



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14

TEST REPORT

Page 1 of 7

No.: KM0024/504

APPLICANT: (Code: 021464)

TRENDMASTERS, INC.
Units 1106-8 Mirror Tower,
61 Mody Road, Tsimshatsui East,
Kowloon, Hong Kong.

DATE OF SAMPLES RECEIVED: 1998.04.30

DATE OF TESTING: 1998.05.12

DESCRIPTION OF SAMPLE(S):

A sample of product said to be:

Product: 27MHz Transmitter Remote Controlled Toys
Manufacturer: Kin Yat Ind. Toys Factory
Model Number: 31268
Band Name: NIL
Rating: DC 9V ("6F22" size battery X 1)
Origin: Made in China

INVESTIGATIONS REQUESTED:

Measurement to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart C - Intentional Radiator.

RESULT/ REMARK: Please see attached sheet(s).

CONCLUSION:

From the measurement data obtained, the tested sample was considered to have COMPLIED with the clauses 15.227 of Federal Communications Commission Rules and Regulations Part 15.

TEST EQUIPMENT AUDIT: Please see Appendix A

Low Man Kit

Testing Engineer

Steve Tang

Verify by


Patrick Wong
for Managing Director

Conditions in Issuance of Test Report

1. This Report is issued in confidence to the client and it will be strictly treated as such by the Hong Kong Standards and Testing Centre Ltd. It may not be reproduced either in its entirety or in part and it may not be used for advertising. The client to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Hong Kong Standards and Testing Centre Ltd, to his customer, supplier or other persons directly concerned. The Hong Kong Standards and Testing Centre Ltd, will not, without the consent of the client, enter into any discussion or correspondence with any third party concerning the contents of the Report. 2. The report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Hong Kong Standards and Testing Centre Ltd, and is stated as such in the Report. 3. In the event of the improper use of the report, the Hong Kong Standards and Testing Centre Ltd, reserves the rights to withdraw it, and to adopt any other remedies which may be appropriate. 4. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Hong Kong Standards and Testing Centre Ltd. 5. The Hong Kong Standards and Testing Centre Ltd, will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations. 6. Applicants wishing to use the Report in court proceedings or arbitration shall inform the Hong Kong Standards and Testing Centre Ltd, to that effect prior to submitting the sample for testing.



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14
No.: KM0024/504

TEST REPORT

Page 2 of 7

TEST SUMMARY

***** INTENTIONAL RADIATOR :*****

- (1) Measurement of Emission of RF energy on the carrier frequency.....Satisfactory
Measurement of the out-of band emissions including harmonics.....Satisfactory
- (2) Measurement of Emission Within Band Edges.....Satisfactory
- (3) Measurement of Line-Conducted Voltage onto AC Power Line.....Not applicable

TEST DATA

Please refer to the attached result sheets.



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14

TEST REPORT

Page 3 of 7

No.: KM0024/504

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference

TEST REFERENCE: FCC Rules Part 15 Section 15.227 (26.96-27.28 MHz)

TEST CONDITION : Normal

TEST DATE : 1998.05.12

Emission of RF energy on the carrier frequency -- 27.146 MHz

(PEAK VALUE)

Emission Frequency	Meter Reading	Polarization	Antenna Factor	Field Strength (at 3m)	FCC Limit		
MHz	dB(μV)	H-V	dB	dB(μV/m)	μV/m	μV/m	
27.1	48.9	V	+	18.6	67.5	2371.4	100000

Emission of RF energy on the carrier frequency -- 27.146 MHz

(AVERAGE VALUE)

Emission Frequency	Meter Reading	Polarization	Antenna Factor	Field Strength (at 3m)	FCC Limit		
MHz	dB(μV)	H-V	dB	dB(μV/m)	μV/m	μV/m	
27.1	38.0	V	+	18.6	56.6	676.1	10000

... to be continued



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14

TEST REPORT

Page 4 of 7

No.: KM0024/504

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference .. Continued ..

TEST REFERENCE: FCC Rules Part 15 Section 15.227 (26.96-27.28 MHz)

TEST CONDITION : Normal

TEST DATE : 1998.05.12

**The out-of-band emissions, including harmonics (25-1000 MHz)
(CISPR VALUE)**

Emission Frequency	Meter Reading	Polarization		Antenna Factor	Field Strength (at 3m)		FCC Limit
MHz	dB(μ V)	H	V	dB	dB(μ V/m)	μ V/m	μ V/m
54.3	23.7	V	+	13.2	36.9	70.0	100
81.4	16.6	V	+	9.3	25.9	19.7	100
108.6	9.0	V	+	12.6	21.6	12.0	150
135.7	<1.0		+	11.2	<12.2	<4.1	150
162.9	<1.0		+	9.8	<10.8	<3.5	150
190.0	<1.0		+	11.5	<12.5	<4.2	150
217.2	<1.0		+	12.6	<13.6	<4.8	200
244.3	<1.0		+	13.9	<14.9	<5.6	200
271.5	<1.0		+	16.5	<17.5	<7.5	200
298.6	<1.0		+	17.1	<18.1	<8.0	200
325.7	<1.0		+	17.1	<18.1	<8.0	200
352.9	<1.0		+	17.3	<18.3	<8.2	200
380.0	<1.0		+	18.0	<19.0	<8.9	200
407.2	<1.0		+	18.8	<19.8	<9.7	200
434.3	<1.0		+	19.5	<20.5	<10.6	200
461.5	<1.0		+	20.1	<21.1	<11.4	200
488.6	<1.0		+	20.3	<21.3	<11.6	200
515.8	<1.0		+	20.9	<21.9	<12.5	200
542.9	<1.0		+	22.1	<23.1	<14.3	200
570.0	<1.0		+	22.8	<23.8	<15.5	200
597.2	<1.0		+	23.3	<24.3	<16.4	200
624.3	<1.0		+	23.4	<24.4	<16.6	200
651.5	<1.0		+	23.6	<24.6	<17.0	200
678.6	<1.0		+	24.9	<25.9	<19.7	200
705.8	<1.0		+	25.1	<26.1	<20.2	200
732.9	<1.0		+	25.4	<26.4	<20.9	200
760.1	<1.0		+	26.4	<27.4	<23.4	200
787.2	<1.0		+	26.8	<27.8	<24.5	200
814.4	<1.0		+	26.7	<27.7	<24.3	200

... to be continued



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14

TEST REPORT

Page 5 of 7

No.: KM0024/504

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference .. Continued ..

TEST REFERENCE: FCC Rules Part 15 Section 15.227 (26.96-27.28 MHz)

TEST CONDITION : Normal

TEST DATE : 1998.05.12

The out-of-band emissions, including harmonics (25-1000 MHz)

(CISPR VALUE)

Emission Frequency	Meter Reading	Polarization	Antenna Factor	Field Strength (at 3m)	FCC Limit
MHz	dB(μ V)	H-V	dB	dB(μ V/m)	μ V/m
841.5	< 1.0	+	26.1	<27.1	<22.6
868.6	< 1.0	+	26.8	<27.8	<24.5
895.8	< 1.0	+	27.1	<28.1	<25.4
922.9	< 1.0	+	27.5	<28.5	<26.6
950.1	< 1.0	+	28.1	<29.1	<28.5
977.2	< 1.0	+	28.2	<29.2	<28.8
999.5	< 1.0	+	28.5	<29.5	<29.9

=====SUMMARY=====
data is within limits

=====
Broad-band Antennas were used both polarizations of emissions were measured.
polarizations at highest reading indicated as:

H -- Horizontal V -- Vertical



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14

No.: KM0024/504

TEST REPORT

Page 6 of 7

*** INTENTIONAL RADIATOR ***

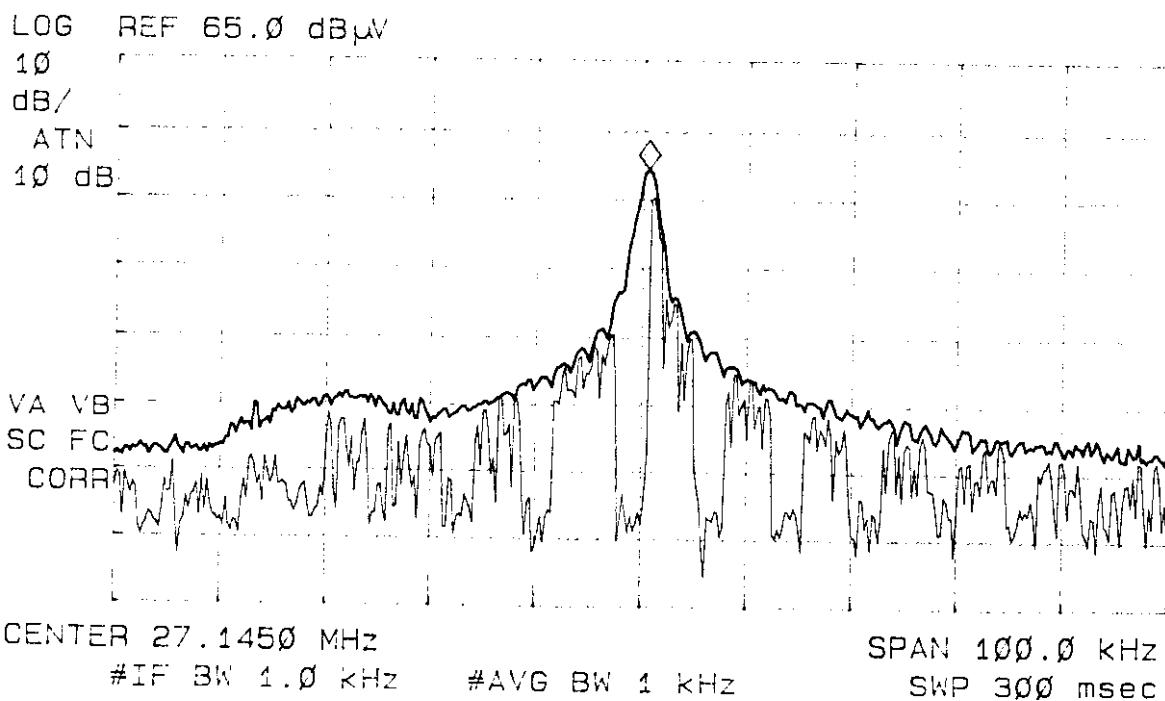
(2) Measurement of Emissions Within Band Edges.

=====

TEST REFERENCE: FCC Rules Part 15 section 15.227(26.96-27.28 MHz)

TEST CONDITION: Normal

TEST DATE : 1998.05.12



RESULTS AND NOTES

- L: FCC Lower Band Edge.....> 26.960MHz
- H: FCC Higher Band Edge.....> 27.280MHz
- C: Unmodulated carrier at frequency.....> 27.146Hz
- D: No. of dB from unmodulated carrier.....> 48.98dB

SPECTRUM ANALYZER SETTINGS

Resolution bandwidth : 1.0KHz
Frequency span : 10.0KHz/div
No. of dB/div : 10.0dB/div

FCC Limit

Minimum No. of dB from unmodulated carrier required : 26.0dB

===== SUMMARY =====

All data is within limits

===== ===== ===== =====



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14

TEST REPORT

Page 6 of 7

No.: KM0024/504

*** INTENTIONAL RADIATOR ***

(2) Measurement of Emissions Within Band Edges.

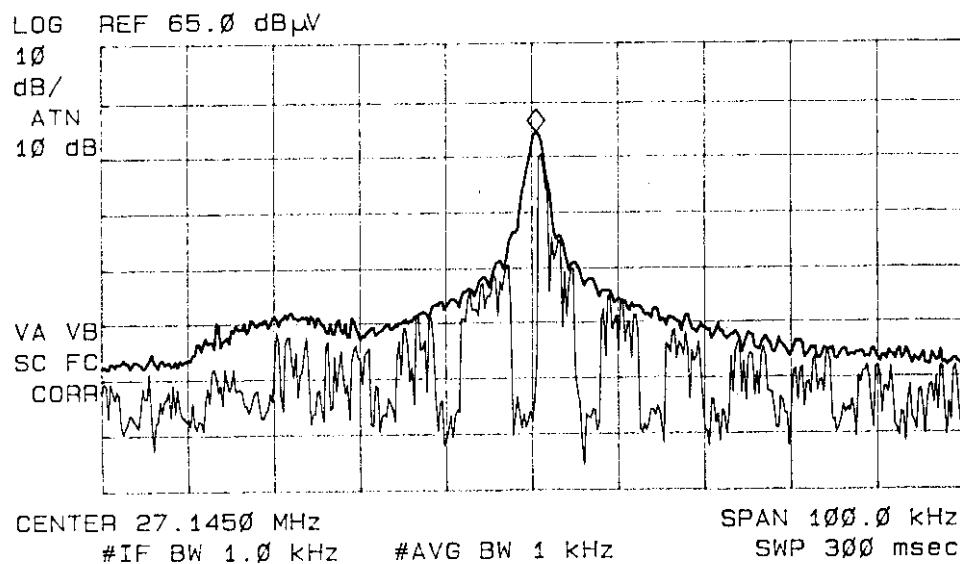
TEST REFERENCE: FCC Rules Part 15 section 15.227(26.96-27.28 MHz)

TEST CONDITION: Normal

TEST DATE : 1998.05.12

CENTER
27.1450 MHz
STEP 27.1450 MHz

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 27.1455 MHz
48.98 dB μ V



RESULTS AND NOTES

- L: FCC Lower Band Edge.....-> 26.960MHz
- H: FCC Higher Band Edge.....-> 27.280MHz
- C: Unmodulated carrier at frequency.....-> 27.146MHz
- D: No. of dB from unmodulated carrier.....-> 48.98dB

SPECTRUM ANALYZER SETTINGS

Resolution bandwidth : 1.0KHz
Frequency span : 10.0KHz/div
No. of dB/div : 10.0dB/div

FCC Limit

Minimum No. of dB from unmodulated carrier required : 26.0dB

===== SUMMARY =====
All data is within limits
=====



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14

No.: KM0024/504

TEST REPORT

Page 7 of 7

NOTES FOR THE RADIATION MEASUREMENT

(1) Test site facility:

Open field test site located at Taipo (Hong Kong) with a metal ground plane on filed with the FCC pursuant to section 2.948 of the FCC Rules.

(2) Distance between the EUT and measuring antenna:

3 meters.

(3) Measuring instrumentations:

CISPR Quasi-peak type field strength meter (25 MHz - 1000 MHz). 6 dB bandwidth set at 120KHz. Also, peak level of the fundamental emissions was measured in order to determine compliance with the 20dB peak to average limit specified in Section 15.35(b) of the FCC new Rules.

(4) Measuring antenna:

Broad band antenna for the frequency range 25-1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable. included in the Antenna Factor for measurement data. The antenna are capable of measuring both horizontal and vertical polarizations.

(5) Frequency range scanned:

The frequency range from 25 MHz to 1000 MHz had been searched. Readings of the highest emissions relating to the limit were reported as above.

(6) Arrangement of EUT:

During the test, the sample was operated at rated supply voltage and arranged for maximum emissions.

(7) Measuring Procedure:

In accordance with the relevant clauses of the FCC Rules Part 15 section 15.227.

(8) Measuring Uncertainty:

The calculated uncertainty for measurement performed at 3M test distance are:-
30MHz to 200MHz = \pm 3.7dB, 200MHz to 1000MHz = + 3.0dB/-2.7dB.

Remark: Purpose of this test is to provide the Applicant with the necessary test data of their device for the submission to FCC with application for Equipment Authorization under FCC's Equipment Authorization Program. This test itself is not an Approval Test.

*****End of Document*****



The Hong Kong Standards and Testing Centre Ltd.

Date: 1998-05-14

No.: KM0024/504

APPENDIX A

Page A1 of A1

TEST EQUIPMENT AUDIT

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	H P	HP85660B	3144A21192	TBD
EM008	SPECTRUM ANALYZER DISPLAY	H P	HP85662A	3144A20514	TBD
EM009	QUASI PEAK ADAPTOR	H P	HP85650A	3303A01702	TBD
EM010	RF PRESELECTOR	H P	HP85685A	3221A01410	TBD
EM011	ATTENUATOR/SWITCH	H P	HP11713A	2508A10595	TBD
EM012	PRE-AMPLIFIER	H P	HP8449B	3008A00262	TBD
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	H P H P H P	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	CM
EM017	ANTENNA	ARA INC.	LPB-2513/A	1069	31/12/97
EM072	SIGNAL GENERATOR	HP	8640B	1948A11892	30/03/98
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	16/02/98

ABBREVIATIONS:

CM = Corrective Maintenance

N/A = Not Applicable

TBD = To be determined