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401EEN002-002E000013000-000

Date: 2015/1/16

<h2>Approval Sheet</h2>

Description : Wlan Antenna,2.4G,RSMA(Plug),Black

Model No: **EEN-105-RSMA**

Part No : **603ANT0059X00**

Received & Approved by

ON____date____month____year



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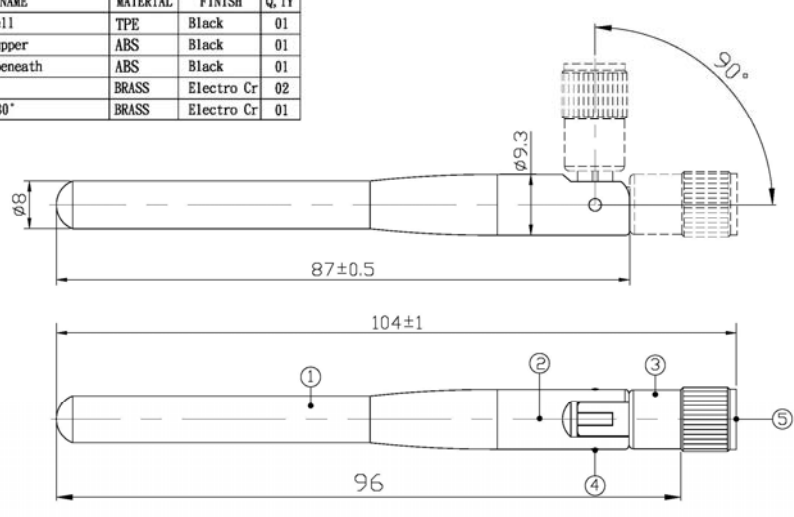
Approved by	Checked by	Issued by	
Sky	Jacky	Lily Chen	

SPECIFICATION

1.Description	Wlan 2.4G Antenna
2.Part Number	EEN-105-RSMA
3.Mechanical Characteristics	
Antenna Cover	TPE+ABS
Antenna Color	Black
Connector	Reverse SMA PLUG
Touch Type	Screw Type
Appearance	See attached drawing
4.Electrical Characteristics	
Operating Frequency	2400MHz~2500MHz
Impedance	50ohm
V.S.W.R	<2.0:1 Max
Gain	3 dBi
Polarization	Linear, vertical
5.Temperature	-40℃ -80℃
6.Humidity	95% @25℃

ELECTRICAL CHARACTERISTICS 電氣特性

ITEM 項目		TEST CONDITION 測試環境	SPECIFICATION 規格
1	RETURN LOSS 反射損耗	Using R/S Network Analyzer 1127.8600K62 to Measure Antenna S11 Return loss Characteristics 使用 R/S 網路分析儀 1127.8600K62 測量天線 S11 之返射損耗參數	See Fig-1
2	VSWR 電壓駐波比	Using R/S Network Analyzer 1127.8600K62 to Measure Antenna S11 VSWR Characteristics 使用 R/S 網路分析儀 1127.8600K62 測量天線 S11 之電壓駐波參數	See Fig-2

		發行日期:	A1.0																															
		修正日期:																																
		受控日期																																
品名: EEN-105-RSMA		客戶: NEXCOM	規格																															
<table><tr><th>NO.</th><th>NAME</th><th>MATERIAL</th><th>FINISH</th><th>Q. TY</th></tr><tr><td>01</td><td>Ant, shell</td><td>TPE</td><td>Black</td><td>01</td></tr><tr><td>02</td><td>Fixed upper</td><td>ABS</td><td>Black</td><td>01</td></tr><tr><td>03</td><td>Fixed beneath</td><td>ABS</td><td>Black</td><td>01</td></tr><tr><td>04</td><td>Rivet</td><td>BRASS</td><td>Electro Cr</td><td>02</td></tr><tr><td>05</td><td>RSMA 180°</td><td>BRASS</td><td>Electro Cr</td><td>01</td></tr></table> 		NO.	NAME	MATERIAL	FINISH	Q. TY	01	Ant, shell	TPE	Black	01	02	Fixed upper	ABS	Black	01	03	Fixed beneath	ABS	Black	01	04	Rivet	BRASS	Electro Cr	02	05	RSMA 180°	BRASS	Electro Cr	01	Operating Frequency : 2400~2500MHz Impedance:50ohm Connector: RSMA Swivel Plug		
NO.	NAME	MATERIAL	FINISH	Q. TY																														
01	Ant, shell	TPE	Black	01																														
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03	Fixed beneath	ABS	Black	01																														
04	Rivet	BRASS	Electro Cr	02																														
05	RSMA 180°	BRASS	Electro Cr	01																														
檢驗項目	品質要求	檢驗方式	檢驗標準																															
外觀	不可有明顯刮傷、破損	目視(亮度 100Lux，正常 視力，視距 30cm，視角 30°~80°)	參照 樣品																															
尺寸	尺寸如示意圖: Ø9.4 × 27 (W) × 87.5/105(H) mm	1. 游標卡尺 2. 捲尺	承認 書																															
機械性能		1. 拉力計 2. 高斯計	承認 書																															
電氣性能	Transmission	1. 網路分析 儀	承認 書																															

Return Loss:

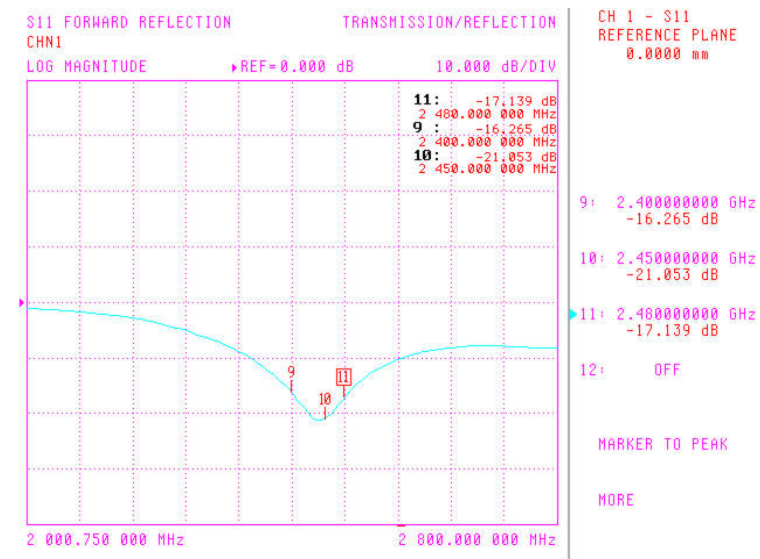


Fig-1

VSWR:

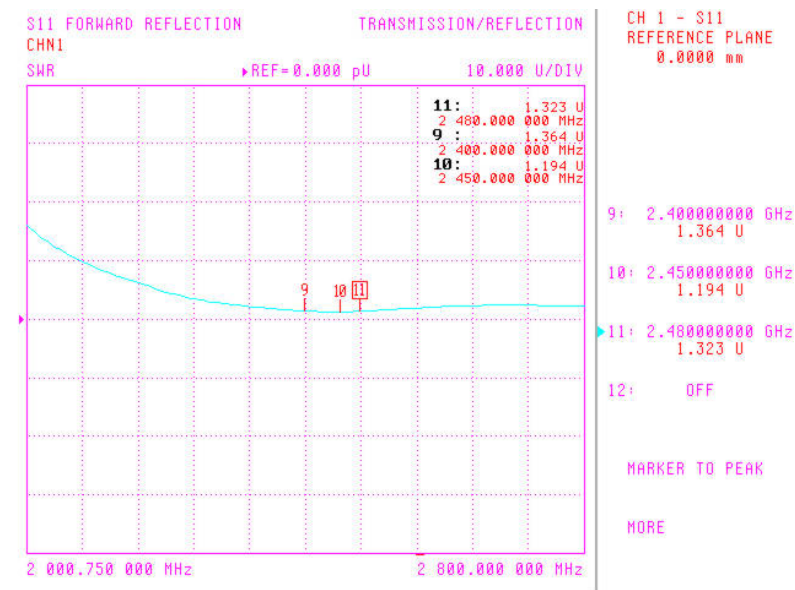


Fig-2

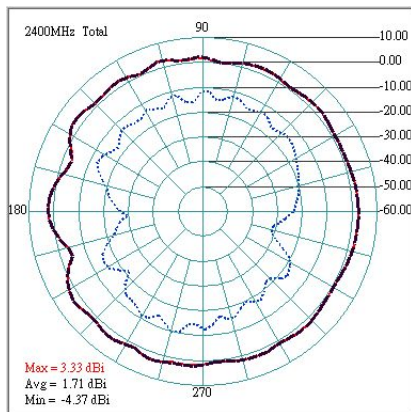
Antenna 2D Gain:

	2400	2450	2480
Ant. Port Input Pwr. (dBm)	0	0	0
Tot. Rad. Pwr. (dBm)	1.7	2.79	2.27
Peak EIRP (dBm)	3.33	4.82	3.82
Directivity (dBi)	1.63	2.02	1.55
Efficiency (dB)	1.7	2.79	2.27
Gain (dBi)	3.33	4.82	3.82
Front/Back Ratio (dB)	1.9	0.18	1.37
Boresight Angle (°)	247	211	103
BeamWidth (°)	180	180	180
+BeamWidth (°)	90	90	90
-BeamWidth (°)	90	90	90
Maximum Power (dBm)	3.33	4.82	3.82
Minimum Power (dBm)	-4.37	-2.72	-4.05
Average Power (dBm)	1.51	2.6	2.09
Max/Min Ratio (dB)	7.7	7.54	7.87
Max/Avg Ratio (dB)	1.63	2.02	1.55
Min/Avg Ratio (dB)	-6.07	-5.51	-6.32
Average Gain (dB)	1.7	2.79	2.27

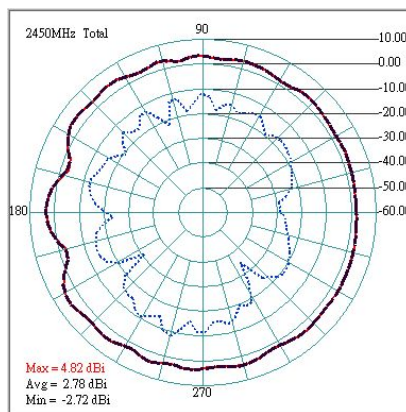
Fig-3

Antenna 2D Pattern:

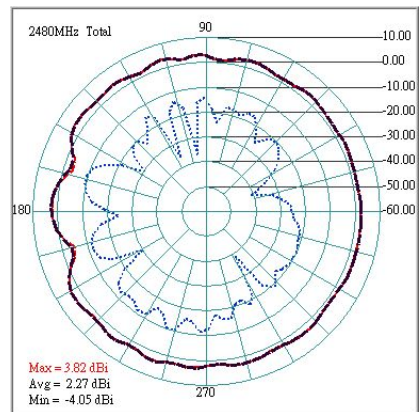
2400MHz



2450MHz



2480MHz



To whom it may concern

Dec. 31, 2014

Certificate of RoHS Compliance

I do declare that the following product:

3G Antenna EEN-502, Wlan 2.4G Antenna UEN-101 and EEN-105

Produced by San Jose Technology, Inc. conforms to the safety, and reliability norms of the following regulations:

RoHS Directive (2011/65/EU): The Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive, passed into law by the European Union (E.U.)

We agree to take the whole responsibility in this respect.

Signed by:

Terry Lu

Terry Lu
QA Deputy Manager

