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APPLICANT: SUNCON TOYS INDUSTRY LTD.

FCC ID: GLE136002T

TEST REPORT CONTAINING:

EXHIBITS CONTAINING:

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 8565OA, 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.___Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180, 1-18 GHz, S/N 2319
7.___Horn 40-60GHz: ATM Part #19-443-6R
8.___Line Impedance Stabilization Network: Electro-Metrics Model ANS-25/2, S/N 2604 Cal. 2/9/00
9.___Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
10.___Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 10/6/99
11.___Peak Power Meter: HP Model 8900C, S/N 2131A00545
12._X_Open Area Test Site #1-3meters Cal. 12/22/99
13.___Signal Generator: HP 8640B, S/N 2308A21464 Cal. 9/23/99
14.___Signal Generator: HP 8614A, S/N 2015A07428
15.___Passive Loop Antenna: EMCO Model 6512, 9KHz to 30MHz, S/N 9706-1211 Cal. 6/10/00
16.___Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153 Cal. 11/24/99
17.___AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 9/21/99
18.___Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
19.___Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 9/21/99
20.___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.

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 80oC with a humidity of 76%.

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.

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.

CIRCUIT DESCRIPTION:

Q2 is the RF crystal transistor that then drives Q1, the RF driver/buffer transistor. IC TX6B generates the different modulations that are mixed with the RF at the base of Q1. At the collector of Q1 is the circuit combination of C1, 2, 3, and L1, that act as an impedance match to the antenna as well as harmonic filter. L2 and L3 are RF coils in the 49 MHz range that are in the collector circuits of their respective transistors.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of a external 5" antenna. The antenna is inductively coupled.

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

APPLICANT: SUNCON TOYS INDUSTRY LTD.

FCC ID: GLE136002T

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 FREQUENCY MHz	METER READING AT 3 METERS dBuV	COAX LOSS dB	ANTENNA CORRECTION FACTOR dB	PEAK FIELD STRENGTH dBuV/m@3m	MARGIN dB	ANT. POL.
49.86	55.90	0.25	10.99	67.14	12.86	V
99.70	13.00	0.80	8.39	22.19	21.31	V
149.60	5.90	0.80	16.90	23.60	19.90	V
249.30	15.90	1.20	13.35	30.45	15.55	V
299.20	7.70	1.40	15.65	24.75	21.25	V
349.00	5.70	1.40	15.52	22.62	23.38	V
398.90	8.30	1.40	16.97	26.67	19.33	V

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.

TEST RESULTS: THE UNIT DOES MEET THE FCC REQUIREMENTS.

PERFORMED BY: MARIO R. DE ARANZETA DATE: JULY 19, 2000

APPLICANT: SUNCON TOYS INDUSTRY LTD.

FCC ID: GLE136002T

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 GRAPHS IN EXHIBITS 10 REPRESENT 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 dBm per division. The horizontal scale is set to 5 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: MARIO R. DE ARANZETA DATE: JULY 19, 2000