

APPROVAL SHEET

MODEL	FREQUENCY
HW-LORA-N-RSMA	902 ~ 928 MHz



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ANTENNA SPECIFICATION

1. MODEL: HW-LORA-N-RSMA

2. APPLICATION: This specification is provided for LORA DIPOLE ANTENNA

3 ANTENNA used condition

☐ Portable ☒ Fixing ☐ Movement ☒ Out-door ☒ In-door ☒ Etc()

4. ANTENNA Drawing

Attached Drawing paper

5. Electrical specification and performance

Satisfied next data with real used or similar environment conditions.

No.	ELECTRICAL DATA	SPECIFICATIONS	REMARK
5. 1	FREQUENCY RANGE	902 ~ 928 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL	
5. 3	V. S. W. R	LESS THAN 1:2.5	
5. 4	GAIN(MAX.)	2.7 dBi	
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL	
5. 6	POLARIZATION	VERTICAL	

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
6. 1	SLEEVE	NYLON GRASS	BLACK-COLOR
6. 2	COVER	NYLON GRASS	BLACK-COLOR
6. 3	SMA(Male) CONNECTOR	BRASS	Ni-PLATING
6. 4	ANTENNA TOTAL LENGTH	154 $\pm$ 2.0 mm	

7. Reliability test and standards

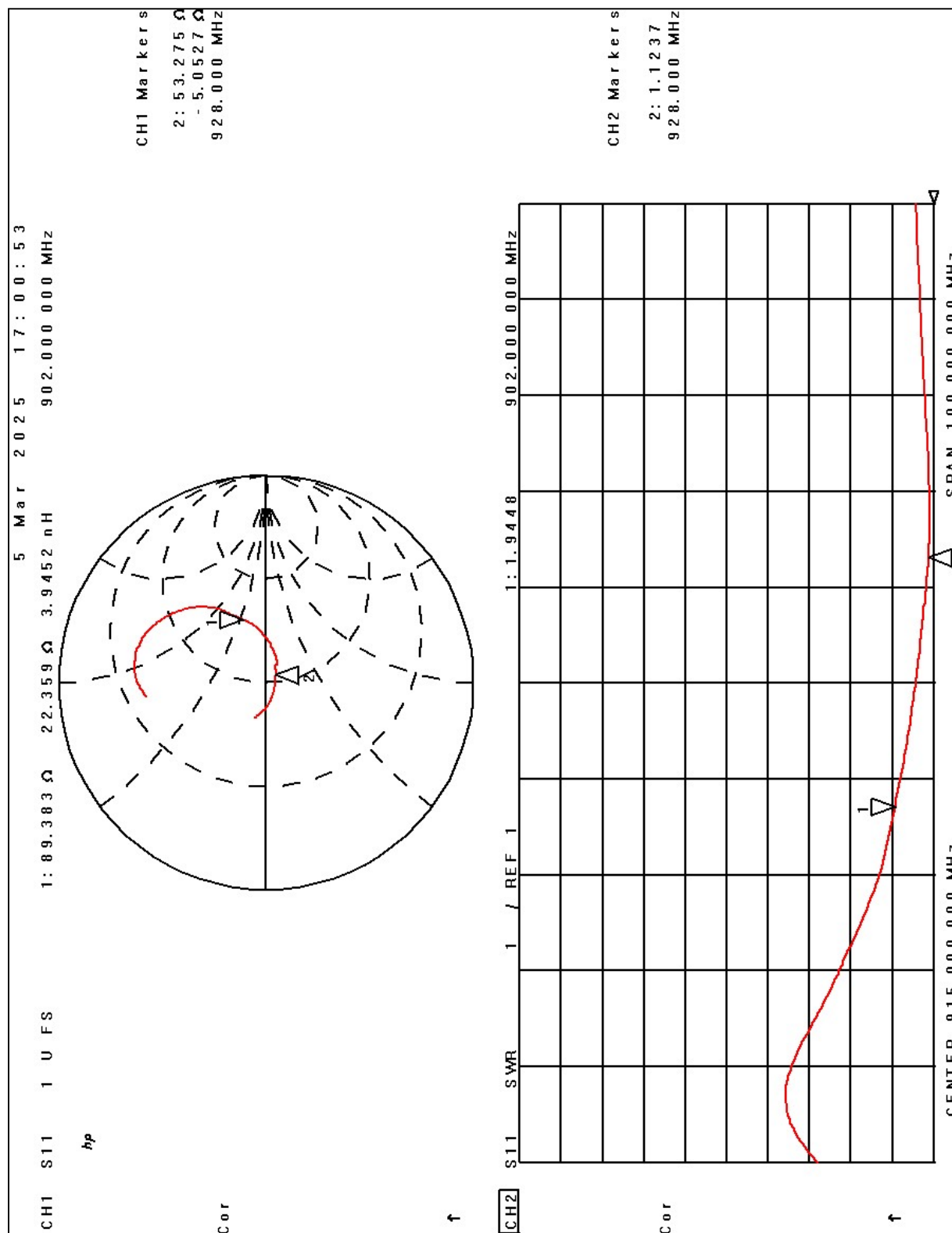
NO	TEST	TEST Method	Decision
1	High Tem. storage	Temp.: 70℃, 48 Hour	* No transform about antenna
2	High Humidity storage	Temp.: 70℃, Humidity : 95% 72 Hour	
3	Low Tem. storage	Temp.: -40℃, 48 Hour	

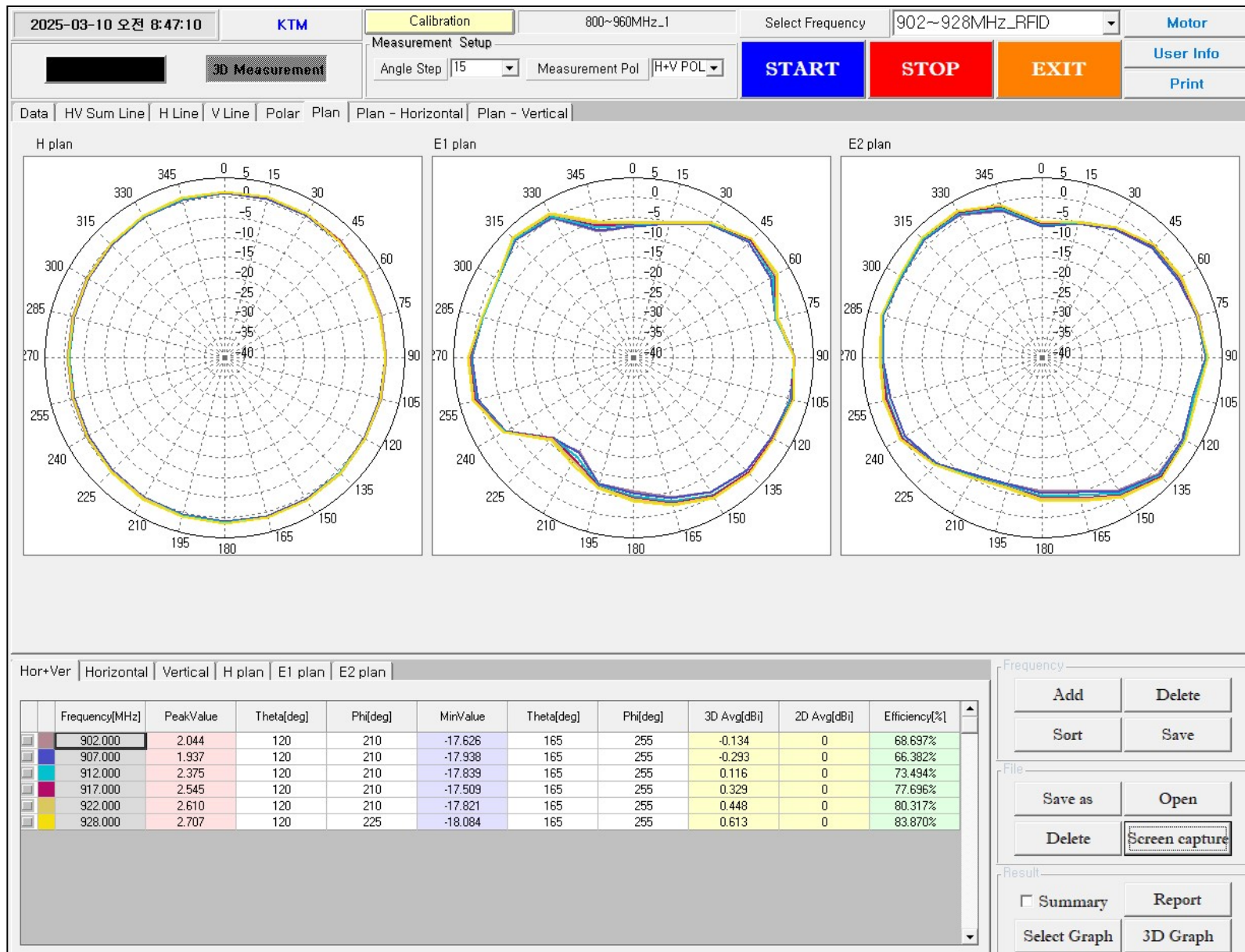
8. TEST and Q/C

This specification is according to fixed demands and suitable Hanwool technology Q/C provision.

But it is possible to skip No. 7 demands, after consultation with buyer.

-. VSWR → 902 ~ 928 Mhz





· GAIN → 902Mhz ~ 928Mhz

Hanwool Technology				TOL Unless Noted	DIMENSION	mm	No	DATE	REVISION	CHECKER
				X. = ±0.5	SCALE		1	201 . . .		
				X.X = ±0.1	MATERIAL		2	201 . . .		
				X.XX = ±0.05	FINISH		3	201 . . .		

TITLE	MULTI DIPOLE ANTENNA	ASS'Y	MODEL	HW-LORA-N-RSMA	3	SLEEVE COVER	NYLON GRASS	BLACK-COLOR
Drawn	Checked	Approval	Date	File Name	2		NYLON GRASS	BLACK-COLOR
V.C.LEE		C.G.NAM	2018.03.29	180329-02	1	SMA(m) CONN.	BRASS	NI-PLATING
					No.	PART NAME	MATERIAL	FINISH