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# MP3

MPEG audio layer-3

MPEG-1, MPEG-2

Fraunhofer Society

128kbps, 192kbps, 320kbps

, bps(bit per seconds),

bit

,

.WAV

가

1411kbps(16-bit 44.1kHz) 4600kbps(24-bit 48kHz)

MP3

1/10~20

192kbps, 320kbps

MP3

,

가

,

, CD

16-bit 44.1kHz

75%~95%

가

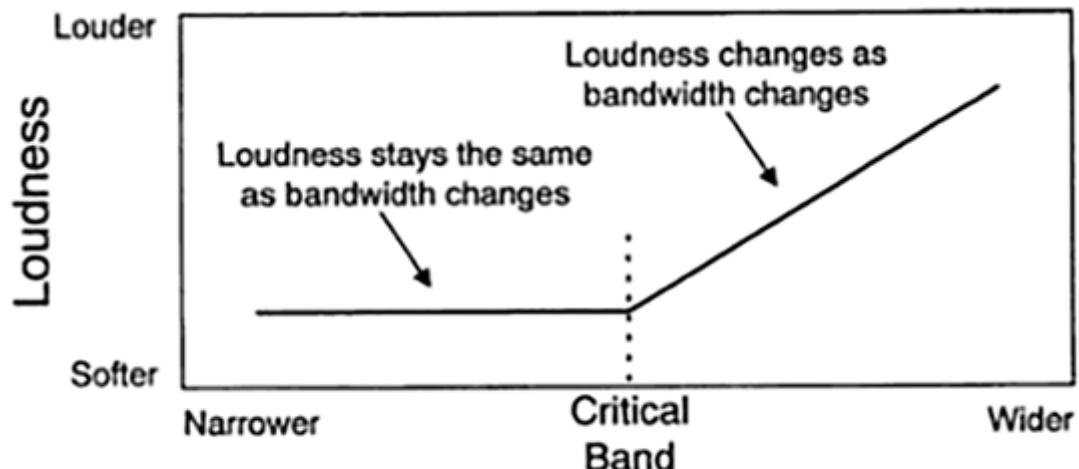
.

(CD

1411kbps → 128kbps)

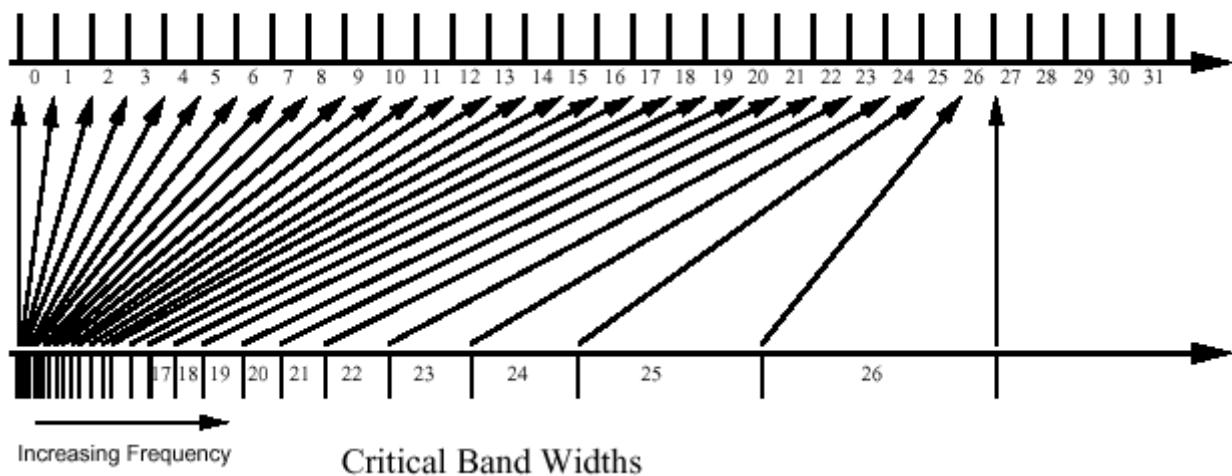
1933 Bell Labs Harvey Fletcher

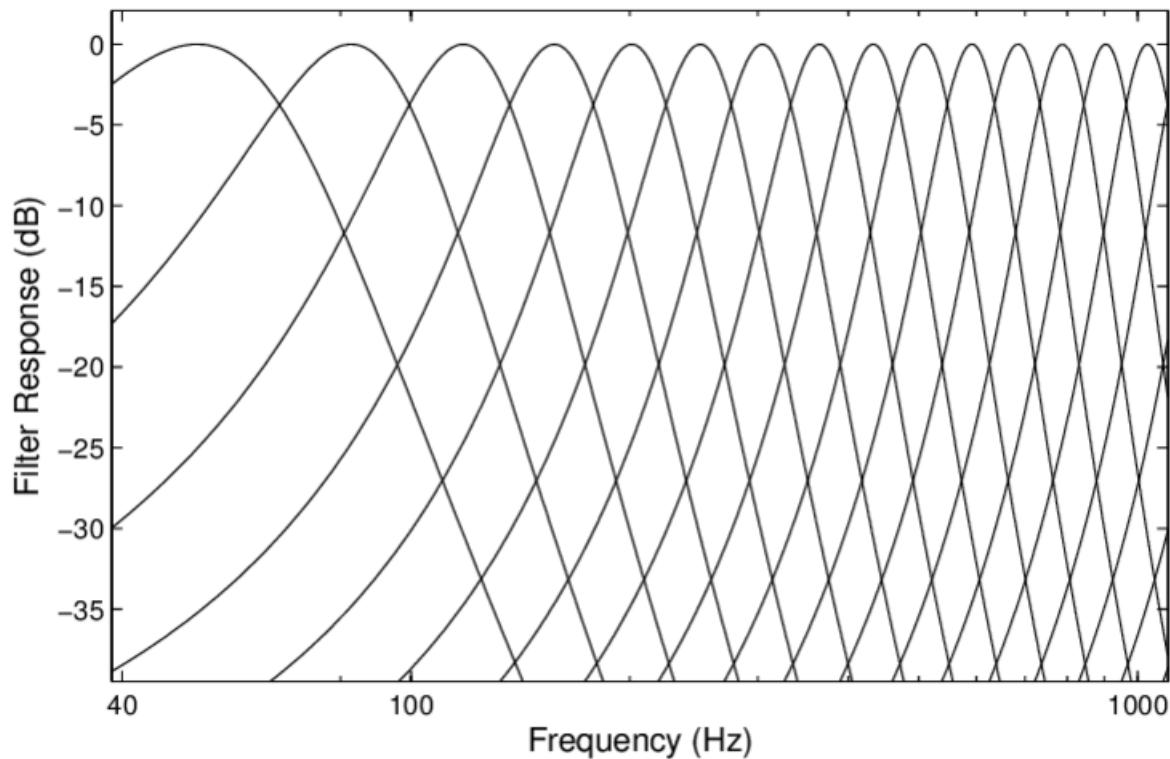
MP3



## Width of the Band

MPEG/Audio Filter Bank Bands





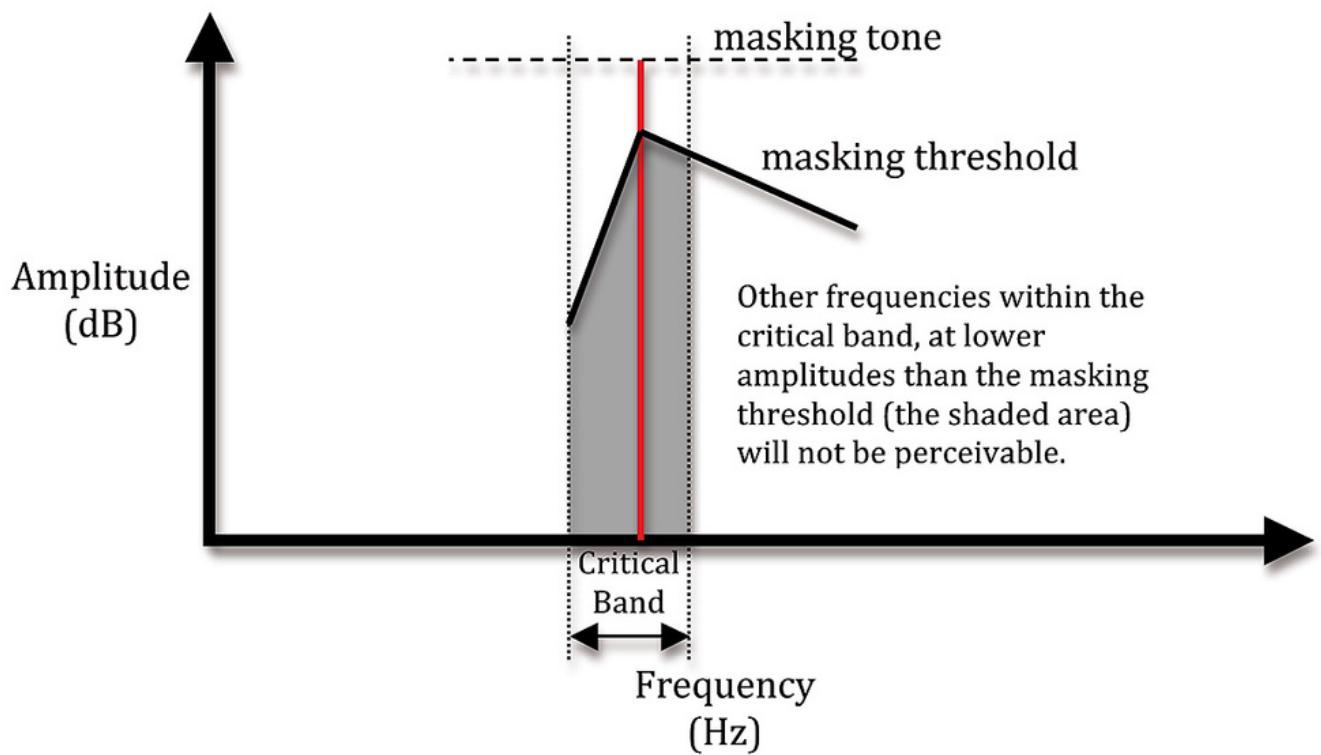
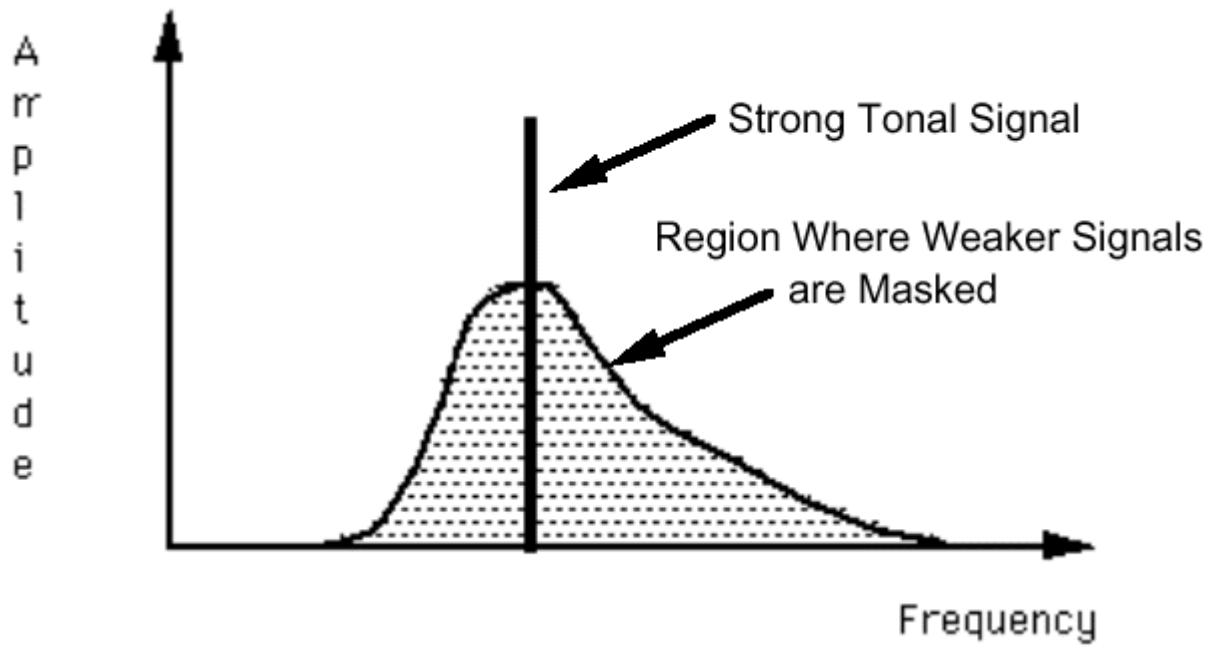
## Critical bandwidth

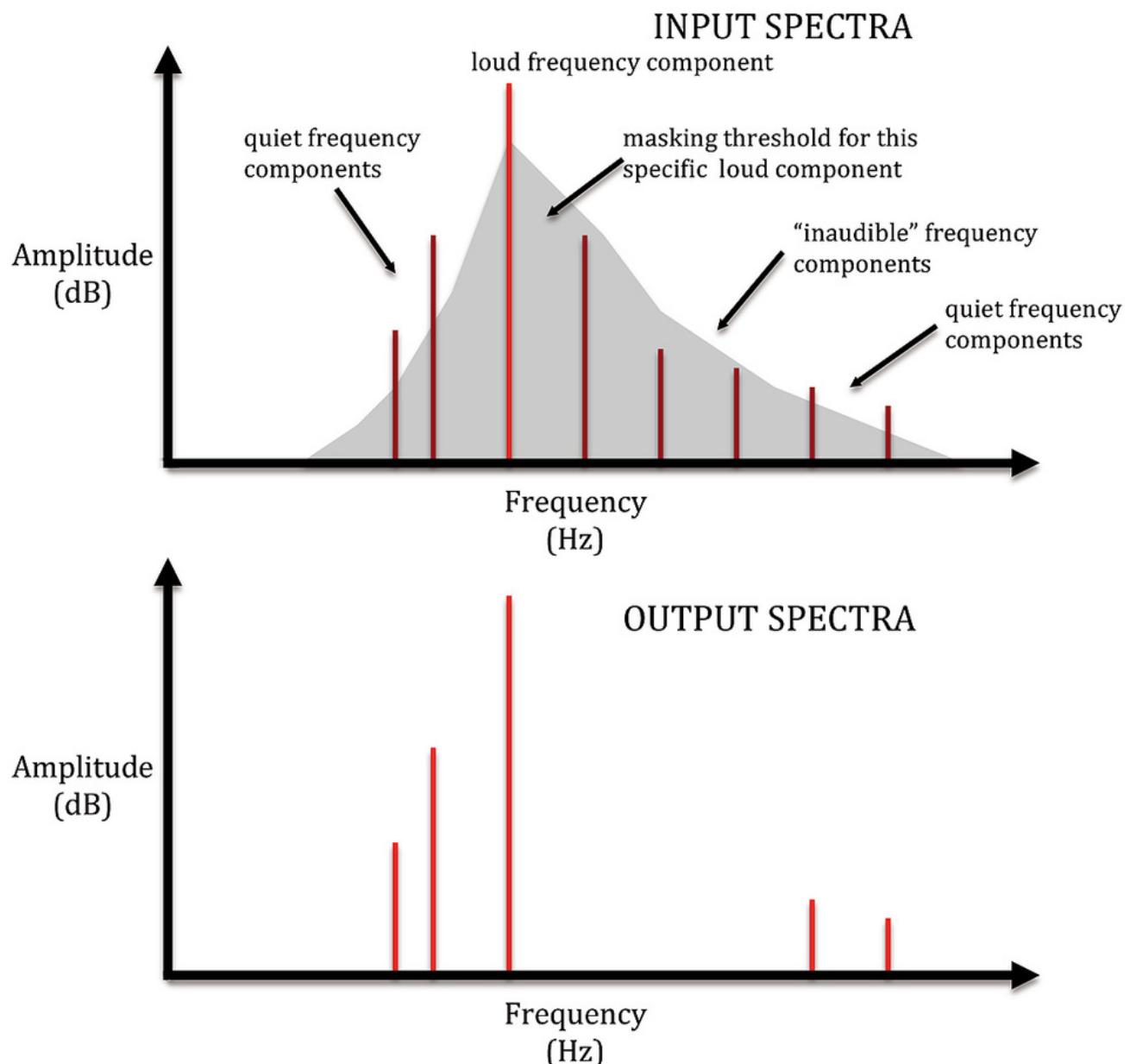
People perceive sound at different loudness [levels](#) depending on the bandwidth of the sound. When the bandwidth of sound is wider, it tends to be perceived as louder. However, as the bandwidth decreases, the sound is perceived as quieter. There is a certain point beyond which further reductions in bandwidth go unnoticed by humans. This point represents the minimum bandwidth that humans can perceive, and it is referred to as the critical bandwidth.

In [MP3](#) encoding, the critical bandwidth is used to divide the frequency spectrum into different critical bandwidths to remove masked sounds beforehand.

가

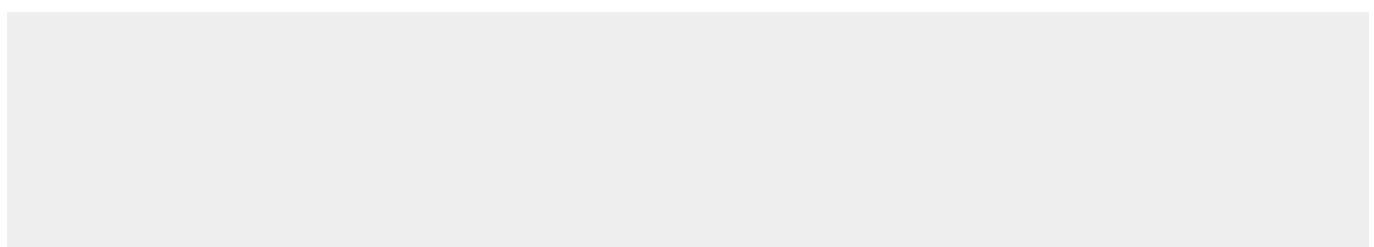
MP3

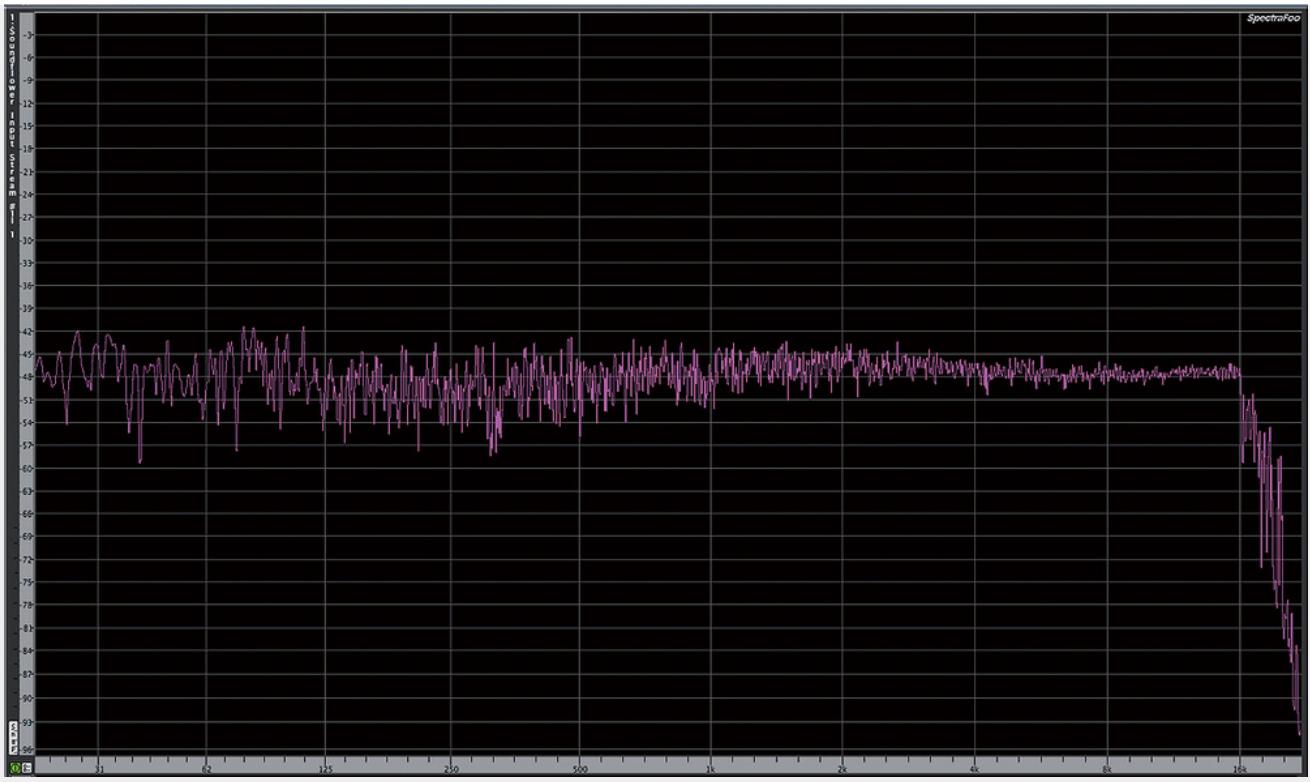




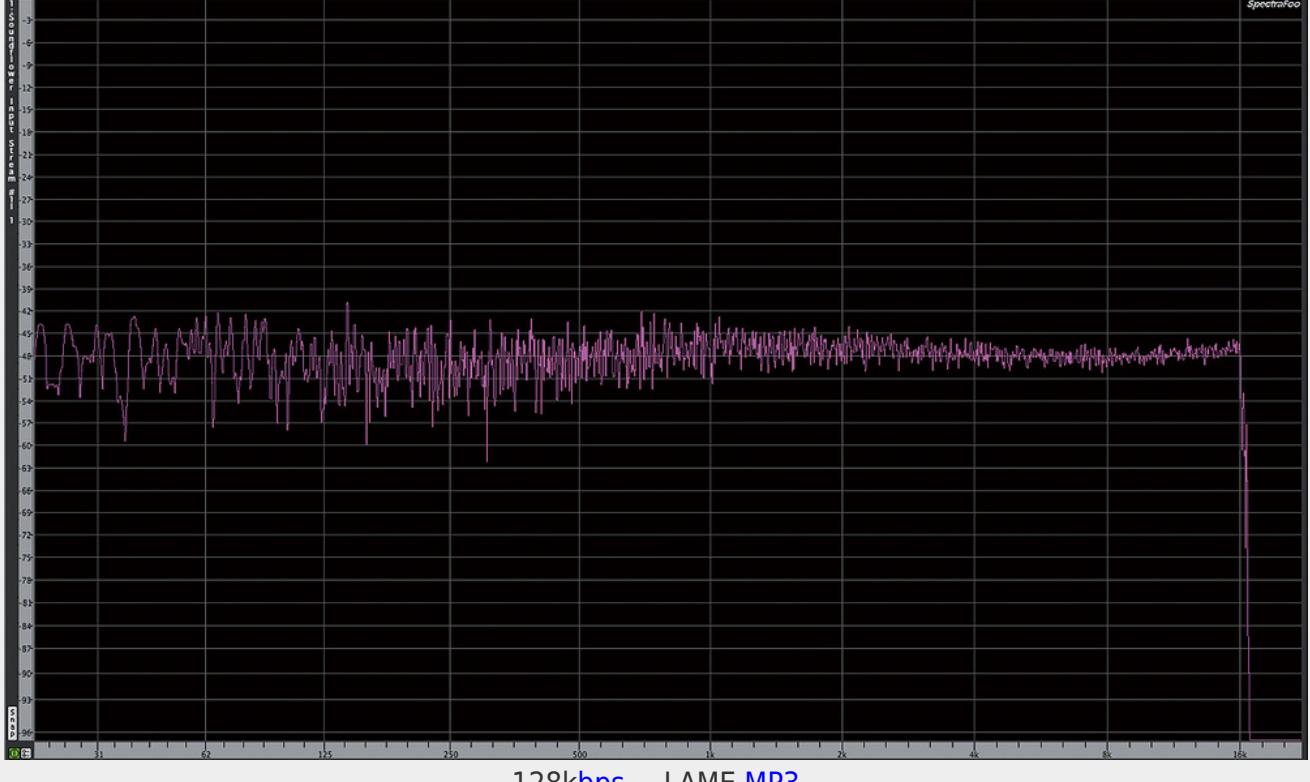
## Brick Wall LPF

가 20Hz~20kHz, 16kHz, 16kHz, kbps, MP3  
 가 ,

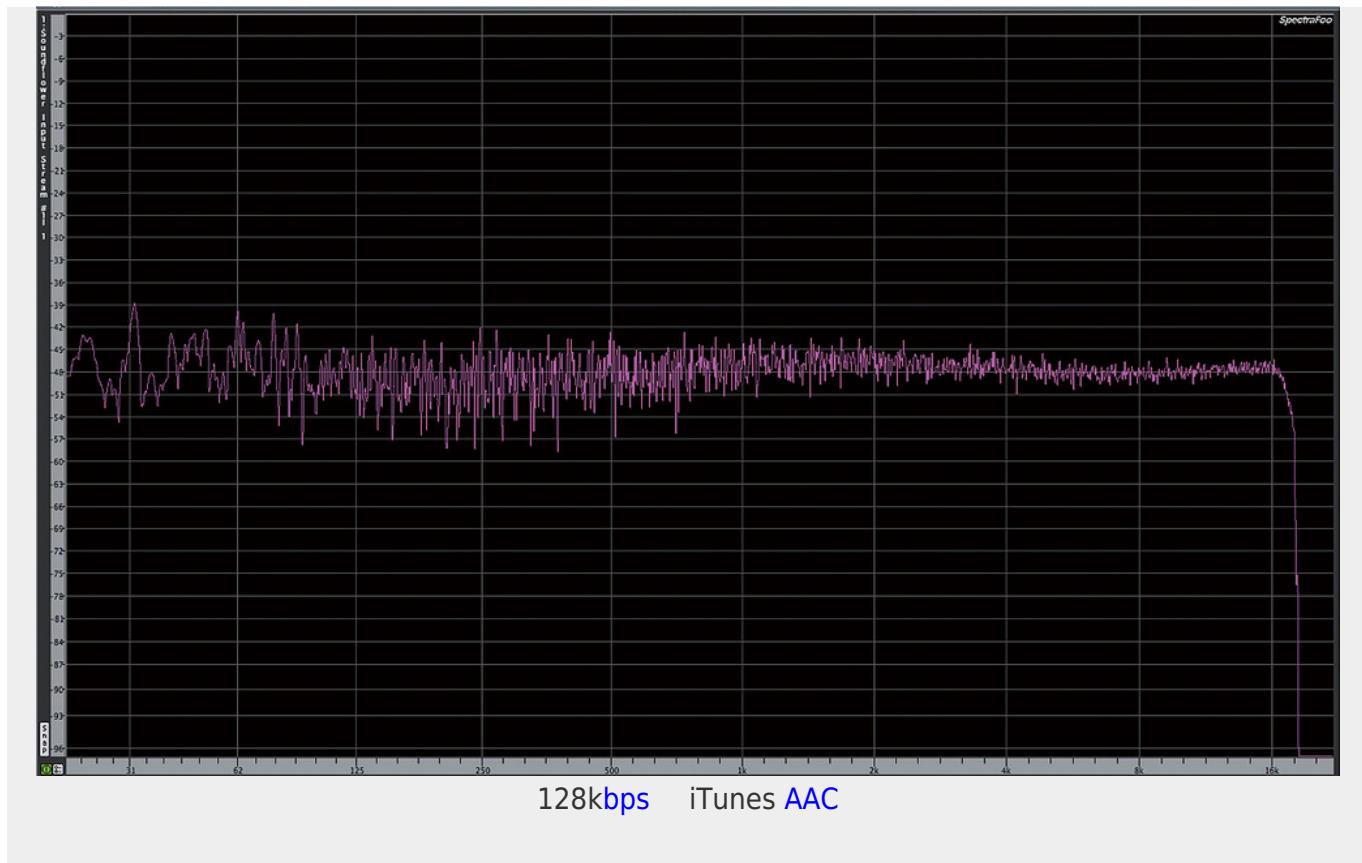




128kbps iTunes MP3



128kbps LAME MP3



, , 가 , , ,

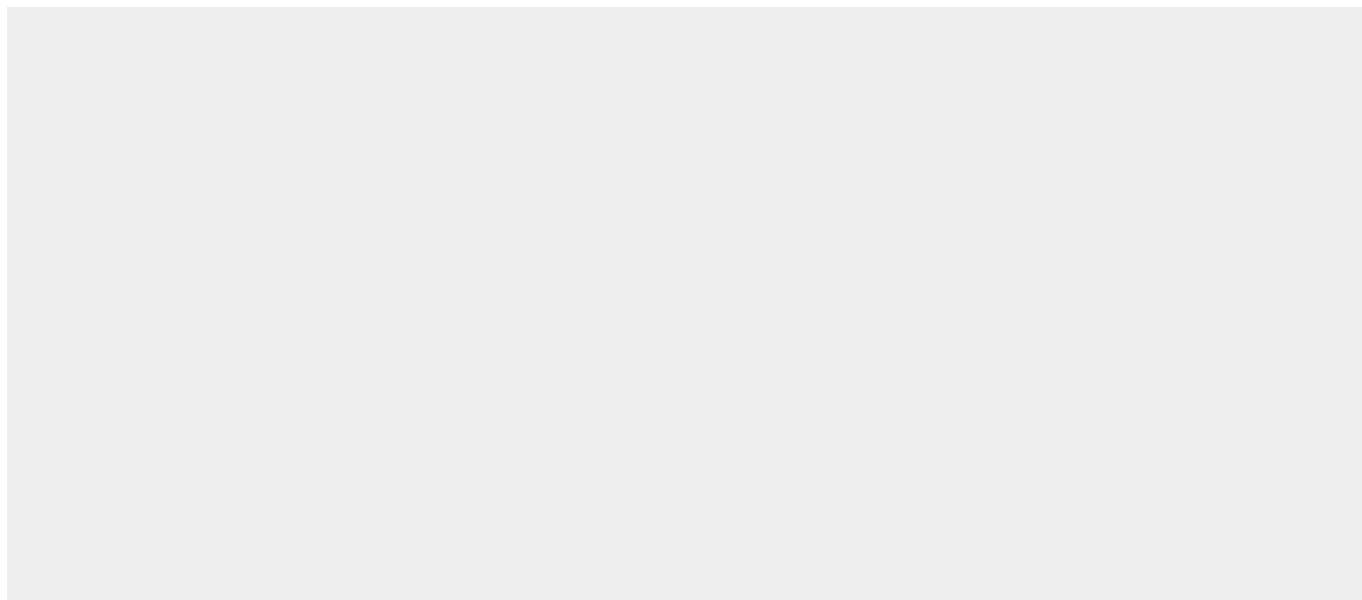
가 , , ,

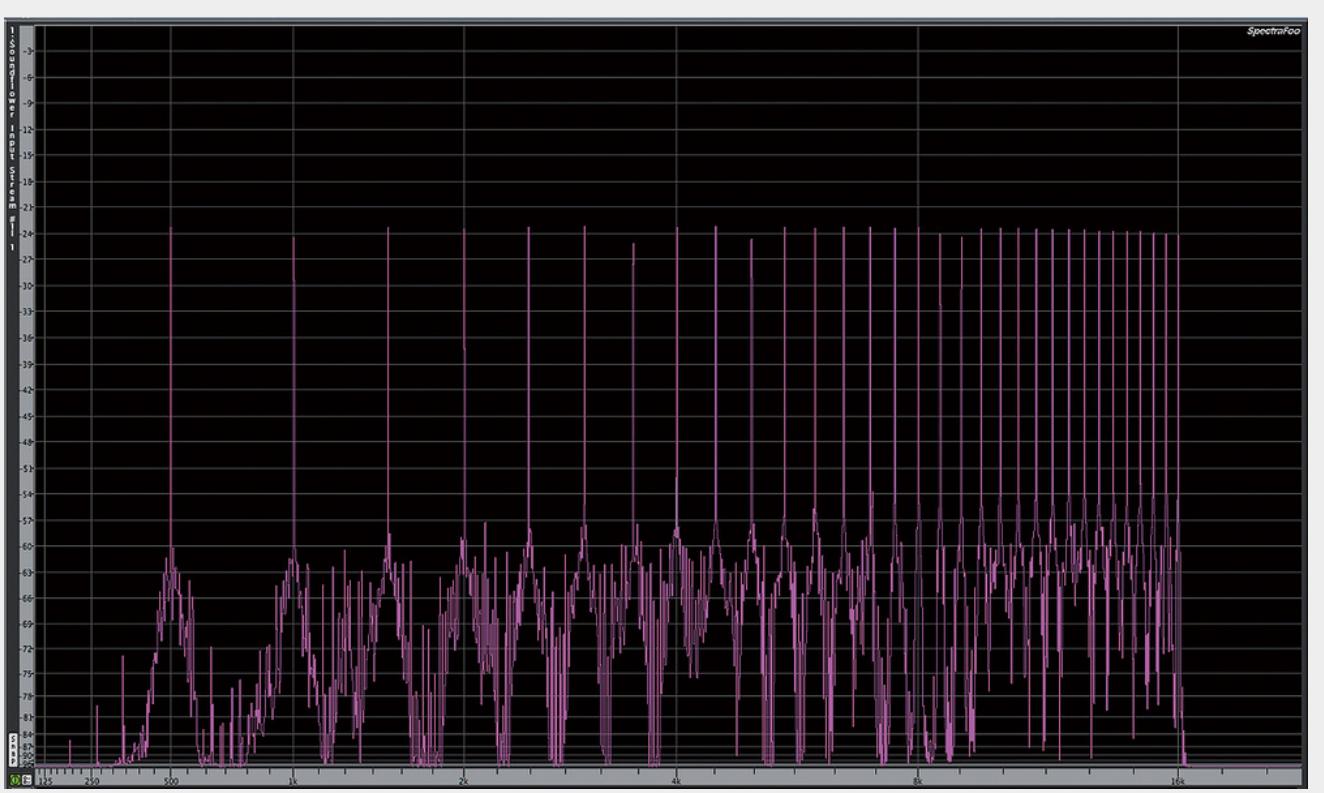
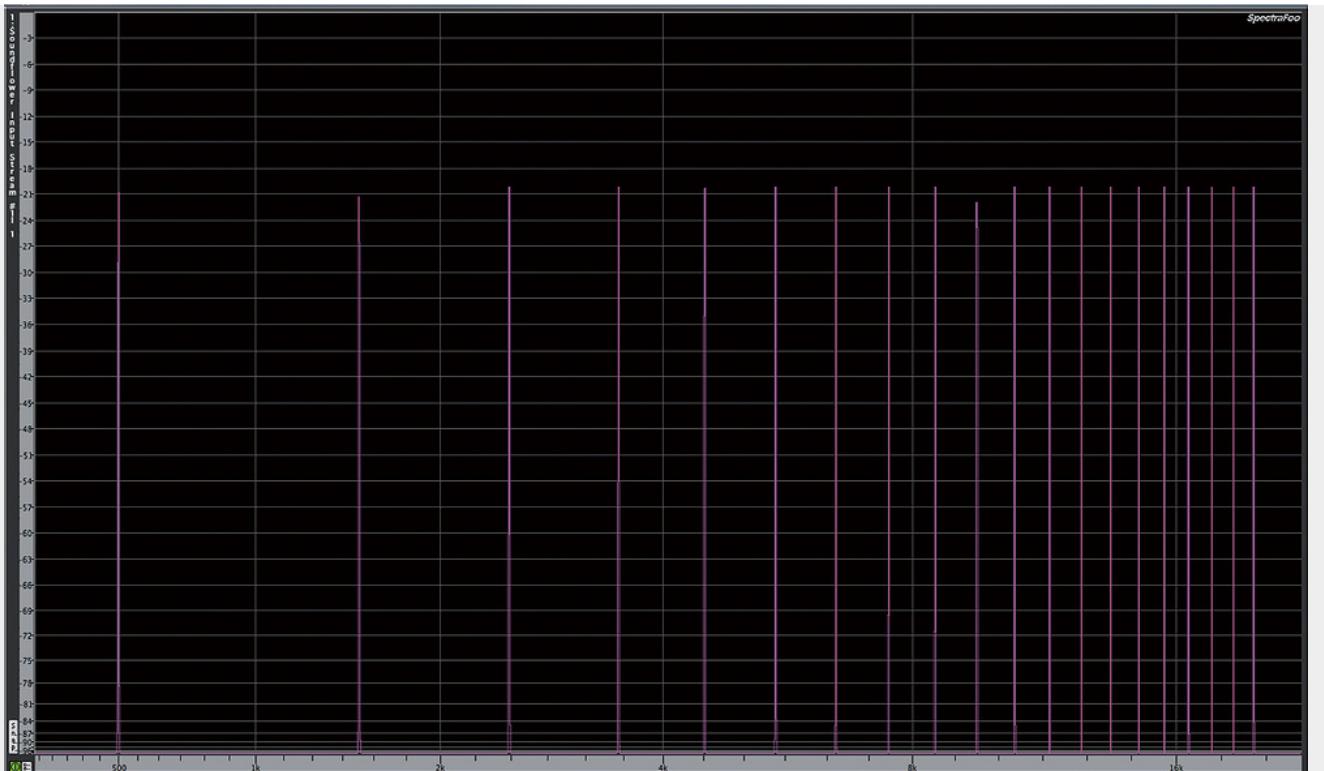
Swirlies

Swirlies

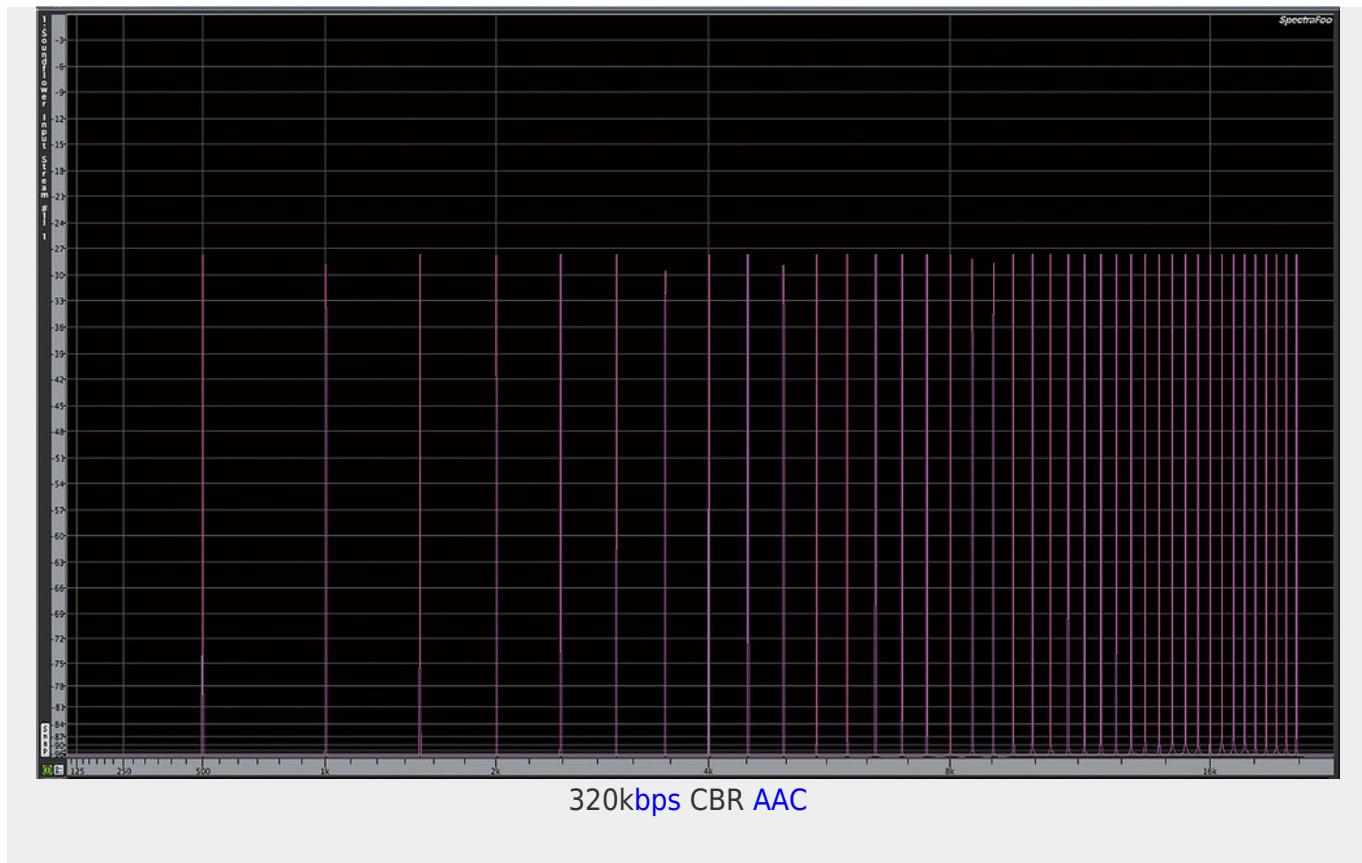
MP3

AAC





320kbps CBR MP3



MP3

, , , , ,

MP3

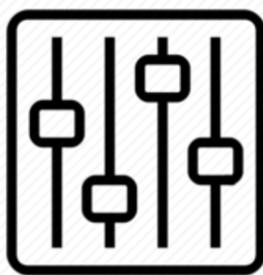
ID3v1, ID3v2 가 , APEv2

## Cubase Export ID3 tag

Setup ID3 Tag

Title	<i>Enter Title</i>
Artist	<i>Enter Artist</i>
Album	<i>Enter Album</i>
Track Number	0 ▲
Year	2018 ▲
Genre	Blues ▼
Comment	<i>Enter Comment</i>

OK



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