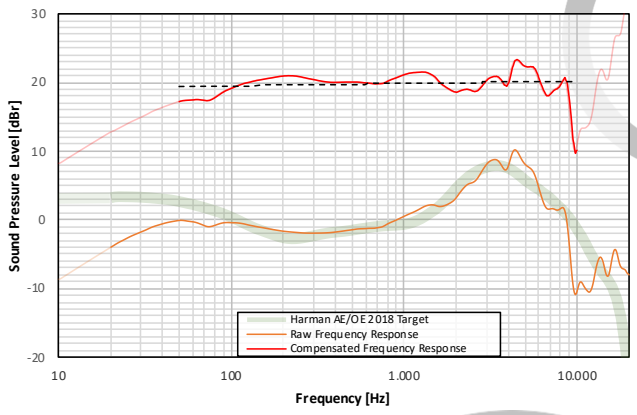
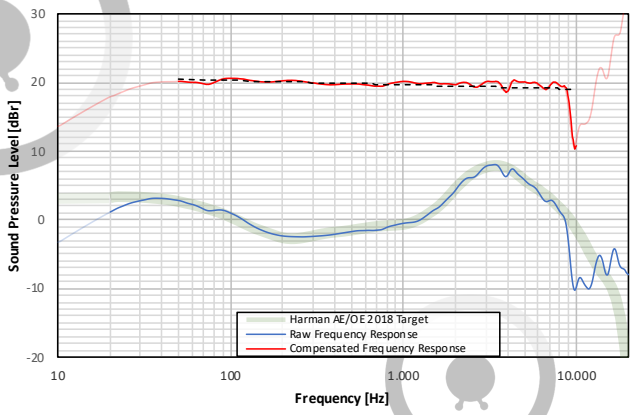
ORATORY1990

EQ setting for Sennheiser HD560S

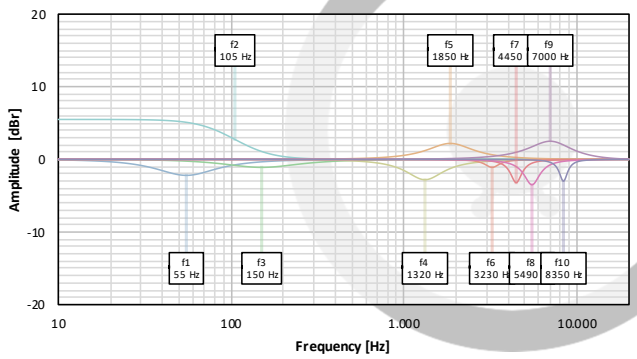
SPL Frequency Response without EQ



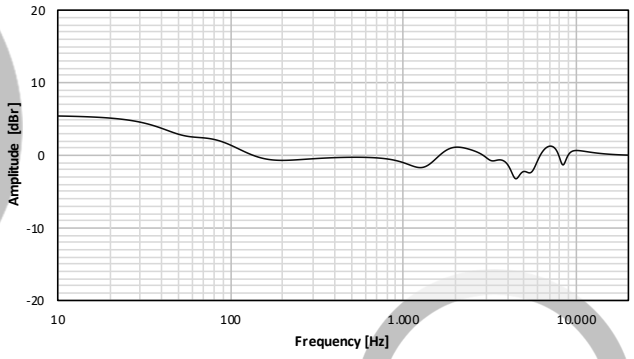
SPL Frequency Response with EQ



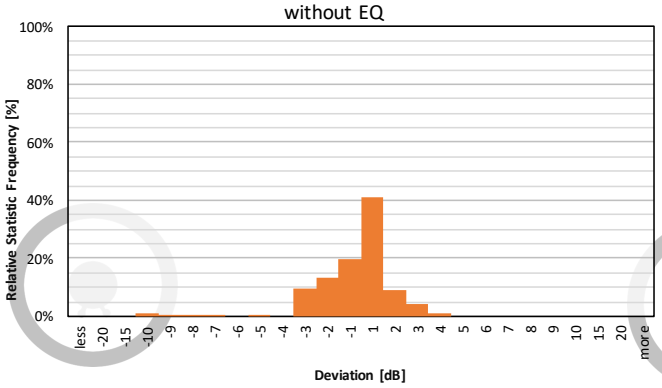
EQ Curve Individual Filters



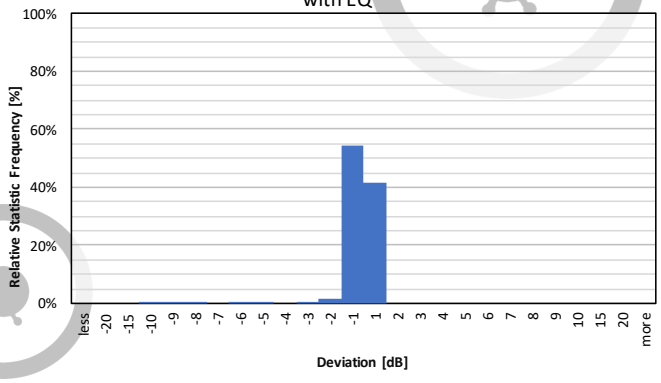
EQ Curve total



Error Curve Histogram without EQ



Error Curve Histogram with EQ



Filter Settings					
	Filter Type	Frequency	Gain	Q-Factor	BW
Band 1	PEAK	55 Hz	-2,2 dB	1,0	1,39
Band 2	LOW_SHELF	105 Hz	5,5 dB	0,71	
Band 3	PEAK	150 Hz	-1,1 dB	0,8	1,70
Band 4	PEAK	1320 Hz	-2,8 dB	1,6	0,89
Band 5	PEAK	1850 Hz	2,2 dB	1,3	1,08
Band 6	PEAK	3230 Hz	-1,1 dB	4,0	0,36
Band 7	PEAK	4450 Hz	-3,2 dB	5,0	0,29
Band 8	PEAK	5490 Hz	-3,5 dB	3,5	0,41
Band 9	PEAK	7000 Hz	2,5 dB	1,2	1,17
Band 10	PEAK	8350 Hz	-3,0 dB	6,0	0,24

Preamp gain:
-5,5 dB

Deviation from Target	
Before EQ	After EQ
1,22 dB	0,43 dB

Preference Rating*	
Before EQ	After EQ
91/100	94/100

Adjust gain of band 2 to preference (bass)
Adjust gain of band 4 to preference (tonal accuracy/shoutiness)
Adjust gain of band 5 to preference (timbral accuracy)
Adjust gain of band 10 to preference (detail/intimacy)

*preference rating prediction based on:
[1] S. Olive et al: "A Statistical Model That Predicts Listeners' Preference Ratings of In-Ear Headphones: Part 1" (2017)
[2] S. Olive et al: "A Statistical Model That Predicts Listeners' Preference Ratings of In-Ear Headphones: Part 2" (2017)
[3] S. Olive et al: "A Statistical Model That Predicts Listeners' Preference Ratings of Around-Ear and On-Ear Headphones" (2018)
The normalized preference ratings are used, where zero deviation from target equals a preference rating of 100

measured on GRAS45BC KEMAR
GRAS KB5000/5001 anthropometric pinnae
APx515 or APx526 Signal Generator/Analyzer
APx1701 amplifier

v2.9
by oratory1990
03.11.20