

RF Exposure Report

Report No.: SA170818C25C

FCC ID: XOJ-WA2000

Test Model: WA2000C, WA2000U, WA2000M

Received Date: Jul. 23, 2018

Date of Evaluation: Oct. 15, 2018

Issued Date: Oct. 17, 2018

Applicant: Tibbo Technology Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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R.O.C.

Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City
33383, Taiwan (R.O.C)

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA170818C25C	Original Release	Oct. 17, 2018

1 Certificate of Conformity

Product: WA2000

Brand: Tibbo Technology Inc.

Test Model: WA2000C, WA2000U, WA2000M

Sample Status: Production Unit

Applicant: Tibbo Technology Inc.

Date of Evaluation: Oct. 15, 2018

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 Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, 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 RF characteristics under the conditions specified in this report.

Prepared by :



Date: Oct. 17, 2018

Gina Liu / Specialist

Approved by :



Date: Oct. 17, 2018

Dylan Chiou / Project Engineer

2 RF Exposure

2.1 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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

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

2.4 Antenna Gain

The antenna information is listed as below.

	Antenna Type	Brand	Model	Antenna Gain (dBi)			Connector Type
				BT	WLAN 2.4 GHz	WLAN 5 GHz	
1	PCB	Johanson Technology	2450AD14A5500	1.0	1.0	4.0	none (like solder)
2	Monopole	WIFI-Link Technologies Co Ltd	WLD1	6.0	6.0	5.0	R-SMA
3	Monopole	WIFI-Link Technologies Co Ltd	WLD1	6.0	5.0	5.0	R-SMA

2.5 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	2412-2462	24.27	6.0	20	0.212	1.00
	5180-5240	14.02	5.0	20	0.016	1.00
	5745-5825	13.21	5.0	20	0.013	1.00
BT	2402-2480	6.07	6.0	20	0.003	1.00

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