

FCC ID: TQ8-FOB-4F53U

According to KDB 447498 D01 General RF Exposure Guidance v06.

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

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

1. SAR test exclusion threshold

1.1. Frequency: 433.92 MHz (min. separation distances = 0 mm)

Calculation value: $0.058 \text{ (mW)} / 5 \text{ (mm)} \times \sqrt{0.43392} = 0.008$
So, Calculation value ≤ 3.0

Remark;

- Max. Radiated field strength 82.84 (dB μ V/m): Max. E.I.R.P. of EUT -12.39 dBm (0.058 mW)
- When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

1.2. Frequency : 6.5 GHz (UWB)

- Maximum Allowed E.I.R.P. : -41.3 dBm (0.000 074 mW)
- The Maximum allowed RF output power of UWB is less than 1 mW. Per November 2019 TCB Workshop Notes, RF Exposure test is not required based on 1 mW exclusion for frequency over 6 GHz.

1.3. Simultaneous transmission Configuration

- The EUT do not transmit simultaneously.

2. Conclusion: No SAR is required.