

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

EXPERIMENTAL

(Nature of Service)

WS9XJA

(Call Sign)

XC MO

(Class of Station)

0997-EX-ST-2021

(File Number)

NAME MIT Lincoln Laboratory

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:

These radios would support the networking infrastructure of a system used to detect and track targets in an urban environment using sensors located in multiple locations.

Station Locations

(1) MOBILE: Cambridge, MA, within 2 km, centered around NL 42-21-24; WL 71-06-05

Frequency Information

MOBILE: Cambridge, MA, within 2 km, centered around NL 42-21-24; WL 71-06-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2200-2300 MHz	MO	22M6D7W 11M3D7W 5M65D7W	13 W (ERP)	0.0005 %
4400-4500 MHz	MO	22M6D7W 11M3D7W 5M65D7W	13 W (ERP)	0.0005 %

This authorization effective July 09, 2021 and
will expire 3:00 A.M. EST December 16, 2021

**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) MIT Lincoln Laboratory notch the following frequencies:
 - a. 2227 MHz (+/- 2.5 MHz)
 - b. 2250 MHz (+/- 1.2 MHz)
 - c. 2262.5 MHz (+/- 1.2 MHz)
 - d. 2402 MHz (+/- 115 kHz)
 - e. 4405 MHz (+/- 4 MHz)
 - f. 4415 MHz (+/- 4 MHz)
 - g. 4465 MHz (+/- 4 MHz)
 - h. 4475 MHz (+/- 4 MHz)
- (4) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number FA8701-15-D-0001. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.