

		QBIC Technology Co., Ltd. Component Approval Sheet	
Part Number: KXNFCBLEANTJ1		Brand / Mfg.: JOYMAX	
		Mfg. No.: IBF-A016MPXX-W005	
Description: ANTENNA PCB 16.5 x 7[mm] for BLE/Omnikey TD-0360 /JOYMAX			
Spec: ANT Size 16.5 x 7[mm] + Cable 45 mm with IPEX MHF1			
Classification: ☒ First Source ☐ Second Source – (☐ Phase out, ☐ Cost down, ☐ Shortage, ☐ Reduce L/T, ☐ Other:) ☐ Control Run requested (Second Source for CPU, RAM, Flash, Power Supplier, Modem module, LAN Transformer, Crystal, and PCB) ☐ Safety or EMI Component (Power Supplier, Power Cord, the components in primary site and EMI/ESD components and the parts list in the safety report)f			
Others relation document : RoHS Test report (CANEC2227563616-PCB KB-6160, SHAEC23019069713_1-Silver plated copper wire, A2230173541101001E-Tinned plated copper wire, SHAEC23020095531-Cable Isolater - NOFLON FEP, SHAEC23021984701-Cable Outside Isolater - NOFLON FEP, SHAEC23002167225-Cable Outside Isolater Color Master Batch, ETR23803657M01-COPPER ALLOY C5210 for IPEX, EKR23400747-PBT / 310NF ED3002 for IPEX, SGACP230000388-Au Plated for IPEX, SGACP230000389-Ni Plated for IPEX) RoHS CoC Declaration form JOYMAX Jan2024 & REACH CoC Declaration form JOYMAX Jan2024 Refer to wiki page: KXNFCBLEANTJ1			
Where used: TD-0360		Sample Rev: NA	
Procurement: Doris Chiu 1/18/2024			
☒ Component Engineer: Kevin Chu 4/9/2024		Design Engineer: Kevin Chu 4/9/2024	
☒ Safety/EMI Engineer: Tommy Tang 4/9/2024		Approval: Peter Lin 4/9/2024	
(A) Inspection Record:			
#	Inspection Contents	Inspection Result	Remark
1.	Drawing	Passed	Page 4
2.	V.S.W.R testing	Passed	Page 5
3.	Pattern	Passed	Page 6
4.	Gain and Efficiency	Passed	Page 7 - 8
5.	Fit on TD-0360	Passed	
6.			
7.			
8.			
9.			
(B) Conclusion: ☒ Approved ☐ Conditional Approved ☐ w/o sample ☐ Reject ☐ Satisfy RoHS and PFOS, but it doesn't meet QBIC Standard Note: Sample Differences Statement as following.			
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承認書

APPROVAL SHEET

CUSTOMER: 和暢科技股份有限公司

CUSTOMER MODEL NO.: KXNFCBLEANTJ1

JOYMAX MODEL NO.: IBF-A016MPXX-W005

DESCRIPTION: #A016 Antenna

REV.: A

DATE: 2023/12/19

Customer Approval

Joymax Approval



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<http://www.joymax.com.tw>

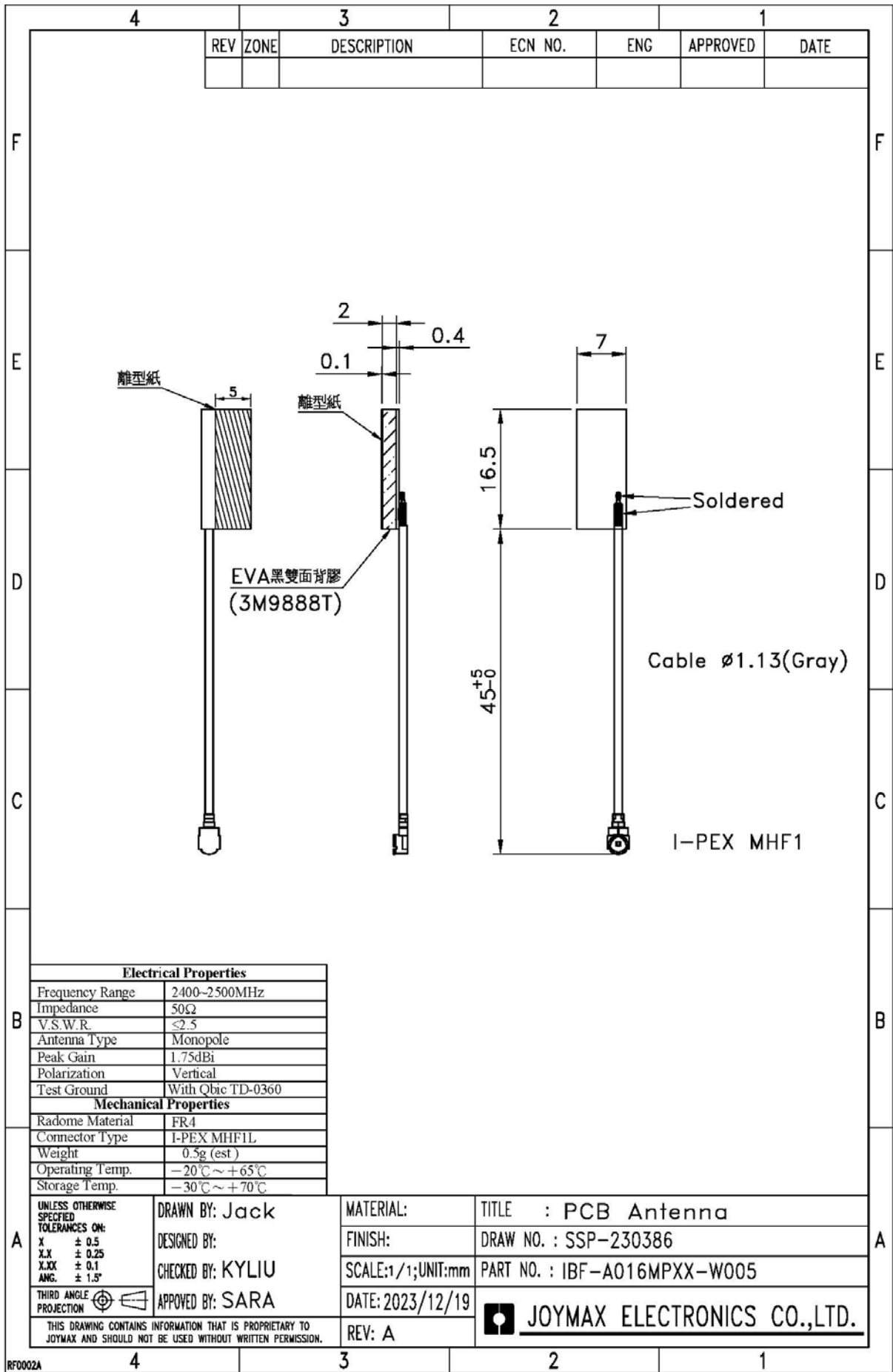
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2. Test Condition & Report		
2.1 V.S.W.R	-----	4
2.2 Pattern	-----	5
2.3 Gain and Efficiency	-----	6
3. Package	-----	9

Modification History:

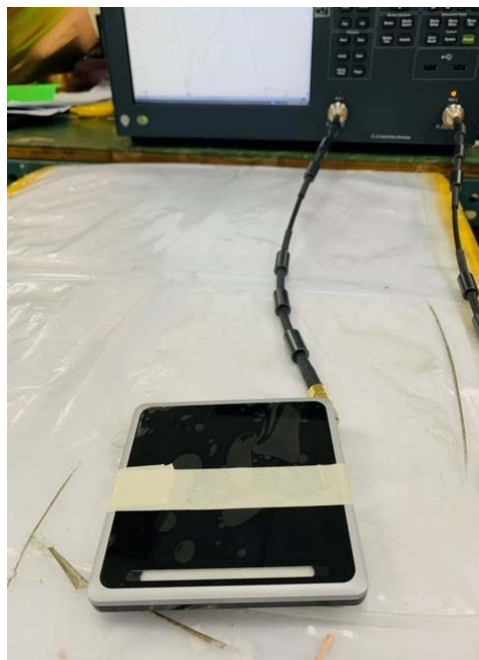
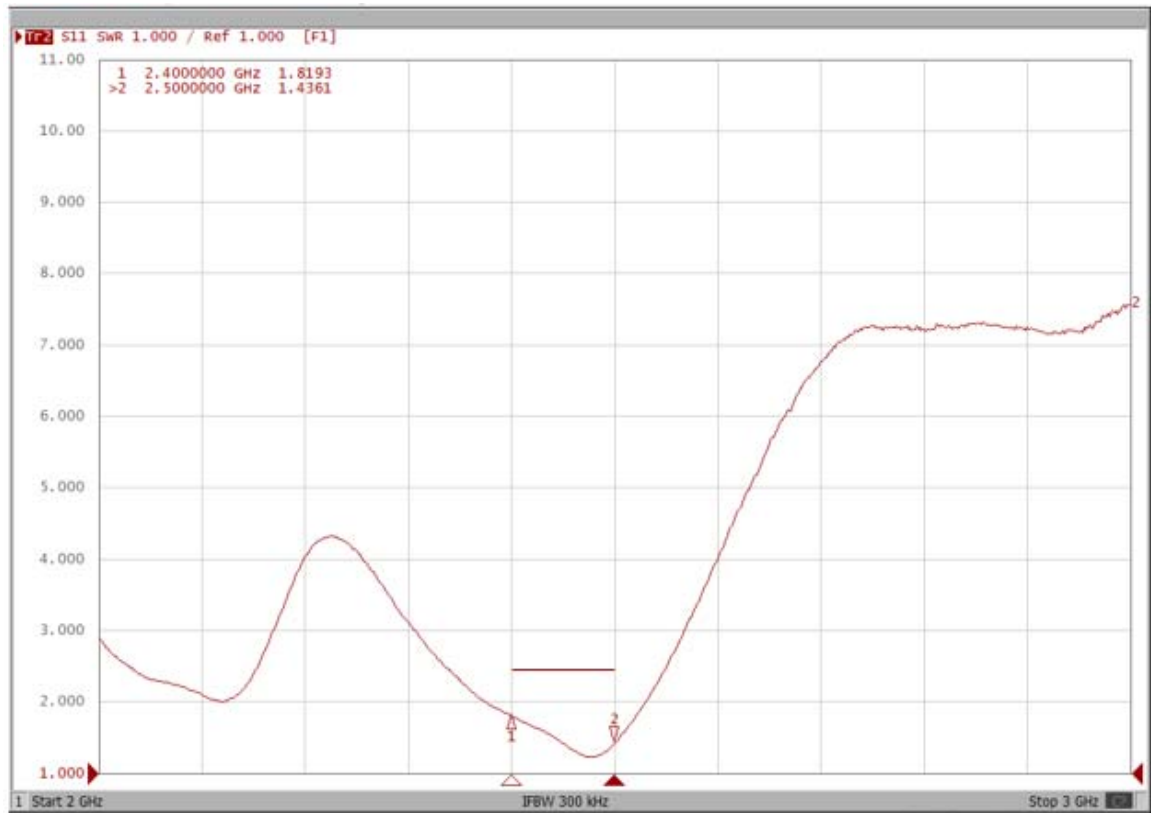
Rev.	Date	Content
A	2023/12/19	

1. Specification & Dimension

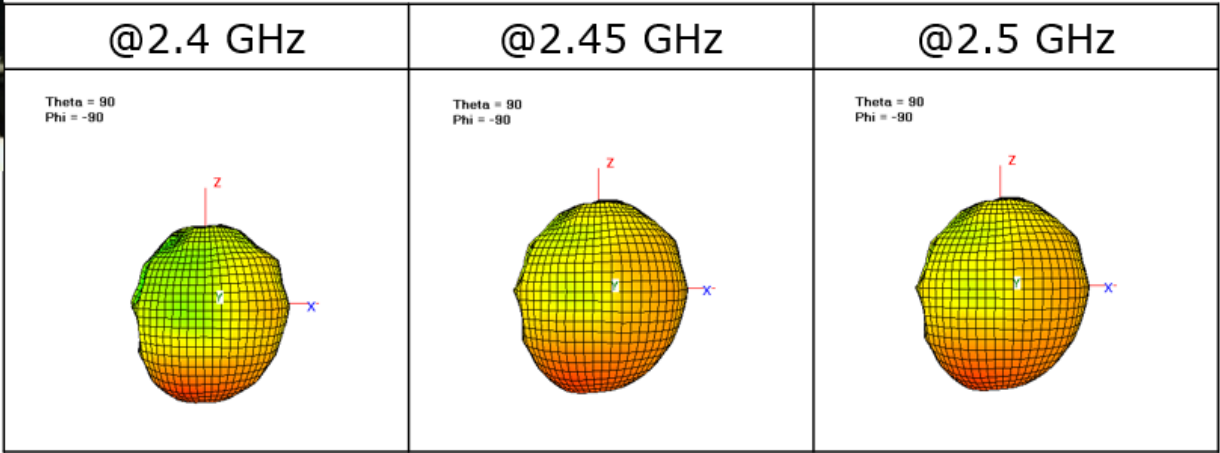


2.Test Condition & Report

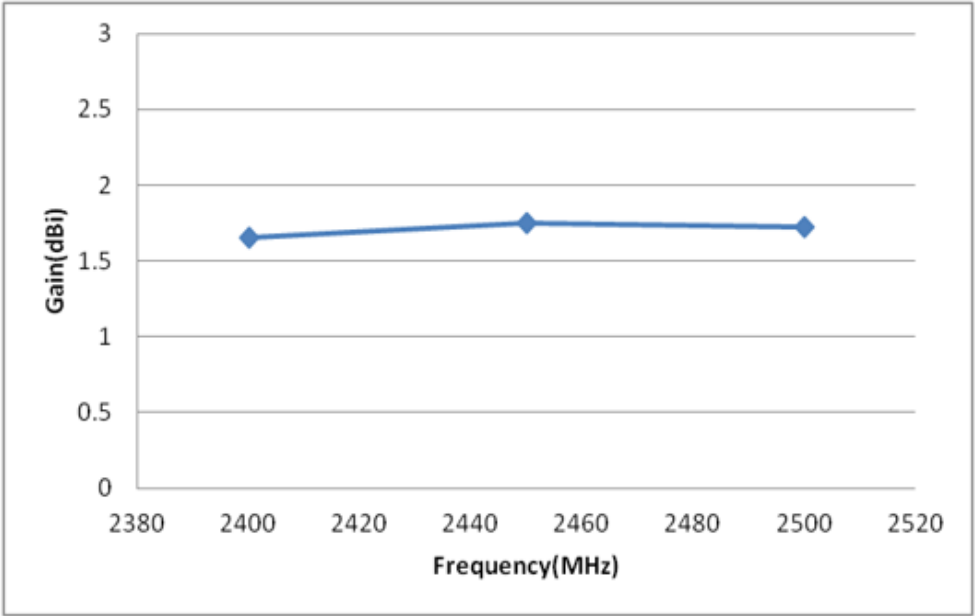
2.1 V.S.W.R



2.2 Pattern

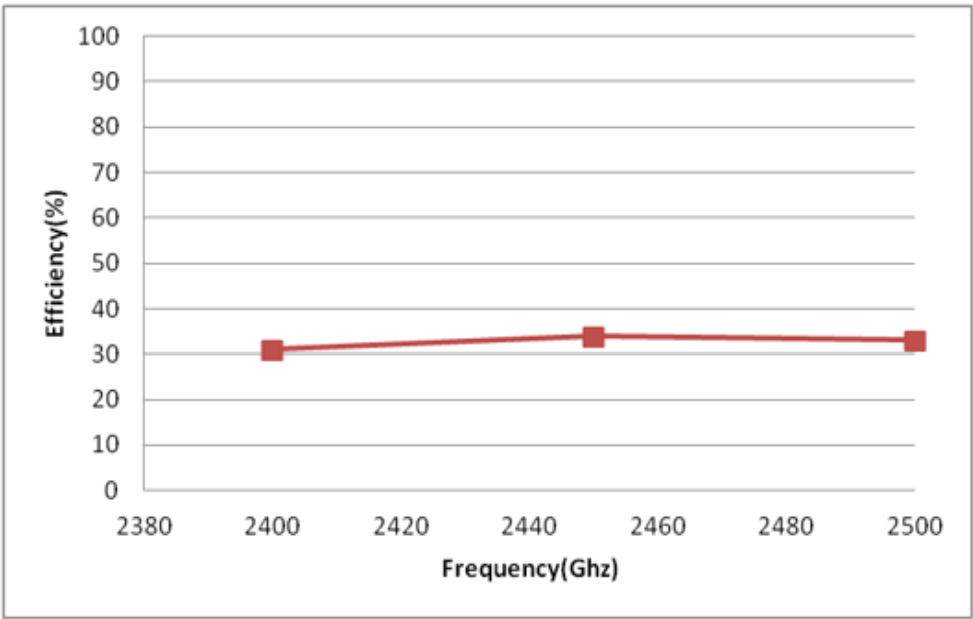


2.3 Gain and Efficiency



Frequency	2.4 GHz	2.45 GHz	2.5 GHz
Gain	1.65	1.75	1.72
模組Gain Spec	2.98		

2.3 Gain and Efficiency



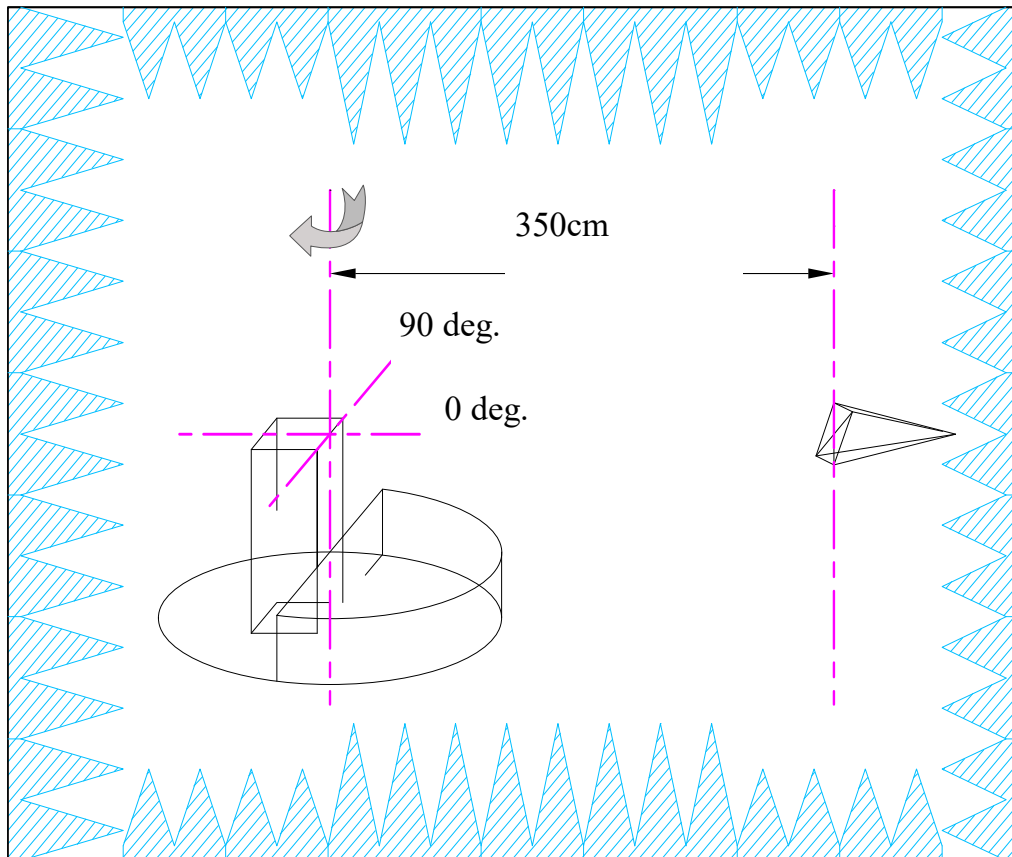
Frequency	2.4 GHz	2.45 GHz	2.5 GHz
Efficiency	31	34	33

Pattern Test Equipment

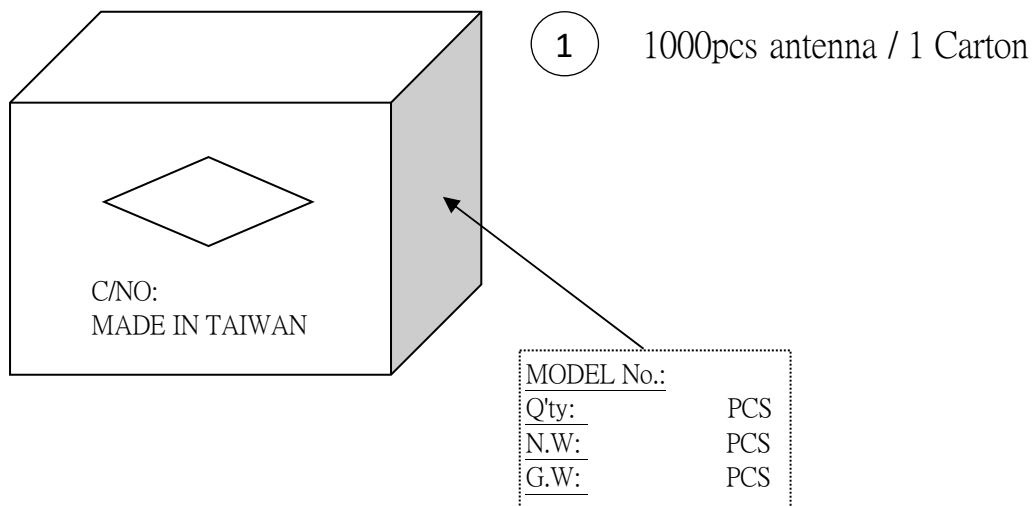
Anechoic chamber: 100MHz~6GHz 8*6*6m (※ 1m Quiet zone at 800MHz)

Source Antenna: ETS-3164 Dual Polarized Horn

Network Analyzer: Agilent E5071B 100kHz~8.5GHz



3. Package



Packing q'ty is for reference only, adjust it based on production packing.