83.16

#### 4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 8



#### **Confidential Information**

