Insulet Corporation

Attention:
Application Examiner
Reviewing Engineer
Federal Communications Commission
[Address]

Re: Class 2 Permissive Change Justification for UST500
FCC ID: RBV-019

Dear Sir or Madam:

The model numbers UST500 is a variant of the OmniPod PDM (UST400) which was filed under the FCC ID: RBV-019 designation. The original model that has received the RBV-019 designation is the OmniPod PDM (UST400).

Following are description of differences / changes between the original OmniPod PDM (UST400) and the UST500 model.

- Both UST400 and the UST500 consist of two PCBAs. One is the main PCBA which contains all the radio, processing, and memory modules and a separate PCBA (daughter board) which contain blood glucose measurement circuit.
- The differences between these two models reside only in their blood glucose measurement daughter boards.
- The original UST400 uses a BG meter which is licensed technology from 3rd party (Abbot), while the UST500 uses a BG meter from a different 3rd party.
- Both UST400 and UST500 daughter boards have the same footprint and mechanical dimensions with the exception of electronics circuit /components and the electrical layout being different.
- There is no radio related circuit / component on the daughter boards. The only function of the daughter board is to measure the blood glucose value.
- Due to the change of daughter board, the RF emission test was repeated for the UST500 model. Since the measured radiated RF output power was more than 3dB different from the original RBV-019 filing, a class 2 certification is required for the UST500 model.
- With respect to the RF circuitry, there was no change to the main PCBA which contains the RF circuits, nor has any change been made to the antenna. The main PCBA schematics, layout, components, BOM, and antenna are exactly the same on both UST400 and UST500 models.
- Therefore, there was no change to frequency, RF output power, or modulation scheme.

If additional information or explanation is required to grant this request, please contact the undersigned.

Sincerely, 10/15/2013

Mohsen Moghaddami
Project Director, Electrical Engineering
Insulet Corporation