

RF Exposure Report

Report No.: SA171205C01

FCC ID: ASU-CLIW200

Test Model: CLI-W200WXXX, CLI-W200BXXX (XXX Can be 0-9, - or Blank.)

Received Date: Dec. 05, 2017

Date of Evaluation: Mar. 12, 2018

Issued Date: Mar. 14, 2018

Applicant: Savant Systems LLC

Address: 45 Perseverance Way, Hyannis MA 02601 USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA171205C01	Original Release	Mar. 14, 2018

1 Certificate of Conformity

Product: Savant WiFi Thermostat With Touchscreen

Brand: SAVANT

Test Model: CLI-W200WXXX, CLI-W200BXXX (XXX Can be 0-9, - or Blank.)

Sample Status: Identical Prototype

Applicant: Savant Systems LLC

Date of Evaluation: Mar. 12, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



Date:

Mar. 14, 2018

Gina Liu / Specialist

Approved by :



Date:

Mar. 14, 2018

Dylan Chiou / Project Engineer

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.
So, this device is classified as **Mobile Device**.

2.4 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	21.5	0.91	20	0.035	1
5180-5240	18.5	2.34	20	0.024	1
5260-5320	18.5	2.34	20	0.024	1
5500-5700	18.5	2.48	20	0.025	1
5745-5825	18.5	2.57	20	0.025	1
BT LE	4.5	0.91	20	0.001	1

Note: The WLAN 2.4G, WLAN 5G and BT cannot transmit simultaneously.

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