

# Antenna Specification for Approval

Customer Name: GUANGDONG HENGDI TECHNOLOGY CORP.,LTD.

Product Name: 2.4G antenna Total length 40mm white

Antenna Type: Wire Antenna

Part NO. : 17-0.10-1.6

Write By: Wang

Issued Date: 2023.10.10

**client:**

R&D Dept	Business Dept	Approved By

**HONGTIAN**

R&D Dept	Engineer Dept	Approval

## Product Specification

### A. Electrical Characteristics Frequency

2400MHz~2500MHZ

VSWR <3.0

Efficiency >30%

Impedance 50 Ohm

Polarization Line

Gain 0dBi

B. Material & Mechanical Characteristics

Material of Radiator Cu

Cable Type 1.0 19P

Connector Type : NO

Dimension

C.Environmental

Operation Temperature  $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

Storage Temperature  $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Test Equipment & Conditions

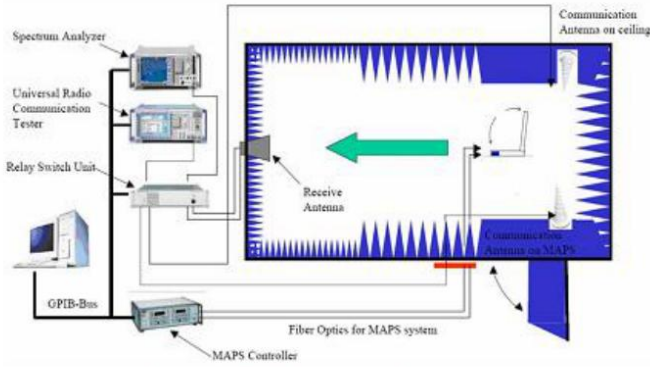
1. Network Analyzers :

Agilent 8753D 5071B

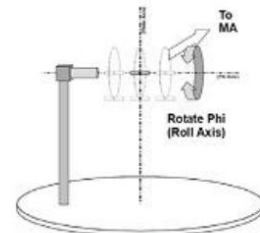
2. Communications Test Set:

Agilent E5515C

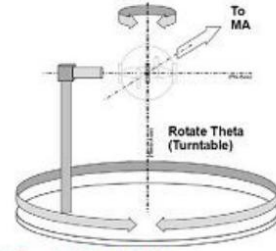
### 3. 3D Chamber Test System Efficiency & Gain



(Testing by 3D anechoic chamber)



Phi axis test

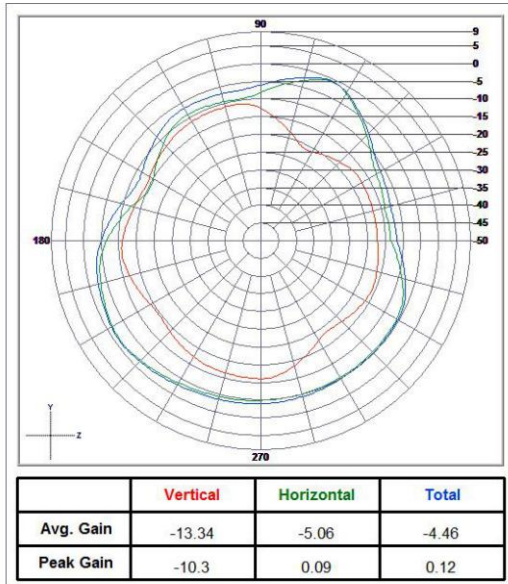
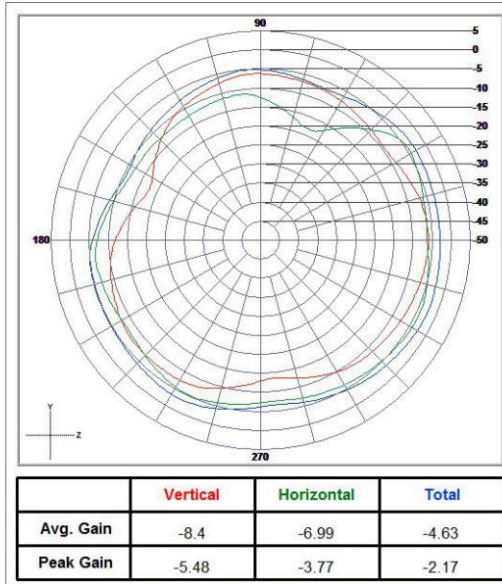


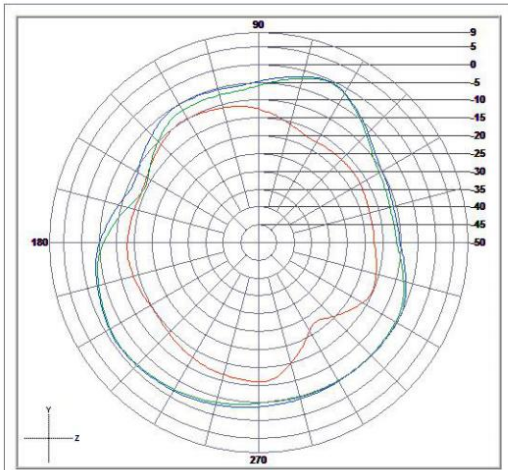
Theta axis test

### Efficiency & Gain

2.40      -0.00  
 2.440    -0.11  
 2.48      -0.13

### Radiation Pattern:





	Vertical	Horizontal	Total
Avg. Gain	-13.42	-4.6	-4.06
Peak Gain	-9.47	0.1	0.17

