RF Exposure evaluation

Product Description: True Wireless Stereo Earbuds Model Number: E08 FCC ID: QIF-E08

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

f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation

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

Pt= (E x d) 2/ (30 x gt)

Pt=transmitter output power in watts

gt=numeric gain of the transmitting antenna (unitess)

E=electric field strength in V/m

d=measurement distance in meters (m)
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According to the formula described above:

Emax=<u>98.58</u>dBuv/m=<u>0.085</u>V/m, d=3m, g_t=1.23

 $P_{t}= (E \times d)^{2}/(30 \times g_{t}) = (0.085 \times 3)^{2}/(30 \times 1.23) = 0.0017622W = 1.76 \text{mW}$

The result is rounded to one decimal place for comparison Worse case is as below: [2402MHz -1.76mW output power] (1.76mW / 5mm)*[$\sqrt{2.402}$ (GHz)] = <u>0.55</u>mW < 3.0 for 1 - g SAR Then SAR evaluation is not required

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