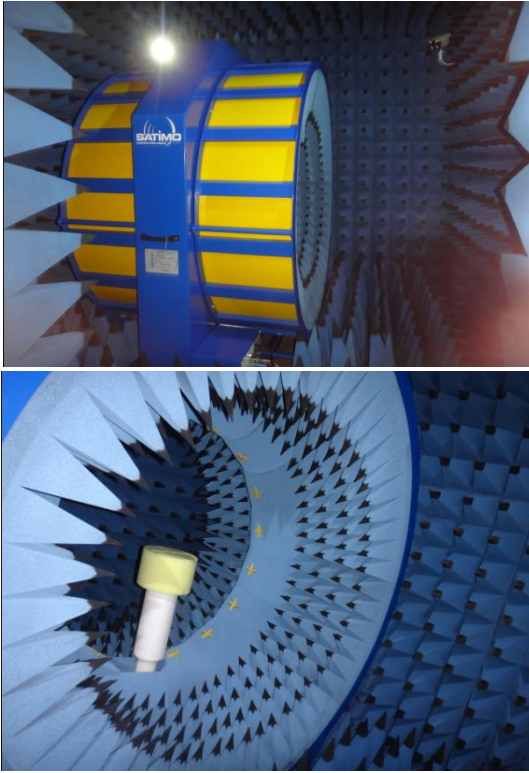


Antenna Specifications

Customer Name	Rui Gan IoT	Project Name	TC04M
Commissioning frequency band	WIFI:2.4G	Structure mode	fpc
RF Engineer	Ou Yangqiu	Structural Engineer	Guo Shaosen
Antenna Type	Monopole	Date	2026-02-05



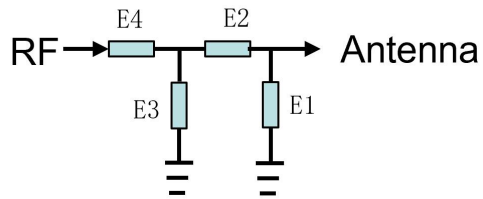
The original imported French SATIMO StarLab 3D laboratory can accurately and quickly test the TRP, TIS, efficiency, gain, Apple diagram, directional diagram and other parameter data of communication terminal products such as mobile phones, tablet computers and notebooks.

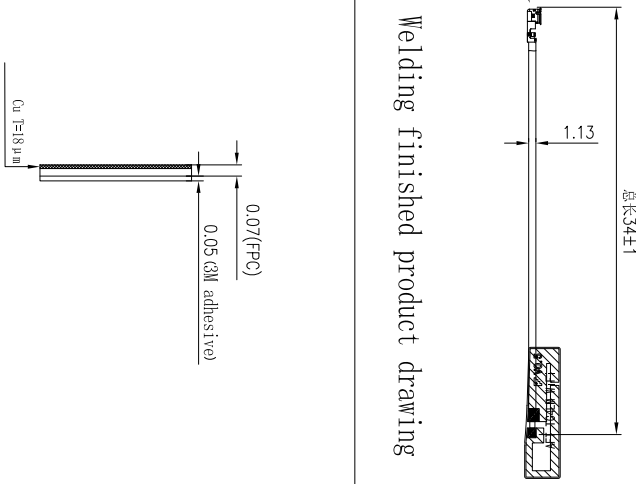
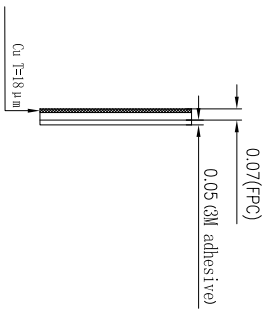
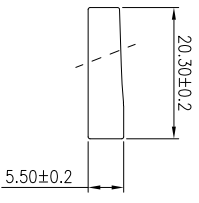
Antenna report version summary

Version	Date	Content Overview
V1.0	2026-02-05	Sample test report

WiFi antenna matching circuit ----- unchanged

Element	E1	E2	E3	E4
Value	NC	0 <u>o</u> u	NC	0 <u>o</u> u

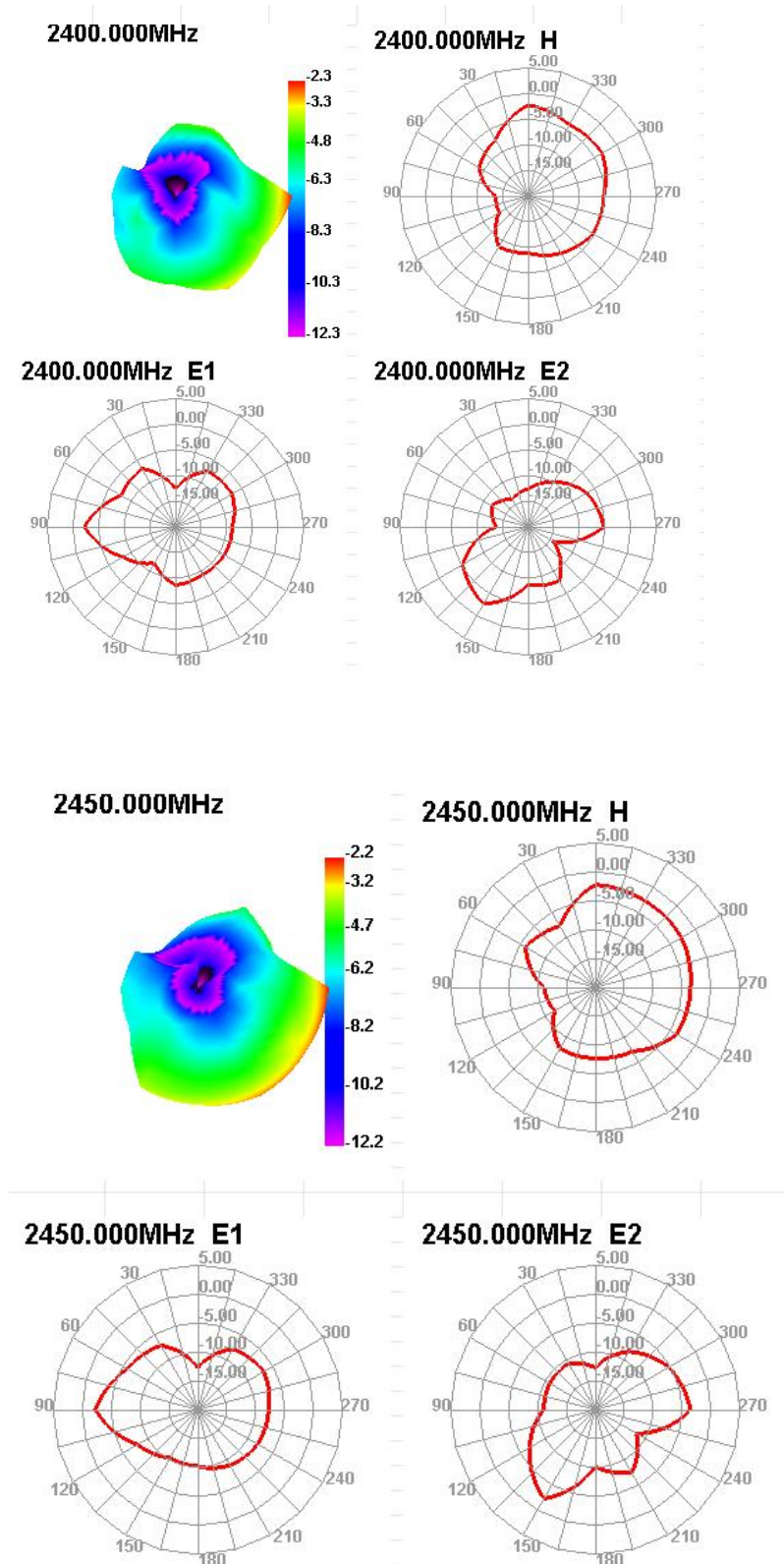


1	2	3	4	5	6	7	8																																																		
A				A																																																					
I RF Connector Side welding upward				Welding finished product drawing																																																					
																																																									
B				B																																																					
screen printing white text "MP-TC4LM-WIFI" 																																																									
C				C																																																					
Product front black				The back of the product																																																					
Note:																																																									
1、The back glue is made of TES8853. The back glue shape is consistent with the substrate and covered on the back of the substrate. The back cut is half-cut:																																																									
2、The single-sided 1 and 1/2, material is of good flexibility;																																																									
3、  The gold plating area ，  The copper foil area.																																																									
4、The coated product is bent by 180° without cracks and with good flexibility;																																																									
5、The golden finger surface plus gold 1-3u" without oxidation. The copper foil connections have no cracks or conduction after 180° bending; ；																																																									
6、Precise tolerance range of wiring and hole: +0.03mm. The tolerance of external dimensions falls within 0.2mm;																																																									
7、The items making "*" are key sizes. The unmarked sizes are measured at 1:1 according to CND electronic profile.																																																									
8、The specific content and position of surface printing refer to the figure;																																																									
D				D																																																					
				Shenzhen wiselink technology co., Ltd																																																					
<table><tr><td></td><td>Third</td><td>Model</td><td>TC04M</td><td>Date</td><td>2026-04-23</td><td>Drawing</td><td>Guo Shaoen</td><td>Page</td><td>1 of 1</td></tr><tr><td>0~10</td><td>±0.10</td><td>○</td><td>0.02</td><td>PART name</td><td>WIFI antenna</td><td></td><td></td><td></td><td></td></tr><tr><td>10~20</td><td>±0.12</td><td>◎</td><td>00.03</td><td>PART No.</td><td>P-188-10B-B-1-1A</td><td>Structure</td><td></td><td></td><td></td></tr><tr><td>20~40</td><td>±0.15</td><td>⊥</td><td>0.02</td><td>Material</td><td>FPC</td><td></td><td></td><td></td><td></td></tr><tr><td>40~</td><td>±0.20</td><td></td><td>0.04</td><td>Mold surface treatment</td><td></td><td>RF</td><td></td><td></td><td></td></tr></table>					Third	Model	TC04M	Date	2026-04-23	Drawing	Guo Shaoen	Page	1 of 1	0~10	±0.10	○	0.02	PART name	WIFI antenna					10~20	±0.12	◎	00.03	PART No.	P-188-10B-B-1-1A	Structure				20~40	±0.15	⊥	0.02	Material	FPC					40~	±0.20		0.04	Mold surface treatment		RF				请勿实测图纸 位置			
	Third	Model	TC04M	Date	2026-04-23	Drawing	Guo Shaoen	Page	1 of 1																																																
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Unit				mm																																																					
Proportion				1:1																																																					
Version				REV:A																																																					
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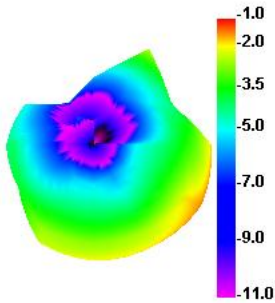
Efficiency and gain:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	19.45	-2.29
2410	19.51	-2.48
2420	20.88	-2.2
2430	17.95	-2.98
2440	21.69	-2.22
2450	22.5	-2.23
2460	28.05	-1.25
2470	30.14	-1.09
2480	38.47	-0.19
2490	30.73	-1.19
2500	32.18	-0.99

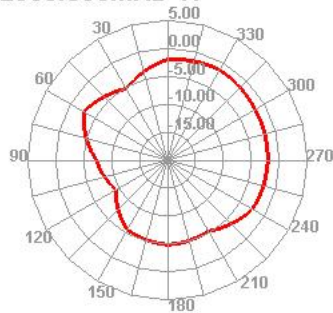
Directional pattern and apple chart



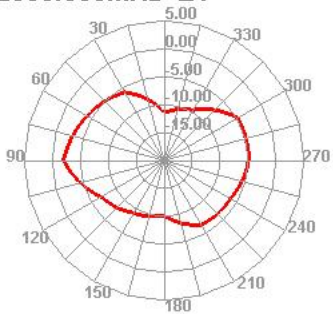
2500.000MHz



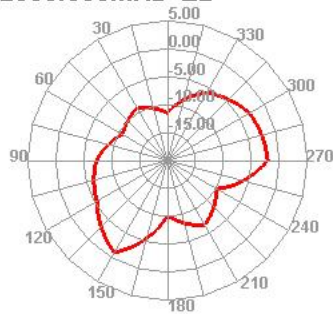
2500.000MHz H



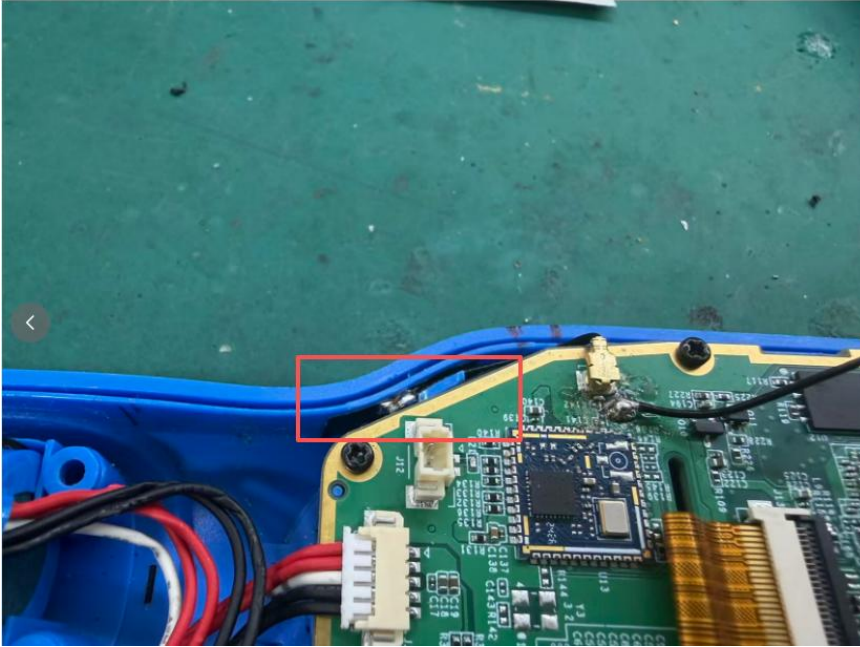
2500.000MHz E1



2500.000MHz E2



antenna position



Note:

- 1, this antenna is only suitable for debugging prototype, motherboard PCB or RF circuit material changes, accessories (such as camera, screen, horn, motor, battery, shell process) and other changes, must be tested and verified by our company before use.
2. If this project needs to be verified by the third party, please send the prototype to our company for retesting at least one working day in advance, and then send it to our company for testing, so as to avoid delays in the project progress after two or multiple tests!