

## FCC SAR Exclusion Report

Product name : Launch  
Applicant : Feel Robotics  
FCC ID : 2AO5N-LCHD18

Test report No. : 180300416 FCC RF exposure Ver 1.00

## Laboratory information

### Documentation

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at Telefication Netherland

### Testing Location

<b>Test Site</b>	Telefication BV
<b>Test Site location</b>	Edisonstraat 12a 6902 PK Zevenaar The Netherlands  Tel. +31889983600 Fax. +31316583189

**Revision History**

Version	Date	Remarks	By
v1.00	17-08-2018	Release version	PvW

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## 1 General Description

### 1.1 Applicant

**Client name:** Feel Robotics  
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**Telephone:** (0)20 737 1194  
**E-mail:** maurice@kiiroo.com  
**Contact name:** Maurice op de Beek

### 1.2 Manufacturer

**Manufacturer name:** Feel Robotics  
**Address:** Amstelplein 62, Amsterdam, the Netherlands  
**Zip code:** 1096 BC  
**Telephone:** (0)20 737 1194  
**E-mail:** maurice@kiiroo.com  
**Contact name:** Maurice op de Beek

### 1.3 Tested Equipment Under Test (EUT)

**Product name:** Launch  
**Brand name:** Kiiroo  
**Product type:** Interactive Stroker  
**FCC ID:** 2A05N-LCHD18  
**IC ID:** 23801-LCHD18  
**Model(s):** Launch  
**Software version:** --  
**Hardware version:** Launch V2

## 1.4 SAR Measurement Evaluation

### 1.4.1 Maximum Output Power

The maximum radiated power including tune-up tolerance is shown as below.

Mode	2.4G Bluetooth
Bluetooth LE	-10.0 dBm*

\* from Telefication report 180300416 002 v1.00.

### 1.4.2 SAR Testing Exclusions

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

- For the test separation distance  $\leq 50$  mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

- For the test separation distance  $> 50$  mm, and the frequency at 100 MHz to 1500 MHz

$$\left[ (\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times \left( \frac{f_{(MHz)}}{150} \right) \right]_{(mW)}$$

- For the test separation distance  $> 50$  mm, and the frequency at  $> 1500$  MHz to 6 GHz

$$[(\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times 10]_{(mW)}$$

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
Bluetooth LE	-10.0	0.1	5	0.031	No

**Note:**

- When separation distance  $\leq 50$  mm and the calculated result shown in above table is  $\leq 3.0$ , the SAR testing exclusion is applied.
- When separation distance  $> 50$  mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.

## 1.5 Summary

Since the SAR testing for all device orientations apply SAR test exclusion per KDB 447498, SAR testing for this device is not required.