RF Exposure Exhibit

EUT Name: NeuroPace® RNS® Neurostimulator

Model No.: RNS-320

CFR Part 2.1093

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1 Test Methodology

In this document, we evaluate the RF Exposure to human body due the intentional transmission from the transmitter (EUT). The limit for Maximum Permissible Exposure (MPE) specified in FCC 2.1093 is followed. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis transmission formula is a far field assumption, the calculated result of that is an over-prediction for near field power density. We will take that as the worst case to specify the safety range.

1.1 RF Exposure Requirements

The NeuroPace® RNS® Neurostimulator Model RNS-320 is an implant device. It is powered by the primary cell, and it has no charging capability. According to CFR47 Part 2.1093(c) the NeuroPace® RNS® Neurostimulator Model RNS-320 is categorically excluded from routine environmental evaluation for RF exposure.

Base on the commission's recommendation of PBA Inquiry for the related device, Wand W-02, the antenna coil dimension and feeding current information is stated in the RNS-320 Operation Description. Please refer to Page 5 to 7 of the document.

The related PBA inquiry is attached as an operational description exhibit.

1.2 Test Procedure

Test is not required.

1.3 MPE calculation

Not Applicable

1.4 Conclusion

SAR data is not required for FCC since the NeuroPace® RNS® Neurostimulator Model RNS-320 is categorically excluded according to KDB 447498.