



Masimo  
52 Discovery  
Irvine CA 92618

### **Cover letter for FCC application**

Masimo Corporation is submitting the Radius PPG wireless receiver for FCC original certification.

Radius PPG wireless receiver utilizes below two radios:

- 1) Near Field Communication [13.56 MHz]: utilizes TRF7970A chip with FPC Coil Antenna ( Molex P/N 146236-0101)
- 2) Bluetooth: utilizes nRF52840 radio with printed inverted-F antenna

Radius PPG wireless receiver pairs up with Radius PPG reusable chip using NFC radio to establish communication over Bluetooth Low Energy to support continuous noninvasive monitoring of functional oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>), pulse rate (PR), and perfusion index (Pi). NFC is used only for pairing (MAC address transfer) the Radius PPG wireless receiver with Radius PPG reusable chip. After pairing, BLE communication is established. NFC radio and BLE radio do not transmit at the same time.

Radius PPG wireless receiver has been tested to 47 CFR § FCC 15.247 and FCC 15.225 [13.56 MHz].It's FCC ID is VKF-AIRDG01.

During radio testing the product was labelled as 'AIR01 Receiver' however during later phase of product release it has been re-named as 'Radius PPG wireless receiver'. But none the less both the names refer to same product.

Respectfully,

A handwritten signature in black ink, appearing to read 'A Joshi'.

Anamidevi Joshi  
EMC Project Manager  
Masimo Corporation