


# RF Exposure Report

**Project Number:** 4598567**Proposal Number:** 10361 rev3**Report Number:** 4598567EMC09**Revision Level:** 1**Client:** Owlet Baby Care Inc.**Equipment Under Test:** Owlet Smart Sock V3**Model:** OSS 3.0**FCC ID:** 2AIEP-OSS3A**Applicable Standards:** 47 CFR §§ 2.1093;**FCC KDB 447498 D01 General RF Exposure Guidance v06****Report issued on:** 07 July 2020**Result:** Exempt**Prepared by:**  
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*Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

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## 1 General Information

### 1.1 Client Information

Name: Owlet Baby Care Inc.  
Address: 2500 Executive Parkway Suite 500  
City, State, Zip, Country: Lehi, UT 84043, USA

### 1.2 Test Laboratory

Name: SGS North America, Inc.  
Address: 620 Old Peachtree Road NW, Suite 100  
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA  
Type of lab: Testing Laboratory  
Certificate Number: 3212.01

### 1.3 General Information of EUT

Equipment Under Test: Owlet Smart Sock V3  
Model: OSS 3.0  
Sample ID: 5220

FCC ID: 2AIEP-OSS3A

Frequency Range: 2402 – 2480 MHz  
Data Modes: Bluetooth Low Energy (GFSK)  
Antenna: Internal 3D Bent Metal Inverted F Antenna (-6.35 dBi)

Rated Voltage: 3.8 Vdc Rechargeable Lithium-Ion Coin Cell  
Test Voltage: 3.8 Vdc Rechargeable Lithium-Ion Coin Cell

Sample Received Date: 02 March 2020  
Dates of testing: 17 March 2020

## 2 SAR Exclusion Calculations

The highest output power in conjunction with the upper and lower frequency boundaries have been used to demonstrate compliance.

The EUT is considered an Extremity application.

### 447498 D01 General RF Exposure Guidance v06

#### SAR test exclusion calculations

Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations

	Input	Select Units
Max Power:	7.1	dBm
Min separation distance:	5	mm
Frequency, f:	2480	MHz

Value reference Number	Values used for Calculation	Reference number definition
v1	5 mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW
v2	5 mm	[min. test separation distance, mm] 'Rounded to nearest mm
v3	1.575	[√f(GHz)]

- a) For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:  

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]}{\leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR,}}$$

1g Exclusion Threshold:	9.5	mW	$\leq 3 \cdot v2 / v3$
10g Exclusion Threshold:	23.8	mW	$\leq 7.5 \cdot v2 / v3$

Conclusions:	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications
	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications

### 3 Revision History

Revision Level	Description of changes	Revision Date
Draft	--	28 May 2020
Rev 0	Initial Release	05 June 2020
Rev 1	Added Sample ID in section 1.3	07 July 2020