







ISO/IEC17025 Accredited Lab.

Report No: FCC0912081-03 File reference No: 2010-01-06

Applicant: Guangzhou Sunday Electronics Co., Ltd.

Product: Wireless Keyboard with Touchpad

Model No: S-KW425TG

Trademark: SUNDAY

Test Standards: FCC Part 15 Subpart B: 2008

Test result:

It is herewith confirmed and found to comply with the requirements

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: Jan 06,2010

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

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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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General Details

Test Lab Details 1.1

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

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

Shenzhen, CHINA.

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

1.2 Applicant Details

Applicant: Guangzhou Sunday Electronics Co., Ltd.

NO.236-238, Minsheng Road, Lanhe Town, Panyu District, Guangzhou, China Address:

Telephone: 020-8492 8933/8492 8938

Fax: 020-8492 8823

1.3 Description of EUT

Product: Wireless Keyboard with Touchpad

Manufacturer: Guangzhou Sunday Electronics Co., Ltd.

Brand Name: SUNDAY Model Number: S-KW425TG Additional Model Number: N/A

Rating: DC5.0V, By to PC

1.4 Submitted Sample: 1 Sample

Test Duration: 2009-12-08 to 2009-12-28

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

lemy lang The sample tested by

Print Name: Terry Tong

Date: 2010-01-06



2.0 List of Measurement Equipment

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2009.2.24	1Year
LISN	NTFM8134	8134109	SCHWARZBECK	2009.2.24	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with					
Tracking Generator)	MS2661C	MT72089	ANRITSU	2009.2.23	1Year
Amplifier	MH648A	M20494	ANRITSU	2009.2.24	1Year
Bilog Antenna	CBL6101C	2576	CHASE	2009.2.23	1Year

2.3 Auxiliary Equipment

	7 1 1				
Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	FP51G	ET47604175CLO	BENQ	Mains cable	FCC DOC
Notebook	Vostro 1310		DELL		FCC DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Printer	BOISB-027-00		ESPON	Mains cable	FCC DOC
				Data cable of	
				1.5m length	
Mouse			DELL	unshielded	

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

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3.0 **Technical Details**

3.1 **Investigations Requested** Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

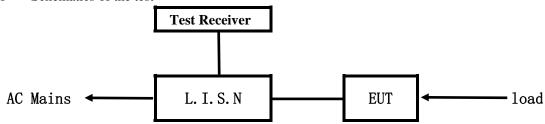
FCC Part 15 Subpart B: 2008

Date: 2010-01-06



4.0 Conducted Power line Test

4.1 Schematics of the test



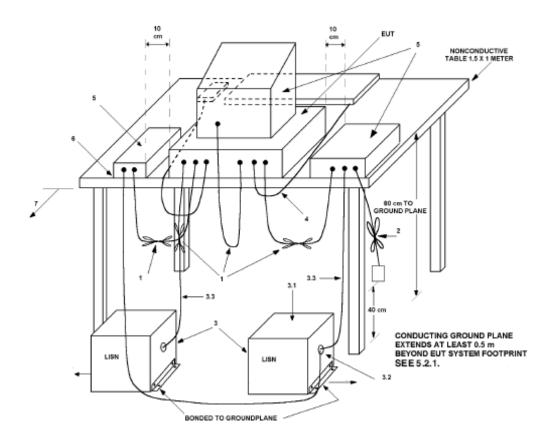
EUT: Equipment Under Test

4.2 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. Cables and peripherals were moved to find the maximum emission levels for each frequency.

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

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Eroguanov (MUz)	Class A Limits dB(μV)		Class B Limits dB(µV)			
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*		
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00		
5.00 ~ 30.00	73.00	60.00	60.00	50.00		

Notes:

- 1. *decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

4.4 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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EUT Operating Environment

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

EUT set Condition: Normal operation mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

80.0 dBuV



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.4713	Live	49.44	32.04	56.49	46.49
0.3803	Live	45.14	29.44	58.27	48.27
0.7720	Live	51.00	39.70	56.00	46.00
0.9231	Live	51.02	29.44	56.00	46.00
1.4134	Live	51.43	30.29	56.00	46.00
2.7176	Live	48.19	29.10	56.00	46.00

Date: 2010-01-06



EUT Operating Environment

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

EUT set Condition: Normal operation mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

80.0 dBuV Qp: AVG: 0.0 0.150 0.5 MHz 5 30.000

Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.3836	Neutral	48.05	36.25	58.20	48.20
0.4696	Neutral	52.14	40.24	56.52	46.52
0.7995	Neutral	46.79	33.49	56.00	46.00
0.8653	Neutral	46.76	33.16	56.00	46.00
1.3983	Neutral	48.89	42.33	56.00	46.00
1.5620	Neutral	52.56	38.67	56.00	46.00

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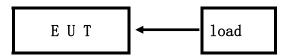
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

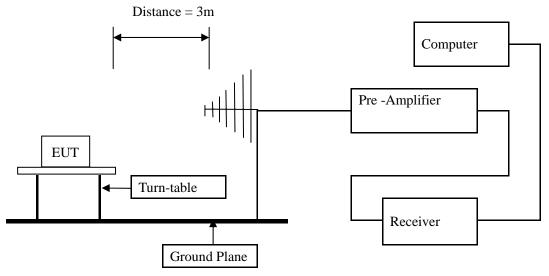


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

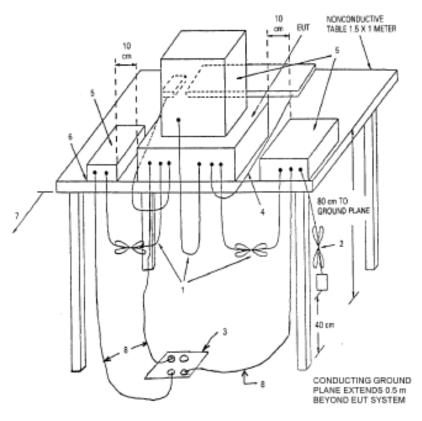
Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

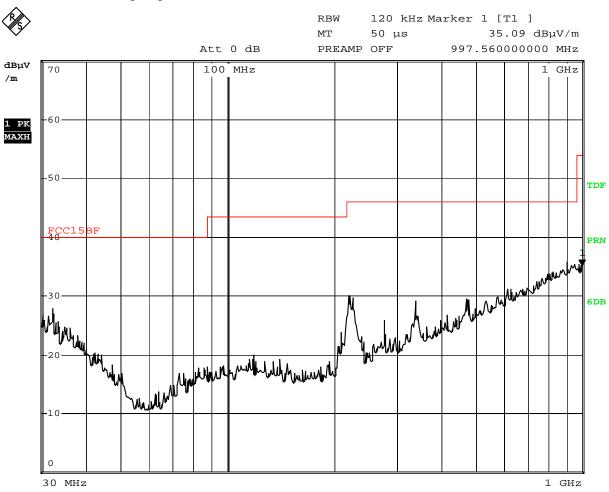
Date: 2010-01-06



EUT set Condition: Keep transmitting Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Date: 28.DEC.2009 19:48:51

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

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

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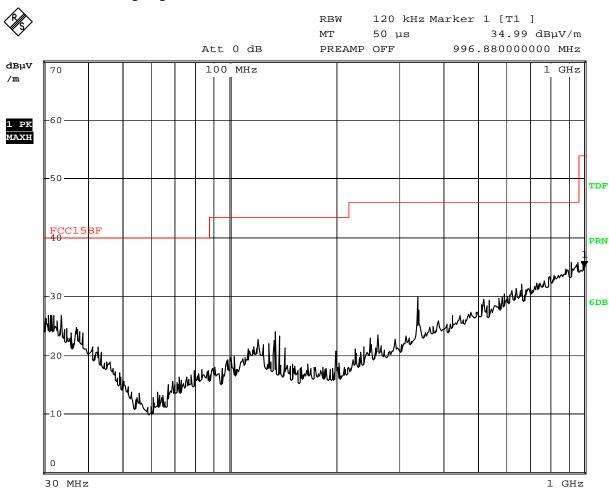
Date: 2010-01-06



EUT set Condition: Keep transmitting Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Date: 28.DEC.2009 19:49:48

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
		V	

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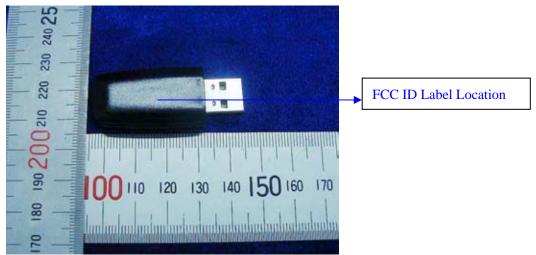
6.0 FCC ID Label

FCC ID: XQLSD0912410

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.

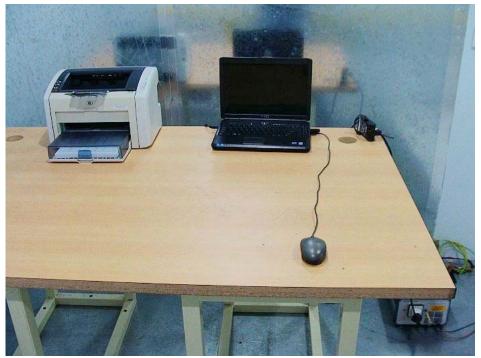
Mark Location:



Date: 2010-01-06



- 7.0 Photo of testing
- Conducted test View--7.1



7.2 Radiated emission test view--



-End of the report-

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