

Compliance Certification Services

B-Site 7/8/2002 Mike H

Radiated Emissions
FCC 15.247

Radiolan
Transmitting with Radiowaves SEC-5H-90-CS Antenna

Company: Radiolan Marketing Group
EUT Descrip 5.775 GHz Point to Point DTS Transceiver
FCC ID: MCI-377

Equipment for 1-22 GHz:

HP8566B Analyzer
Miteq NSP2600-44 Preamp
EMCO 3115 Antenna
ARA MWH 1826/B Spec. Dist 3.0
Cable 17.0 feet

Equipment for 18 - 40 GHz:

HP8566B Analyzer
HP 11975A Amplifier (LO)
HP 11970K External Mixer/ARA
HP 11970 External mixer/ 26.5-40 GHz horn antenna
Cable: IF Only (321 MHz)

Peak Measurements:

1 MHz Resolution Bandwidth
1MHz Video Bandwidth

Average Measurements:

1MHz Resolution Bandwidth
10Hz Video Bandwidth

Freq GHz	Pol V/H	Det	SA dBuV	AF dB/m	Dist m	Dist dB	Preamp dB	Cable / HPF dB	Field dBuV/m	Limit dBuV/m	Margin dB
Note 1: RBW = 100 kHz for fundamental and spurious emissions outside restricted bands.											
Note 2: RBW = 1 MHz for spurious emissions within restricted bands.											
Fundamental:											
5.774	V	100 kHz	53.28	35.4	1.5	-6.0	0.0	3.7	86.36		
5.774	H	100 kHz	82.07	35.4	1.5	-6.0	0.0	3.7	115.15		
Harmonics and Spurious:											
7.511	H	Peak	56.2	37.5	1.5	-6.0	36.3	9.2	60.58	74	-13.42
7.511	H	Avg	25.4	37.5	1.5	-6.0	36.3	9.2	29.78	54	-24.22
7.511	V	Signal level at system noise floor									
The following signal was measured at the system noise floor:											
17.324	V/H	Peak	41.3	32.7	1.5	-6.0	38.7	18	47.28	74	-26.72
17.324	V/H	Avg	29.1	32.7	1.5	-6.0	38.7	18	35.08	54	-18.92
Note 3: No other spurious emissions were found.											

