

Shenzhen SKYLink Technology Co.,Ltd

Antenna Specification for Approval

Customer Name: Gadget Lab International Co., Ltd.

Product Name: NFC Antenna

Part NO.: CODY BLOCK. NFC

Write By: Damon Cui

Issued Date: 2024.06.27

Customer

R&D Dept	Business Dept	Approved By

SKYLink

R&D Dept	Engineer Dept	Approval

● Specification Summary

A. Electrical Characteristics	
Frequency	13.56MHz
Return Loss	/
Efficiency	/
Peak Gain	/
Impedance	50 Ohm
Polarization	Line
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Cable Type	/
Connector Type	/
Dimension	At Attachment
Heat-durability	280±5℃, 10sec.
C. Environmental Characteristics	
Operation Temperature	- 20 °C ~ + 80 °C
Storage Temperature	- 30 °C ~ + 85 °C

● Test Equipment & Conditions

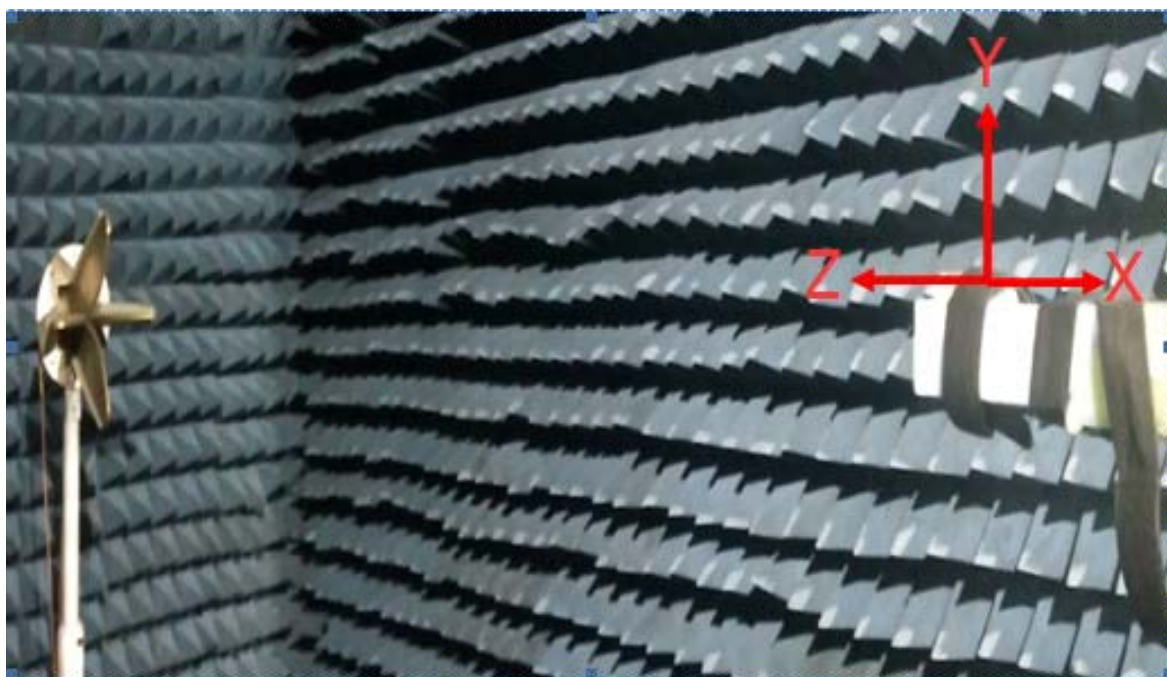
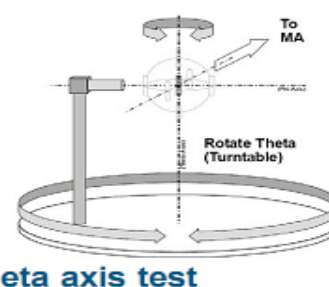
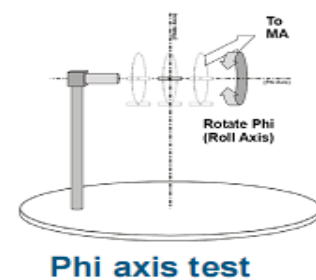
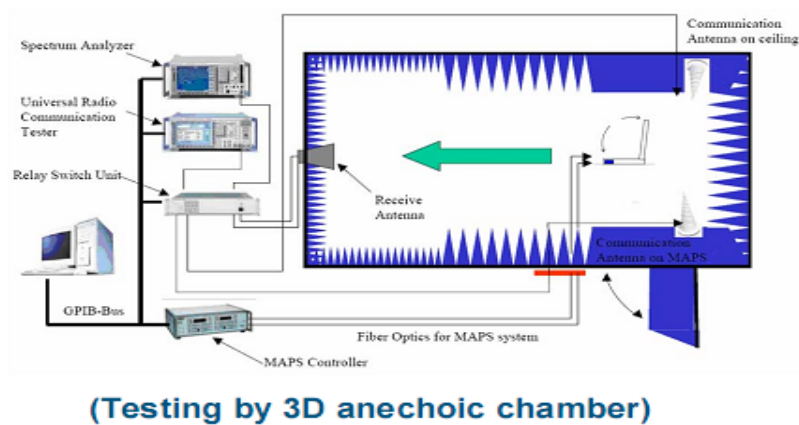
1. Network Analyzers :

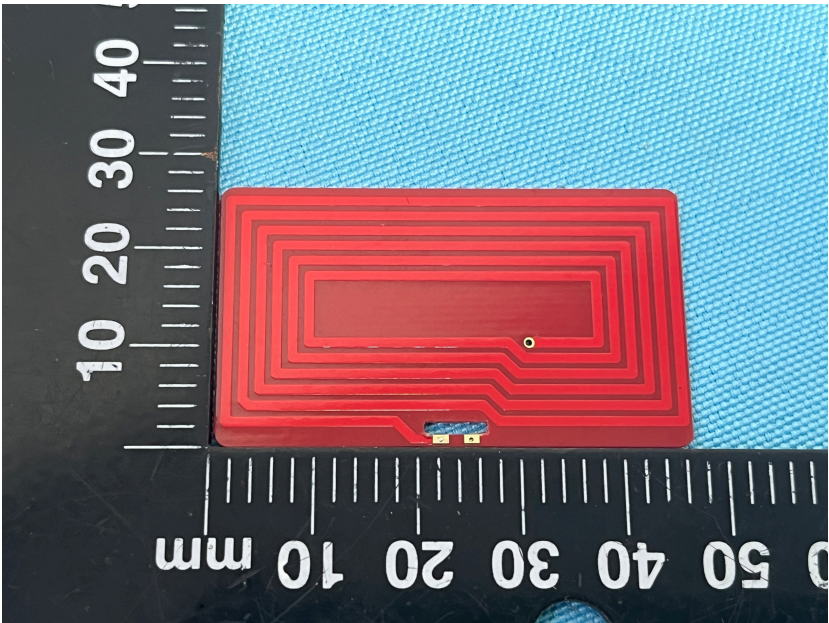
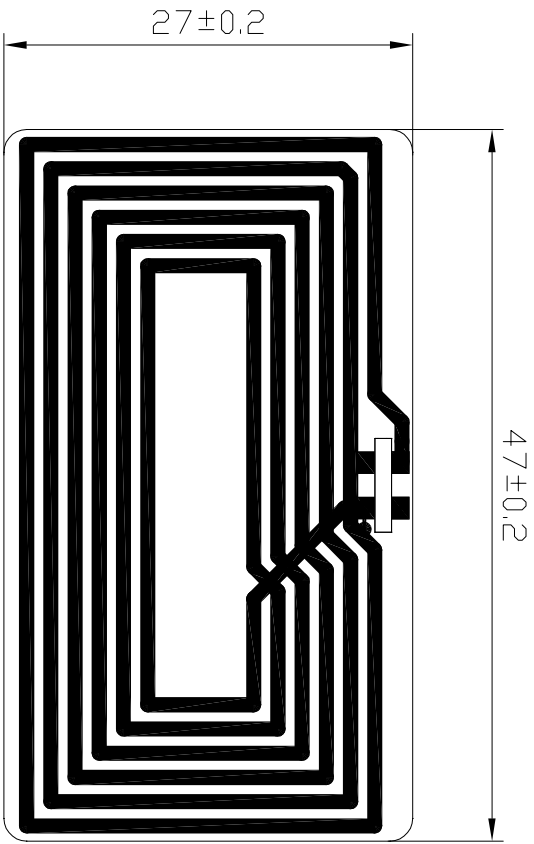
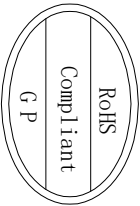
Agilent 8753D 5071B

Communications Test Set:

Agilent E5515C CMW500

2. 3D Chamber Test System





1	2	3	4	5	6	7	8
A				A			
RoHS Compliant G.P.							
B				B			
C				C			
D				D			
Rev				Rev			
1				1			
Description				Description			
A				A			
New drawing				New drawing			
Date				Date			
Remark				Remark			
Location				Location			
40~				40~			
30~40				30~40			
18~30				18~30			
10~18				10~18			
0~10				0~10			
Third Angle				Third Angle			
Project				Project			
Part Name				Part Name			
Part No.				Part No.			
Material				Material			
DWG No.				DWG No.			
Date				Date			
Designed by				Designed by			
Checked by				Checked by			
Approved by				Approved by			
Unit				Unit			
mm				mm			
Scale				Scale			
1:1				1:1			
Rev				Rev			
A				A			

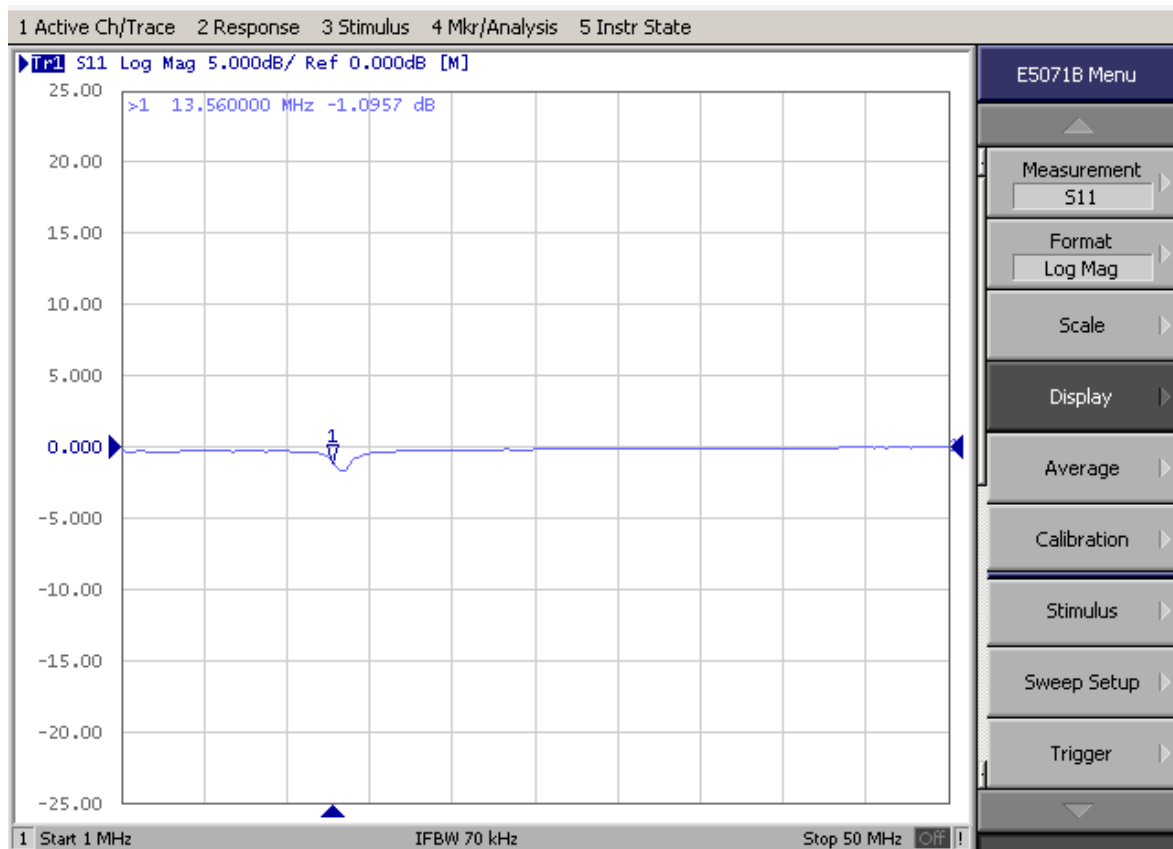
SHEN ZHEN SKYLINK CO., LTD

2024-06-27

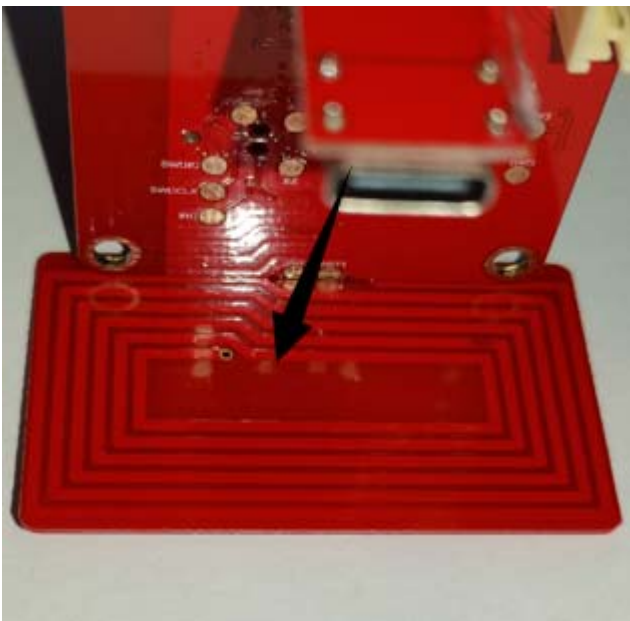
MD

RF

◆ Return Loss



◆ Antenna Picture



◆ Reliability Test

Test Item		Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	Temperature: -30℃, Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-down the temp. to -30℃ in one hour, store antenna for 44 hours; step-up temp to 25℃,test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2	High Temp./High Humid Storage Test	Temperature: 85℃ Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-up the temp. to 80℃ and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25℃,test antenna after 2 hours.	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
3	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: $35 \pm 2^{\circ}\text{C}$ Humidity: 85% NaCl salt spray :5 ± 1 %.PH value :6.5~7.2 Test time:24hours	Salt-Spray Tester	No color change No appear rusting	PASS