



## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	Bluetooth headphones
Model Name	MZX870
Series Model	MZX770-BLK, MZX770-WHT, MZX870-BLK, MZX870-WHT, NB-1100F, NB-1100, NB-1100FS, NB-1100BF, NB-1300B, NB-1300BF, NB-1300, NB-1050, NB-1060, NB-1069, NB-1090, NB-1090P, NB-1070, NB-1070S, NB-1094, NB-1093, NB-1700, NB-1600, NB-2030, NB-2040, NB-2050, NB-2060, NB-1092, NB-1093, NB-1095, NB-1090B, NB-2020, NB-1701
FCC ID	2ALHZNB-1090B

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

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:

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

### 3. CALCULATION

#### BR&EDR:

$$P_t = -0.272 \text{ dBm} = 0.94 \text{ mW}$$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (0.94 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.295 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

#### BLE GFSK 1Mbps:

$$P_t = -1.709 \text{ dBm} = 0.67 \text{ mW}$$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (0.67 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.210 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

#### BLE GFSK 2Mbps:

$$P_t = -1.935 \text{ dBm} = 0.64 \text{ mW}$$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (0.64 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.201 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.

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