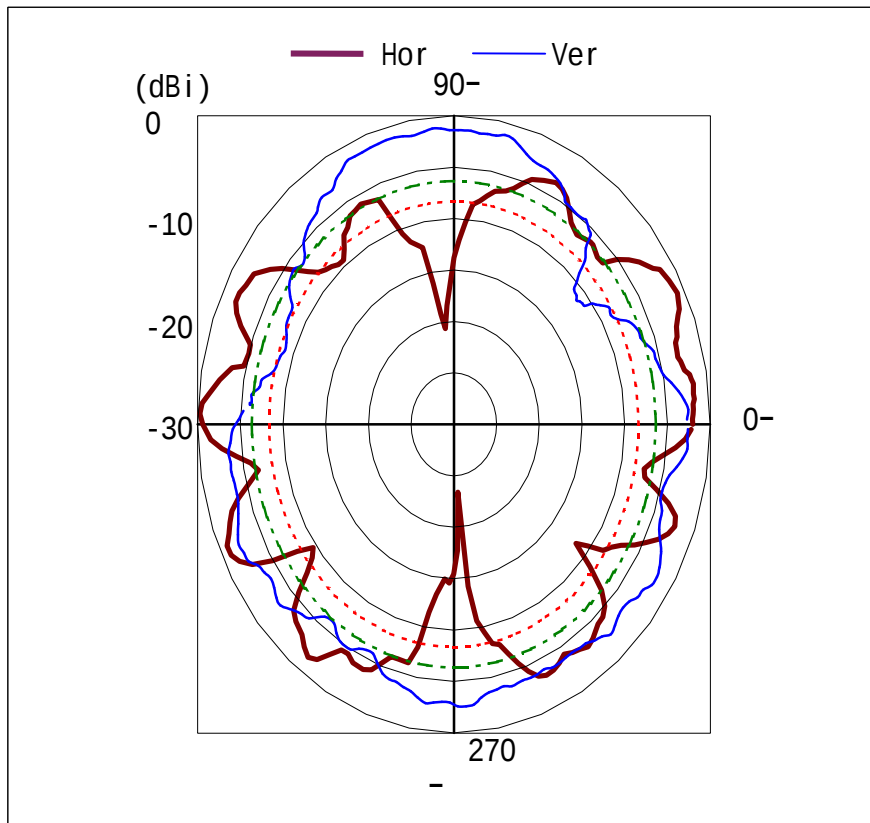


Model Name **SepangX10 with Singleband Film Antenna**

Day	5/10/02	Plane	X-Y	Frequency	2.442
Data File	SepangX10_14inch	LCD Degre	90		
Data No.	3,4	Position	0-:Front 90- Right		
Antenna	Wireless LAN Main (Rig	Cable	Coaxial Cable 0.8	555mm	
Comment	Input 0dBm Sine Wave from SG				

<Antenna Gain>

	Horizontal	Vertical	
AVG	-4.5	-3.8	
MAX	-0.3	-1.1	(dBi)



Toshiba PC Internal Antenna Data

1. Model Name

HTL004-P***

2. Frequency Range

2.4 – 2.5 GHz

3. Bandwidth

Over 200MHz (VSWR :under 2)

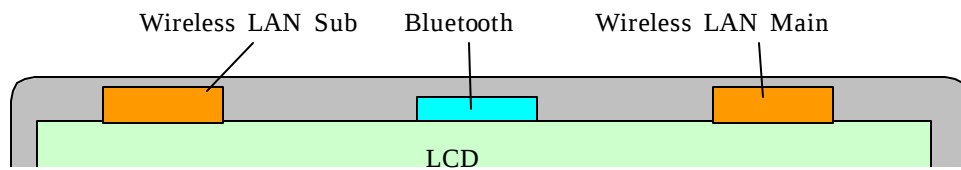
4. Gain (Average)

Antenna fixed on the LCD of Satellite1850

(Measure at Toshiba EMI Site)

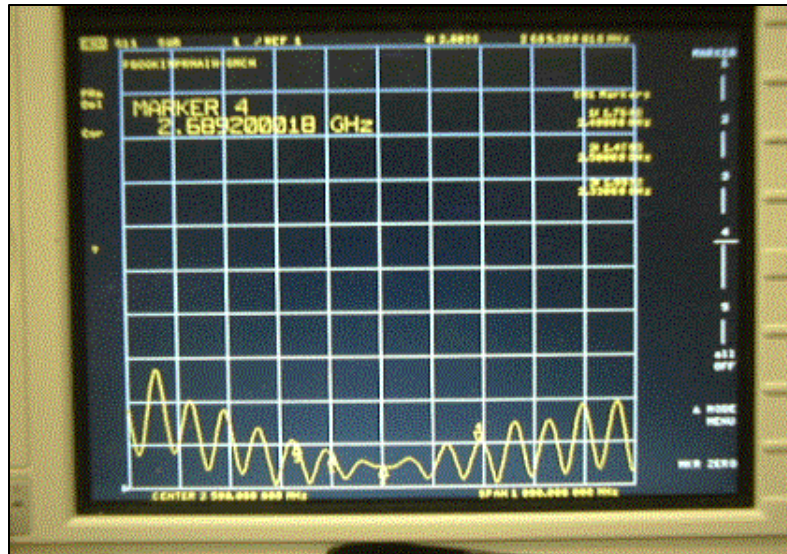
Antenna	X-Y PLANE (dBi)	
	Horizontal	Vertical
2.442GHz	-4.5	-3.8

5. Antenna position



5. VSWR

Antenna attached on the Package of Satellite 1850

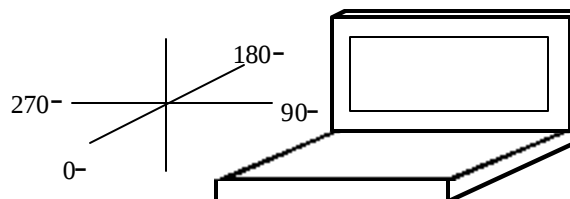


Bluetooth Antenna

6. Radiation Pattern

Please refer to "HTL004AntennaData.xls" file.

The azimuth of graph drawn in xls file is bellow.



7. Polarization

Vertical

8. Impedance

50