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SAR Evaluation Report

Application No.:	SZEM1508005117CR(SGS GZ No.:GZME1508000725ME)
Applicant:	Philips Consumer Lifestyle
Manufacturer:	Guangdong Transtek Medical Electronics Co., Ltd
Factory:	Guangdong Transtek Medical Electronics Co., Ltd
Product Name:	Philips Wrist Blood pressure monitor with Bluetooth
Model No.(EUT):	DL8765
Trade Mark:	Philips
FCC ID:	2AEFK-DL8765
Standards:	47 CFR Part 1.1307 (2015)
	47 CFR Part 2.1093 (2015)
	KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2015-08-18
Date of Test:	2015-08-24 to 2015-10-26
Date of Issue:	2015-10-28
Test Result :	**PASS***

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

Authorized Signature:

Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.
If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

2 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00		2015-10-28		Original

Authorized for issue by:				
Tested By		Benson Wang **(Benson Wang) /Project Engineer**		2015-10-26 **Date**
Prepared By		Venus Wu **(Venus Wu) /Clerk**		2015-10-28 **Date**
Checked By		Eric Fu **(Eric Fu) /Reviewer**		2015-10-28 **Date**

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4 General Information

4.1 Client Information

Applicant:	Philips Consumer Lifestyle
Address of Applicant:	High Tech Campus Building HTC 37-parterre, Netherlands, 5656AE
Manufacturer:	Guangdong Transtek Medical Electronics Co., Ltd
Address of Manufacturer:	Zone A, No.105, Dongli Road, Torch Development District, Zhongshan, Guangdong, 528437
Factory:	Guangdong Transtek Medical Electronics Co., Ltd
Address of Factory:	Zone B, No.105, Dongli Road, Torch Development District, Zhongshan, Guangdong, 528437

4.2 General Description of EUT

Product Name:	Philips Wrist Blood pressure monitor with Bluetooth
Model No.:	DL8765
Trade Mark:	Philips
RF Function (Frequency):	V4.0 BLE
Sample Type:	Portable production
Modulation Type:	GFSK
Antenna Gain:	2dBi
Antenna Type:	Integral
EUT Power Supply:	Rechargeable battery: DC 3.7V 420mAh (charge by USB)

4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.4 Test Facility

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

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

• **Industry Canada (IC)**

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -0.29dBm in lowest channel(2.402GHz);

The best case gain of the antenna is 2dBi.

EIRP= -0.29dBm + 2dBi = 1.71dBm

1.71dBm logarithmic terms convert to numeric result is nearly 1.483mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure = (1.483mW / 5 mm) x √2.402GHz = 0.4597 ①

SAR requirement:

S= 3.0 ② ;

① < ②.

So the SAR report is not required.