FCC RF Exposure Report

Report No.:	MFBCKS-WTW-P23070373
FCC ID:	NKR-VMC-9628NV1
Model No.:	VMC-9628NV1
Received Date:	2023/7/17
Issued Date:	2023/9/28
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:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
MFBCKS-WTW-P23070373	Original release	2023/9/28

1 Certificate of Conformity

Product:	2G/3G/4G Module
Brand:	WNC
Test Model:	VMC-9628NV1
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 : Vera Huang , **Date:** 2023/9/28

Vera Huang / Specialist

Approved by : Jeremy Lin , **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-9628NV1	
Status of EUT	Engineering sample	
Power Supply Rating	3.8Vdc from power supply	
Modulation Type	GSM/GPRS	GMSK
	EDGE	GMSK, 8PSK
	WCDMA	QPSK
	LTE	QPSK, 16QAM
Operating Frequency	GSM850	824.2 ~ 848.8 MHz
	GSM1900	1850.2 ~ 1909.8 MHz
	WCDMA Band 2	1852.4 ~ 1907.6 MHz
	WCDMA Band 4	1712.4 ~ 1752.6 MHz
	WCDMA Band 5	826.4 ~ 846.6 MHz
	LTE Band 2	1850.7 ~ 1909.3 MHz
	LTE Band 4	1710.7 ~ 1754.3MHz
	LTE Band 5	824.7 ~ 848.3 MHz
	LTE Band 7	2502.5 ~ 2567.5 MHz
	LTE Band 12	699.7 ~ 715.3 MHz
	LTE Band 13	779.5 ~ 784.5 MHz
	LTE Band 17	706.5 ~ 713.5 MHz
Antenna Type	Dipole Antenna with 2 dBi gain	
Antenna Connector	SMA	
Accessory Device	N/A	
Cable Supplied	N/A	

Note: Detail antenna specification please refer to antenna datasheet an antenna gain measurement report.

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

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

3.3 Classification

The antenna of this product, under normal use condition, is at least 27cm away from the body of the user. So, this device is classified as **Mobile Device**.

4 Calculation Result of Maximum Conducted Power

Mode	Tune-Up Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
GSM850	35	2	27	0.547	0.550
GSM1900	32	2	27	0.274	1.000
WCDMA Band 2	25.7	2	27	0.064	1.000
WCDMA Band 4	25.7	2	27	0.064	1.000
WCDMA Band 5	25.7	2	27	0.064	0.550
LTE Band 2	25.7	2	27	0.064	1.000
LTE Band 4	25.7	2	27	0.064	1.000
LTE Band 5	25.7	2	27	0.064	0.550
LTE Band 7	25.7	2	27	0.064	1.000
LTE Band 12	25.7	2	27	0.064	0.466
LTE Band 13	25.7	2	27	0.064	0.520
LTE Band 17	25.7	2	27	0.064	0.469

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

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