

## \* RF Exposure

### 1. Regulation

According to the KDB 447498 D04 V01, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

### 2. RF Exposure Compliance Issue

#### UWB Overview

Mode	Frequency [MHz]	Conducted power [dBm]	Average power [mW]	Limit [mW]
UWB	7 987.20	-16.67	0.02	1.00

Calculation :

Maximum allowed EIRP(§15.519) = -41.3 dBm /MHz (=7.4131E-05mW/ MHz)

Maximum measurement bandwidth = 661.72 MHz

Maximum antenna gain = 3.58 dBi

Conducted average power = (7.4131E-05mW/ MHz \* 661.72 MHz) - 3.58 dBi = -16.67 dBm = 0.022mW

**Conclusion:** The output power of EUT is no more than 1mW, regardless of separation distance. Therefore, this EUT is exempt from SAR test.