



MODEL 2100 AND 2102 IPG SAR ANALYSIS REPORT

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REPORT

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1. INTRODUCTION

1.1. Purpose / Scope

This document provides the SAR simulation results applicable to the Model 2100 and 2102 IPGs to demonstrate compliance to radio frequency exposure limits as defined in 47 CFR Part 1, section 1.1307 and in 47 CFR Part 2, section 2.1093. The results are based on simulation of a Model 2101 IPG which has identical enclosure, header, and antenna.

2. DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

Acronym/ Abbreviation	Definition
IPG	Implantable Pulse Generator
SAR	Specific Absorption Rate

3. SUMMARY

The Model 2100 and 2102 IPGs are identical to the Model 2101 IPG from an RF perspective. The Model 2101 IPG simulation report included in Appendix A is applicable to the Model 2100 and 2102 IPGs since they are derived from the Model 2101 IPG with identical enclosure, header, and antenna. The only RF difference from the Model 2101 to the Models 2100 and 2102 is the use of an updated RF telemetry module. This difference affects the transmitter power level at the antenna input and scales the SAR values, but otherwise has no affect on the simulation model.

The Model 2100 and 2102 transmitter power measured when using the antenna impedance from the Appendix A report ranged from -2.8dBm to -2.5dBm. The 0dBm transmitter power level used in the Appendix A report exceeds these measurements and therefore the SAR values for the Model 2100 and 2102 IPGs will be lower than the values listed in Appendix A and are therefore passing as well.

4. APPENDICES

Appendix No.	Document Title
Appendix A	CVRx IPG Model 2101 SAR Report