



HERMON LABORATORIES

November 8, 2005

American TCB  
6731 Whittier Ave  
Suite C110  
McLean, VA 22101  
Attn: Mr. Timothy Johnson, Examining Engineer

RE: your e-mail dated October 27, 2005; Vyvo Ltd.  
**FCC ID: PBJV284, ATCB002867**

Dear Mr. Johnson,  
Please find below the answers to your questions.

- 1) The revised file "Internal\_photographs\_16109\_rev1" with additional photograph #6 of Tuner without shields was uploaded on November 8, 2005 via Internal Photographs folder.
- 2) We didn't use any impedance matching network as it is problematic to find one to cover the entire frequency band of measurements (up to 10<sup>th</sup> harmonic). We used attenuator to improve return loss and added correction factor of 1.9 dB to spectrum analyzer readings to compensate voltage division between 75 Ohm source and 50 Ohm load.
- 3) There is no true RMS detector in the spectrum analyzer we used for the test as well as in the most spectrum analyzers of Agilent. Peak detector was used for testing. The peak detector is calibrated in terms of equivalent RMS voltage/power of the envelope detector.
- 4) The revised "User\_Guide\_16109\_rev1" with corrected Section 3 "Using the Modem" was uploaded on November 8, 2005 via "Users Manual" folder.
- 5) We used the Emission Designator notation for the maximum channel BW (3.2 MHz), for both 16QAM and QPSK. The Emission Notation is 3M20D1W for 3.2 MHz 16QAM, and 3M20G1W for 3.2 MHz QPSK. The user has several Symbol Rate options (2560, 1280, 640, 320, 160 Ksps), which are related to maximum channel BW (3200, 1600, 800, 400, 200 KHz), for both QPSK and 16QAM. The actual measured occupied BWs were below the maximum channel BW for all channel BW and modulation.
- 6) Please refer to the document "RF\_specifications\_16109", page 1, Table "General", Power Amplifier: 6 V, 650 mA.
- 7) Thank you for help.

Sincerely,

Marina Cherniavsky,  
certification engineer  
Hermon Laboratories