

RF Exposure Evaluation Report

Report No.: JYTSZ-R12-2501527

Applicant: Nextivity, Inc.

Address of Applicant: 16550 West Bernardo Drive, Bldg 5, Suite 550 San Diego, CA 92127, USA

Equipment Under Test (EUT)

Product Name: Cellphone Signal Booster

Model No.: NU: Q51-RXNU, CU: Q51-RXCU

Trade mark: CEL-FI

FCC ID: NU: YETQ51-RXNU, CU: YETQ51-RXCU

Applicable standards: FCC CFR Title 47 Part 2 (§2.1091)

Date of sample receipt: 14 Oct., 2025

Date of Test: 15 Oct., to 17 Nov., 2025

Date of report issue: 18 Nov., 2025

Test Result: PASS

Project by:

Lu Yan Ping
Project Engineer

Date:

18 Nov., 2025

Reviewed by:

Jiet Hong
Senior Engineer

Date:

18 Nov., 2025

Approved by:

Junse Wei
Manager

Date:

18 Nov., 2025

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	18 Nov., 2025	Original

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3 General Information

3.1 Client Information

Applicant:	Nextivity, Inc.
Address:	16550 West Bernardo Drive, Bldg 5, Suite 550San Diego, CA 92127, USA
Manufacturer:	Nextivity, Inc.
Address:	16550 West Bernardo Drive, Bldg 5, Suite 550San Diego, CA 92127, USA

3.2 General Description of E.U.T.

Product Name:	Cellphone Signal Booster	
Model No.:	NU: Q51-RXNU, CU: Q51-RXCU	
n77 Specification		
Operation Frequency:	n77: Downlink: 3450 MHz to 3550 MHz, Uplink: 3450 MHz to 3550 MHz n77: Downlink: 3700MHz to 3980 MHz, Uplink: 3700 MHz to 3980 MHz	
Antenna Type:	External Antenna Q51-RXNU: LPDA Antenna(A62-V44-200) Q51-RXCU: Omni Whip Antenna(A21-ML3-600)	
Antenna gain:	Frequency Range	LPDA Antenna A62-V44-200 (with 65 cm Separation)
	3300 – 4000MHz	12dBi
	Frequency Range (Service Bands)	Whip Antenna A21-ML3-600 (with 20 cm Separation)
	3300, 3500, 3600, 3700, 3450	1.5dBi
	(declare by Applicant)	
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

3.3 Disclaimer

Disclaimer:
For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

3.4 Operating Modes

Operating mode	Detail description
Uplink mode (NU TX)	Input signal is applied to antenna port of CU. Output is monitored from antenna port of NU.
Downlink mode (CU TX)	Input signal is applied to antenna port of NU. Output is monitored from antenna port of CU.

3.5 Additions to, deviations, or exclusions from the method

No

3.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4 Technical Requirements Specification

4.1 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

4.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

4.3 Result

This is the absolute gain(including cable loss) that can be used with the EUT(worst case):

Mode	Maximum Tune-up power (dBm)	Maximum Output power (mW)	Distance (cm)	The exposure value under prediction	Limits for General Population/ Uncontrolled Exposure (mW/cm ²)	Antenna Gain (numeric)	Antenna Gain (dBi)
NR n77 CU							
n77(3450-3550)	26.74	472.063	20.00	0.939	1.0	10	10
n77(3700-3980)	26.75	472.151	20.00	0.940	1.0	10	10
NR n77 NU							
n77(3450-3550)	24.73	297.167	65.00	0.995	1.0	177.83	22.5
n77(3700-3980)	24.21	263.633	65.00	0.991	1.0	199.526	23

Measurement data(worst case according to antenna gain):

Mode	Maximum Tune-up power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm ²)	Limits for General Population/ Uncontrolled Exposure (mW/cm ²)
NR n77 CU							
n77(3450-3550)	26.74	472.063	1.5	1.413	20.00	0.133	1.0
n77(3700-3980)	26.75	472.151	1.5	1.413	20.00	0.133	1.0
NR n77 NU							
n77(3450-3550)	24.73	297.167	12	15.849	65	0.089	1.0
n77(3700-3980)	24.21	263.633	12	15.849	65	0.079	1.0

Note: Just the worst case mode was shown in report.

4.4 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

-----End of report-----