



RF Exposure Report

Project Number: 4997926**Proposal Number:** SUW-202207003065**Report Number:** 4997926EMC03**Revision Level:** 1**Client:** Vanu Inc.**Equipment Under Test:** Anywave LTE BTS**Model Name:** Anywave**Model Number:** VA60003-0001**FCC ID:** RD6-VA60003-0001**Applicable Standards:** 47 CFR §§ 2.1091**FCC KDB 447498 D01 General RF Exposure Guidance v06****FCC OET Bulletin 65****Report issued on:** 13 February 2023**Result:** Compliant

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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Prepared by:
Andrew Bluhm, Jr RF/EMC Engineer**Reviewed by:**
Martin Taylor, Sr RF/EMC Project Engineer

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1 General Information

1.1 Client Information

Name: Vanu Inc.
Address: 81 Hartwell Ave Suite 200
City, State, Zip, Country: Lexington, MA 02421

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: Anywave LTE BTS
Model Number: VA60003-0001
Serial Number: 194216006

Frequency Ranges: 1930 – 1990 MHz (LTE Band 2 Downlink)
2110 – 2155 MHz (LTE Band 4 Downlink)
869 – 894 MHz (LTE Band 5 Downlink)

Max Antenna Gain: 1930 - 1990MHz, 24.4dBi*
2110 – 2155MHz, 25.4dBi*
869 – 894MHz, 23.7dBi*

Max Conducted Output Power: LTE Band 2: 12.58 dBm
LTE Band 4: 11.64 dBm
LTE Band 5: 10.93 dBm

**No antenna was provided. This is the maximum gain antenna that can be used with this device.*

1.4 Operating Modes and Conditions

Maximum power levels were utilized for all calculations. Simultaneous transmissions are not applicable for this product.

2 RF Exposure

2.1 Test Results

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

2.2 Test Method

The formula below calculates power density.

$$S = \frac{PG}{4\pi R^2} \quad \text{Or} \quad S = \frac{EIRP}{4\pi R^2}$$

Where;

S = Power density (mW/cm²)

P = Maximum sourced based average power delivered to antenna port (mW)

G = Maximum power gain of the antenna in the direction of interest relative to an isotropic radiator (dBi)

R = Distance between by-stander and antenna (cm)

EIRP = Equivalent (or effective) isotropically radiated power

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					
LTE Band 2	1930-1990	12.6	24.4	0.0	37.0	5023	20	0.999	1.00	100%	Pass
LTE Band 4	2110-2155	11.6	25.4	0.0	37.0	5012	20	0.997	1.00	100%	Pass
LTE Band 5	869-894	10.9	23.7	0.0	34.6	2904	20	0.578	0.58	100%	Pass

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial Release	12 January 2023
1	Added FCC ID on title page	13 February 2023