



## ***RF Exposure Evaluation Report***

***Applicant: Silk'n Beauty Ltd.***

***Equipment Under Test:***

***Silkin VII (with BLE Transceiver)***

***Model: H3500/H3501***

***FCC ID: 2BD6K-SILKNH3500***

***Issued by:***

***The Standards Institution of Israel  
Industry Division***

***Electrical & Electronics Laboratory  
EMC Branch***



## 1. Applicant information

Applicant:	Silk'n Beauty Ltd.
Address:	Alon-Hatavor 15, Caesarea, 3079516, Israel
Sample for test selected by:	The customer
The date of tests:	9 January & 23 March 2023

## Equipment under test information

Description of Equipment Under Test (EUT):	Silkin VII (with BLE Transceiver)
Model:	H3500/H3501
Software version of radio unit:	001
Hardware version:	PC116563x
Manufactured by:	Silk'n Beauty Ltd.

## 2. Test performance

Location:	SII EMC Section
Purpose of test:	To prove the safety of radiation harmfulness to the human body for our product
Test specifications:	FCC KDB 447498 D01 General RF Exposure Guidance v06

This Test Report contains 4 pages and may be used only in full.

This Test Report applies only to the specimen tested and may not be applied to other specimens of the same product.

## 3. Summary of test:

Using the general SAR test exclusion guidance in Section 4.2.4 of KDB 447498 D01 v06, we show the device meeting the SAR exemption.

Electronics and  
Telematics Laboratory

13 March 2024

Name: Eng. Yuri Rozenberg  
Position: Head of EMC Branch.

Name: Alexander Konkov.  
Position: Test engineer.

#### 4. Equipment under test description.

\*The applicant provided description.

##### 4.1 General description

The H3500/H3501 device is a personal home use hair removal device. It is used for permanent hair reduction of hair re-growth defined as long-term, stable reduction in hair counts following a treatment regiment.

H3500/H3501 is based on well-established Photo-Epilation technology. The term Photo-Epilation describes the use of a pulse of light to remove unwanted hairs.

The H3500/H3501 device have BLE V5.3 transceiver for connecting external devices (BLE option disabled in H3501 model). As a device owner you can enjoy Bluetooth connectivity. Just download the application and follow the registration process and Bluetooth pairing steps. The free Silk'n Hair Removal application supports your every step with Silk'n hair removal devices. The app creates your personalized treatment plan, helps you make the safest and most informed choices, and makes sure you follow through the entire course of treatment for best results.

#### EUT technical characteristics

Transmitter technical characteristics:		Note
Assigned frequency band	2400 MHz – 2483.5 MHz	-
Operating frequency range:	2402 MHz – 2480 MHz	-
DTS transmitter:	BLE	-
Types of modulation:	GFSK	-
Declare temperature range:	10°C - 35°C	Normal indoor use
Antenna information		
Type	Manufacturer/Model	Antenna gain, dBi
type of antenna is chip antenna and on PCB	YAGEO	5.05



## 5. FCC and ISEDC Exemption Limits for Routine Evaluation

### FCC SAR test exclusions per KDB 447498

KDB 447498 D01 General RF Exposure Guidance v06 Section: 4.3.1.

Standalone SAR test exclusion considerations states:

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:

$$\left[ \frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR, 30 where}$$

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds.

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 according to 4.1 f) is applied to determine SAR test exclusion.

### SAR Test Exclusion Threshold

Freq. [GHz]	d [mm]	Max. power [mW]	Calculation result	FCC Limit @ 5 mm [mW]	SAR Exclusion applicable (Yes/No)
2.402	5	0.417	0.13	3.0	Yes

**Summary:** SAR test exclusion threshold is  $< 3$  for separation distance of 5 mm. Therefore, SAR test is not required.