



## **STC Test Report**

Date : 2010-06-03

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No. : HM165307

**Applicant (NEB001):** NEW BRIGHT INDUSTRIAL CO., LTD.  
9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET  
ROAD, KOWLOON BAY, KOWLOON, H.K.

**Manufacturer:** NEW BRIGHT INDUSTRIAL CO., LTD.  
9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET  
ROAD, KOWLOON BAY, KOWLOON, H.K.

**Description of Samples:** Product: Radio Control Toy Transmitter  
Brand Name: NEW BRIGHT  
Model Number: G6D202HKW  
FCC ID: G6D202HKW

**Date Samples Received:** 2010-05-25

**Date Tested:** 2010-05-28

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in  
accordance with FCC 47CFR [Codes of Federal Regulations]  
Part 15: 2009 and ANSI C63.4:2003 for FCC Certification.

**Conclusions:** The submitted product COMPLIED with the requirements of  
Federal Communications Commission [FCC] Rules and  
Regulations Part 15. The tests were performed in accordance  
with the standards described above and on Section 2.2 in this  
Test Report.

**Remarks:** ----

Dr. LEE Kam Chuen,  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

**The Hong Kong Standards and Testing Centre Ltd.**

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List of Measurement Equipment

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### **Appendix B**

Duty Cycle Correction During 100 msec

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### **Appendix C**

Photographs of EUT

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### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate  
New Territories, Hong Kong

Telephone: 852 2666 1888

Fax: 852 2664 4353

#### **1.2 Applicant Details**

##### **Applicant**

NEW BRIGHT INDUSTRIAL CO., LTD.  
9/F., NEW BRIGHT BUILDING,  
11 SHEUNG YUET ROAD, KOWLOON BAY, KOWLOON, H.K.

##### **Manufacturer**

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9/F., NEW BRIGHT BUILDING,  
11 SHEUNG YUET ROAD, KOWLOON BAY, KOWLOON, H.K.

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### **1.3 Equipment Under Test [EUT] Description of Sample**

|               |                                 |
|---------------|---------------------------------|
| Product:      | Radio Control Toy Transmitter   |
| Manufacturer: | NEW BRIGHT INDUSTRIAL CO., LTD. |
| Brand Name:   | NEW BRIGHT                      |
| Model Number: | G6D202HKW                       |
| Rating:       | 3Vd.c. ("AA" size battery x 2)  |

#### **1.3.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a NEW BRIGHT INDUSTRIAL CO., LTD., Radio Control Toy Transmitter. The EUT is a transmitter of radio control toy. The transmitter was operating with button, the EUT continues to transmit while button is being on, It is pulse transmitter, Modulation by IC, and type is pulse modulation.

### **1.4 Date of Order**

2010-05-25

### **1.5 Submitted Sample(s):**

1 Sample

### **1.6 Test Duration**

2010-05-28

### **1.7 Country of Origin**

China

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### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2009 and ANSI C63.4:2003 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

| <b>EMISSION<br/>Results Summary</b>                                |                  |                 |                     |                                     |                          |                          |
|--|------------------|-----------------|---------------------|-------------------------------------|--------------------------|--------------------------|
| Test Condition   | Test Requirement | Test Method     | Class /<br>Severity | Test Result                         |                          |                          |
|  |                  |                 |                     | Pass                                | Failed                   | N/A                      |
| Field Strength of<br>Fundamental Emissions &<br>Spurious Emissions | FCC 47CFR 15.227 | ANSI C63.4:2003 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emissions   | FCC 47CFR 15.209 | ANSI C63.4:2003 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

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### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions (30 – 1000MHz)**

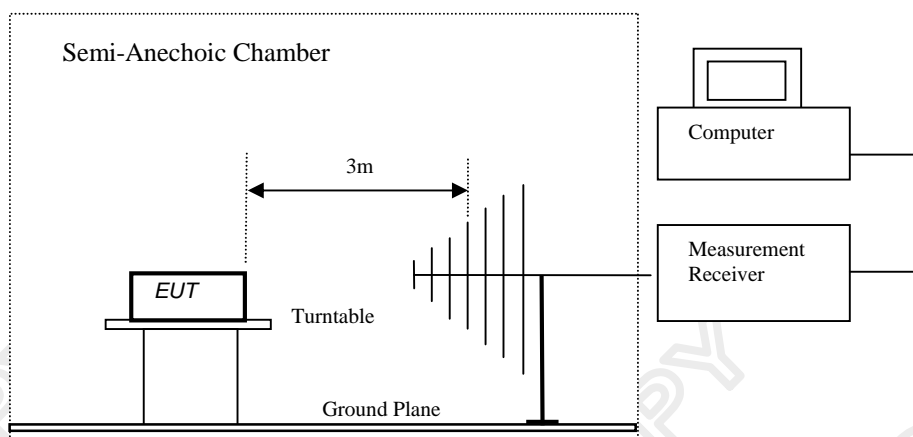
Test Requirement: FCC 47CFR 15.227  
Test Method: ANSI C63.4:2003  
Test Date: 2010-05-28  
Mode of Operation: Tx mode

#### **Test Method:**

The sample was placed 0.8m above the ground plane on a standard radiated emission test site. Measurements in both horizontal and vertical polarities were performed. 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, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

\*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

#### **Test Setup:**



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### **Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.227]:**

| Frequency Range of Fundamental<br>[MHz] | Field Strength of Fundamental Emission<br>[Peak]<br>[ $\mu\text{V/m}$ ] | Field Strength of Fundamental Emission<br>[Average]<br>[ $\mu\text{V/m}$ ] |
|---|---|--|
| 26.96-27.28                             | 100,000   | 10,000   |

**Results of Tx Mode: PASS**

| Field Strength of Fundamental Emissions<br>Peak Value |  |                           |                                      |                                   |                              |                  |
|---|--|---------------------------|--------------------------------------|-----------------------------------|------------------------------|------------------|
| Frequency<br>MHz                                      | Measured Level @3m<br>dB $\mu\text{V}$ | Correction Factor<br>dB/m | Field Strength<br>dB $\mu\text{V/m}$ | Field Strength<br>$\mu\text{V/m}$ | Limit @3m<br>$\mu\text{V/m}$ | E-Field Polarity |
| 27.15   | 49.30                                  | 8.7                       | 58.0                                 | 794.3                             | 100,000                      | Horizontal       |

| Field Strength of Fundamental Emissions<br>Average Value |  |                              |                           |                                      |                                   |                              |                  |
|--|--|------------------------------|---------------------------|--------------------------------------|-----------------------------------|------------------------------|------------------|
| Frequency<br>MHz   | Measured Level @3m<br>dB $\mu\text{V}$ | Adjusted by Duty Cycle<br>dB | Correction Factor<br>dB/m | Field Strength<br>dB $\mu\text{V/m}$ | Field Strength<br>$\mu\text{V/m}$ | Limit @3m<br>$\mu\text{V/m}$ | E-Field Polarity |
| 27.15  | 44.0                                   | -5.25                        | 8.7                       | 52.7                                 | 431.5                             | 10,000                       | Horizontal       |

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty: 30MHz to 1GHz 5.1dB

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### **Limits for Radiated Emissions [FCC 47 CFR 15.209]:**

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[ $\mu\text{V/m}$ ] |
|--------------------------|--|
| 30-88                    | 100                                      |
| 88-216                   | 150                                      |
| 216-960                  | 200                                      |
| Above 960                | 500                                      |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### **Results of Tx Mode: PASS**

| Radiated Emissions<br>Quasi-Peak |   |                              |   |                                      |                              |                     |
|----------------------------------|---|------------------------------|---|--------------------------------------|------------------------------|---------------------|
| Frequency<br>MHz                 | Measured<br>Level @3m<br>dB $\mu\text{V}$ | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dB $\mu\text{V/m}$ | Field<br>Strength<br>$\mu\text{V/m}$ | Limit @3m<br>$\mu\text{V/m}$ | E-Field<br>Polarity |
| 54.3                             | < 1.0                                     | 8.7                          | < 9.7                                   | < 3.1                                | 100                          | Vertical            |
| 81.4                             | < 1.0                                     | 8.4                          | < 9.4                                   | < 3.0                                | 100                          | Vertical            |
| 108.6                            | < 1.0                                     | 9.2                          | < 10.2                                  | < 3.2                                | 150                          | Vertical            |
| 135.7                            | 13.6                                      | 9.1                          | 22.7                                    | 13.6                                 | 150                          | Horizontal          |
| 162.9                            | 12.5                                      | 10.8                         | 23.3                                    | 14.6                                 | 150                          | Horizontal          |
| 190.0                            | 16.3                                      | 11.3                         | 27.6                                    | 24.0                                 | 150                          | Horizontal          |
| 217.2                            | 14.6                                      | 12.4                         | 27.0                                    | 22.4                                 | 200                          | Horizontal          |
| 244.3                            | < 1.0                                     | 14.1                         | < 15.1                                  | < 5.7                                | 200                          | Vertical            |
| 271.4                            | 13.5                                      | 14.3                         | 27.8                                    | 24.5                                 | 200                          | Horizontal          |
| 298.6                            | 10.5                                      | 15.2                         | 25.7                                    | 19.3                                 | 200                          | Horizontal          |

Remarks:

No further spurious emissions found between lowest internal frequency and 30MHz

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty: 30MHz to 1GHz 5.1dB

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### **3.2 20dB Bandwidth of Fundamental Emission**

Test Requirement: FCC 47 CFR 15.227  
Test Method: ANSI C63.4:2003 (Section 13.1.7)  
Test Date: 2010-05-28  
Mode of Operation: On mode

#### **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.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

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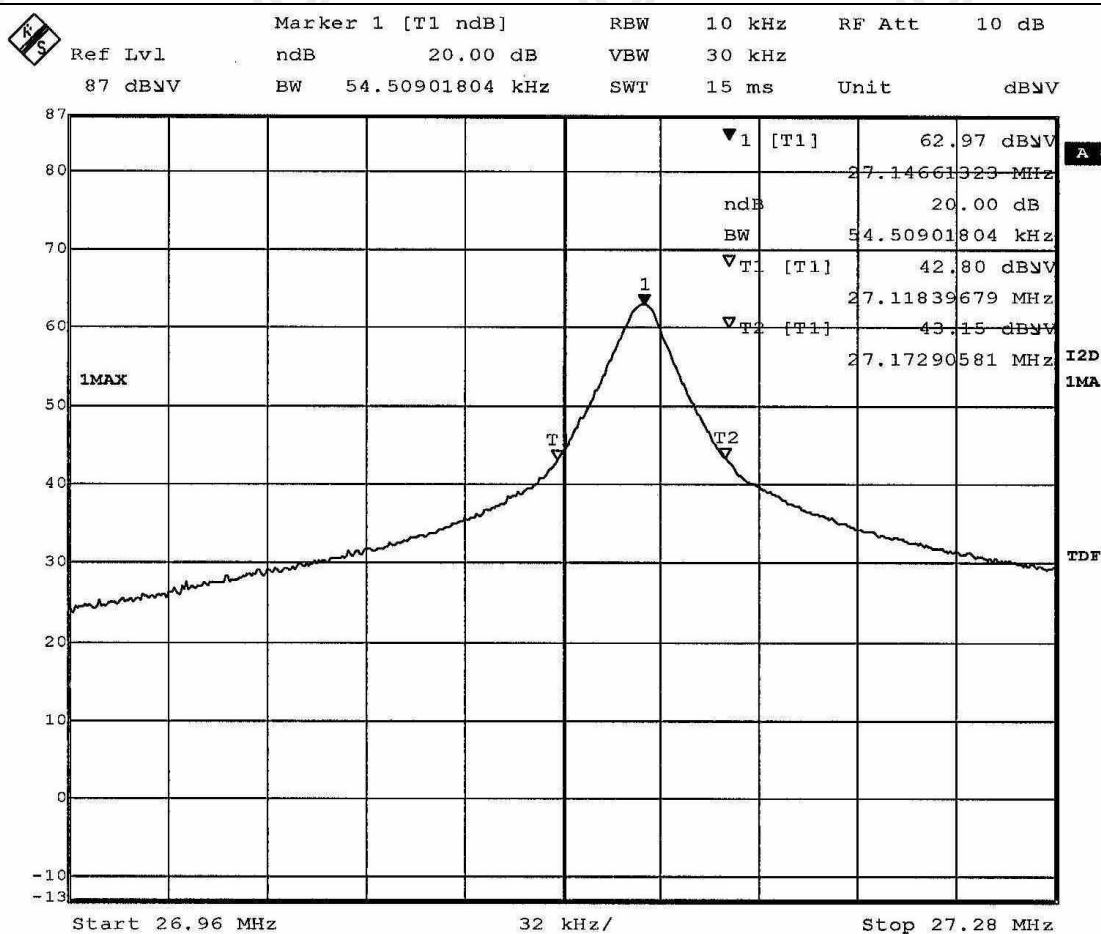
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### Limits for 20dB Bandwidth of Fundamental Emission:

| Frequency Range<br>[MHz] | 20dB Bandwidth<br>[kHz] | FCC Limits<br>[kHz] |
|--------------------------|-------------------------|---------------------|
| 27.15                    | 54.509                  | within 26.96-27.28  |

### 20dB Bandwidth of Fundamental Emission



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### **Appendix A**

#### **List of Measurement Equipment**

##### **Radiated Emission**

| <b>EQP NO.</b> | <b>DESCRIPTION</b>            | <b>MANUFACTURER</b> | <b>MODEL NO.</b> | <b>SERIAL NO.</b> | <b>LAST CAL</b> | <b>DUE CAL</b> |
|----------------|-------------------------------|---------------------|------------------|-------------------|-----------------|----------------|
| EM020          | HORN ANTENNA                  | EMCO                | 3115             | 4032              | 2009/09/02      | 2010/09/02     |
| EM215          | MULTIDEVICE CONTROLLER        | EMCO                | 2090             | 00024676          | N/A             | N/A            |
| EM216          | MINI MAST SYSTEM              | EMCO                | 2075             | 00026842          | N/A             | N/A            |
| EM217          | ELECTRIC POWERED<br>TURNTABLE | EMCO                | 2088             | 00029144          | N/A             | N/A            |
| EM218          | ANECHOIC CHAMBER              | ETS-Linggren        | FACT-3           | --                | 2008/12/01      | 2011/12/01     |
| EM194          | BICONILOG ANTENNA             | EMCO                | 3142B            | 1795              | 2008/09/08      | 2010/09/08     |
| EM229          | EMI Test Receiver             | R&S                 | ESIB40           | 100248            | 2009/09/27      | 2010/09/27     |
| EM022          | LOOP ANTENNA                  | EMCO                | 6502             | 1189-2424         | 2009/07/26      | 2011/07/26     |

#### **Remarks:-**

CM      Corrective Maintenance  
N/A      Not Applicable or Not Available  
TBD      To Be Determined

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### **Appendix B**

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

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 8 long pulses (1.503msec) and 85 short pulses (501.002μsec). Assuming any combination of short and long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered  $(8 \times 1.503\text{msec}) + (85 \times 501.002\mu\text{sec})$  per 100msec = 54.609% duty cycle. Figure A through C show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction =  $20\text{Log}(0.54609) = -5.25\text{dB}$

Duty Cycle Correction = -20dB, if the calculation duty cycle correction > -20dB.

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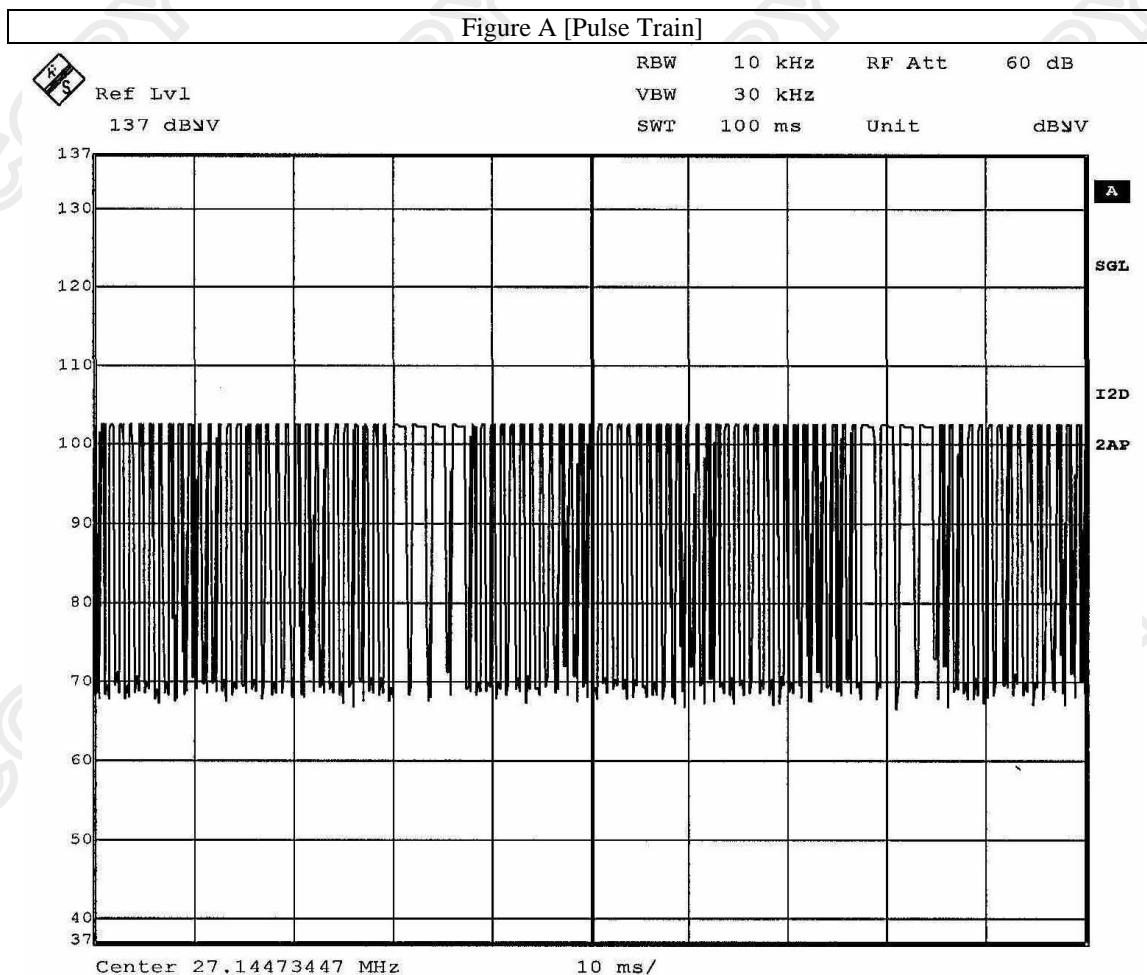
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The following figures [Figure A to Figure C] show the characteristics of the pulse train for one of these functions.



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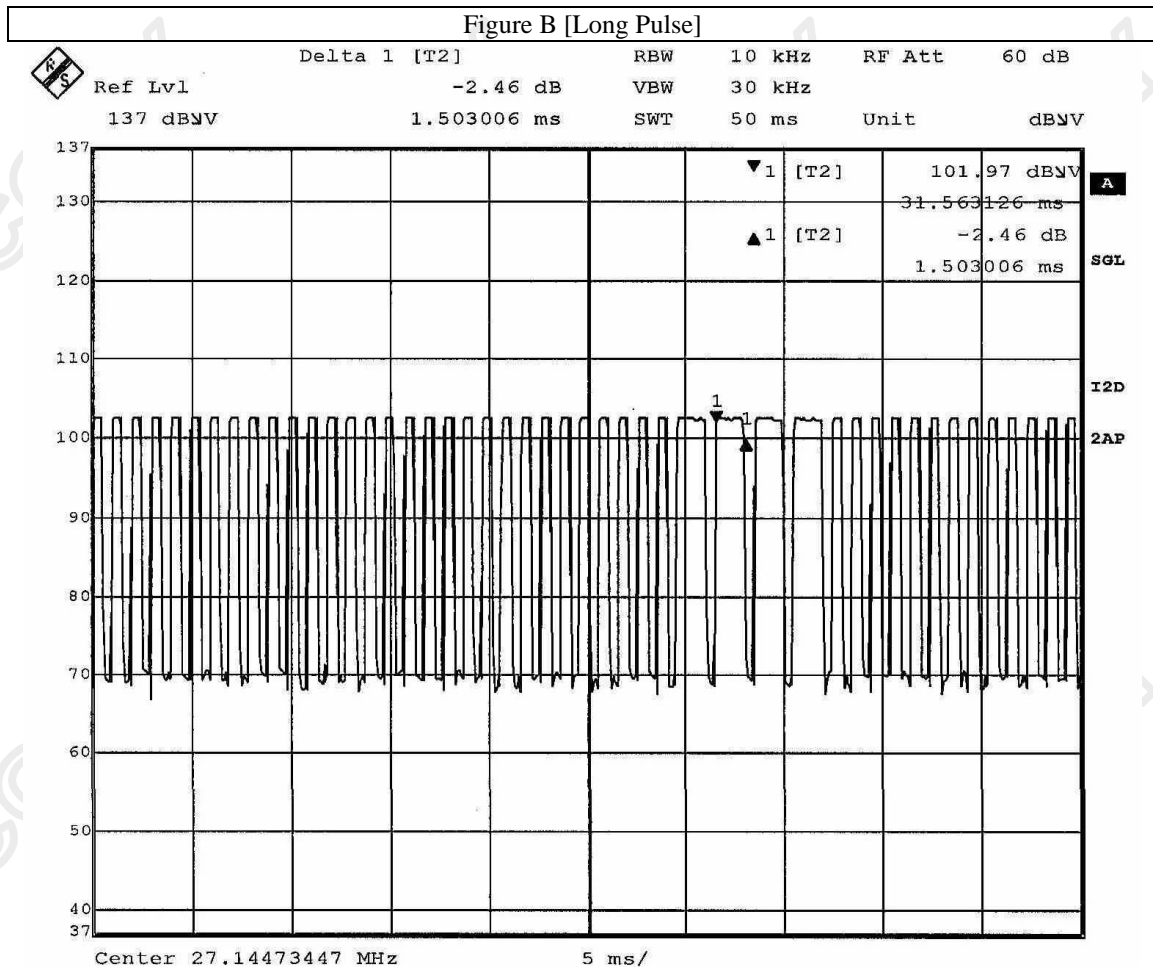


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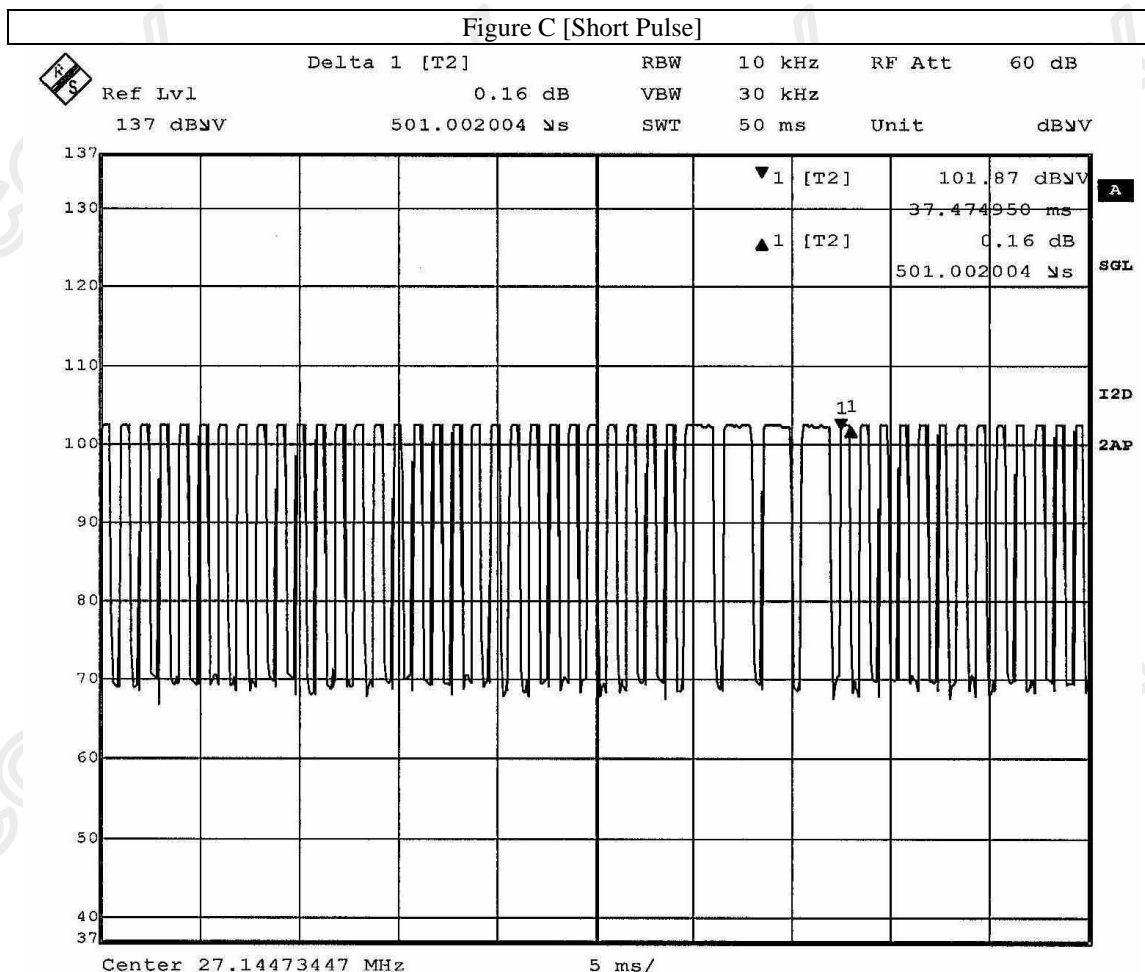


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### **Appendix C**

#### **Photographs of EUT**

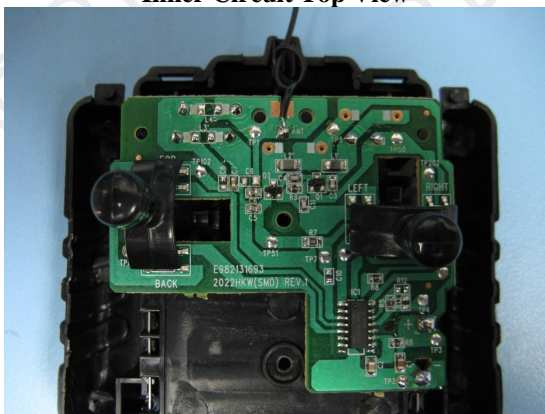
**Front View of the product**



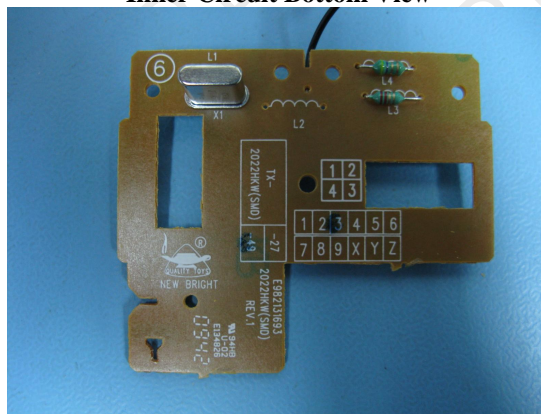
**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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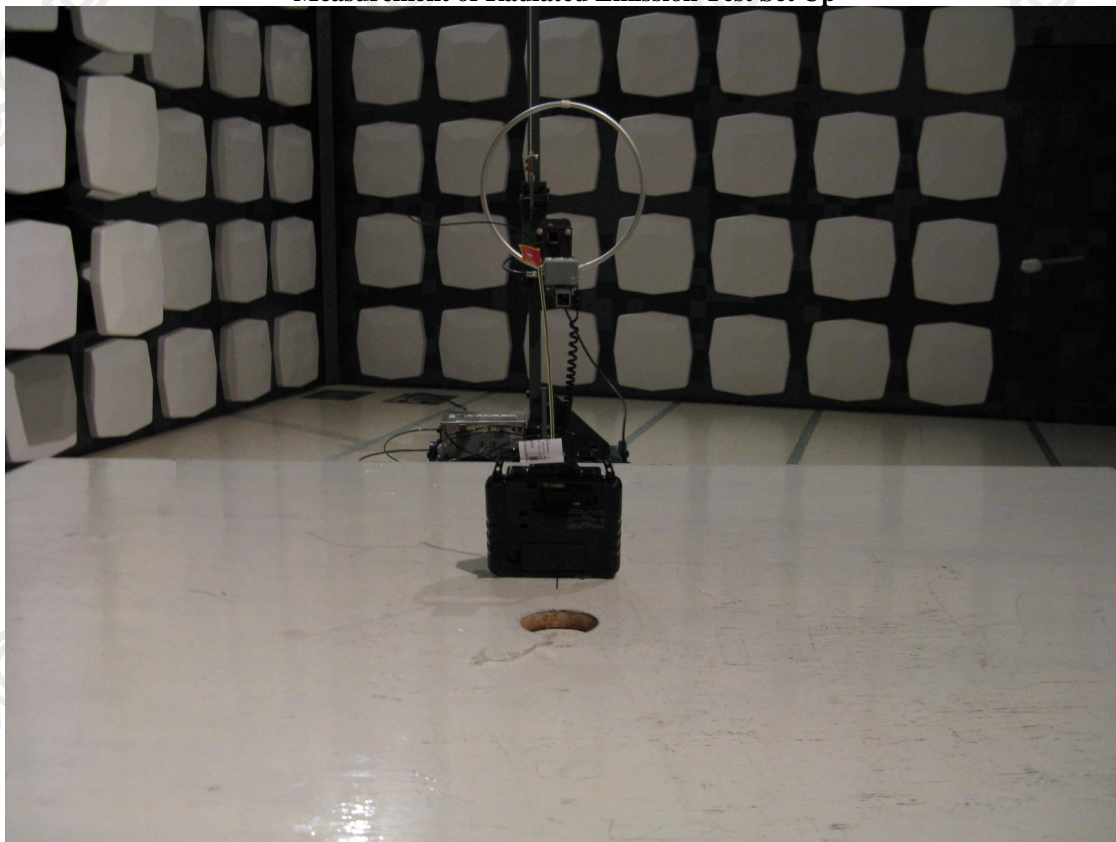
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### **Photographs of EUT**

**Measurement of Radiated Emission Test Set Up**



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

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