

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WK2XFZ

(Call Sign)

0347-EX-CN-2019

(File Number)

NAME Microsoft Corporation

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 & d) of the Commission's Rules

Station Locations

- (1) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-41
- (2) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-29; WL 122-07-31
- (3) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-25; WL 122-07-27
- (4) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-32; WL 122-07-35
- (5) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-15; WL 122-07-57
- (6) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-34
- (7) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-39
- (8) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-07-44
- (9) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-50
- (10) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-39
- (11) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-37
- (12) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-39; WL 122-07-43
- (13) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-16; WL 122-07-47
- (14) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-10; WL 122-07-46
- (15) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-39; WL 122-07-30
- (16) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-34; WL 122-07-16
- (17) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-07-19
- (18) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-43; WL 122-07-50
- (19) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-49
- (20) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-44; WL 122-07-38
- (21) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-11; WL 122-07-40
- (22) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-14; WL 122-08-08
- (23) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-29; WL 122-07-50
- (24) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-07-50
- (25) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-32; WL 122-07-32

This authorization effective August 29, 2019 and
will expire 3:00 A.M. EST September 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (26) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-58
- (27) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-18; WL 122-07-31
- (28) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-42; WL 122-07-18
- (29) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-07-30
- (30) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-28; WL 122-07-25
- (31) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-42; WL 122-07-32
- (32) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-27
- (33) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-07-58
- (34) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-08-02
- (35) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-27; WL 122-07-58
- (36) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-49; WL 122-07-57
- (37) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-57; WL 122-07-58
- (38) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-00; WL 122-08-02
- (39) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-05; WL 122-07-59
- (40) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-11; WL 122-07-57
- (41) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-06; WL 122-08-07

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2682.5 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-29; WL 122-07-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-29; WL 122-07-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-25; WL 122-07-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-32; WL 122-07-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-15; WL 122-07-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-15; WL 122-07-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-07-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-07-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-39; WL 122-07-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-16; WL 122-07-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-10; WL 122-07-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-10; WL 122-07-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-39; WL 122-07-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-39; WL 122-07-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-34; WL 122-07-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-34; WL 122-07-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-07-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-07-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-43; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-43; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-38; WL 122-07-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-44; WL 122-07-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-44; WL 122-07-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-11; WL 122-07-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-14; WL 122-08-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-29; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-29; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-32; WL 122-07-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-32; WL 122-07-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-18; WL 122-07-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-18; WL 122-07-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-42; WL 122-07-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-42; WL 122-07-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-07-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-07-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-28; WL 122-07-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-42; WL 122-07-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-07-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-07-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-08-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-08-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-27; WL 122-07-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-27; WL 122-07-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-49; WL 122-07-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-49; WL 122-07-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-57; WL 122-07-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-57; WL 122-07-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-00; WL 122-08-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-00; WL 122-08-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-05; WL 122-07-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-11; WL 122-07-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-06; WL 122-08-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
809-821 MHz	MO	10M0F9W	200 mW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-06; WL 122-08-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
850-862 MHz	MO	10M0F9W	200 mW (ERP)	
895-915 MHz	MO	10M0F9W	200 mW (ERP)	
925-940 MHz	MO	10M0F9W	200 mW (ERP)	
940-960 MHz	MO	10M0F9W	200 mW (ERP)	
2555-2570 MHz	MO	15M0F9W	200 mW (ERP)	
2675-2690 MHz	MO	15M0F9W	200 mW (ERP)	
3300-4200 MHz	MO	20M0F9W	200 mW (ERP)	

Special Conditions:

- (1) 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.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (4) Prior to commencing any operations in the frequencies below, the licensee must obtain consent from the following within 50 miles of the contours of the testing area:
SMR licensees (809-824 MHz/854-869 MHz)
B/ILT licensees (809-824 MHz/854-869 MHz)
Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
SMR licensees (896-901 MHz/935-940 MHz)
B/ILT licensees (896-901 MHz/935-940 MHz)
Narrowband PCS licensees (901-902/930-931/940-941 MHz)
Location & Monitoring Service licensees (902-928 MHz)
Paging Service licensees in 929 MHz and 931 MHz
- (5) Obtain consents from the Educational Broadband Service licensees prior to operation in 2555-2570 MHz and 2675-2690 MHz bands.
- (6) Maintain operation separation from the grandfathered earth stations as defined in Part 90, Subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz band.
- (7) Consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic areas prior to operation in this band.
- (8) Coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in 940-960 MHz band.
- (9) Coordinate with the affected Fixed Microwave Service licensees prior to operation in 925-940 MHz, 940-960 MHz and 3700-4200 MHz bands.
- (10) Licensee shall be aware that FSS earth stations are licensed above 3700 MHz and if any interference occurs, the experimental licensee of this authorization will be subject to immediate shut down.
- (11) The designated point-of-contact to terminate transmissions if interference occurs is wdgcell@microsoft.com
- (12) All of the experimental devices will be under control of Microsoft Corp. and they will be retrieved by Microsoft Corp. from the participants upon completion of the experiment.
- (13) Under this authorization, the total number of experimental devices shall not exceed 260.
- (14) This authorization is issued for the express purpose of conducting experimental operations described in the related application. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (15) Microsoft will be responsible for ensuring that the devices are used in authorized locations and in a manner authorized.