

样品承认书

Parts Approval Sheet

生产供应商: 国质信

Supplier

物料名称: WIFI 天线

Parts Name

适用项目: JK200

Type/Spec

NQI 规格: NQI-JK200-TG4.4 -71X

Parts No

品 牌: NQI

Brand

客户料号:

Quantity

送样日期: 2025/11/18

Send out Date

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Document No

承认日期:

Approve Date

样品版本: V0

Version

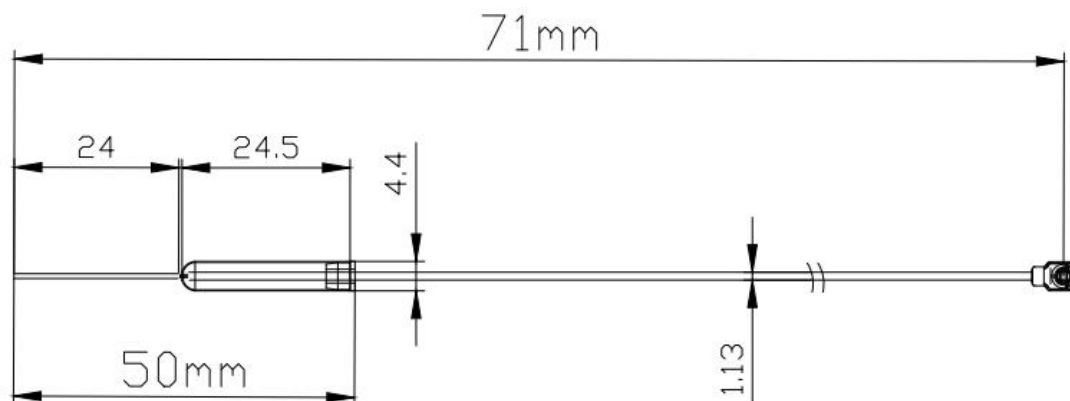
Supplier		Customer	
Approved By	Prepared By	Engineering Dept	Quality Dept
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一. 样品及说明 (Sample picture and description) :

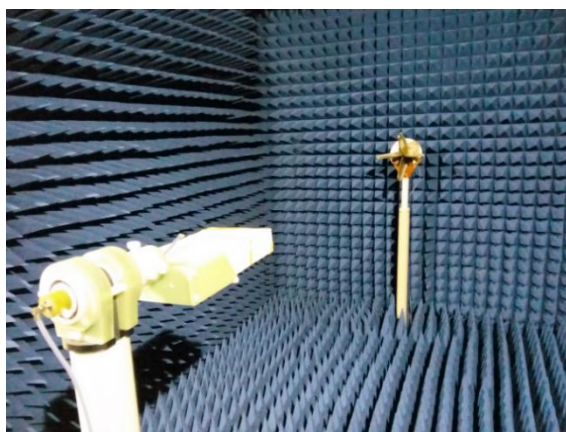


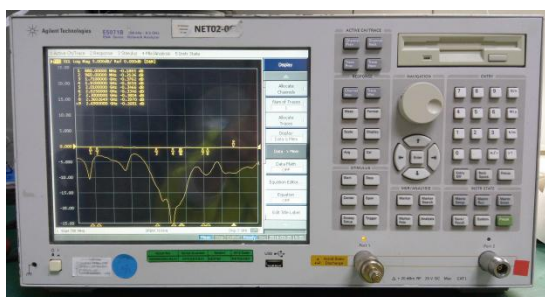
电气参数说明 (Electrical Specifications)	
频率范围 (Frequency range)	(2400-2500)MHz
特性阻抗 (impedance)	50 ohm
电压驻波比 (VSWR)	≤ 2.9
峰值增益 (Gain)	3.92DBi
极化形式 (Polarization)	线性
辐射方向 (Radiation direction)	全向
连接方式说明 (Connection Mode Description)	
连接器 (connector)	IPEX 一代
线缆规格 (Cable specifications)	1.13*71MM 同轴线
工作/储存温度 (Working/Storage temperature)	
工作温度 (Working temperature)	-30℃~65℃
储存温度 (Storage temperature)	-30℃~75℃

二. 试设备及项目 (Test equipment and items) :

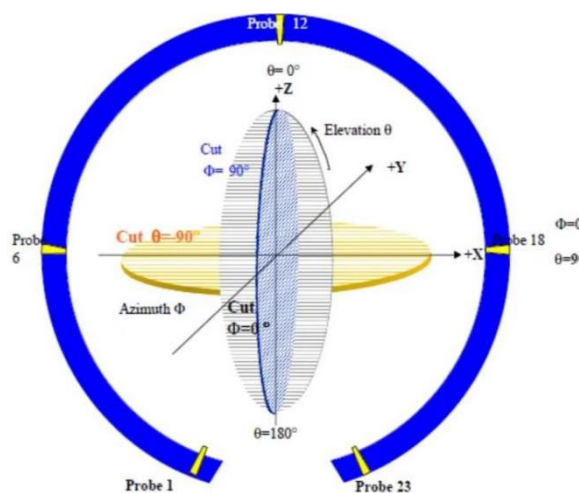
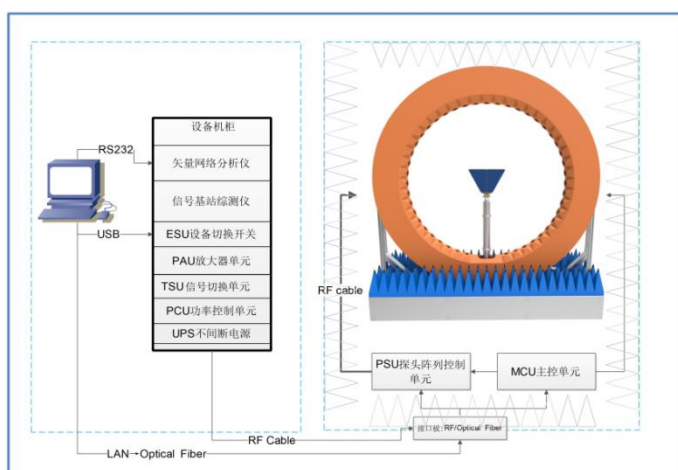
类别 (Class)	测试项目 (Test item)	设备 (Equipment)
1. S parameter	1. 回波损耗(RL)	网分 (VNA) : Agilent E5071B
	2. 驻波比 (VSWR)	R&S ZVB8
	3. 史密斯原图 (Smith chart)	Protek A333

2. 耦合测试 (Coupling testing)	1. 发射功率 (MAX Power) 2. 接收灵敏度 (MIN Sens)	1. 2G/3G Tester: Agilent 8960 2. The coupling box: TESCO TC-5060A 3. 3D Chamber: ETS 3D Chamber (5x3x3)
3. 3D 无源测试 (Passive Test)	1. 效率 (Effeciency) 2. 增益 (Gain) 3. 辐射方向图 (Radiation pattern)	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS 3D Chamber (5x3x3) 2. 网分 (VNA): Agilent E5071B R&S ZVB8
4. 3D 有源测试 (Active Test)	1. 3D 功率 (TRP) 2. 3D 灵敏度 (TIS) 3. 吞吐率 (Throughput rate)	1. 3D Chamber: TEM24 3D Chamber (5x5x5) ETS 3D Chamber (5x3x3) 2. 2G/3G Tester: Agilent 8960 3. 4G Tester: MT8820C/CMW500 4. WIFI/BT/NB-iot Tester: CMW500 5. 5G Tester: SP9500-CTS 6. Head: HEAD-P10 (FACE-P10)

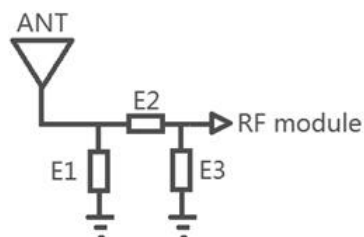




三. 暗室连接及坐标 (Chamber connection and coordinates) :

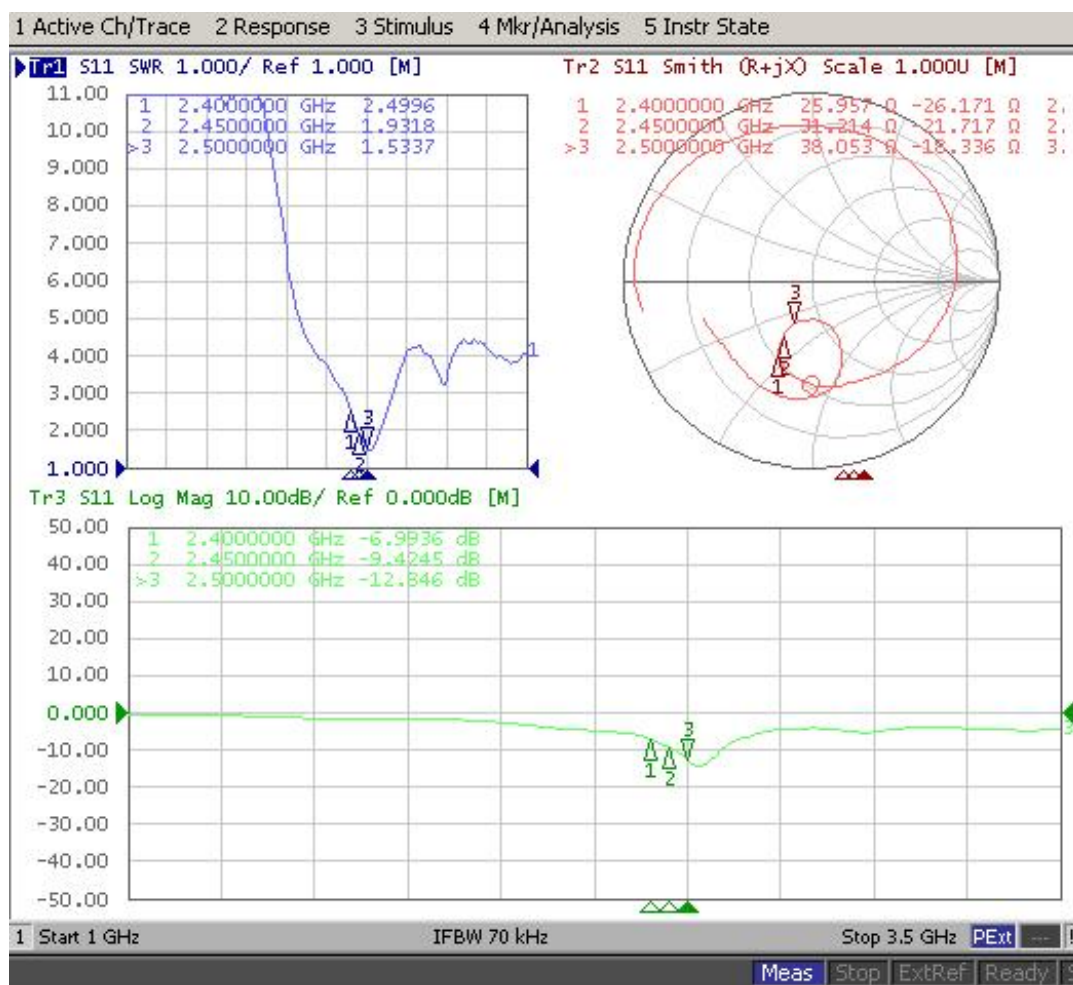


四. 天线匹配网络 (Antenna matching network) :



Element	(Value)
E1(0201)	主板原始
E2(0201)	匹配, 无更改
E3(0201)	改

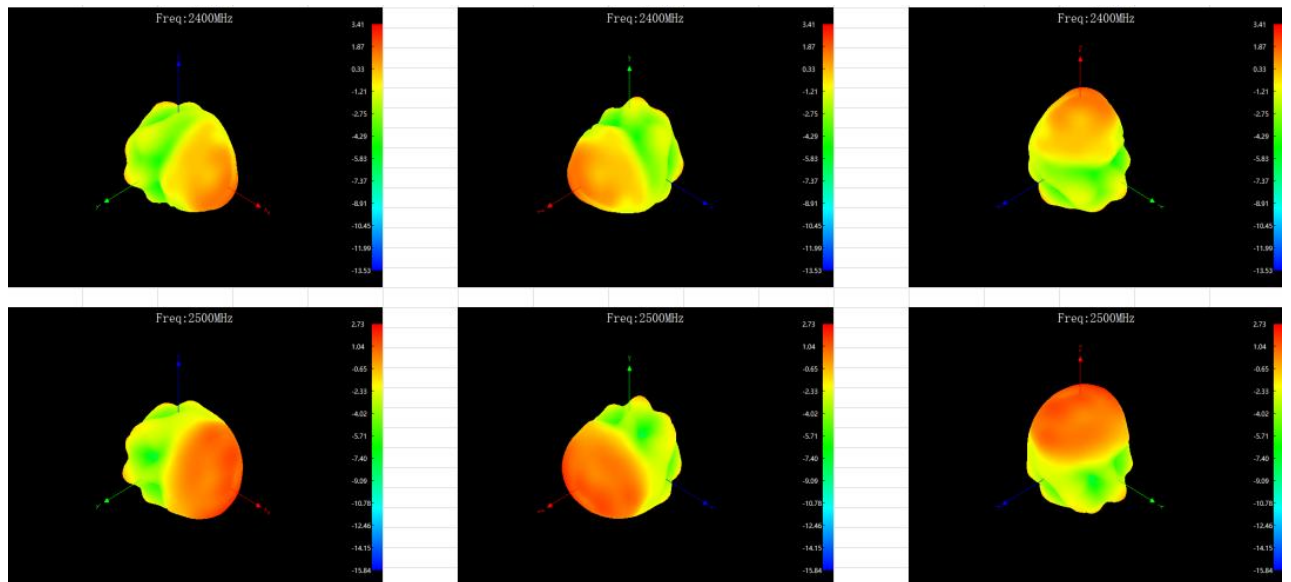
五. RL/VSWR/Smith Chart (回波损耗/驻波比/Smith)



5.1 增益及效率(Gain and efficiency)

Frequency/Mhz	MaxGain/dBi	Efficiency/%
2400	3.41	57.41
2410	2.77	55.46
2420	2.98	57.02
2430	2.58	54.95
2440	2.81	58.48
2450	3.53	63.1
2460	3.78	65.77
2470	3.92	65.16
2480	3.02	60.67
2490	2.98	61.8
2500	2.73	63.1

5.2 3 D 图



5.3 TRP&TIS OTA 数据

NQI ANT TRP&TIS parameter Summary of JK200			
BAND	WIFA-N (65M)		
CHANNEL	1	6	11
TRP (dBm)	21.38	20.95	19.58
TIS (dBm)	-73.93	-74.53	-72.74



