

Dreamus Corp.

APPROVAL SHEET

SP3000T			
NO	MODEL	FREQUENCY	
1	HWI-ABG-SP3000R	WIFI 2.4GHz/BT	2400 ~ 2500 MHz
		WIFI 5GHz	5170 ~ 5825 MHz

SUPPLIER			CUSTOMER		
Engineer	Review	Approved	Engineer	Review	Approved
					
23/11/21		23/11/21			



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HISTORY SHEET

[illegible]

ANTENNA SPECIFICATION

1. MODEL: HWI-ABG-SP3000R

2. APPLICATION:

This specification is provided for WIFI 2.4, 5GHz, BT 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	WIFI 2.4GHz /BT	2400 ~ 2500 MHz	
		WIFI 5GHz	5170 ~ 5825 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	WIFI 2.4GHz /BT	Less than 1 : 4.10	#1. Attached
		WIFI 5GHz	Less than 1 : 3.45	
5. 4	PEAK GAIN	WIFI 2.4GHz /BT	-3.58 dBi	#2. Attached
		WIFI 5GHz	-2.64 dBi	
5. 5	RADIATION PATTERN	OMNI – DIRECTIONAL		
5. 6	POLARIZATION	LINEAR		

6. Hardware specification and mechanical

No.	MECHANICAL	SPECIFICATIONS	REMARK
2. 6. 1	Carrier Size [W X H X T]	45.7 X 9.6 X 9.6 (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 : 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.

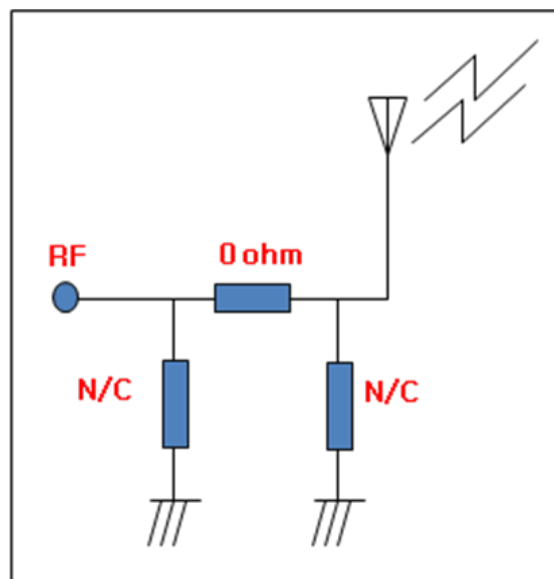
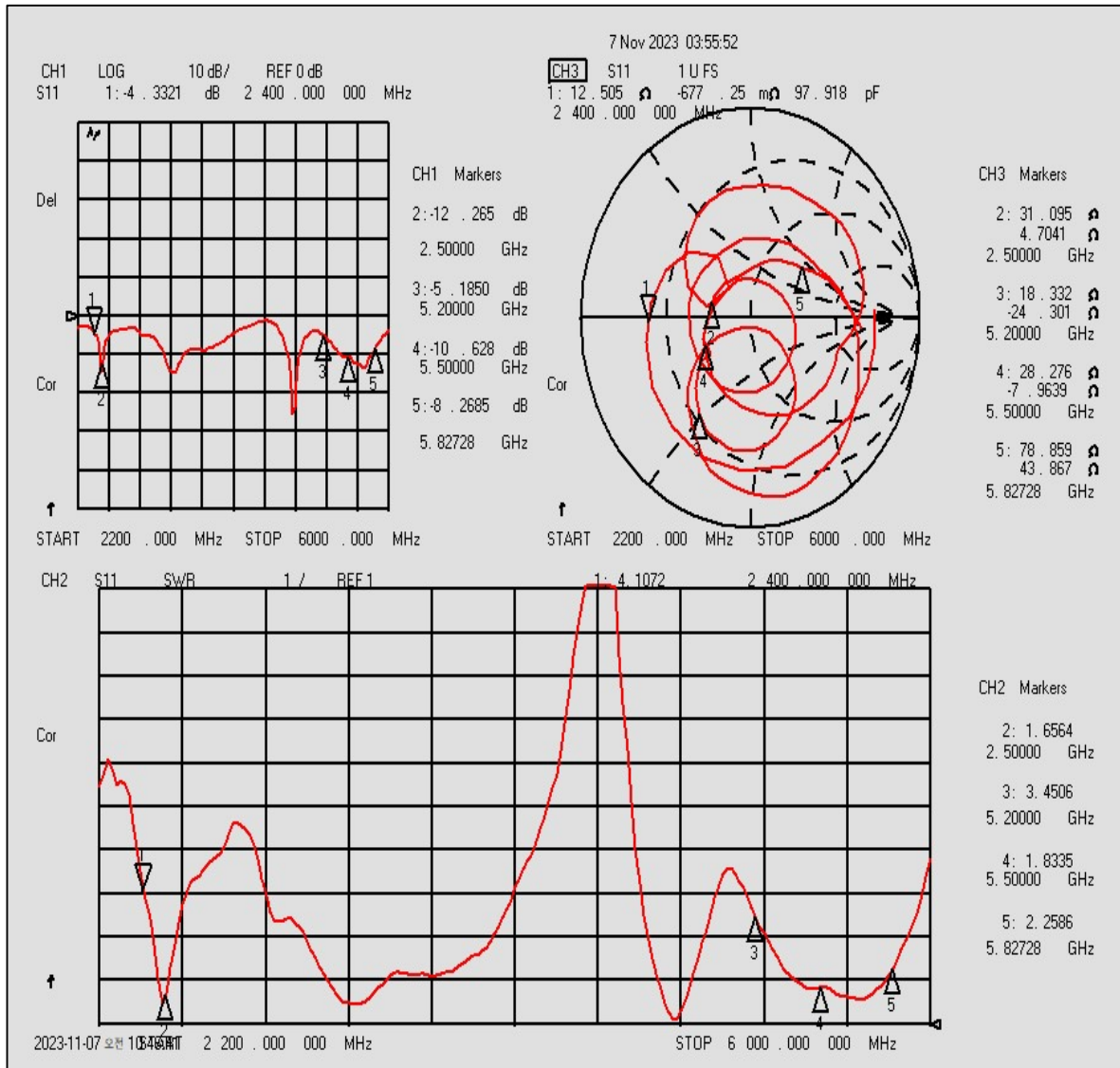
The antenna shall satisfy the electrical data.

10. TEST and Q/C

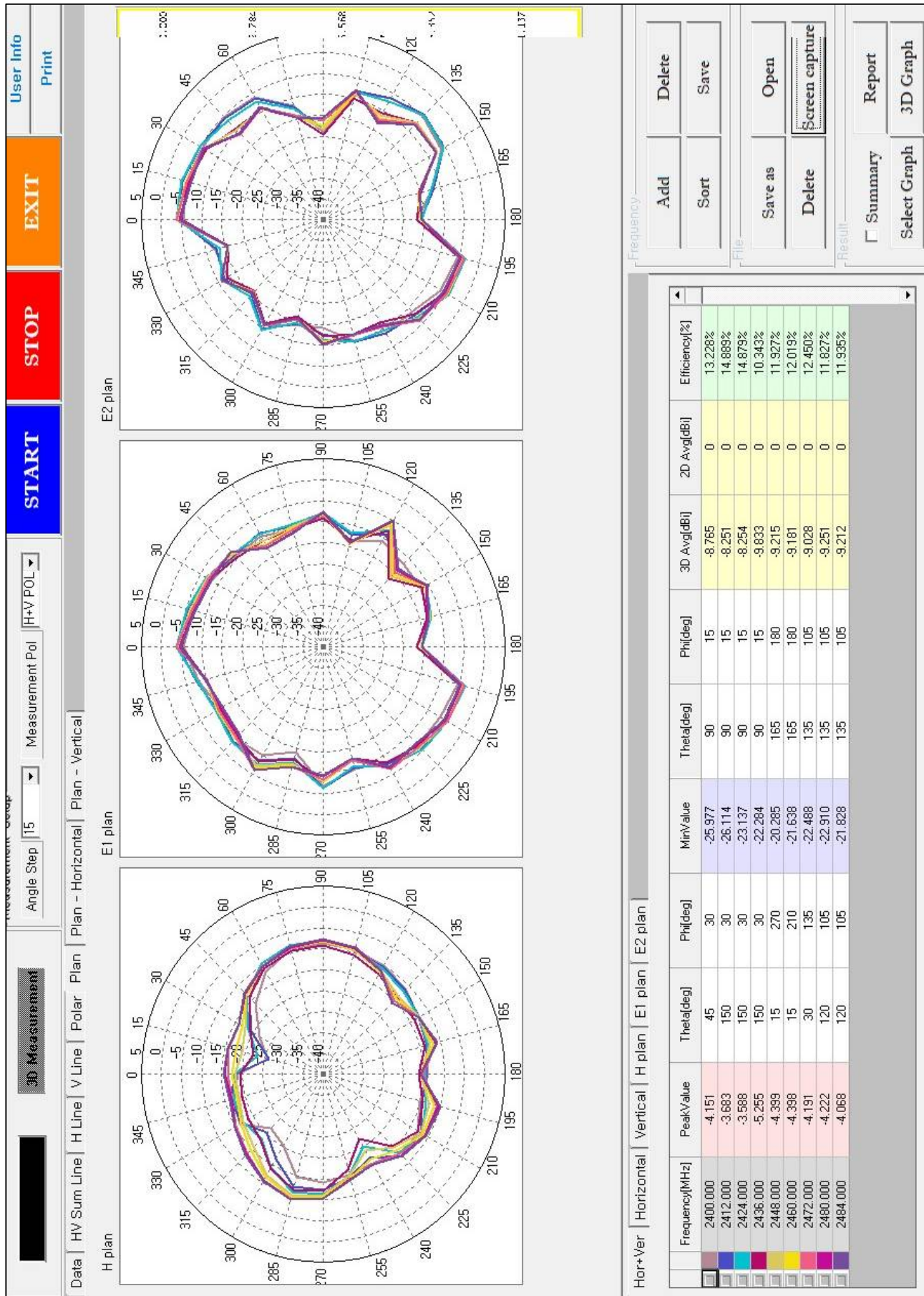
This specification is according to fixed demands and suitable Hanwool technology Q/C provision.

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

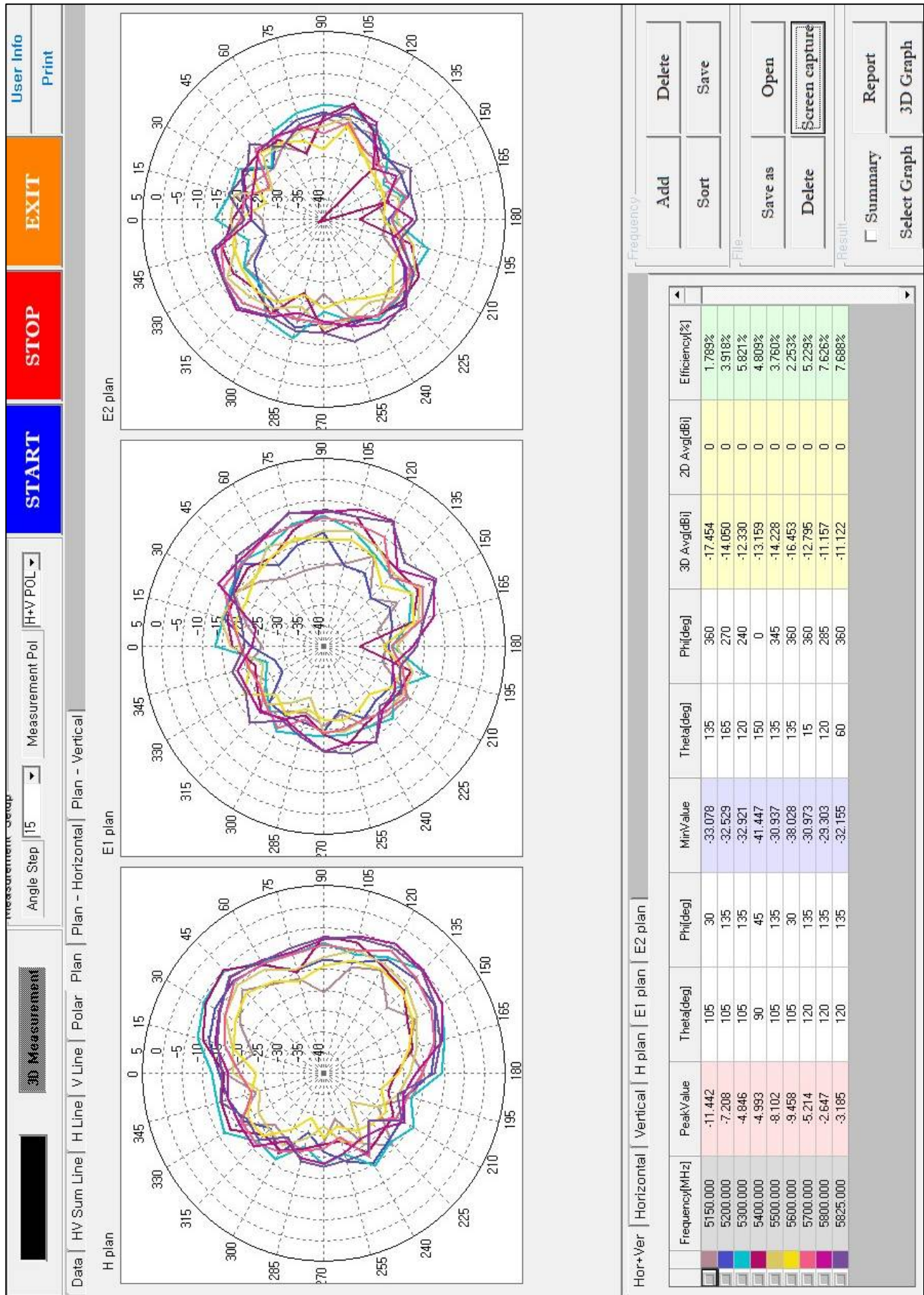
- #1. Attached : VSWR



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

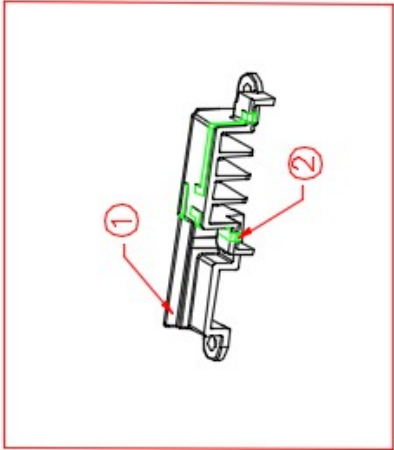
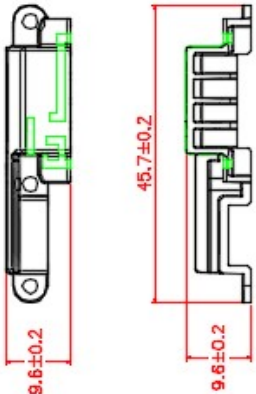


- #3. Attached : RADIATION PATTERN(GAIN)_ WIFI 5GHz



- #3. Drawing paper

No		Revision Note		Checked	Date
A					



3D VIEW

2		PATTERN		LPS		2	
1		CARRIER		PC-LG회판 SC1004		1	
		Part Name		Material Description		Q'ty	
Scale		Unit		ASSY		Model	
1/1		mm		Checked by		HWI-ABG-SP3000R	
Decimal		Angle		Approved by		File Name	
N/A		J.O.LIM		H.CHOI		드림마스	
판공관		231108-51					

Hanwool Technology