

RF Exposure evaluation

Product Description: Bluetooth headset

Model Number: MA-1999

FCC ID: 2ADM5-MA-1999

According to 447498 D01 General RF Exposure Guidance v05 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: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 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

According to the above test data,

$E_{\text{max}}=0.63\text{dBm}=0.001156\text{W}=1.16\text{mW}$

The result is rounded to one decimal place for comparison

Worse case is as below: [2480MHz -1.16mW output power]

$(1.16\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.37 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

NOTE: For the maximum power, you can refer FCC test report.