Addendum to
RADIO FREQUENCY EXPOSURE REPORT 96421-8

FOR THE

Device: Plug Load Controller Unit
Model: PC-01-20

Report No.: 96421-8A

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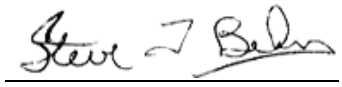
The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report 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.



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Revision History

Original: December 31, 2014 Radio Frequency Exposure Report for the Plug Load Controller Unit Model: PC-01-20.
Addendum A: To remove reference to 96421-6 test report.

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:

The EUT is in continuous transmit mode. The EUT has 16 channels, 11 through 26 The 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, Health Canada Safety Code 6 & RSS 102 for Canada and European Union Compliance Requirements (ICNIRP).

Other Considerations:

None

MPE Calculations

Applicability:

Limit Used	**X**	General Population / Uncontrolled Exposure
		Occupational / Controlled Exposure
RF Exposure Exemption	Yes	United States
	Yes	Canada

Equipment operational details:

Config #	*Operating Frequency (MHz)*	*Measured Output Power (dBm)*	*Antenna Gain (dBi)*	*Antenna Type / Configuration*	*EIRP (dBm)*
1	2405.420 MHz	NA	NA	integral	6.671

Measurements based from EMC Test Report(s): 96421-7 and 96421-9

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	9.24E-04	--	9.24E-03	--	9.24E-03	--

Exemption Level:

United States Compliance Requirements (1.1310):
Power output $<60/f_{GHz}$ (mW) < 60/2.405 <25mW
Canadian Compliance Requirements (RSS-102):
Power output < 20mW
European Union Compliance Requirements (ICNIRP):
Power output < 20mW

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 62479 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.