

RF Exposure Requirements

Product Description: Wireless on-ear headphones

Model No.: TAH4205

FCC ID: 2AR2STAH4205

IC: 24589-TAH4205

According to the KDB 447498 D01 V06 and RSS-102 Issue 5, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Bluetooth BR & EDR

Frequency Range: 2402 MHz to 2480 MHz

Type of Modulation: GFSK, $\pi/4$ DQPSK, 8DPSK

Device category: Portable device (Distance: 5mm)

The maximum conducted output power tested: 2.39dBm

The conducted output power specified is 1 dBm

Tolerance: ± 2 dB

➤ FCC RF exposure

The source- based time-averaging conducted output power

$= (2.39 + 2) * \text{Duty cycle mW} = 2.748 \text{ mW}$ (Duty Cycle $\leq 100\%$)

Maximum Conducted Output Power: 2.748 mW

Limit: 10mW

Source-based time-averaged Conducted output power is $2.748 \text{ mW} < 10\text{mW}$

➤ ISED RF exposure

The source- based time-averaging conducted output power

$= (2.39 + 2) * \text{Duty cycle mW} = 2.748 \text{ mW}$ (Duty Cycle $\leq 100\%$)

Maximum Conducted Output Power: 2.748 mW

Limit: 4mW

Source-based time-averaged Conducted output power is $2.748 \text{ mW} < 4\text{mW}$

So the transmitter complies with the RF exposure requirements and the SAR is not required.