

SHENZHEN HAISHITONG  
ELECTRONIC CO.,LTD

# TEST REPORT

**SCOPE OF WORK**

FCC TESTING—KR3611

**REPORT NUMBER**

190227033SZN-001

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Intertek Report No.: 190227033SZN-001

**SHENZHEN HAISHITONG ELECTRONIC CO.,LTD**Application  
For  
Certification**FCC ID: 2ATIA-KR3611****Wireless touch Keyboard****Model: KR3611****Brand Name: N/A****2.4GHz Transceiver**

Report No.: 190227033SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-17]

**Prepared and Checked by:****Approved by:****Leo Li**  
**Project Engineer**

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**Peter Kang**  
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**Date: 24 May 2019**

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## LIST OF EXHIBITS

### *INTRODUCTION*

<i>EXHIBIT 1:</i>	Summary of Tests
<i>EXHIBIT 2:</i>	General Description
<i>EXHIBIT 3:</i>	System Test Configuration
<i>EXHIBIT 4:</i>	Measurement Results
<i>EXHIBIT 5:</i>	Equipment Photographs
<i>EXHIBIT 6:</i>	Product Labeling
<i>EXHIBIT 7:</i>	Technical Specifications
<i>EXHIBIT 8:</i>	Instruction Manual
<i>EXHIBIT 9:</i>	Confidentiality Request
<i>EXHIBIT 10:</i>	Miscellaneous Information
<i>EXHIBIT 11:</i>	Test Equipment List

## MEASUREMENT/TECHNICAL REPORT

SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Model: KR3611

FCC ID: 2ATIA-KR3611

This report concerns (check one) Original Grant ☒ Class II Change ☐

Equipment Type: DTS - Part 15 Digital Transmission Systems (Bluetooth BLE transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes ☐ No ☒

If yes, defer until :                       
date

Company Name agrees to notify the Commission by:                       
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes ☐ No ☒

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-1-17] Edition] provision.

Report prepared by:

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## Table of Contents

<b>1.0</b>	<b><u>Summary of Test results</u></b>	<b>7</b>
<b>2.0</b>	<b><u>General Description</u></b>	<b>9</b>
2.1	Product Description	9
2.2	Related Submittal(s) Grants	9
2.3	Test Methodology	9
2.4	Test Facility	9
<b>3.0</b>	<b><u>System Test Configuration</u></b>	<b>11</b>
3.1	Justification	11
3.2	EUT Exercising Software	11
3.3	Special Accessories	11
3.4	Measurement Uncertainty	12
3.5	Equipment Modification	12
3.6	Support Equipment List and Description	12
<b>4.0</b>	<b><u>Measurement Results</u></b>	<b>14</b>
4.1	Maximum Conducted Output Power at Antenna Terminals	14
4.2	Minimum 6 dB RF Bandwidth	15
4.3	Maximum Power Density Reading	17
4.4	Out of Band Conducted Emissions	19
4.5	Out of Band Radiated Emissions	25
4.6	Transmitter Radiated Emissions in Restricted Bands	26
4.7	Field Strength Calculation	27
4.8	Radiated Spurious Emission	28
4.9	Radiated Emissions from Digital Section of Transceiver	33
4.10	Transmitter Duty Cycle Calculation and Measurements	34
<b>5.0</b>	<b><u>Equipment Photographs</u></b>	<b>36</b>
<b>6.0</b>	<b><u>Product Labelling</u></b>	<b>38</b>
<b>7.0</b>	<b><u>Technical Specifications</u></b>	<b>40</b>
<b>8.0</b>	<b><u>Instruction Manual</u></b>	<b>42</b>
<b>9.0</b>	<b><u>Confidentiality Request</u></b>	<b>44</b>
<b>10.0</b>	<b><u>Discussion of Pulse Desensitization</u></b>	<b>46</b>
<b>11.0</b>	<b><u>Test Equipment List</u></b>	<b>48</b>

### List of attached file

Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidentiality Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf

## **EXHIBIT 1**

### **SUMMARY OF TEST RESULTS**

## 1.0 Summary of Test results

### Wireless touch Keyboard

**Model: KR3611**

**FCC ID: 2ATIA-KR3611**

TEST ITEM	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d)	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.



## **EXHIBIT 2**

### **GENERAL DESCRIPTION**

## 2.0 General Description

### 2.1 Product Description

The Equipment Under Test (EUT) is a Wireless touch Keyboard with Bluetooth and 2.4G SRD function operating at 2402-2480MHz while Bluetooth and 2.4G SRD can't be used at the same time. The EUT can be powered by DC 3.0V by AAA battery. For more detailed features description, please refer to the user's manual.

Antenna Type: Integral antenna  
Modulation Type: GFSK  
Antenna Gain: 0dBi Max  
Bluetooth Version: 5.0 BLE

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

### 2.2 Related Submittal(s) Grants

This is an application for certification of DTS- Part 15 Digital Transmission Systems (Bluetooth 5.0 BLE transmitter portion).

For the 2.4GHz SRD function was tested and demonstrated in report 190227033SZN-002.

### 2.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10: 2013 and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the 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. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

### 2.4 Test Facility

The Semi-Anechoic chamber used to collect the radiated data is **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: CN1188).

## **EXHIBIT 3**

### **SYSTEM TEST CONFIGURATION**

### 3.0 System Test Configuration

#### 3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. The EUT was powered by DC 3.0V by AAA battery during the test, only the worst data was reported in this report.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m up to 1GHz and 1.5 m above 1GHz. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The EUT was operated standalone and placed in the central of the turntable.

Radiated emission measurement were performed 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 to 40 GHz, whichever is lower.

#### 3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Test Software: nRFgo studio

#### 3.3 Special Accessories

N/A.

### 3.4 Measurement Uncertainty

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

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

### 3.5 Equipment Modification

Any modifications installed previous to testing by SHENZHEN HAISHITONG ELECTRONIC CO.,LTD will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

### 3.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Model No.
Mobile Phone	SAMSUNG	S7

## **EXHIBIT 4**

### **MEASUREMENT RESULTS**

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

#### 4.0 Measurement Results

##### 4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter has a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 0dBi <6dBi, So maximum allowed Transmitter output is 30dBm (1000mW).

Frequency (MHz)	Output in dBm (Peak reading)	Output in mWatt
Low Channel: 2402	-2.93	0.51
Middle Channel: 2440	-2.94	0.51
High Channel: 2480	-2.80	0.52

Cable loss: 0.5 dB    External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT max. output level = -2.80dBm

EUT max. radiated output level = -2.80dBm + 0dBi = -2.80dBm

For RF Exposure, the information is saved with filename: RF exposure.pdf.

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

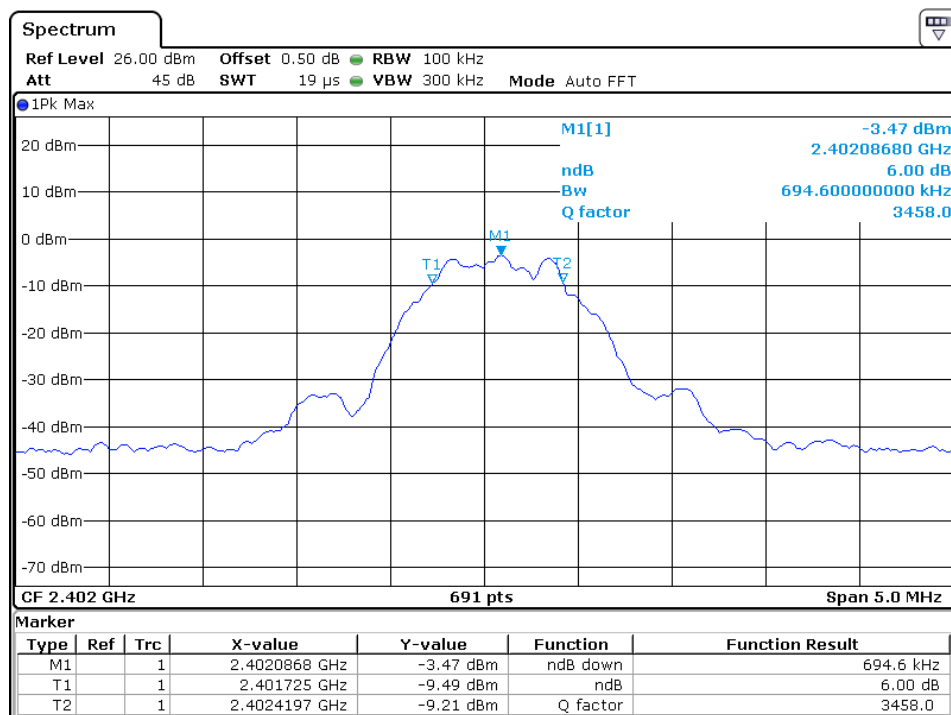
## 4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a) (2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074 D01 v05r02. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

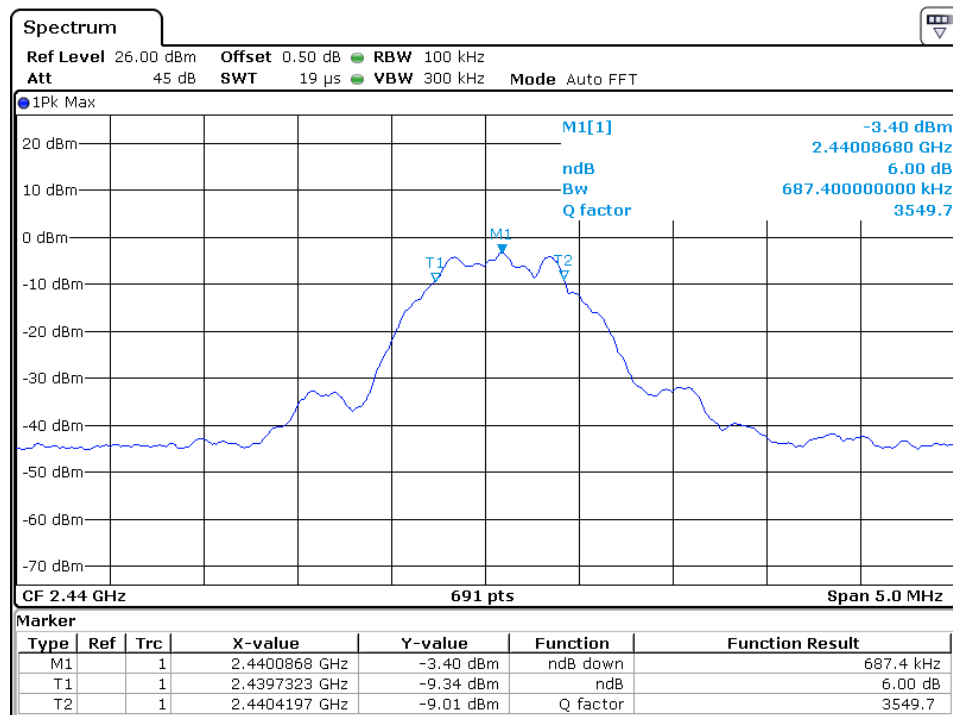
Frequency (MHz)	6 dB Bandwidth (KHz)
2402	694.6
2440	687.4
2480	694.6

The test plots are attached as below.

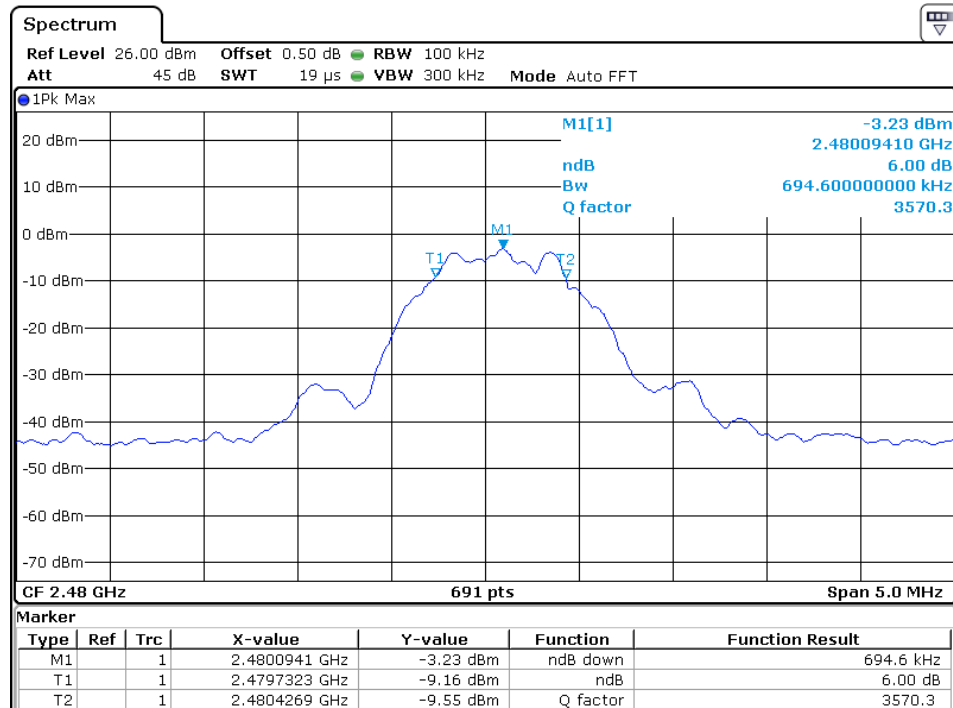


Date: 23 MAY 2019 10:53:54





Date: 23 MAY 2019 11:29:03



Date: 23 MAY 2019 11:41:30

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

#### 4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074 D01 v05r01.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

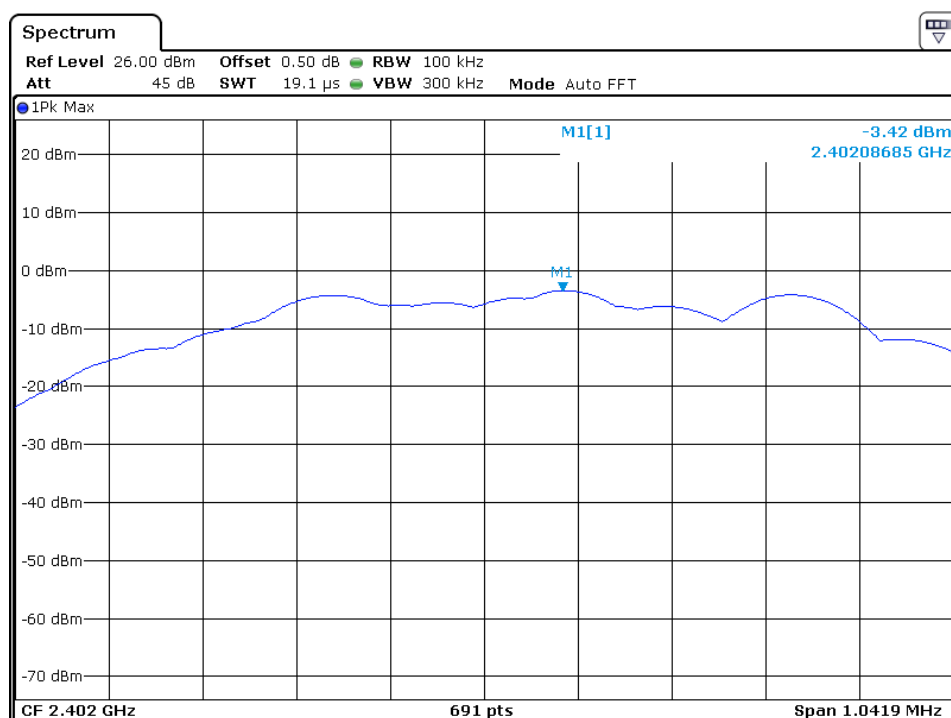
For antennas with gains of 0dBi <6dBi, So the limit of Power Density is 8dBm/3 kHz.

Frequency (MHz)	Power Density with RBW 100KHz
2402	-3.42
2440	-3.40
2480	-3.22

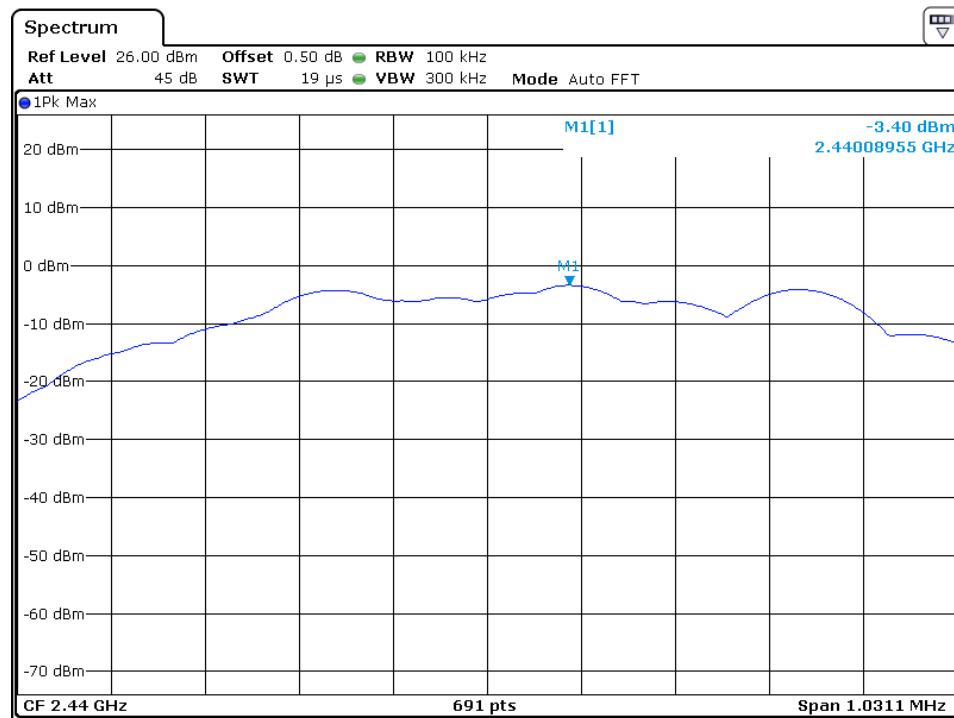
Cable loss: 0.5 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

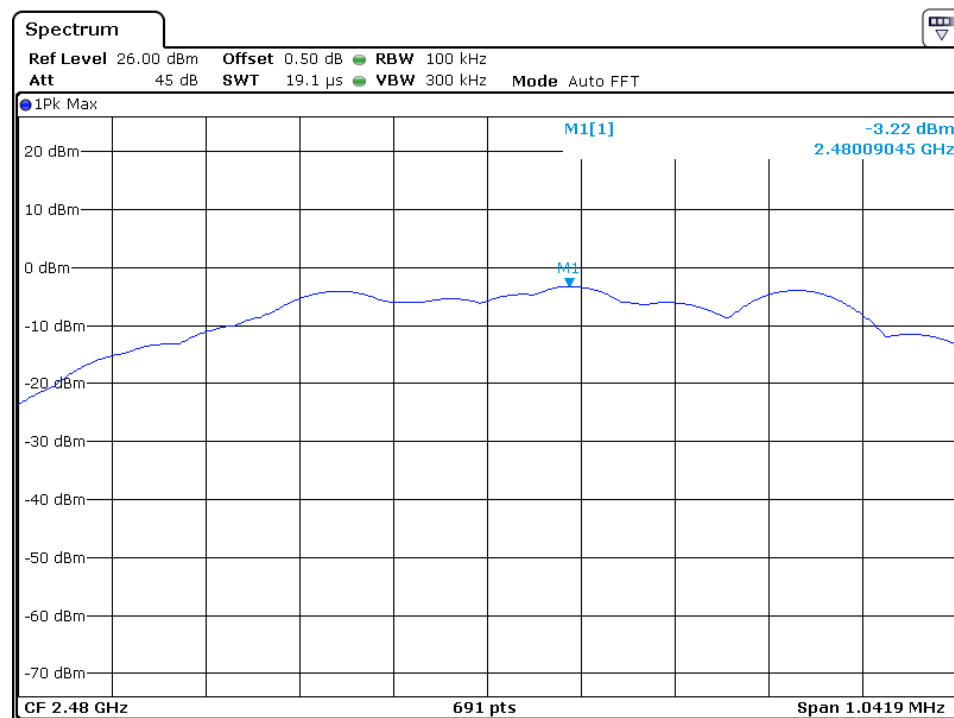
The test plots are attached as below.



Date: 23 MAY 2019 11:04:54



Date: 23 MAY 2019 11:34:03



Date: 23 MAY 2019 11:44:42

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

#### 4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. The Measurement Procedure was set according to the FCC KDB 558074 D01 v05r02.

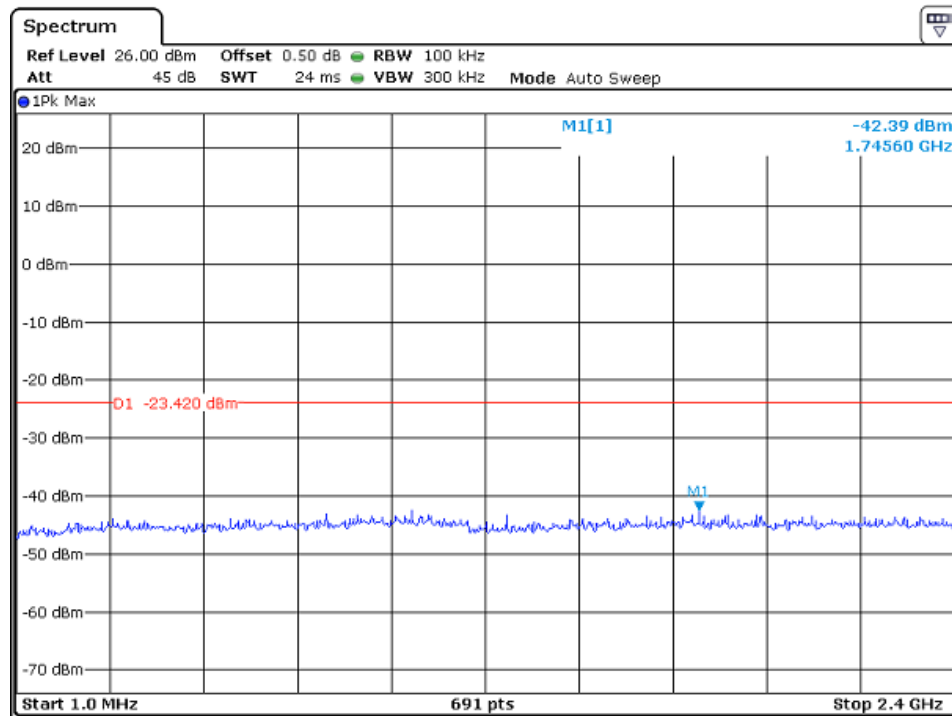
All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

Refer to the attached test plots for out of band conducted emissions data.

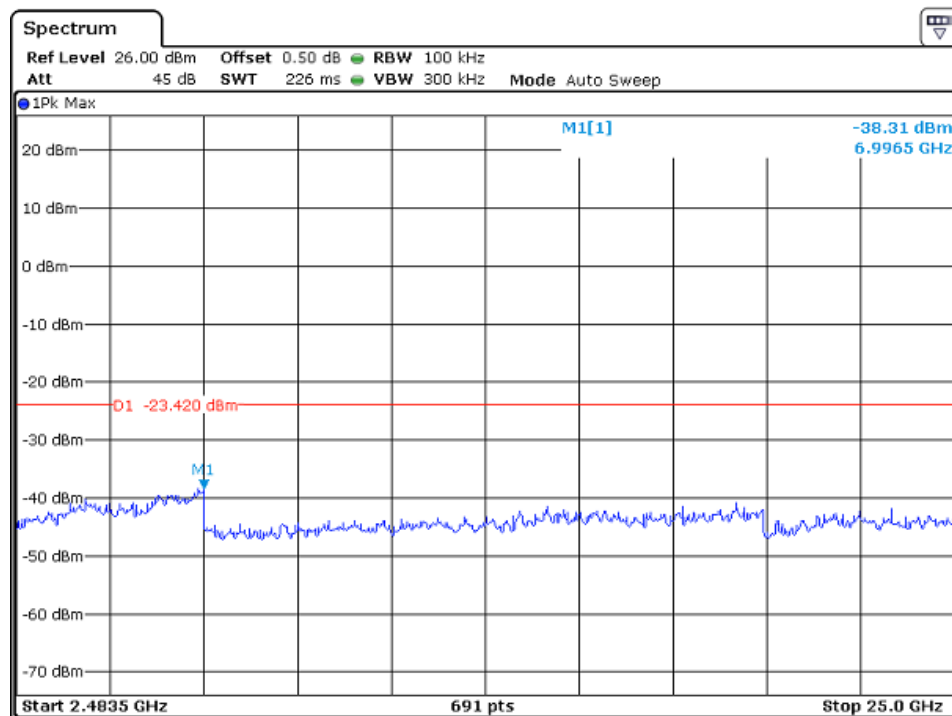
The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

The test plots are attached as below.

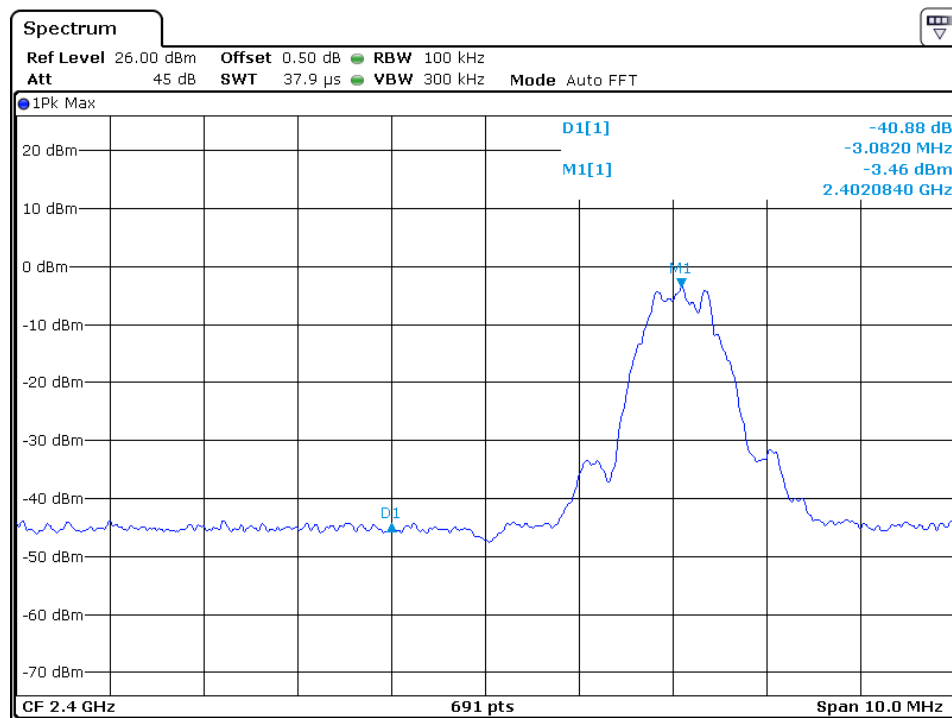
Channel 0 (2402MHz) Reference Level: -3.42dBm



Date: 23 MAY 2019 11:14:11

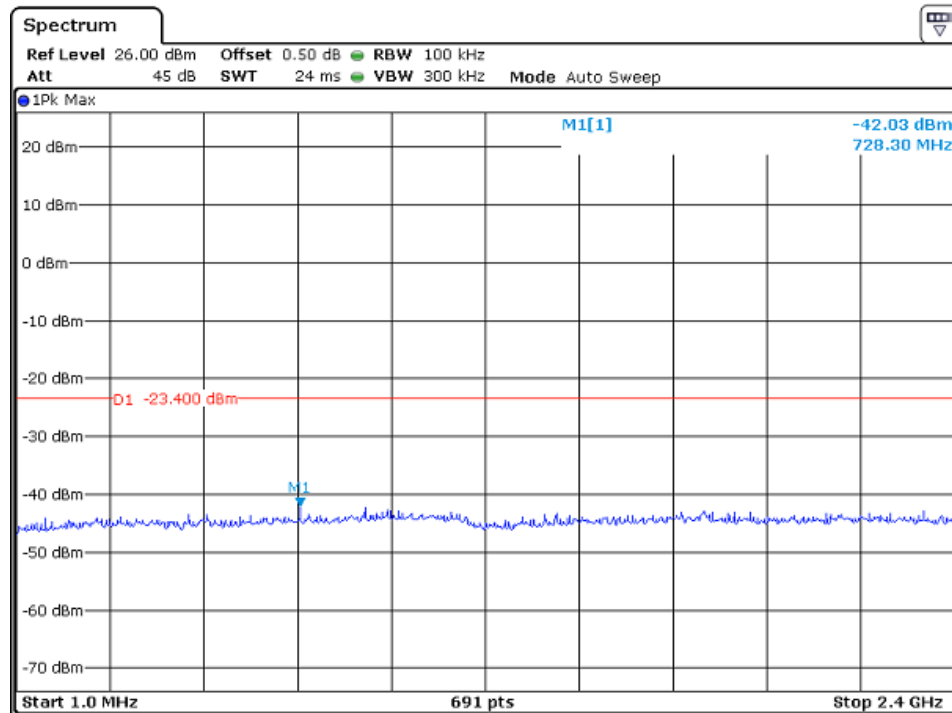


Date: 23 MAY 2019 11:15:39

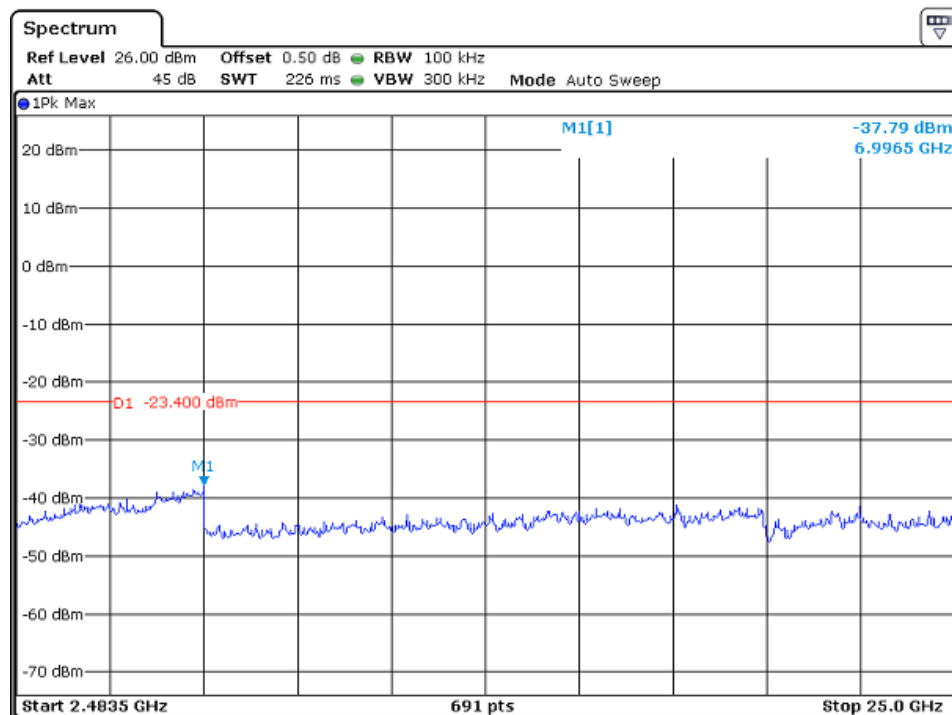


Date: 23 MAY 2019 11:20:05

Channel 19 (2440MHz) Reference Level: -3.40dBm

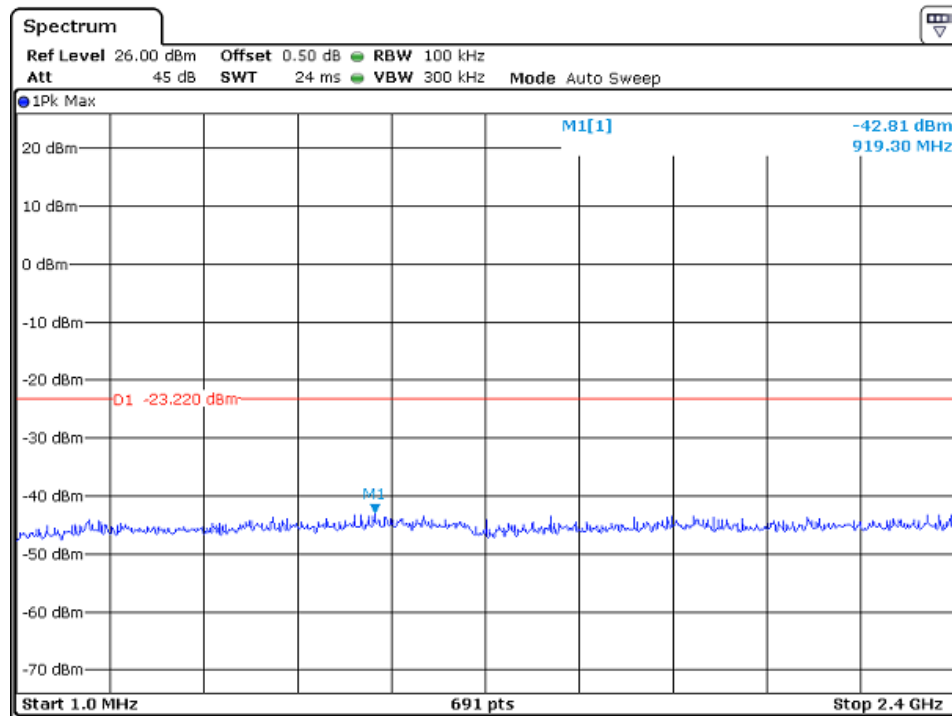


Date: 23 MAY 2019 11:36:50

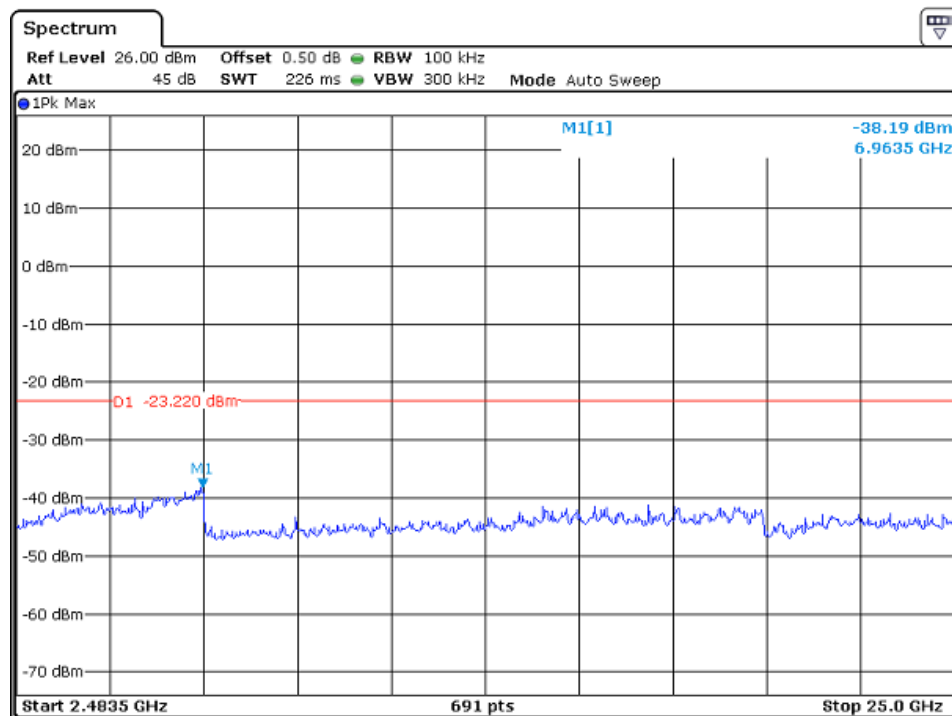


Date: 23 MAY 2019 11:37:40

Channel 39 (2480MHz) Reference Level: -3.22dBm

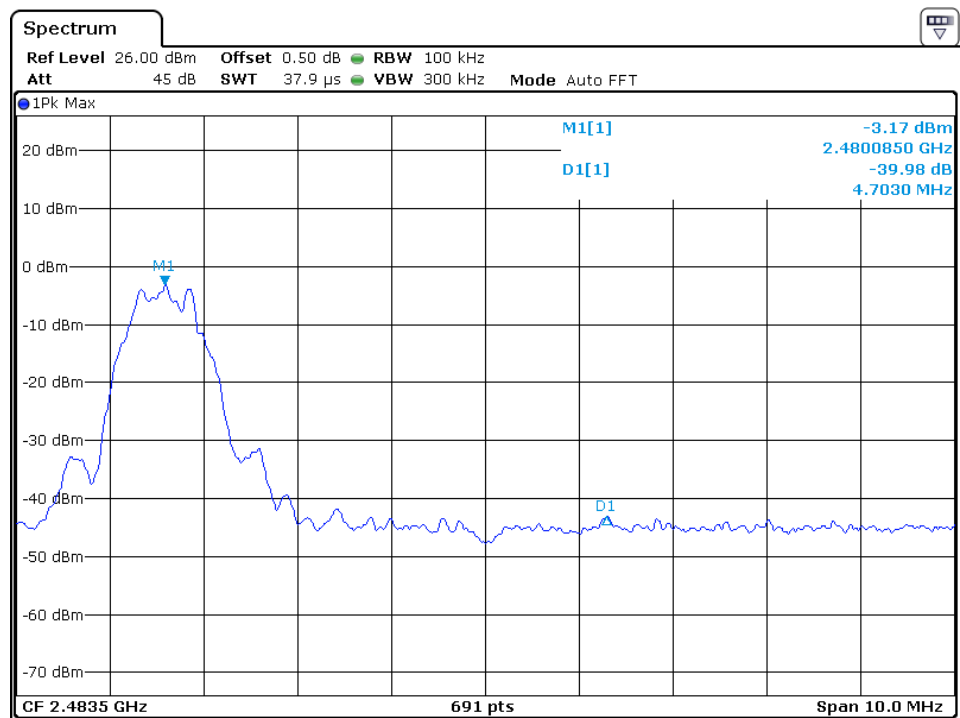


Date: 23 MAY 2019 11:45:41



Date: 23 MAY 2019 11:46:35





Date: 23 MAY 2019 11:49:30

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

- ☒ Not required, since all emissions are more than 20dB below fundamental
- ☐ See attached data sheet

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

#### 4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

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. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

#### 4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

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

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  
                      PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

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

##### Example

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB} \\ CF &= 1.6 \text{ dB} \\ AG &= 29.0 \text{ dB} \\ PD &= 0 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m} \end{aligned}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

#### 4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission  
at 2389.590MHz  
is passed by 6.5dB margin.

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

**TEST PERSONNEL:***Sign on file*

Leo Li, Project Engineer  
*Typed/Printed Name*

May 23, 2019  
*Date*

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

Worst Case Operating Mode:

BT Transmitting

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	30.970	23.1	20.0	17.4	20.5	40.0	-19.5
Horizontal	254.070	33.2	20.0	12.9	26.1	46.0	-19.9
Horizontal	696.875	28.4	20.0	23.2	31.6	46.0	-14.4
Vertical	168.225	32.1	20.0	9.7	21.8	43.5	-21.7
Vertical	313.240	33.9	20.0	14.3	28.2	46.0	-17.8
Vertical	834.130	30.8	20.0	23.1	33.9	46.0	-12.1

- NOTES:
1. Quasi-Peak detector is used for frequency below 1GHz.
  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 value in the margin column shows emission below limit.
  4. All emissions are below the QP limit.

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

Worst Case Operating Mode:

Transmitting (2402MHz)

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4804.000	46.4	36.3	33.4	43.5	74.0	-30.5
Horizontal	*2389.590	68.7	36.4	27.5	59.8	74.0	-14.2

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4804.000	36.8	36.3	33.4	33.9	54.0	-20.1
Horizontal	*2389.590	56.4	36.4	27.5	47.5	54.0	-6.5

- NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and c RBW=1MHz/VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance 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 radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

Worst Case Operating Mode:

Transmitting (2440MHz)

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4880.000	48.4	36.3	33.5	45.6	74.0	-28.4
Horizontal	*7320.000	49.5	36.3	37.7	50.9	74.0	-23.1

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4880.000	38.1	36.3	33.5	35.3	54.0	-18.7
Horizontal	*7320.000	40.4	36.3	37.7	41.8	54.0	-12.2

- NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance 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 radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.



Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

Worst Case Operating Mode:

Transmitting (2480MHz)

### Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4960.000	47.9	36.3	33.5	45.1	74.0	-28.9
Horizontal	*7440.000	46.5	36.3	37.8	48.0	74.0	-26.0

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	*4960.000	41.4	36.3	33.5	38.6	54.0	-15.4
Horizontal	*7440.000	40.7	36.3	37.8	42.2	54.0	-11.8

- NOTES: 1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance 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 radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna used for the emission over 1000MHz.
- \* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

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Date of Test: May 23, 2019

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4.9 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

☐ Not required - No digital part

☐ Test results are attached

☒ Included in the separated report.

Applicant: SHENZHEN HAISHITONG ELECTRONIC CO.,LTD

Date of Test: May 23, 2019

Model: KR3611

#### 4.10 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

## **EXHIBIT 5**

### **EQUIPMENT PHOTOGRAPHS**

## 5.0 Equipment Photographs

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

## **EXHIBIT 6**

### **PRODUCT LABELLING**

## 6.0 Product Labeling

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

## **EXHIBIT 7**

### **TECHNICAL SPECIFICATIONS**



## 7.0 Technical Specifications

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

## **EXHIBIT 8**

### **INSTRUCTION MANUAL**

## 8.0 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.

## **EXHIBIT 9**

### **CONFIDENTIALITY REQUEST**

## 9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

## **EXHIBIT 10**

### **MISCELLANEOUS INFORMATION**

## 10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

## **EXHIBIT 11**

### **TEST EQUIPMENT LIST**



## 11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	5-Jun-2018	5-Jun-2019
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	5-Jun-2018	5-Jun-2019
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	25-May-2018	25-May-2019
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	5-Jun-2018	5-Jun-2019
SZ061-03	Biconilog Antenna	ETS	3142C	00078828	16-Oct-2018	16-Oct-2019
SZ061-08	Horn Antenna	ETS	3115	00092346	14-Sep-2018	14-Sep-2019
SZ061-15	Double-Ridged Waveguide Horn Antenna	ETS	3116C-PA	00224718	25-Oct-2018	25-Oct-2019
SZ056-03	Spectrum Analyzer	R&S	FSP30	101148	05-Jun-2018	05-Jun-2019
SZ185-01	EMI Receiver	R & S	ESCI	100547	4-Jan-2019	4-Jan-2020
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	15-Jan-2019	15-Jan-2020
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	15-Dec-2018	15-Dec-2020
SZ062-02	RF Cable	RADIAL	RG 213U	--	05-Jan-2018	05-Jul-2019
SZ062-05	RF Cable	RADIAL	0.04-26.5GHz	--	5-Feb-2019	5-Sep-2019
SZ062-12	RF Cable	RADIAL	0.04-26.5GHz	--	5-Feb-2019	5-Sep-2019

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