



WiFi and Bluetooth can't transmit simultaneously. For WiFi, at any time, only one band is transmitting.

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distances  $\leq 50$  mm are determined by:

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

### 1) WIFI (2.4G band)

The maximum tune-up limit power is 9.34dBm(8.59mW) @ 2.412GHz

For the head and body SAR, use 5mm as the conservative minimum test separation distance,

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 2.668 \leq 3.0$$

### 2) WIFI (5G band)

a> 5180MHz ~ 5240MHz

The maximum tune-up limit power is 5.15dBm(3.27mW) @ 5.18GHz

For the head and body SAR, use 5mm as the conservative minimum test separation distance,

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 1.49 \leq 3.0$$

b> 5260MHz ~ 5320MHz

The maximum tune-up limit power is 5.47dBm(3.52mW) @ 5.32GHz

For the head and body SAR, use 5mm as the conservative minimum test separation distance,

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 1.63 \leq 3.0$$

c> 5500MHz ~ 5580MHz

The maximum tune-up limit power is 4.74dBm(2.98mW) @ 5.50GHz

For the head and body SAR, use 5mm as the conservative minimum test separation distance,

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 1.40 \leq 3.0$$

d> 5660MHz ~ 5700MHz

The maximum tune-up limit power is 4.66dBm(2.92mW) @ 5.70GHz

For the head and body SAR, use 5mm as the conservative minimum test separation distance,

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 1.40 \leq 3.0$$



e> 5745MHz ~ 5825MHz

The maximum tune-up limit power is 6.18dBm(4.15mW) @ 5.825GHz

For the head and body SAR, use 5mm as the conservative minimum test separation distance,  
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,  
mm)]·[√f(GHz)] =2.00≤ 3.0

### **3) Bluetooth:**

The maximum tune-up limit power is 7.21dBm(5.26mW) @ 2.48GHz

For the head and body SAR, use 5mm as the conservative minimum test separation distance,  
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,  
mm)]·[√f(GHz)] =1.657≤ 3.0

So WIFI and Bluetooth standalone SAR measurements are not required for both head and body.