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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
- 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
- 10. Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
- 11.____Frequency Counter: HP Model 5385A, S/N 3242A07460
- 12.___Peak Power Meter: HP Model 8900C, S/N 2131A00545
- 13. X Open Area Test Site #1-3meters
- 14.___Signal Generator: HP 8640B, S/N 2308A21464
- 15.___Signal Generator: HP 8614A, S/N 2015A07428
- 16.___Passive Loop Antenna: EMCO Model 6512, 9KHz to 30MHz, S/N 9706-1211
- 17.___Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153
- 18.___AC Voltmeter: HP Model 400FL, S/N 2213A14499
- 19.___Digital Multimeter: Fluke Model 8012A, S/N 4810047
- 20.___Digital Multimeter: Fluke Model 77, S/N 43850817
- 21.___Oscilloscope: Tektronix Model 2230, S/N 300572

TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

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 $100 \, \mathrm{KHz}$ and the video bandwidth was $300 \, \mathrm{KHz}$. The ambient temperature of the UUT was $82^{\circ}\mathrm{C}$ with a humidity of 68%.

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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 lm 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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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.235

REQUIREMENTS: CARRIER FREQUENCY WILL NOT EXCEED 80 dBuV/m AT 3M.

OUT-OF-BAND EMISSIONS SHALL NOT EXCEED:

30 - 88 MHz 40.0 dBuV/M MEASURED AT 3 METERS 88 - 216 MHz 43.5 dBuV/M 216 - 960 MHz 46.0 dBuV/M ABOVE 960 MHz 54.0 dBuV/M

TEST DATA:

Emission	Meter	Ant.	Coax		Field	
Frequency	Reading	Polarity	Loss	Correction	Strength	Margin
MHz	dBuv		dВ	Factor dB	dBuv/m	đВ
49.86	66.7	v	0.80	11.00	78.50	1.50
100.00	17.2	v	1.20	8.25	26.65	16.85
150.00	9.0	v	1.40	16.90	27.30	16.20
199.00	18.4	H	1.80	12.60	32.80	10.70
249.00	10.8	v	2.00	13.77	26.57	19.43
299.00	5.8	H	2.20	15.50	23.50	22.50
349.00	6.2	H	2.50	14.35	23.05	22.95
399.00	9.1	H	2.80	16.91	28.81	17.19
449.00	5.6	v	3.10	17.01	25.71	20.29

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

TEST PROCEDURE: The procedure used was ANSI STANDARD C63.4-1992. The spectrum was scanned from 30 MHz to 1000 MHz. 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 UUT was tested in 3 orthogonal planes.

TEST RESULTS: THE UNIT DOES MEET THE FCC REQUIREMENTS.

PERFORMED BY: JOSEPH SCOGLIO DATE: AUGUST 2, 2001

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NAME OF TEST: Occupied Bandwidth

RULES PART NO.: 15.235

REQUIREMENTS: The field strength of any emissions appearing

between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits of 15.209, whichever permits the higher emission

levels.

THE GRAPH ON THE NEXT PAGE REPRESENTS THE EMISSIONS TAKEN FOR THE DEVICE.

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was taken. The vertical scale is set to $-10~\mathrm{dBm}$ per division. The horizontal scale is set to $5~\mathrm{kHz}$ per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

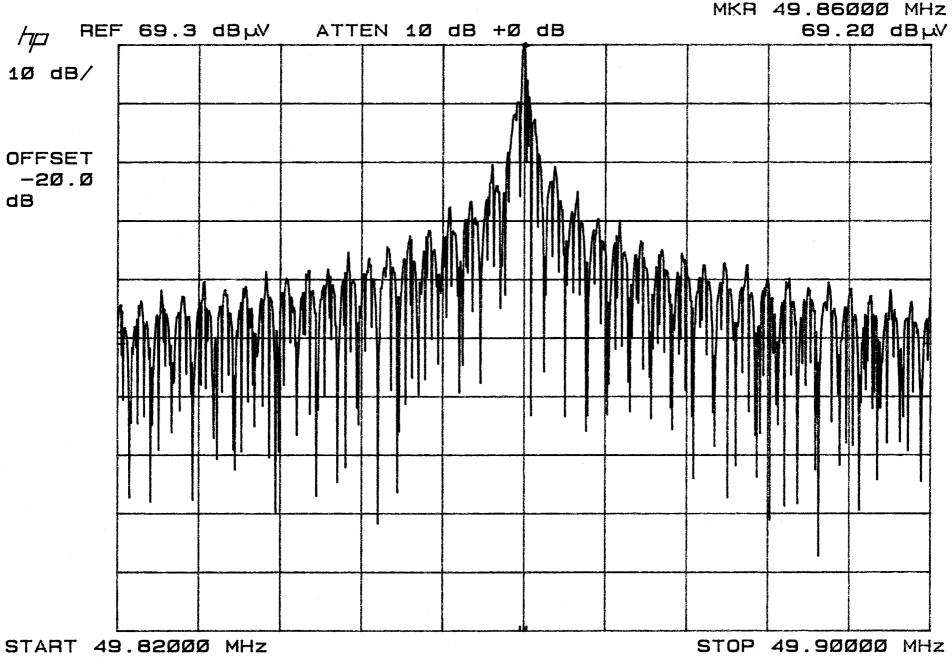
PERFORMED BY: JOSEPH SCOGLIO DATE: AUGUST 2, 2001

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START 49.82000 MHZ RES BW 300 Hz

VBW 100 kHz

STOP 49.90000 MHz SWP 2.0 sec