

TEST DATA

Applicant	Hannto Technology Co., Ltd.
Product	Amber M110 Instant Photo Printer; Amber M210 Instant Photo Printer
Model	DHP514; DHP515
HW Version	/
SW Version	/
Application No	Y2410A1635-T1
Test Date	November 1, 2024

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

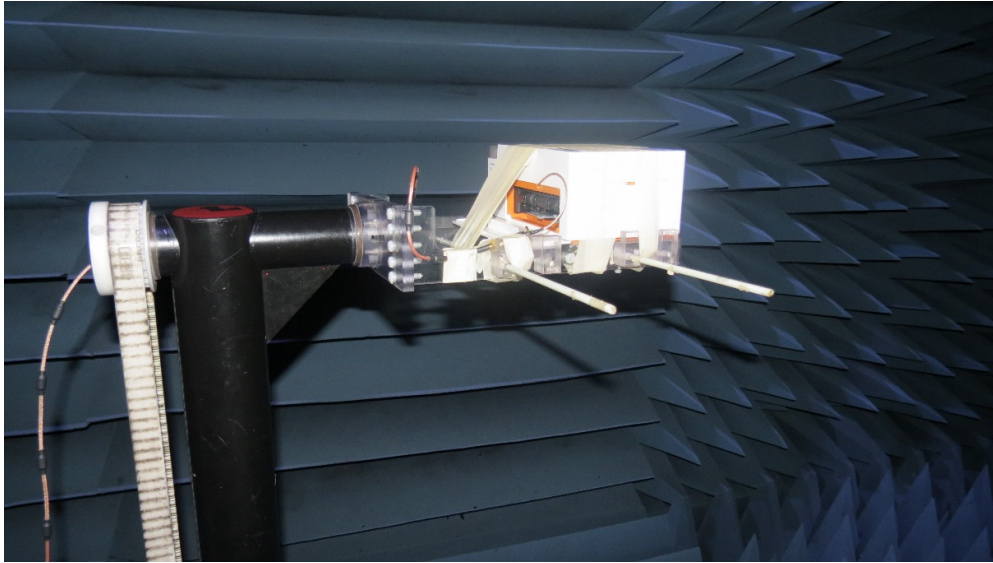
TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

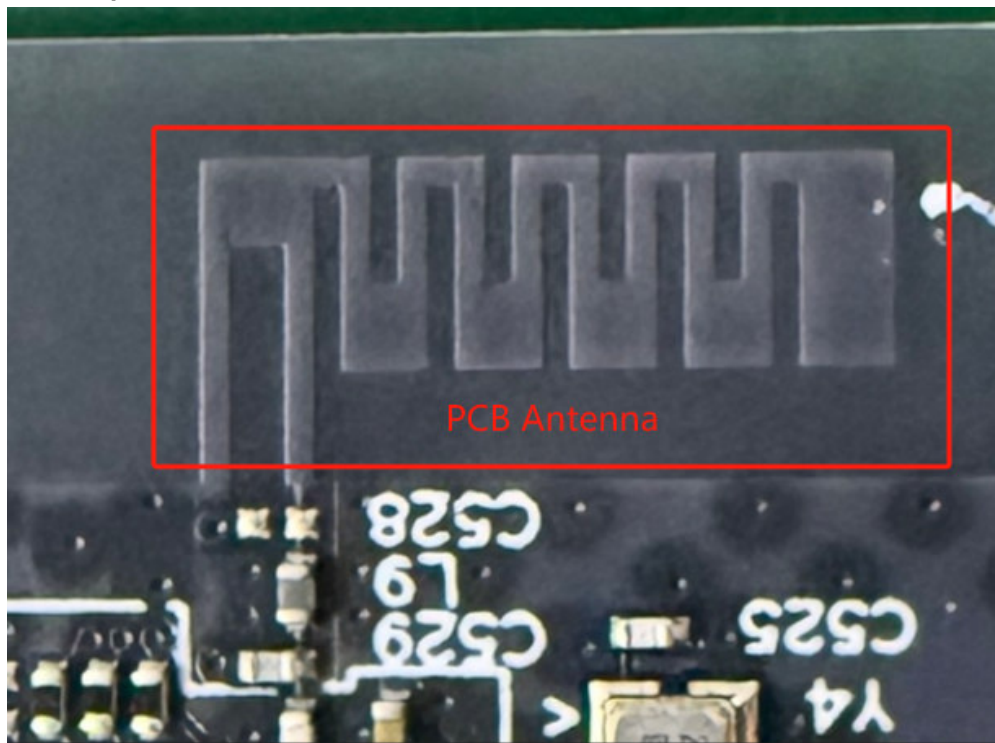
The differences between the two models are shown in the table below:

Model	DHP514	DHP515
Product	Amber M110 Instant Photo Printer	Amber M210 Instant Photo Printer
Power supply	Lithium battery/ AC power supply	AC power supply
Note: The customer claimed that the wireless chip and PCB antenna of DHP514 and DHP515 are exactly the same. Only DHP515 was tested here.		

Test Setup



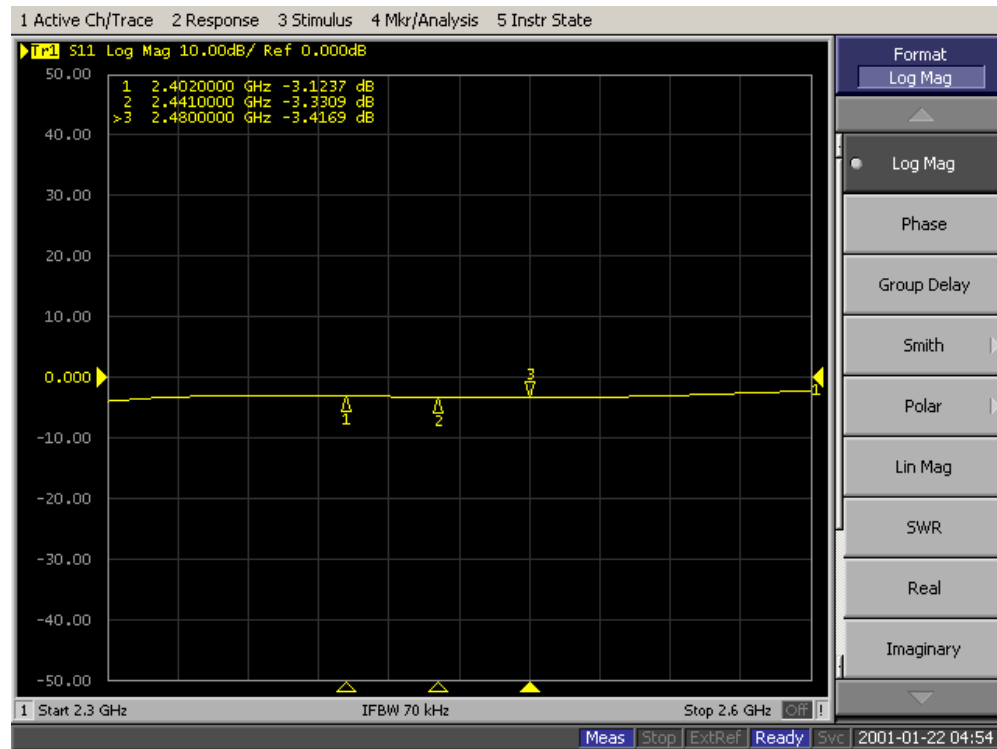
1. Antenna Sample



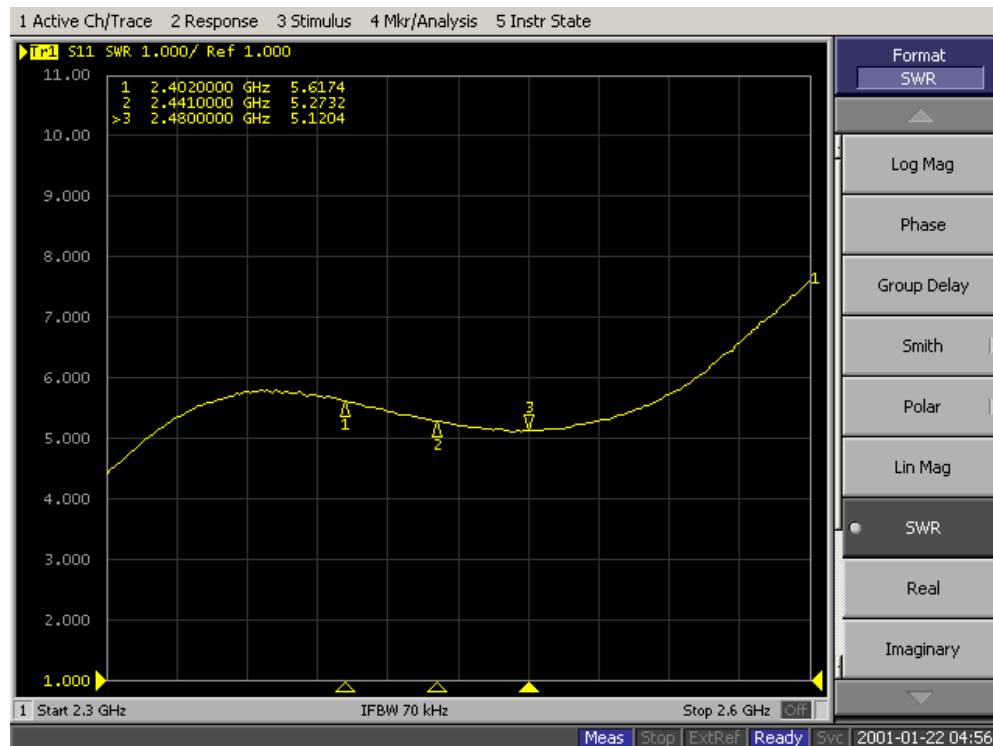
Peak Gain: -2.55 dBi

Size: 12 x 3.5 mm

2. Return Loss



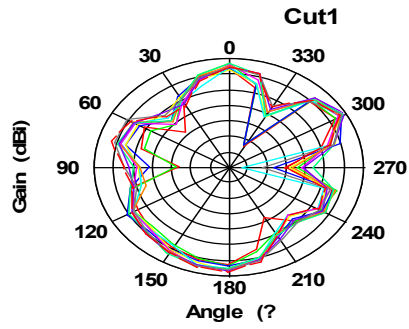
4. VSWR



5. Efficiency and Gain

Test Item	Test State	Frequency (MHz)	Efficiency (%)	Gain(dBi)	Note
GAIN	FS	2400	12.81	-2.55	/
		2410	13.10	-3.01	
		2420	13.05	-2.98	
		2430	12.32	-3.21	
		2440	10.69	-3.81	
		2450	11.83	-2.97	
		2460	12.11	-3.46	
		2470	12.28	-3.08	
		2480	11.68	-3.50	
		2490	11.44	-3.16	
		2500	11.75	-3.39	

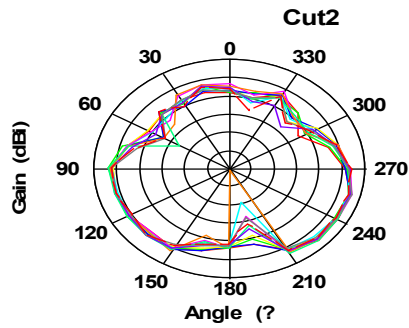
Max: -5
Min: -40
Scale: 5/div



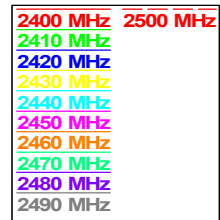
Horizontally Polarized XY plane



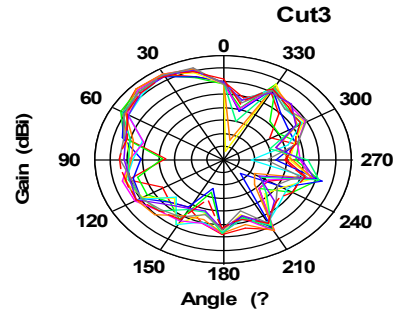
Max: 0
Min: -60
Scale: 10/div



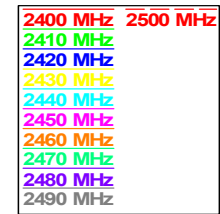
Horizontally Polarized XZ plane



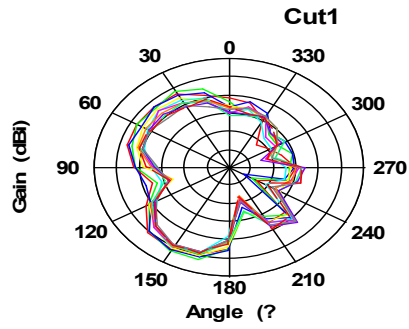
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Min: -45
Scale: 5/div



Horizontally Polarized YZ plane



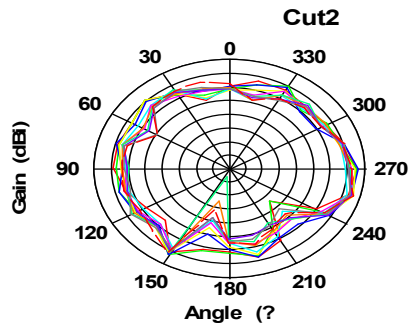
Max: 0
Min: -30
Scale: 5/div



2400 MHz	2500 MHz
2410 MHz	
2420 MHz	
2430 MHz	
2440 MHz	
2450 MHz	
2460 MHz	
2470 MHz	
2480 MHz	
2490 MHz	

Vertical Polarization XY plane

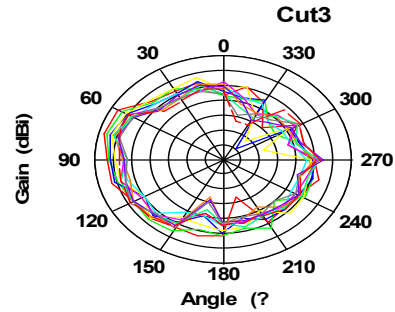
Max: -5
Min: -45
Scale: 5/div



2400 MHz	2500 MHz
2410 MHz	
2420 MHz	
2430 MHz	
2440 MHz	
2450 MHz	
2460 MHz	
2470 MHz	
2480 MHz	
2490 MHz	

Vertical Polarization XZ plane

Max: -5
Min: -40
Scale: 5/div



2400 MHz	2500 MHz
2410 MHz	
2420 MHz	
2430 MHz	
2440 MHz	
2450 MHz	
2460 MHz	
2470 MHz	
2480 MHz	
2490 MHz	

Vertical Polarization YZ plane

*****END OF DATA *****