



Cambium Networks

May, 2015

FCCID: Z8H89FT0015

S.D.R. Request for Class III permissive change

Gentlemen,

In accordance with permissive change rules in CFR47 Section 2.1043 (b) (3), Cambium Networks is requesting a Class III permissive change to allow operation in the UNII band between 5250MHz and 5350MHz for 10MHz and 40MHz Channels. We are also requesting operation of 40MHz and 10MHz channels from 5470MHz and 5600MHz and 5650MHz to 5725MHz for our Updated ePMP system under CFR Title 47 Part15 subpart E section 15.407.

The ePMP system is a fixed outdoor software defined radio configurable for channel bandwidth, R.F. channel center frequency, and modulation. We attest that no deliberate transmissions will occur between 5600MHz and 5650MHz; our official software version 2.4 does not allow these channels to be set by the professional installer nor end user as we have tested under the "old rules". Version 2.4.1 was only to enable 5725MHz to 5850MHz in the DTS band. Software Version 2.4 Official will have these Frequencies available to professional installers. To address uniform spreading the Channels set by the professional installer alternate in a primary/secondary/ tertiary mode.

The Manual instructs how to prescan the band with spectrum analyzer to look for any interference.

Note: the changes made to Software, Distribution and Security (SDS) architecture. Versions 2.4.1 and 2.4.2 are for enabling authorized channels.

In support of this request, test reports are submitted in this application to demonstrate compliance to the rules: We have demonstrated compliance at nationally recognized test labs with a 17dBi array antenna, a 24dBi dish, and a 2.15dBi dipole. In addition we have tested all modes internally and externally for DFS compliance to the "old Rules" FCC06-96

Further we attest that per KDB594280, production units for U.S. customers and installations do not permit region or country selection.

KdB list: 905462D01, 789033D01, 848637 "old", 594340 "old", 443999D01 , 905462D05

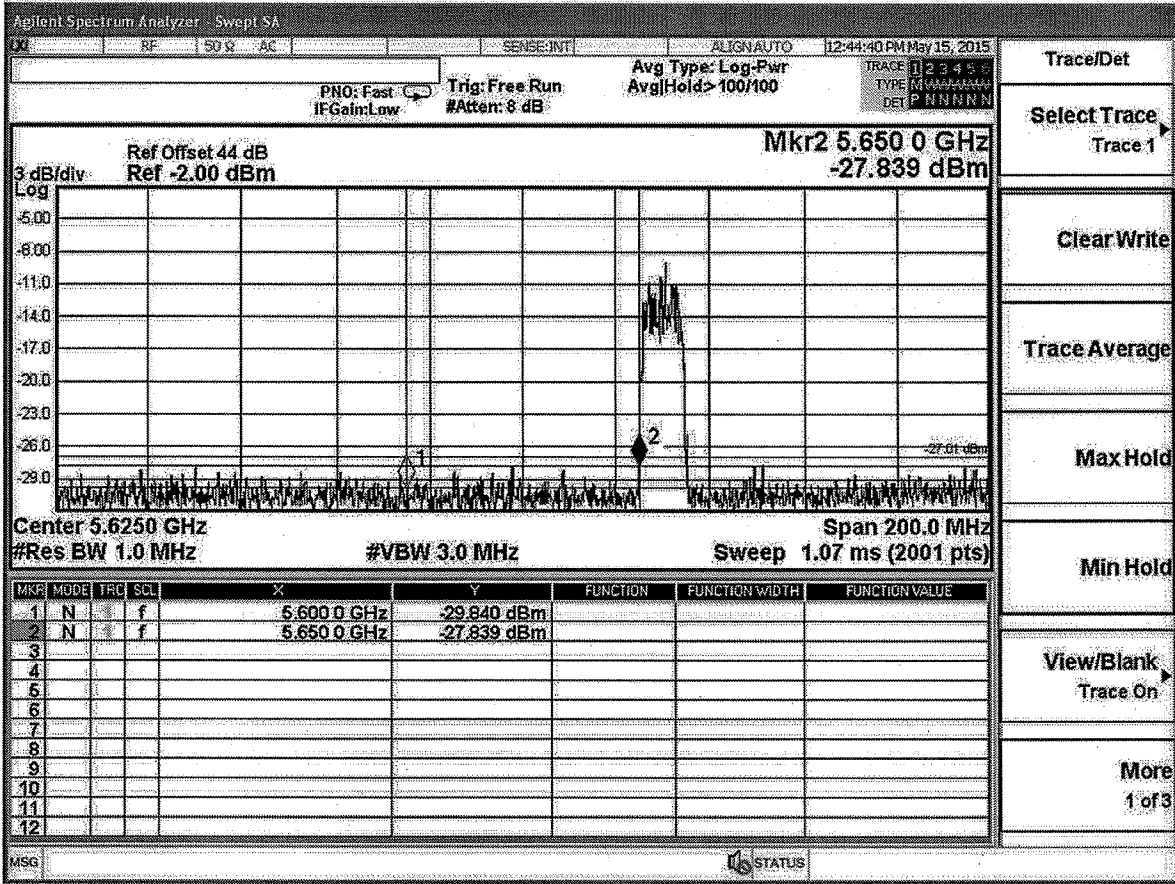
Sincerely,

Steven M. Payne
R.F. Principal Staff Engineer
Cambium Networks

10MHz

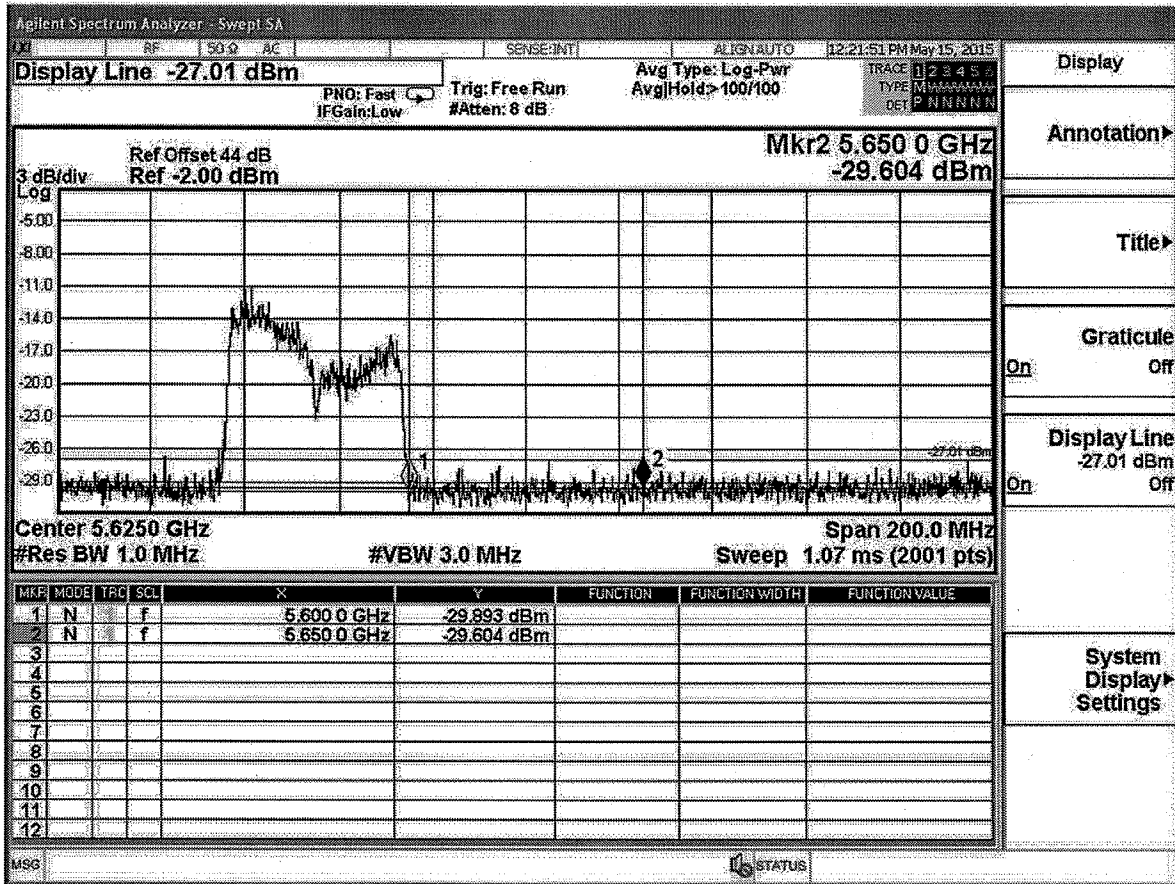


10MHz



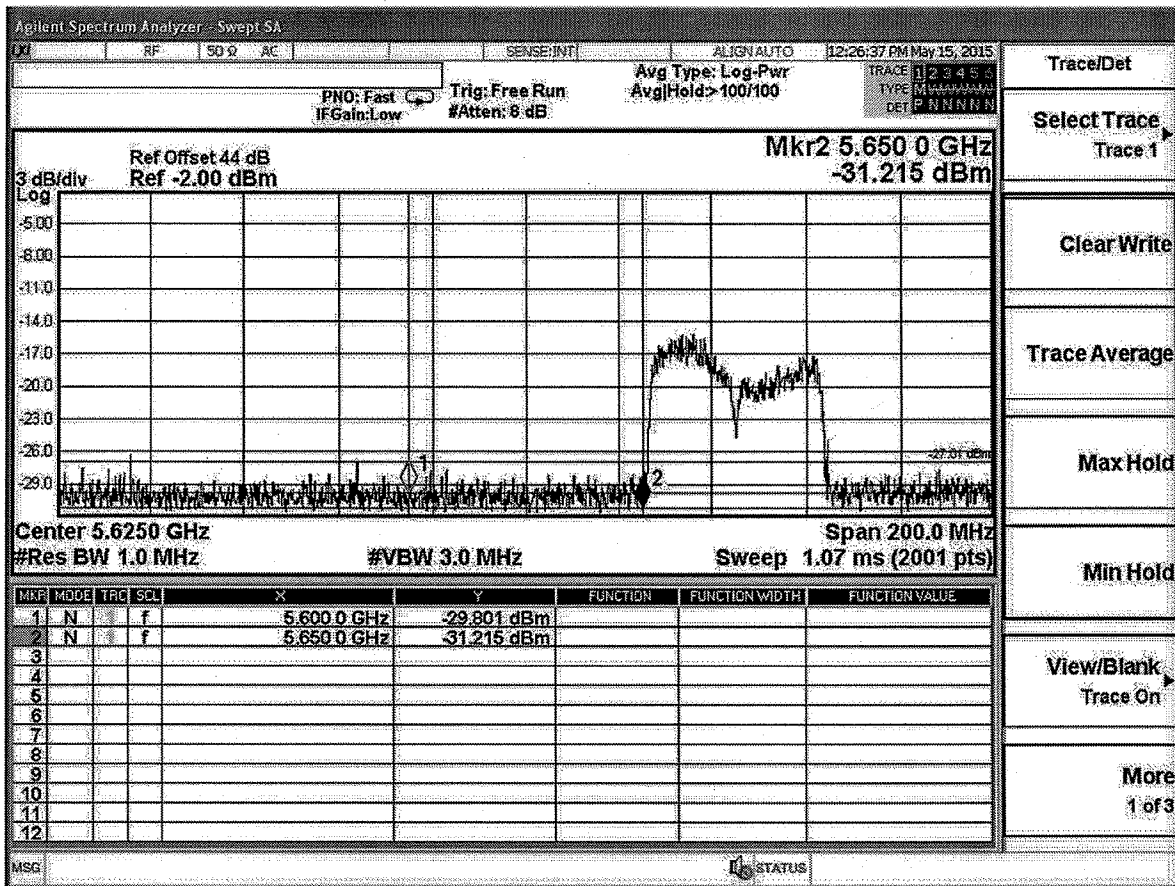
Plot 2

40MHz



Plot 3

40MHz



Plot4

