

### Declaration of RF Exposure Compliance for SAR exclusion

**ATTESTATION:**

I attest that the radiocommunication apparatus meets the exclusion from the routine evaluation limits in Section 4.3 of KDB 447498 D01 v06; that the Technical Brief was prepared and the information contained therein is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the SAR limits of FCC part 1.1310

**Signature:**



**Date:**

**January 20, 2021**

**NAME (Please print or type):**

**Seungyong Shin**

**TITLE (Please print or type):**

**Technical Manager**

**COMPANY (Please print or type):**

**Nemko Korea Co.Ltd.**

**Model Number (Please print or type):**

**P/N 300107**

**FCC ID (Please print or type):**

**OELPN300107**

**Signature:**



**Date:**

**January 20, 2021**

**NAME (Please print or type):**

**So Young Kang**

**TITLE (Please print or type):**

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**i-SENS, Inc.**

**Model Number (Please print or type):**

**P/N 300107**

**FCC ID (Please print or type):**

**OELPN300107**

**Note:** The submission of this document is only required if the device meets the exemption limits for the routine evaluation in Section 4.3 of KDB 447498 D01 v06

**Technical Brief - Exclusion from Routine Evaluation Limits – SAR Evaluation**

As detailed in Section 4.3 of KDB 447498 D01 v06, the information contained in this RF exposure technical brief is limited to information that demonstrates how the output power of the device was derived to justify the exclusion from the routine evaluation.

The output power and operating frequency of the device are:

Mode	Frequency	Output Power	Result		Limit
			Cacluation	Remark	
BLE	2402 MHz	-0.44 dBm	0.065 W/kg	Estimated standalone 10g- SAR value for simultaneous transmission	0.4 W/kg
13.56MHz RFID	13.56 MHz	0.00003 mW	-	-	592.93mW

The Minimum Separation distance: 5mm

**\* SAR Test Exclusion calculation result for 10-g extremity SAR.**

**BLE**

- SAR Test Exclusion Threshold is determined according to the following equation as specified

KDB 447498 D01 4.3.2

- 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:

$[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]$ .

$[\sqrt{f(GHz)/x}] W/kg$ , for *test separation distances* ≤ 50 mm; where  $x = 7.5$  for 1-g SAR and  $x = 18.75$  for 10-g SAR.

**13.56MHz NFC**

- SAR Test Exclusion Threshold is determined according to the following equation as specified KDB 447498 D01 4.3.1.c)

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

1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f(MHz))]$  = 474.34 for 1-g SAR and 1185.85 for 10-g extremity SAR

2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2} = 237.17$  for 1-g SAR and 592.93 for 10-g extremity SAR

**Conclusion**

As the SAR Test Exclusion calculation result is below SAR test exclusion thresholds, the SAR evaluation is not required.