
Customer Admission Letter

SPECIFICATION FOR APPROVAL

CUSTOMER/PROJECT Customer/Model: _____

CUSTOMER P.N./ Customer part number: _____

PRODUCT NAME./ Material name: External Antenna

MODEL NO./ Material model: 13B008Q

VERSION Version	DATE date	REVISION DESCRIPTION Revision note
T:A	2023/9/13	Newly increased

Supplier Authorized Signature		
Prepared by	Review/CHECKED	Approved
Xiao Wenz- hen		

Customer Authorized Signature			
Project		Quality	

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1 Explanation of Nouns

dBi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access

2 Testing Facility

The SATIMO 64-bit anechoic chamber vector network analyzer and comprehensive tester can be adjusted according to actual conditions

3 Applicable Frequency Band

Mark the applicable frequency bands with other colors.

Standard	Frequency range	
WIFI (2.4G)	2412MHz~2483MHz	
5.8G	5150MHz~5850MHz	

4 Basic Test Items

4.1 Standing Wave Ratio Diagram

4.2 Smith Impedance Diagram

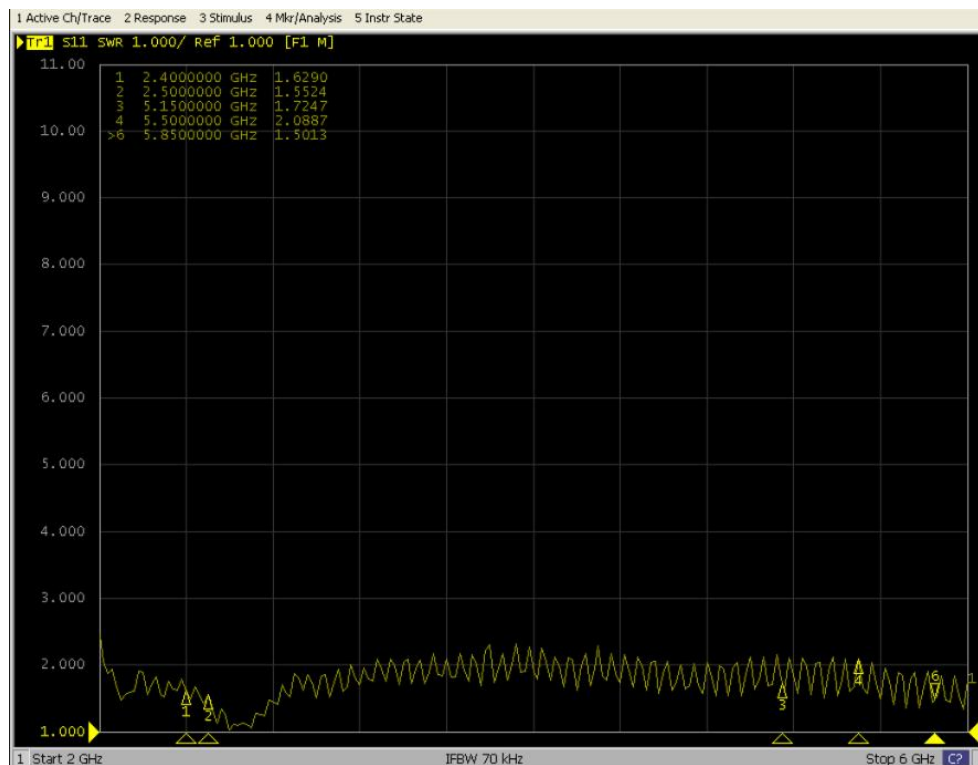
4.3 Antenna Pattern

4.4 Gain and Efficiency

5 Test Metrics and Data Charts

5.1 Standing-Wave Ratio

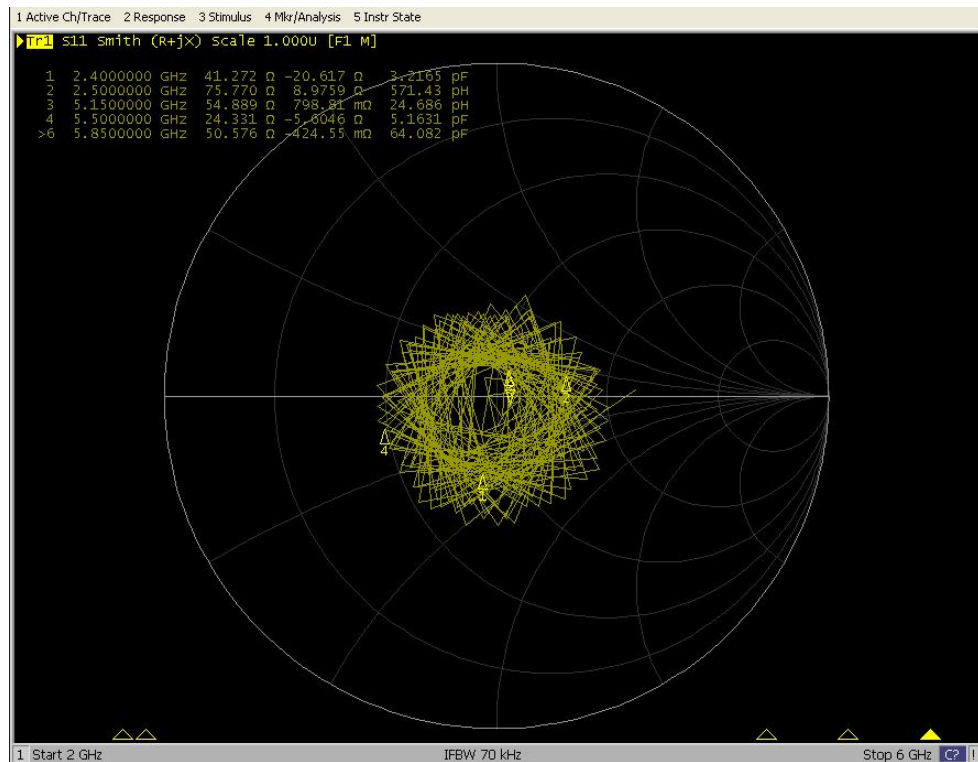
5.1.1 Standing Wave Ratio Diagram



5.1.2 Standing Wave Ratio Data

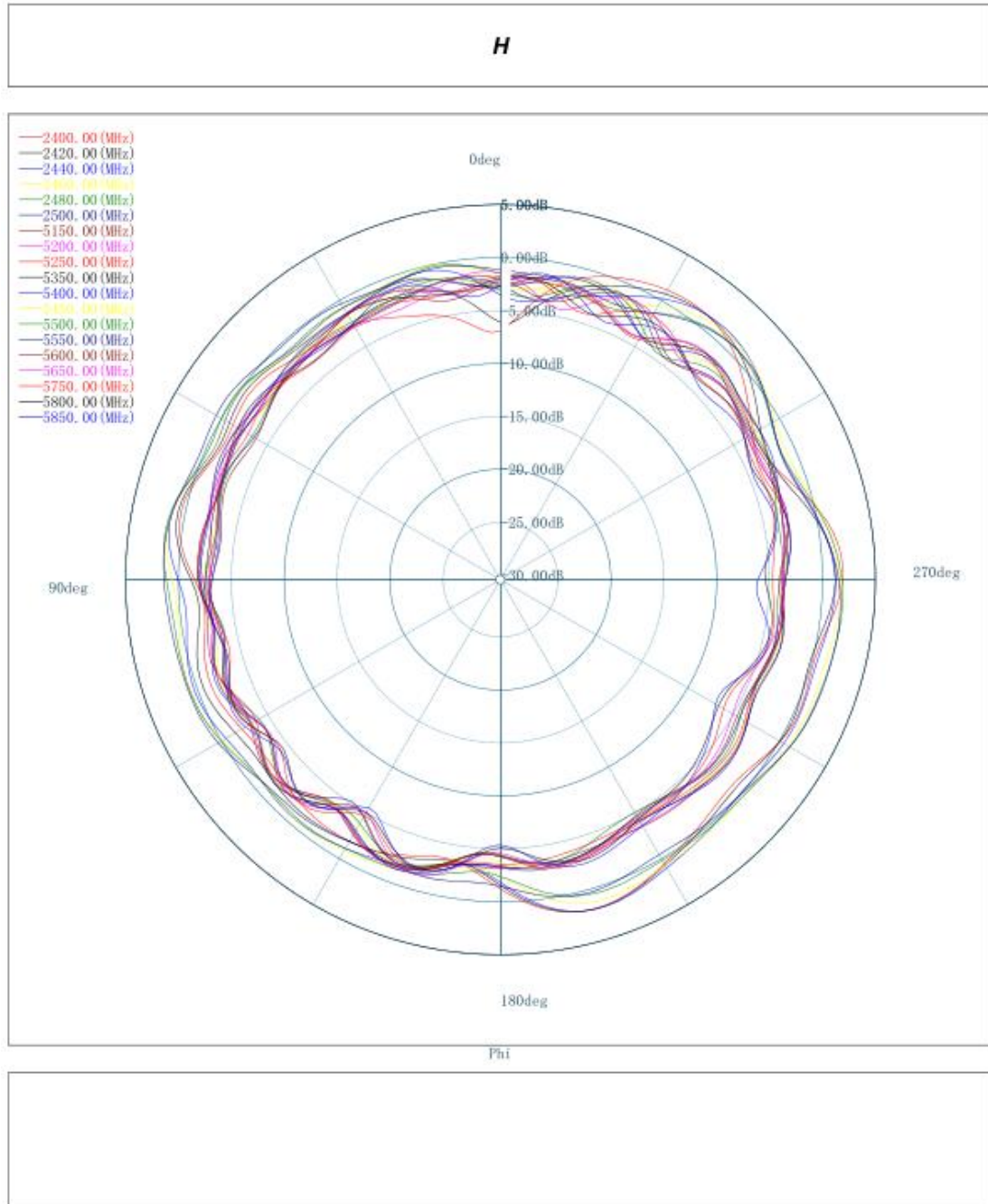
Freq/MHz	2400	2500	5150	5750	5500
VSWR	1.6	1.5	1.7	2.0	1.5

5.2 Smith Impedance Chart

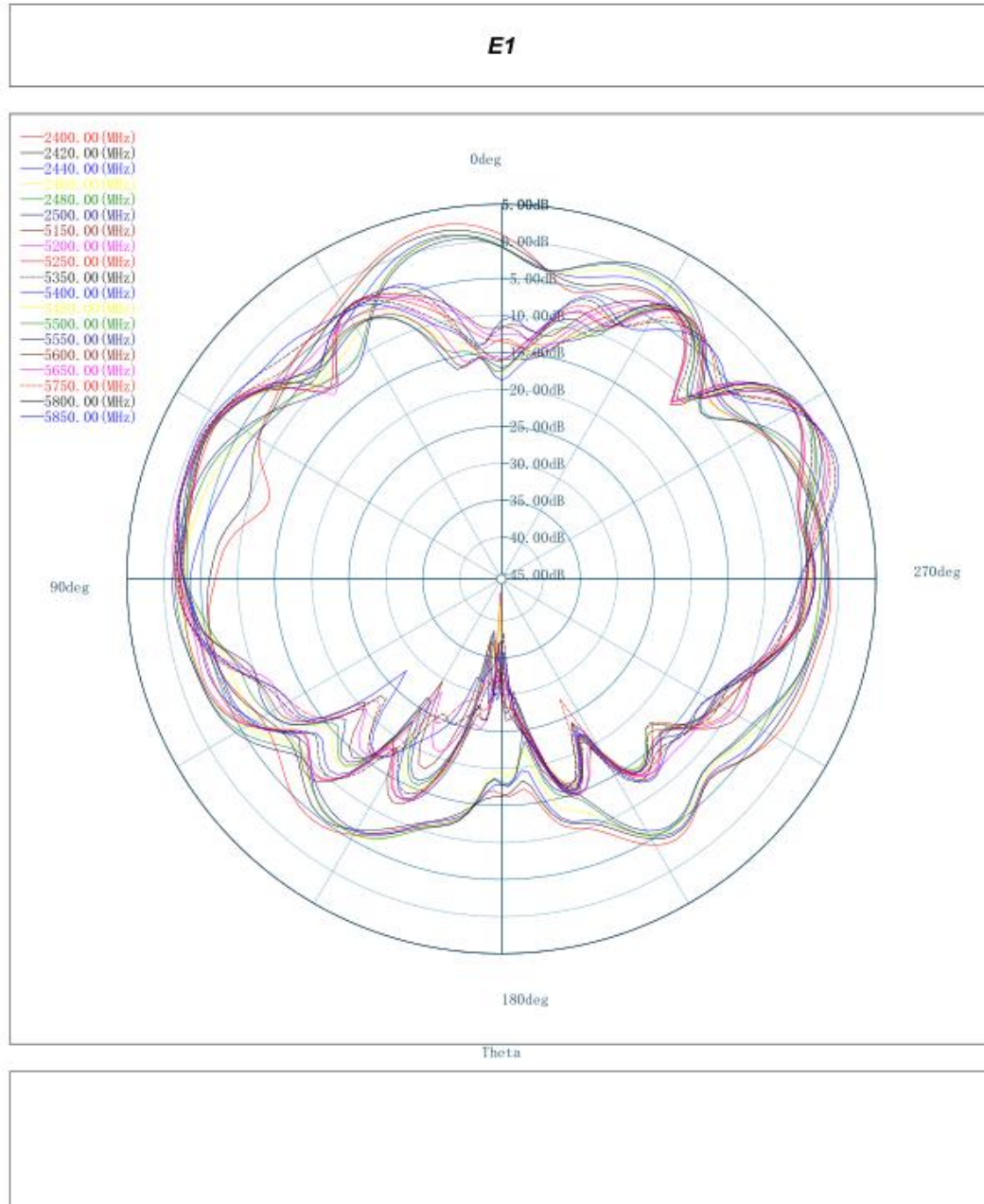


5.3 Antenna Pattern

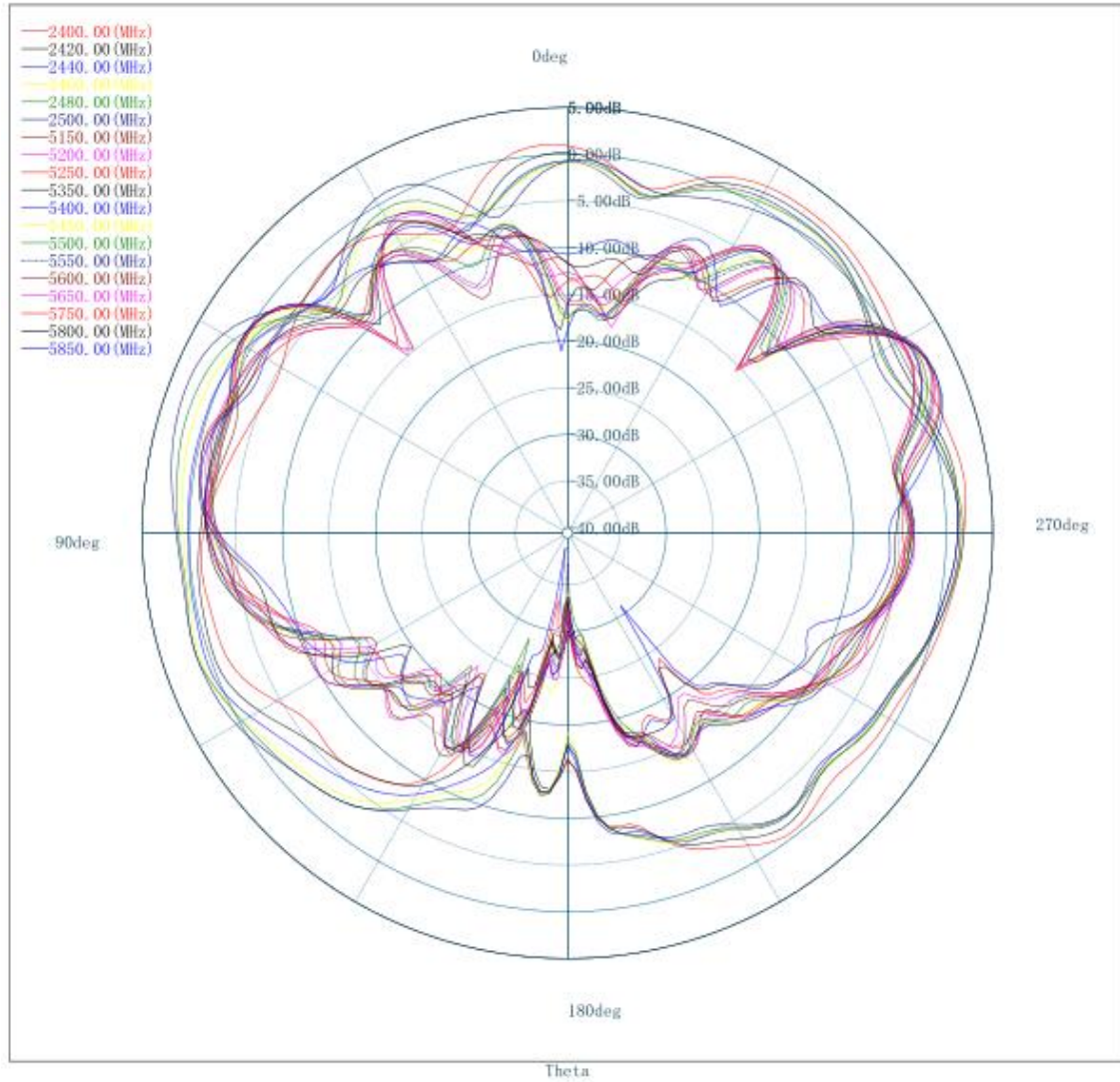
5.3.1 H-plane



5.3.2 E-plane



E2



5.4 Gain and Efficiency

Frequency [Hz]	Efficiency	Max Gain [dBi]
2400000000	60%	3.248777474
2420000000	59%	3.169497074
2440000000	62%	3.141258185
2460000000	63%	3.43057956
2480000000	63%	3.473357089
2500000000	63%	3.31476364
5150000000	33%	1.979216716
5200000000	33%	1.914703373
5250000000	31%	1.713651987
5350000000	34%	2.00990969
5400000000	35%	2.336678544
5450000000	33%	2.314967537
5500000000	32%	2.255422832
5550000000	34%	2.751228932
5600000000	35%	2.743878555
5650000000	36%	2.990521187
5750000000	35%	2.712747234
5800000000	37%	2.942833317
5850000000	38%	3.040220917

6 Environmental Treatment Recommendations

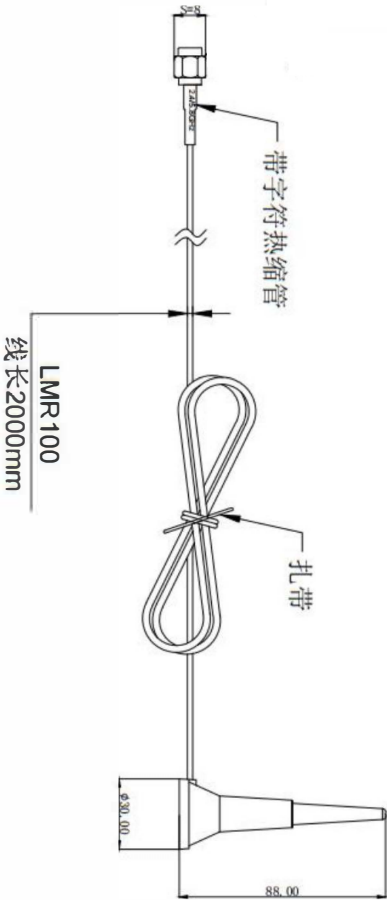
The environment does not need to be processed.

7 Impedance Matching Requirement

The matching circuit remains unchanged

8 Antenna Profile

2.4G&5.8G



Notes:

- 1. 无外观不良
- 2. 带*号尺寸为重点尺寸.
- 3. 所有涉及材料和加工工艺均要符合ROHS要求.
- 4. 阻抗 50Ω

PROJECTION		名称: 天线	绘图: ZLX
UNLESS OTHERWISE SPECIFIED		料号: 13B008Q	审核:
DIMENSIONS ARE IN mm		版本: T:A	核准:
GENERAL TOLERANCE:		材质:	单位: mm
X ±0.20		表面处理:	比例: 1:1
XX ±0.10		颜色:	日期: 2023.09.13
ANGULAR Δ ±0.5°			