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FCC Test Report

Application No.: 58322

Applicant: CREATE TOYS FACTORY

Address: 1-2 Floor, No. 6 Building, Longtian Guanghua Industrial Park

Chengjiang Road, Chenghai District, Shantou City, Guangdong

China

Product Information:

Product Description: RC Boat

Model: CT307A, CT307B, 3352, 3362

Product Class: Low Power Communication Device – Transmitter (27 MHz)

FCC ID number: YEJSHENQIWEI-6

Requirement: CFR 47 FCC PART 15 SUBPART C, 2011

- Intentional Radiators.

Date of Receipt: Dec 24, 2012

Date of Test: Jan 07, 2013

Date of Issue: Jan 30, 2013

Test Result : PASS*

* In the configuration tested, the EUT complied with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

This report supersedes our previous report 58322B, issued on January 10, 2013, which is hereby deemed to be null and void

Authorized Signature:

LOKE Sai Kit, Wilson Senior Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of International Electrical Certification Centre Ltd. or testing done by International Electrical Certification Centre Ltd. in connection with, distribution or use of the product described in this report must be approved by International Electrical Certification Centre Ltd. in writing.

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Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART C: 2011	ANSI C63.4:2009	Class B	N/A ¹⁾
Radiated Emission below 30MHz	FCC PART 15, SUBPART C: 2011	ANSI C63.4:2009	Class B	PASS
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART C: 2011	ANSI C63.4:2009	Class B	PASS
Radiated Emission above 1 GHz	FCC PART 15, SUBPART B: 2011	ANSI C63.4:2009	Class B	N/A ¹⁾

Remark:

¹⁾ Please refer to section 6.1 & 6.4 of this report for explanation.



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4 General Information

4.1 General Description of EUT

EUT Name: RC Boat Model: 3352
Serial No.: --

4.2 Details of EUT

Power Supply: DC 9V (6F22 battery x1) for TX

Power Cord: --

Antenna type Integral extentable antenna

4.3 Conditions of EUT

The received sample was under good condition.

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, Oct 2011 ANSI C63.4:2009

4.6 Test Location

All tests were performed at: -

International Electrical Certification Centre Ltd. (wholly owned by SGS Group)
Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480.

No tests were sub-contracted.

4.7 Test Facility

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (FCC Registration No.: 97774).

The test facility is recognized, certified, or accredited by the following organizations:

FCC - CAB Registration No.: 446297

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

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4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None.

4.10 Declaration of Family Grouping

Item no.: CT307A, CT307B, 3352, 3362

According to the confirmation from the applicant, the above models are identical in all electrical aspects in relating to the circuit design, PCB layout, electrical components used, internal wiring and function. The differences are only the color and model name.

Therefore only the model 3352 was tested in this report.

4.11 Abbreviations

N/A: Not Applicable

EUT: Equipment Under Test



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5 Equipments Used during Test

Radiated Emission				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
3m Semi-Anechoic Chamber (pre-test)				
3m / 10m Open Aera Test Site			2012-02-24	2015-02-23
Test Receiver	Rohde & Schwarz	ESCS 30 / 100388	2012-11-19	2013-11-18
Spectrum Analyzer	Advantest	R3132 / 140101852	2012-08-16	2013-08-15
Antenna (30-1000 MHz)	Schaffner	CBL6111C / 2791	2012-10-11	2014-10-10
Loop Antenna	Rohde & Schwarz	HFH2-Z2 / 871336/48	2012-10-11	2014-10-10
Coaxial Cable		E167	2012-08-01	2013-07-31
Antenna Mast System	Schwarzbeck	AM9104 / -		
Turntable with Controller	Drehtisch	DT312 / -		

General Use Equipment						
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date		
Digital Multimeter	Fluke	189 / 83640020	2012-05-17	2013-05-16		
Temperature / Humidity		E160	2012-10-15	2013-10-14		

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6 Test Results

6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 Subpart C Section 15.207

Test Method: ANSI C63.4
Test Date: Not Applicable

Remark:

The product is battery operated and this test is not applicable.

6.2 Radiated Emissions below 30MHz

Test Requirement: FCC Part15 Subpart C Section 15.227 and 15.209

Test Method: ANSI C63.4
Test Date: Jan 07, 2013
Frequency Range: 9kHz to 30MHz

Measurement Distance: 3 m

Detector: Peak for pre-scan

(200Hz resolution bandwidth for measurement between 9kHz – 150kHz) (9kHz resolution bandwidth for measurement between 150kHz – 30MHz)

Peak for final measurement within the operation band

Quasi-Peak for final measurement outside the operation banc

Limits:

(a) Measurement within operation band :

Average detector : $10000\mu V/m$ (or 80 dB($\mu V/m$)) at 3 m

Peak detector : 100 dB(μ V/m) at 3m

(b) Measurement outside operation band :

Frequency range	Field strength limits	Measurement distance
(MHz)	(μV/m)	(m)
0.009 to 0.490	2400/F(kHz)	300
0.490 to 1.705	24000/F(kHz)	30
1.705 to 30.0	30	30
Note: At transitional frequencies	the lower limit applies.	

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6.2.1 EUT Operation

Operating Environment:

Temperature: 25°C Humidity: 62% Atmospheric Pressure: 1005mbar

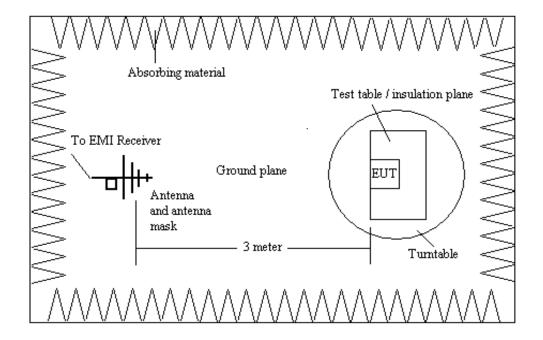
EUT Operation: Pre-test with Peak detector with the following mode(s):

1. Control for different directions / speed up

Final test with Peak detector with the following mode(s):

1. Control for moving forward

6.2.2 Test Setup and Procedure



- 1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
- 2. The EUT was operated with new batteries. The EUT was placed upon a non-metallic table 0.8m above the floor. If EUT is using extentable antenna, the antenna shall be fully extended for testing..
- 3. A loop antenna for the frequency range 9kHz 30MHz, connected with 10 meters coaxial cable to the test receiver was used for measurement. The center of the loop was 1 m above the floor, positioned with its plane vertical at the specified distance and rotated about its vertical axis and placed horizontal for maximum response at each azimuth about the EUT.

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- 4. An initial pre-scan was performed to find out the maximum emission level of the sample placed at 3 orthogonal planes and with the turntable rotated 360°. Final measurement was then performed to record the data for fundamental emission within the operation band and spurious emissions outside the band under worst-case condition for combination of the antenna orientation and turntable position.
- 5. Emission at the fundemental frequency for this pulse modulated device was measured with the peak detector function of the test receiver and was properly adjusted for the duty cycle correction factor as pulse desensitization to calculate the average emission value.

6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by loop antenna with 3 orthogonal polarities. Final measurement was conducted in the open area test site with data as follows:

(a) Measurement within operation band :

Frequency (MHz)	Antenna Polarity	Test Results (dBμV/m)		FCC Limit	FCC Limit (dBµV/m)	
		<u>Peak</u>	Average *	<u>Peak</u>	<u>Average</u>	
27.145	Horizontal	46.0	40.6	100	80	
	Vertical	67.0	61.6	100	80	

Note: (1) The above peak value is the maximum value of the measurement in the 3 orthogonal planes

(2) * Calculation for radiation (average) :

Formula:

Duty cycle = (N1L1 + N2L2 + ... + Nn-1Ln-1 + NnLn) / 100 or T

where

N1 is the number of type 1 pulse, L1 is length of type 1 pulse, etc.

T is the period of the pulse train (if less than 100ms)

According to the time domain plots shown on the next two pages :

The worst case duty cycle of the EUT = (2.02 + 17 x 0.52 + 7 x 1.00) / 33.30 = 0.536

Av correction factor = $20 \times \log(0.60) dB$ = -5.4 dB



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Radiation (average) = Radiation (peak) + Av correction factor

Radiation (average) of the EUT = 46.0 - 5.4 dB(μ V/m) = 40.6 dB(μ V/m) (Horizontal ant.)

= $67.0 - 5.4 \text{ dB}(\mu\text{V/m}) = 61.6 \text{ dB}(\mu\text{V/m})$ (Vertical ant.)

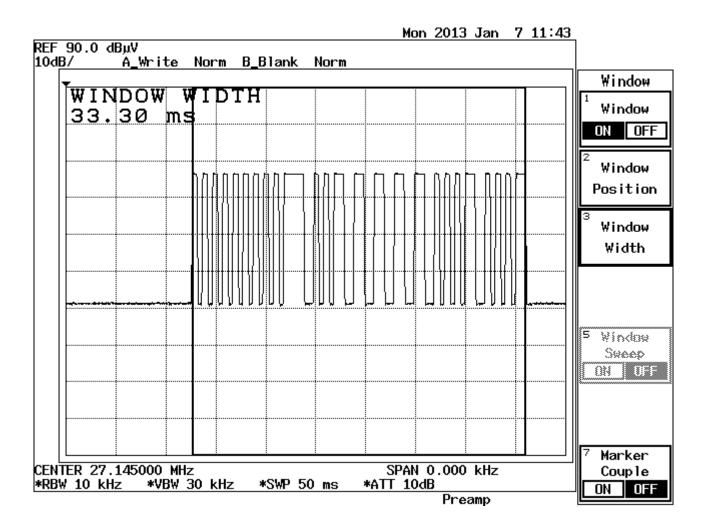


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(b) Measurement outside operation band :

The spurious radiated emissions measured by the loop antenna was negligible (more than 20dB below limit).

Time Domain Plots (Fundamental frequency of Transmitter):

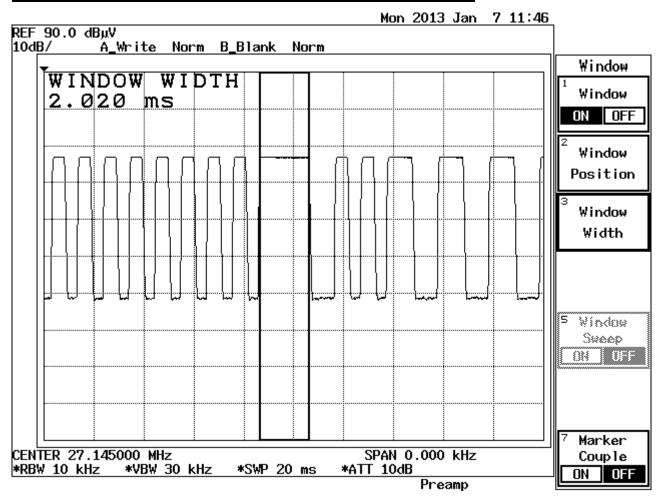


Pulse cycle period = 33.30 ms



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Time Domain Plots (Fundamental frequency of Transmitter):

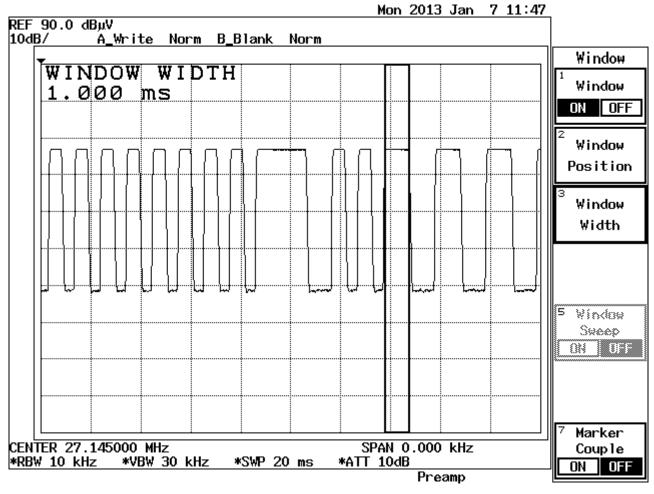


Pulse width = 2.02 ms (total no. of pulse : 1)



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Pulse width = 1.00 ms (total no. of pulse : 7)



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ON OFF

7 11:45 Mon 2013 Jan REF 90.0 dBμV 10dB/ Á_Write Norm B_Blank Norm Window WINDOW WIDTH Window 520.0 µs ON OFF Window Position Window Width Window Sweep ON BURE Marker SPAN 0.000 kHz CENTER 27.145000 MHz Couple

*ATT 10dB

Preamp

*SWP 20 ms

Pulse width = 0.52 ms (total no. of pulse : 17)

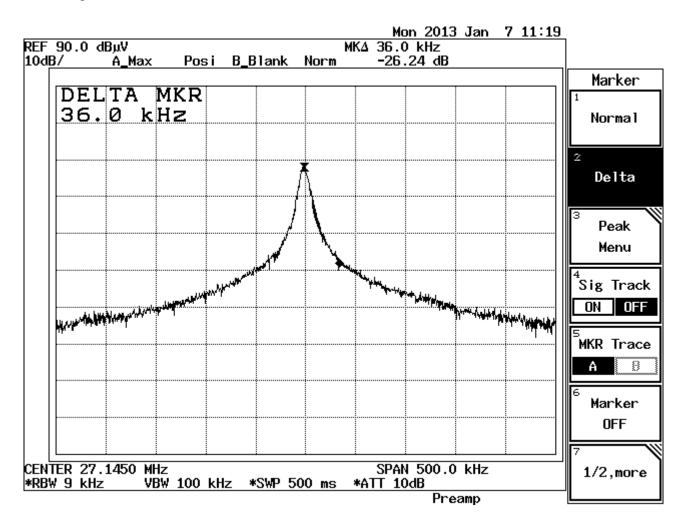
*RBW 10 kHz

*VBW 30 kHz



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Band Edges Plot:



The field strength of any emission within the operation band did not exceed 80 dB(μ V/m) for average value or 100 dB(μ V/m) for peak value.

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6.3 Radiated Emissions, 30MHz to1GHz

Test Requirement: FCC Part15 Subpart C Section 15.209

Test Method: ANSI C63.4 Test Date: Jan 07, 2013 30MHz to 1GHz Frequency Range:

Measurement Distance: 3m

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit

Class: Class B

Frequency range	Quasi-peak limits
MHz	dB (μV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54
Note: At transitional frequencies the lower limi	it applies.

6.3.1 EUT Operation

Operating Environment:

Temperature: 25°C Humidity: 62% Atmospheric Pressure: 1005mbar

EUT Operation: Pre-test with Peak detector with the following mode(s):

1. Control for turn left and right / moving forward and backward

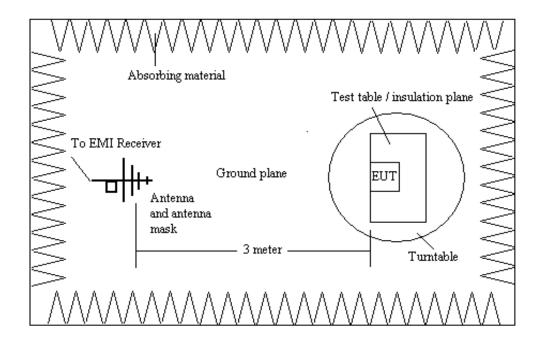
Final test with Peak detector with the following mode(s):

1. Control for moving forward



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6.3.2 Test Setup and Procedure



- 1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
- 2. The EUT was operated with new batteries. The EUT was placed upon a non-metallic table 0.8m above the floor. If EUT is using extentable antenna, the antenna shall be fully extended for testing.
- 3. Bilog antenna was used for the frequency range from 30MHz to 1GHz
- Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
- 5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

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6.3.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 6dB of the limit line. Final measurement was conducted in the open area test site with data as follows:

Test results on operation with Control for Moving Forward mode :

Frequency (MHz)	Antenna Polarization	Correction Factor (dB/m)	Receiver QP Reading (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)
54.290	V	11.0	14.8	25.8	40.0	-14.2
81.430	V	9.1	18.9	28.0	43.5	-15.5
108.580	V	10.7	9.3	20.0	43.5	-23.5
135.720	Н	11.7	6.7	18.4	43.5	-25.1
162.870	Н	11.0	9.0	20.0	43.5	-23.5
190.010	Н	9.3	10.5	19.8	43.5	-23.7

Note:

- 1) All readings are Quasi-Peak values.
- 2) Correction Factor = Antenna Factor + Cable Loss.
- 3) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively and with its antenna fully extended.



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6.4 Radiated Emissions above 1 GHz

Test Requirement: FCC Part15
Test Method: ANSI C63.4
Test Date: Not Applicable

Remark:

There is no need for Radiated Emissions (above 1G) test to be performed on this product in accordance with FCC Part 15: 2011 because the tenth harmonic of the highest fundamental frequency is less than 1 GHz.

For further details, please refer to Subpart A section 15.33 (a) (1)of FCC Part 15 which states:

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.



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7 Photographs

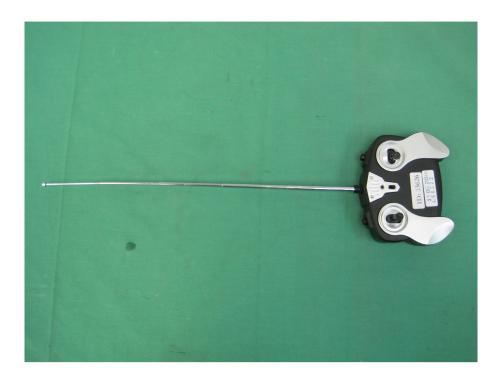
7.1 Radiatd Emission Test Setup

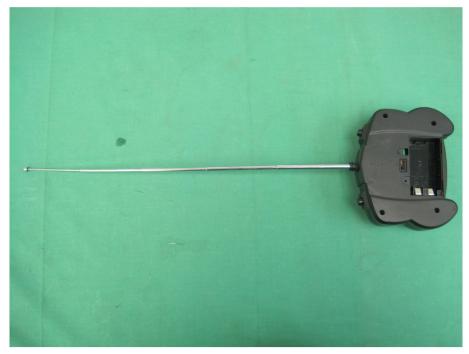




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7.2 EUT Constructional Details





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