

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

EXPERIMENTAL

(Nature of Service)

KS2XBL

(Call Sign)

XD MO

(Class of Station)

0139-EX-CR-2021

(File Number)

NAME Motorola Solutions, Inc.

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(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Chicago, IL, within 161 km, centered around NL 41-52-28; WL 87-38-22
- (2) MOBILE: Carol Stream, IL, within 113 km, centered around NL 41-53-55; WL 88-05-48
- (3) MOBILE: Schaumburg, IL, within 113 km, centered around NL 42-03-54; WL 88-02-54
- (4) MOBILE: Palantine, IL, within 113 km, centered around NL 42-07-23; WL 88-02-08
- (5) MOBILE: Lake, IL, within 113 km, centered around NL 42-21-20; WL 88-19-00

Frequency Information

MOBILE: Chicago, IL, within 161 km, centered around NL 41-52-28; WL 87-38-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.92 MHz	MO		200 W (ERP)	
150.95 MHz	MO		200 W (ERP)	
157.2125 MHz	MO		100 W (ERP)	

This authorization effective June 01, 2021 and
will expire 3:00 A.M. EST June 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Chicago, IL, within 161 km, centered around NL 41-52-28; WL 87-38-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.2875 MHz	MO		100 W (ERP)	
157.3875 MHz	MO		100 W (ERP)	
157.8625 MHz	MO		35 W (ERP)	
157.9125 MHz	MO		35 W (ERP)	
157.925 MHz	MO		35 W (ERP)	
159.27 MHz	MO		120 W (ERP)	
159.42 MHz	MO		600 W (ERP)	
161.8125 MHz	MO		120 W (ERP)	
161.8625 MHz	MO		35 W (ERP)	
161.8875 MHz	MO		120 W (ERP)	

Frequency Information

MOBILE: Chicago, IL, within 161 km, centered around NL 41-52-28; WL 87-38-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.9125 MHz	MO		35 W (ERP)	
161.925 MHz	MO		35 W (ERP)	
451.525 MHz	MO		120 W (ERP)	
451.6 MHz	MO		600 W (ERP)	
451.65 MHz	MO		600 W (ERP)	
451.7 MHz	MO		600 W (ERP)	
456.425 MHz	MO		50 W (ERP)	
456.525 MHz	MO		120 W (ERP)	
456.6 MHz	MO		100 W (ERP)	
456.65 MHz	MO		600 W (ERP)	

Frequency Information

MOBILE: Chicago, IL, within 161 km, centered around NL 41-52-28; WL 87-38-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.7 MHz	MO		100 W (ERP)	
497.25 MHz	MO		50 W (ERP)	

MOBILE: Carol Stream, IL, within 113 km, centered around NL 41-53-55; WL 88-05-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.92 MHz	MO		200 W (ERP)	
150.95 MHz	MO		200 W (ERP)	
157.2125 MHz	MO		100 W (ERP)	
157.2875 MHz	MO		100 W (ERP)	
157.3875 MHz	MO		100 W (ERP)	
157.8625 MHz	MO		35 W (ERP)	
157.9125 MHz	MO		35 W (ERP)	

Frequency Information

MOBILE: Carol Stream, IL, within 113 km, centered around NL 41-53-55; WL 88-05-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.925 MHz	MO		35 W (ERP)	
159.27 MHz	MO		120 W (ERP)	
159.42 MHz	MO		600 W (ERP)	
161.8125 MHz	MO		120 W (ERP)	
161.8625 MHz	MO		35 W (ERP)	
161.8875 MHz	MO		120 W (ERP)	
161.9125 MHz	MO		35 W (ERP)	
161.925 MHz	MO		35 W (ERP)	
451.525 MHz	MO		120 W (ERP)	
451.6 MHz	MO		600 W (ERP)	

Frequency Information

MOBILE: Carol Stream, IL, within 113 km, centered around NL 41-53-55; WL 88-05-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.65 MHz	MO		600 W (ERP)	
451.7 MHz	MO		600 W (ERP)	
456.425 MHz	MO		50 W (ERP)	
456.525 MHz	MO		120 W (ERP)	
456.6 MHz	MO		100 W (ERP)	
456.65 MHz	MO		600 W (ERP)	
456.7 MHz	MO		100 W (ERP)	
497.25 MHz	MO		50 W (ERP)	

MOBILE: Schaumburg, IL, within 113 km, centered around NL 42-03-54; WL 88-02-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.92 MHz	MO		200 W (ERP)	

Frequency Information

MOBILE: Schaumburg, IL, within 113 km, centered around NL 42-03-54; WL 88-02-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.95 MHz	MO		200 W (ERP)	
157.2125 MHz	MO		100 W (ERP)	
157.2875 MHz	MO		100 W (ERP)	
157.3875 MHz	MO		100 W (ERP)	
157.8625 MHz	MO		35 W (ERP)	
157.9125 MHz	MO		35 W (ERP)	
157.925 MHz	MO		35 W (ERP)	
159.27 MHz	MO		120 W (ERP)	
159.42 MHz	MO		600 W (ERP)	
161.8125 MHz	MO		120 W (ERP)	

Frequency Information

MOBILE: Schaumburg, IL, within 113 km, centered around NL 42-03-54; WL 88-02-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.8625 MHz	MO		35 W (ERP)	
161.8875 MHz	MO		120 W (ERP)	
161.9125 MHz	MO		35 W (ERP)	
161.925 MHz	MO		35 W (ERP)	
451.525 MHz	MO		120 W (ERP)	
451.6 MHz	MO		600 W (ERP)	
451.65 MHz	MO		600 W (ERP)	
451.7 MHz	MO		600 W (ERP)	
456.425 MHz	MO		50 W (ERP)	
456.525 MHz	MO		120 W (ERP)	

Frequency Information

MOBILE: Schaumburg, IL, within 113 km, centered around NL 42-03-54; WL 88-02-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.6 MHz	MO		100 W (ERP)	
456.65 MHz	MO		600 W (ERP)	
456.7 MHz	MO		100 W (ERP)	
497.25 MHz	MO		50 W (ERP)	

MOBILE: Palantine, IL, within 113 km, centered around NL 42-07-23; WL 88-02-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.92 MHz	MO		200 W (ERP)	
150.95 MHz	MO		200 W (ERP)	
157.2125 MHz	MO		100 W (ERP)	
157.2875 MHz	MO		100 W (ERP)	
157.3875 MHz	MO		100 W (ERP)	

Frequency Information

MOBILE: Palantine, IL, within 113 km, centered around NL 42-07-23; WL 88-02-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
157.8625 MHz	MO		35 W (ERP)	
157.9125 MHz	MO		35 W (ERP)	
157.925 MHz	MO		35 W (ERP)	
159.27 MHz	MO		120 W (ERP)	
159.42 MHz	MO		600 W (ERP)	
161.8125 MHz	MO		120 W (ERP)	
161.8625 MHz	MO		35 W (ERP)	
161.8875 MHz	MO		120 W (ERP)	
161.9125 MHz	MO		35 W (ERP)	
161.925 MHz	MO		35 W (ERP)	

Frequency Information

MOBILE: Palantine, IL, within 113 km, centered around NL 42-07-23; WL 88-02-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
451.525 MHz	MO		120 W (ERP)	
451.6 MHz	MO		600 W (ERP)	
451.65 MHz	MO		600 W (ERP)	
451.7 MHz	MO		600 W (ERP)	
456.425 MHz	MO		50 W (ERP)	
456.525 MHz	MO		120 W (ERP)	
456.6 MHz	MO		100 W (ERP)	
456.65 MHz	MO		600 W (ERP)	
456.7 MHz	MO		100 W (ERP)	
497.25 MHz	MO		50 W (ERP)	

Frequency Information

MOBILE: Lake, IL, within 113 km, centered around NL 42-21-20; WL 88-19-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.92 MHz	MO		200 W (ERP)	
150.95 MHz	MO		200 W (ERP)	
157.2125 MHz	MO		100 W (ERP)	
157.2875 MHz	MO		100 W (ERP)	
157.3875 MHz	MO		100 W (ERP)	
157.8625 MHz	MO		35 W (ERP)	
157.9125 MHz	MO		35 W (ERP)	
157.925 MHz	MO		35 W (ERP)	
159.27 MHz	MO		120 W (ERP)	
159.42 MHz	MO		600 W (ERP)	

Frequency Information

MOBILE: Lake, IL, within 113 km, centered around NL 42-21-20; WL 88-19-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
161.8125 MHz	MO		120 W (ERP)	
161.8625 MHz	MO		35 W (ERP)	
161.8875 MHz	MO		120 W (ERP)	
161.9125 MHz	MO		35 W (ERP)	
161.925 MHz	MO		35 W (ERP)	
451.525 MHz	MO		120 W (ERP)	
451.6 MHz	MO		600 W (ERP)	
451.65 MHz	MO		600 W (ERP)	
451.7 MHz	MO		600 W (ERP)	
456.425 MHz	MO		50 W (ERP)	

Frequency Information

MOBILE: Lake, IL, within 113 km, centered around NL 42-21-20; WL 88-19-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.525 MHz	MO		120 W (ERP)	
456.6 MHz	MO		100 W (ERP)	
456.65 MHz	MO		600 W (ERP)	
456.7 MHz	MO		100 W (ERP)	
497.25 MHz	MO		50 W (ERP)	

Special Conditions:

- (1) Licensee is authorized to use various emissions and bandwidths during the experiment.
- (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 station identification requirements of Section 5.115 of the Commission's Rules are waived.