

RF Exposure Requirements

Product Description: MBSA E TAG

Model No.: MT-2-9-x-RFBU

FCC ID: 2A2X8-MT29XRFBU

According to the KDB 447498 D01 V06, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

General 902-928 MHz Technique

Tx frequency range: 915.0 ~ 915.5 MHz

Type of Modulation: 2-GFSK

Antenna Type: PCB antenna (Gain: 0 dBi)

The maximum conducted output power: 0 dBm

The maximum radiated output power (e.i.r.p): 0 dBm

The maximum radiated emission for the EUT is 93.77dB μ V/m at 3m

The maximum conducted output power specified is 0 dBm = 1.0 mW

The source- based time-averaging conducted output power
= 1.0 * Duty cycle mW = 1 mW (Duty Cycle \leq 100%)

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt (freq. in GHz)

= 3.0 * 5 / sqrt (0.9155) mW

= 15.68 mW

Source-based time-averaged Conducted output power is 1 mW < 15.68mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.