

## RF Exposure Report

**Report No.:** SA191211C28-2 R1

**FCC ID:** TK4WLE600VX

**Test Model:** WLE600VX

**Received Date:** Dec. 11, 2019

**Date of Evaluation:** Feb. 27, 2020

**Issued Date:** Mar. 02, 2020

**Applicant:** Compex Systems Pte Ltd

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

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN

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



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### Release Control Record

Issue No.	Description	Date Issued
SA191211C28-2	Original Release	Feb. 03, 2020
SA191211C28-2 R1	<ol style="list-style-type: none"><li>1. Remove WLAN 5GHz Band 2 &amp; 3</li><li>2. Update WLAN power &amp; recalculate MPE</li></ol>	Mar. 02, 2020

## 1 Certificate of Conformity

**Product:** 802.11ac Dual Band Module

**Brand:** COMPEX

**Test Model:** WLE600VX

**Sample Status:** Engineering Sample

**Applicant:** Compex Systems Pte Ltd

**Date of Evaluation:** Feb. 27, 2020


**Standards:** FCC Part 2 (Section 2.1091)

**References Test** KDB 447498 D01 General RF Exposure Guidance v06

**Guidance :**  
IEEE C95.3 -2002

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 RF characteristics under the conditions specified in this report.

**Prepared by :** , **Date:** Mar. 02, 2020  
Rona Chen / Specialist

**Approved by :** , **Date:** Mar. 02, 2020  
Dylan Chiou / Senior 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 <sup>2</sup> )	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 <sup>2</sup> )*	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/cm<sup>2</sup>

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**.

The EUT is authorized for use in specific End-product. Please refer to below for more details.

Product	Band	Model
Networking device	CITRIX	SD-WAN 110-WiFi

## 2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Average Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN	2412-2462	21.99	5.61	20	0.114	1.00
	5180-5240	21.71	8.01	20	0.187	1.00
	5745-5825	24.33	8.01	20	0.341	1.00

Note:

1. WLAN 2.4GHz and WLAN 5GHz Band cannot transmit simultaneously.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
3. 2.4GHz: Directional gain = 2.6 dBi + 10log(2) = 5.61 dBi  
5.0GHz: Directional gain = 5.0 dBi + 10log(2) = 8.01 dBi

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