

# Shenzhen Yuexin Technology Co., LTD

Customer Name: \_\_\_\_\_

Supplier specification model: 2.4GHz External antenna

Customer Material Code: 30110-01290

Customer Material Name: 2.4GHz External antenna

Customer specifications Model: 2.4G3DBI- antenna, line length 260±3mm, black, diameter 1.13mm

Factory seal:

approval	to examine	make

Customer  
acknowledges  
signature:  
approve

☐unqualified

Admitting the results: <input type="checkbox"/>	to examine	test
qualified		

(Customer) : \_\_\_\_\_

(Product) : 2.4GHz External antenna (L=260mm)

(Model) : \_\_\_\_\_

(Part Number) : 30110-01290

(Written By ) : \_\_\_\_\_

(Issued Date) : 2023-05-10

## CUSTOMER

ENGINEER R&D DEPT	QUALITY DEPT	APPROVED

## Free Walk

R&D DEPT	ENGINEER R&D DEPT	APPROVED

---

# Index

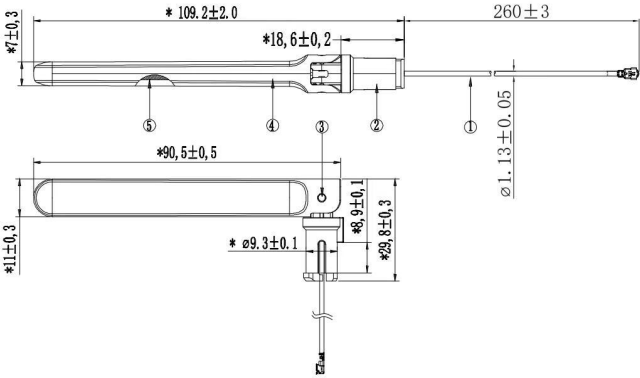
一、	(Cover) .....	1
二、	(Document Change Resume) .....	2
三、	( Index) .....	3
四、	( The basic parameters) .....	4
五、	( Product Drawing) .....	5
六、	(Test Equipment & Conditions) .....	6
七、	(Test Report) .....	7-10

---

## The basic parameters

A. Electrical Characteristics	
Frequency	2400 MHz ~2500MHz
VSWR	$\leq 2$
Efficiency	>60%
Impedance	50 Ohm
Polarization	Linear
Gain	2dBi $\pm$ 1
B. Material & Mechanical Characteristics	
Material of Radiator	
Cable Type	$\Phi$ 1.13mm    Black
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 40 °C ~ + 80 °C

# Product Drawing



---

## Test Equipment & Conditions

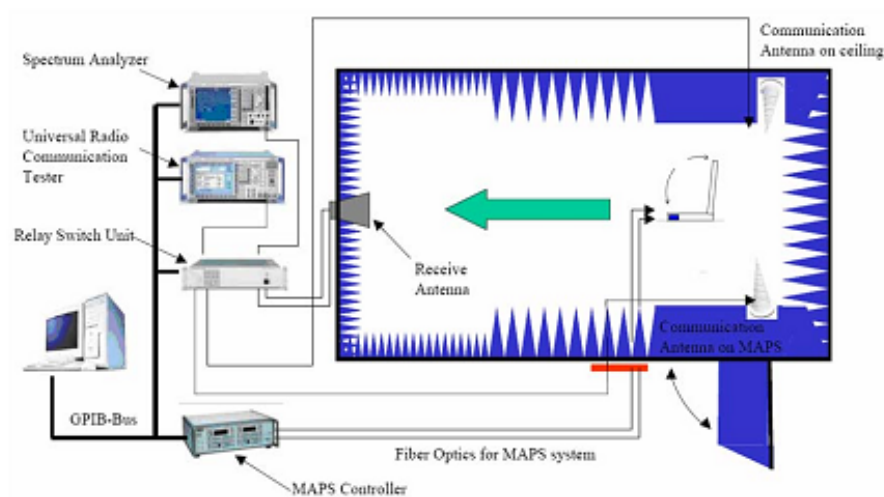
### 1. Network Analyzers :

Agilent 8753D    5071C

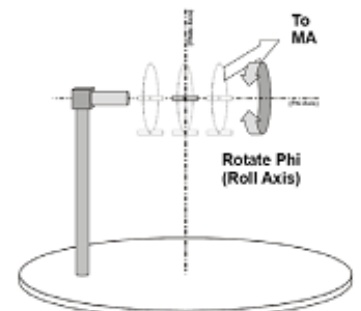
### 2. Communications Test Set:

Agilent    8960    CMW500

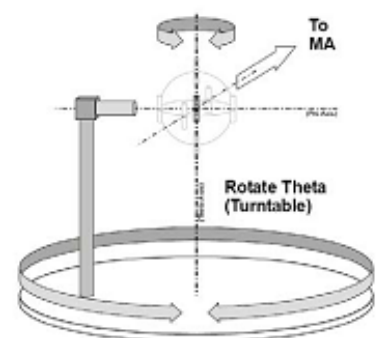
### 3. 3D Chamber Test System



**(Testing by 3D anechoic chamber)**

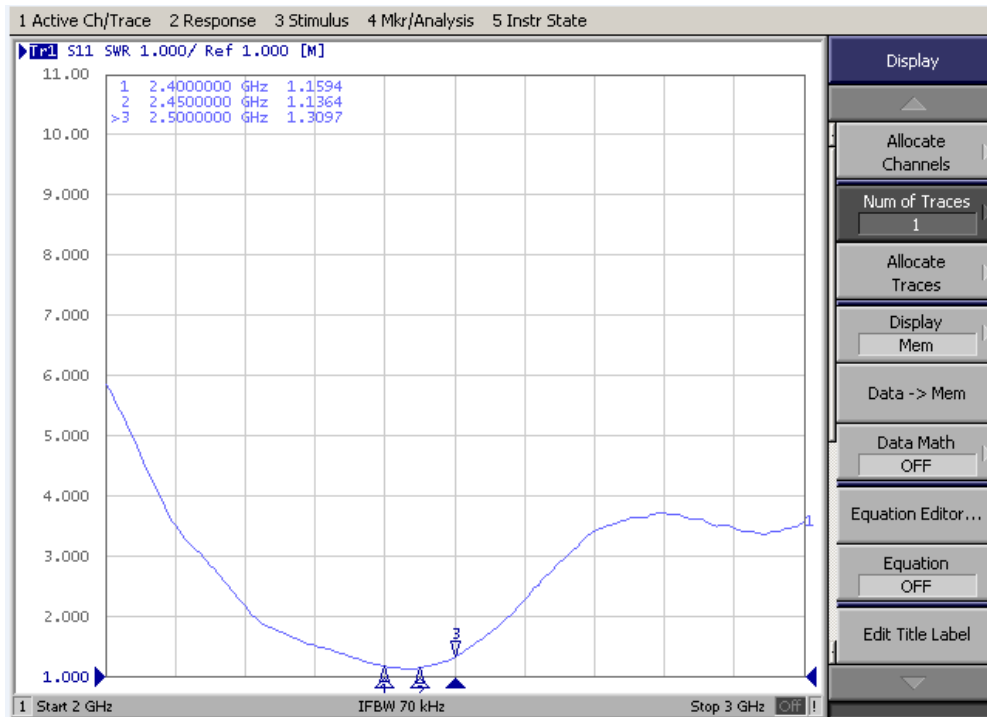


**Phi axis test**

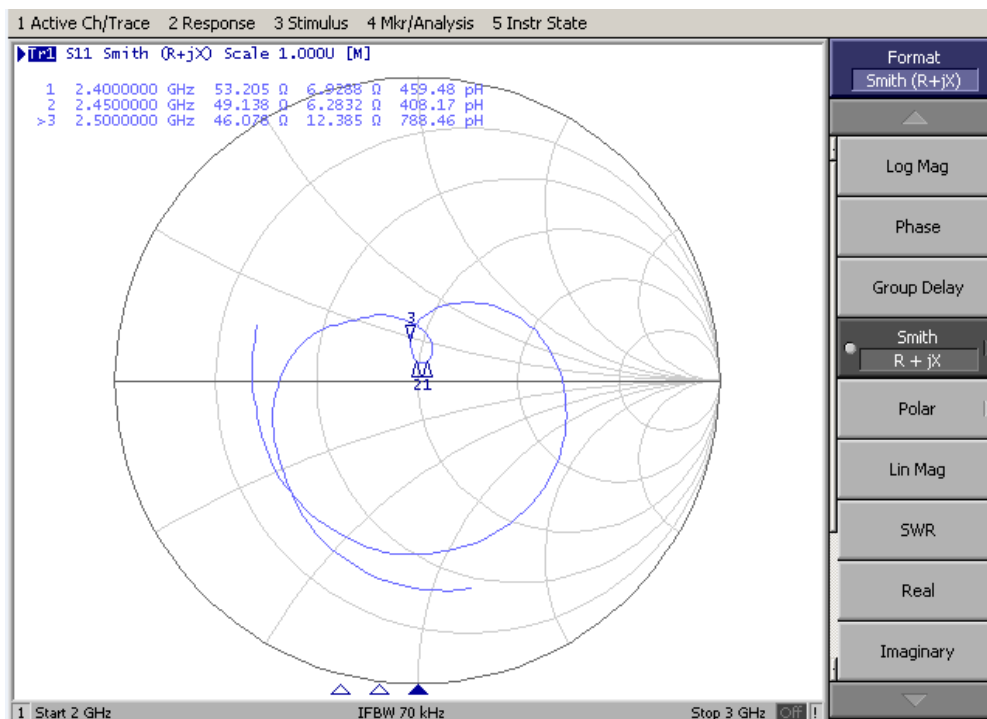


**Theta axis test**

# SWR



# Smith



---

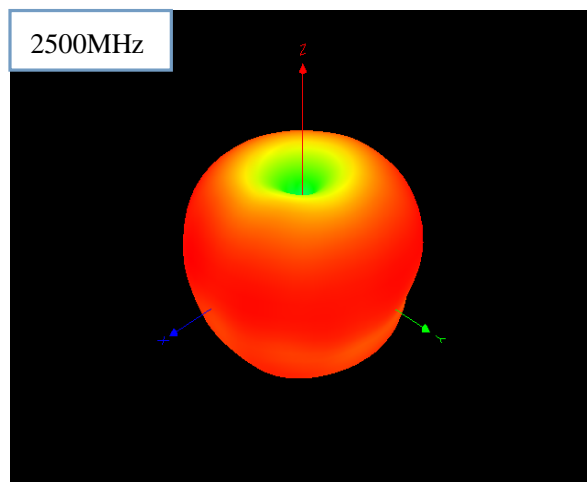
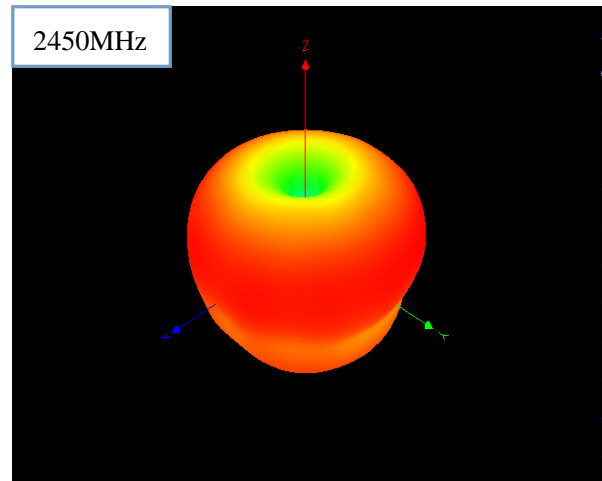
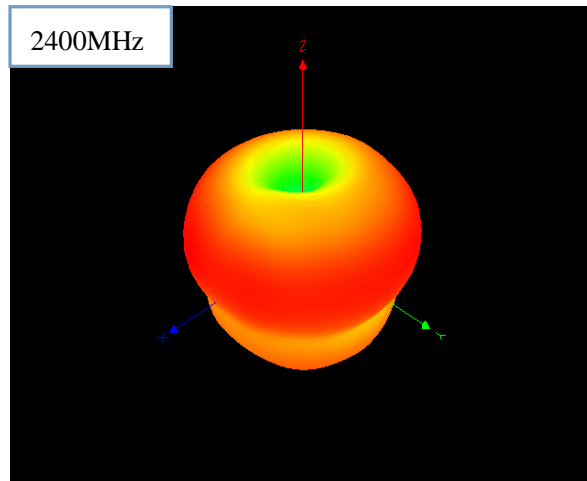
# Efficiency&Gain

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	65.63	-1.83	2.71	0.56	26.643	38.985	2.71	-10.33	4.53	0	45.51	45.06
2450	64.1	-1.93	2.77	0.62	25.861	38.239	2.77	-12.76	4.7	0	45.36	44.92
2500	70.39	-1.52	3.09	0.94	28.498	41.892	3.09	-12.87	4.62	0	45.93	45.51



---

# Patten



# Patten

