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1.1 RF Exposure Compliance Requirement

1.1.1 Standard requirement

15.247(b)(4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section. if transmitting antennas of directional gain greater than 6 dBi are used. the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1). (b)(2). and (b)(3) of this section as appropriate. by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

1.1.2 EUT RF Exposure

The Max Conducted Peak Output Power is -2.58dBm (0.552mW) at the lowest channel;

The best case gain of the antenna is 2dBi.

2dBi corresponds to linear antenna gain : 1.58.

According to the formula, the calculation the EIRP test result:

$$\text{EIRP} = P \times G = 0.552\text{mW} \times 1.58 = 0.872\text{mW} \text{ ①}$$

SAR requirement:

$$S = 60 / f(\text{GHz}) = 60 / 2.402 = 144.12\text{mW} \text{ ②} ;$$

$$\text{①} < \text{②}.$$

So the SAR measurement is not required.