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Client: Medeco Security Locks, Inc.
Model #: 10-15013
Standards: FCC 15.247/IC RSS-210
ID's: VR3-101501X/7465A-101501X
Report #: 2014065DTS

Appendix A: FCC Part 1.1307, 1.1310, 2.1091, 2.1093; IC RSS-Gen: RF Exposure

According to KDB447498D01 General RF Exposure Guidance v05 4.3.1. Standalone SAR test exclusion considerations, unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
☐ f(GHz) is the RF channel transmit frequency in GHz
☐ Power and distance are rounded to the nearest mW and mm before calculation17
☐ The result is rounded to one decimal place for comparison
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

The max conducted peak output power is 4 uW at 2405 MHz

The best case gain of the antenna is 0.5 dBi (1.1 numeric)

EIRP= 4 uW x 1.1 = 4.4 uW = 0.0044 mW (rounding to the nearest mW = 0 mW)

According to the formula calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [$\sqrt{f(GHz)}$]

General RF Exposure = (0 mW / 5 mm) x $\sqrt{2.405GHz}$ = 0 ①
SAR requirement:
S= 3.0 ② ;
① < ②.

Therefore, SAR evaluation is not required.