

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
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Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
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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	1. Remove WLAN 5GHz Band 2 & 3 2. Update WLAN power & recalculate MPE	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

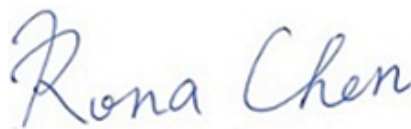
Date of Evaluation: Feb. 27, 2020

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance : KDB 447498 D01 General RF Exposure Guidance v06
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.

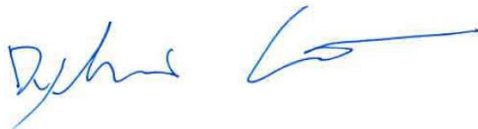
Prepared by :



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 ²)	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 ²)*	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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 ²)	Limit (mW/cm ²)
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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