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RF Exposure Evaluation Report

APPLICANT	CRESCEND TECHNOLOGIES, LLC	
	140 E. State Parkway SCHAUMBURG IL 60173 USA	
FCC ID	CWWDSDTUH50	
MODEL NUMBER	DSDUH50	
PRODUCT DESCRIPTION	UHF AMPLIFIER	
STANDARD APPLIED	CFR 47 Part 2.1091	
PREPARED BY	Franklin Rose	

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

Authorized Signatory Name:

Franklin Rose, Project Manager / Testing Technician

Date: 02/27/2018



RF Exposure Requirements

General information

Device type: UHF AMPLIFIER

<u>Antenna</u>

The manufacturer does not specify an antenna, but a typical antenna has a gain of 5 dBi.

Configuration	Antenna p/n	Туре	Max. Gain (dBi)
Fixed mounted	Any	omni	5

Operating configuration and exposure conditions:

The conducted output power is shown in the table below. Typical use qualifies for a maximum duty cycle factor of 100%.



MPE Calculation:

The minimum separation distance is calculated as follows:

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

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.1310, Table 1.

