

RF Exposure Evaluation Report

Product : Bone Conductor Hearing Enhancer
Trade mark : Walker's
Model/Type reference : GWP-BCON, GWP-SF-BCON, GWP-BCON-XXX,
GWP-SF-BCON-XXX(Where X=0 to 9 or A to Z)
Serial Number : N/A
Report Number : EED32M00099402
FCC : MV3-BCON
Date of Issue : May 28, 2020
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Test result : PASS

Prepared for:

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2 Version

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4 General Information

4.1 Client Information

Applicant:	Country Mate Technology Ltd.
Address of Applicant:	5/F, Blk E, Hing Yip Center, 31 Hing Yip Street, Kwun Tong, Kln, Hong Kong
Manufacturer:	Country Mate Technology Ltd.
Address of Manufacturer:	5/F, Blk E, Hing Yip Center, 31 Hing Yip Street, Kwun Tong, Kln, Hong Kong
Factory:	Concord Electronic (Huizhou) Ltd.
Address of Factory:	21, Ping An Rd, Shuikou Street, Hui Cheng District , Huizhou City, Guangdong Province,China

4.2 General Description of EUT

Product Name:	Bone Conductor Hearing Enhancer
Model No.(EUT):	GWP-BCON, GWP-SF-BCON, GWP-BCON-XXX, GWP-SF-BCON-XXX (Where X=0 to 9 or A to Z)
Test Model No.:	GWP-BCON
Trade Mark:	Walker's
EUT Supports Radios application:	BT 5.0 Single mode, 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK	
Test Power Grade:	Reference report EED32M00099401	
Test Software of EUT:	Bluetest3	
Antenna Type:	Chip Antenna	
Antenna Gain:	0.8 dBi	
Power Supply:	Lithium Polymer Battery	Model:SP851425 3.8V 300mAh 1.14Wh
Max Conducted Peak Output Power:	BT: 8.389 dBm	
	The Max Conducted Peak Output Power data refer to the report EED32M00099401	
Sample Received Date:	Apr. 24, 2020	
Sample tested Date:	Apr. 24, 2020 to May 18, 2020	
<p>The tested sample(s) and the sample information are provided by the client. Model No.:GWP-BCON, GWP-SF-BCON, GWP-BCON-XXX, GWP-SF-BCON-XXX(Where X=0 to 9 or A to Z) Only the model GWP-BCON was tested, since their electrical circuit design, layout,components used and internal wiring are identical. AOnly the Color or Package is different.</p>		

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

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
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:

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

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 ≤ 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 tune-up power is 6.5 dBm +/- 2dB, therefore the highest tune-up power is 8.500 dBm (7.08 mW) @ 2480 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

$$\left(\frac{7.08\text{mW}}{5\text{mm}} \right) * \left(2.480\text{GHz} \right)^{0.5} = 2.2$$

$$\left[\frac{\text{[(max. power of channel, including tune-up tolerance, mW)]}}{\text{[(min. test separation distance, mm)]}} * \left[\sqrt{f(\text{GHz})} \right] \right] = 2.2 < 3.0$$

Therefore, standalone SAR measurements are not required for both head and body

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00099401 for EUT external and internal photos.

*** End of Report ***

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