CE SAR Exemption Evaluation Report

Project No.	:	2504C143
Equipment	:	AC650 Wireless Dual Band USB Adapter
Brand Name	:	Cudy
Test Model	:	WU650
Model Name	:	WU650
Hardware Version	:	V1.0
Software Version	:	V1.0
Applicant	:	Shenzhen Cudy Technology Co., Ltd.
Address	:	7/F, Lepu Tower (West), 66 Xingke Rd, Nanshan, Shenzhen, China
Manufacturer	:	Shenzhen Cudy Technology Co., Ltd.
Address	:	7/F, Lepu Tower (West), 66 Xingke Rd, Nanshan, Shenzhen, China
Factory	:	Shenzhen Cudy Technology Co., Ltd.
Address	:	7/F, Lepu Tower (West), 66 Xingke Rd, Nanshan, Shenzhen, China
Date of Receipt	:	Apr. 16, 2025
Date of Test	:	Apr. 17, 2025 ~ Sep. 02, 2025
Issued Date	:	Oct. 29, 2025
Test Sample	:	Engineering Sample No.: DG202504164
Standard(s)	:	EN 50663:2017 EN 62479:2010

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

Prepared by : Chella Zheng

Chella Zheng

Approved by : Chay Cai

Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China
Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-ETSP-5-2504C143	R00	Original Report.	Oct. 29, 2025	Valid

1. MAXIMUM PERMISSIBLE EXPOSURE

1.1 APPLICABLE STANDARD

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 50663 - Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz to 300 GHz)

EN 62479 - Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

1.2 INTRODUCTION

This generic standard applies to low power electronic and electrical apparatus for which no dedicated product - or product family standard regarding human exposure to electromagnetic fields applies.
The frequency range covered is 10 MHz to 300 GHz.
The object of this standard is to demonstrate the compliance of such apparatus with the basic restrictions on exposure of the general public to electric, magnetic and electromagnetic fields and contact current.

1.3 COMPLIANCE CRITERIA

All electromagnetic fields If the average power emitted by the apparatus operating in the frequency range 10 MHz to 300 GHz is less than or equal top 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.
Averaging time is 6 minutes in the frequency range 10 MHz to 10 GHz. The average time is equal to 68/f1.05 minutes (where f is in GHz) in the frequency range 10 GHz to 300 GHz.
If the total supply power or the input power to the circuitry producing the greatest emissions in the device is less than or equal to 20 mW then it is assumed that the emitted power is less than 20 mW.
Pulse modulated electromagnetic fields with pulse duration less than 30 micro seconds.
For pulse of duration less than 30 microseconds at frequencies between 300 MHz and 10 GHz, there is also a basic restriction on SAR. This is 2mJ kg-1 in any 10g of tissue in the head. For most pulses, the SAR restriction will be more stringent, but for pulses with a repetition frequency of less than 100 Hz, the SAR restriction will predominate. For devices producing pulses with repetition rates below 100 Hz, the average power should be less than 20 x prf mW (prf in Hz).

2. TABLE FOR FILED ANTENNA

For 2.4GHz:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Shenzhen Jiafang Metal Co., Ltd.	WU650	Metal	N/A	0.43

Note: The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Shenzhen Jiafang Metal Co., Ltd.	WU650	Metal	N/A	-0.42

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

For 2.4GHz:

Max. e.i.r.p. (dBm)	Max. e.i.r.p. (mW)	e.i.r.p. Limit (mW)	Result
12.96	19.77	20	Pass

For 5GHz:

Max. e.i.r.p. (dBm)	Max. e.i.r.p. (mW)	e.i.r.p. Limit (mW)	Result
10.53	11.30	20	Pass

RF exposure assessment has been performed below to prove that this unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC)

End of Test Report