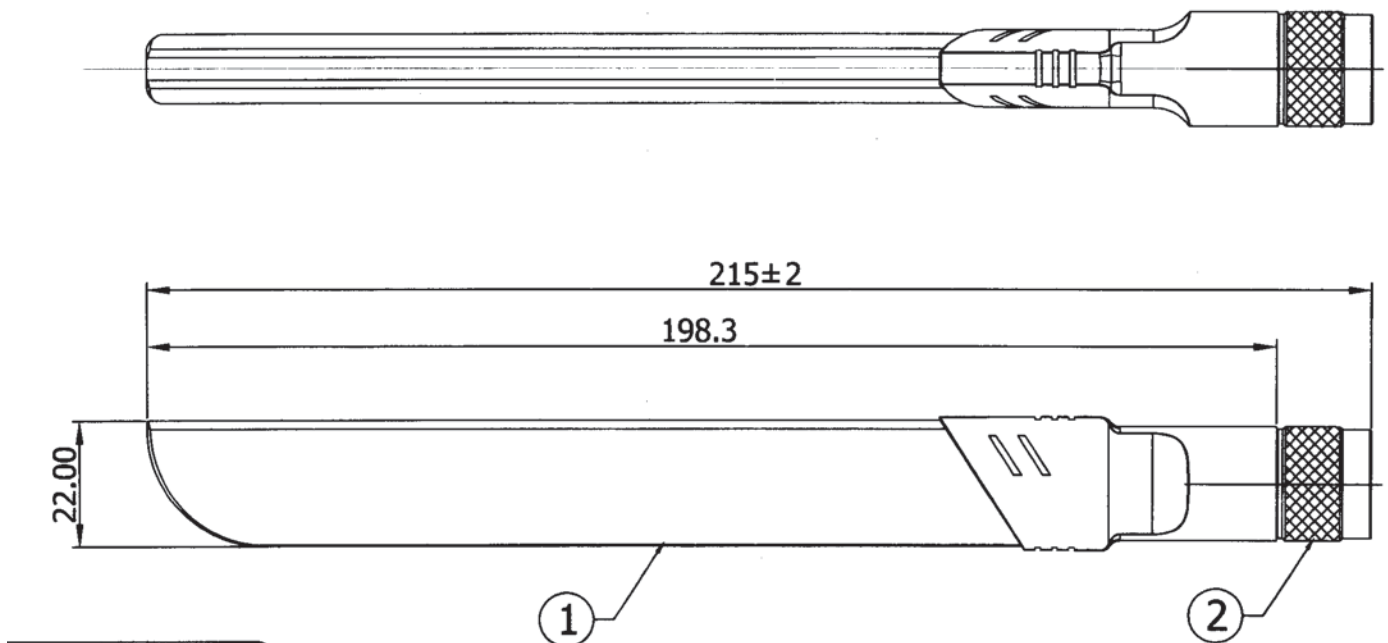


RF Antenna Assembly

Specification

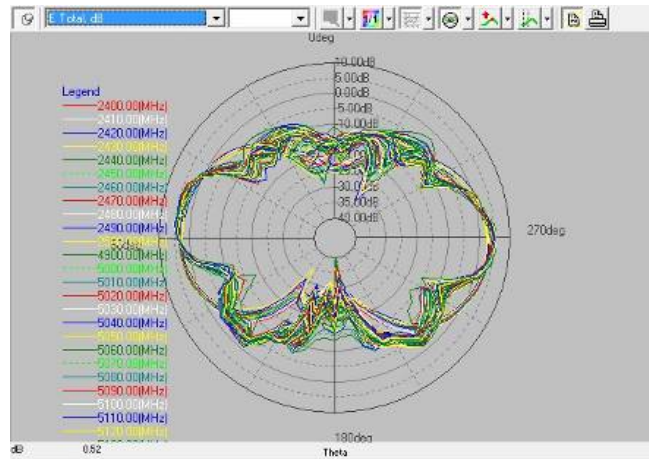
1. Electrical Properties :

- 1.1 Frequency Range.....2.4GHz ~ 2.5GHz ;4.9GHz~5.825GHz
- 1.2 Impedance 50 Ω Nominal
- 1.3 VSWR 2.1 :1Max.
- 1.4 Return Loss.....-9 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak).....3.5 $\pm$ 0.5dBi @ 2.4GHz ~ 2.5GHz
6.0 $\pm$ 1.0dBi@ 4.9GHz ~ 5.825GHz
- 1.7 Polarization.....Linear; Vertical
- 1.8 Admitted Power.....1W
- 1.9 Cable..... RG-178 Coaxial Cable
- 1.10 Connector..... N-type Plug Standard

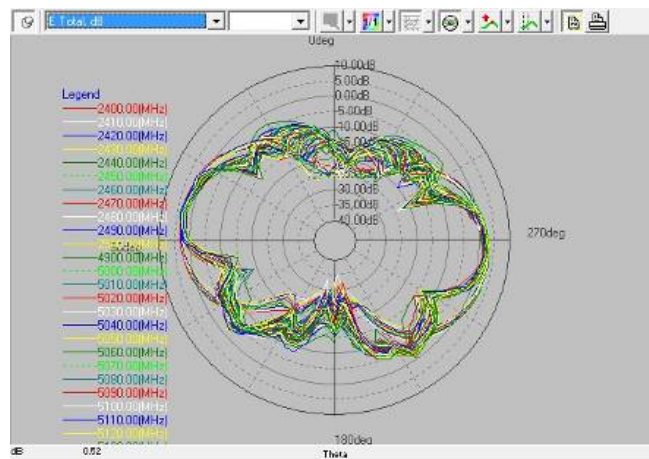
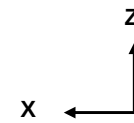


4.2 2D patterns

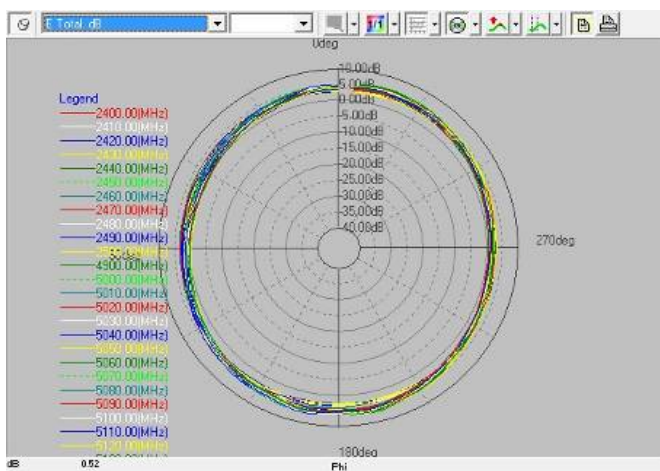
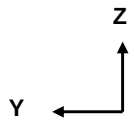
4.2.1 Ant 1



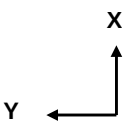
X-Z Plane



Y-Z Plane

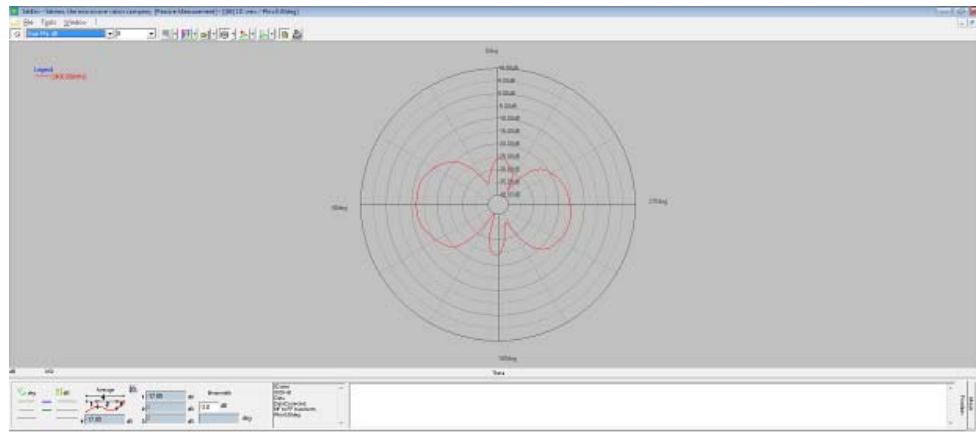


X-Y Plane

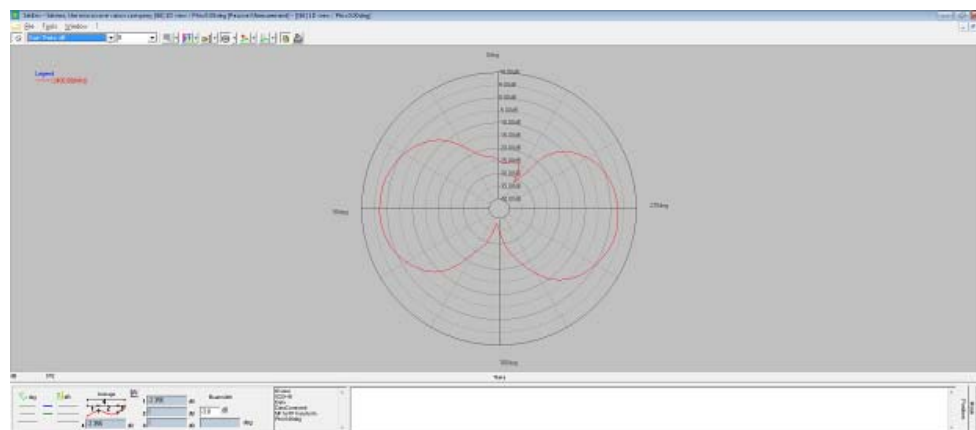


4.3 co port & cross port

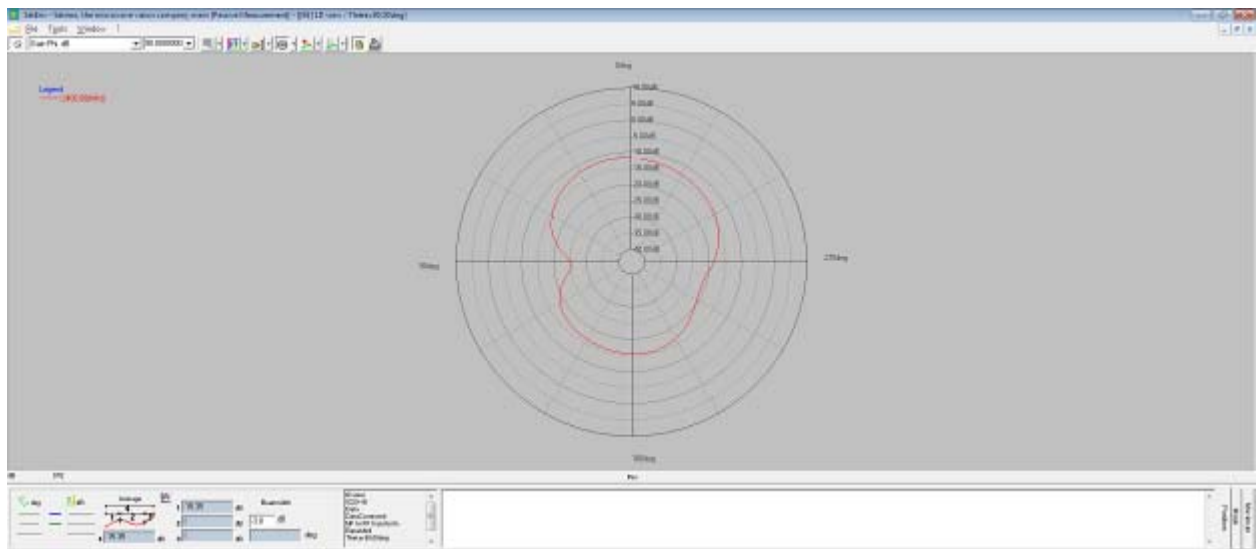
4.3.1 2400MHz



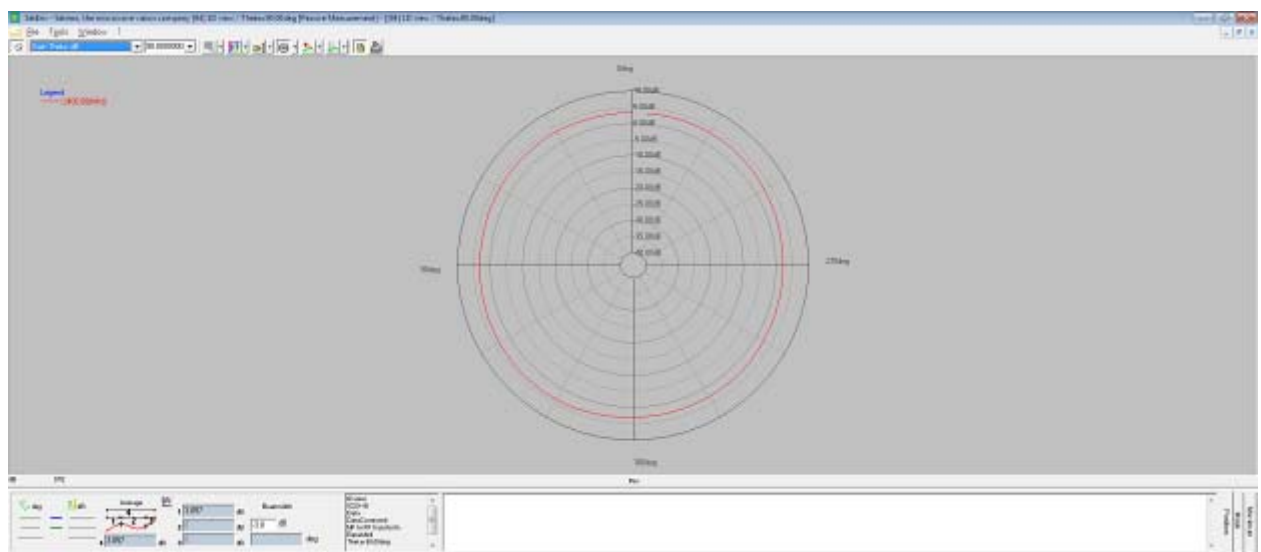
XZ-Phi



XZ-Theta

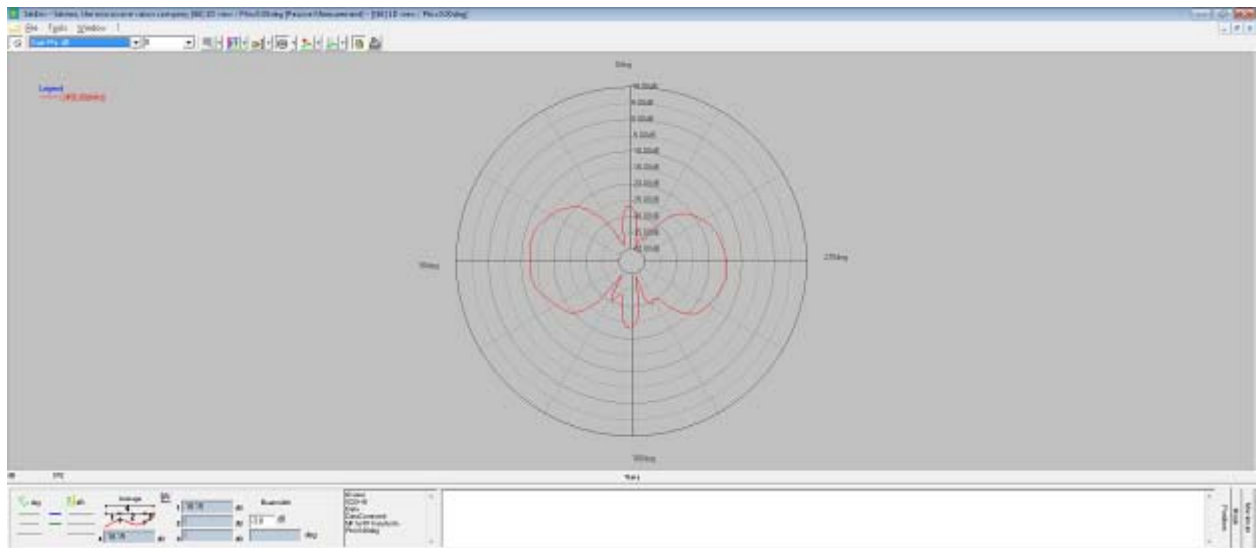


XY-Phi

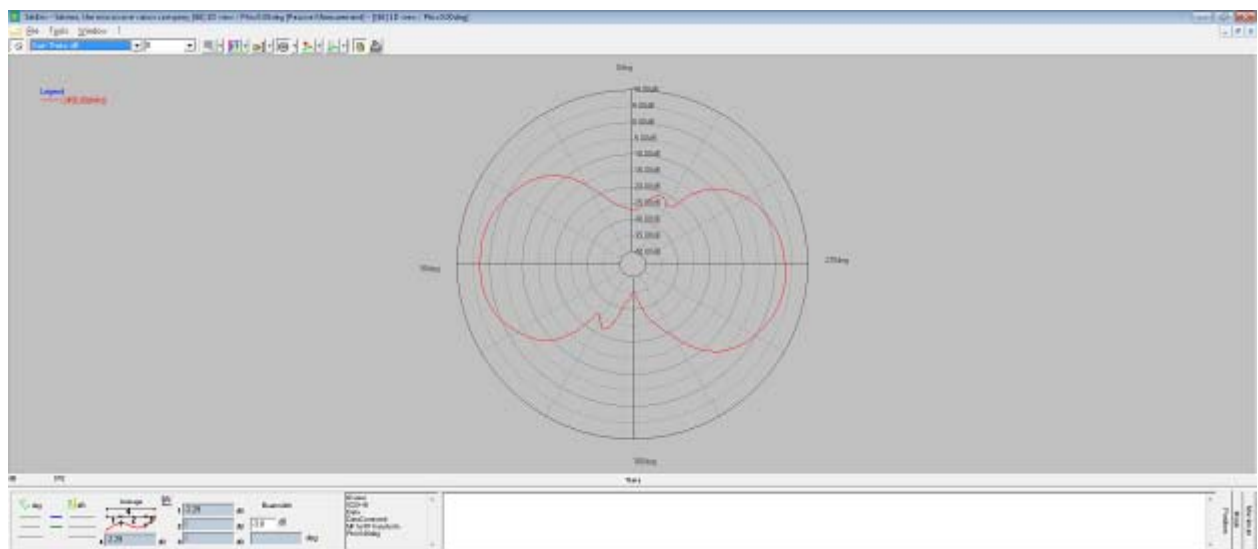


XY-Theta

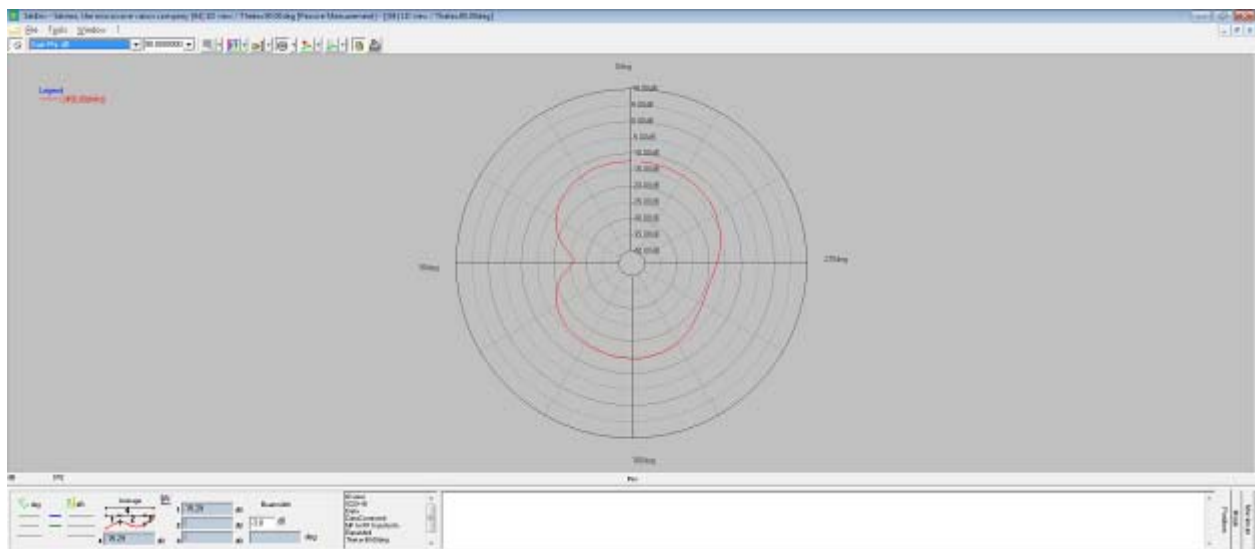
4.3.2 2450MHz



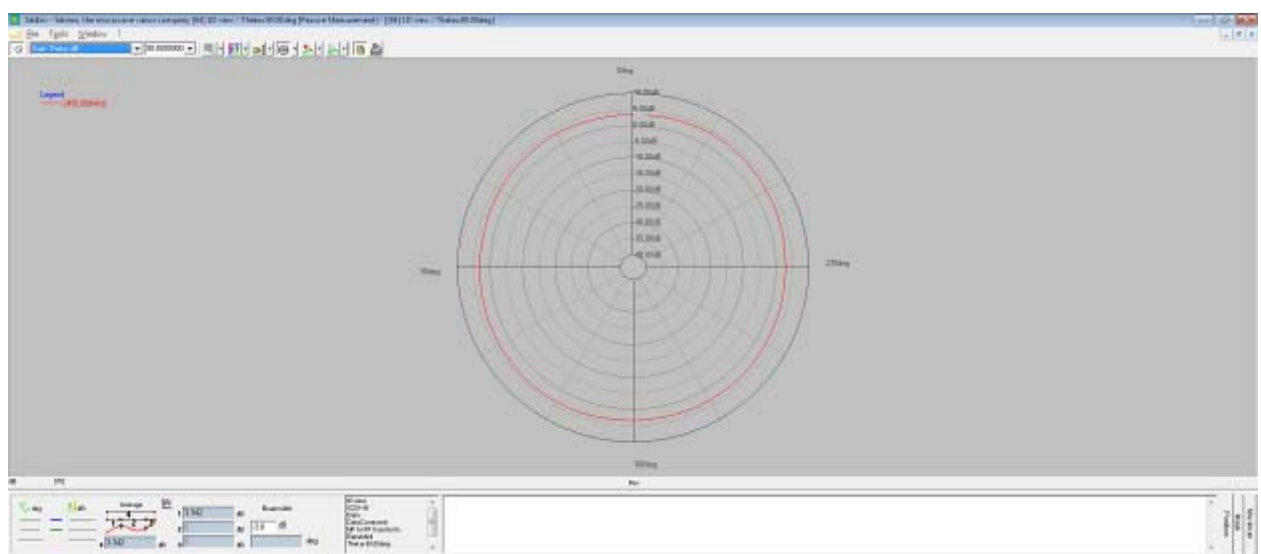
XZ-Phi



XZ-Theta

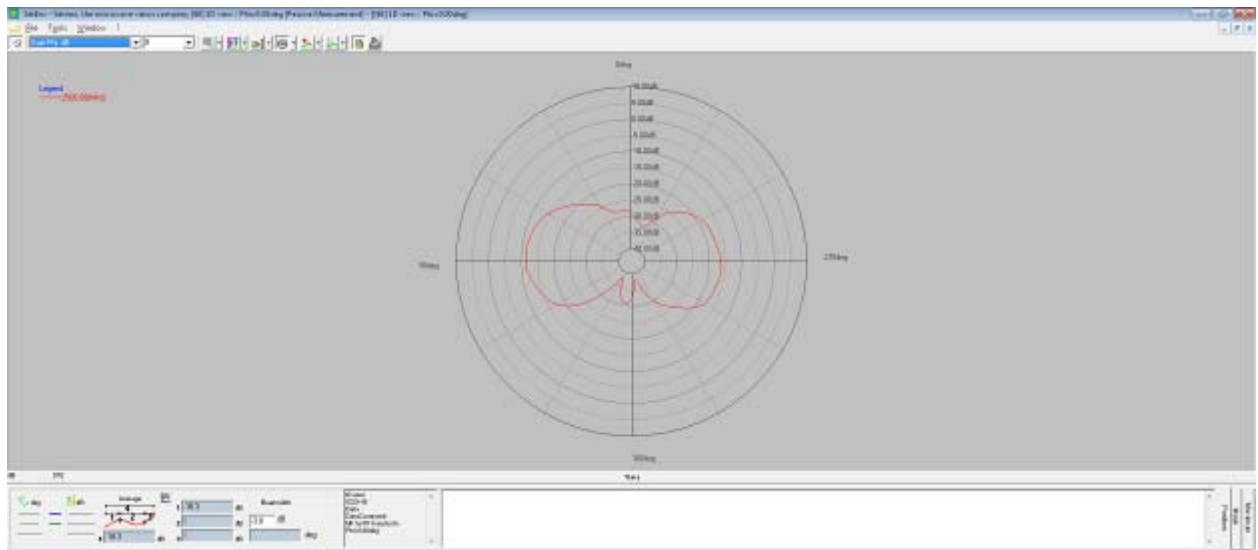


XY-Phi

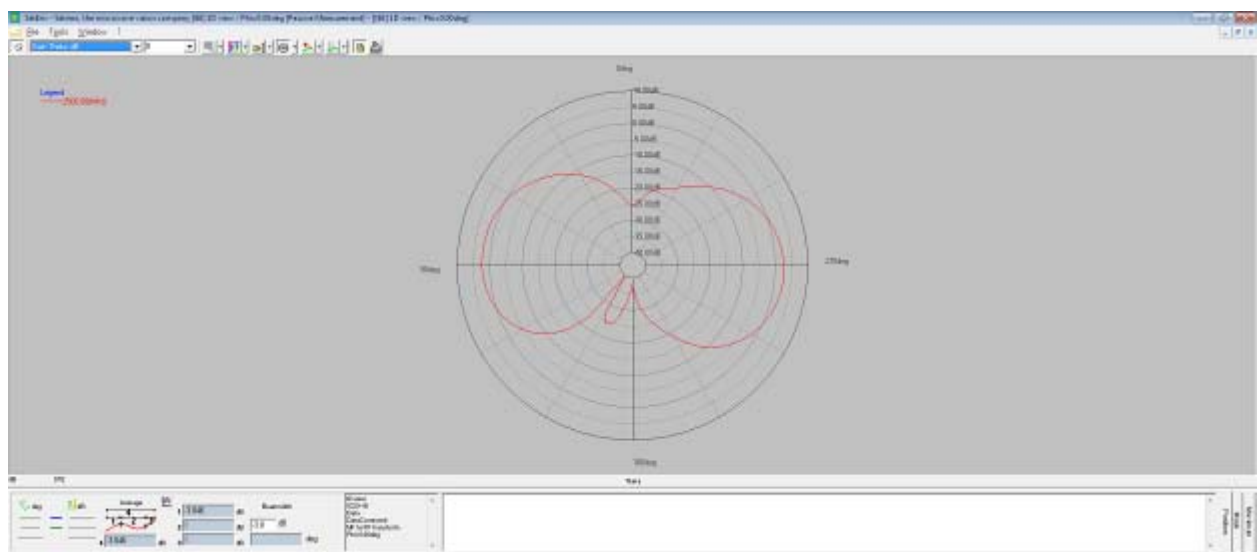


XY-Theta

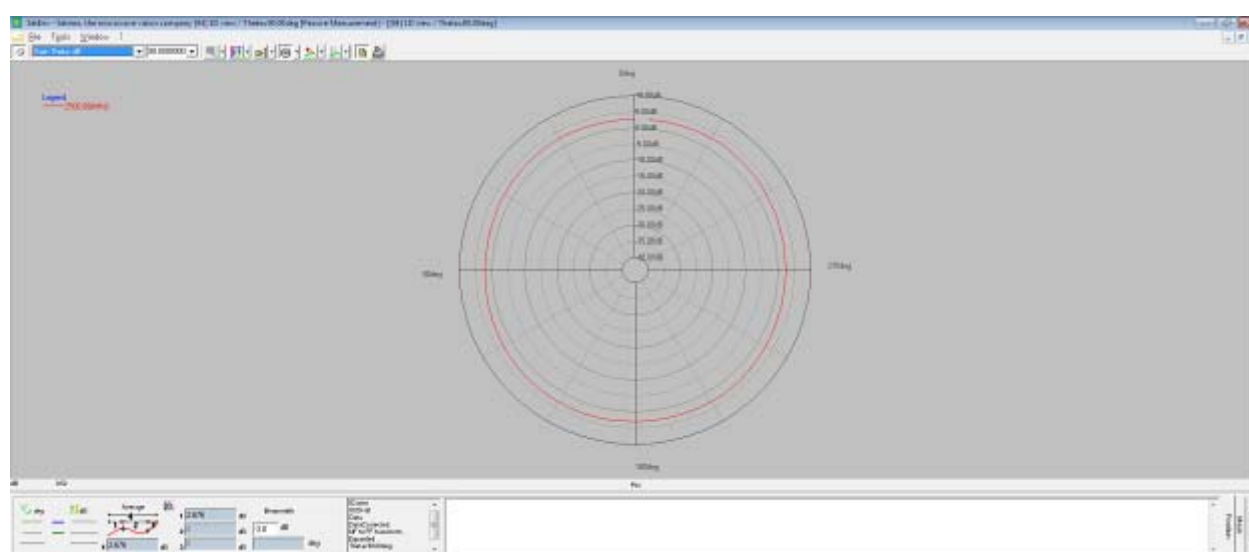
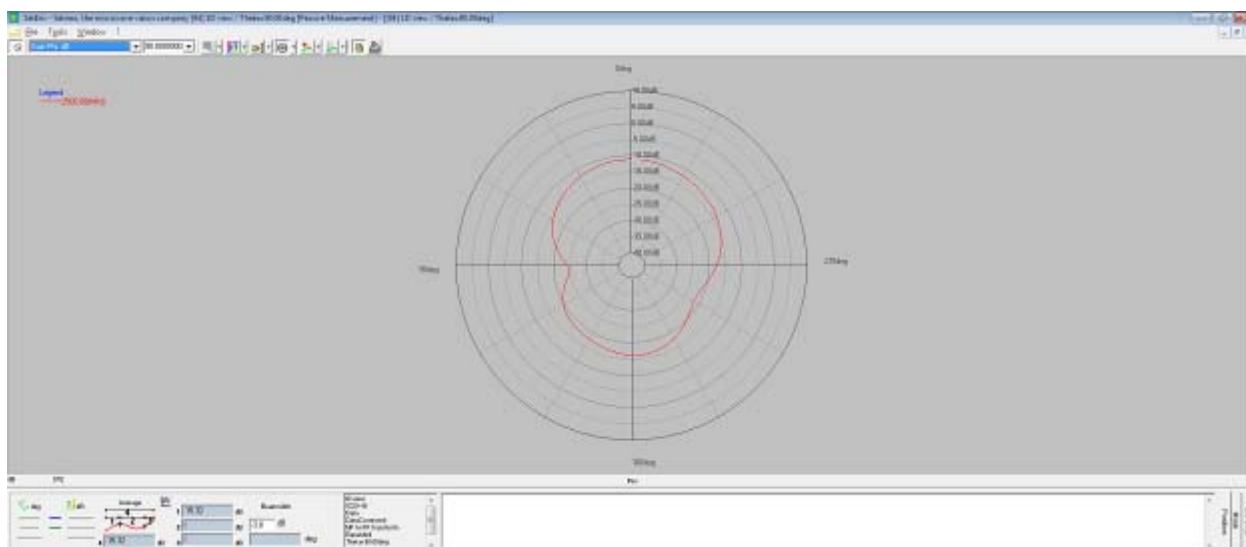
4.3.3 2500MHz



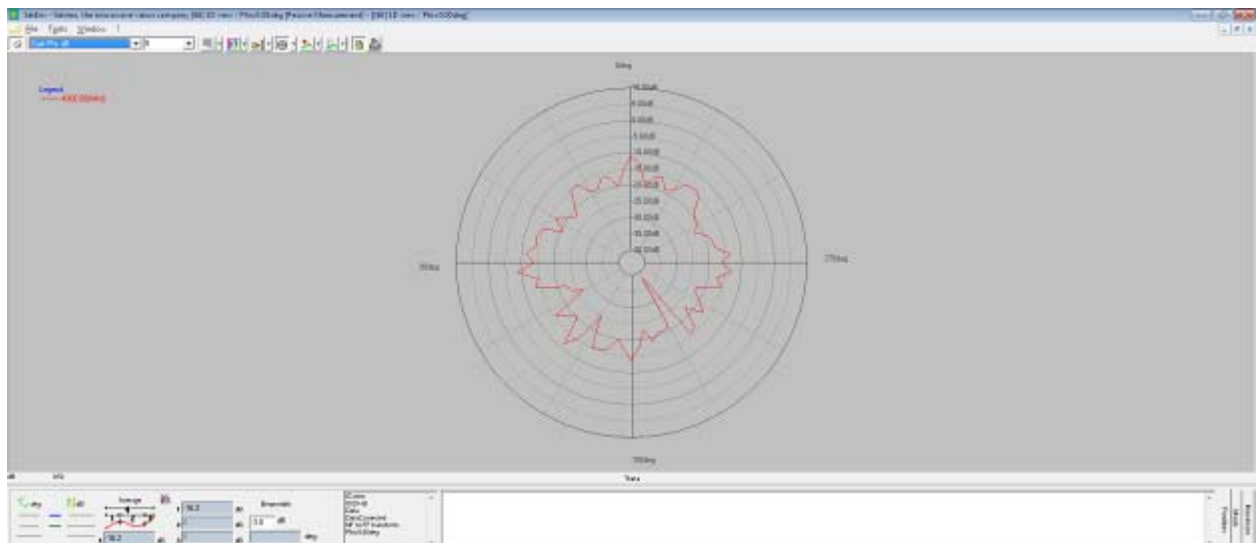
XZ-Phi



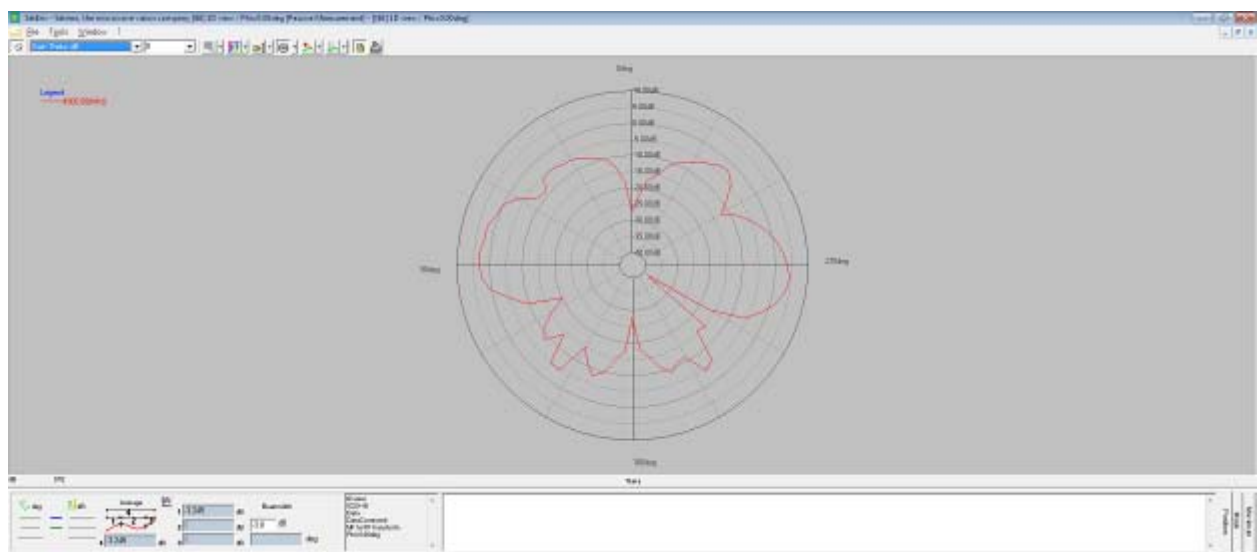
XZ-Theta



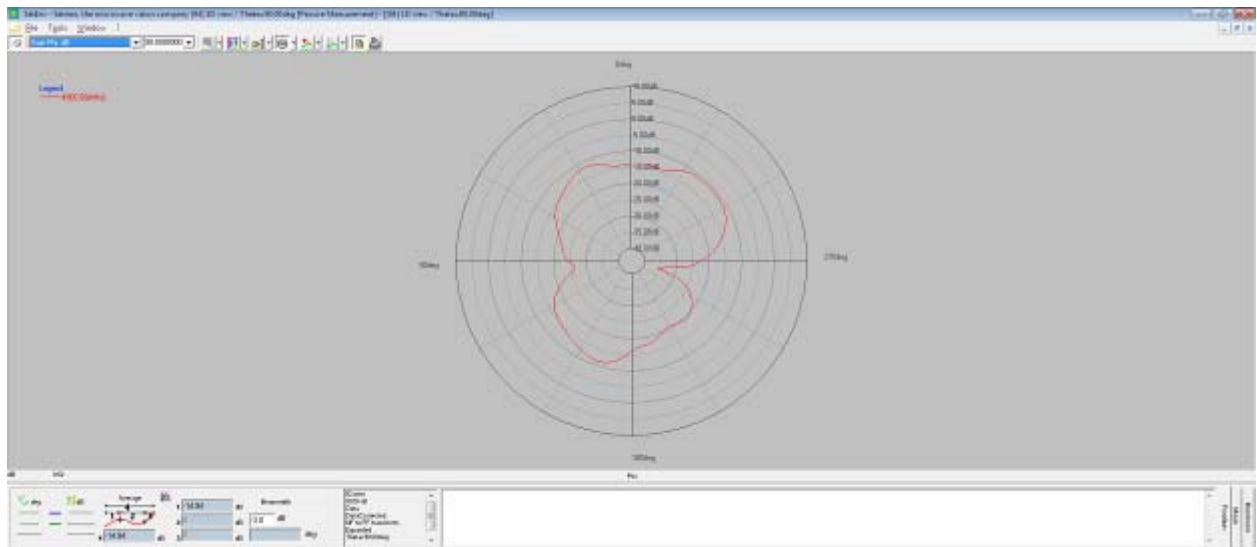
4.3.4 4900MHz



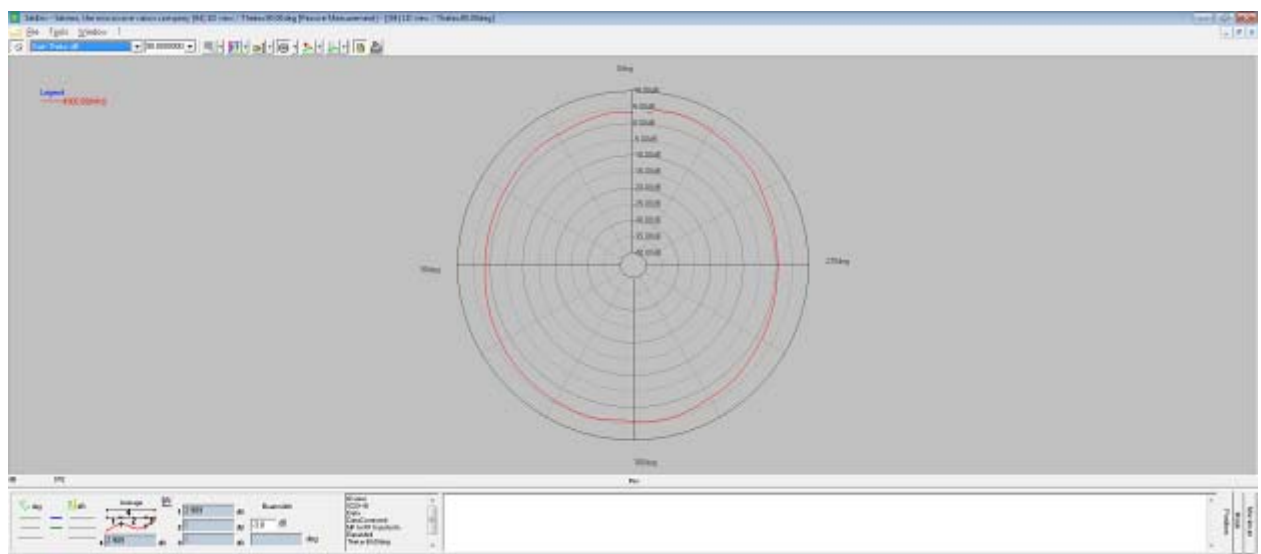
XZ-Phi



XZ-Theta

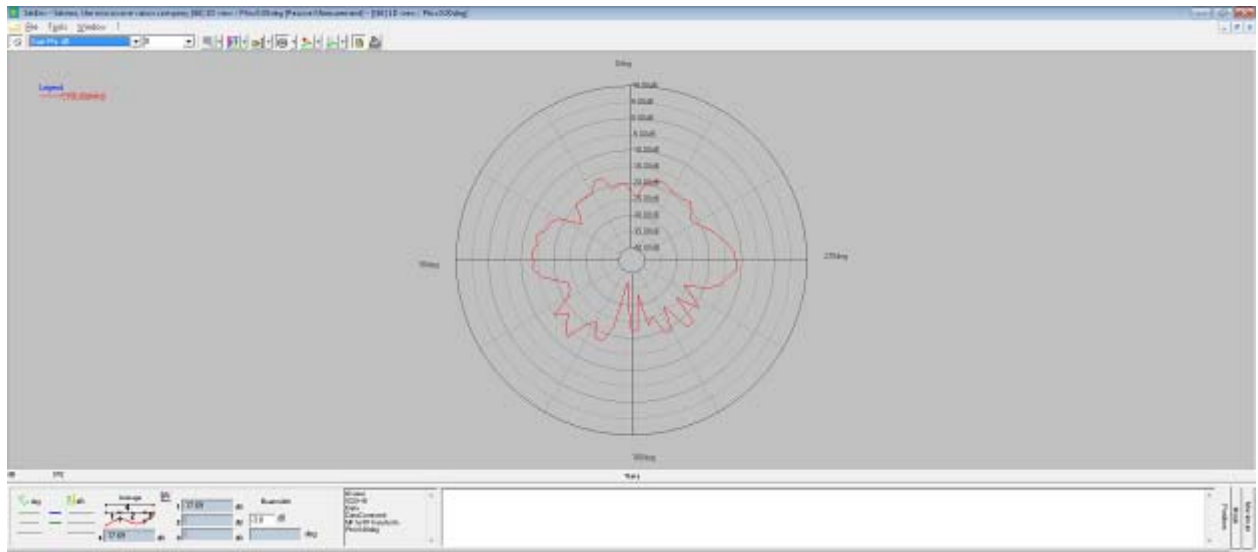


XY-Phi

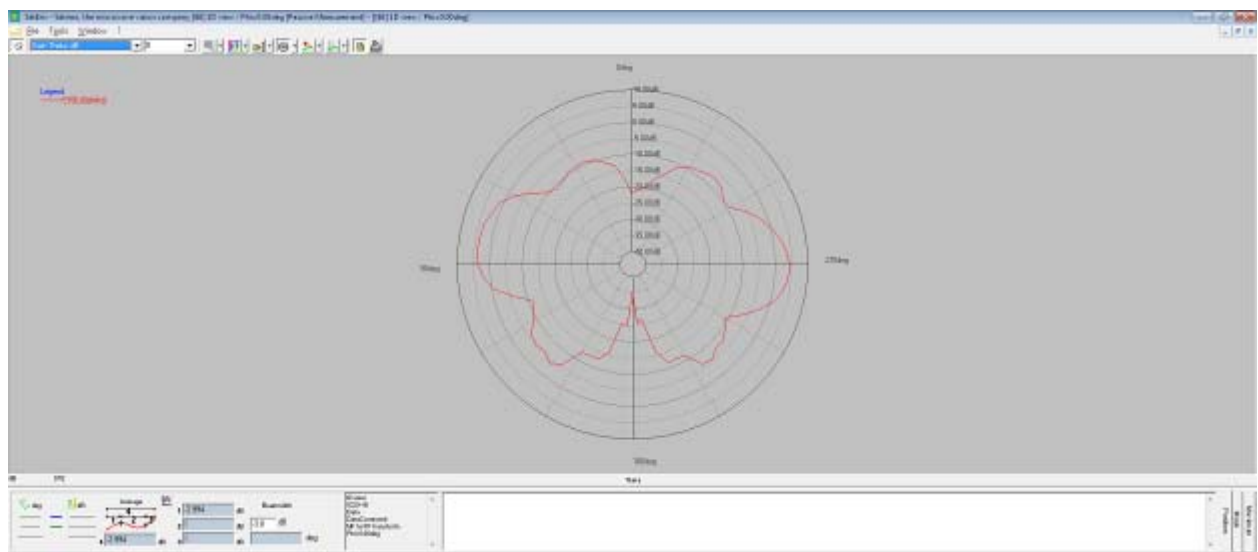


XY-Theta

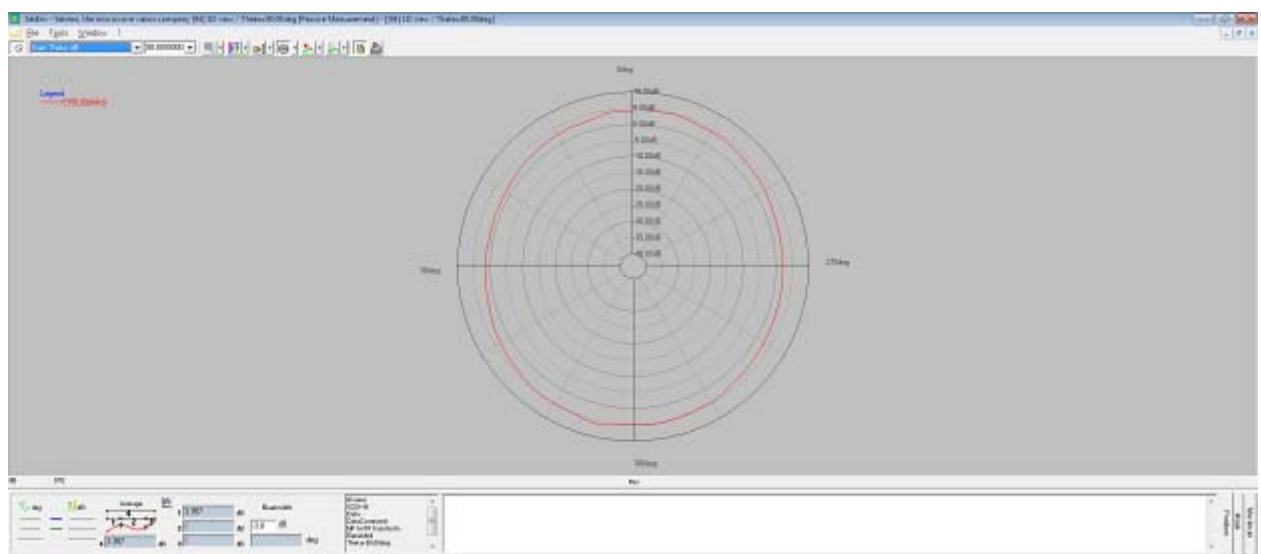
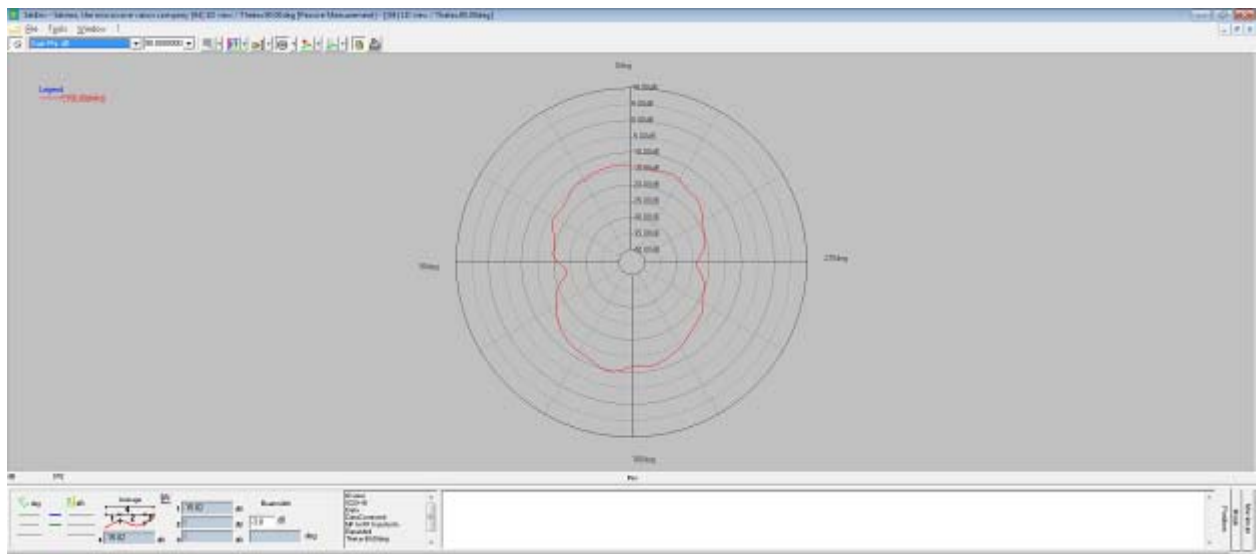
4.3.5 5150MHz



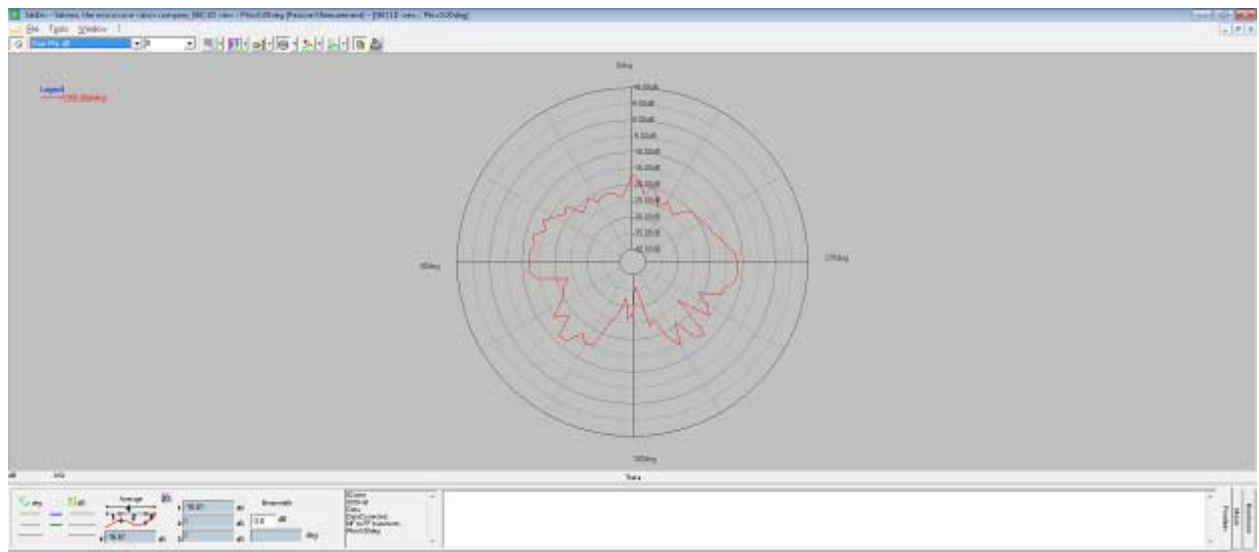
XZ-Phi



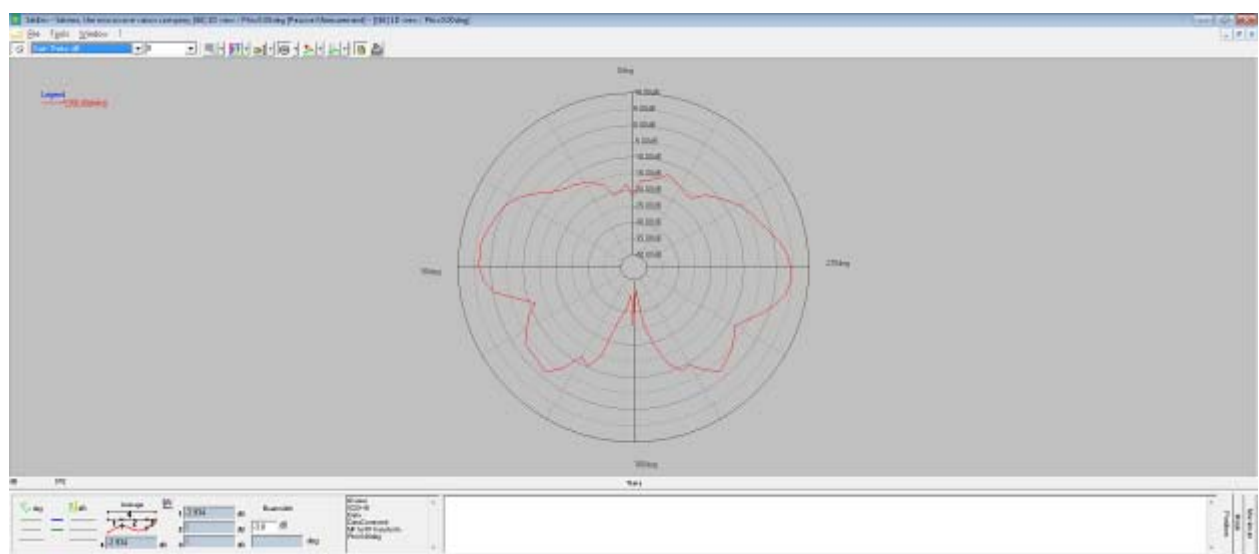
XZ-Theta



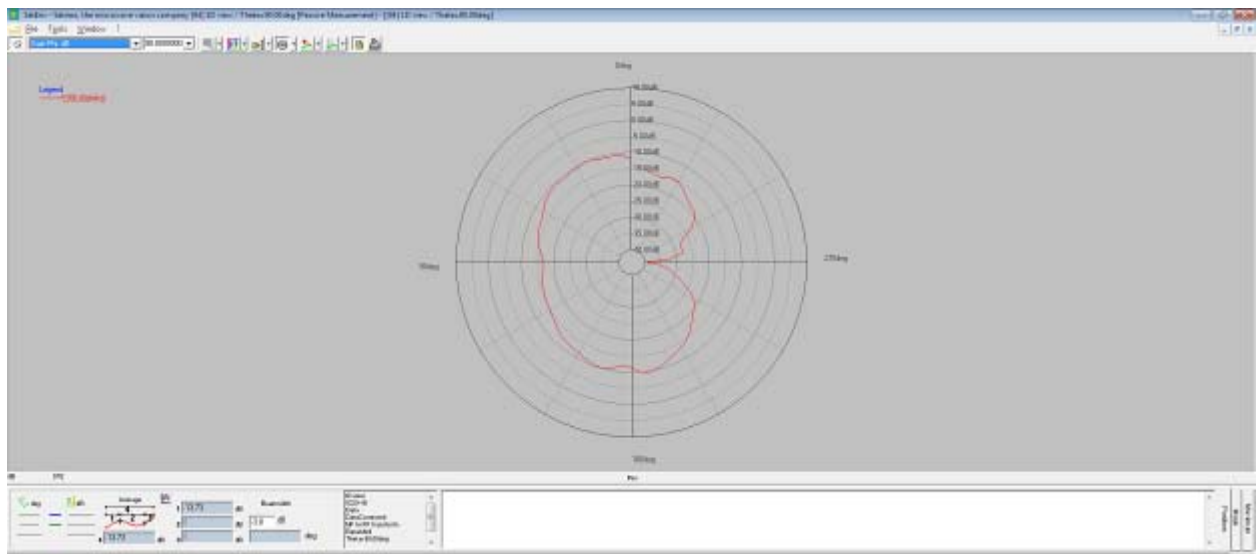
4.3.6 5350MHz



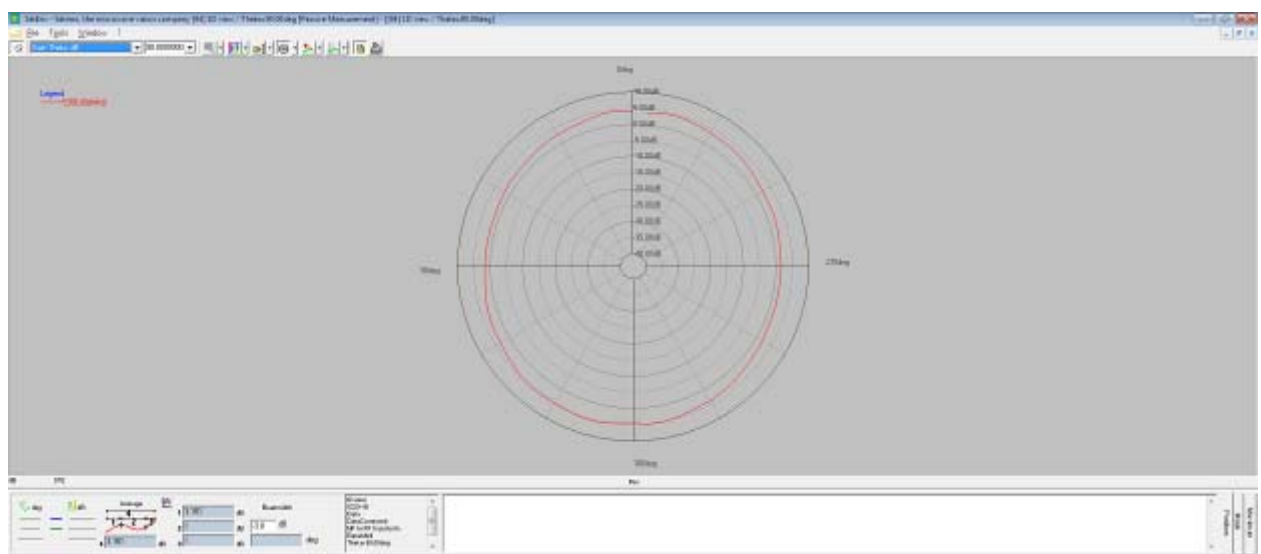
XZ-Phi



XZ-Theta

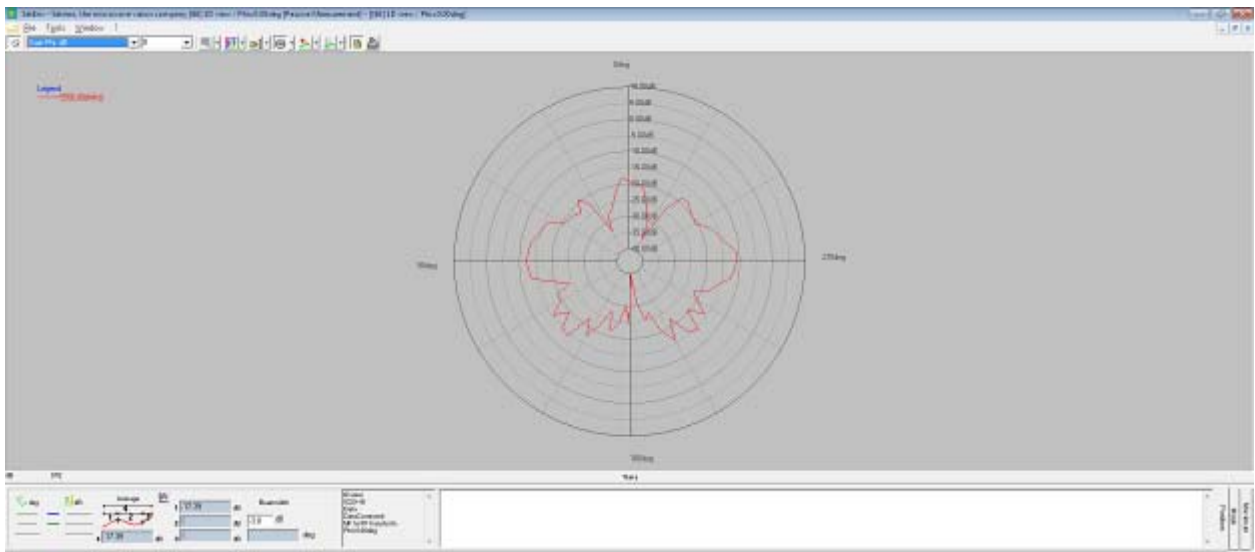


XY-Phi

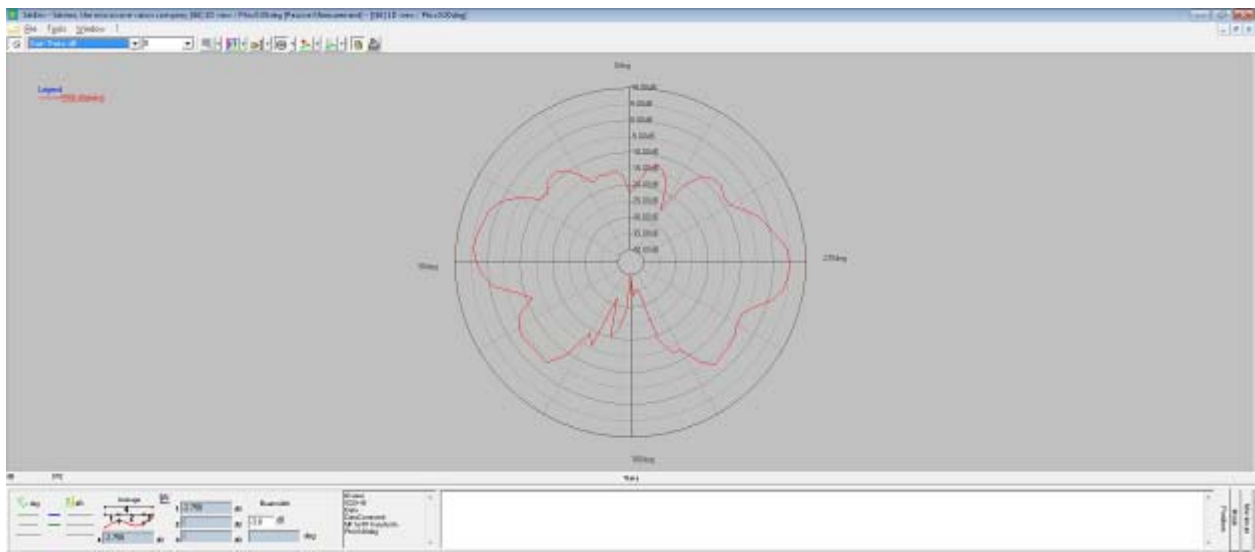


XY-Theta

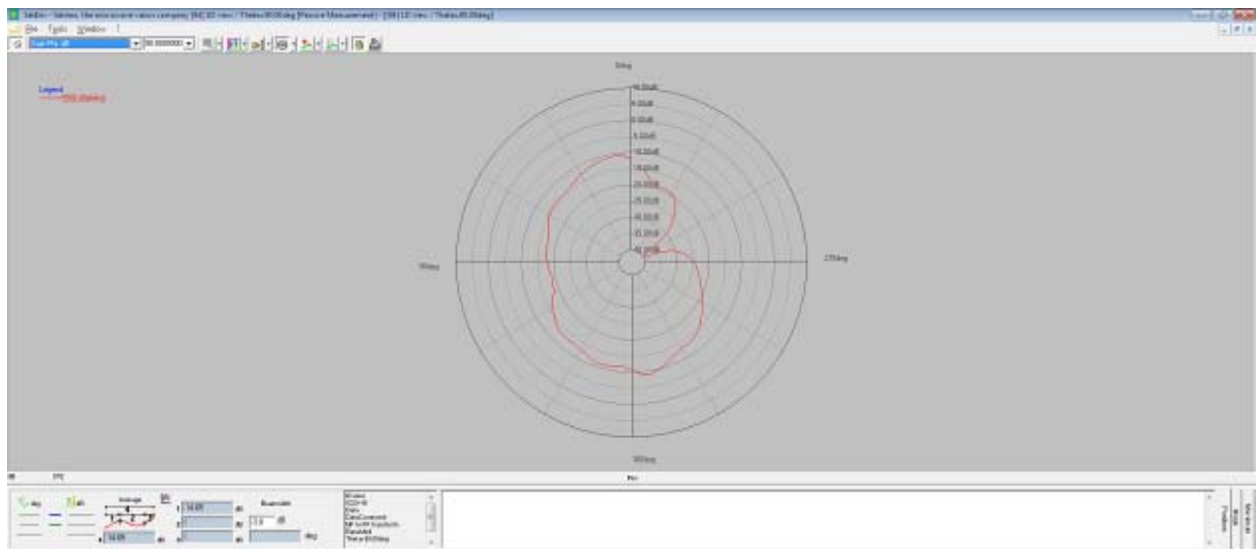
4.3.7 5550MHz



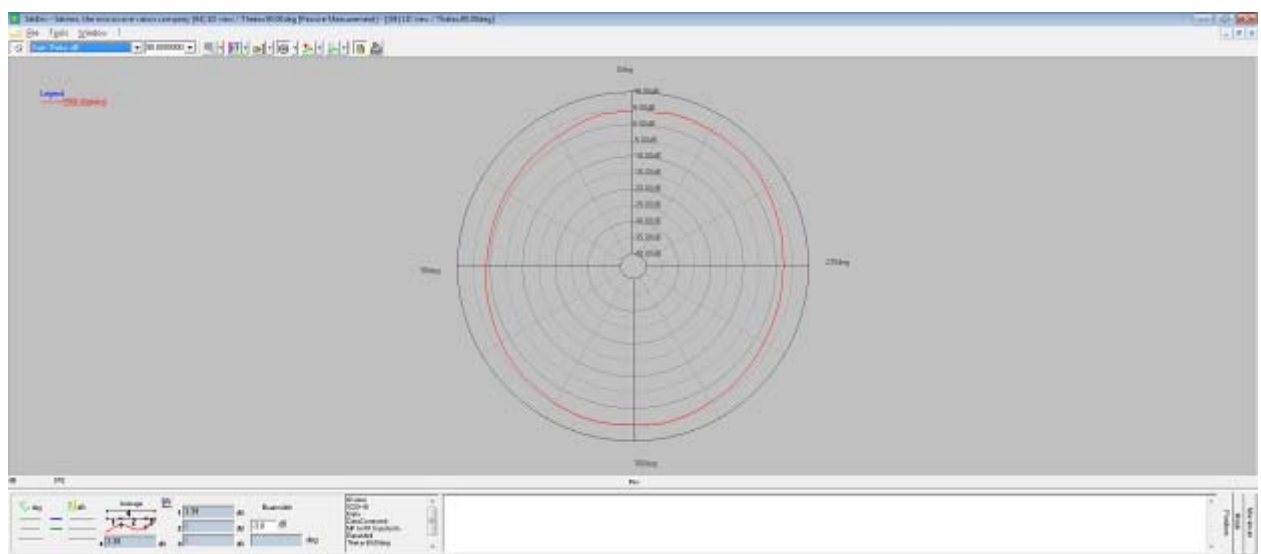
XZ-Phi



XZ-Theta

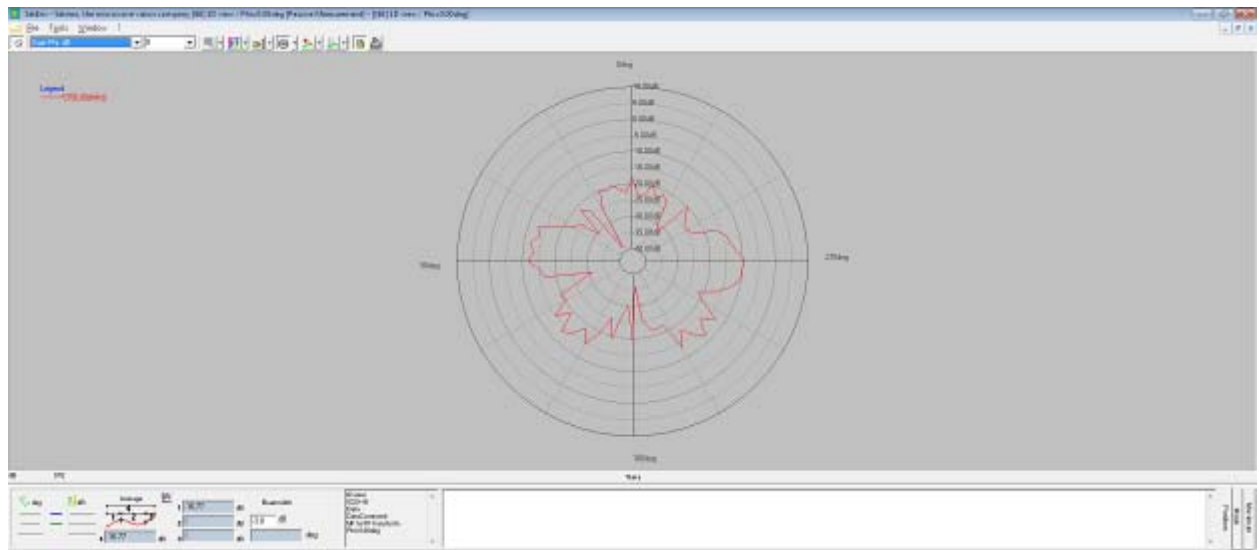


XY-Phi

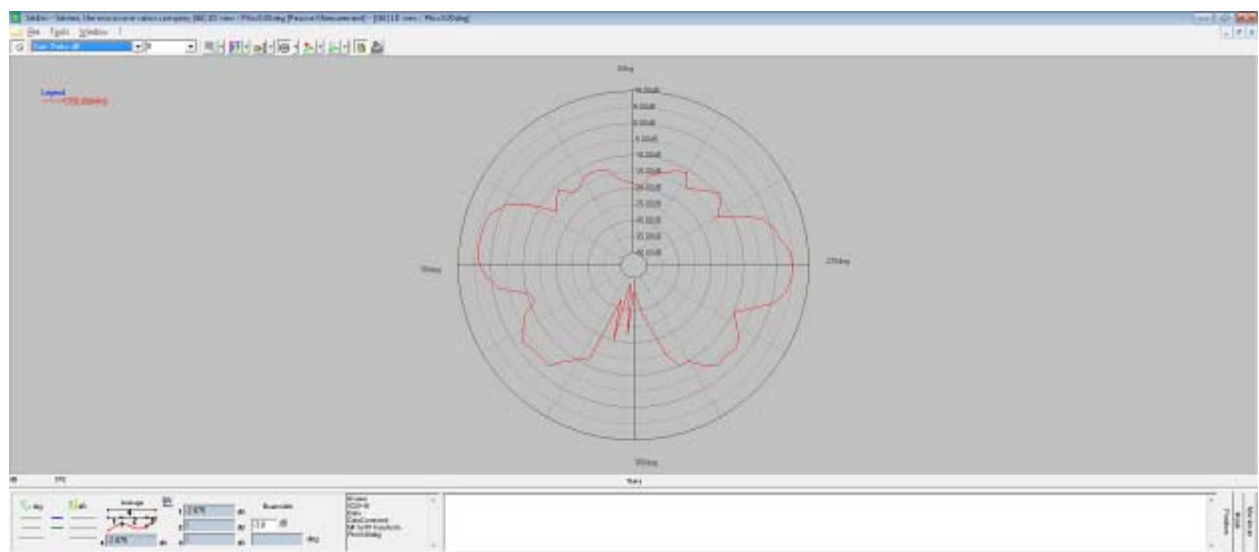


XY-Theta

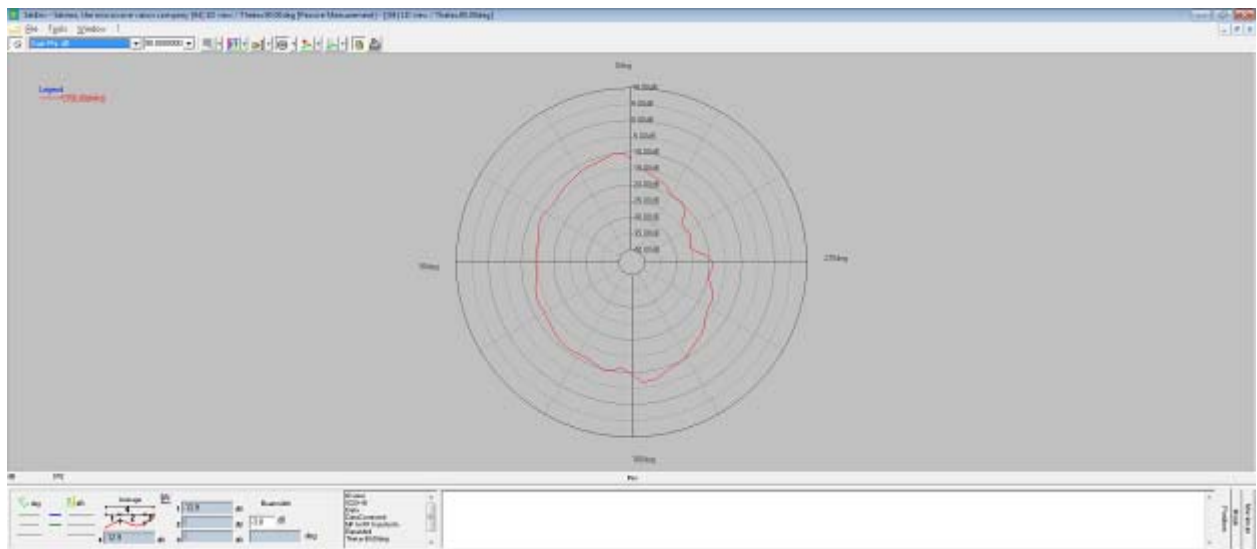
4.3.8 5750MHz



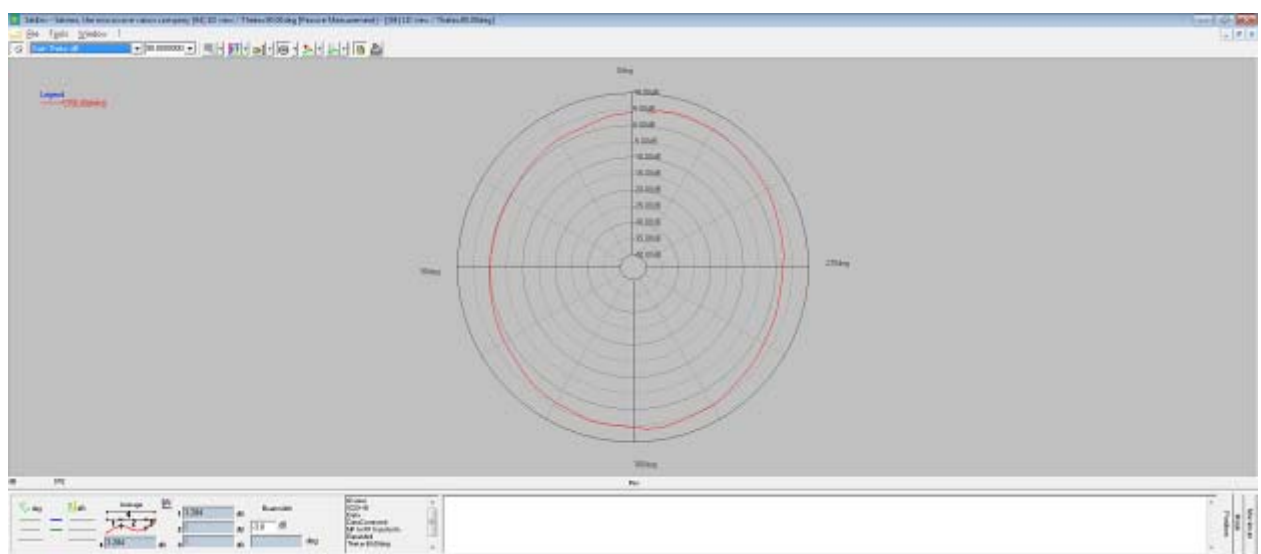
XZ-Phi



XZ-Theta

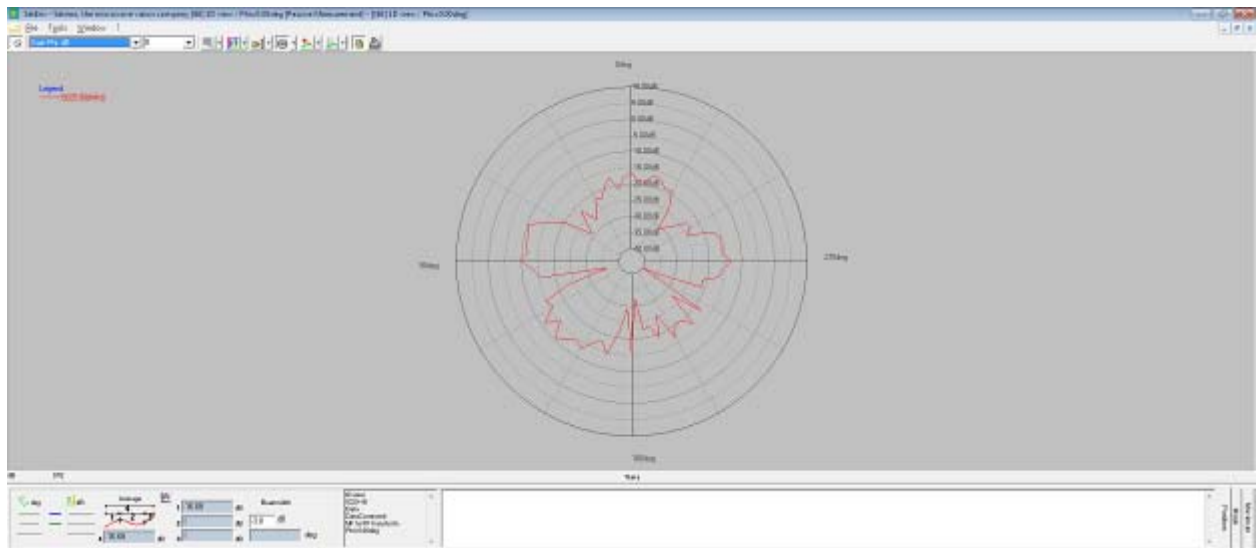


XY-Phi

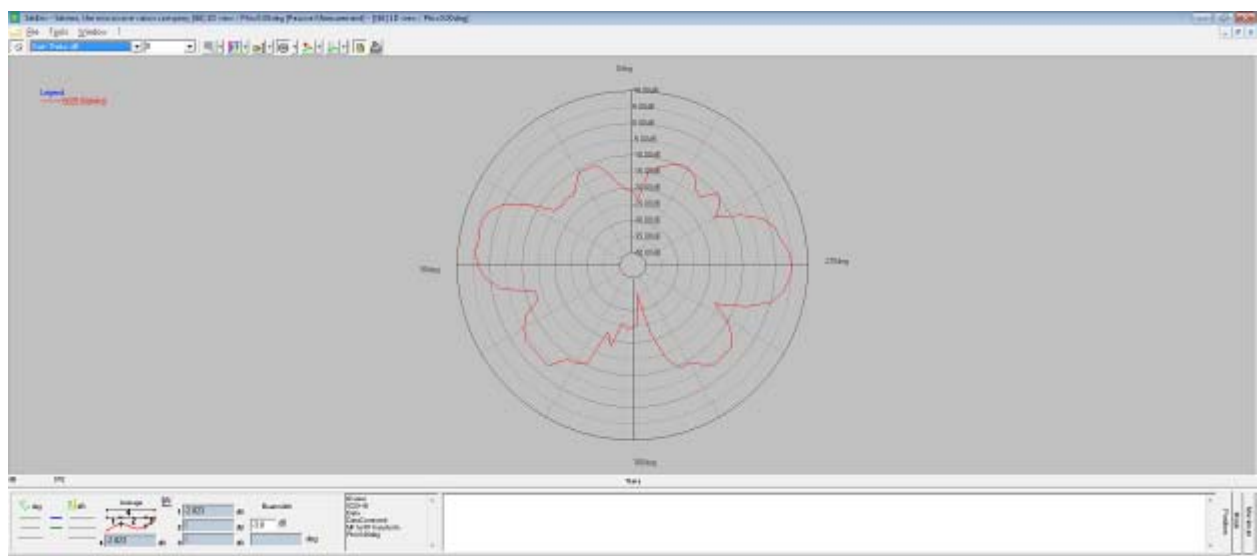


XY-Theta

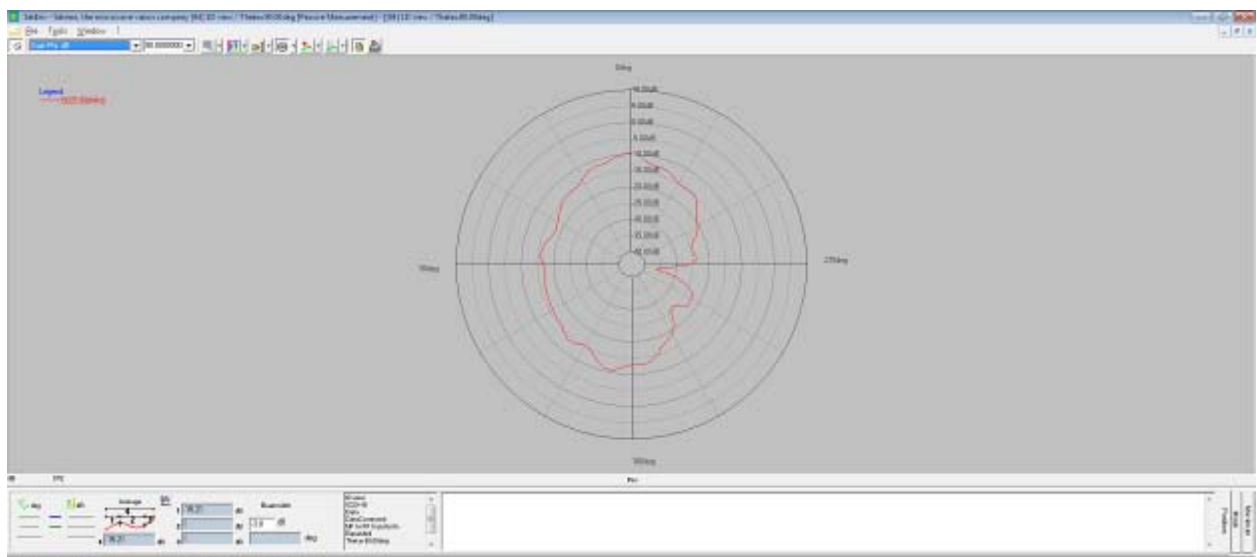
4.3.9 5825MHz



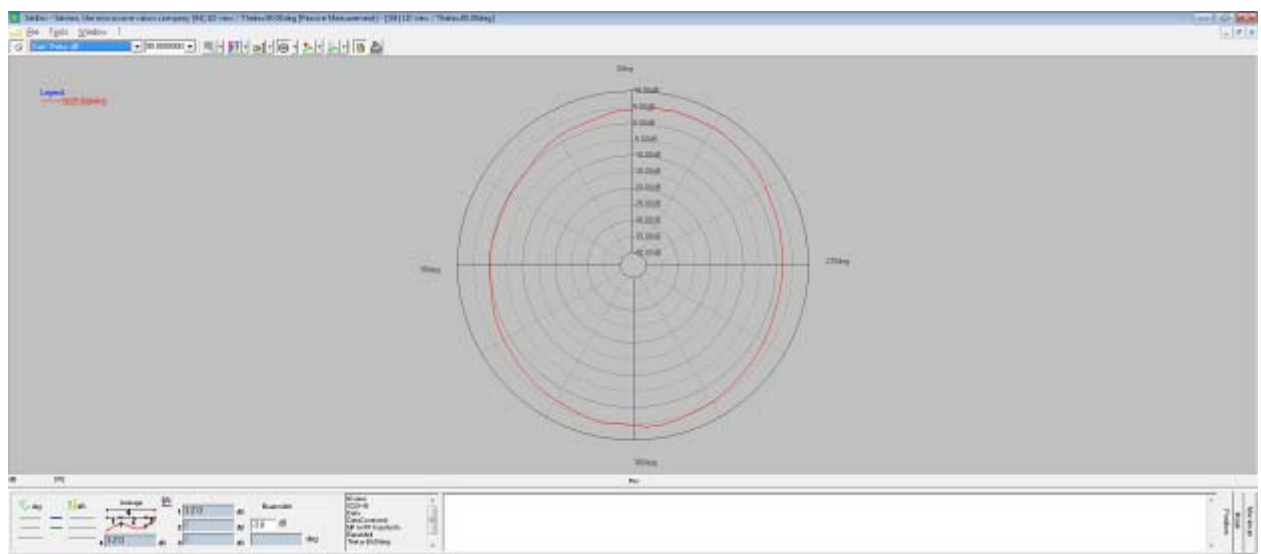
XZ-Phi



XZ-Theta



XY-Phi



XY-Theta

Frequency	Ant_1 (dB)
2400 MHz	-15.0
2450 MHz	-24.5
2500 MHz	-11.6
4900 MHz	-18.9
5150 MHz	-16.6
5350 MHz	-14.6
5550 MHz	-15.7
5750 MHz	-16.4
5825 MHz	-15.3

Frequency	Ant 1	
	Peak Gain (dBi)	Efficiency (%)
2400MHz	3.7	90%
2450MHz	3.8	93%
2500MHz	3.3	79%
4900MHz	5.2	63%
5150MHz	5.7	69%
5350MHz	5.7	68%
5550MHz	5.5	68%
5750MHz	6.3	69%
5825MHz	6.0	67%