	BU REAU VERITAS
	RF Exposure Report
Report No.:	SA190319E02
FCC ID:	NKR-LVSK-IDU
Test Model:	LVSKIDU
Received Date:	Mar. 19, 2019
Test Date:	May 19, 2019
Issued Date:	June 12, 2019
Applicant:	Wistron NeWeb Corp.
Address:	20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan, R.O.C.
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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uncertainty of measurement has been ex	plicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be cation, approval, or endorsement by any government agencies.



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	Release Control Record	
Issue No.	Description	Date Issued
SA190319E02	Original release.	June 12, 2019



Certificate of Co-iformityProduct:LVSKIDUBrand:WNCTest Model:LVSKIDUSample Status:ENGINEERING SAMPLEApplicant:Wistron NeWeb Corp.Test Date:May 19, 2019Standards:FCC Part 2 (Section 2.1091)KDB 447498 D01 General RF Exposure Guidance v06IEEE 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 / Specialist	, Date:	June 12, 2019
Approved by :	May Chen / Manager	, Date:	June 12, 2019

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2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic FieldPower DensityStrength (A/m)(mW/cm²)		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 20 cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Frequency	57	45	57	'85	58	325	Antenna	Antenna
(MHz) Directional Antenna				enna Gain (nna Gain (dBi)			Connector
	XZ	4.69	XZ	4.84	XZ	4.79	РСВ	
Vertical-Pol	ΥZ	2.93	ΥZ	2.60	ΥZ	2.49		i-pex(MHF)
	XY	4.12	XY	4.08	XY	4.20		
	XZ	4.41	XZ	4.67	XZ	4.36		
Horizontal-pol	ΥZ	1.24	ΥZ	1.43	ΥZ	1.51	PCB	i-pex(MHF)
	XY	4.94	XY	5.09	XY	4.73		
Note: More detailed information, please refer to operating description.								



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)
WLAN	5795	992.471	5.09	20	0.63745	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. The directional gain = 5.09dBi

3. The Max. Power = Max. tune up power including tolerance declared by client.

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