

EXHIBIT C - RF EXPOSURE EVALUATION

RF EXPOSURE EVALUATION

Applicable Standard

According to §15.247(i) and § 2.1093 and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

For BT:

The max conducted power including tune-up tolerance is 2.5 dBm (1.78mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 1.78/5 \cdot (\sqrt{2.480}) = 0.6 < 3.0$

For BLE:

The max conducted power including tune-up tolerance is -8.0 dBm (0.16mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 0.16/5 \cdot (\sqrt{2.480}) = 0.1 < 3.0$

For Wi-Fi:

The max conducted power including tune-up tolerance is 4.5 dBm (2.82mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 2.82/5 \cdot (\sqrt{2.462}) = 0.9 < 3.0$

Note:

1. the max conducted power including tune-up tolerance was declared by manufacturer.
2. BT, BLE and Wi-Fi cannot transmit simultaneously.

Result: Compliant. The stand-alone SAR evaluation is not necessary.