

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

EXPERIMENTAL

(Nature of Service)

WK2XXP

(Call Sign)

XT MO

(Class of Station)

1438-EX-ST-2020

(File Number)

NAME Brown University

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 band will be used to to collect data on both propagation and data transmission speed and error rate in order to design communications systems in this general area of EHF

Station Locations

- (1) MOBILE: Brown University Campus, Providence, RI, within 1.5 km, centered around NL 41-49-35; WL 71-23-50

Frequency Information

MOBILE: Brown University Campus, Providence, RI, within 1.5 km, centered around NL 41-49-35; WL 71-23-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
97.5-103 GHz	MO	2G00K1D	50 W (ERP)	1.0E-6 %

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.

This authorization effective October 08, 2020 and
will expire 3:00 A.M. EST April 09, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Brown University should either notch the 100-102 GHz frequency range, or coordinate operation with the Haystack Observatory point of contact when transmitting in this range:
Dr. Philip Erickson
Associate Director, Haystack Observatory
Email: pje@mit.edu
Telephone: 617-715-5769
- (4) Brown University avoid transmissions in the direction of Haystack Observatory (please see <https://www.haystack.mit.edu/about/haystack-telescopes-and-facilities/haystack-37m-radio-antenna-radome/>).
- (5) All operations are limited to propagation measurement experiments, and Brown University shall be aware that long term or multiple location use of passive only allocations may not be possible. Brown University shall have no expectations that future requests for operational use of this frequency band will be approved. It is recommended Brown University ensure that future operational use of this equipment be conducted in appropriately allocated frequency bands.
- (6) The Stop Buzzer, Dr. Mittleman at (713) 992-4137.