TIMCO ENGINEERING, Inc.
www.timcoengr.com

849 NW STATE ROAD 45
NEWBERRY, FL 32669 USA
PH: 888.472.2424 OR 352.472.5500
FAX: 352.472.2030
EMAIL: INFO@TIMCOENGR.COM
HTTP://WWW.TIMCOENGR.COM

RF Exposure Evaluation Report

APPLICANT	VERDANT ENVIRONMENTAL TECHNOLOGIES
	1850 55E AVENUE LACHINE QUEBEC H8T 3J5 CANADA
FCC ID	XEYV
IC	8410A-V
MODEL NUMBER	V
PRODUCT DESCRIPTION	THERMOSTAT
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Cory Leverett

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and meets the requirements.

GENERAL REMARKS

Attestations

This equipment has been evaluated in accordance with the standards identified in this report. To the best of my knowledge and belief, these evaluations were performed using the procedures described in this report.

I attest that the necessary evaluations were made, under my supervision, at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669

Cory Leverett

Engineering Project Manager

Date: 1/30/2017

RF Exposure Requirements

General information

Device type: THERMOSTAT

Antenna

Configuration	Antenna p/n	Type	Max. Gain (dBi)
Integral	Any	Wire	2.15

MPE Calculation:

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power density: } P_d(mW/cm^2) = \frac{E^2}{3770}$$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1.

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Insert values in yellow highlighted boxes to determine Minimum Separation Distance						
Max Power	0.008	W	*equals*	Max Power	8	mW
Duty Cycle	100	%	*equals*	Duty Factor	1	numeric
Antenna Gain	2.15	dBi	*equals*	Gain numeric	1.64059	numeric
Coax Loss	0	dB		Gain - Coax Lo	1.64059	numeric
Power Density	0.6	mW/cm^2				
Enter power Density from the chart to the right				**Rule Part 1.1310, Table 1 (B)**		
Frequency	927.6	MHz		**Frequency ran**	**Power de**	**Enter this value**
				MHz	**mW/cm^2**	**mW/cm^2**
				0.3-1.34	100	**100**
				1.34-30	$180/f^2$	**0.0**
				30-300	0.2	**0.2**
				300-1,500	f/1500	**0.6**
				1,500-100,000	1	**1**
				f = frequency in MHz		

Minimum Separation Distance	**1 cm**	**0.01 m**

Minimum Seperation in Inches	0.519038	Inches

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Report: 58AUT17RF EXP MPE RPT