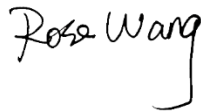


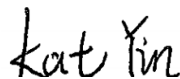
RF Exposure Evaluation Report

APPLICANT : Hangzhou Tuya Information Technology Co., Ltd
EQUIPMENT : WiFi&Bluetooth Module
MODEL NAME : WBR3T
FCC ID : 2ANDL-WBR3T
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

We, Sporton International (Kunshan) Inc., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Reviewed by: Rose Wang / Supervisor



Approved by: Kat Yin / Manager



Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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1. Administration Data

1.1. Testing Laboratory

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Testing Laboratory		
Test Firm	Sporton International (Kunshan) Inc.	
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958	
Test Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CN1257	314309

Applicant	
Company Name	Hangzhou Tuya Information Technology Co.,Ltd
Address	Room 701, Buliding 3, More center, No 87 GuDun Road, Hangzhou, Zhejiang, China

Manufacturer	
Company Name	Hangzhou Tuya Information Technology Co.,Ltd
Address	Room 701, Buliding 3, More center, No 87 GuDun Road, Hangzhou, Zhejiang, China

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	WiFi&Bluetooth Module
Model Name	WBR3T
FCC ID	2ANDL-WBR3T
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	WLAN 2.4GHz : 802.11b/g/n/ HT20/HT40 WLAN 5GHz : 802.11a/n HT20/HT40 Bluetooth LE
HW Version	V1.0.1
SW Version	V1.0.5
Antenna Type / Gain	WLAN 2.4GHz : PCB antenna with gain 0 dBi WLAN 5GHz : PCB antenna with gain 0.70 dBi Bluetooth: PCB antenna with gain 0 dBi

Comments and Explanations:
<ol style="list-style-type: none"> The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.



3. Maximum RF Tune Up power among production units

<WLAN 2.4GHz>

Mode	Maximum Average Power (dBm)
802.11b	18.5
802.11g	17.5
802.11n-HT20	16.5
802.11n-HT40	15.5

<Bluetooth>

Mode	Maximum Average Power (dBm)
Bluetooth LE	9.5

<WLAN 5GHz>

Mode	Maximum Average Power (dBm)	
WLAN 5.2GHz	802.11a	16.5
	802.11n-HT20	15.0
	802.11n-HT40	14.5
WLAN 5.3GHz	802.11a	16.5
	802.11n-HT20	15.0
	802.11n-HT40	14.5
WLAN 5.5GHz	802.11a	16.5
	802.11n-HT20	15.0
	802.11n-HT40	14.5
WLAN 5.8GHz	802.11a	17.0
	802.11n-HT20	15.0
	802.11n-HT40	14.5



4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Table with 5 columns: Frequency range (MHz), Electric field strength (V/m), Magnetic field strength (A/m), Power density (mW/cm²), Averaging time (minutes). It is divided into two sections: (A) Limits for Occupational/Controlled Exposures and (B) Limits for General Population/Uncontrolled Exposure.

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

S = PG / (4πR²)

Where:

- S = Power Density
P = Output Power at Antenna Terminals
G = Gain of Transmit Antenna (linear gain)
R = Distance from Transmitting Antenna



5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
2.4GHz WLAN	2412	0	18.50	18.500	0.071	70.795	0.014	1.000
WLAN 5.2GHz	5180	0.70	16.50	17.200	0.052	52.481	0.010	1.000
WLAN 5.3GHz	5260	0.70	16.50	17.200	0.052	52.481	0.010	1.000
WLAN 5.5GHz	5500	0.70	16.50	17.200	0.052	52.481	0.010	1.000
WLAN 5.8GHz	5745	0.70	17.00	17.700	0.059	58.884	0.012	1.000
Bluetooth	2402	0	9.50	9.500	0.009	8.913	0.002	1.000

Note:

1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power to do MPE analysis.
3. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

-----THE END-----