

TCB Issues
2-22-2007
Elite TCB

- 1) On page 13 of the test report (antenna conducted emissions), you only performed antenna conducted emissions up to the 8th harmonic. Why did you not measure up to the 10th harmonic? Antenna conducted emissions must be performed at the low, mid, and high channels. Why did you only perform antenna conducted emissions on the mid channel?

I don't understand Antenna Conducted emissions. The Conducted emissions are tested directly to the EUT with NO antenna connected??? Data was observed to the 10th harmonic but the last harmonics were below the noise floor.

- 2) On page 26 of the test report (band edge compliance), the analyzer plot is unclear. Your display line is set to 54dBuV. That is not the limit at the band edge. The limit is 54 dBuV/m. It does not look like you performed this test using the Marker-Delta method described in Public Notice DA 00-705 dated March 30, 2000.

The marker-delta method is attached as an additional document. The document reviews the steps per DA00-705 and shows the calculation of the data. The duty cycle calculated and a correction factor for the percent duty cycle was put into the final marker-delta data.

- 3) For all of the band edge compliance tests, it appears that you did not perform the test with the hopping function enabled. In the Response to the TCB inquiries dated 12/19/2006, the following was stated: "The plot was retested to show the replication of signature with respect to the occupied bandwidth plots which are also hopping. The span was reduced to show the signature." This statement seems unclear to me. Please elaborate.

In order to properly measure the band edge data and capture the band edge information, it is necessary to hold the hopping signal at the upper and lower band edges.

- 4) Jackie has uploaded most of the exhibits for submittal. However the following exhibits are missing:

Jackie will provide the necessary exhibits.

On page 16 of the test report, it states that data observed from the 4th harmonic to the 10th harmonic were a minimum of 20dB below the limit.

- 1) How can you take readings above 18GHz when you state on page 15 of the test report that your EMCO 3115 antenna is calibrated only up to 18GHz.

I put in the equipment list the necessary antenna equipment.

- 2) How can you get your analyzer to read 20dB below the general limit at 24GHz?

The statement referencing the 20 dB limit has been removed from the report.