

6.2 Field Strength of the Carrier Test

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

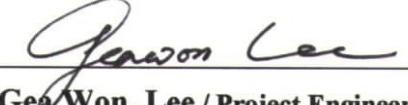
Humidity Level : 60 % Temperature : 22 $^{\circ}$
 Limits apply to : FCC CFR 47, PART 15, SUBPART C
 Result : PASSED BY -28.31 at Average mode and -8.41 dB at Peak mode
 Operating Condition : TX mode Date: October 12, 1998
 Distance : 3 Meter

Radiated Emissions			Ant	Correction Factors		Total		FCC Limit		
Carrier Freq. (MHz)	Ampl. (dBuV)		Pol.	Ant. (dB/m)	Cable (dB)	Average (dBuV/m)	Peak (dBuV/m)	Limit (dBuV/m)	Margin(dB)	
	Average	Peak							Average	Peak
310	27.4	47.3	H	14.41	5.20	47.01	66.91	75.32	-28.31	-8.41

*Remark: FCC Limit: 3,750 ~ 12,500uV/m to 260 ~ 470 MHz (linear interpolations)

Limit calculation at 310 MHz = $(12,500 - 3,750)/(470 - 260) \times (310 - 260) + 3,750 = 5,833.3\text{uV/m}$

$$20\log 5,833.3 = 75.32\text{dBuV/m}$$


 Measuring by : Geowon Lee / Project Engineer

6.3 Spurious Emission Test

Humidity Level : 60 % Temperature : 22
 Limits apply to : FCC CFR 47, PART 15, SUBPART C
 Result : PASSED BY -13.65 dB at Peak mode
 Operating Condition : TX mode
 Distance : 3 Meter

Date: October 12, 1998

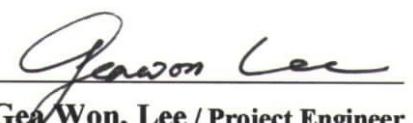
Radiated Emissions			Ant	Ext. RF Amp. (dBuV)	Correction Factors		Total(dBuV/m)		FCC Limit(dBuV/m)				
Freq. (MHz)	Amp.(dBuV)				Ant. (dBuV)	Cable (dB)	Average	Peak	Limit	Margin(dB)			
	Average	Peak								Average	Peak		
620.00	*	15.60	H	0	19.29	6.78	-	41.67	55.32	-	-13.65		
930.00	*	6.80	H	0	23.17	7.76	-	37.73	55.32	-	-17.59		
1240.00	*	24.50	H	25	27.97	8.30	-	35.77	55.32	-	-19.55		

Other spurious frequencies were not found up to 3000 MHz.

*Remark: FCC Limit: 375 ~ 1,250uV/m to 260 ~ 470MHz (linear interpolations)

Limit calculation at 310 MHz (Carrier Freq.) = $(1,250 - 375)/(470 - 260) \times (310 - 260) + 375 = 583.33\text{uV/m}$
 $20\log 583.33 = 55.32\text{dBuV/m}$

The marked "*" means less than 10dBuV.


 Measuring by : Gea Won, Lee / Project Engineer