

RF Exposure Requirements

Product Description: Smart Light

Model No.: WL-03

FCC ID: 2APT2WL-03

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 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

WIFI:

Conducted Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
9.35	8.61	5	2.462	2.70	3

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$: $8.61/5 \cdot \sqrt{2.462} = 1.45$

BT:

Conducted Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
-3.71	0.43	5	2.480	0.14	3

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$: $0.43/5 \cdot \sqrt{2.480} = 0.25$

Simultaneous Transmission:

1. WIFI and BT can not simultaneous transmission;

The Max. exclusion thresholds is $2.70 < 3$, therefore, the RF exposure evaluation is not required.