

Antenna Specification for Approval

Customer Name: _____

Product Name: _____ 2.4G antenna

Product Name: _____

Part NO.: _____ Internal antenna

Write By: _____ Mr. zhou

Issued Date: _____ 2021-11-13

customer:

R&D Dept	Business Dept	Approved By

Supplier

R&D Dept	Engineer Dept	Approval

Product Specification

A. Electrical Characteristics

Frequency 2400MHz ~2500MHz

VSWR <1.0

Efficiency >36.69%

Impedance 50 Ohm

Polarization Line

Gain 1DBi

B. Material & Mechanical Characteristics

Material of Radiator Cu

Cable Type : NO

Connector Type : NO

Antenna type: monopole

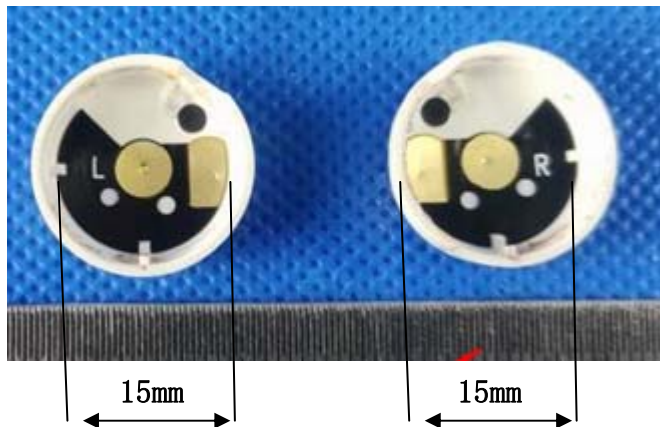
Dimension

C. Environmental

Operation Temperature - 30 ° C ~ + 80 ° C

Storage Temperature - 30 ° C ~ + 85 ° C

Antenna Photo



Test Equipment & Conditions

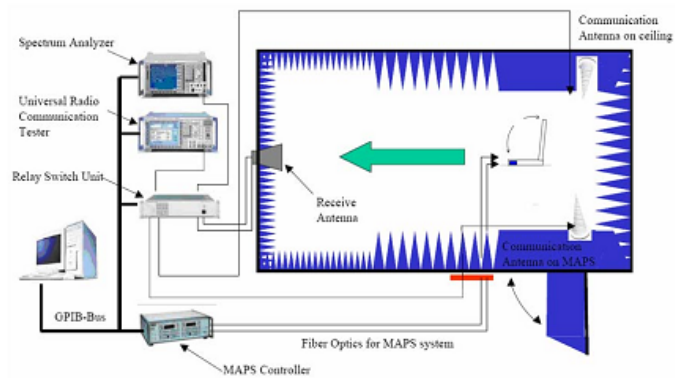
1. Network Analyzers :

Agilent 8753D 5071B

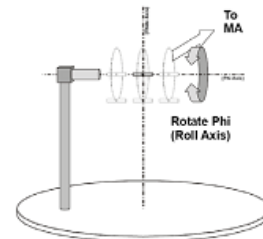
2. Communications Test Set:

Agilent E5515C

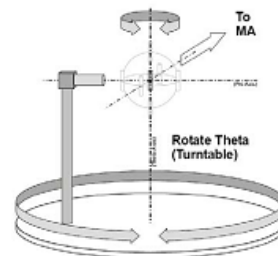
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



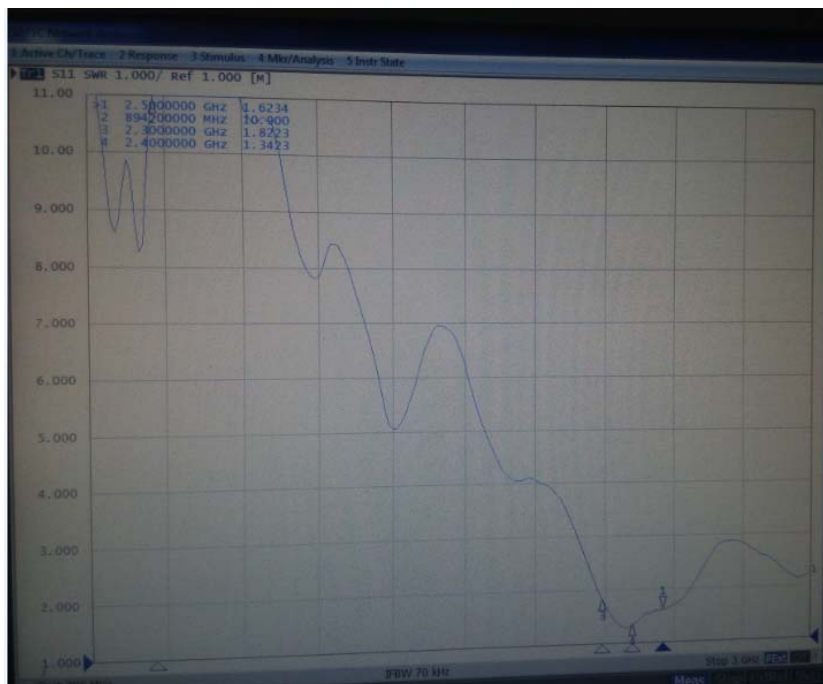
Phi axis test



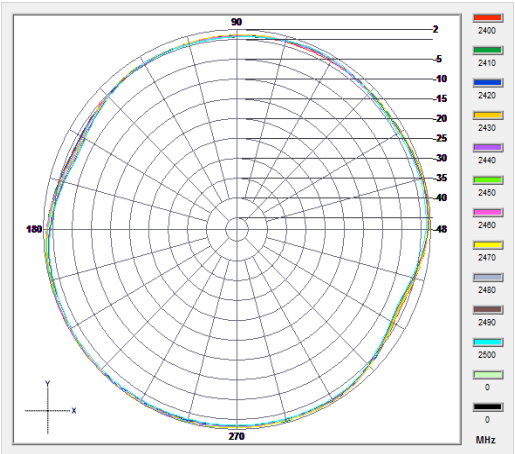
Theta axis test

Efficiency & Gain

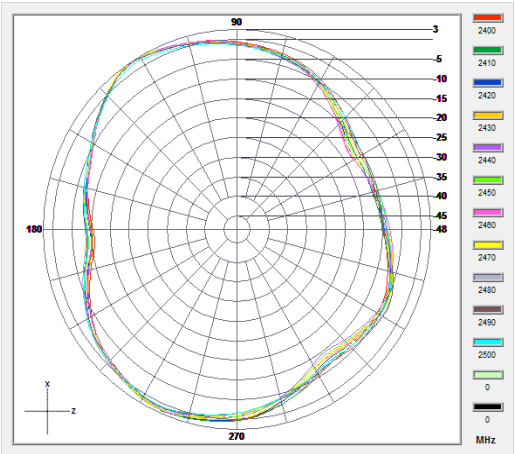
Freq (MHz)	Effi (%%)	Gain (dBi)
2400	33.85	0.42
2410	34.86	0.46
2420	32.78	0.81
2430	32.59	0.96
2440	36.69	1.00
2450	32.16	0.63
2460	31.67	0.89
2470	32.96	0.80
2480	32.45	0.70
2490	34.43	0.75
2500	33.48	0.39



Radiation Pattern:



XY



XZ

