

Antenna Specifications

Shenzhen Emerycomm Technology CO., Ltd

深圳市铱讯科技有限公司

样品承认书

客户名称	Customer Name	:	昊一源
客户料号	Customer P/N	:	3002012490 / 3002012491
客户项目名称	Customer Item Name	:	i5805
铱讯料号	EM P/N	:	10100100011 / 10100100012
铱讯项目名称	EM Item Name	:	EM195
规格描述	Project Spec	:	LDS 天线
版 本	REV	:	V1
日 期	Date	:	2026-03-12

设计 Drawing	Lucy	签字日期 Signature Date	2026-03-12
审核 Check	Kade / Steven	签字日期 Signature Date	2026-03-12
批准 Approved	KC	签字日期 Signature Date	2026-03-12
客户确认 Customer Approve		签字日期 Signature Date	

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1 规格 Specifications

1.1 产品图片 Product Images

此天线主要的结构方式为 LDS，它们被用于便捷无线通信设备，该天线适用于 1880 - 1930MHz 频段。

This antenna primarily adopts the LDS (Laser-Direct-structuring) , designed for portable wireless communication devices and compatible with the 1880-1930MHz frequency band.



1.2 产品料号 Product Part Number

昊一源料号 (HOLLYLAND Product Part Number)	:	3002012490
铱讯料号 (EM Product Part Number)	:	10100100011
昊一源料号 (HOLLYLAND Product Part Number)	:	3002012491
铱讯料号 (EM Product Part Number)	:	10100100012

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2 电器性能 Electrical Performance

2.1 指标与匹配 Indicators and Matching

电气性能指标		Electrical performance indicators	
频率范围	1880-1930MHz	Frequency Range	1880-1930MHz
电压驻波比	≤ 2.0	VSWR	≤ 2.0
增益	≤ -0.3 dBi	Gain	≤ -0.3 dBi
辐射方向	全向	Radiation Direction	Omnidirectional
极化方式	线极化	Polarization	Linear Polarization
输入阻抗	50 Ω	Input Impedance	50 Ω
机械性能指标		Mechanical performance indicators	
接口形式	顶针式	Interface Form	Pin-tipped
天线工艺	LDS	Antenna Process	LDS
工作温度	-30 $^{\circ}$ C ~ +80 $^{\circ}$ C	Working Temperature	-30 $^{\circ}$ C~+80 $^{\circ}$ C
工作湿度	40 ~ 85%	Working Humidity	40~85%

匹配 Matching:

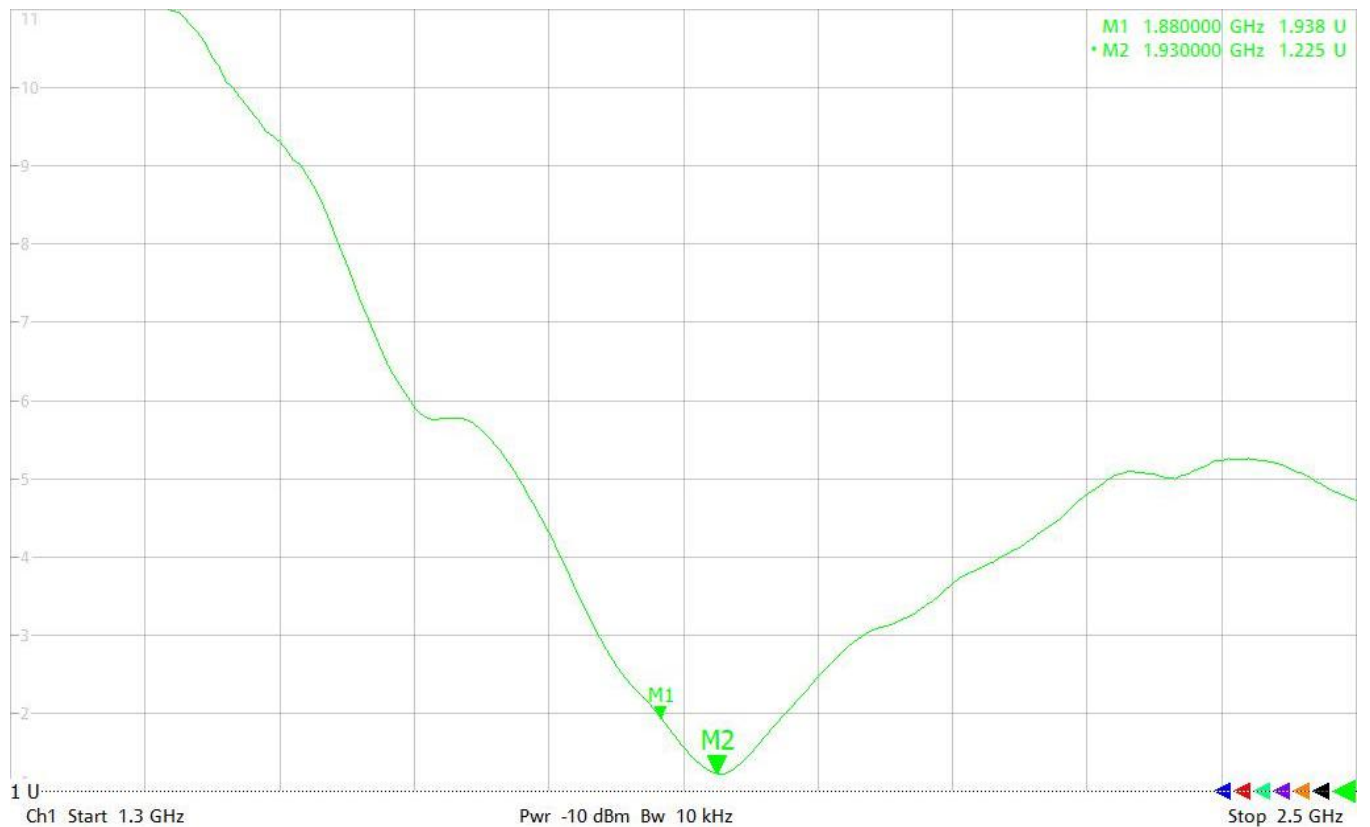
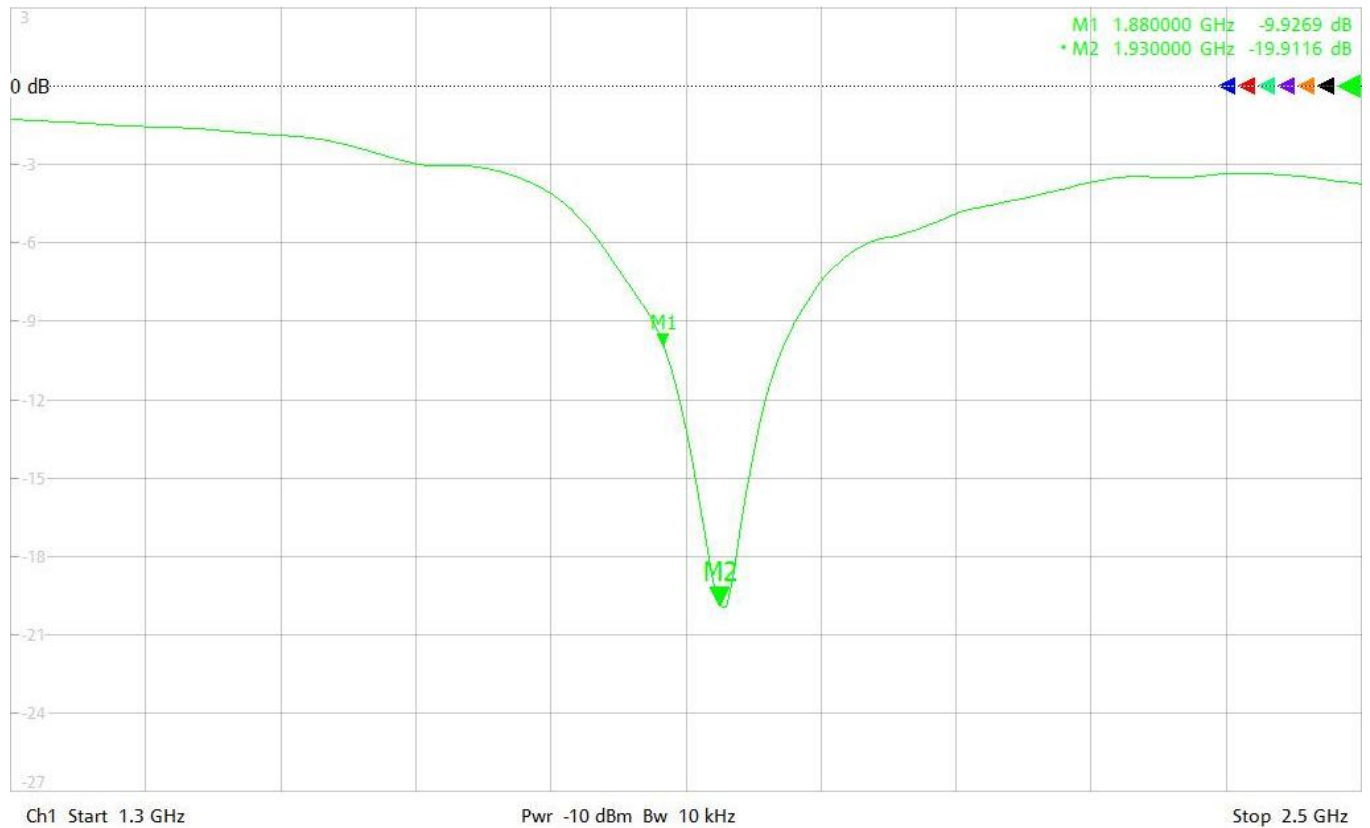
	E1	E2	E3
主板仓 Main board Warehouse	NULL	0 Ω	NULL
电池仓 Battery compartment	NULL	0 Ω	NULL

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2.2 回波损耗与驻波 Return Loss and VSWR

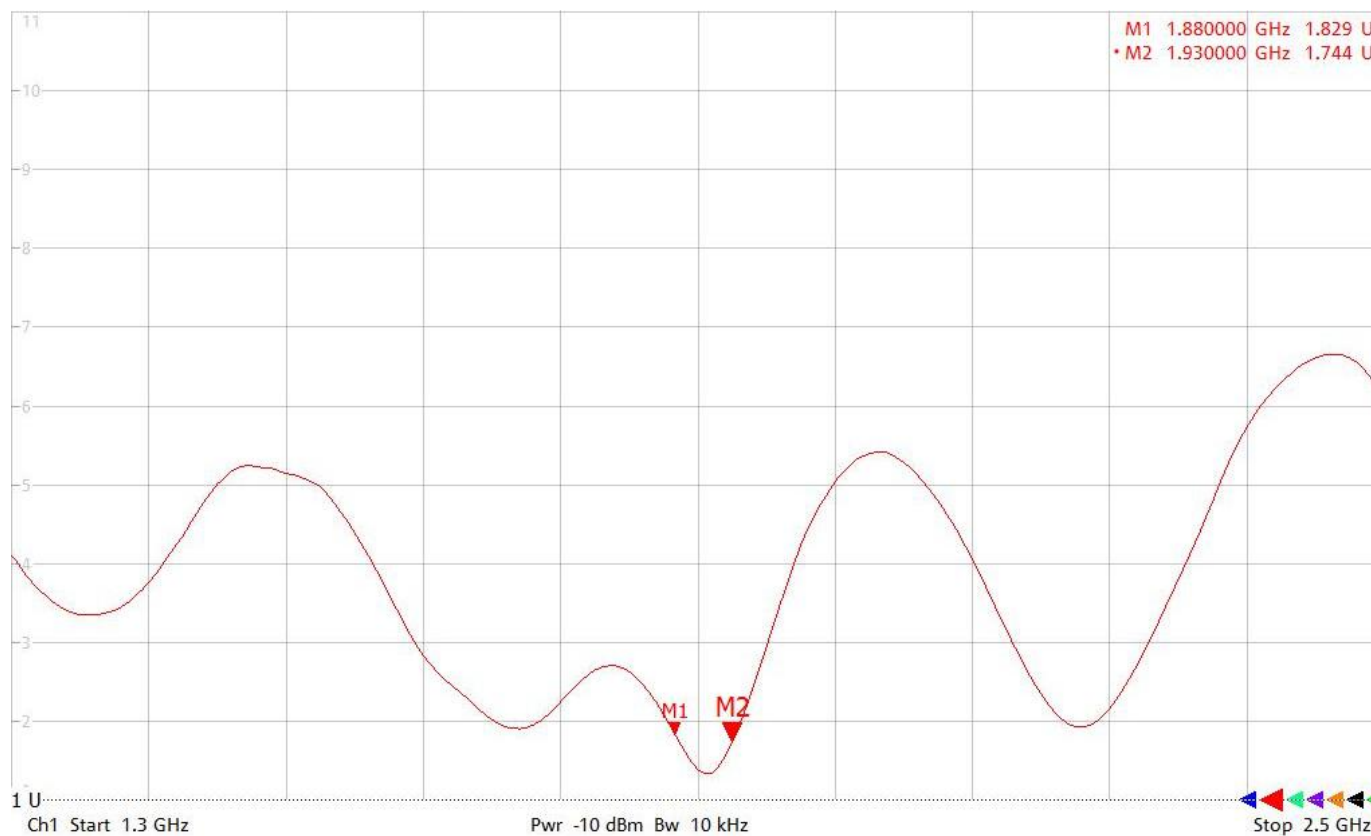
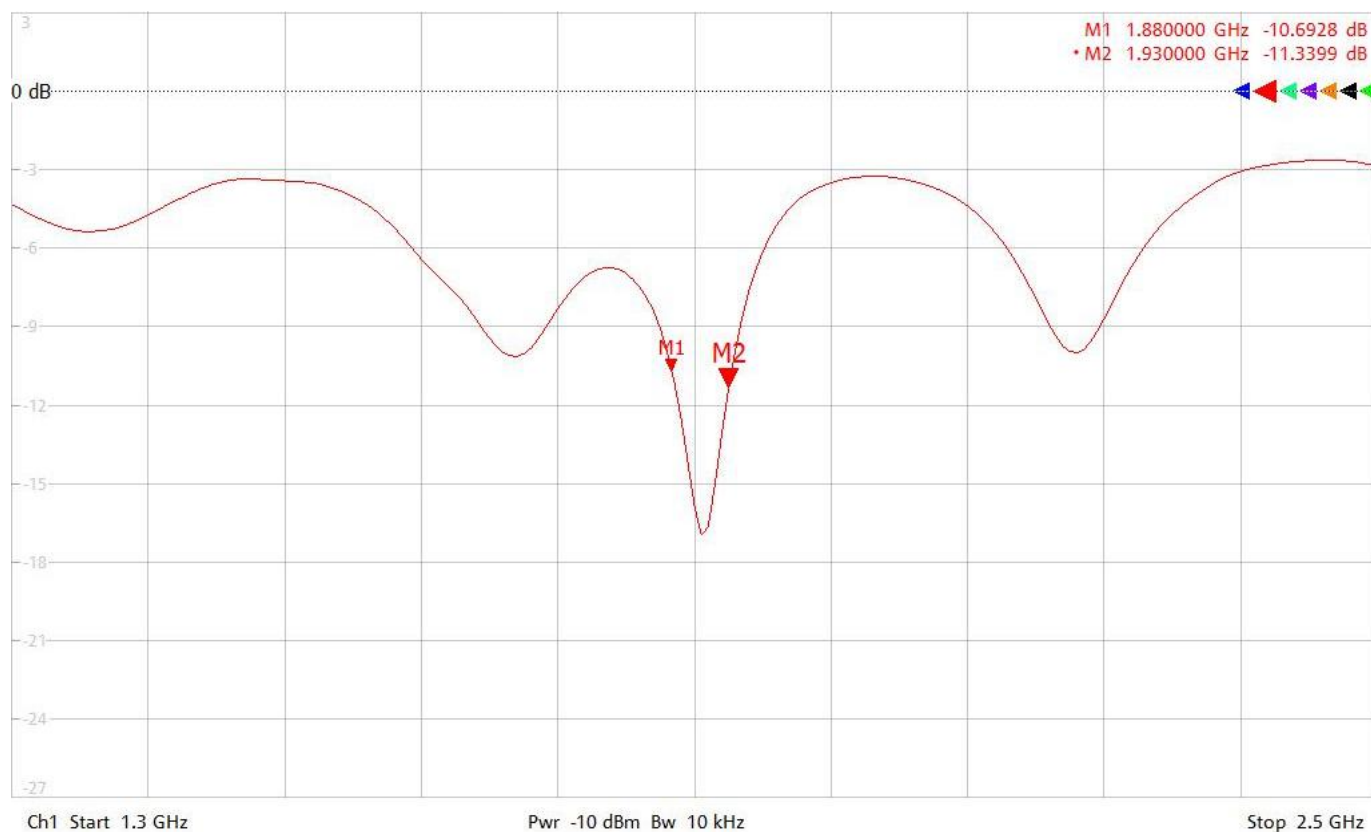
L (左-主板仓)



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R (右-电池仓)



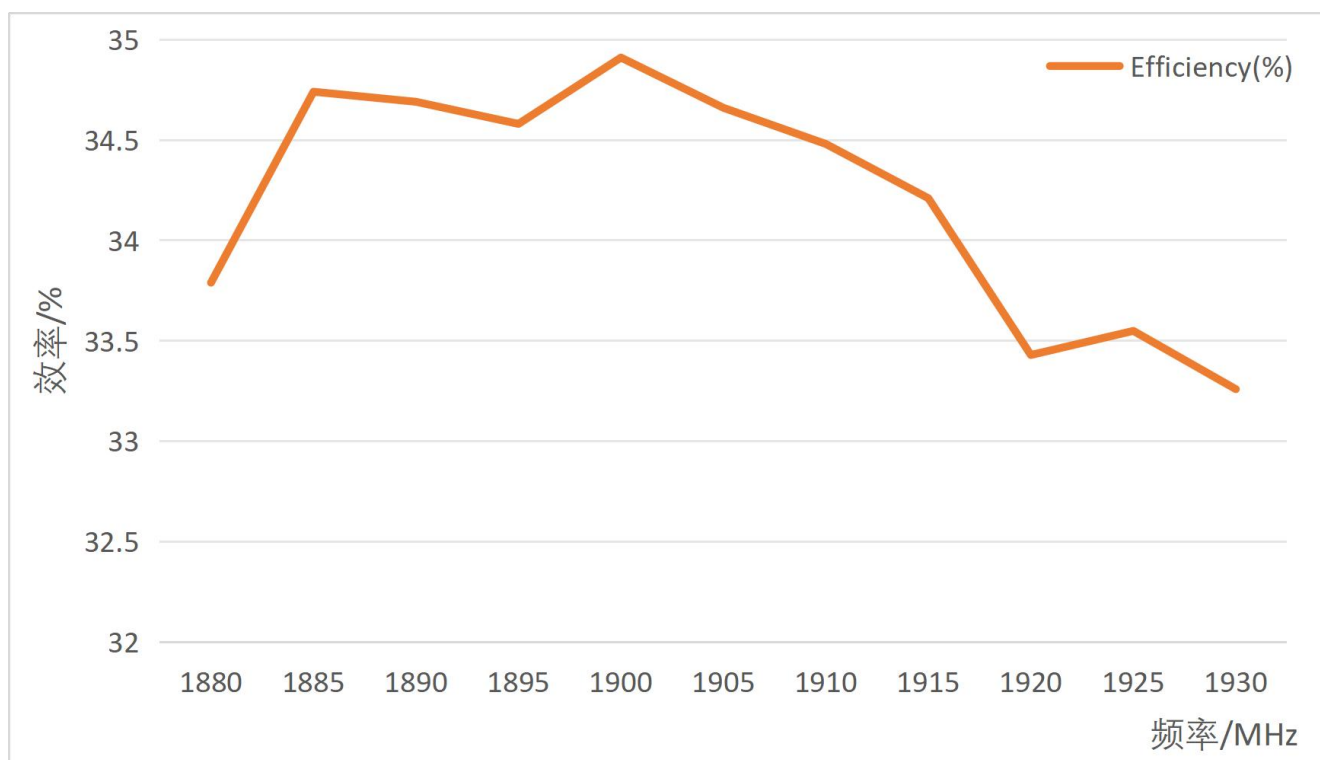
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2.3 无源效率(自由空间) Passive Efficiency (Free Space)

L (左-主板仓)

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1880	-0.55	-4.71	33.79
1885	-0.41	-4.59	34.74
1890	-0.49	-4.6	34.69
1895	-0.43	-4.61	34.58
1900	-0.39	-4.57	34.91
1905	-0.42	-4.6	34.66
1910	-0.4	-4.62	34.48
1915	-0.45	-4.66	34.21
1920	-0.5	-4.76	33.43
1925	-0.47	-4.74	33.55
1930	-0.5	-4.78	33.26

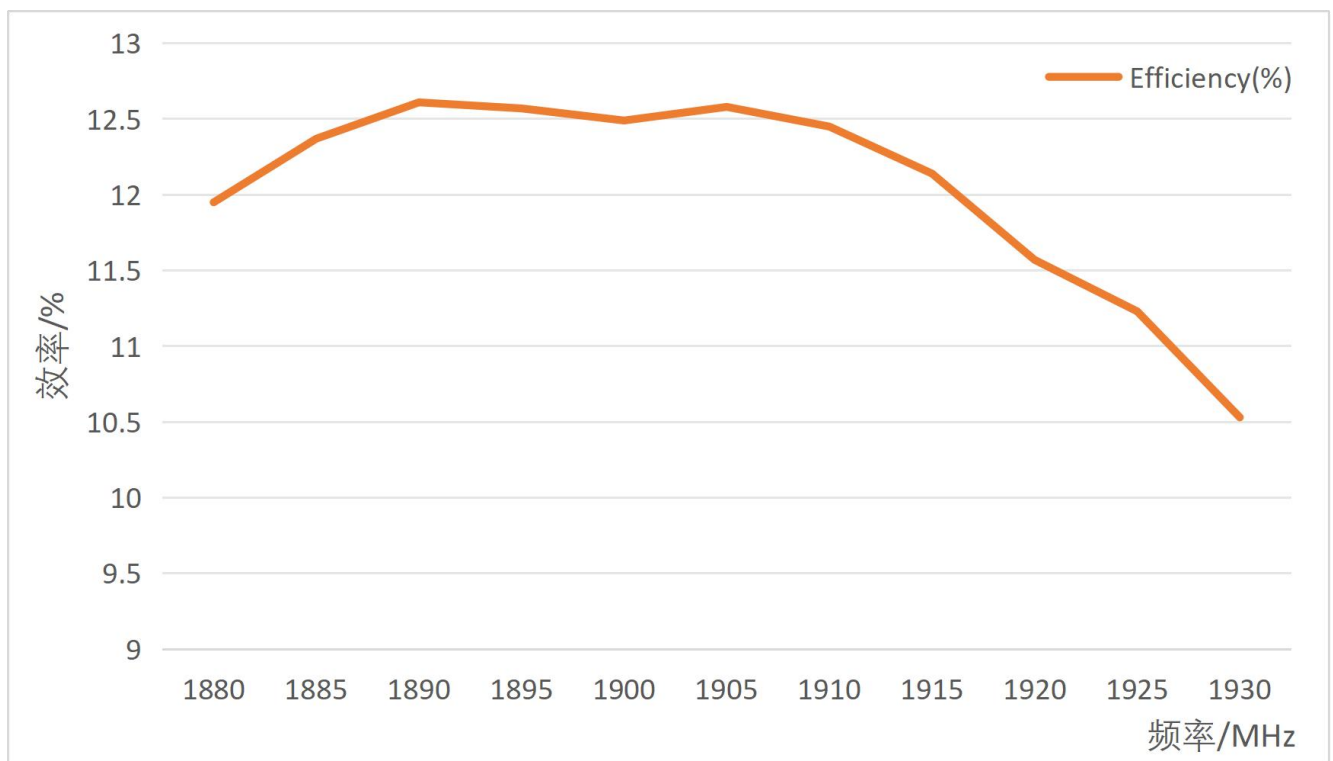


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R (右-电池仓)

Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1880	-3.72	-9.23	11.95
1885	-3.48	-9.08	12.37
1890	-3.4	-8.99	12.61
1895	-3.46	-9.01	12.57
1900	-3.5	-9.03	12.49
1905	-3.52	-9	12.58
1910	-3.67	-9.05	12.45
1915	-3.73	-9.16	12.14
1920	-3.89	-9.37	11.57
1925	-4.02	-9.5	11.23
1930	-4.33	-9.77	10.53



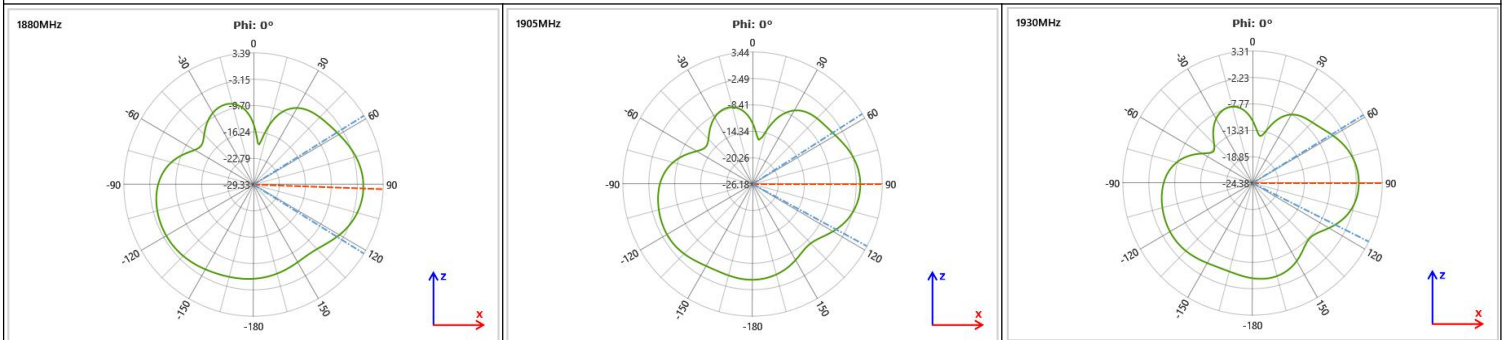
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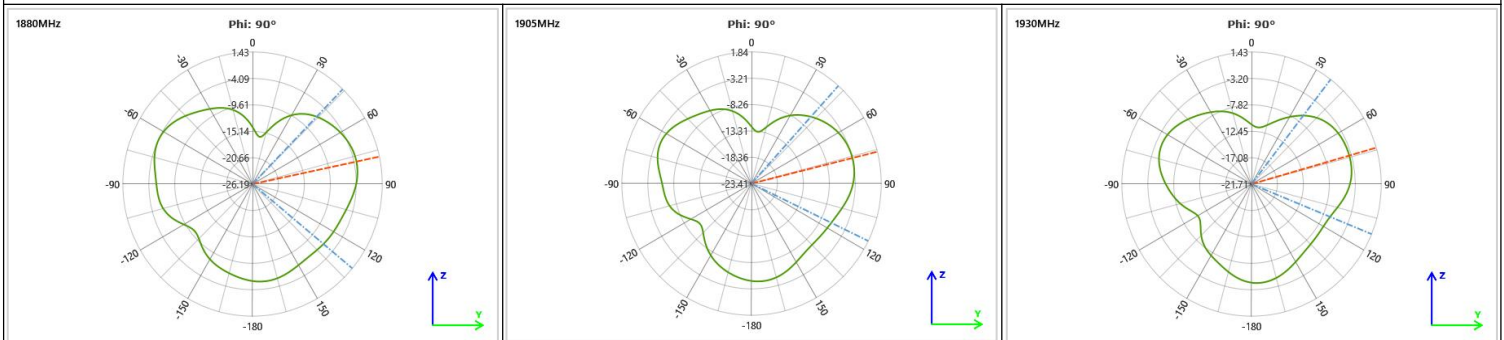
2.4 2D/3D 方向图 2D/3D Directional Pattern

L (左-主板仓)

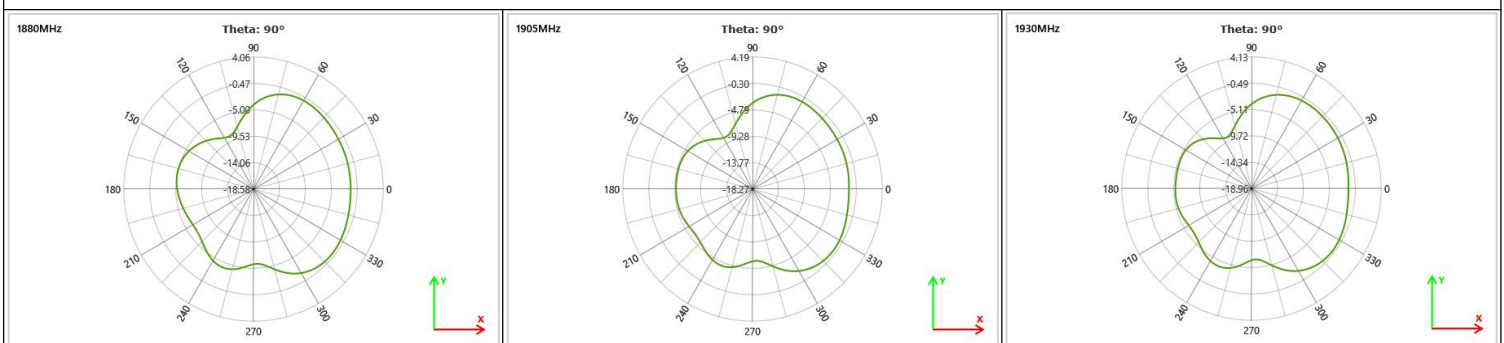
2d(phi 0°)



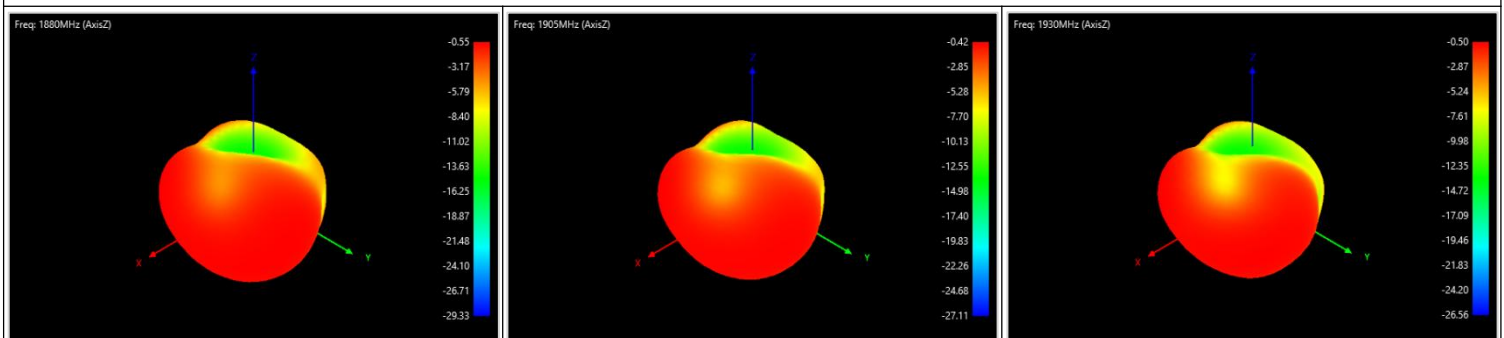
2d(phi 90°)



2d(theta 90°)



3d

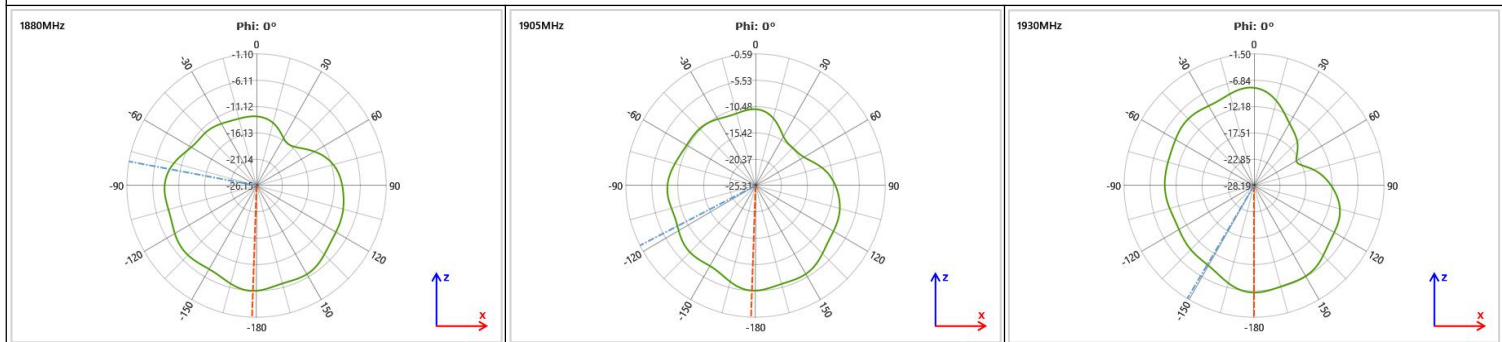


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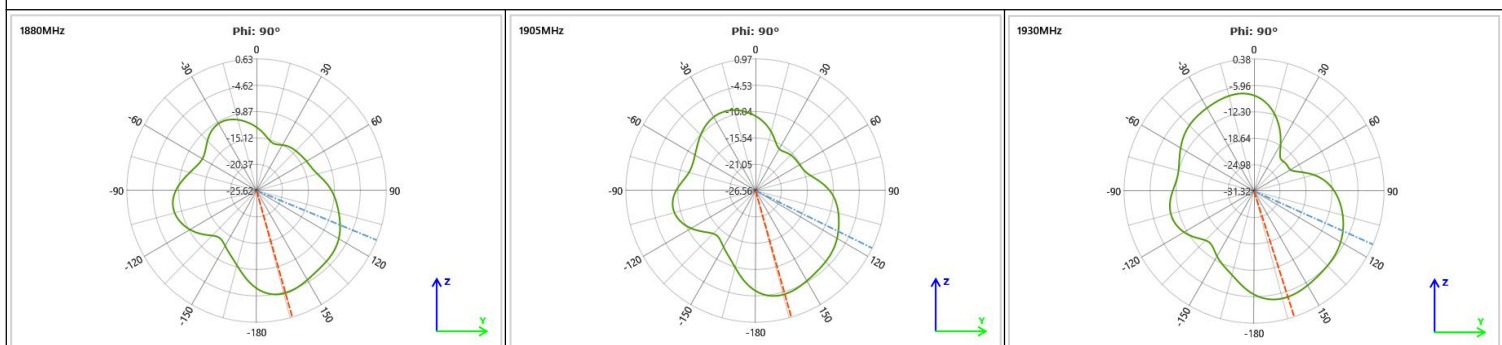
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R (右-电池仓)

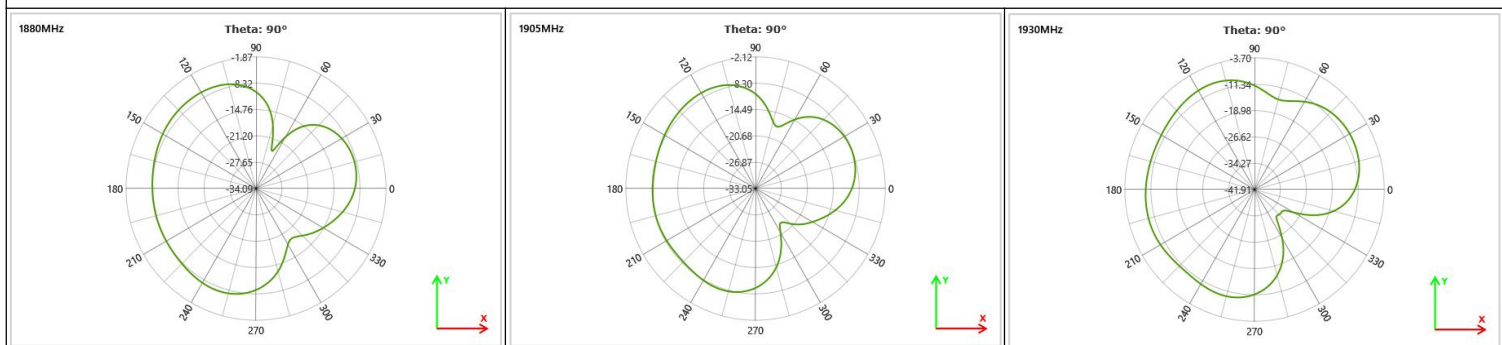
2d(phi 0°)



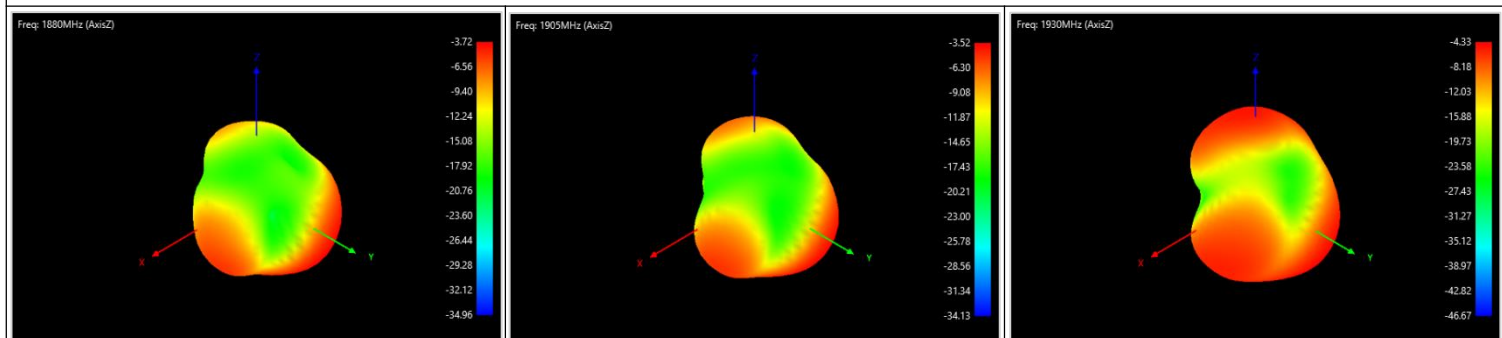
2d(phi 90°)



2d(theta 90°)



3d



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3 结构性能 Structural Properties

3.1 结构尺寸 Structural dimensions

