

RF Exposure evaluation

Product Description: True Wireless Stereo Bluetooth Headset

Model Number: D06

FCC ID: 2AJN6-D06

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 \leq 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

According to the follow transmitter output power (Pt) formula:

$$Pt = (E \times d) / (30 \times g_t)$$

Pt=transmitter output power in watts

gt=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:

$$Emax = 96.16 \text{ dBuV/m} = 0.064 \text{ V/m}, d = 3 \text{ m}, g_t = 1.58$$

$$Pt = (E \times d)^2 / (30 \times g_t) = (0.064 \times 3)^2 / (30 \times 1.58) = 0.0007777 \text{ W} = 0.78 \text{ mW}$$

The result is rounded to one decimal place for comparison

Worse case is as below: [2402MHz -0.78mW output power]

$$(0.78 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402 \text{ (GHz)}}] = 0.24 < 3.0 \text{ for 1 - g SAR}$$

Then SAR evaluation is not required

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

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