



American Telecommunications Certification Body Inc.  
6731 Whittier Ave, McLean, VA 22101

May 29, 2007

RE: Huawei Technologies Co., Ltd.

FCC ID: QISE870

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

- 1.) The contact name listed on the FCC website is Zhang Xinghai. But the contact listed on Form 731 is Paul Zhang. Please resolve this discrepancy
- 2.) The application form is not signed. Please correct and submit a signed Form 731. A stamp would be considered acceptable too.
- 3.) The FCC has recently released a new exclusions list. Part of this exclusions list excluded the following device from TCB approval: "WCDMA Devices supporting 3GPP Release 6 – HSUPA/HSDPA". Devices which support 3GPP Release 6 must be approved by FCC only. Does this device qualify for TCB approval?
- 4.) Please provide larger, clearer internal photographs. It is impossible to view the boards properly with the photos placed two on a page. The photos must be clear enough to view the traces in the board and any component designators which may be present.
- 5.) The operational description indicates that this device can see production variances that are much greater than that which was tested. As an example, for the 850MHz band, GSM/GPRS shows 33dBm +/- 2dB. This means that before any testing begins, you should make sure that a test sample is provided which will obtain an RF power within 10% of +35dBm. Typical or nominal power is not appropriate – you must test the device when it is tuned up to the maximum expected RF power settings. Please note that this will affect radiated power, spurious emissions and SAR test results.
- 6.) Please pay particular attention to output power and SAR testing. Measured power by the EMC laboratory must never be greater than that measured by the SAR lab. Also, agreement to within 5% accuracy must be shown for conducted power measurements between SAR lab and EMC lab
- 7.) Section 6.1.4 indicates that substitution was performed with a 1.25MHz wide CDMA signal. Please explain how this would be appropriate for substitution measurement of a 5MHz wide WCDMA carrier.
- 8.) ERP/EIRP measurements must be performed across low, mid, and high channels – not simply lowest and highest. This is an FCC interpretation. Please review and supplement your existing data.
- 9.) FCC requirements are that frequency stability testing be performed over the temperature range of -30C to +50C. Please explain why testing was only performed to -10C.
- 10.) Band edge compliance has not been properly demonstrated for the critical 1MHz just below and just above the band edges. I would suggest that band edge plots include measurements with a span no wider than 4 or 5MHz and a center frequency directly on the band edge of 824, 849, 1850, and 1910 MHz.
- 11.) It is not clear that the substitution method was performed on all spurious emissions. There are several emissions which are within less than 8dB of the limit. These are candidates for performing full substitution testing using the procedure illustrated in TIA/EIA 603.
- 12.) FYI: If the RF power target values for production variance in the operational description are in error, then they should be included as part of the tune up procedure instead.
- 13.) FYI: It may be helpful to provide the manufacturers specification for the antenna used with this device. If there are measurement data available, this would be helpful.

A handwritten signature in black ink, appearing to read 'William H. Graff', written in a cursive style.

William H. Graff  
President and Director of Engineering

[mailto: whgraff@AmericanTCB.com](mailto:whgraff@AmericanTCB.com)

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.