

SAR test exclusion

According to KDB 447498 D01 General RF Exposure Guidance v05, section 4.3.1

At 100 MHz to 6 GHz and for test separation distances ≤ 50 mm, the SAR test exclusion threshold is determined according to the following;

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

1. SAR test exclusion threshold

Bluetooth

Frequency : 2480 MHz (min. separation distances = 5 mm)

SAR test exclusion thresholds(5 mm) = $[(5.28 / 5) * \sqrt{2.480}] = 1.66 < 3.0$.

BLE

Frequency : 2480 MHz (min. separation distances = 5 mm)

SAR test exclusion thresholds(5 mm) = $[(4.06 / 5) * \sqrt{2.480}] = 1.28 < 3.0$.

WLAN

Frequency : 2462 MHz (min. separation distances = 5 mm)

SAR test exclusion thresholds(5 mm) = $[(4.94 / 5) * \sqrt{2.462}] = 1.55 < 3.0$.

Mode	Frequency (MHz)	Measured max output Power (mW)	Separation Distance (mm)	≤ 3.0
Bluetooth	2480	5.28	5	1.66
BLE	2480	4.06	5	1.28
WLAN	2462	4.94	5	1.55

2. Conclusion : Bluetooth, BLE, WLAN SAR was not required