

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

EXPERIMENTAL

(Nature of Service)

WO9XZQ

(Call Sign)

XT MO

(Class of Station)

0141-EX-ST-2020

(File Number)

NAME Sony Mobile Communications 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:

STA will enable continued testing of the radios in a way that is likely to contribute to the development, extension, expansion or the utilization of the radio art.

Station Locations

- (1) MOBILE: Sacramento, CA, within 5 km, centered around NL 38-34-49; WL 121-29-59
- (2) MOBILE: Basking Ridge, NJ, within 5 km, centered around NL 40-43-31; WL 74-32-00
- (3) MOBILE: Houston, TX, within 5 km, centered around NL 29-43-46; WL 95-28-45
- (4) MOBILE: Providence, RI, within 5 km, centered around NL 41-50-14; WL 71-24-30

Frequency Information

MOBILE: Sacramento, CA, within 5 km, centered around NL 38-34-49; WL 121-29-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1770 MHz	MO	20M0W7D 20M0G7D	200 mW (ERP)	
2402-2480 MHz	MO	NON	17.74 mW (Output Power)	

This authorization effective February 17, 2020 and
will expire 3:00 A.M. EST August 15, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Sacramento, CA, within 5 km, centered around NL 38-34-49; WL 121-29-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2412-2462 MHz	MO	N0N	58.48 mW (Output Power)	
27.5-28.35 GHz	MO	100MW7D 100MG7D	500 mW (ERP)	

MOBILE: Basking Ridge, NJ, within 5 km, centered around NL 40-43-31; WL 74-32-00

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1710-1770 MHz	MO	20M0W7D 20M0G7D	200 mW (ERP)	
2402-2480 MHz	MO	N0N	17.74 mW (Output Power)	
2412-2462 MHz	MO	N0N	58.48 mW (Output Power)	
27.5-28.35 GHz	MO	100MW7D 100MG7D	500 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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2402-2480 MHz	MO	N0N	17.74 mW (Output Power)	
2412-2462 MHz	MO	N0N	58.48 mW (Output Power)	
27.5-28.35 GHz	MO	100MW7D 100MG7D	500 mW (ERP)	

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (6) Licensee must avoid pointing the transmitting antenna main beam gain within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 27.5-28.35 GHz frequency band.
- (7) Licensee shall ensure that the transmitting fixed station antenna(s) main beam gain tip down when possible and avoid pointing above the horizon to protect satellite stations.
- (8) Stop Buzzer: Mika Kaneko, mika.kaneko@sony.com, +81-3-6710-5706
- (9) Sony Mobile Communications Inc. must notch out 1770 - 1790 MHz band.
- (10) Sony Mobile Communications Inc. coordinate activities with the VLBA point of contact:
Dan "Mert" Mertely,
nrao-rfi@nrao.edu
phone: (575) 835-7128