

Antenna Specification

Product:WIFI7 external antenna

Model:2.4G/ 5G / 7G WIFI7 external antenna

Part Number:NF11-2100000222

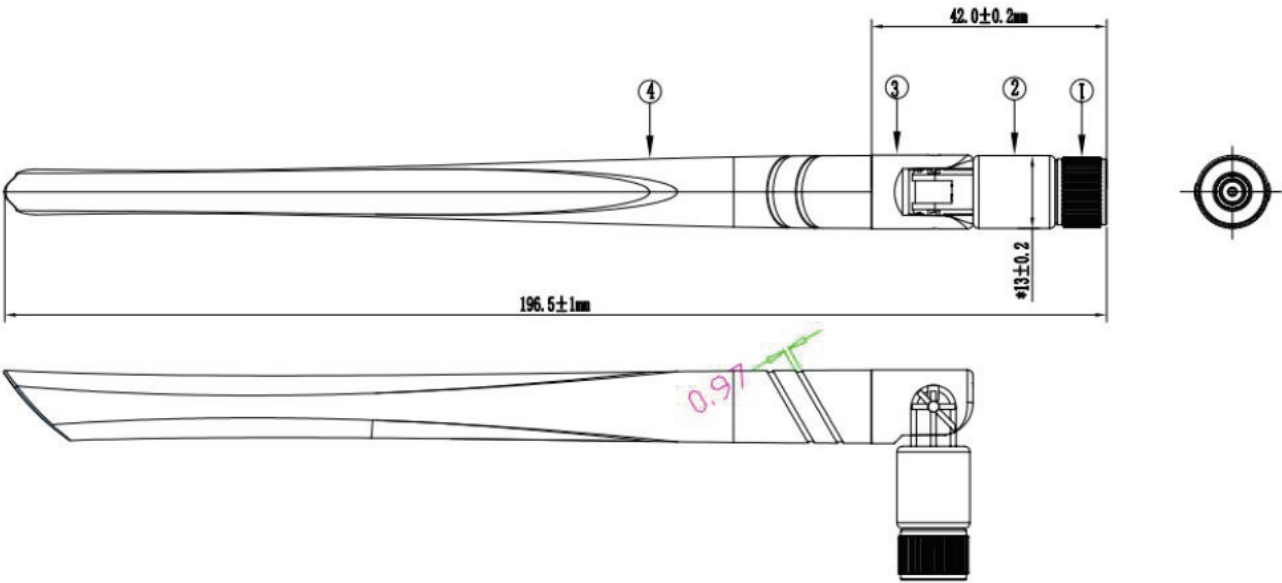
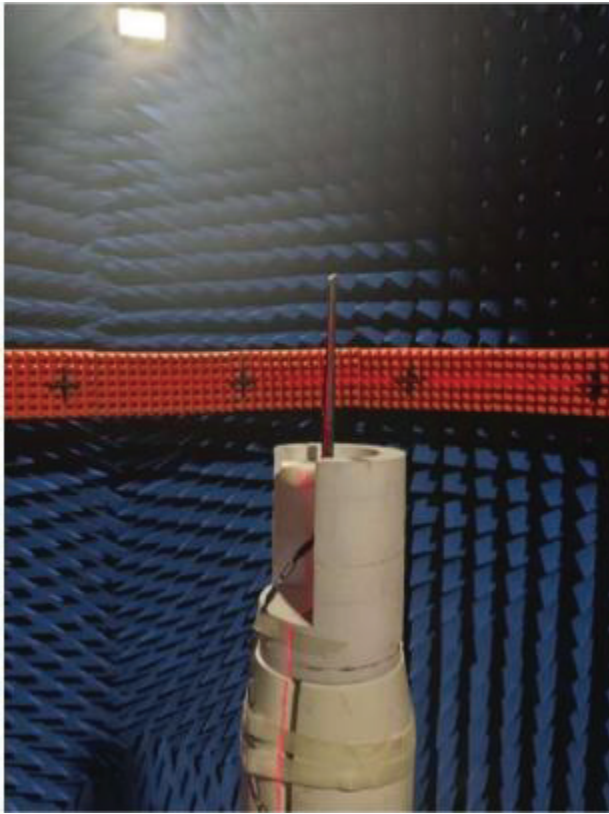
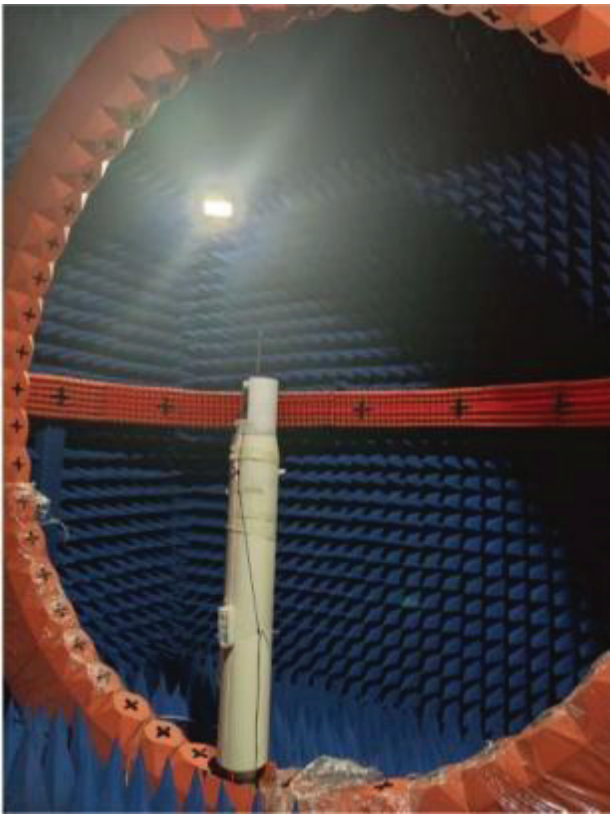
Manufacturer: Shenzhen NuphizTechnologies Co.,Ltd

Address:Block C, Jiefang South Road, Xiyong Industrial Zone, Lunjiao Town, Shunde District, Foshan City, Guangdong Province

Antenna information

Length	196. 50 $\pm$ 1mm
Mounting Style	N/A
Packaging Type	PET Bag
Polarization	Linear
Radiation Pattern	Omni-directional
Width	13. 00 $\pm$ 1mm

1. Test photo and Antenna size



2. Antenna Specifications

2.4G/5G Specification Table

Main technical specification	
Frequency range (MHz)	2400-2500 5150-5850
Characteristic impedance (Ω)	50
Peak gain (dBi)	2.4G 1.73 5.8G 3.42
VSWR	≤ 2.0
Polarization mode	Linear polarization
Average efficiency(%)	2.4G 76% 5.8G 68%
Physical characteristics	
Pack	PEbag
Storage temperature	-40°C~+70°C
Working temperature	-10°C~+60°C

7G Specification Table

Main technical specification	
Frequency range (MHz)	5900-7150
Characteristic impedance (Ω)	50
Peak gain (dBi)	2.84
VSWR	≤ 2.0
Polarization mode	Linear polarization
Average efficiency(%)	84%
Physical characteristics	
Pack	PEbag
Storage temperature	-40°C~+70°C
Working temperature	-10°C~+60°C

3. Test Equipment & Conditions

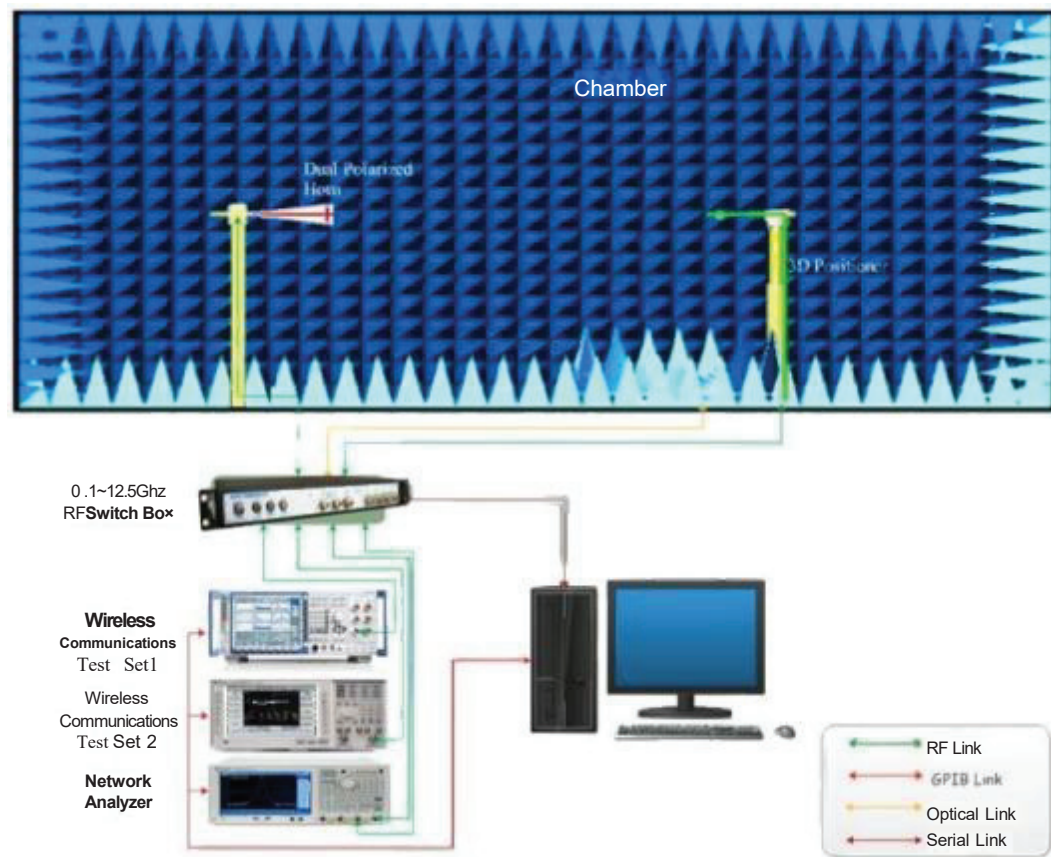
3.1. Network Analyzers:

Agilent 5071C

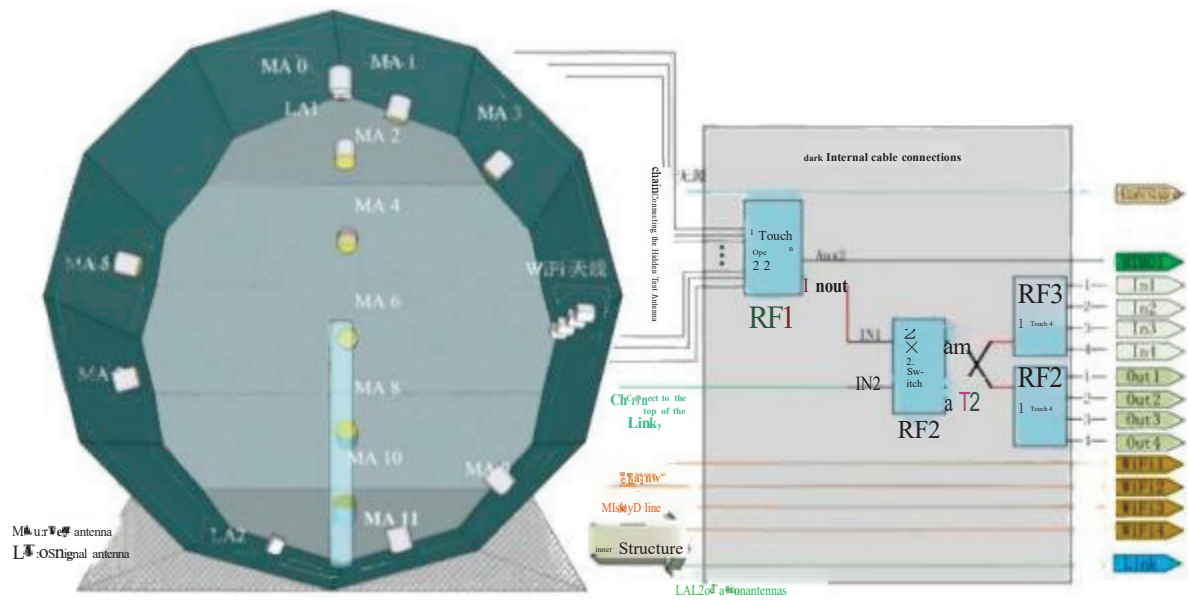
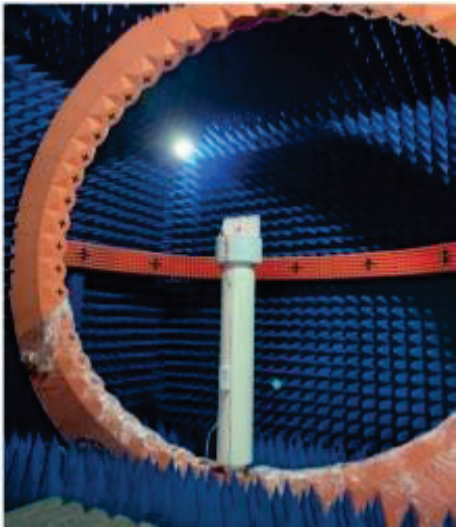
3.2. Communications Test Set:

Rohde & Schwarz CWM500

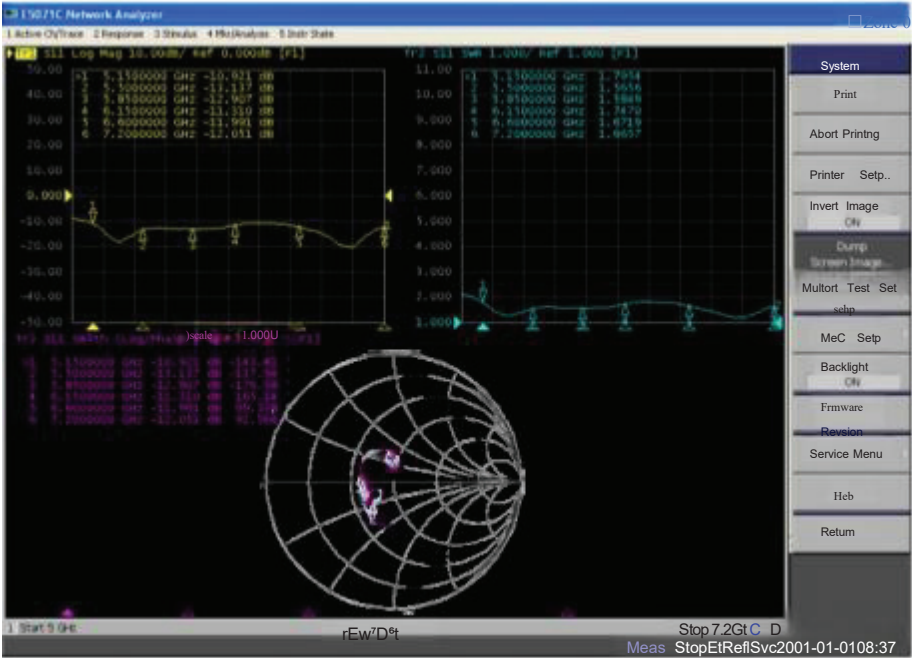
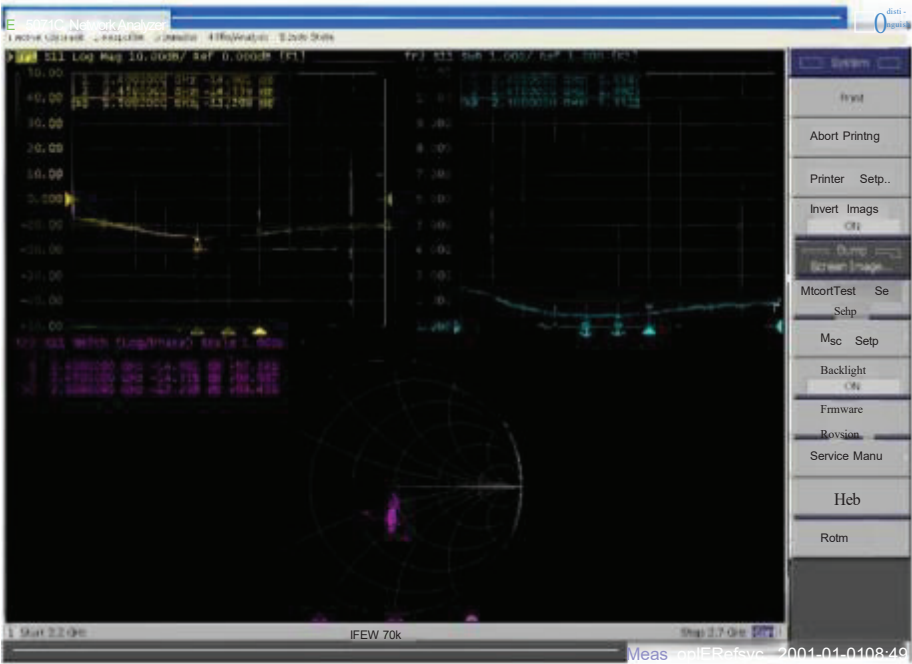
3.3. 3D Chamber Test System



3.4 Microwave Measurement in an Anechoic Chamber



3.5 S Parameter



4. Efficiency & Gain

Frequency/Mhz	Efficiency/%	MaxGain/dBi	Frequency/Mhz	Efficiency/%	MaxGain/dBi
2.4G			6E		
2400	77.27	1.1	5900	74.64	2.31
2410	77.27	1.12	5950	74.47	2.19
2420	76.91	1.19	6000	74.99	2.26
2430	73.96	1.01	6050	81.47	2.42
2440	74.3	1.23	6100	78.89	2.34
2450	71.94	1.01	6150	78.52	2.12
2460	74.3	1.15	6200	86.3	2.74
2470	76.21	1.27	6250	80.35	2.22
2480	78.34	1.69	6300	83.18	2.29
2490	77.09	1.73	6350	88.51	2.31
2500	76.38	1.58	6400	85.11	2.26
5G			6450	83.56	2.1
5150	58.88	3.03	6500	82.99	2.1
5200	58.08	2.85	6550	85.9	2.04
5250	64.42	3.42	6600	85.11	2.32
5300	64.71	2.52	6650	84.53	2.26
5350	67.45	2.88	6700	85.7	2.41
5400	69.34	2.73	6750	88.31	2.5
5450	71.29	2.46	6800	89.54	2.84
5500	68.55	2.63	6850	88.72	2.48
5550	72.61	2.38	6900	89.13	2.57
5600	73.45	2.61	6950	92.9	2.8
5650	69.18	2.2	7000	89.74	2.59
5700	70.47	2	7050	90.36	2.66
5750	76.21	2.54	7100	89.95	2.65
5800	76.21	2.42	7150	89.13	2.62
5850	72.61	2.33			

5. Directional map

