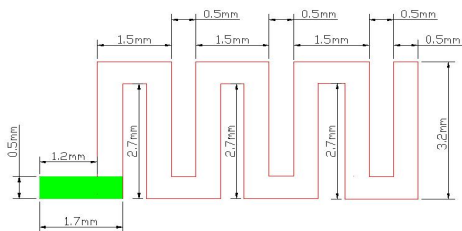


1. 天线类型/ Typea

(Antenna module on the system board)



参数 / Parameters	典型值 / Typ.	单位 / Unites	备注 / Notes
电气特性 / Electrical Characteristics			
类型 / Antenna Type	FPC 天线 / FPC Antenna		
频率 / Frequency Range	2400-2500	MHz	
输入阻抗 / Input Impendence	50	Ω	
驻波比 / V.S.W.R	<2.5		
增益 / Gain	1.95	dBi	
极化方式 / Polarization Type	垂直 / Vertical		
功率容量 / Power Capacity	50	W	
雷电保护 / Lightning Protection	-		
工作电压 / DC Voltage	-	V	
辐射体 / Radiator	-		
环境特性 / Environmental Characteristics			
防护等级 / Waterproof Rating	-		
ROHS 标准 / ROHS Complaint	符合		
工作温度 / Operating Temperature	-45~ +85	$^{\circ}\text{C}$	
存储温度 / Storage Temperature	-45~ +85	$^{\circ}\text{C}$	

2. 测试设备 / Test Equipment



Keysight/E5071C 网络分析仪



R&S/CMW500 综测仪



R&S/SMBV100B 信号源



DT-3500 Datasheet / 系统规格

Specification:	Description
Test Frequency /测试频域:	400MHz-8.5GMHz
System Size /系统尺寸:	L*W*H=4*3.5*3.5m
Number of Probes /探头数目:	23 (Probe) + 1 (link)
Interval Angle /采样夹脚:	15°
Sampling Diameter /采样直径:	2200mm
Carring Capacity /承载能力:	≤40kg

Testing Capability / 测试能力

Description / 能力描述

Active measurement

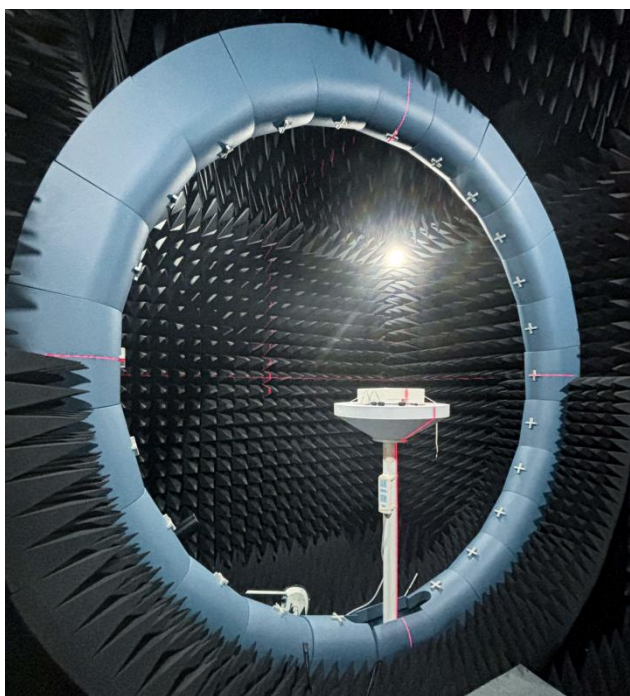
有源测试

Capability /测试指标: TRP、TIS、EIRP、EIS,. etc
Mode /测试制式: 2G/3G/4G/5G、Wi-Fi b/g/n/a/ac/ax、BT、NB-IOT、Cat-M(eMTC)、GPS/BEIDOU/GLONASS、ZigBee、LoRa(Non-Signaling),.etc

Pasive measurement

无源测试

Test category /测试类型: Gain、Efficiency、2D pattern、3D pattern、Pattern roundness、Axial Ratio, ECC,Phase center,. etc
Polarization /极化方式: Circular polarization, linear polarization, elliptical polarization

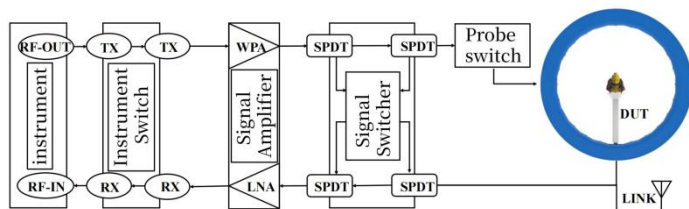


RF Link diaram of multi probe spherical near-field testing system

多探头球面近场测试系统射频链路图

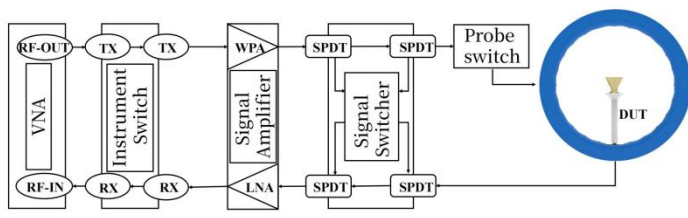
RF Link Overview

总射频链路图



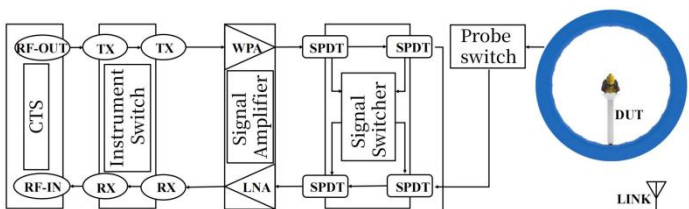
RF Link Passive measurement

无源测试链路图



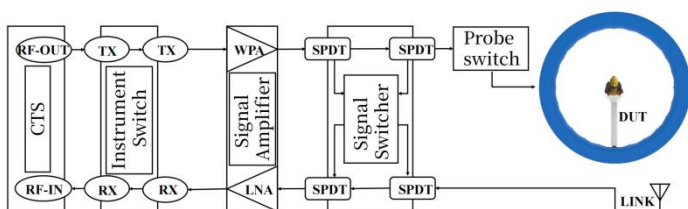
RF Link Overview

总射频链路图



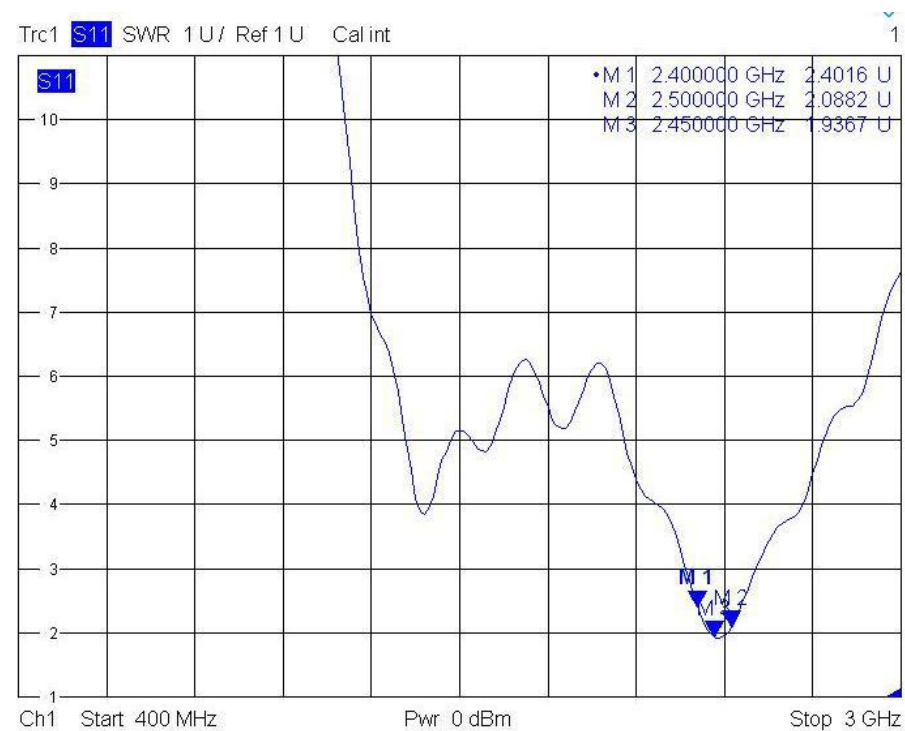
RF Link of Passive measurement

无源测试链路图

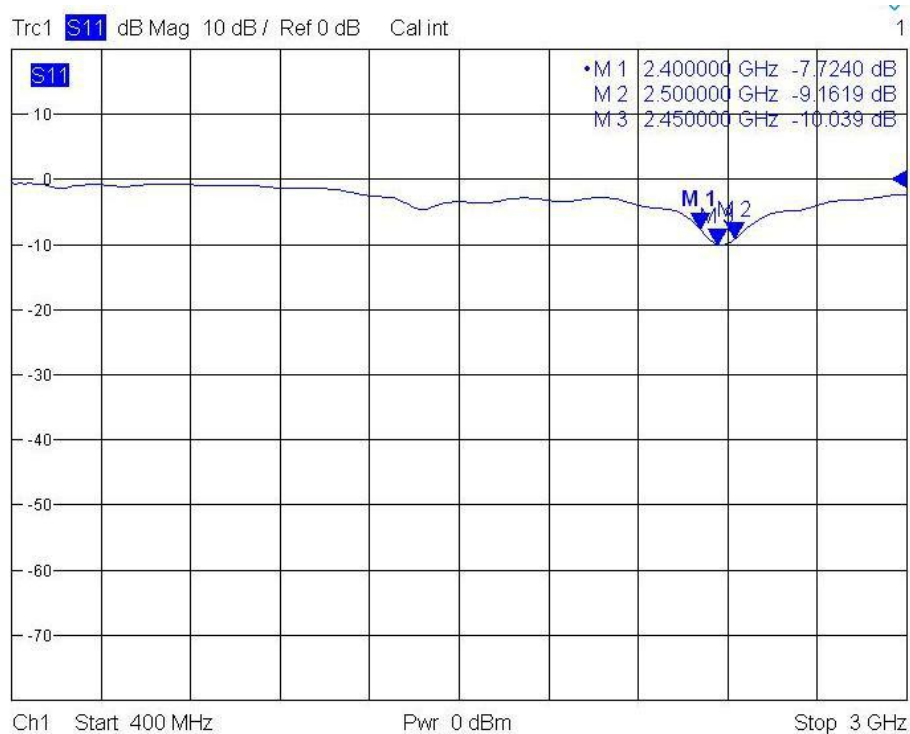


3. 性能数据 / Performance Data

3.1 电压驻波比 / VSWR

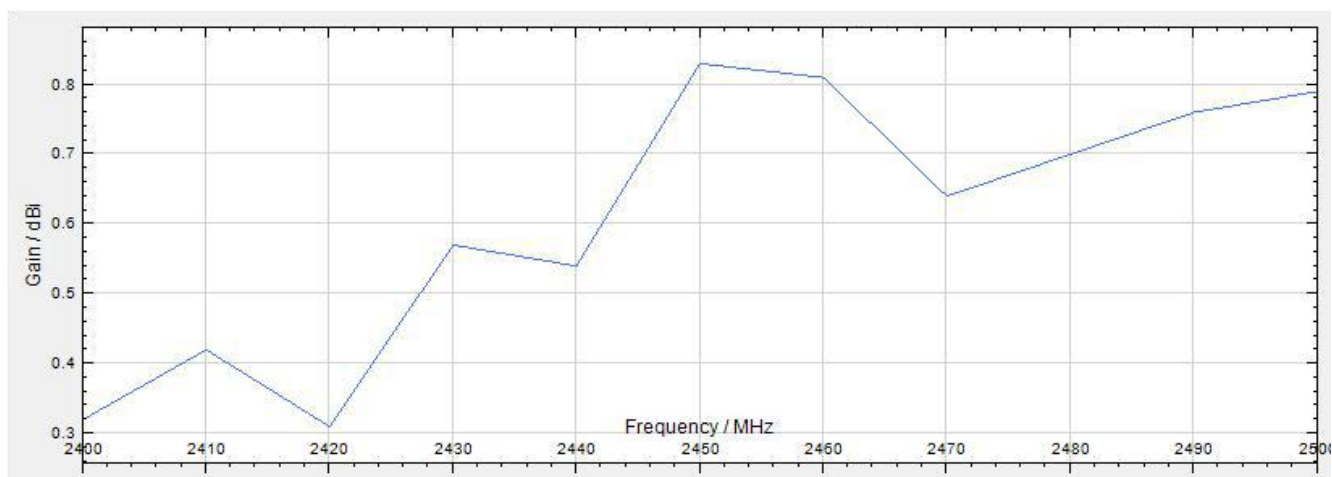


3.2 回波损耗 / Return Loss

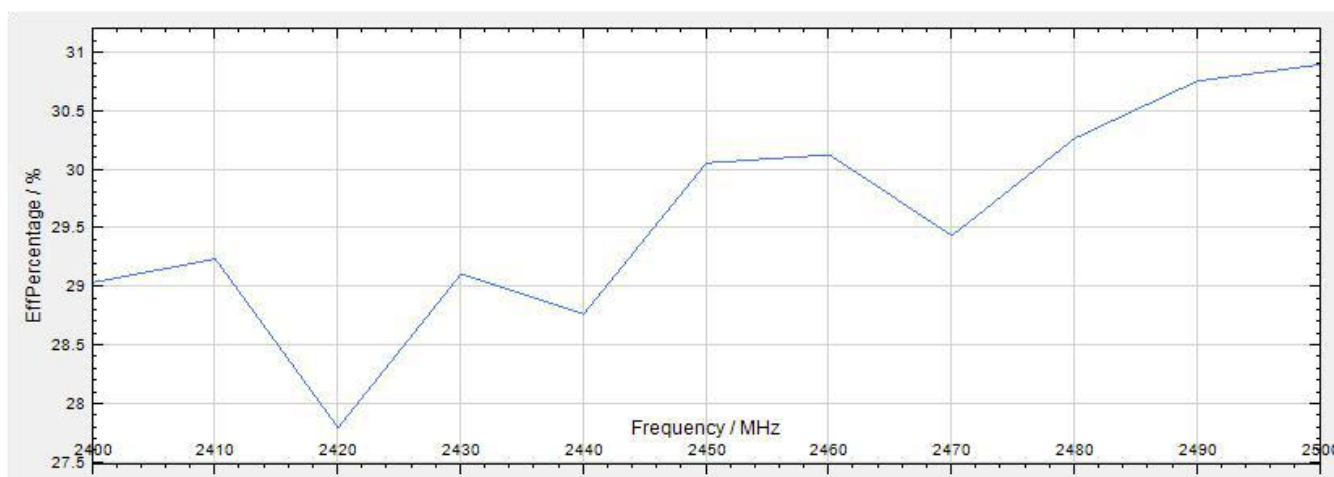


4. 性能数据 / Performance Data

4.1 增益 / Gain



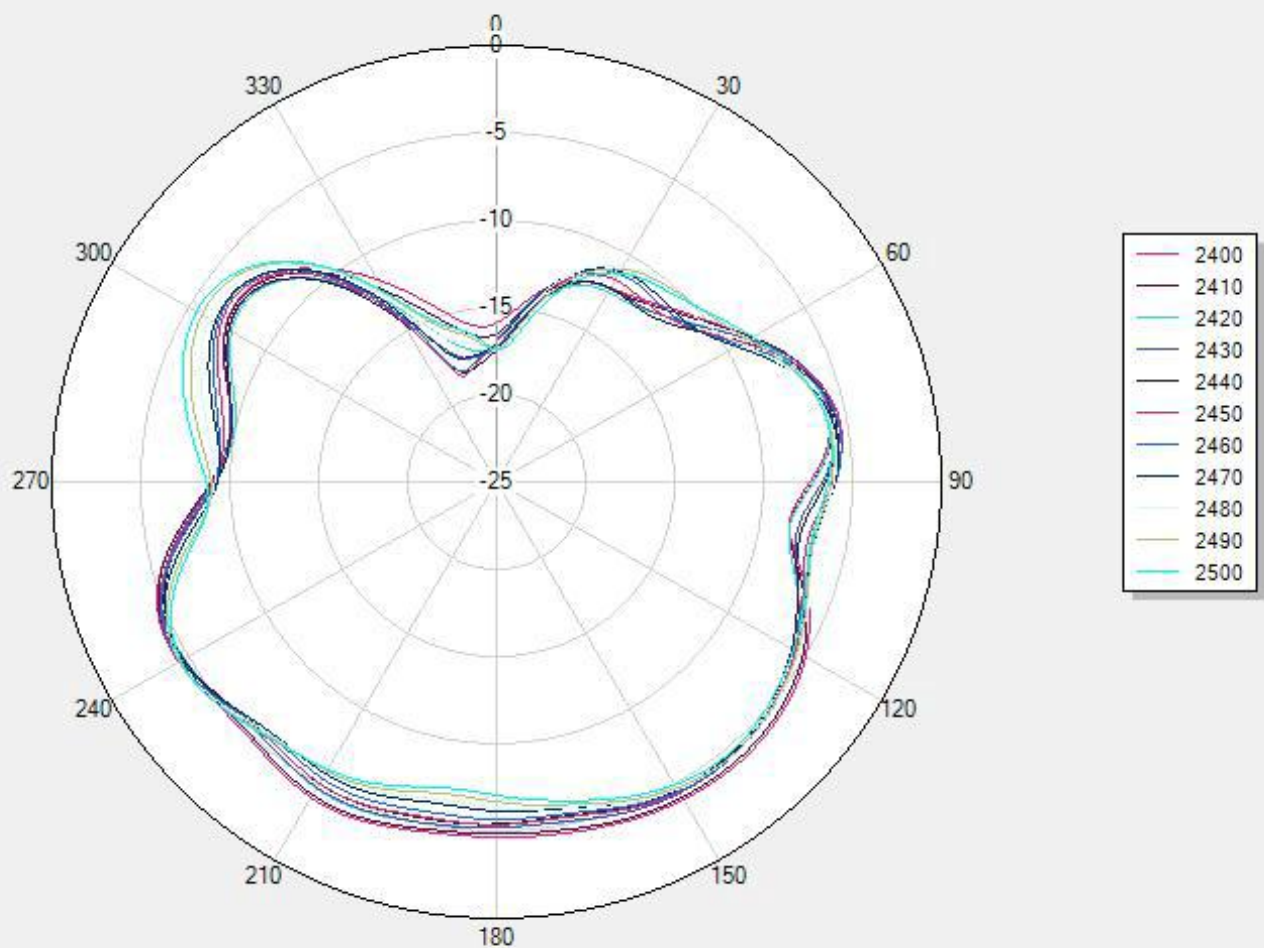
4.2 效率 / Efficiency



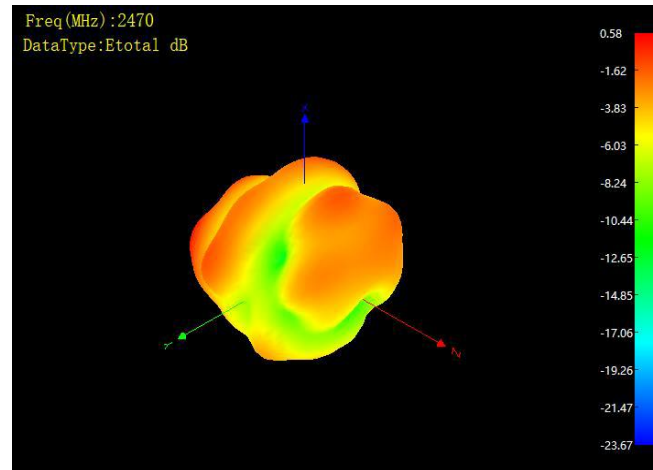
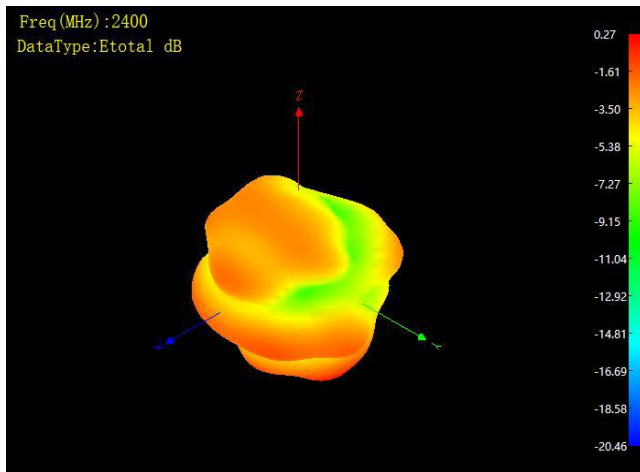
4.3 天线增益与效率

频率 / Frequency (MHz)	2400	2450	2500
最大增益 / Gain (dBi)	0.32	1.95	0.79
效率 / Efficiency (%)	29.4	30.06	30.9

5.1 2D 辐射模式图 / Radiation Patterns



5.2 3D 辐射模式图 / 3D Radiation Patterns—2400MHz、2450MHz



5.3 3D 辐射模式图 / 3D Radiation Patterns—2500MHz

