



Product Name: LTE Hinge Rotatable Terminal Antenna

Part Number: TA-C12B-A-L02

Features:

- Support LTE 698-960MHz, 1710-2690MHz, 3300-3500MHz
- Hinge Rotatable, 90 Degree
- Connector: SMA Male
- RoHS & REACH Compliant

Applications:

- LTE Router Application
- Smart Metering Application
- IoT Device Application

LTE Hinge Terminal Antenna

MODEL: TA-C12B-A-L02

Rev.A

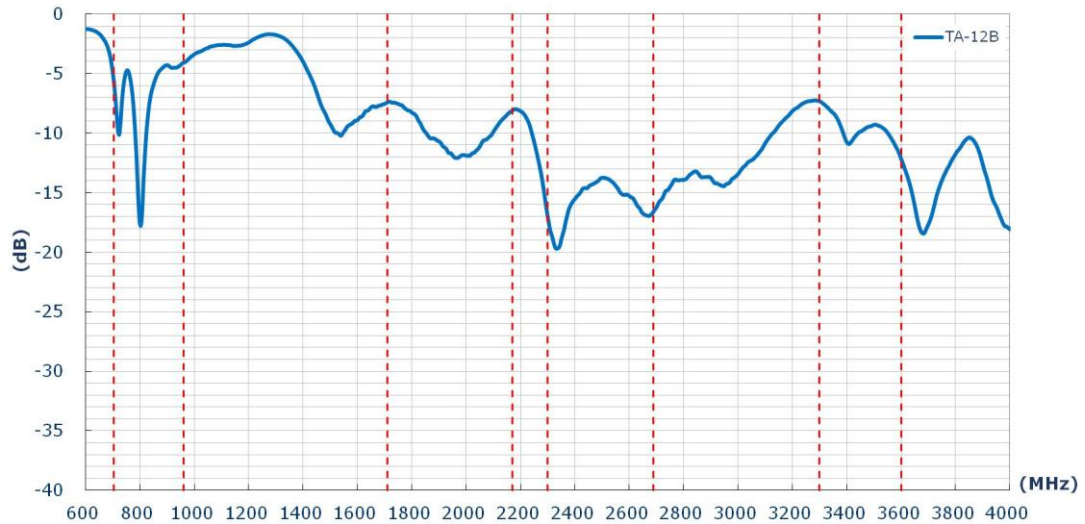
I. Specifications:

Items	Specifications						
LTE Electrical Characteristics							
Frequencies (MHz)	698 ~ 824	824 ~ 960	1710 ~ 1880	1850 ~ 1990	1920 ~ 2170	2300 ~ 2690	3300 ~ 3500
Efficiency (%)	64.15	54.34	66.46	85.77	78.77	73.71	65.46
Average Gain (dBi)	-1.93	-2.65	-1.77	-0.67	-1.04	-1.33	-1.84
Peak Gain (dBi)	2.76	2.87	3.16	5.46	5.46	5.38	5.59
V.S.W.R	< 3						
Return Loss (dB)	< -5						
Test Condition	210 x 125 mm ² (Ground Plane)						
Impedance	50 Ω						
Polarization	Linear						
Physical Condition							
Dimension (mm)	196.00(L) x 26.90(W) x 14.40(T)						
Connector	90° hinged SMA(M)						
Environmental Conditions							
Operation Temperature	-40 ~ +85 °C						
Storage Temperature	-40 ~ +85 °C						
Relative Humidity	95% non-condensing						

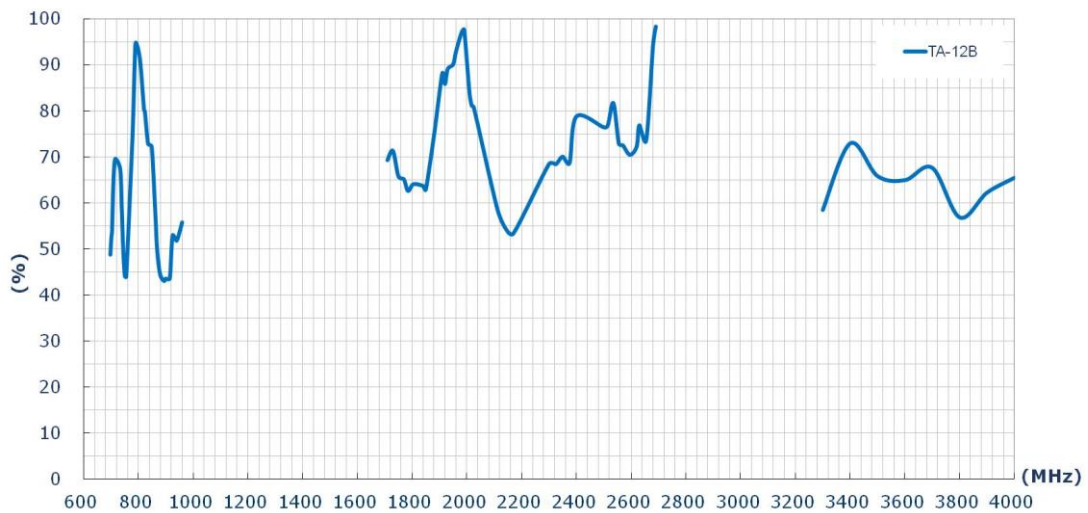
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II. Antenna Technical Parameters:

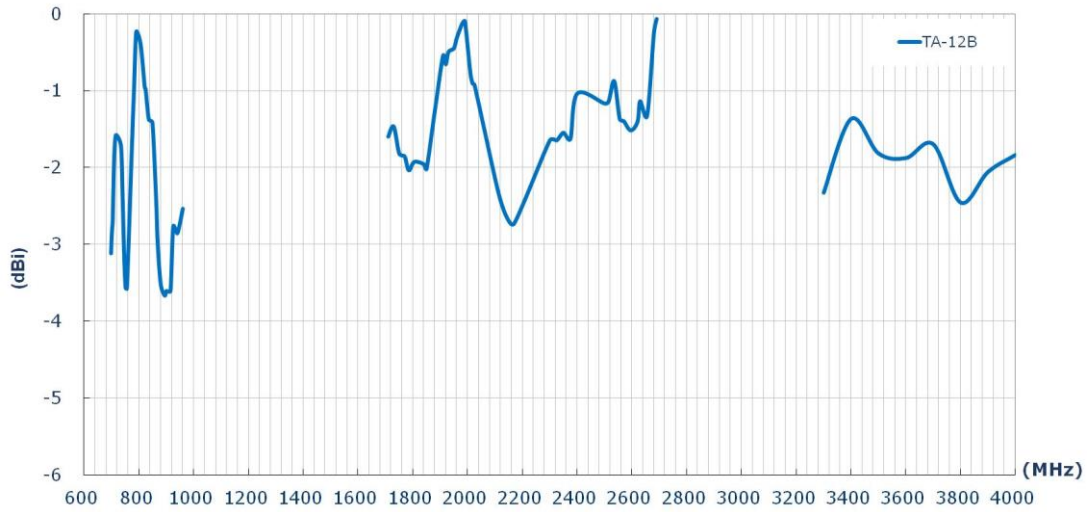
S11 (dB)



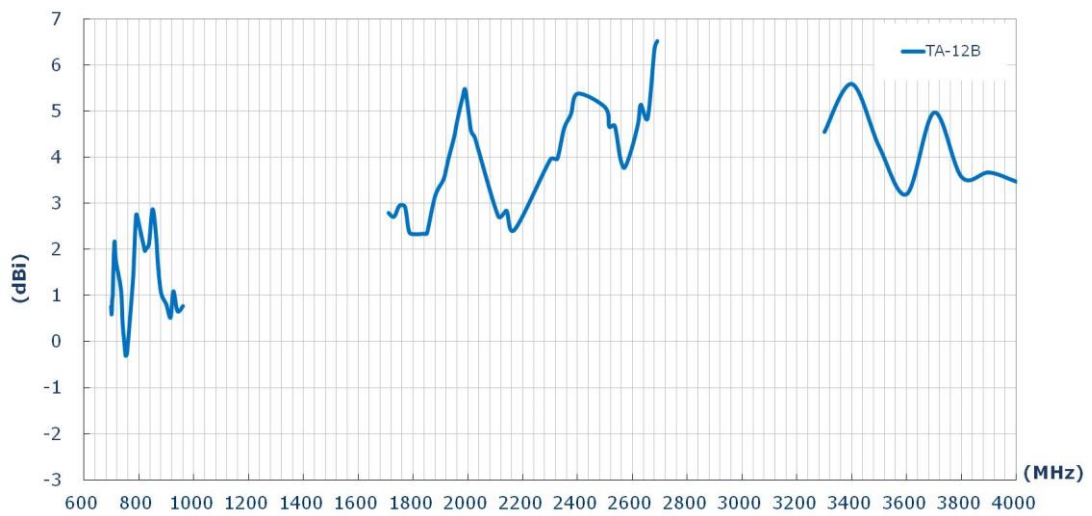
Efficiency (%)



Average Gain (dBi)

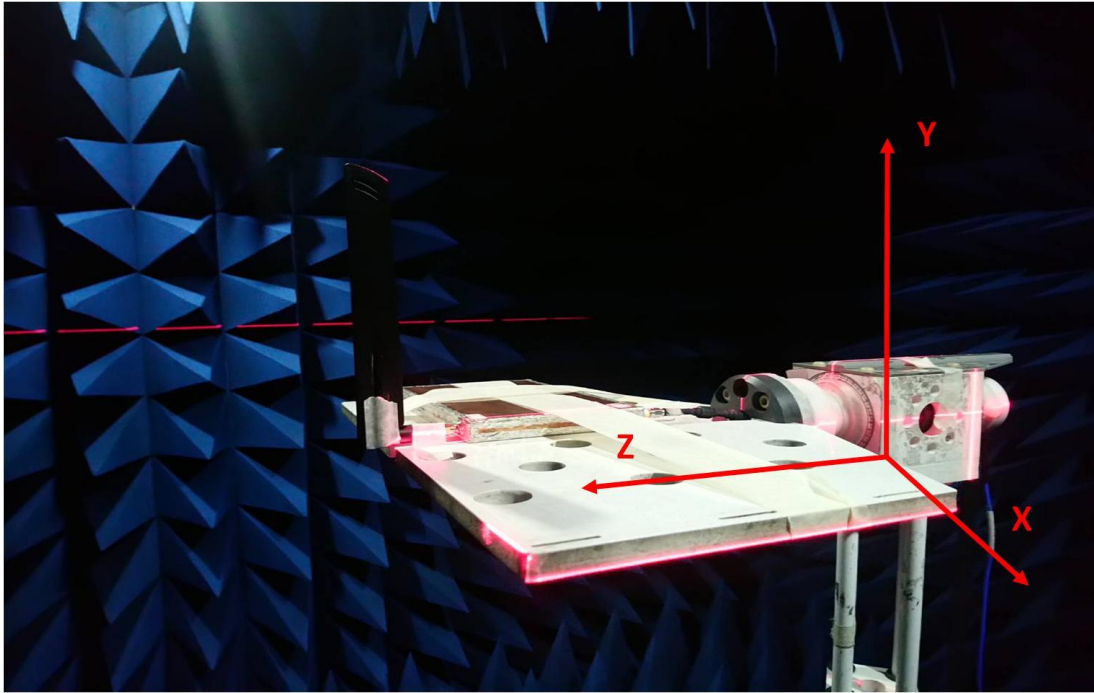


Peak Gain (dBi)



III. Antenna Radiation Pattern Measurement:

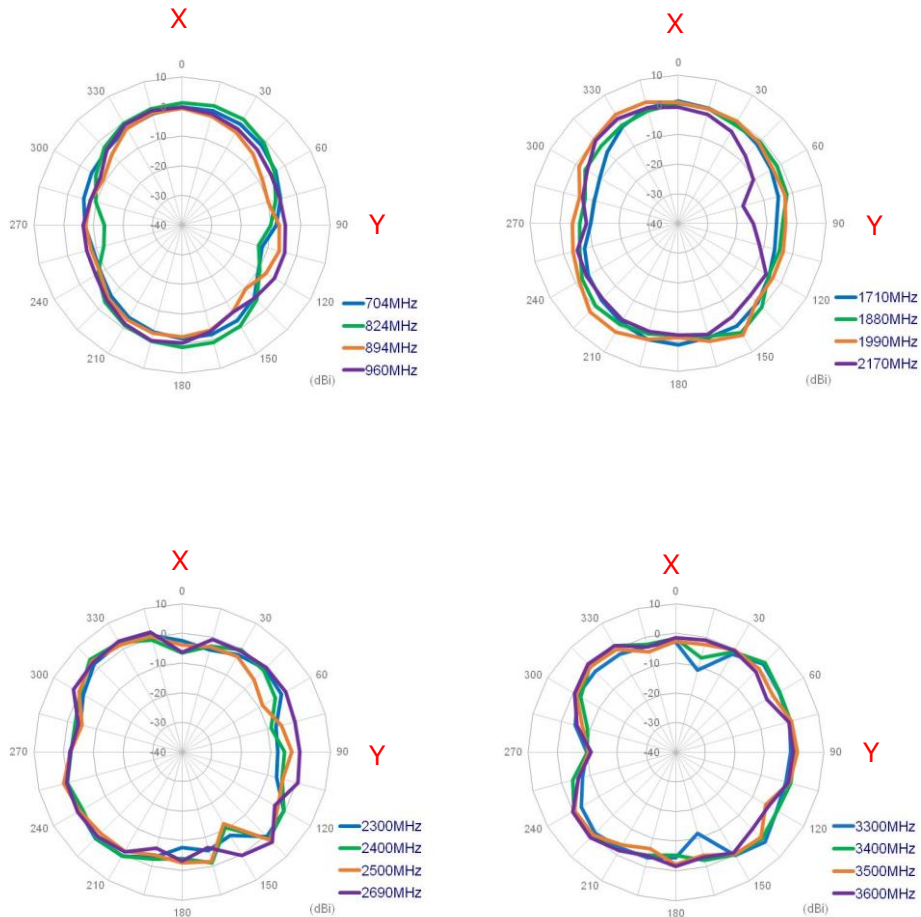
The antenna radiation patterns are measured in 3D Anechoic Chamber.
The measurement setup is as show below,



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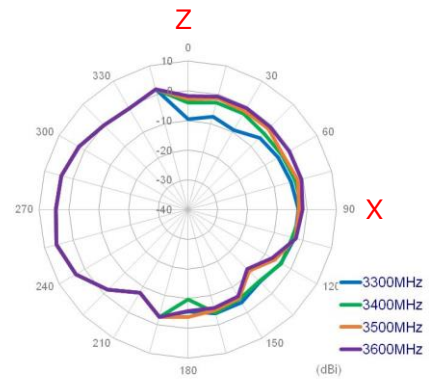
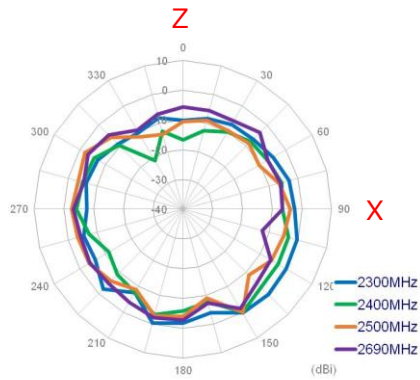
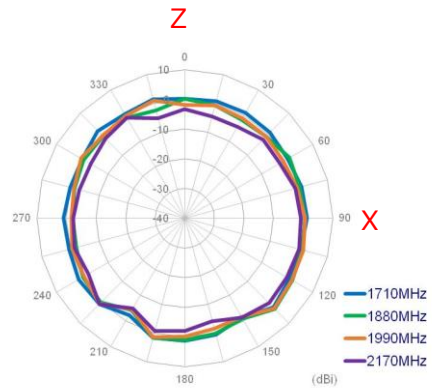
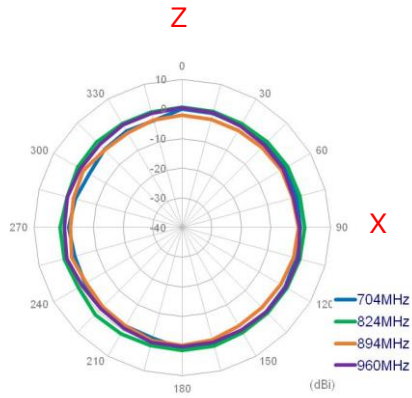
IV. 2D Radiation Pattern:

X-Y plane



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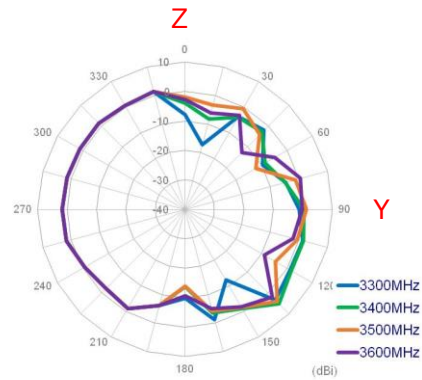
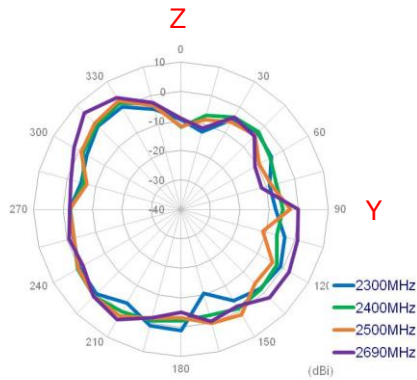
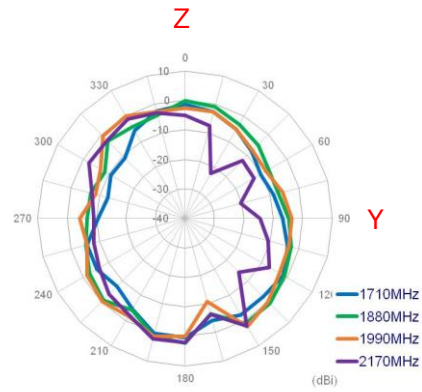
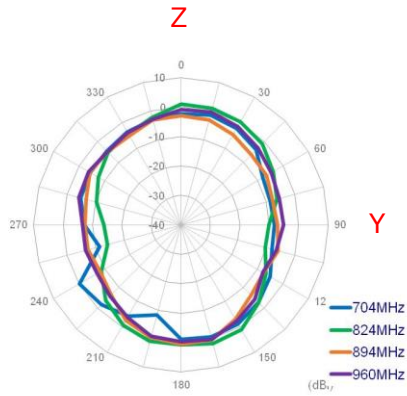
X-Z plane



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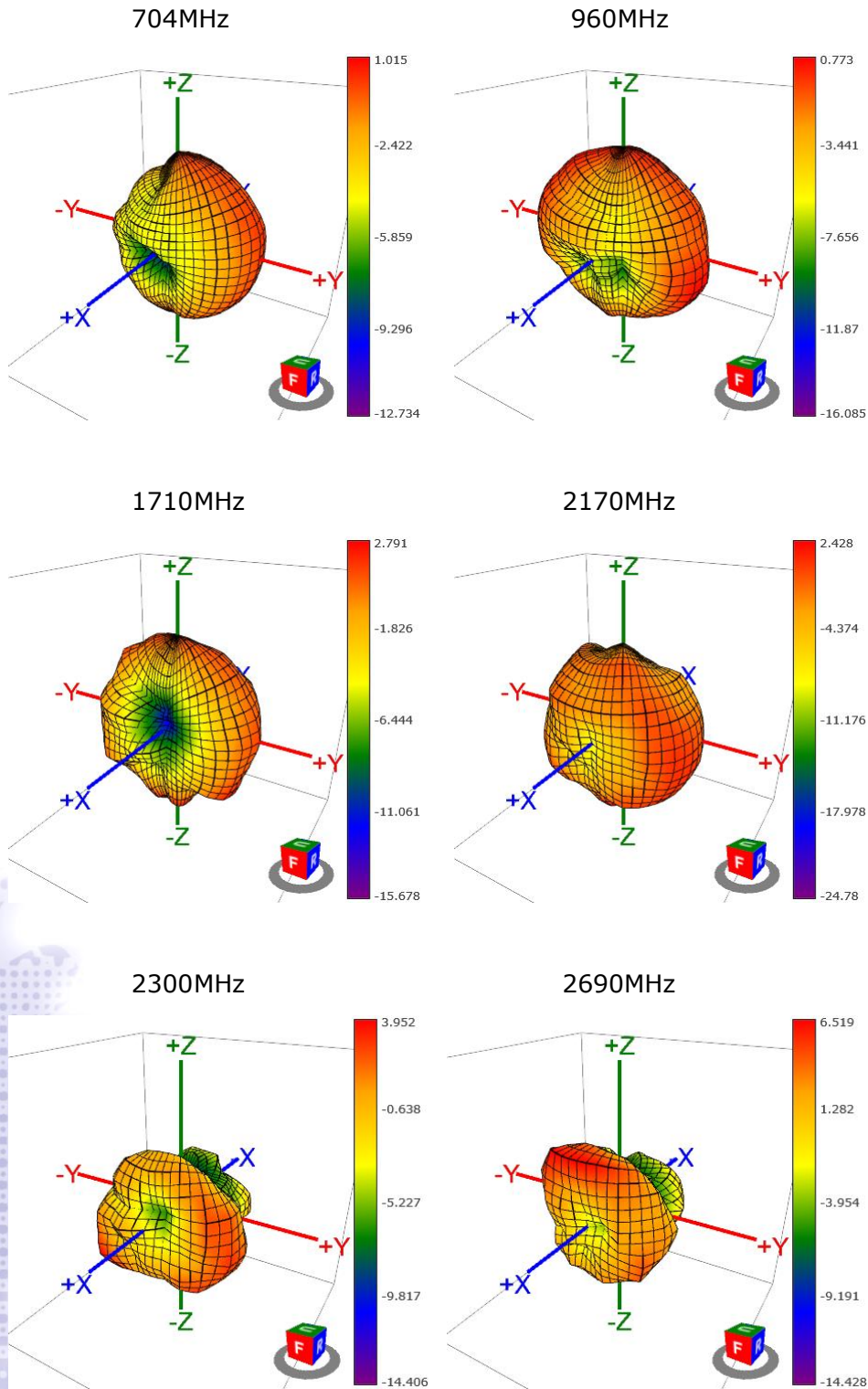


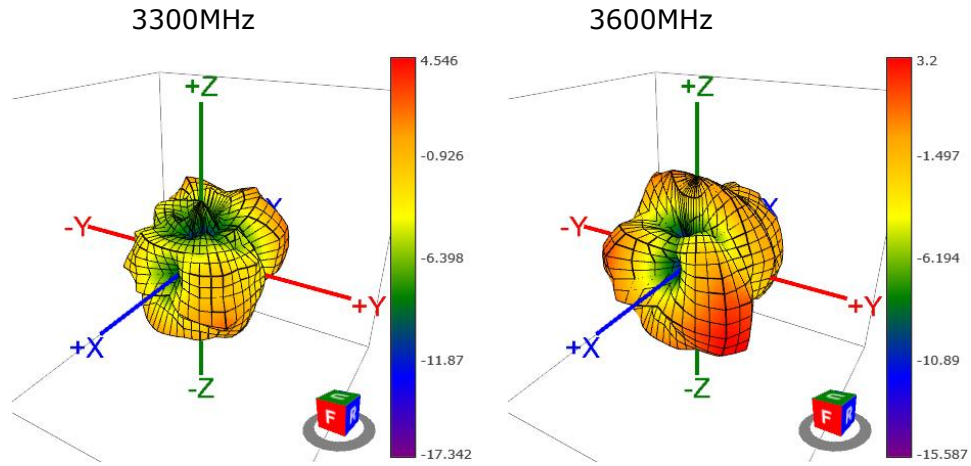
Y-Z plane



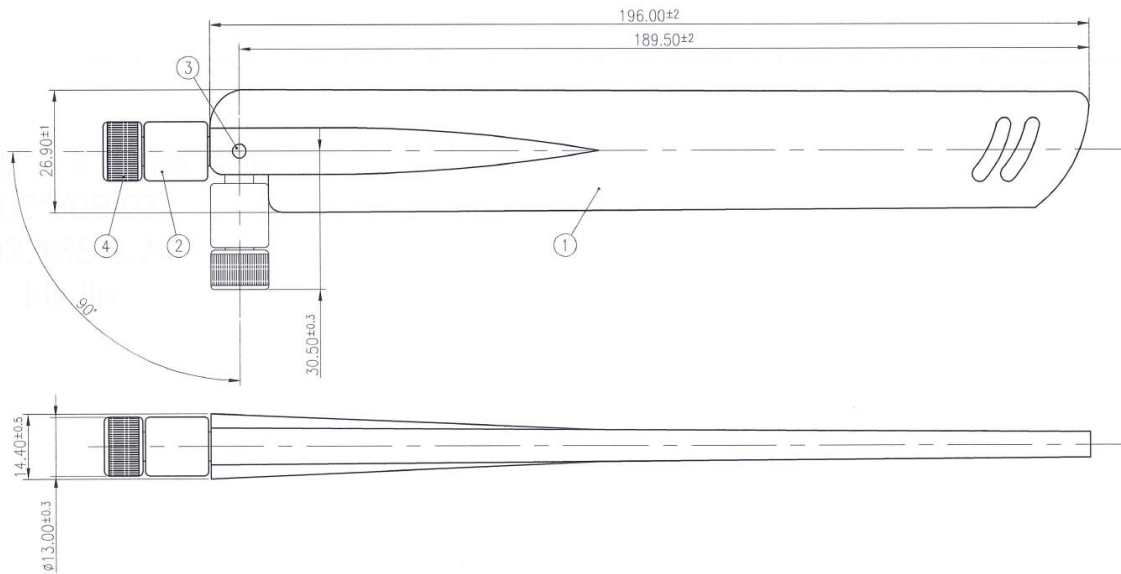
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V. 3D Radiation Pattern:





VI. Mechanical Drawing (Unit:mm):



Notes:
1. All material must be RoHS compliant.

4	SMA(M) Connector	PBT	Black	1
3	Fixed Pin	PC	Black	1
2	Base	PBT	Black	1
1	Body	TPEE	Black	1
No	NAME	MATERIAL	FINISH	Q'TY