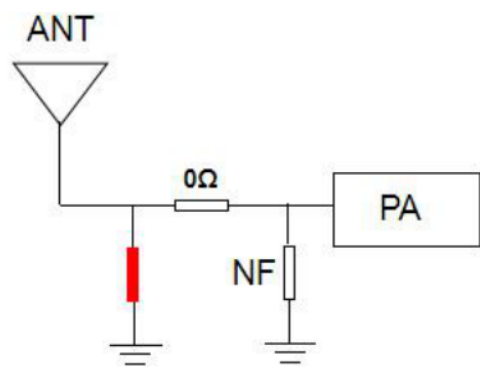


Applicable Model	PC10M-MTK8768		
Customer	Shenzhen Peicheng Technology Co., Ltd.		
Specifications captured			
	Product Details	Specifications	Customer Material Code
Specification Description	WiFi Antenna	FPC/Black/Character QM-PC10M-MTK8766-V1.0 + Third Generation Terminal Wire 0.81*60mm + Conductive Cloth	
Change History			
Serial number	Date	Version	Summary of Changes
1	2026-01-26	V1.0	New Project
2			
3			

Supplier Xiangpin Confirmation					
R&D	Structure	Review	Judgment		
			PASS ☒ FAIL ☐		
Customer Sample Confirmation					
Electronic	Structure	Project	Purchasing	Quality	Review
Reason for Rejection or Other Notes:					

1. Matching circuit - WIFI antenna



The original matching circuit remains unchanged

2. Active test data

WiFi 2400-2500MHz 802.11b 11MBps			
Channel	1	6	11
TRP	13.50	13.2	13.60
TIS	-80.72	-80.11	-80.92

3. Passive efficiency

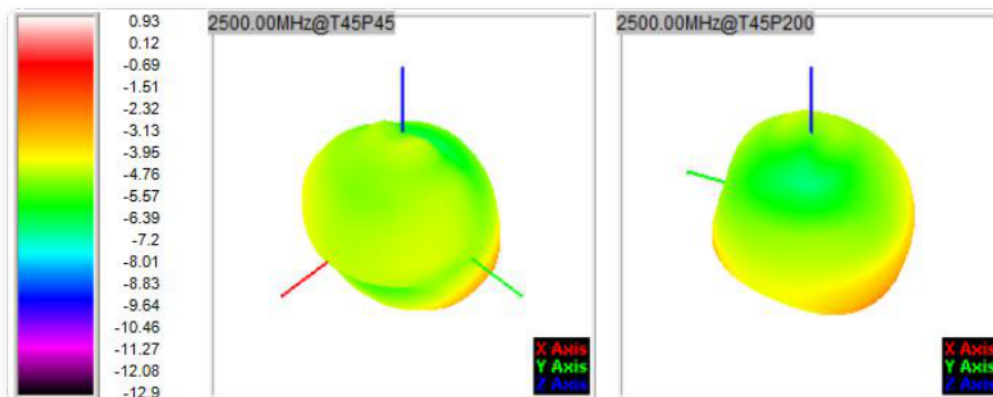
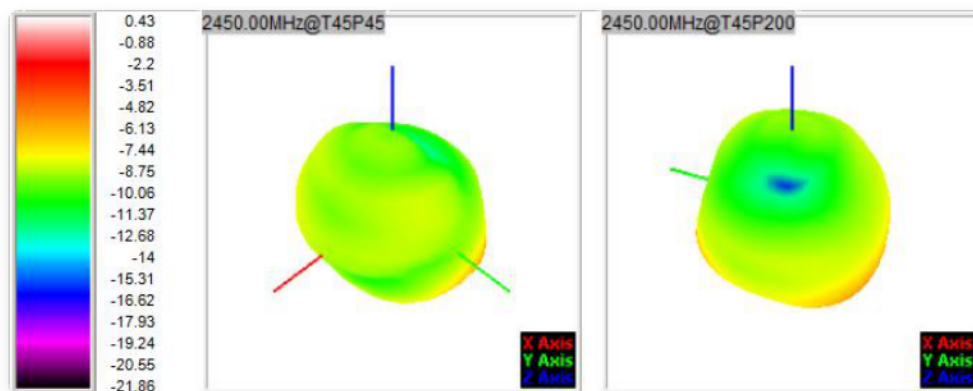
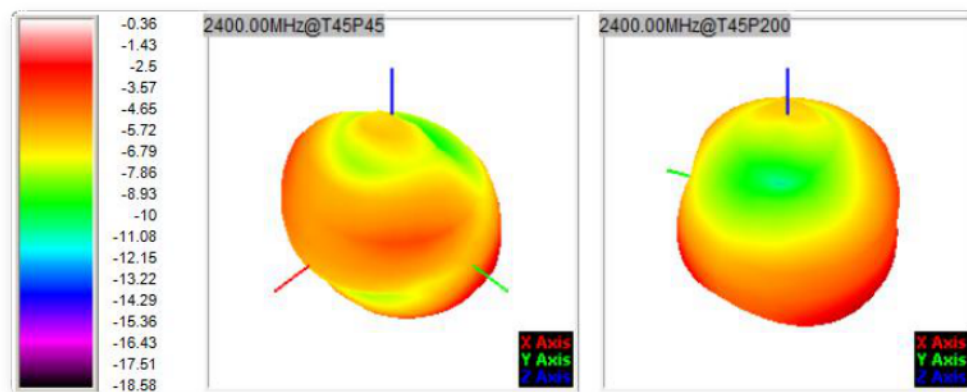
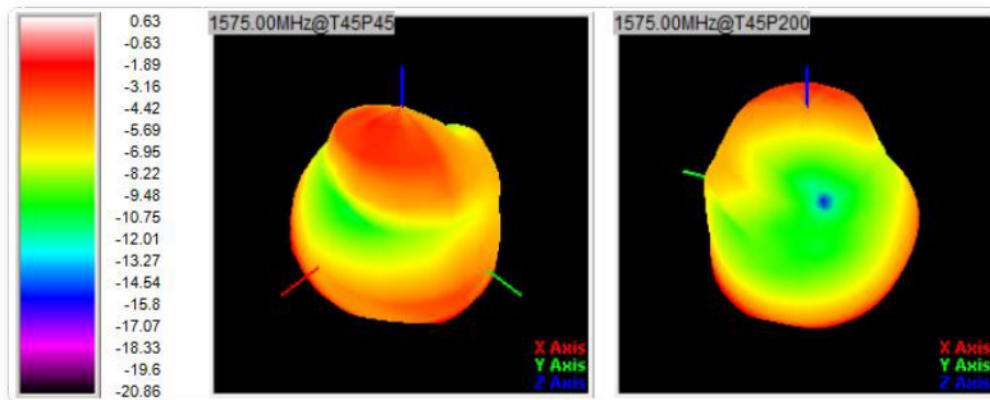
GPS

FETUKEJI			
Frequency ID	1	2	3
Frequency (MHz)	1570.0	1575.0	1580.0
Point Values			
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-4.25	-4.11	-4.01
Peak EIRP (dBm)	0.55	0.63	0.56
Directivity (dBi)	4.80	4.74	4.57
Efficiency (dB)	-4.25	-4.11	-4.01
Efficiency (%)	37.60	38.90	39.70
Gain (dBi)	0.55	0.63	0.56
NHPRP $\pm$ Pi/4 (dBm)	-6.23	-6.08	-5.99
NHPRP $\pm$ Pi/6 (dBm)	-8.16	-8.02	-7.93
NHPRP $\pm$ Pi/8 (dBm)	-9.54	-9.42	-9.34
Upper Hem. PRP (dBm)	-9.95	-9.78	-9.61
Lower Hem. PRP (dBm)	-5.61	-5.48	-5.41
Upper Hem. PRP (%)	10.11	10.53	10.94
Lower Hem. PRP (%)	27.46	28.33	28.75

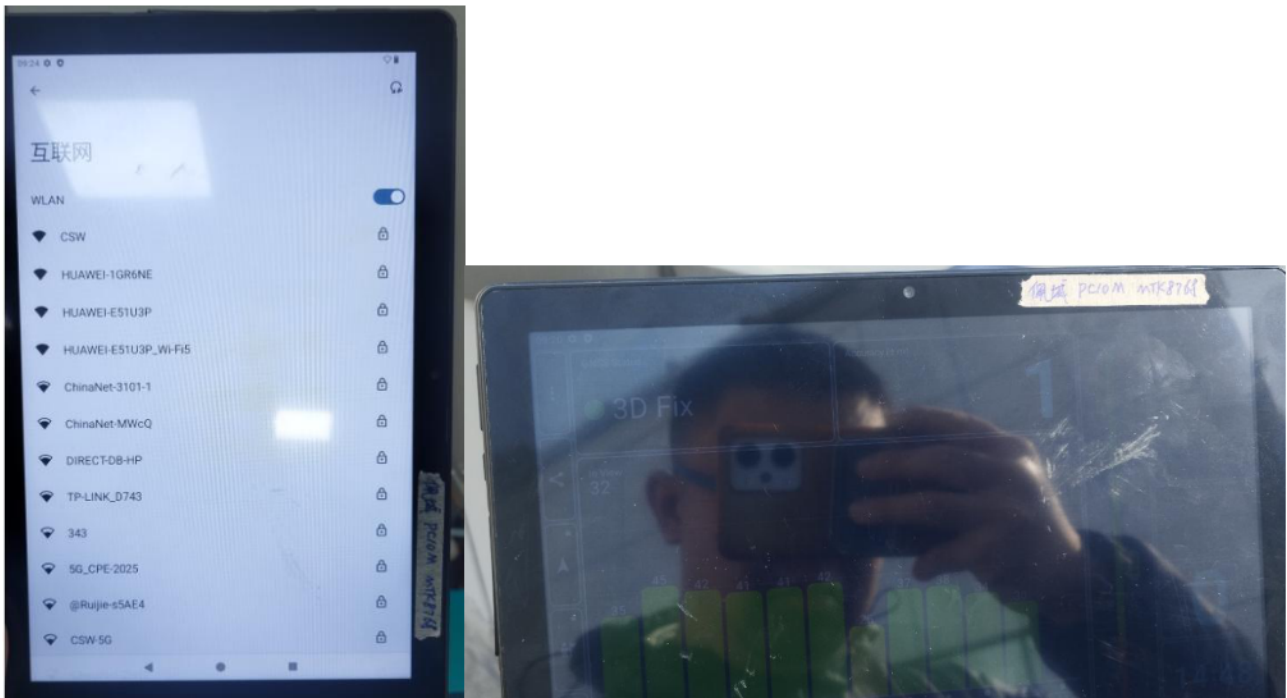
WIFI

FETUKEJI											
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)	-4.91	-4.81	-4.63	-4.50	-4.33	-4.16	-3.98	-3.88	-3.83	-3.68	-3.63
Peak EIRP (dBm)	-0.36	-0.12	0.09	0.14	0.23	0.43	0.72	0.93	0.99	1.04	0.93
Directivity (dBi)	4.55	4.69	4.72	4.64	4.55	4.59	4.70	4.81	4.82	4.72	4.57
Efficiency (dB)	-4.91	-4.81	-4.63	-4.50	-4.33	-4.16	-3.98	-3.88	-3.83	-3.68	-3.63
Efficiency (%)	32.30	33.00	34.40	35.50	36.90	38.40	40.00	40.90	41.40	42.90	43.30
Gain (dBi)	-0.36	-0.12	0.09	0.14	0.23	0.43	0.72	0.93	0.99	1.04	0.93
NHPRP $\pm$ Pi/4 (dBm)	-6.05	-6.00	-5.86	-5.75	-5.59	-5.44	-5.27	-5.18	-5.10	-4.92	-4.87
NHPRP $\pm$ Pi/6 (dBm)	-7.49	-7.48	-7.36	-7.24	-7.05	-6.88	-6.71	-6.62	-6.53	-6.33	-6.28
NHPRP $\pm$ Pi/8 (dBm)	-8.62	-8.63	-8.52	-8.37	-8.15	-7.96	-7.79	-7.72	-7.62	-7.42	-7.39
Upper Hem. PRP (dBm)	-9.38	-9.27	-9.10	-8.95	-8.76	-8.64	-8.57	-8.58	-8.52	-8.28	-8.13
Lower Hem. PRP (dBm)	-6.82	-6.73	-6.55	-6.43	-6.27	-6.07	-5.83	-5.69	-5.63	-5.52	-5.54
Upper Hem. PRP (%)	11.53	11.82	12.30	12.73	13.31	13.67	13.91	13.88	14.07	14.86	15.39
Lower Hem. PRP (%)	20.78	21.22	22.14	22.75	23.61	24.70	26.12	27.00	27.36	28.05	27.92

radiation pattern



4. Antenna actual measurement



5. Environmental treatment

WIFI antenna placement

