

February 18, 2022

RF Exposure Analysis (SAR Test Exemption): iLogger Case 4A

FCC ID: 2A350-ILOGGERCASE

The iSens Electronica Lda, equipment (Model: iLogger Case 4A) operates using a 13.56MHz transmitter.

The following FCC Rule Parts are applicable:

Part 2.1093 - Radiofrequency radiation exposure evaluation: portable devices

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

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

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

For model: iLogger Case 4A

Operating Frequency: 13.56MHz

Tx Power (conducted): -21.5dBm (0.007mW)

Antenna Gain: -7.1 dBi

Minimum separation distance (R) = 5mm (0.005m)

Evaluation

From Part 2.1093(c)(1), 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 iLogger Case 4A source-based, time-averaged power is less than 1mW, so complies with the RF exposure blanket exemption in accordance with §1.1307(b)(3)(i)(A).