

TABLE OF CONTENTS LIST

APPLICANT: TOYMAX INC.

FCC ID: NLKTM13309849

TEST REPORT CONTAINING:

PAGE 1.....TEST EQUIPMENT LIST AND TEST PROCEDURE
PAGE 2.....TEST PROCEDURE CONTD.
PAGE 3.....RADIATION INTERFERENCE TEST DATA
PAGE 4.....OCCUPIED BANDWIDTH TEST DATA
PAGE 5.....OCCUPIED BANDWIDTH PLOT

EXHIBITS CONTAINING:

EXHIBIT 1.....BLOCK DIAGRAM
EXHIBIT 2.....SCHEMATIC
EXHIBIT 3A-C.....INSTRUCTION MANUAL
EXHIBIT 4.....LABEL SAMPLE AND LOCATION
EXHIBIT 5.....EXTERNAL PHOTO - FRONT SIDE
EXHIBIT 6.....EXTERNAL PHOTO - BACK SIDE
EXHIBIT 7.....INTERNAL PHOTO - COMPONENT SIDE
EXHIBIT 8.....INTERNAL PHOTO - COPPER SIDE
EXHIBIT 9.....CIRCUIT DESCRIPTION
EXHIBIT 10.....TEST SET UP PHOTO

APPLICANT: TOYMAX INC.

FCC ID: NLKTM13309849

REPORT #: T\TOYMAX\795U1\795U1RPT.doc

PAGE #: TABLE OF CONTENTS

APPLICANT: TOYMAX INC.
FCC ID: NLKTM13309849

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 93°C with a humidity of 45%.

APPLICANT: TOYMAX INC.
FCC ID: NLKTM13309849

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.

APPLICANT: TOYMAX INC.

FCC ID: NLKTM13309849

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 dBuV | Ant. Polarity | Coax Loss dB | Correction Factor dB | Field Strength dBuV/m | Margin dB |
|---------------------------|-----------------------|---------------|-----------------|-------------------------|--------------------------|--------------|
| 49.86 | 64.9 | V | 0.80 | 11.00 | 76.70 | 3.30 |
| 99.80 | 16.2 | V | 1.20 | 8.25 | 25.65 | 17.85 |
| 149.70 | 15.7 | V | 1.40 | 16.90 | 34.00 | 9.50 |
| 199.60 | 9.9 | V | 1.80 | 12.60 | 24.30 | 19.20 |
| 249.50 | 11.7 | V | 2.00 | 13.77 | 27.47 | 18.53 |
| 299.40 | 13.1 | V | 2.20 | 15.50 | 30.80 | 15.20 |
| 349.30 | 24.3 | V | 2.50 | 14.35 | 41.15 | 4.85 |
| 399.20 | 16.5 | V | 2.80 | 16.91 | 36.21 | 9.79 |
| 448.90 | 18.5 | V | 3.10 | 17.01 | 38.61 | 7.39 |
| 498.60 | 16.9 | V | 3.10 | 17.43 | 37.43 | 8.57 |

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: JULY 25, 2001

APPLICANT: TOYMAX INC.

FCC ID: NLKTM13309849

REPORT #: T\TOYMAX\795U1\795U1RPT.doc

PAGE #: Page 3 of 5

APPLICANT: TOYMAX INC.

FCC ID: NLKTM13309849

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 THE NEXT PAGE REPRESENTS THE EMISSIONS TAKEN FOR THE DEVICE.

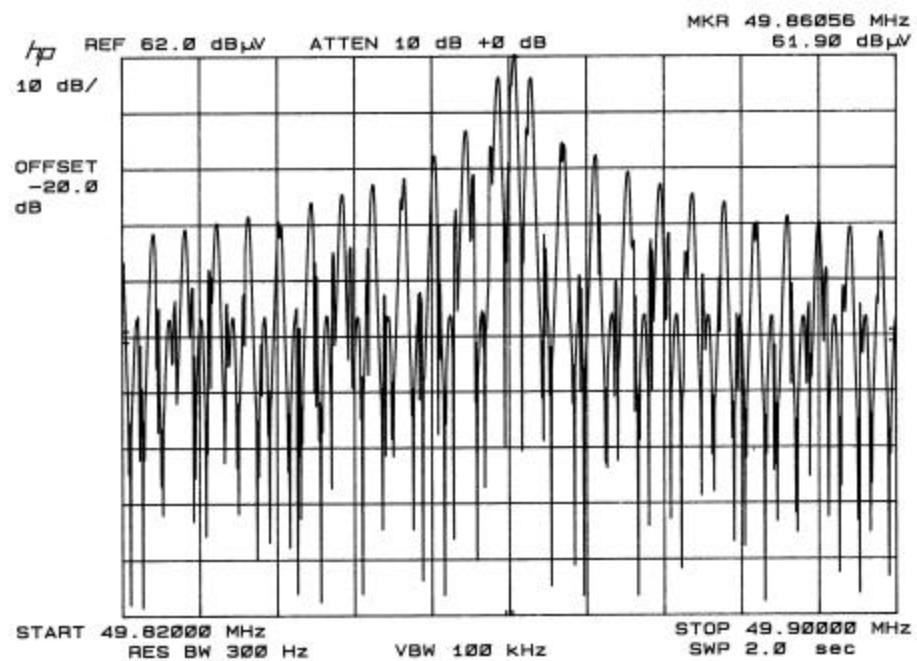
METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was taken. The vertical scale is set to -10 dBm per division. The horizontal scale is set to 5 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY: JOSEPH SCOGLIO

DATE: JULY 25, 2001

APPLICANT: TOYMAX INC.
FCC ID: NLKTM13309849
REPORT #: T\TOYMAX\795U1\795U1RPT.doc
PAGE #: Page 4 of 5



APPLICANT: TOYMAX INC.
FCC ID: NLKTM13309849
REPORT #: T\TOYMAX\795U1\795U1RPT.doc
PAGE #: Page 5 of 5