


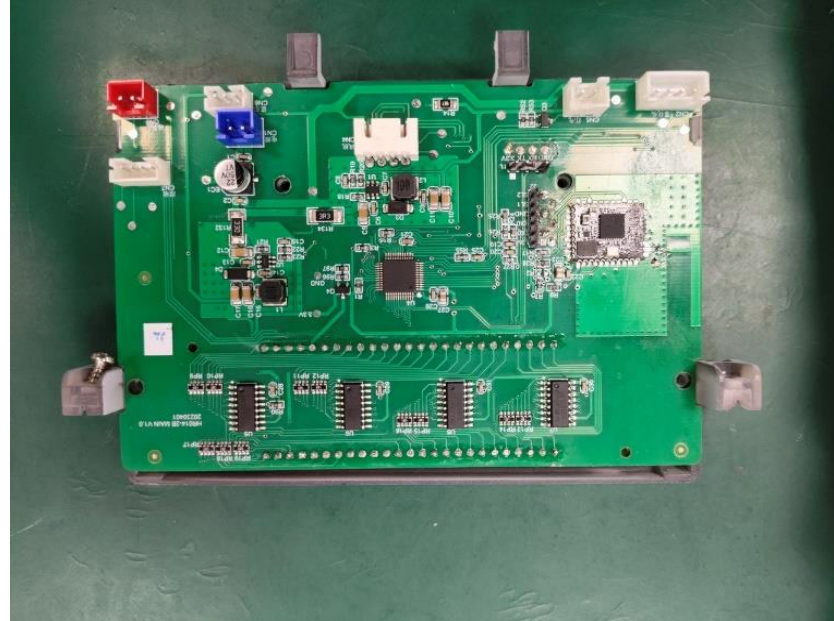
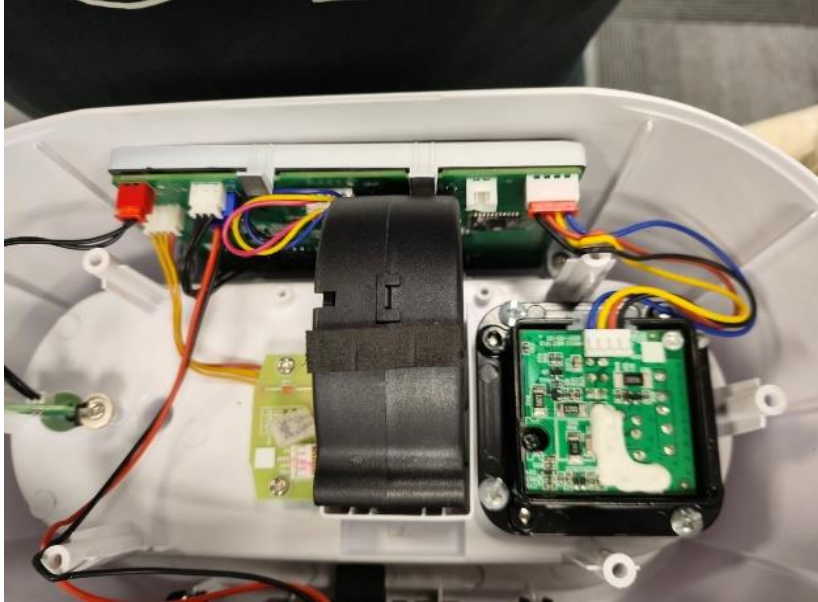
Product Information						
Client	LDS		Protocol		WiFi	
Project Number	空气加湿器		Sample Quantity		1	
Model Number			PCB Version		V2.0-Y1	
Chip Type			Structure Version		正式模	
Sample Pictures						
Summary						
No.	Items	Idx			Test Result	Conclusion
1	<u>Efficiency (%)</u>	A (≥45%)	B (25%~44.99%)	C ≤24.99%	WiFi: 46%	A
2	<u>VSWR</u>	≤2.5			1.5	PASS
3	<u>Distance Test</u>	WiFi 100M	BLE 10M	Zigbee 40M	100M	PASS
Author		DeYun Li			Test Date	2023.05.04
Verifier		DeYun Li			Review Date	2023.05.04
Version		V1.0			Revise Content	Reviser

## Test Environment

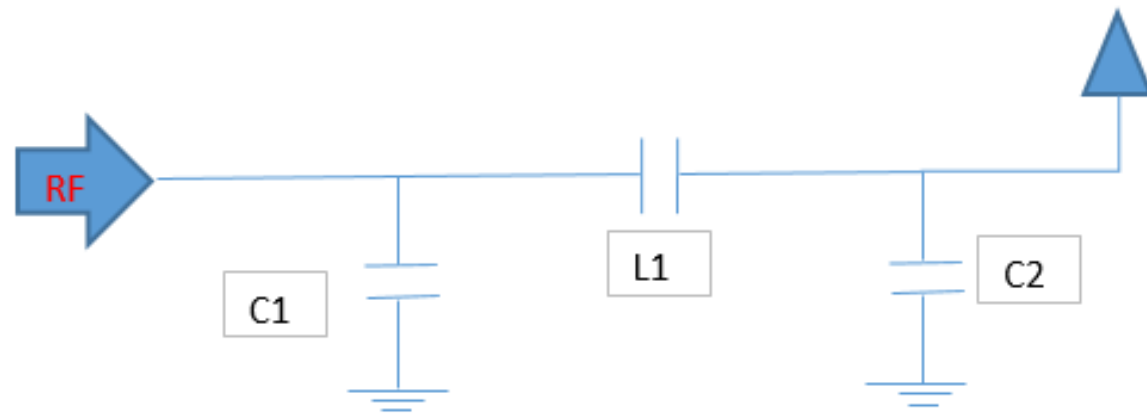
### SY-16M Test System



Picture



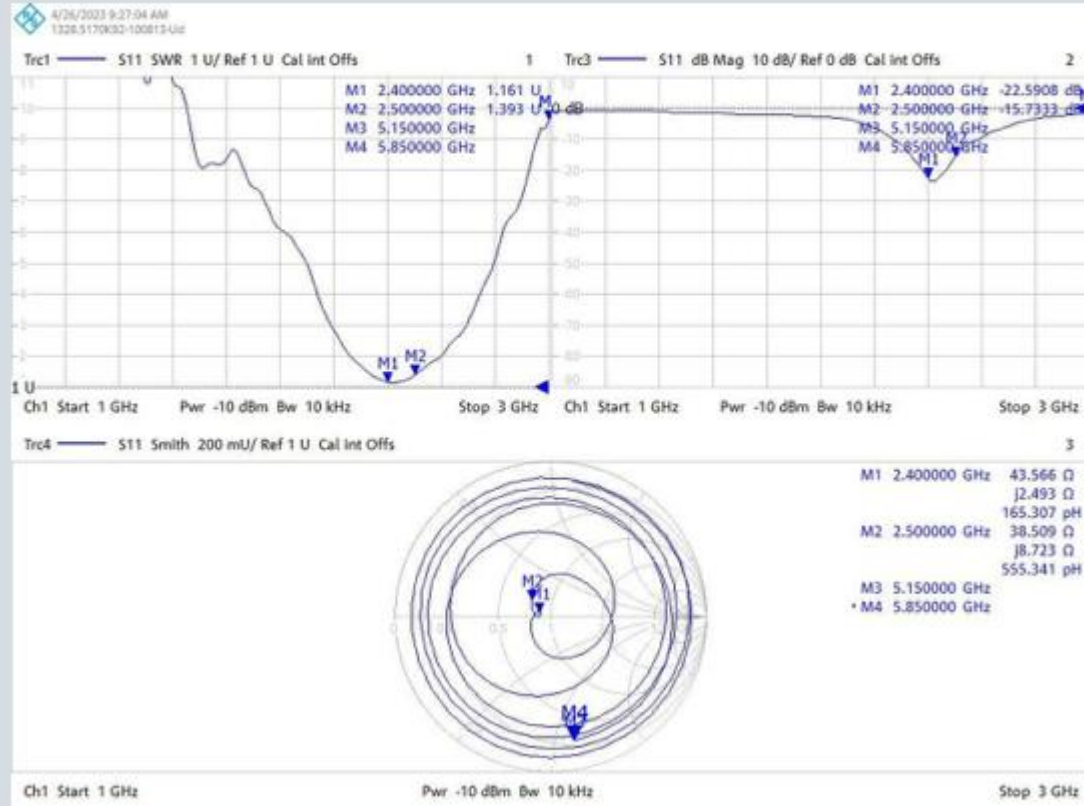
## Antenna Matching



# WiFi 前 Test Result

## VNA Data

### VSWR & Return Loss & Smith Chart

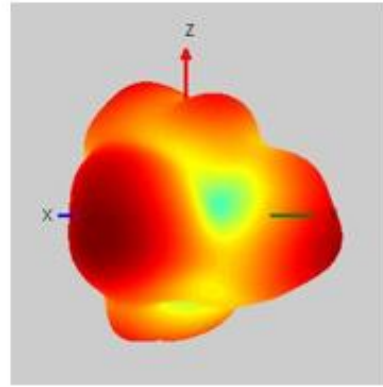


Chamber Data

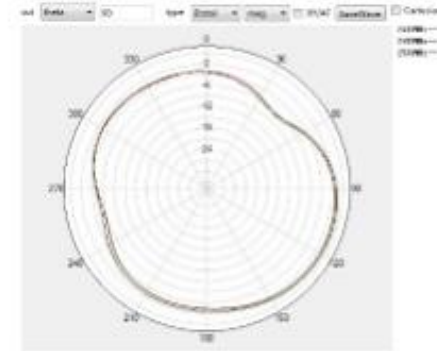
Gain & Efficiency

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	2.30	-3.42	45.50
2410	2.31	-3.35	46.24
2420	2.25	-3.19	47.97
2440	2.19	-3.37	46.03
2450	2.15	-3.36	46.13
2460	1.88	-3.26	47.21
2470	1.71	-3.25	47.32
2480	1.73	-3.30	46.77
2490	1.64	-3.25	47.32
2500	1.64	-3.09	49.09
MIN	1.75	-3.04	49.66
Max	2.31	-3.09	49.09
AVG	1.98	-3.28	46.96

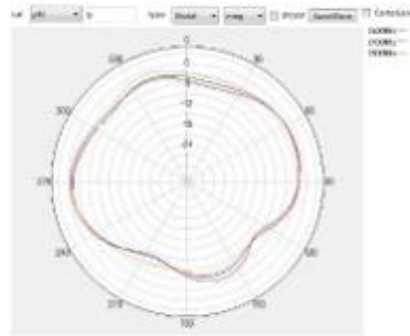
3D



$\theta = 90^\circ$  (XY Plane)



$\phi = 0^\circ$  (XZ Plane)



$\phi = 90^\circ$  (YZ Plane)

