

RF Exposure Report

Project Number: 4354005**Proposal Number: 6980****Report Number: 4354005EMC03****Revision Level: 0****Client: 4iiii Innovations Inc.****Equipment Under Test: RTU Interface****Model: RTU100****FCC ID: ZZNRTU100****Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498****FCC KDB 447498 D01 General RF Exposure Guidance v06****Report issued on: 28 February 2019****Test Result: Compliant**

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Client Information

Name: 4iiii Innovations Inc.
Address: 141 2nd Ave East
City, State, Zip, Country: Cochrane, Alberta, Canada T4C 2B9

1.1 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.2 General Information of EUT

Type of Product: RTU Interface
Model: RTU100
Serial Number: Not labeled

Frequency Range: 2402 – 2480 MHz
Data Modes: Bluetooth Low Energy
Antenna: External Antenna (7dBi)

Rated Voltage: 9 – 24 Vdc
Test Voltage: 12 Vdc

Sample Received Date: 05 September 2018
Dates of testing: 15 January 2019

1.3 Operating Modes and Conditions

Continuous traffic was generated using test commands. The device was programmed to transmit at low, middle, and high channels.

Channel 0, 2402MHz

Channel 19, 2440MHz

Channel 39, 2480MHz

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum measured conducted power, the power density was calculated. Maximum antenna gain was assumed for this exercise.

2.3 Single transmission RF Exposure Levels (mW/cm²)

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density EIRP _{avg} /(4πR ²) mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
Bluetooth LE	2400-2483.5	6.2	7.0	0.0	13.2	21	20	0.004	1.00	0%	Pass