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Report No.: SZEM141000596602

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SAR Evaluation Report

Application No: SZEM1410005966CR
Applicant/Manufacturer: Shenzhen Mecare Network Technology Co., Ltd
Factory: Shenzhen Joint Chinese Co., Ltd
Product Name: mecare Cuputime
Model No.(EUT): C107
Trade Mark: Mecare
FCC ID: 2ADHH-1412C1
Standards: 47 CFR Part 1.1307(2013)
47 CFR Part 2.1093 (2013)
KDB447498D01 General RF Exposure Guidance v05
Date of Receipt: 2014-11-03
Date of Test: 2014-11-04 to 2014-11-11
Date of Issue: 2014-11-15

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

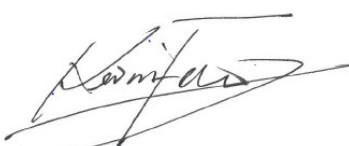
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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2014-11-15		Original

Authorized for issue by:			
Tested By	 (Sen Lv) /Project Engineer	2014-11-11	Date
Prepared By	 (Sade Luo) /Clerk	2014-11-15	Date
Checked By	 (Feng Kor) /Reviewer	2014-11-18	Date

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Mecare Network Technology Co., Ltd
Address of Applicant:	Room G103 Of Huachuangda Building, Xinghua 1st Road, Shenzhen Baoan district section 42, Guangdong Province Of China
Manufacturer:	Shenzhen Mecare Network Technology Co., Ltd
Address of Manufacturer:	Room G103 Of Huachuangda Building, Xinghua 1st Road, Shenzhen Baoan district section 42, Guangdong Province Of China
Factory:	Shenzhen Joint Chinese Co., Ltd
Address of Factory:	Building 6, Huafeng Tech Park, Guangtian Road, Luotian Industrial Area, Songgang Town, Shenzhen, P.R.China.

4.2 General Description of EUT

Product Name:	mecare Cuputime
Model No.:	C107
Trade Mark:	Mecare
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.0
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
EUT Function:	BT Function
The Highest Operation Frequency:	32MHz
Test Power Grade:	Default setting
Test Software of EUT:	Smart RF Studio 7
Antenna Type:	Integral
Antenna Gain:	0.5dBi
Battery:	CR2032*2(DC 3.3V)

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

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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.

- **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.

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 ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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 ≤ 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 0.48dBm in highest channel(2.402GHz);

The best case gain of the antenna is 0.5dBi.

$$\text{EIRP} = 0.48\text{dBm} + 0.5\text{dBi} = 0.98\text{dBm}$$

0.98dBm logarithmic terms convert to numeric result is nearly 1.2531mW

According to the formula. calculate the EIRP test result:

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

$$\text{General RF Exposure} = (1.2531\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 0.3884 \text{ ①}$$

SAR requirement:

$$S = 3.0 \text{ ② ;}$$

$$\text{①} < \text{②}.$$

So the SAR report is not required.