Certificate No.: 3745.01

China

FCC- TEST REPORT

Report Number	:	708881974888-00 Rev.1
Date of Issue:		August 2, 2021
Model	:	WBR3
Product Type	:	WiFi and Bluetooth module
FCC ID	:	2ANDL-WBR3
Applicant	:	Hangzhou Tuya Information Technology Co.,Ltd
Address of Applicant	:	Room701,Building3,More Center,No.87 GuDun
	:	Road,Hangzhou,Zhejiang China
Manufacturer	:	Hangzhou Tuya Information Technology Co.,Ltd
Address of Manufacturer	:	Room701,Building3,More Center,No.87 GuDun
	:	Road,Hangzhou,Zhejiang China
Factory	:	Newtronics Hangzhou Co.,Ltd
Address of Factory	:	No.15,Jiu zhou Road,Jiang Gan Science&Technology Economic Park Hangzhou
Test Result	:	■ Positive ☐ Negative
Total pages including Appendices	:	35

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2 Details about the Test Laboratory

Details about the Test Laboratory
Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch No.16 Lane, 1951 Du Hui Road, Shanghai 201108, P.R. China
Test Firm FCC Registration Number:	820234
Test Firm IC Registration Number:	25988
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3 Description of the Equipment under Test

Description of the Equipment Under Test

Product:	WiFi and Bluetooth module
Model no.:	WBR3
FCC ID:	2ANDL-WBR3
IC:	NA
Options and accessories:	NA
Rating:	DC 3.0-3.6V
RF Transmission Frequency:	For 802.11b/g/n-HT20: 2412~2462 MHz For 802.15.1:2402~2480 MHz
No. of Operated Channel:	2.4GHz WiFi: 11 2.4GHz BLE: 40
Modulation:	For 2.4GHz WIFI: Direct Sequence Spread Spectrum (DSSS) for 802.11b Orthogonal Frequency Division Multiplexing (OFDM) for 802.11g/n For 2.4GHz BLE: GFSK
Antenna Type:	PCB antenna
Antenna Gain:	2.5dBi
Description of the EUT:	The Equipment Under Test (EUT) is a low-power embedded Wi-Fi and Bluetooth module (4.2). We tested it and listed the worst data in this report.

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2014 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 and ANSI C63.10 (2013).

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5 Summary of Test Results

Technical Requirements							
FCC Part 15 Subpart C							
Test Condition			Pages	Test Site	Test Result		
					Pass	Fail	N/A
§15.207		Conducted emission AC power port	12-14	Site 1	☒	☐	☐
§15.247 (b) (1)		Conducted peak output power	15-16	Site 1	☒	☐	☐
§15.247(a)(1)		20dB bandwidth	---	---	☐	☐	☒
§15.247(a)(1)		Carrier frequency separation	---	---	☐	☐	☒
§15.247(a)(1)(iii)		Number of hopping frequencies	---	---	☐	☐	☒
§15.247(a)(1)(iii)		Dwell Time	---	---	☐	☐	☒
§15.247(a)(2)		6dB bandwidth and 99% Occupied Bandwidth	17-18	Site 1	☒	☐	☐
§15.247(e)		Power spectral density	19-20	Site 1	☒	☐	☐
§15.247(d)		Spurious RF conducted emissions	21-24	Site 1	☒	☐	☐
§15.247(d)		Band edge	25-26	Site 1	☒	☐	☐
§15.247(d) & §15.209		Spurious radiated emissions for transmitter	27-31	Site 1	☒	☐	☐
§15.203		Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.
Note 1: The EUT uses a patch antenna, which gain is 2.5dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

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6 General Remarks

Remarks
Notice: The test report 708881974888-00 has been replaced by 708881974888-00 Rev.1

According to the client's requirement, the "A2LA Accredited" and "ilac-MRA" symbols were added to the test report. So, no additional tests are performed. The results as before are accepted.

This submittal(s) (test report) is intended for FCC ID: 2ANDL-WBR3 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.
This report is only for the 2.4GHz BLE test report, for the 2.4GHz WIFI test report please refer to 708881974877-00 Rev.1.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date: November 28, 2019

Testing Start Date: November 30, 2019

Testing End Date: December 30, 2019

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:	Prepared by:	Tested by:
Hui TONG	Jiaxi XU	Wenqiang LU
EMC Section Manager	EMC Project Engineer	EMC Test Engineer

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