# Sample Approved Sheet

# Hetuo (R1329A-L-V1) Acknowledgment

Customer	Name <u>Donggi</u>	uan Shui Wo Electronic	Technology Co., Ltd.						
Client Typ	De	R1329A							
Brand	d	HT-R1329A-L-V1							
Hetuo Judgmen	t Audit Team								
Formulate	Check	Ratify	Acknowledge the book completion time						
Liyaona	Huxuewen	Daitingting	2024.10.28						
(Ruihe) Judg	(Ruihe) Judgment Audit Team								
Acknowledgement Number Proving time									
acknowledge	check	ratify	Acknowledge the book completion time						
Project Review □Three acknowledgements□Specifications/drawings □examining report □Specimen PCS □Safety standard □HSF									
Appraisal report □ Accept □ Conditional acceptance □ Refuse									

#### Confidential Information

Items	Date	Versi on	The revised notes	Notes
1	2024. 10. 28	AO	For the first time	
2				

# 1. Antenna picture

The report mainly provides the test status of the electrical properties parameters of HT-R1329A -L-V1 The HT-R1329A -L-V1antenna 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:

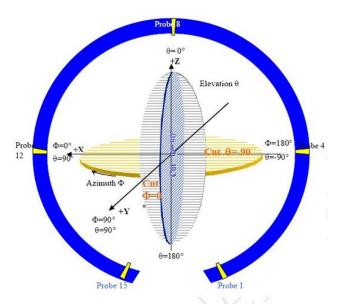


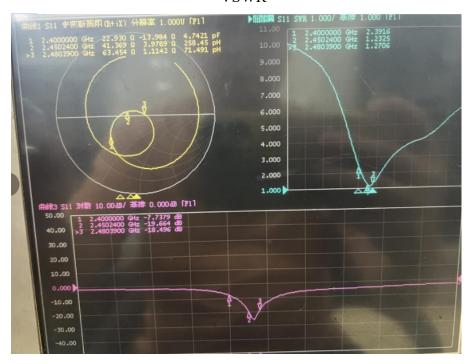
图 4 3D 微波暗室测试坐标系(back view)

### 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.

## VSWR

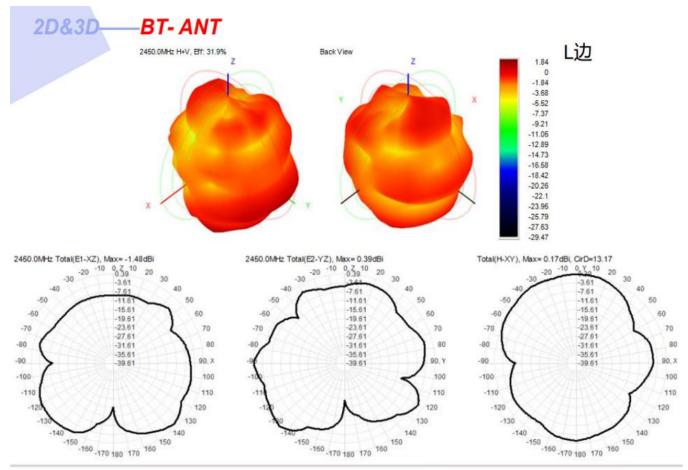


#### 3-3 Antenna Matching Network



Frequenc y (MHz)	Peak GAIN (dBi)	Efficiency (%)
2400	-1.83	15.32
2410	-1.15	17.82
2420	-0.32	21.17
2430	0.31	25.84
2440	0.90	28.88
2450	1.84	31.87
2460	1.23	32.76
2470	1.28	33.33
2480	1.00	33.58
2490	0.38	31.76
2500	0.66	30.10

ВТ	L	
СН	TRP	TIS
0	4.62	-90.29
39	4.52	-88.8
78	4.31	-89.21
ВТ	L	
СН	TRP	TIS
0	2.45	-87.12
39	2.22	-86.35
78	2.05	-86.65



Page 5

# 4. Mechanical Specification:

Mechanical Configuration (Unit: mm)

Technical requirements:

It must comply with EU Rolls and REACH, as detailed in the appendix:

2. Single machine usage: 2PCS

3. PPC copper viring section on side A, while side B represents the use of 3M 9471 adhesive backing

4. The total thickness of PPC is 0.11-1.15m (excluding adhesive release paper), and the contact point needs to be processed with a 3-mil gold deposition process

5. Please use PI 1 to 1 substrate, electrolytic copper: Surface black ink line printed in white

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6. The ink does not contain carbon or metal printless, and the surface is W resistant and W resistant: