# FCC TEST REPORT

## Under

## FCC 15 Subpart B

## For

## ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD.

## CLUB VIBE

FCC ID : XG5ROB1011

Model No. : OB1011-01

Prepared for : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD.
NO. 35 FIRST ROAD, ZHUHAI BAIJAO NEW TECHNOLOGICAL & INDUSTRIAL PARK, ZHUHAI CITY. GUANGDONG PROVINCE, CHINA

Prepared By : Shenzhen AOV Testing Technology Co., Ltd.
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Report No. : A001P110725006E-1

Date of Test : August 05-10, 2011

Date of Rep. : August 10, 2011

# TABLE OF CONTENTS

Description Page

Test Report Declaration

# TEST REPORT DECLARATION

| | | |
|---|---|---|
| Applicant | : | ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD. |
| Manufacturer | : | ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD. |
| EUT Description | : | CLUB VIBE |

| | | |
|---|---|---|
| (A) Model No. | : | OB1011-01 |
| (B) Serial No. | : | N/A |
| (C) Power Supply | : | DC 3.7V |

**Test Procedure Used:**
**FCC Rules and Regulations Part 15 Subpart B.**

The device described above has been tested by **Shenzhen AOV Testing Technology Co., Ltd** to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both conducted and radiated emissions. The test results are contained in this test report and **Shenzhen AOV Testing Technology Co., Ltd** is assumed of full responsibility for the accuracy and completeness of these tests. Also, this report shows that the EUT (Equipment under Test) is complies with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of **Shenzhen AOV Testing Technology Co., Ltd.**

Date of Test: August 05-10, 2011

Prepared by:

Yang Tun Bo, Kingsley
Project Engineer

Reviewed by:

Chen Chu Peng, Kait
Project Supervisor

Approved by:

Lv Jie Hua, Jeewah
Technical Director

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

Description : CLUB VIBE

Model No. : OB1011-01

Applicant : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD.
NO. 35 FIRST ROAD, ZHUHAI BAIJAO NEW TECHNOLOGICAL & INDUSTRIAL PARK, ZHUHAI CITY. GUANGDONG PROVINCE, CHINA

Manufacturer : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD.
NO. 35 FIRST ROAD, ZHUHAI BAIJAO NEW TECHNOLOGICAL & INDUSTRIAL PARK, ZHUHAI CITY. GUANGDONG PROVINCE, CHINA

Date of Test : August 05-10, 2011

## 1.2. Test Facility

| | | |
|---|---|---|
| Test Firm | : | Bontek Compliance Testing Laboratory Ltd.<br>Certificated by FCC, Registration No.: 338263 |
| Address | : | FL.1, Building H-3, Hua Qiao Cheng East Industrial Area<br>Qiaocheng East Road, Nanshan, Shenzhen, P.R.China |
| Tel | : | 86-755-86337020 |
| Fax | : | 86-755-86337028 |

## 1.3. Uncertainty

Conducted Emission Uncertainty = ±2.23dB
Radiated Emission Uncertainty = ±4.26dB

## 1.4. Description of Test System

| | | |
|---|---|---|
| PC | DELL | E6420 |
| Monitor | DELL | OG335H |
| Keyboard | DELL | SK-8115 |
| Mouse | DELL | MOC5UO |

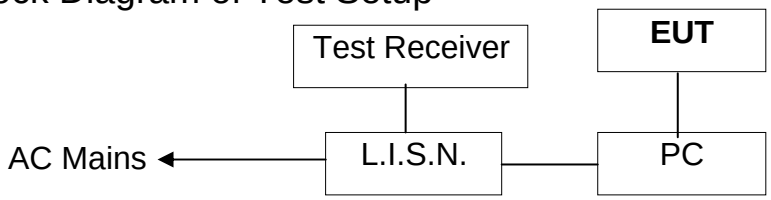
# 2. POWER LINE CONDUCTED EMISSION TEST

## 2.1. Test Equipment

The following test equipments are used during the power Line Conducted emission test:

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal data |
|---|---|---|---|---|---|
| 1. | Spedtrum Analyzer | ADVANTEST | R3261C | 51720141 | 2011-02-22 |
| 2. | EMI Test Receiver | R&S | ESCI | 837010/012 | 2011-02-22 |
| 3. | RF Selector | TOYO | NS4000 | 9507001 | 2011-02-22 |
| 4. | AM/FM Stereo Signal Generator | Panasonic | VP-8122A | 4D0461C125 | 2011-02-22 |

## 2.2. Block Diagram of Test Setup




*(EUT:CLUB VIBE)*

## 2.3. Power Line Conducted Emission Limit

| Frequency MHz | Limits (dBμV) | |
|---|---|---|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

Notes:

1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

## 2.4. EUT Configuration on Test

The following equipments are installed on conducted emission Test to meet the Commission requirement and operating regulations in a manner that tends to maximize its emission characteristics in a normal application.

2.4.1.1.CLUB VIBE（EUT）

Model Number : OB1011-01

Serial Number : E2011081001K

Manufacturer : ZHUHAI WINGPOW EROTIC & NOVELTY MANUFACTURING CO., LTD.

## 2.5. Operating Condition of EUT

Setup the EUT and simulator as shown on Section 2.2.

Turn on the power of all equipment.

Let the EUT work in test mode (On) and measure it.

## 2.6. Test Procedure

The EUT is put on the table that is 0.8m high above the ground and at least away from other Metallic surface 0.4m. The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohms coupling impedance for the testing equipment; and the peripheral equipment powers form other L.I.S.N. Please refer to the block diagram of the test setup and photographs. Both sides of AC line (Line & Neutral) are checked for maximum conducted interference. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables must be changed according to FCC part 15 B.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 120 KHz.

The frequency range from 150KHz to 30MHz is checked. The details of test modes are listed as follows, and the test data has been listed in APPENDIX I.

## 2.7. Power Line Conducted Emission Test Results

**PASS.**

The frequency range 150KHz to 30MHz is investigated.

Detailed information, please see the appendix (I) file.

# 3. RADIATED EMISSION TEST

## 3.1. Test Equipment

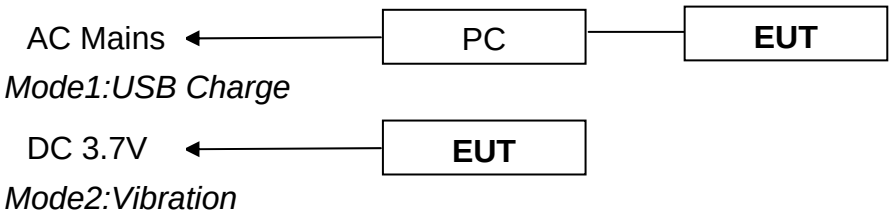
The following test equipments are used during the radiated emission test:

For Anechoic Chamber

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal data |
|---|---|---|---|---|---|
| 1. | EMI Test Receiver | R&S | ES126 | 838786/013 | 2011-02-22 |
| 2. | Amplifier | HP | 8447D | 1937A02492 | 2011-02-22 |
| 3. | TRILOG Broadband Test-Antenna | SCHWARZBECK | VUBA9163 | 9163-324 | 2011-02-22 |

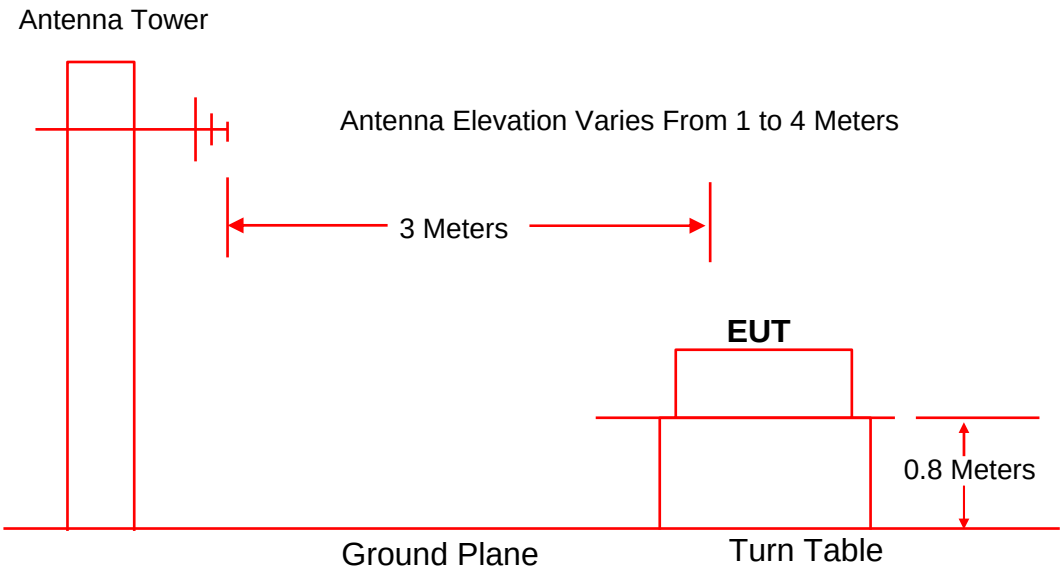
## 3.2. Block Diagram of Test Setup

### 3.2.1. For Block Diagram of Test Setup




*(EUT: CLUB VIBE)*

### 3.2.2. Anechoic Chamber Setup Diagram



## 3.3. Radiation Limit

| Frequency MHz | Distance (Meter/s) | Field Strengths Limits dB(μV)/m |
|---|---|---|
| 30 ~ 88 | 3 | 40.0 |
| 88 ~ 216 | 3 | 43.5 |
| 216 ~ 960 | 3 | 46.0 |
| 960 ~ 1000 | 3 | 54.0 |

**Remark**: (1) Emission level (dB (μV)/m) = 20 log Emission level (μV/m)

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

## 3.4. EUT Configuration on Test

The following equipments are installed on RF LINE VOLTAGE Test to meet the Commission requirement and operating regulations in a manner that tends to maximize its emission characteristics in a normal application.

## 3.5. Operating Condition of the EUT

3.5.1. Setup the EUT and simulator as shown on Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (On) and measure it.

## 3.6. Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to ANSI / IEEE Standard 187-1990 on radiated emission test.

The bandwidth setting on the field strength meter (R & S Test Receiver ES126) is set at 120 KHz.

The frequency range from 30MHz to 1000MHz is checked. The test data are listed in the Section 3.7 and the scanning waveform are attached within Appendix II.

## 3.7. Radiated Emission Test Result

**PASS**.

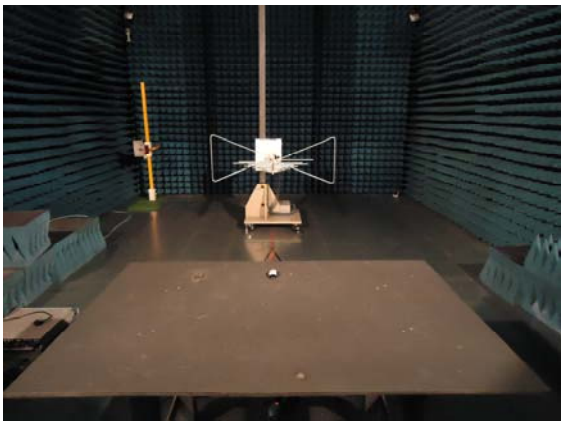
Detailed information, please see the appendix (II) file.

# 4. PHOTOGRAPHS OF TEST SETUP

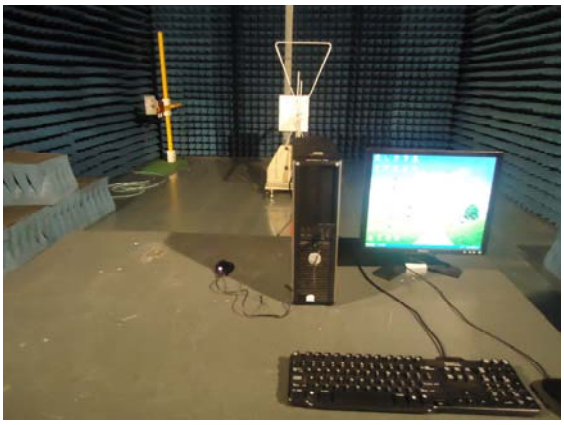
## 4.1. Photo of Power Line Conducted Emission Test

**(Test Mode: USB Charger)**

## 4.2. Photo of Radiated Emission Test



**（Test Mode: Vibration）**

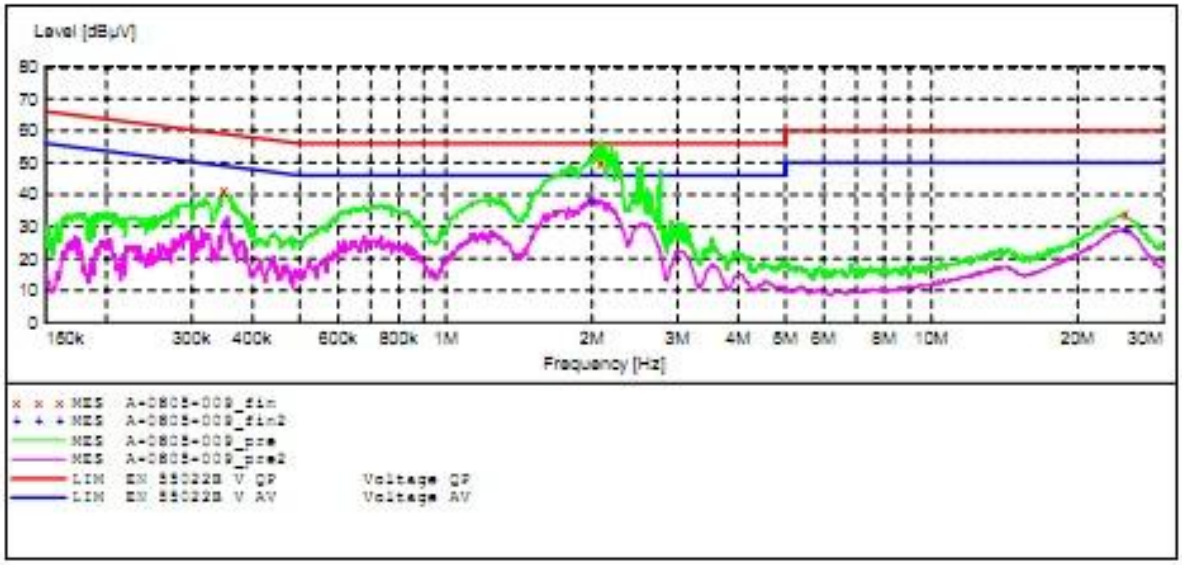


**(Test Mode:USB Charge)**

# APPENDIX I
# Power Line Conducted Emission
# Test Data

# Power Line Conducted Emission

| | |
|---|---|
| Engineer : Andy | |
| EUT : CLUB VIBE | Time : 2011/08/03 |
| Limit : FCC Part 15B | Comment : 22℃/55% |
| MN: OB1011-01 | Note : L |
| Power : AC 120V, 60Hz | |




***MEASUREMENT RESULT:***

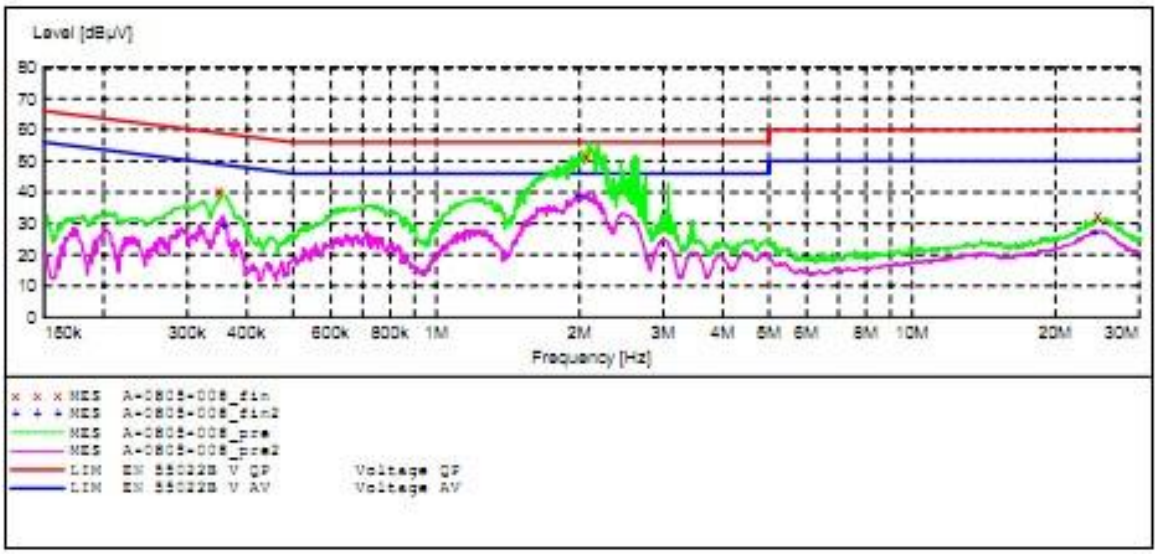
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.349654 | 41.00 | 11.7 | 59 | 18.0 | QP | L1 | GND |
| 2.082610 | 49.90 | 11.7 | 56 | 6.1 | QP | L1 | GND |
| 25.044426 | 34.10 | 11.0 | 60 | 25.9 | QP | L1 | GND |

***MEASUREMENT RESULT:***

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.355282 | 30.20 | 11.7 | 49 | 18.6 | AV | L1 | GND |
| 1.993137 | 37.80 | 11.7 | 46 | 8.2 | AV | L1 | GND |
| 25.144604 | 28.70 | 11.0 | 50 | 21.3 | AV | L1 | GND |

# Power Line Conducted Emission

| | |
|---|---|
| Engineer : Andy | |
| EUT : CLUB VIBE | Time : 2011/08/03 |
| Limit : FCC Part 15B | Comment : 22℃/55% |
| MN: OB1011-01 | Note : N |
| Power : AC 120V, 60Hz | |




***MEASUREMENT RESULT:***

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.351053 | 40.40 | 11.7 | 59 | 18.5 | QP | N | GND |
| 2.074313 | 51.10 | 11.7 | 56 | 4.9 | QP | N | GND |
| 24.549492 | 32.40 | 11.0 | 60 | 27.6 | QP | N | GND |

***MEASUREMENT RESULT:***

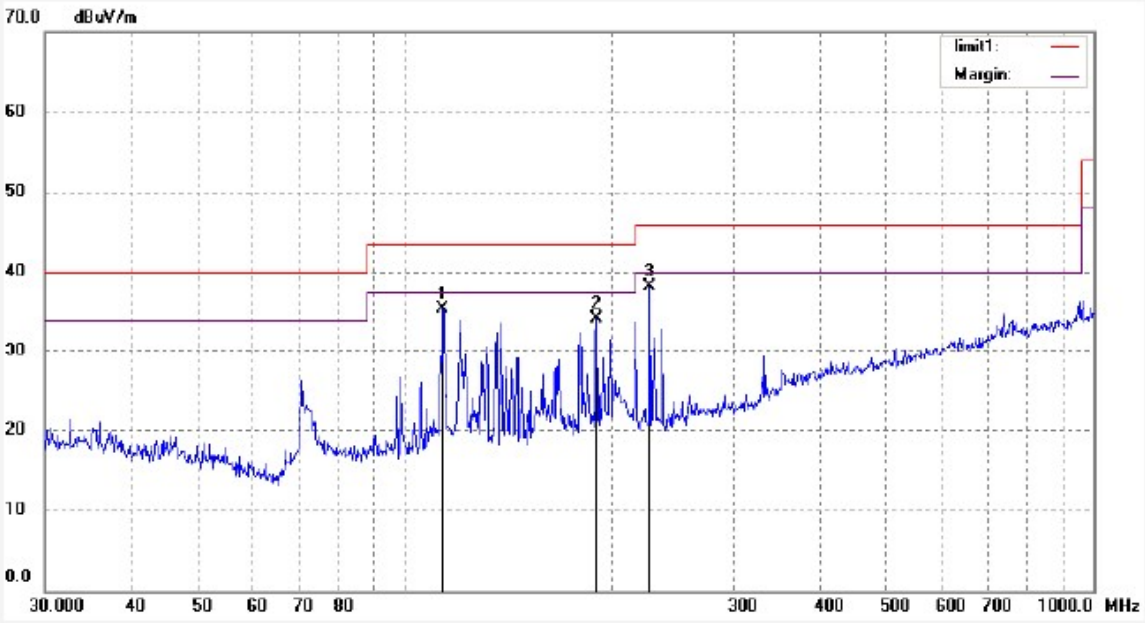
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.358130 | 29.00 | 11.7 | 49 | 19.8 | AV | N | GND |
| 1.993137 | 38.40 | 11.7 | 46 | 7.6 | AV | N | GND |
| 24.160597 | 27.00 | 11.1 | 50 | 23.0 | AV | N | GND |

# APPENDIX II

# Radiated Emission Test Data

# Radiated Emission

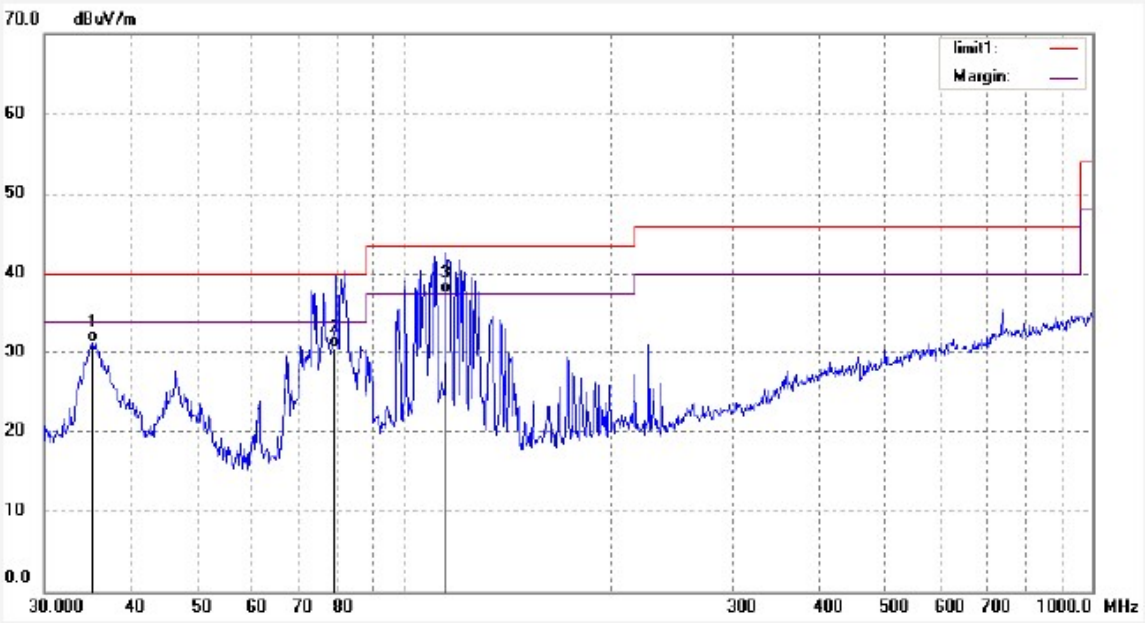
| | |
|---|---|
| **Engineer : Andy** | |
| **EUT : CLUB VIBE** | **Time : 2011/08/03** |
| **Limit : FCC Part 15B** | **Comment : 25℃/55%** |
| **MN: OB1011-01** | **Note : Hor** |
| **Power : AC 120V,60Hz** | **Test Model: USB Charge** |




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 113.6185 | 21.27 | 14.21 | 35.48 | 43.50 | -8.02 | peak | | | |
| 2 | 189.7732 | 18.08 | 16.07 | 34.15 | 43.50 | -9.35 | peak | | | |
| 3 | 227.0164 | 21.32 | 16.90 | 38.22 | 46.00 | -7.78 | peak | | | |

# Radiated Emission

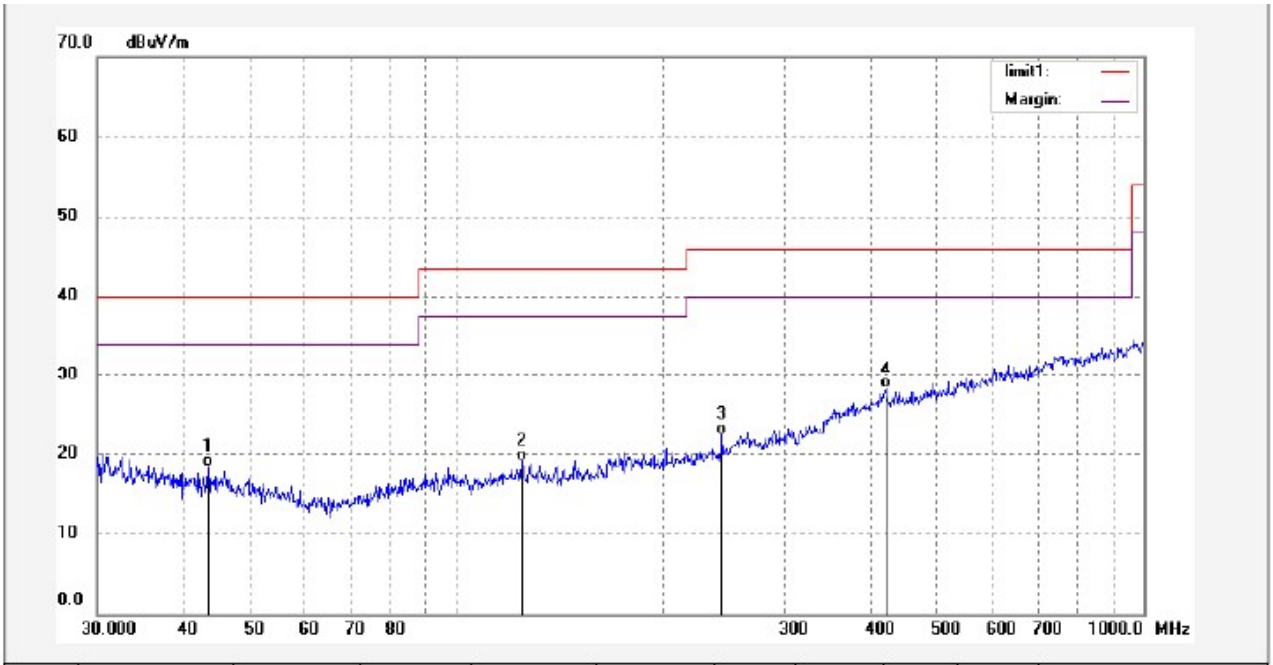
| | |
|---|---|
| **Engineer : Andy** | |
| **EUT : CLUB VIBE** | **Time : 2011/08/03** |
| **Limit : FCC Part 15B** | **Comment : 25℃/55%** |
| **MN: OB1011-01** | **Note : Ver** |
| **Power : AC 120V, 60Hz** | **Test Model: USB Charge** |




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35.2626 | 15.82 | 15.67 | 31.49 | 40.00 | -8.51 | QP | | | |
| 2 | 78.2923 | 17.11 | 13.59 | 30.70 | 40.00 | -9.30 | QP | | | |
| 3 | 115.2266 | 23.28 | 14.30 | 37.58 | 43.50 | -5.92 | QP | | | |

# Radiated Emission

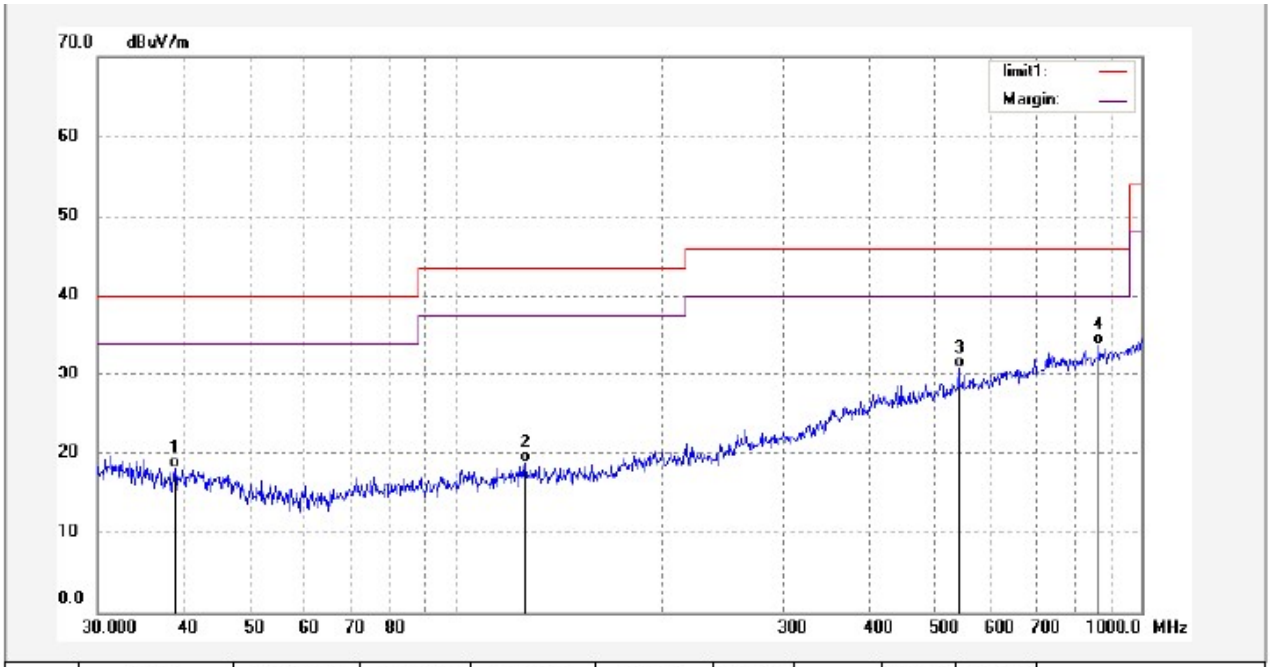
| | |
|---|---|
| **Engineer : Andy** | |
| **EUT : CLUB VIBE** | **Time : 2011/08/03** |
| **Limit : FCC Part 15B** | **Comment : 25℃/55%** |
| **MN: OB1011-01** | **Note : Hor** |
| **Power : DC 3.7V** | **Test Model: Vibration** |




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43.5380 | 3.92 | 14.48 | 18.40 | 40.00 | -21.60 | QP | | | |
| 2 | 124.4868 | 4.17 | 15.02 | 19.19 | 43.50 | -24.31 | QP | | | |
| 3 | 243.5431 | 5.51 | 16.99 | 22.50 | 46.00 | -23.50 | QP | | | |
| 4 | 421.3287 | 5.02 | 23.16 | 28.18 | 46.00 | -17.82 | QP | | | |

# Radiated Emission

| | |
|---|---|
| **Engineer : Andy** | |
| **EUT : CLUB VIBE** | **Time : 2011/08/03** |
| **Limit : FCC Part 15B** | **Comment : 25℃/55%** |
| **MN: OB1011-01** | **Note : Hor** |
| **Power : DC 3.7V** | **Test Model: Vibration** |




| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 38.9080 | 2.77 | 15.42 | 18.19 | 40.00 | -21.81 | QP | | | |
| 2 | 126.2486 | 3.82 | 15.02 | 18.84 | 43.50 | -24.66 | QP | | | |
| 3 | 542.6104 | 5.76 | 25.06 | 30.82 | 46.00 | -15.18 | QP | | | |
| 4 | 868.8859 | 5.28 | 28.63 | 33.91 | 46.00 | -12.09 | QP | | | |