

RF Exposure Report

Project Number: 4897775**Proposal:** SUW-202108001494**Report Number:** 4897775EMC02**Revision Level:** 0**Client:** Windrock, Inc.**Equipment Under Test:** Wireless Encoder**Model Number:** A6420**FCC ID:** VYK-A6420**Applicable Standards:** 47 C.F.R. §§ 2.1091; FCC KDB 447498**FCC OET Bulletin 65 Supplement****Report issued on:** 26 April 2022**Test Result:** Compliant

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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Reviewed by:
Jeremy Pickens, RF Lab Manager

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1 General Information

1.1 Client Information

Name: Windrock, Inc
Address: 1832 Midpark Rd, Suite 102
City, State, Zip, Country: Knoxville, TN 37921

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

EUT: Wireless Encoder
Model Number: A6420-00-00
Serial Number: 1808642281

Frequency Range (900): 903.45 to 921.45 MHz
Channels (900): 8
Modulation type (900): GFSK
Antenna (900): 3.8dBi Whip Element w/Base & Cable
(Linx Technologies, ANT-ELE-S01-005 / ANT-MAG-B85-RPS)

Frequency Range (BT): 2402 to 2480 MHz
Channels (BT): 79 Channels
Modulation type (BT): Bluetooth GFSK, EDR-2, EDR-3 (DH1, DH3, DH5)
Antenna (BT): -0.9dBi Monopole (Linx Technologies, ANT-2.4-CW-RH)

Rated Voltage: 7.2 Vdc Li Ion Battery

Sample Received Date: 18 March 2022
Dates of testing: 13 – 15 April 2016

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum measured peak conducted 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 peak conducted power, the power density was calculated. Maximum antenna gain was assumed for this exercise.

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} /(4πR ²) mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
Bluetooth	2400-2483.5	1.4	-0.9	0.0	0.5	1	20	0.000	1.00	0.02%	Pass
Sub GHz	902-928	11.4	3.8	0.0	15.2	33	20	0.007	0.60	1.10%	Pass

2.4 Simultaneous transmission RF Exposure Levels

With both radios transmitting simultaneously, the summed percentage of the limit is 1.12% of the FCC limit.

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	26 April 2022