FCC TEST REPORT

for

Shenzhen Paoluy Silicone Technology Co., Ltd.

Bluetooth Keyboard Silicone Model No.: BL-84M, BL-BKB90TP, BL-BKB-121, BL-BKB-104TP

Prepared for : Shenzhen Paoluy Silicone Technology Co., Ltd.

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Prepared By : Anbotek Compliance Laboratory Limited

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Report Number : 201003727F

Date of Test : Mar. 25~31, 2010

Date of Report : Apr. 06, 2010

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APPENDIX I (Photos of EUT) (4 Pages)

TEST REPORT

Applicant : Shenzhen Paoluy Silicone Technology Co., Ltd.

Manufacturer : Shenzhen Paoluy Silicone Technology Co., Ltd.

EUT : Bluetooth Keyboard Silicone

Model No. : BL-84M, BL-BKB90TP, BL-BKB-121, BL-BKB-104TP

Serial No. : N/A

Rating : DC 5V via AC/DC Adapter;

DC 3V via Lithium Battery

Trade Mark : N/A

Measurement Procedure Used:

FCC Part15 Subpart C, Paragraph 15.207, 15.249 & 15.209

The device described above is tested by Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test:	Mar. 25~31, 2010
	Jacky
Prepared by:	
	(Engineer)
Reviewer :	Coco
	(Project Manager)
Approved & Authorized Signer:	Diti
Tapped to the familiarity of Signer 1	(Manager)
	(17tallager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Bluetooth Keyboard Silicone

Model Number : BL-84M, BL-BKB90TP, BL-BKB-121, BL-BKB-104TP

(Note: The above samples are same except the model number & Shape of appliances, so we prepare "BL-84M" for Radio test

only.)

Test Power Supply: AC 120V, 60Hz;

DC 3V via Lithium Battery

Adapter : Astec Power Co., Ltd.

M/N: AC-6C CE, FCC

Frequency: 2402~2480MHz

Antenna Gain : 0dBi

Applicant : Shenzhen Paoluy Silicone Technology Co., Ltd.

Address : No.31, furong road, gushu village, xixiang town, bao'an district,

shenzhen

Manufacturer : Shenzhen Paoluy Silicone Technology Co., Ltd.

Address : No.31, furong road, gushu village, xixiang town, bao'an district,

shenzhen

Date of receiver : Mar. 24, 2010 Date of Test : Apr. 06, 2010

1.2. Description of Test Facility

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

CNAS - LAB Code: L3503

Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 607248

Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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 607248, November 12, 2008.

IC-Registration No.: 8058A

Anbotek Compliance Laboratory Limited., 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 8058A, November 12, 2008.

Test Location

All Emissions tests were performed at

Anbotek Compliance Laboratory Limited. at 2/F, Langfeng Building, Kefa Road North, Hi-tech Industrial Park, Nanshan District, Shenzhen 518057, China

1.3. Measurement Uncertainty

Radiation Uncertainty : $Ur = \pm 4.26dB$

Conduction Uncertainty : $Uc = \pm 2.66dB$

2. MEASURING DEVICE AND TEST EQUIPMENT

2. NIEABUN	ING DEVICE		711 171131 7 1	<u> </u>		
Equipment	Manufacturer	Model #	Serial #	Data of Cal.	Due Data	
EMI Test Receiver	Rohde & Schwarz	ESCI	100119	Mar.03, 2010	Mar.02, 2011	
EMI Test Receiver	EMI Test Receiver Rohde & Schwarz		1101604	Jun.21, 2009	Jun.20, 2010	
EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	Sep.22, 2009	Sep.21, 2010	
EMI Test Software	SHURPLE	ESK1	N/A	N/A	N/A	
Spectrum Analyzer	Agilent	E7405A	MY45114970	Jun.21, 2009	Jun.20, 2010	
Signal Generator	Rohde & Schwarz	SMR27	100124	Jul.06, 2008	Jul.25, 2010	
Signal Generator	Rohde & Schwarz	SML03	102319	Aug.01, 2008	Aug.01, 2010	
AC Power Source	Sepcial power system	YF650	N/A	N/A	N/A	
Absorbing Clamp	Rohde & Schwarz	MDS21	100218	Apr.30, 2008	Apr.29, 2010	
Power Meter	Rohde & Schwarz	NRVD	101287	Jul.19, 2009	Jul.18, 2011	
Coaxial Cable	N/A	N/A	N/A	May.31, 2009	May.30, 2010	
Coaxial Cable	N/A	N/A	N/A	May.31, 2009	May.30, 2010	
Coaxial Cable	N/A	N/A	N/A	May.31, 2009	May.30, 2010	
Universal radio Communication tester	Rohde & Schwarz	CMU200	101724	Sep.08, 2009	Sep.07, 2011	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A	
BiConilog Antenna	ETS-LINDGREN	3142C	00042670	Mar.03, 2010	Mar.02, 2011	
BiConilog Antenna	ETS-LINDGREN	3142C	00042673	Mar.03, 2010	Mar.02, 2011	
Double-ridged Waveguide horn	ETS-LINDGREN	3117	00035926	Dec.30, 2009	Dec.29, 2011	
Double-ridged Waveguide horn	ETS-LINDGREN	3117	00041545	Dec.30, 2009	Dec.29, 2011	
Pre-amplifier	CD	PAM0203	804203	Jun.21, 2009	Jun.20, 2010	
RF Switch	CD	RSU-M3	706543	Jun.21, 2009	Jun.20, 2010	
Thermo-/Hygrometer	N/A	TH01	N/A	May.03, 2009	May.02, 2010	
Shielding Room	Zhong Yu Electronic	N/A	N/A	N/A	N/A	
3m Semi-Anechoic Chamber	Zhong Yu Electronic	N/A	N/A	Apr.28, 2008	Apr.27, 2010	

3. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

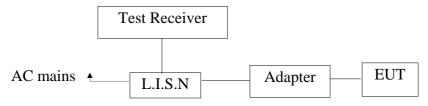
Freq (MHz) METER READING + ACF = FS 33 20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

4. Conducted Limits

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: Bluetooth Keyboard Silicone)

4.2. Power Line Conducted Emission Measurement Limits (15.207)

Frequency	Limits dB(μV)				
MHz	Quasi-peak Level	Average Level			
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*			
0.50 ~ 5.00	56	46			
5.00 ~ 30.00	60	50			

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

EUT : Bluetooth Keyboard Silicone

Model Number : BL-84M

Applicant : Shenzhen Paoluy Silicone Technology Co., Ltd.

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in test mode (Charging) and measure it.

4.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 4.6.

4.6. Power Line Conducted Emission Measurement Results **PASS.**

The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.

Anbotek Compliance Laboratory Limited

Voltage Mains FCC PART15 Class B

Bluetooth Keyboard Silicone M/N:BL-84M Shenzhen Paoluy Silicone Technology Co., Ltd. Manufacturer:

Operating Condition: Charging

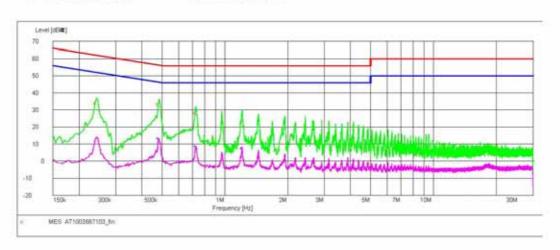
Test Site: 1# Shielding Room Operator: Jacky Test Specification: AC 120V,60Hz

Comment:

Start of Test: 2010-3-25 / 19:04:03

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "AT1003667103 fin"

2010-3-25 19:06

MHz dBµV dB dBµV dB	tor L	ine PE
0.242000 34.20 10.4 62 27.8 QP	L1	GND
0.482000 33.40 10.0 56 22.9 QP	L1	GND
0.726000 28.50 9.9 56 27.5 QP	L1	GND

MEASUREMENT RESULT: "AT1003667103_fin2"

2010-3-25 19:06

Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.482000	13.20	10.0	46	33.1	AV L	1 GND)
0.726000	8.80	9.9	46	37.2	AV LI	GND	
1.210000	7.40	9.9	46	38.6	AV L1	I GND	

Anbotek Compliance Laboratory Limited

Voltage Mains FCC PART15 Class B

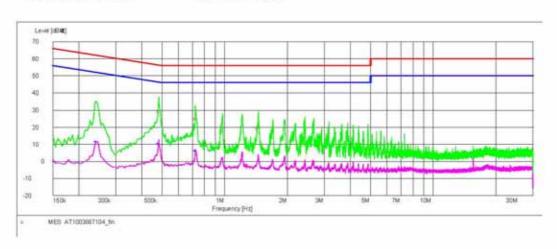
EUT: Bluetooth Keyboard Silicone M/N:BL-84M
Manufacturer: Shenzhen Paoluy Silicone Technology Co., Ltd.
Operating Condition: Charging
Test Site: 1# Shielding Room
Operator: Jacky
Test Specification: AC 1200 6080

Test Specification: AC 120V,60Hz Comment: N

Start of Test: 2010-3-25 / 19:07:28

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "AT1003667104 fin"

2010-3-25 19:09

4	NT0-3-59 TA							
	Frequency MHz	dBµV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.486000	29.60	10.0	56	26.6	QP N	GND	
	0.726000	25.10	9.9	56	30.9	QP N	GND	
	1.446000	19.70	9.9	56	36.3	OP N	GND	

MEASUREMENT RESULT: "AT1003667104 fin2"

2010-3-25 19:09

Frequency MHz	Level dBµV			Margin dB	Detector	Line	PE
0.242000	11.70	10.4	52	40.3	AV N	GNI)
0.482000	10.40	10.0	46	35.9	AV N	GNI)
0.726000	6.30	9.9	46	39.7	AV N	GND	

5. Radiation Interference

5.1. Requirements (15.249, 15.209):

FIELD STRENGTH	FIELD STRENGTH	S15.209	
of Fundamental:	of Harmonics	30 - 88 MHz	40 dBuV/m @3M
902-928 MHZ		88 - 216 MHz	43.5
2.4-2.4835 GHz		216 - 960 MHz	46
94 dBµV/m @3m	54 dBµV/m @3m	ABOVE 960 MHz	54dBuV/m

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 15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 4.3.

5.3 Test Results

PASS.

Please refer the following pages.

Data:

Horizontal CH Low(2402MHz)

CII Low(2 10211111	-)						
Frequency	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
MHz	dB	dB/m	dB	dBμV	$dB\mu V/m$	$dB\mu V/m$	dB	
200.15	1.3	10.57	41.24	61.87	32.50	43.50	-11.00	QP
714.02	2.6	18.85	39.49	51.44	33.40	46.00	-12.60	QP
2402.01	3.11	31.24	35.30	82.60	81.65	94.0	-12.35	Peak
4804.11	3.11	31.62	34.71	32.52	32.54	54.0	-21.46	Peak
7207.91	3.12	32.15	35.15	31.09	31.21	54.0	-22.79	Peak
9608.03	3.12	35.30	35.02	30.46	33.86	54.0	-20.14	Peak
12010.88	3.13	36.38	34.78	26.50	31.21	54.0	-22.79	Peak
14412.50	3.14	37.84	34.51	24.62	31.09	54.0	-22.91	Peak
16813.70	3.14	38.64	34.36	20.91	28.33	54.0	-25.67	Peak
19215.90	3.15	38.97	34.04	15.10	23.18	54.0	-30.82	Peak
21618.25	3.15	39.32	33.81	14.40	23.05	54.0	-30.95	Peak
24020.31	3.16	40.01	33.59	14.23	23.81	54.0	-30.19	Peak

CH Middle(2441MHz)

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBµV	Level dBµV/m	Limit dBµV/m	Over Limit dB	Remark
83.60	0.73	10.15	41.24	57.91	27.55	40.00	-12.45	QP
470.50	1.93	15.88	41.72	57.27	33.41	46.00	-12.59	QP
2441.05	3.11	31.25	35.90	84.87	83.33	94.0	-10.67	Peak
4882.15	3.11	31.61	34.73	33.60	33.59	54.0	-20.41	Peak
7323.30	3.12	32.16	35.17	33.53	33.64	54.0	-20.36	Peak
9763.56	3.12	35.31	35.00	30.80	34.23	54.0	-19.77	Peak
12205.09	3.13	36.40	34.79	28.60	33.34	54.0	-20.66	Peak
14646.41	3.14	37.85	34.50	23.91	35.04	54.0	-23.60	Peak
17087.12	3.14	38.60	34.35	20.88	28.27	54.0	-25.73	Peak
19528.35	3.15	38.98	34.04	19.54	27.63	54.0	-26.37	Peak
21969.60	3.15	39.32	33.81	15.42	24.08	54.0	-29.92	Peak
24410.41	3.16	40.01	33.62	15.00	24.55	54.0	-29.45	Peak

CH High	(2480MH	z)						
Frequency	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
MHz	dB	dB/m	dB	dΒμV	$dB\mu V/m$	$dB\mu V/m$	dB	
200.15	1.3	10.57	41.24	61.20	31.83	43.50	-11.67	QP
470.50	1.93	15.88	41.72	57.95	34.04	46.00	-11.96	QP
2479.90	3.11	31.32	36.00	83.62	82.05	94.0	-11.95	Peak
4960.15	3.11	31.63	34.80	33.25	33.19	54.0	-20.81	Peak
7439.22	3.12	32.16	35.20	32.93	33.01	54.0	-20.99	Peak
9920.71	3.12	35.31	34.98	29.95	33.40	54.0	-20.06	Peak
12400.46	3.13	36.40	34.79	31.44	36.18	54.0	-17.82	Peak
14879.50	3.14	37.88	34.50	28.52	35.04	54.0	-18.96	Peak
17360.15	3.15	38.60	34.35	21.20	28.60	54.0	-25.40	Peak
19839.06	3.15	39.00	34.04	18.16	26.27	54.0	-27.73	Peak
22320.21	3.16	39.40	33.76	16.10	25.80	54.0	-28.20	Peak
24800.35	3.17	40.12	33.60	15.23	24.92	54.0	-29.08	Peak

Vertical	(2402NALL	~)						
Frequency MHz	(2402MHz Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBµV	Level dBµV/m	Limit dBµV/m	Over Limit dB	Remark
125.60	0.92	9.75	41.26	59.52	28.93	43.50	-14.57	QP
468.26	1.93	15.88	41.72	59.85	35.94	46.00	-10.06	QP
2402.01	3.11	31.24	36.00	84.55	82.90	94.0	-11.10	Peak
4804.11	3.11	31.60	34.70	34.00	34.01	54.0	-19.99	Peak
7207.91	3.12	32.16	35.17	32.71	32.82	54.0	-21.18	Peak
9608.03	3.12	35.31	35.01	29.90	33.32	54.0	-20.68	Peak
12010.88	3.13	36.40	34.79	24.69	29.43	54.0	-24.57	Peak
14412.50	3.14	37.84	34.52	21.52	27.98	54.0	-26.22	Peak
16813.70	3.14	38.65	34.37	19.76	27.18	54.0	-26.82	Peak
19215.90	3.15	38.98	34.04	19.55	27.64	54.0	-26.36	Peak
21618.25	3.15	39.32	33.81	17.35	26.01	54.0	-27.99	Peak
24020.31	3.16	40.02	33.58	16.60	26.20	54.0	-27.80	Peak

CH Midd	le(2441M)	Hz)						
Frequency	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
MHz	dB	dB/m	dB	dΒμV	$dB\mu V/m$	$dB\mu V/m$	dB	
84.5	0.75	10.26	41.05	58.46	28.42	40.00	-11.58	QP
468.25	1.93	15.88	41.72	58.42	34.51	46.00	-11.49	QP
2441.05	3.11	31.25	35.90	81.38	79.84	94.0	-14.16	Peak
4882.15	3.11	31.61	34.72	35.60	35.60	54.0	-18.40	Peak
7323.30	3.12	32.16	35.17	31.94	32.05	54.0	-21.95	Peak
9763.56	3.12	35.31	35.00	32.35	35.78	54.0	-18.22	Peak
12205.09	3.13	36.40	34.79	28.95	33.69	54.0	-20.31	Peak
14646.41	3.14	37.85	34.50	23.32	29.81	54.0	-24.19	Peak
17087.12	3.14	38.60	34.35	20.74	28.13	54.0	-25.87	Peak
19528.35	3.15	38.98	34.04	18.33	26.42	54.0	-27.58	Peak
21969.60	3.15	39.32	33.81	17.07	25.73	54.0	-28.27	Peak
24410.41	3.16	40.01	33.62	14.91	24.54	54.0	-29.41	Peak

CH High	(2480MHz	2)						
Frequency	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
MHz	dB	dB/m	dB	dBμV	$dB\mu V/m$	$dB\mu V/m$	dB	
84.5	0.75	10.26	41.05	60.35	30.31	40.00	-9.69	QP
714.02	2.6	18.85	39.49	52.60	34.56	46.00	-11.44	QP
2479.90	3.11	31.32	36.00	84.87	83.30	94.0	-10.70	Peak
4960.15	3.11	31.63	34.80	35.00	34.94	54.0	-19.06	Peak
7439.22	3.12	32.16	35.20	35.01	35.11	54.0	-18.89	Peak
9920.71	3.12	35.31	34.98	29.50	32.95	54.0	-21.05	Peak
12400.46	3.13	36.40	34.79	28.80	33.54	54.0	-20.46	Peak
14879.50	3.14	37.88	34.50	23.95	30.47	54.0	-22.53	Peak
17360.15	3.15	38.60	34.35	21.77	29.17	54.0	-24.83	Peak
19839.06	3.15	39.00	34.04	18.42	26.53	54.0	-27.47	Peak
22320.21	3.16	39.40	33.76	16.70	25.50	54.0	-28.50	Peak
24800.35	3.17	40.12	33.60	14.41	24.10	54.0	-29.90	Peak

Emissions attenuated more than 20 dB below the permissible value are not reported.

6. Occupied Bandwidth

6.1. Requirements (15.249):

The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

6.2 Test Results

Pass.

Please refer the following plot.

