

# RF Exposure Evaluation Report

**Product** : Razor XV BT  
**Trade mark** : Walker's  
**Model/Type reference** : GWP-NHE-BT  
**Serial Number** : N/A  
**Report Number** : EED32L00066602  
**FCC ID** : MV3-GWPNHE  
**Date of Issue** : May 14, 2019  
**Test Standards** : 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB 447498D01 v06  
**Test result** : PASS

Prepared for:

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Prepared by:

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## 2 Version

Version No.	Date	Description
00	May 14, 2019	Original

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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:	Razor XV BT
Model No.(EUT):	GWP-NHE-BT
Trade mark:	Walker's
EUT Supports Radios application:	BT: 2402-2480MHz

### 4.3 Product Specification subjective to this standard

Frequency Range:	2402-2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Test Power Grade:	N/A
Test Software of EUT:	AB153x_Airoha_Tool_Kit(ATK)_V1.1.16(manufacturer declare)
Antenna Type:	Chip Antenna
Antenna Gain:	-1.18dBi
Power Supply:	Battery: 3.7V,120mAh
Max Conducted Peak Output Power:	5.891dBm The Max Conducted Peak Output Power data refer to the report EED32L00066601
Sample Received Date:	Mar. 29, 2019
Sample tested Date:	Mar. 29, 2019 to Apr. 15, 2019
Remark:	The tested sample(s) and the sample information are provided by the client.

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#### **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  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  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 calculation<sup>17</sup>

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 5.891dBm in highest channel(2.480GHz);

The best case gain of the antenna is -1.18dBi.

$EIRP = 5.891\text{dBm} + (-1.18)\text{dBi} = 4.711\text{dBm}$

4.711dBm logarithmic terms convert to numeric result is nearly 2.96mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure =  $(2.96\text{mW} / 5 \text{ mm}) \times \sqrt{2.480\text{GHz}} = 0.376$ . ①

SAR requirement:

S = 3.0

② ;

① < ②.

So the SAR report is not required.

## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00066601 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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