

Shenzhen Yolanda Technology Co., Ltd.

SPECIFICATIONS FOR APPROVAL

Customer Name: Shenzhen Kexin Wireless Technology Co., Ltd.

Product Name: Dipole Ant

Product Model: VEC03

Part Number: _____

Issued Date: 2020-9-15

Address: Building H, Shabeilie Hongyongli Industrial Zone
Longxin Community, Baolong Street, Longgang District
Shenzhen City, China

The basic parameters:

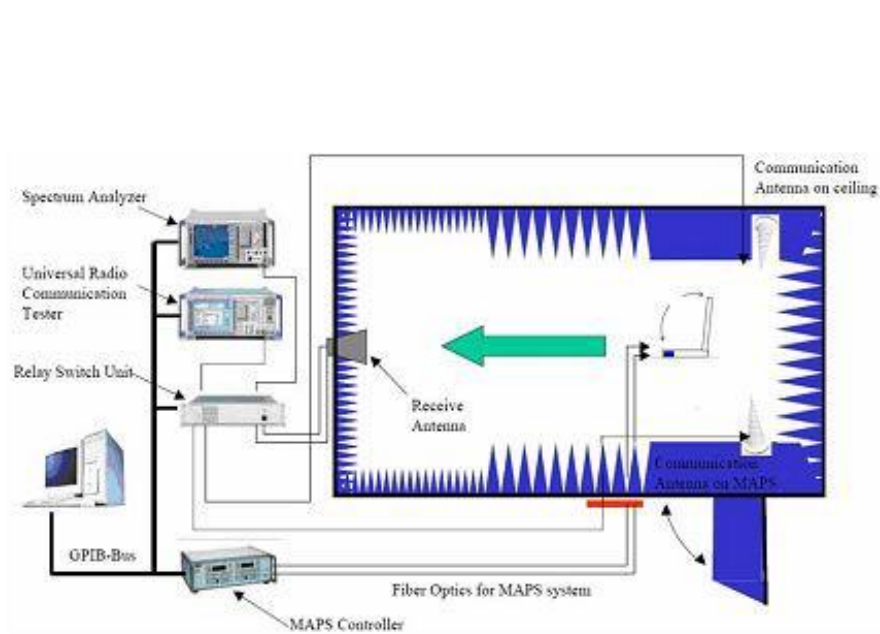
A. Electrical Characteristics	
Frequency	2400 MHz ~2500 MHz 5150 MHz ~ 5850 MHz
VSWR	< 2
Efficiency	>40%
Impedance	50 Ohm
Polarization	Linear
Gain	2.0dbi(Max)
B. Material & Mechanical Characteristics	
Material of Radiator	
C. Environmental	
Operation Temperature	-10 °C ~ + 50 °C
Storage Temperature	- 30 °C ~ + 85 °C

Test Equipment & Conditions

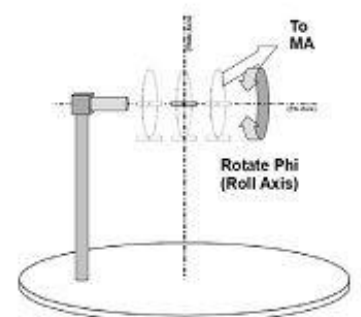
1. Network Analyzers :

Agilent 8753D 5071B

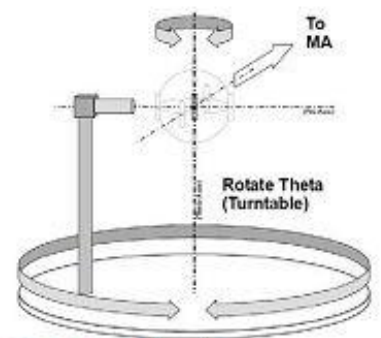
2. 3D Chamber Test System



(Testing by 3D anechoic chamber)

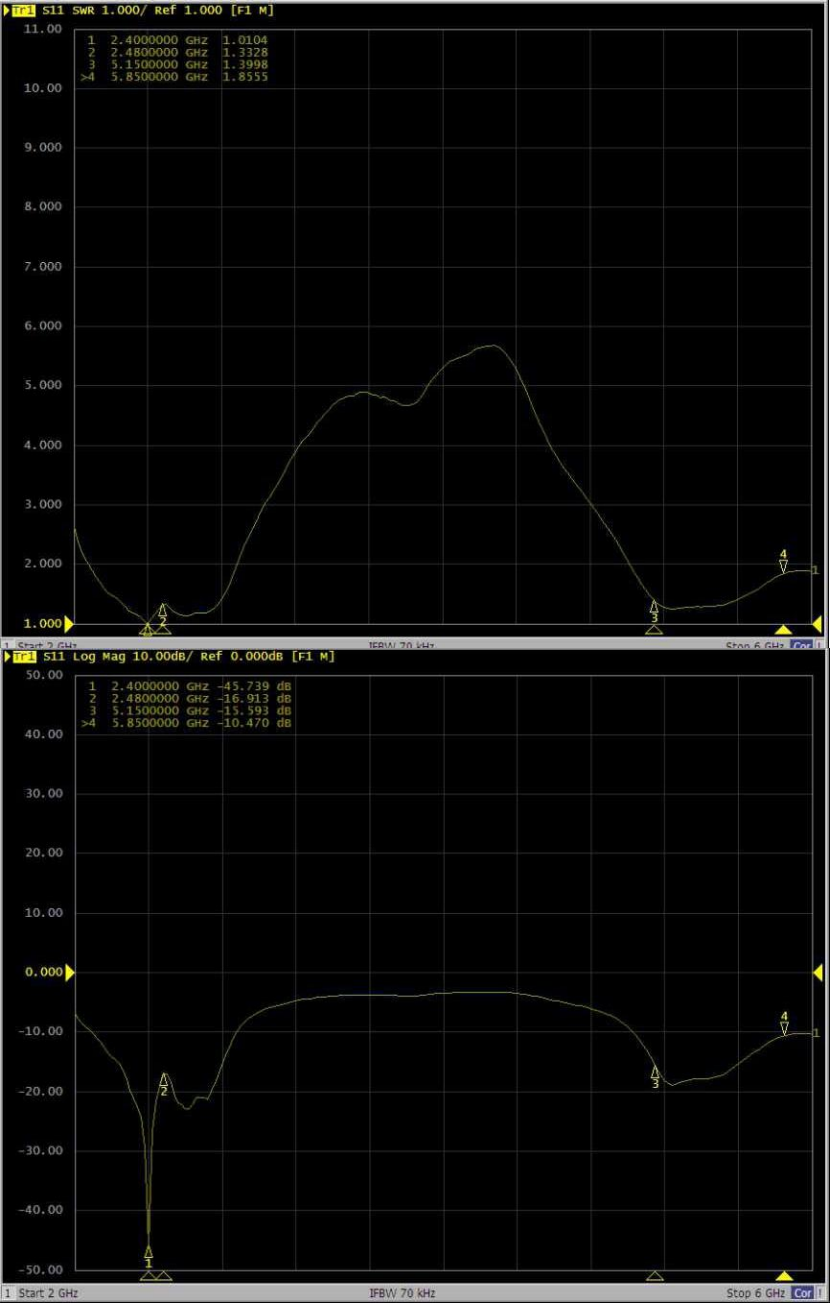


Phi axis test



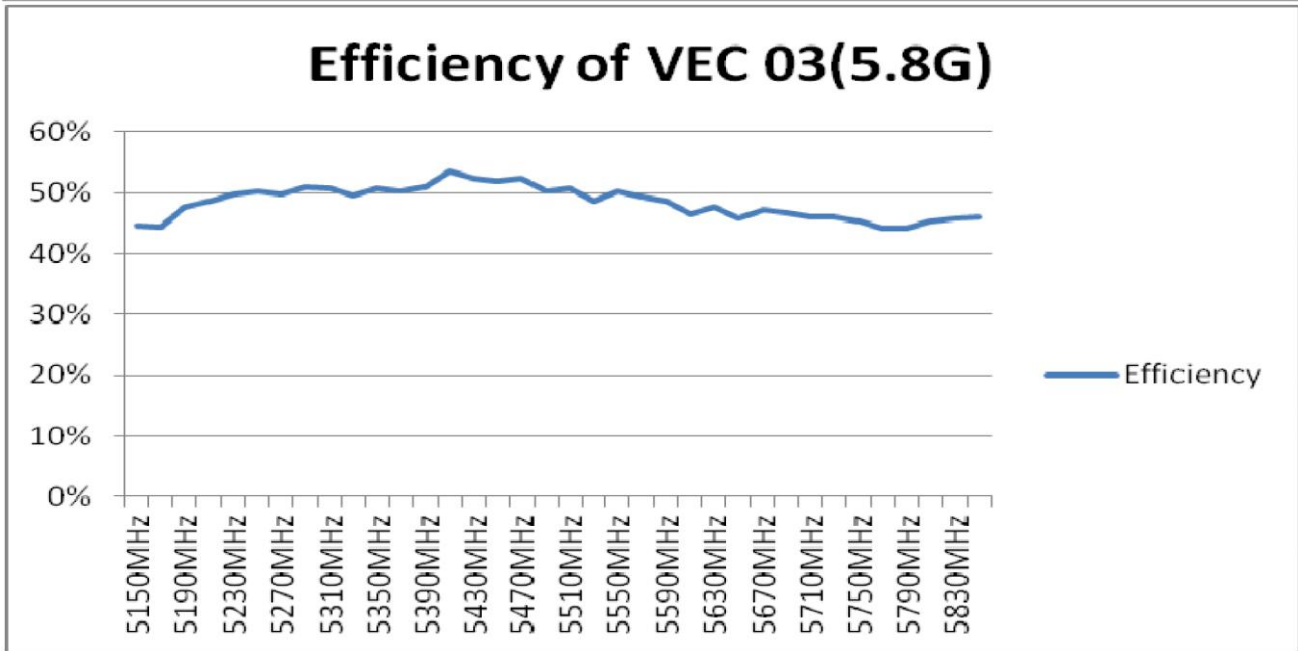
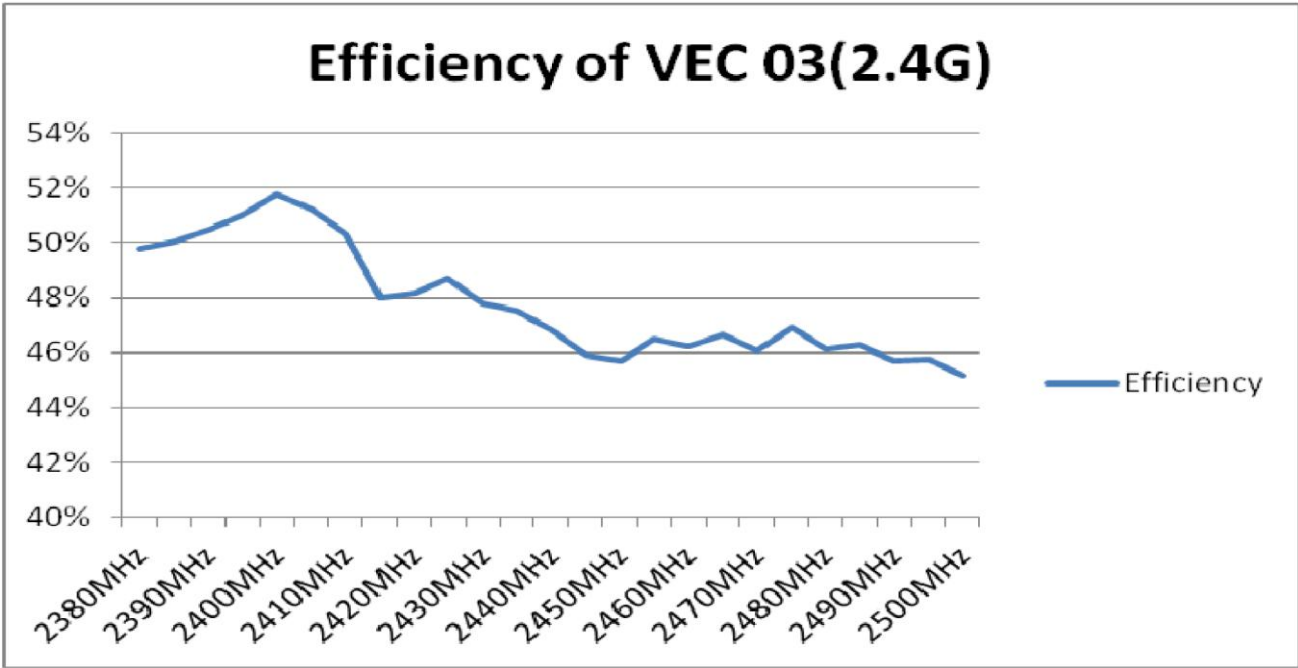
Theta axis test

3.Antenna Impedance: S11 (parameter)



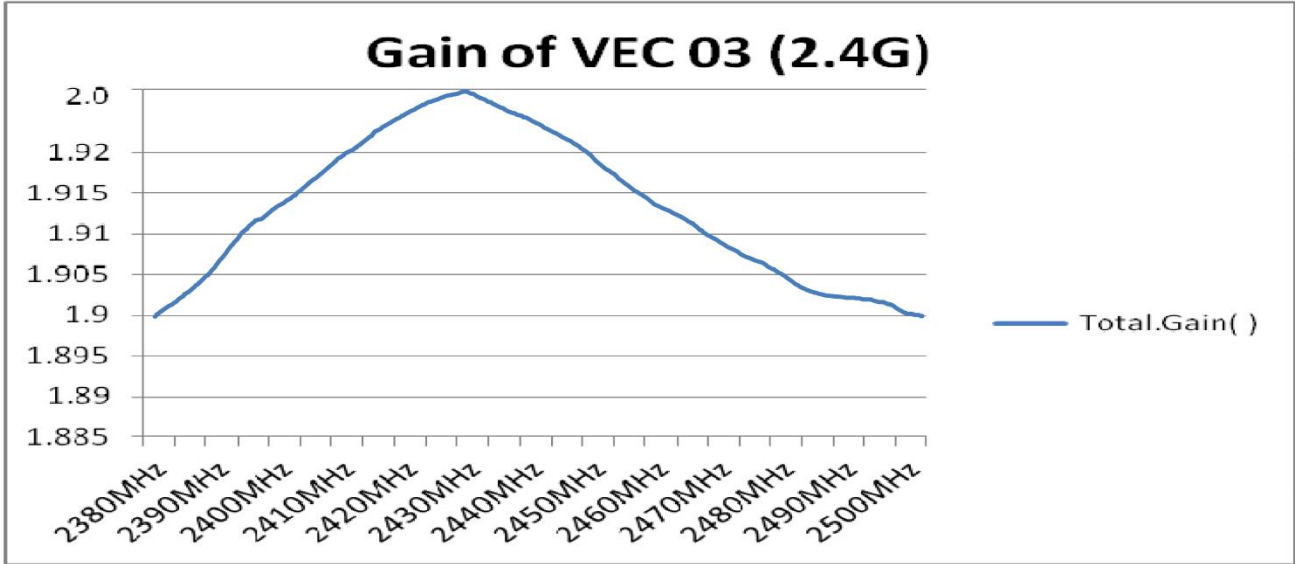
Antenna type	WIFI (2.4G&5.8G)				
Frequency(MHz)	2400	2480	5150	5550	5850
VSWR	1.01	1.33	1.39	1.53	1.85

4. Total Efficiency-2.4G:



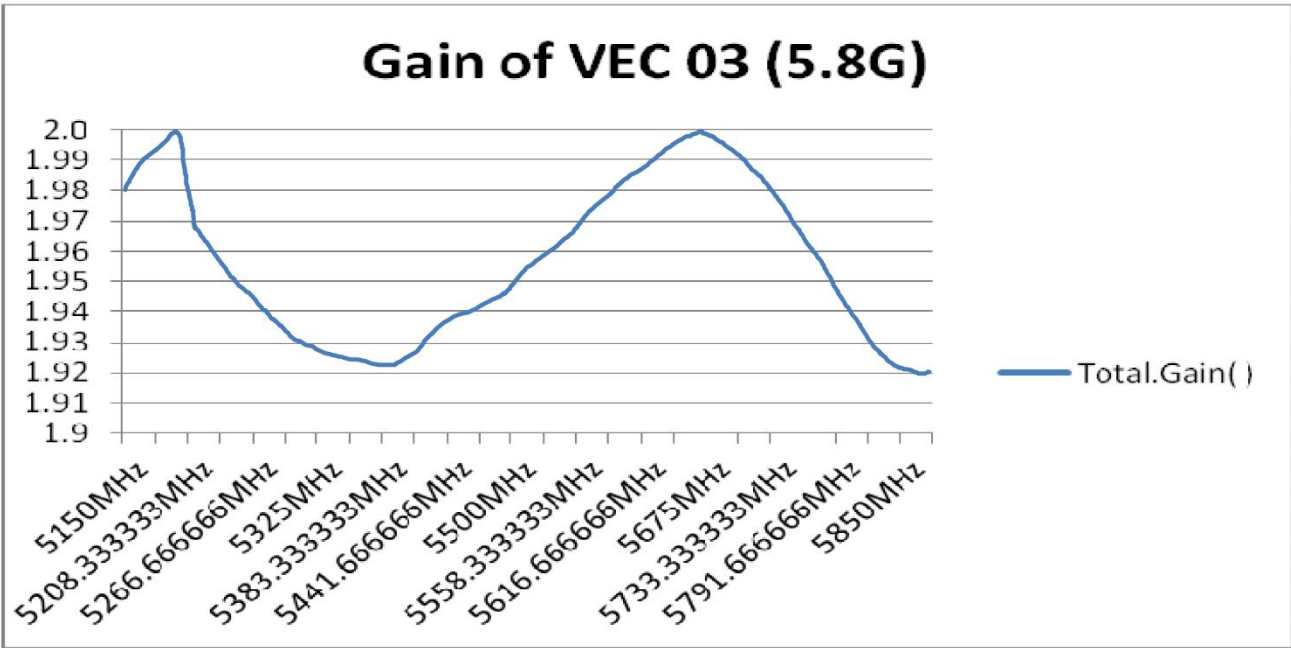
5. GAIN-2.4G:

Frequency (MHz)	2380	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.90	1.91	1.91	1.92	1.94	2.00	1.95	1.92	1.91	1.91	1.91	1.90	1.90



GAIN-5.8G:

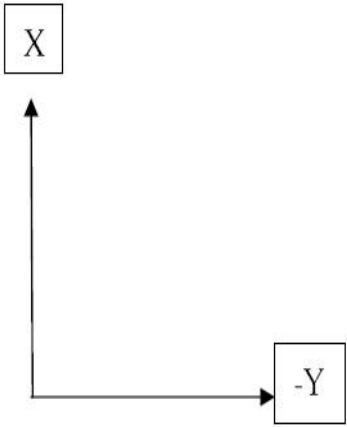
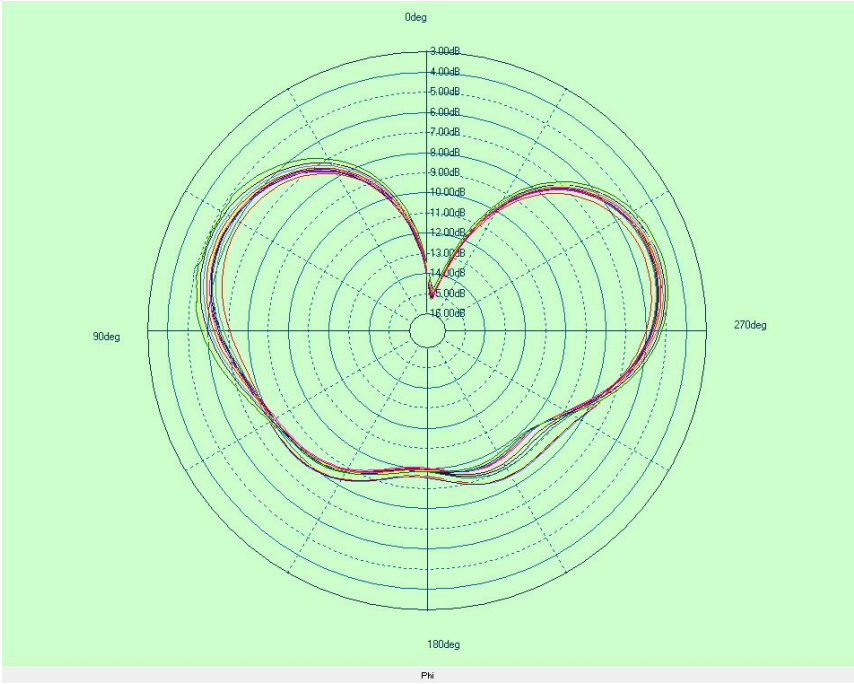
Frequency (MHz)	5150	5208	5266	5325	5383	5441	5500	5558	5616	5675	5733	5791	5850
Gain(dBi)	.00	.33	.67	.00	.33	.67	.00	.33	.67	.00	.33	.67	.00
Gain(dBi)	2.00	1.95	1.93	1.93	1.93	1.94	1.96	1.99	2.00	1.99	1.96	1.92	1.92



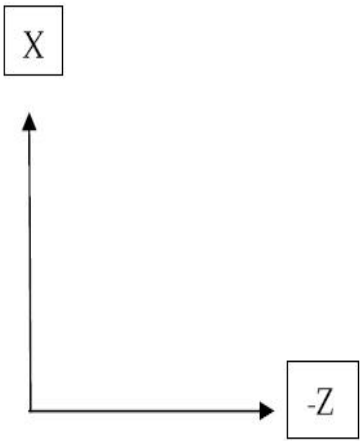
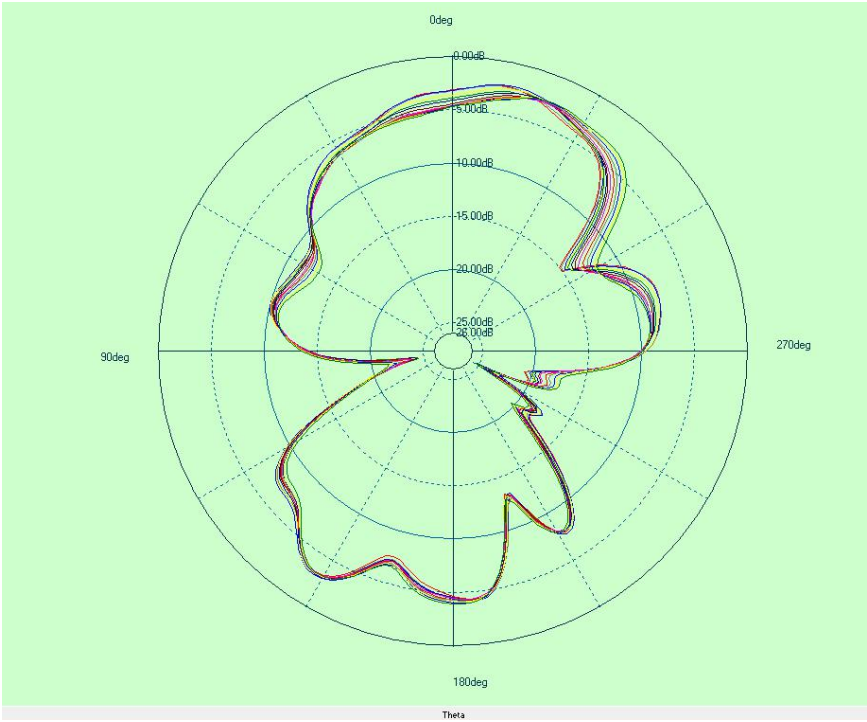
6. 2D Radiation characteristics of antenna

Frequency (MHz)	2380	2400	2420	2430	2450	2470	2490	2500
Color								

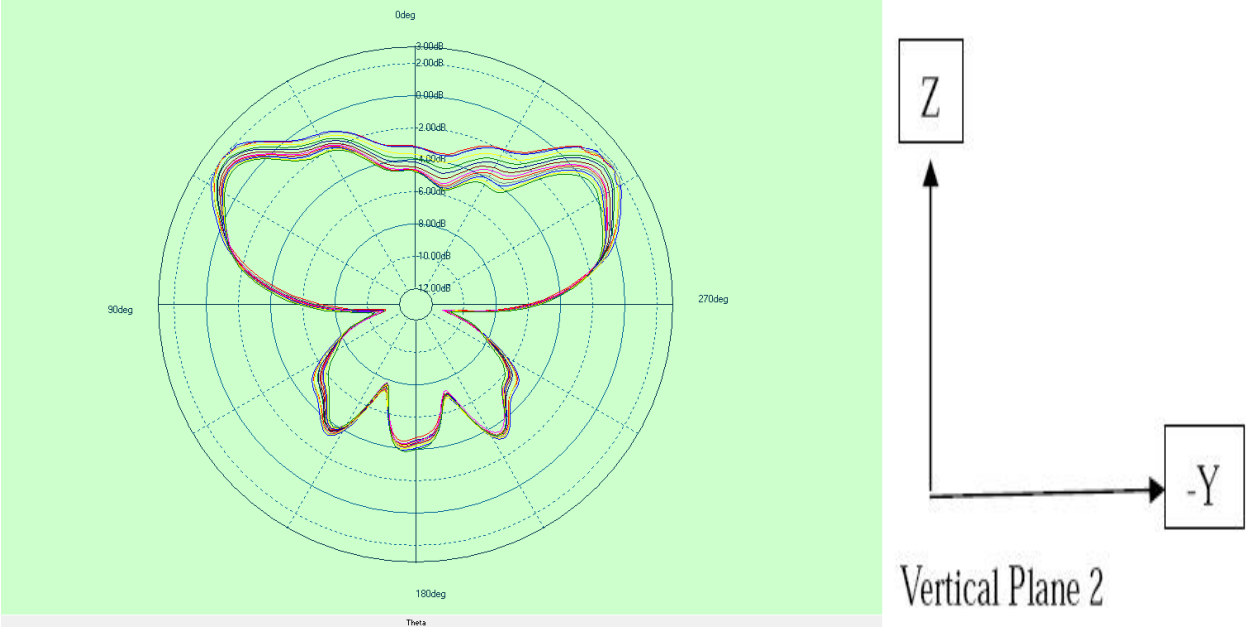
WIFI/2.4G



Horizontal Plane

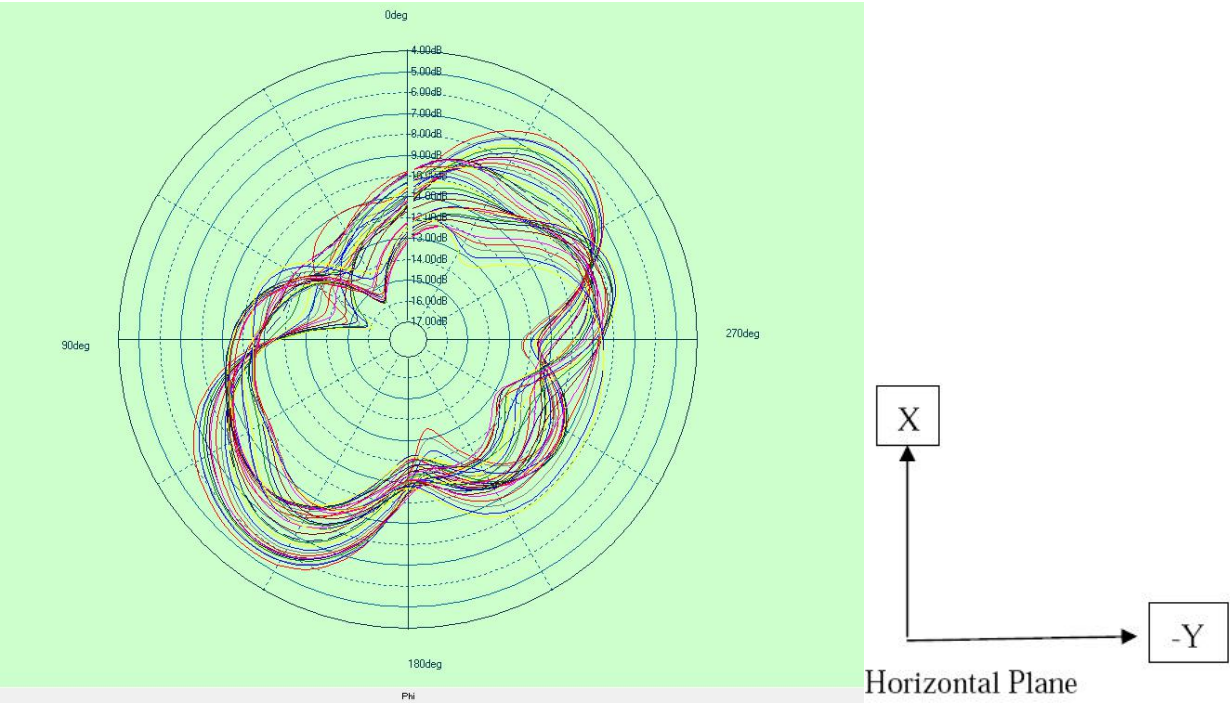


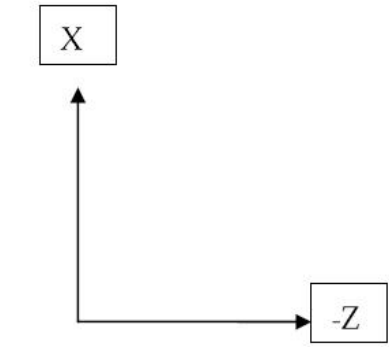
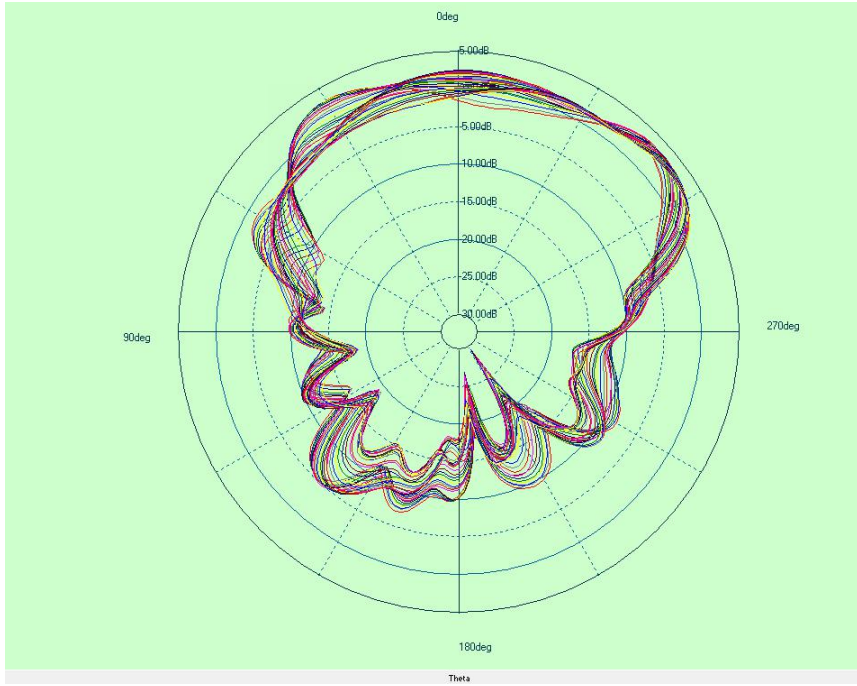
Vertical Plane 1



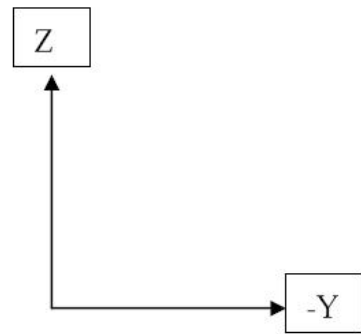
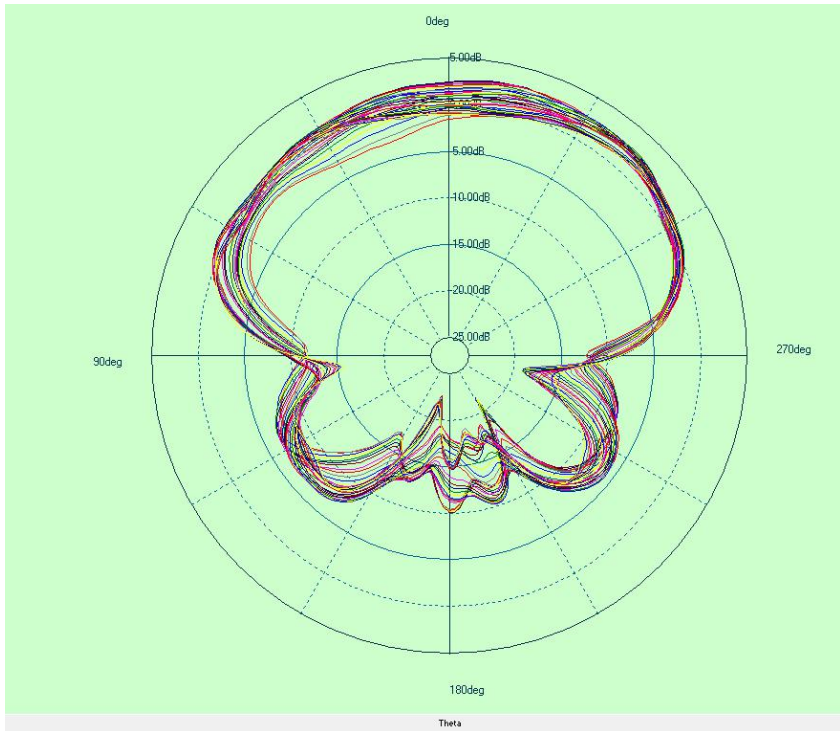
WIFI/5.8G

Frequency (MHz)	5150.00	5208.33	5383.33	5441.67	5500.00	5616.67	5791.67	5850.00
Color								





Vertical Plane 1



Vertical Plane 2