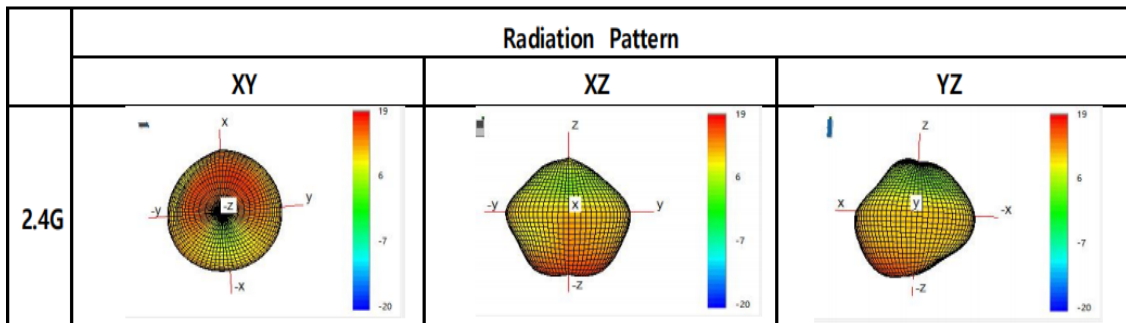
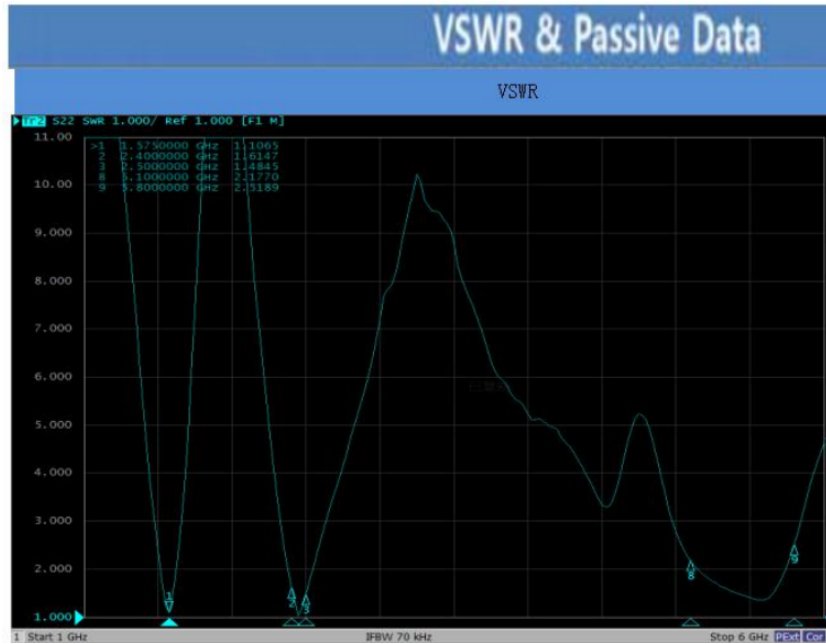


# Antenna Specifications

Model : C50

1、Bluetooth&2.4G WIFI  
VSWR& Passive Data



Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	30.31	-5.18	-1.79	-3.94	14.91	15.401	-1.79	-13.92	52.57	52.52
2410	31.72	-4.99	-1.66	-3.81	15.8	15.899	-1.66	-13.98	52.61	52.56
2420	32.81	-4.84	-1.46	-3.61	16.206	16.602	-1.46	-13.79	52.49	52.49
2430	35.39	-4.51	-1.23	-3.43	18.872	16.516	-0.93	-13.79	52.55	52.52
2440	36.78	-4.34	-1.29	-3.48	19.347	17.436	-0.98	-14.65	52.69	52.57
2450	37.67	-4.24	-1.20	-3.36	19.064	18.606	-0.91	-13.45	52.92	52.78
2460	36.18	-4.41	-1.25	-3.40	17.672	18.511	-1.05	-12.76	52.79	52.62
2470	35.64	-4.48	-1.27	-3.42	18.945	16.698	-1.27	-14.43	52.83	52.65
2480	35.39	-4.51	-1.33	-3.52	18.872	16.516	-0.93	-13.79	52.81	52.65
2490	35.19	-4.54	-1.32	-3.47	18.847	16.343	-1.32	-13.96	53	52.81
2500	33.3	-4.78	-1.43	-3.58	17.382	15.914	-1.43	-14.8	53.02	52.84

## 2 Test Condition

### 2.1 Test Environment (Condition/Method)

#### ① Voltage Standing Wave Ratio(VSWR)

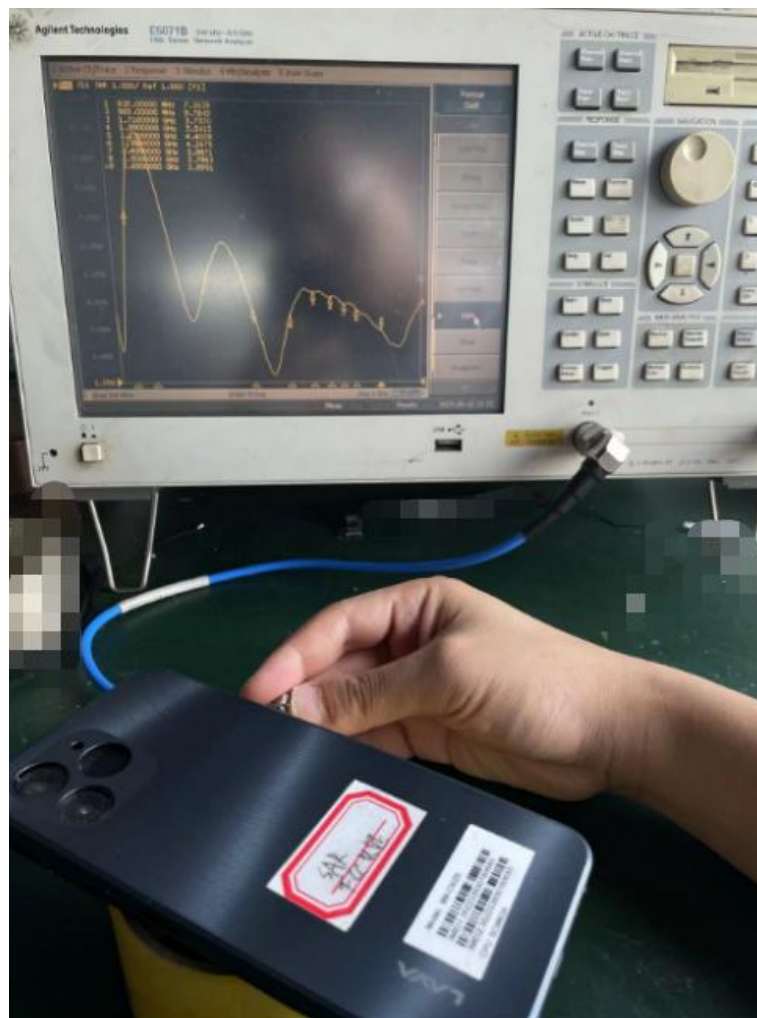
Step 1. Set the frequency range after connect 50cm cable to Network analyzer.

Step 2. Connect Calibration Kit to Network analyzer and calibrate.

Step 3. Fix the cable and keep separation distance over 30cm for reducing effect by Network analyzer.

Step 4. Fix insulator over 5cm on the bottom of measuring antenna.

Step 5. Measure VSWR with setting marker of desired frequency.

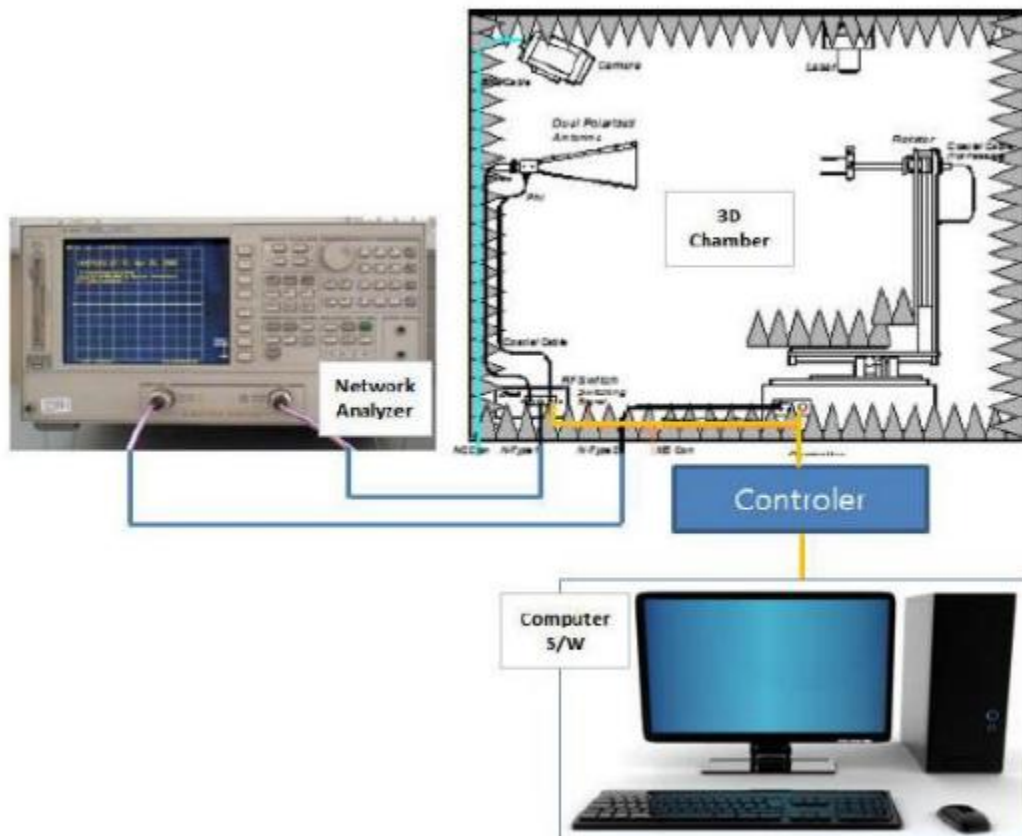


## ② Radiation & Gain

Step 1. Calibrate the Chamber system using Horn antenna, and set up the software to control the Chamber system at the same time.

Step 2. Keep the measuring antenna to holder.

Step 3. Measure Gain & efficiency.

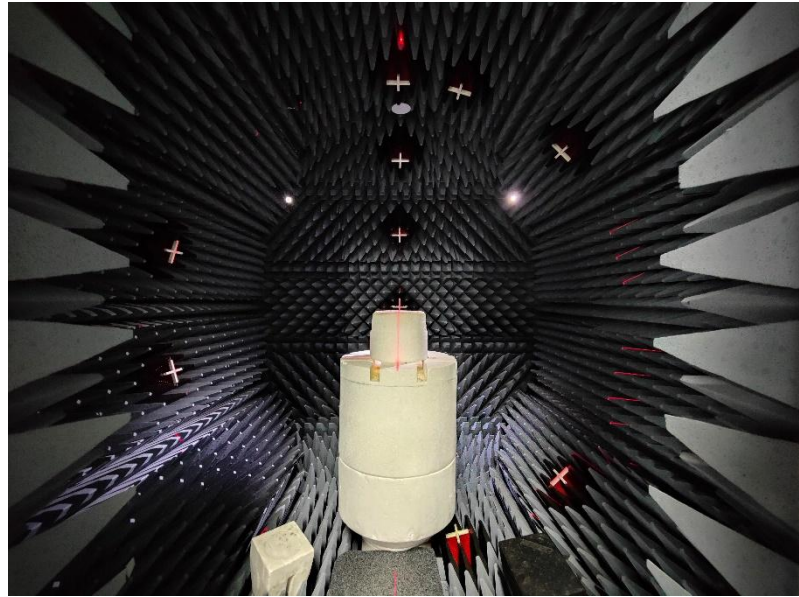


### 3 Antenna description

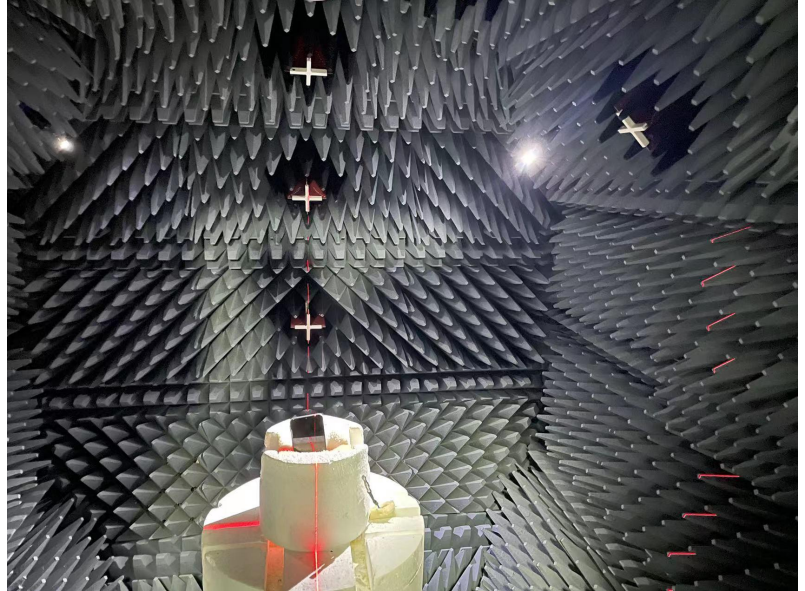
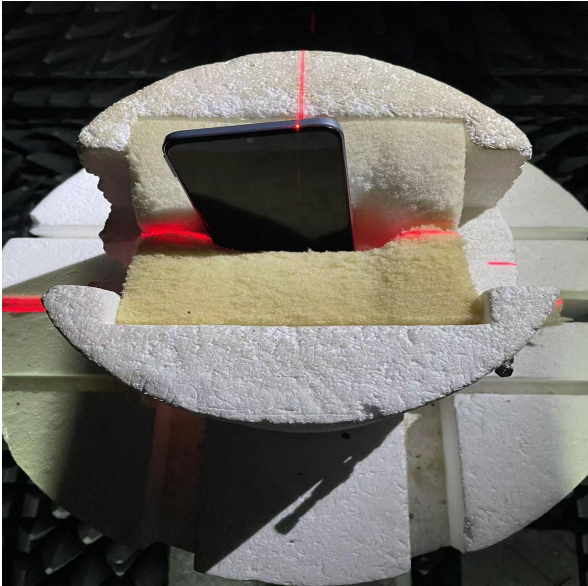
Type : PIFA

### 4 List of Measuring Equipment

#### Multi-Probe OTA Measurement System



DUT setup photo of free space OTA testing



### 5 Manufacturer

Name	shenzhen Fu Bang Wireless Technical Limited Company
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E-mail	eting2007@163.com
Equipment	GTS2800