天线承认书

Parts Approval Sheet

Customer	安鸿	**Project**	**ABM600 摄像头天线**
Band	**2400-2500MHz**	**Color**	**TRUE QUALITIES**
PN	**X1991**	**Version**	**V2**
Customer material number			

DATE: 2024/01/29

R&D			**QC**
Issued by	**Checked by**	**Confirmed by**	**Checked by**
伍海沅	**蔡章林**	项念	文孝群
Customer Confirm			

Environmental requirements: ■ ROHS □ REACH □ 无

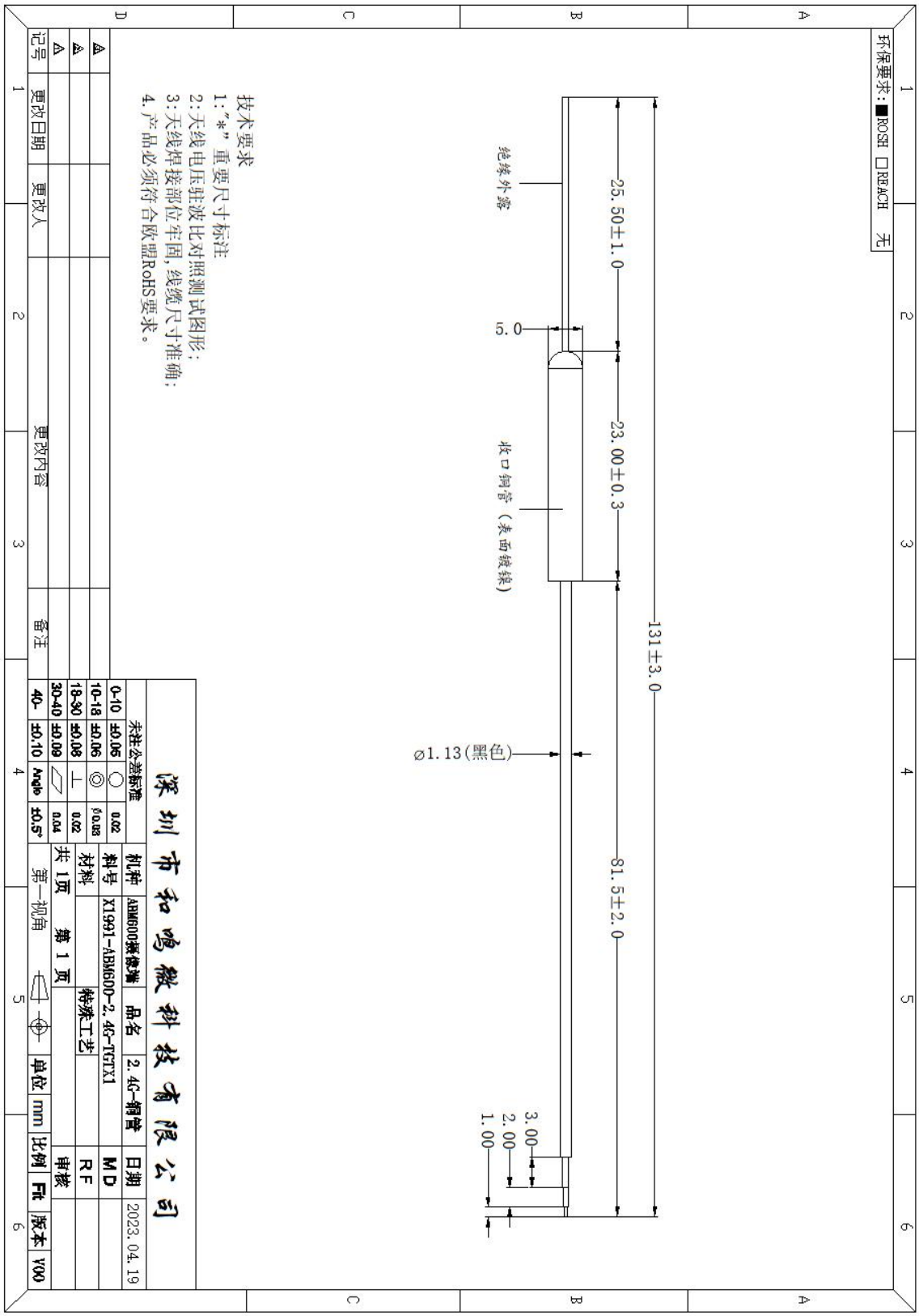
Contents

1．Specification Sheet

Main technical specifications of the product

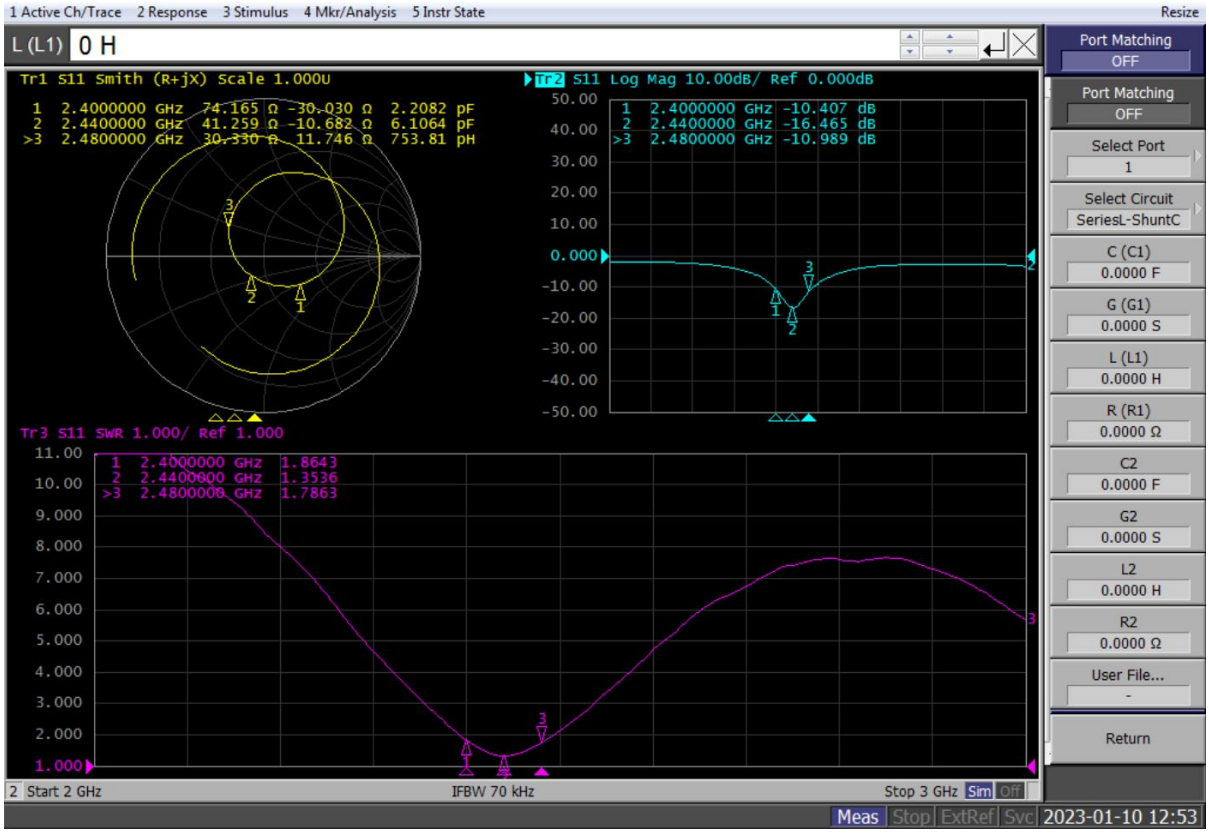
主要技术指标		Main technical specifications	
频率范围（MHZ）	2400-2500	Frequency Range (MHZ)	2400-2500
特性阻抗(Ω)	50±10	Impedance(Ω)	50±10
增益(dBi)	2±0.5	Gain(dBi)	2±0.5
输出电压驻波比	≤2.0	VSWR	≤2.0
最大功率	10W	Admitted Power	10W
极化方式	垂直极化	Polarization	Linear,Vertical
连接方式	NA	Connector Type	NA
物理性能		Physical Properties	
天线本体材料	Copper tube	Antenna Base	Copper tube
工作温度	-20℃~+65℃	Operating Temp	-20℃~+65℃
保存温度	-30℃~+75℃	Storage Temp	-30℃~+75℃

2. Product diagram



3. Test report

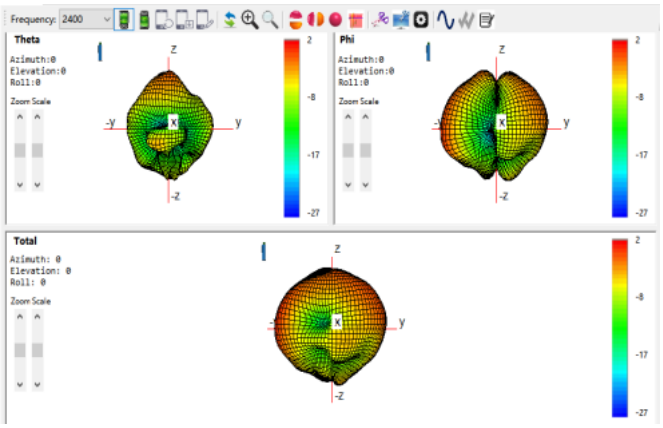
3.1. Network Analyzer Testing Report

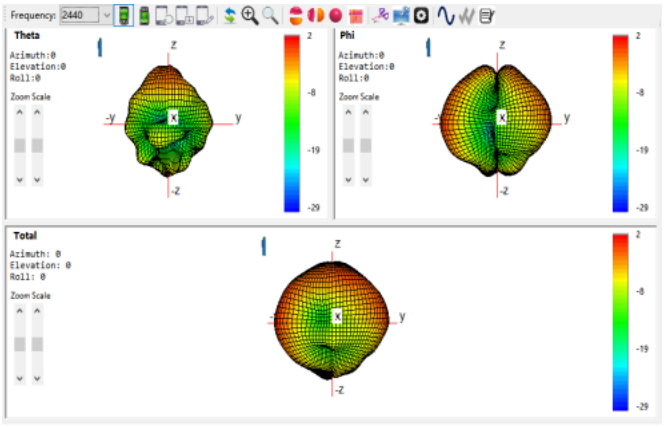


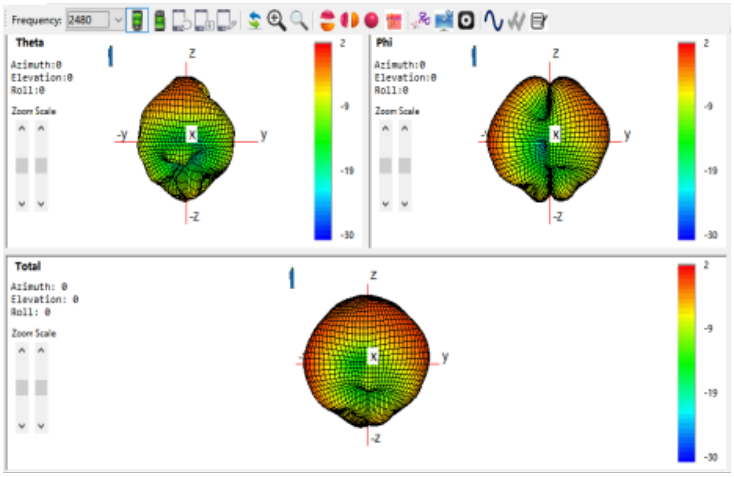
3.2. Gain and efficiency

camera		
Frequency	Gain	Efficiency
2400	0.66	55.12
2410	0.64	54.7
2420	1	54.79
2430	1.11	55.12
2440	1.29	54.24
2450	1.57	56.62
2460	1.76	57.43
2470	1.97	58.94
2480	2.06	60.38
2490	2.09	60.27
2500	1.91	58.47

3.3. 3D radiation pattern







4. Reliable reporting

Reliability Test Report				
Test Item	**Test Conditions**	**Judgment Criteria**	**Test**	**Judgment**
1. High Temperature Test	Placed in a 60±2°C environment for 4 hours	After returning to ambient temperature and stabilizing for 2 hours, all dimensions shall meet specification requirements, with no visual defects such as deformation, warpage, delamination, or other abnormalities, and performance shall remain normal.	5 PCS	Pass
2. Low Temperature Test	Placed in a -20±2°C environment for 4 hours	After returning to ambient temperature and stabilizing for 2 hours, all dimensions shall meet specification requirements, with no visual defects such as deformation, warpage, delamination, or other abnormalities, and performance shall remain normal.	5 PCS	Pass
3. Thermal Cycling Test	60±2°C for 30 minutes, then ambient temperature for 5 minutes ; -20±2°C for 30 minutes, then ambient temperature for 5 minutes	After 5 complete cycles, all dimensions shall meet specification requirements, with no visual defects such as deformation, warpage, delamination, or other abnormalities , and performance shall remain normal.	5 PCS	Pass
4. Temperature & Humidity Test (Damp Heat)	Exposed to 40±2°C and 93±2% RH for XXH	After returning to ambient temperature and stabilizing for 4 hours, all dimensions shall meet specification requirements, with no visual defects such as deformation, warpage, delamination, or other abnormalities, and performance shall remain normal.	5 PCS	Pass
5. Salt Spray Test (NSS)	Temperature: 10–55°C Salt spray deposition rate: 500 ml/hr Salinity concentration: 5±1% NaCl Test duration: 24 hours	No oxidation, rusting, or corrosion on the surface	5 PCS	Pass