

22 December, 1999

Federal Communications Commission

Dear Sir/Mama

This letter is in response to your concern with the radiated emissions of the Airplay Wireless Controller (our project number 323A05). The specific frequencies of concern were 120 MHz (on plot 2), 124 MHz (on plot 8), 132 MHz (on plot 2 and 8), and 134 MHz (on plot 8). All of these frequencies are relatively common at our OATS. They all fall in the Aeronautical Mobil "Routed" band of 117.975 – 137 MHz. The intrinsic characteristics of mobile radio causes the emissions to be transient. In this case the emissions were present at some point in the 4 minutes that it takes to perform a emissions scan (turning the EUT 360 deg. twice and lifting the measuring antenna from 1m to 4 m), but not during the ½ minute that it takes to perform a ambient scan (lifting the measuring antenna from 1 m to 4 m).

When the proceeding event occurs, emissions are investigated further. The technologist performing the test narrows the frequency span of the spectrum analyzer around the emissions frequency. It is then determine whether the emission is coming from the EUT or from another source. If the emission is present when the EUT is not powered then the emission is labeled as a "Ambient" emission. If the emission is no longer present with the EUT powered or unpowered, the EUT is powered on, and the scan is performed again with the narrow frequency span. If the emission does not reappear, the emission is labeled as a "Ambient" emission. If the emission reappears, the scan is stopped, and the EUT is powered off. If the emission does not leave shortly after the EUT is powered off, then the emission is labeled as a "Ambient" emission.

This procedure was used for all of the previously mentioned frequencies, and all the other frequencies labeled as ambient in the report. I hope that this description of our procedures is helpful in resolving your concern. If you have any further concerns, please feel free to contact me.

Sincerely

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