

From: James Morrison

To: FCC Experimental Licensing

Subject: FCC File No. 0640-EX-ST-2012

Details of Live to Media Broadcast Test

A request for an experimental license for transmitting during a sporting event on a vacant channel in the 88-107.5 MHz spectrum was made by Live2media on 8/12/2012. This document provides details on why we feel that our 5 hour test will not interfere with broadcasting stations during the test. If for any reason any interference is experienced during our test, we will immediately stop transmitting.

We are in the process of manufacturing receivers for the abandoned TV spectrum. We are using the commercial band receivers we have today to help model our audio networking system.

We measured active channels in the area, with a car stereo in a 2005 Yukon truck, and an Anritsu Spectrum Analyzer. The car stereo was used to see what channels could be received in a vehicle, which has better reception than that of a hand held radio. A scanned copy of channels that were audible is presented below.

Buck Shaw Stadium FM Scan

Mag Mount Ant.

87.7 K-LOVE
88.1
88.5 KQED
89.3 FAINT sig
89.5
89.7 FAINT sig
90.1
90.3
90.5
91.1 JAZZ 91
91.5
91.7 KALW
92.3 KSVO
92.7
93.3
93.7
94.1 KPFA
94.5 KDAY
94.9 WILD 94.9
95.3 (strong country station)
95.7 The GAME
96.1 KSQL
96.5
97.3
97.7 KFOG
98.1
98.5 K-FOX
98.9
99.1
99.3
99.7
100.3
100.7
100.9
101.3 STAR 101
102.1 K-FOX
102.9
103.3
103.7
104.5 KFOG

104.9 KDFC
105.7
106.1 KMEL
106.5
106.9

8/13/2012
Parking Lot Test
with Car Stereo

he spectrum analyzer was used to measure actual levels of the broadcast stations in the area. Plots are included below. Channels were selected on the any broadcast signal being very low, along with no strong adjacent signals. Our receivers for the test are have somewhat poor adjacent channel rejection, so choosing channels is critical for our audio performance.

The following channels (MHz) were chosen for having no channels for reception on the car stereo, being very weak on the spectrum analyzer, and having no strong adjacent channels present:

89.1

89.9

90.7

91.3

Our transmit antennas will be on the housing above the Soccer field, which is 35 feet above ground level. We will be using 1 watt transmitters that are type accepted, feeding into individual half wave Omni antennas. We are confident of our signal not causing interference, and will only be transmitting during the day of the soccer match.

I hope this satisfies any concerns you have with our application.

Thank you,

James Morrison

925-260-9260

Photos of transmit antenna locations







