

MPE Test Report

Report No.: SXP-ESH-P21040309B-3

FCC ID: 2AMEH-POCKETWIFIG3

Product: Pocket WiFi

Model: Pocket WiFi V3.0, Pocket WiFi V3.0-P, Pocket WiFi V3.0-E

Received Date: Apr.06, 2021

Test Date: Apr.26 to May.17, 2021

Issued Date: May.26, 2021

Applicant: SolaX Power Network Technology (Zhejiang) Co., Ltd.

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Manufacturer: SolaX Power Network Technology (Zhejiang) Co., Ltd.

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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Release Control Record

Issue No.	Description	Date Issued
SXP-ESH-P21040309B-3	Original release	May.26, 2021

1 Certificate of Conformity

Product: Pocket WiFi

Brand: SolaX Power

Model: Pocket WiFi V3.0, Pocket WiFi V3.0-P, Pocket WiFi V3.0-E

Applicant: SolaX Power Network Technology (Zhejiang) Co., Ltd.

Test Date: Apr.26 to May.17, 2021

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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May.26, 2021

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2 General Information

2.1 General Description of EUT

Product	Pocket WiFi
Brand	SolaX Power
Test Model	Pocket WiFi V3.0, Pocket WiFi V3.0-P, Pocket WiFi V3.0-E
Model Difference	The three models have same PCB. Model Pocket WiFi V3.0 is internal antenna type, model Pocket WiFi V3.0-P is external antenna type without extended line, model Pocket WiFi V3.0-E is external antenna type with extended line.
Power Rating	Powered by USB (DC 5V)
Modulation Type	DSSS, OFDM
Modulation Technology	802.11b/g/n20/n40
Operating Frequency	802.11b, 802.11g and 802.11n (HT20):2412MHz~2462MHz, 802.11n (HT40):2422MHz~2452MHz
Number of Channel	802.11b, 802.11g and 802.11n (HT20):11, 802.11n (HT40):7
Antenna Type	Chip Antenna, External Antenna
Antenna Connector	--
Antenna Gain	Chip Antenna:3dBi External Antenna:3dBi

Note:

1. For more details, please refer to the User's manual of the EUT.

3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2.4GHz					
2412-2462	14.77	3	20	0.0119111	1

Conclusion:

The calculation result of MPE is less than the limit.

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