承　　認　　書

APPROVAL SHEET

CUSTOMER:　MAP ELECTRONICS CO., LTD

CUSTOMER MODEL NO.: MEGWX-1551SAXX-920

DESCRIPTION:　Waterproof Replacement Antenna

REV.: 03

DATE: 2018/8/15

M.A.P electronics co., ltd.
Material All Procurement

for reference only

Index.

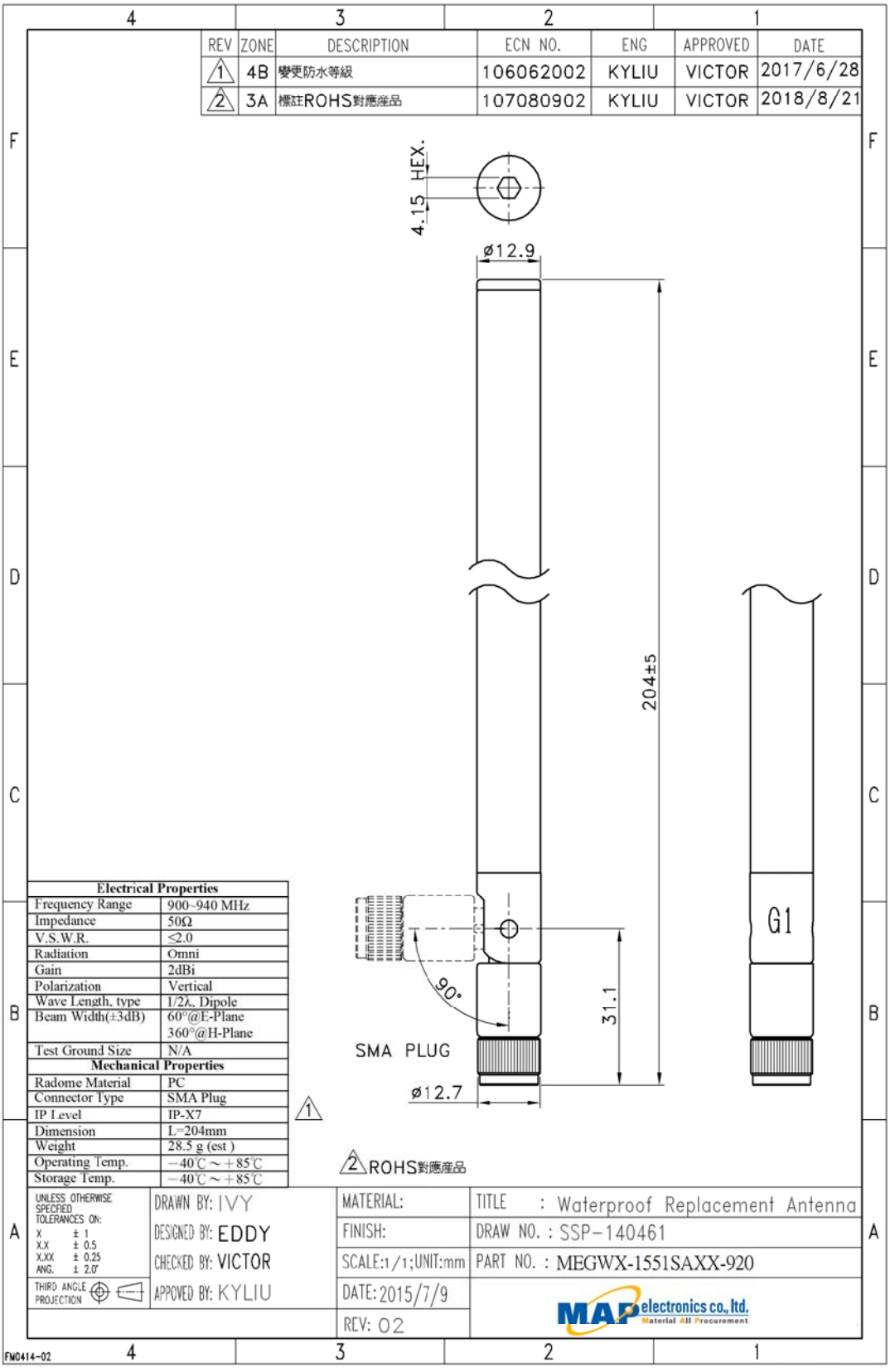
Modification History:

Rev.	Date	Content
00	2015/7/9	
01	2015/11/23	增加包裝
02	2017/6/28	變更圖面防水等級
03	2018/8/15	增加圖示包裝說明 圖面標註ROHS對應產品

1. Specification

1.1 Drawing

REV	ZONE	DESCRIPTION	ECN NO.	ENG	APPROVED	DATE
1	4B	變更防水等級	106062002	KYLIU	VICTOR	2017/6/28
2	3A	標註ROHS對應產品	107080902	KYLIU	VICTOR	2018/8/21



Electrical Properties	
Frequency Range	900~940 MHz
Impedance	50Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2dBi
Polarization	Vertical
Wave Length, type	1/2λ, Dipole
Beam Width(±3dB)	60°@E-Plane 360°@H-Plane
Test Ground Size	N/A
Mechanical Properties	
Radome Material	PC
Connector Type	SMA Plug
IP Level	IP-X7
Dimension	L=204mm
Weight	28.5 g (est)
Operating Temp.	−40℃~+85℃
Storage Temp.	−40℃~+85℃

UNLESS OTHERWISE SPECIFIED TOLERANCES ON:
X ± 1
X.X ± 0.5
X.XX ± 0.25
ANG. ± 2.0°
THIRD ANGLE PROJECTION

DRAWN BY: IVY
DESIGNED BY: EDDY
CHECKED BY: VICTOR
APPOVED BY: KYLIU

MATERIAL:
FINISH:
SCALE:1/1;UNIT:mm
DATE: 2015/7/9
REV: 02

TITLE : Waterproof Replacement Antenna
DRAW NO. : SSP-140461
PART NO. : MEGWX-1551SAXX-920

MAP electronics co., ltd. Material All Procurement

FM0414-02

1. Specification

1.1 Drawing

Electrical Properties	
Frequency Range	900~940 MHz
Impedance	50Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2dBi
Polarization	Vertical
Wave Length, type	1/2λ, Dipole
Beam Width(±3dB)	60°@E-Plane 360°@H-Plane
Test Ground Size	N/A
Mechanical Properties	
Radome Material	PC
Connector Type	SMA Plug
IP Level	IP-X7
Dimension	L=204mm
Weight	28.5 g (est)
Operating Temp.	－40℃～＋85℃
Storage Temp.	－40℃～＋85℃

1.2 Connector SMA

Specification Data	1） Impedance	50 ohm
	2） Frequency Range	0~6GHz
	3） V.S.W.R.	≦1.5
	4） Working Voltage	≦250 Vrms
	5） Dielectric Withstanding	≦670Vrms
	6） Voltage Insulation Resistance	≧2000 Mega ohm
	7） Contact Resistance	Center contact: 3.0 Milliohms (Max.) Outer contact: 2.0 Milliohms (Max.)
	8） Recommended coupling nut torque	4.0~8.8 in. 1bs (0.45~0.99Nm)
	9） Coupling nut retention force	≧50 1bs (222N)
	10）Contact captivation force	≧5 1bs (22.2N)
	11）Durability (mating)	≧500 cycles

Environmental Data	1） Operating Temperature	－65℃～＋165℃
	2） Thermal Shock	MIL-STD-202,Method 107, Condition B
	3） Corrosion	MIL-STD-202,Method 101, Condition B
	4） Shock	MIL-STD-202,Method 213, Condition I
	5） Vibration	MIL-STD-202,Method 204, Condition D
	6） Moisture Resistance	MIL-STD-202,Method 106

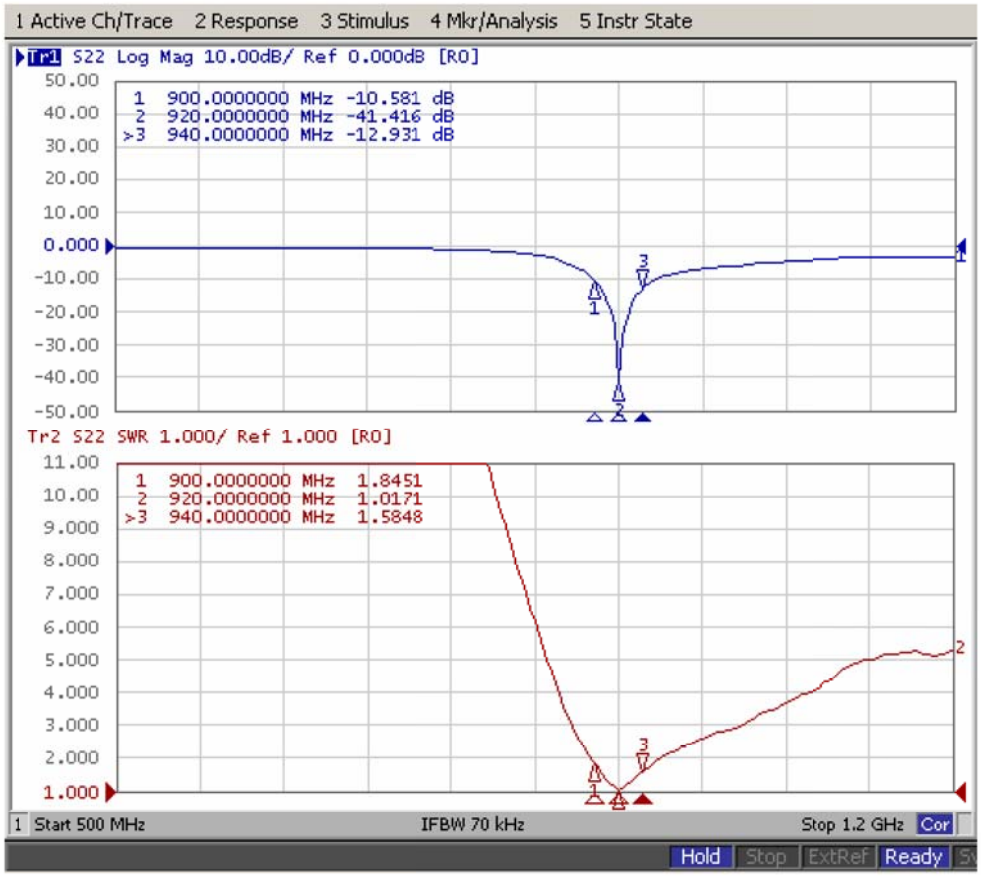
Material Specifications	Material Data	Material
	1） Body	Brass
	2） Contact	Brass
	3） Insulator	Teflon or Delrin

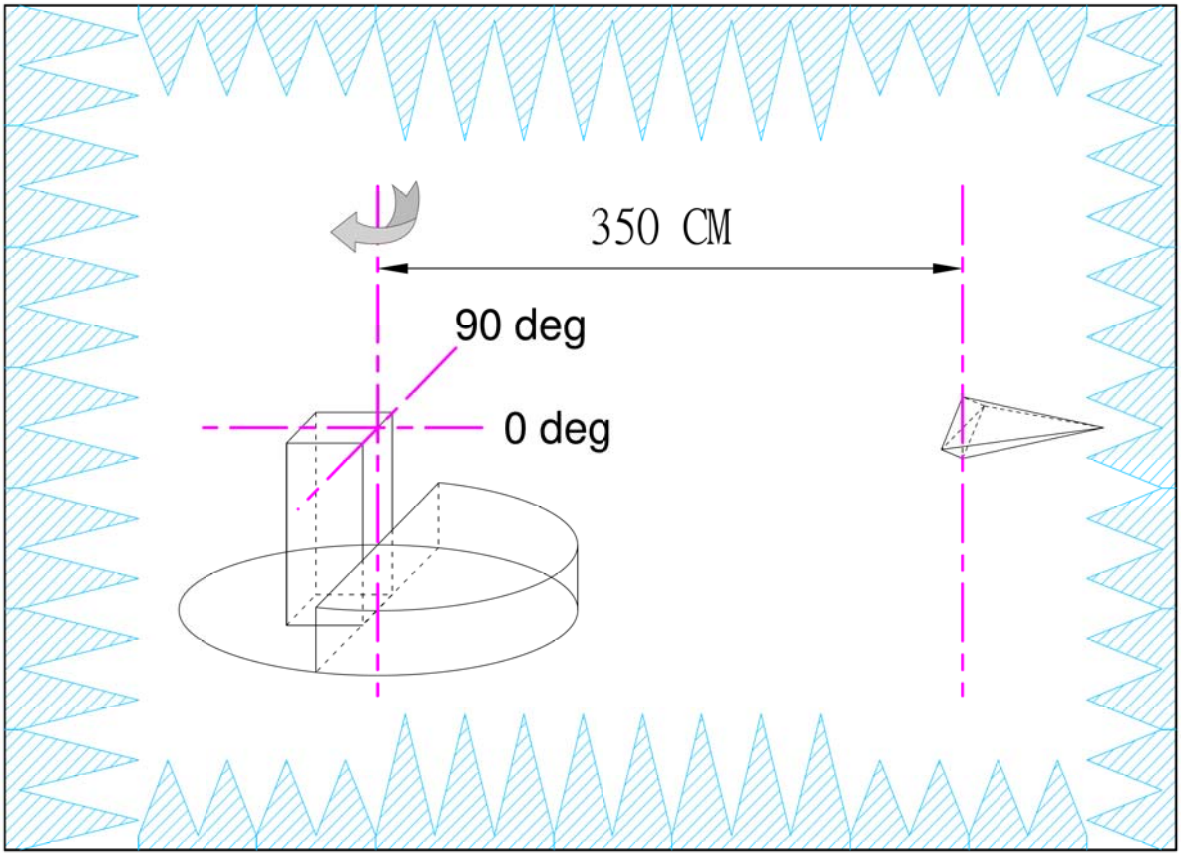
2.1 Electrical test

Return loss/V.S.W.R

Return loss

V.S.W.R.





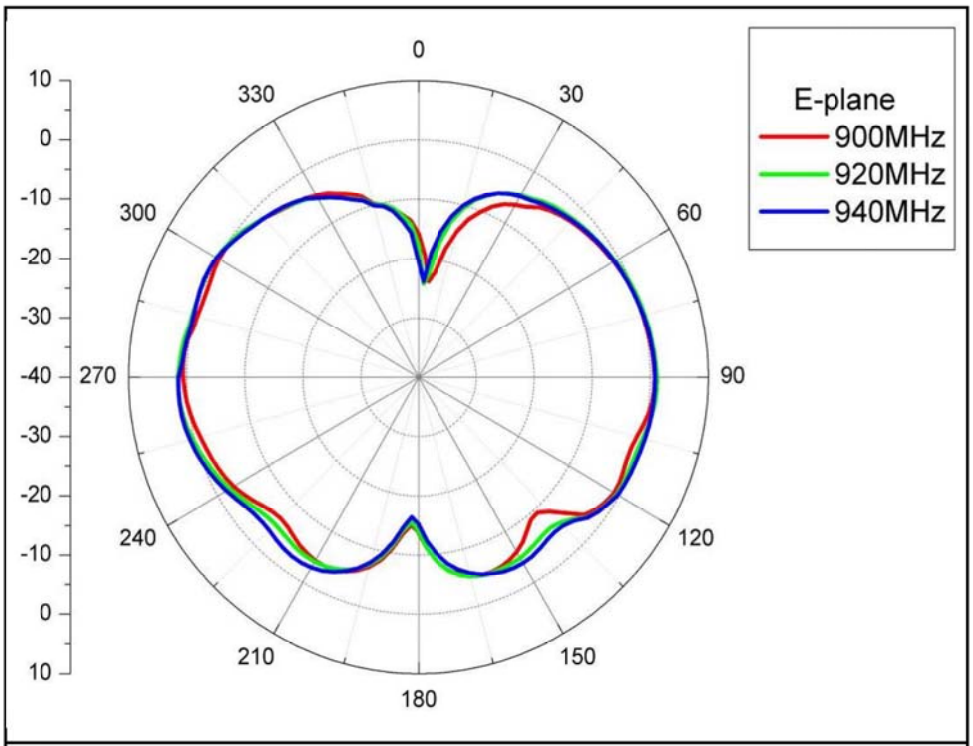
Test Equipment

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

Soure Antenna: ETS-3164 Dual Polarized Horn

Network Analyzer: Agilent E5071B 100kHz~8.5GHz

E-plane



H-plane