

## Helen Zhao

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**Subject:** FW: Tropos Networks, Inc., FCC ID: P9J-BFD, Assessment NO.: AN06T5932, Notice#1



FCC Modular  
Request Form tropo.



5320 Guide  
06-07-31.pdf



Internal  
Photos.revised.pdf



External  
Photos.revised.pdf



AntennaSpecsPatte  
rns.pdf



AntennaConfigs.pd  
f



06U10287-1C FCC  
DTS Report\_Fi...

From: Danielle Zhan  
Sent: Tuesday, August 01, 2006 5:50 PM  
To: Helen Zhao  
Subject: RE: Tropos Networks, Inc., FCC ID: P9J-BFD, Assessment NO.: AN06T5932, Notice#1

Hi Helen,

Please find answers to the seven questions below.

Thanks,

Danielle

Question #1: Please clarify what is the 802.11a/b/g module that is seeking LMA in the filing. External photos as well as other technical documents show the mesh router is the "module" referred in the filing. There is only one manual - Installation manual of 5320 provided in the filing. From exploded view on page 14 of 98, it seems 5320 router is merely the "module" plus sun-shield. If this is the case, and if sun-shield is just a mechanical structure, the "module" may not be qualified to get Limited modular approval. You may need to pursue system approval.

[Answer] This application is for LMA for the RF radio card. Modular Approval cover letter and Manual have been updated as attached. Internal and External photos are revised too as attached.

Question #2: If this filing is for system approval, please update the following documents:

Test Report  
FCC ID label format  
Block Diagram  
Theory of Operation

[Answer] See answer to Question 1.

Question #3: The user manual (page 70 of 98) lists Measured Cond. Avg. Power (dBm) and EIRP (dBm) which is quite different from the test report. For example, the EIRP is the report is closed to 36dBm, but the manual shows  $\leq 20$  dBm for 11b/g and  $\leq 29$ dBm for 11a. Please update the user manual.

[Answer] See updated Manual as attached.

Question #4: The user manual (Section 5 Antenna Information & Section 6 Installation Accessories) does not include three antennas used in 5.8GHz band. If you choose to provide antenna pattern and installation accessories in the manual, please include complete information.

[Answer] Antenna Specs and Antenna Configuration are attached.

Question #5: The test report (page 28 & 68) indicates "The max. antenna

gain is 7.4/9.1 dBi for other than fixed, point-to-point operations, therefore the limit is 28.6/26.9dBm", which is not the case. Please note 7.4/9.1 dBi is the lowest antenna gain in 2.4/5.8GHz band. It's true in order to test with highest power output, you need to use the lowest antenna gain. Please modify the statement.

[Answer] See updated report as attached.

Question #6: Test report - Page 146: The average power listed on the plot does not agree with the summary on page 9. Please confirm 19dBi antenna is used for point-to-point operation or point-to-multiplepoint operation. For your information, page 8 gives misleading information: Because the maximum output power is limited by EIRP(36dBm)... which implies P2MP operation only.

[Answer] See updated report as attached.

Question #7: The test report indicates that 17dBi antenna in 5.8 GHz band can be used for P2P operation and/or P2MP operation. 19dBi antenna in 5.8 GHz band is used for P2P operation only. If this is the case, please update the user manual to clearly indicate operation mode that each antenna supports. If a minimum cable loss is required, please indicate so as well.

[Answer] See updated report as attached.

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.