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# SMPTE STABLE DOCUMENT

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**Note:**

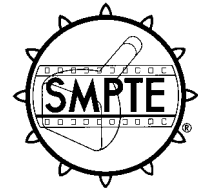
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**SMPTE RECOMMENDED PRACTICE****RP 92-1995**

Revision of RP 92-1990

# Specifications for Audio Level and Multifrequency Test Films for 8-mm Type S Audio Reproducers, Magnetic Type



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**1 Scope**

This practice specifies two audio frequency test films to be used for adjusting the sensitivity and frequency response of 8-mm type S motion-picture magnetic audio reproducers; one operating at 24 and the other at 18 frames per second.

**2 Normative references**

The following standards contain provisions which, through reference in this text, constitute provisions of this practice. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standards indicated below.

ANSI S4.3-1982 (R1992), Method for Measurement of Weighted Peak Flutter of Sound Recording and Reproducing Equipment.

ANSI/IEEE 152-1992, Audio Program Level Measurements

ANSI/SMPTE 149-1994, Motion-Picture Film (8-mm Type S) — Perforated 1R

ANSI/SMPTE 164-1993, Motion-Picture Film (8-mm Type S) — Magnetic Audio Record — Position, Dimensions and Reproducing Speed

ANSI/SMPTE 223M-1991, Motion-Picture Film — Safety Film

**3 Test film signal****3.1 Frequencies****3.1.1 Type 24 film**

The audio record on the type 24 film shall be an original recording which will reproduce at the frequencies specified in clause 4 when the linear velocity of the film is 24 frames per second or approximately 20 ft (6.1 m) per minute (4 in or 10.2 cm per second).

**3.1.2 Type 18 film**

The audio record on the type 18 film shall be an original recording which will reproduce at the frequencies specified in clause 4 when the linear velocity of the film is 18 frames per second or approximately 15 ft (4.6 m) per minute (3 in or 7.6 cm per second).

**3.2 Distortion**

The total harmonic distortion of the recorder signals shall not exceed 1%.

**3.3 Audio record**

The location and dimensions of the recorded audio record shall be in accordance with ANSI/SMPTE 164.

**3.4 Signal fluctuation**

The signal levels shall not fluctuate more than  $\pm 0.5$  dB within the test section lengths.

**3.5 Flutter**

The weighted peak flutter of the audio record shall not exceed  $\pm 0.10\%$  when measured in accordance with ANSI S4.3.