Application for FCC Certification On behalf of

Philips (China) Investment Co., Ltd.

Product Name: LED LAMPS

Model No.: 9290002265

FCC ID: O3M9290002265X

(MPE Calculation)

- Prepared For : Philips (China) Investment Co., Ltd. No.9, Lane 888, Tian Lin Road, 200233, Shanghai, China
- Prepared By : Audix Technology (Shanghai) Co., Ltd. 3F 34Bldg 680 Guiping Rd., Caohejing Hi-Tech Park, Shanghai 200233, China

Tel: +86-21-64955500 Fax: +86-21-64955491

Report No.:ACI-F13034Date of Test:Feb. 21, 2013Date of Report:Mar. 13, 2013

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TEST REPORT FOR FCC CERTIFICATE

Applicant		Philips (China) Investment Co., Ltd.			
Manufacturer	:	Philips (China) Investment Co., Ltd.			
Factory #1	:	CHANGAN WIN CHANNEL ELECTRONICS COMPANY LIMITED			
Factory #2 : Arts Electronics)., Lte	d.	
EUT Description		LED LAMPS			
		(A) Model No.	:	9290002265	
		(B) Power Supply	:	AC 110-130V, 50/60Hz	
		(C) Test Voltage	:	AC 120V/60Hz	

Test Procedure Used:

FCC OET Bulletin 65 August 1997

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC OET Bulletin 65.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: 9290002265), which was tested on Feb. 21, 2013 is technically compliance with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test :	Feb. 21, 2013	_ Date of Report : _	Mar. 13, 2013
Producer :	KATHY WANG / Assistant		
Review :	DIO YANG / Assistant Manager		
EUDIO [®] For a Audix Technology (Sha	nd on behalf of nghai) Co., Ltd.		
Signatory : Authorized Signature EM	Samola 1C SAMINIY CHEN/ Deputy Manager		

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description	:	LED LAMPS				
Type of EUT		\square Production \square Pre-product \square Pro-type				
Model Number	:	9290002265				
Radio Tech	:	IEEE 802.15.4 (ZigBee®)				
Freq. Band	:	2405 MHz - 2480 MHz Total 5 Channels: (2405 MHz, 2425 MHz, 2450 MHz, 2475 MHz, 2480 MHz)				
Tested Freq.	:	2405 MHz (Channel 01) 2450 MHz (Channel 03) 2480 MHz (Channel 05)				
Antenna Gain	:	-10 dBi				
Applicant	:	Philips (China) Investment Co., Ltd. No.9, Lane 888, Tian Lin Road, 200233, Shanghai, China				
Manufacturer	:	Philips (China) Investment Co., Ltd. No.9, Lane 888, Tian Lin Road, 200233, Shanghai, China				
Factory #1 :		CHANGAN WIN CHANNEL ELECTRONICS COMPANY LIMITED No.85, TONG GU XIA LU, SHANGJIAO COMMUNITY, CHANGAN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA				
Factory #2 :		Arts Electronics Co., Ltd. No.1 Shang Xing Lu, Shang Jiao Community, Chang An Town, Dongguan City, Guangdong Province 523000, China.				

1.3

1.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber)	: Sept. 17, 1998 file on Apr 29, 2009 Renewed Federal Communications Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, USA
Name of Firm	: Audix Technology (Shanghai) Co., Ltd.
Site Location	: 3 F 34 Bldg 680 Guiping Rd., Caohejing Hi-Tech Park, Shanghai 200233, China
FCC registration Number	: 91789
Accredited by NVLAP, Lab C	ode : 200371-0
Measurement Uncertainty	,

Output Power Expanded Uncertainty : U = 0.30 dB

2 SUMMARY OF STANDARDS AND RESULTS

2.1 Applicable Standard

FCC OET Bulletin 65:1997

2.2 Specification Limits

Limits for General Population/Uncontrolled Exposure						
Frequency	Electric Field	Magnetic Field Power		Averaging Time		
Range	Strength (E)	Strength (H)	Density (S)	$ E ^2$, $ H ^2$ or S		
(MHz)	(V/m)	(A/m)	(mW/cm^2)	(minutes)		
0.3-1.34	614	1.63	(100)*	30		
1.34-30	824/f	2.19/f	(180/f2)*	30		
30-300	27.5	0.073	0.2	30		
300-1500			f/150	30		
1500-100,000			1.0	30		
f = frequency in MHz *Plane-wave equivalent power density						

NOTE: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The limit value 1.0mW/cm^2 is available for this EUT.

2.3 MPE Calculation Method

 $S = PG/(4 \pi R^2)$

 $R = [PG/(4 \pi S)]^{0.5}$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

(the measured power value see Report: F12124 Section 6.6)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna (appropriate units, e.g., cm)

2.4 Calculated Result

Frequency	Output Power to Antenna	Antenna Gain		Power Density	Limit
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm^2)	(mW/cm^2)
2405	1.29	-10	0.1	0.0000257	1.0
2450	1.21	-10	0.1	0.0000241	1.0
2480	1.16	-10	0.1	0.0000231	1.0

2.4.1 Radio Frequency Radiation Exposure Evaluation

Separation distance R = 20cm.

Frequency	Output Power to Antenna	Antenna Gain		Limit	Distance
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm^2)	(cm)
2405	1.29	-10	0.1	1.0	0.101
2450	1.21	-10	0.1	1.0	0.098
2480	1.16	-10	0.1	1.0	0.096

The antenna used for this transmitter must be installed to provide a separation distance of at least 0.101cm from all persons.