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TEST REPORT

FCC MPE Test for WM-H801UE
Certification

APPLICANT
Woori-Net

REPORT NO.
HCT-RF-2211-FC043

DATE OF ISSUE
December 7, 2022

Tested by
Jae Ryang Do

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Kwon Jeong

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Additional Model
-

Applicant	**Woori-Net** Woori-net Bldg., 353, Simindaero, Dongan-Gu, Anyang-si, GyeongGi-do, 14057 Korea
Eut Type	5G CBRS M.2 Module
Model Name	WM-H801UE
FCC ID	2A9FK-WM-H801UE

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	December 07, 2022	Initial Release

Engineering Statement:
The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr

RF Exposure Statement

1. Limit

According to § 1.1310, § 2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
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. Maximum Permissible Exposure Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = Power input to antenna

G = Power gain to the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

3. RESULTS

- Sub6 n48-

EIRP[Radiated Power]	23.00	dBm
EIRP[Radiated Power]	199.526	mW
Prediction distance	20.00	cm
Prediction frequency	3555.00 ~ 3679.98	MHz
Power density at prediction frequency (S)	0.03969	mW/cm^2
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm^2

EIRP	23.00	(dBm)
ERP	20.85	(dBm)
ERP	0.122	(W)
ERP Limit	3.00	(W)
MARGIN	13.92	(dB)