ANNEX for BLE Evaluation Exemption

Model: **UWBBLE22**

FCC ID: **KR5UWBBLE22**
IC: **7812D-UWBBLE22**

According to § 1.1307(B)(3)(I)(B), a device is exempted from routine evaluation if below is fullfiled:

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).
Pth is given by:

$$P_{th}\ (\text{mW}) = \begin{cases} ERP_{20\ cm}(d/20\ \text{cm})^{x} & d \le 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

This device is d=10 mm close to the human body, the corresponding threshold Pth=10,39 mW. Since the product has a maximum output power of only 2.8 dBm (1.9 mW) then it's exempted from evaluation.

Best Regards,

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