

承認書

APPROVAL SHEET

客戶名稱: CUSTOMER NAME:	
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物料編號:

PARTNO:

產品品名:

TYPE NAME:

WIFI-I 天线

客戶料號:

CUSTOM P/N:

規格:

SPECIFICATON:

IPEX1.13 线 200mm/75*9mm²

1. 新品承認 (Newly Approved) ☒
2. 材料變更再承認 (Material Approved) ☐
3. 規格變更再承認 (SPEC Approved) ☐

製造廠商/供應廠商承認欄			客戶承認欄		
承認章: (APPROVAL BY):			承認章: (APPROVAL BY):		
承認日期: (APPROVAL DATE): 2024 年 月 日			承認日期: (APPROVAL DATE): 2024 年 月 日		
供應商 (SUPPLIER)			客戶 (CUSTOMER)		
品質 Q. Dept	工程 E. Dept	業務 S. Dept	經辦 TESTED	審核 CHECKED	核准 APPROVED
吴仕娟	王世海	陈荣茂			
日期 (DATE): 2024 年 月 日			日期 (DATE): 2024 年 月 日		

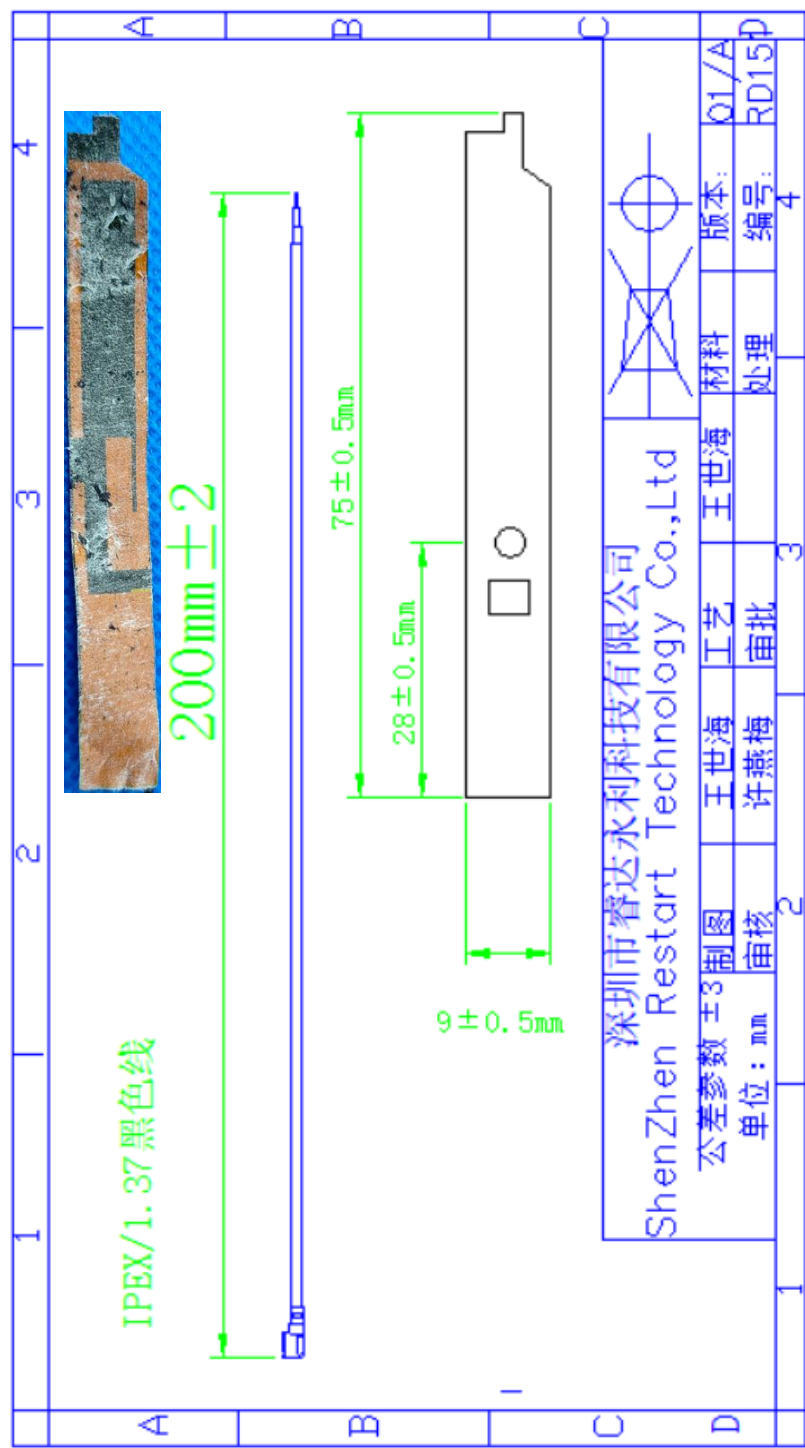
Company Name: Shenzhen RIDA Yongli Technology Co., Ltd.

Address: Building 3, Floor 3, Factory, No. 5, Nan Tong Avenue, Tongle Community, Baolong Street, Longgang District, Shenzhen (15, Jinlong Second Road)

Electrical performance technical parameters

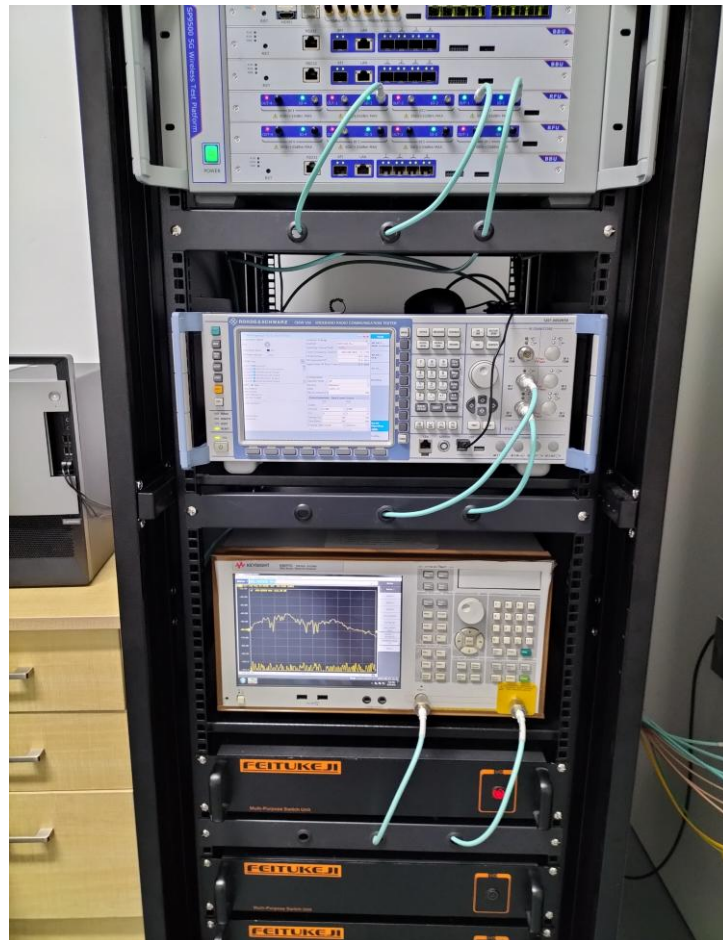
Model 型号	WIFI-I 天线
Frequency Range 频率范围-MHz	2400~2500MHz/5150~5850MHz
MAX Gain 增益-dB	4.13dBi
VSWR 电压驻波比	≤2.0
Input impedance 输入阻抗-Ω	50 Ω
Polarization 极化方式	Vertical 垂直极化
Connector Type 连接器型号	一代 IPEX
Length 长度 (mm)	IPEX200mm/75*9mm
Weight 重量-g	1g
Installation 安装方式	IPEX 扣紧
环境 Environmental	1.工作温度 Working Temp -40℃~+85℃ 2.湿度 Humidity Humidity 95%~100%R

1. 结构图 Structure Picture



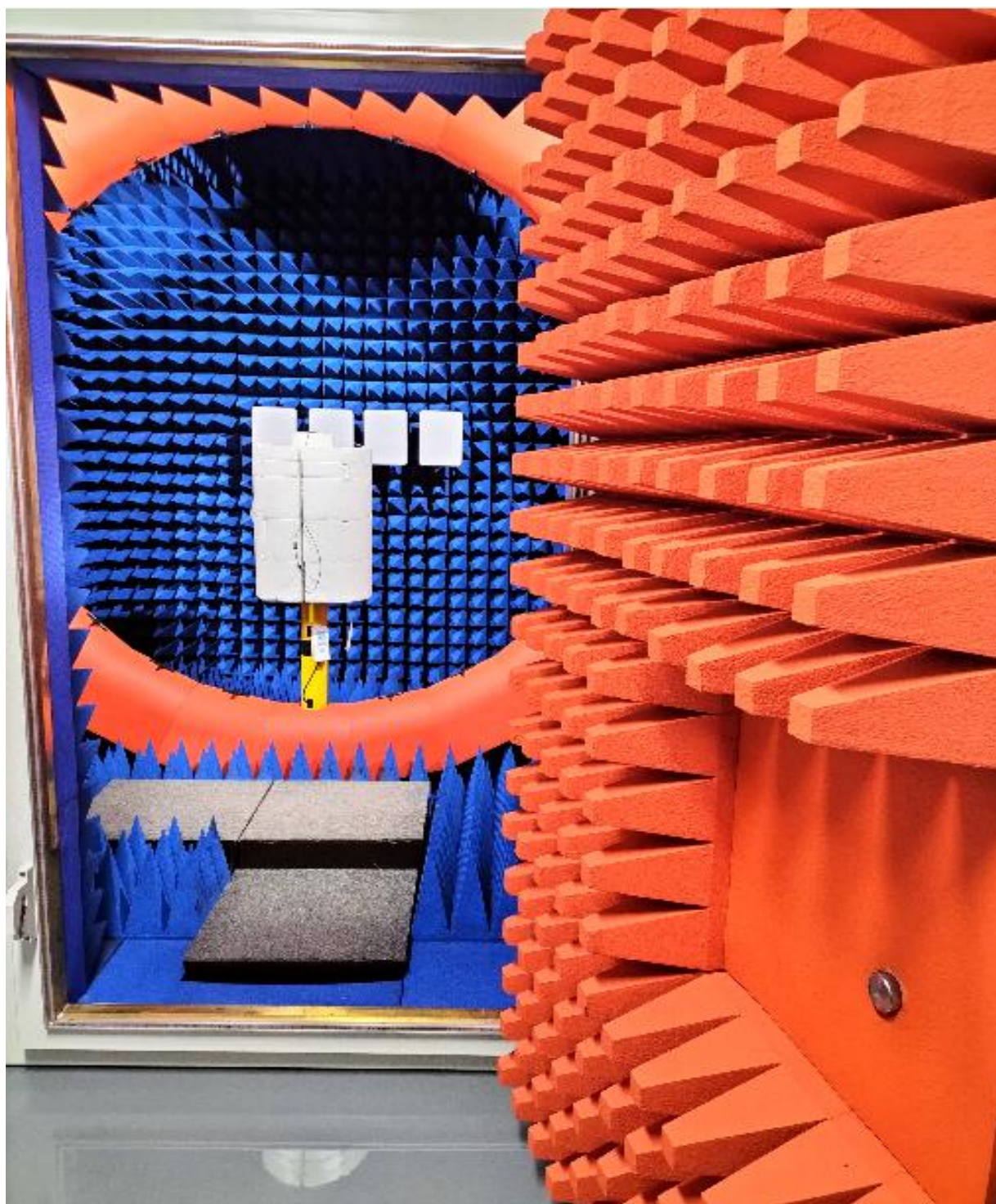


2. Testing equipment and darkroom



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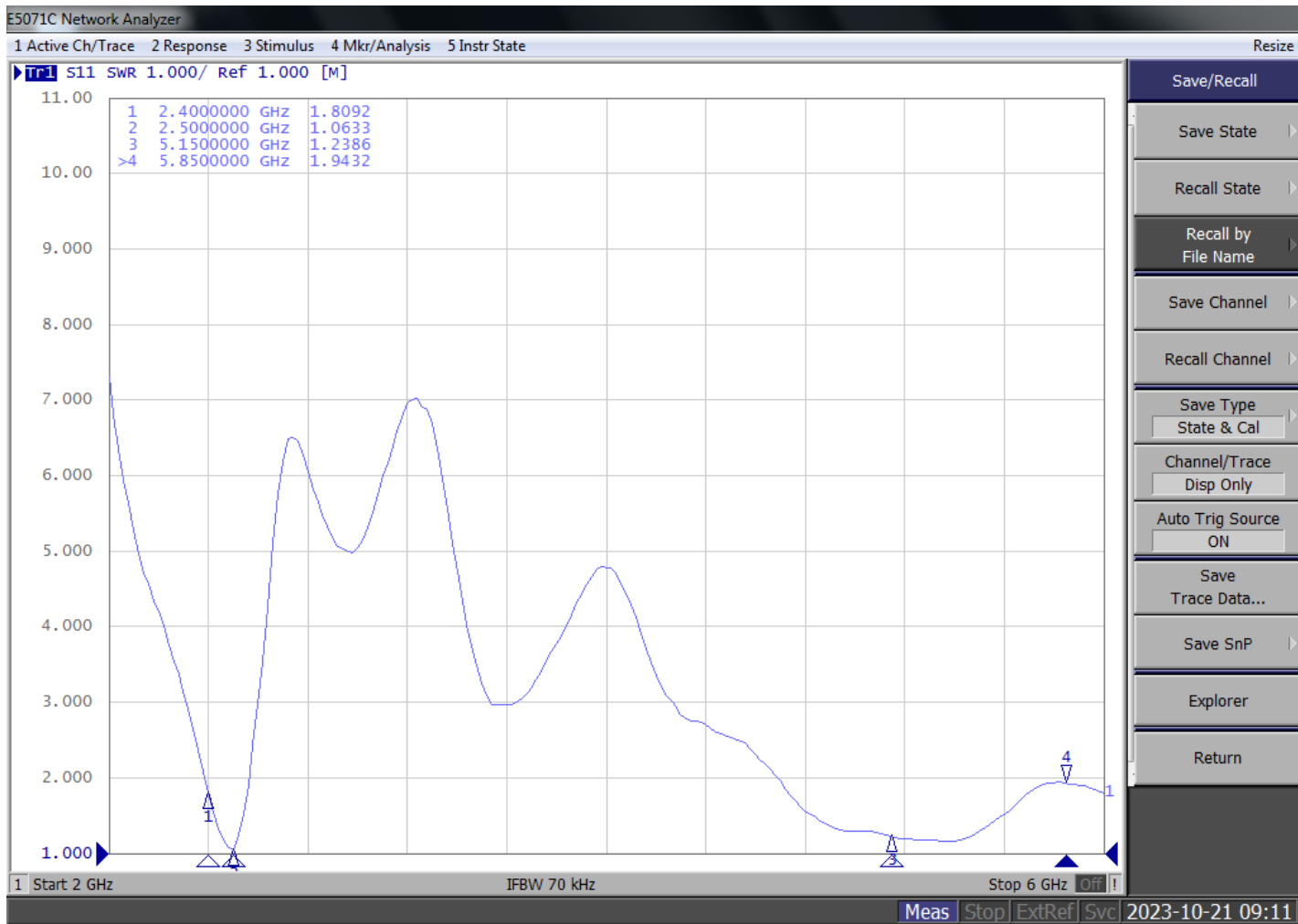


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3. Test data

3-1 S11 Standing wave ratio



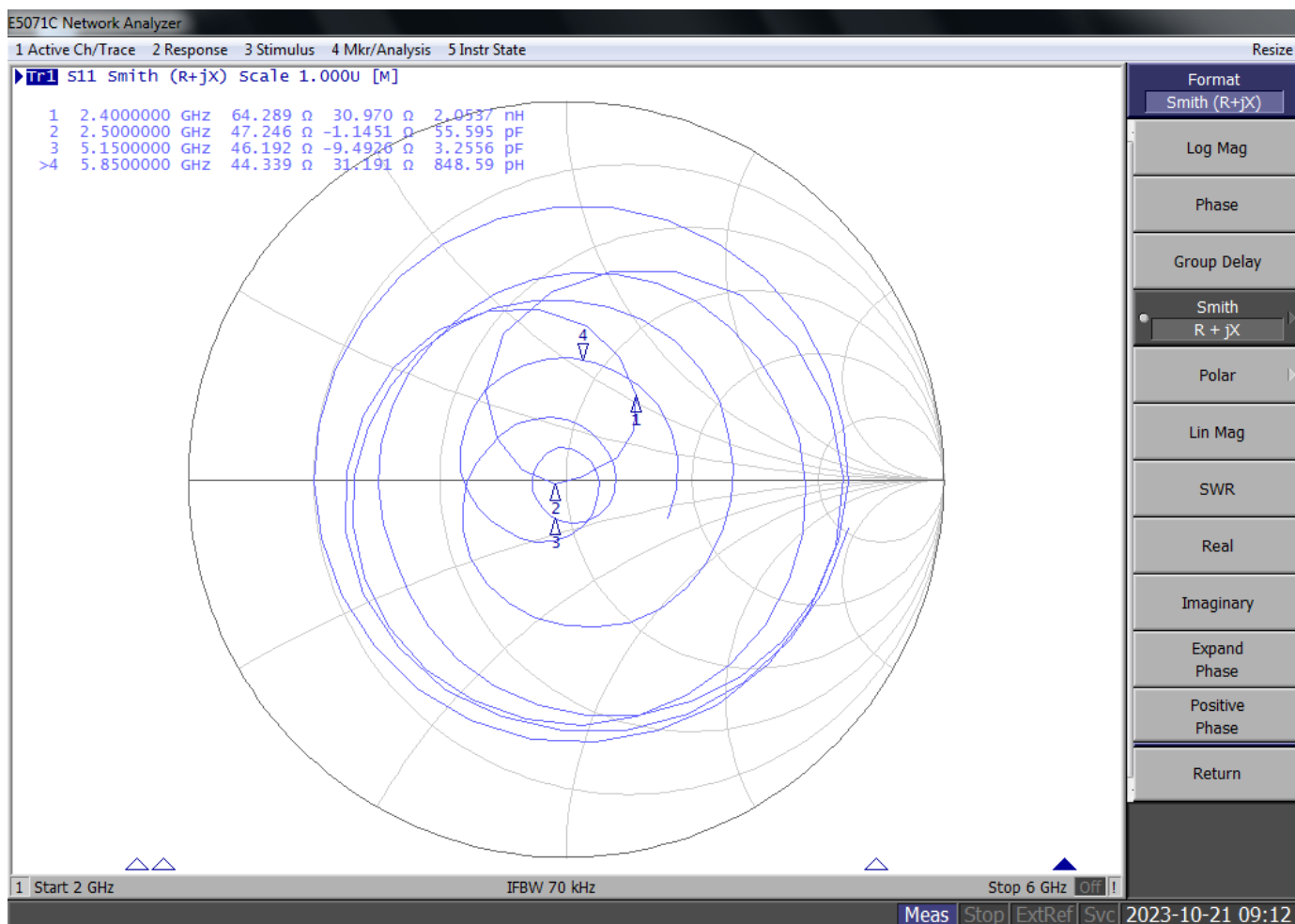
VSWR

Frequency(MHz)	2400	2500	5150	5850
VSWR	1.8	1.0	1.2	1.9

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3-2 S11 史密斯阻抗



Smith(R+jx)

Frequency(MHz)	2400	2500	5150	5850
Smith(R+jx)	64 Ω	47 Ω	46 Ω	44 Ω

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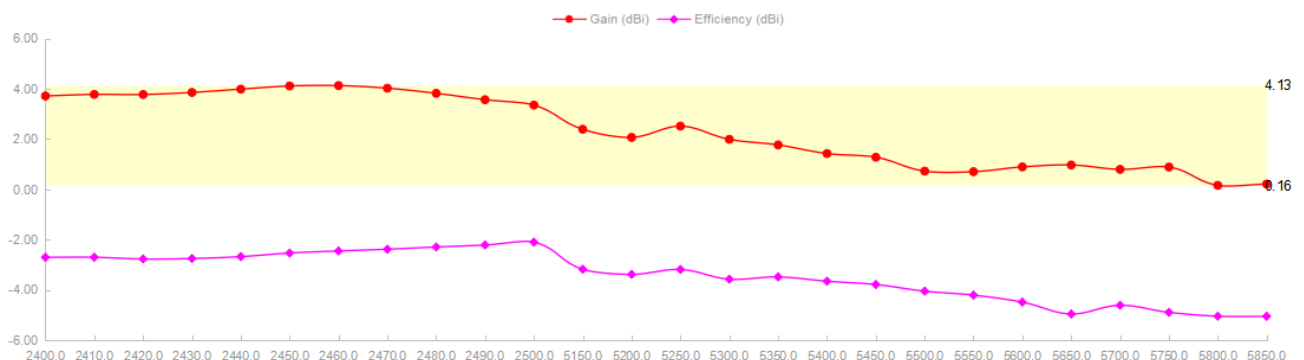
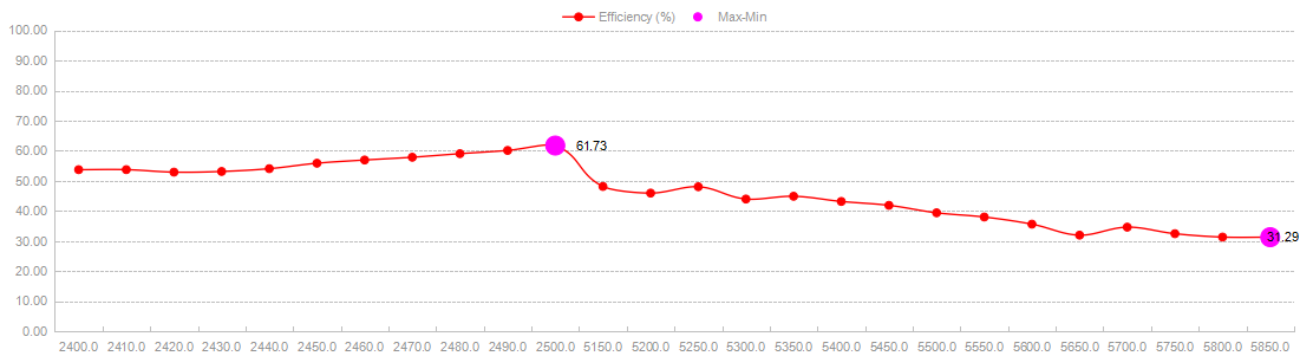
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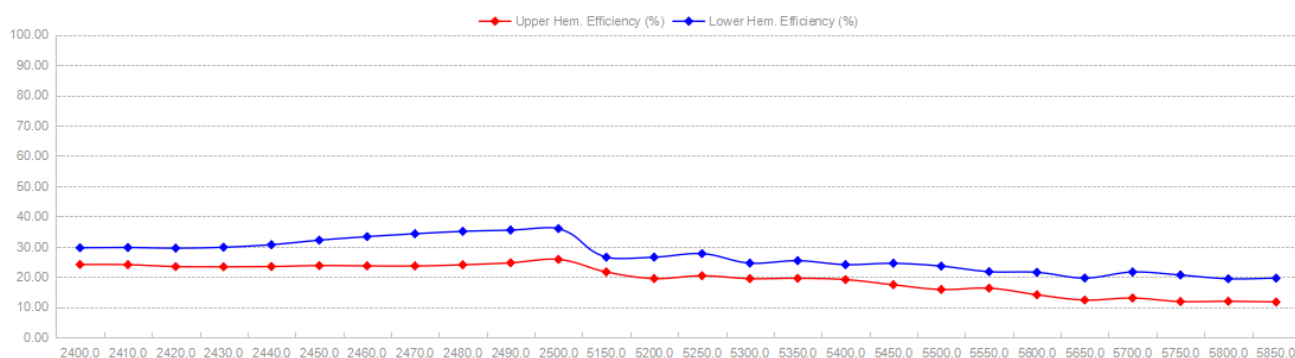
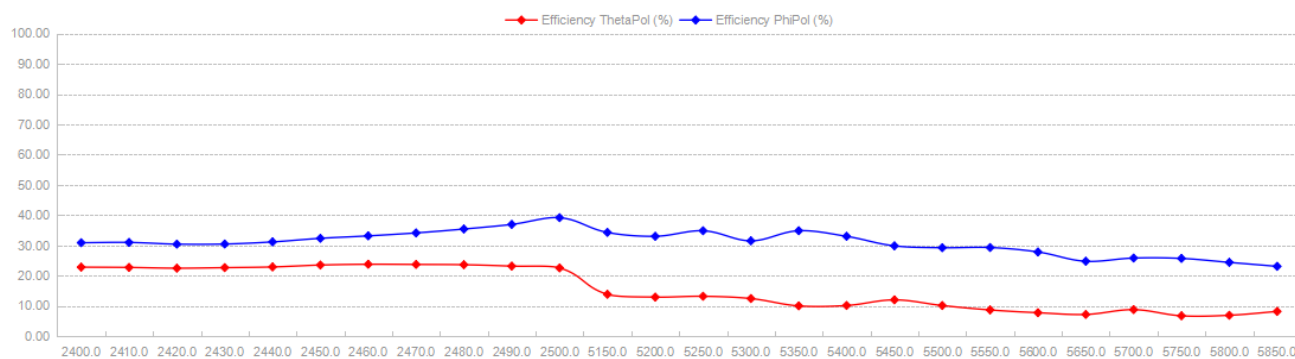


3-3 2.4G WIFI 无源测试

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.70	-2.70	-2.77	-2.75	-2.67	-2.53	-2.45	-2.38	-2.29	-2.21	-2.09
Gain (dBi)	3.72	3.78	3.77	3.86	3.99	4.11	4.13	4.03	3.82	3.57	3.35
Efficiency (%)	53.72	53.73	52.90	53.13	54.06	55.87	56.93	57.85	59.04	60.12	61.73
Directivity (dB)	6.42	6.48	6.54	6.60	6.66	6.64	6.58	6.40	6.11	5.78	5.45
Peak Gain Position (Theta)	125.00	124.00	124.00	123.00	123.00	121.00	121.00	120.00	119.00	117.00	115.00
Peak Gain Position (Phi)	104.00	104.00	104.00	104.00	104.00	106.00	106.00	108.00	109.00	112.00	115.00
Efficiency ThetaPol (%)	22.82	22.74	22.48	22.67	22.89	23.52	23.78	23.72	23.63	23.17	22.57
Efficiency PhiPol (%)	30.90	31.00	30.42	30.46	31.16	32.35	33.15	34.13	35.42	36.94	39.17
Upper Hem. Efficiency (%)	24.10	24.03	23.41	23.34	23.42	23.74	23.63	23.61	24.00	24.66	25.78
Lower Hem. Efficiency (%)	29.62	29.70	29.49	29.79	30.64	32.13	33.30	34.25	35.05	35.45	35.96

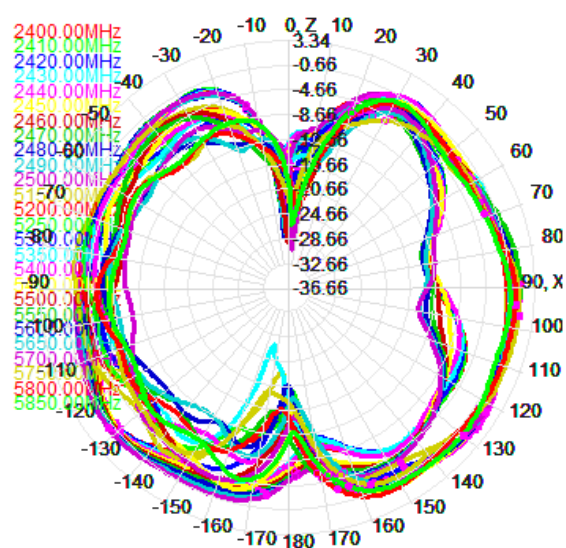
Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-3.17	-3.38	-3.18	-3.57	-3.48	-3.65	-3.78	-4.05	-4.20	-4.48	-4.95	-4.61	-4.89	-5.04	-5.05
Gain (dBi)	2.39	2.07	2.52	1.99	1.77	1.43	1.28	0.73	0.71	0.90	0.97	0.80	0.89	0.16	0.22
Efficiency (%)	48.15	45.95	48.06	43.97	44.89	43.17	41.88	39.39	38.00	35.63	31.97	34.63	32.46	31.33	31.29
Directivity (dB)	5.57	5.45	5.70	5.56	5.25	5.08	5.06	4.77	4.91	5.38	5.93	5.40	5.78	5.20	5.26
Peak Gain Position (Theta)	96.00	101.00	103.00	107.00	106.00	127.00	124.00	123.00	89.00	128.00	124.00	122.00	113.00	151.00	127.00
Peak Gain Position (Phi)	100.00	100.00	100.00	99.00	99.00	7.00	11.00	5.00	0.00	5.00	5.00	3.00	5.00	353.00	353.00
Efficiency ThetaPol (%)	13.85	12.93	13.21	12.45	10.03	10.16	12.02	10.15	8.69	7.78	7.21	8.80	6.76	6.93	8.20
Efficiency PhiPol (%)	34.30	33.02	34.85	31.51	34.86	33.00	29.86	29.24	29.31	27.85	24.77	25.83	25.71	24.40	23.09
Upper Hem. Efficiency (%)	21.64	19.44	20.37	19.42	19.54	19.11	17.39	15.83	16.27	14.11	12.36	13.01	11.85	11.95	11.71
Lower Hem. Efficiency (%)	26.51	26.51	27.69	24.55	25.35	24.06	24.49	23.56	21.73	21.52	19.61	21.62	20.61	19.38	19.59





3-3 2D Pattern

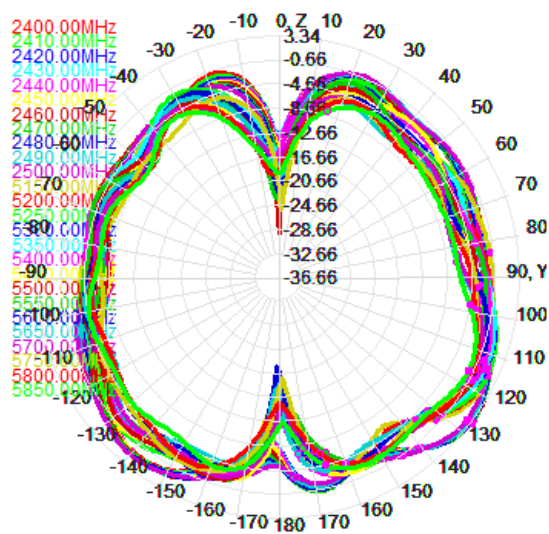
Total(E1-XZ)



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Total(E2-YZ)



Total(H-XY)

