FREQUENCY RANGES OF MUSICAL INSTRUMENTS AND VOICES

Standard pitch A4 = 440 Hz

Descriptions of energy excess in band

Boomy
Punchy
Muddy
Boxy
Thick
Fat
Sweet
Nasal
Harsh
Edgy
Sibilant
Airy
Slam
Impact
Warm
Bright

SUB-BASS | LOW BASS | BASS | MID-BASS/LOW MID | MID-RANGE | UPPER MID-RANGE | PRESENCE | TREBLE | ULTRASOUND

Descriptions of energy deficit in band

Thin
Sweet
Dull
Warm

dB

0
-10
-20
-30
-40
-50
-60

PICCOLO
FLUTE
CLARINET
TRUMPET
FRENCH HORN
TROMBONE
TUBA
VIOLIN
VIOLA
GUITAR
CELLO
DOUBLE BASS
HARP
KETTLE DRUMS
SOPRANO
MEZZOSOPRANO
CONTRALTO
TENOR
BARITONE
BASS
PIANO
PIPE ORGAN

dB(A) weighting curve

SPEECH FUNDAMENTALS
M F

VOWELS
U y,i e O ø A æ u r o p a h Ø Y Æ g

CONSONANTS
E k l t f s h
"singing formant"

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