



RF Exposure Evaluation Report

For Theranica Bioelectronics Ltd.

Equipment Under Test:

Nerivio Migra transceiver

Model: FGD000075

FCC ID: 2AOH8-NM

***From The Standards Institution
Of Israel***

Industry Division

Electronics & Telematics Laboratory

EMC Branch



1. Applicant information

| | |
|------------------------------|---|
| Applicant: | Theranica Bioelectronics Ltd.. |
| Address: | 45 Ha-Melacha st., Netanya, 4250574, Israel |
| Sample for test selected by: | The customer |
| The date of tests: | 19, 26 March 2019 |

Equipment under test information

| | |
|--|-------------------------------|
| Description of Equipment Under Test (EUT): | Nerivio Migra transceiver |
| Model: | FGD000075 |
| Software version of radio unit: | 3.1.0.10 |
| Hardware version: | 2.0 (ELC-PCA-010-2.0) |
| Manufactured by: | Theranica Bioelectronics 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

July 28, 2019

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

Name: Michael Feldman.
Position: Test engineer.



4. Equipment under test description.

*The applicant provided description.

4.1 General description

Nerivio Migra (NM, the EUT) is a wearable, battery-powered device for the acute treatment of migraines with or without aura. Nerivio Migra is operated via a mobile application. The device is worn on a user's upper arm and delivers transcutaneous electrical nerve stimulation ("TENS") via weak electrical pulses to achieve migraine pain inhibition via conditional pain modulation (CPM). Treatments with Nerivio Migra are intended to be self-administered by the user at onset of a migraine attack. The NM uses standard BLE 4.2 for communication utilizing off-the-shelf Cypress controller.

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 4.2 | - |
| Types of modulation: | GFSK | - |
| Declare temperature range: | 0°C - 35°C | Normal indoor use |
| Antenna information | | |
| Type | Manufacturer/Model | Antenna gain, dBi |
| BT PCB printed antenna | Cypress. MIFA PCB printed | 1.6 |



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 ≤ 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 ≤ 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) |
|-------------|--------|-----------------|--------------------|-----------------------|-----------------------------------|
| 2.4 | 5 | 0.4 | 0.124 | 3.0 | Yes |

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