TEST REPORT

For FCC Part15B

Report No:	CHTEW22080285	Report verification:
Project No:	SHT2206027801EW	5.6
FCC ID:	2AK5KU85E21006	Reportion Centification
Applicant's name::	Shenzhen Urion Technology	Co., Ltd.
Address		Science&Technology Industrial Heshuikou Community, MaTian , 518106 Shenzhen, PEOPLE'S
Product Name:	upper arm electronic blood pres	sure monitor
Trade Mark:		
Model No:	TelliBP01	
Listed Model(s)	U85E	
Standard:	47 CFR FCC Part 15 Subpart	В
Date of receipt of test sample	Jul. 27, 2022	
Date of testing:	Jul. 28, 2022- Aug. 18, 2022	
Date of issue	Aug. 19, 2022	
Result:	Pass	
Compiled by		(1) \ 1
(position+printed name+signature):	File administrators Silvia Li	Silvia Li David Chen
Supervised by		David Chan
(position+printed name+signature):	Project Engineer David Chen	Davia Chen
Approved by		بيطار الما
(position+printed name+signature):	RF Manager Hans Hu	Mansin
Testing Laboratory Name:	Shenzhen Huatongwei Interna	ational Inspection Co., Ltd.
Address	1/F, Bldg 3, Hongfa Hi-tech Indo Gongming, Shenzhen, China	ustrial Park, Genyu Road, Tianliao,

Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

The test report merely corresponds to the test sample.

Report No.: CHTEW22080285 Page: 2 of 15 Date of issue: 2022-08-19

Contents

<u>l.</u>	TEST STANDARDS AND REPORT VERSION	<u></u>
1.1.	Test Standards	2
1.1. 1.2.	Report version information	3 3
2	TEST DESCRIPTION	4
<u>2.</u>	TEST DESCRIPTION	<u> 4</u>
<u>3.</u>	SUMMARY	5
<u>J.</u>	SOMMAN I	<u></u>
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Testing Laboratory Information	5
<u>4.</u>	TEST CONFIGURATION	6
4.1.	Descriptions of test mode	6
4.2.	Configuration of Tested System	6
4.3.	Support unit used in test configuration and system	6
4.4.	Environmental conditions	6
4.5.	Statement of the measurement uncertainty	6
4.6.	Equipments Used during the Test	7
<u>5.</u>	TEST CONDITIONS AND RESULTS	8
5.1.	Conducted Emissions Test	8
5.2.	Radiated Emissions Test	10
~ .		
<u>6.</u>	TEST SETUP PHOTOS OF THE EUT	14
7.	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	15

Report No.: CHTEW22080285 Page: 3 of 15 Date of issue: 2022-08-19

1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2014 – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2022-08-19	Original

Report No.: CHTEW22080285 Page: 4 of 15 Date of issue: 2022-08-19

2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result #1	Test Engineer
5.1	Conducted Emissions	15.107(a)	PASS	Pan Xie
5.2	Radiated Emissions	15.109(a)	PASS	Pan Xie

Note:

#1: The test result does not include measurement uncertainty value

Report No.: CHTEW22080285 Page: 5 of 15 Date of issue: 2022-08-19

3. **SUMMARY**

3.1. Client Information

Applicant:	Shenzhen Urion Technology Co., Ltd.
Address:	Floor 4-6th of Building D, Jiale Science&Technology Industrial Zone, No.3, ChuangWei Road, Heshuikou Community, MaTian Street, GuangMing New District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Shenzhen Urion Technology Co., Ltd.
Address:	Floor 4-6th of Building D, Jiale Science&Technology Industrial Zone, No.3, ChuangWei Road, Heshuikou Community, MaTian Street, GuangMing New District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

3.2. Product Description

Main unit information:		
Product Name:	upper arm electronic blood pressure monitor	
Trade Mark:	-	
Model No.:	TelliBP01	
Listed Model(s):	U85E	
Power supply:	DC 3.7V from Battery	
Hardware version:	V00	
Software version:	UA1.0	
Accessory unit information:		
Battery information:	3.7Vdc, 2000mAh	

3.3. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
	Tel: 86-755-26715499	
Connect information:	E-mail: cs@szhtw.com.cn	
	http://www.szhtw.com.cn	
Qualifications	Туре	Accreditation Number
Qualifications	FCC	762235

Report No.: CHTEW22080285 Page: 6 of 15 Date of issue: 2022-08-19

4. TEST CONFIGURATION

4.1. Descriptions of test mode

Test mode	Description
Working mode	Keep the device in power on and active mode.

4.2. Configuration of Tested System

Test mode	Configuration
Working mode	AC Adapter EUT

4.3. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whethe	Whether support unit is used?			
✓	Yes			
Item	Equipment	Trade Name	Model No.	Other
1	Adapter	HUAWEI	HW-050200C01	
2				

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.5. Statement of the measurement uncertainty

Test Items	MeasurementUncertainty
Conducted emission	3.25dB
Dedicted emission	<1GHz: 4.22dB
Radiated emission	>1GHz:5.06ppm

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Report No.: CHTEW22080285 Page: 7 of 15 Date of issue: 2022-08-19

4.6. Equipments Used during the Test

•	Conducted Emission										
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)				
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27				
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2021/09/14	2022/09/13				
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/09/17	2022/09/16				
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2021/09/16	2022/09/15				
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2021/09/17	2022/09/16				
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A				

•	Radiated Emission-6th test site										
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)				
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2022/09/29				
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/09/14	2022/09/13				
•	Ultra-Broadband Antenna	SCHWARZBEC K	HTWE0119	VULB9163	546	2020/04/28	2023/04/27				
•	Pre-Amplifer	SCHWARZBEC K	HTWE0295	BBV 9742	N/A	2021/11/05	2022/11/04				
•	RF Connection Cable	HUBER+SUHN ER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24				
•	RF Connection Cable	HUBER+SUHN ER	HTWE0062-02	SUCOFLEX10 4	501184/4	2022/02/25	2023/02/24				
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A				

•	Radiated emission-7th test site											
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)					
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2022/09/26					
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/09/13	2022/09/12					
•	Horn Antenna	SCHWARZBE CK	HTWE0126	9120D	1011	2020/04/01	2023/03/31					
•	Broadband Pre- amplifier	SCHWARZBE CK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27					
•	RF Connection Cable	HUBER+SUH NER	HTWE0121-01	RE-7-FH	N/A	2022/03/04	2023/03/03					
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A					

Report No.: CHTEW22080285 Page: 8 of 15 Date of issue: 2022-08-19

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Emissions Test

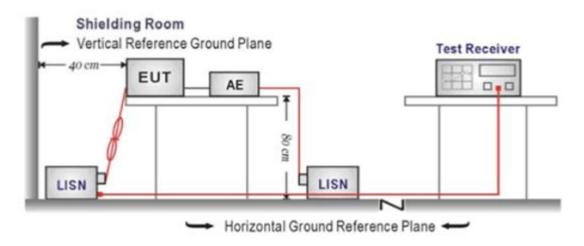
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (dBuV)				
r requericy rarige (wir iz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



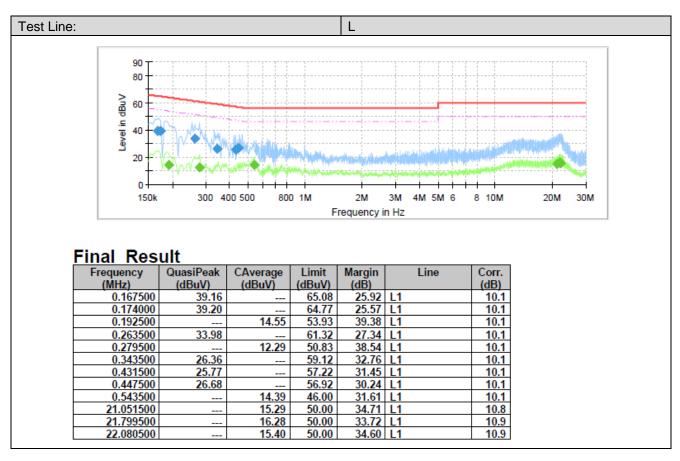
TEST PROCEDURE

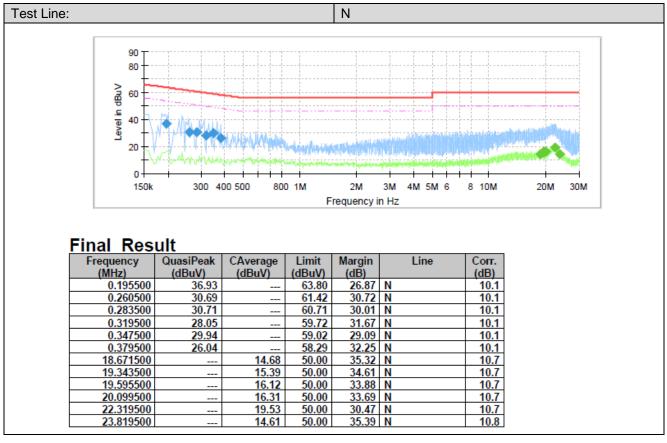
- 1. The EUT was setup according to ANSI C63.4:2014
- 2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS





Report No.: CHTEW22080285 Page: 10 of 15 Date of issue: 2022-08-19

5.2. Radiated Emissions Test

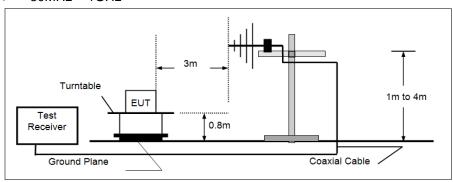
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

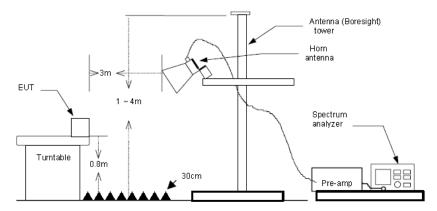
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
ABOVE TOTIZ	74.00	Peak

TEST CONFIGURATION

➢ 30MHz ~ 1GHz



Above 1GHz



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.4:2014.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground.
- 3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 4. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz,
 - RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

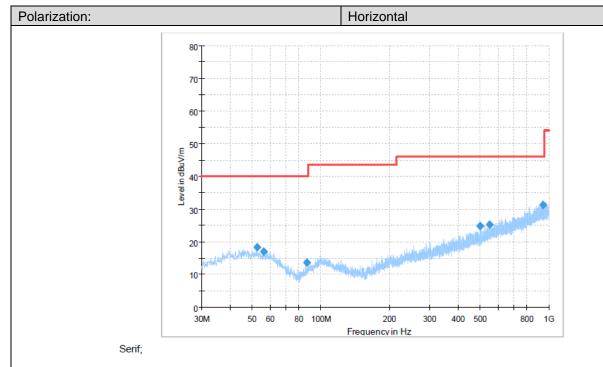
Report No.: CHTEW22080285 Page: 11 of 15 Date of issue: 2022-08-19

TEST MODE:

Please refer to the clause 3.3

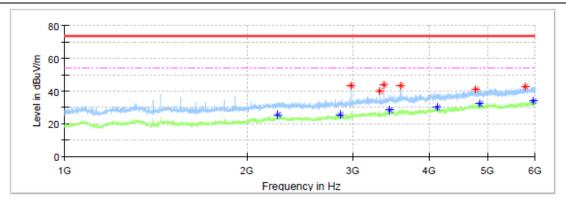
TEST RESULTS

Note: Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor The emission levels of frequency above 6GHz are very lower than limit and not show in test report.



Final Result

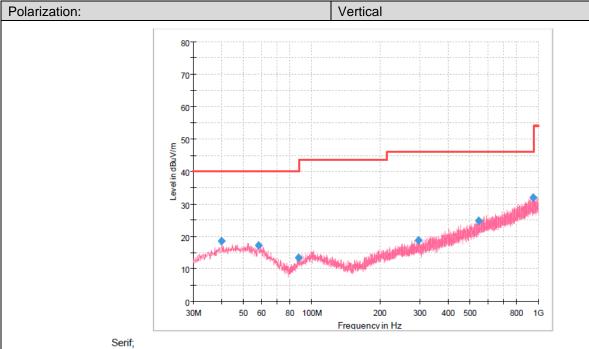
Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.431250	18.24	40.00	21.76	100.0	Н	0.0	-9.3
56.190000	16.90	40.00	23.10	100.0	Н	50.0	-9.7
86.987500	13.67	40.00	26.33	100.0	Н	280.0	-13.6
500.328750	24.78	46.00	21.22	100.0	Н	98.0	-2.1
548.222500	25.32	46.00	20.68	100.0	Н	152.0	-0.4
939.617500	31.30	46.00	14.70	100.0	Н	134.0	7.1



Critical Freqs

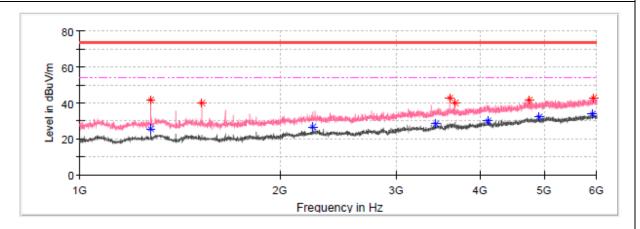
Ollicioul III	040							
Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)
3598.750000	43.50	-	74.00	30.50	150.0	Н	0.0	-0.6
4786.875000	41.35	-	74.00	32.65	150.0	Н	0.0	5.5
4863.125000	-	31.96	54.00	22.04	150.0	Н	7.0	5.6
4128.750000	-	30.04	54.00	23.96	150.0	Н	33.0	1.8
2253.125000	-	25.58	54.00	28.42	150.0	Н	47.0	-4.6
5955.625000	-	34.06	54.00	19.94	150.0	Н	47.0	9.1
2853.750000	-	25.58	54.00	28.42	150.0	Н	88.0	-3.4
3441.250000		28.14	54.00	25.86	150.0	Н	130.0	-1.3
5772.500000	42.91		74.00	31.09	150.0	Н	185.0	8.3
2978.750000	43.07		74.00	30.93	150.0	Н	273.0	-2.9
3316.250000	39.90		74.00	34.10	150.0	Н	344.0	-2.1
3370.000000	43.95		74.00	30.05	150.0	Н	355.0	-2.0

Report No.: CHTEW22080285 Page: 13 of 15 Date of issue: 2022-08-19



Final_Result

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.063750	18.44	40.00	21.56	100.0	V	181.0	-9.7
58.372500	17.27	40.00	22.73	100.0	V	0.0	-9.9
87.715000	13.38	40.00	26.62	100.0	V	116.0	-13.4
295.780000	18.86	46.00	27.14	100.0	V	211.0	-7.6
547.373750	24.91	46.00	21.09	100.0	V	0.0	-0.5
948.953750	32.07	46.00	13.93	100.0	V	123.0	7.2



Critical Freqs

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)
3604.375000	42.67		74.00	31.33	150.0	٧	0.0	-0.6
5939.375000	42.80		74.00	31.20	150.0	٧	0.0	9.2
1277.500000	41.44		74.00	32.56	150.0	٧	18.0	-7.1
1277.500000		25.83	54.00	28.17	150.0	٧	18.0	-7.1
1523.750000	40.05		74.00	33.95	150.0	٧	46.0	-7.4
4106.875000		29.80	54.00	24.20	150.0	٧	46.0	1.7
2242.500000		26.63	54.00	27.37	150.0	٧	60.0	4.5
3678.125000	40.20		74.00	33.80	150.0	٧	60.0	-0.5
5911.875000		33.70	54.00	20.30	150.0	٧	232.0	8.9
4753.125000	41.48		74.00	32.52	150.0	٧	274.0	5.4
3435.625000		28.09	54.00	25.91	150.0	V	288.0	-1.3
4907.500000		32.09	54.00	21.91	150.0	V	343.0	5.9

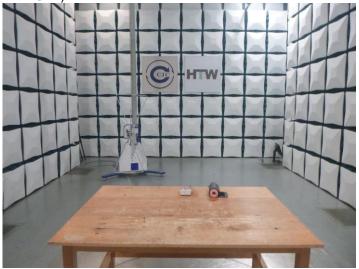
Report No.: CHTEW22080285 Page: 14 of 15 Date of issue: 2022-08-19

6. TEST SETUP PHOTOS OF THE EUT

Conducted Emissions (AC Mains)



Radiated Emissions (30MHz-1GHz)



Radiated Emissions (Above 1GHz)



Report No.: CHTEW22080285 Page: 15 of 15 Date of issue: 2022-08-19

7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refer to the test report No.: CHTEW22080284

-----End of Report-----