

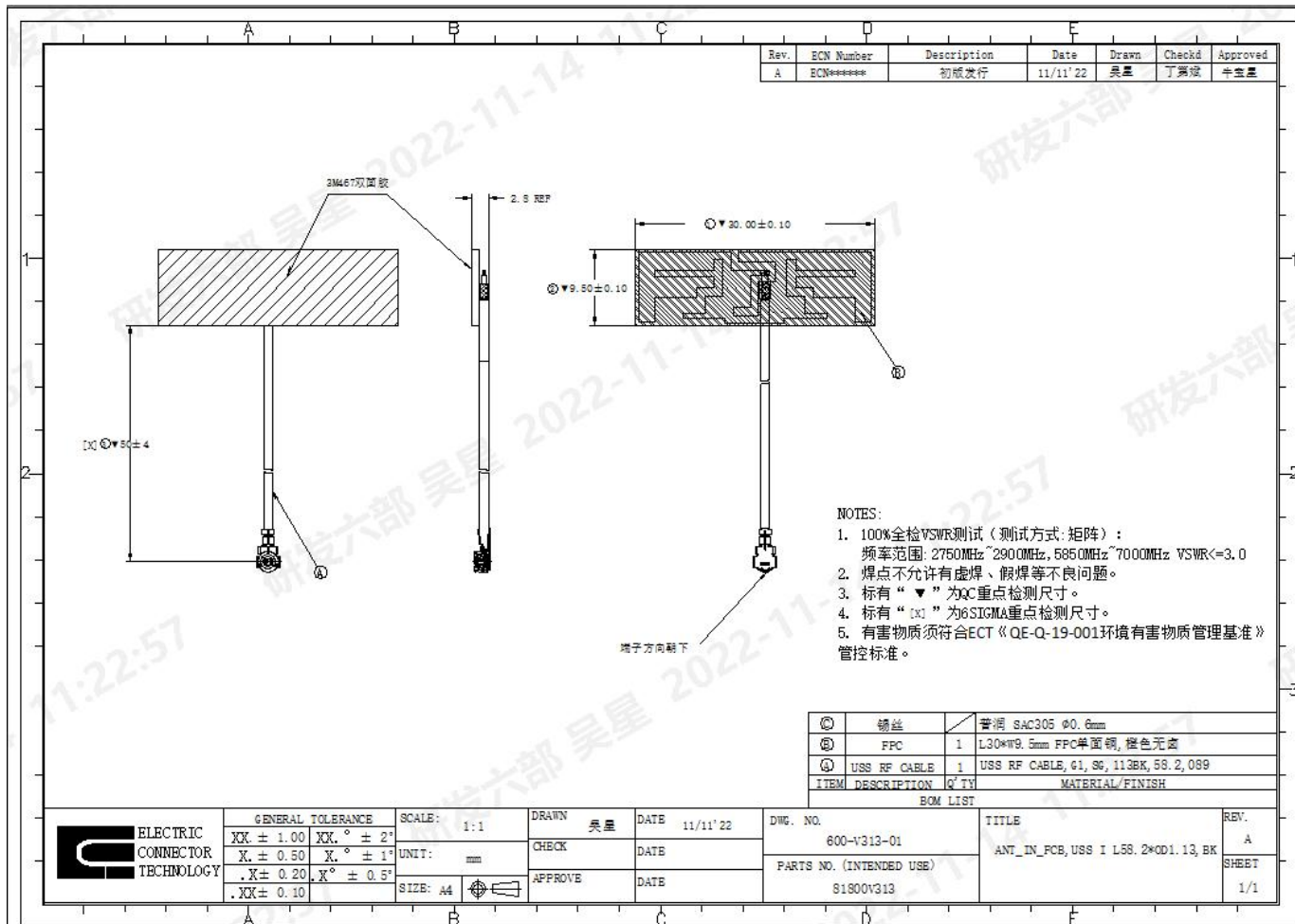
1. Antenna Specification/天线标准

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-2500MHz/5150MHz-5850MHz		
Impedance/阻抗	50 (Ω)		
VSWR/驻波比	<14.0	<8.0	
Directional/辐射方向	Omni directional/全向辐射		
Polarization/极化形式	Vertical polarization/垂直极化		
Peak Gain/峰值增益	-3.02dBi	4.07dBi	
Test condition/测试条件	passive test (无源测试)		
Total Efficiency/无源效率	10%	15%	
Mechanical Specification/机械指标			
Antenna type/天线类型	FPC 天线		
Connector Type/连接器类型	USS RF PLUG 1 代端子		
RF Cable Type/射频线型号	USS RF Coaxial Cable,32AWG D=1.13(S+T)黑色		
Connector Torque Test/连接器扭力	N/A		
Connector Pull Test/连接器拉力	≥1.0Kgf		
Salt Spray/盐雾测试	24 (H)		
Environmental Specification /环境指标			
Operating temp/工作温度	-40℃ ~ +75℃		
Storage temp/存储温度	-40℃ ~ +75℃		

2. Antenna Picture/天线图片

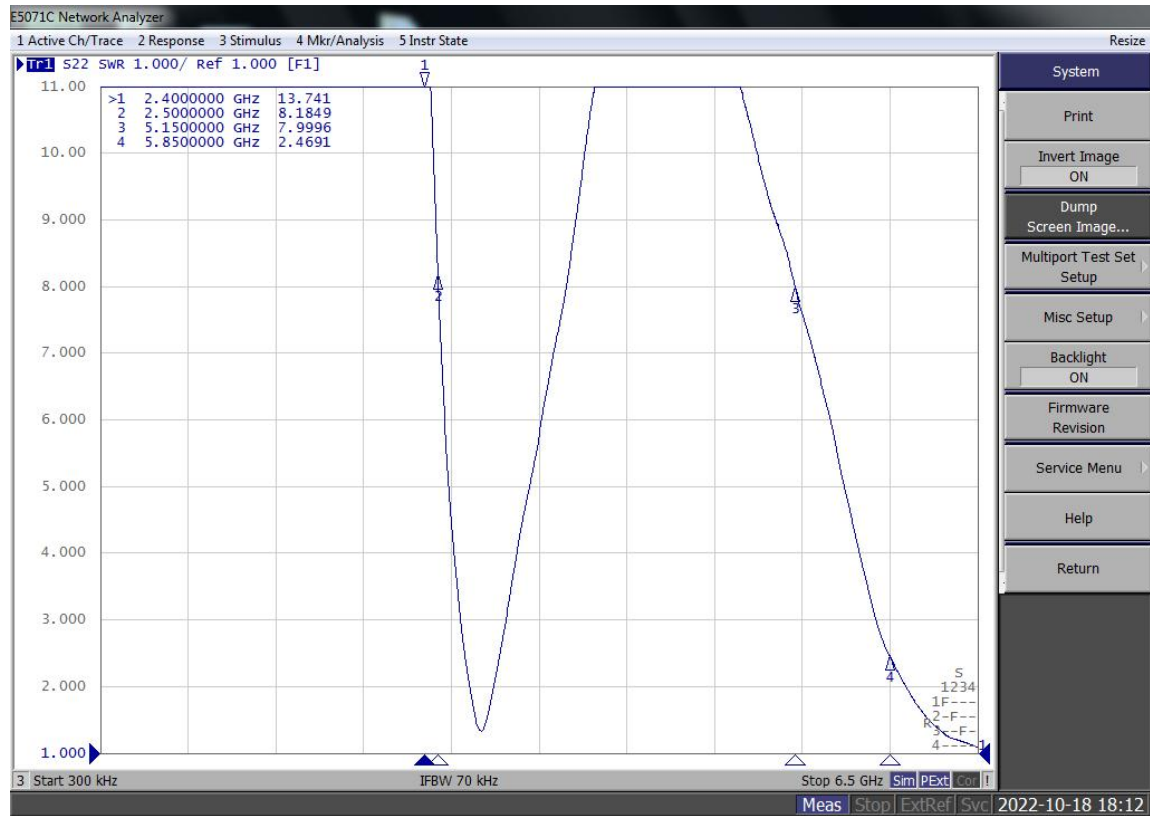


3. DWG/工程图纸



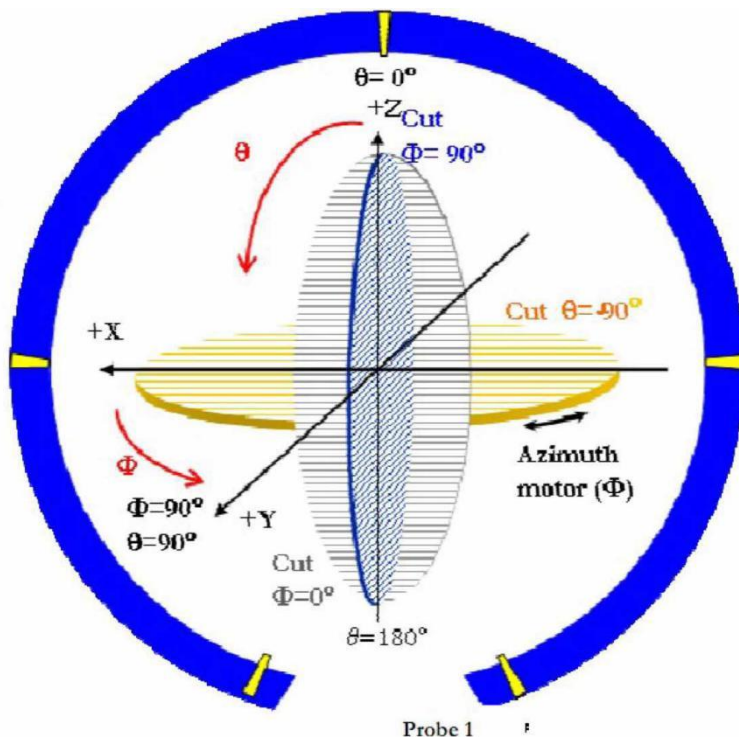
4. Antenna test result/测试结果

4.1 Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波比

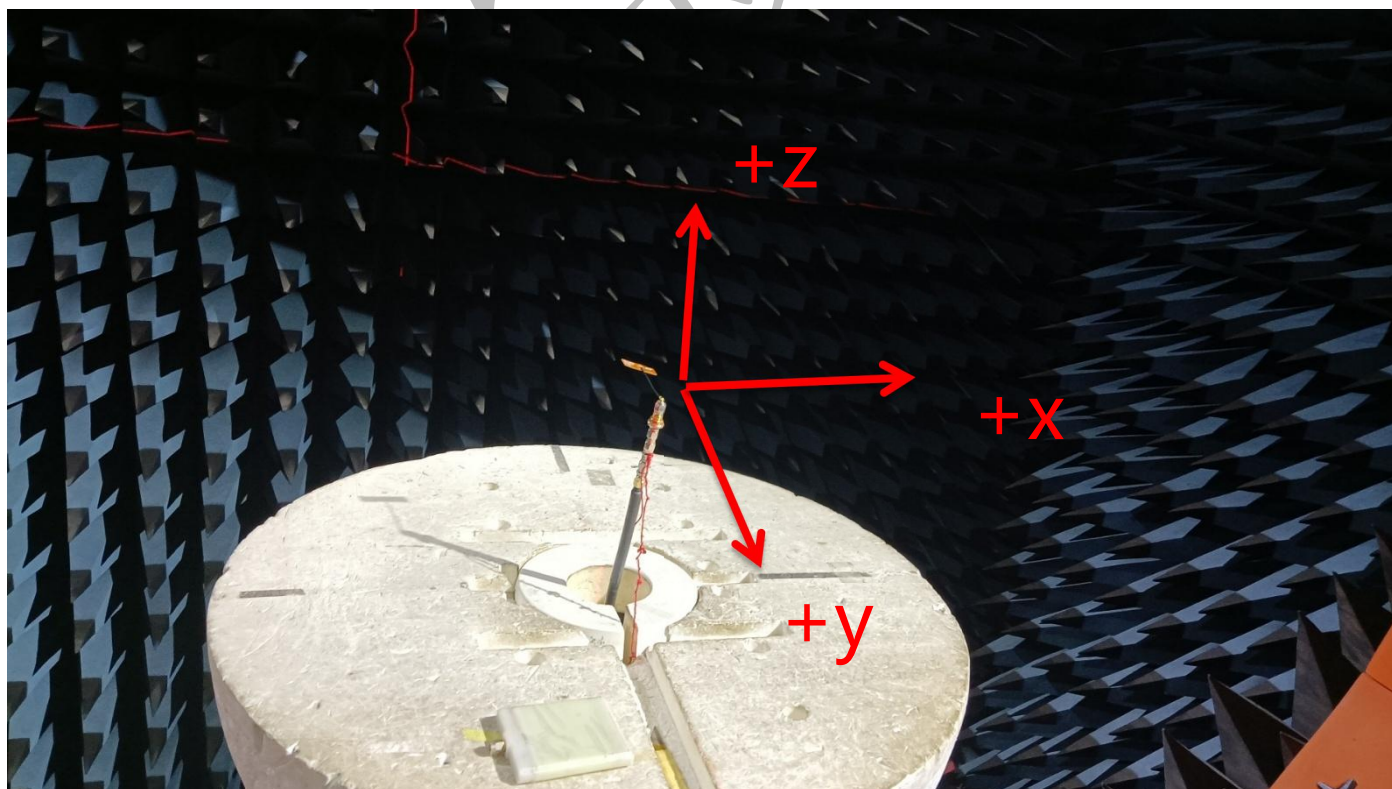


4.2 The gain and total efficiency test/增益和效率测试

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-2500MHz

Frequency	Efficiency(%)	Gain (dBi)
2400MHz	14%	-5.48
2405MHz	14%	-5.13
2410MHz	15%	-4.87
2415MHz	17%	-4.55
2420MHz	17%	-4.39
2425MHz	18%	-4.48
2430MHz	18%	-4.69
2435MHz	18%	-4.66
2440MHz	18%	-4.65
2445MHz	18%	-4.60
2450MHz	18%	-4.58
2455MHz	19%	-4.45
2460MHz	20%	-4.15
2465MHz	22%	-3.68
2470MHz	23%	-3.37
2475MHz	24%	-3.15
2480MHz	25%	-3.10
2485MHz	25%	-3.02
2490MHz	25%	-3.11
2495MHz	24%	-3.25
2500MHz	23%	-3.23
AVG	20%	-4.12

5150MHz-5850MHz

Frequency	Efficiency(%)	Gain (dBi)
5150MHz	21%	-3.24
5200MHz	18%	-3.89
5250MHz	20%	-3.01
5300MHz	24%	-2.08
5350MHz	25%	-1.92
5400MHz	39%	0.16
5450MHz	31%	-0.70
5500MHz	38%	0.19
5550MHz	38%	0.29

5600MHz

40%

0.74

5650MHz

54%

2.24

5700MHz

54%

2.43

5750MHz

68%

3.49

5800MHz

60%

3.20

5850MHz

70%

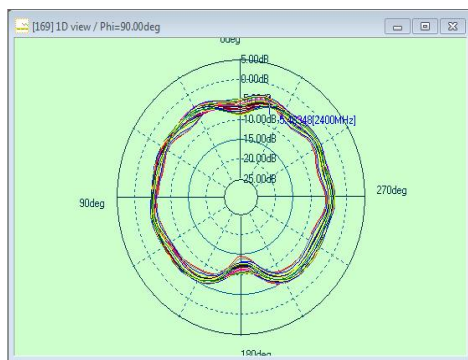
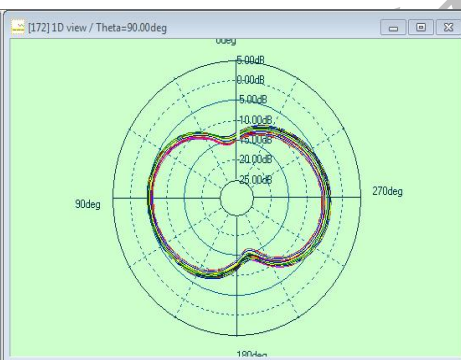
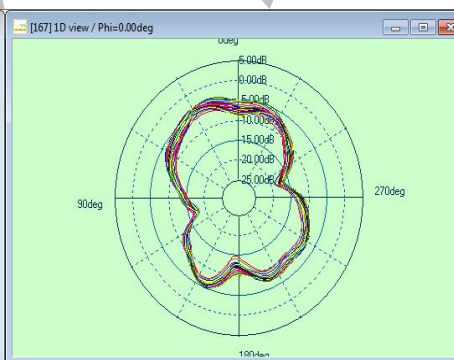
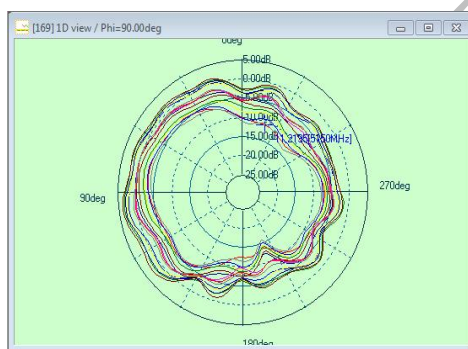
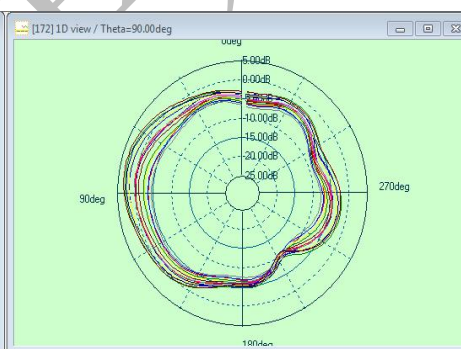
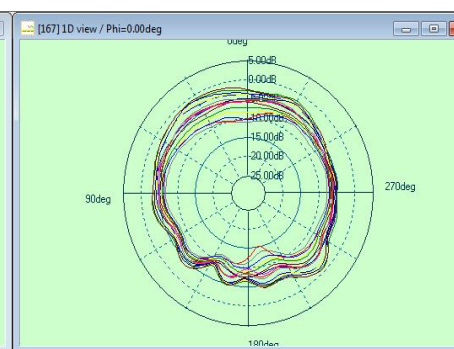
4.07

AVG

40%

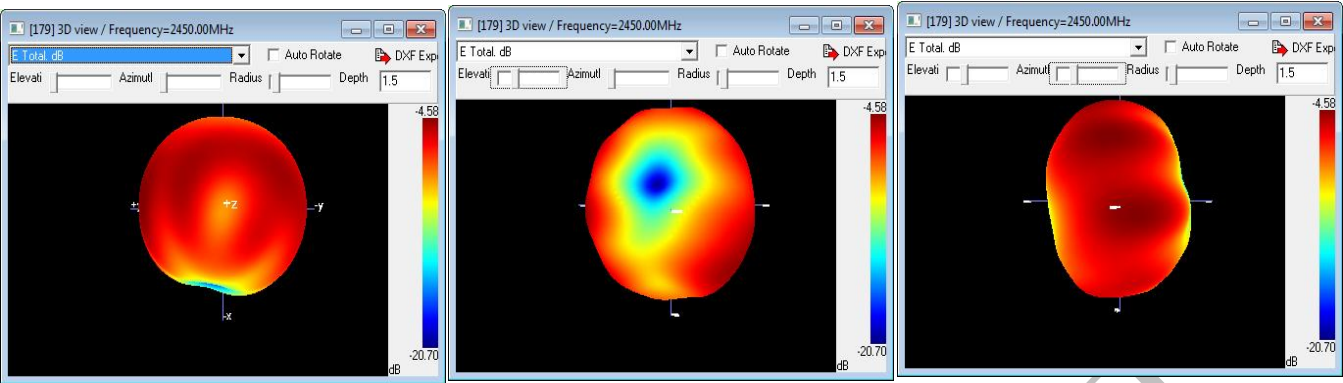
0.13

4.2.3 The antenna radiation pattern(2D)/天线辐射方向图 (2D)

2400MHz -2500MHz

XOY

YOZ

XOZ
5150MHz -5850MHz

XOY

YOZ

XOZ

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

Frequency/频点 2450MHz

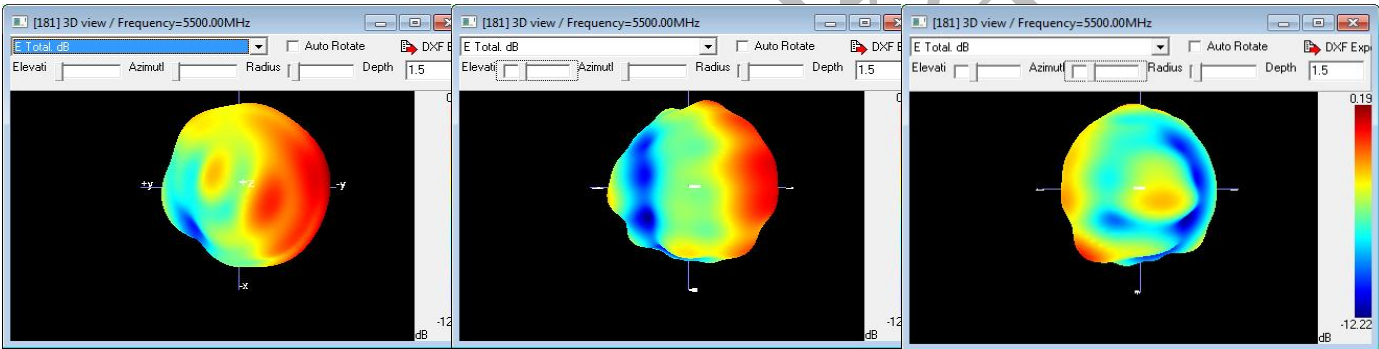


XOY

YOZ

XOZ

Frequency/频点 5500MHz



XOY

YOZ

XOZ