

Antenna Product Specification

Customer Name	Dongguan Hele Electronics Co., LTD
Project Name	HT22
Antenna System Type	BT antenna
Antenna Classification	Chip
Craft	FPCB
REV.	V1.0
Date	2026.2.3

Antenna Manufacturer : Hong ji Wireless Communication (Shen zhen) Co., LTD

Web: <http://www.honant.com.cn>

Address: 12F, West Block B, Building 8, Huaqiang Creative Industry Park,

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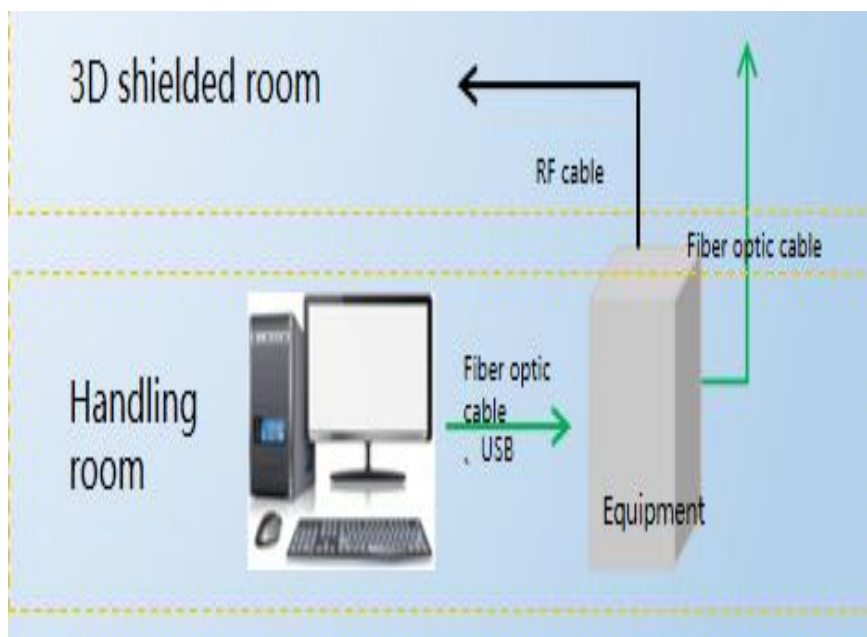
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1: Antenna test equipment

Equipment: Agilent 5071B



1.1 The principle diagram of the test system



Picture1. Antenna static test connection method

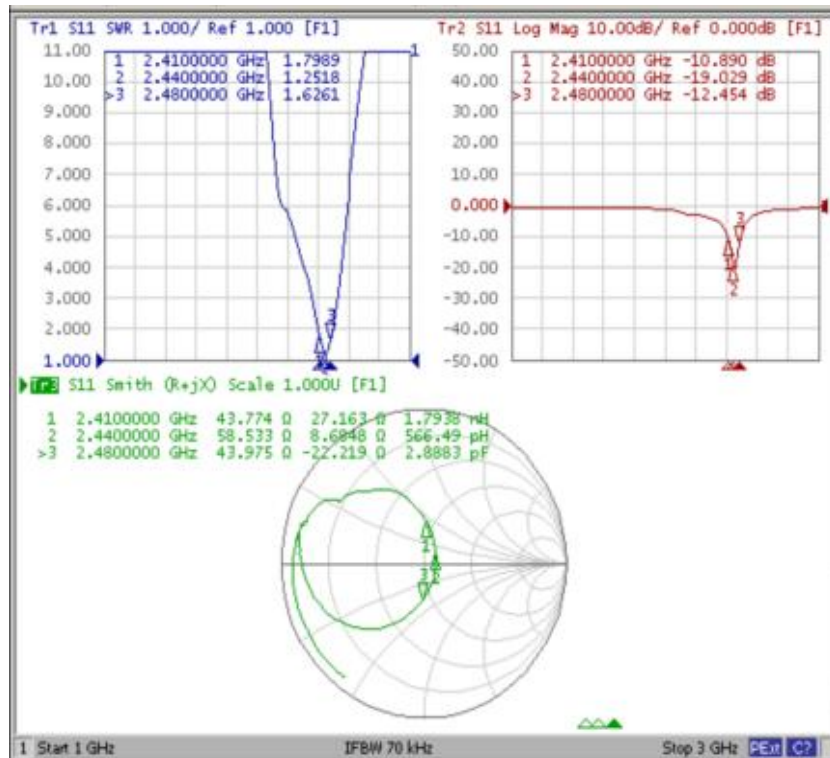
1.2 Antenna OTA Measurement System



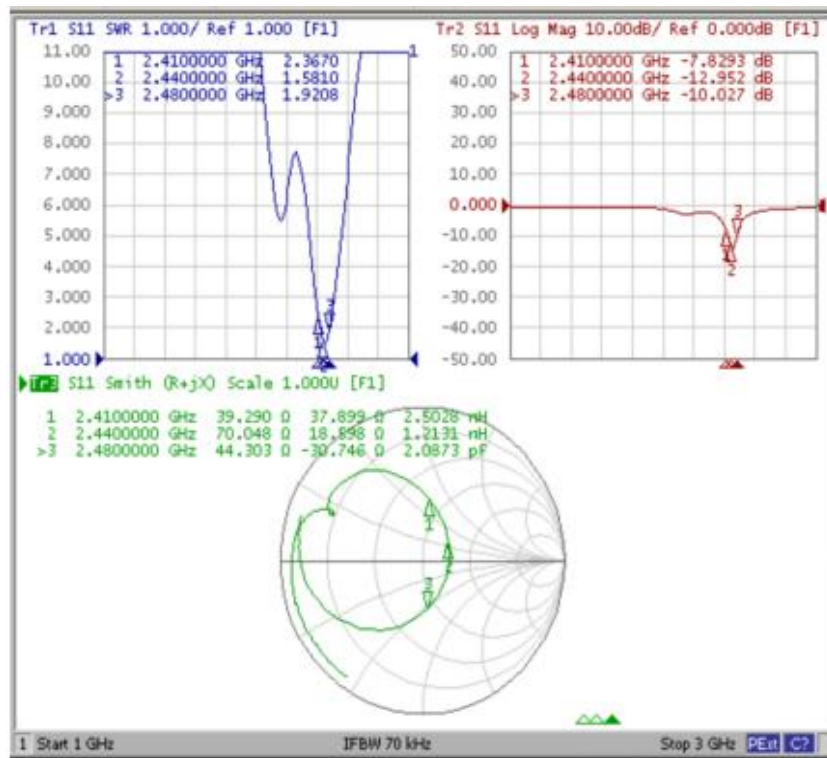
2: Functional test report

2.1: Impedance & Reflection Characteristics (S11&Smith Chart)

L:



R:



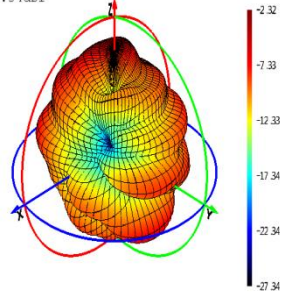
2.2: Passive efficiency

	L		R	
Freq(MHz)	Gain(dBi)	Efficiency(%)	Gain(dBi)	Efficiency(%)
2400	-2.32	14.62	-2.31	16.61
2410	-1.91	15.33	-2.17	18.26
2420	-1.43	16.61	-1.2	18.44
2430	-1.29	18.26	-1.09	17.83
2440	-1.19	18.44	-1.41	17.04
2450	-0.98	17.83	-1.25	16.51
2460	-1.05	17.04	-1.37	15.95
2470	-1.14	16.51	-1.35	15.49
2480	-1.15	15.95	-1.31	15.52

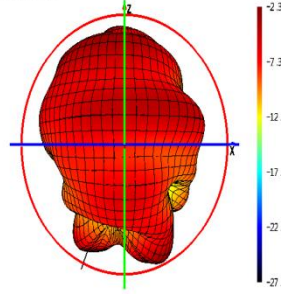
2.3: Radiation Characteristics (Radiation Pattern & Gain)

L-2400MHz

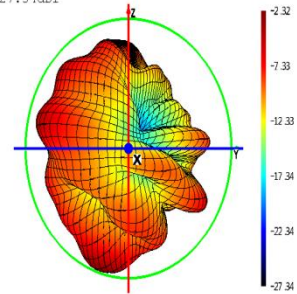
MAX: -2.32dBi
MIN: -27.34dBi



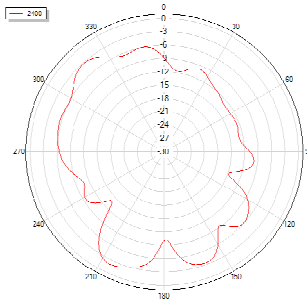
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MIN: -27.34dBi



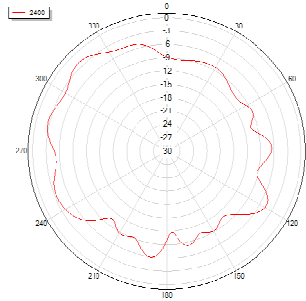
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MIN: -27.34dBi



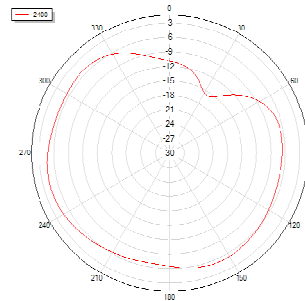
Phi=0 freq=2400MHz



Phi=90 freq=2400MHz

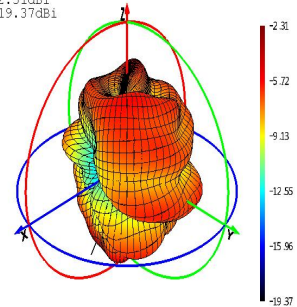


Theta=90 freq=2400MHz

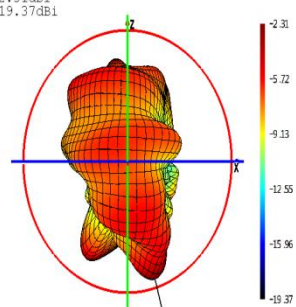


R-2400MHz

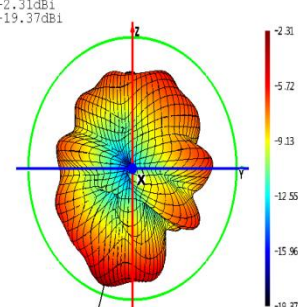
MAX: -2.31dBi
MIN: -19.37dBi



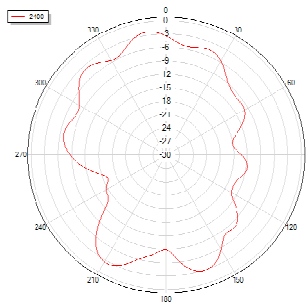
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MIN: -19.37dBi



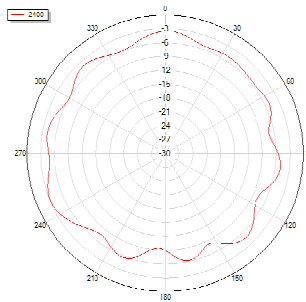
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MIN: -19.37dBi



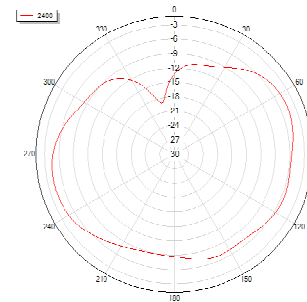
Phi=0 freq=2400MHz



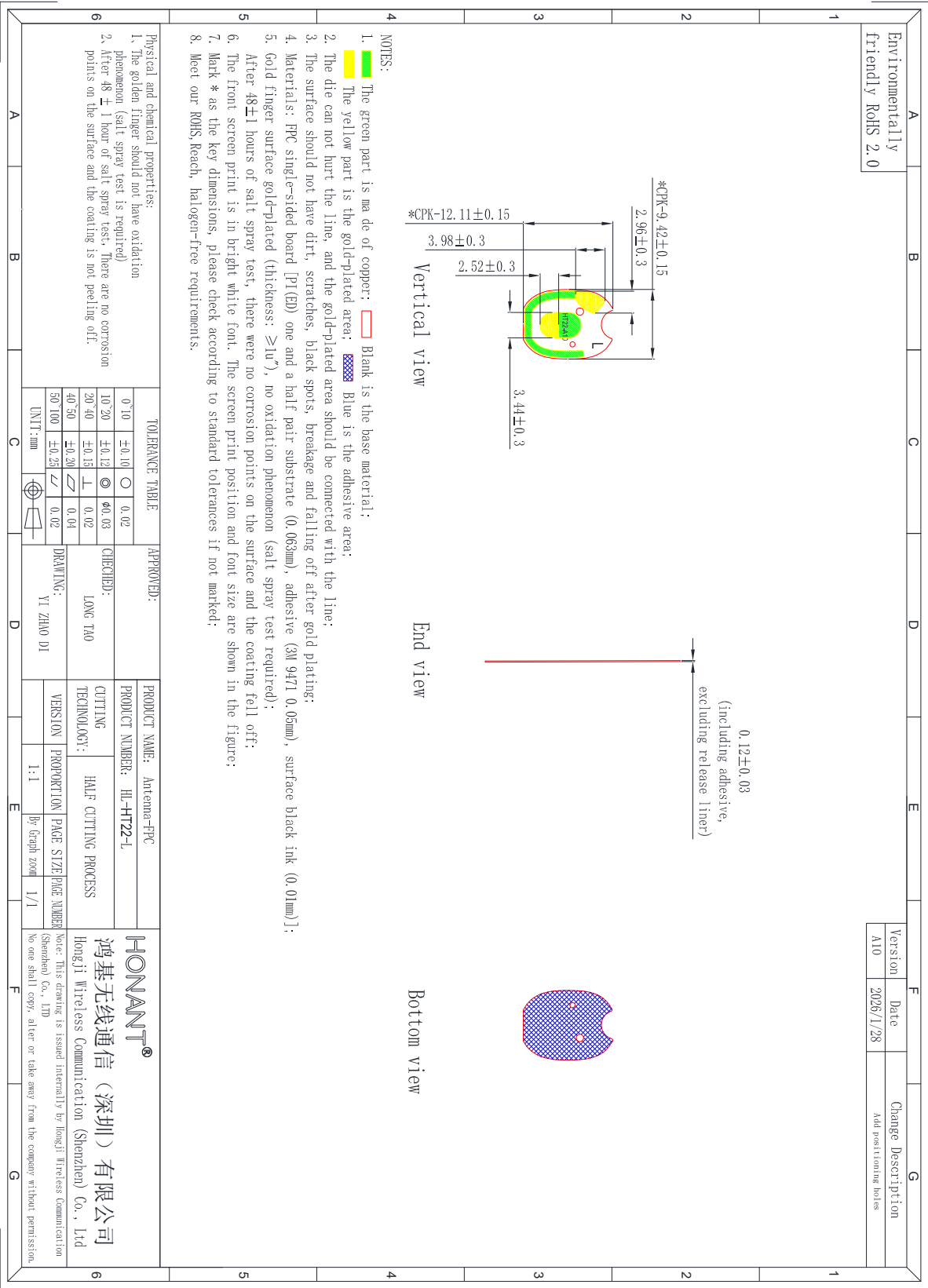
Phi=90 freq=2400MHz



Theta=90 freq=2400MHz



3.1: Antenna Drawing-L



3.2: Antenna Drawing-R

