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**Subject:** FW: FW: WJ Communications, Inc., FCC ID: NTTWJSR22XX, Assessment NO.: AN05T5132, Notice#1



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Hi Helen,

Answers follow questions

best regards

Tom

-----Original Message-----

From: Compliance Certification Services [mailto:helen.zhao@ccsemc.com]

Sent: Friday, September 09, 2005 5:49 PM

Subject: WJ Communications, Inc., FCC ID: NTTWJSR22XX, Assessment NO.: AN05T5132, Notice#1

Question #1: The antenna spec indicates the highest gain is 6.97dBi, but the test report indicates the device uses 6dBi gain antenna. Please clarify which one is correct. You may need to recalculate MPE with the correct antenna gain, if necessary, please update user manual for safety separation distance.

ANS 1 The EUT uses a cable with a minimum attenuation of 1 dB, so the effective antenna gain at the transmitter port is 5.97 dBi, so EIRP is less than 36 dBm and using 6 dBi to calculate MPE is correct. See page 6 of updated test report, attached.

Question #2: Test report shows some past due test equipment was used during the test. Please explain.

ANS 2 There was a copy and paste error in the original report, the revised report has the correct cal dates

Question #3: Based upon FCC Public Notice DA 00-705, for test items Carrier Frequency Separation and Number of hopping Frequencies, RBW must be equal or greater than 1% of the span, the plots in the report do not show this requirement is ever met. Please explain.

ANS 3 The EUT modulation was such that a narrower bandwidth was needed to resolve the peaks. Since the purpose of the measurement is to distinguish peaks and distance between them and not bandwidth or power, bandwidth is not critical, and as such it is hoped the measurements can stand as they are.

Question #4: Based upon FCC 15.247(a)(1)(i) "if the 20 dB bandwidth of the hopping channel is 250 kHz or greater... the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period." The test report shows with Class I mode, the 20dB bandwidth measurement is greater than 250MHz, but the report still uses 20 second period to calculate Time of Occupancy.

Please update the test report.

ANS 4 The duration time has been calculated for 10 sec duration, see page 46 of the attached revised report

Question #5: The test report Class I mode,  $1.0\text{mW}/\text{cm}^2$  instead of  $0.6\text{mW}/\text{cm}^2$  was used as Power density to calculate MPE. Please update the test report.

ANS 5 All MPE calculations were made using an exposure value of  $0.6\text{mW}/\text{cm}^2$ , the previous limit references have all been corrected.

Best Regards,  
Helen Zhao

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>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.