

Room Curve in Rephase

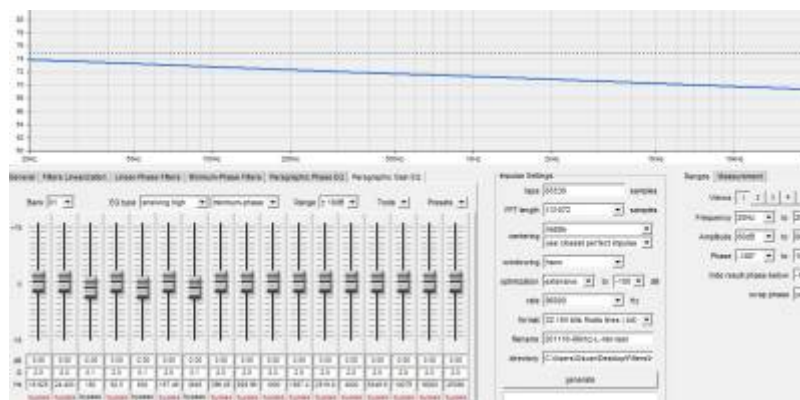
Adding Room Curve

The best solution is acoustic treatment. But sometimes you can only do limited acoustic correction at home (e.g. due to budget, the WAF). Even if you do an acoustic treatment that improves listening, this treatment is not necessarily perfect, and a target curve can further improve the defects that remain.

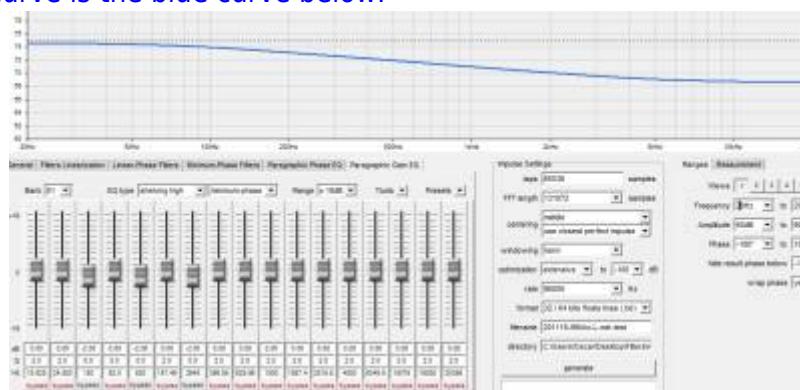
With only 3 corrections you can easily obtain a rather linear target curve. The intervention frequencies are 150, 630 and 2645 Hz. $630/150 = 4.20$, $2645/630 = 4.20$, constant difference in octave between the 3 frequencies. 630 Hz is the midpoint in octave between 20 and 20,000 Hz: $\text{root}(20 * 20,000) = 632.5$ Hz.

I use bank 1 for linearizing the frequency response with EQ correction and bank 2 for setting the target curve. In bank 2 set the EQ type to **"Shelving High"**, minimum phase, Q = 0.1 for the 3 corrections. The target curve is presented in a 1/2 octave bank. You can do it in 1/3 octave with the Presets: "flat 1/3 oct mid freq". There are no other changes.

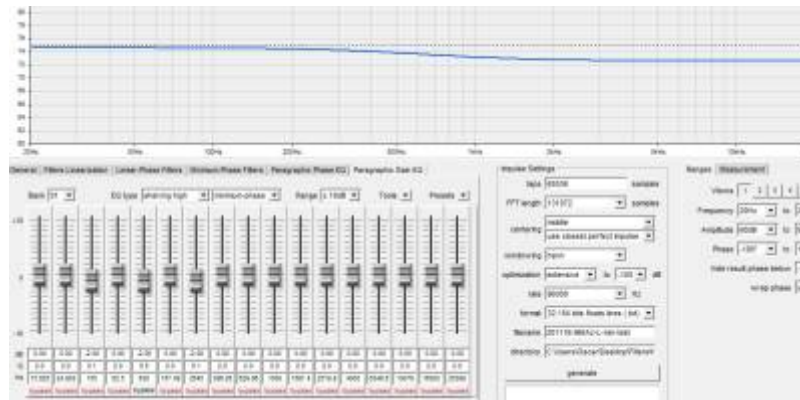
Linear curve: 3 corrections at 150, 630 and 2645 Hz, Q = 0.10, gain = -2.0 dB. The target curve is the blue curve below.



S-curve with Bass preference, high reduction 3 corrections at 150, 630 and 2645 Hz, Q = 0.50, gain = -2.0 dB. The target curve is the blue curve below.



S-curve with less bass preference, high reduction 1 correction at 630 Hz, Q = 0.50, gain = -2.0 dB. The target curve is the blue curve below.



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