

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

EXPERIMENTAL

(Nature of Service)

WM9XHF

(Call Sign)

XT MO

(Class of Station)

0935-EX-ST-2018

(File Number)

NAME Radio Physics Solutions

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 test will deal with the effectiveness of this technology when implemented in the 81-86 GHz band and used in typical commercial indoor environments to detect simulate security threats.

Station Locations

(1) MOBILE: States of CA, DC, MD, TX, VA

Frequency Information

MOBILE: States of CA, DC, MD, TX, VA

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
83.5 GHz	MO	5G00F0N	12 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 STOP BUZZER contact for this experiment is Michael Marcus, mjmarcus@marcusspectrum.com, 301-229-7714

This authorization effective July 11, 2018 and
will expire 3:00 A.M. EST January 11, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) Operation is permitted INDOOR ONLY.
- (5) Radio Physics Solution, coordinate the operation with the existing users in 81-86 GHz band in requested area prior to commencing the experimental operations.
- (6) Radio Physics Solutions shall comply with the limits of unwanted emission recommendations specified in Resolution 750 (Rev. WRC-15).
- (7) NTIA does not object to indoor operations of this equipment, so long as no interference is observed at radio astronomy facilities. If interference is detected at astronomical facilities, coordination will be required with the National Science Foundation (NSF), Dr. Glen Langston, glangsto@nsf.gov , or 1-703-292-4937.