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American TCB

August 15, 2003  
RE: Leapfrog  
FCC ID: QDX2025001

In response to your questions:

1) The C31 proposed in the letter and schematics does not appear to be seen in the photographs provided. Please explain.

*C31 was incorrectly designated. Its correct designation is C2 on the main scanner board. The detailed photographs have been modified to highlight its location and the letter and report detailing the modifications has been updated to reflect the correct designation.*

2) The additional proposed changes appear on a separate antenna board. Please provide top/bottom photographs of this board as necessary to show any changes.

*The antenna board photographs have been added to the modified internal photographs document. The changed components have been highlighted. The correct designations for the antenna board parallel capacitors are C1 and C2. The letter and report detailing the modifications has been updated to reflect the correct designations.*

3) The confidentiality letter lists schematics, operational description, and block diagram. Only schematics were provided with this application. Please provide a corrected confidentiality letter.

*The confidentiality request has been updated appropriately.*

4) Most of the antennas listed in the test report appear to be on a one-year calibration cycle, however the Biconical antenna appears to be on a 2 year. Please comment.

*In accordance with Elliott's quality manual and ISO 17025 the calibration period for test and measurement equipment may be extended from one year to two years based on previous performance of the test and measurement equipment concerned and the verification procedures in place to provide confidence that the equipment is still operating correctly.*

5) The calculated extrapolation factor for correcting from 10 meter to 30 meter as given near the bottom of page 5 of 6 does not match those given above. Note that the calculations appear correct. Please correct the description above the bottom table.

*The statement has been corrected to reflect the 26.6dB extrapolation factor used.*

6) The harmonic corrected level in the table appears that is should have been  $16.2 + 20 \log (10/30) = 6.7$  dBuV/m according to the information provided. Please comment.

*The correct value should be  $16.7 + 20 \log (10/30)$ . The corrected numbers are in the revised report.*

7) Please comment on the test distance used for measurements above 30 MHz.

*As stated in the test data sheet (page 23 of 32 in the pdf, page 4 of 6 in the test data) the measurement distance above 30MHz was 3m.*

To support these answers the following documents have been uploaded to the ATCB website:

R52212 Revised.pdf  
Response to ATCB.pdf (*this document*)  
ATCB confidentiality letter for Permissive Change.jpg  
Internal Photographs (Revised).pdf  
Proposed Modification Details (revised).pdf  
845-00263-B Revised schematics.pdf (*to be held confidential*)

If you have further questions please do not hesitate to contact me via email at doc@elliottlabs.com.

Regards,



Mark Briggs

Director Of Engineering