



FCC ID: 2AFG6-BM31

According to KDB 447498 D01 General RF Exposure Guidance v06, section 4.3.1

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

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

### 1. SAR test exclusion threshold

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

$$\text{SAR test exclusion thresholds (5 mm)} = 3 \times 5 / (\sqrt{2.480}) = 9.525 \text{ mW}$$

The EUT has two independent RF Modules, each RF module supports one antenna. All the modules and antennas are identical, and two modules support simultaneous transmission.

Module 1			
Max. Tune-up Tolerance(dBm)	Max. Tune-up Tolerance(mW)	Calculation Value (mW)	SAR Test Exclusion Thresholds (5mm) (mW)
3	2	0.63	9.525

The Max. conducted power of module 1 is 2.83dBm, the Max. tune-up tolerance is 3dBm. The Calculation Value:  $2 \text{ (mW)} / 5 \text{ (mm)} \times \sqrt{2.480} = 0.63\text{mW}$

Module 2			
Max. Tune-up Tolerance(dBm)	Max. Tune-up Tolerance(mW)	Calculation Value (mW)	SAR Test Exclusion Thresholds (5mm) (mW)
1	1.26	0.40	9.525

The Max. conducted power of module 2 is 0.92dBm, the Max. tune-up tolerance is 1dBm. The Calculation Value:  $1.26 \text{ (mW)} / 5 \text{ (mm)} \times \sqrt{2.480} = 0.40\text{mW}$



simultaneous transmission			
Calculation Value of Module 1/Limit	Calculation Value of Module 2/Limit	Total	Limit
0.21	0.133	0.343	1

Remark:

-When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

**2. Conclusion: No SAR is required.**