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FCC ID: J7IER372

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TEST EQUIPMENT LIST

- 1. 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. Biconnical Antenna: Eaton Model 94455-1, S/N 1057
- 3. Biconnical Antenna: Electro-Metrics Model BIA-25, S/N 1171
- 4. Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632
- 5. Log-Periodic Antenna: Electro-Metrics Model LPA-30, S/N 409
- 6. 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
- 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. 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 100KHz and the video bandwidth was 300KHz. The ambient temperature of the UUT was 92° with a humidity of 48%.

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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

ANTENNA_AND_GROUND_CIRCUITRY

This unit makes use of a short, antenna. The antenna is inductively coupled. The antenna is self contained, no provision is made for an external antenna. This unit is powered from a 9.0V battery.

No ground connection is provided. The unit relies on the ground tract of the printed circuit board.

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FCC ID: J7IER372

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.227

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				
ABOV	Е	960	MHz	54.0	dBuV/M				

TEST DATA:

Emission	Meter	Ant.	Coax		Field	
Frequency	Reading	Polarity	Loss	Correction	Strength	Margin
MHz	dBuv		dB	Factor	dBuv/m	dB
				dB		
27.00	32.8	v	0.60	10.25	43.65	36.35
54.00	5.5	v	0.90	7.75	14.15	25.85

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: STUART LOPATA DATE: JULY 24, 2001

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NAME OF TEST: Occupied Bandwidth

RULES PART NO.: 15.227

REQUIREMENTS: The field strength of any emissions appearing outside the 26.96-27.28 MHz band shall not exceed the general radiated emission limits in (15.209).

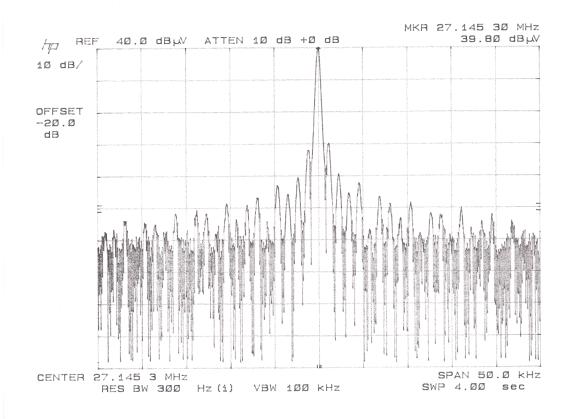
THE GRAPH ON THE NEXT PAGE REPRESENTS THE WORSE CASE OCCUPPIED BANDWIDTH EMISSIONS FOR THIS DEVICE.

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 dBm per division. The horizontal scale is set to 5 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: STUART LOPATA

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