

Antenna Test Report

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Tester : Liu tao

Approval : Yin tao

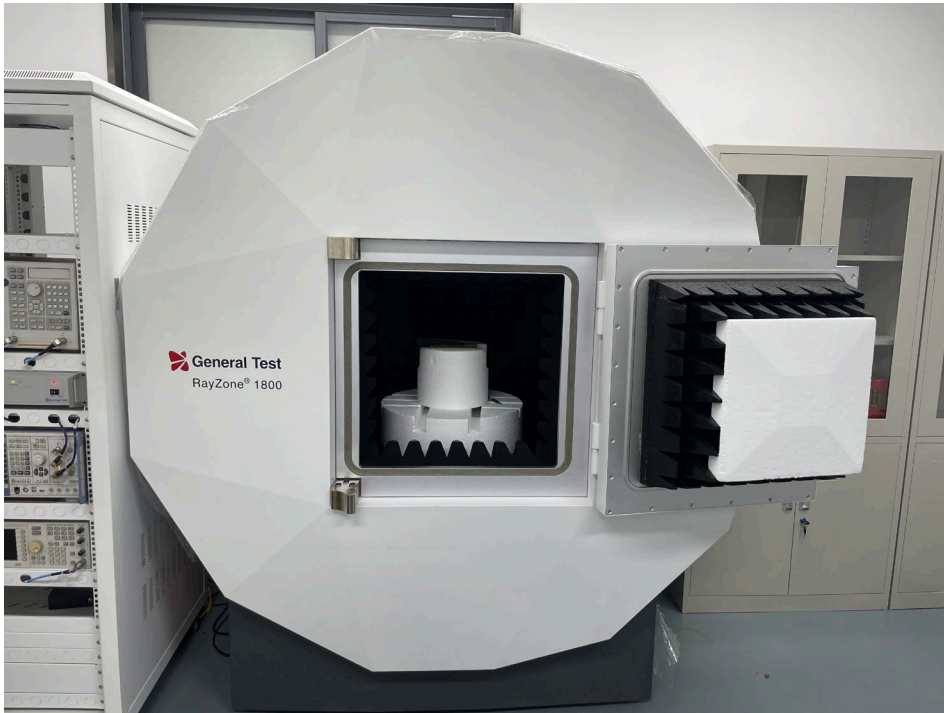
Date : 2026 /01/ 29



Project name		IM30-V3-WIFI
Name of antenna		FPC
Antenna form		PIFA
Radiate		Omni-directional
Polarization		Line polarization
Device calibration date	5071C	2025/06/15~2026/06/15
	General Test	2025/08/20~2026/08/20



1. Antenna Passive Test





2. Device Profile

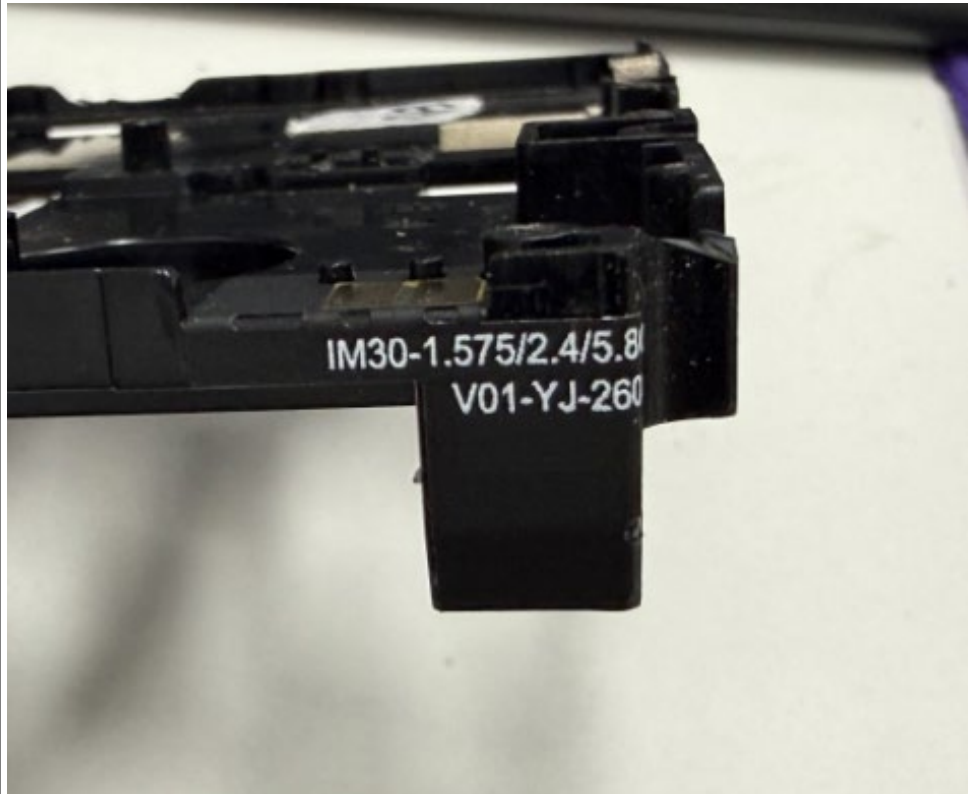
Device

Please refer to the external photos.



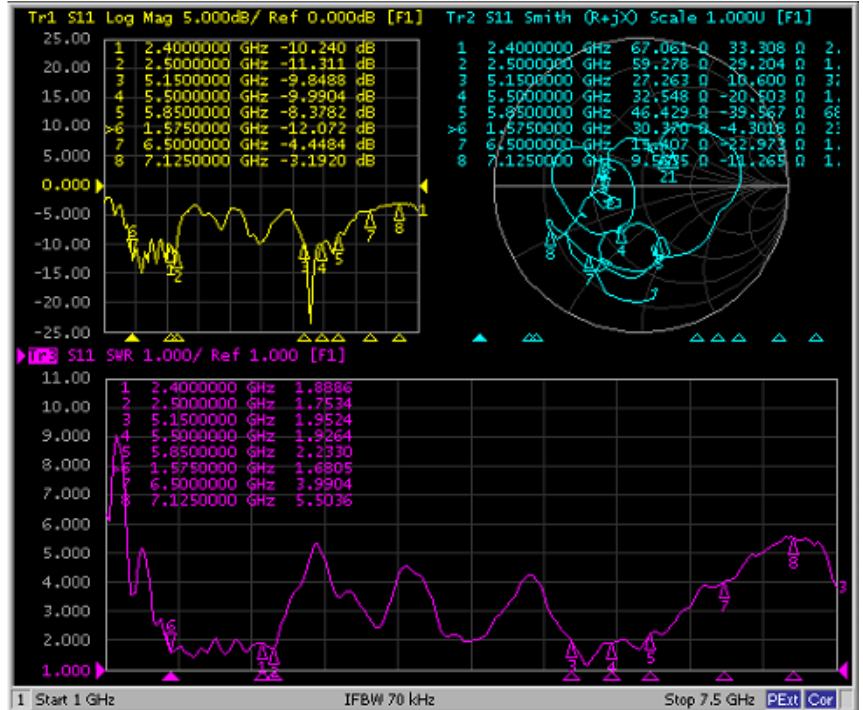
3. WIFI Antenna Test

***WIFI
Antenna***





*Agilent
E5071C
S11
Parameter
Test // WIFI
Antenna*



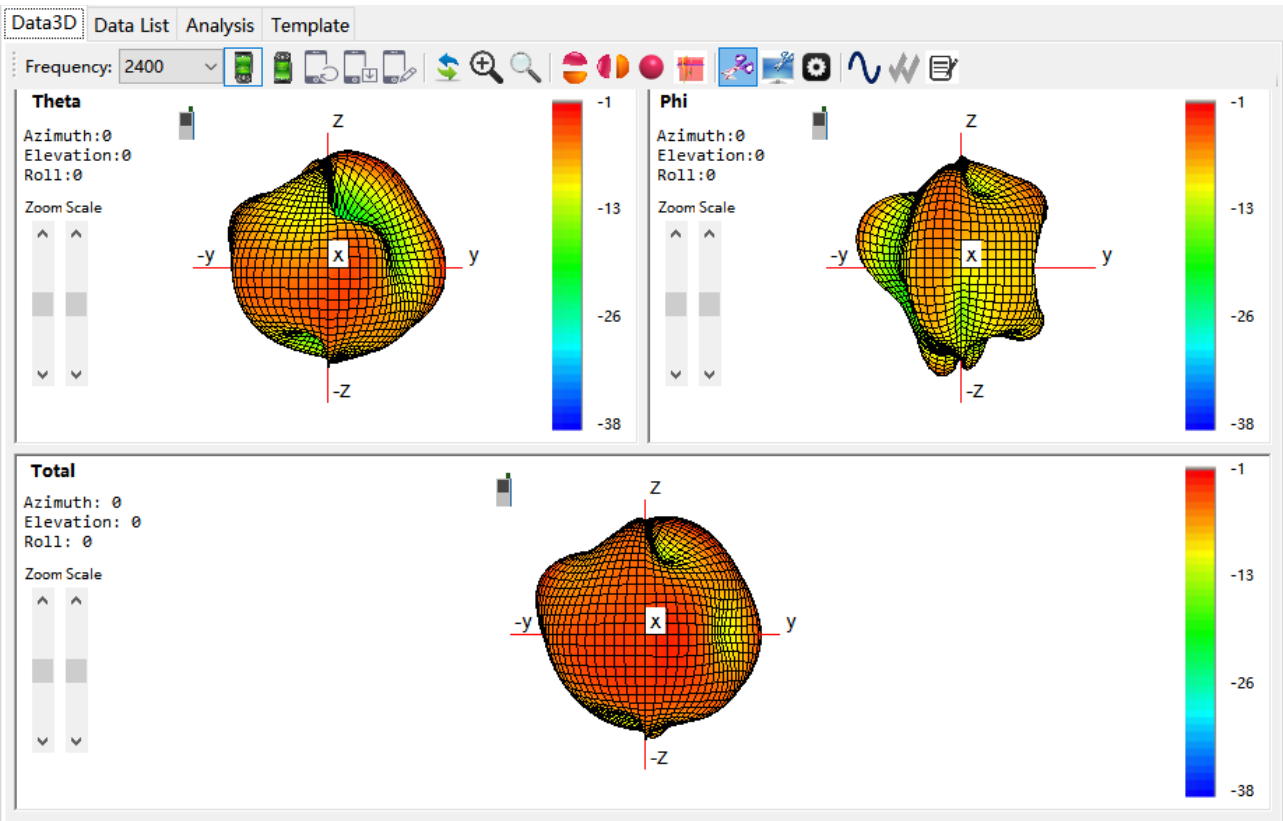


Passive Test For WiFi Antenna(2.4G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	25.68	-5.9	-1.8
2410	25.8	-5.88	-1.98
2420	26.37	-5.79	-2.06
2430	26.97	-5.69	-2.04
2440	27.44	-5.62	-1.79
2450	27.7	-5.57	-1.63
2460	27.8	-5.56	-1.37
2470	28.23	-5.49	-1.1
2480	28.12	-5.51	-0.88
2490	27.49	-5.61	-0.76
2500	27.09	-5.67	-0.62

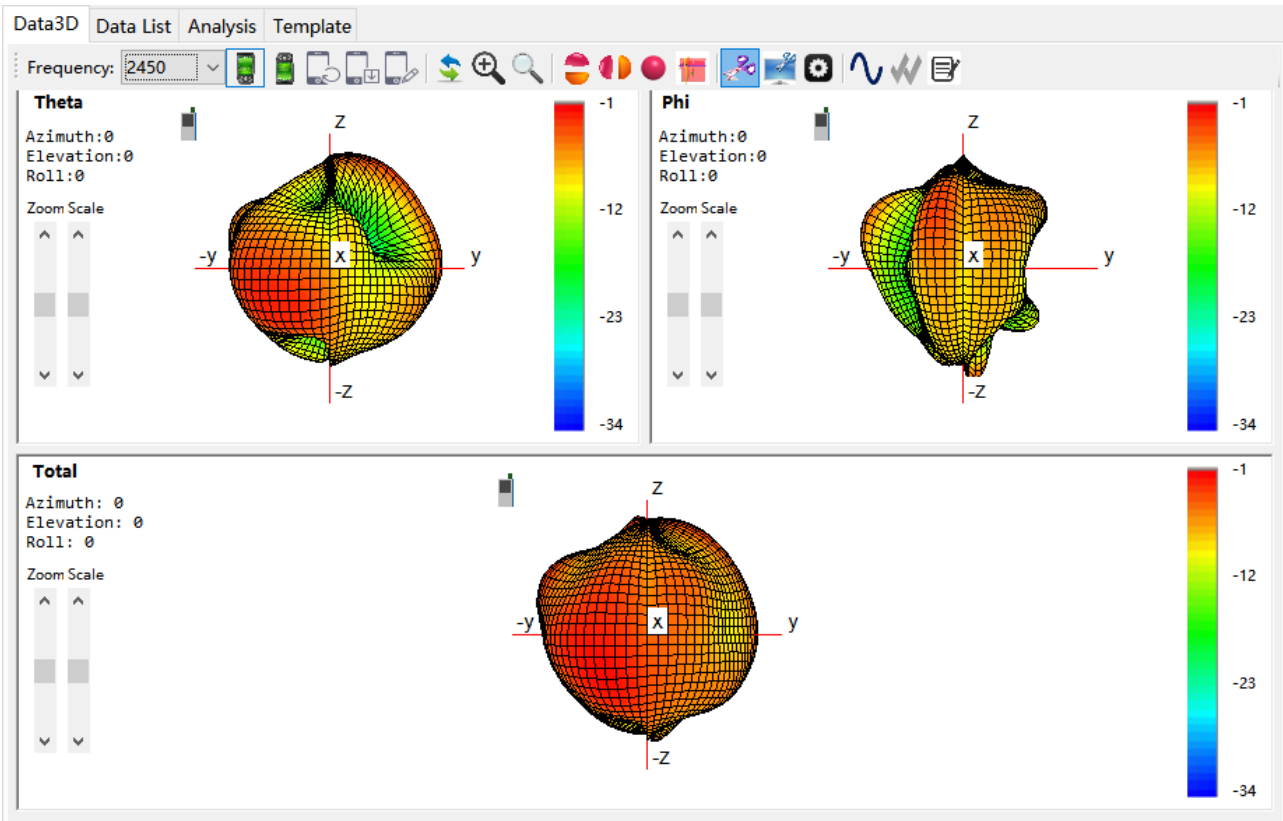


Radiation Pattern For WIFI Antenna (2400MHz)



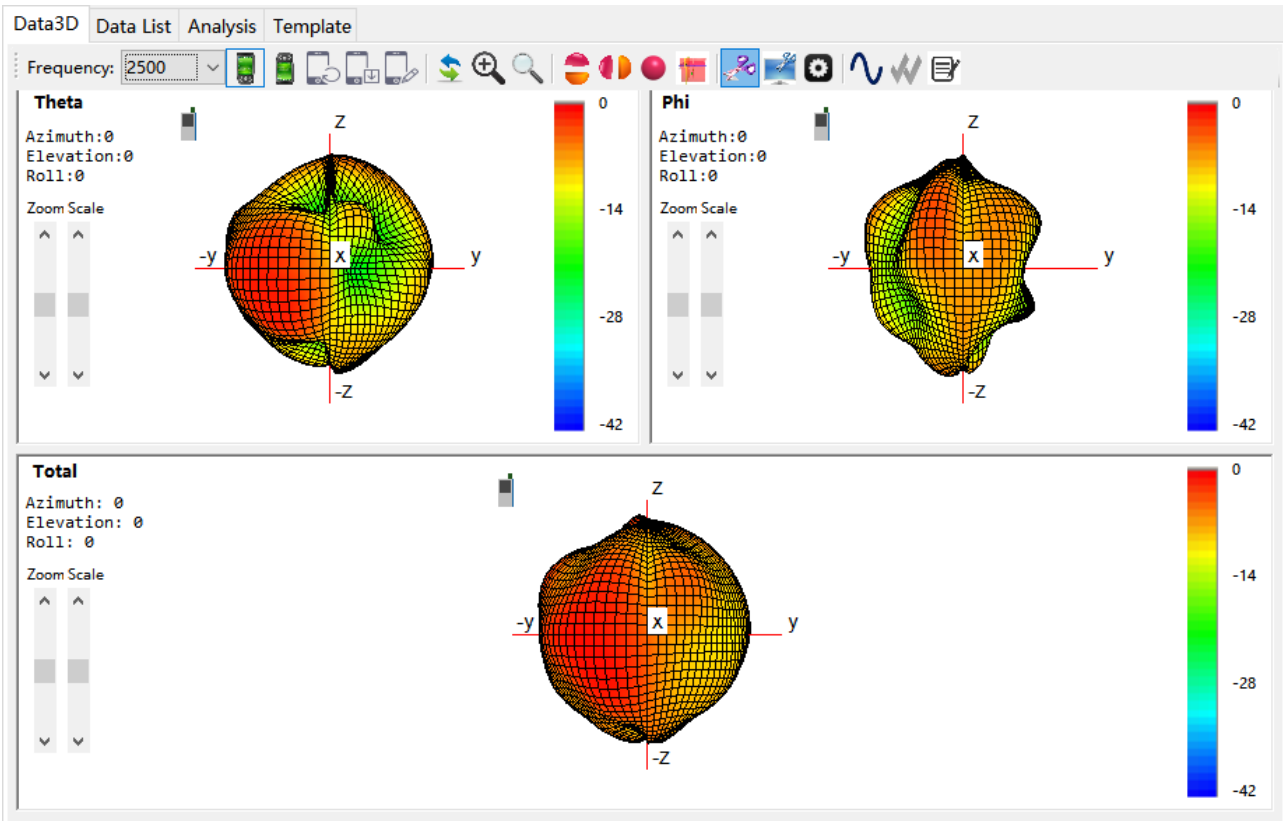


Radiation Pattern For WIFI Antenna (2450MHz)





Radiation Pattern For WIFI Antenna (2500MHz)



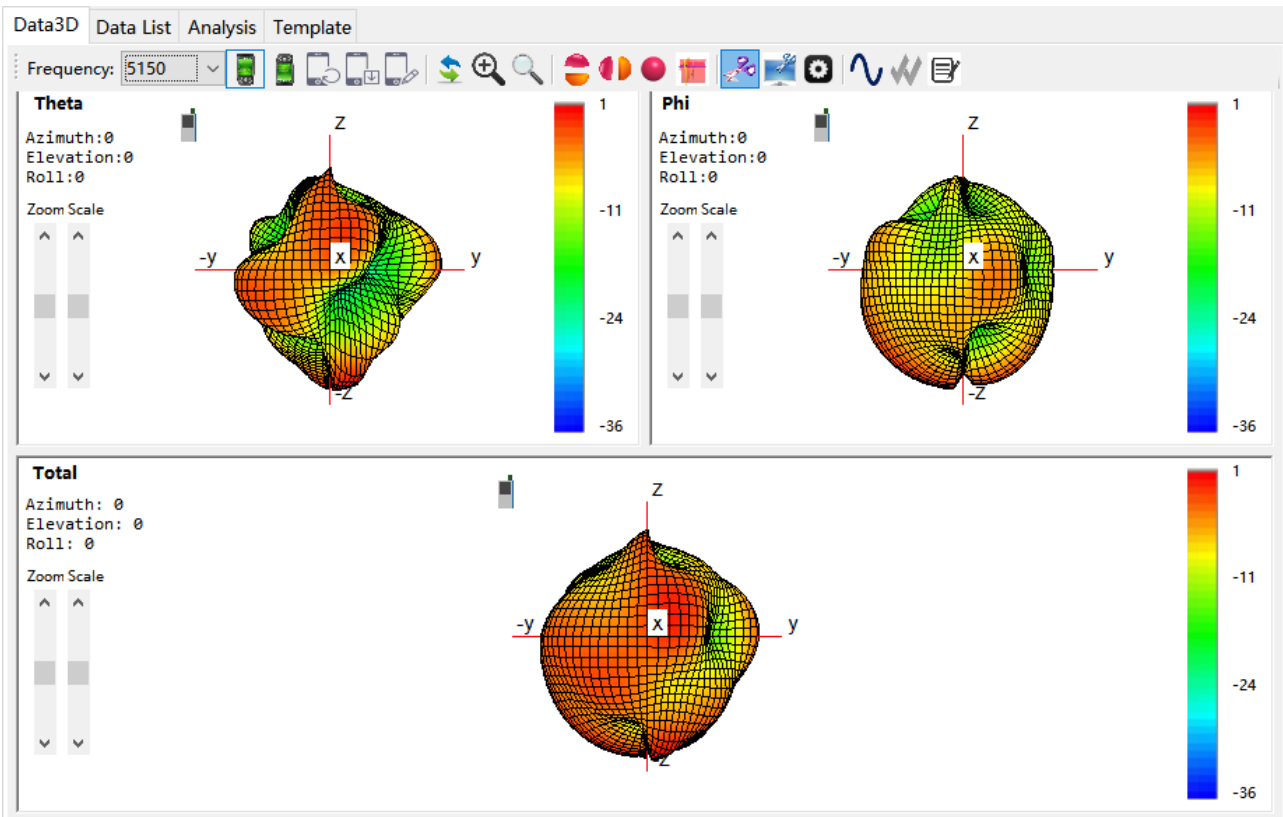


Passive Test For WiFi Antenna(5.8G)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	30.86	-5.11	0.05
5200	32.88	-4.83	0.31
5250	32.52	-4.88	0.62
5300	31.07	-5.08	1.1
5350	33.65	-4.73	1.56
5400	35.15	-4.54	1.44
5450	36.81	-4.34	1.65
5500	32.77	-4.85	1.43
5550	33.5	-4.75	1.11
5600	35.39	-4.51	0.99
5650	34.87	-4.58	1.36
5700	32.32	-4.9	1.45
5750	29.42	-5.31	1.2
5800	31.4	-5.03	1.83
5850	30.22	-5.2	2.13

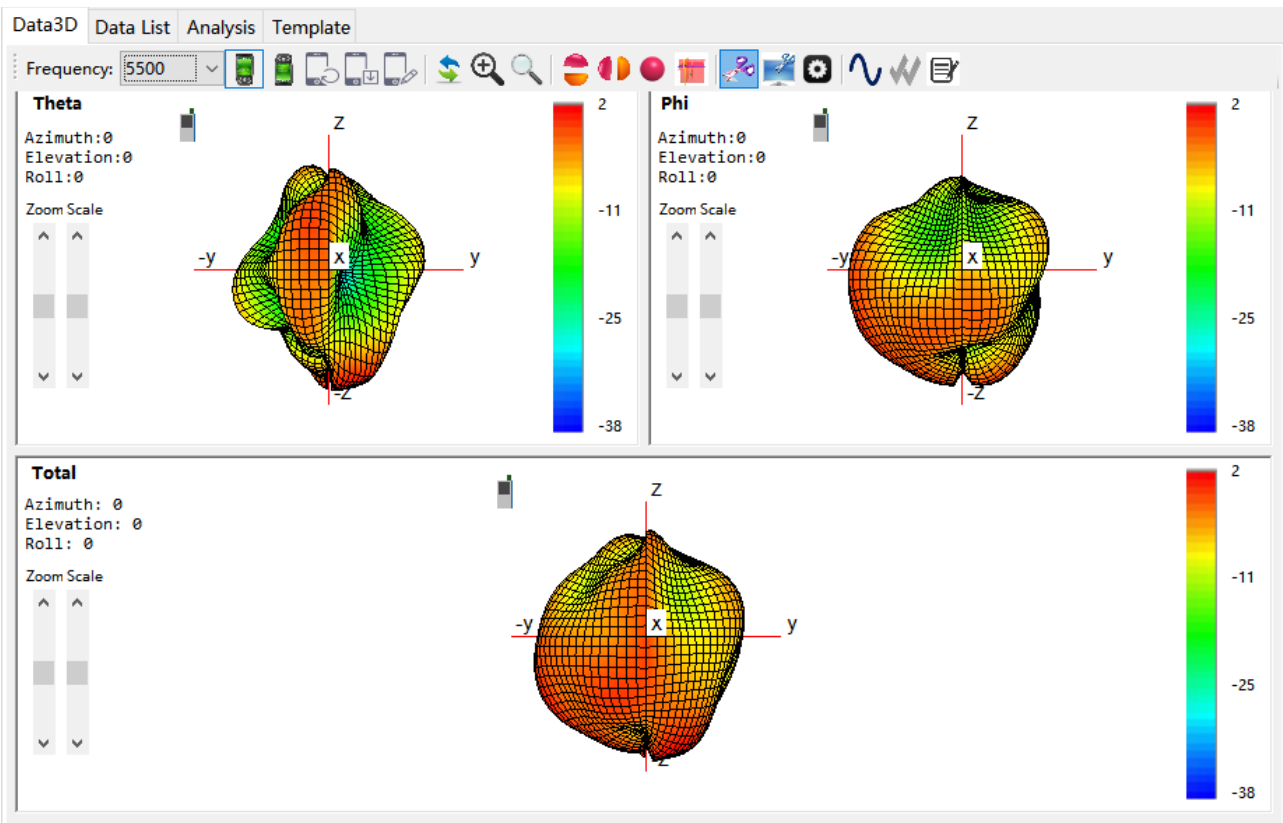


Radiation Pattern For WIFI Antenna (5150MHz)



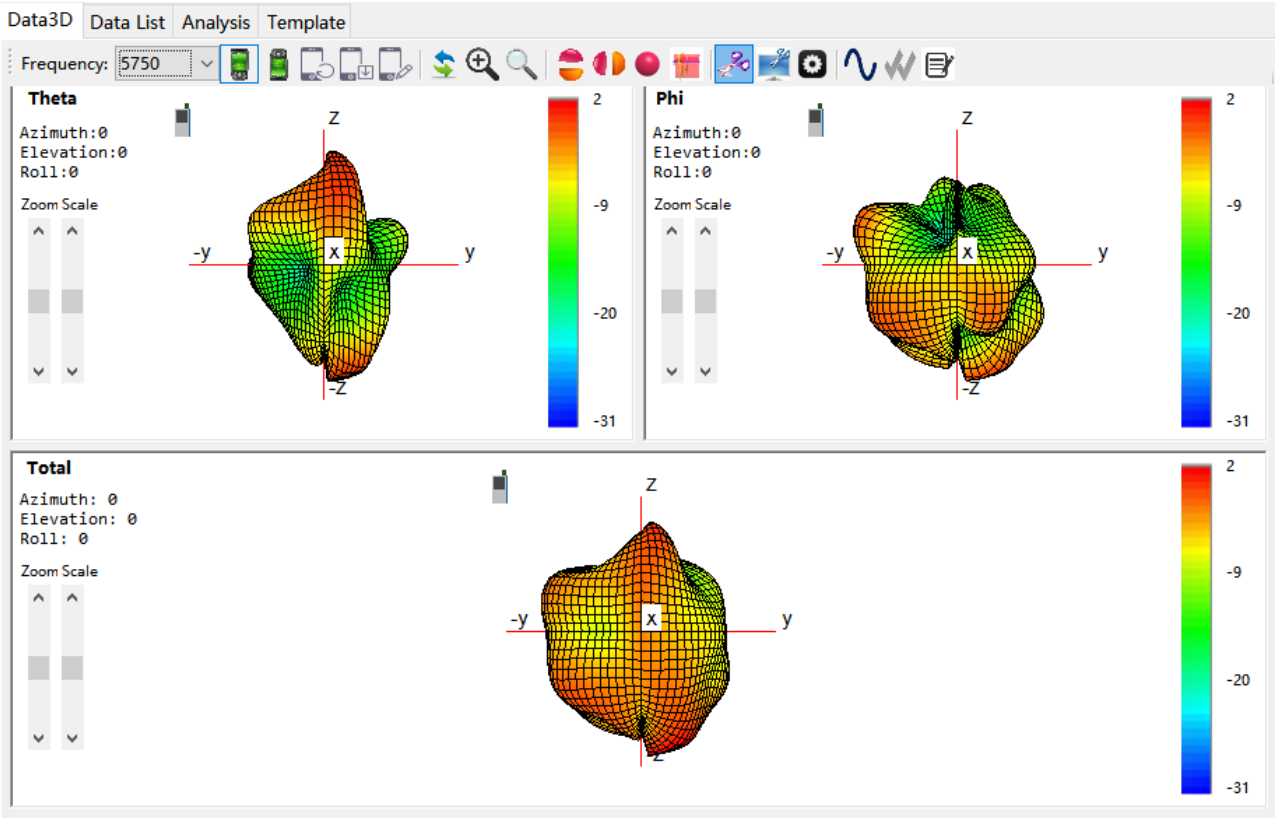


Radiation Pattern For WIFI Antenna (5500MHz)



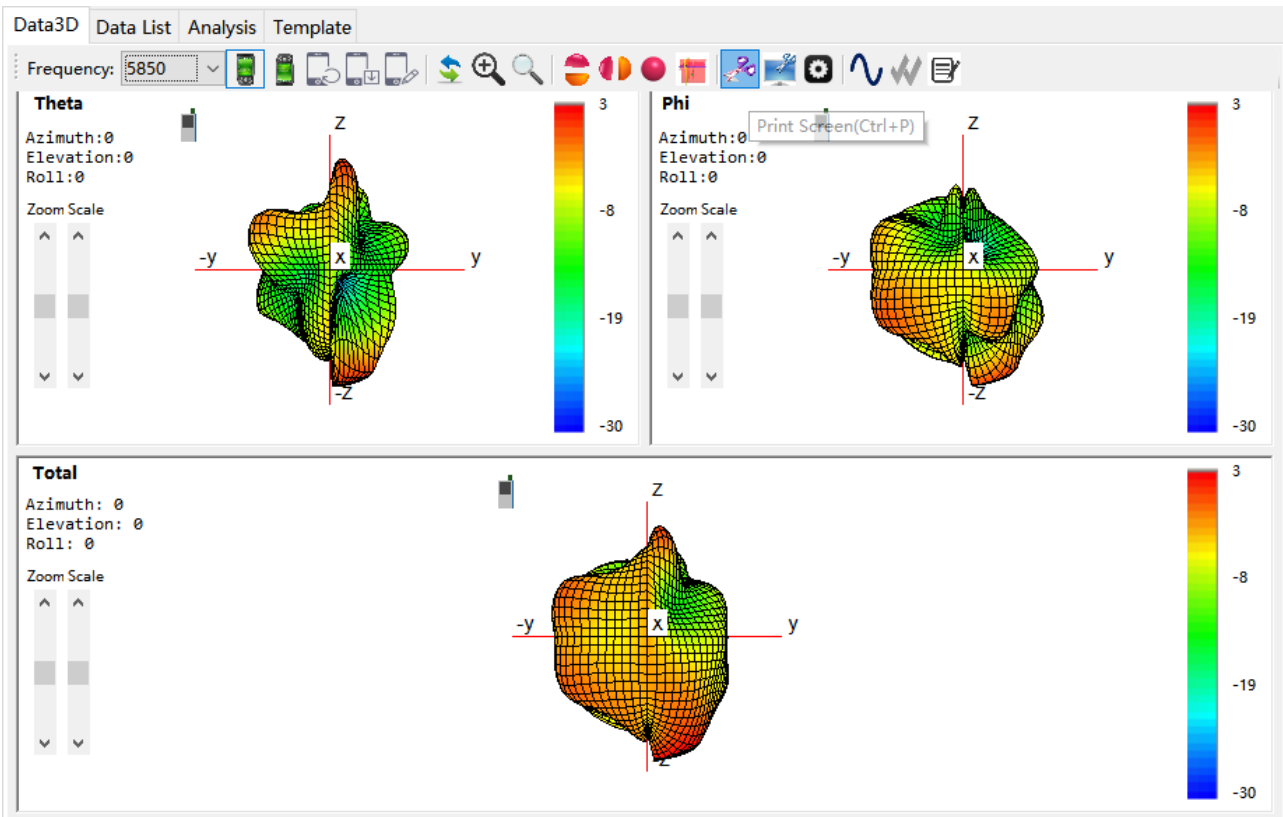


Radiation Pattern For WIFI Antenna (5750MHz)





Radiation Pattern For WIFI Antenna (5850MHz)





RoHS

CUSTOMER
PART NO.

REV.

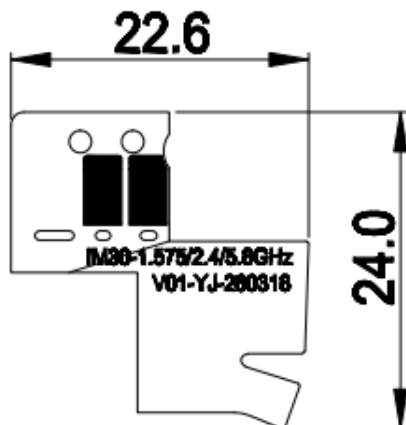
DESCRIPTION

DATE



Initial Issue

2020-03-18



■ Gold-plated area

▨ The wiring area

Note:

1. Material: a pair of half PI substrate, copper foil thickness 0.5oz, Finished thickness without release paper: 0.1mm.
2. Color/surface treatment: single side black ink, white screen printing. Gold-plated copper exposed area, back 3MS471 adhesive, yellow no print release tape divider.
3. Micromucon full plate packaging
4. Size: with * as the key size.
5. Tolerance: No marked tolerance refer to standard tolerance.



东莞市一佳电子科技有限公司
DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

PART NAME: 1.575/2.4/5.0GHz Antenna

PART NO.: YJ01.006.215.300A

DATE: 2020-03-18

APPROVED BY

CHECKED BY

DESIGNED BY

UNITS: mm

Tolerance

Yin Tao

Liu Tao

Huang ta yong

SCALE: 1:1

X.X ±0.50

REVISION: C

X.X ±0.15

X° ±3°