

FCC RF Exposure Report

Report No.: MFBCKS-WTW-P23060549

FCC ID: NKR-VMC-9628RV1

Model No.: VMC-9628RV1

Received Date: 2023/6/21

Test Date: 2023/7/5~20237/18

Issued Date: 2023/9/28

Applicant: Wistron NeWeb Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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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 / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
MFCKS-WTW-P23060549	Original release	2023/9/28

1 Certificate of Conformity

Product: 2G/3G/4G Module

Brand: WNC

Test Model: VMC-9628RV1

Sample Status: Engineering sample

Applicant: Wistron NeWeb Corporation

FCC Rule Part: FCC Part 2 (Section 2.1091)

Standards: KDB 447498 D01 General RF Exposure Guidance v06

We, **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, declare that the equipment above has been found compliance with the requirement limits of applicable standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified.

Prepared by :  , **Date:** 2023/9/28
Polly Chien / Specialist

Approved by :  , **Date:** 2023/9/28
Jeremy Lin / Project Engineer

2 General Information

2.1 General Description of EUT

Product	2G/3G/4G Module	
Brand	WNC	
Test Model	VMC-9628RV1	
Status of EUT	Engineering sample	
Power Supply Rating	3.8Vdc (From DC power supply or host)	
Modulation Type	QPSK, 16QAM	
Operating Frequency	WCDMA	826.4MHz ~ 846.6MHz
	LTE Band 5	824MHz ~ 849MHz
	LTE Band 7	2500MHz ~ 2570MHz
	LTE Band 26	814MHz ~ 849MHz
	LTE Band 38	2570MHz ~ 2620MHz
	LTE Band 41	2555MHz ~ 2655MHz
Antenna Type	Refer to note	

Note:

1. The antenna information is listed as below.

Antenna Type		Dipole	
Antenna Connector		SMA	
Item	Antenna No.	Band	Gain (dBi)
LTE	ANT1/ ANT2	Band 5	2
		Band 7	2
		Band 26	2
		Band 38	2
		Band 41	2
WCDMA	ANT0	Band 5	2

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3 RF Exposure

3.1 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

3.2 MPE Calculation Formula

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

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

3.3 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**.

4 Calculation Result of Maximum Conducted Power

Function	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA Band 5	25.7	2	20	0.117	0.551
LTE Band 5	25.7	2	20	0.117	0.550
LTE Band 7	25.7	2	20	0.117	1.000
LTE Band 26	25.7	2	20	0.117	0.543
LTE Band 38	25.7	2	20	0.117	1.000
LTE Band 41	25.7	2	20	0.117	1.000

Note:

1. The above Max Power is Tune-up Power which client declared.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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