

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WI2XVS

(Call Sign)

0154-EX-CM-2017

(File Number)

NAME Brown University

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(H) of the Commission's Rules

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	NON 100MNON 100MNON	50 W (ERP)	0.00001 %
100-102 GHz	MO	100MNON 100MNON	50 W (ERP)	0.00001 %
195-205 GHz	MO	NON 100MNON	12.6 W (ERP)	0.00001 %

This authorization effective July 18, 2017 and
will expire 3:00 A.M. EST July 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



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 (+/-)
292-308 GHz	MO	100MN0N	2.8 W (ERP)	0.00001 %
390-410 GHz	MO	N0N 100MN0N	4 W (ERP)	0.00001 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) The designated point of contact to terminate the systems if interference occurs is Dr. Mittleman at 713-992-4137.
- (4) Operations in the 100-102 GHz and 200-205 GHz frequency bands are granted on a strict non-interference basis to the Earth Exploration-Satellite (passive), Radio Astronomy, and Space Research (passive) services. The licensee acknowledges that long term or multiple location use of passive bands is not possible, and the licensee shall transition any long-term use to a band with appropriate allocations.