

RF Exposure Requirements

Product Description: Wireless speaker

Model No.: TAS4405/37

FCC ID: 2AR2STAS4405

IC: 24589-TAS4405

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

Device category: Portable device (Distance: 5mm)

The maximum conducted output power tested: -2.21dBm

The conducted output power specified is -1 dBm

Tolerance: ± 2 dB

➤ FCC RF exposure

The source- based time-averaging conducted output power

$= (-1 + 2) * \text{Duty cycle mW} = 1.259 \text{ mW}$ (Duty Cycle $\leq 100\%$)

Maximum Conducted Output Power: 1.259 mW

Limit: 10mW

Source-based time-averaged Conducted output power is $1.259 \text{ mW} < 10\text{mW}$

➤ ISED RF exposure

The source- based time-averaging conducted output power

$= (-1 + 2) * \text{Duty cycle mW} = 1.259 \text{ mW}$ (Duty Cycle $\leq 100\%$)

Maximum Conducted Output Power: 1.259 mW

Limit: 4mW

Source-based time-averaged Conducted output power is $1.259 \text{ mW} < 4\text{mW}$

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