

## RF Exposure Analysis – SAR Test Exemption – POP

Date: 09-25-2024

FCC ID: 2AOG9POP2023

The POP remote control operates using a 433.92 MHz transmitter.

### **The following FCC Rule Parts and Procedures are applicable:**

KDB447498 D04 V01 – Interim General RF Exposure Guidance

Part 1.1307(b)(3)(i)(A) - Blanket RF exposure exemption (i)

Part 1.1307(b)(3)(i)(C) - MPE test exemption (ii)

Part 1.1307(b)(3)(i)(B) - SAR test exemption (iii)

### **For the POP**

Operating Frequency: 433.92 MHz

Tx Power<sub>max</sub> (declared): 73.20 dB $\mu$ V/m @3m = -22.03 dBm EIRP = -24.18 dBm ERP

Measured radiated power – Ref KDB447498 D04 Section 3.1.2 –

*When an antenna port is not available on the device to support conducted power measurement, e.g.: with built-in integral antennas, the available maximum output power or ERP, whichever is larger, and tolerance allowed for production units shall be used to determine RF exposure test exemption and compliance.*

### **Evaluation**

From Part 1.1307, RF exposure exemption applies if the maximum transmitted power is less than the maximum of the following three criteria:

- i) Less than 1 mw Blanket exemption.  $P_{TH} = 0.001 \text{ W}$  – §1.1307(b)(3)(i)(A)
- ii) determination of exemption under the MPE-based §1.1307(b)(3)(i)(C), if i) not met
- iii) determination of exemption under the SAR-based §1.1307(b)(3)(i)(B) if both i) and ii) are not met;

### **Conclusion**

The POP source-based, time-averaged power is -24.18 dBm.

i.e.: less than 1 mW (0 dBm), so complies with the RF exposure blanket exemption in accordance with §1.1307(b)(3)(i)(A).

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