RF Exposure Report

Project Number: 4804611 **Proposal:** SUW-202106001163

Report Number: 4804611EMC07 **Revision Level:** 0

Client: Fan Innovations, LLC

Equipment Under Test: Bite Force Amplitude Controller (Receiver)

Model Name: BFAC

Type/HVIN: 20031

FCC ID: 2A2WP-20031

Applicable Standards: 47 CFR §§ 2.1093;
FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 31 January 2022

Result: Exempt

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01
This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by: Martin Taylor, Project Engineer

Reviewed by: Jeremy Pickens, RF Lab Manager

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:	Fan Innovations, LLC
Address:	6405 Lake Shadows
City, State, Zip, Country:	Hixson, TN 37343, 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
Designation Number:	US1126
ISED Registration:	9984A
CAB Identifier:	US0186

1.3 *General Information of EUT*

Product Description:	Bite Force Amplitude Controller (Receiver)
Type/HVIN:	20031
Serial Number:	166000003 (Low), 165600007 (Middle), 166000002 (High)
Frequency Range:	912 – 919 MHz
Data Modes:	GFSK
Antenna:	External Dipole (1.2dBi Peak Gain) Linx, P/N: ANT -916-CW-HWR-CC
Rated Voltage:	100-240Vac, 50/60Hz AC Adapter; 12Vdc Output
Test Voltage:	120Vac, 60Hz; 12Vdc
Sample Received Date:	02 August 2021
Dates of testing:	02 – 11 August 2021

1.4 *Operating Modes and Conditions*

Maximum Conducted Power levels were utilized for all calculations.

2 SAR Exclusion Calculations

	Input	Select Units	
Max Power:	0.022	mW	
Duty Cycle:	100.0%		<== *Source based time average duty cycle*
Min separation distance:	5	mm	
Frequency, f:	915	MHz	

Value reference Number	Values used for Calculation		Reference number definition
v1	0.02	mW	*[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW*
v2	5	mm	*[min. test separation distance, mm] 'Rounded to nearest mm*
v3	0.957		*[√f(GHz)]*

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

Exclusion Calculation(1g):	0.004	number	<== *[v2 / v3] must be less than 3*
Exclusion Calculation(10g):	0.004	number	<== *[v2 / v3] must be less than 7.5*

Conclusions (Body):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications
Conclusions (Extremity):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	31 January 2022