FCC TEST REPORT

FCC ID NO. : QE871218RX49

Applicant : Interactive Toy Concepts Limited

7th Floor, Eu Yan Sang Tower, 11-15 Chatham Road South, Tsim Sha Tsui,

Hong Kong

Equipment Under Test (EUT):

Product Name : RC Helicopter

Model No. : 71218, 60-396, 6018742

Standards : FCC Part 15 SUBPART B

Date of Test : July 7, 2008

Test Engineer : Nunu.Deng

Reviewed By: The 2hous

PERPARED BY:

Waltek Services (Shenzhen) Co., Ltd.

1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, China.

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2 Test Summary

Test	est Test Requirement		Class / Severity	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2003	ANSI C63.4: 2003	Class B	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2003	ANSI C63.4: 2003	Class B	N/A

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4 General Information

4.1 Client Information

Applicant: Interactive Toy Concepts Limited

Address of Applicant: 7th Floor, Eu Yan Sang Tower, 11-15 Chatham Road South,

FCC ID: QE871218RX49

Tsim Sha Tsui, Hong Kong

Manufacturer: Interactive Toy Concepts Limited

Address of Manufacturer: 7th Floor, Eu Yan Sang Tower, 11-15 Chatham Road South,

Tsim Sha Tsui, Hong Kong

4.2 General Description of E.U.T.

Product Name: RC Helicopter

Model No.: 71218; 60-396; 6018742

4.3 Details of E.U.T.

Power Supply: RX: 3.7 VDC Battery

4.4 Description of Support Units

Compliance test was performed test in ON mode.

The customer requested FCC tests for a RC Helicopter.

The standard used was FCC Part 15.107 & Part15.109, SUBPART B, CLASS B

4.5 Test Facility

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

• FCC – Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581.June 24, 2008.

FCC ID: QE871218RX49

4.6 Test Location

All Emissions testswere performed at:-1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, China

5 Equipment Used during Test

Equipment	Brand Name	Model	Related standards	Cal.Intal	Last Cal.	Serial No	
3m Anechoic chamber							
EMC Analyzer	Agilent	E7405A	ISO9001:2000	12	Jan-08	MY4511494	
	8					3	
Trilog Broadband	SCHWARZB	VULB9163	EN/ISO/IEC	12	Jan-08	336	
Antenne 30-3000	ECK MESS-		17025 DIN				
MHz	ELEKTROM		EN ISO9001				
Broad-band Horn	SCHWARZB	BBHA 9120	EN/ISO/IEC	12	Jan-08	667	
Antenna	ECK MESS-	D	17025 DIN				
	ELEKTROM		EN ISO9001				
Broadband	SCHWARZB	BBV 9718	EN/ISO/IEC	12	Jan-08	9718-148	
Preamplifier	ECK MESS-		17025 DIN				
	ELEKTROM		EN ISO9001				
10m Coaxial Cable	SCHWARZB	AK 9515 H	EN/ISO/IEC	12	Jan-08	-	
with N-male	ECK MESS-		17025 DIN				
Connectors	ELEKTROM		EN ISO9001				
10m 50 Ohm Coaxial	SCHWARZB	AK 9513	EN/ISO/IEC	12	Jan-08	-	
Cable with N-	ECK MESS-		17025 DIN				
plug,individual	ELEKTROM		EN ISO9001				
length,usable up to							
3(5)GHz, Connectors							
Positioning Controller	C&C LAB	CC-C-IF	ISO9001	12	Jan-08	MF7802108	
Color Monitor	SUNSPO	SP-14C	ISO9001	12	Jan-08	-	
EMI Shielded Room							
Test Receiver	ROHDE&SC	ESPI	ISO9001	12	Jan-08	101155	
	HWARZ						
Two-Line	ROHDE&SC	ENV216	ISO9001	12	Jan-08	100115	
V-Network	HWARZ		EN/ISO/IEC				
			17025				
Absorbing Clamp	ROHDE&SC	MDS-21	ISO9001	12	Jan-08	100205	
	HWARZ		EN/ISO/IEC				
			17025				

ECC 1	m. /	OE07101	1003740
FUU I	י געו	QE87121	18KA49

10m 50 Ohm Coaxial	SCHWARZB	AK 9514	EN/ISO/IEC	12	Jan-08	-
Cable with N-	ECK MESS-		17025 DIN			
plug,individual	ELEKTROM		EN ISO9001			
length,usable up to						
3(5)GHz, Connectors						

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5.1 Conduction Emissions, 0.15MHz to 30MHz

Test Requirement: FCC Part 15.107

Test Method: ANSI C63.4: 2003

Test Date:

Frequency Range: 150kHz to 30MHz

Class/Severity: B

Limit: $66-56 \text{ dB}\mu\text{V/m}$ between 0.15MHz & 0.5MHz

 $56 \text{ dB}\mu\text{V/m}$ between 0.5MHz & 5MHz $60 \text{ dB}\mu\text{V/m}$ between 5MHz & 30MHz

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak & Average if maximised peak within 6dB of Average

Limit

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1012 mbar

EUT Operation:

Compliance test was performed test in ON mode.

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

5.1.2 Measurement Data

Owing to the DC operation of EUT, this test is not performed.

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5.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part 15.109

Test Method: ANSI C63.4: 2003

Test Date: July 7, 2008

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Class: Class B

Limit: 40.0 dBµV/m between 30MHz & 88MHz

 $43.5 \text{ dB}\mu\text{V/m}$ between 88MHz & 216MHz

46.0 dBµV/m between 216MHz & 960MHz

 $54.0 dB\mu V/m$ zbove 960MHz

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

Quasi-Peak if maximised peak within 6dB of limit

5.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1012 mbar

EUT Operation:

Compliance test was performed test in ON mode.

5.2.2 EUT Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003, The specification used in this report was the FCC Part 15.109 Class B limits.

5.2.3 Spectrum Analyzer Setup

According to FCC Part 15.109 Class B Rules, the system was tested to 1000 MHz.

Start Frequency	.30 MHz
Stop Frequency	.1000 MHz
Sweep Speed Auto	
IF Bandwidth	.1 MHz
Video Bandwidth	.1 MHz
Quasi-Peak Adapter Bandwidth	.120 kHz
Quasi-Peak Adapter Mode	.Normal
Resolution Bandwidth	.1MHz

5.2.4 Test procedure

For the radiated emissions test, since the EUT does have not a power source, there was no connection to AC outlets.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.

All data was recorded in the peak and average detection mode.

The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.

ANSI STANDARD C63.4-2003 12.1.1.1 SUPERREGENERATIVE RECEIVER: A signal Generator was set to the unit under test operating frequency. An un- Modulated continuous wave (CW) signal was radiated at the super-regenerative receiver operating frequency to cohere the characteristic broadband emissions from the receiver.

5.2.5 Summary of Test Results

According to the data in section 5.2.6, the EUT <u>complied with the FCC Part 15.109 Class B</u> standards.

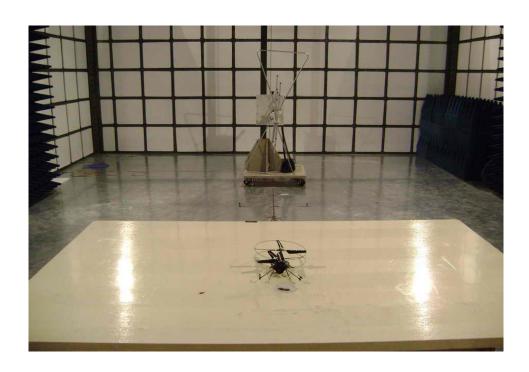
The test results: PASS.

5.2.6 Radiatied Emissions Test Data

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)	FCC 15 Subpart B Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
406.7	Horizontal	41.96	46.0	4.04	1.2	150
433.3	Horizontal	41.25	46.0	4.75	1.5	60
478.6	Horizontal	42.78	46.0	3.22	1.8	200
431.8	Vertical	40.38	46.0	5.62	1.5	60
453.6	Vertical	41.48	46.0	4.52	1.5	90
483.7	Vertical	35.91	46.0	10.09	1.5	120

5.3 Photographs - Test Setup

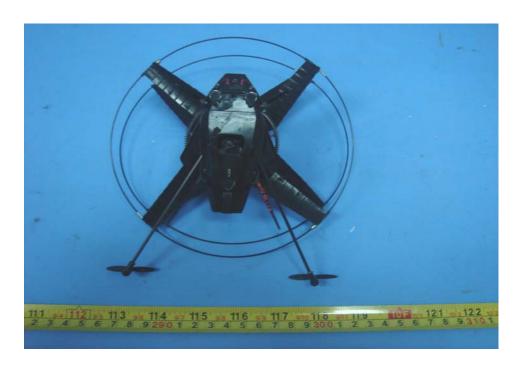
5.3.1 Radiated Emissions Test Setup



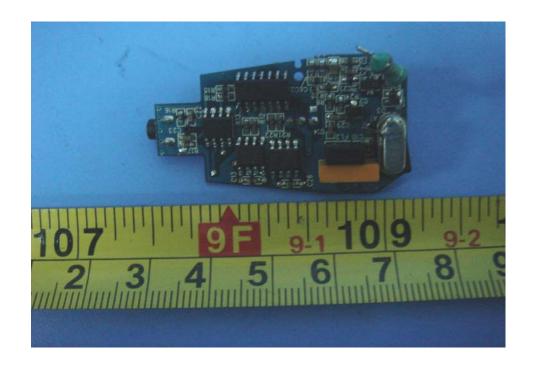
5.3.2 EUT - Front View



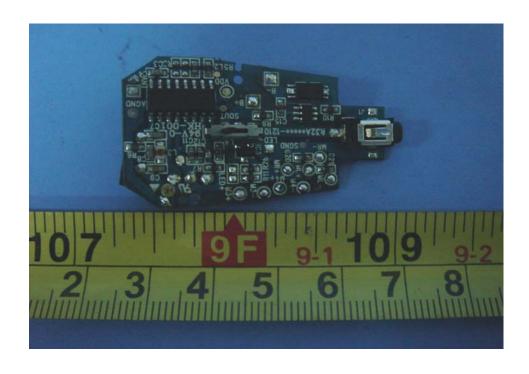
5.3.3 EUT - Back View



5.3.4 PCB - Front View



5.3.5 PCB - Back View



6 FCC ID Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT EUT View/ proposed FCC Label Location

