

# **RF Exposure Report**

Project Number: 4711959

Proposal Number: 11802

Report Number: 4711959EMC03

Revision Level: 0

Client: Coulomb, Inc.

Equipment Under Test: Lumin Smart Panel

Model: LS-100212

Contains FCC ID: 2AY52-LSPFN13WLAN

Applicable Standards: 47 CFR §§ 2.1091 FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 18 June 2021

**Result:** Compliant



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

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Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## **1** General Information

## 1.1 Client Information

Name: Coulomb, Inc. Address: 212 E Main Street, Suite 202 City, State, Zip, Country: Charlottesville, VA 22902, USA

## 1.2 Test Laboratory

Name: SGS North America, Inc. Address: 620 Old Peachtree Road NW, Suite 100 City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA Type of Lab: Testing Laboratory Certificate Number: 3212.01

## 1.3 General Information of EUT

Equipment Under Test: Model: Sample ID:	LS-100212
Contains FCC ID:	2AY52-LSPFN13WLAN
Frequency Range: Data Modes:	2412 – 2462 MHz WLAN IEEE 802.11b/g/n(HT20 & HT40) (DSSS, OFDM) (Note: Module also has BLE capability, but it is disabled in this host.)
	16.72 dBm (47 mW) External Omni-directional Dipole Antenna (2.8 dBi peak gain)
0	120/240Vac 60Hz (single/dual phase) 120/240Vac 60Hz (dual phase)
Sample Received Date: Dates of testing:	09 December 2020 02-19 March 2021



## 2 RF Exposure

## 2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

## 2.2 Test Method

Using the maximum conducted power obtained from the original FCC grant for the module, the power density was calculated. The peak gain of the antenna used in the new host was assumed for this exercise.

## 2.3 Single transmission RF Exposure Levels (mW/cm<sup>2</sup>)

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	e EIRP	Distance (R)	Power Density EIRP <sub>Avg</sub> /(4πR <sup>2</sup> )	FCC	% of Limit	Verdict
Туре	MHz	dBm			dBm	mW	cm	mW/cm <sup>2</sup>	mW/cm <sup>2</sup>		
WLAN 2.4	2400-2483.5	16.7	2.8	0.0	19.5	90	20	0.018	1.00	2%	Pass



## 4 Revision History

Revision Level	Description of changes	Revision Date
0	Initial Release	18 June 2021