

Report No.: FYCR220500020003

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## 1 Cover Page

RF Exposure Report

Application No.: FYCR2205000200ME

Applicant: Guangdong Transtek Medical Electronics Co., Ltd

Address of Applicant: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan,

528437, Guangdong, China

Manufacturer: Guangdong Transtek Medical Electronics Co., Ltd

Address of Manufacturer: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan,

528437, Guangdong, China

Factory: Guangdong Transtek Medical Electronics Co., Ltd

Address of Factory: Zone A, No.105, Dongli Road, Torch Development District, Zhongshan,

528437, Guangdong, China

**Equipment Under Test (EUT):** 

**EUT Name:** Blood pressure monitor

Model No.: LS802-GS

FCC ID: OU9LS802GSM2

Trade mark: Transtek

47 CFR Part 2.1091

Standard(s): 47 CFR Part 1.1310

47 CFR Part 1.1307

**Date of Receipt:** 2022-05-30

**Date of Test:** 2022-05-30 to 2022-06-26

**Date of Issue:** 2022-06-29

Test Result: Pass\*



WinkeyWang



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2022-06-26		Original			

Authorized for issue by:			
	Tree 2han		
	Tree Zhan/Project Engineer	_	
	Winkeywang		
	Winkey Wang/Reviewer	-	



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### 3 General Information

#### 3.1 Details of E.U.T.

	AC Adapter Model: BLJ06L060100P-U				
Dawar awali u	Input: AC 100-240V, 50/60Hz, 0.2A Max				
Power supply:	Output: DC 6.0V, 1000mA				
	DC 6V(4*AA Batteries)				
Test voltage:	AC 120V, 60Hz				
	Note: Both nominal AC 120V, 60Hz and AC 240 V, 60Hz are required				
	for testing in accordance with FCC KDB174176, this report only shows				
	the results of the worst test result(AC 120V, 60Hz);				
Cable(s):	DC cable:146cm unshielded				
Sample Type:	Fixed production				
CatM Band					
Operation Frequency Band:	CatM1 Band 2, 4, 12, 13, 25				
Modulation Type:	QPSK, 16QAM				
Antenna Type:	PIFA Antenna				
Antenna Gain:	CatM1 Band 2: 2.82dBi, CatM1 Band 4: 3.37dBi, CatM1 Band 12:				
	1.34dBi, CatM1 Band 13: 1.85dBi, CatM1 Band 25: 2.82dBi				
Extreme temp. Tolerance:	-30°C to +50°C				
Extreme vol. Limits:	5.1VDC to 6.9VDC (nominal: 6VDC)				



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#### 3.2 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

#### • FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

### • Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.





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## 4 Radio Spectrum Technical Requirement

### 4.1 RF Exposure

### 4.1.1 Requirement

In accordance with 47 CFR FCC Part 2.1091, this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

According to 47 CFR FCC Part 1310, the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b).

TABLE 1 TO §1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(i) Limits for Occupational/Controlled Exposure							
3-3.0	614	1.63	*(100)	≤6			
3.0-30	1842/f	4.89/f	*(900/f²)	<6			
30-300	61.4	0.163	1.0	<6			
300-1,500			f/300	<6			
1,500-100,000			5	<6			
	(ii) Limits for Ger	neral Population/Unc	ontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30			
1.34-30	824/f	2.19/f	*(180/f²)	<30			
30-300	27.5	0.073	0.2	<30			
300-1,500			f/1500	<30			
1,500-100,000			1.0	<30			
f = frequency in MH	dz. * = Plane-wave equi	valent power density					



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#### 4.1.2 Method

According to IEEE C95.3:2002 section 5.5.1.1, the power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula:

 $S = \frac{PG}{4\pi d^2}$ 

 $S = power density (mW/cm^2)$ 

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)

From the maximum EUT RF output power, as well as the gain of the used antenna, according toe the RF power density limit stated in above table, the mimimum distance between the antenna and human body will be calculated.

#### 4.1.3 Conclusion

Туре	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=20cm (mW/cm²)	Limit (mW/cm²)	MPE Ratios	Result
CatM Band2	1850.7	2.82	1.91	23	199.53	0.0760	1.0000	0.0760	PASS
CatM Band4	1710.7	3.37	2.17	23.5	223.87	0.0968	1.0000	0.0968	PASS
CatM Band12	699.7	1.34	1.36	23.5	223.87	0.0606	0.4665	0.1300	PASS
CatM Band13	779.5	1.85	1.53	24	251.19	0.0765	0.5197	0.1472	PASS
CatM Band 25	1850.7	2.82	1.91	23.5	223.87	0.0853	1.0000	0.0853	PASS

### 4.2 EUT Constructional Details

Refer to Appendix - external and internal photos for FYCR220500200ME.

-- End of the Report--



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