



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](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.

The attached report shall not be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

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

Applicant: VERDANT ENVIRONMENTAL TECHNOLOGIES
FCC ID: XEYV
IC: 8410-V
Report: 58AUT17RF EXP MPE RPT

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:

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

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

Applicant: VERDANT ENVIRONMENTAL TECHNOLOGIES
FCC ID: XEYV
IC: 8410-V
Report: 58AUT17RF EXP MPE RPT

Insert values in yellow highlighted boxes to determine Minimum Separation Distance																										
Max Power	0.008	W	<i>equals</i>	Max Power	8 mW																					
Duty Cycle	100	%	<i>equals</i>	Duty Factor	1 numeric																					
Antenna Gain	2.15	dBi	<i>equals</i>	Gain numeric	1.64059 numeric																					
Coax Loss	0	dB		Gain - Coax Loss	1.64059 numeric																					
Power Density	0.6	mW/cm ²																								
Enter power Density from the chart to the right																										
Frequency	927.6	MHz		Rule Part 1.1310, Table 1 (B) <table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th>Frequency range</th> <th>Power density</th> <th>Enter this value</th> </tr> <tr> <th>MHz</th> <th>mW/cm²</th> <th>mW/cm²</th> </tr> </thead> <tbody> <tr> <td>0.3-1.34</td> <td>100</td> <td style="border: 2px solid red; border-radius: 50%;">100</td> </tr> <tr> <td>1.34-30</td> <td>180/f²</td> <td style="border: 2px solid red; border-radius: 50%;">0.0</td> </tr> <tr> <td>30-300</td> <td>0.2</td> <td style="border: 2px solid red; border-radius: 50%;">0.2</td> </tr> <tr> <td>300-1,500</td> <td>f/1500</td> <td style="border: 2px solid red; border-radius: 50%;">0.6</td> </tr> <tr> <td>1,500-100,000</td> <td>1</td> <td style="border: 2px solid red; border-radius: 50%;">1</td> </tr> </tbody> </table>		Frequency range	Power density	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
Frequency range	Power density	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 Separation in Inches		0.519038 Inches																								

Applicant: VERDANT ENVIRONMENTAL TECHNOLOGIES
 FCC ID: XEYV
 IC: 8410-V
 Report: 58AUT17RF EXP MPE RPT