

06FEB2019

RE: CareLink USB Product Description

Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046

To whom it may concern:

Medtronic MiniMed hereby requests a Permissive Change Class II of the radio equipment certification for the CareLink USB certification number, FCC ID: OH27306. This product differs from the originally approved product in the following manor:

(a) Associated digital circuitry. – A replacement antenna (Johanson 2450AT18B100E) was selected to replace the current antenna (Murata ANCV12G44SAA127) Y3 on the CareLink USB 2.4 due the current production antenna being obsolete. The Johanson antenna will be placed with a 180 degree shift from the current orientation in order to move the RF field away from the USB connector. The dielectric thickness of the PCB material was adjusted to maintain impedance matching as a result of varied properties of the new antenna. Additionally, a ferrite bead inductor R11 was added to separate the RF and ground planes to reduce system noise.

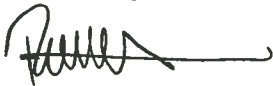
Several end of life (EOL), or near end of life capacitors were also replaced in the design change. The new components are drop-in replacements and are form, fit, and functionally equivalent to the current components.

(b) Functional capabilities. – No changes were made to functional capabilities.

(c) Cosmetic differences – None

I do attest that there were no intentional changes to field strength and/or RF output power from the original radio submission.

Sincerely,

A handwritten signature in black ink, appearing to read "Bob Vitti", is written over a horizontal line.

**Bob Vitti**

Sr Program Manager | RF-EMC-Safety Certification  
Medtronic, Inc. | Diabetes