

RF Exposure evaluation

Product Description: VOICE-ASSISTANT WIRELESS STEREO HEADPHONE

Model Number: SS-HP009B

FCC ID: 2AOKX-SS-HP009B

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: $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 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 follow transmitter output power (P_t) formula:

$$P_t = (E \times d)^2 / (30 \times g_t)$$

P_t =transmitter output power in watts

g_t =numeric gain of the transmitting antenna (unitless)

E =electric field strength in V/m

d =measurement distance in meters (m)

According to the formula described above:

$$E_{\text{max}} = \underline{98.43} \text{ dBuV/m} = \underline{0.083} \text{ V/m}, d = 3\text{m}, g_t = 0.89$$

$$P_t = (E \times d)^2 / (30 \times g_t) = (\underline{0.083} \times 3)^2 / (30 \times 0.89) = \underline{0.00232213} \text{ W} = \underline{2.32} \text{ mW}$$

The result is rounded to one decimal place for comparison

Worse case is as below: [2402MHz -**2.32mW** output power]

$$(\underline{2.32} \text{ mW} / 5\text{mm}) \cdot \sqrt{2.402(\text{GHz})} = \underline{0.72} < 3.0 \text{ for 1 - g SAR}$$

Then SAR evaluation is not required

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

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