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(11) RF Exposure DZLS00112

Compliance with 47 CFR 15.247(i)

“Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.”

The EUT is a transceiver that allows cordless communication of music between a source and the unit. It can be considered a mobile transmitter per 47 CFR 2.1091 because a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure and the body of the user or nearby persons. The antenna is internal to the unit and permanently attached. The antenna is a proprietary design with 3dBi gain. The maximum peak conducted output power is 1.03mW.

The maximum peak power is 5.01mW (EIRP) for FCC ID: DZLS00112. The transmit frequency is 2412 to 2462MHz, therefore the EUT does not require routine SAR evaluation because it falls below the low power threshold of $60/f(\text{GHz})\text{mW}$. Please see this excerpt from KDB 447498D01 Mobile Portable RF Exposure v04, item 2)(a)(i):

"a device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is $\leq 60/f(\text{GHz})\text{mW}$ or all measured 1-g SAR are $<0.4 \text{ W.kg.}$ "

The applicant's wireless radio, FCC ID: DZLS00112, is compliant with the requirements of 15.247(i).

Compliance with 47 CFR 15.407(f)

(f) U-NII devices are subject to the radio frequency radiation exposure requirements specified in §§ 1.1307(b), 2.1091 and 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a "general population/uncontrolled" environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

The EUT is a transceiver that allows cordless communication of music between a source and the unit. It can be considered a mobile transmitter per 47 CFR 2.1091 because a separation distance

of at least 20 centimeters is normally maintained between the transmitter's radiating structure and the body of the user or nearby persons. The antenna is internal to the unit and permanently attached. The antenna is a proprietary design with 4dBi gain. The maximum peak conducted output power is 5.25mW for the 5180 to 5240MHz band, and 0.76mW for the 5745 to 5825MHz band.

The maximum peak power is 13.19mW (EIRP) for FCC ID: DZLS00112. We hereby attest the maximum duty cycle observed in normal operation is less than 1%. Applying a source-based duty cycle correction factor to the EIRP, the maximum output power after source-based time averaging is 0.1319mW EIRP.

The transmit frequency is 5150 to 5250 MHz, and 5725 to 5850 MHz, therefore the EUT does not require routine SAR evaluation because it falls below the low power threshold of $60/f(\text{GHz})\text{mW}$. Please see this excerpt from KDB 447498D01 Mobile Portable RF Exposure v04, item 2)(a)(i):

"a device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is $\leq 60/f(\text{GHz})\text{mW}$ or all measured 1-g SAR are $< 0.4 \text{ W.kg.}$ "

The applicant's wireless radio, FCC ID: DZLS00112, is compliant with the requirements of 15.407(f).