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Report No.: 2306TW8601-U3
Report Version: 1.0
Issue Date: 2023-09-25

RF Exposure Evaluation Declaration

FCC ID: UV3BPW-835LJB
APPLICANT: AViTA Corporation
Application Type: Certification
Product: Arm Type Blood Pressure Monitor
Model No.: BPM835-LJB
Series Model No.: BPM83B
Brand Name: AViTA
FCC Rule Part(s): Part 2.1093 (Portable)
Received Date: June 14, 2023

Reviewed By

: 

(Paddy Chen)



Testing Laboratory
3261

Approved By

: 

(Chenz Ker)

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2306TW8601-U3	1.0	Original Report	2023-09-25	

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	Arm Type Blood Pressure Monitor
Trademark	AViTA
Model No.	BPM835-LJB
Series Model No.	BPM83B
Bluetooth Specification	V4.2 LE
Operating Frequency	2402~2480MHz
Modulation Type	GFSK
Accessory	
Adapter #1	MFR: Mitra Power Solutions Co.,LTD Model: MP06M-050100-AG Input: AC 100-240V~50/60Hz 0.3A Max Output: DC 5V, 1.0A DC Cable Out: Shielding, 1.0m with Core*1
Adapter #2	MFR: Mitra Power Solutions Co.,LTD Model: MP06M-050100-AU Input: AC 100-240V~50/60Hz 0.3A Max Output: DC 5V, 1.0A DC Cable Out: Shielding, 1.0m with Core*1

Note:

1. Model Difference: The difference of models only for marketing different, the other hardware was the same. (declared by the manufacturer)
2. The test was performed base on BPM835-LJB.
3. The difference between adapters is the plug. Select adapter #2 for testing.

1.2. Antenna Description

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Sino Wealth Electronic LTD.	N/A	PCB	1.22dBi

2. RF Exposure Evaluation

2.1. FCC Limits

According to FCC KDB 447498 D04V01 - SAR-Based Exemption

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula .

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

The example values shown as below are for illustration only.

Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

2.2. Test Result of RF Exposure Evaluation

Mode	Frequency Band (MHz)	Output Power (dBm)	Antenna Gain (dBi)	Output Power (mW)	EIRP (mW)	FCC SAR Test Exclusion Threshold (mW)
BLE	2402~2480	-6.70	1.22	0.21	0.28	3

So, this device can complies the SAR test exclusion.

_____ The End _____