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## INTERTEK TESTING SERVICES

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### **Audio Low Pass Filter Response (Section 95.637(b))**

#### **A. Test Equipment**

<b>Equipment</b>	<b>Brand Name</b>	<b>Model No.</b>
Audio Signal Generator	Leader	LFG-1300S
dB meter	Leader	LMV-182A

#### **B. Testing Procedure**

- 1) Connect the audio signal generator to the input of the post limiter low pass filter and the dB meter to the output of the post limiter low pass filter.
- 2) Apply a 1000 Hz tone from the audio signal generator and adjust the level per manufacturer's specifications. Record the dB level of the 1000 Hz tone as  $LEV_{REF}$ .
- 3) Set the audio signal generator to the desired test frequency between 3000 Hz and the upper low pass filter limit. Record the dB level at the test frequency as  $LEV_{FREQ}$ .
- 4) Calculate the audio frequency response at the test frequency as:

$$\text{low pass filter response} = LEV_{FREQ} - LEV_{REF}$$

- 5) Repeat the above procedure for all the desired test frequencies.

#### **C. Test Result**

For electronic filing, the audio low pass frequency response is saved with filename: lpf.pdf.