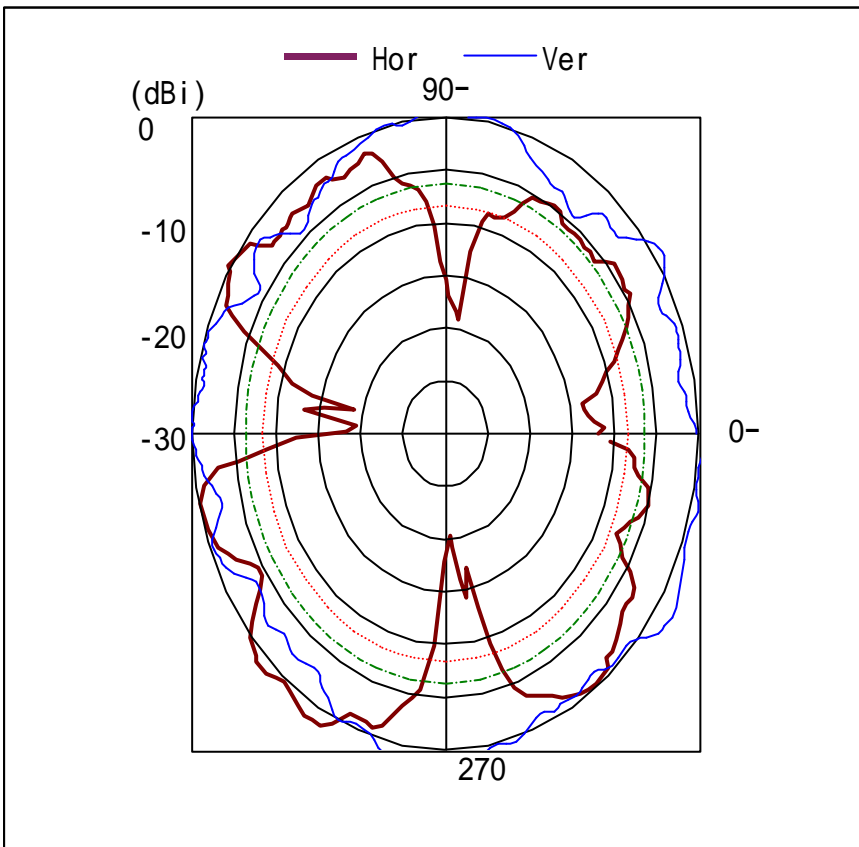


Model Name **Suzuka with New Dualband Film Ante**

Day	7/31/02	Plane	X-Y	Frequency	2.441
Data File	Suzuka100CswithWide	LCD Degre	90		
Data No.	3,4	Position	0:-Front 90- Right		
Antenna	Wireless LAN Main (Rig	Cable	Coaxial Cable 0.8	510mm	
Comment	Input 0dBm Sine Wave from SG				

<Antenna Gain>

	Horizontal	Vertical	
AVG	-3.5	-0.7	
MAX	1.5	2.0	(dBi)

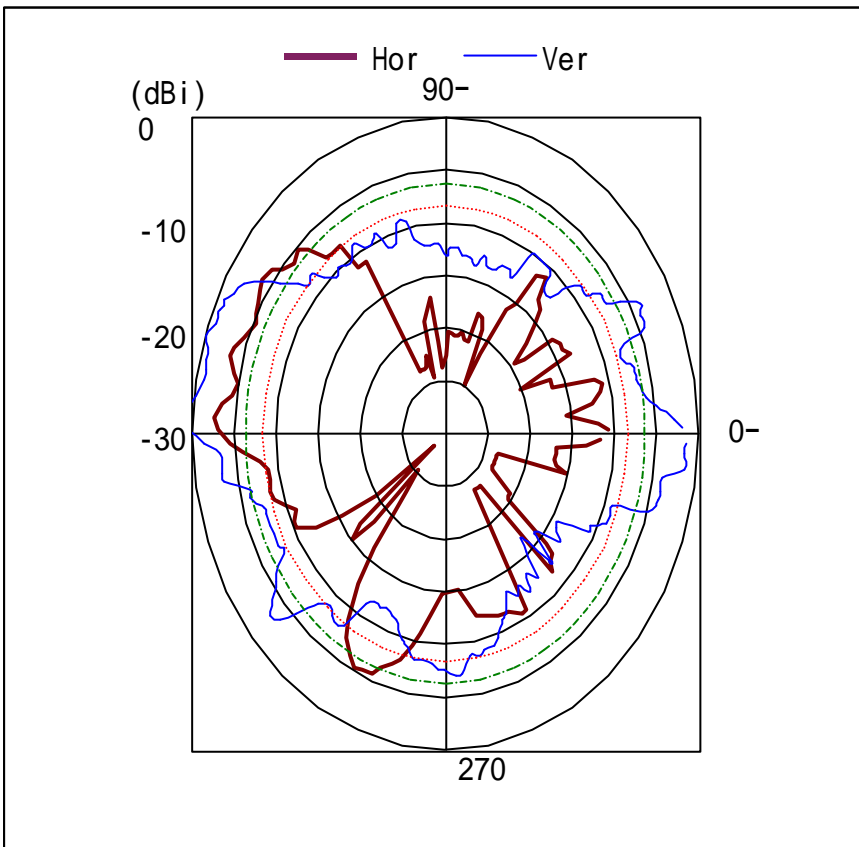


Model Name **Suzuka with New Dualband Film Ante**

Day	7/31/02	Plane	X-Y	Frequency	5350
Data File	Suzuka100CswithWidel	LCD Degre	90		
Data No.	2,6	Position	0:-Front 90- Right		
Antenna	Wireless LAN Main (Rig	Cable	Coaxial Cable 0.9	510mm	
Comment	Input 0dBm Sine Wave from SG				

<Antenna Gain>

	Horizontal	Vertical	
AVG	-10.0	-6.3	
MAX	-2.6	0.5	(dBi)



Toshiba PC Internal Antenna Data

1. Model Name

HTL012-P***

2. Frequency Range

2.4 – 2.5 GHz , 5.15 5.85GHz

3. Bandwidth

2.4GHz : Over 200MHz (VSWR :under 2)

5GHz : Over 900MHz(VSWR :under 2)

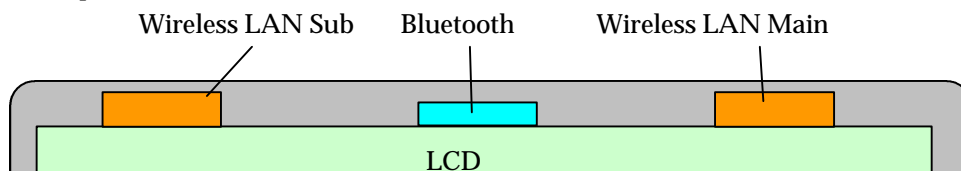
4. Gain (Average)

Antenna fixed on the LCD of Tecra9000

(Measure at Toshiba EMI Site)

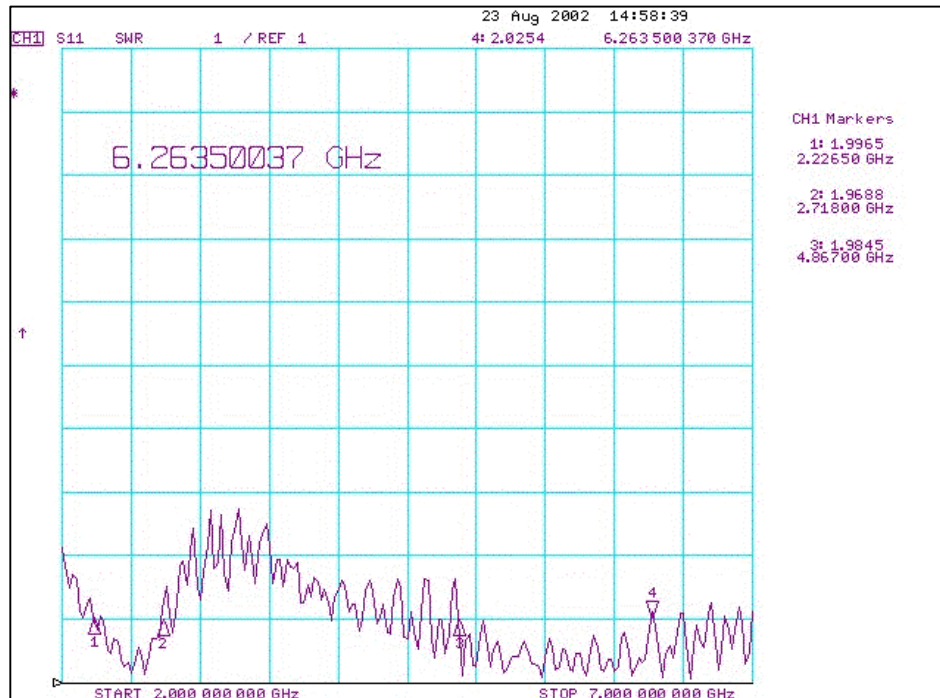
Antenna	X-Y PLANE (dBi)	
	Horizontal	Vertical
2.441GHz	-3.5	-0.7
5.350GHz	-10.0	-6.3

5. Antenna position



5. VSWR

Antenna attached on the Package of Tecra9000

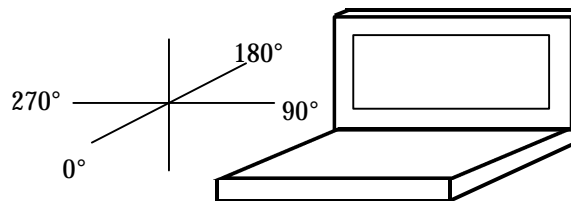


Wireless LAN Main Antenna

6. Radiation Pattern

Please refer to "HTL012AntennaData.xls" file.

The azimuth of graph drawn in xls file is bellow.



7. Polarization

Vertical

8. Impedance

50Ω