

IPEX4 Antenna Testing Report

Fangge Technology Co.

Date: 2023-02-16

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Approval: Grant. Lin

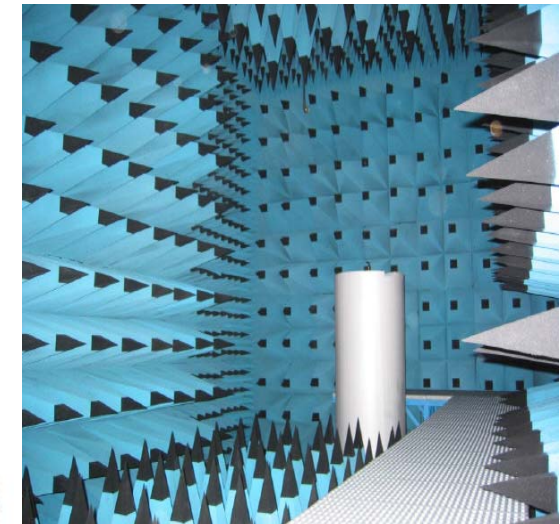
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Confidential Data

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

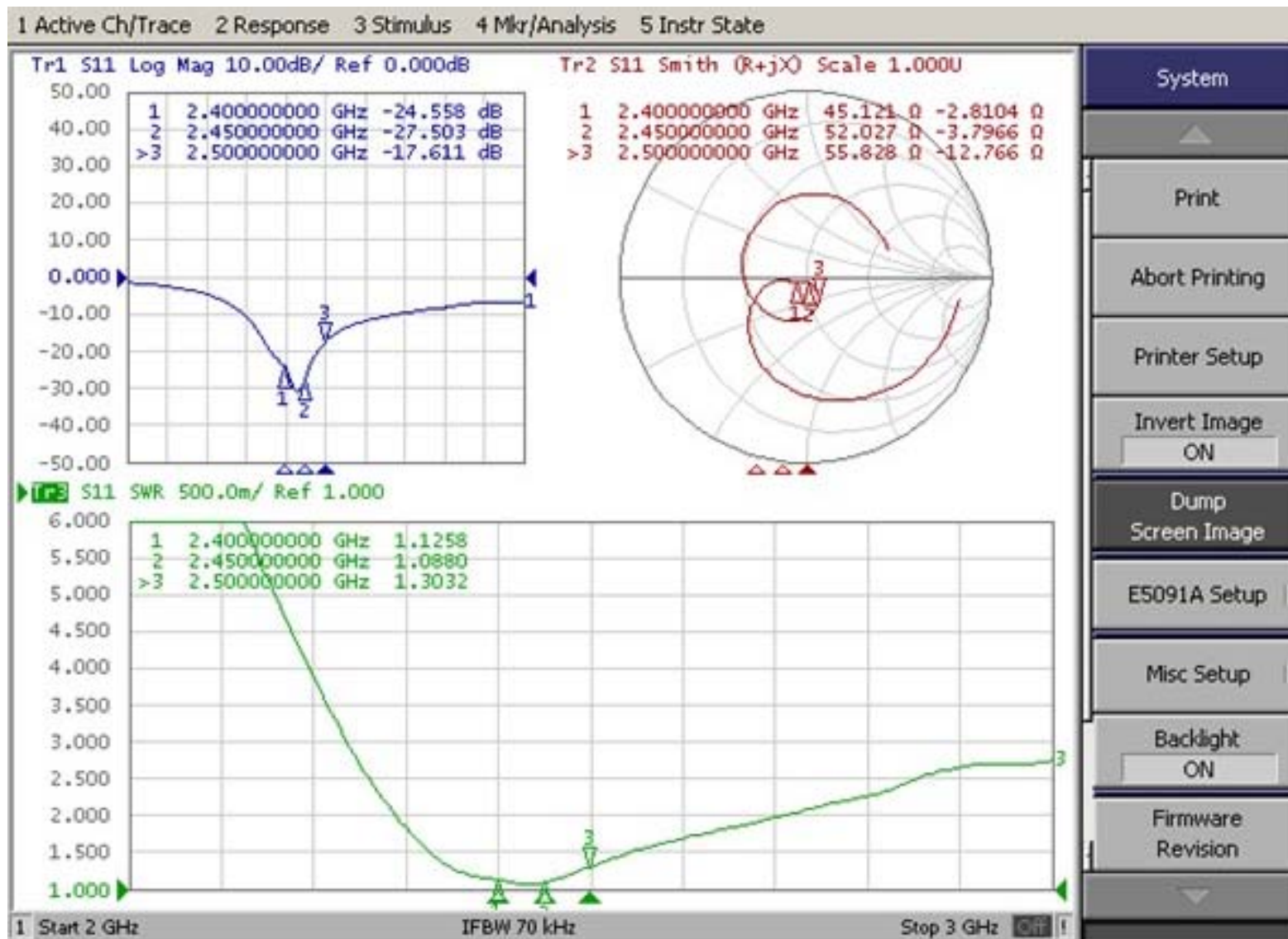


2. Antenna Structure



3. S Parameter Test

No.1



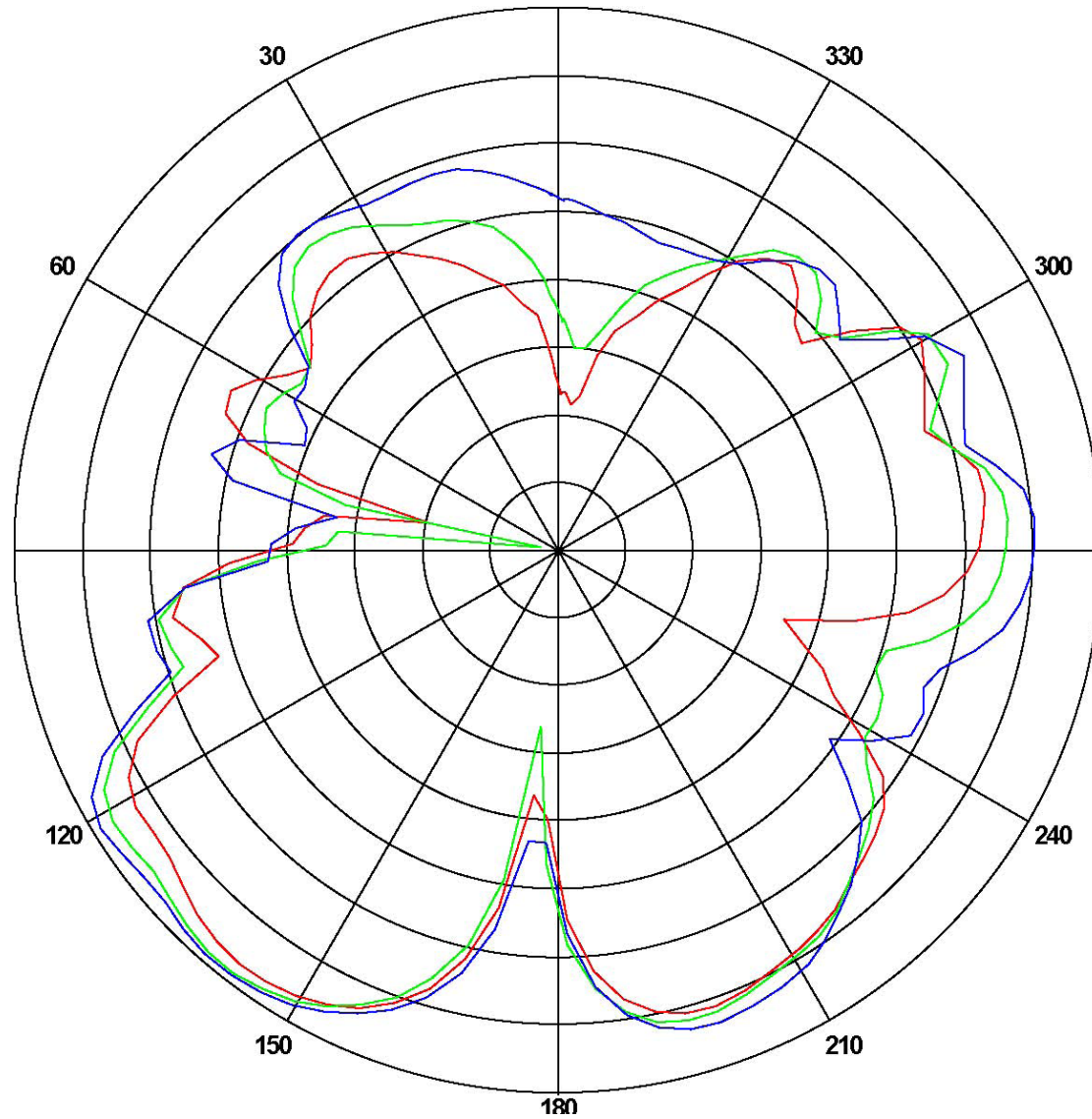
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2400 MHz 2450 MHz 2500 MHz

Power (dBm)

Max: 0 Min: -40 Scale: 5/div

Frequency (MHz)	Gain(dB)		
	Max	Min	Avg
2400	1.26174	-30.0801	-7.18716
2450	1.501802	-36.5604	-7.48023
2500	0.985582	-22.0315	-6.59127



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4. Gain Test Results

A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
S.W.R.	<= 2.0
Antenna Gain	1.5dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	RG-0.81 Length: 100mm
Connector Type	I-pex 4 / MHF 4
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

