

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 an electronic keybox that contains a Bluetooth radio. In most cases it can be considered a mobile transmitter per 47 CFR 2.1091, but due to the low output power, it is also compliant with the exposure requirements for portable devices. The antenna is a ceramic chip with 0.0 dBi of gain. The maximum peak conducted output power is 1.962 mW.

The maximum peak radiated power is 1.962mW eirp for FCC ID: TCZ-10102911G1. The transmit frequency is 2402 to 2480MHz, 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: TCZ-10102911G1, is compliant with the requirements of FCC 15.247(i).