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## TEST REPORT

**Report No.: 15040657HKG-002**

**Shenzhen E-Power Electronic Co., Ltd.**

Application  
For  
Certification  
(Original Grant)  
**(FCC ID: 2AEPX71473)**

Transceiver

Prepared and Checked by:

Approved by:

Signed On File  
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Engineer

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Lead Engineer  
Date: July 17, 2015

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### GENERAL INFORMATION

Grantee:	Shenzhen E-Power Electronic Co., Ltd.
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Manufacturer:	Shenzhen E-Power Electronic Co., Ltd.
Manufacturer Address:	No 4/F, Bldg 21, No 3, Liu Xian Rd, District 71, Bao'an, Shenzhen, China.
Brand Name:	HEINEKEN 007
Model:	71473
Type of EUT:	Transceiver
Description of EUT:	Selfie Remote
Serial Number:	N/A
FCC ID:	2AEPX71473
Date of Sample Submitted:	April 13, 2015
Date of Test:	April 13, 2015 to July 10, 2015
Report No.:	15040657HKG-002
Report Date:	July 17, 2015
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

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### SUMMARY OF TEST RESULT

TEST SPECIFICATION	REFERENCE	RESULTS
Radiated Emission Radiated Emission on the Bandedge	15.249, 15.209	Pass
Radiated Emission in Restricted Bands	15.205	Pass

The equipment under test is found to be complying with the following standards:  
FCC Part 15, October 1, 2014 Edition

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

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# INTERTEK TESTING SERVICES

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## INTERTEK TESTING SERVICES

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### 1.0 General Description

#### 1.1 Product Description

The Equipment Under Test (EUT) is a 2.4GHz Bluetooth 3.0 transceiver (Camera Remote Shutter), which is operating at 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The EUT is powered by 3.0 VDC (1 X 3.0V "CR2025" batteries). The EUT has a power ON/OFF switch and a LED. When the EUT is switched ON, the blue LED will be on. The EUT will pair with the relating Smartphone via Bluetooth function and the blue LED will flash when they are successfully connected. Open the Camera application on the Smartphone, the photo will be taken when pressing the button on the EUT.

Antenna Type: Internal, Integral

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

#### 1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

#### 1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2009). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

#### 1.4 Test Facility

The 3m Chamber used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been placed on file with the FCC.

## INTERTEK TESTING SERVICES

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### 2.0 **System Test Configuration**

#### 2.1 Justification

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

The device was powered by 3.0VDC (1 x 3.0V "CR2025" battery).

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

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

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

#### 2.2 EUT Exercising Software

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

#### 2.3 Special Accessories

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

#### 2.4 Measurement Uncertainty

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

#### 2.5 Support Equipment List and Description

N/A.

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### 3.0 Emission Results

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

#### 3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG - AV$$

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

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

$$FS = RR + LF$$

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

Assume a receiver reading of 52.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

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

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$

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### 3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 35.870 MHz

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

### 3.3 Radiated Emission Data

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

Judgment: Passed by 13.5 dB



## INTERTEK TESTING SERVICES

Applicant: Shenzhen E-Power Electronic Co., Ltd.  
Model: 71473  
Worst-Case Operating Mode: Transmitting

Date of Test: July 10, 2015

Table 1  
**Radiated Emissions**  
**Pursuant to FCC Part 15 Section 15.249 Requirement**

### Lowest Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
H	2402.000	93.9	33	29.4	90.3	24	66.3	94.0	-27.7
<b>V</b>	<b>4804.000</b>	<b>51.5</b>	<b>33</b>	<b>34.9</b>	<b>53.4</b>	<b>24</b>	<b>29.4</b>	<b>54.0</b>	<b>-24.6</b>
V	7206.000	47.4	33	37.9	52.3	24	28.3	54.0	-25.7
V	9608.000	46.0	33	40.4	53.4	24	29.4	54.0	-24.6
<b>V</b>	<b>12010.000</b>	<b>46.0</b>	<b>33</b>	<b>40.5</b>	<b>53.5</b>	<b>24</b>	<b>29.5</b>	<b>54.0</b>	<b>-24.5</b>
V	14412.000	47.6	33	40.0	54.6	24	30.6	54.0	-23.4

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
H	2402.000	93.9	33	29.4	90.3	114.0	-23.7
<b>V</b>	<b>4804.000</b>	<b>51.5</b>	<b>33</b>	<b>34.9</b>	<b>53.4</b>	<b>74.0</b>	<b>-20.6</b>
V	7206.000	47.4	33	37.9	52.3	74.0	-21.7
V	9608.000	46.0	33	40.4	53.4	74.0	-20.6
<b>V</b>	<b>12010.000</b>	<b>46.0</b>	<b>33</b>	<b>40.5</b>	<b>53.5</b>	<b>74.0</b>	<b>-20.5</b>
V	14412.000	47.6	33	40.0	54.6	74.0	-19.4

NOTES: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.

## INTERTEK TESTING SERVICES

Applicant: Shenzhen E-Power Electronic Co., Ltd.  
Model: 71473  
Worst-Case Operating Mode: Transmitting

Date of Test: July 10, 2015

Table 2  
**Radiated Emissions**  
**Pursuant to FCC Part 15 Section 15.249 Requirement**

### Middle Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
H	2441.000	94.2	33	29.4	90.6	24	66.6	94.0	-27.4
V	<b>4882.000</b>	<b>51.6</b>	<b>33</b>	<b>34.9</b>	<b>53.5</b>	<b>24</b>	<b>29.5</b>	<b>54.0</b>	<b>-24.5</b>
V	<b>7323.000</b>	<b>47.8</b>	<b>33</b>	<b>37.9</b>	<b>52.7</b>	<b>24</b>	<b>28.7</b>	<b>54.0</b>	<b>-25.3</b>
V	9764.000	47.3	33	40.4	54.7	24	30.7	54.0	-23.3
V	<b>12205.000</b>	<b>46.0</b>	<b>33</b>	<b>40.5</b>	<b>53.5</b>	<b>24</b>	<b>29.5</b>	<b>54.0</b>	<b>-24.5</b>
V	14646.000	48.0	33	38.4	53.4	24	29.4	54.0	-24.6

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
H	2441.000	94.2	33	29.4	90.6	114.0	-23.4
V	<b>4882.000</b>	<b>51.6</b>	<b>33</b>	<b>34.9</b>	<b>53.5</b>	<b>74.0</b>	<b>-20.5</b>
V	<b>7323.000</b>	<b>47.8</b>	<b>33</b>	<b>37.9</b>	<b>52.7</b>	<b>74.0</b>	<b>-21.3</b>
V	9764.000	47.3	33	40.4	54.7	74.0	-19.3
V	<b>12205.000</b>	<b>46.0</b>	<b>33</b>	<b>40.5</b>	<b>53.5</b>	<b>74.0</b>	<b>-20.5</b>
V	14646.000	48.0	33	38.4	53.4	74.0	-20.6

NOTES: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## INTERTEK TESTING SERVICES

Applicant: Shenzhen E-Power Electronic Co., Ltd.  
Model: 71473  
Worst-Case Operating Mode: Transmitting

Date of Test: July 10, 2015

Table 3  
**Radiated Emissions**  
**Pursuant to FCC Part 15 Section 15.249 Requirement**

### Highest Channel

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
H	2480.000	93.9	33	29.4	90.3	24	66.3	94.0	-27.7
V	<b><i>4960.000</i></b>	<b><i>52.5</i></b>	<b><i>33</i></b>	<b><i>34.9</i></b>	<b><i>54.4</i></b>	<b><i>24</i></b>	<b><i>30.4</i></b>	<b><i>54.0</i></b>	<b><i>-23.6</i></b>
V	<b><i>7440.000</i></b>	<b><i>47.7</i></b>	<b><i>33</i></b>	<b><i>37.9</i></b>	<b><i>52.6</i></b>	<b><i>24</i></b>	<b><i>28.6</i></b>	<b><i>54.0</i></b>	<b><i>-25.4</i></b>
V	9920.000	46.3	33	40.4	53.7	24	29.7	54.0	-24.3
V	<b><i>12400.000</i></b>	<b><i>47.0</i></b>	<b><i>33</i></b>	<b><i>40.5</i></b>	<b><i>54.5</i></b>	<b><i>24</i></b>	<b><i>30.5</i></b>	<b><i>54.0</i></b>	<b><i>-23.5</i></b>
V	14880.000	48.2	33	38.4	53.6	24	29.6	54.0	-24.4

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
H	2480.000	93.9	33	29.4	90.3	114.0	-23.7
V	<b><i>4960.000</i></b>	<b><i>52.5</i></b>	<b><i>33</i></b>	<b><i>34.9</i></b>	<b><i>54.4</i></b>	<b><i>74.0</i></b>	<b><i>-19.6</i></b>
V	<b><i>7440.000</i></b>	<b><i>47.7</i></b>	<b><i>33</i></b>	<b><i>37.9</i></b>	<b><i>52.6</i></b>	<b><i>74.0</i></b>	<b><i>-21.4</i></b>
V	9920.000	46.3	33	40.4	53.7	74.0	-20.3
V	<b><i>12400.000</i></b>	<b><i>47.0</i></b>	<b><i>33</i></b>	<b><i>40.5</i></b>	<b><i>54.5</i></b>	<b><i>74.0</i></b>	<b><i>-19.5</i></b>
V	14880.000	48.2	33	38.4	53.6	74.0	-20.4

NOTES: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.

## INTERTEK TESTING SERVICES

Applicant: Shenzhen E-Power Electronic Co., Ltd.  
Model: 71473  
Worst-Case Operating Mode: Power On (Operate)

Date of Test: July 10, 2015

Table 4  
**Radiated Emissions**  
**Pursuant to FCC Part 15 Section 15.209 Requirement**

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	35.870	32.5	16	10.0	26.5	40.0	-13.5
V	47.098	30.9	16	11.0	25.9	40.0	-14.1
<b>H</b>	<b>125.788</b>	<b>29.3</b>	<b>16</b>	<b>14.0</b>	<b>27.3</b>	<b>43.5</b>	<b>-16.2</b>
<b>H</b>	<b>165.830</b>	<b>27.9</b>	<b>16</b>	<b>17.0</b>	<b>28.9</b>	<b>43.5</b>	<b>-14.6</b>
H	197.354	27.2	16	16.0	27.2	43.5	-16.3
<b>H</b>	<b>255.870</b>	<b>23.7</b>	<b>16</b>	<b>21.0</b>	<b>28.7</b>	<b>46.0</b>	<b>-17.3</b>

NOTES: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## INTERTEK TESTING SERVICES

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### 4.0 **Equipment Photographs**

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

### 5.0 **Product Labelling**

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

### 6.0 **Technical Specifications**

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

### 7.0 **Instruction Manual**

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

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

## INTERTEK TESTING SERVICES

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### 8.0 **Miscellaneous Information**

The miscellaneous information includes details of the test procedure and measured bandwidth / calculation of factor such as pulse desensitization and averaging factor (calculation and timing diagram).

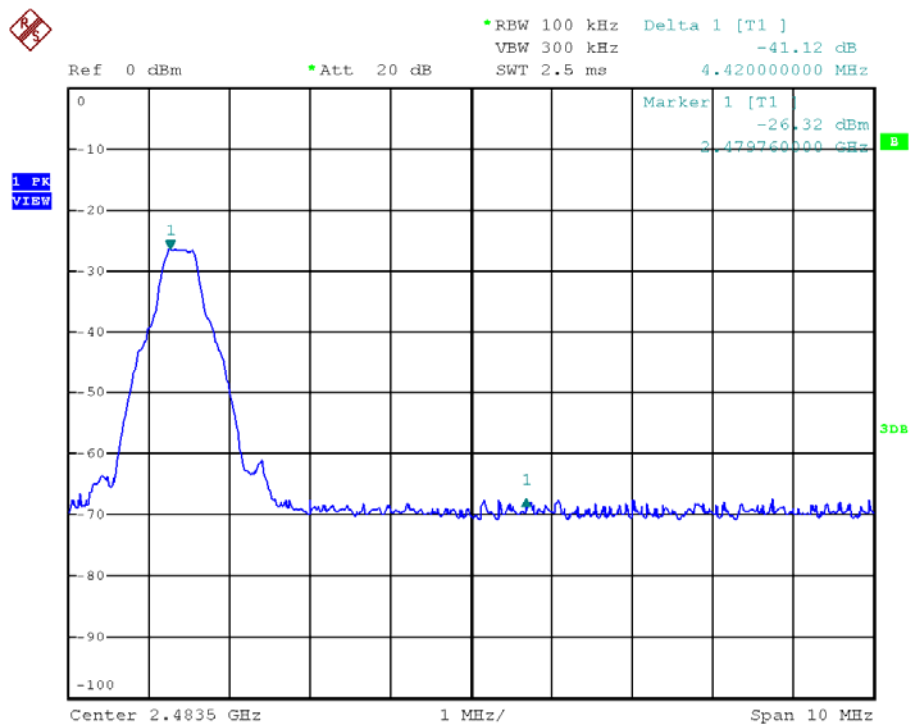
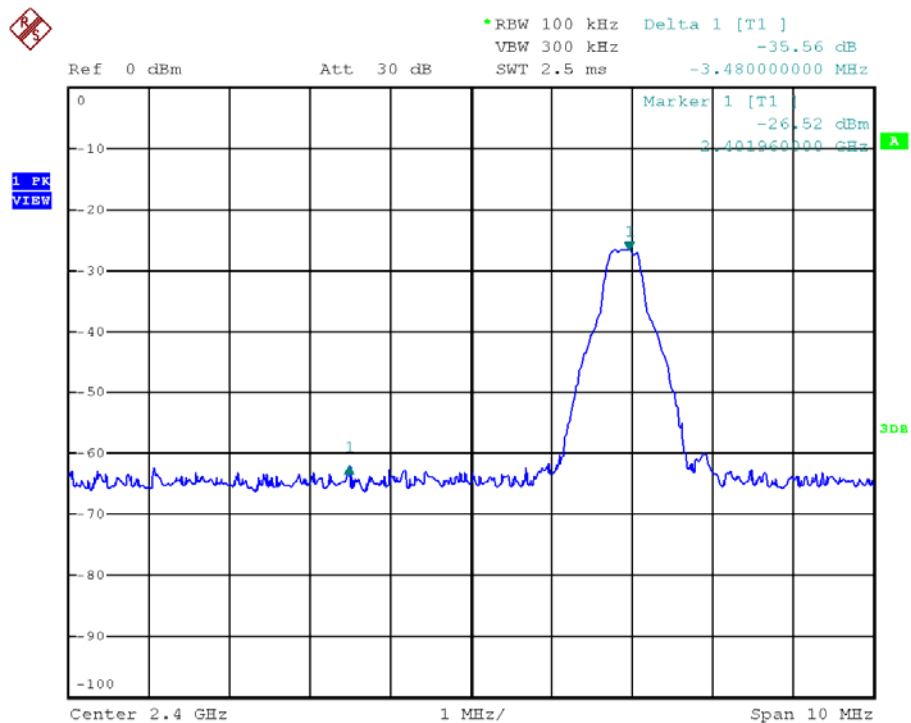
#### 8.1 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz to 2483.5MHz). In case of the fundamental emissions are within two standard bandwidths from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.4 (2009) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

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## Peak Measurement



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### Peak Measurement

Bandedge compliance is determined by applying marker-delta method, i.e. (Bandedge Plot).

#### Lower bandedge

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the plot

$$=90.3 \text{ dB}\mu\text{V/m} - 35.6 \text{ dB}$$

$$=54.7 \text{ dB}\mu\text{V/m}$$

Average Resultant field strength = Fundamental emissions (average value) – delta from the plot

$$=66.3 \text{ dB}\mu\text{V/m} - 35.6 \text{ dB}$$

$$=30.7 \text{ dB}\mu\text{V/m}$$

#### Upper bandedge

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the plot

$$=90.3 \text{ dB}\mu\text{V/m} - 41.1 \text{ dB}$$

$$=49.2 \text{ dB}\mu\text{V/m}$$

Average Resultant field strength = Fundamental emissions (average value) – delta from the plot

$$=66.3 \text{ dB}\mu\text{V/m} - 41.1 \text{ dB}$$

$$=25.2 \text{ dB}\mu\text{V/m}$$

The resultant field strength meets the general radiated emission limit in Section 15.209, which does not exceed 74 dB $\mu$ V/m (Peak Limit) and 54 dB $\mu$ V/m (Average Limit).



## INTERTEK TESTING SERVICES

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### 8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (Teff) is approximately 0.17ms for a digital “1” bit which illustrated on technical specification, with a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

### 8.3 Calculation of Average Factor

Based on the Bluetooth Specification Version 3.0 + EDR, the transmitter ON time for each timeslot of Bluetooth is 625 $\mu$ s. DH5 has the maximum duty cycle, which consists of 5 continuous Tx slots and 1 Rx slot. Therefore one hopset take  $(5+1) \times 625\mu\text{s} = 3.75\text{ms}$ . For one period for a pseudo-random hopping through at least 20 RF channels in adaptive mode (worst case), it take:  $20 \times 3.75\text{ms} = 75\text{ms}$ .

The dwell time for DH5 is  $5 \times 625\mu\text{s} = 3.125\text{ms}$ .

For the worst case calculation, there are two transmissions might occur in 100ms. Therefore,

$$\begin{aligned}\text{Duty Cycle (DC)} &= \text{Maximum On time in 100ms}/100\text{ms} \\ &= 3.125\text{ms} \times 2/100\text{ms} \\ &= 0.0625\end{aligned}$$

$$\begin{aligned}\text{Average Factor (AF) of Bluetooth in dB} &= 20 \log_{10} (0.0625) \\ &= -24\text{dB}\end{aligned}$$

## INTERTEK TESTING SERVICES

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### 8.4 Emissions Test Procedures

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

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

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

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### 8.4 Emissions Test Procedures (cont'd)

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

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

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

The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 1 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

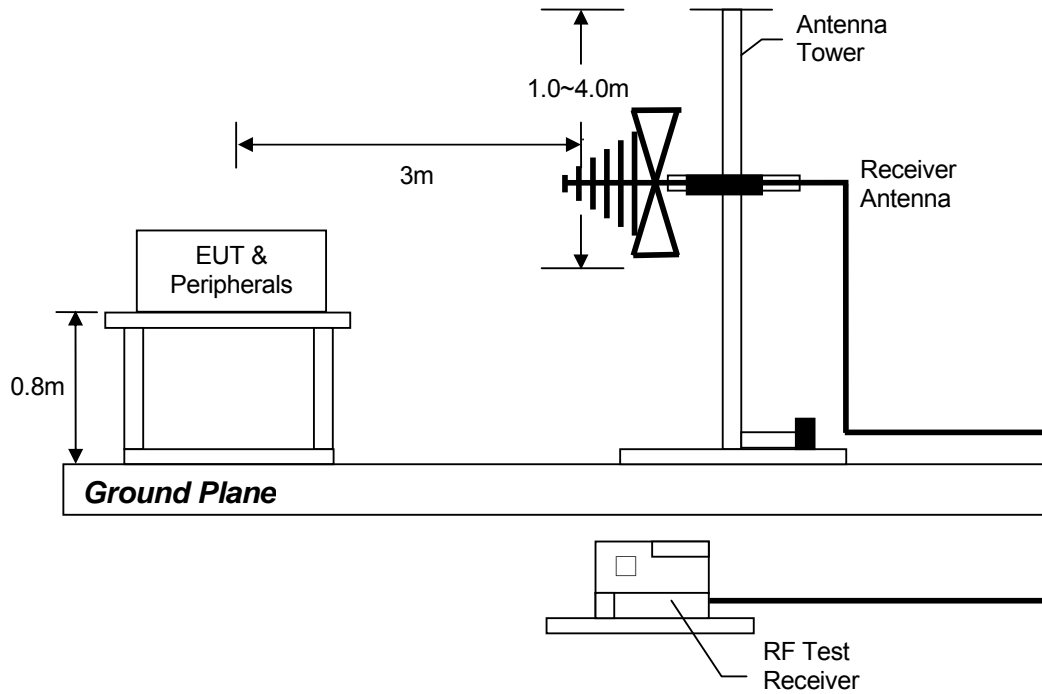
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## INTERTEK TESTING SERVICES

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### 8.4.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



## INTERTEK TESTING SERVICES

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### 9.0 Equipment List

#### 1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer
Registration No.	EW-3095	EW-2249
Manufacturer	R&S	R&S
Model No.	ESCI	FSP30
Calibration Date	Oct. 16, 2014	Nov 19, 2014
Calibration Due Date	Oct. 16, 2015	Nov 19, 2015

Equipment	BiConiLog Antenna	Double Ridged Guide Antenna
Registration No.	EW-3061	EW-1133
Manufacturer	EMCO	EMCO
Model No.	3412E	3115
Calibration Date	Jul. 17, 2014	Apr. 30, 2014
Calibration Due Date	Jul. 17, 2015	Oct. 30, 2015

#### 2) Bandedge Measurement

Equipment	Spectrum Analyzer
Registration No.	EW-2249
Manufacturer	R&S
Model No.	FSP30
Calibration Date	Nov. 19, 2014
Calibration Due Date	Nov. 19, 2015

END OF TEST REPORT