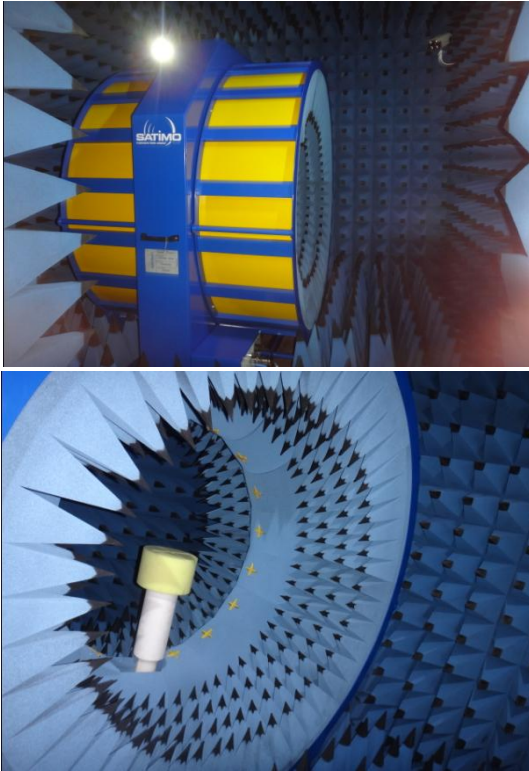


Antenna Specifications

Customer Name	Rui Gan IoT	Project Name	TC04L
Commissioning frequency band	WIFI:2.4G	Structure mode	fpc
RF Engineer	Ou Yangqiu	Structural Engineer	Guo Shaosen
Antenna Type	Monopole	Date	2026-02-05



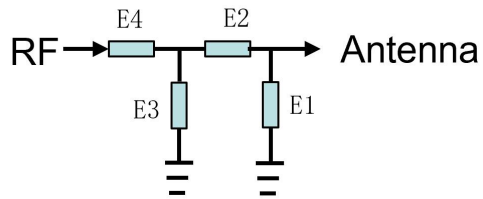
The original imported French SATIMO StarLab 3D laboratory can accurately and quickly test the TRP, TIS, efficiency, gain, Apple diagram, directional diagram and other parameter data of communication terminal products such as mobile phones, tablet computers and notebooks.

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	0.5u	NC	0.5u



1

2

3

4

5

6

7

8

A

I RF Connector Side welding upward

1.13

总长 34 ± 1

Welding finished product drawing

B

screen printing white text“ANT-TC4LM-WIFI”

0.07(FPC)

0.05(GM adhesive)

$Cu\ T=18\ \mu m$

20.30 ± 0.2

5.50 ± 0.2

C

Product front black

Note:

1、The back glue is made of TESN8853. The back glue shape is consisten 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 CAD electronic profile.

8、The specific content and position of surface printing refer to the figure;

D

Shenzhen wiselink technology co., Ltd

Third

Model

TC04L

Date

2026-04-23

Designed by

Audited by

Qiao ShaoSen

Page

1 of 1

0~10

± 0.10

10~20

± 0.12

20~40

± 0.15

40~

± 0.20

○

◎

└

ㄥ

0.02

00.03

0.02

0.04

0.02

PART name

PART No.

Material

Mold surface treatment

WiFi antenna

P-A88-10B-B-1-1A

FPC

RF

请勿实测图纸

位置

Appearance

treatment

Unit

mm

Proportion

1:1

Version

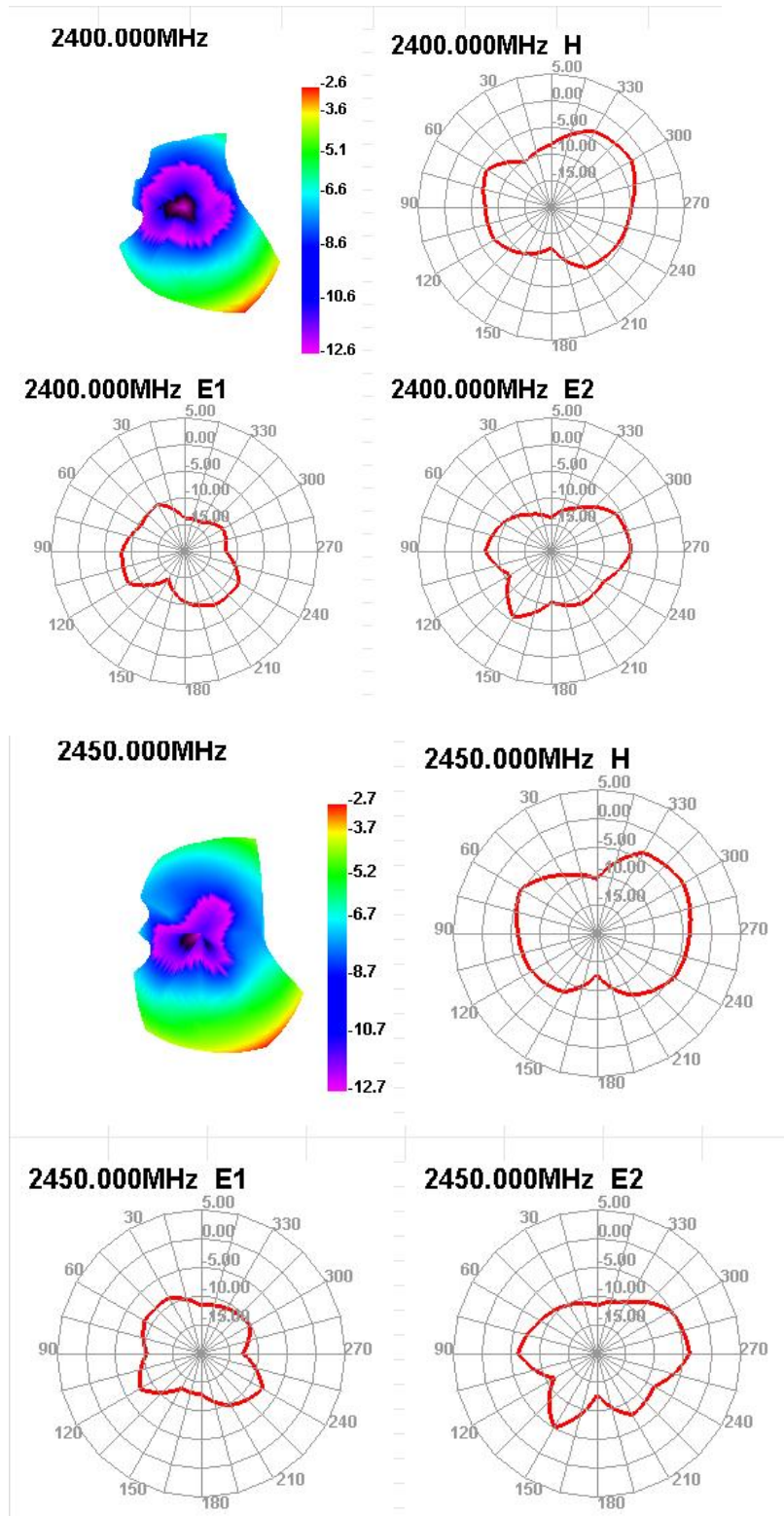
REV:A

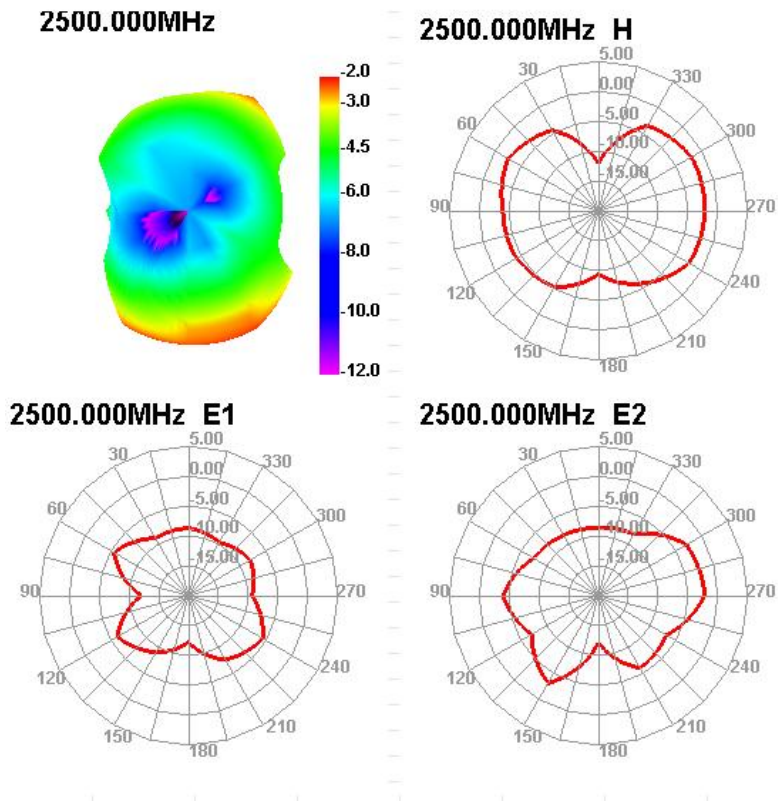
P W0.1
P W0.2
P W0.3
P W0.4
P W0.5
P W0.6
7 8 9

Efficiency and gain:

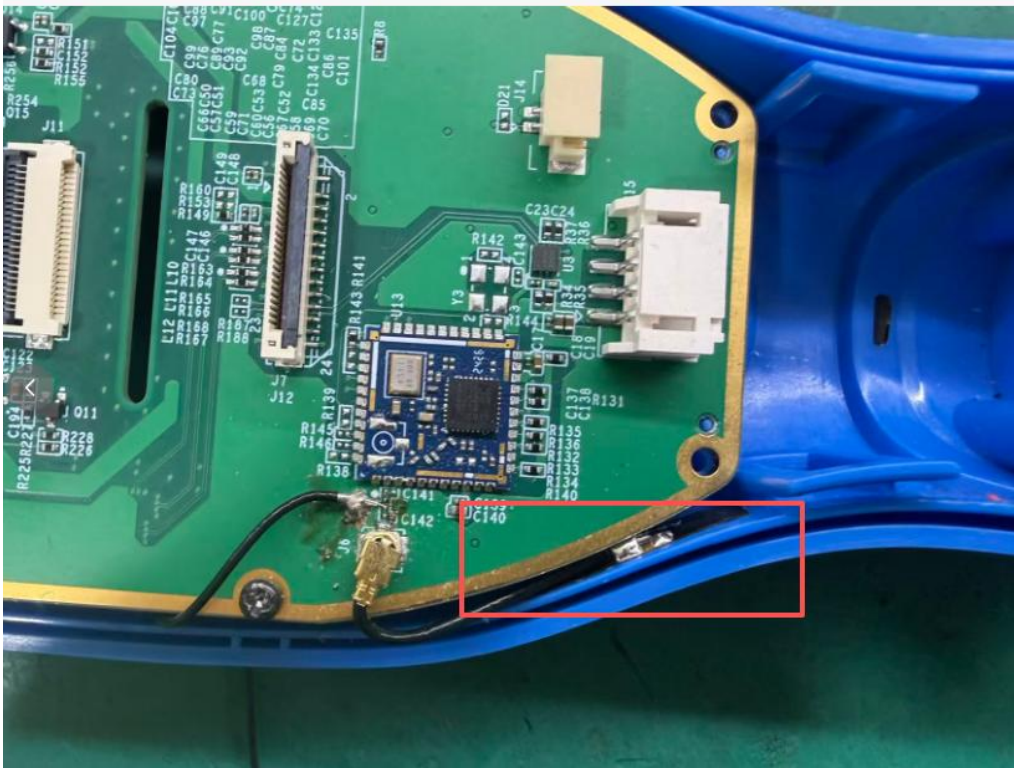
Freq (MHz)	Effi (%)	Gain (dBi)
2400	19.87	-2.59
2410	18.62	-2.68
2420	17.79	-2.16
2430	16.38	-2.88
2440	18.92	-2.15
2450	17.54	-2.69
2460	22.97	-1.77
2470	25.42	-1.55
2480	33.33	-0.64
2490	24.6	-2.2
2500	27.26	-2.01

Directional pattern and apple chart





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!