

C50 Antenna

Specifications

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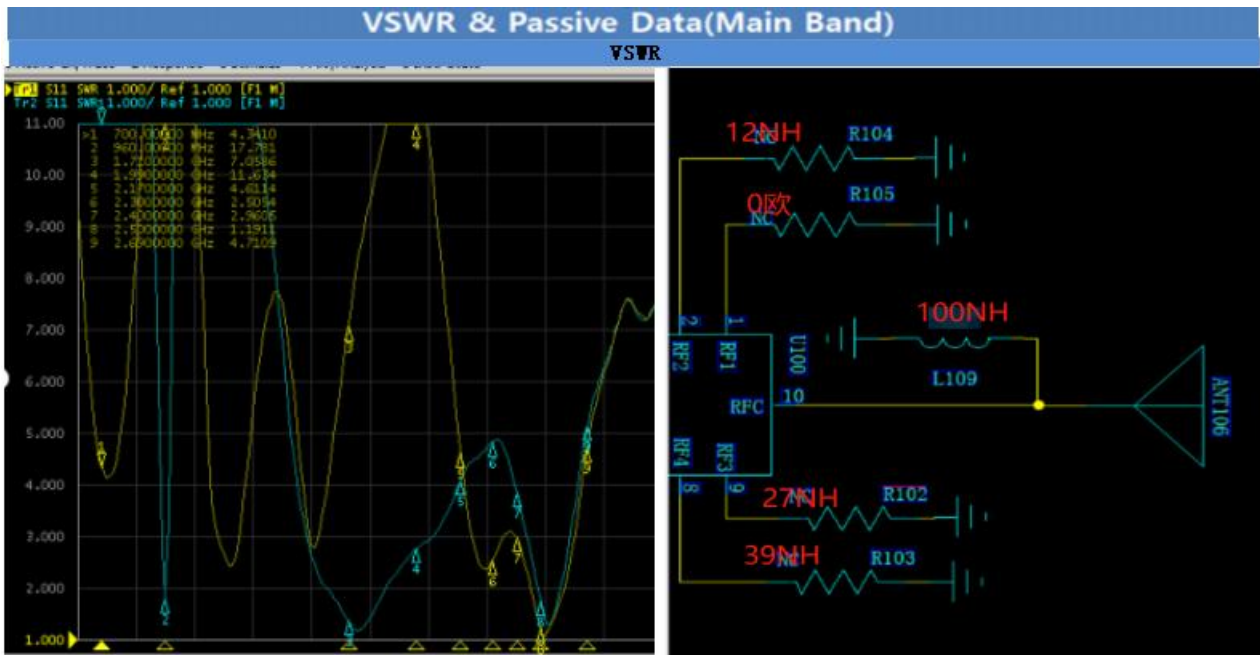
### 5 Manufacturer

# 1 Electronic Specification

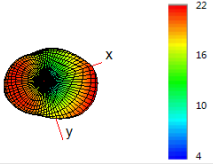
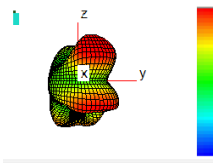
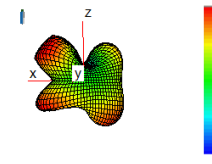
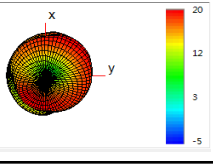
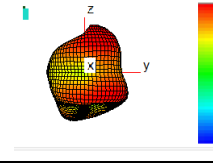
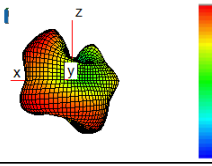
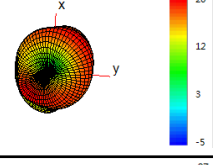
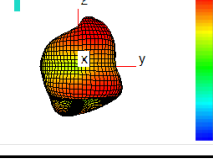
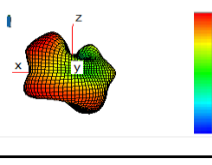
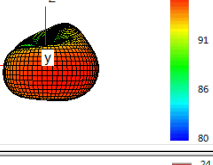
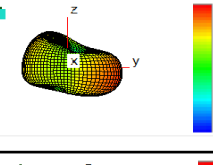
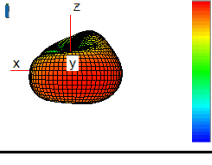
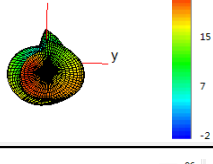
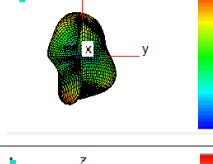
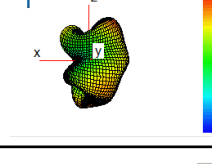
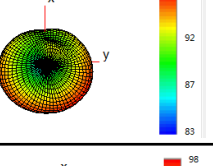
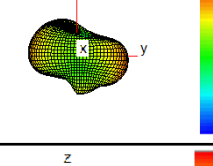
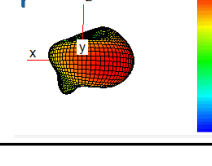
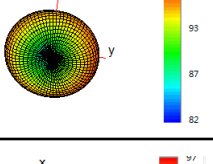
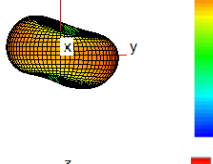
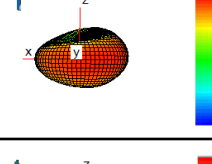
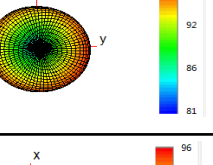
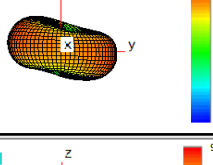
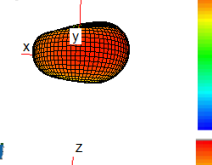
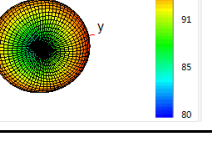
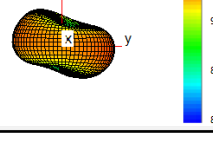
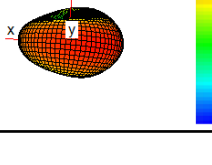
## 1.1 Top Antenna

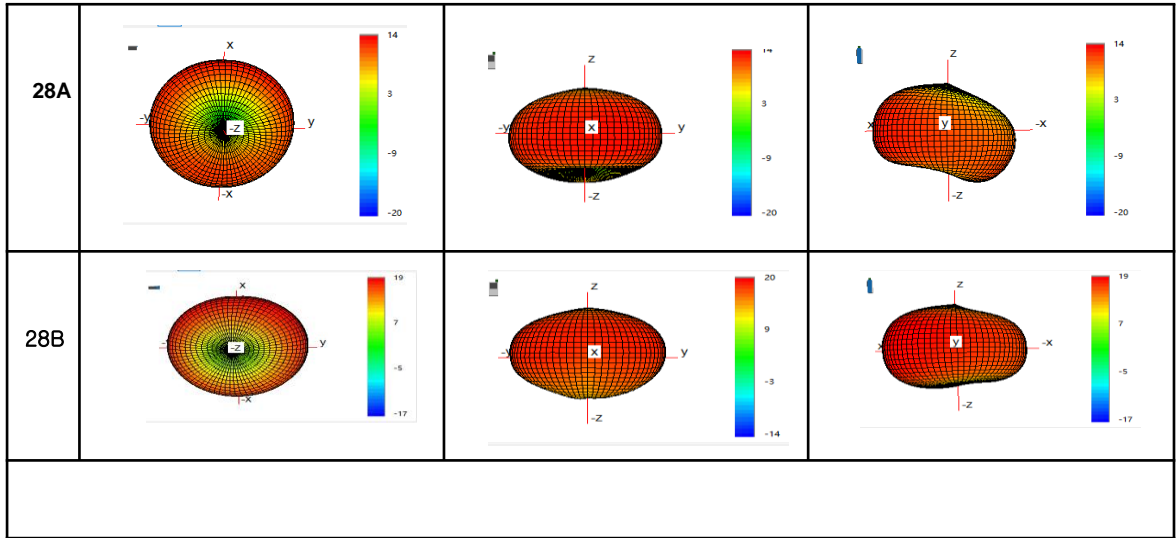
### 1.1.1 VSWR & Gain

① DRX Passive Data (分集)



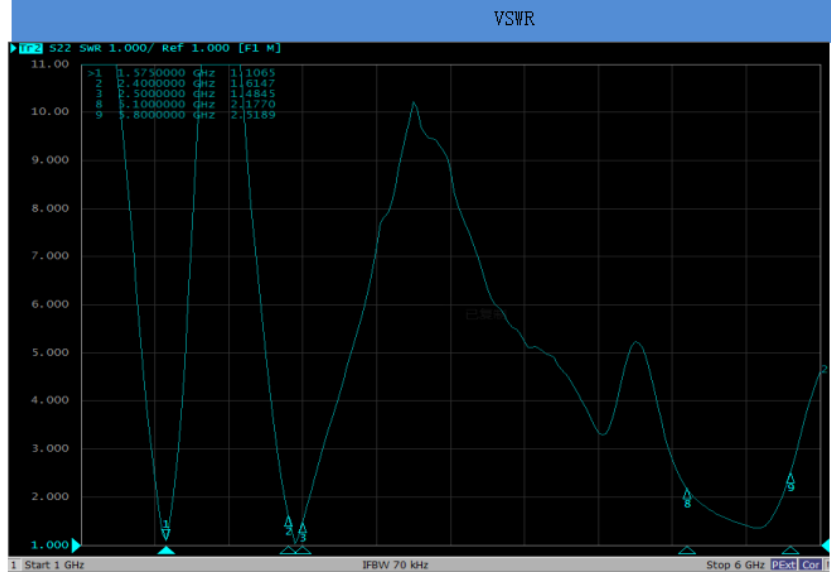
Gain					
Band	Freq[MHZ]	Switch Logic		Avg Gain[dbi]	Peak Gain[dbi]
DCS1800	1710-1880	RF1	0Ω	-5.6	-2.4
B2 {W2}	1850-1910	RF1	0Ω	-4.6	-3.3
	1930-1990			-4.5	-2.2
B4 {W4+B66}	1710-1755	RF1	0Ω	-4.6	-2.4
	2110-2155			-5.5	-2.4
B5 【GSM850+W5】	869-894	RF2	12NH	-8.3	-5.6
B41	2500-2690	RF1	0Ω	-4.5	-2.6
GSM900+W8	925-960	RF1	0Ω	-7.8	-4.6
B12	729-746	RF3	27NH	-8.7	-5.2
B13	746-756	RF3	27NH	-8.7	-5.1
B17	734-746	RF3	27NH	-9.6	-7
28A	763-775	RF3	27NH	-9.8	-7.1
28B	785-797	RF3	27NH	-9.8	-7.1

		Radiation Pattern		
		XY	XZ	YZ
Main(ANTO)	B2			
	DCS 1800			
	B4 (66)			
	B5			
	B38			
	W8			
	B12			
	B13			
	B17			

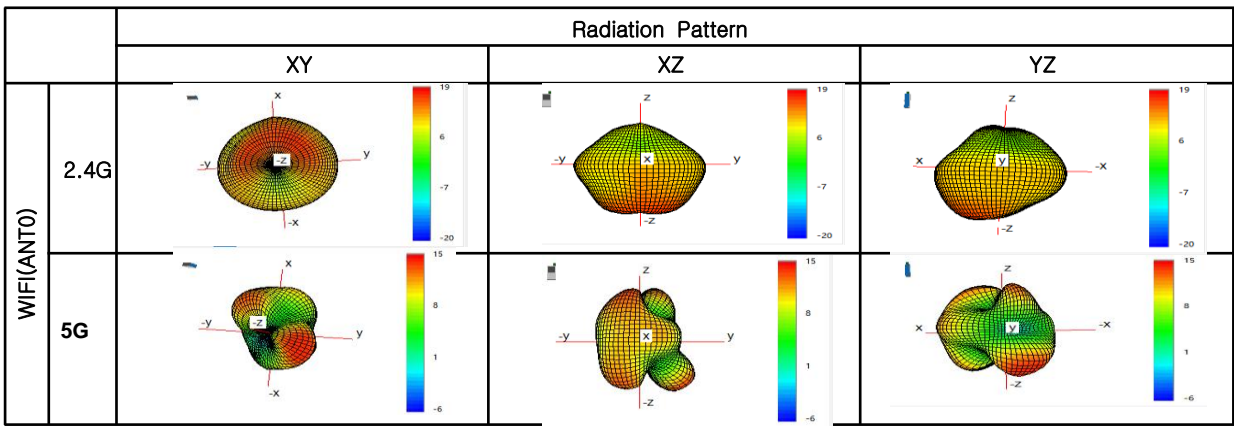


③ WIFI Passive Data (四合一)

## VSWR & Passive Data



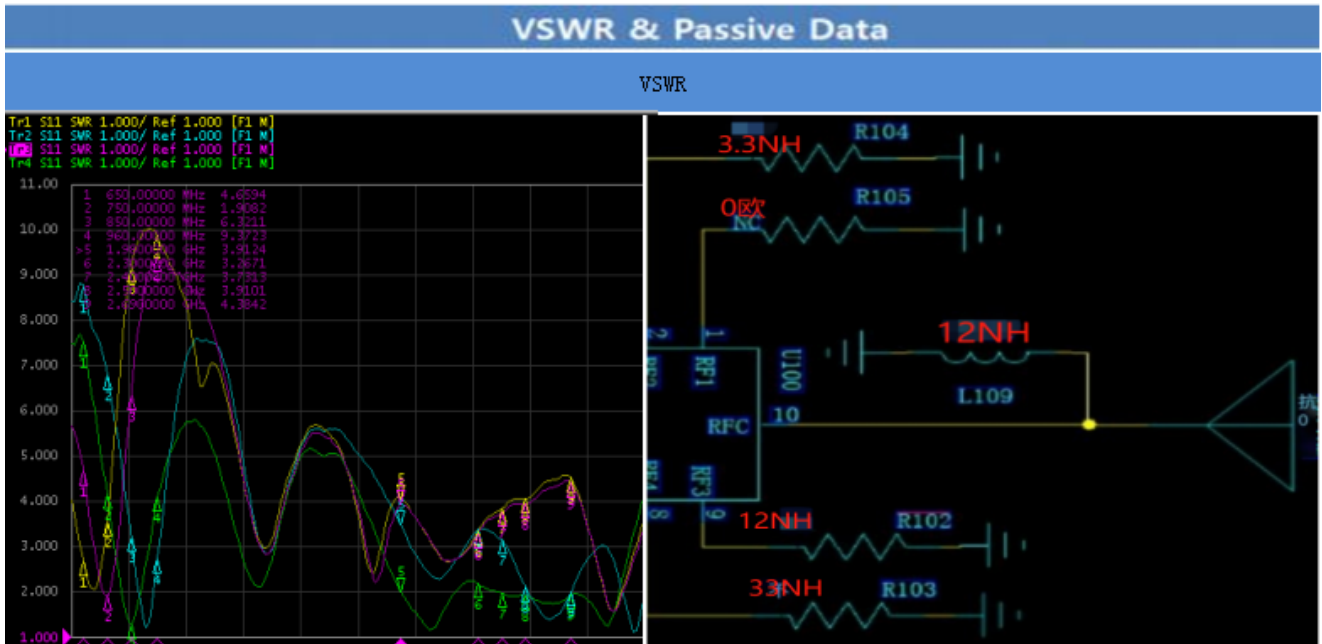
Band	Freq[MHZ]	Switch Logic	Avg Gain[dBi]	Peak Gain[dBi]
2.4G	2400-2500		-4.8	-1.2



## 1.2 BTM Antenna

### 1.2.1 VSWR & Gain

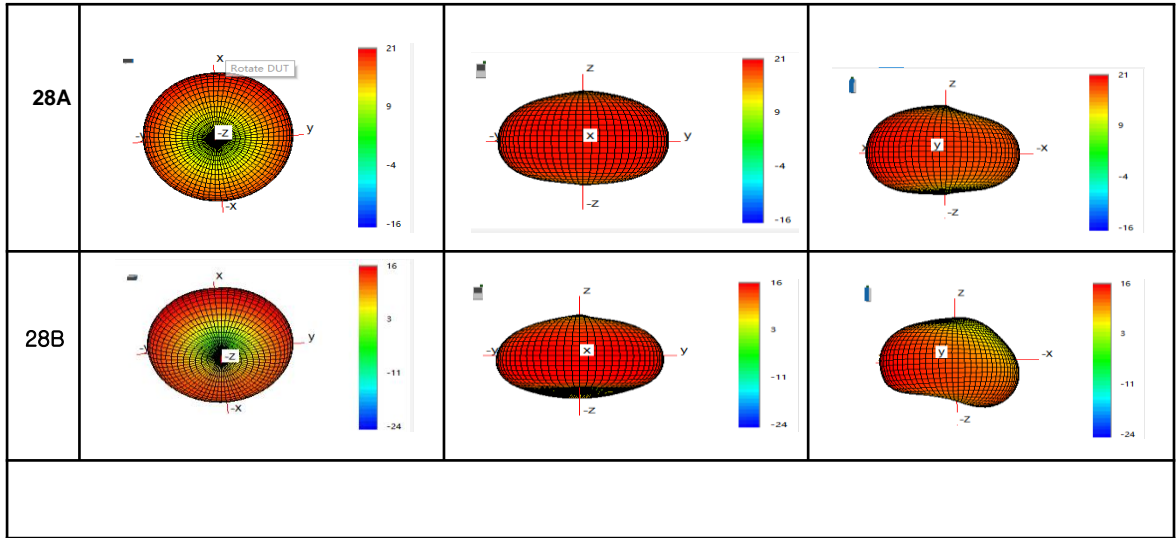
#### ① Main Passive Data (主集)



Band	Freq[MHZ]	Switch Logic	Avg Gain[dBi]	Peak Gain[dBi]	
DCS1800	1710-1880	RF2	3.3NH	-4.9	-1.9
W2	1850-1990	RF2	3.3NH	-5.8	-1.8
B4 {W4+B66}	1710-1755	RF2	3.3NH	-4.9	-1.8
	2110-2155			-6.1	-3.1
B5 【GSM850+W5】	824-894	RF2	3.3NH	-5.5	-2.9
B38	2570-2620	RF1	0Ω	-5.2	-1
GSM900+W8	880-960	RF1	0Ω	-5.8	-2.5
B12	699-746	RF4	33NH	-5.4	-3
B13	777-787	RF3	15NH	-5.9	-3
	746-756			-5.8	-3
B17	704-746	RF4	33NH	-5.4	-3
28A	708-720	RF4	33NH	-6	-2.7
	763-775			-6.1	-2.9
28B	730-742	RF3	12N	-5.8	-2.7
	785-797			-5.8	-3

		Radiation Pattern		
		XY	XZ	YZ
Main(ANTO)	B2			
	DCS 1800			
	B4 (66)			
	B5			
	B38			
	W8			
	B12			
	B13			
	B17			





## 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.

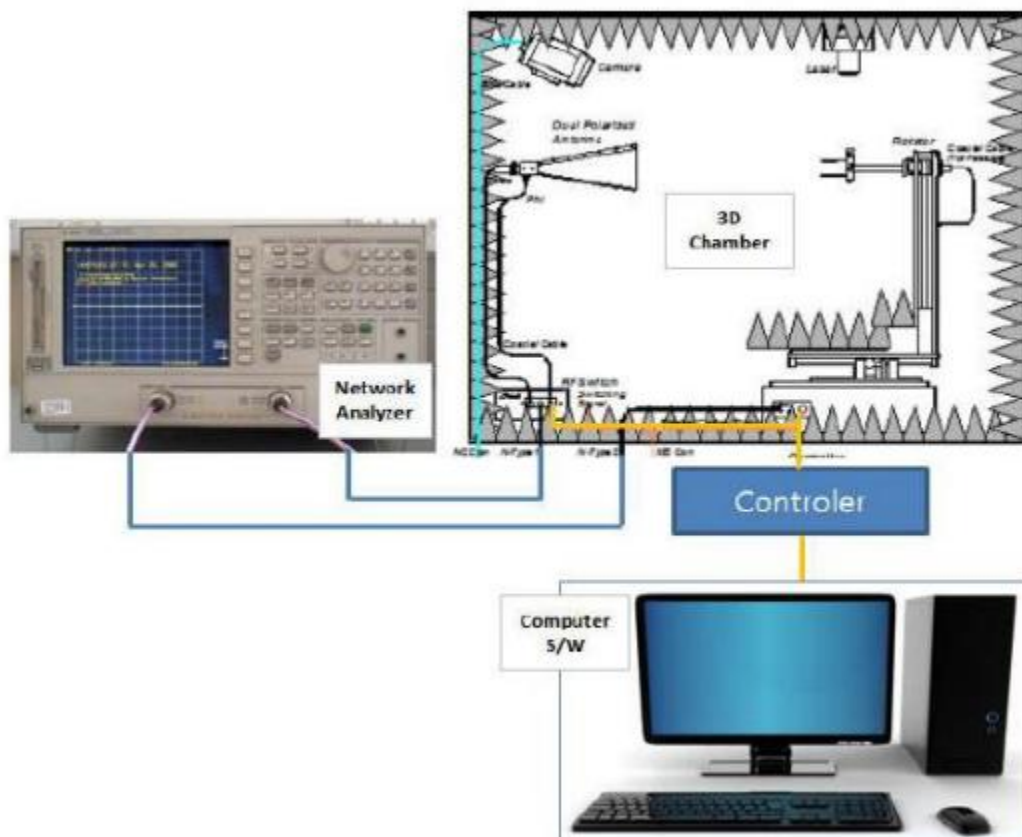


## ② Radiation & Gain

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.



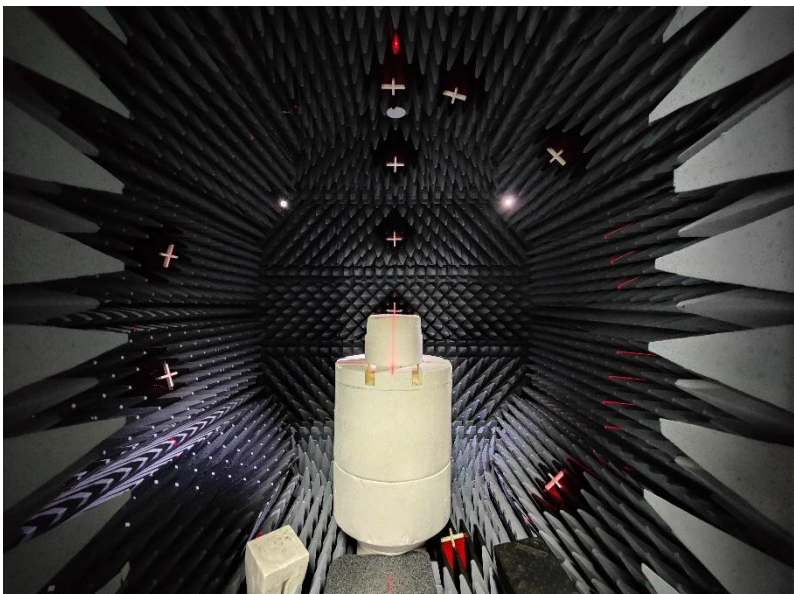
### 3 Antenna description

Type : PIFA

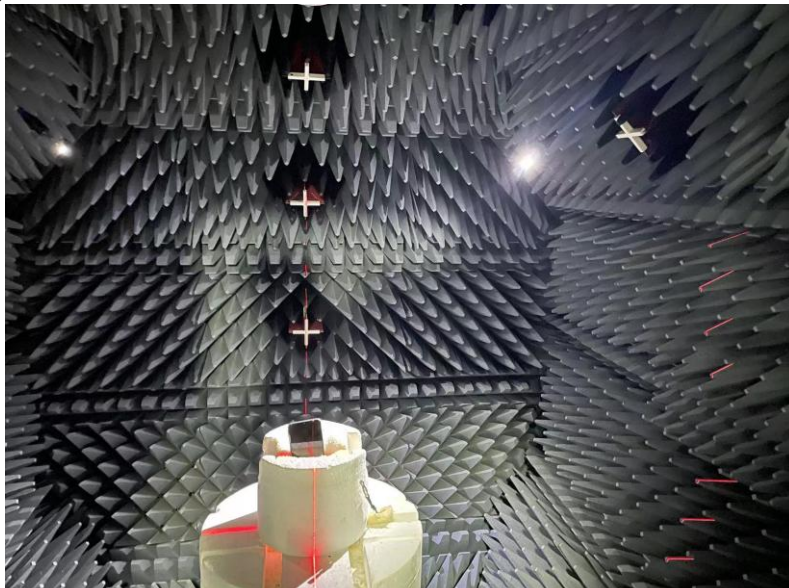
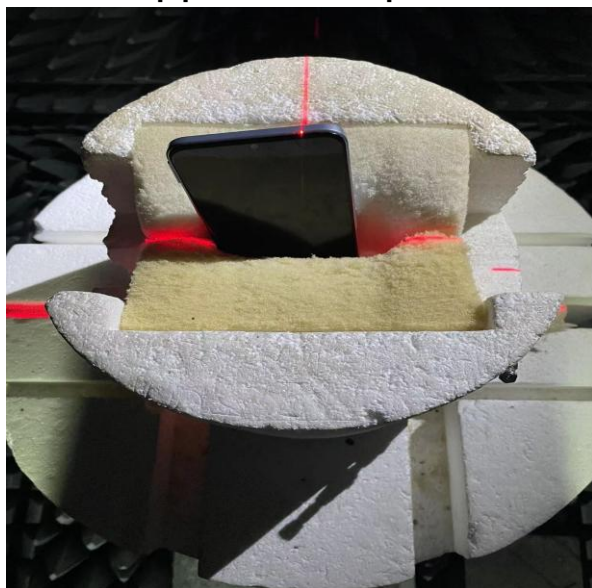
### 4 List of Measuring

Equi

### Multi-Probe OTA Measurement System



DUT setup photo of free space OTA testing



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Name	shenzhen Fu Bang Wireless Technical Limited Company
Address	3th Floor, Building T1, Lianjian Industrial Park, Huaxing Road, Longhuadalang District, Shenzhen
Tel	13691727201
E-mail	eting2007@163.com
Equipment	GTS2800

Model Name	A25	Coosea Group Co,ltd	Fu Bang	Part Number	ALDMARG
Revision	1.0			Revision date	2023-07-22

## 2. Product Specification

### 2.1 EUT appearance

Specification

FPC



ANT1: DIV RX  
2G: GSM 850/900/1800/1900  
3G: WCDMA B 2/4/5/8  
4G: FDD-LTE LTE:  
B 2/3/4/5/7 112/13/17/28/38/66

ANT0: Main TX  
2G: GSM 850/900/1800/1900  
3G: WCDMA B 2/4/5/8  
4G: FDD-LTE LTE:  
B 2/3/4/5/7 112/13/17/28/38/66

Model Name	A25	Coosea Group Co.,Ltd.	Fu Bang	Part Number	ALDMARG
Revision	1.0			Revision date	2023-07-22

## 2.Product Specification

### 2.2 Size and shape\_Pattern

