

## **Marianne Bosley**

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**From:** Marianne Bosley  
**Sent:** Thursday, January 02, 2003 10:34 AM  
**To:** 'alice\_wong@hkstc.com'  
**Subject:** Request for Technical Info for FCC ID:QQ7EGUARDEAS01

Hi Alice,

Below are the technical issues that must be addressed before grant:

RT questions:

Was the frequency sweep stopped while radiated measurements were made?

What is the frequency range of the sweep?

Does the EUT employ an analog sweep (continuous, sliding over all frequencies in the band) or a digital sweep (discrete frequencies hopped to very rapidly)? If it is a digital sweep (as most modern systems are), then none of the discrete frequencies on which it lands may be in a restricted band, as defined in Section 15.205. What discrete frequencies are used? Please address.

Was a loop antenna used for radiated measurements? If not, please remeasure with a loop antenna- a rod antenna may not be used. If so, was it both rotated on its vertical axis AND placed in the horizontal plane as well, per ANSI C63.4 Section 8.2.1?

The "correction factors" listed in the radiated emissions data table seem quite low for the antenna, compared to those used for many loop antennas. Please address.

When calculating the duty cycle correction factor, please note the following: a duty cycle correction factor is NOT applied to an analog system. For digital systems, the averaging factor described in Section 15.35 may be applied, based upon how much time the signal actually spends on each discrete channel during a 100 ms interval. If the EUT goes through its hopset and returns to the same frequency during the 100 ms interval, then the total occupancy time on that frequency during the 100 ms interval should be used in calculating the duty cycle correction. Note that if the hopping frequency channels are so close that more than one of them falls within the 9 kHz bandwidth required for measurements, then the duty cycle correction must include the total time spent on all of the channels within that 9 kHz band during the 100 ms measurement interval. Please address.

When these are addressed the grant will be issued.

Marianne Bosley