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RF Exposure Evaluation Report

Product Dual Shade LED Lamp

with Bluetooth Speaker

Trade mark : OttLite

Model/Type reference : HSD9036A

Serial Number : N/A

 Report Number
 : EED32K00158502

 FCC ID
 : 2AI7B-HSD9036A

Date of Issue : Jul. 09, 2018

: 47 CFR Part 1.1307

Test Standards 47 CFR Part 1.1310

KDB 447498 D01v06

Test result : PASS

Prepared for:

Ottlite Technologies Inc.
220 West 7th Avenue, STE 100, Tampa,
Florida, United States

Prepared by:

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Kevin yang (Reviewer)

Date: Jul. 09, 2018

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Check No.: 2447690621









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2 Version

Version No.	Date	- 1	Description				
00	Jul. 09, 2018		Original				
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4 General Information

4.1 Client Information

Applicant:	Ottlite Technologies Inc.			
Address of Applicant:	220 West 7th Avenue, STE 100, Tampa, Florida, United States			
Manufacturer:	SHENZHEN HIGHSTAR ELECTRICAL CO.,LTD.			
Address of Manufacturer:	2F,4&5F, Building6, Ya Lian Highstar Industrial Zone, 5022 Wuhe Avenue, Bantian Street, Longgang District Shenzhen 518129 China			
Factory:	SHENZHEN HIGHSTAR ELECTRICAL CO.,LTD.			
Address of Factory:	2F,4&5F, Building6, Ya Lian Highstar Industrial Zone, 5022 Wuhe Avenue, Bantian Street, Longgang District Shenzhen 518129 China			

4.2 General Description of EUT

Product Name:	Dual Shade LED Lamp with Bluetooth Speaker				
Model No.(EUT):	HSD9036A	13			
Trade mark:	OttLite	(6)			
EUT Supports Radios application:	BT 4.2 Signal mode, 2402-2480MHz;				
Modulation Type:	GFSK, π/4DQPSK				
Sample Type:	Mobile production				
Antenna Type:	PCB antenna				
Antenna Gain:	-0.58 dBi				
Power Supply:	AC adapter: MODEL No.: TEKA024-0503000UK INPUT: 100-240V~50/60Hz, 0.7A MAX OUTPUT: 5V=3A	(3)			
Test Voltage:	AC 120V, 60Hz				
Hardware Version:	rev.1.2(manufacturer declare)				
Firmware version:	rev.2.4(manufacturer declare)				
Canduated Dook Output	-3.479dBm				
Conducted Peak Output Power:	The Conducted Peak Output Power data refer to the report EED32K00158501				
Sample Received Date:	Jun. 21, 2018				
Sample tested Date:	Jun. 21, 2018 to Jul. 05, 2018	/%			
The tested samples and the	e sample information are provided by the client.	(65)			



























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4.3 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.











































































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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

			180 B	
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/i 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6
(B) Limits	for General Populati	on/Uncontrolled Exp	osure	
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

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

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.



























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5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation

Antenna Gain: -0.58dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

		Max							
Channal	Frequency	Conducted	Gain	EIRP*	EIRP	R	S	Limit	Decult
Channel	(MHz)	Peak Output	(dBi)	(dBm)	(mW)	(cm)	(mW/cm ²)	(mW/cm ²)	Result
1/2		Power(dBm)							
LCH	2441	-3.479	-0.58	-4.059	0.393	20	0.0001	1.0	Pass

Note: Refer to report No. EED32K00158501 for EUT test Max Conducted Peak Output Power value.











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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00158501 for EUT external and internal photos.

*** End of Report ***

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