

RF Exposure Requirements

Product Description: Bluetooth keyboard

Model No.: Y030, Y020, Y021, Y022, Y023, Y024, Y025, Y026, Y027, Y028, Y029, Y031, Y032, Y033, Y034, Y035, Y036, Y037, Y038, Y039, Y040, Y041, Y042, Y043, Y044, Y045, Y046, Y047, Y048, Y049

FCC ID: 2A7LV-Y030

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 calculation
- The result is rounded to one decimal place for comparison

Calculation Result:

Tx frequency range: 2402-2480MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power: -1.19dBm

Tune-Up output power: -1.0dBm

RF channel transmit frequency: 2480MHz

Result: 0.25

Limit: 3.0

The exclusion thresholds is $0.25 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.