

Regulatory WLAN Antenna Information (Template)

English Language Required for Regulatory Review / Approval

Platform information						
Brand	Tester's name	Tester's signature	Test Date	platform (ex: Yes, No or NA)	Platform type (ex: regular NB, convertible PC, AIO...etc)	*SAR minimum separation (mm)
Hong-Bo	Eason Tseng	<i>Eason Tseng</i>	2020/12/16	NA	WiFi PIFA	
<p>*****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.</p>						
Antenna information						
Vendor		Type		Antenna Part number (Main)		
Hong-Bo		PIFA		260-25083		
manufacture name				manufacture address		
Changshu HongBo Telecommunication Technology Co., Ltd.				No. 8, Liuzhou Road, Lushan Industrial Park, Xinxing Development Zone, Changshu City, Jiangsu Province,China		
Peak gain w/ cable loss (dBi)*						
	5.9GHz 5850-5925MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz	
Main	5.09	5.14	5.09	5.16	5.12	

Antenna Information

Section 1. Antenna Assembly Specifications

1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E * Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
260-25083	Hong-Bo	PIFA	50 ohm Coaxial length: 300mm diameter: 1.13LLS Connector type: MHF4L MHF-B13-N-01	5850-5925	5.09	6.38	2.5	1.29
				5925-6425	5.14	6.49	2.5	1.35
				6425-6525	5.09	6.27	2.5	1.38
				6525-6875	5.16	6.61	2.5	1.45
				6875-7125	5.12	6.62	2.5	1.50

Note: The individual antenna gain is by measurement as indicated in above table. For module transmitter supports MIMO and use same antenna at multiple antenna ports. The direction gain values shall follow section FCC KDB 662911 D01.

- 3D Antenna Peak Gain required being test in system basis.

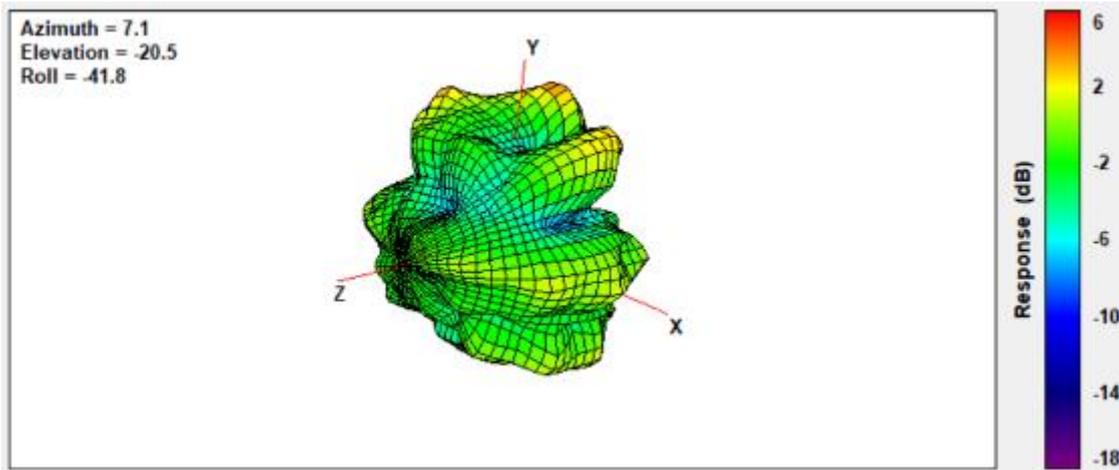
Frequency MHz	Peak Gain (dBi)	Theta angle (°)	Phi angle (°)	Frequency MHz	Peak Gain (dBi)	Theta angle (°)	Pi angle (°)
5850	5.09	120	180	6525	5.08	120	180
5925	5.04	120	180	6645	5.16	120	180
6085	5.03	120	180	6795	5.09	120	180
6245	5.14	120	180	6875	5.12	120	180
6405	5.08	120	180	6975	5.09	75	0
6425	5.09	120	180	7095	5.07	135	165
6465	5.02	120	180	7125	5.07	75	0

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

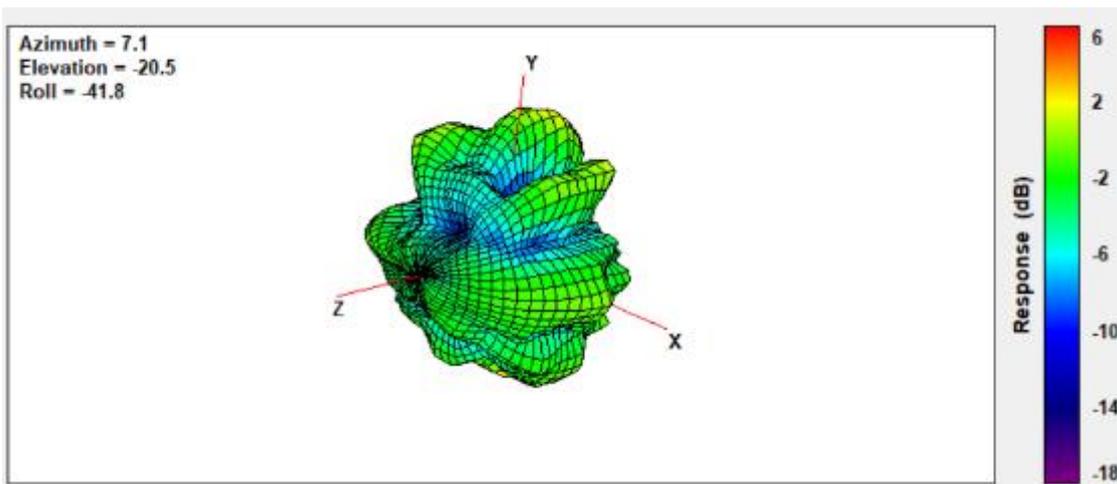
Max Antenna 3D Radiation Pattern 5850-5925 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
5850-5925	5.09	120	180



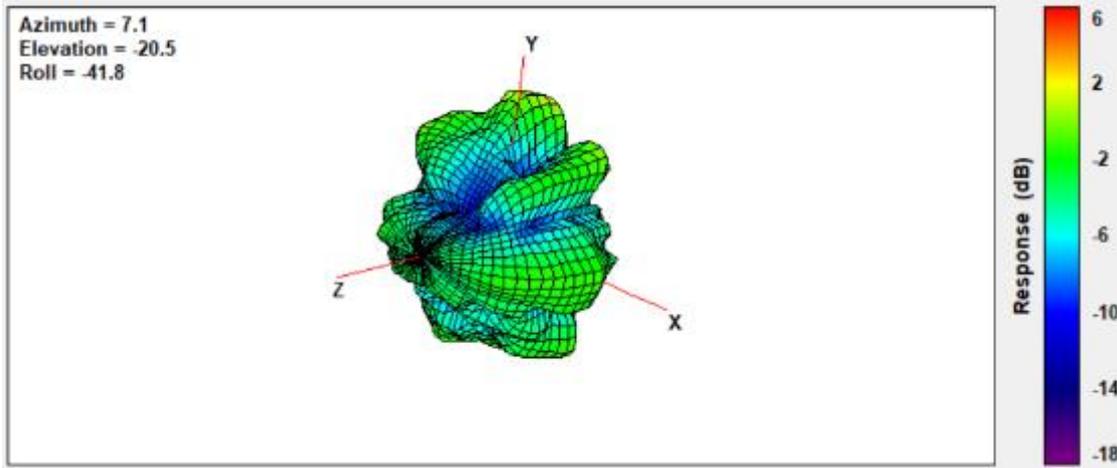
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
5925-6425	5.09	120	180



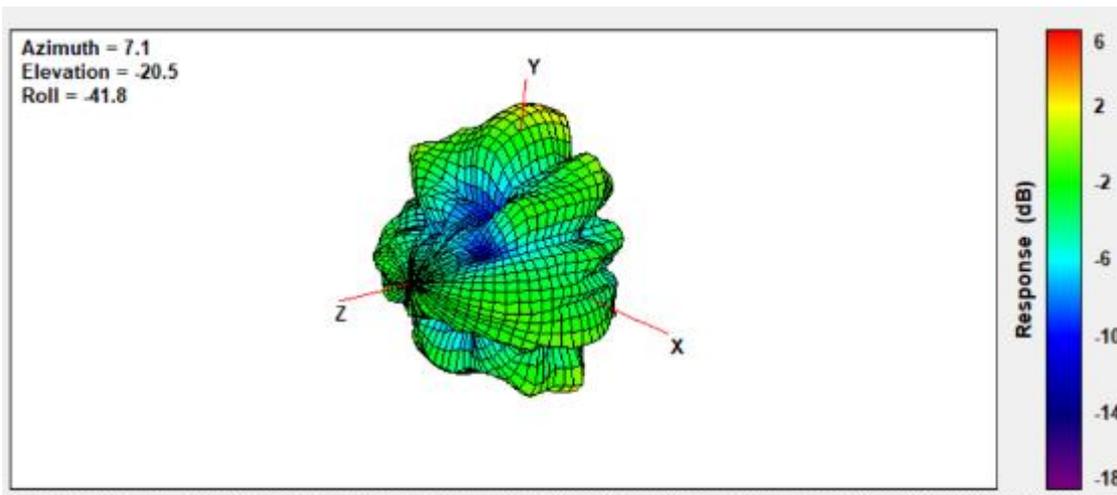
Max Antenna 3D Radiation Pattern 6425-6525MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
6425-6525	5.09	120	180



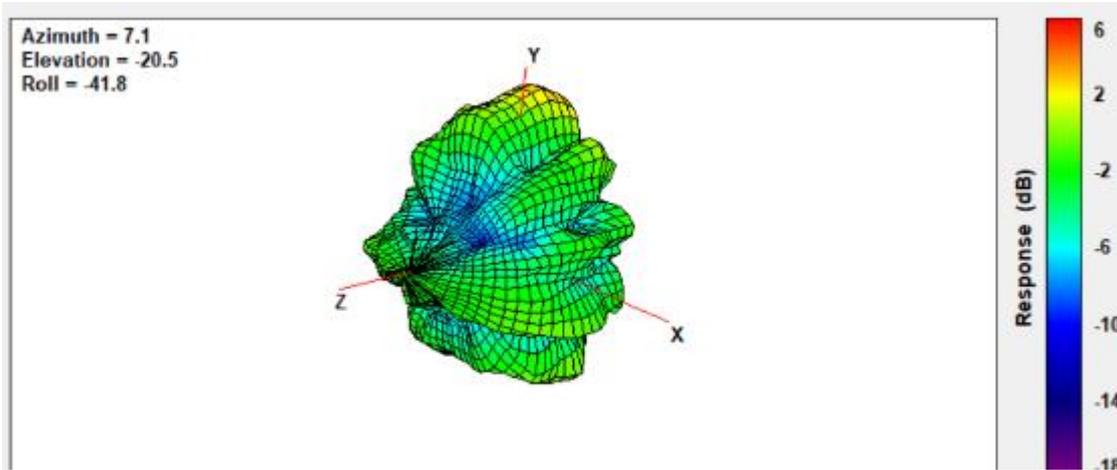
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
6525-6875	5.16	120	180



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)	Theta angle (°)	Phi angle (°)
6875-7125	5.12	120	180



4. Antenna information used for conformity with limits

This is a WIFI/BT typical antenna for modular manufacture regulatory testing purpose. The applicable limit is subjected to modular transmitter design/specification (i.e., SISO or MIMO etc.) and FCC Part 15 regulation. Detail of conformity limit to be described in module FCC test reports.