



Canada

Exhibit: RF Exposure – FCC

FCC ID: 2AK9O-485BT20

Client	Prolon Inc.	 Canada
Product	ProLon BLE Converter	
Standard(s)	FCC Part 15 Subpart 15.247:2017 FCC KDB 447498:2015	

RF Exposure – FCC

The device is intended for use typically at distances exceeding 20 cm, but the minimum separation distance from the radiating structure to any part of the body or extremity of a user is note stated, however it meets the limit at 5 mm, and is therefore exempt from the requirement.

General SAR test exclusion guidance:

As per FCC KDB 447498 Section 4.3.1 a), the 1-g SAR Test Exclusion Threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm is determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f_{(\text{GHz})}}] \leq 3.0$$

Where:

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

SAR Calculations: 2402 – 2480 MHz DTS transmitter

Peak conducted power was measured to be 0.32 mW. At a separation distance of 5mm, this results to:

$$[0.32 \text{ mW} / 5 \text{ mm}] * [\sqrt{2.480 \text{ GHz}}] \\ 0.064 * 1.575 = 0.1 \leq 3.0$$

SAR Exclusion Threshold condition is met with peak radiated power.