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SAR Evaluation Report

Report No. : CQASZ171201621EW-02

Applicant: Beijing Boshi Linkage Technology Co., Ltd.

Address of Applicant: Room 2229-2230, No. 2# Building, Zhongguancun Software Park Incubator, Dongbeiwang Road, Haidian District, Beijing City, China

Manufacturer: Beijing Boshi Linkage Technology Co., Ltd.

Address of Manufacturer: Room 2229-2230, No. 2# Building, Zhongguancun Software Park Incubator, Dongbeiwang Road, Haidian District, Beijing City, China

Factory: Beijing Boshi Linkage Technology Co., Ltd.

Address of Factory: Room 2229-2230, No. 2# Building, Zhongguancun Software Park Incubator, Dongbeiwang Road, Haidian District, Beijing City, China

Equipment Under Test (EUT):

Product: Elite Care

Model No.: EC-210

Brand Name: 

FCC ID: 2AOXA-EC-210

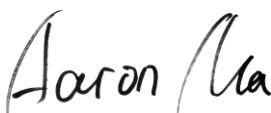
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-01-10 to 2018-01-15

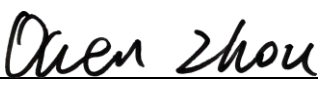
Date of Issue: 2018-01-15

Test Result : PASS*

Tested By:


(Aaron Ma)

Reviewed By:


(Owen Zhou)

Approved By:


(Jack Ai)



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

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ171201621EW-02	Rev.01	Initial report	2018-01-15

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4 General Information

4.1 Client Information

Applicant:	Beijing Boshi Linkage Technology Co., Ltd.
Address of Applicant:	Room 2229-2230, No. 2# Building, Zhongguancun Software Park Incubator, Dongbeiwang Road, Haidian District, Beijing City, China
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Address of Factory:	Room 2229-2230, No. 2# Building, Zhongguancun Software Park Incubator, Dongbeiwang Road, Haidian District, Beijing City, China

4.2 General Description of EUT

Product Name:	Elite Care
Model No.:	EC-210
Trade Mark:	
Hardware Version:	V2.02
Software Version:	V3.10
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Test Software of EUT:	CYBLE MTK (Manufacturer provide)
Antenna Type:	Ceramic antenna
Antenna Gain:	0dBi
EUT Power Supply:	Adapter: Model:GAT-0501000U Input:AC100-240V 0.4A 50/60Hz Output: DC5V 1000mA

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{[\sqrt{f(\text{GHz})}]^2} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where} \right.$$

$f(\text{GHz})$ 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

For BLE:

Measurement Data

GFSK mode	
Test channel	Peak Output Power (dBm)
Lowest	-3.88
Middle	-3.53
Highest	-2.72

The Max Conducted Peak Output Power is -2.72dBm in Highest channel(2.480GHz);

The best case gain of the antenna is 0dBi.

EIRP= -2.72dBm +0dBi = -2.72dBm

-2.72dBm logarithmic terms convert to numeric result is nearly 0.535mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(0.535\text{mW} / 5 \text{ mm}) \times \sqrt{2.480\text{GHz}} = 0.169$ ①

SAR requirement:

S= 3.0

② ;

① < ②.

So the SAR report is not required.

Remark: The Max Conducted Peak Output Power data refer to report CQASZ171201621EW-01