



American Telecommunications Certification Body Inc.

6731 Whittier Ave, McLean, VA 22101

June 3, 2005

RE: DTC Communications

FCC ID: H25PDTX5000

I have a few comments on this Application. Depending on your responses, kindly understand there may be additional comments.

- 1.) Please add frequency paths and oscillators as appropriate to the Block Diagram.
- 2.) I recognize that there are no user serviceable parts to allow for any type of field servicing. However, the Commission does require a description of (at minimum) how the device is tuned up during manufacturing to assure both frequency range and RF power settings are set. Please consider revising your Tune Up procedure as appropriate.
- 3.) To be perfectly correct, the Label should include a colon after "FCC ID:" . Please consider revising.
- 4.) I note the document entitled "D500 - S Band Body Cam" includes documentation which could be part of both the Operational Description and the Schematics. Please revise these documents as separate Exhibits and upload to the ATCB website.
- 5.) A Confidentiality Request letter is missing from this filing. Kindly provide this document.
- 6.) A Manual is missing from this filing. Please provide a Manual for this device.
- 7.) In general, the FCC ID: refers to the entire product, which in this case includes both the modulator/synthesizer and RF power amplifier. Usually "bread boarded" systems are not eligible for Certification; only devices contained within a common case can be considered appropriate. I will consider a rationale for Certification of this device as presented, but at this moment there is none given. As you have presented this device, you are only labeling the modulator/synthesizer and not the entire product. Please consider revising the labeling and label placement.
- 8.) The RF Exposure exhibit needs revision. It is not appropriate to provide a "safe distance". Under the Rules, only calculated exposure levels at 20cm will be considered RF category "Mobile". Providing data for distances at less than 20cm moves this product into RF category "Portable" which will require SAR testing.
- 9.) I do have some issues with the radiated spurious emissions data. All Licensed transmitters must have their spurious emissions confirmed using the substitution method of TIA/EIA 603. It is generally expected that emissions should be presented for at minimum six data points that are fundamentally related to the fundamental. Kindly provide radiated emissions using the substitution method. FYI: For Licensed transmitters of this type, data on the mid-channel is usually considered sufficient.
- 10.) Please provide better, clearer photos of the Test Setup. FYI: If the device is placed into a different case or chassis, this will change the Test Setup photos required.
- 11.) It is typically not appropriate to do conducted spurious emissions testing with a video bandwidth smaller than both the resolution bandwidth and the 6dB bandwidth of the emission to be measured. Please review and revise. Since it appears that this device may be close to the limits, testing on three channels across the requested frequency band would be appropriate.
- 12.) OFDM device test procedures for Licensed transmitters are not yet clearly defined. They are, however, clearly defined in the Unlicensed sections of the FCC rules. I cannot require you to supply this information, but it could be appropriate to supply additional test information for this product. Kindly consider providing peak excursion data, peak power data, and if possible RMS power output during the period of the transmitted burst.

13.) It does not appear that the Parts List is complete. Ideally, parts for both the modulator/synthesizer and RF power amplifier need to be provided. Please provide parts list for all portions of this device to be included under this FCC ID.



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President and Director of Engineering

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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 may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. 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 sender.