11 October-2016

Introduction

Intel is a world leader in computing innovation. The company designs and builds the essential technologies that serve as the foundation for the world's computing devices. Intel also offers a portfolio of wireless communications solutions to connect a broad range of devices. Hardware and software products by Intel and its subsidiaries power the majority of the world's data centers, connect hundreds of millions of cellular handsets and help secure and protect computers, mobile devices and corporate and government IT systems. Intel technologies are also inside intelligent systems, such as automobiles, automated factories and medical devices.

Proposed Demonstration:

An Experimental License is requested for a research and testing of wireless devices. Over the air testing is required to validate the designs, characterize propagation impact, and verify overall performances. The proposed experiment will be located within the radius of the geographical area listed below.

Location:

Radius of 8 kilometers based on a center point:
33°16' 36"N N
111°54'27"W
357 meters AMSL

Transmitter & Antenna Parameters:

The proposed experiment of Intel's advanced technologies will consist of test of equipment at 3.3 - 4.2 GHz and 27.0 - 28.5 GHz.

Site Details				Antenna				Transmitter Emission		
Location	Station Type	# of Units	AGL Max (m)	Type	3dB Beam Width	H & V-Gain (dBi)	ERP (W)	Frequency (GHz)	Bandwidth (MHz)	Emission Designator
Within an 8 kilometer radius of the center coordinates 33°16' 36"N N 111°54'27"W	FX	2	16	Sector	90	16	193	3.3-4.2 GHz	100 200	100MW7W 200MW7W
Within an 8 kilometer radius of the center coordinates 33°16' 36"N N 111°54'27"W	MO	4	3	Omni	n/a	3	.123	3.3-4.2 GHz	100 200	100MW7W 200MW7W

Transmitter & Antenna Parameters cont.

Site Details				Antenna				Transmitter Emission		
Location	Station Type	# of Units	AGL Max (m)	Type	3dB Beam Width	H & V-Gain with Beamforming (dBi)	ERP (W)	Frequency (GHz)	Bandwidth (MHz)	Emission Designator
Within an 8 kilometer radius of the center coordinates 33°16' 36"N N 111°54'27"W	FX	4	16	Omni	n/a	24	609.5	27.0 – 28.5 GHz	100 200	100MW7W 200MW7W
Within an 8 kilometer radius of the center coordinates 33°16' 36"N N 111°54'27"W	MO	10	3	Omni	n/a	9	1.9	27.0 – 28.5 GHz	100 200	100MW7W 200MW7W
Within an 8 kilometer radius of the center coordinates 33°16' 36"N N 111°54'27"W	MO	10	3	Omni	n/a	12	6.1	27.0 – 28.5 GHz	100 200	100MW7W 200MW7W

Geographical Area