



RF EXPOSURE EVALUATION

Applicant Name:

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Test Site/Location:

PCTEST Lab, Columbia, MD, USA

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FCC ID:

A3LEJPN980

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Stylus

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

EJ-PN980

SAR Test Exclusion

This device contains a transmitter with Bluetooth LE that may be used in close proximity to the user's body. The maximum allowed output power of the 2.4 GHz Bluetooth LE module is 1.26 mW.

Per FCC KDB Publication 447498 D01v06, 1g SAR exclusion threshold for distance < 50mm is defined by the following equation:

$$\frac{\text{Max Power of Channel (mW)}}{\text{Test Separation Distance (mm)}} \times \sqrt{\text{Frequency (GHz)}} \leq 3.0$$

Based on the maximum output power of Bluetooth LE (rounded to the nearest mW) and the antenna to user separation distance, Bluetooth LE SAR was not required: $[(1 / 5) * \sqrt{2.480}] = 0.31 \leq 3.0$. Per FCC KDB Publication 447498 D01v06, the maximum power of the channel was rounded to the nearest mW before calculation. Since the minimum separation distance is < 5mm, a distance of 5 mm is applied to determine SAR test exclusion.

Therefore, no SAR test is required to determine that this device will not exceed the FCC RF Exposure limit when being used at 0 mm from the human body.



Randy Ortanez
President



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