





# ISO/IEC17025 Accredited Lab.

Report No: FCC0909028-01

File reference No: 2009-10-21

Applicant: Guangzhou Sunday Electronics Co., Ltd.

Product: Wireless Keyboard

Model No: S-KW419G

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: Oct 21, 2009

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

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# **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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#### 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,

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Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

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: Building 5, Gaotang Commercial Zone, No. 128, Second Guangshan Rd., Tianhe District

GZ,China

Telephone: +86-20-87071000 Fax: +86-20-87071002

# 1.3 Description of EUT

Product: Wireless Keyboard

Manufacturer: Guangzhou Sunday Electronics Co., Ltd.

Brand Name: SUNDAY
Model Number: S-KW419G

Additional Model Name S-KW3xxxx-S-KW5xxxx

Additional Trade Name N/A

Rating: DC3.0V, 2 pcs AAA batteries

Modulation Type: GFSK

Operation Frequency 2405-2476MHz

Antenna Designation Printed antenna, which is built-in, designed as an indispensable part of the EUT.

#### 1.4 Submitted Sample

1 Sample

# 1.5 Test Duration

2009-09-27 to 2009-10-16

The report refers only to the sample tested and does not apply to the bulk.

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

1							
2.0	Test Equipments						
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date		
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2008-12-05	2009-12-04		
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2008-12-05	2009-12-04		
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2008-12-05	2009-12-04		
Ultra Broadband ANT	Schwarebeck	VULB9163	9163/340	2009.2.22	2010-02-21		
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2009-03-30	2010-03-29		
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2009-02-18	2010-02-17		
Power meter	Anritsu	ML2487A	6K00003613	2009-02-18	2010-02-17		
Power sensor	Anritsu	MA2491A	32263	2009-02-8	2010-02-17		
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2009-02-18	2010-02-17		
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2009-08-15	2010-08-14		
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2009-07-02	2010-07-01		

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#### 3.0 **Technical Details**

#### 3.1 **Summary of test results**

The EUT has been tested according to the	ie fonowing speci	neations.	
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

#### 3.2 **Test Standards**

FCC Part 15 Subpart C, Paragraph 15.249

#### 4.0 **EUT Modification**

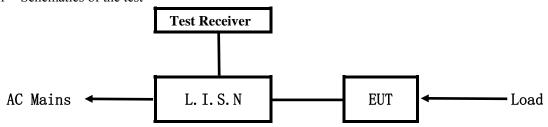
No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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## 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

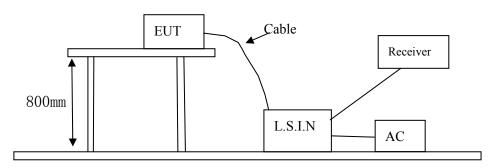


**EUT: Equipment Under Test** 

# 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 500hm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

## 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	Guangzhou Sunday Electronics Co., Ltd.	S-KW419G	XQLSD0909419
keyboard			

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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# C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

# 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

Eraguanay (MHz)	Class A Lir	nits (dB µ V)	Class B Limits (dB µ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	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.

# Due to DC operation, this test item not applicable

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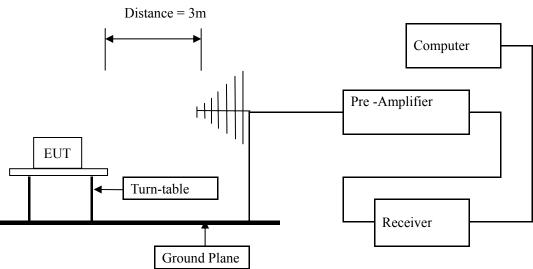
Date: 2009-10-21



## **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	Field Strength of Fundamental (3m)			Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log 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 µ 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 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. New batteries were installed in the equipment under test for radiated emission testing.
- 5. 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

#### $\mathbf{A}$ **Fundamental & Harmonics Radiated Emission Data**

Product:	Wireless Keyboard	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2405	66.8 (PK)	Н	114/94	-27.2
2405	69.5 (PK)	V	114/94	-24.5
4810		H/V	74/54	
7215		H/V	74/54	
9620		H/V	74/54	
12025		H/V	74/54	
14430		H/V	74/54	
16835		H/V	74/54	
19240		H/V	74/54	
21645		H/V	74/54	
24050		H/V	74/54	

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Product:	Wireless Keyboard	Test Mode:	Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2439	67.8(PK)	Н	114/94	-26.2
2439	69.2(PK)	V	114/94	-24.8
4878		Н	74/54	
7317		V	74/54	
9756		H/V 74/54		
12195		H/V	74/54	
14634		H/V	74/54	
17073		H/V	74/54	
19512		H/V	74/54	
21951		H/V	74/54	
24390		H/V	74/54	

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Product:	Wireless Keyboard	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2476	68.9(PK)	Н	114/94	-25.1
2476	70.3(PK)	V	114/94	-23.7
4952		H/V	74/54	
7428		H/V	74/54	
9904		H/V	74/54	
12380		H/V	74/54	
14856		H/V	74/54	
17332		H/V	74/54	
19808		H/V	74/54	
22284		H/V	74/54	
24760		H/V	74/54	

Note: (1

- (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.

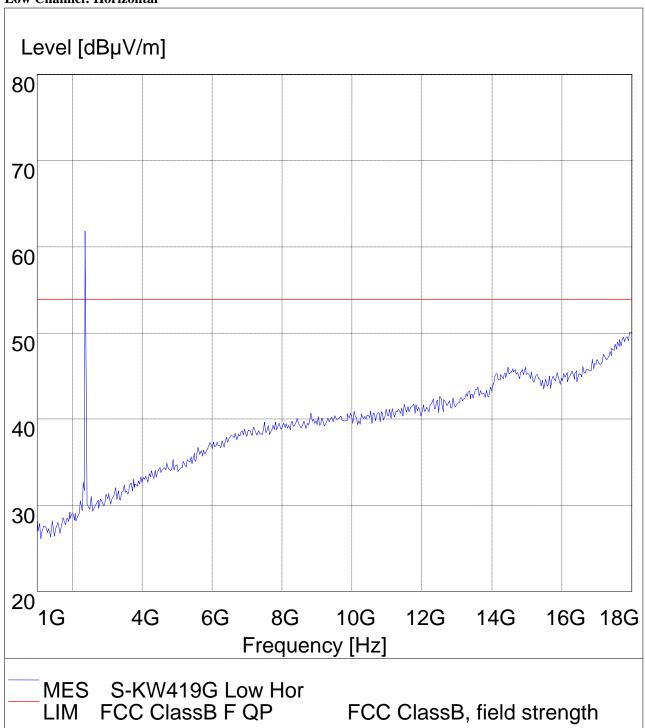
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Please refer to the following test plots for details

Low Channel: Horizontal



The report refers only to the sample tested and does not apply to the bulk.

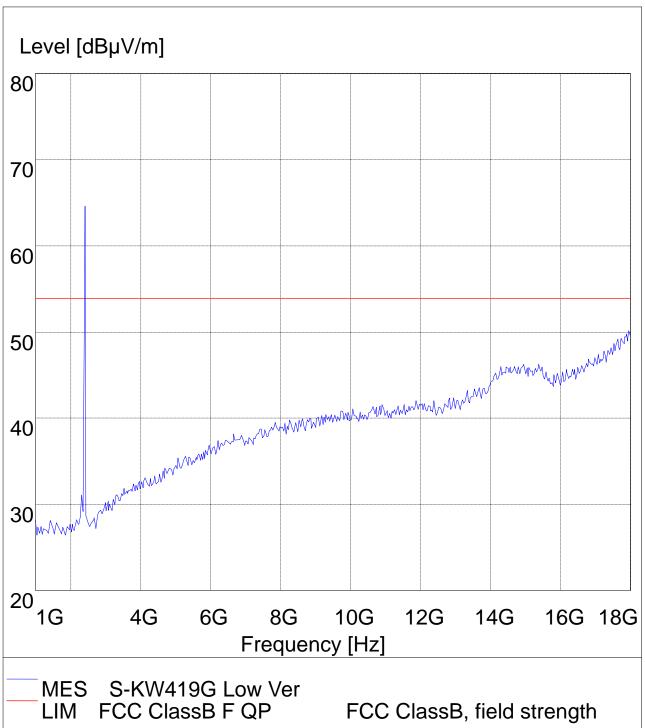
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Low Channel: Vertical



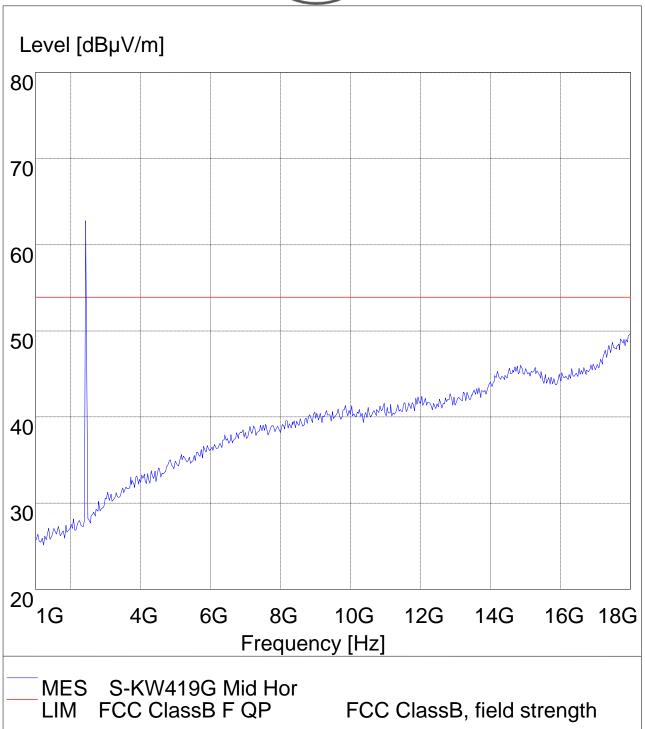
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**Middle Channel: Horizontal** 

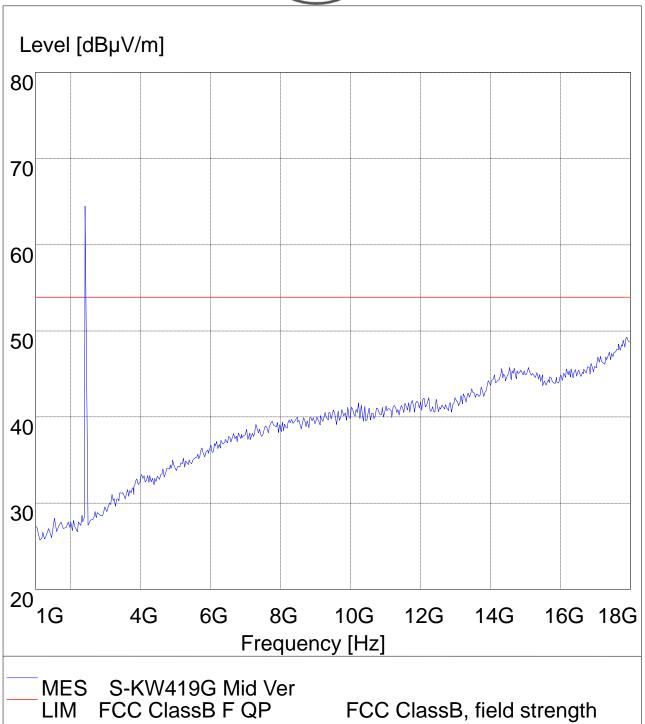


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**Middle Channel :: Vertical** 

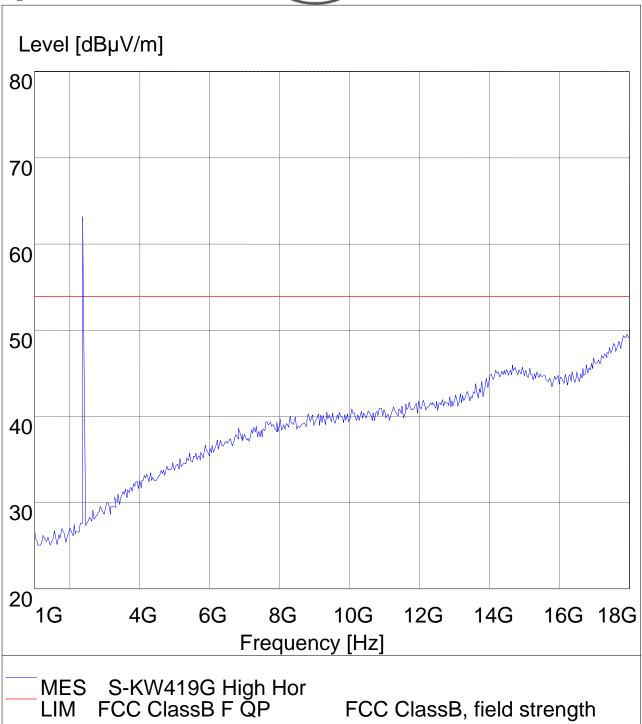


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**High Channel: Horizontal** 

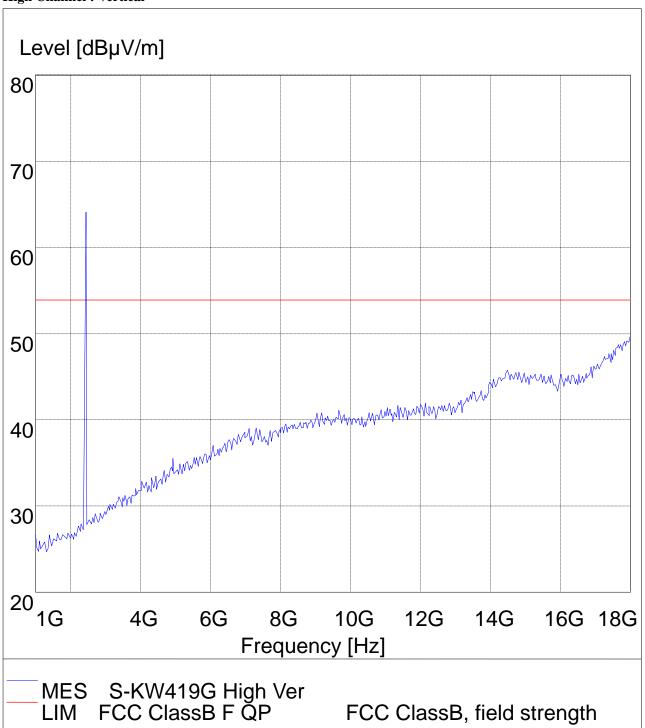


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**High Channel: Vertical** 

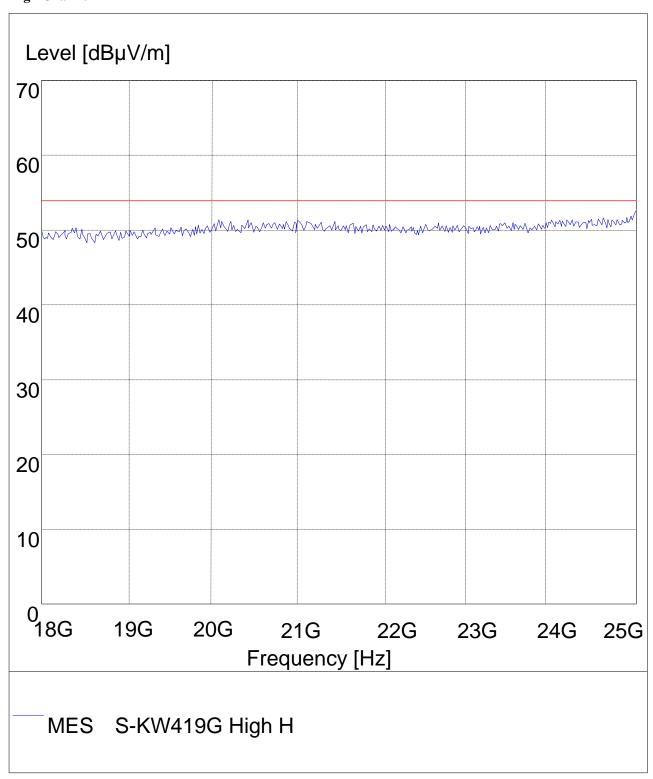


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18-25G High Channel



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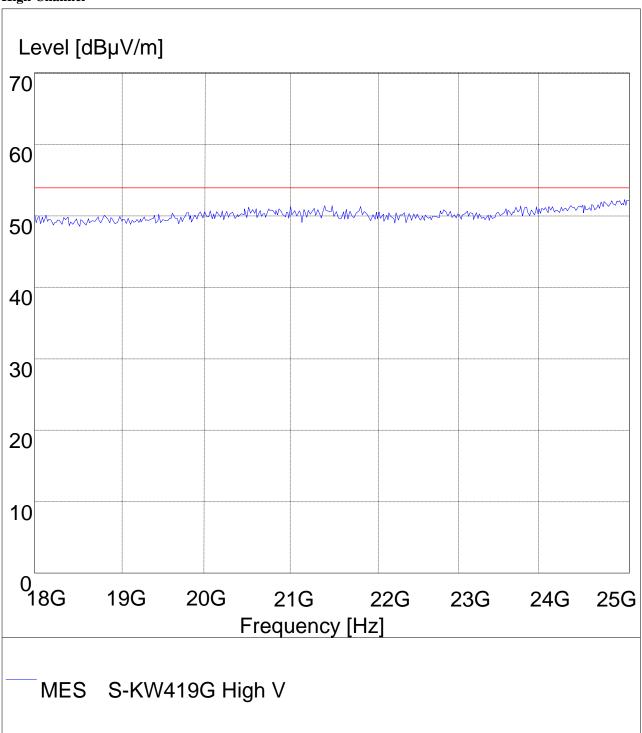
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18-25G High Channel



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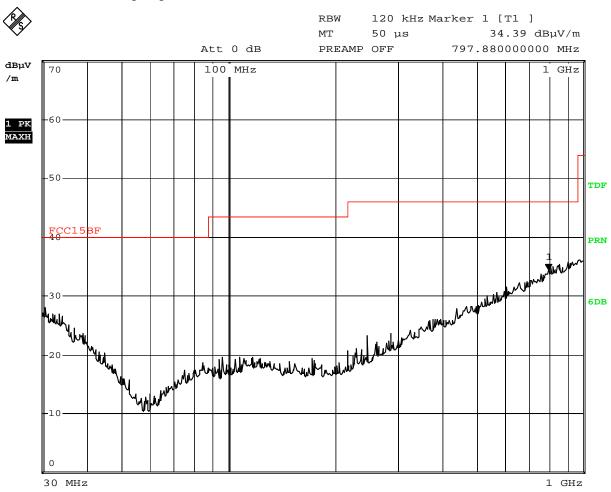
# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: Low Channel

**Results:** Pass

Please refer to following diagram for individual



Date: 27.SEP.2009 16:29:13

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
	-	Н	

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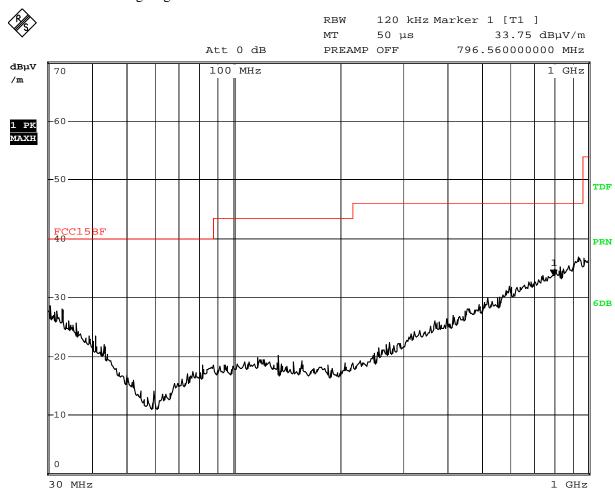
# Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Date: 27.SEP.2009 16:28:30

Frequency (MHz) Level@3m (dB \( \pu \) V/r		Antenna Polarity	Limit@3m (dB $\mu$ V/m)
		V	

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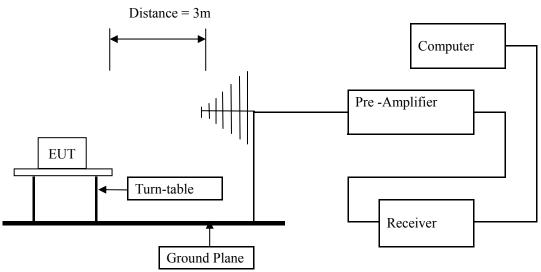


# 7. Band Edge

#### 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=100kHz and Peak detector used
- (3) The antenna high 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.

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## 7.6 Test Result

	roduct:			Wir	eles	s Kevho	ard	Tes	st Mode:			Low Cl	nannel	
	Mode		Wireless Keyboard Keeping Transmitting				t Voltage			DC:				
	nperature				Humidity 56%									
	t Result:					Pass			Detector					
			PK (d	dBμV/		1	47.4		Beteetoi		PK 74(dBμV/m)			
23	98MHz			lBμV/1				-	Limit			54(dB <sub>L</sub>		
			(-			3 [T1]		RBW	1 1	LI →	DE	Att	10 dB	
	Ref Lvl			IIdi K			9 dBμV	VBW	1 1		1/1	ни	10 00	
	87 dBμ\	/			2	.397955		SWT	100 m		Ur	nit	$dB\muV$	/
87								1		F T 4 3				1
80									<b>▼</b> 3	[T1]		53. 2 20705	89 dBµV	Α
00									$\nabla_1$	[T1]		69.	331 BHZ 19 dBμV	
70													, 046 GHz	
70									∇2	[T1]		1 \	09 dB $\mu$ V	
6.0												2.39000	000 GHz	
60											3			1
	1MAX											\ W\		1MA
50											$\dashv$	1	٨	
												V	V	
40	//\	A . A	- 1-			1 1 . A.W. A.		المناطقية	MA ///	2	$\mathcal{H}$		\u	
	mmar w	W~W	~~~							W - W/P ()				
30														ł
20														
10														
0														
-10														
-13														J
	Start 2						11	MHz/				Stop 2	.42 GHz	
Date:	2	8.5	EP.2	009	13	:45:20								

Note: Field Strength in restrict band measured in conventional manner

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Product:	Wireless	s Keybo	ard	Tes	t Mode:		High C	hannel	
Mode				Test V			DC		
Temperature	24 deg. C,		Humio			56% RH PK			
Test Result:			De	etector					
2492 5MH=	PK (dBμV/m) 34.2 Limit		PK (dBuV/m) 34.2			74(dB	μV/m)		
2483.3MHZ	$AV(dB\mu V/m)$			1	∠IIIIIt		54(dB)	μV/m)	
	Marker 2	2 [T1]		RBW	1 M	Hz	RF Att	10 dB	
Ref Lvl		$40.32~\mathrm{dB}\mu\mathrm{V}$		VBW	1 M				
87 dBμV 87	2			SWT	100 m	S	Un i t	dB $\mu$ V	•
80					<b>▼</b> 2	[T1]	40.	32 dB <i>µ</i> V	Α
70		,			$\triangledown_1$	[T1]	I	02 dBμV 8206 GHz	
60									
1MAX									1MA
	Market			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
40 <b>/ / / / / / / / / / / / / / / / / / /</b>				**	w.ho.	1shah		Monam	
30									
20									
10									
0									
-10									
-13 Start 2.4 Date: 28		43:26	4 MH	łz/			Stop	2.5 GHz	

Note: Field Strength in restrict band measured in conventional manner

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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 M	easurement						
Product:	Wireless Keyboard	Test	Mode:	Low	v Channel		
Mode	Keeping Transmitting	Test Vo	oltage	DC3.0V 56% RH			
Temperature	24 deg. C,	Humid	lity				
Test Result:	Pass	De	Detector		PK		
20dB Bandwidth	1.723MHz						
Ref Lvl	Marker 1 [T1 ndB ndB 20.00	dB VBW	100 kH; 100 kH;	Z	10 dB		
-20 dBm	BW 1.72344689	MHz SWT	100 ms	Unit	dBm		
-20						Α	
20							
-30							
-40		1					
		- The same					
-50 1MAX	T	~0	1 /	<b>V</b> 2	11	MA	
-60							
-70 Market 1970							
-80							
-90							
-100							
-110							
-120							
Center 2.405	02004 GHz	500 kHz/	•		Span 5 MHz		
Date: 27.SEF	°.2009 14:04:31						

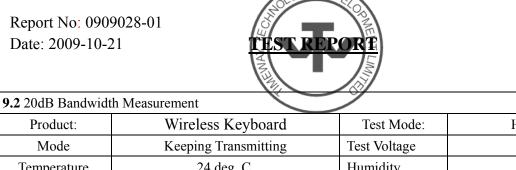
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9.1 20dB Bandwidth N			<u> </u>						
Product:	Wireless Keyboard Keeping Transmitting			t Mode:		Middle	Channel		
Mode				oltage	DC3.0V				
Temperature	24 deg. C,		Humic	lity		56% RH			
Test Result:	Pass	Pass Detector PK		K					
20dB Bandwidth	1.964MHz					-	-		
	Marker 1 [T1 r		RBW	100 kt		Att	10 dB		
Ref Lvl		.00 dB	VBW	100 kt			10		
-20 dBm -20 <b></b>	BW 1.963927	/86 MHz	SWT	100 ms	a Ur	nit	dBm	) -	
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-30									
-40									
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					$\bigvee$		$\mathcal{M}_{\mathcal{A}}$		
-70						<b>W</b>	\		
- " hay de phone							$\vee$		
-80									
-90									
-100									
-110									
-120								J	
Center 2.439	9 GHz	500 k	Hz/			Spa	an 5 MHz		
Date: 27.SE	EP.2009 15:44:10								

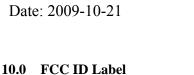
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Product:	Wireless Keyboard Keeping Transmitting			Tes	t Mode:		High Channel DC3.0V 56% RH			
Mode				Test V	oltage					
Temperature	rre 24 deg. C,		Humio	dity						
Test Result:		Pass			Detector		PK			
0dB Bandwidth	1.2	293MHz								
D ( ) 1		1 [T1 r		RBW	100 k		- Att	10 dB		
Ref Lvl -20 dBm	ndB BW 1	.292585 292585.	00 dB	VBW SWT	100 k 100 m		nit	dBm	ı	
-20 dbiii	DW 1	2 3 2 3 0 0	11 11112	INC	100 111	· ·	1	1	•	
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-70 mmh	Mulling	M						Month of		
-80							V			
-90										
-100										
-110										
- 120										
Center 2.47	6 GHz		500 k	Hz/			Spa	an 5 MHz		

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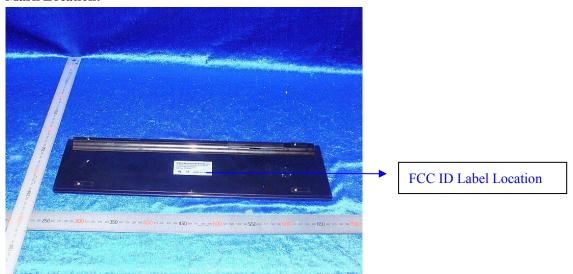


# FCC ID: XQLSD0909419

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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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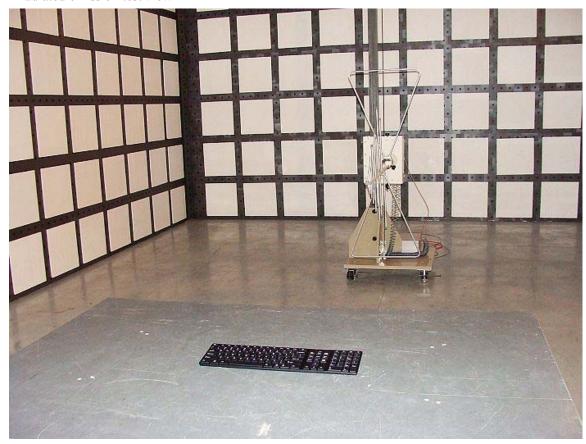


#### 11.0 **Photo of testing**

Conducted test View--11.1

N/A

11.2 Radiated emission test view



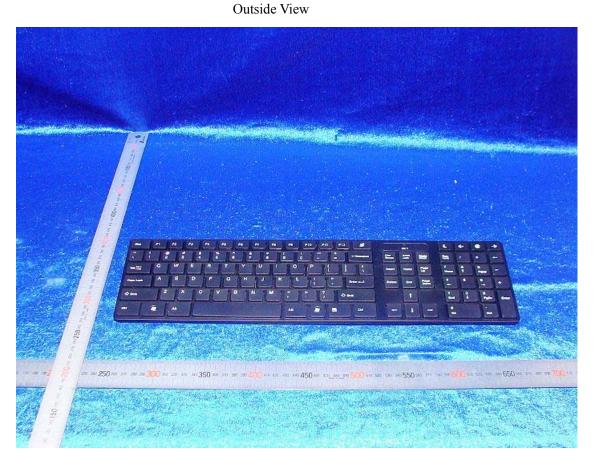
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# 11.3 Photo for the EUT



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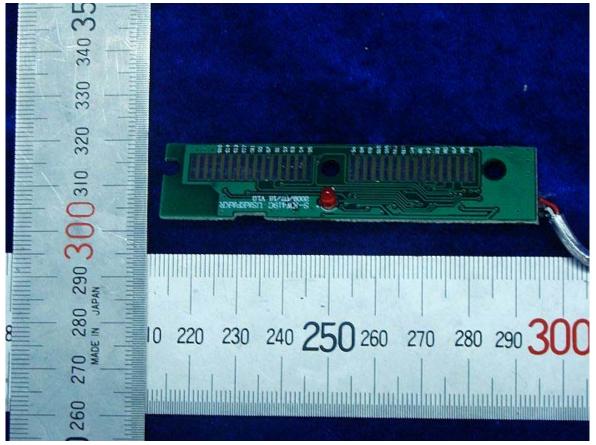




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-- End of the report--