The Generic Equaliser is a software EQ that runs at the sample rate of the measurement it is applied to. It supports a full range of filters and filter settings (peaking = parametric, 1st and 2nd order low pass & high pass including adjustable Q 2nd order variants, low shelf and high shelf including adjustable Q variants, notch and all-pass) based on the Robert Bristow-Johnson 'Cookbook' equations. It also offers a pair of crossover filters with Bessel, Butterworth or Linkwitz-Riley characteristics up to 8th order.

For the Peaking filters the bandwidth in Hz between the half gain points is given by:

Bandwidth = centre frequency/Q

The Generic setting allows 20 parametric filters. The adjustment ranges are:

A white box with black text

Description automatically generated

Rephase equalizer

The rePhase equaliser setting supports parametric filters only. It allows up to 17 filters per channel. The *Save filter settings to file* action writes the filter settings to a file in a format suitable for use with the rePhase software. The parametric filter bandwidth in Hz between the half gain points is given by:

Bandwidth = sqrt(gain)\*centre frequency/Q

where gain is from the absolute value of the dB figure so always >= 1. The adjustment ranges are:

A white rectangular box with black text

Description automatically generatedATTENZIONE\_FORMATO:

Il formato .fir non è disponibile dall’esportazione da rePhase.

Da rew a rephase:

usa rephase equalizer, salva da save filter settings into file, formato .xlm, da rePhase in Parametric Gain eq, in tool, importa da rew (formato .xlm).

da forum:s

I saved them as 32-bit IEEE-754 mono .bin files, and dropped them into a miniDSP OpenDRC 2×2

Leggi innosonics manual

<https://www.roomeqwizard.com/betahelp/help_en-GB/html/eqwindow.html>

Impulsi da correggere dalla generazione dei segnali gain +tweeter switched: Virtual\_Room\_PreDist\_SingleSpeakerGainTunedMeasureType\_1\_20231110

Quindi segnale predistorto e configurazione stanza invariata. PERCHE’ SEGNALE PREDISTORTO!?

Prova: cassa 5, target level calculated from response

PROCEDURA:

* Euqlizer generic: deve essere compatibile con innosonix, provare
* Fit target levelo to IR for the l.s. number 1== tutti gli altri allo stesso livello: 34,9 dB SPL.
* Target cutoff LF: 80 Hz as crossover points
* LF slope 12 dB per octave as crossover of the morels
* 6 cb per individual boost
* 0 db max boost
* Generate measurement from filter
* Export IR as wav, default settiings
* Devono essere 2042 (o 2048) samples, taglia 250 circa prima del picco su matlab e salba in 32bitxsamples poi verifica se la convoluzione da risposta piatta

Fattore di differenza 17.19: target level (1) + 17.19=81 db

Phase:

Trova differenze di sample dal massimo picco assoluto rispetto al max peak della cassa 5 (che è quella più diretta e chiara)

Una volta fatto il filtro copia e convolvi con sweep registrata, ti viene fuori la risposta

ESEMPIO CASSA 6 POSIZIONE LEFT

PK Fc 142.5 Hz Gain -1.70 dB Q 14.141

PK Fc 321.0 Hz Gain -1.10 dB Q 8.766

PK Fc 390.0 Hz Gain -2.80 dB Q 8.791

PK Fc 708.0 Hz Gain -7.10 dB Q 7.738

PK Fc 869.0 Hz Gain -1.50 dB Q 7.364

PK Fc 1028 Hz Gain -3.00 dB Q 7.088

PK Fc 1611 Hz Gain -3.30 dB Q 6.267

PK Fc 1763 Hz Gain -2.20 dB Q 6.106

PK Fc 1947 Hz Gain -2.70 dB Q 5.821

PK Fc 2144 Hz Gain -1.20 dB Q 5.026

PK Fc 2313 Hz Gain -5.40 dB Q 4.471

PK Fc 3762 Hz Gain -1.60 dB Q 4.585

PK Fc 3994 Hz Gain -2.90 dB Q 3.782

PK Fc 6994 Hz Gain -1.60 dB Q 3.650

