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FCC ID: CLV-AP2000R

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#### TEST EQUIPMENT LIST

1. X Spectrum Analyzer: HP 8566B-Opt 462, S/N 3138A07786, w/  
preselector HP 85685A, S/N 3221A01400, Quasi-Peak Adapter  
HP 85650A, S/N 3303A01690 & Preamplifier HP 8449B-OPT H02,  
S/N 3008A00372 Cal. 10/17/99
2. X Biconnical Antenna: Eaton Model 94455-1, S/N 1057
3.    Biconnical Antenna: Electro-Metrics Model BIA-25, S/N 1171
4. X Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632
5.    Log-Periodic Antenna: Electro-Metrics Model LPA-30, S/N 409
6. X Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180,  
1-18 GHz, S/N 2319
7.    18-26.3GHz Systron Donner Standard Gain Horn #DBE-520-20
8.    Horn 40-60GHz: ATM Part #19-443-6R
9.    Line Impedance Stabilization Network: Electro-Metrics Model  
ANS-25/2, S/N 2604 Cal. 2/9/00
10.    Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
11.    Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 10/6/99
12.    Peak Power Meter: HP Model 8900C, S/N 2131A00545
13. X Open Area Test Site #1-3meters Cal. 12/22/99
14.    Signal Generator: HP 8640B, S/N 2308A21464 Cal. 9/23/99
15.    Signal Generator: HP 8614A, S/N 2015A07428
16.    Passive Loop Antenna: EMCO Model 6512, 9KHz to 30MHz, S/N  
9706-1211 Cal. 6/10/00
17.    Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153  
Cal. 11/24/99
18.    AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 9/21/99
19.    Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
20.    Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 9/21/99
21.    Oscilloscope: Tektronix Model 2230, S/N 300572 Cal 9/23/99

#### TEST PROCEDURE

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RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a preselector. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz. The ambient temperature of the UUT was 76°F with a humidity of 60%.

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TEST PROCEDURES CONTINUED

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz)	METER READING + ACF = FS
33	20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-1992 10.1.7 MEASUREMENT PROCEDURES: The unit under test was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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APPLICANT: RECOTON CORPORATION  
 MODEL: CLV-AP2000R  
 NAME OF TEST: RADIATION INTERFERENCE  
 RULES PART NUMBER: 15.109  
 REQUIREMENTS: 30 to 88 MHz: 40.0 dBuV/M @ 3 METERS  
 88 to 216 MHz: 43.5 dBuV/M  
 216 to 960 MHz: 46.0 dBuV/M  
 ABOVE 960 MHz: 54.0 dBuV/M

TEST RESULTS: A search was made of the spectrum from 30 to 5000 MHz and the measurements indicate that the unit DOES meet the FCC requirements.

TEST DATA:

TUNED FREQ. MHz	EMISSION FREQUENCY MHz	METER READING @ 3m dBuV	COAX LOSS dB	A.C.F. dB	FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT.
912.00	979.90	9.60	2.90	25.24	37.74	16.26	V
912.00	1959.80	25.00	1.02	27.84	53.86	0.14	V
914.00	979.90	9.60	2.90	25.24	37.74	16.26	V
914.00	1959.80	25.00	1.02	27.84	53.86	0.14	V

SAMPLE CALCULATION:  $FSdBuV/m = MR(dBuV) + ACFdB$ .

TEST PROCEDURE: ANSI STANDARD C63.4-1992 using a Hewlett Packard Model 8566B spectrum analyzer, a Hewlett Packard Model 85685A Preselector, a Hewlett Packard Model 85650A Quasi-Peak adapter, and an appropriate antenna - see the test equipment list. The bandwidth of spectrum analyzer was 100 kHz with an appropriate sweep speed. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported.

PERFORMED BY: JOSEPH SCOGLIO

DATE: April 2, 2001

