

31-band EQ values for selected FR targets and over-ear headphones

↓ HP model / dB→	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1K	1.25K	1.6K	2K	2.5K	3.15K	4K	5K	6.3K	8K	10K	12.5K	16K	20K	
(FR target curves)																																
Diffuse field (H&M)	0	0	0	0	0	0	0	0	0	0.5	0.8	1	1.2	1.5	2	3	3.5	4	5	8	11	15.5	15.5	13	10.5	10	9.5	7	4	0	-3.6	
Diffuse field (B&K)	0	0.3	0.5	0.2	0.3	0.2	0.5	0.3	0.2	0.3	0	0.4	1	1.3	2.5	2.5	4	5	4.7	5.7	10	15	17.3	15	11.6	10.7	2.3	4.2	9.2	0	-4.5	
-1dB/oct room gain	5	4.7	4.5	4.1	3.8	3.5	3.2	2.8	2.6	2.1	1.9	1.5	1.1	0.8	0.5	0.2	-0.8	-0.5	-0.3	-1.2	-1.5	-1.7	-2.1	-2.4	-2.7	-3	-3.4	-3.8	-4.2	-4.7	-5	
-0.9dB/oct room gain	4.5	4.25	4	3.6	3.3	3	2.7	2.5	2.2	1.7	1.5	1.3	1	0.7	0.3	0	-0.3	-0.7	-1	-1.3	-1.6	-1.8	-2	-2.5	-2.8	-3	-3.3	-3.7	-4	-4.3	-4.5	
B&K room gain	2.5	2.7	2.9	3	3	3	3	2.9	2.8	2.7	2.5	2.2	2	1.8	1.6	1.5	1.1	0.9	0.6	0.3	0	-0.3	-0.5	-1.1	-1.2	-1.6	-2	-2.2	-2.6	-3.1	-3.6	
DF+RG (H&M/B&K)	-0.3	-0.1	0.1	0.2	0.2	0.2	0.2	0.1	0	0.4	0.5	0.4	0.4	0.5	0.8	1.7	1.8	2.1	2.8	5.5	8.2	12.4	12.2	9.1	6.5	5.6	4.7	2	-1.4	-5.9	-10	
DF+RG (B&K/B&K)	0	0.5	0.9	0.7	0.8	0.7	1	0.7	0.5	0.5	0	0.1	0.5	0.6	1.6	1.5	2.6	3.4	2.8	3.5	7.5	12.2	14.3	11.4	7.9	6.6	-2.2	-0.5	4.1	-5.6	-10.6	
DF+ 1dB/oct (H&M)	2.7	2.4	2.2	1.8	1.5	1.2	0.9	0.5	0.3	0.3	0.4	0.2	0	0	0.2	0.9	0.4	1.2	2.4	4.5	7.2	11.5	11.1	8.3	5.5	4.7	3.8	0.9	-2.5	-7	-10.9	
Etymotic target Cr	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.1	-1	-0.8	-0.4	-0.2	0.5	1.3	2.1	2.7	3.5	7.9	11.5	11	8.1	6.6	3.4	2.5	0	-2.5	-4.5	-7	
Harman 2013	3.8	3.8	4	4	3.8	3.6	2.7	2.5	1.5	0.8	0.3	0	1	1.4	1.8	2.1	2.6	2.7	3.4	6	7.7	11.3	12	10.4	8	6.6	3.5	0.2	-4	-8	-7	
Harman '13 -2 bass	1.8	1.8	2	2	1.8	1.6	1.7	1.5	0.5	0.3	0	0	1	1.4	1.8	2.1	2.6	2.7	3.4	6	7.7	11.3	12	10.4	8	6.6	3.5	0.2	-4	-8	-7	
Harman '13 w/o bass	0	0	0	0	0	0	0	0	0	0	0	0	1	1.4	1.8	2.1	2.6	2.7	3.4	6	7.7	11.3	12	10.4	8	6.6	3.5	0.2	-4	-8	-7	
Harman 2018	5.5	6.2	6.1	5.8	5.6	5	4.4	3.4	2	1	0.1	0	0.5	1	1.3	1.7	1.9	2	3	5.2	7.4	9.6	10.6	10.3	9.5	7	4.6	1.6	-3	-6	-18	
Harman '18 (Or's -2 bass)	3.8	3.8	3.7	3.7	3.5	3.2	2.6	1.7	0.9	0.3	0	0	0.4	0.8	1	1.4	1.7	1.8	2.5	4.4	7	9.3	10.4	10.2	8.2	6.6	4.2	1.1	-2.5	-6.7	-18.6	
Harman '18 w/o bass	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.8	1	1.4	1.7	1.8	2.5	4.4	7	9.3	10.4	10.2	8.2	6.6	4.2	1.1	-2.5	-6.7	-18.6	
(Headphones)																																
AKG K361 Or	1.6	2.2	2.5	2.8	1.8	-0.3	-0.4	0	0.2	0.5	-1.9	-3.3	-3.9	-3.6	-2.8	-2.1	-0.8	0	1.8	3.7	5.4	6.1	6.6	-0.4	0.2	1.5	-1.1	-3.7	-7.4	-11.1	-13.8	
AKG K371 Or	5.7	5.9	5.3	4.9	3.2	0.9	1	0.9	0.6	-0.3	-0.8	-1.8	-1.8	-1.8	-1.5	-1.1	-0.6	0	0.7	2.3	4.2	7.3	7.3	2	4.2	4.3	3	-3.3	-6.2	-15	-16.5	
AKG K550 IF	2.4	3	3.2	3	2.3	1.4	-0.4	0.9	1.7	-0.8	-0.3	-0.6	-0.8	-1.2	-1	-2	-1.8	0	2.1	2.7	2.9	5.6	7.6	4	1.8	3.7	2.7	2.1	-4.9	-12.5	-5.3	
AKG K601 Or	-9	-7.5	-6	-5	-5	-5	-2.5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	2	6	10	13.5	11.5	10.5	5	6	7	-9	-7	-3	-10	
AKG K701 Rt	-6	-4	-4	-3	-2.5	-2	-2	-1.5	-1	-1	-1	-1	-1	-1	-1	-2	-1.5	0	1.5	4	9	13	11.5	7.5	6.5	9.5	10	-1	1	-10	-7	
AKG K712 Or	1	2	2.8	3.4	3.9	4.2	4.3	4.3	3.9	3.9	4.4	4.6	4.6	4.5	4.1	3.1	1.8	0	-2.1	2.1	7.3	8.2	6.6	9.1	10.3	8.7	6.8	-5.2	1.8	-3.4	-11.1	
AKG Q701 Rt	-5	-4	-3	-2	-1.5	-1	-1	-0.5	0	0	0	0	0	0	-0.5	-1	-0.5	0	1	4	9	12	9.5	7	6.5	10	9	-3	3	-11	-7	
Audeze LCD-1 Or	-5.3	-4.6	-4	-3.7	-3.6	-3.1	-2.1	-2.2	-2.3	-2.3	-2.1	-1.9	-1.6	-1.2	-1.2	-1.4	-1.2	0	-0.9	-2.2	-0.6	5.1	8.7	5.9	0.1	-3.2	-1.9	-5.7	-5.6	-3.5	-12.9	
Audeze LCD-2 Class Rt	-5	-4.8	-3.8	-2.9	-2.8	-2.9	-3	-3	-2.9	-2.8	-2.8	-2.7	-2.4	-2.2	-2.5	-0.8	1.2	0	0.8	0.2	2.2	4.5	1.7	-5	-2.2	1.5	0.1	-13	-4.4	-7.9	-10.1	
Audeze LCD-2 Or	-3.3	-2.8	-1.8	-1.8	-2.1	-1.9	-1.8	-1.7	-1.7	-1.7	-1.6	-1.7	-2.1	-1.8	-1	-0.4	0	0	-0.3	1.5	1.5	2.6	4	-0.6	-1.8	2.8	-1.8	-2.2	-4.9	-11.1	-5.1	
Audeze LCD-X IF	-4.7	-3.9	-0.3	0.1	0	-0.3	-0.3	-0.1	-0.3	-0.5	-0.2	-0.4	0	-0.3	0.1	-0.5	0	0	-0.7	1.3	3.5	5.3	6.2	4.7	4.5	0.9	-3.1	0.5	-3.1	-4	-4	
Audio-T M40x Rt	-0.3	1.2	2.7	3.8	4.3	4.2	3.2	3.7	4.3	2.9	1.1	-1.6	-3.8	-3.7	-3.2	-2.2	-1.4	0	2.2	3.8	5.3	7.2	8.3	6.1	3.4	0.9	7.7	4.6	-1.1	1.3	-9.1	
Audio-T M40x Or	-14.5	-11.4	-8.1	-4.9	-2.1	-1.3	0.5	1	2.7	2.4	2.5	1.6	-0.3	-1.3	-1.4	-0.1	0.1	0	2.1	3.8	5.6	8.3	9.6	9.4	6.7	6.5	8.8	2.3	-2.6	-5.8	-8	
Audio-T M50x Or	-7.8	-4.9	-2	0	0.3	0.2	-0.4	0.8	0.6	0.6	-0.3	-3	-3.5	-2	-0.7	-0.2	-0.1	0	1.2	2.7	6.3	10.6	11.2	10.7	7.1	3.6	8.6	-0.3	3.2	3.7	-9.2	
Audio-T M50x Cr	3.8	5.1	5.4	6.4	5.7	4.4	3.3	2.1	2.5	1.8	-0.7	-2.7	-3.4	-1.5	-0.5	0.1	0.8	0	0	1.5	6.6	10.5	9.8	7.8	3.1	3.8	3.6	-0.5	-3.2	-1.2	-11.2	
AudioQ Nighthawk IF	8.4	8.3	8.2	8	7.8	7.4	7.4	8.4	8.1	7.9	8.3	8.1	7.6	6.6	5.7	3.4	1.8	0	1.6	5.2	5.8	5.6	8.4	5	2.1	3.9	4.6	5	-1.9	-6	-0.6	
Beats Solo HD IF	8.4	8	7.4	6.5	4.7	0.5	9	7	5.5	4	1.9	1	0	-3.7	-3.9	-2.2	-0.8	0	0.3	0	0.2	1.5	5.1	4.8	0.5	-10.5	-11.5	-8.5	-15.5	-19.5	-19.5	
Beats Solo3 Wireless Rt	10	10	10	9.5	9.5	9.5	9	9	8.5	8	7	5	2	1	0.5	-0.5	-1	0	2	4.5	7	10	14	9	7	6	7	2	-3	-8	-13	
bey DT 770/80 Or	-9.2	-7.3	-5.9	-5.1	-5.3	-5.3	-7	4.8	7.3	4.6	3.2	2.2	1.4	0.8	0.2	-0.2	-0.2	0	1.5	3.7	7.3	8.3	6	2.3	2.5	4	5.9	-2.3	1.7	-9.9	-20.6	
bey DT 770/250 Or	5.8	6.5	7	7.2	7	6.2	3.8	-2.7	2.4	-0.2	-6.4	-6.1	-4	-2.9	-2.3	-2.3	-1.4	0	-0.8	1.2	3.9	6.6	3.4	6.1	6.1	9.2	5	-0.9	4.3	-1.7	-10.8	
bey DT 880/250 IF	-5.3	-4.1	-2.6	-2	-1.2	-0.5	-0.7	0.3	0.4	0.6	0.8	0.8	0.6	0.4	0.5	0	0.2	0	0	1.1	3.2	5.6	9.6	6.8	2.8	4.7	4.1	3.9	-4.8	-13.8	-3.4	
bey DT 990/250 Or	-2.8	-1.4	0	1.3	2.3	2.9	3.1	2.5	2.6	2	1.3	0.2	-0.9	-1.9	-1.7	-2.1	-1.9	0	1.6	2.8	5.2	8.8	10.7	10.5	10.1	10.8	11.5	4.2	7.1	2.4	-3.1	
bey DT 1770 L pads Rt	5.7	6.1	5.8	5.1	4.2	5.3	7.1	7.6	7.8	6	1.3	-2.7	-1.4	-0.4	-0.1	-0.4	-0.3	0	0.2	-0.1	-0.1	2.1	2.7	0.5	1.1	5.9	5.6	0.1	-4.5	-18.6	-26.4	
bey DT 1990 A pads Or	-2.2	-1.6	-1	-0.5	0	0.3	0.5	0.6	0.8	1.2	1.2	1.3	1.1	0.8	0.5	0.2	-0.1	0	1.3	3.3	5.1	8	7.8	4.1	6.9	5.9	12.7	1	1.7	1.8	-13.5	
Creative Aur Live 2 IF	4.7	5.4	5.8	6	6	5.7	4.8	4.9	4.4	3.8	3.6	2.9	1.7	-0.7	-0.3	0.2	0.8	0	-1.2	-2.8	-2.4	0.3	1.9	2.7	-1.4	-3	-2.3	2.1	-12.1	-8.5	-9.2	
DCA Aeon CI v1 Or	0.9	1	1.2	1.3	1.3	0.3	0.6	0	-1.3	-2.8	-1.5	-1	-0.7	-0.7	0.4	0.9	1.2	0	1.4	2.3	2.4	4.3	6.7	6.3	1.7	2.3	3.7	-2.5	-2.8	-14	-9	
DCA Aeon CI v2 Or	5.1	5.4	5.6	5.4	5.2	4.6	4.4	5.4	4.7	1.9	0	1.2	1.9	2.2	1.5	0.8	0.6	0	1.4	0.7	1.7	3.3	4.2	3.1	5.6	7.1	4.4	-8.6	-0.4	-0.1	-2.9	
Focal Clear Or	-4	-3.3	-2.7	-2.2	-1.9	-1.6	-1.5	-1.5	-1.7	-2	-2.3	-2.6	-2.7	-2.8	-2.7	-2.3	-1.3	0	2.1	2.8	3.2	5.1	7.4	2.5	1.9	0.9	-4.4	-10.2	-2	-5.6	-13.4	
Focal Elear Or	-2.5	-1.5	-1.1	-0.6	-0.4	-0.3	-0.1	-0.2	-0.3	-0.6	-0.8	-1.1	-1.3	-1.4	-1.3	-1	-0.4	0	0.9	2.5	1.9	4.1	4.5	-0.4	-1.6	0.5	-6.9	-8.9	-9.7	-13.3	-13.5	
Focal Elear Rt	-7.5	-6.2	-4.8	-3.3	-2.2	-1.2	-0.6	-0.5	-0.4	-0.6	-1.1	-1.6	-1.8	-2	-1.8	-1.5	-0.8	0	1.3	3.1	4.8	7.2	7.9	-2.4	-4	0.2	2.7	-6.4	-4.2	-6.9	-3	
Focal Elegia Or	-0.1	0	-0.1	-0.7	-0.8	-0.9	1.2	1.5	-2.8	-3.6	-3.3	-2.1	-1.2	-1.1	-0.8	-0.9	-0.5	0	0.5	3.1	2.7	5.5	4	-6.8	-3.1	0.1	0.1	-8.9	-2.9	-10.6	-8.5	
Focal-Drop Elex Or	-3	-2.1	-2.1	-1.5	-1.2	-0.9	-0.8	-0.8	-1	-1.4	-1.7	-2.1	-2.4	-2.5	-2.4	-2.1	-1.2	0	1.9	2.5	1.8	3.8	6.8	5.5	4.6	1.						