

RF Exposure Report

Project Number: 4198004

Report Number: 4198004EMC02

Revision Level: 0

Client: ITRON DEM Inc.

Equipment Under Test: WiFi Board

Model: BRD-000021-02

FCC ID: RAB-IPDL-WT1

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

FCC OET Bulletin 65 Supplement

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: ITRON DEM Inc.
Address: 5390 Triangle Parkway Suite 300
City, State, Zip, Country: Norcross, GA 30092 USA

1.2 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

1.3 General Information of EUT

Type of Product: WiFi Board
Model Number: BRD-000021-02
Serial Number: 4645041

Frequency Range: 2400-2483.5MHz
Data Modes: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40),
Antenna: PCB Trace Antenna, Tuned Dipole, 2.1dBi

Rated Voltage: 120Vac, 60Hz
Test Voltage: 120Vac, 60Hz

Sample Received Date: 17 August 2017
Dates of testing: 17 August - 22 September 2017

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum measured radiated power was considered.

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.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density $EIRP_{avg}/(4\pi R^2)$ mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
WLAN 2.4	2400-2483.5	12.3	2.15	0.0	14.5	28	20	0.006	1.00	1%	Pass