Report No.:	SA180927E05
FCC ID:	W59XWC2000
Test Model:	XWC-2000
Received Date:	Nov. 06, 2018
Test Date:	Jan. 30, 2019
Issued Date:	Mar.13, 2019
Applicant:	Luxul Wireless
Address:	12884 S. Frontrunner Blvd, Suite 201 Draper, UT 84020 USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
FCC Registration / Designation Number:	723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
SA180927E05	Original release.	Mar.13, 2019

1 Certificate of Conformity

Product:	Wireless Controller
Brand:	Luxul
Test Model:	XWC-2000
Sample Status:	ENGINEERING SAMPLE
Applicant:	Luxul Wireless
Test Date:	Jan. 30, 2019
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

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 EMC characteristics under the conditions specified in this report.

Prepared by : Phoenix Huang , **Date:** Mar.13, 2019

Phoenix Huang / Specialist

Approved by : , **Date:** Mar.13, 2019

May Chen / Manager

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

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

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**.

2.4 Antenna Gain

Ant. No.	Brand	Model	Antenna Gain (dBi)	Frequency range (MHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Walsin Technology Coporation	RFPCA302207IMAB301	1.51	2400~2500	PCB	i-pex(MHF)	70
2	Alpha	1WC2000ANTA1G	0.93	2400~2500	PCB	i-pex(MHF)	70
Note: Max. gain was selected for the final test.							

2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
BT-EDR	2480	7.43	1.51	20	0.00209	1
BT-LE	2480	7.311	1.51	20	0.00206	1

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