




Canada

Exhibit: RF Exposure – FCC

FCC ID: ZZNPM300

Report File #: 7169010151RF-000

Client	4iiii Innovations Inc.	
Product	Precision 3 Powermeter – PML300	
Standard(s)	FCC KDB 447498 v06	

RF Exposure – FCC

The device is intended for use close to the extremities (feet) and the minimum separation distance from the radiating structure to any part of the body or extremity of a user is 22mm as stated by the manufacturer during normal operation.

The device contains a BLE transmitter and an ANT+ transmitter. They are on the same chip, use the same antenna and cannot operate simultaneously. Therefore, antenna co-location testing is not applicable.

General SAR test exclusion guidance:

As per FCC KDB 447498 Section 4.3.1 a), the 10-g extremity SAR Test Exclusion Threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm is determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] [\sqrt{f_{(\text{GHz})}}] \leq 7.5$$

Where:

$f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz

SAR Calculations: 2402 – 2480 MHz ANT+ transmitter

Peak isotropically radiated power (e.i.r.p.) was measured to be -11.5dBm or 0.07mW. At a separation distance of 22mm, this results to:

$$[0.07 \text{ mW} / 22 \text{ mm}] * [\sqrt{2.480 \text{ GHz}}] = 0.005 \leq 7.5$$

SAR Exclusion Threshold condition is met with peak radiated power.

SAR Calculations: 2402 – 2480 MHz BLE transmitter

Peak conducted power was measured to be 0.68 mW. At a separation distance of 22mm, this results to:

$$[0.68 \text{ mW} / 22 \text{ mm}] * [\sqrt{2.480 \text{ GHz}}] = 0.05 \leq 7.5$$

SAR Exclusion Threshold condition is met with peak conducted power.

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