

RF Exposure Requirements

Product Description: Bluetooth headset

Model No.: LUBTAPPS-ASST,LS-K1,LS-K2,LS-K3,LS-IPLUIV,LS-IPLUEB,LS-K6,LS-K7,LS-K8,LS-K9

FCC ID: 2AG5CLSLUBTA

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:

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

Tx frequency range: 2402 MHz

Min. test separation distance: 5 mm

Maximum Conducted Output Power: 1.29 dBm (1.346 mW)

Tune-Up output power: 4 dBm (2.5 mW)

RF channel transmit frequency: 2402 MHz

Result: 0.77

Limit: 3.0

Tx frequency range: 2442 MHz

Min. test separation distance: 5 mm

Maximum Conducted Output Power: 1.69 dBm (1.476 mW)

Tune-Up output power: 4 dBm (2.5 mW)

RF channel transmit frequency: 2442 MHz

Result: 0.78

Limit: 3.0

Tx frequency range: 2480 MHz

Min. test separation distance: 5 mm

Maximum Conducted Output Power: -1.14 dBm (0.769 mW)

Tune-Up output power: 4 dBm (2.5 mW)

RF channel transmit frequency: 2480 MHz

Result: 0.79

Limit: 3.0

The exclusion threshold is $0.31 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.