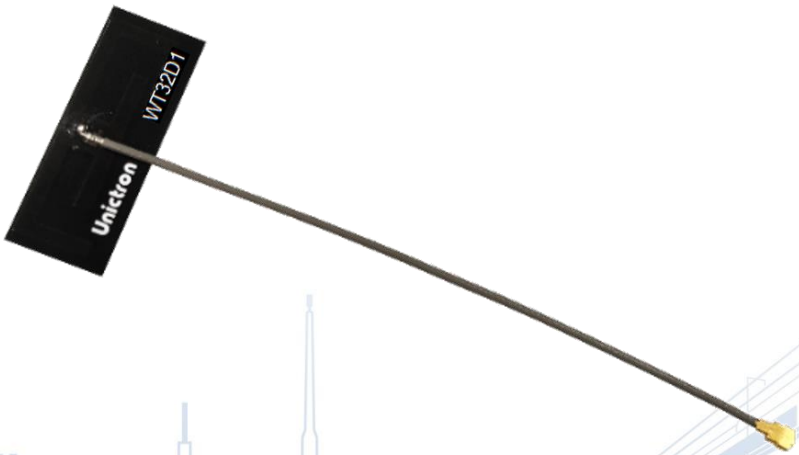


Product Name: WiFi Triple Band Antenna – WT32D1

Part Number: H2B1WD1A3B0100

Features:

- Stable and reliable in performances
- Compact size
- RoHS 2.0 Compliant

Applications:

- IEEE802.11(a/b/g/n/ac)
- Hand-held devices when IEEE802.11(a/b/g/n/ac) functions are needed
- For Wi-Fi 6 & 6E network communication products

WiFi Triple Band Antenna

MODEL: WT32D1

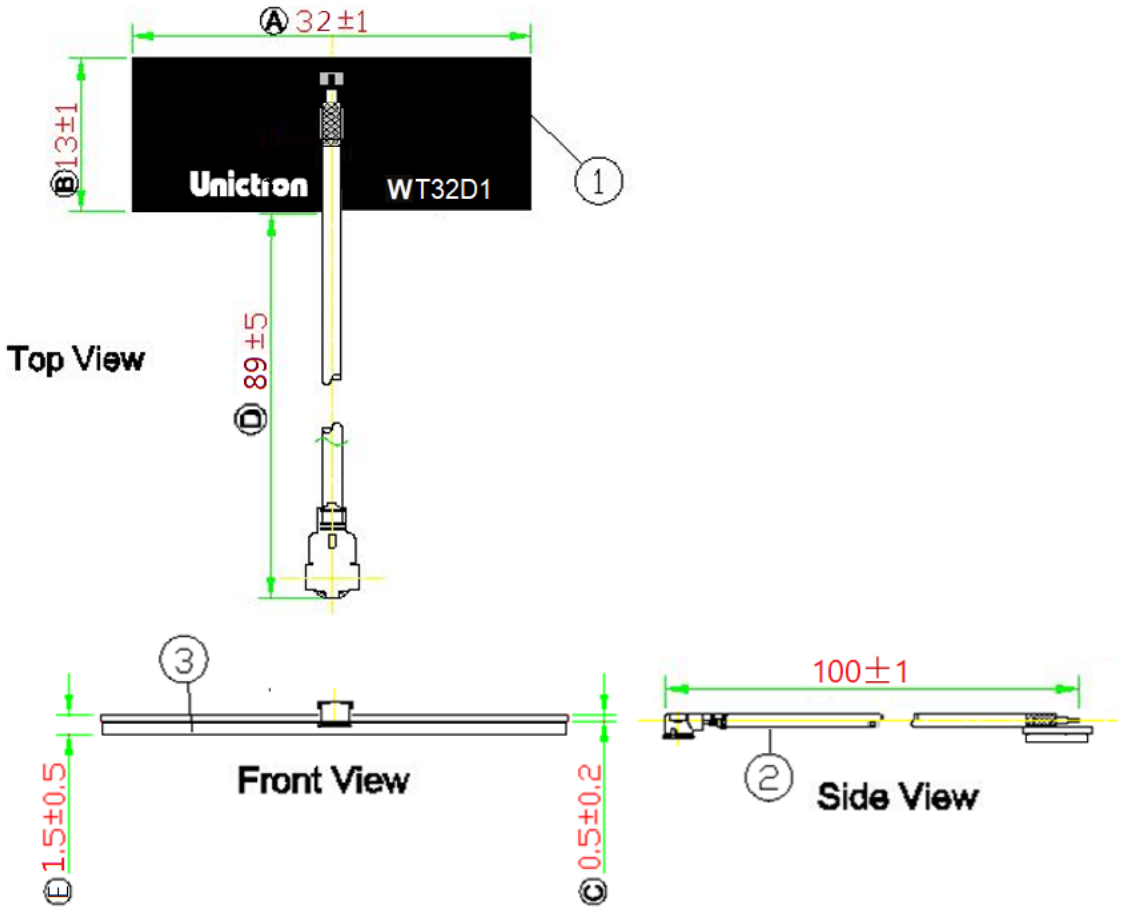
Version: B

I. Specifications:

Items	Specifications		
Frequencies (MHz)	2400~2485	5150~5850	5925~7125
VSWR	<2 Typ.		
Efficiency (%)	79 Typ.	69 Typ.	63 Typ.
Average Gain (dB)	-1.0 Typ.	-1.6 Typ.	-2.0 Typ.
Peak Gain (dBi)	2.7 Typ.	3.6 Typ.	4.9 Typ.
Impedance (Ω)	50		
Polarization	Linear Polarization		

Mechanical Specifications	
Dimensions (mm) with Adhesive	32(L) x 13 (W) x 1.5 (H)
Material	FR4
Environmental Conditions	
Operation Temperature (ºC)	-40 ~ +85
Storage Temperature (ºC) **(Antenna with packing sealed)**	-5 ~ +40
Relative Humidity	10 ~ 70 %
UL94 rating	V-0

II. Dimensions of antenna with cable (unit: mm)

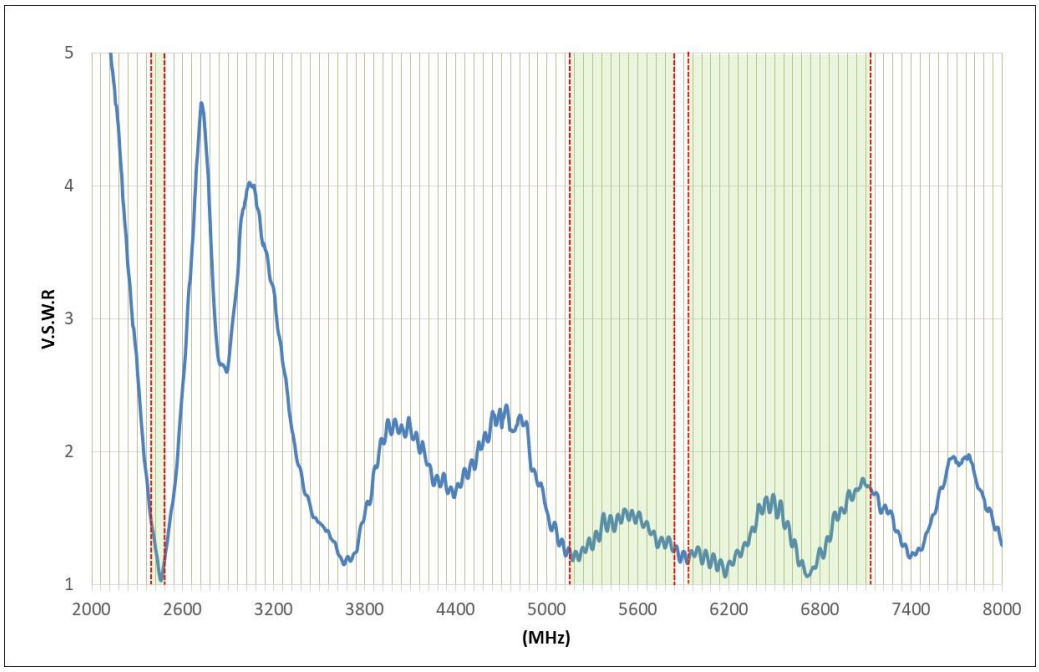


NOTE:
1.All materials are RoHS2.0 compliant.
2."Ⓐ~Ⓔ" Critical Dimensions.
3."( )" Reference Dimensions.

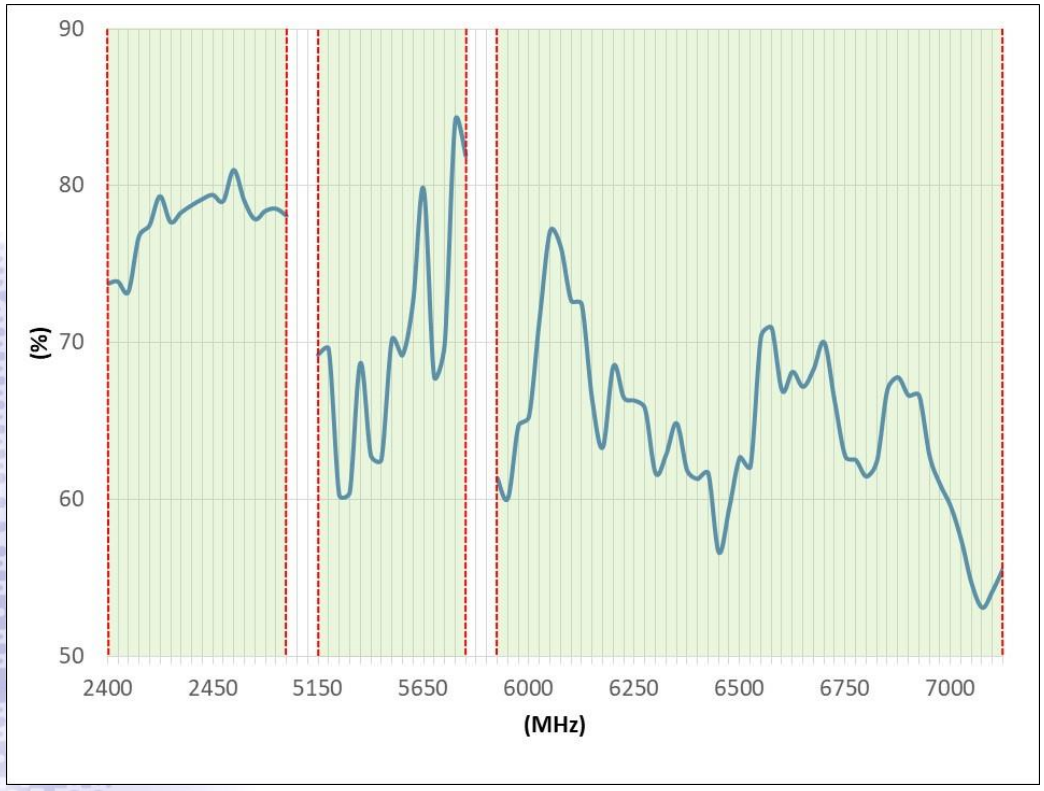
Item	Name	Material	Color	Q'ty
1	WT32D1_PCB (32mm*13mm*0.5mm)	FR4	Black	1
2	I-PEX Connector (MHF I) _ Cable1.13mm	FEP	Gray	1
3	Adhesive (3M 9810T-1T)	-	-	1

III. Properties:

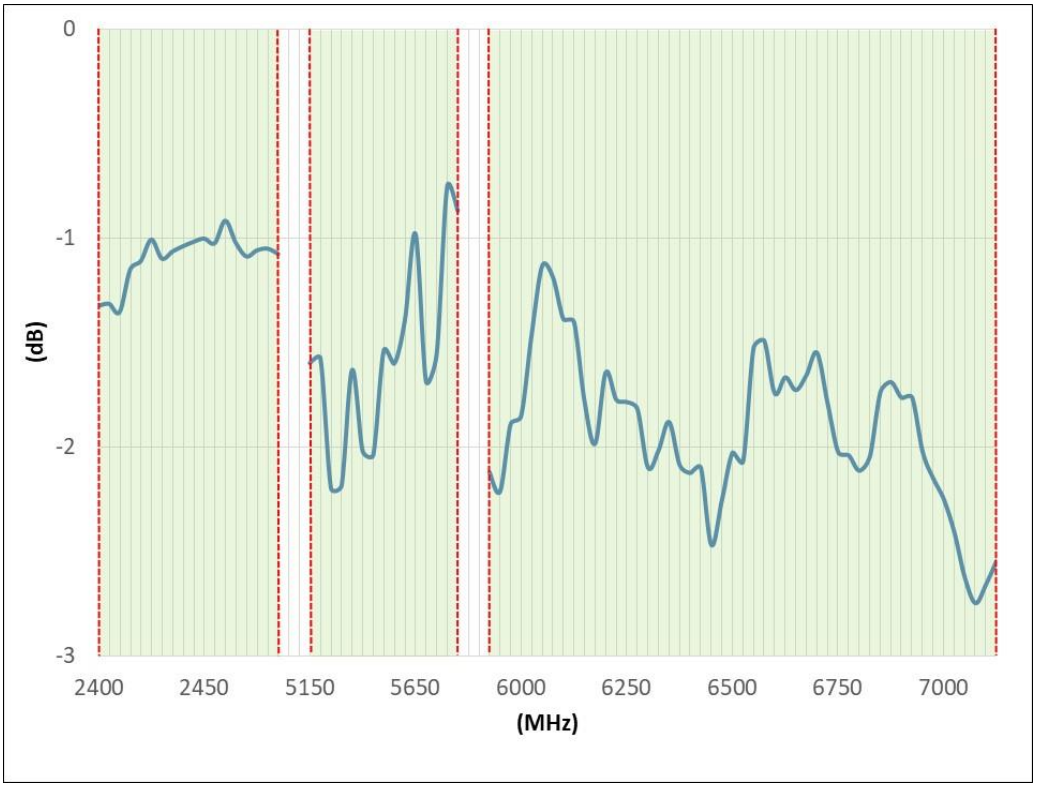
a) VSWR



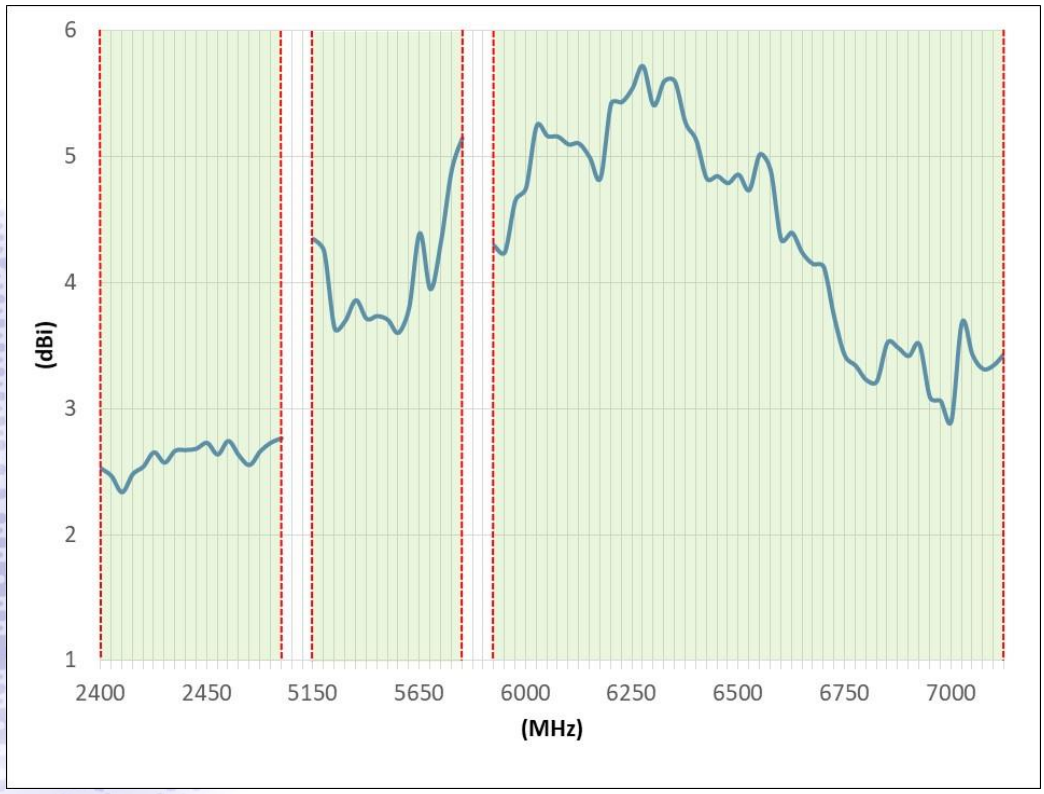
b) Efficiency (%)



c) Average Gain (dB)



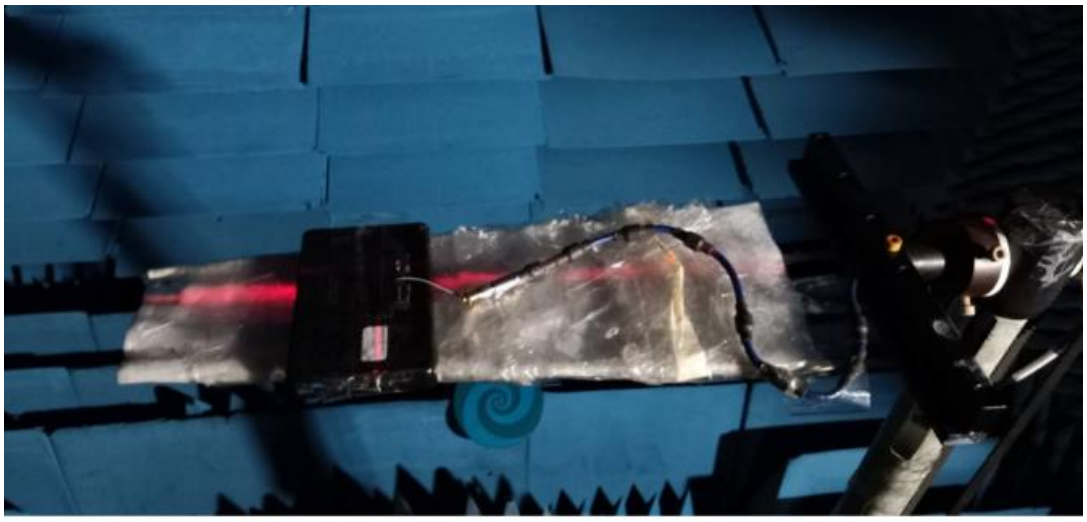
d) Peak Gain (dBi)



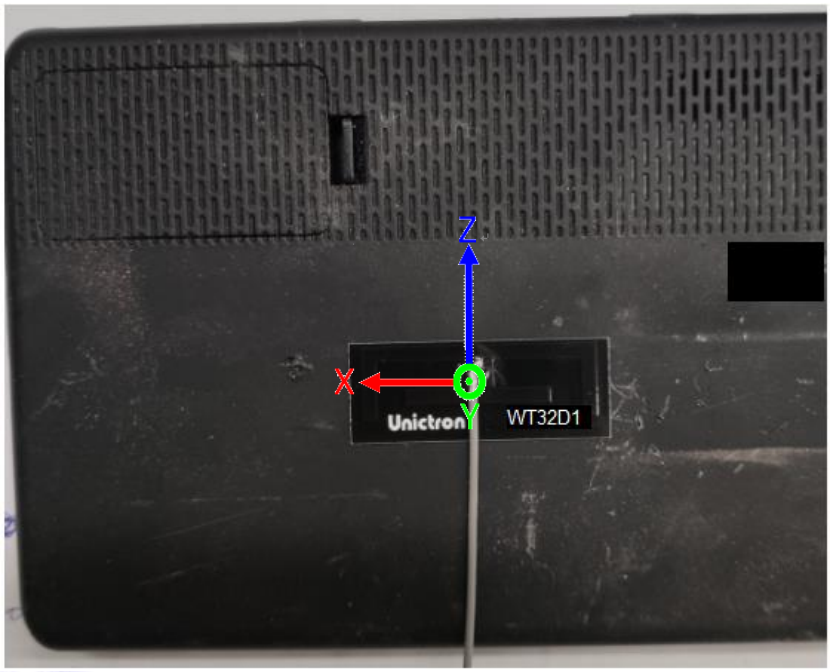
IV. Antenna Radiation Pattern Measurement:

The antenna radiation patterns are measured in Unictron's 3D Anechoic Chamber.

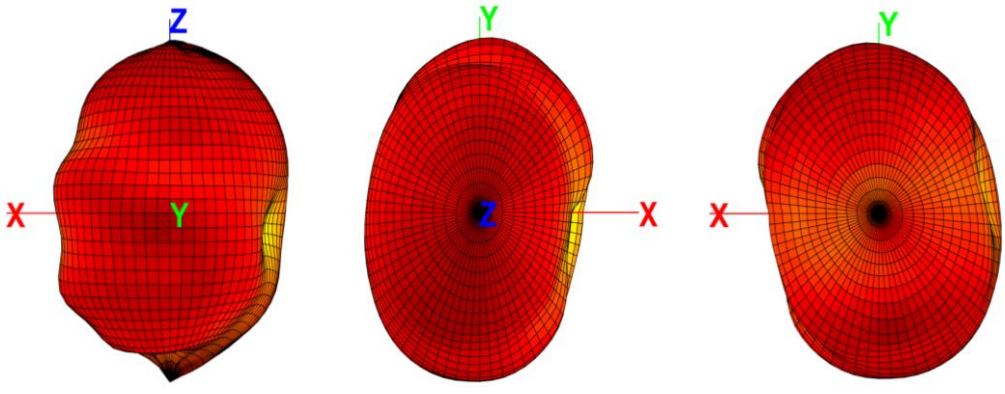
The measurement setup is as show below.

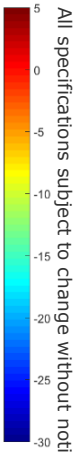


3D Radiation Gain Pattern

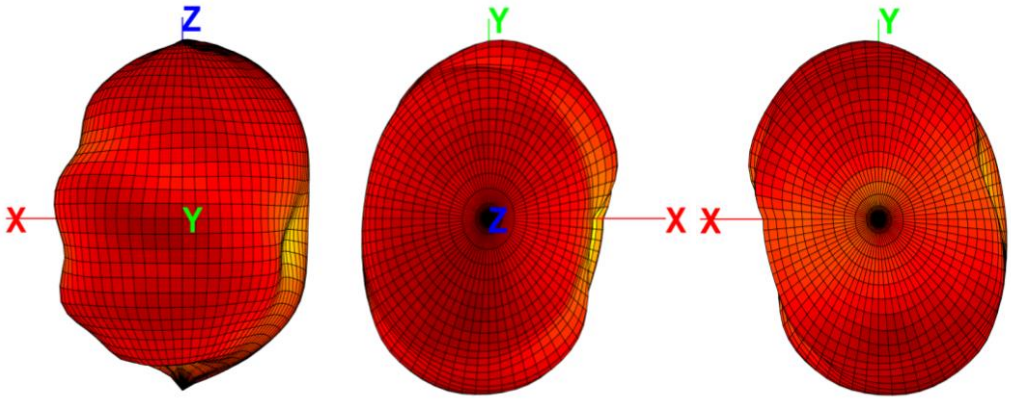


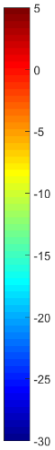
a) 2400 MHz (unit: dBi)



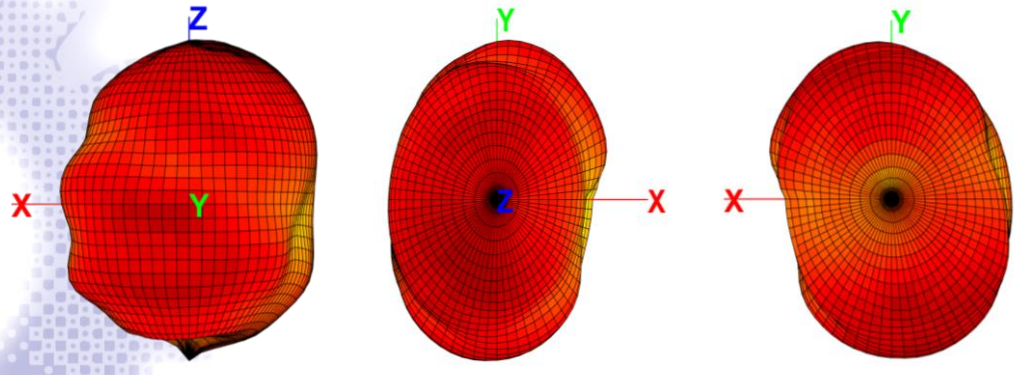


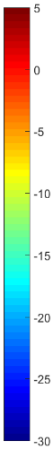
b) 2445 MHz (unit: dBi)



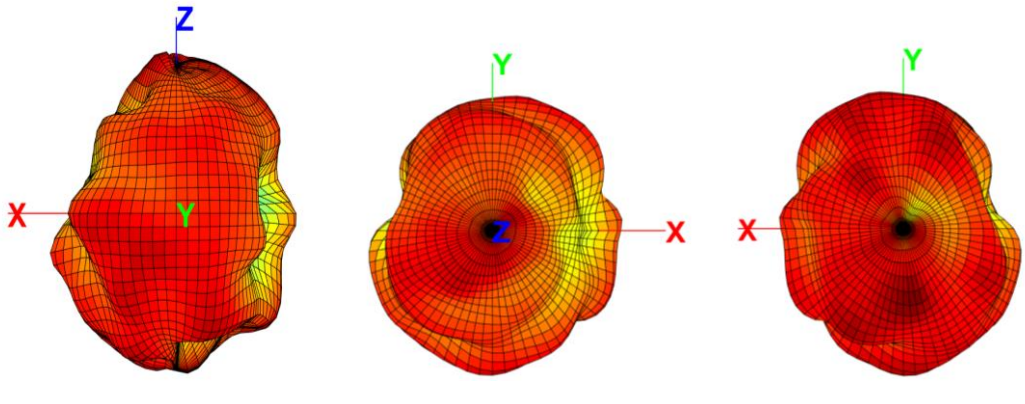


c) 2485 MHz (unit: dBi)

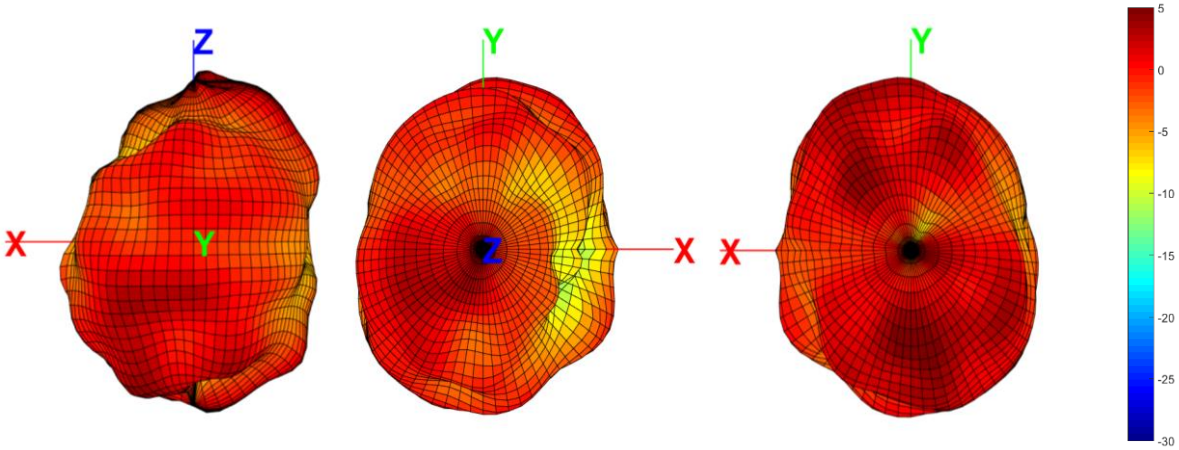




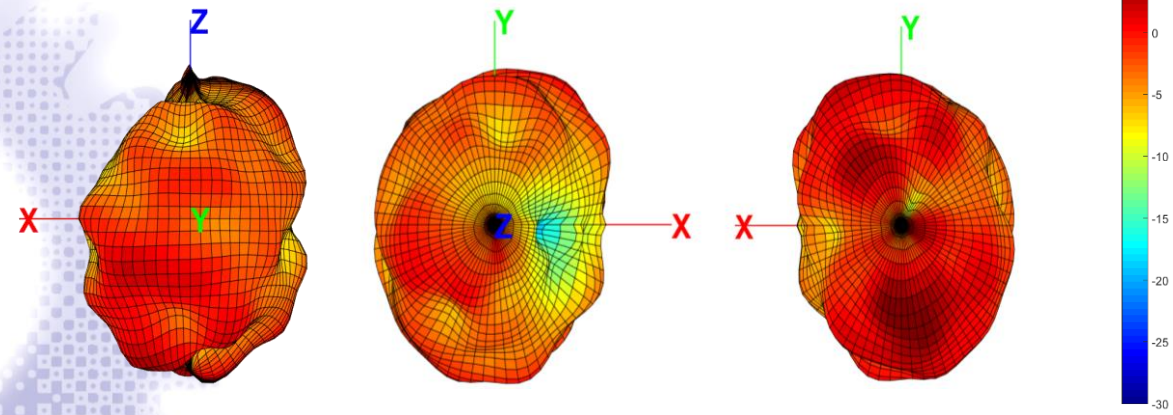
d) 5150 MHz (unit: dBi)



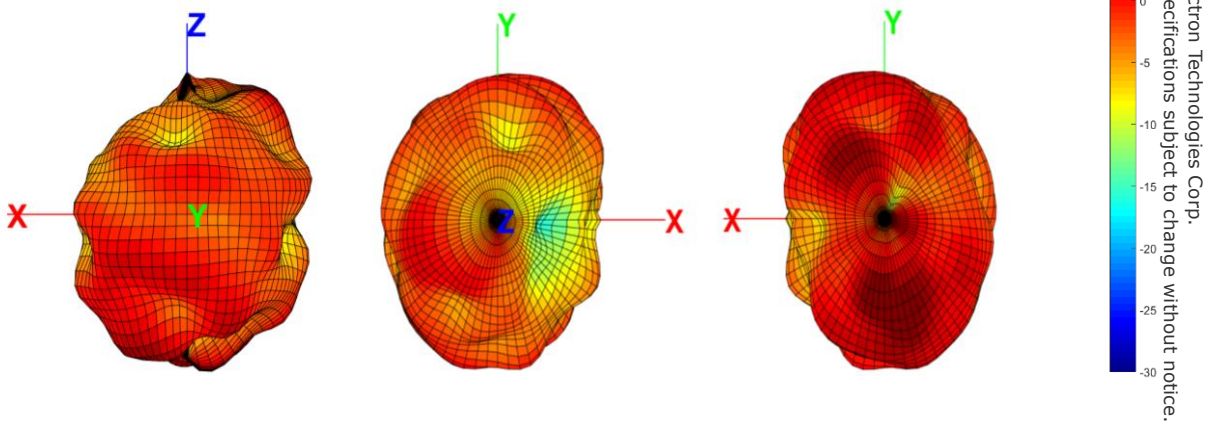
e) 5550 MHz (unit: dBi)



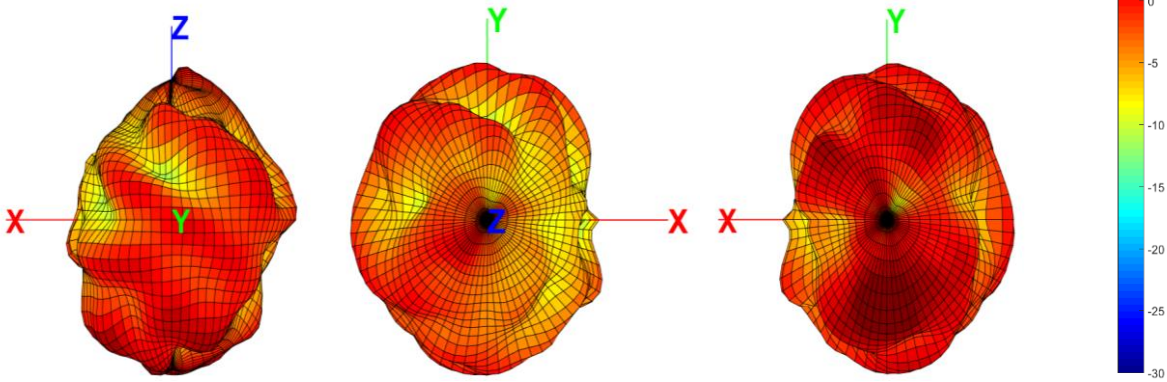
f) 5850 MHz (unit: dBi)



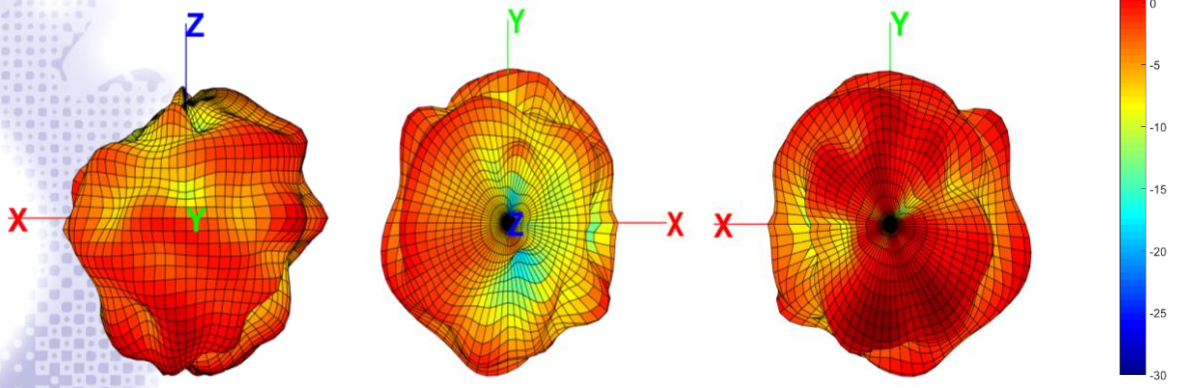
g) 5925 MHz (unit: dBi)



h) 6500 MHz (unit: dBi)



i) 7125 MHz (unit: dBi)



V. Packing:

a) Weight:

Unit Weight: 1± 0.1 (g)

b) Quantity:

Each PE Bag: 25 pcs

Each Outer Box: 5,000 pcs

Process	Photos	Remark
1		Put 25 pcs in a PE bag and attach label on PE bag.
2		Put 200 PE bags into an outer box with 5,000 pcs of antenna inside.

VI. MHF Connector Instruction Manual:

1. How to hold a cable connector

Hold the both ends of cable connector as show in Fig.1.

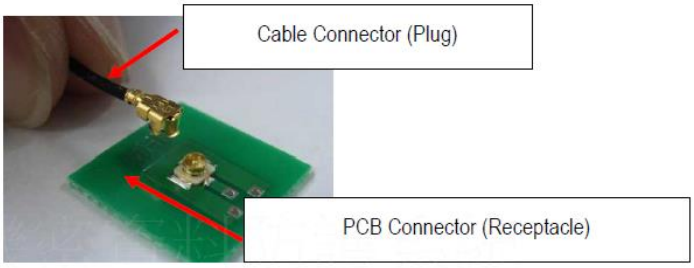


Fig.1

2. Which direction to mate

Set connectors of the board side and of the cable side as shown in Fig.2.
Please check they are set firmly by moving back and forth slightly.

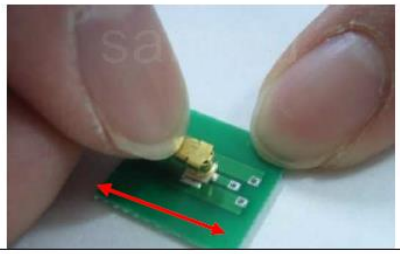


Fig.2.

Move back and forth slightly. They should not move.

CAUTION

Please make sure to set the cable side connector parallel to the board as shown in Fig.3.
If you mate in not parallel condition as shown in Fig.4, connector will be damaged

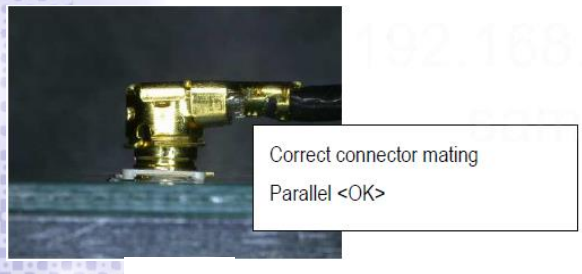


Fig 3.

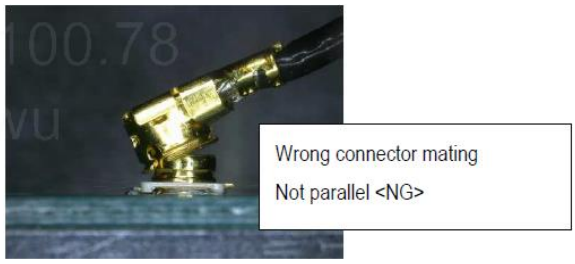


Fig 4.

3. How to mate

Push cable connector at its center location vertically as show in Fig.5. When click sound can be heard ”the connector mating action is complete”.

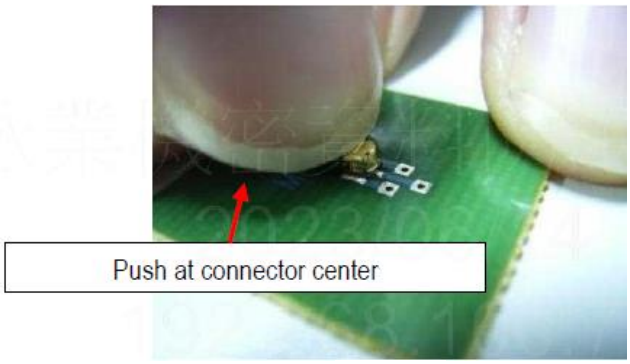


Fig 5.

(CAUTION IN CABLE CONNECTOR HANDLING)

In the case of Fig.6, it has possibility to damage to the housing and come off from receptacle connector.

Especially when operator give continuous force to the direction (black allow), the tendency become higher.

So please take care of handing harness

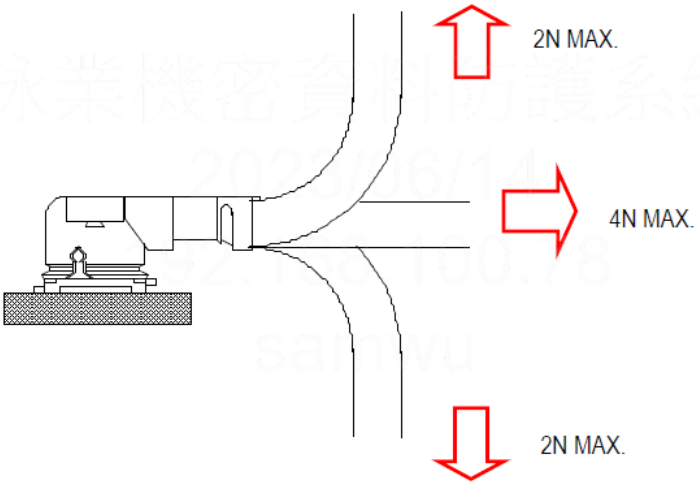


Fig 6.