RADIO FREQUENCY EXPOSURE REPORT

FOR THE

Device: LED Nightlight
Model: LNL9ZA1CA

Report No.: 95723-24

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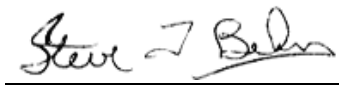
PREPARED FOR:
Leeo, Inc.
989 Commercial St.
Palo Alto, CA 94306

PREPARED BY:
Hieu Song Nguyenpham
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

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Purpose:

To demonstrate compliance with United States, Canada and/or European Union RF Exposure requirements for Portable equipment (devices used ≤20cm from the body) or Mobile equipment (devices used >20cm from the body) with power output below exemption levels and Mobile equipment, where Maximum Permissible Exposure (MPE) Calculations apply.

Device and Antenna Operating Configuration:

EUT is in continuous transmit mode. The EUT has 40 channels, 0 through 39 for BLE The EUT has 11 channels, 0 through 10 for Wifi EUT is setup in typical mounting configuration.

Test Procedure:

This equipment is evaluated in accordance with the guidelines set forth in OET Guide 65 & ANSI C95.1 for the US and Health Canada Safety Code 6 & RSS 102 for Canada.

Other Considerations:

The EUT is Mobile equipment which is used > 20 cm from the body.

MPE Calculations

Applicability:

Limit Used	**X**	General Population / Uncontrolled Exposure
		Occupational / Controlled Exposure
RF Exposure Exemption	Yes	United States
	Yes	Canada
	No	Europe

Equipment operational details (BLE only)

Config #	*Operating Frequency (MHz)*	*Measured Output Power (dBm)*	*Antenna Gain (dBi)*	*Antenna Type / Configuration*	*EIRP (dBm)*
1	2401.751	7.4	-3	integral	4.4

Measurements based from EMC Test Report(s): 95723-15 and 95723-16

MPE Calculation:

$$Power\,Density = \frac{EIRP}{4\pi d^2}$$ Given: **EIRP** in *mW* or W and **d** in *cm or m*

Config #	*Distance (cm)*	*US (1.1310)*		*Canada (RSS-102)*		*EU (ICNIRP)*	
		Power Density (mW/cm^2)	*Limit (mW/cm^2)*	*Power Density (W/m^2)*	*Limit (W/m^2)*	*Power Density (W/m^2)*	*Limit (W/m^2)*
1	20	5.48214 X 10^-4	1	5.48214X 10^-3	10	--	--

Equipment operational details (Wifi only)

Config #	*Operating Frequency (MHz)*	*Measured Output Power (dBm)*	*Antenna Gain (dBi)*	*Antenna Type / Configuration*	*EIRP (dBm)*
2	2412	18.41	-3	integral	15.41

Measurements based from EMC Test Report(s): 95723-17 and 95723-18

MPE Calculation:

$$Power\,Density = \frac{EIRP}{4\pi d^2}$$ Given: **EIRP** in *mW* or W and **d** in *cm or m*

Config #	*Distance (cm)*	*US (1.1310)*		*Canada (RSS-102)*		*EU (ICNIRP)*	
		Power Density (mW/cm^2)	*Limit (mW/cm^2)*	*Power Density (W/m^2)*	*Limit (W/m^2)*	*Power Density (W/m^2)*	*Limit (W/m^2)*
2	20	0.0069175	1	0.069175	10	--	--

Equipment operational details (Wifi + BLE (assume the power linearly adds))

Config #	*Operating Frequency (MHz)*	*Measured Output Power (dBm)*	*Antenna Gain (dBi)*	*Antenna Type / Configuration*	*EIRP (dBm)*
3	2412 and 2401.751	18.41 and 7.4	-3	integral	22.81 (assume for power linearly adds)

Measurements based from EMC Test Report(s): 95723-15, 95723-16, 95723-17 and 95723-18

MPE Calculation:

$$Power\,Density = \frac{EIRP}{4\pi d^2}$$ Given: **EIRP** in *mW* or W and **d** in *cm or m*

Config #	*Distance (cm)*	*US (1.1310)*		*Canada (RSS-102)*		*EU (ICNIRP)*	
		Power Density (mW/cm^2)	*Limit (mW/cm^2)*	*Power Density (W/m^2)*	*Limit (W/m^2)*	*Power Density (W/m^2)*	*Limit (W/m^2)*
3	20	0.038014	1	0.38014	10	--	--

Summary:

Exemptions:
In the case the equipment meets compliance requirements by exemption the product is approved for use under mobile or portable conditions without further testing under the condition that any additional collocation or simultaneous transmission requirements (including necessary separation distances) have been met.

MPE Calculation Results:

In the case the equipment meets compliance by MPE Calculations the product is approved for use under mobile conditions without further testing under the condition that any additional collocation or simultaneous transmission requirements (including necessary separation distances) have been met. It is assumed that the manufacturer shall design the equipment such that the minimum separation distance of 20cm (or greater, as listed above) is met or that the manufacturer provides a protection guide (or installation instructions) to the end user such that the antenna(s) may be installed in accordance with the manufacturer's instructions in such a manor to maintain the minimum separation distance.

The Absorption and distribution of Electromagnetic energy in the body is a very complex phenomena that depends on the mass, shape and physiological condition of the body; the orientation of the body with respect to the fields; and, the electrical properties of the body and the environment. Variables that may play a substantial role in possible biological effects are those that characterize the environment (including but not limited to: ambient temperature, air velocity, relative humidity and body insulation); and those that characterize the individual (including but not limited to: age, gender, activity level and existing debilitation or disease). Because innumerable factors may interact to determine specific biological effects of exposure to electromagnetic fields, any protection guide should consider both intended and unintended operational environments and provide guidance for installation and use of the product such that proper separation distances can be maintained. (ANSI C95.1)

References

Federal Communications Commission Knowledge Database (KDB) Publication 447498, “What are the RF exposure requirements and procedures for mobile and portable devices?” As in effect on the issue date of this report.

Federal Communications Commission Bulletin OET 65 Supplement C, “Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields” June 2001.

Title 47 Code of Federal Regulations, Part 1.1310, “Radiofrequency radiation exposure limits.” As in effect on the issue date of this report.

Title 47 Code of Federal Regulations, Part 2.1091, “Radiofrequency radiation exposure evaluation: mobile devices.” As in effect on the issue date of this report.

Health Canada Safety Code 6 Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz, 2009.

Health Canada Safety Code 6 Technical Guide, 2009

Industry Canada RSS-102 Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Issue 4, March 2010 (including update December, 2010).

International Commission on Non-Ionizing Radiation Protection. Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). Health Physics 74 (4): 494-522; 1998.

International Commission on Non-Ionizing Radiation Protection Statement on the "Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields (up to 300 GHz). Health Physics 97(3):257-259; 2009.

European Committee for Electrotechnical Standardization. European Normative, EN 50371 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz) 2002.