

TEST REPORT

To:	IMC TOYS HONG KONG LTD.		To:	-	
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Folder No.:	BVC	CK10JL	J121MTHS-B		
Factory name:					
Location:					
Product:	BRAZO		COM TOY STORY L: 140028		
100		蹇	Sample No:	(5210)147-0487	
			Test date:	June 8, 2010 To June 10, 2010	
			Test Requested:	FCC Part 15 - 2008	
			Test Method:	ANSI C63.4 - 2003	
			FCC ID:	RCPIMC1400280010	
The results o	given in this report are related to the tes	sted sp	ecimen of the des	cribed electrical apparatus.	
CONCLUSION:	The submitted sample was found to CC	MPLY	with requirement	of FCC Part 15 Subpart C.	
	Authorized	Signati	ure:		
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Reviewed by: k	Reviewed by: Keith Yeung Approved by: Steven Tsang				
Date: June 28, 2010 Date: June 28, 2010					

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com

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Page 1 of 12



Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2003. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

List of measuring equipment

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	24-AUG-2010
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	30-MAY-2011
OPEN AREA TEST SITE	BVCPS	N/A	N/A	03-JULY-2010
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	07-JULY-2010
COAXIAL CABLE	SUHNER	N/A	N/A	26-OCT-2010
SPECTRUM ANALYZER	ADVANTEST	R3127	111000909	17-DEC-2010

Remarks:-

N/A: Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result



Equipment Under Test [EUT]

Description of Sample:

Model Name: BRAZO INTERCOM TOY STORY

Model Number: 140028

Additional Model Number: 140028TS / 140028TS3

Additional Model information: Declare the Circuit, PCB layout and Electrical parts of the

products are identical to the basic model. Except the model

number.

Rating: 9Vd.c ("6F22" size battery x 1)

Description of EUT Operation:

The Equipment Under Test (EUT) is an IMC TOYS HONG KONG LTD. of Walkie-Talkie set. It is a 2 buttons and 1 knob transceiver and operating at 49.86MHz. The EUT continues to transmit when button is being pressed, Modulation by transistor, and type is amplitude modulation.

The transmitter has different control:

- 1. Yellow triangle button transmitter/receiver selection control
- 2. Green triangle button LED on & off control
- 3. Knob on & off control, volume control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 24.0cm metal antenna. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirement of S15.203 are met. There are no deviations or exceptions to the specifications.



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Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.235

Test Method:

ANSI C63.4

Test Date(s):

Temperature:

26.0 °C

Humidity:

Atmospheric Pressure:

101.6 kPa

Mode of Operation: Transmission mode

Tested Voltage: 9Vd.c., ("6F22" size battery x 1)

Test Method:

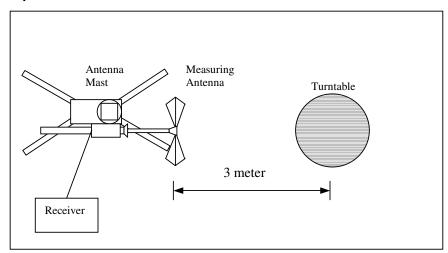
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup: Open Area Test Site



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:

Frequency Range of		Field Strength of	Field Strength of				
	Fundamental	Fundamental Emission	Fundamental Emission				
		[Peak]	[Average]				
	[MHz]	[μV/m]	[μV/m]				
	49.82 – 49.90	100,000 (100 dBμV/m)	10,000 (80 dBμV/m)				

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.86	V	9.7	59.2	100	-40.8

Detection mode: Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB _µ V/m)	Limit at 3m (dBμV/m)	Margin (dB)
49.86	V	9.7	55.4	80	-24.6

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz

VBW = 300KHz



Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method:

Test Date(s):

Temperature:

Humidity:

ANSI C63.4

2010-06-08

26.0 °C

65.0 %

Atmospheric Pressure:

101.6 kPa

Mode of Operation: Transmission & Receiver mode Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits
[MHz]	[μV/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	500

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
99.72	Н	10.8	26.4	43.5	-17.1
149.58	V	10.9	29.2	43.5	-14.3
199.44	V	11.7	27.4	43.5	-16.1
249.30	V	13.9	28.3	46.0	-17.7
299.16	Н	15.1	26.8	46.0	-19.2
349.02	Н	16.9	30.1	46.0	-15.9
398.88	Н	18.2	28.8	46.0	-17.2
448.74	V	19.1	29.3	46.0	-16.7
498.60	V	20.0	30.8	46.0	-15.2
548.46	V	21.0	31.3	46.0	-14.7

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz

VBW = 120KHz

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Measurement Data

Test Result of (Receiver mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBµV/m)	Margin (dB)
47.04	Н	10.6	26.2	40.0	-13.8
94.08	V	9.9	20.5	43.5	-23.0
141.12	Н	10.9	24.2	43.5	-19.3
188.16	Н	11.2	21.9	43.5	-21.6
235.20	Н	13.1	23.4	46.0	-22.6
282.24	Н	14.6	24.5	46.0	-21.5

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz

VBW = 120KHz



26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.235

Test Method: ANSI C63.4:2003 (Section 13.1.7)

Test Date(s): 2010-06-10 26.0 °C Temperature: Humidity: 65.0 % Atmospheric Pressure: 101.6 kPa

Mode of Operation: Transmission mode

Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

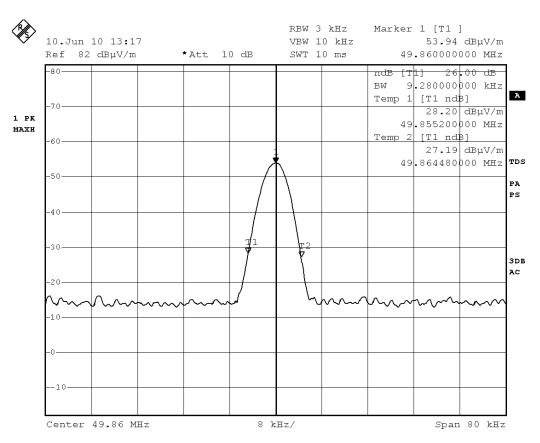
Limits for 26dB Bandwidth of Fundamental Emission:

Frequency	26dB Bandwidth	Limits					
[MHz]	[KHz]	[MHz]					
49.8600	9.28	within 49.82-49.90					



Measurement Data:

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 10.JUN.2010 13:17:17



Photographs of EUT

Front View of the product



Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View





Battery compartment



Battery Cover



Front View of the product (Internal)



Rear View of the product (Internal)



Antenna







***** End of Report *****