

Shenzhen Qianmu Communication Technology Co., Ltd.

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Antenna Certification

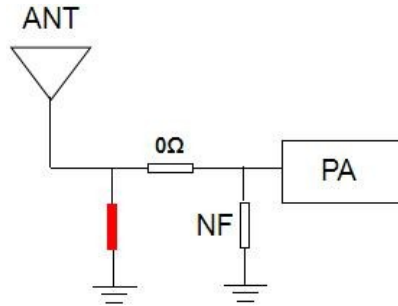
Applicable Model	AT74K-3562		
Client	Shenzhen Peicheng Technology Co., Ltd.		
Specification Description			
	Product Details	Specifications	Customer Material Code
Specification Description	WiFi Antenna	FPC/Black/Character QM-AT74K-3562-V1.0 + Third-generation Zepu terminal 0.81*60mm + Conductive fabric	
Change History			
Serial Number	Date	Version	Summary of Changes
1	19 January 2026	V1.0	New Project
2			
3			

Supplier Sample Confirmation					
Research and Development	Structure	Audit	Assessment		
			PASS ☒ FAIL ☐		
Customer Sample Confirmation					
Electronic	Structure	Project	Procurement	Quality	Audit
Reasons for rejection or other notes:					

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Community, Bao'an District, Shenzhen

1. Matching Circuit - WiFi

Antenna



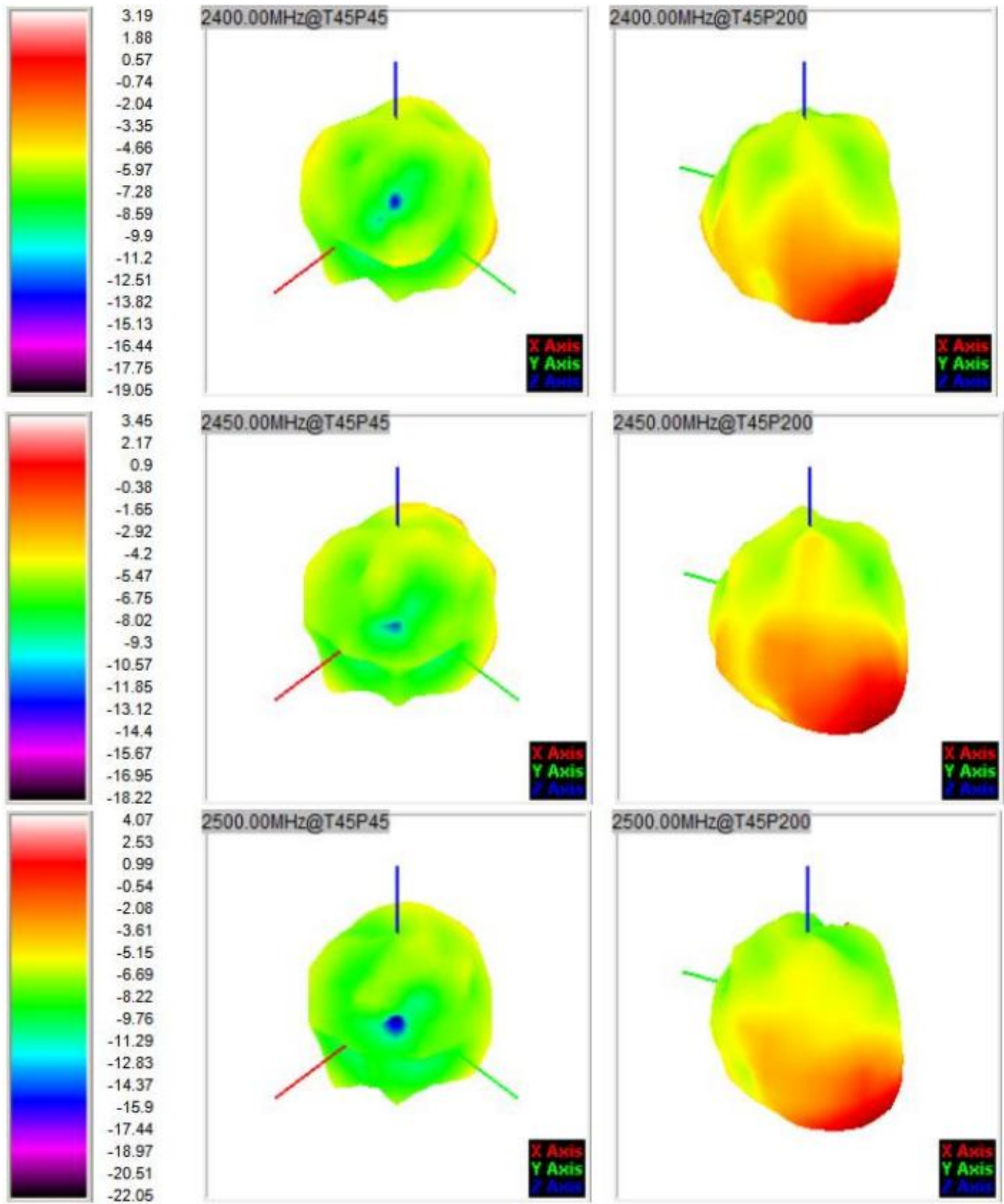
Original matching circuit remains unchanged

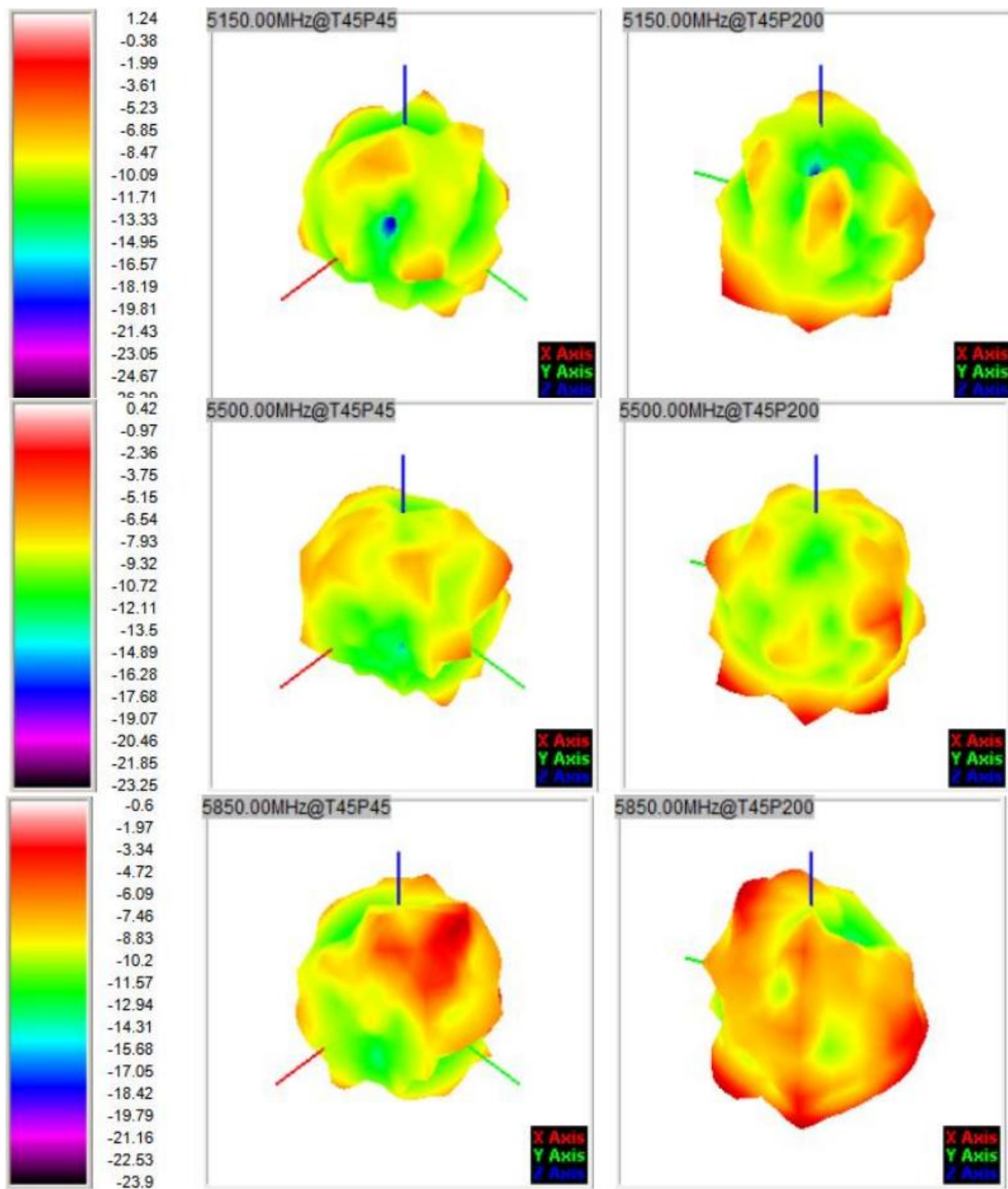
2. Wi-Fi Passive Components - Efficiency/Gain

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-4.18	-4.10	-4.00	-4.06	-3.98	-3.92	-3.78	-3.79	-3.81	-3.78	-3.71
Peak EIRP (dBm)	3.19	3.26	3.34	3.29	3.39	3.45	3.62	3.65	3.71	3.85	4.07
Directivity (dBi)	7.37	7.36	7.35	7.35	7.36	7.37	7.40	7.45	7.52	7.63	7.78
Efficiency (dB)	-4.18	-4.10	-4.00	-4.06	-3.98	-3.92	-3.78	-3.79	-3.81	-3.78	-3.71
Efficiency (%)	38.20	38.90	39.80	39.30	40.00	40.50	41.90	41.80	41.60	41.90	42.60
Gain (dBi)	3.19	3.26	3.34	3.29	3.39	3.45	3.62	3.65	3.71	3.85	4.07
NHPRP $\pm \pi/4$ (dBm)	-5.26	-5.21	-5.14	-5.21	-5.13	-5.08	-4.94	-4.96	-4.98	-4.95	-4.88
NHPRP $\pm \pi/6$ (dBm)	-6.64	-6.58	-6.51	-6.56	-6.48	-6.43	-6.30	-6.33	-6.35	-6.32	-6.23
NHPRP $\pm \pi/8$ (dBm)	-7.73	-7.67	-7.59	-7.64	-7.55	-7.51	-7.39	-7.43	-7.44	-7.40	-7.30
Upper Hem. PRP (dBm)	-8.08	-8.04	-7.98	-8.04	-7.92	-7.83	-7.65	-7.66	-7.71	-7.72	-7.67
Lower Hem. PRP (dBm)	-6.45	-6.34	-6.23	-6.28	-6.21	-6.19	-6.07	-6.08	-6.08	-6.02	-5.94
Upper Hem. PRP (%)	15.54	15.70	15.94	15.70	16.13	16.50	17.18	17.12	16.95	16.89	17.11
Lower Hem. PRP (%)	22.66	23.20	23.84	23.56	23.91	24.05	24.73	24.65	24.67	24.98	25.45

Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Point Values															
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-6.14	-6.27	-6.27	-6.07	-6.53	-6.74	-6.78	-6.66	-6.35	-5.91	-6.03	-6.16	-6.27	-6.72	-6.43
Peak EIRP (dBm)	1.24	1.16	1.46	2.04	1.16	0.59	0.25	0.42	0.47	0.97	0.83	1.05	0.71	-0.54	-0.60
Directivity (dBi)	7.38	7.43	7.74	8.11	7.69	7.33	7.03	7.08	6.82	6.88	6.86	7.21	6.98	6.19	5.83
Efficiency (dB)	-6.14	-6.27	-6.27	-6.07	-6.53	-6.74	-6.78	-6.66	-6.35	-5.91	-6.03	-6.16	-6.27	-6.72	-6.43
Efficiency (%)	24.30	23.60	23.60	24.70	22.20	21.20	21.00	21.60	23.20	25.60	24.90	24.20	23.60	21.30	22.70
Gain (dBi)	1.24	1.16	1.46	2.04	1.16	0.59	0.25	0.42	0.47	0.97	0.83	1.05	0.71	-0.54	-0.60
NHPRP $\pm\pi/4$ (dBm)	-7.81	-7.93	-8.04	-7.86	-8.34	-8.57	-8.53	-8.38	-8.07	-7.56	-7.68	-7.82	-7.87	-8.40	-8.07
NHPRP $\pm\pi/6$ (dBm)	-9.24	-9.38	-9.63	-9.56	-10.29	-10.51	-10.32	-10.12	-9.78	-9.18	-9.26	-9.34	-9.33	-9.90	-9.60
NHPRP $\pm\pi/8$ (dBm)	-10.26	-10.42	-10.76	-10.78	-11.81	-12.03	-11.73	-11.54	-11.13	-10.47	-10.57	-10.59	-10.54	-11.11	-10.79
Upper Hem. PRP (dBm)	-9.95	-10.02	-10.15	-10.13	-10.28	-10.44	-10.52	-10.15	-9.85	-9.43	-9.43	-9.63	-9.75	-10.00	-9.90
Lower Hem. PRP (dBm)	-8.48	-8.64	-8.56	-8.23	-8.90	-9.15	-9.16	-9.24	-8.93	-8.47	-8.69	-8.76	-8.85	-9.48	-9.03
Upper Hem. PRP (%)	10.12	9.95	9.65	9.71	9.37	9.03	8.87	9.67	10.36	11.41	11.41	10.90	10.58	9.99	10.23
Lower Hem. PRP (%)	14.20	13.67	13.93	15.03	12.87	12.16	12.13	11.91	12.81	14.24	13.53	13.29	13.04	11.27	12.50

3、 Directional Pattern





4. Wi-Fi Active + Actual Measurement

2.4G 2400-2500MHz 802.11b 11Mbps			
Channel	1	6	11
TRP	13.56	13.22	14.09
TIS	-81.82	-81.91	-80.49
5G 5000-5800MHz 802.11a 54Mbps			
Channel	64	161	165
TRP	10.15	11.12	11.08
TIS	-69.25	-70.43	-70.51

WLAN

 CSW

 DIRECT-DB-HP

 HUAWEI-1GR6NE

 HUAWEI-E51U3P

 HUAWEI-E51U3P_Wi-Fi5

 TP-LINK_D743

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 8888--97EB

 CMCC-fNAX

Our R&D Laboratory

5. Antenna Position -1



