



Antenna Specifications

CUSTOMER		SHENZHEN GIEC DIGITAL CO.,LTD.	
CS P/N		LSP-902C	
MATERIAL CODE			
JS P/N		JS-LSP-902C-BT	
Checked by(RF)	Checked by(ME)	Checked by(QA)	Approval led by
Customer Approval			

1. General Description

This document provides the antenna specifications on electric, mechanic and reliability. The testing conditions and related pictures are also included.

1.1 Print Acceptance

Samples and Antenna Specifications are to be sent to customer. When they are approved, the approval form should be completed, signed, and sent back to JINGSONG before further mass production batches can be delivered.

1.2 Coordinate System

The coordinate system for the phone is defined as follows:

- Origin in center of gravity.
- Positive X axis is perpendicular to, and directed from, front plane.
- Positive Y axis is perpendicular to, and directed from, right side plane (as seen from front).
- Positive Z axis is perpendicular to, and directed from, top plane.

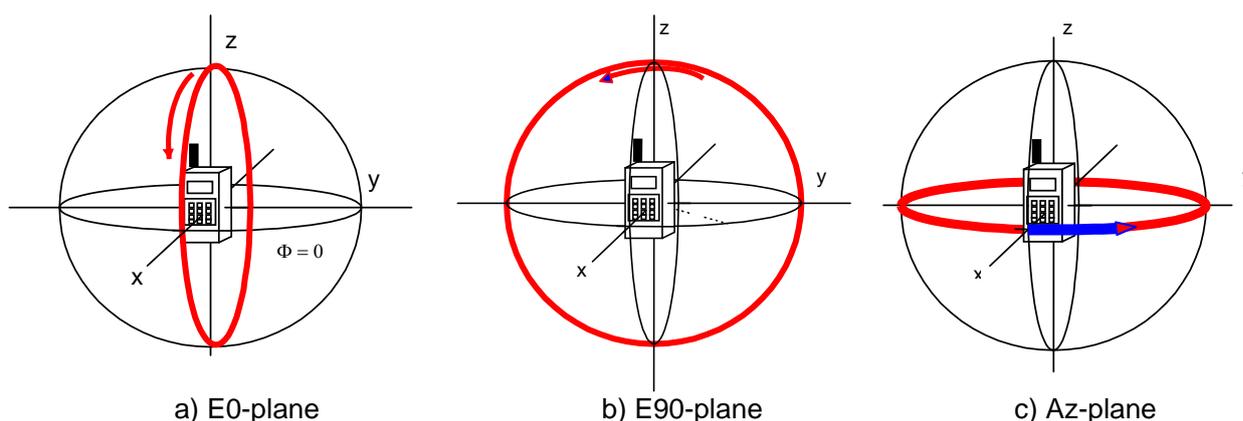
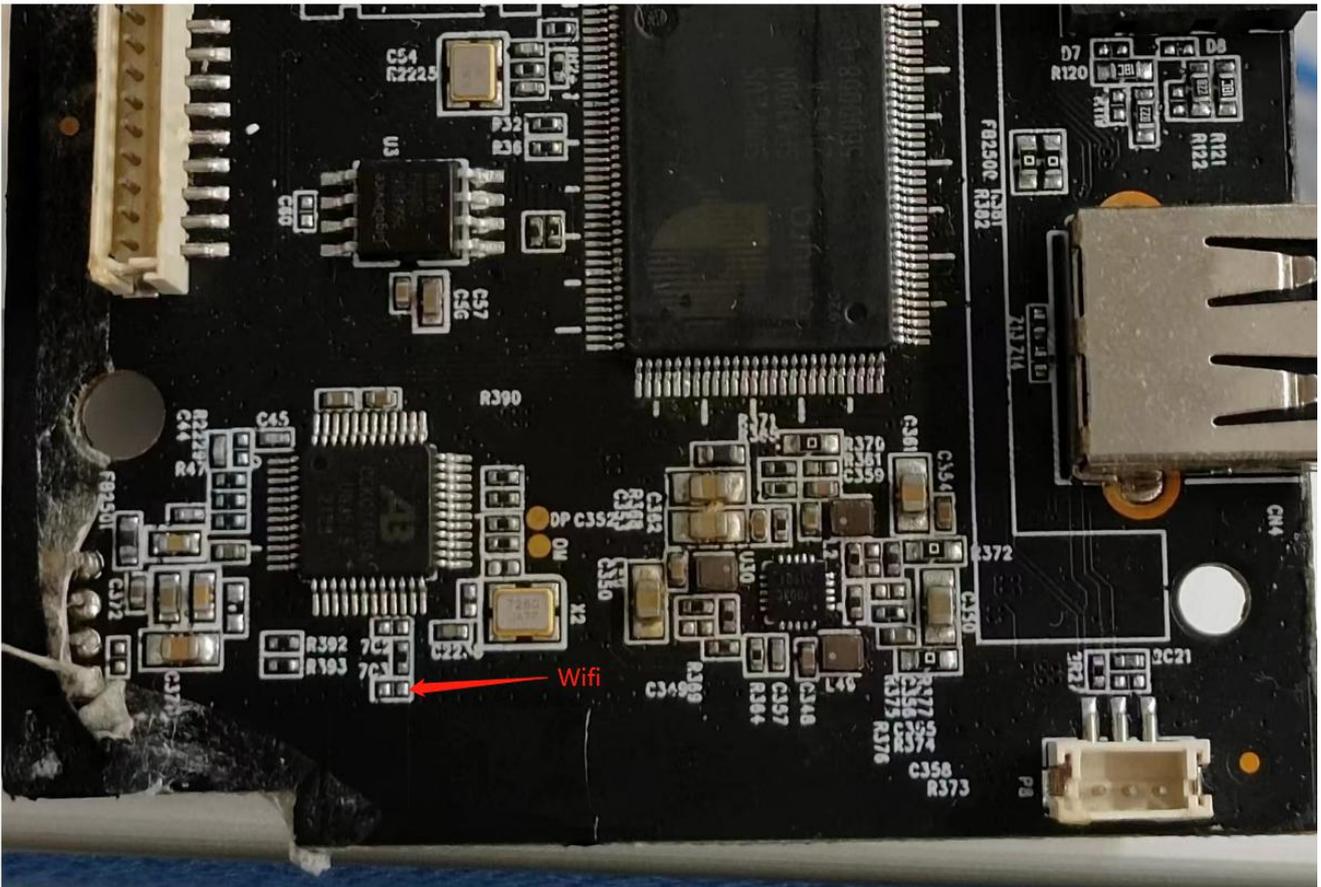


Figure 1-1 The coordinate system for the phone

2. Specifications

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ---- WiFi . Figure 2-1 shows the antenna designed by JS & The fixturing of WIFI



2.1 Frequency Band

Frequency Band	Tx(MHz)/Rx(MHz)
2.4G-WiFi	2400-2500

2.2 Impedance

2.2.1 Nominal

Nominal Impedance(including matching circuit) : 50 ohms

2.2.2 Matching Circuit

The matching circuit is as Figure 2-2.

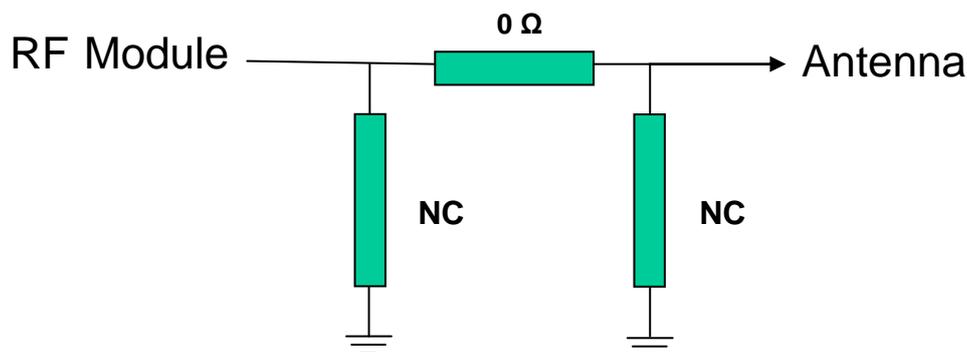


Figure 2-2: Matching circuit

2.3 Active Measurements

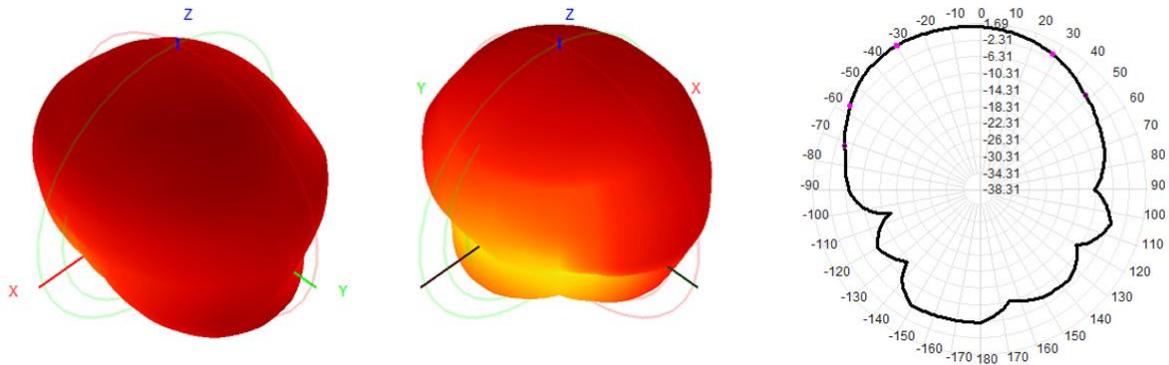
2.3.1 Active Measurements Data

Total Radiated Power (TRP) and Total Isotropic Sensitivity (TIS) of the handsets with antenna are tested in the antenna chambers .

Chamber Test Data

Fre.(Mhz)	Efficiency(%)	Gain(dBi)
2400	45.6	1.14
2410	46.7	1.25
2420	48.7	1.53
2430	48.6	1.69
2440	46.8	1.65
2450	51.3	1.44
2460	52.4	1.75
2470	53.4	1.35
2480	52.6	1.65

Radiation Pattern

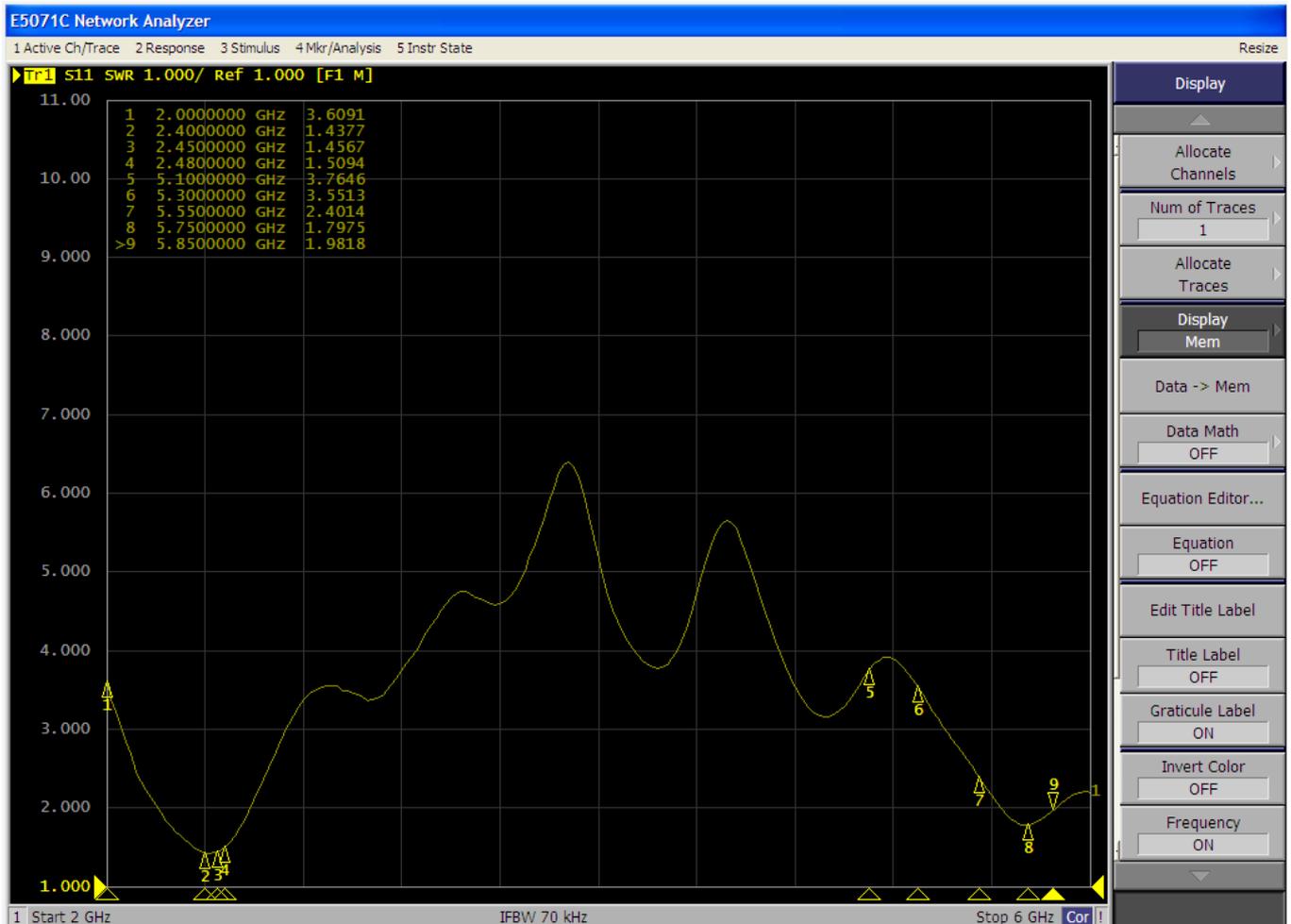




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standing-wave ratio (SWR)



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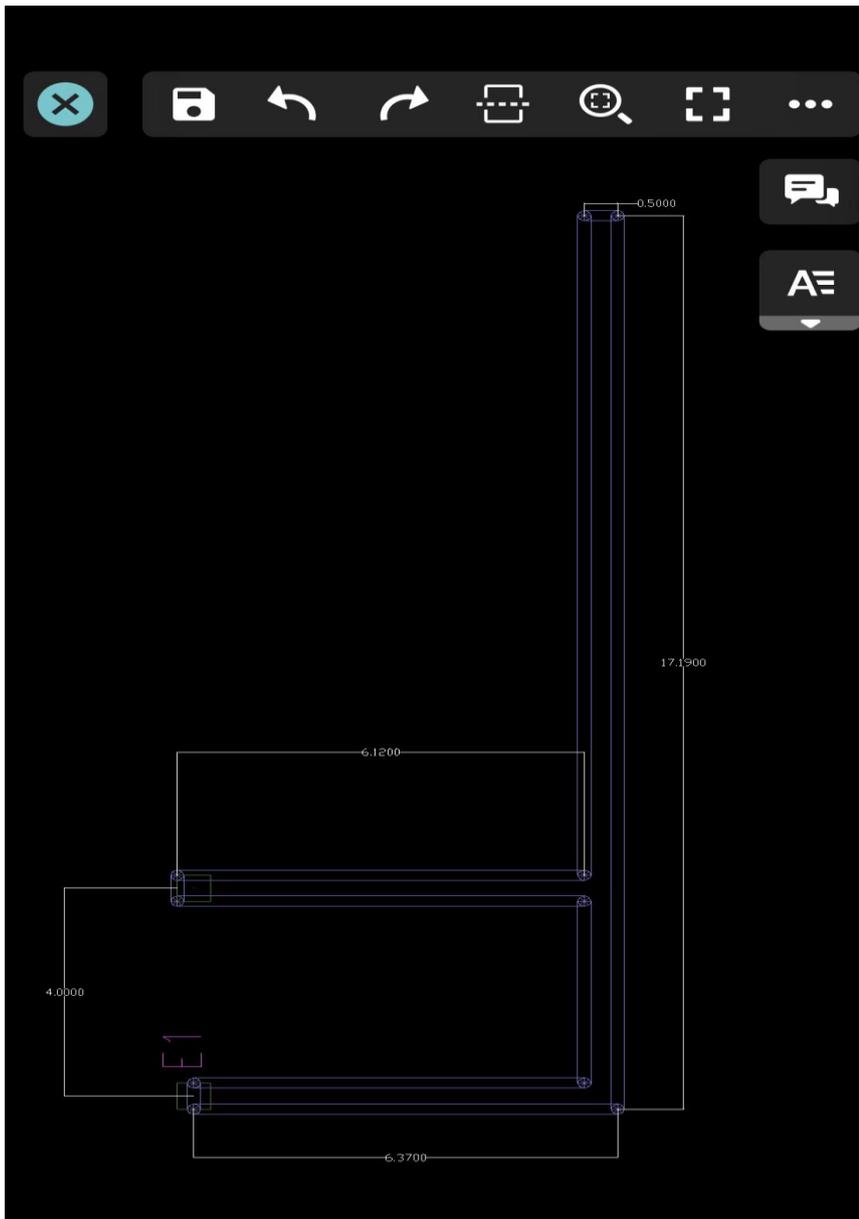


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3. Mechanical Properties

3.1 Specifications Drawings



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4. Environmental Characteristic

Test Item	Test description
1. Low Temperature	Temp.: -20 °C Time: 24 hours
2. High Temperature	Temp.: 80°C Time: 24 hours
3. Salt Fog	5±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1°C Time:24 hours