

Issuing Laboratory: Intertek Testing Services Hong Kong Limited

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TEST REPORT

Report No.: 14050508HKG-002

Kidztech Toys Manufacturing Ltd.

Application For Certification (Original Grant) (FCC ID: OTM-88061-49MRX)

Superregenerative Receiver

Prepared and Checked by:

Approved by:

Tse Ying, Cathy Senior Lead Engineer

Ng Mei Nar, Chris Lead Engineer Date: June 03, 2014

The test report only allows to be revised within the retention period unless further standard or the requirement was noticed.

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Intertek Testing Services Hong Kong Ltd. 2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. Tel: (852) 2173 8888 Fax: (852) 2785 5487 Website: www.hk.intertek-etlsemko.com



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GENERAL INFORMATION

| Grantee: | Kidztech Toys Manufacturing Ltd. | | |
|---------------------------|---|--|--|
| Grantee Address: | Room 1201, 12/F., Inter-Continental Plaza, | | |
| | 94 Granville Road, Tsim Sha Tsui East, | | |
| | Kowloon, Hong Kong. | | |
| Contact Person: | Eric Ho | | |
| Tel: | (852) 2721 8868 | | |
| Fax: | (852) 2721 8838 | | |
| e-mail: | N/A | | |
| Manufacturer: | Shantou Chenghai JinJun Toys Co., Ltd. | | |
| Manufacturer Address: | Yongxin Industry Zone, Lianshang, Chenghai, Shantou, China | | |
| Brand Name: | N/A | | |
| Model: | 88091 / 88092 | | |
| | Additional Model: 88061 / 88071 / 88081 / 88101 / | | |
| | 88111 / 88121 / 88131 / 88141 / 88151 / 88161 / | | |
| | 88171 / 88181 / 88221 / 88231 / 88062 / 88072 / | | |
| | 88082 / 88102 / 88112 / 88122 / 88132 / 88142 / | | |
| | 88152 / 88162 / 88172 / 88182 / 88222 / 88232 / | | |
| | 5F62035 / 5F622E1 / 5F622E2 | | |
| Type of EUT: | Superregenerative Receiver | | |
| Description of EUT: | 1/12 R/C Cars | | |
| Serial Number: | N/A | | |
| FCC ID: | OTM-88061-49MRX | | |
| Date of Sample Submitted: | May 12, 2014 | | |
| Date of Test: | May 12, 2014 to May 26, 2014 | | |
| Report No.: | 14050508HKG-002 | | |
| Report Date: | June 03, 2014 | | |
| Environmental Conditions: | Temperature: +10 to 40°C | | |
| | Humidity: 10 to 90% | | |



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SUMMARY OF TEST RESULT

| TEST SPECIFICATION | REFERENCE | RESULTS |
|-----------------------------|-----------|---------|
| Receiver Radiated Emissions | 15.109 | Pass |

The equipment under test is found to be complying with the following standards: FCC Part 15, October 1, 2012 Edition

- Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the pervisions of this section.
 - Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.



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1.0 General Description

1.1 Product Description

The equipment under test (EUT) is a superregenerative receiver of a RC car operating at 49.860 MHz. The EUT is powered by a 7.2V rechargeable battery for rechargeable battery pack version and DC 9V (6 x 1.5V "AA" size batteries) for battery operated version. The EUT has an ON/OFF switch.

After switching ON the EUT and the transmitter of the RC car, the EUT can be controlled to move forward, reverse, left and right by the transmitter.

The Model: 88061 / 88071 / 88081 / 88101 / 88111 / 88121 / 88131 / 88141 / 88151 / 88161 / 88171 / 88181 / 88221 / 88231 / 88062 / 88072 / 88082 / 88102 / 88112 / 88122 / 88132 / 88142 / 88152 / 88162 / 88172 / 88182 / 88222 / 88232 / 5F62035 / 5F622E1 / 5F622E2 are the same as the Model: 88091 and 88092 in hardware aspect. The models are different in non conductive outer casing only.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

The Certification procedure of transmitter (with FCC ID: OTM-88061-49MTX) for this receiver (with FCC ID: OTM-88061-49MRX) is being processed as the same time of this application.



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1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009). All radiated measurements were performed in an Open Area Test Site. Preliminary scans were performed in the Open Area Test Site only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application.

1.4 Test Facility

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



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2.0 System Test Configuration

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2009).

The device was powered by new 6 x 1.5V AA size batteries (battery operated version) and 1 x 7.2V fully charged rechargeable battery (rechargeable battery pack version).

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The unit was operated standalone and placed in the center of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it receives the RF signal continuously.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.



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2.4 Measurement Uncertainty

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

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

2.5 Support Equipment List and Description

N/A.

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3.0 Emission Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows: FS = RA + AF + CF - AG - AV

where $FS = Field Strength in dB\mu V/m$ RA = Receiver Amplitude (including preamplifier) in dB μ V CF = Cable Attenuation Factor in dB AF = Antenna Factor in dB AG = Amplifier Gain in dB AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows: FS = RR + LF

where $FS = Field Strength in dB\mu V/m$ RR = RA - AG - AV in dB μ V LF = CF + AF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V/m AF = 7.4 dB CF = 1.6 dB AG = 29.0 dB AV = 5.0 dB FS = RR + LF FS = 18 + 9 = 27 dB μ V/m RR = 18.0 dB μ V LF = 9.0 dB

Level in μ V/m = Common Antilogarithm [(27 dB μ V/m)/20] = 22.4 μ V/m



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3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 51.469 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 4.7 dB



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Applicant: Kidztech Toys Manufacturing Ltd. Date of Test: May 26, 2014 Model: 88091 Worst-Case Operating Mode: Receiving (battery operated version)

Table 1

Radiated Emissions Pursuant to FCC Part 15 Section 15.109 Requirement

| | Frequency | Reading | Pre- amp | Antenna Factor | Net at 3m | Limit at 3m | Margin |
|--------------|-----------|---------|-------------|-------------------|--------------|----------------|--------|
| Polarization | (MHz) | (dBµV) | (dB) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| V | 45.987 | 38.5 | 16 | 10.0 | 32.5 | 40.0 | -7.5 |
| V | 49.635 | 38.6 | 16 | 11.0 | 33.6 | 40.0 | -6.4 |
| V | 51.469 | 40.3 | 16 | 11.0 | 35.3 | 40.0 | -4.7 |
| V | 53.642 | 39.5 | 16 | 11.0 | 34.5 | 40.0 | -5.5 |
| V | 55.639 | 38.4 | 16 | 11.0 | 33.4 | 40.0 | -6.6 |
| V | 96.456 | 38.2 | 16 | 12.0 | 34.2 | 43.5 | -9.3 |
| V | 99.746 | 38.5 | 16 | 12.0 | 34.5 | 43.5 | -9.0 |
| V | 103.792 | 37.4 | 16 | 13.0 | 34.4 | 43.5 | -9.1 |
| V | 148.165 | 35.6 | 16 | 14.0 | 33.6 | 43.5 | -9.9 |
| V | 151.369 | 35.0 | 16 | 15.0 | 34.0 | 43.5 | -9.5 |
| V | 155.894 | 33.3 | 16 | 16.0 | 33.3 | 43.5 | -10.2 |

NOTES: 1. Peak Detector Data unless otherwise stated.

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.



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Applicant: Kidztech Toys Manufacturing Ltd.Date of Test: May 26, 2014Model: 88092

Worst-Case Operating Mode: Receiving (rechargeable battery pack version)

Table 2

| | 1 | 1 | 1 | | 1 | | |
|--------------|-----------|---------|------|---------|----------|----------|--------|
| | | | Pre- | Antenna | Net | Limit | |
| | Frequency | Reading | amp | Factor | at 3m | at 3m | Margin |
| Polarization | (MHz) | (dBµV) | (dB) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| V | 45.987 | 38.6 | 16 | 10.0 | 32.6 | 40.0 | -7.4 |
| V | 49.635 | 38.6 | 16 | 11.0 | 33.6 | 40.0 | -6.4 |
| V | 51.469 | 40.2 | 16 | 11.0 | 35.2 | 40.0 | -4.8 |
| V | 53.642 | 39.5 | 16 | 11.0 | 34.5 | 40.0 | -5.5 |
| V | 55.639 | 38.4 | 16 | 11.0 | 33.4 | 40.0 | -6.6 |
| V | 96.456 | 38.2 | 16 | 12.0 | 34.2 | 43.5 | -9.3 |
| V | 99.746 | 38.8 | 16 | 12.0 | 34.8 | 43.5 | -8.7 |
| V | 103.792 | 37.4 | 16 | 13.0 | 34.4 | 43.5 | -9.1 |
| V | 148.165 | 35.6 | 16 | 14.0 | 33.6 | 43.5 | -9.9 |
| V | 151.369 | 35.2 | 16 | 15.0 | 34.2 | 43.5 | -9.3 |
| V | 155.894 | 33.3 | 16 | 16.0 | 33.3 | 43.5 | -10.2 |

Radiated Emissions Pursuant to FCC Part 15 Section 15.109 Requirement

NOTES: 1. Peak Detector Data unless otherwise stated.

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.



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4.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos 1.pdf and internal photos 2.pdf.

5.0 **Product Labelling**

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

6.0 **Technical Specifications**

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block 1.pdf, block 2.pdf and circuit 1.pdf and circuit 2.pdf respectively.

7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual 1.pdf and manual 2.pdf.

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



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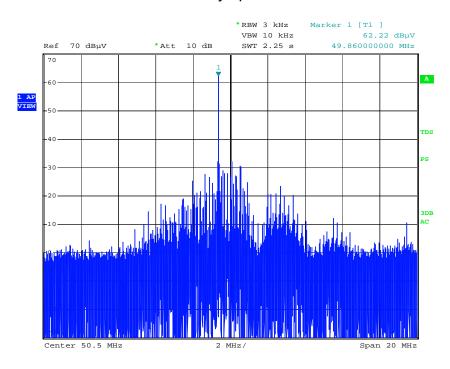


8.0 Miscellaneous Information

This miscellaneous information includes details of the stabilizing process (including a plot of the stabilized waveform) and the test procedure.

8.1 Stabilization Waveform

Previous to the testing, the superregenerative receiver was stabilized as outlined in the test procedure. The plot shows the fundamental emission when a signal generator was used to stabilize the receiver. Please not that the antenna was placed as close as possible to the EUT for clear demonstration of the waveform and that accurate readings are not possible from this plot.



Battery operated version



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Rechargeable battery pack version *RBW 3 kHz Marker 1 [T1] VBW 10 kHz 63.12 dBµV Ref 70 dBµV *Att 10 dB SWT 2.25 s 49.86000000 MHz 70 А 1 AP VIEW DS DB AC Center 50.5 MHz 2 MHz/ Span 20 MHz

Report No.: 14050508HKG-002 FCC ID: OTM-88061-49MRX Intertek Testing Services Hong Kong Ltd. 2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. Tel: (852) 2173 8888 Fax: (852) 2785 5487 Website: www.hk.intertek-etlsemko.com



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8.2 Discussion of Pulse Desensitization

This device is a Superregenerative receiver. No desensitization of the measurement equipment is required as the received signals are continuously.

8.3 Calculation of Average Factor

This device is a Superregenerative receiver. It is not necessary to apply average factor to the measurement result.

8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of Superregenerative receivers operating under the Part 15, Subpart B rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 (2009). A typical or an unmodulated CW signal at the operating frequency of the EUT has been supplied to the EUT for all measurements. Such a signal is supplied by a signal generator and an antenna in close proximity to the EUT. The signal level is sufficient to stabilize the local oscillator of the EUT.

The equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the groundplane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings.

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The frequency range scanned is from 30 MHz to 1000 MHz.



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8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.4 (2009).

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Above 1000 MHz, a resolution bandwidth of 1 MHz is used.

Measurements are normally conducted at a measurement distance of three meters. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.



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9.0 Equipment List

1) Radiated Emissions Test

| Equipment | EMI Test Receiver | Spectrum Analyzer |
|----------------------|-------------------|-------------------|
| Registration No. | EW-2666 | EW-2188 |
| Manufacturer | R&S | AGILENTTECH |
| Model No. | ESCI7 | E4407B |
| Calibration Date | Jun. 20, 2013 | Apr. 16, 2014 |
| Calibration Due Date | Jun. 20, 2014 | Apr. 16, 2015 |

| Equipment | Biconical Antenna | Log Periodic Antenna |
|----------------------|-------------------|----------------------|
| Registration No. | EW-2512 | EW-0447 |
| Manufacturer | EMCO | EMCO |
| Model No. | 3104C | 3146 |
| Calibration Date | Jun. 25, 2013 | Aug. 19, 2013 |
| Calibration Due Date | Dec. 25, 2014 | Feb. 19, 2015 |

| Equipment | Spectrum Analyzer | Signal Generator (250kHz to 40GHz) |
|----------------------|-------------------|---------------------------------------|
| Registration No. | EW-2249 | EW-1983 |
| Manufacturer | R&S | AGILENTTECH |
| Model No. | FSP30 | E8247C |
| Calibration Date | Oct. 28, 2013 | Apr. 12, 2013 |
| Calibration Due Date | Oct. 28, 2014 | Apr. 12, 2015 |

END OF TEST REPORT