

# **TEST REPORT**

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| То:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC DUE INTERNATIONAL LTD.                                                           |        | To:                      | -                                |  |
| Attn:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Linda Lei                                                                            |        | Attn:                    | -                                |  |
| Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit 2102, Greenfield Tower, Concordia Plaza, No.1 Science Museum Rd, TST East, KLN. |        | Address:                 | -                                |  |
| Fax:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 86317106                                                                             |        | Fax:                     | -                                |  |
| E-mail:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | linda@innovation-hk.com                                                              |        | E-mail:                  | -                                |  |
| Folder No.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BVC                                                                                  | CK10A  | P317HTHS-B               |                                  |  |
| Factory name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |        |                          |                                  |  |
| Location:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |        |                          |                                  |  |
| Product:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |        | GGY (49MHz)<br>L: KD0701 |                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |        | Sample No:               | (5210)111-0531                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |        | Test date:               | May 1, 2010<br>To<br>May 4, 2010 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |        | Test Requested:          | FCC Part 15 - 2008               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |        | Test Method:             | ANSI C63.4 - 2003                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |        | FCC ID:                  | YB91-1049MHZ                     |  |
| The results given in this report are related to the tested specimen of the described electrical apparatus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                      |        |                          |                                  |  |
| CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |        |                          |                                  |  |
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| (1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ). <sub>\</sub> \                                                                    |        | 0                        |                                  |  |
| 1 (Am (Law))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |        |                          |                                  |  |
| Reviewed by: I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Keith Yeung                                                                          | Appro  | ved by: Steven T         | sang                             |  |
| Date: May 18, 2010 Date: May 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                      |        |                          | -                                |  |
| AND THE RESERVE OF THE PARTY OF |                                                                                      |        |                          |                                  |  |

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## 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        | 31-MAY-2010     |
| OPEN AREA TEST<br>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          | 11-MAY-2010     |
| SPECTRUM<br>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: 1:10 BUGGY
Model Number: KD0701

Trade Name: Fast lane RC / Motorma RC

Additional Model 1:8 NEW BUGGY / 1:8 F1 / 1:10 CYCLONE / 1:10 TRUGGY /

Name: 1:8 Hot Rod

Additional Model KD0702B / KD0702C-G, KD0702C-0 / KD0714M, KD0714A, MDI1045 /

Number: MDI1049 / MDI1050 / MDI1051 / MDI1052 / MDI1053 / MDI1054 /

MDI1050 / MDI1056 / MDI1057 / KD0702 / 493379

Additional Model Declare the Circuit, PCB layout and Electrical parts of the products are identical to the basic model. Except the shape and decoration of shell is

different.

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

#### **Description of EUT Operation:**

The Equipment Under Test (EUT) is a Mac Due International Ltd. of Radio Control toy. It is a 1 wheel, 1 trigger and 1 switch transmitter and operating at 49.8602MHz. The EUT continues to transmit buttons is being pressed, Modulation by IC, and type is pulse modulation.

The transmitter has different control:

- 1. Wheel control left and right
- 2. Trigger- control forward and backward
- 3. On/off switch switch on / off

#### **Antenna Requirement (Section 15.203)**

The EUT is use of a permanently antenna. The antenna consists of 43.0cm long metal antenna. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.





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Fax: +852 2331 0889 www.cps.bureauveritas.com This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



#### **Radiated Emissions (Fundamental)**

Test Requirement: FCC Part 15 Section 15.235

Test Method: ANSI C63.4

Test Date(s): 2010-05-04

Temperature: 26.0 °C

Humidity: 62.0 %

Mode of Operation: Transmission mode

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

101.1 kPa

#### **Test Procedure:**

Atmospheric Pressure:

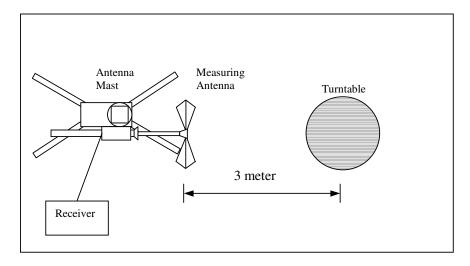
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2003.

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):

| - 6         |                    |                      |                      |  |  |  |  |
|-------------|--------------------|----------------------|----------------------|--|--|--|--|
|             | Frequency Range of | Field Strength of    | Field Strength of    |  |  |  |  |
| Fundamental |                    | Fundamental Emission | Fundamental Emission |  |  |  |  |
|             |                    | [Peak]               | [Average]            |  |  |  |  |
|             | [MHz]              | [μV/m]               | [μV/m]               |  |  |  |  |
| ı           | 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<br>(MHz) | Polarity<br>(H/V)<br>and<br>degree | Antenna<br>Factor and<br>Cable Loss<br>(dB/m) | Field Strength<br>at 3m<br>(dBµV/m) | Limit at 3m<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------|----------------|
| 49.86              | V/0°                               | 9.7                                           | 70.2                                | 100                     | -29.8          |

#### **Detection mode: # Average**

| Frequency<br>(MHz) | Polarity<br>(H/V)<br>and<br>degree | Antenna<br>Factor and<br>Cable Loss<br>(dB/m) | Field Strength<br>at 3m<br>(dBµV/m) | Limit at 3m<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|------------------------------------|-----------------------------------------------|-------------------------------------|-------------------------|----------------|
| 49.86              | V/0°                               | 9.7                                           | **66.0                              | 80                      | -14.0          |

# For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

\*\*Duty Cycle Correction = 20Log(0.618) =-4.2dB

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:

ANSI C63.4

Test Date(s):

2010-05-04

Temperature:

26.0 °C

Humidity:

4tmospheric Pressure:

101.1 kPa

Mode of Operation: Transmission 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<br>(MHz) | Polarity<br>(H/V) | Antenna Factor<br>and Cable Loss<br>(dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m<br>(dB <sub>µ</sub> V/m) | Margin<br>(dB) |
|--------------------|-------------------|--------------------------------------------|-------------------------------|--------------------------------------|----------------|
| 99.72              | Н                 | 10.7                                       | 23.4                          | 43.5                                 | -20.1          |
| 149.58             | Н                 | 10.9                                       | 22.6                          | 43.5                                 | -20.9          |
| 199.44             | Н                 | 11.6                                       | 22.0                          | 43.5                                 | -21.5          |
| 249.30             | Н                 | 13.8                                       | 23.7                          | 46.0                                 | -22.3          |
| 299.16             | Н                 | 15.0                                       | 25.8                          | 46.0                                 | -20.2          |
| 349.12             | Н                 | 16.8                                       | 26.3                          | 46.0                                 | -19.7          |
| 398.88             | Н                 | 18.1                                       | 27.8                          | 46.0                                 | -18.2          |
| 448.74             | Н                 | 19.0                                       | 27.8                          | 46.0                                 | -18.2          |
| 498.60             | V                 | 19.9                                       | 31.5                          | 46.0                                 | -14.5          |
| 548.46             | Н                 | 20.9                                       | 32.1                          | 46.0                                 | -13.9          |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz VBW = 120KHz

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## 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): 2010-05-01 Temperature: 26.0 °C Humidity: 62.0 % Atmospheric Pressure: 101.1 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.

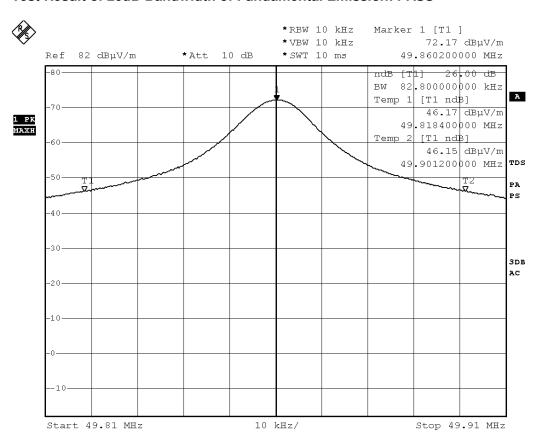
#### Limits for 26dB Bandwidth of Fundamental Emission:

| Frequency | 26dB Bandwidth | Limits             |  |  |  |  |
|-----------|----------------|--------------------|--|--|--|--|
| [MHz]     | [KHz]          | [MHz]              |  |  |  |  |
| 49.8602   | 82.8           | within 49.82-49.90 |  |  |  |  |



**Measurement Data:** 

#### Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 1.MAY.2010 14:33:27



#### **Duty Cycle Correction During 100msec:**

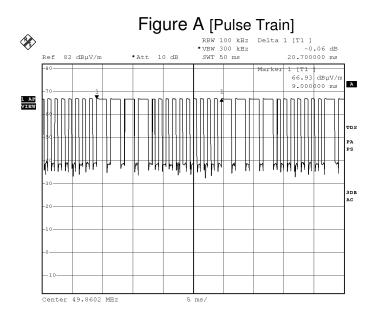
Each function key sends a different series of characters, but each packet period (20.7msec) never exceeds a series of 4 long (1.7msec) and 10 short (0.6msec) pulses. Assuming any combination of short or long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (4x1.7msec) + (10x0.6msec) per 20.7msec=61.8% duty cycle. Figure A and C show the characteristics of the pulse train for one of these functions.

Remarks:

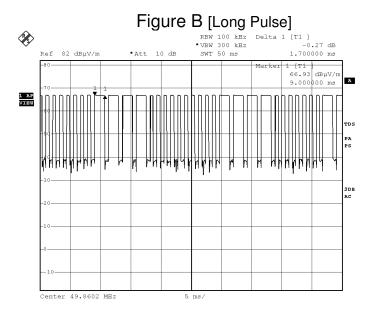
Duty Cycle Correction = 20Log(0.618) =-4.2dB

The following figures [Figure A to Figure C] show the characteristics of the pulse train for one of these functions.





Date: 1.MAY.2010 14:39:18



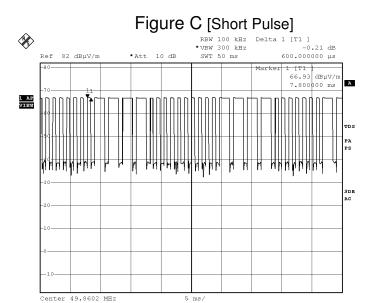
Date: 1.MAY.2010 14:39:45

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Date: 1.MAY.2010 14:40:22



## **Photographs of EUT**

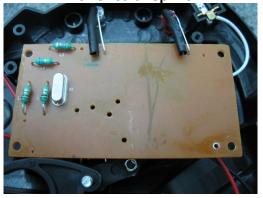
Front View of the product



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** 



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