	BUREAU VERITAS
	RF Exposure Report
Report No.:	SA190319E02C
FCC ID:	NKR-LVSK-IDU
Test Model:	LVSKIDU
Received Date:	May 19, 2019
Test Date:	May 19, 2019
Issued Date:	July 01, 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
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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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	cation, approval, or endorsement by any government agencies.



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	Release Control Record								
Issue No.	Description		Date Issued						
SA190319E02C	Original release.		July 01, 2019						
Report No.: SA190319E	02C	Page No. 3 / 6	Report Format Version: 6.1.1						



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:	July 01, 2019	
Approved by :	May Chen / Manager	, Date:	July 01, 2019	_

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2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric FieldMagnetic FieldStrength (V/m)Strength (A/m)		Power Density (mW/cm ²)	Average Time (minutes)					
Limits For General Population / Uncontrolled Exposure									
0.3-1.34	0.3-1.34 614		(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	5500 5		56	500 5700		00	5745		5785		5825		Antenna	Antenna
(MHz)	Directional Antenna Gain (dBi)											Туре	Connector	
	XZ	4.27	ΧZ	4.27	ΧZ	4.47	ΧZ	4.69	ΧZ	4.84	ΧZ	4.79		
Vertical-Pol	ΥZ	3.35	ΥZ	2.70	ΥZ	2.73	ΥZ	2.93	ΥZ	2.60	ΥZ	2.49	PCB	i-pex(MHF)
	XY	3.24	XY	3.58	XY	4.02	XY	4.12	XY	4.08	XY	4.20		
	XZ	4.53	XZ	4.44	XZ	4.34	XZ	4.41	XZ	4.67	XZ	4.36		
Horizontal-pol	ΥZ	2.19	ΥZ	1.56	ΥZ	1.39	ΥZ	1.24	ΥZ	1.43	ΥZ	1.51	PCB	i-pex(MHF)
	XY	4.47	XY	4.82	XY	4.89	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

For 5GHz (U-NII-2C band) the Maximum power was refer to the FCC test report (Report No.: RF190319E02B-1)

For 5GHz (U-NII-3 band) data was copied from the original test report (Report No.: SA190319E02)

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN (U-NII-2C)	5610	248.291	4.89	20	0.15230	1
WLAN (U-NII-3)	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.
- 5GHz (U-NII-2C): The directional gain = 4.89dBi
 5GHz (U-NII-3): The directional gain = 5.09dBi
- 3. The Max. Power = Max. tune up power including tolerance declared by client.

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