



Shenzhen Yishengbang Technology Co., Ltd

Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: Zhilintai

Project: KP1202

Product: WIFI -FPC

Report date: 2025-12-11

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Purpose

This report is to measure the performance of SLK for Master Antenna on Zhilintai. All measure data are showed below.

Content

1. Product Overview

2. Test Result

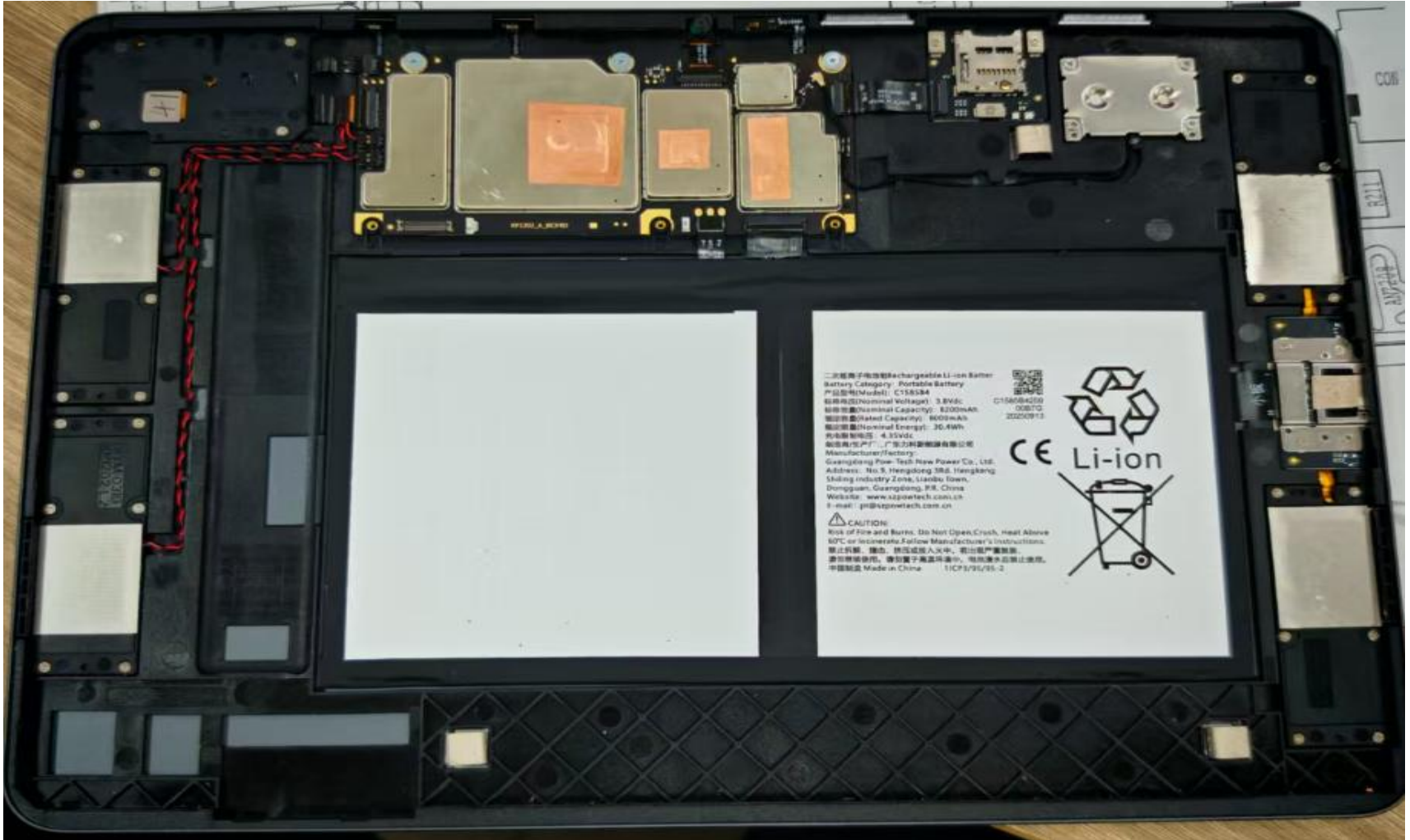
2.1 WIFI MAIN/AUX Antenna VSWR

2.2 WIFI MAIN/AUX Antenna Gain/Efficiency/3D DATA

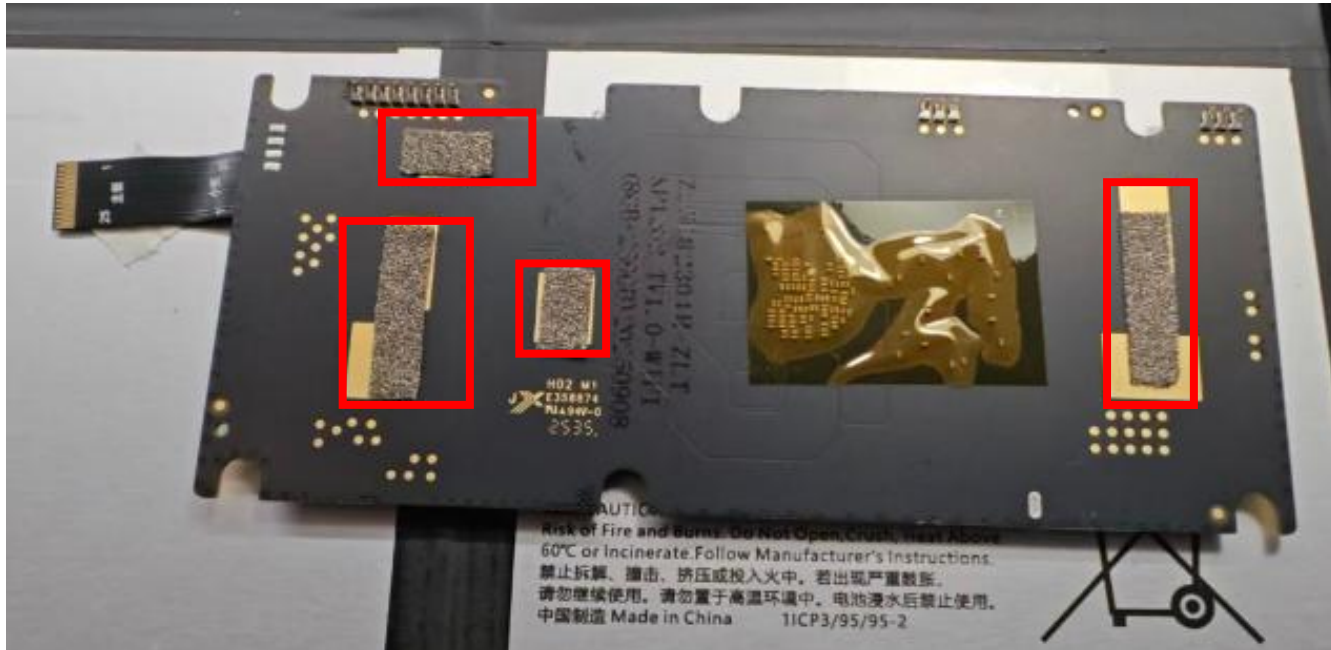
2.3 WIFI Antenna TRP/TIS

3. Conclusions

" 1. Product Overview

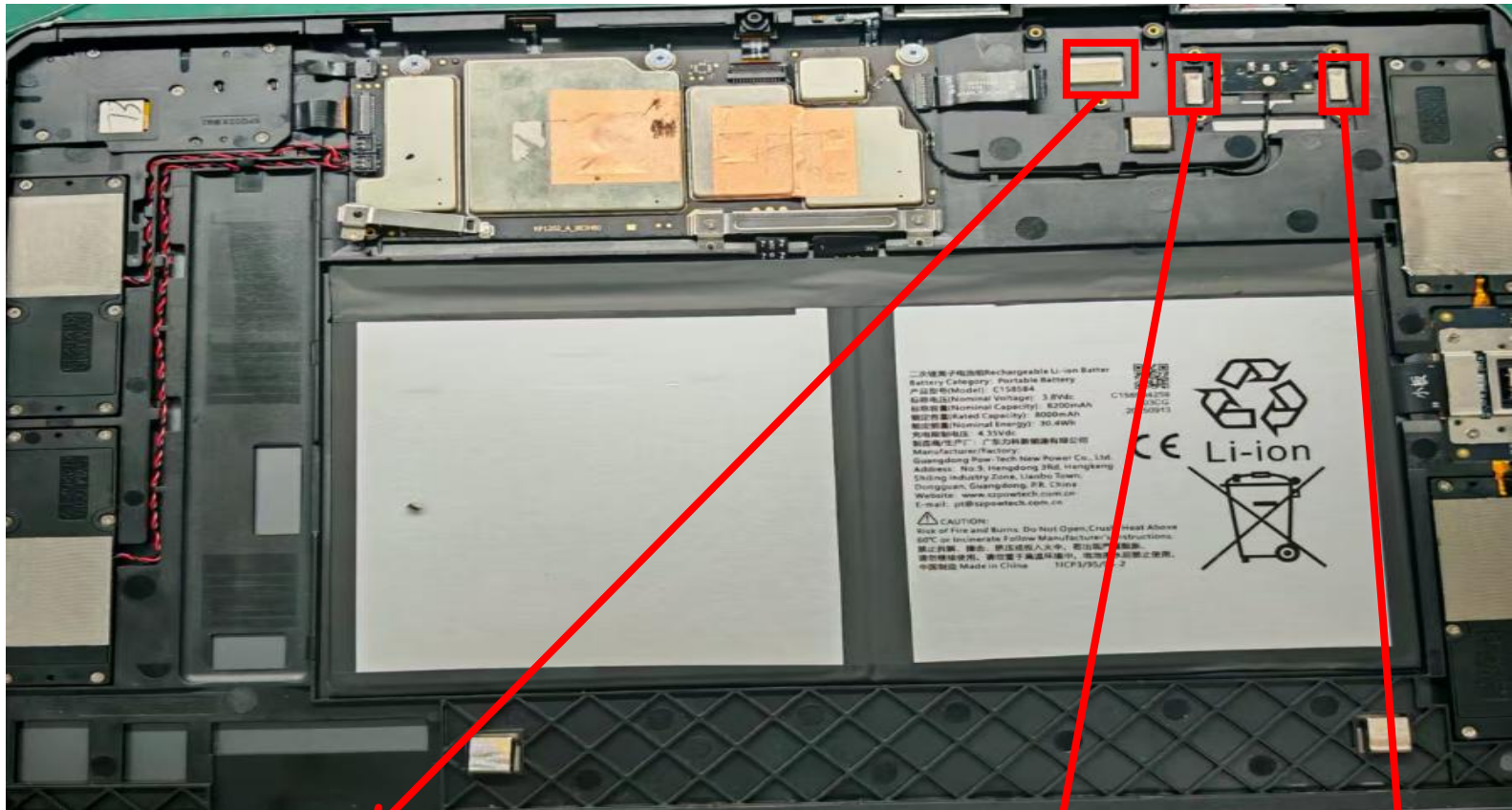


" 1. Product Overview



The conductive sponge is attached to the copper-exposed area of the small board, as indicated by the red boxed area in the above image

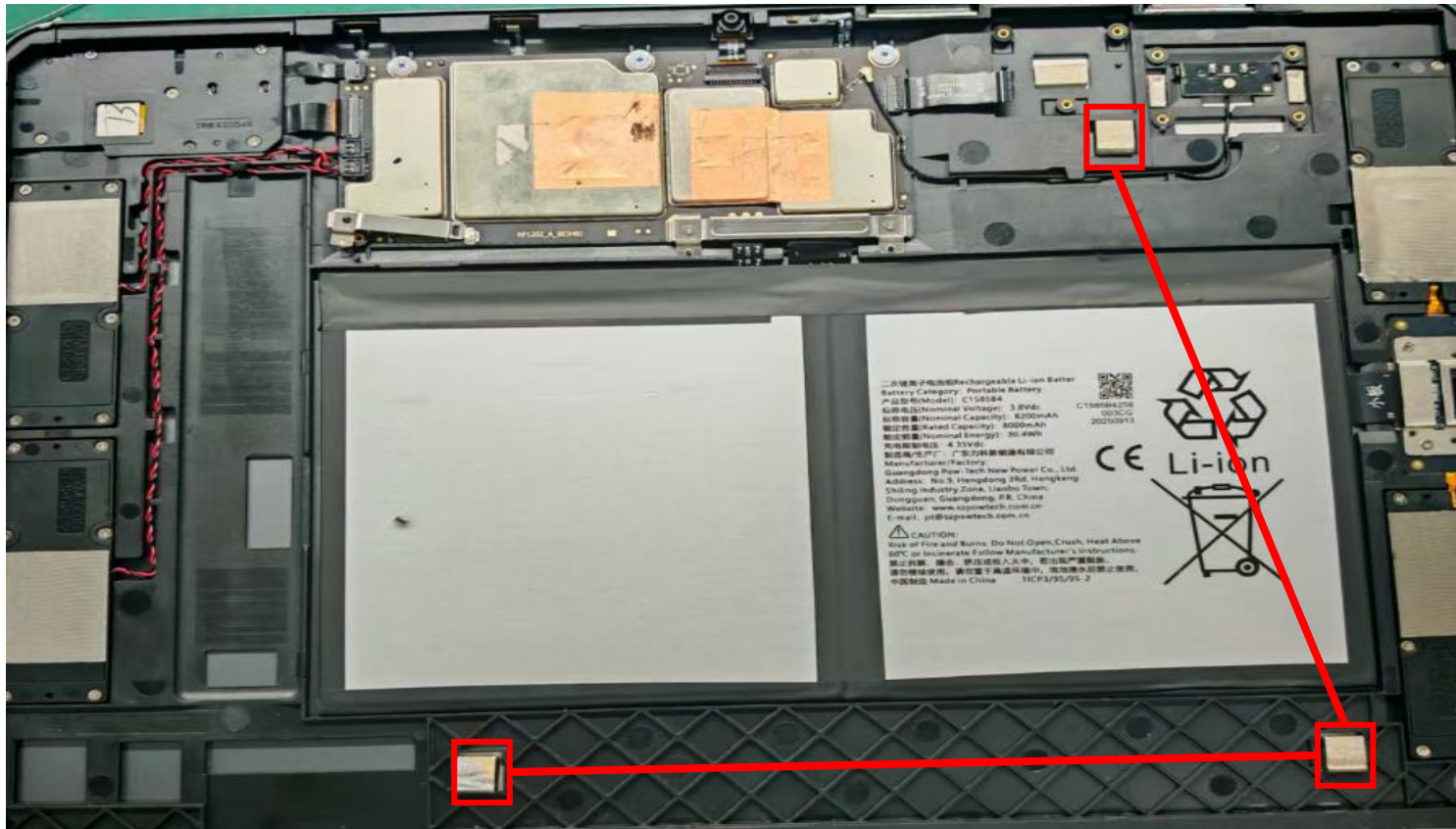
" 1. Product Overview



The area beneath the card slot is equipped with conductive foam for grounding purposes

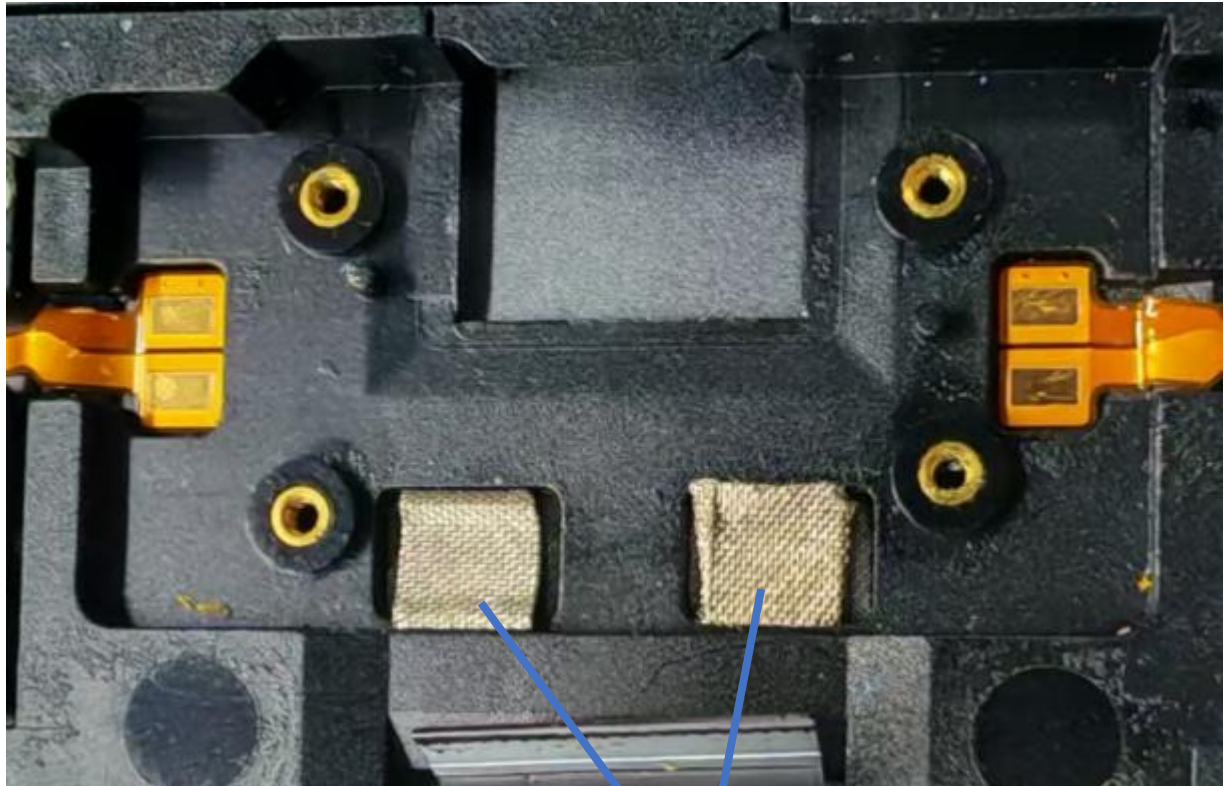
The conductive foam attached to both sides beneath the cavity antenna must be properly contacted, with sufficient height, and use good conductive foam

" 1. Product Overview



Apply conductive foam and screen frame grounding treatment at the three locations marked with red boxes in the image above

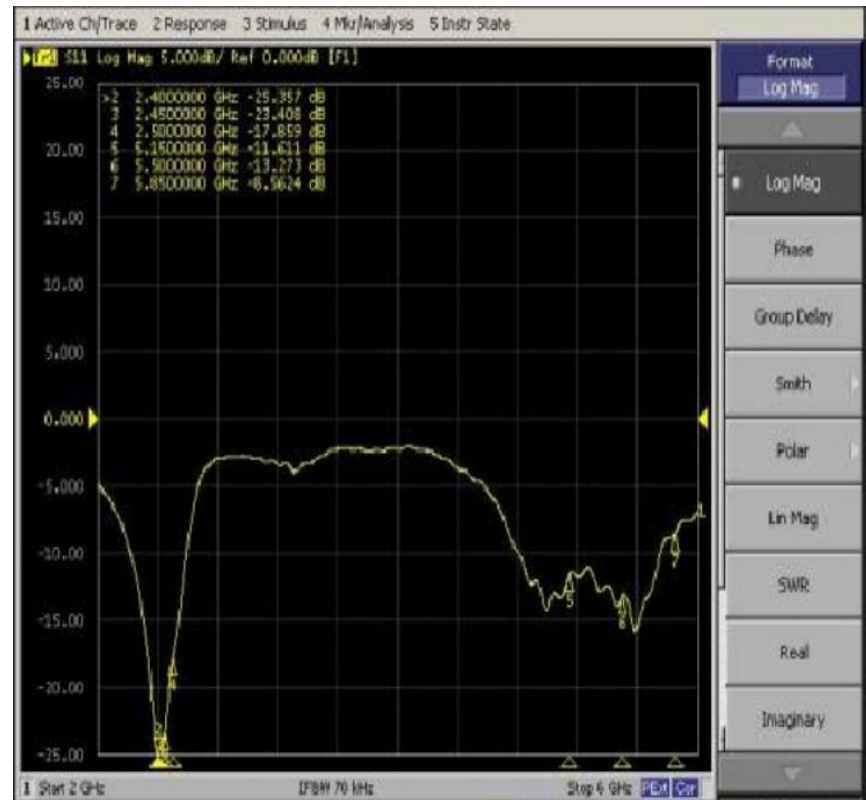
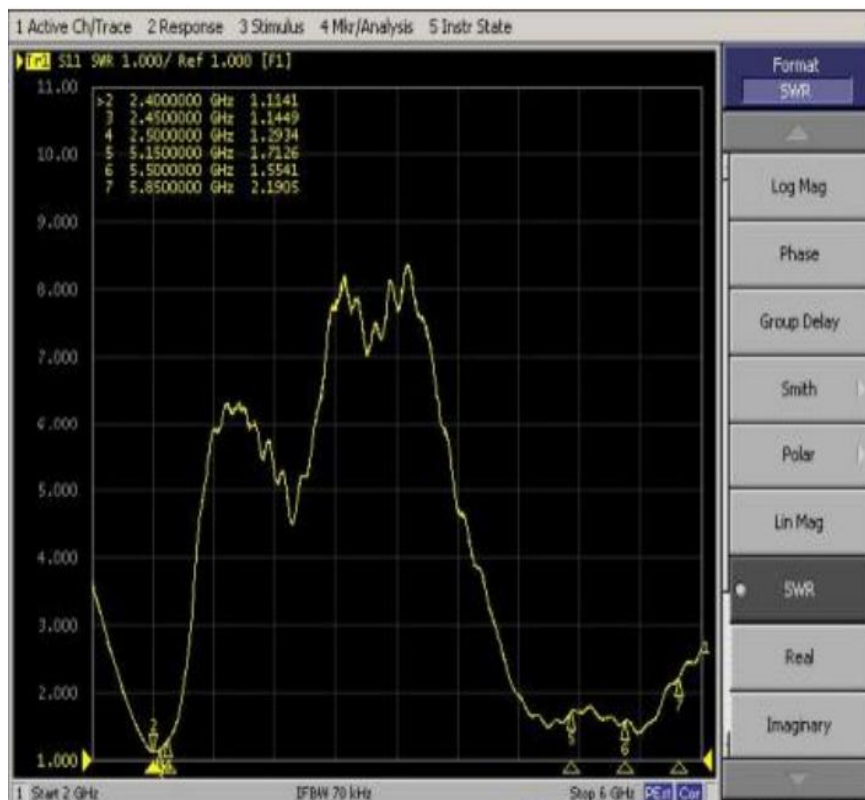
" 1. Product Overview



As shown in the above figure, TYPE-C
grounding treatment

2. Test Result

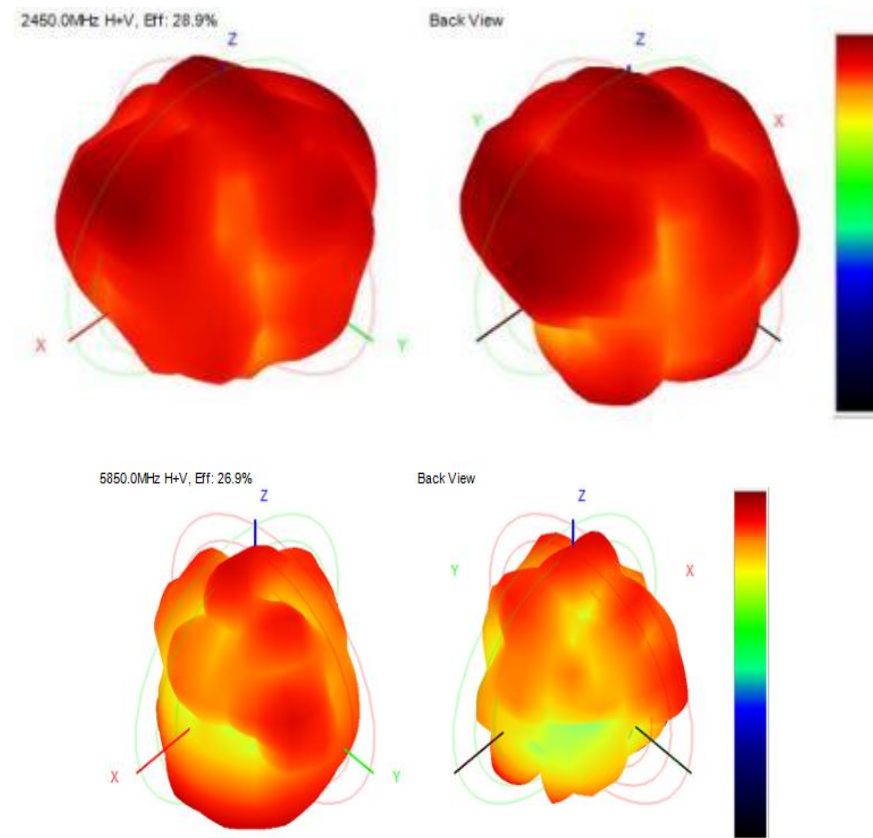
2.1 WIFI MAIN Antenna VSWR



2. Test Result

2.2 WIFI Antenna Gain/Efficiency/3D DATA

Frequency (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-5.82	-0.58	26.18
2410.0	-5.58	-0.80	27.65
2420.0	-5.40	-0.45	28.87
2430.0	-5.14	-0.02	30.62
2440.0	-5.31	0.19	29.42
2450.0	-5.26	0.51	29.77
2460.0	-5.37	0.84	29.01
2470.0	-5.59	1.34	27.59
2480.0	-5.58	1.61	27.67
2490.0	-5.73	1.85	26.73
2500.0	-6.07	1.94	25.70
5150.0	-6.60	1.87	24.89
5350.0	-6.51	0.29	24.35
5550.0	-6.05	2.57	24.86
5750.0	-6.58	1.20	25.00
5850.0	-6.86	0.41	26.91



2. Test Result

2.3 WIFI Antenna TRP/TIS (Unit 1)

WIFI active test with camera turned on			
frequency band	1	6	11
B-TRP-11Mbps	10.34	10.29	10.45
B-TIS-11Mbps	-79.16	-79.14	-79.19
G-TRP-54Mbps	8.30	8.27	8.29
G-TIS-54Mbps	-65.89	-65.78	-66.12
N-TRP-MCS7	8.37	8.53	8.64
N-TIS-MCS7	-63.20	-63.19	-63.59
frequency band	36	149	165
A-TRP-54Mbps	9.68	9.75	9.12
A-TIS-54Mbps	-68.12	-68.30	-68.07
AC-20M-MCS8	8.45	8.20	8.17
AC-20M-MCS8	-63.30	-63.11	-63.21

2. Test Result

2.3 WIFI Antenna TRP/TIS (Unit 2)

WIFI active test with camera turned on			
frequency band	1	6	11
B-TRP-11Mbps	10.45	10.33	10.65
B-TIS-11Mbps	-79.18	-79.30	-79.29
G-TRP-54Mbps	8.55	8.30	8.75
G-TIS-54Mbps	-65.76	-65.80	-66.49
N-TRP-MCS7	8.63	8.70	8.24
N-TIS-MCS7	-63.11	-63.42	-63.75
frequency band	36	149	165
A-TRP-54Mbps	10.16	9.37	9.65
A-TIS-54Mbps	-69.03	-68.95	-68.11
AC-20M-MCS8	8.31	8.12	8.09
AC-20M-MCS8	-63.12	-63.24	-63.22



3. Conclusions

Thank you!