Helen Zhao

To: Kwon, James (Gunpo)

Subject: RE: YUSUNG C&C Co. Ltd., FCC ID: QLKUNC-2400S, Assessment NO.: AN06T5883, Notice#1

From: Kwon, James
Sent: Thursday, June 22, 2006 8:17 AM
To: Helen Zhao
Subject: RE: YUSUNG C&C Co. Ltd., FCC ID: QLKUNC-2400S, Assessment NO.: AN06T5883, Notice#1

Hi Helen,

Pls find my reply at below, and I uploaded all updated material.

Anyway, if you have any further questions, please feel free to contact me.

Thanks and have a nice day.
James Kwon

-----Original Message-----
Sent: Wednesday, June 21, 2006 5:43 PM
Subject: YUSUNG C&C Co. Ltd., FCC ID: QLKUNC-2400S, Assessment NO.:
AN06T5883, Notice#1

Question #1: This is a frequency hopping device, does not use Bluetooth technology, based upon FCC15.247(a)(1), you need to address the following requirements:
[James] Checked. Adopted Bluetooth technology. Described it to operating description.

a) Pseudorandom Frequency Hopping Sequence
Describe how the hopping sequence is generated. Provide an example of the hopping sequence channels, in order to demonstrate that the sequence meets the requirement specified in the definition of a frequency hopping spread spectrum system, found in Section 2.1.

b) Equal Hopping Frequency Use
Describe how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event).

c) System Receiver Input Bandwidth
Describe how the associated receiver(s) complies with the requirement that its input bandwidth (either RF or IF) matches the bandwidth of the transmitted signal.

d) System Receiver Hopping Capability
Describe how the associated receiver(s) has the ability to shift frequencies in synchronization with the transmitted signals.

Please update Theory of Operation to add necessary information.

Question #2: MPE calculation is included in the filing, but the user manual does not contain RF exposure statement, such as "To meet RF exposure requirments in FCC Rule section 1.1307, antennas must be installed so that a distance of at least 20 cm is maintained between antenna and all persons during normal operation, and must not be co-located or operating in conjunction with any other antenna or transmitter." Please update the user manual.
[James] We updated user manual.

Question #3: The user manual shows there are two kinds of Pack and Headset, one is for the instrctor, one is for the student, it seems the pack used by the instructor is not the same as one used by the student, might have more functions. Please provide difference between two packs, in terms of functions, and modulation, used frequency channels. Please also specify with which pack you did test.
[James] No. They(instructor and student) use same UNC-2400S. They are distinguished by ID. I described it in operating description.

Question #4: It's clear how the master device works with the slave device (pack), but it's not clear how it works between two

slave devices. What is the modulation used for communication between two slave devices? Please provide more concrete theory of operation to explain this.
[James] No. Two slave doesn't work each other. Master controls it. I described it in operating description.

Question #5: Based upon "FCC Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" (Public Notice DA 00-705),

a) Number of Hopping Frequencies should be tested with RBW ³ 1% of the span; you used RBW = 100KHz when span is 84.5MHz. Please use correct setting in future. [James] Thanks.
b) Band-edge Compliance of RF Conducted Emissions should be tested with RBW ³ 1% of the span; you used RBW = 100KHz when span is 25MHz. Please use correct setting in future. [James] Thanks.
c) Time of Occupancy (Dwell Time) should be tested with RBW = 1 MHz; - you used RBW = 8MHz. Please repeat this test item with correct setting.
[James] We repeated test, and updated test report.

Best Regards,
Helen Zhao

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.