

AE-WSW108S001

2.4GHz Dipole Antenna

1. Feature

- * External type dipole antenna
- * 2.4~2.5GHz of frequency
- * Plastic rod of Black
- * RoHS compliance



2. Application

- * 2.4GHz Wireless Communication
- * WLAN device, WLAN Router, e.g., AP, PIC Wireless Card

3. Description

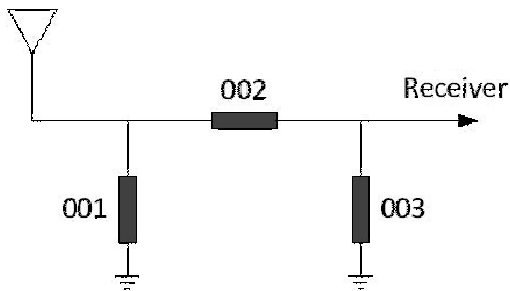
Using Suzhou Soant communication Equipent Co.,Ltd, this miniature antenna is designed for 2.4GHz applications and can be easily built-in portable devices for SMA Plug. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. General Data

Product Name	2.4GHz 2dBi Dipole Antenna
Part No.	AE-WSW108S001
Frequency	2.4~2.5GHz
V.S.W.R	≤2.0
Gain (dBi)	2.4GHz@2.32dBi
Polarization	Linear,Vertical
Storage Temp	-10℃~+70℃
Operating Temperature	-10℃~+60℃
Impedance with Matching	50 Ω
Weight	11.5 g
Antenna Type	SMA Male Reverse
Dimension	L108 X Φ 10 (mm)

5. Typical Electrical Characteristics

- Recommend Matching Circuit



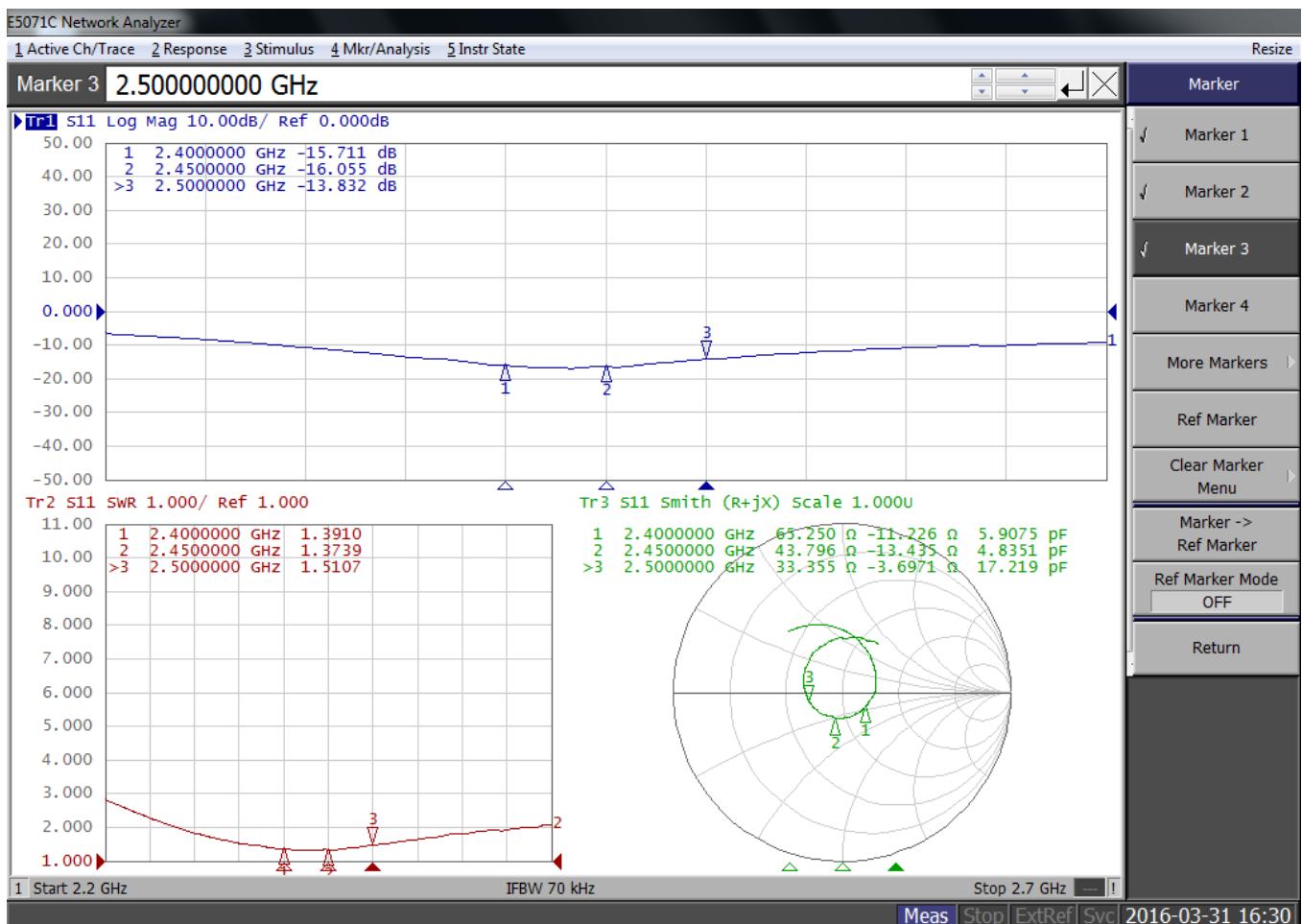
Reference:

001=(N/A)

002=0 Ω

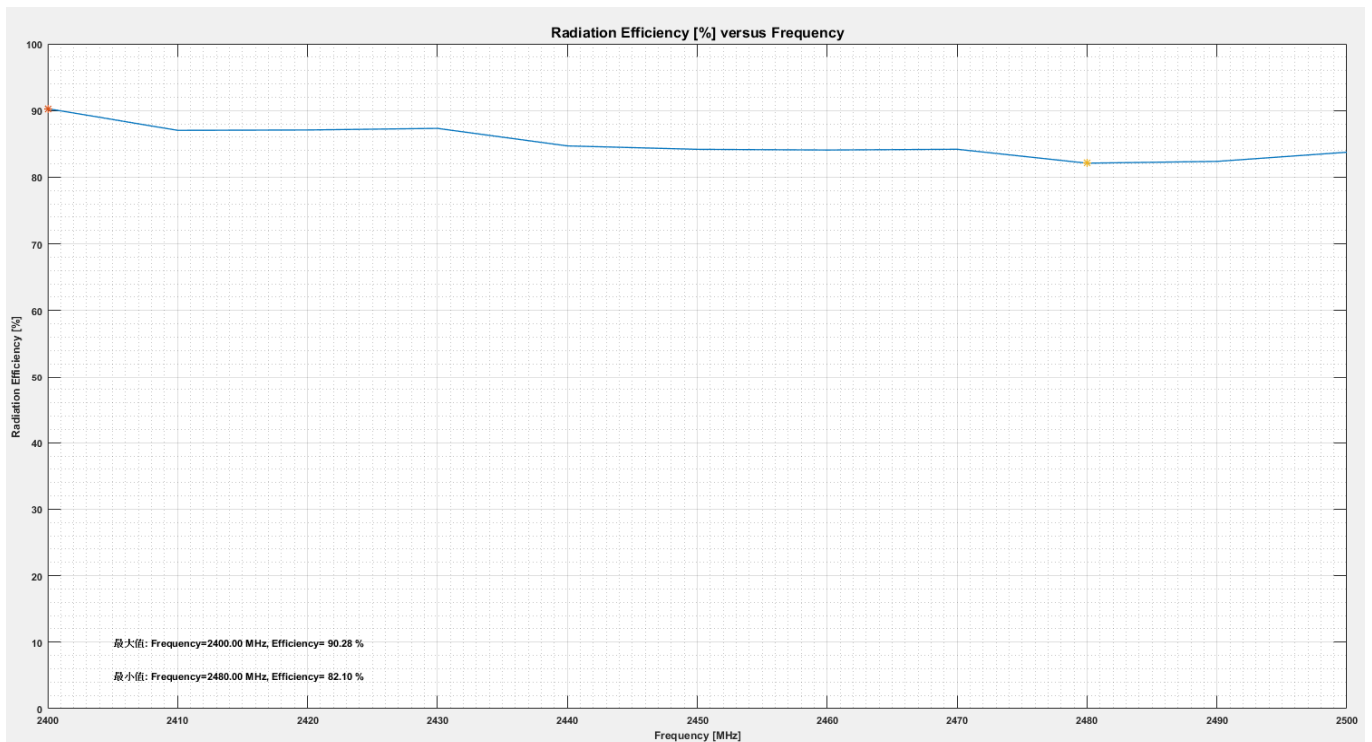
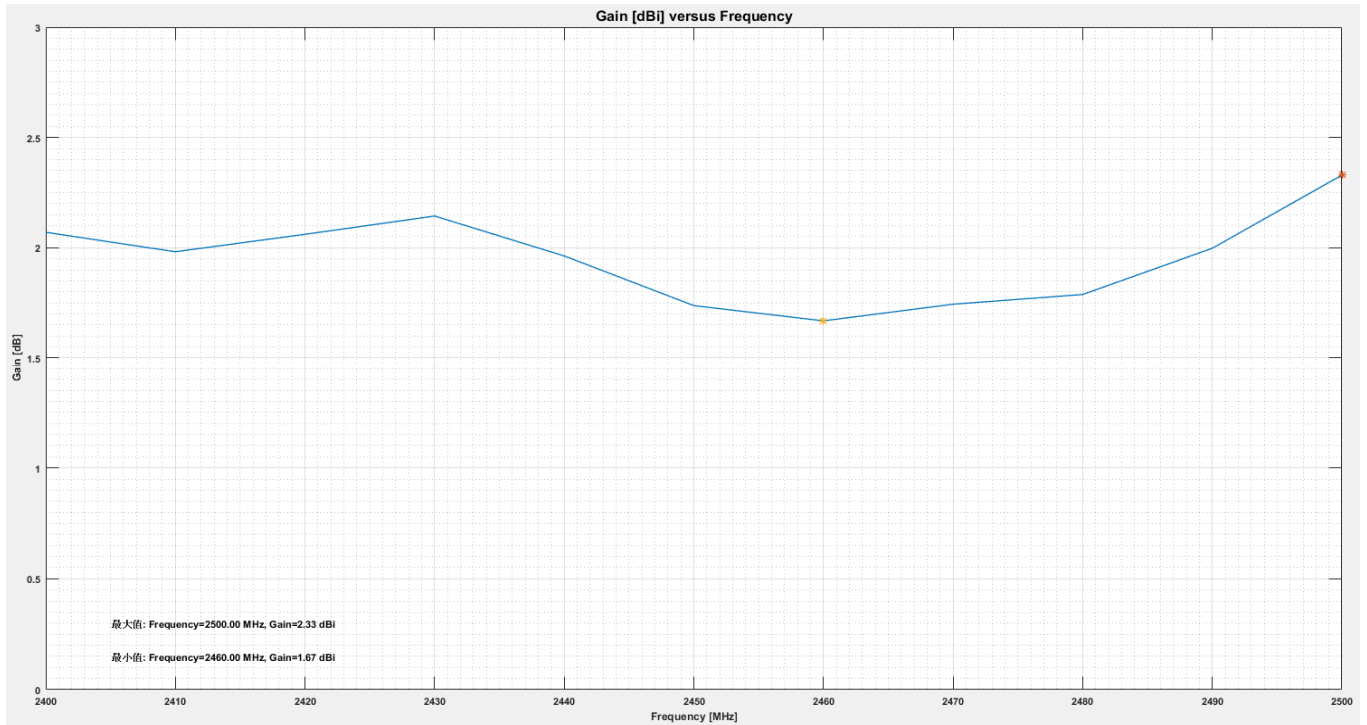
003=(N/A)

- Return loss、VSWR& Smith chart

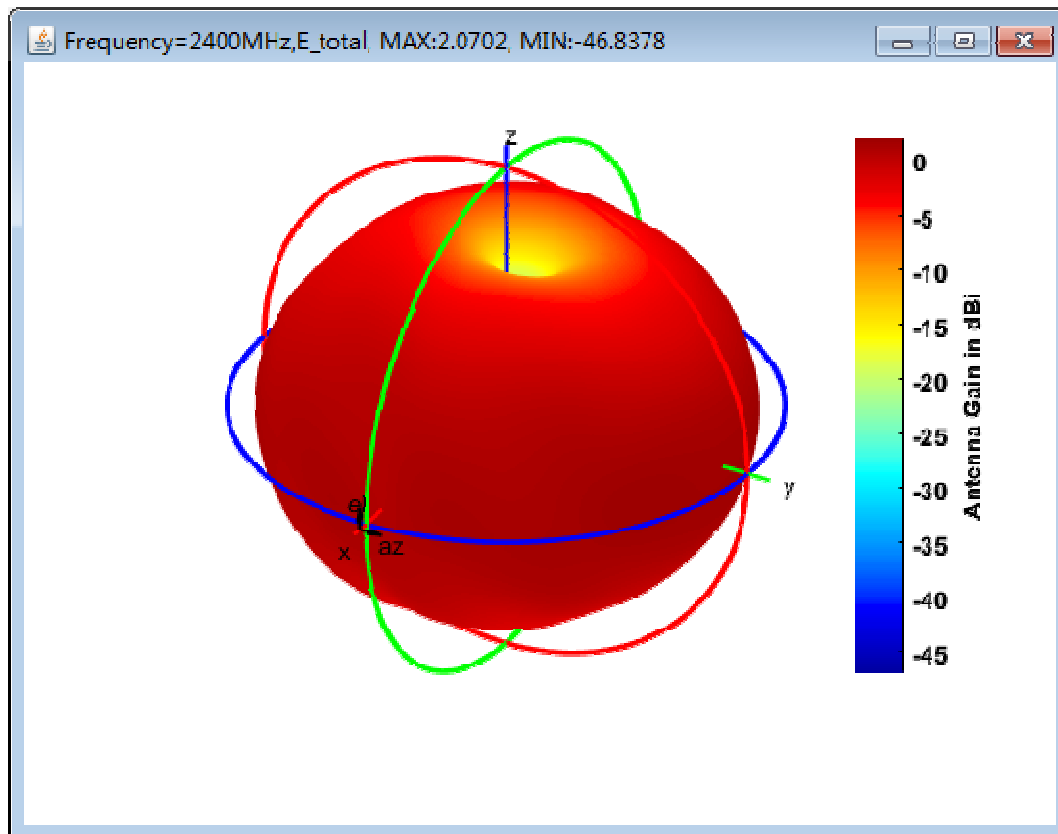


3D Total Date

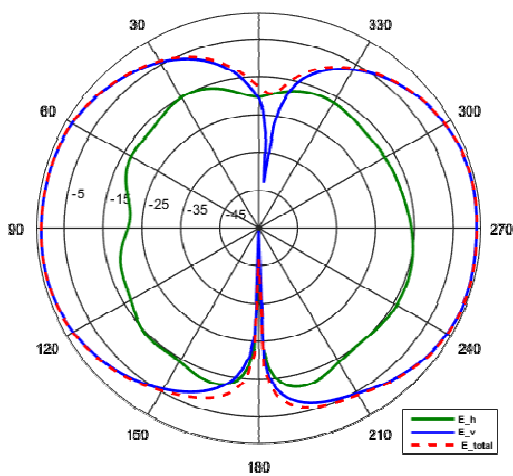
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Directivity(dB)	2.5143	2.5855	2.6618	2.7328	2.6845	2.4857	2.4221	2.4915	2.6448	2.8402	3.0998
Gain(dB)	2.0702	1.9821	2.0611	2.1439	1.963	1.7378	1.6687	1.7442	1.7882	1.9978	2.3292
Efficiency (dB)	-0.4441	-0.6035	-0.6008	-0.5888	-0.7215	-0.7478	-0.7533	-0.7474	-0.8565	-0.8424	-0.7705
Efficiency (%)	90.2806	87.0268	87.0813	87.3203	84.6926	84.1816	84.0748	84.1905	82.1005	82.3687	83.7428



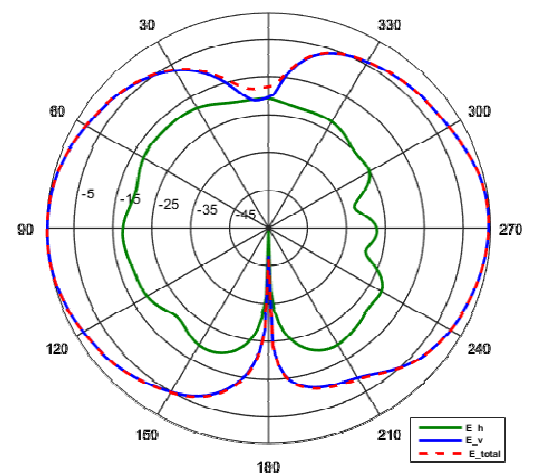
2400MHz 3D&2D Cut



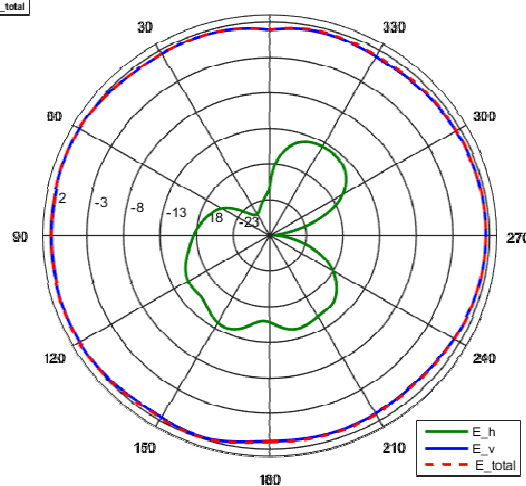
E_h, E_v, and E_{total}: Theta Cut @ Phi=0 Degree
(frequency=2400MHz)



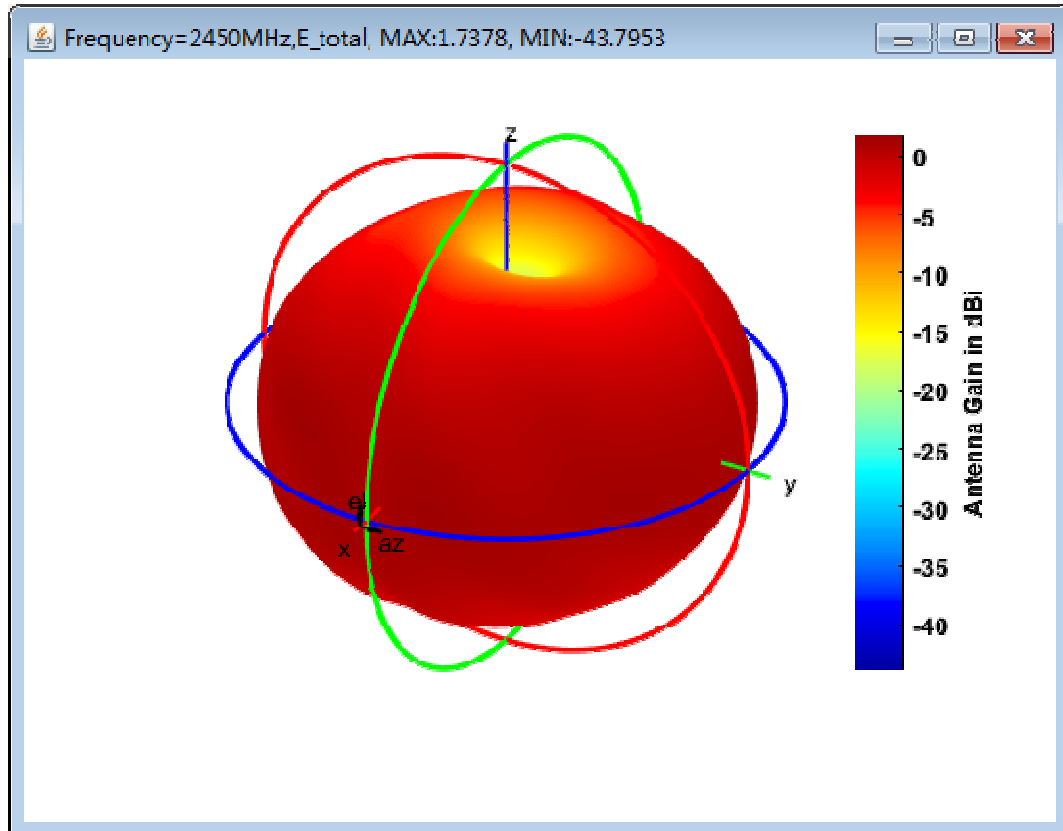
E_h, E_v, and E_{total}: Theta Cut @ Phi=90 Degree
(frequency=2400MHz)



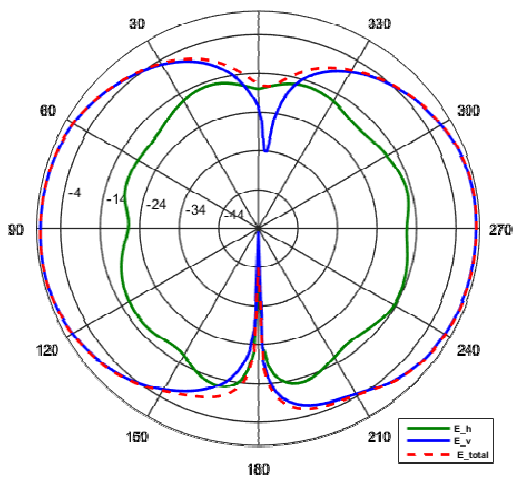
E_h, E_v, and E_{total}: Phi Cut @ Theta=90 Degree
(frequency=2400MHz)



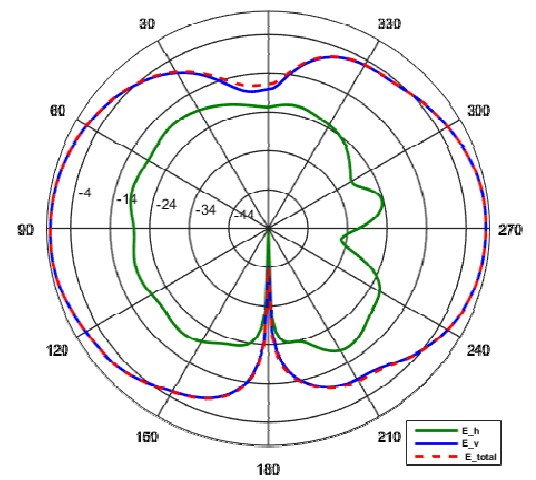
2450MHz 3D&2D Cut



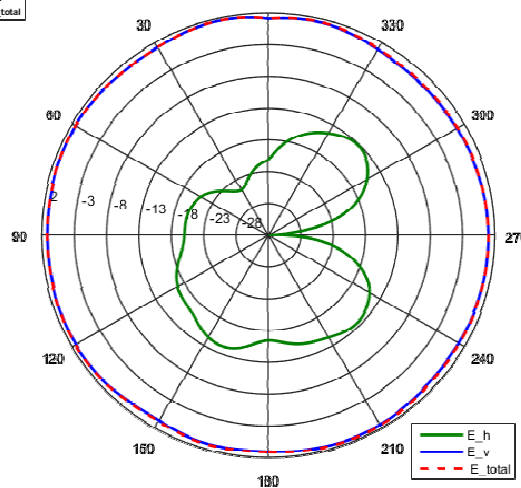
E_h, E_v, and E_{total}: Theta Cut @ Phi=0 Degree
(frequency=2450MHz)



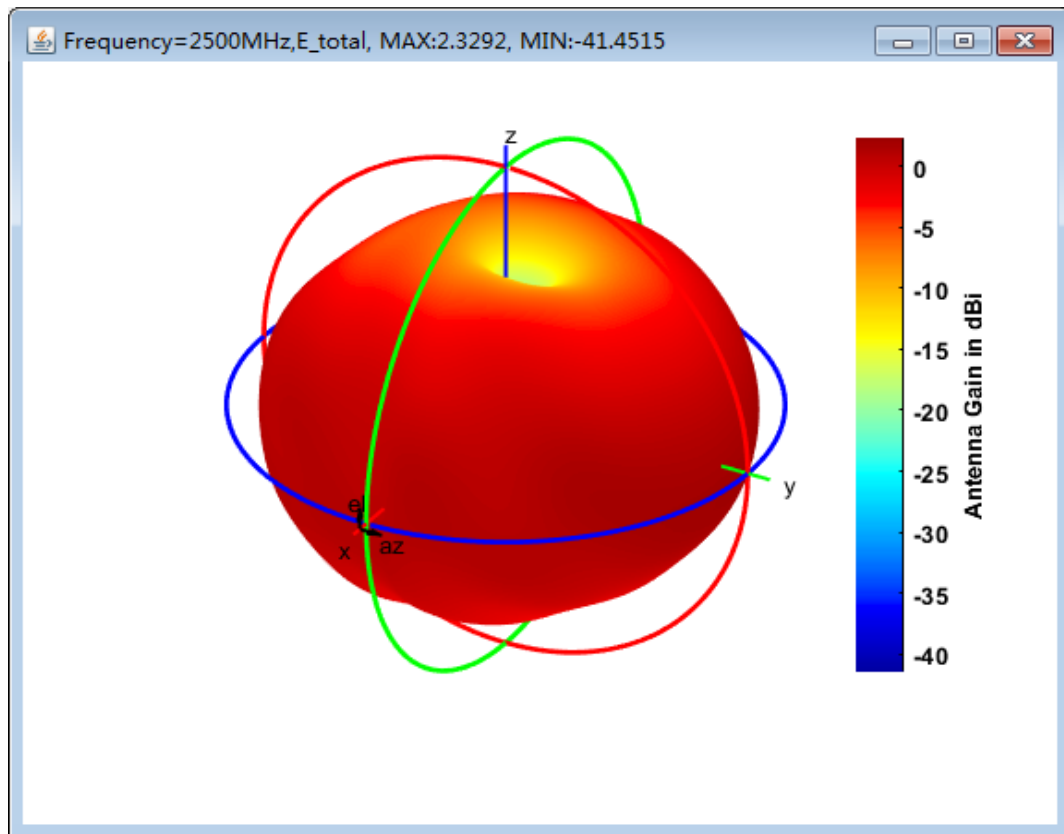
E_h, E_v, and E_{total}: Theta Cut @ Phi=90 Degree
(frequency=2450MHz)



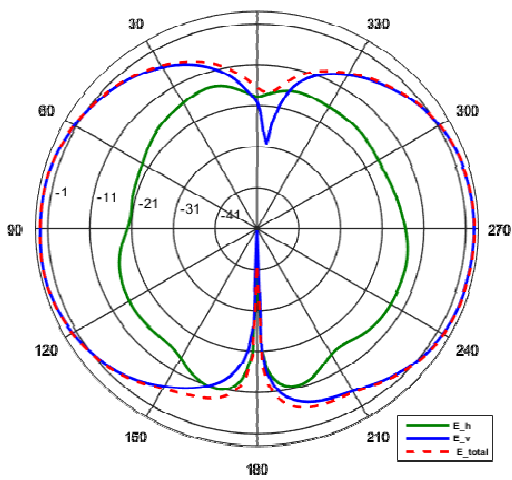
E_h, E_v, and E_{total}: Phi Cut @ Theta=90 Degree
(frequency=2450MHz)



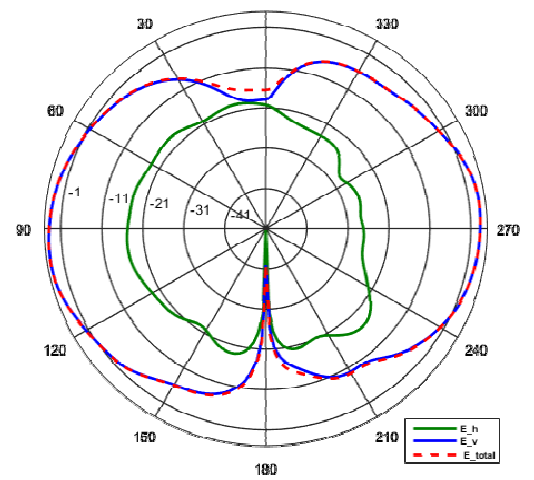
2500MHz 3D&2D Cut



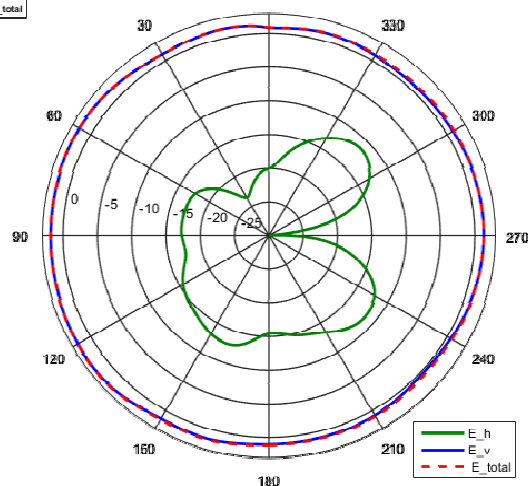
E_h, E_v, and E_{total}: Theta Cut @ Phi=0 Degree
(frequency=2500MHz)



E_h, E_v, and E_{total}: Theta Cut @ Phi=90 Degree
(frequency=2500MHz)



E_h, E_v, and E_{total}: Phi Cut @ Theta=90 Degree
(frequency=2500MHz)



6. Dimension

