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**ISO/IEC17025 Accredited Lab.**

Report No: FCC1109134-02

File reference No: 2011-12-29

Applicant: Guangzhou Sunday Electronics Co., Ltd.

Product: Wireless Keyboard With Touchpad Receiver

Model No: S-KW252TG

Brand Name: Sunday

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: Dec 29, 2011

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD**

East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District,  
Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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## Test Report Conclusion

### Content

<b>1.0</b>	<b>General Details</b>	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	4
1.6	Test Uncertainty	5
1.7	Test By	5
<b>2.0</b>	<b>List of Measurement Equipment</b>	5
<b>3.0</b>	<b>Technical Details</b>	6
3.1	Summary of Test Results	6
3.2	Test Standards	6
<b>4.0</b>	<b>EUT Modification</b>	6
<b>5.0</b>	<b>Power Line Conducted Emission Test</b>	7
5.1	Schematics of the Test	7
5.2	Test Method and Test Procedure	7
5.3	Configuration of the EUT	7
5.4	EUT Operating Condition	8
5.5	Conducted Emission Limit	8
5.6	Test Result	8
<b>6.0</b>	<b>Radiated Emission test</b>	11
6.1	Test Method and Test Procedure	11
6.2	Configuration of the EUT	11
6.3	EUT Operation Condition	11
6.4	Radiated Emission Limit	12
6.5	Test Result	13
<b>7.0</b>	<b>Band Edge</b>	21
7.1	Test Method and Test Procedure	21
7.2	Radiated Test Setup	21
7.3	Configuration of the EUT	21
7.4	EUT Operating Condition	21
7.5	Band Edge Limit	21
7.6	Band Edge Test Result	22
<b>8.0</b>	<b>Antenna Requirement</b>	26
<b>9.0</b>	<b>20dB bandwidth measurement</b>	27
<b>10.0</b>	<b>FCC ID Label</b>	30
<b>11.0</b>	<b>Photo of Test Setup and EUT View</b>	31

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-01  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Guangzhou Sunday Electronics Co., Ltd.  
Address: No.236-238, Minsheng Road, Lanhe Town, Panyu District, Guangzhou, China  
Telephone: 020-84928933  
Fax: 020-84928823

### 1.3 Description of EUT

Product: Wireless Keyboard With Touchpad Receiver  
Manufacturer: Guangzhou Sunday Electronics Co., Ltd.  
Address: No.236-238, Minsheng Road, Lanhe Town, Panyu District, Guangzhou, China  
Brand Name: Sunday  
Model Number: S-KW252TG  
Additional Model Name: S-KW1xxxx,S-KW6xxxx (the “x” means one discretionary character of A/a – Z/z or one Arabic number of 0 – 9)  
Additional Trade Name: N/A  
Rating: DC5.0V, Powered by PC  
Modulation Type: GFSK  
Operation Frequency: 2402-2480MHz  
Antenna Designation: Printed antenna, which is built-in, designed as an indispensable part of the EUT.  
Antenna gain is 2.5dBi

### 1.4 Submitted Sample

1 Sample

### 1.5 Test Duration: 2011-12-08 to 2011-12-27

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2011-04-26	2012-04-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2011-04-26	2012-04-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2011-04-26	2012-04-25
Ultra Broadband ANT	Schwarebeck	VULB9163	9163/340	2011-04-26	2012-04-25
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2011-04-26	2012-04-25
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2011-04-26	2012-04-25
Power meter	Anritsu	ML2487A	6K00003613	2011-04-26	2012-04-25
Power sensor	Anritsu	MA2491A	32263	2011-04-26	2012-04-25
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2011-04-26	2012-04-25
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2011-04-26	2012-04-25
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2011-04-26	2012-04-25

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### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit</b>	<b>Field Strength of Fundamental</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.209</b>	<b>Radiated Emission Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>PASS</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.249**

#### 4.0 EUT Modification

**No modification by Shenzhen Timeway Technology Consulting Co., Ltd**

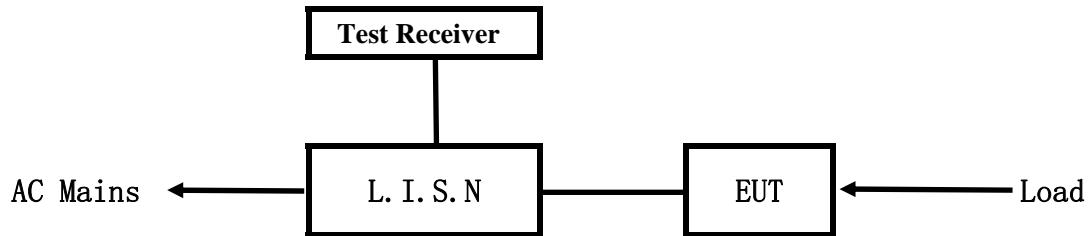
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test



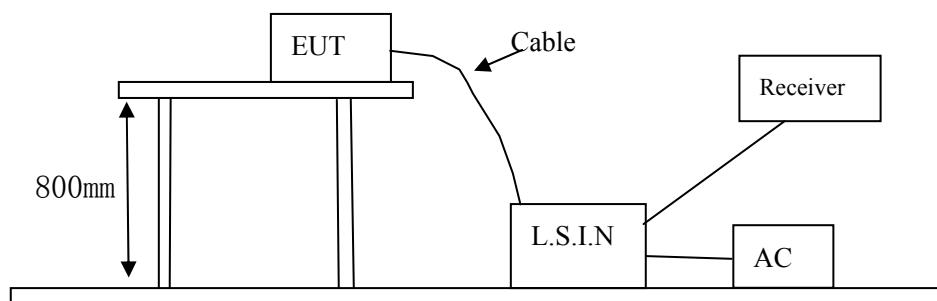
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Keyboard With Touchpad Receiver	Guangzhou Sunday Electronics Co., Ltd.	S-KW252TG	XQLS-KW252TG-D

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Notebook	IBM	R4	FCC DOC	--
Mouse	DELL	--	FCC DOC	Data cable of 1.5m length unshielded
Earphone	--	--	FCC VOC	Data cable of 1.5m length unshielded

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

A Setup the EUT and simulators as shown on follow  
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency(MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

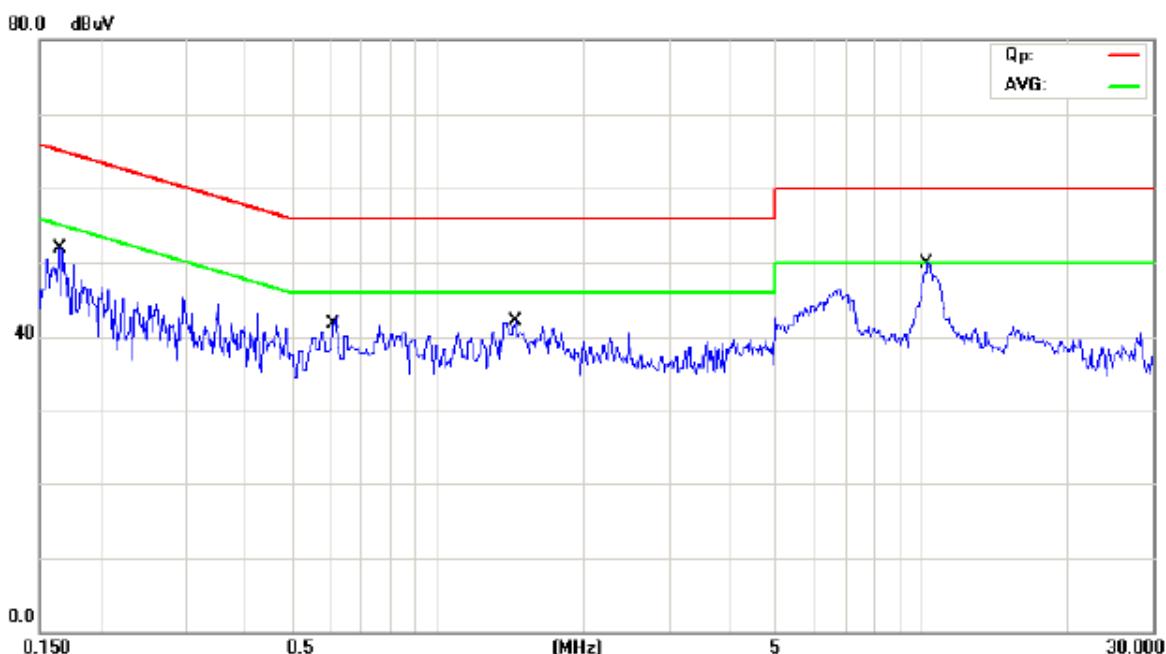
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Tx Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dB $\mu$ V)		Limit(dB $\mu$ V)	
		Quasi-peak	Average	Quasi-peak	Average
10.236	Live	49.82	34.02	60.00	50.00
0.164	Live	51.91	35.61	65.22	55.22
0.612	Live	42.66	32.96	56.00	46.00
1.445	Live	42.10	32.40	56.00	46.00

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

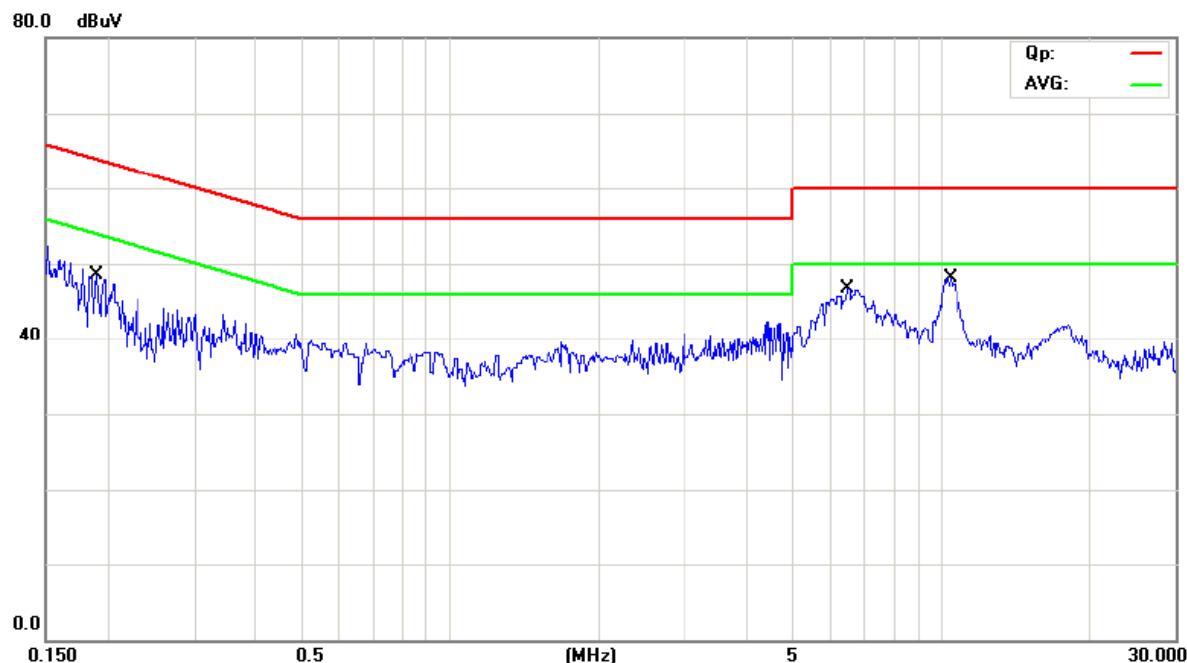
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Tx Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dB $\mu$ V)		Limit(dB $\mu$ V)	
		Quasi-peak	Average	Quasi-peak	Average
10.464	Neutral	50.03	35.73	60.00	50.00
0.190	Neutral	48.57	37.37	64.03	54.03
6.500	Neutral	46.62	34.32	60.00	50.00

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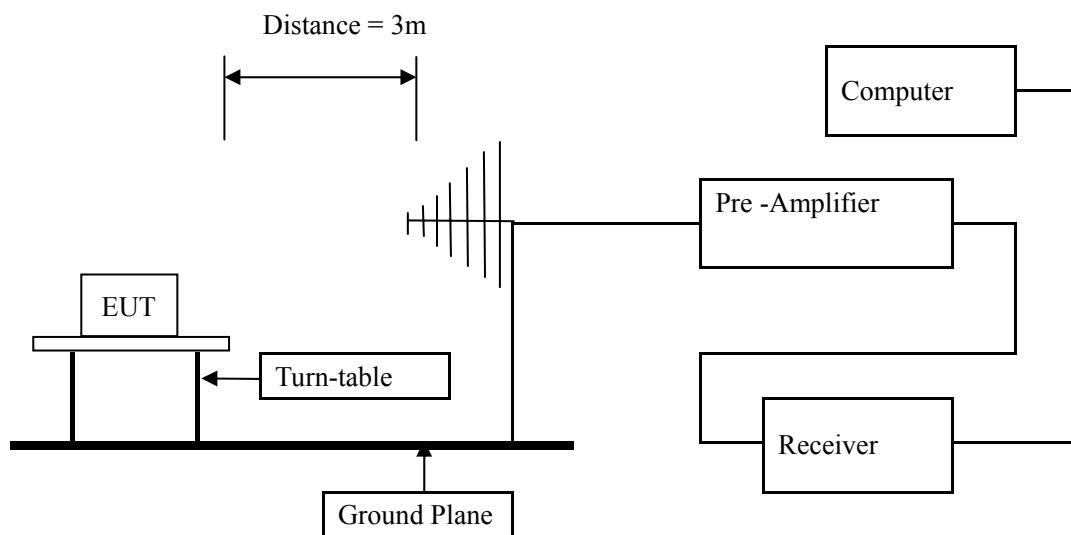
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## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization : Vertical polarization and Horizontal polarization.

### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

#### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	mV/m	dBuV/m		uV/m	dBuV/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note: 1. RF Field Strength (dBuV) =  $20 \log \text{RF Voltage (uV)}$   
2. 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. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

#### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) =  $20 \log \text{RF Voltage (uV)}$   
2. In the Above Table, the tighter limit applies at the band edges.  
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT  
4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK and AV detector.

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## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Product:	Wireless Keyboard With Touchpad Receiver	Test Mode:	Low Channel—Keep Transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2402	87.35 (PK)	H	114/94	-6.65
2402	86.50 (PK)	V	114/94	-7.50
4804	--	H/V	74/54	--
7206	--	H/V	74/54	--
9608	--	H/V	74/54	--
12010	--	H/V	74/54	--
14412	--	H/V	74/54	--
16814	--	H/V	74/54	--
19216	--	H/V	74/54	--
21618	--	H/V	74/54	--
24020	--	H/V	74/54	--

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Product:	Wireless Keyboard With Touchpad Receiver	Test Mode:	Middle Channel—Keep Transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2448	87.04 (PK)	H	114/94	-6.96
2448	87.73 (PK)	V	114/94	-6.27
4896	--	H/V	74/54	--
7344	--	H/V	74/54	--
9792	--	H/V	74/54	--
12240	--	H/V	74/54	--
14688	--	H/V	74/54	--
17136	--	H/V	74/54	--
19584	--	H/V	74/54	--
22032	--	H/V	74/54	--
24480	--	H/V	74/54	--

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Product:	Wireless Keyboard With Touchpad Receiver	Test Mode:	High Channel—Keep Transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2480	87.30(PK)	H	114/94	-6.70
2480	86.46 (PK)	V	114/94	-7.54
4960	--	H/V	74/54	--
7440	--	H/V	74/54	--
9920	--	H/V	74/54	--
12400	--	H/V	74/54	--
14880	--	H/V	74/54	--
17360	--	H/V	74/54	--
19840	--	H/V	74/54	--
22320	--	H/V	74/54	--
24800	--	H/V	74/54	--

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

(3) Margin=Emission-Limits

(4) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) The measured PK value less than the AV limit.

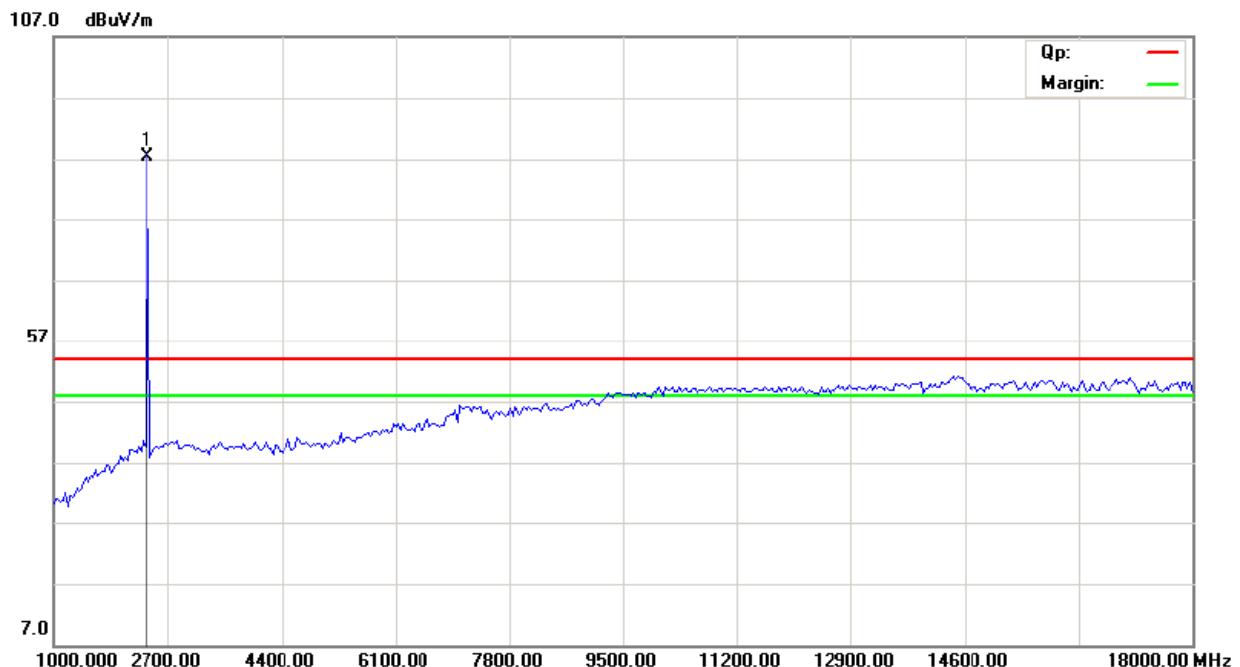
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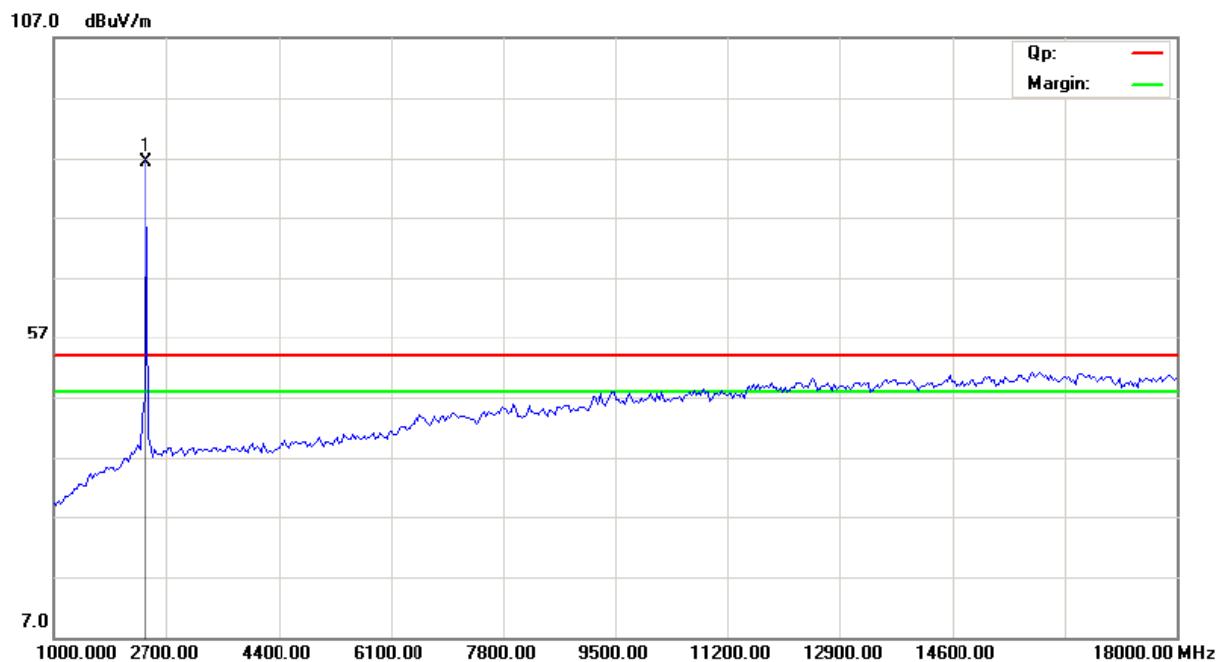
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Please refer to the following test plots for details:

**Low Channel: Horizontal**



**Low Channel : Vertical**

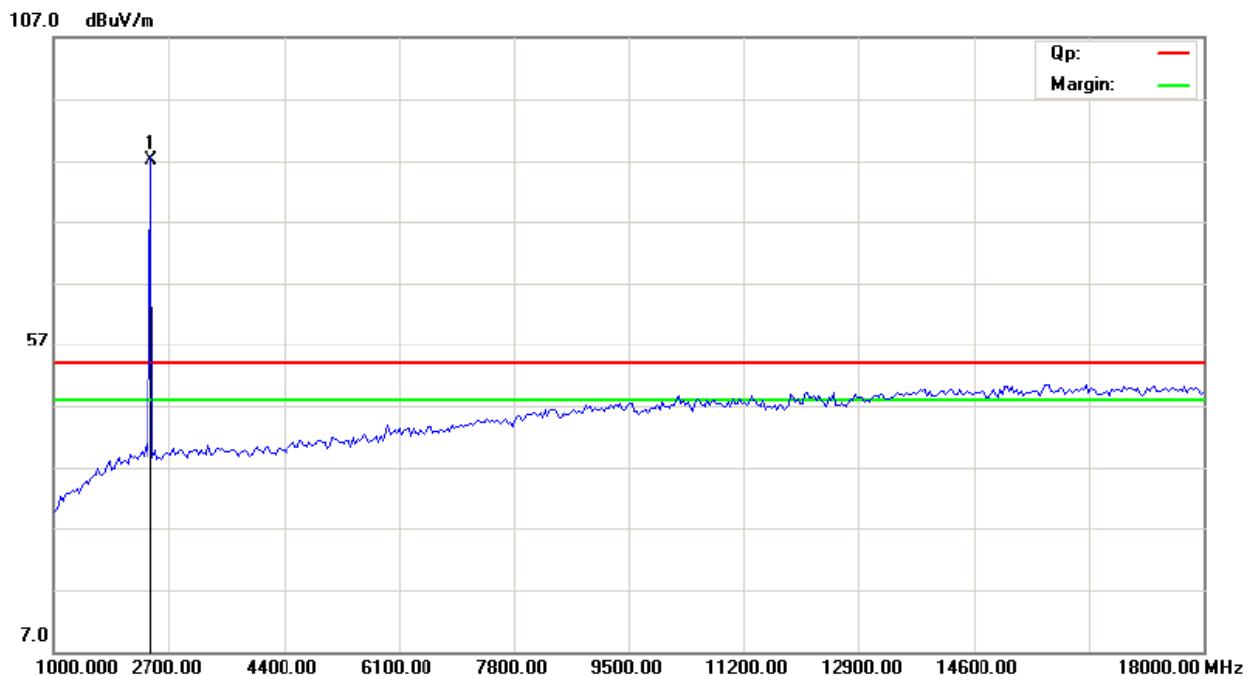


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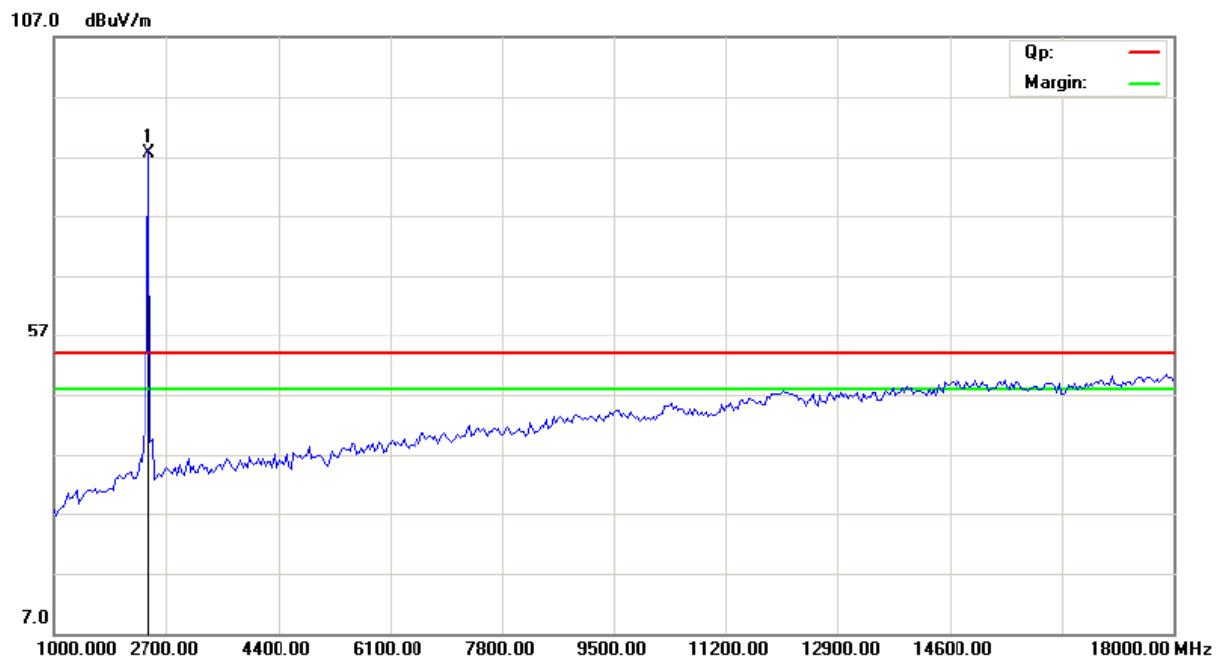
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### Middle Channel : Horizontal



### Middle Channel :: Vertical

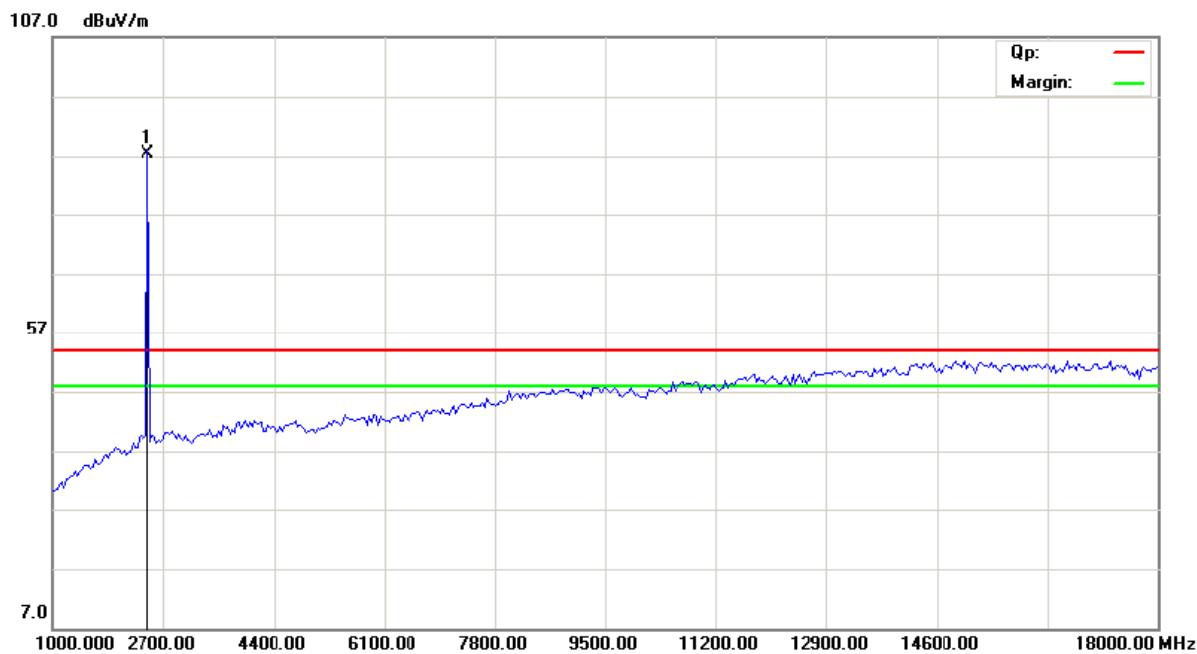


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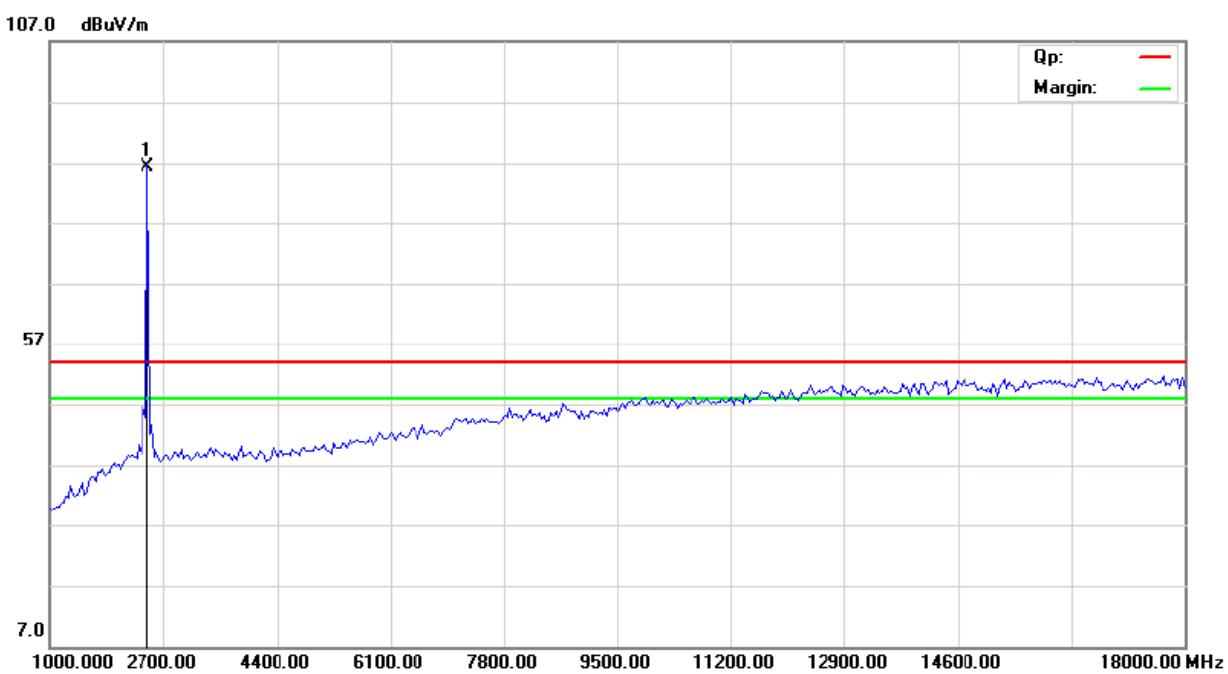
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### High Channel : Horizontal



### High Channel : Vertical



**Note: for the radiated emissions from 18-25GHz, it was the floor noise.**

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## B. General Radiated Emission Data

### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting

Mode: Low Channel

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
103.867	16.26	H	43.50
607.334	26.65	H	46.00

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### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting

Mode: Low Channel

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
101.179	16.26	V	43.50
432.384	23.68	V	46.00

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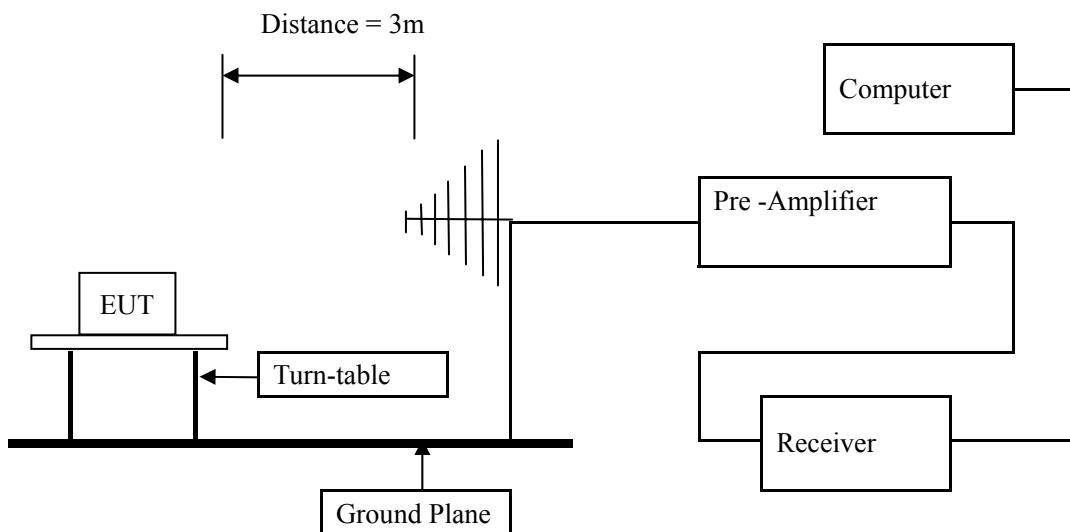
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## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 -2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna height is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Remark: low, mid and high channel all have been tested; only worse case is reported.

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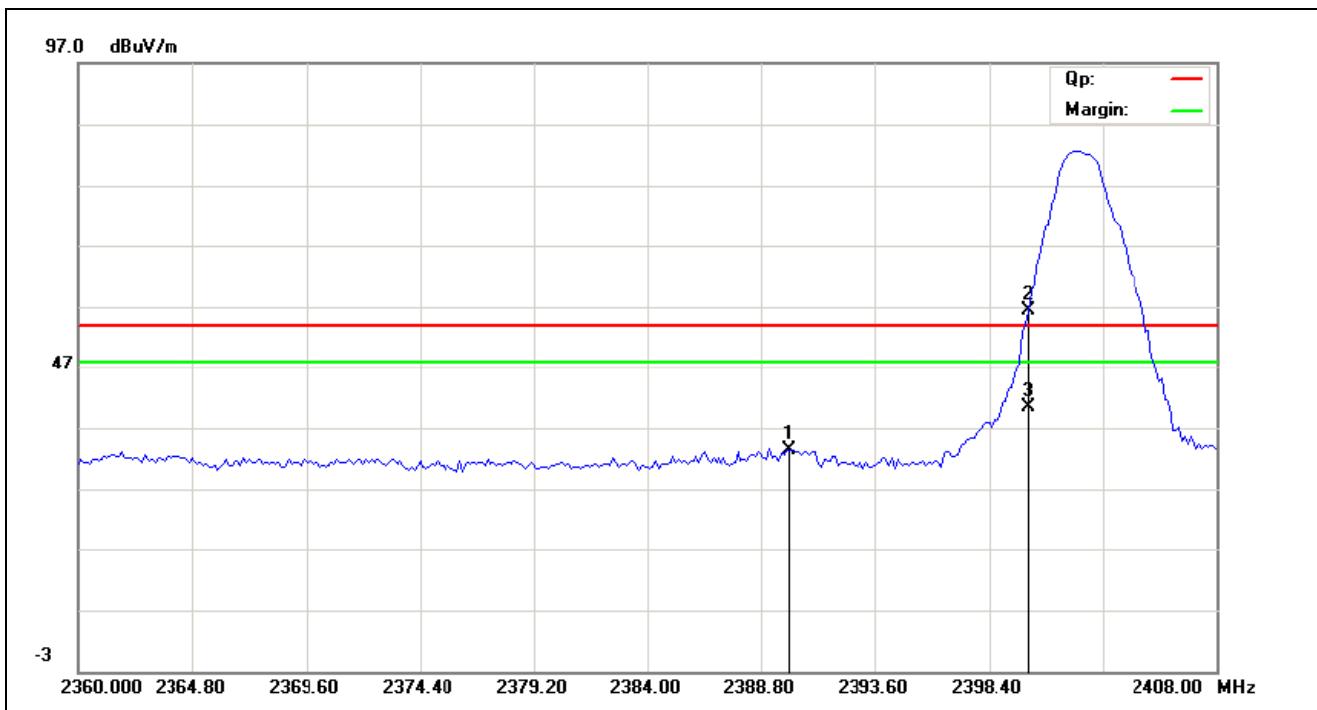
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## 7.6 Restrict Band Test Result

Product:	Wireless Keyboard With Touchpad Receiver		Test Mode:	Low Channel
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2390MHz	PK (dB $\mu$ V/m)	33.49	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
2400MHz	PK (dB $\mu$ V/m)	56.36	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	40.47		54(dB $\mu$ V/m)

### Test Figure:

#### Horizontal:



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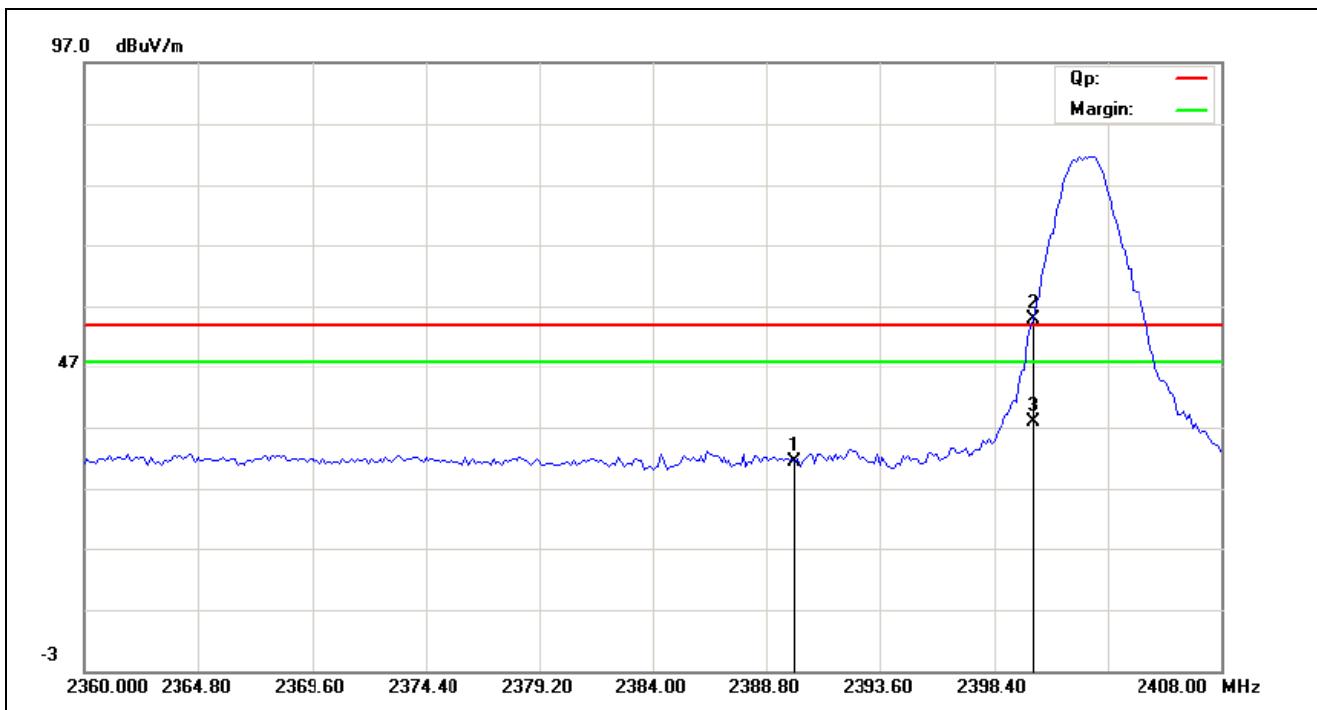
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## 7.6 Restrict Band Test Result

Product:	Wireless Keyboard With Touchpad Receiver		Test Mode:	Low Channel
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2390MHz	PK (dB $\mu$ V/m)	31.49	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
2400MHz	PK (dB $\mu$ V/m)	54.86	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	37.91		54(dB $\mu$ V/m)

### Test Figure:

#### Vertical:



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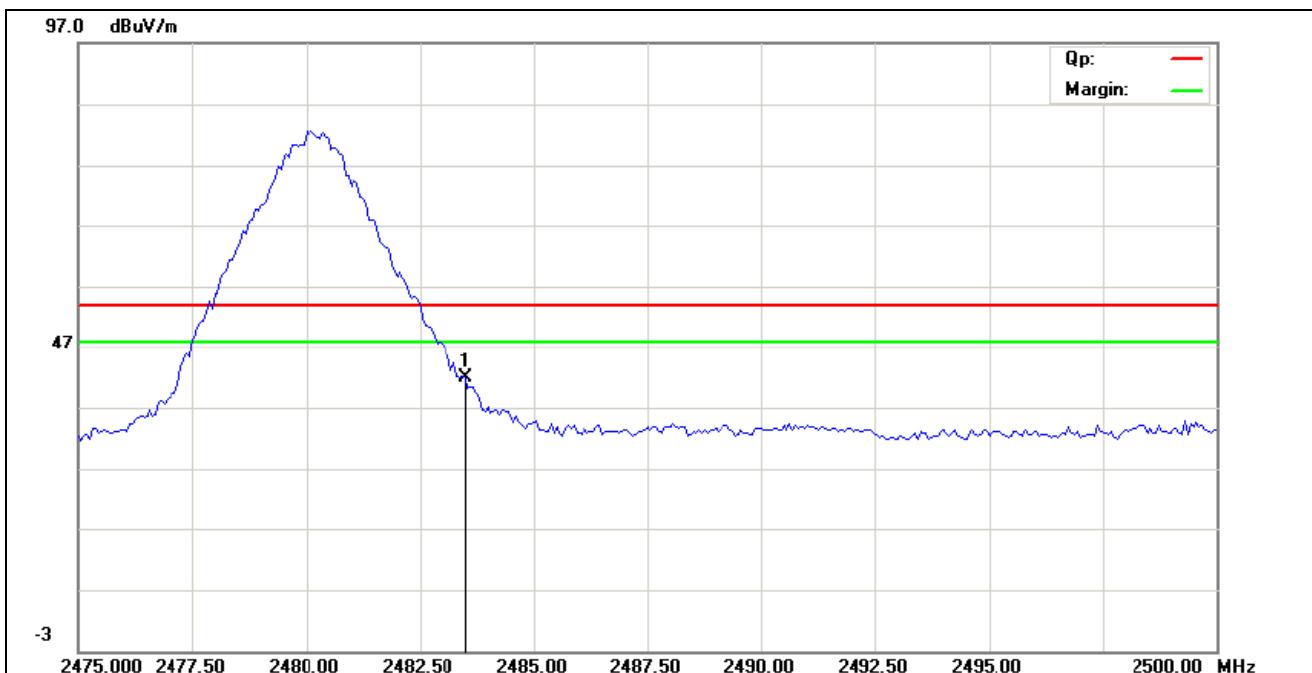
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## 7.6 Restrict Band Test Result

Product:	Wireless Keyboard With Touchpad Receiver		Test Mode:	High Channel
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5MHz	PK (dB $\mu$ V/m)	41.98	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

### Test Figure:

#### Horizontal:



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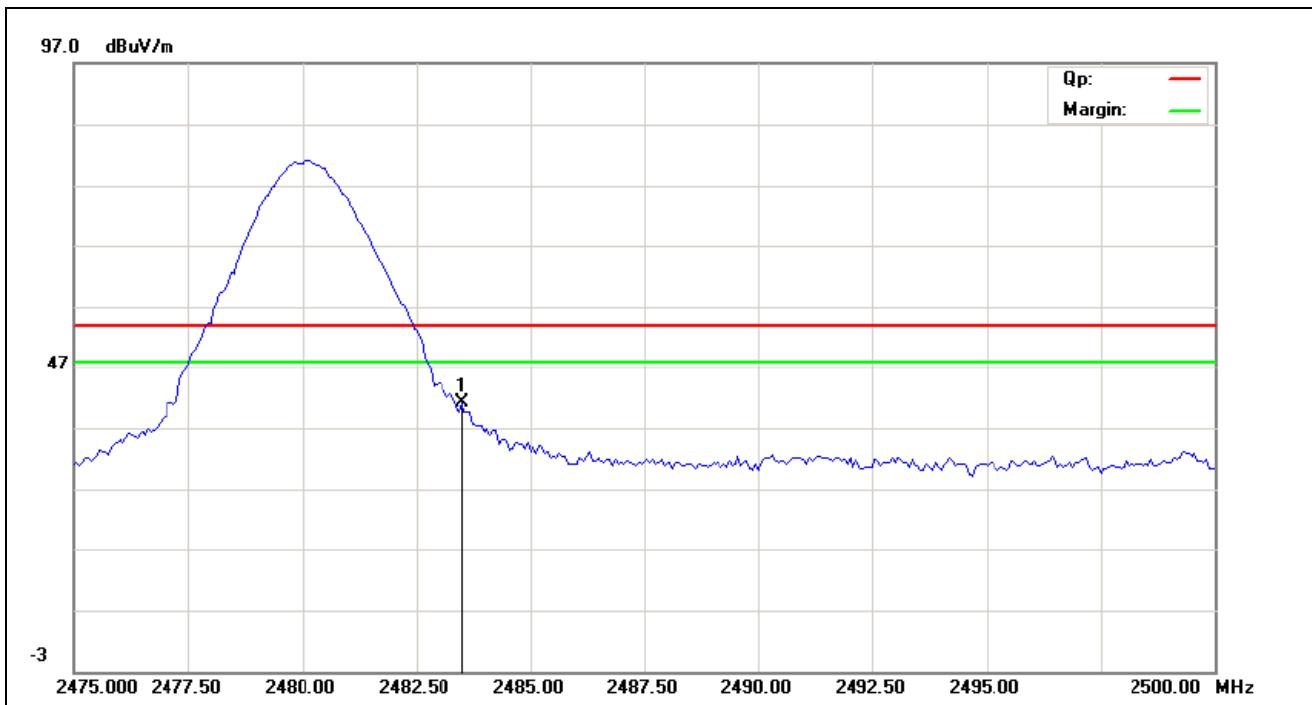
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## 7.6 Restrict Band Test Result

Product:	Wireless Keyboard With Touchpad Receiver		Test Mode:	High Channel
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5MHz	PK (dB $\mu$ V/m)	41.06	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

### Test Figure:

Vertical:



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## 8.0 Antenna Requirement

### Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB permanent antenna, fulfill the requirement of this section.

Test Result: Pass

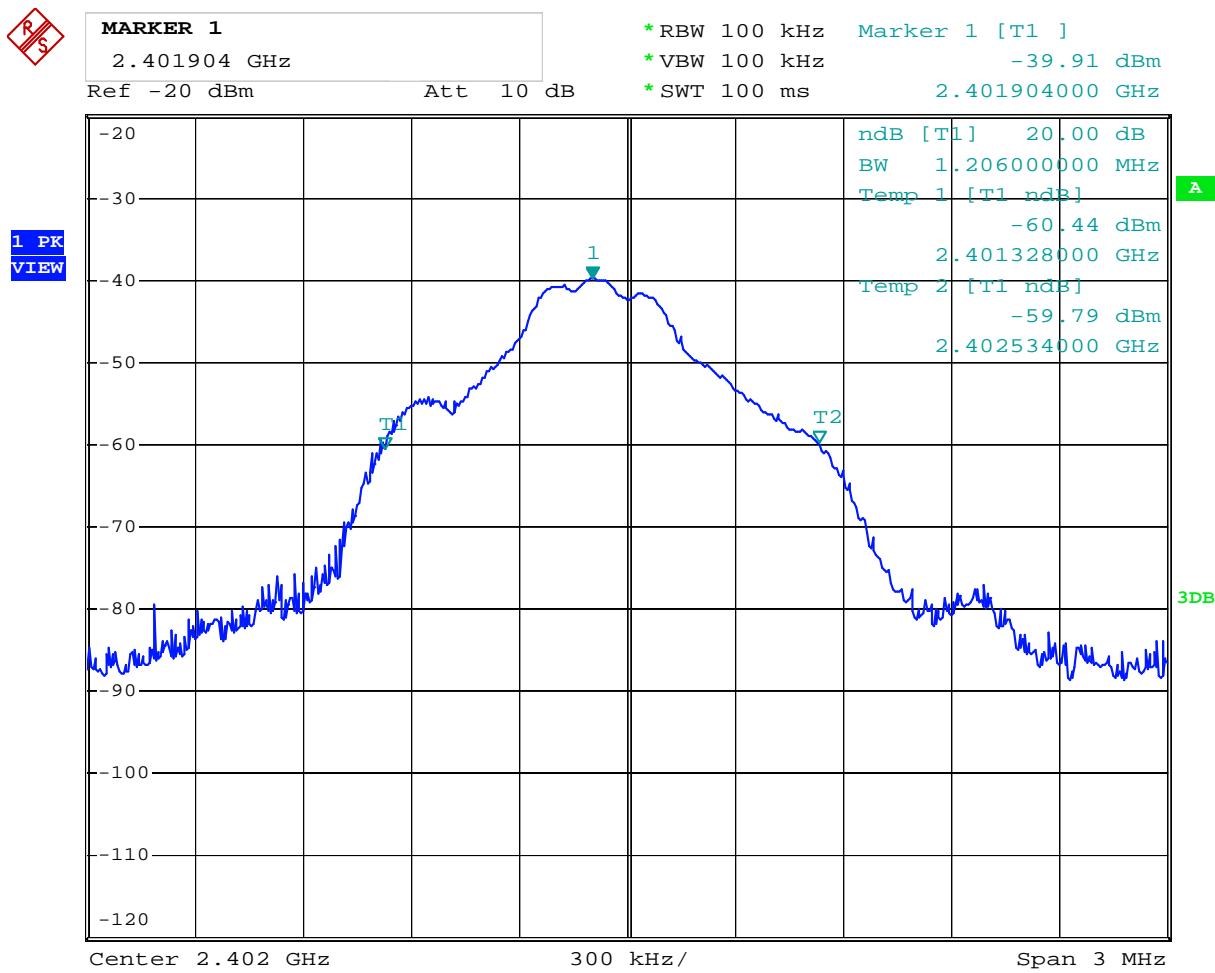
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## 9.0 20dB Bandwidth Measurement

Product:	Wireless Keyboard With Touchpad Receiver	Test Mode:	Low Channel
Mode	Keeping Transmitting	Test Voltage	DC5.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.206MHz	--	--



Date: 27.DEC.2011 16:01:36

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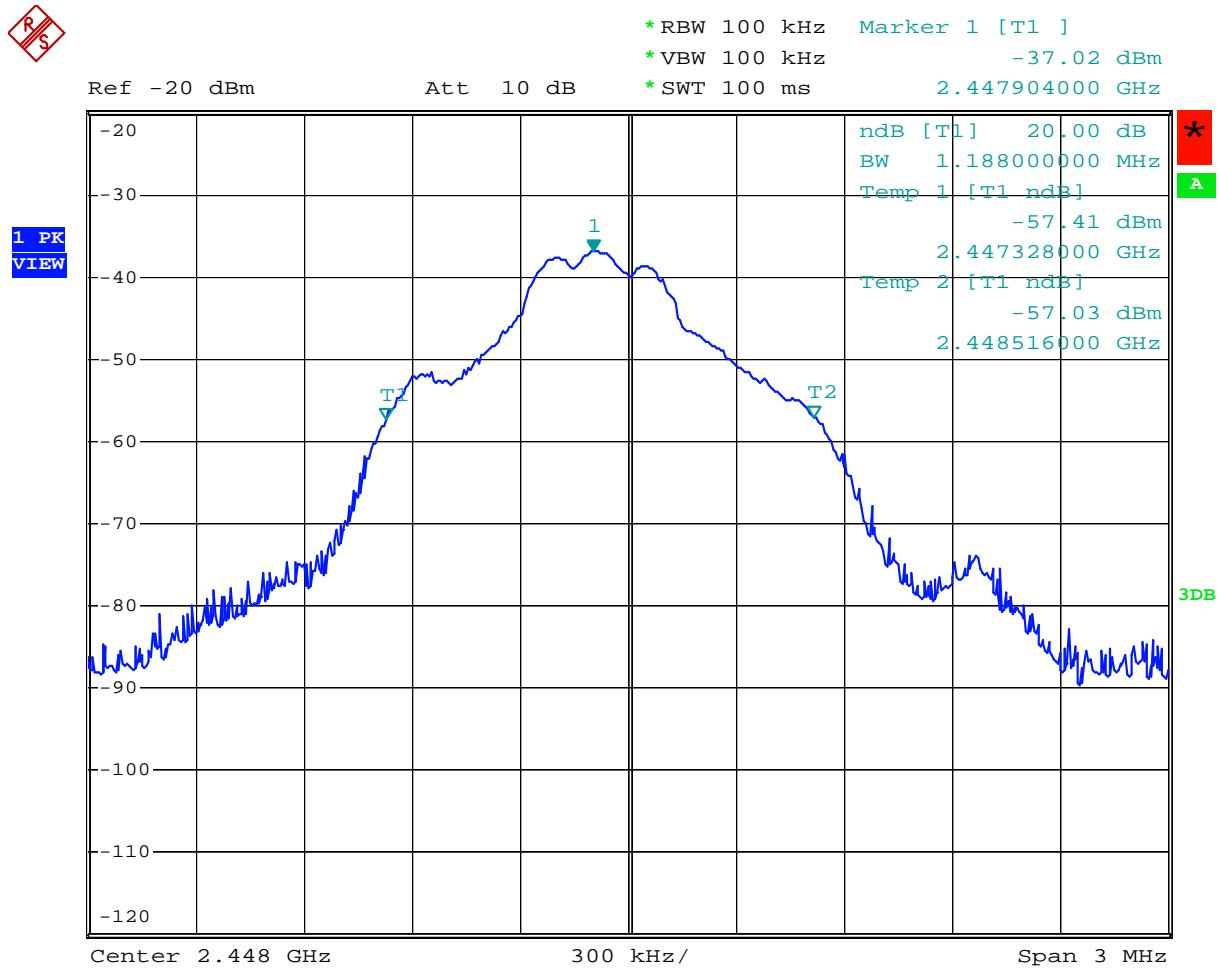
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## 9.1 20dB Bandwidth Measurement

Product:	Wireless Keyboard With Touchpad Receiver	Test Mode:	Middle Channel
Mode	Keeping Transmitting	Test Voltage	DC5.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.188MHz	--	--



Date: 27.DEC.2011 16:03:10

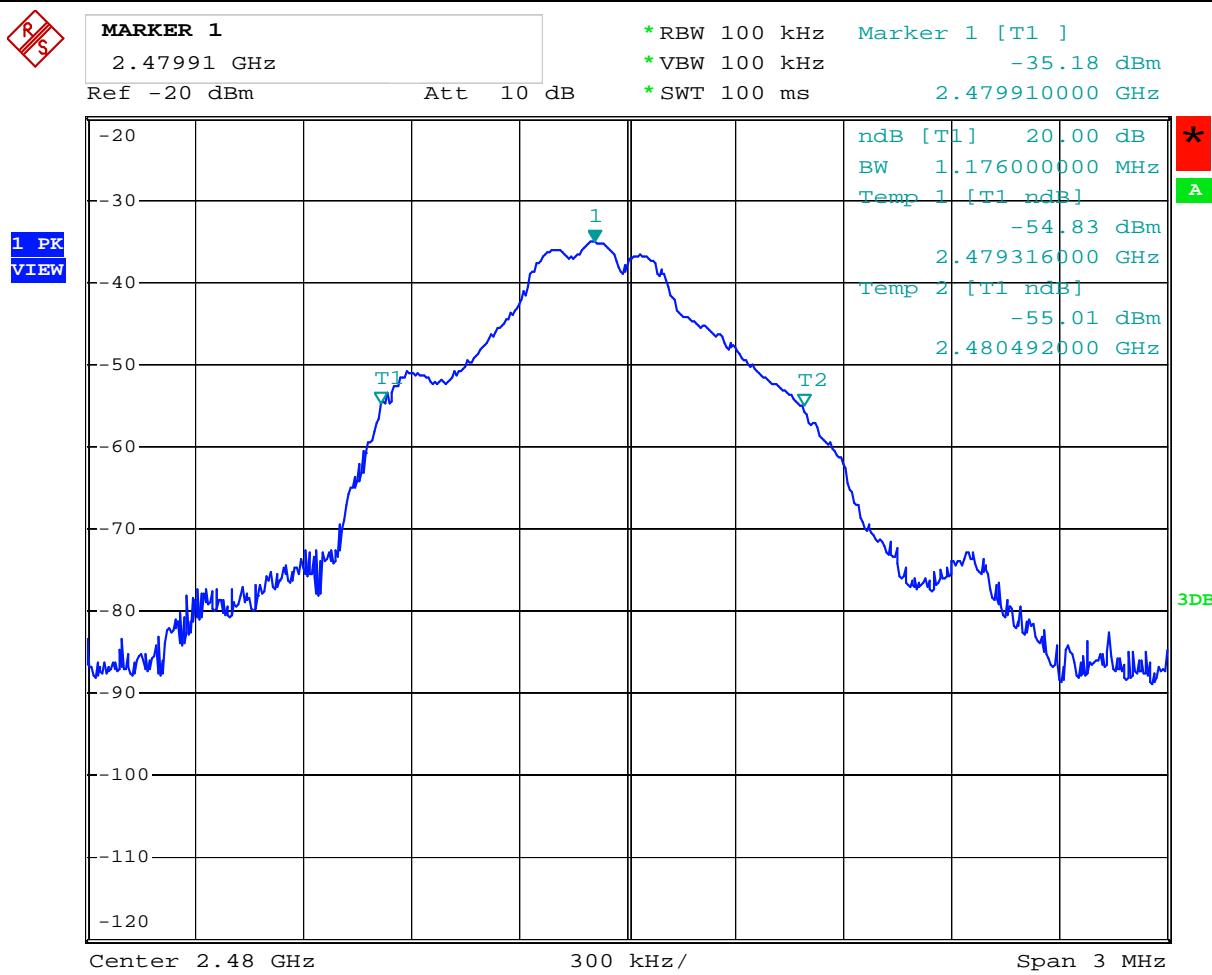
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## 9.2 20dB Bandwidth Measurement

Product:	Wireless Keyboard With Touchpad Receiver	Test Mode:	High Channel
Mode	Keeping Transmitting	Test Voltage	DC5.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.176MHz	--	--



Date: 27.DEC.2011 16:03:52

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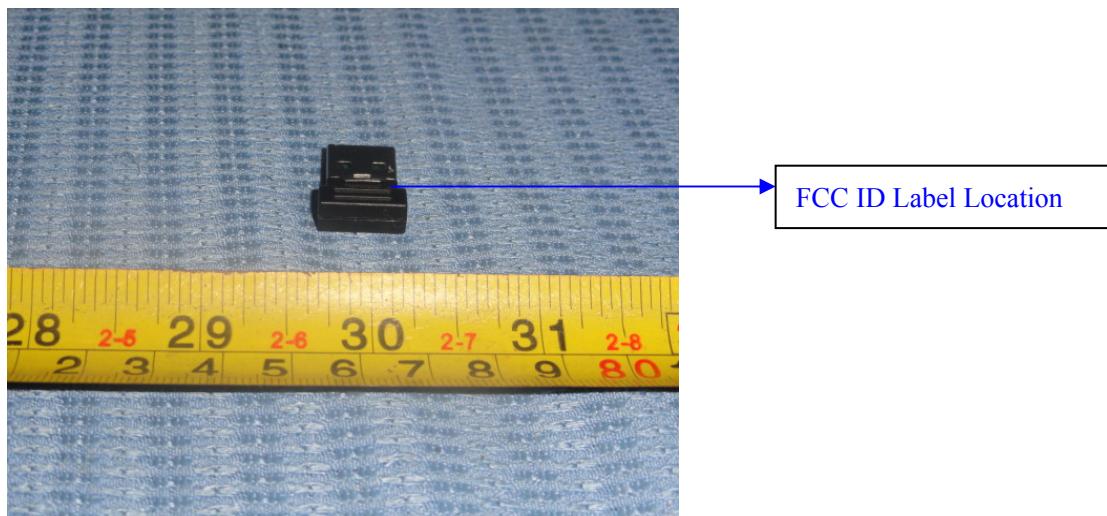
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## 10.0 FCC ID Label

### FCC ID: XQLS-KW252TG-D

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



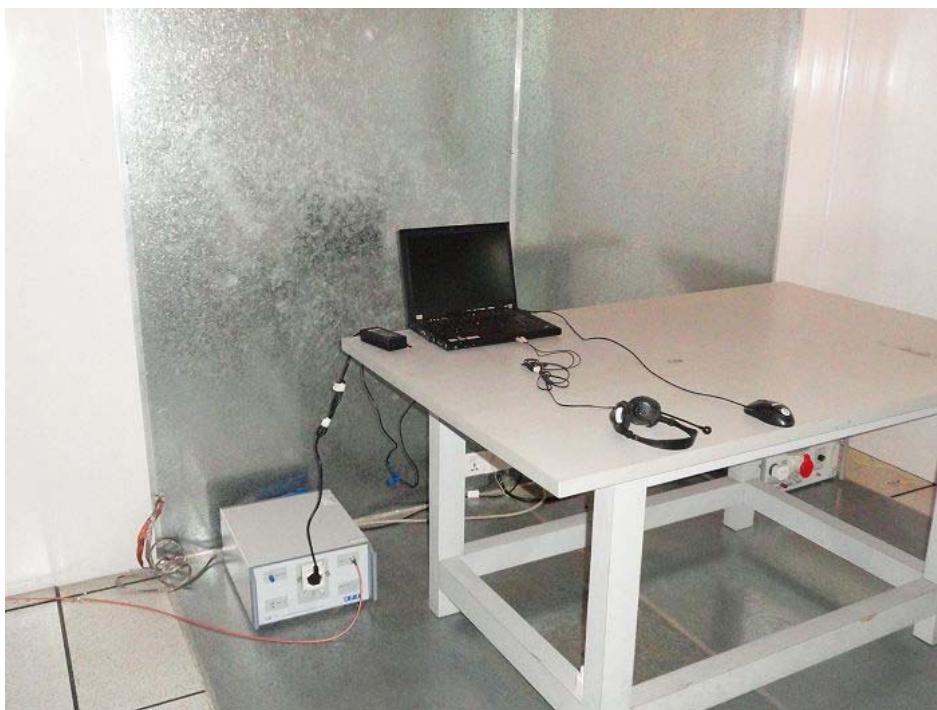
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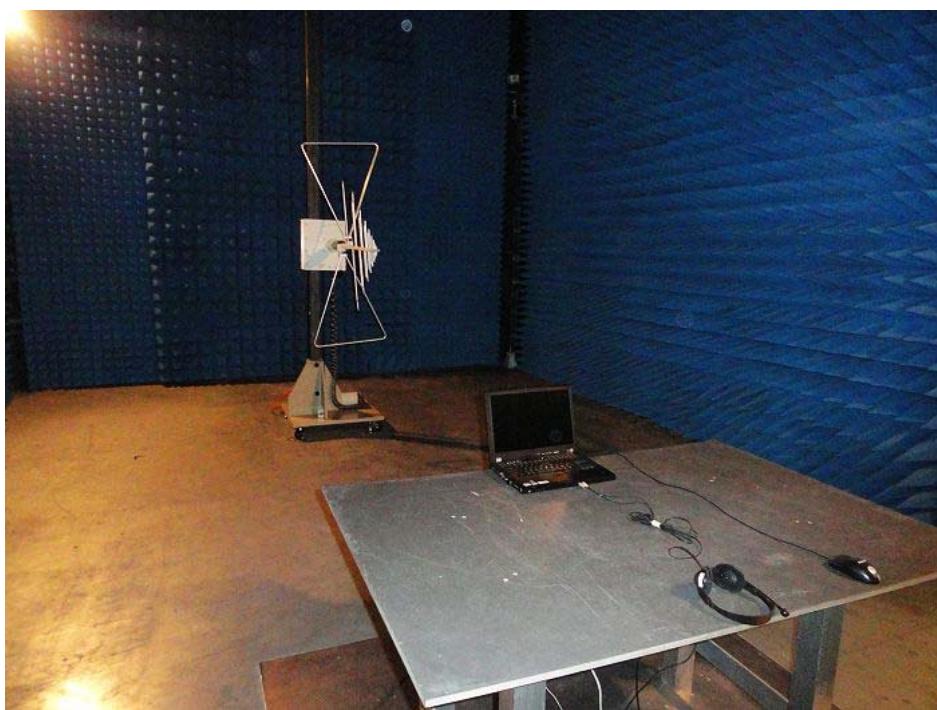
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## 11.0 Photo of testing

### 11.1 Conducted test View--



### 11.2 Radiated emission test view

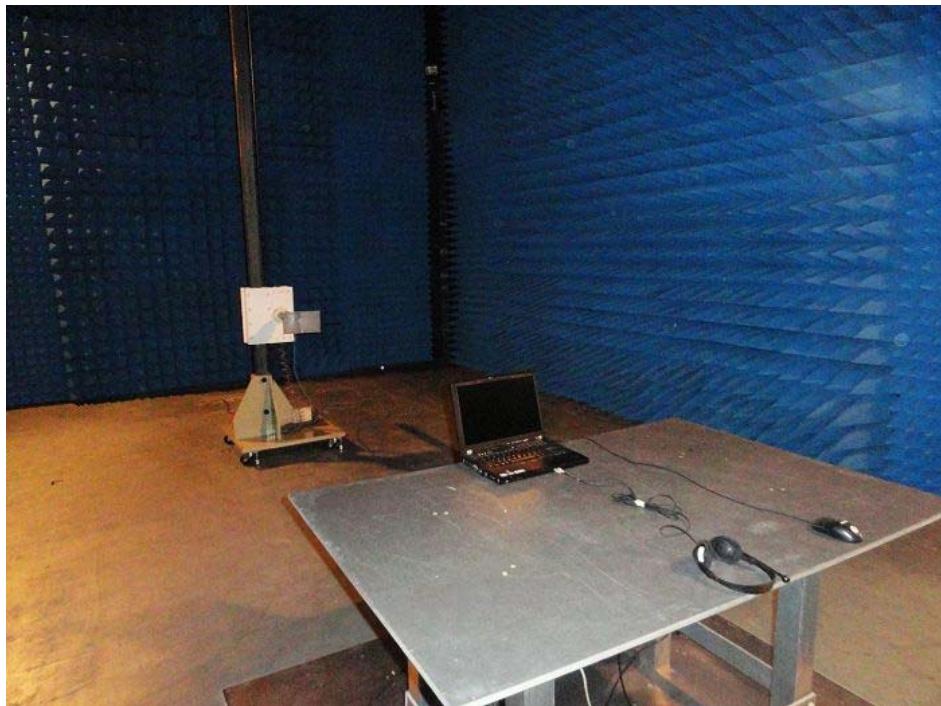


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11.2 Radiated emission test view



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11.3 Photo for the EUT

Outside View

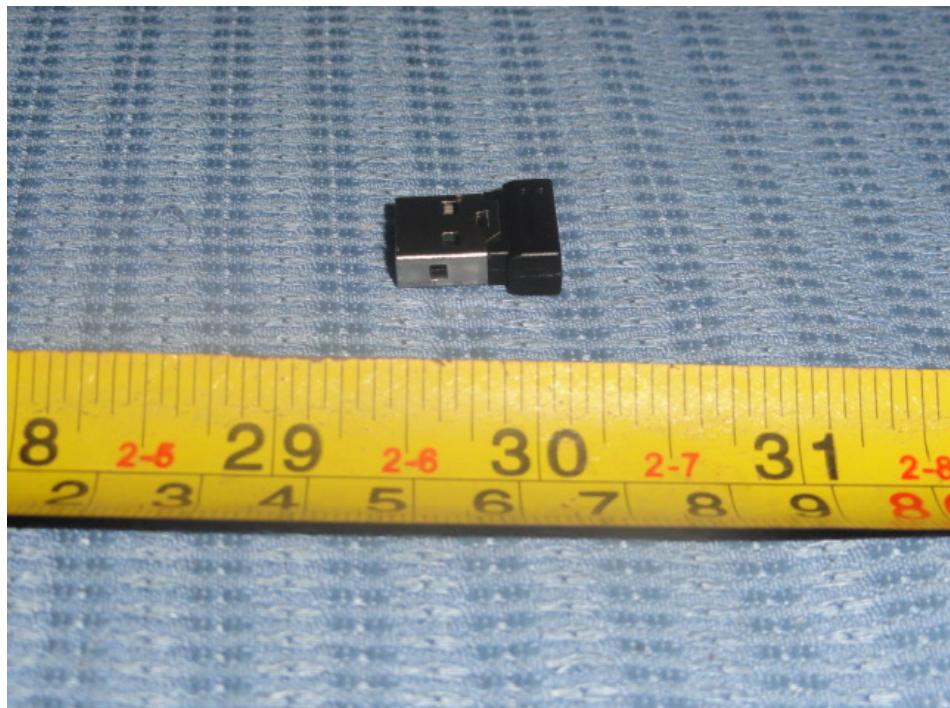


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Outside View

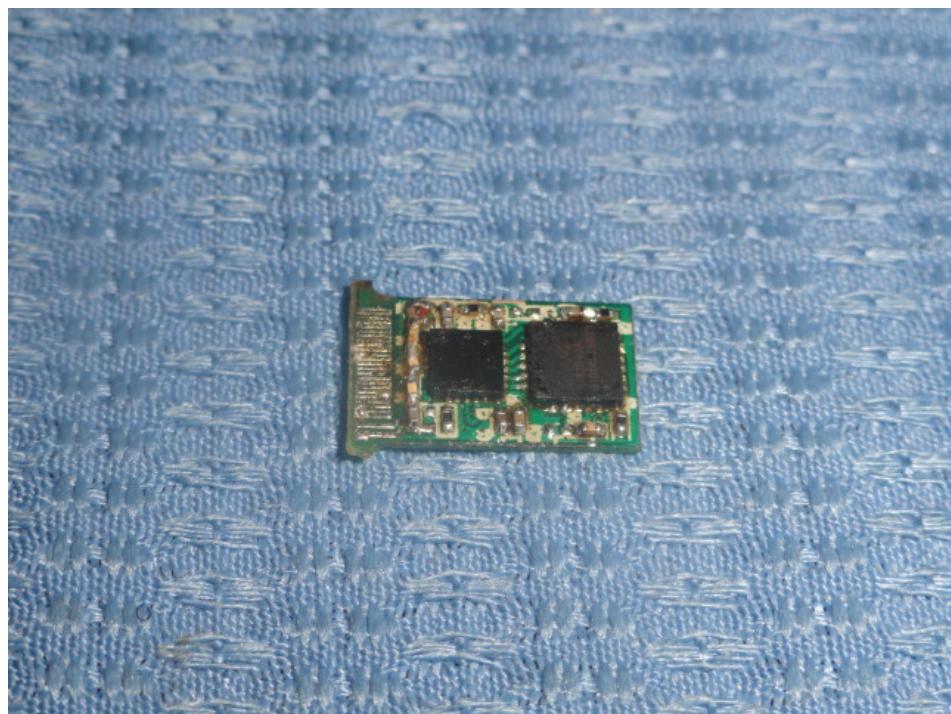
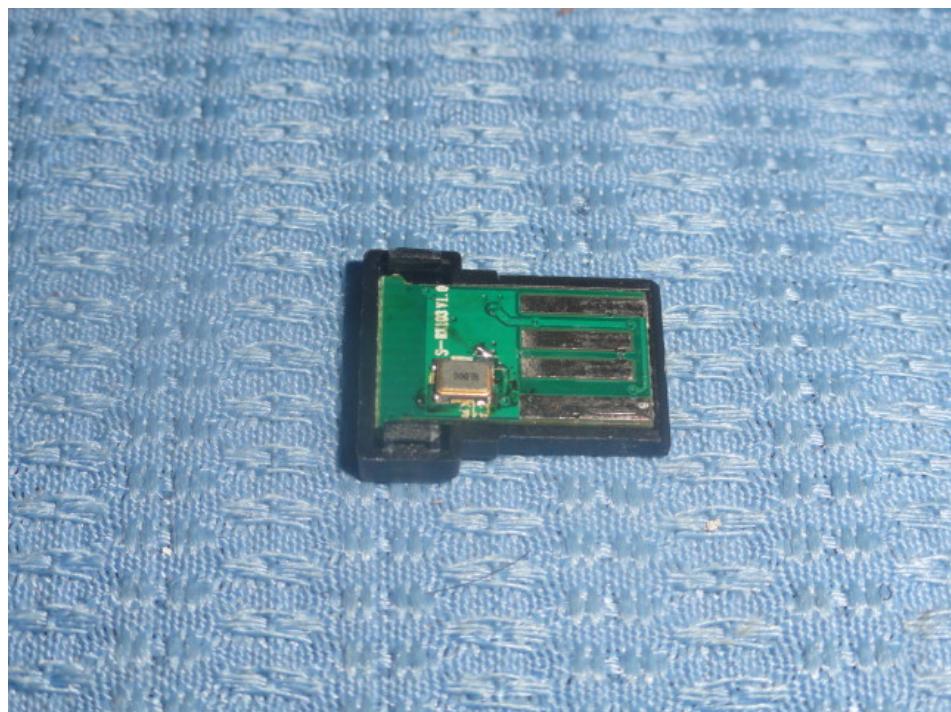


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Interior View



**--End of the report--**

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