

2.4G 2.8x9.95MM Antenna Testing Report

Fangge Technology Co.

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Date: 2023-02-22

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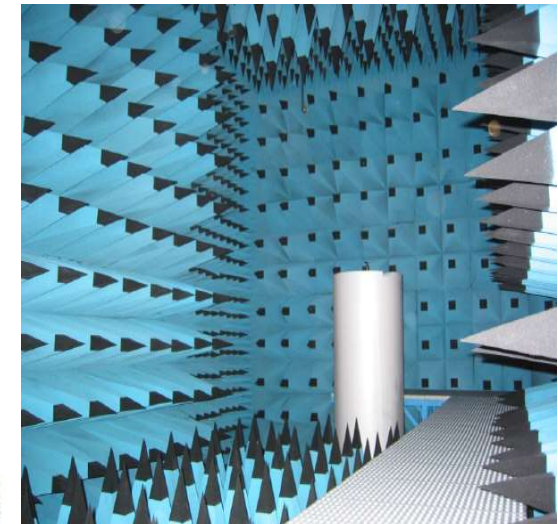
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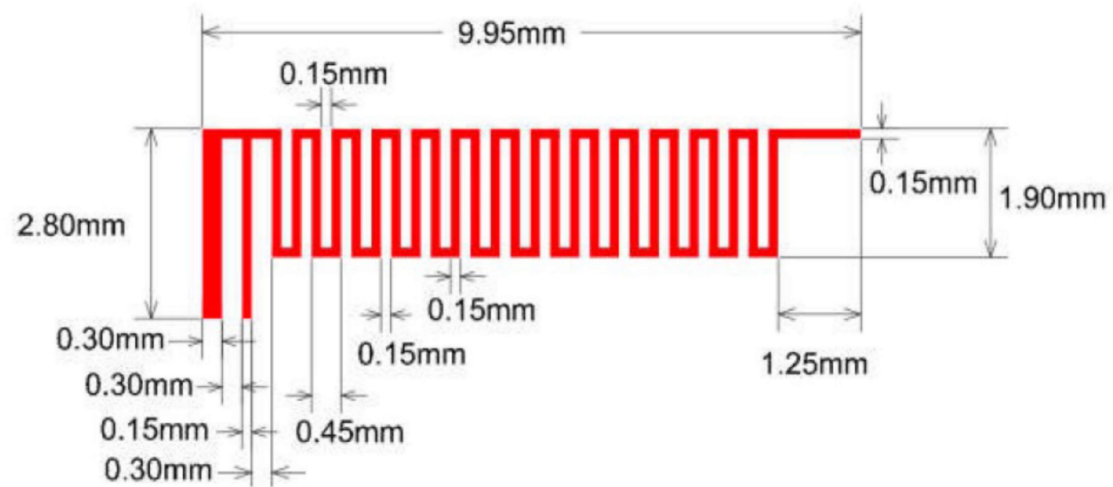
Confidential Data

1. Testing Item & Equipments

	Testing Item	Equipment
1. S Parameter	1. Return Loss 2. S.W.R.	Network Analyzer-AGILENT ENA5071B
2. Coupling Power Test	1. TX Power 2. Sensitivity	1. GSM Tester: R&S CMD 55 2. Shielding Box: R&S CMU-Z11
3. Radiation Pattern & Gain	1. Radiation Pattern 2. Antenna Gain	1. Anechoic Chamber 8x4x4 m (3D) 2. Network Analyzer-AGILENT 8753ET



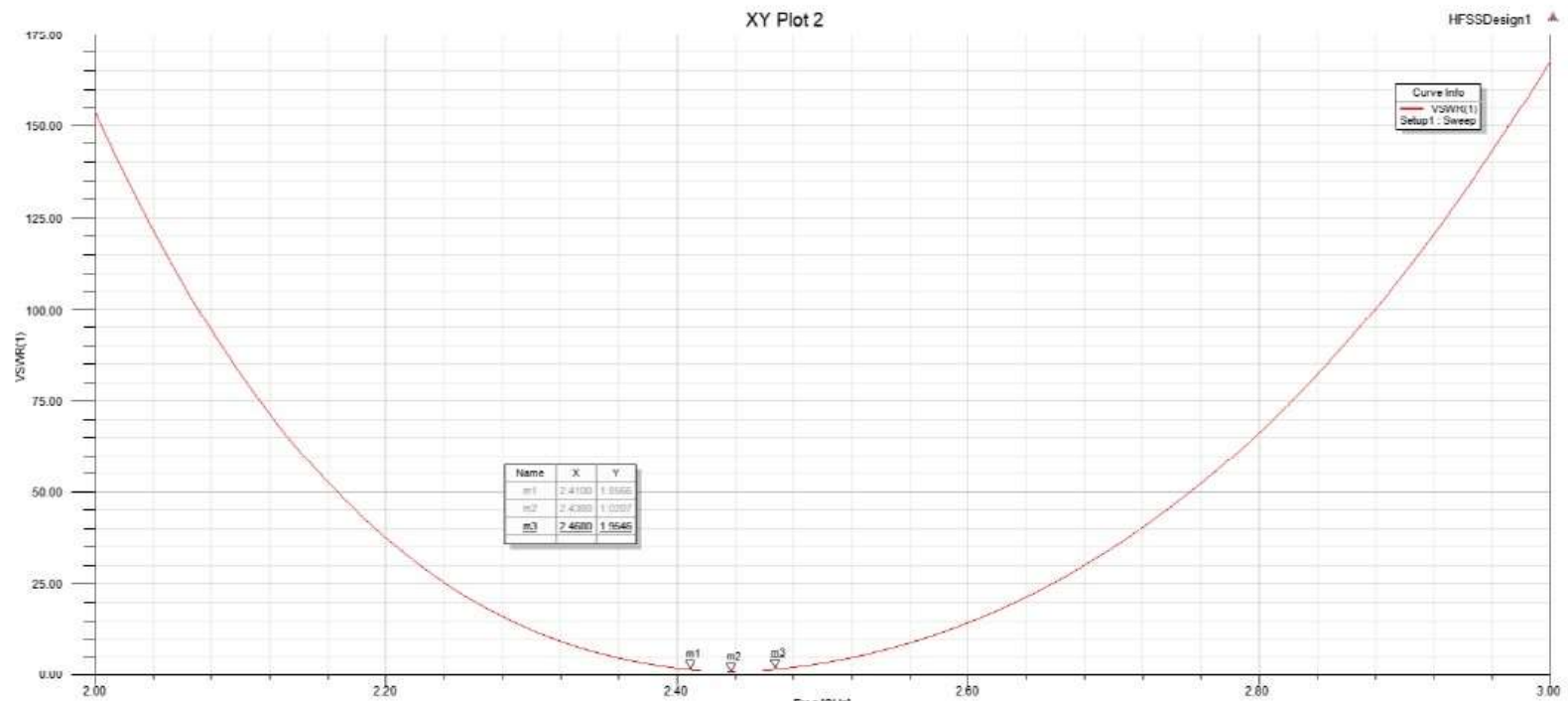
2. Antenna Structure



3. S Parameter Test

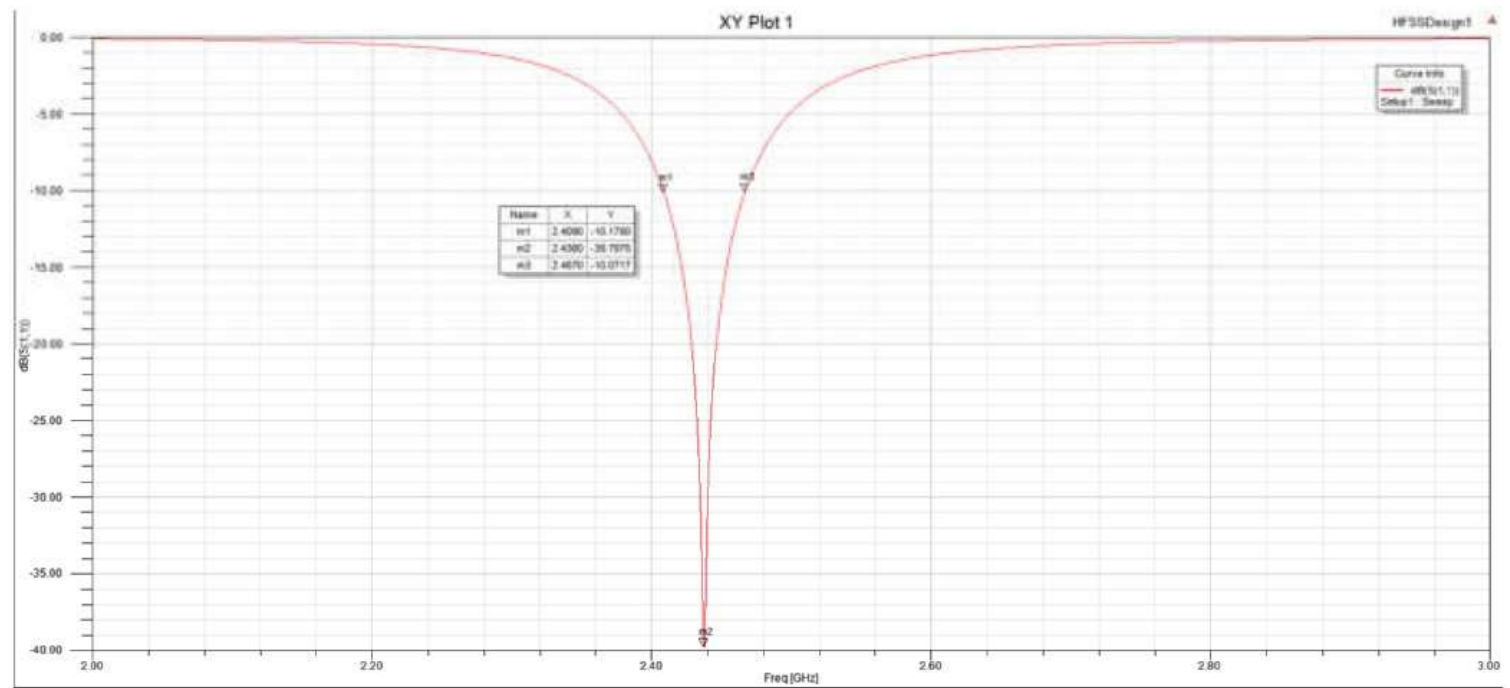
No.1 SWR

中心频点 VSWR: 1.02@2.438GHz



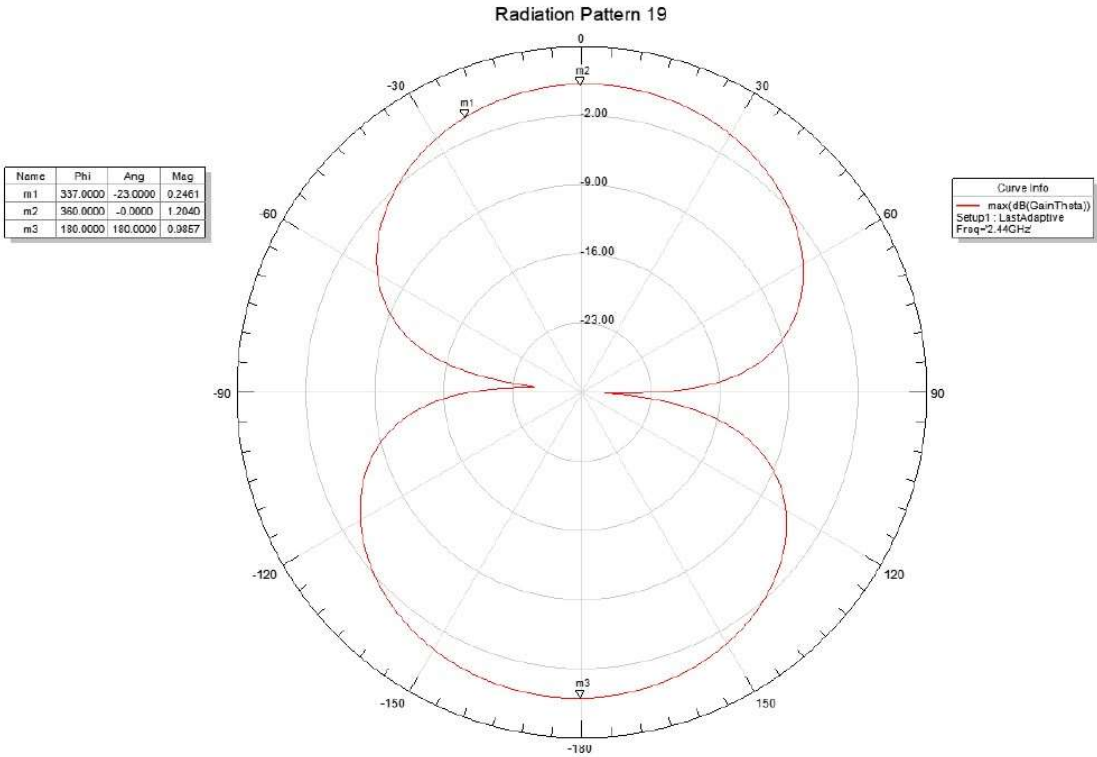
No.2 S11

中心频带 S11: -39.8dB@2.438GHz



No.3

E 面:



4. Gain Test Results

A. Electrical Characteristics	
Frequency （频率范围）	2400 ~ 2500 MHz
S.W.R. （驻波比）	<= 2.0
Antenna Gain （增益）	1.3dBi
Polarization （极化方式）	Linear
Impedance （阻抗）	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator （辐射材质）	Cu
Size （线材类型）	2.8*9.95mm
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year