

RF Exposure Requirements

Product Description: wireless microphone

Model No.: STC-3205, STC-3206, STC-3226, STC-3251, STC-8250, STC-2213, STC-2214, STC-2215, STC-2216, STC-5218, STC-5219, STC-5220, STC-5222, STC-5228, STC-5229, STC-7008, STC-5306, STC-6211, STC-5011, STC-6212, STC-5012, STC-6213, STC-5013, STC-6215, STC-5015, STC-6207, STC-5007, STC-6201, STC-5001, STC-6202, STC-5002, STC-6203, STC-5003, STC-5016

FCC ID: 2AKULSTC-3205

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

Calculation Result:

Maximum power of frequency: 2402MHz

Minimum test separation distance: 5mm

Maximum Conducted Output Power: -3.319dBm

Tune-Up output power: 0dBm

Result: 0.3

Limit: 3.0

The exclusion thresholds is $0.3 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.