

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

EXPERIMENTAL

(Nature of Service)

WN9XQK

(Call Sign)

XT MO

(Class of Station)

1883-EX-ST-2018

(File Number)

NAME Samsung Electronics America, Inc

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:**

The purpose of the proposed operations is to conduct an internal market trial of new communications equipment systems compliant with Part 5, Subpart H, Rule 5.602.

**Station Locations**

- (1) MOBILE: Minneapolis, MN, within 2 km, centered around NL 44-58-38; WL 93-15-56
- (2) MOBILE: Bloomington, MN, within 2 km, centered around NL 44-48-26; WL 93-22-32

**Frequency Information**

MOBILE: Minneapolis, MN, within 2 km, centered around NL 44-58-38; WL 93-15-56

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2412-2462 MHz | MO            | N0N                 | 30.49 mW (ERP)   |                           |
| 5150-5350 MHz | MO            | N0N                 | 10.98 mW (ERP)   |                           |
| 5470-5850 MHz | MO            | N0N                 | 10.98 mW (ERP)   |                           |

This authorization effective December 01, 2018 and  
will expire 3:00 A.M. EST May 02, 2019

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Minneapolis, MN, within 2 km, centered around NL 44-58-38; WL 93-15-56

| Frequency      | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|------------------------------------------|------------------|---------------------------|
| 27.5-28.35 GHz | MO            | 95M6G7D<br>95M3W7D<br>787MG7D<br>789MW7D | 122 mW (ERP)     |                           |

MOBILE: Bloomington, MN, within 2 km, centered around NL 44-48-26; WL 93-22-32

| Frequency      | Station Class | Emission Designator                      | Authorized Power | Frequency Tolerance (+/-) |
|----------------|---------------|------------------------------------------|------------------|---------------------------|
| 2412-2462 MHz  | MO            | N0N                                      | 30.49 mW (ERP)   |                           |
| 5150-5350 MHz  | MO            | N0N                                      | 10.98 mW (ERP)   |                           |
| 5470-5850 MHz  | MO            | N0N                                      | 10.98 mW (ERP)   |                           |
| 27.5-28.35 GHz | MO            | 95M6G7D<br>95M3W7D<br>787MG7D<br>789MW7D | 122 mW (ERP)     |                           |

## Special Conditions:

- (1) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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.

Special Conditions:

- (4) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (7) Licensee must avoid pointing the transmitting antenna main beam gain within 10 degrees of any point on the geostationary orbital arc while transmitting signals at the 27.5-28.35 GHz band.
- (8) Licensee shall ensure that the transmitting fixed station antenna main beam gain tip down when possible and avoid pointing above the horizon to protect satellite stations.