

RoHS
Compliant

Feature:

- WiFi 2.4G/5.8GHz Bands Supported
- Bluetooth/Zigbee 2.4GHz Band Supported
- Ground Independent
- IPEX MHFI Connector

- Gateway and Router
- Connected Medical Device
- Smart Wearable
- Smart Home



WiFi/Zigbee/Bluetooth Dual Band Flexible PCB Antenna, IPEX MHFI

MODEL: FP-WE05-01

WI-RD-D-191 V1.0

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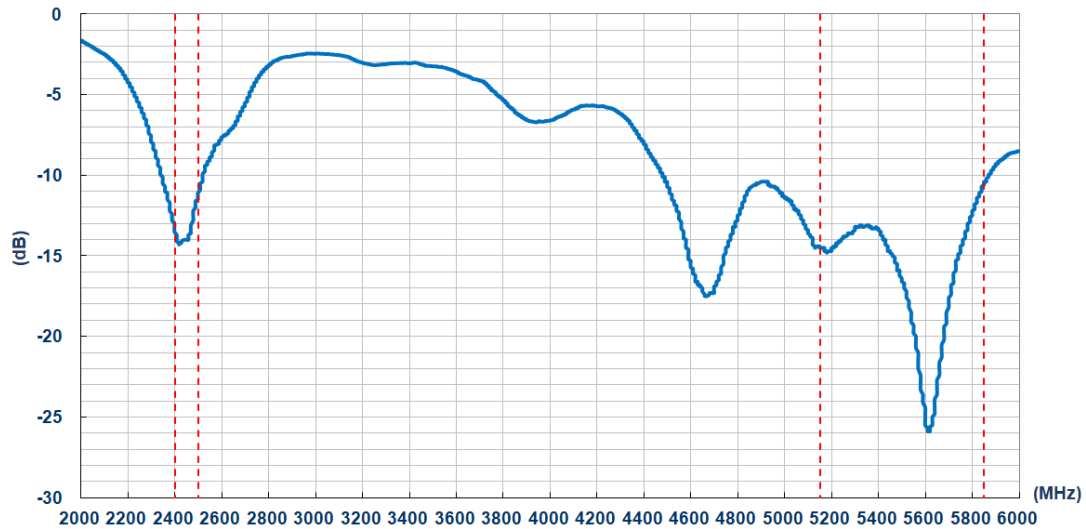
I. Specifications:

Category	Specifications						
Electrical Characteristics							
Polarization	Linear						
Frequency (MHz)	2400	2450	2500	5150	5350	5750	5850
Efficiency (%)	55.08	55.59	57.54	73.45	70.47	74.82	55.85
Average Gain (dBi)	-2.59	-2.55	-2.40	-1.34	-1.52	-1.26	-2.53
Peak Gain (dBi)	1.78	1.97	2.75	3.66	4.52	5.47	4.29
V.S.W.R	< 2						
Return Loss (dB)	< -10						
Impedance (Ω)	50						
Physical Condition							
Dimension (mm)	32.5(L) x 31.1(W) x 0.25(T)						
Connector	IPEX MHFI						
Cable	1.37 mm Mini-Coax						
Cable Length (mm)	100						
Environmental Conditions							
Operation Temperature	-40 ~ +85 °C						
Storage Temperature	-40 ~ +85 °C						
Relative Humidity	95% non-condensing						

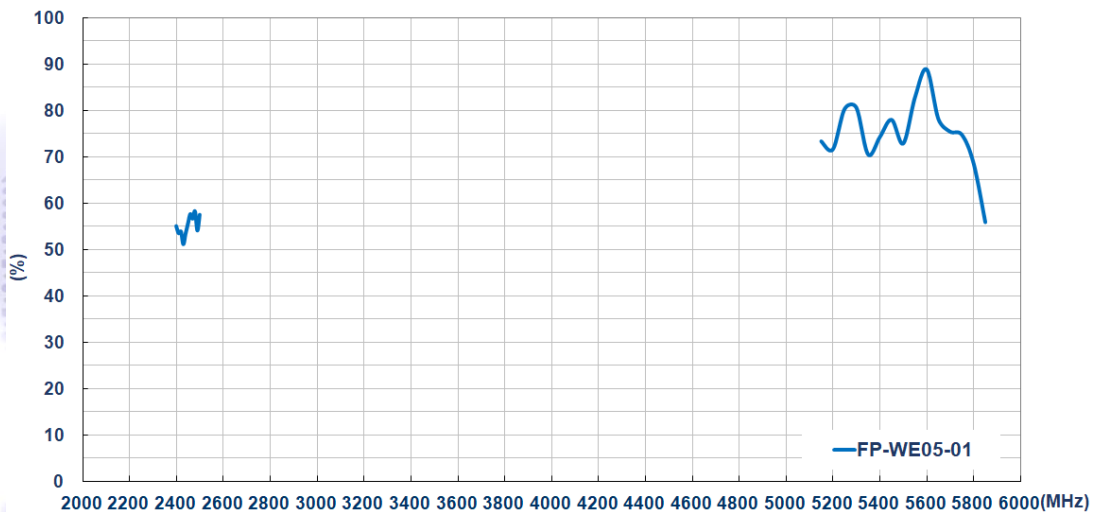


II. Antenna Technical Parameters:

S11-parameters (dB)

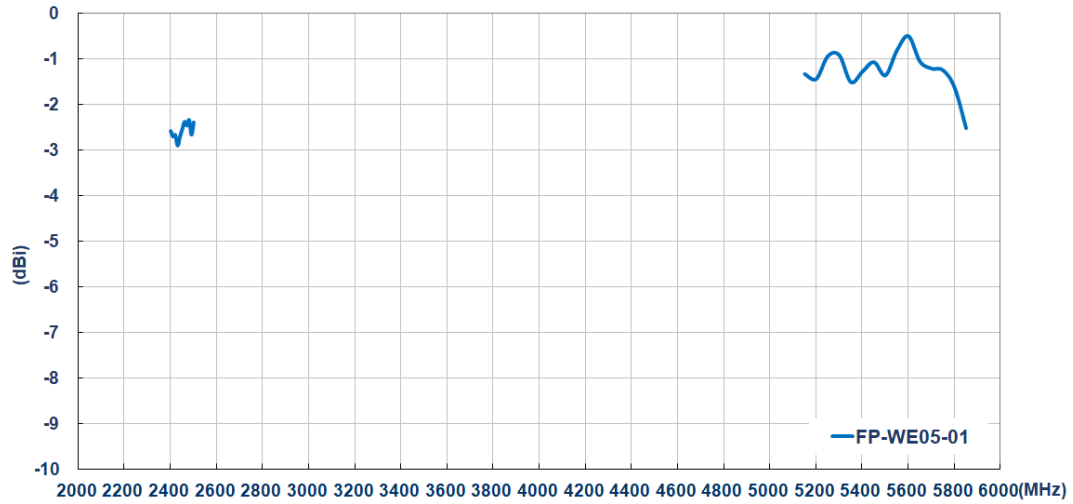


Efficiency (%)

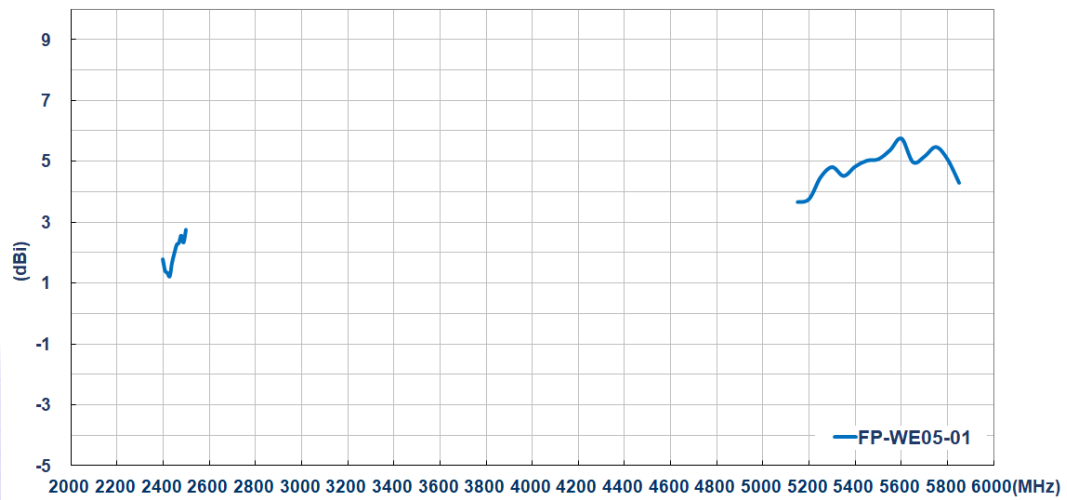


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Average Gain (dBi)

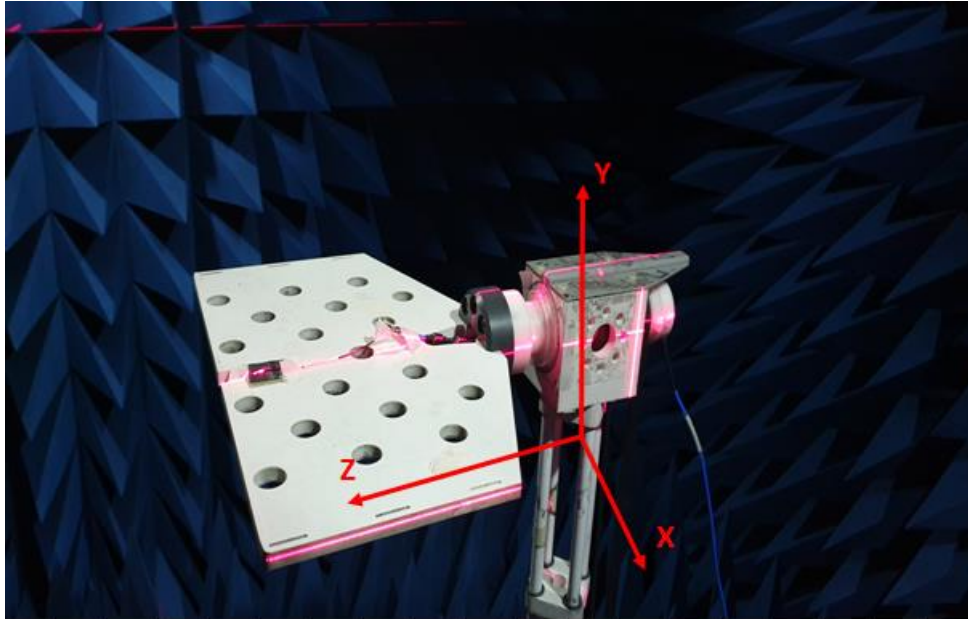


Peak Gain (dBi)



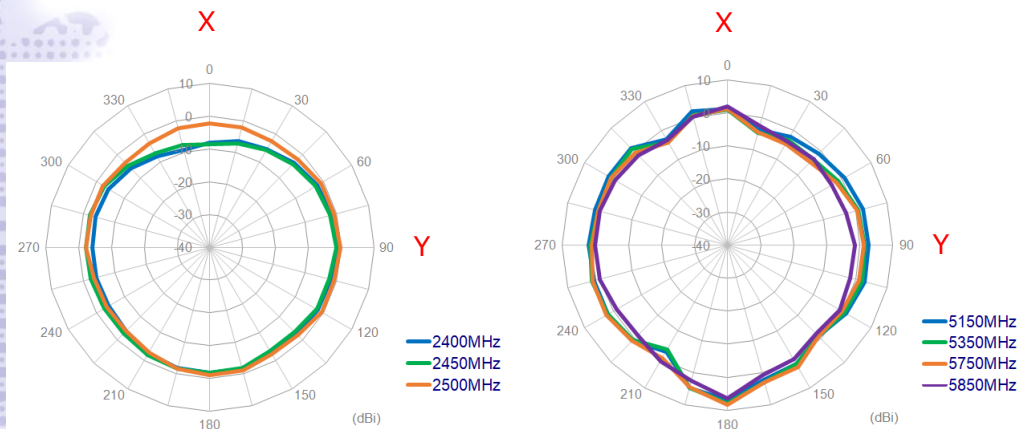
III. Antenna Radiation Pattern Measurement:

The antenna radiation patterns were measured in Anechoic Chamber.
The measurement setup as below,

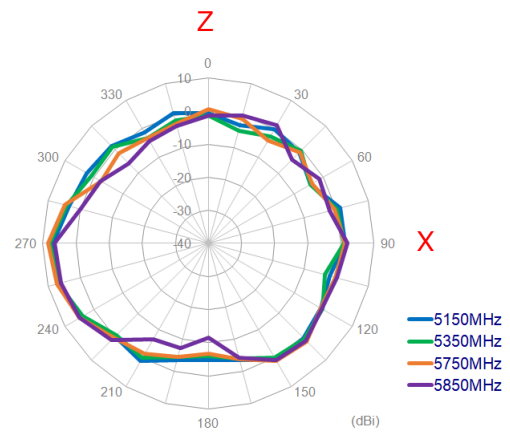
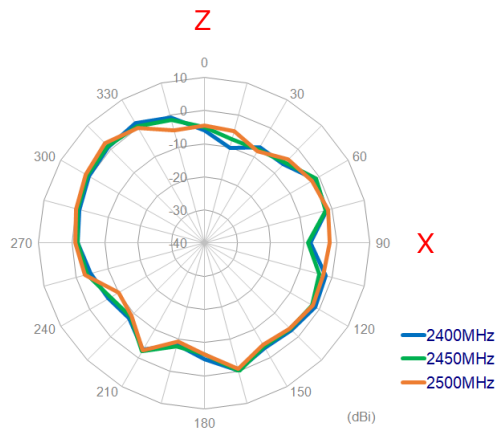


IV. 2D Radiation Pattern:

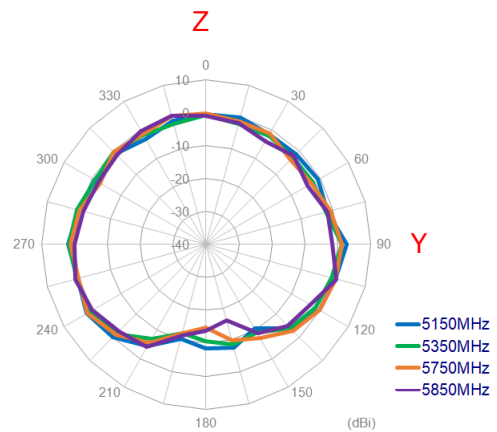
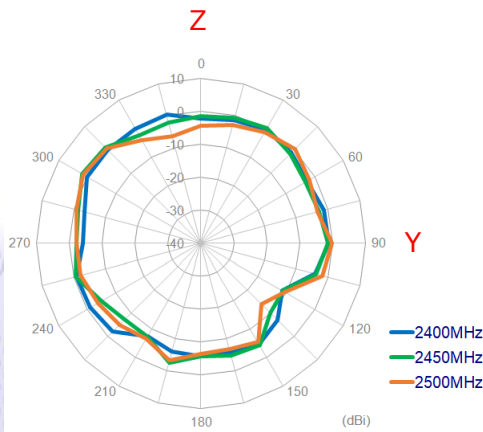
X-Y plane



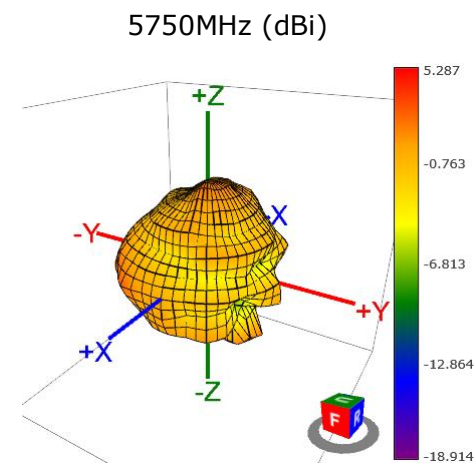
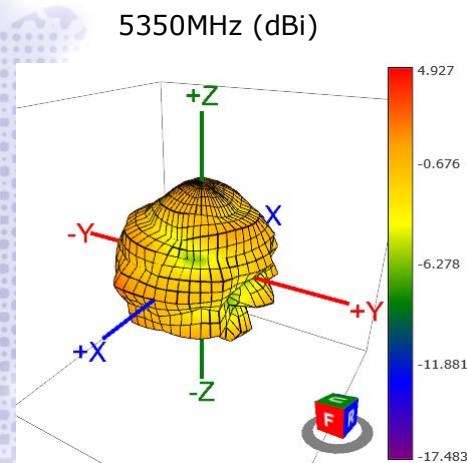
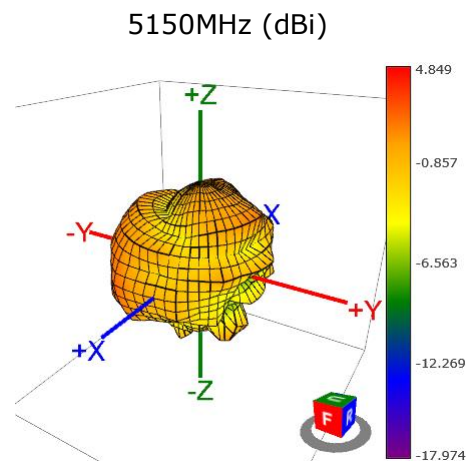
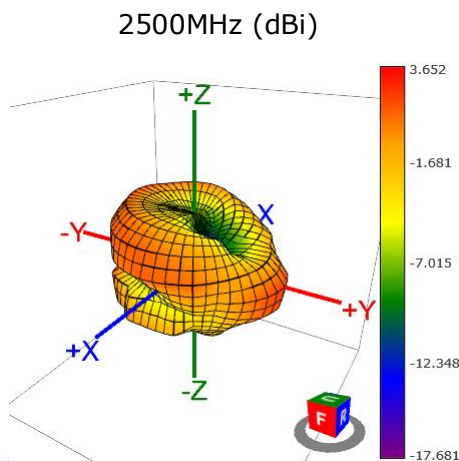
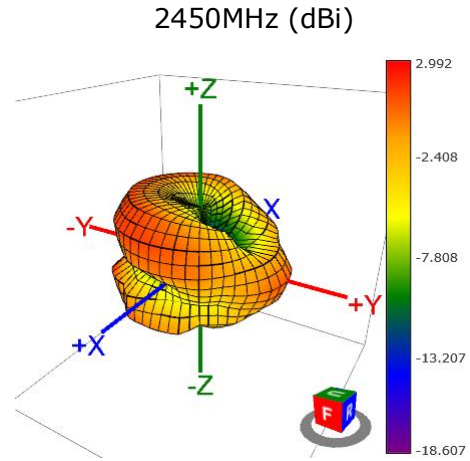
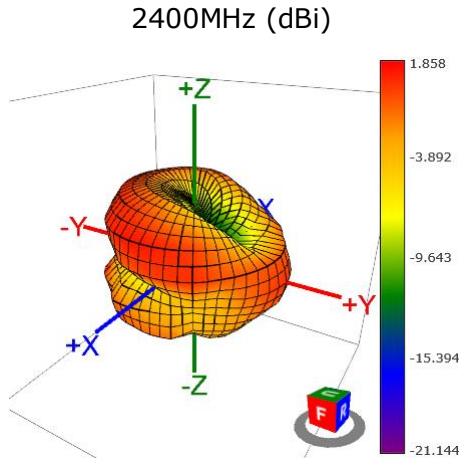
X-Z plane



Y-Z plane

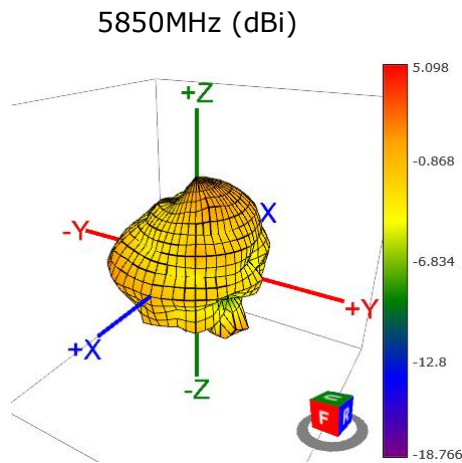


V. 3D Radiation Pattern:

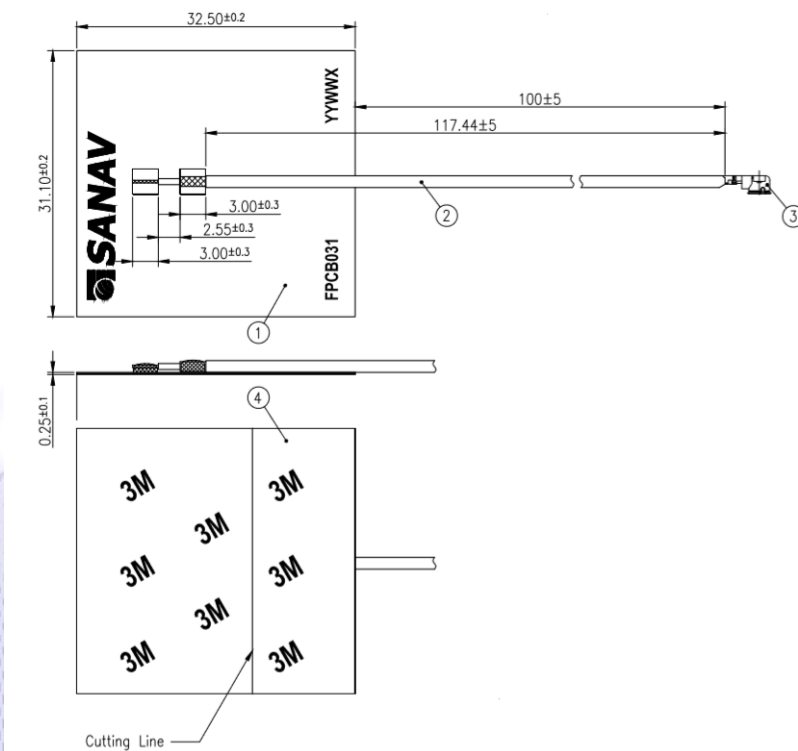


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VI. Mechanical Drawing (Unit:mm):



4	Double-Sided Adhesive	3M 467	Brown Liner	1
3	IPEX MHF(20351-112R-37)	Brass	Au Plated	1
2	1.37 Coaxial Cable	FEP	Black	1
1	FPCB031	Polymer 0.25t	Black	1
No	NAME	MATERIAL	FINISH	Q'TY

