



APPROVAL SHEET


PM560			
NO	MODEL	FREQUENCY	
1	HWI-ABGD-PM560	WIFI Dual	2402 ~ 2484 MHz 5180 ~ 5825 MHz

SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
					



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HISTORY SHEET

ITEM	CARRIER LPS ANTENNA	Developed by	Hwan. Choi	
Part Name	HWI-ABGD-PM560	Director		
Rev. No.	Date	Description		Etc.
0	2022-09-22	Initial Version		

ANTENNA SPECIFICATION

1. MODEL: HWI-ABGD-PM560

2. APPLICATION:

This specification is provided for BT and WIFI Dual Band 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	BT&WiFi 2.4	2402 ~ 2484 MHz	
		WiFi 5.5	5180 ~ 5825 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	BT&WiFi 2.4	Less than 2.5 : 1	#1. Attached
		WiFi 5.5	Less than 2.5 : 1	
5. 4	PEAK GAIN(Min)	BT&WiFi 2.4	-0.42 dBi	#2. Attached
		WiFi 5.5	1.59 dBi	
5. 5	RADIATION PATTERN	OMNI – DIRECTIONAL		
5. 6	POLARIZATION	LINEAR		

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
6. 1	CARRIER	PC(Poly-Carbonate), LG1004	Black
6. 2	Pattern	LPS	Laser Plating
6. 3	Dimension (D X W X H)	22.6 X 17.6 X 15.9 [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℃ / +70℃

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 : 90% ~ 95% / +70℃

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.

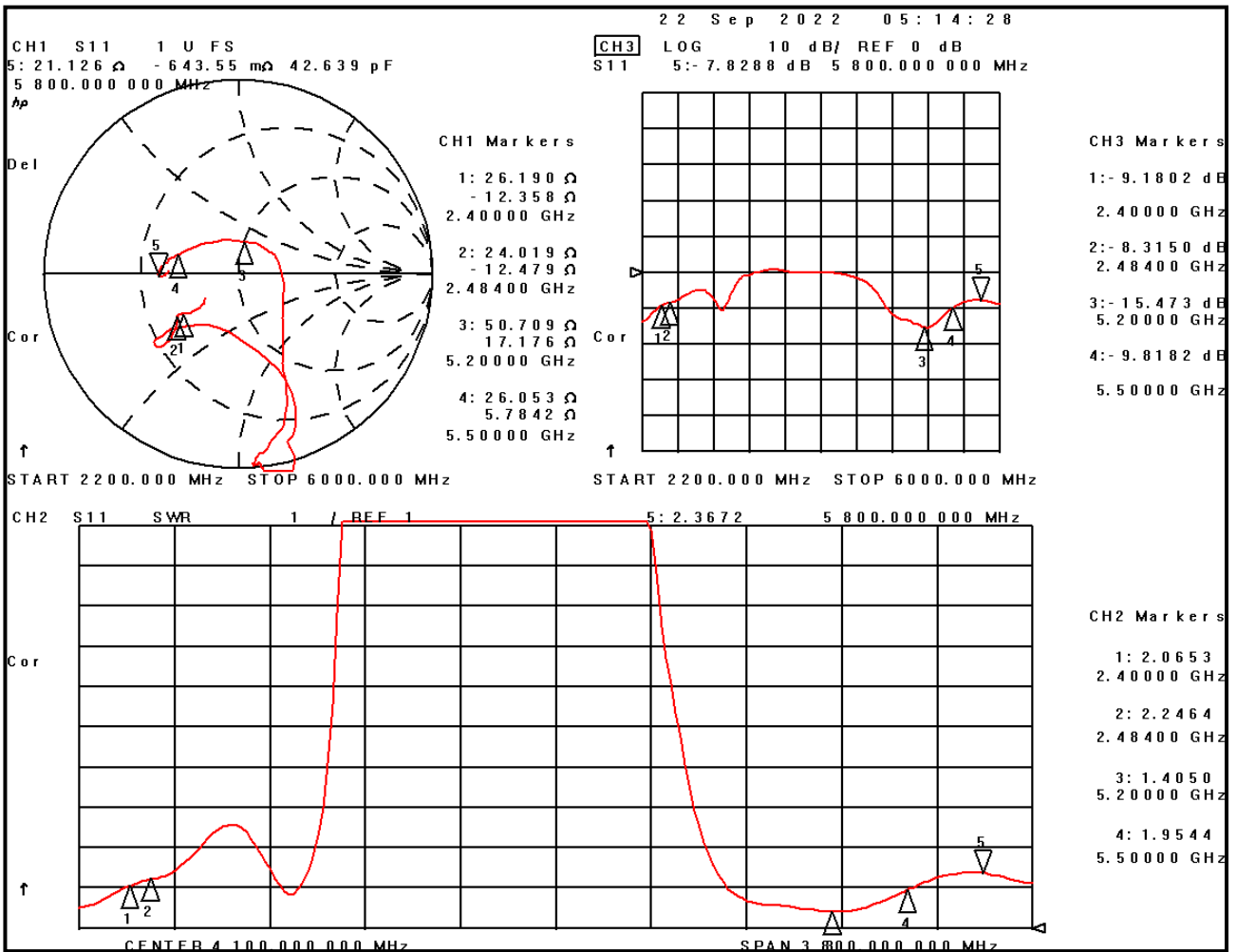
10. TEST and Q/C

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

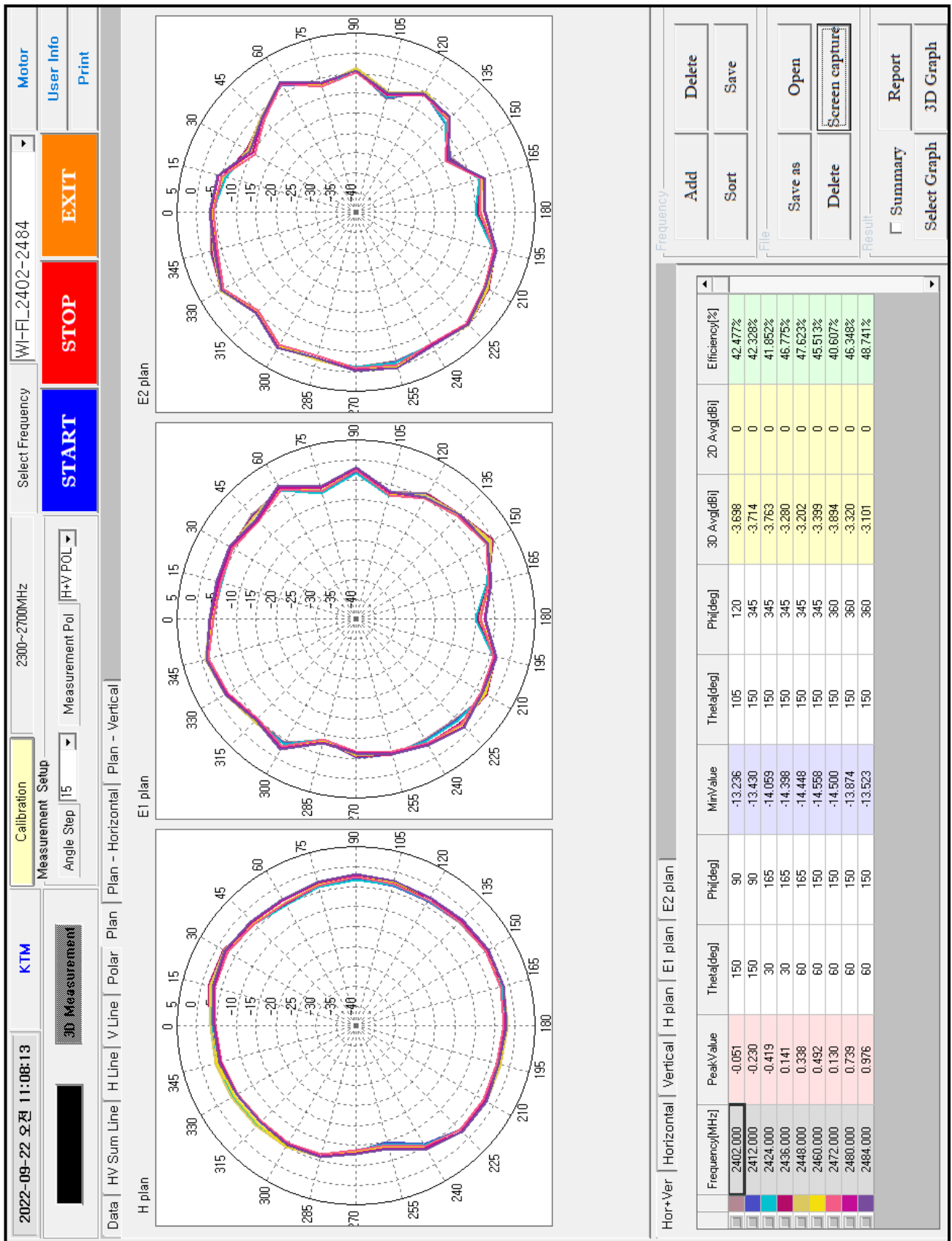
But it is possible to skip No. 7~9 demands, after consultation with buyer.

DQ No.	HW-220922-21	Modify No.		Write	Hwan. Choi
Supply to	POINT MOBILE CO., LTD	Date	2022-09-22	Approval	Chang-gi. Nam

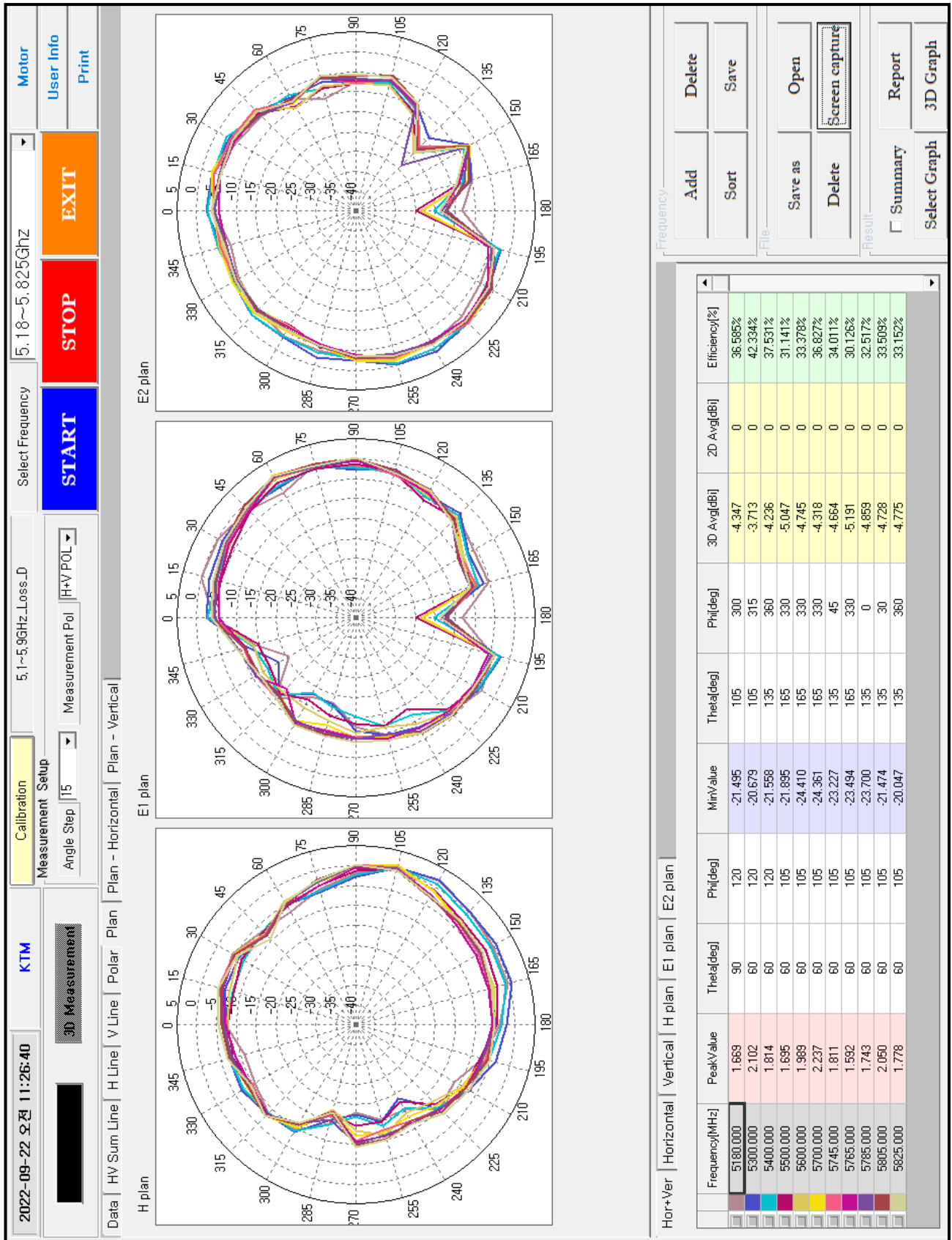
- #1. Attached : VSWR



- #2. Attached : RADIATION PATTERN(GAIN)_WIFI 2.4GHz

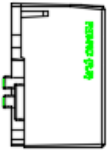


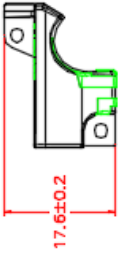
- . RADIATION PATTERN(GAIN)_WIFI 5.5GHz



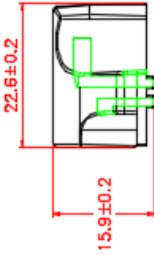
- #3. Attached : Drawing paper

No	▲	Revision Note	Checked	Date
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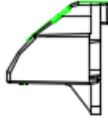


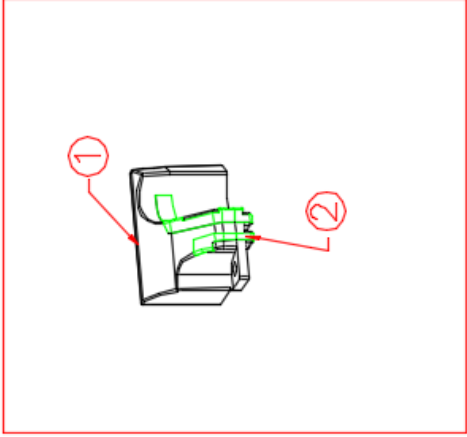


17.6±0.2

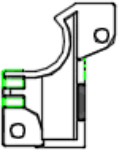


22.6±0.2
15.9±0.2





3D VIEW



2	PATTERN		1	
1	CARRIER	PC-LG형 SC1004	1	BLACK
No	Part Name	Material Description	Q'ty	Finish
Scale	Unit	ASSY	Model	HWF-ABGD-PM560
1/1	mm	Checked by	포인트비밀	
Decimal	Angle	Approved by	File Name	
.X ±0.1	N/A	H,CHOI		
.XX ±0.05	N/A	220905-53		

Hanwool Technology