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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
- 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

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. The UUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a preselector. 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 up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the UUT was 74.3oF with a humidity of 69%.

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TEST PROCEDURE 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

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STAN-DARD C63.4-1992 using a 50uH LISN. Both lines were observed. The bandwidth of the spectrum analyzer was 10kHz with an appropriate sweep speed. The ambient temperature of the UUT was 74.3oF with a humidity of 69%.

ANSI STANDARD C63.4-1992 10.1.7 MEASUREMENT PROCEDURES: The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The UUT was placed in the center of the table (1.5m side). 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.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSIC63.4-1992 with the EUT 40 cm from the vertical ground wall.

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APPLICANT: RECOTON CORPORATION

FCC ID: CLVIC40HP-T

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.249

REQUIREMENTS:

FIELD STRENGTH FIELD STRENGTH S15.209

of Fundamental: of Harmonics 30 - 88 MHz 40 dBuV/m @3M

902-928 MHZ 88 -216 MHz 43.5 2.4-2.4835 GHz 216 -960 MHz 46

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

TEST RESULTS: This unit DOES meet the FCC requirements.

TEST DATA:

MARGIN	ANT.
dВ	POL.
10.16	H
11.58	V
	dB 10.16

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. The spectrum was searched to at least the tenth(10) harmonic of the fundamental.

PERFORMED BY: JOSEPH SCOGLIO DATE: DECEMBER 27, 2000

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APPLICANT: RECOTON CORPORATION

FCC ID: CLVIC40HP-T

NAME OF TEST: Occupied Bandwidth

RULES PART NO.: 15.249

REQUIREMENTS: The field strength of any emissions appearing

outside the band edges and up to $10\ \mathrm{kHz}$ above and below the band edges shall be attenuated at least $50\ \mathrm{dB}$ below the level of the carrier

or to the general limits of 15.249.

THE PLOT ON THE NEXT PAGE REPRESENTS THE EMISSIONS TAKEN FOR THIS DEVICE.

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to $-10~\mathrm{dBm}$ per division. The horizontal scale is set to $20~\mathrm{kHz}$ per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: JOSEPH SCOGLIO DECEMBER 27, 2000

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