

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WS9XVL

(Call Sign)

1297-EX-ST-2021

(File Number)

NAME Sky Valley Network LLC

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

This will allow testing in 5925 MHz to 7125 MHz
based on FCC 18-147, ET Docket 18-295.

Station Locations

(1) Ramona (SAN DIEGO), CA - NL 33-02-43; WL 116-57-34

Frequency Information

Ramona (SAN DIEGO), CA - NL 33-02-43; WL 116-57-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5945-6123.5 MHz	FX	20M0D7W 40M0D7W 80M0D7W	2.43 W (ERP)	0.001 %
6197-6345 MHz	FX	20M0D7W 40M0D7W 80M0D7W	2.43 W (ERP)	0.001 %

This authorization effective October 13, 2021 and
will expire 3:00 A.M. EST March 19, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The applicant shall coordinate with the Fixed Microwave Service licensees in the proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.
- (4) The authorized antennas' conducted power/input power and EIRP must not exceed the maximum EIRP limits including footnote 34 of the Unlicensed Use of the 6 GHz Band, 35 FCC Rcd 3852, 3853 (2020). If the antenna gain of Mimosa C5X is greater than 6 dBi, the conducted power/input power must reduce by the amount the antenna gain is greater than 6 dBi.

- (5) For outdoor operations:

() For an outdoor standard power access point (AFC Controlled) and fixed client device operating in the 5.925-6.425 GHz (U-NII-5) band, the maximum power spectral density must not exceed 23 dBm (200mW) EIRP in any 1-megahertz band. In addition, the maximum EIRP over the frequency band of operation must not exceed 36 dBm (which is equivalent to 4 watts):

Frequency band	Antenna Maximum input power/	Maximum
Maximum		
Gain	Conducted Power	authorized power
5.925-6.425 GHz	6 dBi 30 dBm/1watt/0dBW	2.43 W ERP
2.43W ERP/ 4 watts/ 36 dBm/ 6dBW		

() For conducting outdoor tests in the 5.925-6.425 GHz (U-NII-5) frequency band, the maximum EIRP from a Standard-Power Access Point (AFC Controlled) and fixed client device must not exceed 125 mW (21 dBm) at any elevation angle of more than 30 degrees above the horizon to protect satellite receivers.

() For client device (Client Connected to outdoor standard power access point), operating in the 5.925-6.425 GHz (U-NII-5) frequency band, the maximum power spectral density must not exceed 17 dBm (0.05 W) EIRP in any 1-megahertz band. In addition, the maximum EIRP over the frequency band of operation must not exceed 30 dBm (1 watt):

Frequency band	Max. authorized power	Maximum EIRP
5.925-6.425 GHz	0.61 W ERP	0.61 W ERP/1 watt/ 30 dBm/ 0dBW

Special Conditions:

(6) For indoor operations:

() For an indoor Low-Power access point operating in the 5.925-6.425 GHz (U-NII-5) band, the maximum power spectral density must not exceed 5 dBm (0.0032 W) EIRP in any 1-megahertz band. In addition, the maximum EIRP over the frequency band of operation must not exceed 30 dBm (1 watt). Access points operating under this section must employ a permanently attached integrated antenna:

Frequency band	Maximum authorized power	Maximum EIRP
5.925-6.425 GHz 30 dBm/ 0dBW	0.61 W ERP	0.61 W ERP /1 watt/

() For client device (Client Connected to indoor Low-Power access point), operating under the control of an indoor access point in the 5.925-6.425 GHz (U-NII-5) band, the maximum power spectral density must not exceed -1 dBm (0.00079 W) EIRP in any 1-megahertz band, and the maximum EIRP over the frequency band of operation must not exceed 24 dBm (250mW):

Frequency band	Maximum authorized power	Maximum EIRP
5.925-6.425 GHz dBm/ -6dBW	0.153 W ERP	0.153 W ERP / 0.25 watt/ 24

(7) For out of band emission limit:

() For transmitters operating within the 5.925-6.425 GHz (U-NII-5) band: Any emissions outside of the 5.925-6.425 GHz (U-NII-5) band must not exceed an EIRP of -27 dBm /MHz (The -27 dBm is equivalent to 0.000002 W)