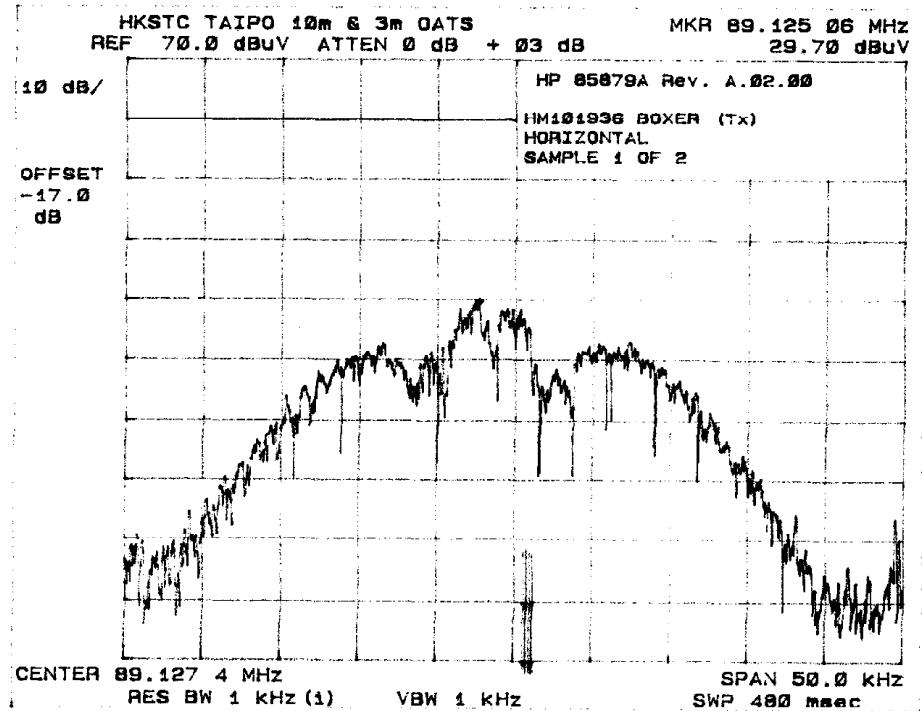


FCC ID: KT6B-7007



Date: 2000-12-11
No.: HM101936

TEST REPORT

Page 1 of 7

APPLICANT: (CODE:BOT005)
BOXER TOYS COMPANY LIMITED.
Unit 10, 4/F., Sun Cheong Ind. Bldg., 1 Cheung Shun St., Cheung Sha Wan, Kowloon., Hong Kong.

DATE OF SAMPLE(S) RECEIVED: 1999-12-21

SUBMITTED SAMPLE(S): 2 samples per model

DATE OF TESTING: 200012-02

DESCRIPTION OF SAMPLE(S):

A sample of product said to be:

Product: FM SING-A-LONG WIRELESS MICROPHONE
Manufacturer: ARAMIBARA ELECTRONICS FACTORY
Model Number: B7007
Brand Name: FM SING-A-LONG WIRELESS MICROPHONE
Rating: 3V d.c. ("AA" size battery × 2)
Origin: 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 clause 15.239 of Federal Communications Commission Rules and Regulations Part 15.

TEST EQUIPMENT AUDIT: Please see Appendix A

Law Man Kit
Testing Engineer

Steven Tsang
Verify by

Patrick Wong
Patrick Wong
for Managing Director

Date: 2000-12-11
No.: HM101936

TEST REPORT

Page 2 of 7

TEST SUMMARY

*** INTENTIONAL RADIATOR ***

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

TEST DATA

Please refer to the attached result sheets.

Date: 2000-12-11

TEST REPORT

Page 3 of 7

No.: HM101936

*** INTENTIONAL RADIATOR ***

(1) Measurement of Radiated Interference

TEST REFERENCE : FCC Rules Part 15 Subpart Section 15.239(88.00-108.00MHz)

TEST CONDITION : Normal

TEST DATE : 2000-12-02

Emission of RF energy on the carrier frequency -- 89.125 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
89.1	31.8	H	+	13.3	45.1
					179.9
					2500.0

Emission of RF energy on the carrier frequency -- 89.125 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
89.1	30.4	H	+	13.3	43.7
					153.1
					250.0

... to be continued

Date: 2000-12-11

TEST REPORT

Page 4 of 7

No.: HM101936

**** INTENTIONAL RADIATOR ****

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

TEST REFERENCE : FCC Rules Part 15 Section 15.239 (88.00-108.00MHz)
TEST CONDITION : Normal
TEST DATE : 2000-12-02

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

Emission Frequency MHz	Meter Reading dB(µV)	Polarization H-V	Antenna Factor dB	Field Strength (at 3m)		FCC Limit µV/m
				dB(µV/m)	µV/m	
178.3	24.1	H	+	13.7	37.8	77.6
267.4	18.4	H	+	20.0	38.4	83.2
356.5	< 1.0		+	20.5	< 21.5	< 11.9
445.6	< 1.0		+	24.2	< 25.2	< 18.2
534.8	< 1.0		+	24.3	< 25.3	< 18.4
623.9	< 1.0		+	26.9	< 27.9	< 24.8
713.0	< 1.0		+	27.3	< 28.3	< 26.0
802.1	< 1.0		+	27.5	< 28.5	< 26.6
891.3	< 1.0		+	27.8	< 28.8	< 27.5

=====SUMMARY=====

All 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

Date: 2000-12-11

TEST REPORT

Page 5 of 7

No.: HM101936

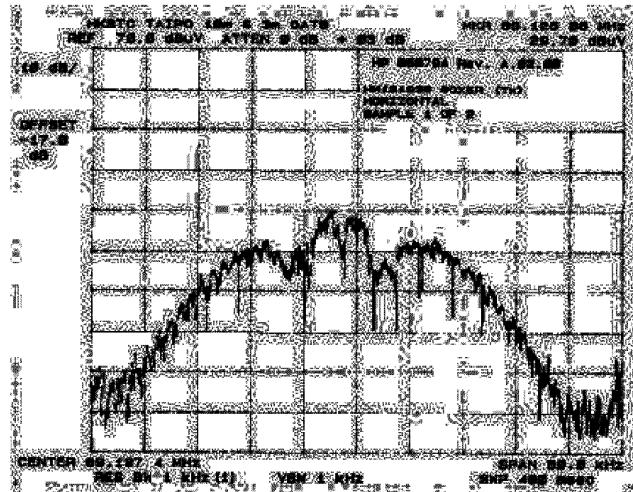
*** INTENTIONAL RADIATOR ***

(2) Measurement of Emissions Within Band Edges

TEST REFERENCE: FCC Rules Part 15 section 15.239(88.00-108.00 MHz)

TEST CONDITION: Normal

TEST DATE : 2000-12-02



RESULTS AND NOTES

The bandwidth of the emission shall be no wider than 200kHz of the center frequency for devices operating within 88.00MHz to 108.00MHz. The bandwidth is determined at the points 26dB down from the modulated carrier.

L: FCC Lower Band Edge-> 88.000MHz

H: FCC Higher Band Edge-> 108.000MHz

C: Unmodulated carrier at frequency-> 89.125MHz

D: No. of dB from unmodulated carrier-> 29.70dB

SPECTRUM ANALYZER SETTINGS

Resolution bandwidth : 34.5KHz

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

=====

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 emssions 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 15.239.
- (8) Measuring Uncertainty:
The calculated uncertainty for measurement performed at 3M test distance are:-
30MHz to 300MHz = $\pm 3.7\text{dB}$, 300MHz to 1000MHz = $+ 3.0\text{dB}/-2.7\text{dB}$.

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 ***

Date: 2000-12-11

TEST REPORT

Page 7 of 7

No.: HM101936

TEST EQUIPMENT AUDIT

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL.
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	18/07/00
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	18/07/00
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	18/07/00
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	18/07/00
EM011	ATTENUATOR/SWITCH	HEWLETT PACKARD	HPI1713A	2508A10595	18/07/00
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	18/07/00
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	CM
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	10/07/00
EM017	ANTENNA	ARA INC.	LPB-2513/A	1069	17/02/00
EM020	HORN ANTENNA	EMCO	3115	4032	09/08/00
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A111892	30/03/98
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	15/01/00
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	31/05/00

Remarks:-

CM Corrective Maintenance
N/A Not Applicable or Not Available
TBD To Be Determined