ICRA

Noise signals

Ver. 0.3.

International Collegium of Rehabilitative Audiology.

Hearing Aid Clinical Test Environment Standardization Work Group.

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1. In each channel: **Unmodulated random Gaussian noise.**
   Male weighted[1] idealized speech spectrum[2] . Normal Effort
   Level: L_{ref}
   2 min.

2. In each channel: **Unmodulated random Gaussian noise.**
   Male weighted idealized speech spectrum . Raised Effort[3]
   Level: L_{ref} + 5.7 dB
   2 min.

3. In each channel: **Unmodulated random Gaussian noise.**
   Male weighted idealized speech spectrum . Loud Effort[3] Level:
   L_{ref} + 12.1 dB
   2 min.

4. In each channel: **3 band speech modulated noise (3bSMN).**
   Female weighted[1] idealized speech spectrum . Normal Effort
   Level: L_{ref}
   5 min.

5. In each channel: **3 band speech modulated noise (3bSMN).**
   Male weighted idealized speech spectrum . Normal Effort
   Level: L_{ref}
   5 min.

6. In each channel: **2 persons babble, 1 female 3bSMN + , 1 male 3bSMN.**
   Idealized speech spectrum . Normal Effort
   Level: L_{ref} + 3 dB
   10 min.

7. In each channel: **6 persons babble, 1f + 1m + 2f$_{-6dB}$ + 2m$_{-6dB}$, all 3bSMN.**
   Idealized speech spectrum . Normal Effort
   Level: L_{ref} + 4.7 dB
   20 min.

8. In each channel: **6 persons babble, 1f + 1m + 2f$_{-6dB}$ + 2m$_{-6dB}$, all 3bSMN.**
   Idealized speech spectrum . Raised Effort
   Level: L_{ref} + 10.7 dB
   10 min.

9. In each channel: **6 persons babble, 1f + 1m + 2f$_{-6dB}$ + 2m$_{-6dB}$, all 3bSMN.**
   Idealized speech spectrum . Loud Effort
   Level: L_{ref} + 17.2 dB
   10 min.

10. In each channel: **Calibration Tone : 1 kHz.**
    Level: L_{ref}
    2 min.

Notes:

1. Male weighted spectrum: HP 100 Hz 12 dB/oct.,
   Female weighted spectrum: HP 200 Hz 12 dB/oct.

2. Idealized speech spectrum according to ANSI S3.79 draft v3.1-07/03/1993

3. Raised and loud effort according to ANSI S3.79 draft v3.1-07/03/1993

   All signals in both channels are uncorrelated.
   All levels are measured as long term RMS.