Hasbro Far East Ltd.

Application
For
Permissive Change
Two Way Radio with FRS and Messaging

(FCC ID: RS4HB001)

July 6, 2005

0513560
TL/ Ann Choy
July 6, 2005

- The test results reported in this report shall refer only to the sample actually tested and shall not refer or be deemed a refer to bulk from which such a sample may be said to have been obtained.
- This report shall not be reproduced except in full without prior authorization from Intertek Testing Services Hong Kong Limited
- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

Intertek Testing Services Hong Kong Ltd.
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
Tel: (852) 2173 8888 Fax: (852) 2371 0521 Website: www.hk.intertek-etlsemko.com

SUMMARY OF CONTENTS

LIST OF EXHIBITS

MEASUREMENT/TECHNICAL REPORT

Application : Hasbro Far East Ltd.
Trade Name/Model No : Hasbro/ 75070 (Chat Now single pack - Slide)
Hasbro/ 75028 (Chat Now Communicator 2pk Assortment)
Hasbro/ 72970 (Chat Now Communicator single pk Assortment)
Hasbro/ 74849 (Chat Now 2pk - Slide)
Date : July 6, 2005

This report concerns (check one:)Original Grant_____ Class II Change X

Equipment Type: FRF – Part 95 Family Radio Face Held Transmitter

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes_____ No X

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Report prepared by:

Tommy Leung
Intertek Testing Services
2/F., Garment Centre,
576 Castle Peak Road,
Kowloon, Hong Kong.
Phone: 852-2173-8536
Fax: 852-2741-1693

Table of Contents

List of attached file

Exhibit type	File Description	Filename
Cover Page	Confidentiality Request	request.pdf
Cover Page	Purpose of Application	purpose of change.pdf
Test Report	Spurious Emission	spurious.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	config photos.doc
Internal Photo	Internal Photo	internal photos.doc
External Photo	External Photo	external photos.doc
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Test Report	Part List	partlist.pdf

EXHIBIT 1

GENERAL DESCRIPTION

1.0 General Description

1.1 Product Description

The Equipment Under Test (EUT) is a Two Way Radio with FRS operating between 462.5625MHz and 467.7125MHz. The EUT can conduct two-way voice communication with another person on the same channel (1-14). Also, the EUT can send a brief text message to another specific person on the pre-set channel. The EUT is powered by 6V (4 x "AAA" size 1.5V alkaline batteries).

Transmitter Portion

(i)	Type of Emission	: FRS - 10K5F3E, 5K50F2D
(ii)	Frequency Range	: FRS - 462.5625MHz to 462.7125MHz (7 Channels) FRS - 467.5625MHz to 467.7125MHz (7 Channels)
(iii)	Maximum Power Rating	: FRS (Channel 1-7) - 0.08W ERP FRS (Channel 8-14) - 0.06W ERP
(iv)	Antenna Type	: Integral

The slide type communicator in the Model: Hasbro 75028 (Chat Now Communicator 2pk Assortment), Hasbro 72970 (Chat Now Communicator single pk Assortment), and the Model: Hasbro 74849 (Chat Now 2pk - Slide) are same as the Model: Hasbro 75070 (Chat Now single pack - Slide) in hardware aspect. The model numbers are difference in package. The model numbers are identical in electrical, mechanical, and physical design. The difference in model number serves as marketing strategy.

1.2 Purpose of Application

The purpose of application is saved with filename: purpose of change.pdf.

As the RF module remained unchanged, only the spurious emission results were included in this report.

1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.4 (2001) and ANSI/TIA-603-B-2002. All measurement were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. For each scan, the procedure of maximizing emissions in Appendices D and E were followed. All Radiated tests were performed at an antenna the EUT distance of 3 meters, unless stated otherwise in the **"Justification Section"** of this Application.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the emission data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. The test facility and site measurement data have been fully placed on file with the FCC.

EXHIBIT 2

SYSTEM TEST CONFIGURATION

2.0 System Test Configuration

2.1 Justification

The device was configured for testing in a typical fashion (as a customer would normally use it). The device was placed on a turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes. When the radiated emissions are measured.

The device was powered by 4 new "AAA" size 1.5V alkaline batteries.

The frequency range from 30 MHz to 4.69 GHz was searched for spurious emissions from the device. Only those emissions reported were detected. All other emissions were at least 20 dB below the applicable limits.

2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered on, a signal is transmitted.

2.3 Special Accessories

No special accessory is needed for compliance of this device.

2.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

2.5 Equipment Modification

Any modification installed previous to testing by Hasbro Far East Ltd. will be incorporated in each production model sold/leased in the United States.

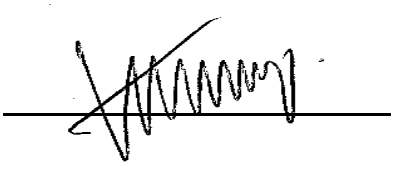
No modification were installed by Intertek Testing Services.

2.6 Support Equipment

A headset with 1.2m unshielded cable. (Supplied by Client)

Confirmed by:

Tommy Leung
Assistant Manager
Intertek Testing Services
Agent for Hasbro Far East Ltd.



Signature

July 6, 2005 Date

EXHIBIT 3

SPURIOUS EMISSION

3.0 **Spurious Emission (Section 95.635)**

In order to satisfy the 95.635 requirement, the spurious emission from the EUT are measured and shown in the Exhibit 3.1.

3.1 Field Strength of Spurious Radiation (Section 95.635)

A. Test Equipment

Equipment	Brand Name	Model No.
Antenna	EMCO	A100, 3148, 3104C, 3115
Spectrum Analyzer	ADVANTEST	R3271
Test receiver	Rohde & Schwarz	ESVS30
RF Filter	Trilithic	3VF500/1000-5-50-CC

B. Testing Procedure

Radiated emission measurements were performed according to the procedures in ANSI C63.4(2001). All measurements were performed in Open Area Test Sites located at Roof Top of Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.

C. Radiated Emission Configuration Photograph

Worst Case Radiated Emission

For electronic filing, the radiated emission configurations photograph is saved with filename: config photos.doc

C. Test Result

Hasbro Far East Ltd.
Hasbro/ 75070 (Chat Now single pack - Slide)

Table 1(a)

1) Unwanted emission from CARRIER ±6.25kHz to CARRIER ±31.25kHz

(Refer to the plots which is saved with filename: spurious.pdf)

Region	Unwanted emission	
	Channel 4	Channel 11
CARRIER ±6.25kHz to ±12.5kHz	<25dB	<25dB
CARRIER ±12.5kHz to ±31.25kHz	<35dB	<35dB

Table 1(b): Channel 4

Frequency (MHz)	Effective Radiated Power (dBm)	Transmission Power (dBm)	Attenuation (dBc)	Limit (dB)	Margin (dB)
925.275	-31.7	18.9	50.6	31.9	-18.7
1387.913	-24.8	18.9	43.7	31.9	-11.8
1850.550	-31.1	18.9	50.0	31.9	-18.1
2313.188	-31.2	18.9	50.1	31.9	-18.2
2775.825	-32.0	18.9	50.9	31.9	-19.0
3238.463	-37.6	18.9	56.5	31.9	-24.6
3701.100	-42.3	18.9	61.2	31.9	-29.3
4163.738	-44.2	18.9	63.1	31.9	-31.2
4626.375	-44.0	18.9	62.9	31.9	-31.0

Remark: 1. Transmission power is 18.9 dBm or -11.1 dB(W).

2. According to Section 95.635(b7), the unwanted emission should be attenuated below TP by at least $43 + 10 \log_{10}$ (TP) dB or 31.9 dB.

3. The test is performed according to ANSI/TIA-603-B-2002.

Test Engineer: Kenneth C. C. Lam Date of Test: June 23-28, 2005

Table 1(b): Channel 11

Frequency (MHz)	Effective Radiated Power (dBm)	Transmission Power (dBm)	Attenuation (dBc)	Limit (dB)	Margin (dB)
935.275	-30.0	17.9	47.9	30.9	-17.0
1402.912	-26.1	17.9	44.0	30.9	-13.1
1870.549	-32.3	17.9	50.2	30.9	-19.3
2338.186	-27.8	17.9	45.7	30.9	-14.8
2805.824	-28.0	17.9	45.9	30.9	-15.0
3273.461	-36.4	17.9	54.3	30.9	-23.4
3741.098	-43.4	17.9	61.3	30.9	-30.4
4208.736	-44.3	17.9	62.2	30.9	-31.3
4676.373	-43.5	17.9	61.4	30.9	-30.5

Remark: 1. Transmission power is 17.9 dBm or -12.1 dB(W).

2. According to Section 95.635(b7), the unwanted emission should be attenuated below TP by at least $43 + 10 \log_{10}$ (TP) dB or 30.9 dB.

3. The test is performed according to ANSI/TIA-603-B-2002.

Test Engineer: Kenneth C. C. Lam Date of Test: June 23-28, 2005

EXHIBIT 4

TECHNICAL SPECIFICATIONS

4.0 **Technical Specifications**

4.1 Block Diagram

For electronic filing, the block diagram of the transceiver is saved with filename: block.pdf

Figure 4.1 Block Diagram

4.2 Schematic Diagram

For electronic filing, the schematic diagram of the transceiver is saved with filename: circuit.pdf

Figure 4.2 Schematic Diagram

EXHIBIT 5

PRODUCT LABELLING

5.0 **Product Labelling**

5.1 Label Artwork & Location

Figure 5.1 Label Artwork & Location

An engineering drawing of the label which will be permanently affixed to the unit. For electronic filing, the label artwork & location are saved with filename: label.pdf

EXHIBIT 6

PHOTOGRAPHS

6.0 Equipment Photographs

For electronic filing, photographs of the tested EUT are saved with filename: external photos.doc and internal photos.doc

EXHIBIT 7

INSTRUCTION MANUAL

7.0 **Instruction Manual**

This manual will be provided to the end-user with each unit sold/leased in the United States.

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf

EXHIBIT 8

PART LIST

8.0 **Part List**

For electronic filing, a preliminary copy of the Part List is saved with filename: partlist.pdf

EXHIBIT 9

RF EXPOSURE INFO

9.0 **RF Exposure Info**

The RF Safety Information is shown on P.1 of User Manual.

EXHIBIT 10

CONFIDENTIALITY REQUEST

10.0 **Confidentiality Request**

For electronic filing, a confidentiality request of the Instruction Manual is saved with filename: request.pdf