

# **QUALCOMM 1915-1920 MHz Experiment Proposal**

## **1 Introduction**

Qualcomm Incorporated (NASDAQ:QCOM - News) is the world leader in 3G and next-generation mobile technologies. For 25 years, Qualcomm ideas and inventions have driven the evolution of wireless communications, connecting people more closely to information, entertainment and each other. Today, Qualcomm technologies are powering the convergence of mobile communications and consumer electronics, making wireless devices and services more personal, affordable and accessible to people everywhere. For more information, please visit [www.qualcomm.com](http://www.qualcomm.com).

QUALCOMM will be completing limited testing of an experimental TDD technology in San Diego, CA and Bridgewater, NJ. Initial testing has been completed using STA Call sign WF2XRV granted on February 25, 2011. Testing is planned to continue for one year and therefore this experimental license is required to continue testing.

A single fixed transmitter with 100W peak power will be installed and operated at each geographic location. Mobile units will operate within a 5 mile radius of the fixed sites. Both the fixed and mobile transmitters utilize the same frequency range

## **2 Transmitter Information**

The maximum output power for mobile units and the fixed site is listed in Table 1. Table 2 lists the fixed site location and operational radius where mobiles will be operated. The actual fixed site ERP deployed may be lower than the power listed after the network design has been finalized.

**Table 1 Transmitter Information**

<b>Type</b>	<b>Frequency (MHz)</b>	<b>Power (dBm EIRP)</b>	<b>Power (W EIRP)</b>	<b>Power (W ERP)</b>	<b>Bandwidth (MHz)</b>	<b>Emissions Designator:</b>
Fixed	1915-1920	50	100	60.7	5	5M00W7W
Mobile	1915-1920	24	0.251	0.152	5	5M00W7W

**Table 2 Transmitter Site Information**

Type	Address	County	Lat	Long	Radius (miles)	Radius (km)	Antenna Type
Fixed	500 Somerset Corporate Blvd Bridgewater, NJ 08807	Somerset	40-35-6N	74 37 26W	5	8	Omni
Fixed	100 Somerset Corporate Blvd Bridgewater, NJ 08807	Somerset	40-35-13N	74-37-34W	5	8	Omni
Fixed	5775 Morehouse Dr. San Diego, CA 92121	San Diego	32-53-45N	117-11-46W	5	8	Omni
Fixed	6455 Lusk Blvd San Diego, CA 92121	San Diego	32-54-9N	117-12-3W	5	8	Omni

### 3 Frequency Coordination

A search of the FCC online databases has shown no active licenses, experimental licenses, or STAs issue for the requested frequency range within the identified experimental area.