



Shenzhen cape deep communication technology co., LTD

Antenna commissioning report test report

Customer: Aitus

Project name: KPS-PR-307-L3-2.4Ghz

RF: Jiang Changxing



Laboratory testing environment and equipment



Test items	Test equipment
S11、S12、VSWR、LOSS	Network analyzerE5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16darkroom、GP7*4*3darkroom、E5071B
TRP、TIS	Satimo SG16darkroom、GP7*4*3darkroom、8960、CMW500、MT8820C、E4438C、

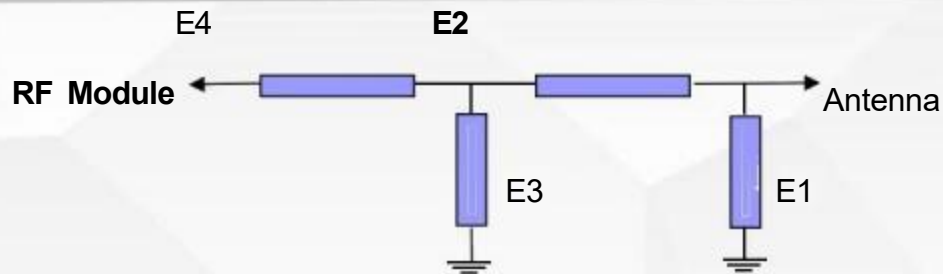


Introduction to project commissioning

Complete machine type			
		Band information	Antenna form
Antenna type and frequency band information	Main antenna	2.4G Band	PIFA
Antenna material	FPC		



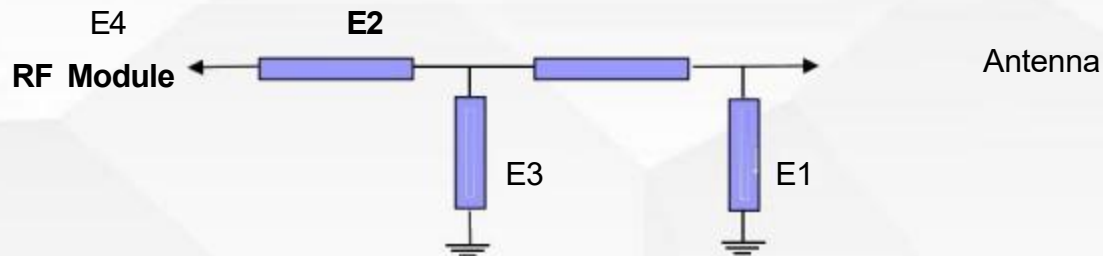
WiFi antenna distribution circuit



Element	Value
E1 (0201)	
E2 (0201)	The motherboard is matched
E3 (0201)	
E4 (0201)	

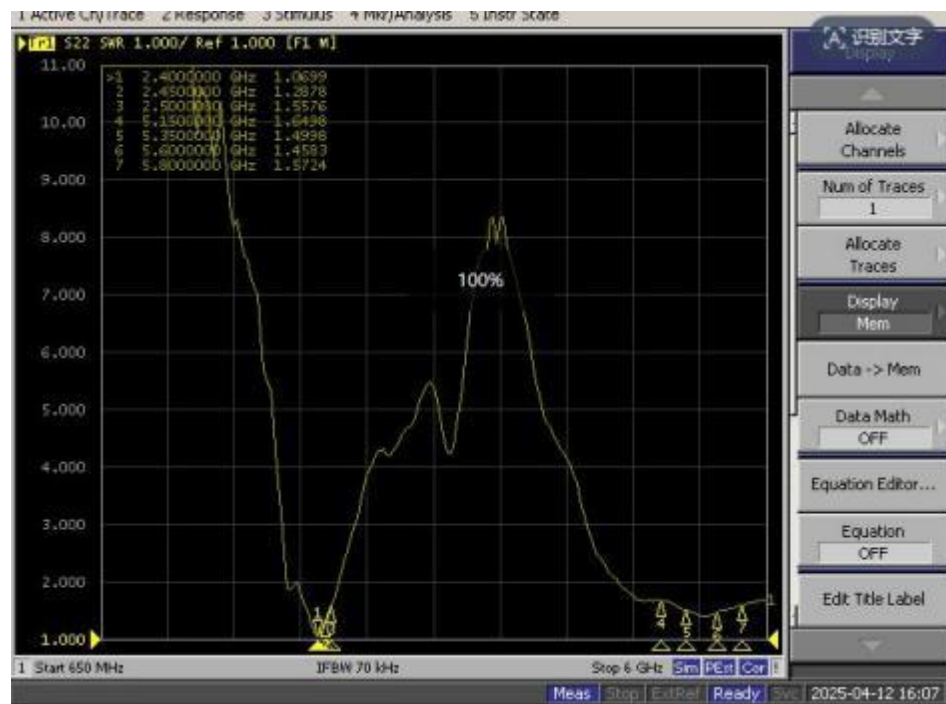


NFC antenna distribution circuit



Element	Value
E1 (0201)	
E2 (0201)	The motherboard is matched
E3 (0201)	
E4 (0201)	

S 11 Standing wave map





Original image by Smith

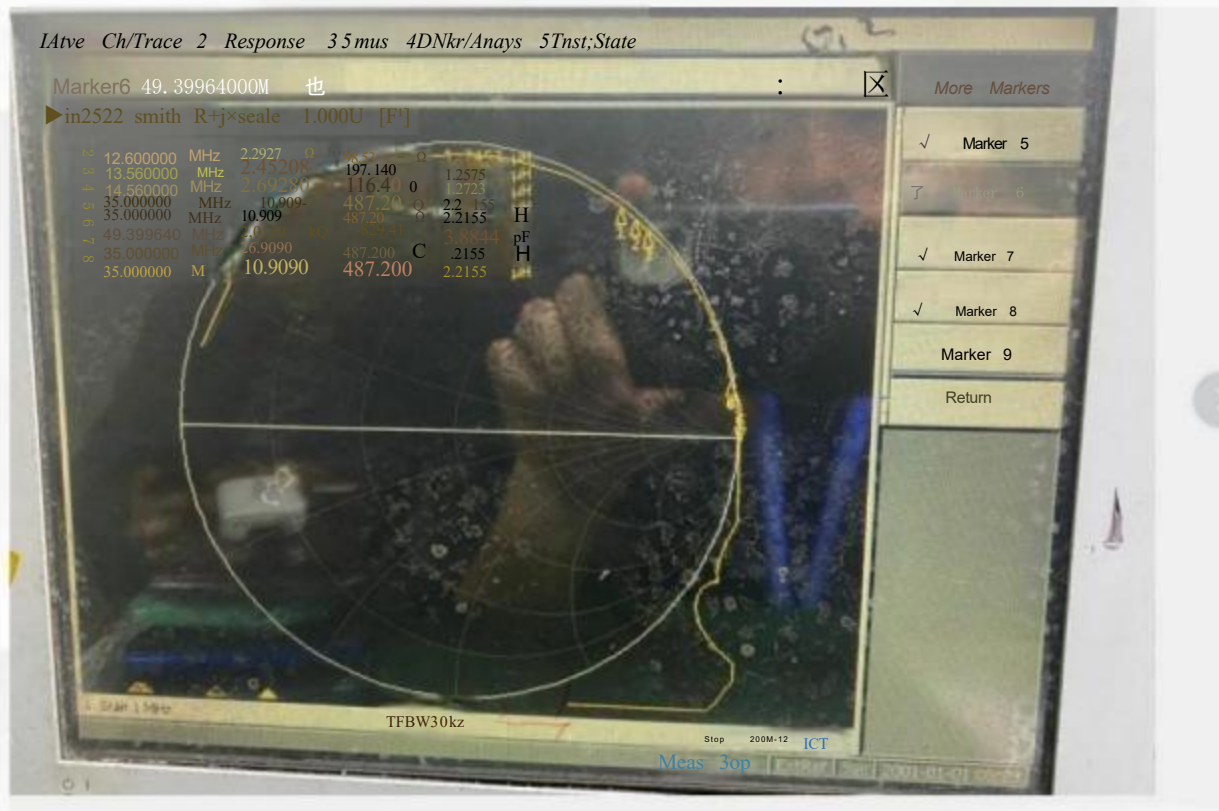
Electrical
parameters:





Original image by Smith

Electrical
parameters:





Original image by Smith





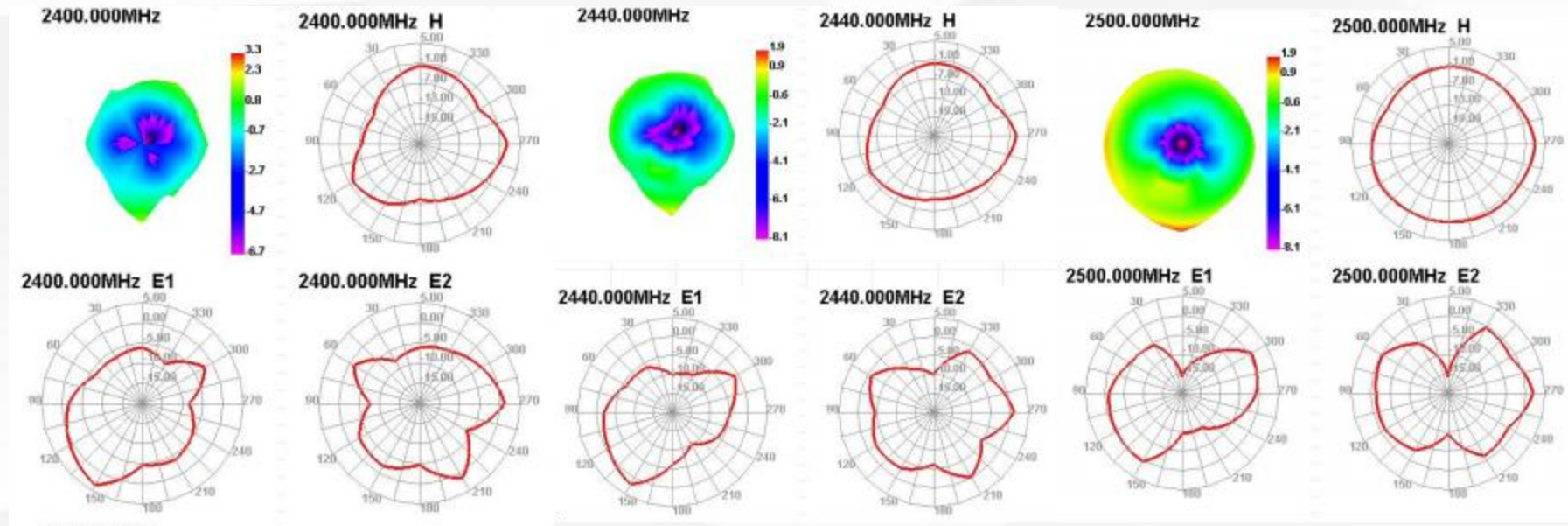
WIFI is passive

Frequency(MHz)Gain(dBi)Efficiency(dB)Efficiency(%)

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	53.01	-2.76	3.32
2410	48.91	-3.11	2.87
2420	50.6	-2.96	2.77
2430	52.2	-2.82	2.47
2440	52.58	-2.79	1.95
2450	55.4	-2.57	1.59
2460	55.52	-2.56	1.33
2470	57.16	-2.43	1.49
2480	62.24	-2.06	1.8
2490	66.47	-1.77	2.01
2500	68.3	-1.66	1.92



WIFI 3D drawing





environmental treatment

**The whole machine provides original
environmental treatment**



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