

# 承 認 書

## APPROVAL SHEET

CUSTOMER: MAP ELECTRONICS CO., LTD

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CUSTOMER MODEL NO.: MEGWX-467XSAXX-920

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DESCRIPTION #467X Replacement Antnna

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REV.: 00

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DATE 2015/11/19

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Customer Approval	
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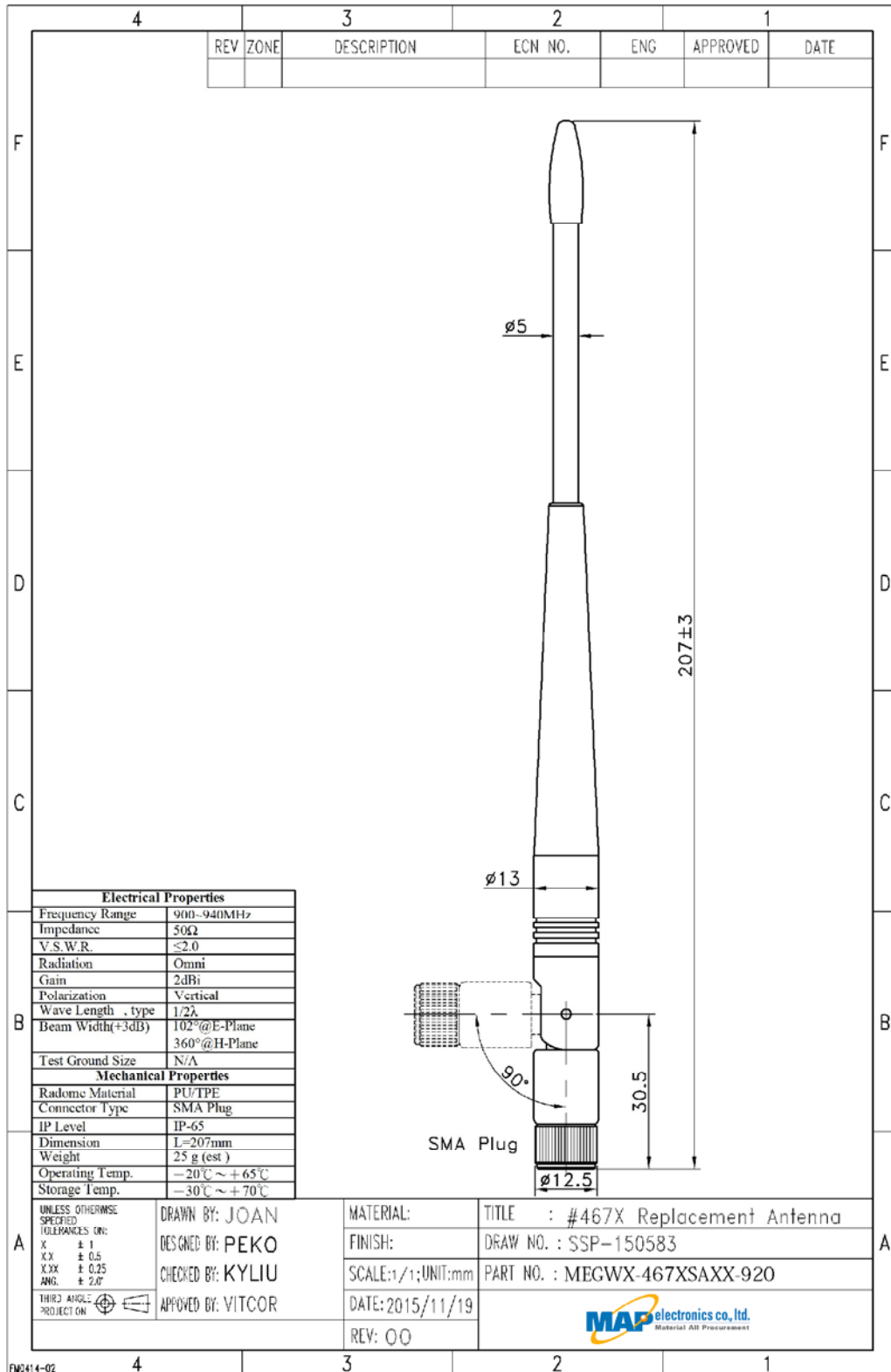
### Modification History:

Rev.	Date	Content
00	2015/11/19	



# 1. Specification

## 1.1 Drawing



## 1. Specification

### 1.1 Drawing

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<b>Electrical Properties</b>	
Frequency Range	900~940MHz
Impedance	50Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2dBi
Polarization	Vertical
Wave Length , type	1/2λ
Beam Width(±3dB)	102°@E-Plane 360°@H-Plane
Test Ground Size	N/A
<b>Mechanical Properties</b>	
Radome Material	PU/TPE
Connector Type	SMA Plug
IP Level	IP-65
Dimension	L=207mm
Weight	25 g (est )
Operating Temp.	−20°C ~ +65°C
Storage Temp.	−30°C ~ +70°C

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**Connector****SMA**

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Specification Data	1) Impedance	50 ohm
	2) Frequency Range	0~6GHz
	3) Working Voltage	$\leq 250$ Vrms
	4) Dielectric Withstanding	$\leq 670$ Vrms
	5) Voltage Insulation Resistance	$\geq 2000$ Mega ohm
	6) Contact Resistance	Center contact: 3.0 Milliohms (Max.) Outer contact: 2.0 Milliohms (Max.)
	7) Recommended coupling nut torque	4.0 in. lbs
	8) Coupling nut retention force	$\geq 50$ lbs (222N)
	9) Contact captivation force	$\geq 5$ lbs (22.2N)
	10) Durability (mating)	$\geq 500$ cycles

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Environmental Data	1) Thermal Shock	MIL-STD-202,Method 107, Condition E
	2) Corrosion	MIL-STD-202,Method 101, Condition E
	3) Shock	MIL-STD-202,Method 213, Condition I
	4) Vibration	MIL-STD-202,Method 204, Condition E
	5) Moisture Resistance	MIL-STD-202,Method 106

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Material Specifications	Material Data	Material
	1) Body	Brass
	2) Contact	Brass
	3) Insulator	Teflon or Delrin

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# Model NO. MEGWX-467XSAXX-920

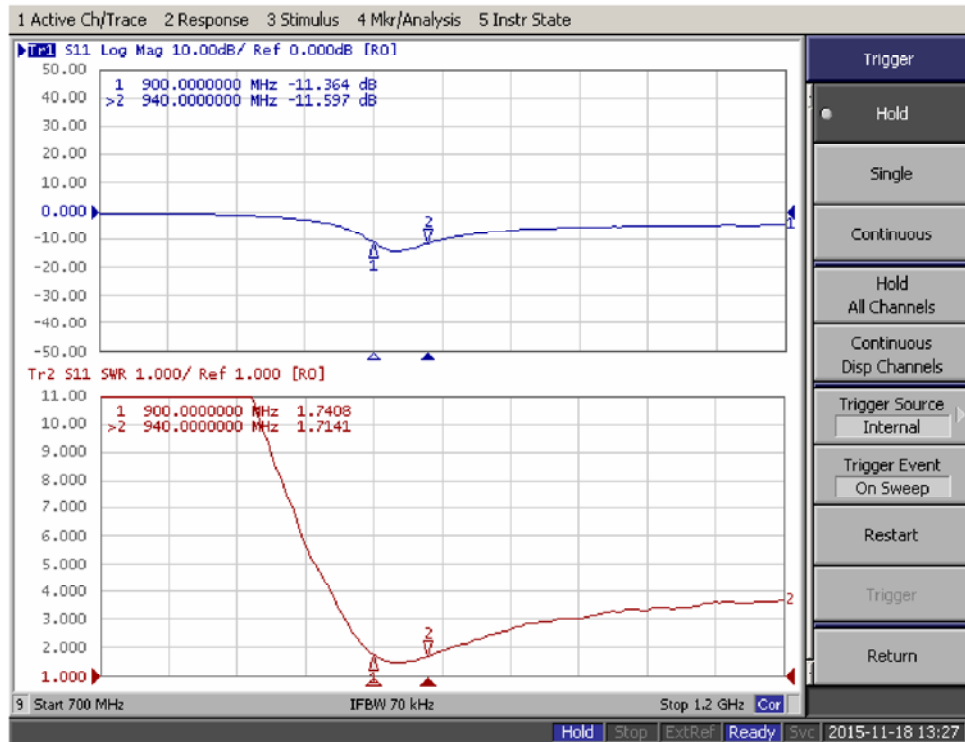
## 2. Test Report

### 2.1 Electrical test

## Return loss/V.S.W.R

Return loss

V.S.W.R.



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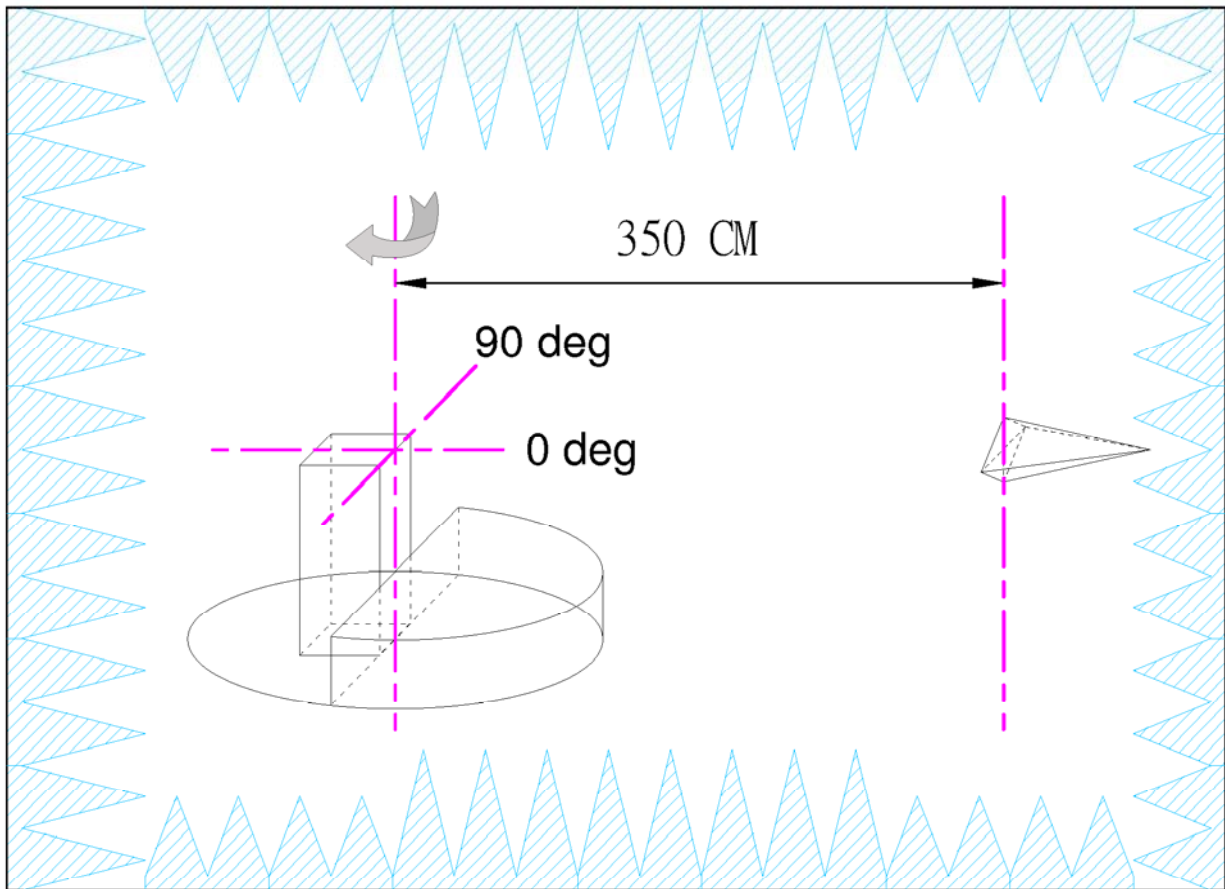
**Model NO.**MEGWX-467XSAXX-920

**2D Patten Test Instrument**

**Pattern Test**

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### Test Equipment

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

Source Antenna: ETS-3164 Dual Polarized Horn

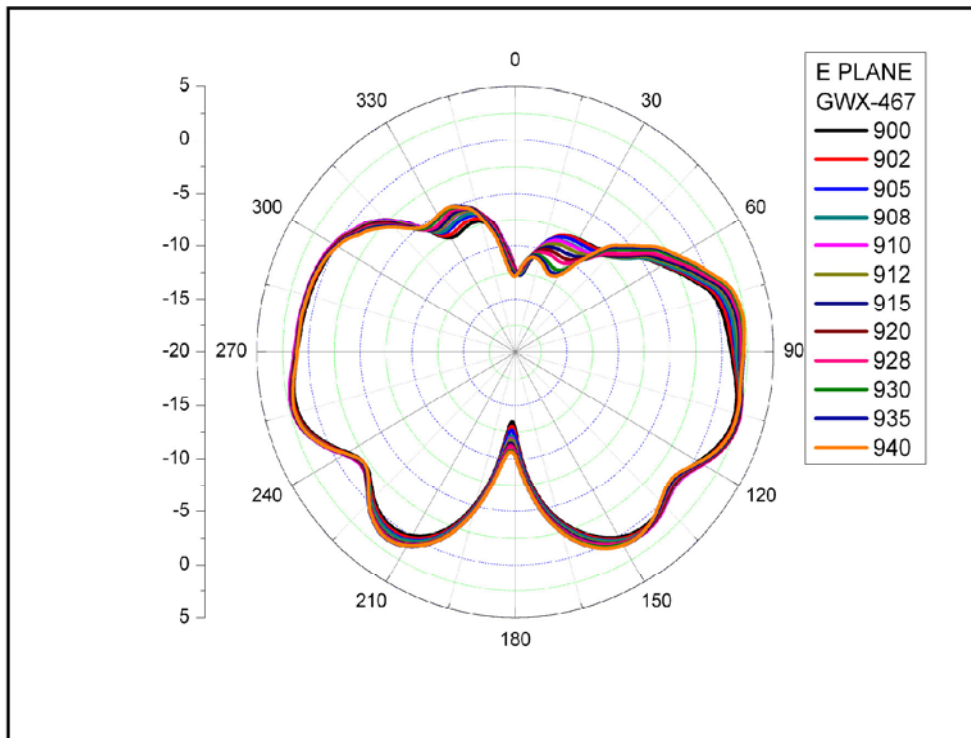
Network Analyzer: Agilent E5071B 100kHz~8.5GHz

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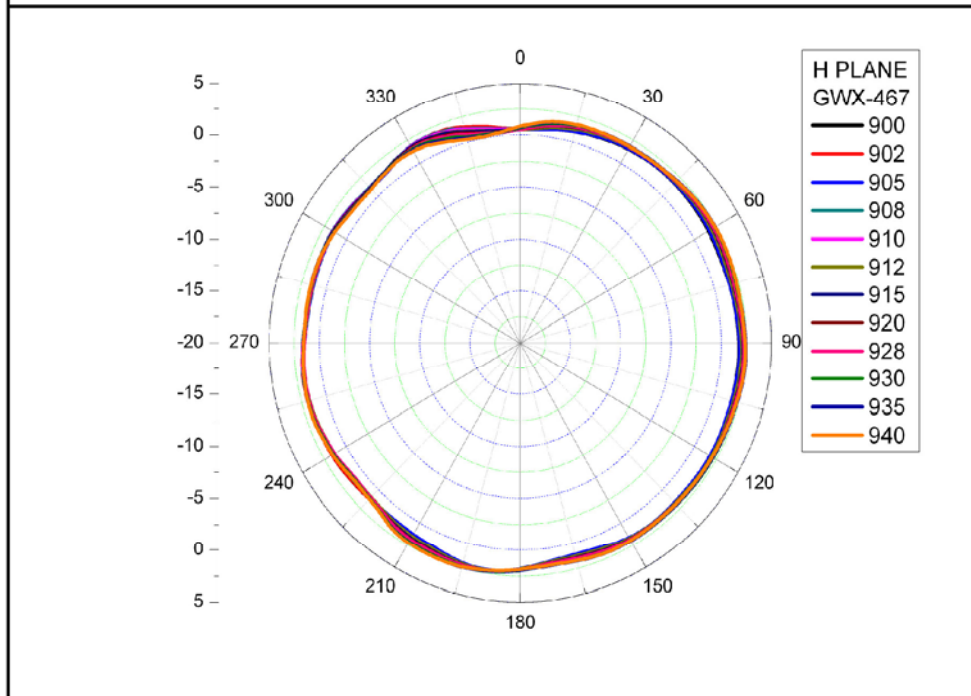
## Test Setup

## Pattern Test

E-plane



H-plane



Gain (dBi)	900	902	905	908	910	912	915	918	920	925	928	930
E	1.66	1.49	1.67	1.72	1.88	1.89	2.01	2.02	1.96	1.95	1.96	1.84
H	1.44	1.48	1.46	1.69	1.68	1.74	1.86	1.93	1.69	1.04	1	1.21

