

深圳市千目通讯科技有限公司

Shenzhen Qianmu Communication Technology Co.,Ltd.

Antenna Acknowledgement

Applicable model	Q8		
customer			
Specification description			
	Product Content	Specifications	Customer material code
Specifications	WIFI antenna	FPC+wire rod1.13*100mm	
更改履历			
Serial No	date	edition	Description of changes
1	2022-12-23	V1.0	New project
2			
3			

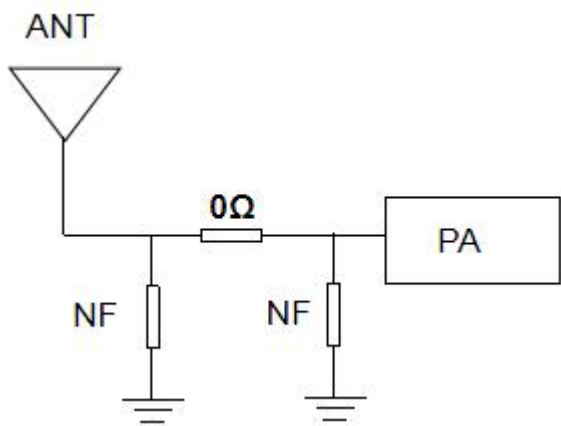
Supplier sample confirmation			
research and development	structure	to examine	determine
			PASS ☒ FAIL ☐

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Customer sample confirmation					
Electronics	structure	project	purchase	quality	to examine
Reasons for rejection or other precautions:					

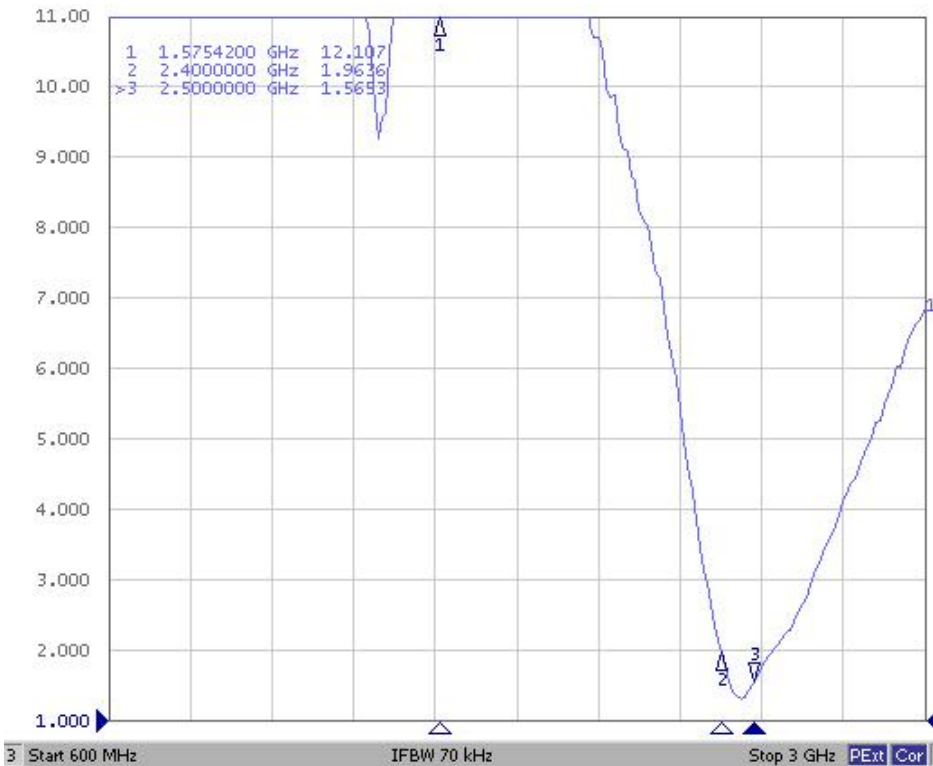
1、Matching circuit – WIFI antenna



贵司原始匹配电路未做任何更改

2、WIFI passive parameter

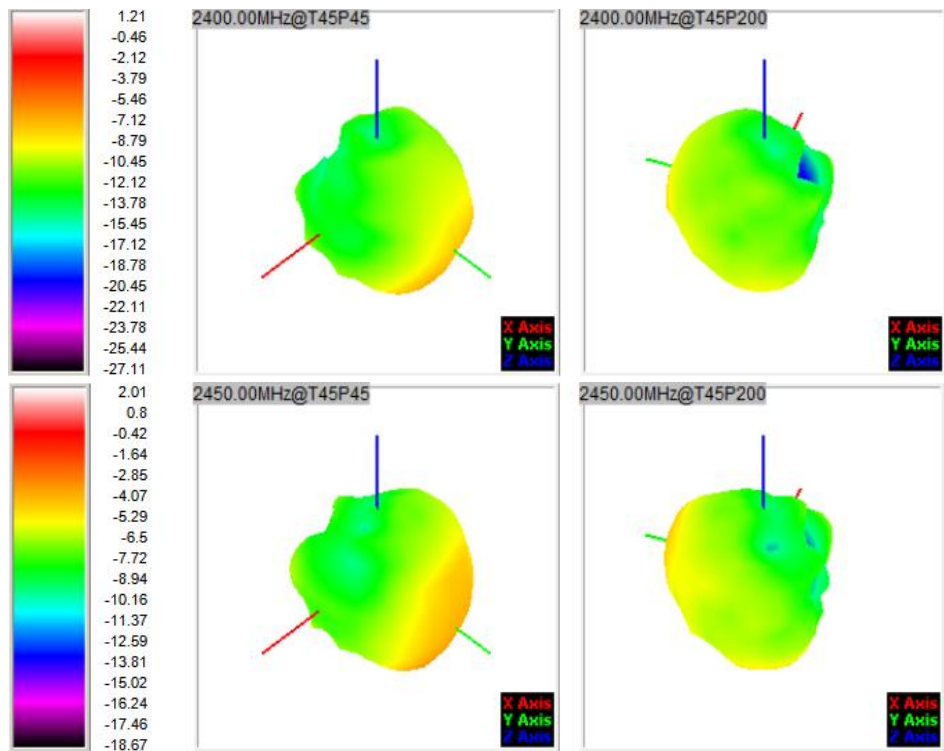
Band	WIFI	
	2400	2500
VSWR	1.9	1.5

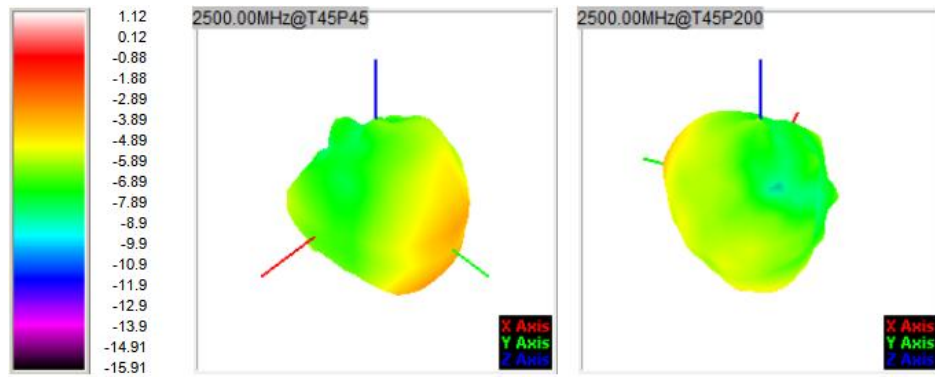


3、WiFi antenna efficiency and gain

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Ant. Port Input Pwr. (dBm)	0	0	0	0	0	0	0	0	0	0	0
Tot. Rad. Pwr. (dBm)	-5.55	-5.54	-5.47	-5.21	-5.19	-4.92	-4.97	-5.15	-5.09	-4.91	-4.93
Peak EIRP (dBm)	1.21	1.24	1.36	1.78	1.84	2.00	1.8	1.47	1.37	1.36	1.12
Directivity (dBi)	6.76	6.79	6.84	6.99	7.03	6.93	6.76	6.62	6.46	6.27	6.05
Efficiency (dB)	-5.55	-5.54	-5.47	-5.21	-5.19	-4.92	-4.97	-5.15	-5.09	-4.91	-4.93
Efficiency (%)	27.8	27.9	28.4	30.1	30.2	32.2	31.9	30.5	31	32.3	32.1
Gain (dBi)	1.21	1.24	1.36	1.78	1.84	2.00	1.8	1.47	1.37	1.36	1.12
NHPRP $\pm\pi/4$ (dBm)	-7.19	-7.17	-7.09	-6.82	-6.8	-6.51	-6.55	-6.72	-6.66	-6.5	-6.53
NHPRP $\pm\pi/6$ (dBm)	-8.71	-8.66	-8.57	-8.29	-8.28	-7.99	-8.02	-8.19	-8.14	-7.97	-7.98
NHPRP $\pm\pi/8$ (dBm)	-9.88	-9.81	-9.71	-9.44	-9.43	-9.12	-9.12	-9.27	-9.2	-9.01	-9.01
Upper Hem. PRP (dBm)	-10.09	-10.1	-9.99	-9.68	-9.6	-9.21	-9.21	-9.36	-9.29	-9.1	-9.08
Lower Hem. PRP (dBm)	-7.44	-7.42	-7.37	-7.13	-7.15	-6.94	-7.02	-7.22	-7.17	-7	-7.04
Upper Hem. PRP (%)	9.79	9.78	10.03	10.78	10.96	11.99	12	11.58	11.78	12.31	12.35
Lower Hem. PRP (%)	18.05	18.11	18.32	19.34	19.29	20.25	19.87	18.96	19.2	19.97	19.76

4、WiFi antenna apple diagram





5、Structural drawings

