



**FCC RF EXPOSURE REPORT
CERTIFICATION TEST REPORT**

For

EATON VOICE DIMMER

MODEL NUMBER: WFAVD30

FCC ID: ZVAOH000024

IC: 9976A-OH000024

REPORT NUMBER: 4789620349.1-4

ISSUE DATE: September 22, 2020

Prepared for

**TCL TECHNOLOGY ELECTRONICS (HUIZHOU) CO., LTD.
SECTION 37, ZHONGKAI HIGH-TECH DEVELOPMENT ZONE, HUIZHOU CITY,
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Prepared by

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Revision History

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TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. REQUIREMENT	6



1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: TCL Technoly Electronics (Huizhou) Co., Ltd.
Address: Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, P.R. China

Manufacturer Information

Company Name: TCL Technoly Electronics (Huizhou) Co., Ltd.
Address: Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, P.R. China

EUT Information

EUT Name: Eaton Voice Dimmer
Model: WFAVD30
Brand: EATON
Sample Received Date: August 27, 2020
Sample Status: Normal
Sample ID: 3319105
Date of Tested: August 27, 2020 ~ September 21, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011</p>
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Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.



4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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

CALCULATION METHOD

$$S = PG / 4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna



CALCULATED RESULTS

The Worst case of BLE Mode					
Frequency Range	Output Power	Output Power	Power Density	Power Density Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	--
2402-2480	6.0	3.981	0.00112	1.0	Complies

The Worst case of WIFI Mode					
Frequency Range	Output Power	Output Power	Power Density	Power Density Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	--
2412-2462	17.0	50.119	0.0141	1.0	Complies

- Note: 1. Antenna Gain=1.5 dBi (Numeric 1.41), $\pi=3.141$.
2. The Power comes from OD.
3. The minimum separation distance of the device is greater than 20 cm.
4. Calculated by WORST-CASE mode.
5. BLE and 2.4 G WiFi don't support simultaneous emission.

END OF REPORT