

RF Exposure Report

Report No.: MFBHKI-WTW-P22030722

FCC ID: NKRUMC-STD31BPN

Test Model: UMC-STD31BPN

Received Date: May 05, 2022

Test Date: May 09 ~ May 17, 2022

Issued Date: Jul. 19. 2022

Applicant: Wistron NeWeb Corporation

Address: 20 Park Ave. II, Hsinchu Science Park, Hsinchu 308, Taiwan

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 (1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, TAIWAN

FCC Registration / 788550 / TW0003

Designation Number:

Test Location (2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / 281270 / TW0032

Designation Number:





This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Report No.: MFBHKI-WTW-P22030722 Page No. 1 / 6 Report Format Version: 6.1.1



Table of Contents

Relea	se Control Record	. 3
1	Certificate of Conformity	. 4
2	RF Exposure	. 5
2.2	Limits for Maximum Permissible Exposure (MPE)	. 5
2.3	Classification	. 5
3	Calculation Result of Maximum Conducted Power	. 6



Release Control Record

Issue No.	Description	Date Issued
MFBHKI-WTW-P22030722	Original release	Jul. 19. 2022



1 Certificate of Conformity

Product: Cellular module

Brand: WNC

Test Model: UMC-STD31BPN

Sample Status: Engineering sample

Applicant: Wistron NeWeb Corporation

Test Date: May 09 ~ May 17, 2022

FCC Rule Part: FCC Part 2 (Section 2.1091)

Standards: KDB 447498 D01 General RF Exposure Guidance v06

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.

Celine Chou / Senior Specialist

Jeremy Lin / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			Power Density (mW/cm²)	Average Time (minutes)				
Limits For General Population / Uncontrolled Exposure								
300-1500			F/1500	30				
1500-100,000			1.0	30				

F = Frequency in MHz

2.2 MPE Calculation Formula

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

where

Pd = power density in mW/cm²

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 21cm away from the body of the user. So, this device is classified as **Mobile Device**.



3 Calculation Result of Maximum Conducted Power

Mode	Max ERP Power (dBm)	Max EIRP Power (dBm)	Distance	Power Density (mW/cm ²)	Limit (mW/cm²)
	` ′	` ′	(cm)	, ,	,
GPRS 850	32.62	34.77	21	0.541	0.549
GPRS 1900	-	31.03	21	0.229	1.000
LTE Band 2	-	24.67	21	0.053	1.000
LTE Band 4	-	24.25	21	0.048	1.000
LTE Band 5	22.48	24.63	21	0.052	0.549
LTE Band 7	-	24.38	21	0.049	1.000
LTE Band 12	22.68	24.83	21	0.055	0.466
LTE Band 17	22.49	24.64	21	0.053	0.471
LTE Band 25	-	24.50	21	0.051	1.000
LTE Band 26	22.66	24.81	21	0.055	0.543
LTE Band 66	-	24.35	21	0.049	1.000
LTE Band 71	22.95	25.10	21	0.058	0.443

Note:

2. EIRP = ERP + 2.15dB

---END---

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