

QUALCOMM DSRC (5850-5925 MHz) Experiment Proposal

1 Introduction and Test Activity Overview

Qualcomm's technologies powered the smartphone revolution and connected billions of people. We pioneered 3G and 4G – and now we are leading the way to 5G and a new era of intelligent, connected devices. Our products are revolutionizing industries, including automotive, computing, IoT, healthcare and data center, and are allowing millions of devices to connect with each other in ways never before imagined. Qualcomm Incorporated includes our licensing business, QTL, and the vast majority of our patent portfolio. Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, all of our engineering, research and development functions, and all of our products and services businesses, including, our QCT semiconductor business.

Qualcomm is requesting an experimental license in the range of 5850-5925 MHz to develop and test 802.11P DSRC prototypes in addition to evaluating potential new technologies with the goal of studying the applications and services for the Vehicle to Vehicle and Vehicle to everything market.

Low power testing will predominantly operate at Qualcomm's engineering facilities in San Diego, CA and Bridgewater, NJ but testing and demonstrations can also occur anywhere in the United States.

The focus of testing is with vehicle mounted systems but temporary fixed sites will also occasionally be utilized.

Transmitters will utilize either 1 or 2 low power RF channels with either a 10 MHz or 20 MHz transmission bandwidth.

2 Transmitter Information

Qualcomm is requesting a nationwide license to experiment with commercial and prototype DSRC devices and new technology using a 10 or 20 MHz transmission bandwidth

Table 1 Transmitter Information

Type	Frequency (MHz)	Power (dBm EIRP)	Power (W EIRP)	Power (W ERP)	Bandwidth (MHz)	Emissions Designator:	Location:
Mobile	5850-5925	23	0.2	0.122	10 and 20	10M00W7W 20M00W7W	Nationwide
Fixed	5850-5925	23	0.2	0.122	10 and 20	10M00W7W 20M00W7W	Nationwide