



ShenZhen City Flink Wi Technology CO., LTD.

SPECIFICATION FOR APPROVED

CUSTOMER: _____

PRODUCTS: _____ FPC antenna _____

PART NO: _____

YL-H41B-V3

Spec. : _____

Data: _____ 2023. 4. 13 _____

REMARK: Please send us one(or copy) of this approval with stamp after accepting, other copies filed by the customer.

Address: 606 Huachuangda Business Building, Yu'an 1st Road, Bao'an 45 District, Shenzhen

Tel: 0755-26976277

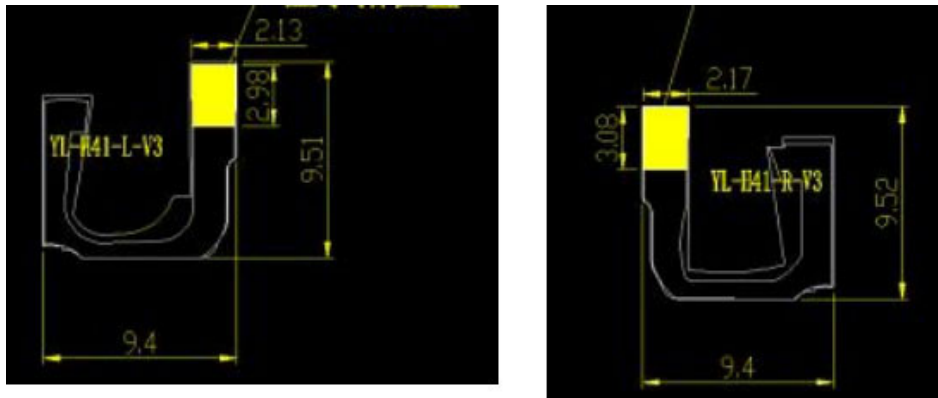
Fax: 0755-26976277

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1. Project Information

1.1. Appearance and Dimensions

Test points	Specifications	test result
Overall dimensions	9.51mm*9.4mm (± 0.3 mm)	OK
Goldfinger	2.98*2.13, 3.08*2.17mm (± 0.3 mm)	OK
drawing		

Inspection items		Inspection results
(S.W.P)	25um copper+12.5um glue+12.5umPI	OK
texture of material	Electrolytic Copper	OK
texture of material	3M300LSE	OK
electroplate	electroplate	OK
Appearance	Appearance	OK

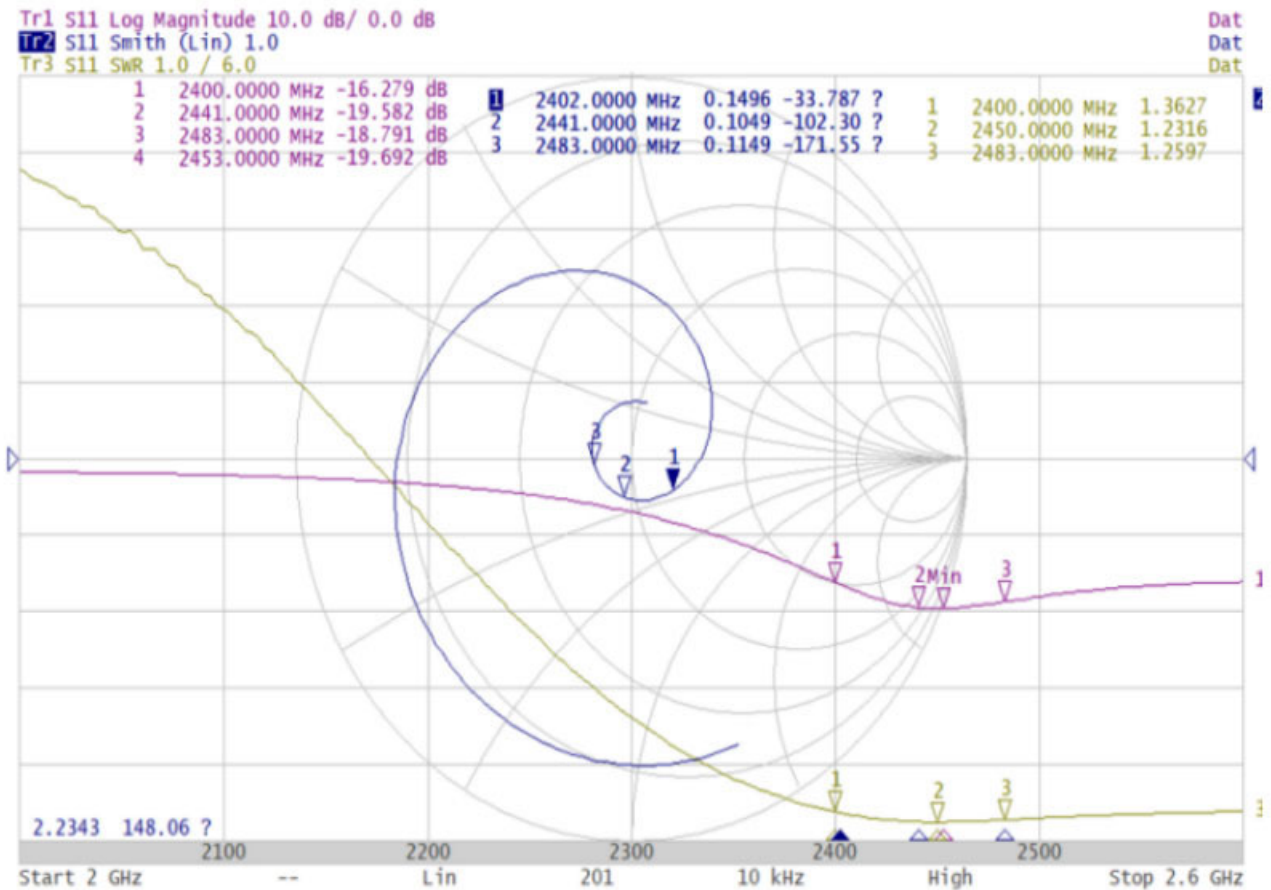
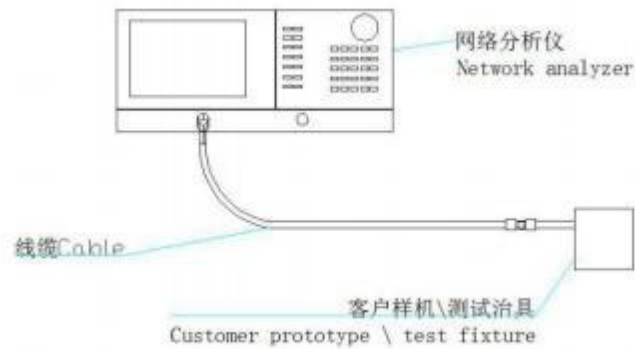
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2. Electrical Characteristics

2.1. Test Environment Conditions

Temperature	Ordinary Temperature (5 to 35°C)
Humidity	Ordinary Humidity (25 to 85% RH)

2.2. Measurement method



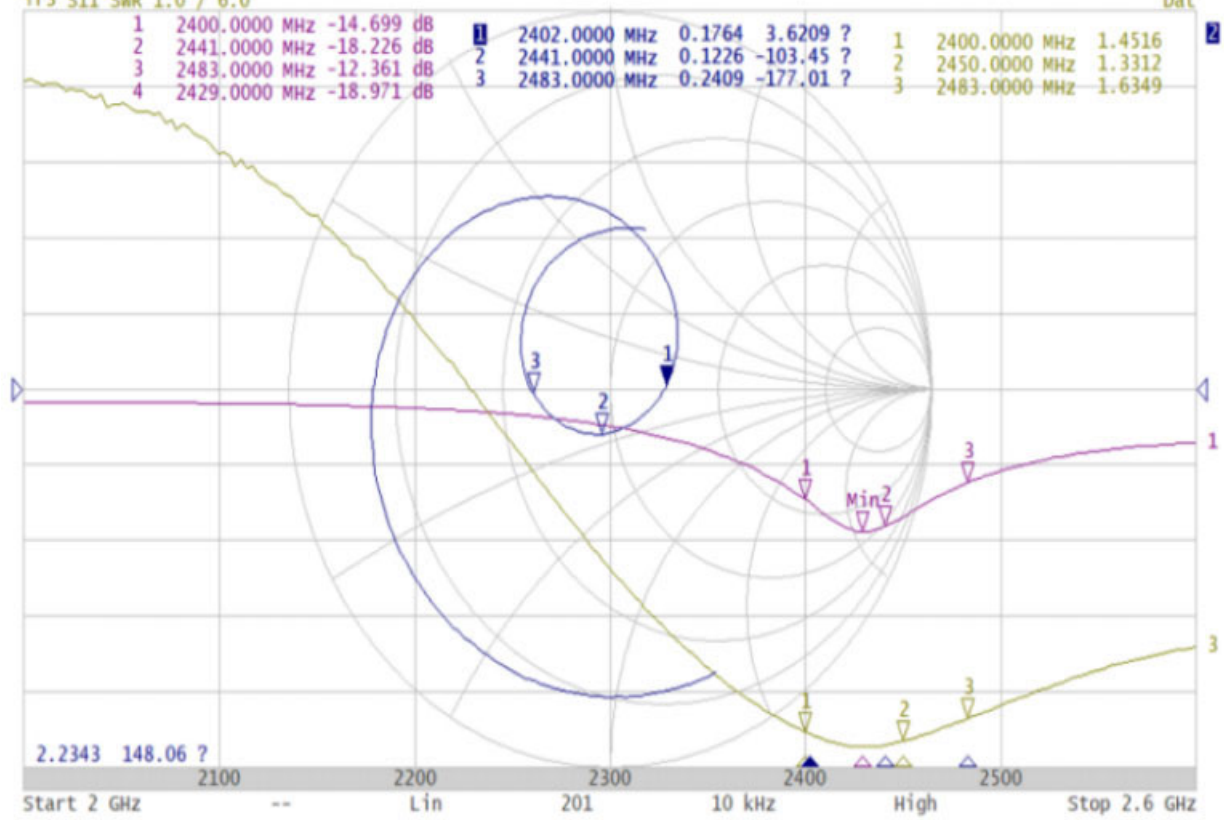
Tr1 S11 Log Magnitude 10.0 dB/ 0.0 dB
 Tr2 S11 Smith (Lin) 1.0
 Tr3 S11 SWR 1.0 / 6.0

Dat
 Dat
 Dat

1	2400.0000 MHz	-14.699 dB
2	2441.0000 MHz	-18.226 dB
3	2483.0000 MHz	-12.361 dB
4	2429.0000 MHz	-18.971 dB

1	2402.0000 MHz	0.1764	3.6209 ?
2	2441.0000 MHz	0.1226	-103.45 ?
3	2483.0000 MHz	0.2409	-177.01 ?

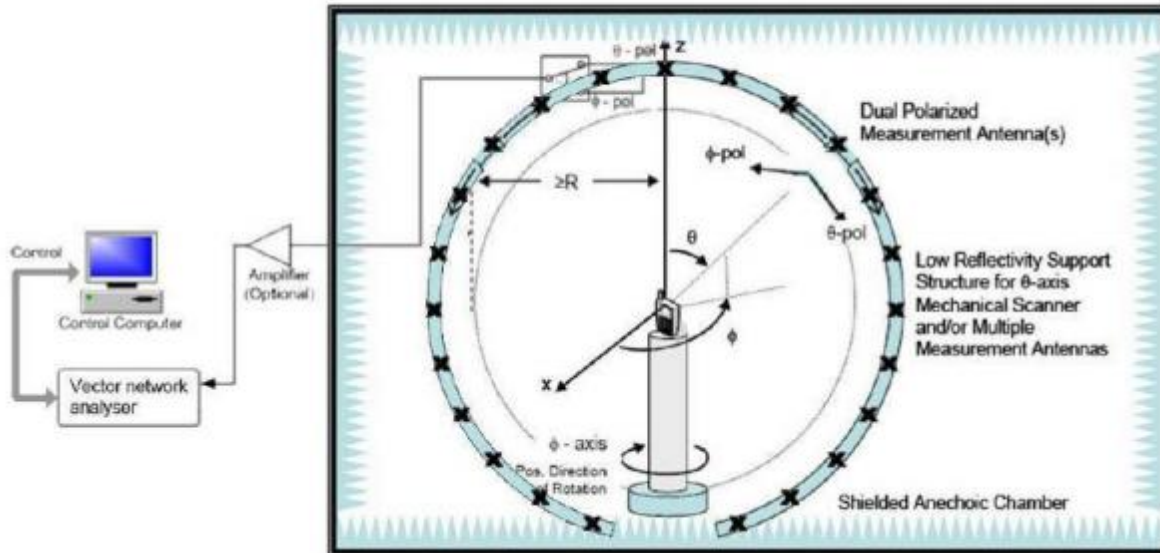
1	2400.0000 MHz	1.4516
2	2450.0000 MHz	1.3312
3	2483.0000 MHz	1.6349



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2.3. Efficiency and Gain

2.3.1. Test system



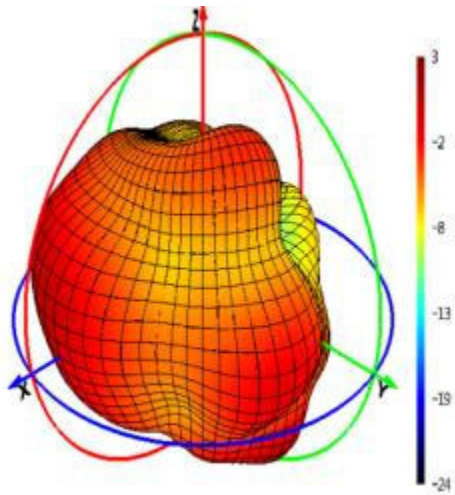
2.3.2. No-source test data

L边-Gain&Efficiency 增益和效率			
ncy 频率	gain 增益(dB)	efficiency 效率(dB)	efficiency 效率
2400	1.01	-4.46	39.13%
2410	1.23	-4.29	40.88%
2420	1.58	-4.17	40.09%
2430	2.09	-3.98	42.90%
2440	2.15	-3.92	43.64%
2450	2.26	-3.81	44.82%
2460	1.77	-4.06	42.05%
2470	1.57	-4.21	40.91%
2480	1.33	-4.32	39.98%
2490	1.28	-4.24	40.35%
2500	1.09	-4.34	39.84%

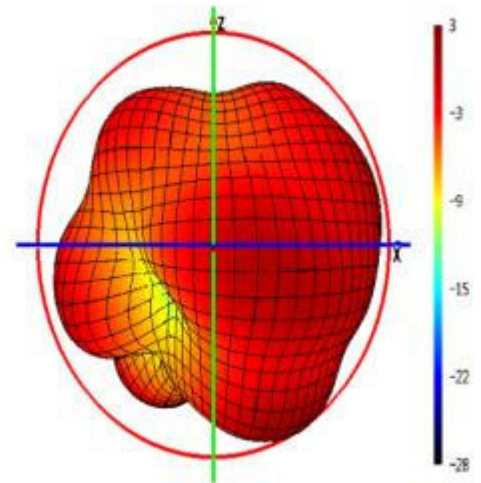
R边-Gain&Efficiency 增益和效率			
频率 (MHz)	gain 增益(dB)	efficiency 效率(dB)	efficiency 效率
2400	2.11	-2.82	46.24%
2410	1.76	-3.01	47.06%
2420	2.52	-2.65	50.31%
2430	2.6	-2.74	49.22%
2440	2.07	-2.81	49.41%
2450	2.62	-2.68	50%
2460	2.65	-2.8	48.46%
2470	2.38	-2.77	48.86%
2480	2.82	-2.63	47.54%
2490	2.25	-3.15	44.41%
2500	2.4	-2.95	44.74%

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2.3.3. 3D Radiation Drawing



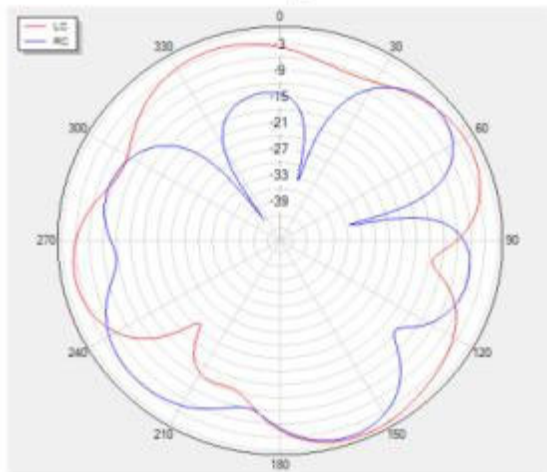
L antenna



R antenna

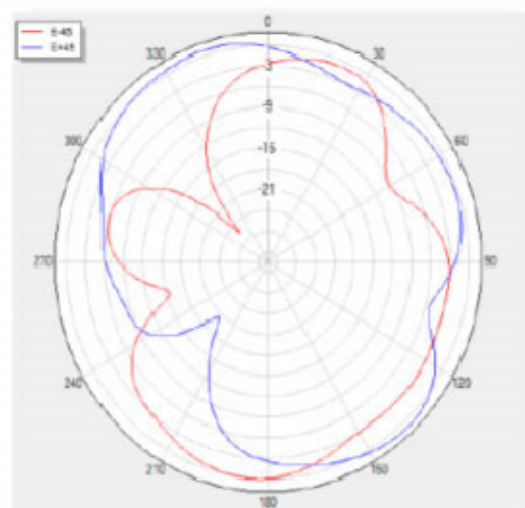
2.3.4. directional drawing of horizontal plane

Theta=90 freq=2400MHz



L

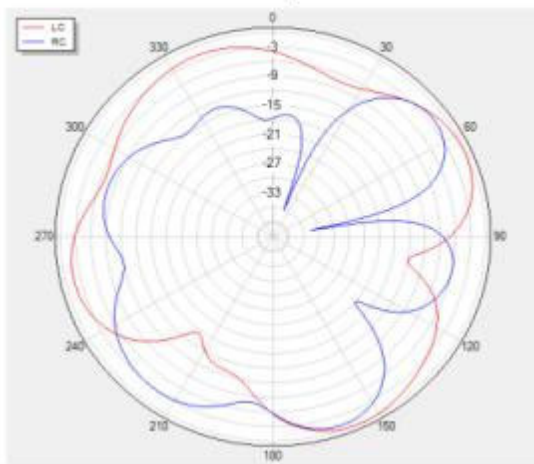
H Theta=90 freq=2400MHz



R

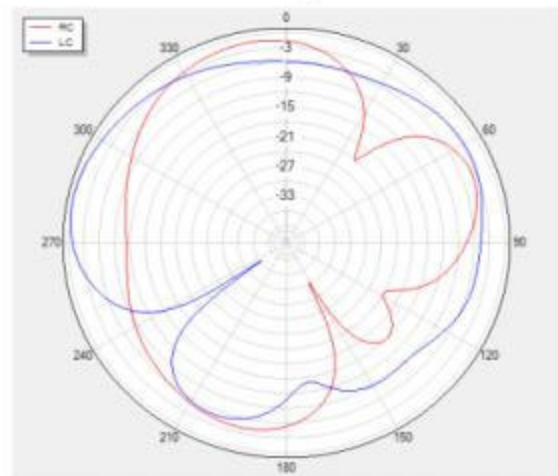
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Theta=90 freq=2450MHz



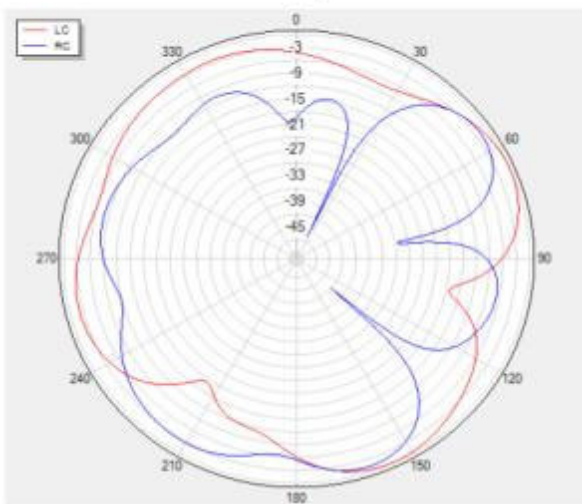
L

Theta=90 freq=2450MHz



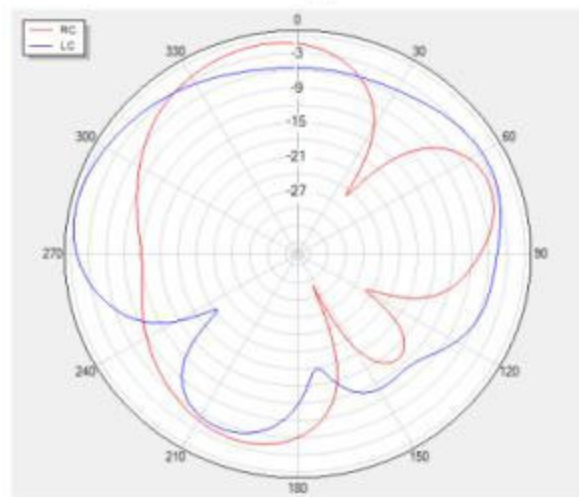
R

Theta=90 freq=2480MHz



L

Theta=90 freq=2480MHz



R