



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Centralite Systems

Model: 3141

Description: Villa 3-Button In-Wall Dimmer

Serial Number: N/A

FCC ID: T3L-SS040

IC: 12192A-SS040

To

FCC Part 1.1310

Date of Issue: July 3, 2017

On the behalf of the applicant:

**Centralite Systems
1000 Cody Road South
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Attention of:

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**Prepared By
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Project No: p1740001**

**Alex Macon
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	April 12, 2017	Alex Macon	Original Document
2.0	May 31, 2017	Amanda Reed	Updated model information
3.0	July 3, 2017	Alex Macon	Updated to SAR exclusion for 5mm

ILAC / A2LA

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The tests results contained within this test report all fall within our scope of accreditation, unless below

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: 3141

Description: Villa 3-Button In-Wall Dimmer

Firmware: N/A

Software: N/A

Serial Number: N/A

Additional Information:

The EUT is a wall mounted switched intended to control lighting in a residential environment. It incorporates a 2.4 GHz radio which spans from 2405MHz – 2480MHz with an emissions designator 2M52F7D



Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Peak EIRP (mW)	Duty Cycle (%)	Average Power (mW)
2405	2.32	100	2.32mW

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}]$$

 ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁵ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁶
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is $<$ 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

$$[(2.32)/(5)] * [\sqrt{2.405}] = 0.72$$

The outcome is below the exclusion limit.

END OF TEST REPORT