

MARK LINK Co., Ltd.

APPROVAL SHEET

IML-C6400W			
NO	MODEL	FREQUENCY	
1	HWI-LTSI-DC6400W	LTE Band 31	452.5 ~ 467.5 MHz
		LTE Band 26	814 ~ 894 MHz
		LoRA	920 ~ 925 MHz

SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
					
22/09/28		22/09/28			



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HISTORY SHEET

ANTENNA SPECIFICATION

1. MODEL: HWI-LTSI-DC6400W

2. APPLICATION:

This specification is provided for LTE Band31, 26, LoRA ANTENNA.

3 ANTENNA used condition

■Portable ■Fixing ■Movement ■Out-door ■In-door ■Etc()

4. ANTENNA Drawing

#3. 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	LTE Band31	452.5 ~ 467.5 MHz	
		LTE Band26	814 ~ 894 MHz	
		Lora	920 ~ 925 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	LTE Band31	Less than 1 : 7.04	#1. Attached
		LTE Band26	Less than 1 : 5.25	
		Lora	Less than 1 : 1.91	
5. 4	PEAK GAIN	LTE Band31	-7.31 dBi	#2. Attached
		LTE Band26	-3.38 dBi	
		Lora	-0.08 dBi	
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL		
5. 6	POLARIZATION	LINEAR		

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
2. 6. 1	CARRIER [W X H X T]	53.3 X 9.5 X 11.7 (mm)	

7. SINUSOIDAL VIBRATION

Vibration Frequencies : 5– 55 Hz (1 cycle)

Sweep Rate : 1 cycle/min

Maximum Amplitude : A – 1 mm

Maximum Acceleration: 2 g

Measuring method

Antenna is combined in the test equipment.

The vibration is done X and Y direction (left, right, up and down) according to below image.

It continued for 2 hours each direction.

8. OPERATING TEMPERATURE

Temperature : – 40°C / +70°C

Demands : Set Antenna and Cable for 72 hours each temperature.

No visual and mechanical changes.

The fitting and mold will be unchanged mechanically during the test.

The antenna shall satisfy the electrical data

9. HUMIDITY

Condition : 95% / +70°C

Measuring method

Antenna is placed in climatic chamber for 72 hours.

Antenna is taken out from the chamber and measured

after another 24 hours in room temperature

Demands : No visual and mechanical changes.

The fitting and mold will be unchanged mechanically during the test.

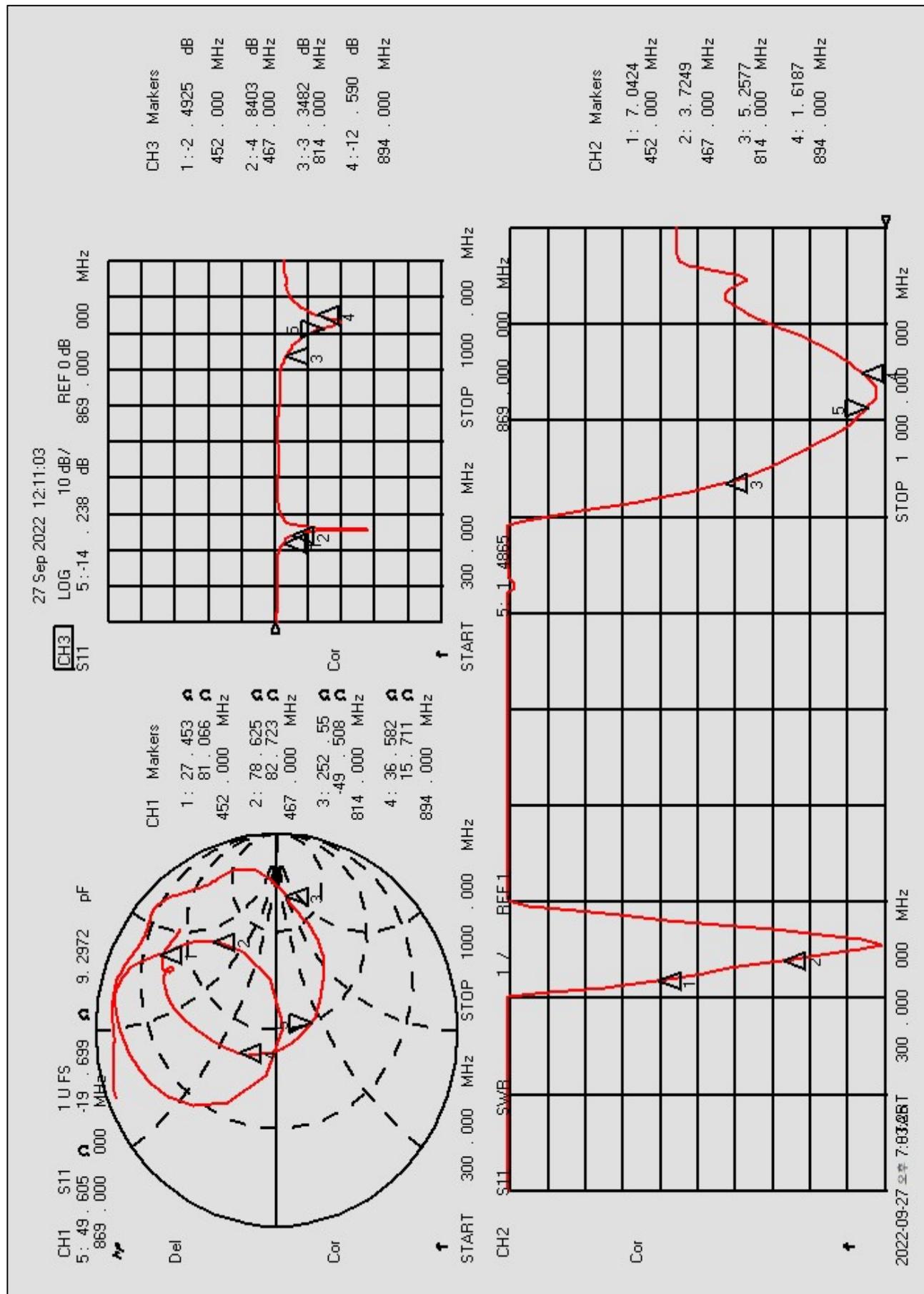
The antenna shall satisfy the electrical data.

10. TEST and Q/C

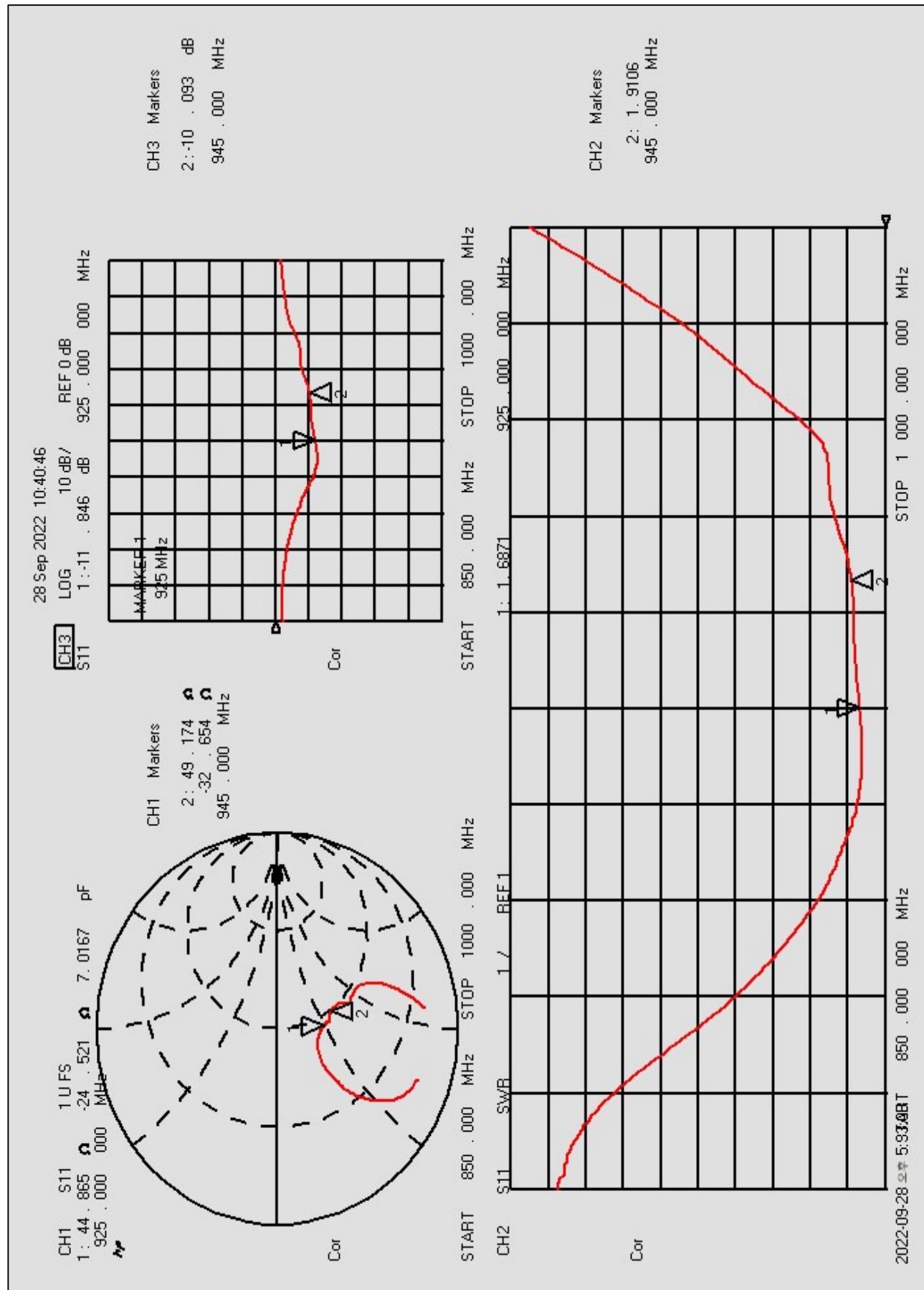
This specification is according to fixed demands and suitable Hanwool technology Q/C provision.

But it is possible to skip No. 7~9 demands, after consultation with buyer.

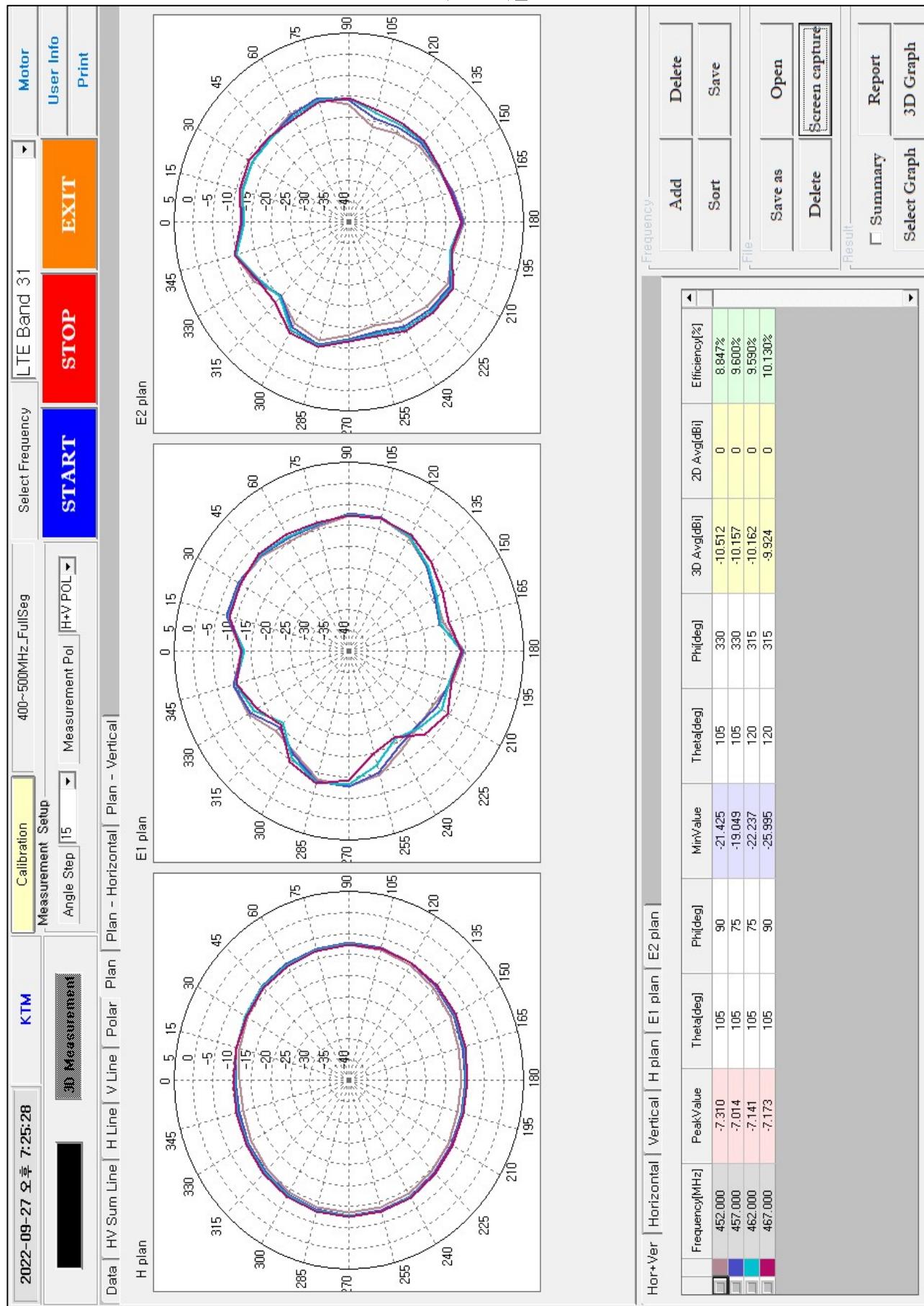
- #1. Attached : DIVERSITY VSWR



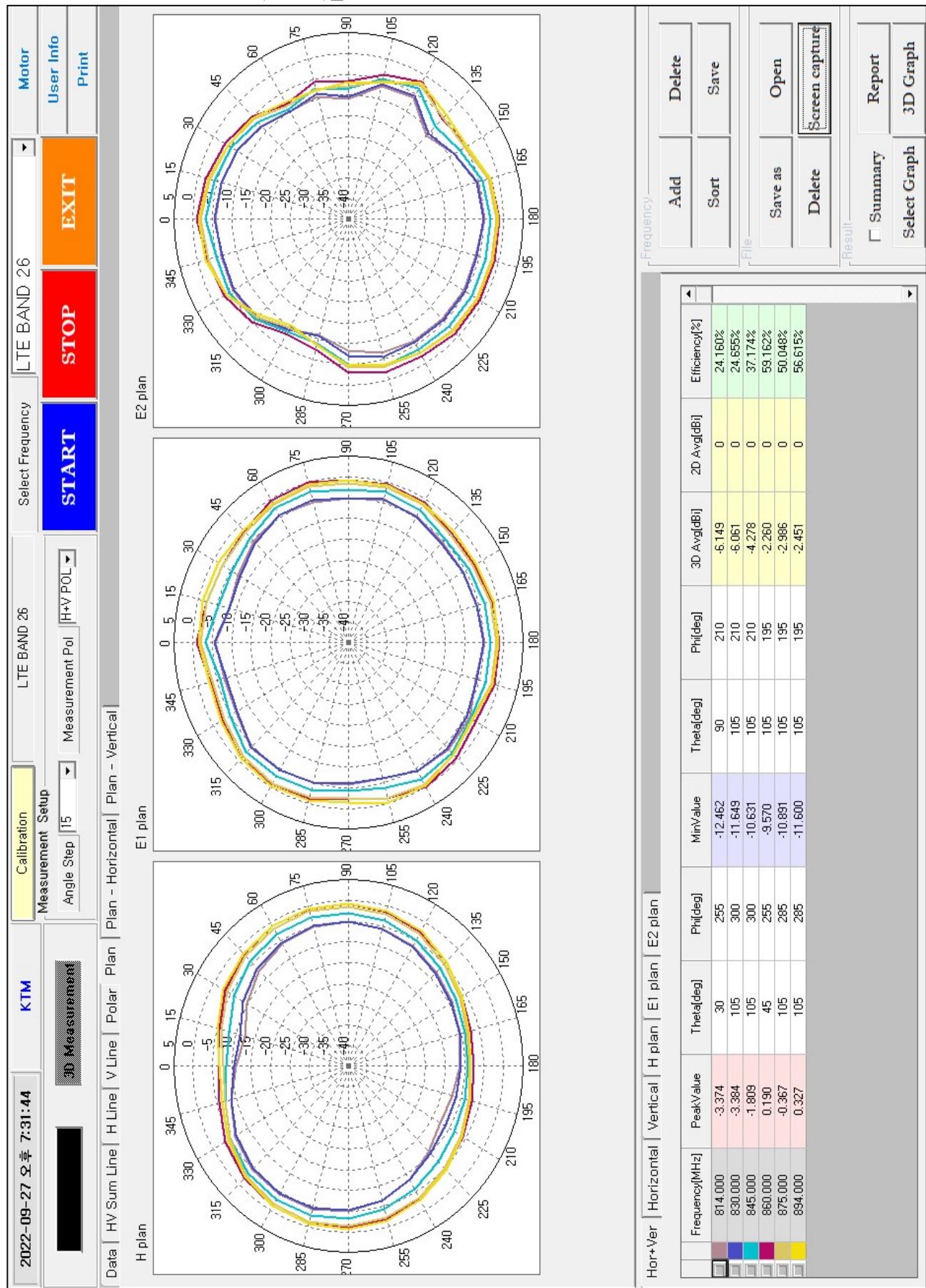
LoRA VSWR



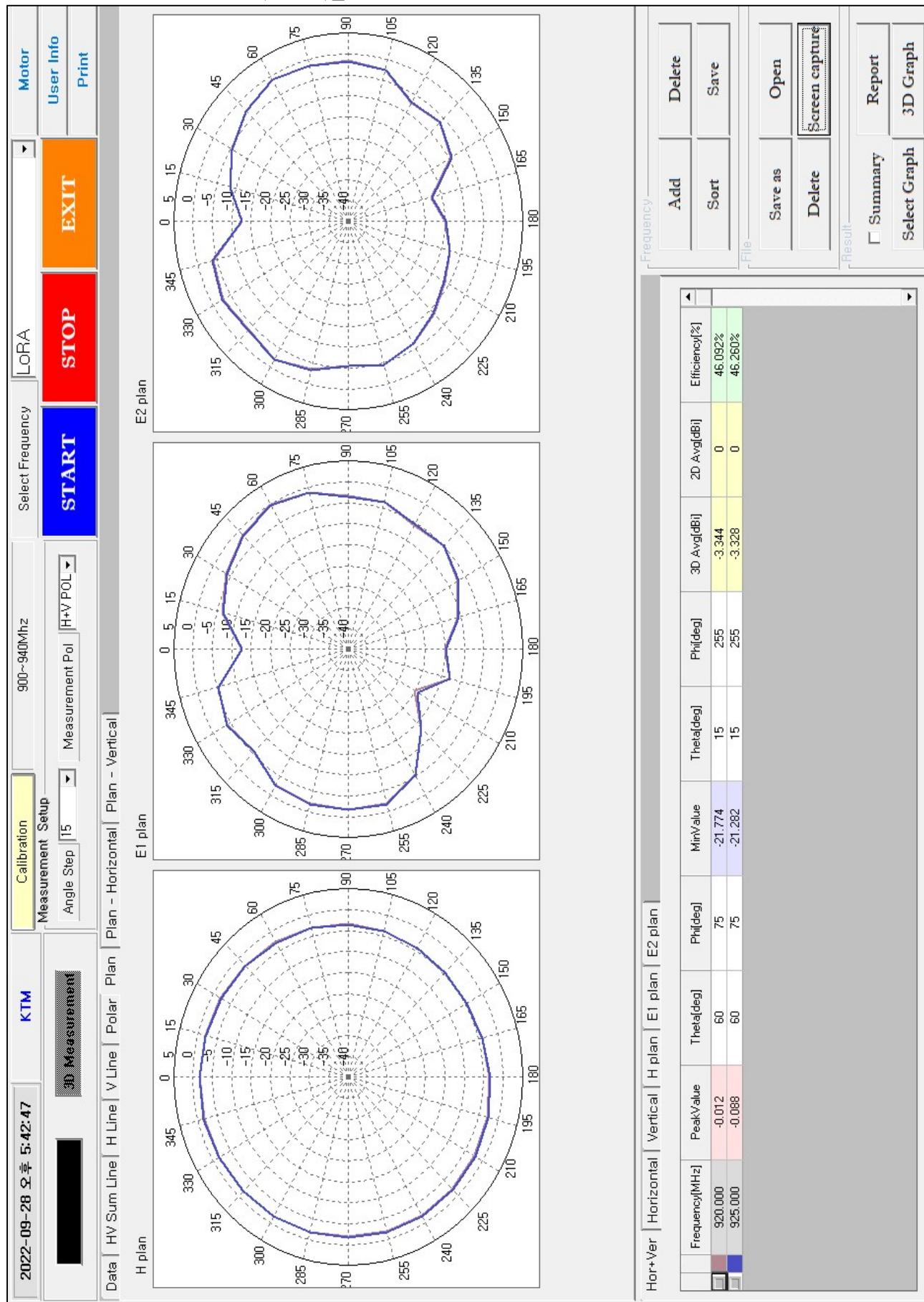
- #2. Attached : RADIATION PATTERN(GAIN)_LTE Band31



RADIATION PATTERN(GAIN)_ LTE Band26

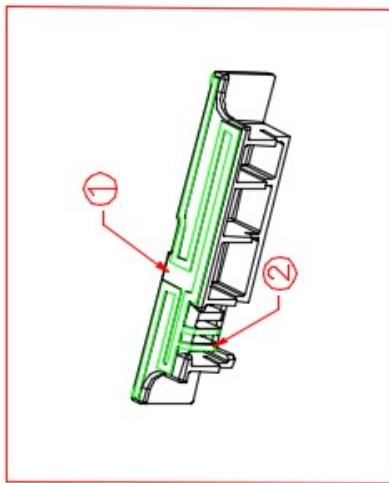


RADIATION PATTERN(GAIN)_ LoRA



- #3. Drawing paper

No	△	Revision Note	Checked	Date



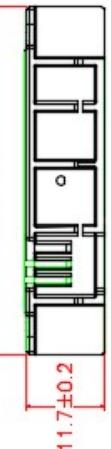
3D VIEW



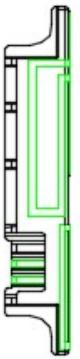
9.5±0.2



11.7±0.2



53.3±0.2



11.7±0.2

2	PATTERN			LPS	1	
1	CARRIER			PC-LG6404 SC1004	1	BLACK
No	Part Name	Material	Description	Q'ty	Finish	
Scale	Unit	Title	ASSY	Model	HWI-LTS1-DC6400W	
1/1	mm	Drawn by	Checked by	Approved by	File Name	01-2021-2
Decimal	Angle	J.Q.LIM	K.M.LEE	H.CHOI		
.XX	±0.1					
.XX	±0.05	N/A	220825-51			

Hanwoo Technology