

1. Antenna Specification/天线标准

Antenna Specification/天线技术参数

Electrical Specification/电气特性

Item/目录	Specification/规格	Comment /备注
Freq. Range/频段范围	2400MHz-2525MHz	
Impedance/阻抗	50 (Ω)	
Directional/辐射方向	Omni Directional	
Polarization/极化形式	Vertical	
VSWR/驻波比	≤ 2	
Peak Gain/峰值增益	2.54dBi	
Total Efficiency/无源效率	$> 52\%$	
Test condition/测试条件	passive test (无源测试)	
Power/功率	1W	

Mechanical Specification/机械指标

Antenna type/天线类型	FPC 天线	
Connector Type/连接器类型	USS RF I	
RF Cable Type/射频线型号	1.13 BK	
Connector torque test/连接器扭力	N/A	
Connector pull test/连接器拉力	10N MIN	
Salt Spray/盐雾测试	48(H)	

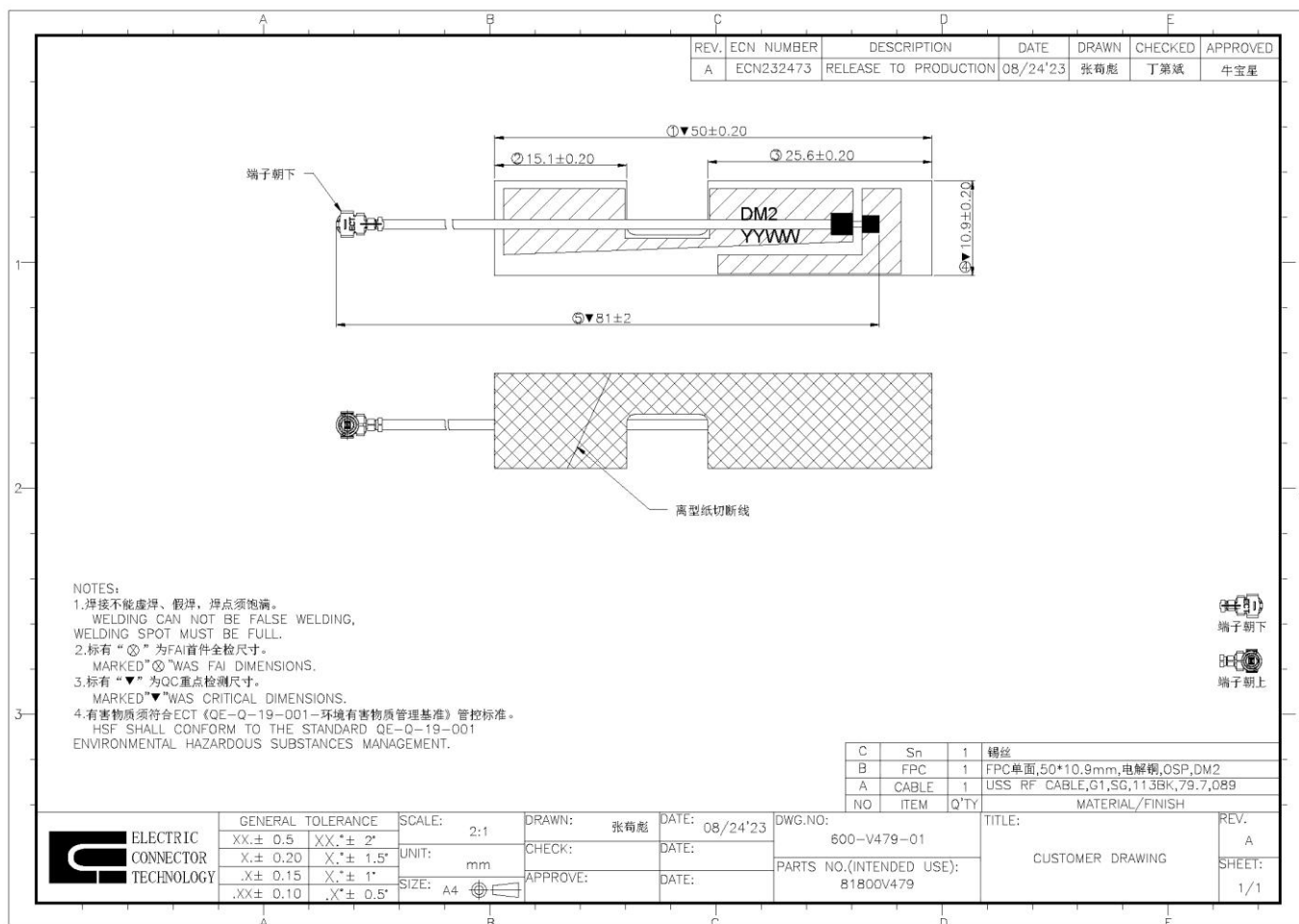
Environmental Specification /环境指标

Operating temp/工作温度	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$	
Storage temp/存储温度	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	

2. Antenna Picture/天线图片

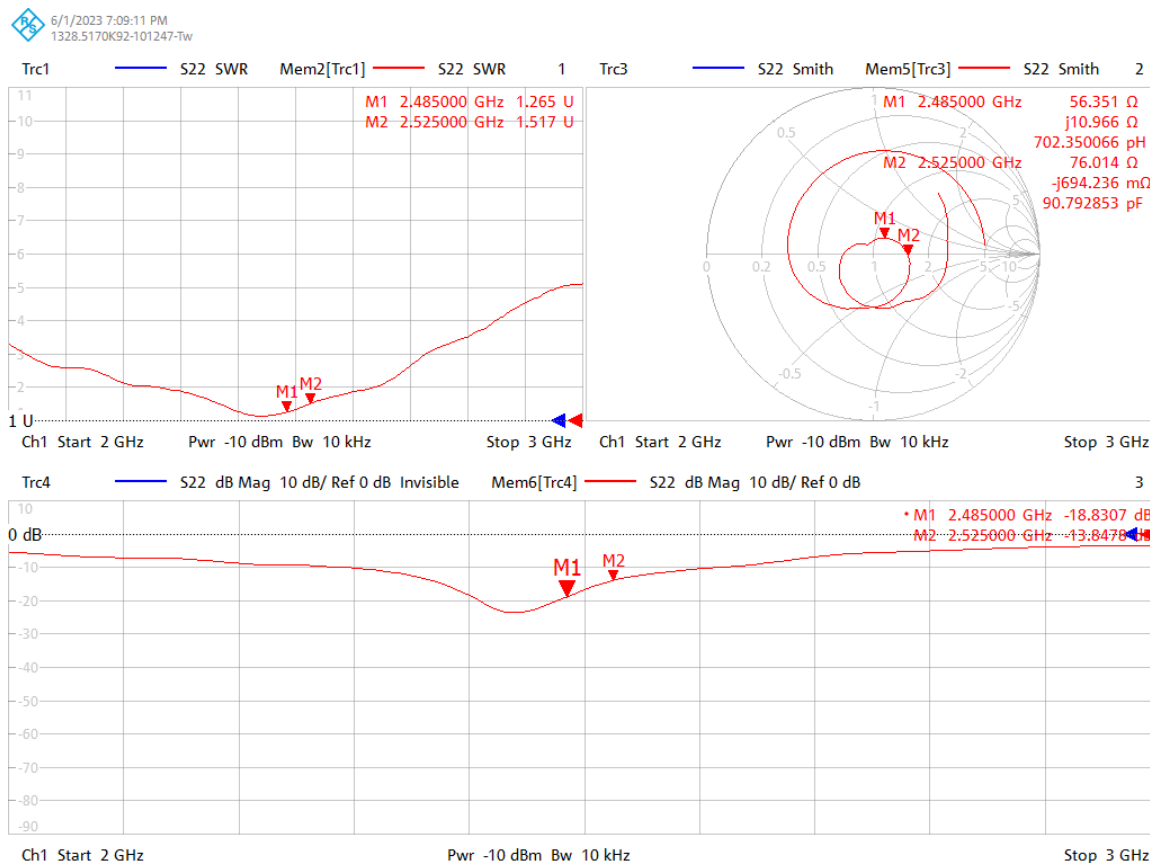


3. DWG/工程图纸



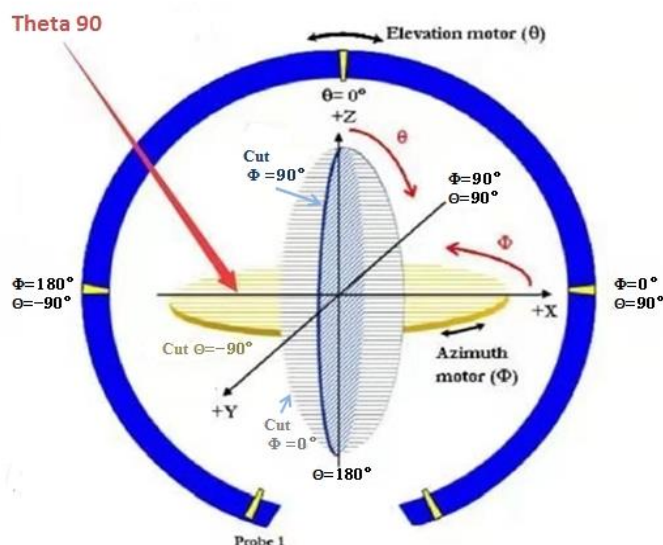
4. Antenna test result/测试结果

4.1 VSWR/Smith chart/Return loss/驻波比/史密斯图/回损

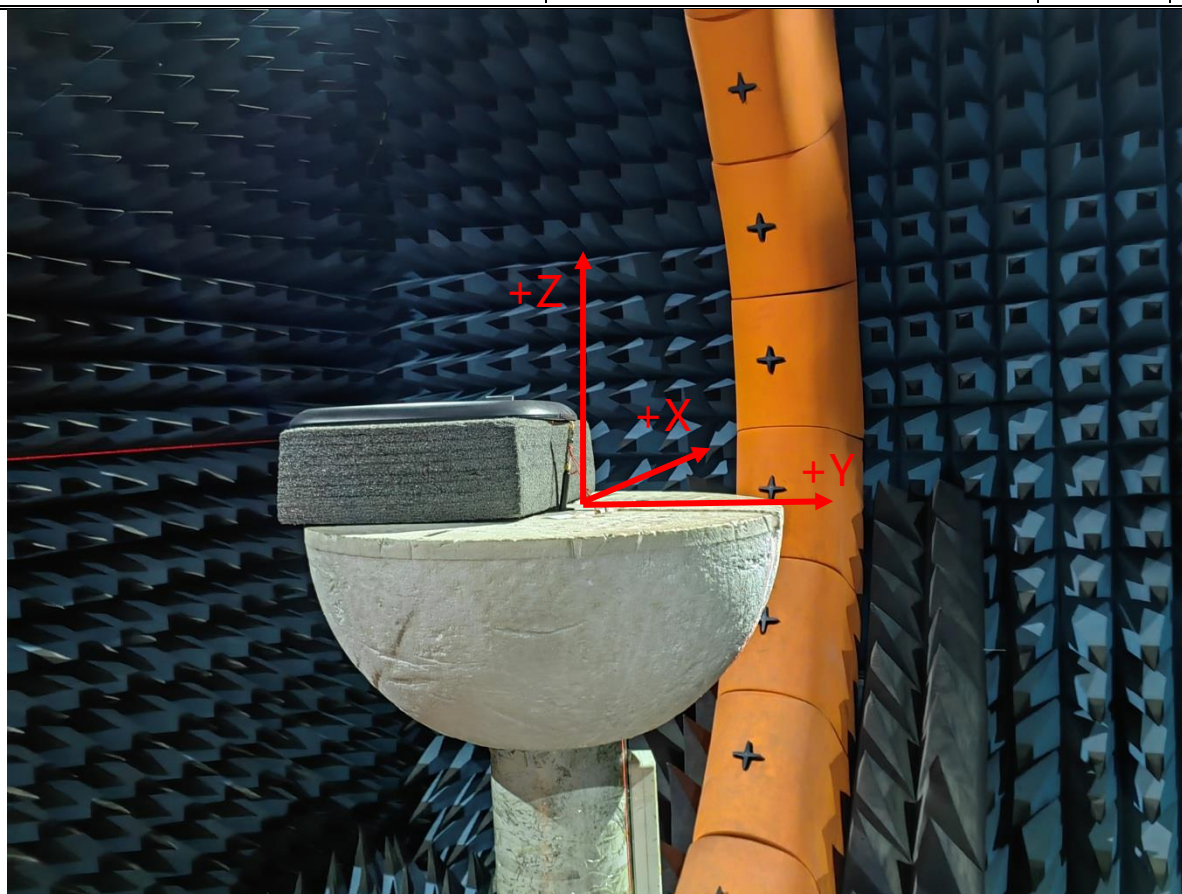


4.2 The gain and total efficiency test/增益和效率测试

4.2.1 The definition of coordinate system/坐标系定义-Satimo SG24



The coordinate system of Chamber/暗室坐标系



The production test position/天线测试放置位置

4.2.2 The test result of total efficiency and total gain/天线效率及增益测试结果

2400MHz-2525MHz

Frequency	Efficiency (%)	Gain (dBi)
2400MHz	52%	2.30
2402.5MHz	52%	2.25
2405MHz	52%	2.31
2407.5MHz	51%	2.32
2410MHz	52%	2.40
2412.5MHz	52%	2.41
2415MHz	52%	2.45
2417.5MHz	53%	2.47
2420MHz	53%	2.54
2422.5MHz	53%	2.48
2425MHz	53%	2.46
2427.5MHz	53%	2.43
2430MHz	53%	2.39
2432.5MHz	53%	2.36
2435MHz	53%	2.30
2437.5MHz	53%	2.22
2440MHz	52%	2.17
2442.5MHz	52%	2.10
2445MHz	52%	2.10

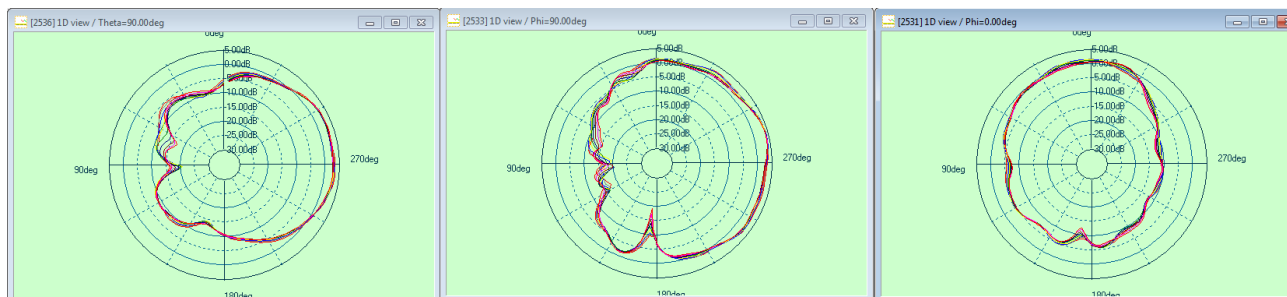
Product Specification

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X1
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2447.5MHz	51%	2.01
2450MHz	51%	2.01
2452.5MHz	51%	2.02
2455MHz	51%	2.00
2457.5MHz	51%	2.03
2460MHz	51%	1.98
2462.5MHz	52%	2.05
2465MHz	52%	2.12
2467.5MHz	53%	2.19
2470MHz	53%	2.29
2472.5MHz	54%	2.34
2475MHz	54%	2.35
2477.5MHz	54%	2.32
2480MHz	54%	2.38
2482.5MHz	54%	2.30
2485MHz	58%	2.37
2490MHz	58%	2.35
2495MHz	56%	2.29
2500MHz	54%	2.22
2505MHz	52%	2.10
2510MHz	52%	2.17
2515MHz	52%	2.18
2520MHz	52%	2.23
2525MHz	53%	2.22
AVG	53%	2.26

4.2.3 The antenna radiation pattern(1D View)/天线辐射方向图 (1D View)

2400MHz-2525MHz



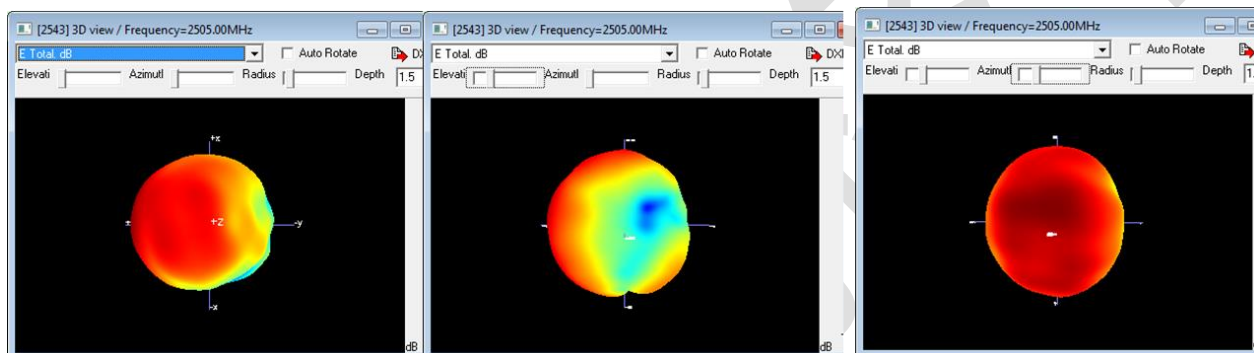
X0Y

Y0Z

X0Z

4.2.4 The antenna radiation pattern(3D View)/天线辐射方向图 (3D View)

2505MHz



X0Y

Y0Z

X0Z