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Report No.: SZEM140800417802 Page: 1 of 6

SAR Evaluation Report

Test Result :	PASS*
Date of Issue:	2014-08-21
Date of Test:	2014-08-15 to 2014-08-18
Date of Receipt:	2014-08-07
	KDB447498D01 General RF Exposure Guidance v05
	47 CFR Part 2.1093 (2013)
Standards:	47 CFR Part 1.1307(2013)
FCC ID:	BOUDL8770
Trade Mark:	Philips
Add Model No.:	DL8770/XX ("X" can be A-Z or 0-9 for different country version)
Model No.(EUT):	DL8770
Product Name:	Activity Monitor with OHR
Factory:	IDT Technology Limited
Manufacturer:	IDT Technology Limited
Applicant:	Philips Consumer Lifestyle
Application No:	SZEM1408004178RF

* 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.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2014-08-22		Original

Authorized for issue by:		
Tested By	Frank. Horay	2014-08-18
	(Owen Zhou) /Project Engineer	Date
Prepared By	Mohnda li (Sade Luo) /Clerk	2014-08-21
Checked By	Emen _ Li (Emen Li) /Reviewer	2014-08-22 Date

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4 General Information

4.1 Client Information

Applicant:	Philips Consumer Lifestyle
Address of Applicant:	5/F., Philips Electronics Building, 5 Science Park East Avenue, Hong Kong
Manufacturer:	IDT Technology Limited
Address of Manufacturer:	Block C, 9/F., Kaiser Estate, Phase 1, 41 Man Yue Street, Hunghom, Kowloon, Hong Kong.
Factory:	IDT Technology Limited
Address of Factory:	Chentian Industrial Estate Xixiang, BaoAn, Shenzhen, PRC

4.2 General Description of EUT

Product Name:	Activity Monitor with OHR
Model No.:	DL8770, DL8770/XX ("X" can be A-Z or 0-9 for different country version)
Trade Mark:	Philips
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.0
Modulation Technique:	DSSS
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Test Power Grade:	Manufacturer declare
Test Software of EUT:	BTool
Antenna Type:	Integral
Antenna Gain:	0dBi
Power Supply:	DC 3.8V 100mA (Li-Polymer Battery)
Remark:	Only the model DL8770 was tested, since the electrical circuit design, PCB layout, components used and internal wiring were identical for the above models, only different on exterior printing.

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.

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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.

• VCCI

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, 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)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v05

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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$] ≤ 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 calculation¹⁷ The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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 0.65dBm in Lowest channel(2.402GHz);

The best case gain of the antenna is 0dBi.

 $\mathsf{EIRP}=0.65\mathsf{dBm}+\mathsf{0}\mathsf{dBi}=0.65\mathsf{dBm}$

0.65dBm logarithmic terms convert to numeric result is nearly 1.161mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$]

General RF Exposure = (1.161mW / 5 mm) x √2.402GHz = 0.3599①

SAR requirement:

S= 3.0

1 < 2.

2;

So the SAR report is not required.