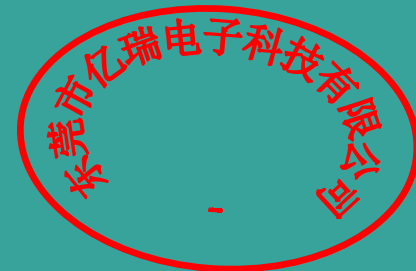


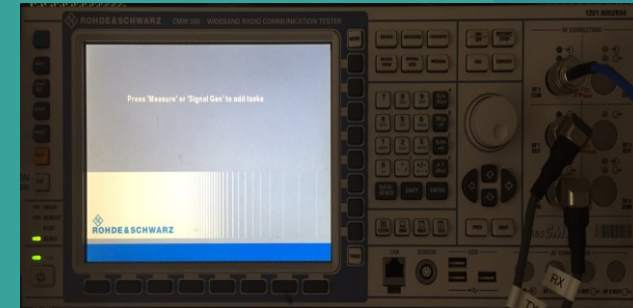
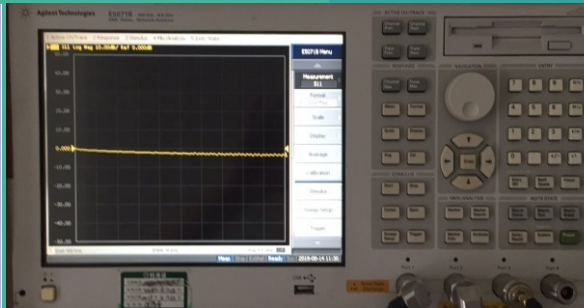
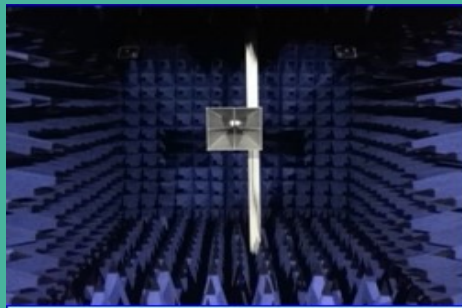
2400-2500MHz Antenna test report

- Customer name: chuangdong
- Project name : Keyboard
- Frequency : 2400-2500MHz
- Debugging time : 2023-12-15

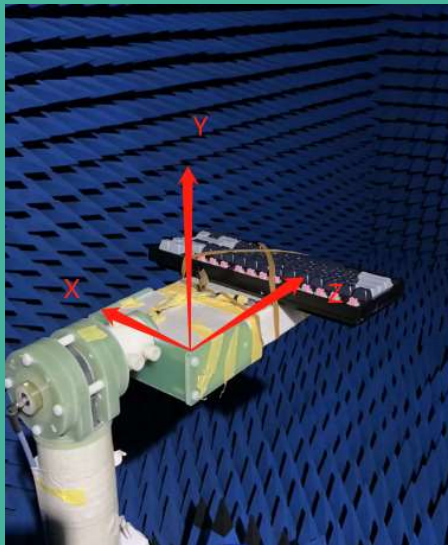


1、Test environment

/	Test items	Equipment		
		Equipment	Model No	Manufacturers
S11	1. Return loss 2.VSWR	Analyzers	E5071B	Agilent
		Coaxial Cable	RG316	YiRui
		OTA	ETS 5*3*3(3D)	Guang Ping
Testing	1. 2D、3DRaditation Pattern 2. Antenna gain 3. Antenna efficiency	Analyzers	E5071B	Agilent
		PC Console	Win 7	ASUS
		OTA	ETS;Far Field probe	Guang Ping
		3D turntable	φ1*1*1.5(3D)	Guang Ping



2、 Picture of the whole machine

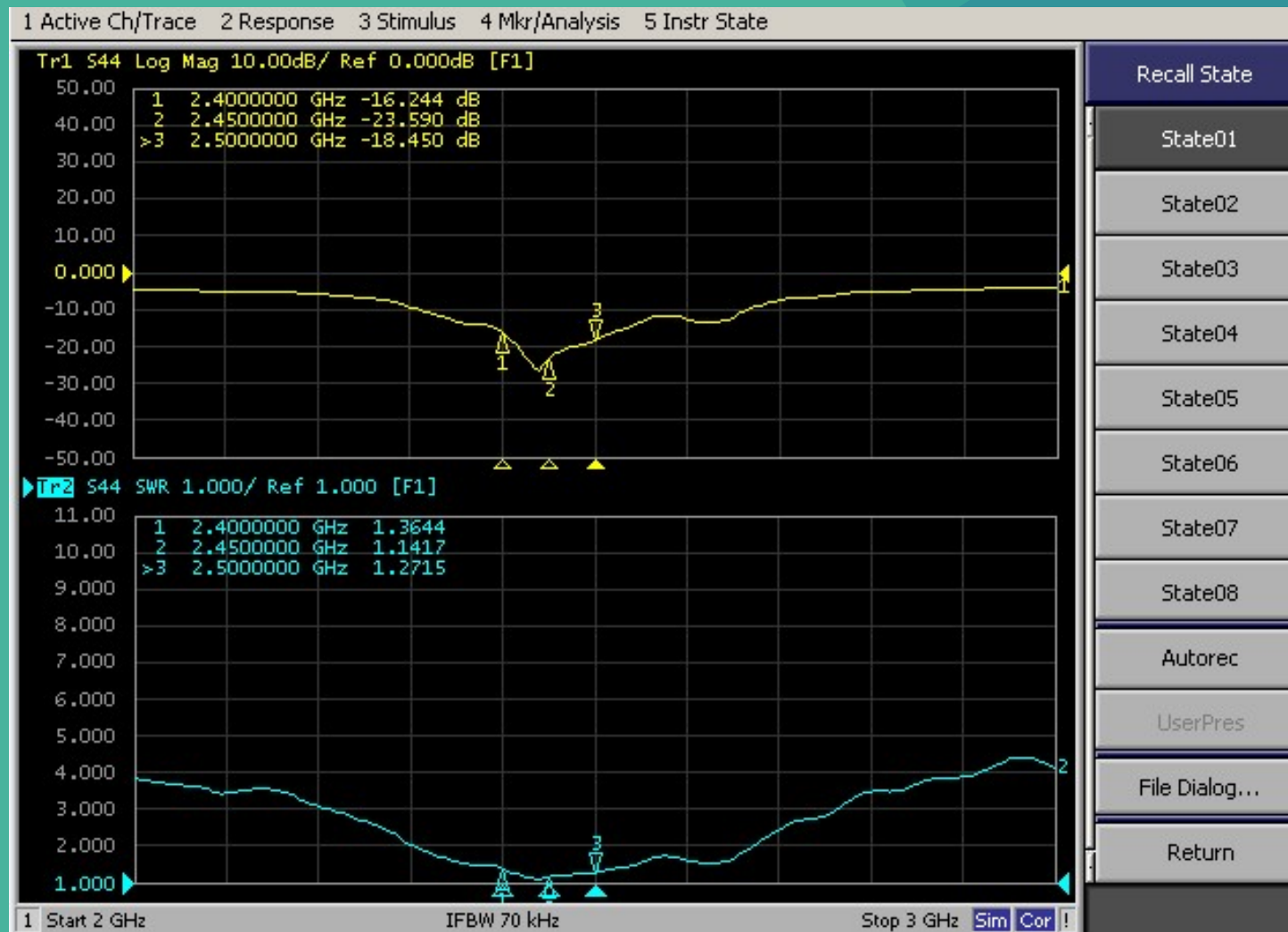


3、 Picture of antenna installation



4、 Antenna test report

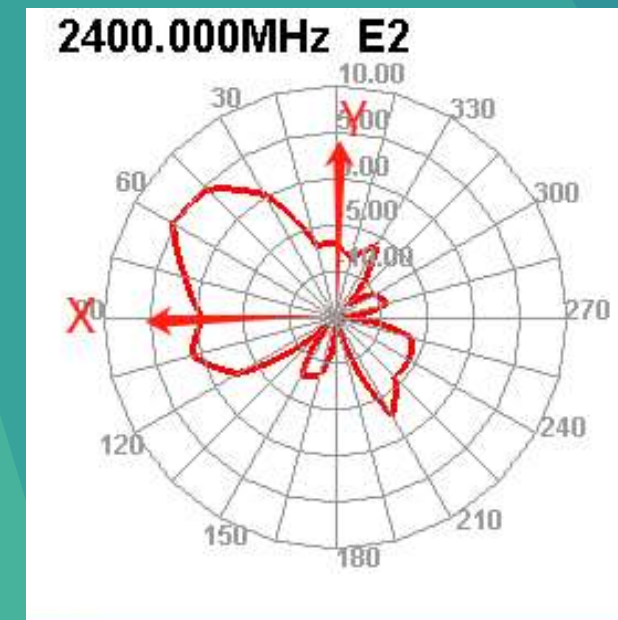
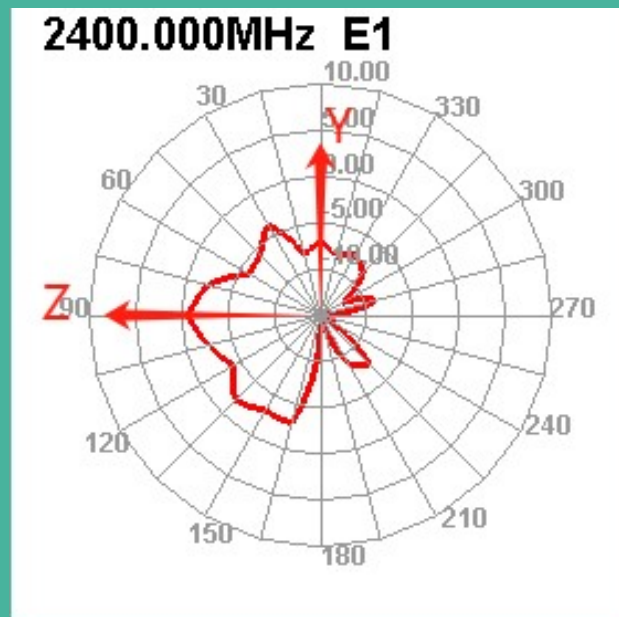
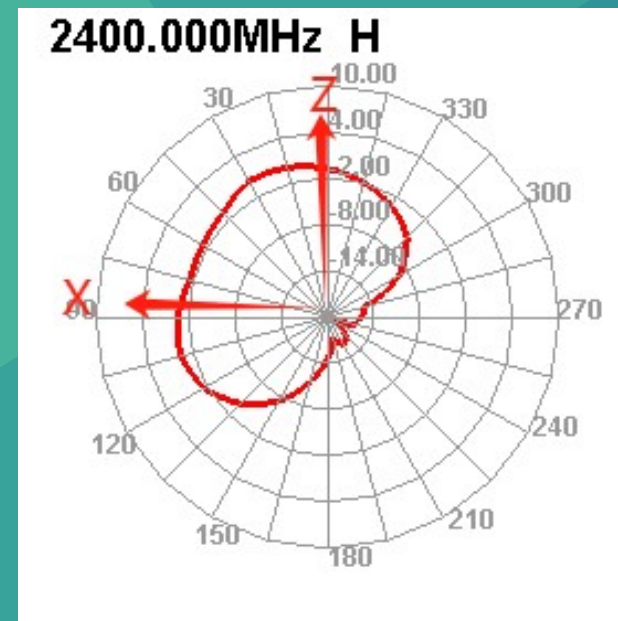
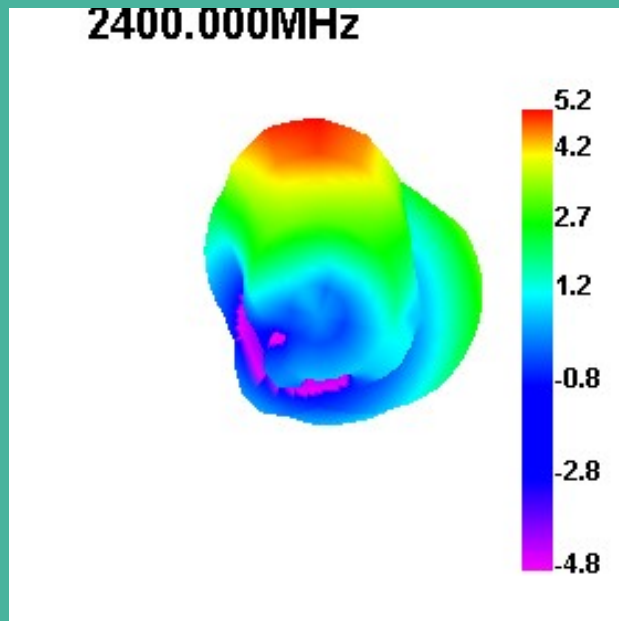
4.1 ; S11



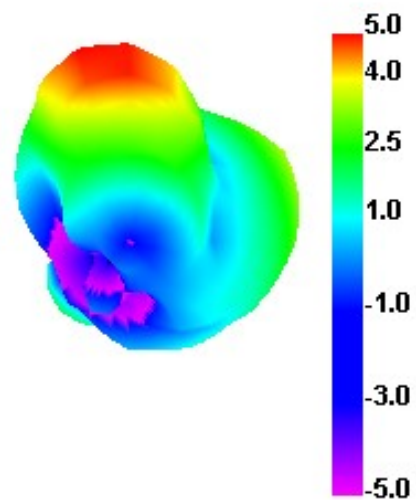
4.2; Antenna Gain efficiency

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	42.35	-3.73	0.59
2410	42.35	-3.73	0.6
2420	43.92	-3.57	0.65
2430	43.72	-3.59	0.7
2440	45.07	-3.46	0.8
2450	47.45	-3.24	0.76
2460	49.71	-3.04	0.61
2470	51.17	-2.91	0.56
2480	53.2	-2.74	0.55
2490	50.68	-2.95	0.51
2500	51.5	-2.88	0.49

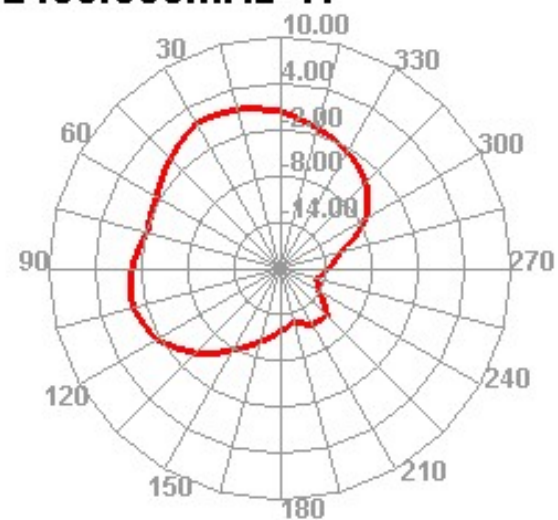
4.3; 2D、3DRaditation Pattern



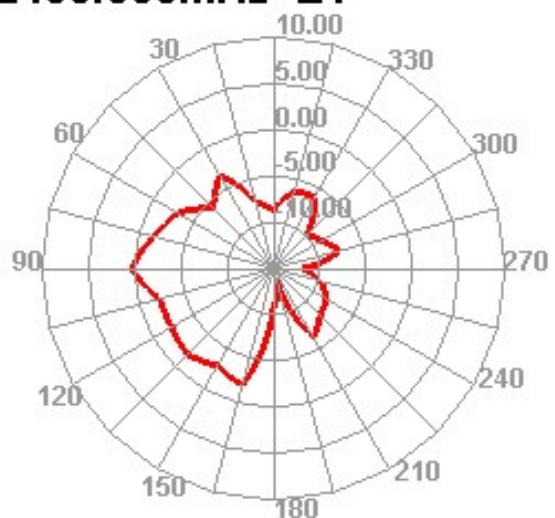
2450.000MHz



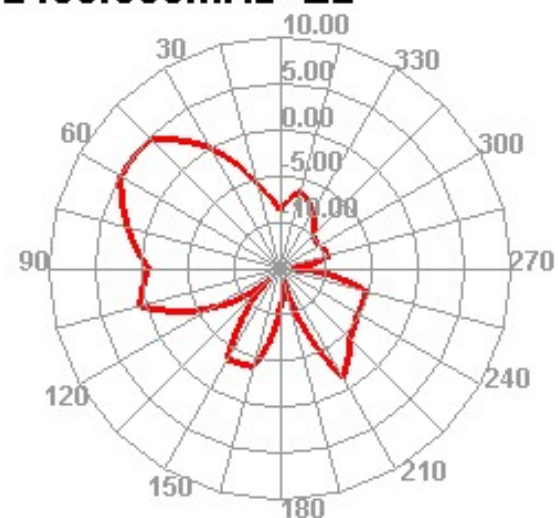
2450.000MHz H



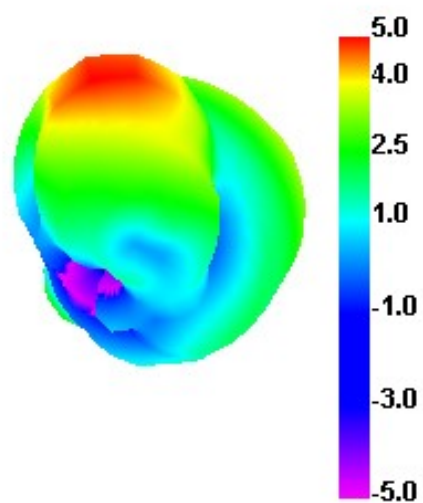
2450.000MHz E1



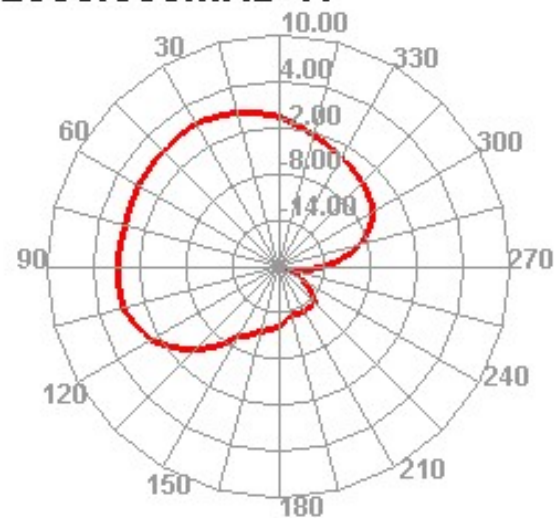
2450.000MHz E2



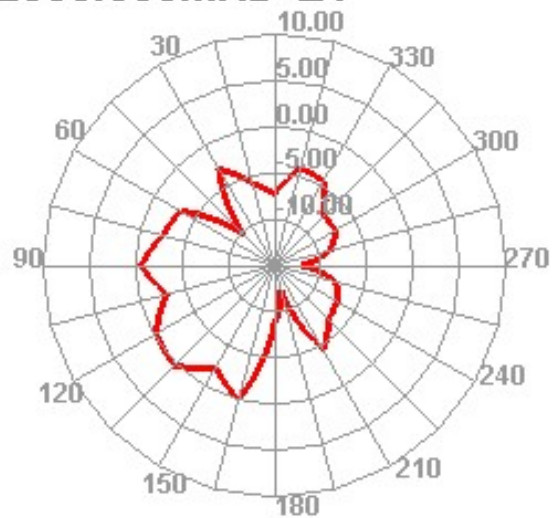
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

