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Report No.: SZEMO080603019TXF(R)-1
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FCC ID: U2F30040802R4

FCC Test Report

Application No.: SZEMO080603019TX
Applicant: RIDEMAKERZ LLC.
Equipment Under Test (EUT):
EUT Name: RC car
Item No.: 3004
FCC ID: U2F30040802R4
Standards: FCC PART15 SUBPART B:2007
Date of Receipt: 08 September 2008
Date of Test: 08 to 09 September 2008
Date of Issue: 09 September 2008

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo
Laboratory 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 SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2007	ANSI C63.4:2003	Class B	PASS

Remark:

New batteries were installed in the EUT during all tests.

The three channels of the EUT has the same carried frequency 49.860MHz, with only different of the modulation signal code.



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4 General Information

4.1 Client Information

Applicant: RIDEMAKERZ LLC.

Address of Applicant: 1930 INNERBELT BUSINESS CENTER DR. ST. LOUIS, MISSOURI 63114.

4.2 Details of E.U.T.

Power Supply: 6.0V DC (4* 1.5 " AA" Size Batteries) for Rx.

4.3 Description of Support Units

The EUT has been tested as an independent unit.

4.4 Standards Applicable for Testing

The customer requested FCC tests for a receiver for a 49MHz transmitter.

The standard used was FCC PART 15, SUBPART B, CLASS B (2007)

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 8215 5555 Fax: +86 20 8207 5059

No tests were sub-contracted.

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

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5 Equipments Used during Test

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2007	15-06-2009
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2007	11-12-2008
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	17-06-2009
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2008	11-08-2009
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2008	17-06-2009
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2008	11-08-2009
8	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2008	17-06-2009
9	Band filter	Amindeon	82346	SEL0094	18-06-2008	17-06-2009
10	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2008	14-06-2009

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6 Test Results

6.1 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	FCC Part15 B
Test Method:	ANSI C63.4
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Class:	Class B
Limit:	40.0 dB μ V/m between 30MHz & 88MHz 43.5 dB μ V/m between 88MHz & 216MHz 46.0 dB μ V/m between 216MHz & 960MHz 54.0 dB μ V/m above 960MHz
Detector:	Peak for pre-scan (120kHz resolution bandwidth) Quasi-Peak if maximised peak within 6dB of limit

6.1.1 E.U.T. Operation

Operating Environment:			
Temperature:	23.0 °C	Humidity:	52 % RH
		Atmospheric Pressure:	1015 mbar
EUT Operation:	Test the EUT in On Mode.		

6.1.2 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 peak emissions from the EUT were detected within 6dB of the class B limit line.

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Vertical:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
213.33	1.48	10.89	27.08	48.47	33.76	43.50	-9.74
308.39	1.93	14.20	26.79	47.49	36.83	46.00	-9.17
378.23	2.14	16.03	27.27	45.78	36.68	46.00	-9.32
487.84	2.56	17.80	27.68	44.23	36.91	46.00	-9.09
548.95	2.65	18.87	27.66	42.81	36.67	46.00	-9.33

Horizontal:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
168.71	1.35	9.51	27.33	47.46	30.99	43.50	-12.51
231.76	1.58	11.73	27.00	52.61	38.92	46.00	-7.08
277.35	1.80	12.89	26.80	54.08	41.97	46.00	-4.03
479.11	2.52	17.80	27.65	43.81	36.48	46.00	-9.52
543.13	2.65	18.81	27.67	40.26	34.05	46.00	-11.95

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