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Date:

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# RF Exposure Evaluation acc. to FCC

#### **Administrative Data:**

Applicant: ShangHai Ehong Technology Co.,Ltd.

Address: Suite501, No.3 building, No.439 Jinglian road, Minhang district, Shanghai, China

#### **Product Data:**

**Product Name: BT Module** 

Model Name: EH-MC17

FCC ID: 2ACCRMC17

Technology: Bluetooth Low Energy

Frequency Band: 2402 - 2480 MHz

Output Power (conducted) Pmax: 5.15 dBm (3.27 mW)<sup>1</sup>

Antenna Gain/Type: 0 dBi1/ Ceramic Antenna

#### **Result:**

The device is compliant according to FCC RF Exposure Evaluation procedures

Note 1: Values have been taken from FCC Part 15.247 Test Report with Report Number: RSHD190611013-00A issued by Bay Area Compliance Labs Corp. (Report Date: 2019-07-16)

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# FCC (USA)

Reference: KDB 447498, Chapter 4.3.1

#### General SAR test exclusion guidance

For 100 MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc. thresholds are determined by the following:

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

- f<sub>(GHz)</sub> is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.

## Calculation

Threshold<sub>1-g;10-g</sub> 3

 $d_{separation}$  5 mm

2480,00 MHz (RF channel transmit frequency)

Exempted, if power<sup>1</sup> lower than 9,53 mW Threshold<sub>1-g;10-g</sub> \*  $d_{seperation} / f^{0.5}$ 

## Conclusion

Pmax: 5.15 dBm (3.27 mW) < 9.53 mW (Threshold)

The device is compliant to RF exposure limits and while used in close proximity to the human body (0 mm)

Issued by

Dipl.-Ing. Carsten Steinroeder Bluetooth® Lab Manager