

TEST REPORT

Product Name : McWong Wireless Control Module
Brand Mark : McWong, TruBlu
Model No. : WCM-02
FCC ID : ZZOWCM-02
Report Number : BLA-EMC-202205-A4402
Date of Sample Receipt : 2022/5/18
Date of Test : 2022/5/18 to 2022/6/13
Date of Issue : 2022/6/13
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
447498
Test Result : Pass

Prepared for:

MW McWong Internatioanl Inc
1921 Arena Blvd, Sacramento, CA 95834, United States

Prepared by:

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Date:

2022/6/13



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/6/13	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass

2 GENERAL INFORMATION

Applicant	MW McWong Internatioanl Inc
Address	1921 Arena Blvd, Sacramento, CA 95834, United States
Manufacturer	MW McWong Internatioanl Inc
Address	1921 Arena Blvd, Sacramento, CA 95834, United States
Factory	McWong Lighting (Shanghai)Co.,Ltd.
Address	No.159 Fulian Yi Roud Shanghai Robot Industry Park, Gucun, Baoshan District Shanghai 201906 China
Product Name	McWong Wireless Control Module
Test Model No.	WCM-02

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	N/A
Software Version	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Data Rate	1Mbps;2Mbps
Number of Channels:	40
Antenna Type:	External Antenna
Antenna Gain:	1.5dBi(Provided by the applicant)

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,
China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 LIMITS

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.3 EUT RF EXPOSURE

Operational Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
BLE1M 2402 MHz	-0.284	±1	0.716	1.18	0.37	3.0
BLE1M 2442 MHz	-0.381	±1	0.619	1.15	0.36	
BLE1M 2480 MHz	-1.128	±1	-0.128	0.97	0.31	
BLE2M 2402	-0.295	±1	0.705	1.18	0.36	
BLE2M 2442	-0.378	±1	0.622	1.15	0.36	
BLE2M 2480	-1.115	±1	-0.115	0.97	0.31	
Conclusion: the calculated value ≤3.0. SAR is exempted.						

----END OF REPORT----

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