

MPE Calculation / RF Exposure

Product: TWS Hearing Device

Applicant: BSL Co., Ltd.

Model: EM-V100

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FCC ID: Q32-EMV100

Per KDB 447498 D01 General RF Exposure Guidance v06 (10/23/2015) section 4.3.1 (a)

Stand alone SAR test exclusion threshold is applied;

a) For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- ♦ where $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- ♦ Power and distance are rounded to the nearest mW and mm before calculation
- ♦ 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

Freq: EDR / 2 480 MHz

Tune-up max. power : 9.00 dBm (7.943 mW)

Min. Test separation distance : 5 mm

SAR exclusion threshold: $[7.943/5] \times [\sqrt{2.480}] = 2.502$ (=2.5, is rounded to one decimal place)

* Tune-up tolerance : 8 dBm +/- 1.0 dB

Therefore, the EUT was not evaluated as the value of SAR exclusion threshold was less than 3 per KDB 447498 D01 v06 section 4.3.1(a)