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1 Cover Page

RF Exposure Report

Application No.: FYCR2205000201ME

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-GP

FCC ID: OU9LS802GPM3

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: 2022-06-01 to 2022-06-16

Date of Issue: 2022-06-20

Test Result: Pass*



WinkeyWarg



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2022-06-20		Original			

Authorized for issue by:		
	Tree Zhan	
	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					
Power supply:	Input: AC 100-240V, 50/60Hz, 0.2A Max					
	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: 2.96dBi, CatM1 Band 4: 3.44dBi, CatM1 Band 12:					
	1.09dBi, CatM1 Band 13: 1.72dBi, CatM1 Band 25: 2.96dBi					
GSM Band						
Support Network:	GPRS, EGPRS					
Operation Frequency Band:	GSM850/GSM1900					
Modulation Type:	GMSK for GSM/GPRS/EGPRS					
	8PSK for EGPRS					
Supported Channel Bandwidth:	200KHz					
Antenna Type:	PIFA Antenna					
Antenna Gain:	GSM850: -0.58dBi					
	GSM1900: 2.96dBi					



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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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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 144



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4 Radio Spectrum Technical Requirement

4.1.1 RF Exposure

4.1.2 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							
0 0.0	614	1.63	*(100)	≤6			
3.0-30	1842/f	4.89/f	*(900/f ²)	<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/f ²)	<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	łz. * = Plane-wave equi	valent power density					



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4.1.3 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:

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

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

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.

4.1.4 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
GSM850	824.2	-0.58	0.87	33	1995.26	0.3473	0.5495	0.6321	PASS
PCS1900	1850.2	2.96	1.98	30	1000.00	0.3933	1.0000	0.3933	PASS
CatM Band2	1850.7	2.96	1.98	23	199.53	0.0785	1.0000	0.0785	PASS
CatM Band4	1710.7	3.44	2.21	23.5	223.87	0.0983	1.0000	0.0983	PASS
CatM Band12	699.7	1.09	1.29	23.5	223.87	0.0572	0.4665	0.1227	PASS
CatM Band13	779.5	1.72	1.49	24	251.19	0.0743	0.5197	0.1429	PASS
CatM Band 25	1850.7	2.96	1.98	23.5	223.87	0.0880	1.0000	0.0880	PASS

Note: the GSM band and CatM band cannot synchronous transmission at the same time.

4.2 EUT Constructional Details

Refer to Appendix - external and internal photos for FYCR220500201ME.

-- End of the Report--



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