E X P E R T PRO

A U D I O P H I L E E V O L U T I V E S Y S T E M

Sweet Room for DEVIALET's Expert Pro

Basic EQ

To use the basic EQ. Provide the Name for this EQ configuration, and start by applying a simple cut on a frequency on both channels, using :
syntax:"EQ_x_L":[Frequency, dB_gain, Q_factor] for left channel
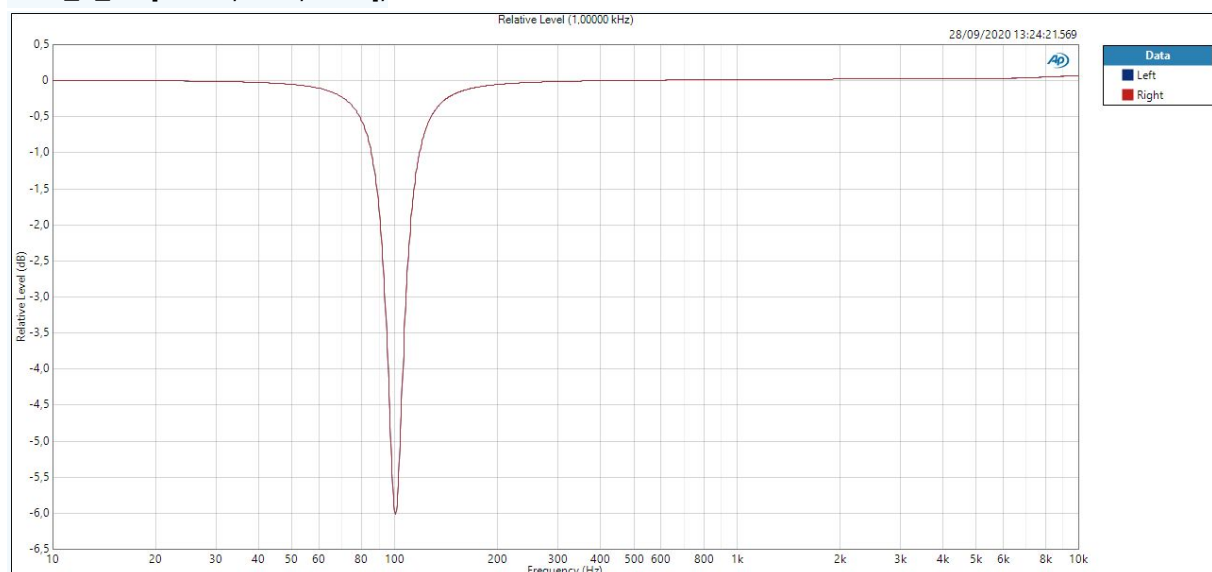syntax:"EQ_x_R":[Frequency, dB_gain, Q_factor] for right channel

Example :

// Provide the Name
"NAME":"LEVEL1",

// 6dB cut for both channels @ 100Hz
"EQ_1_L":[100.0, -6.0, 10.0],
"EQ_1_R":[100.0, -6.0, 10.0],

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Intermediate EQ

Now let us pursue with the Intermediate EQ.
Again let's provide the Name for this EQ configuration, and start by applying the same simple cut on a frequency on both channels, using:
syntax:"EQ_x_L":[Frequency, dB_gain, Q_factor] for left channel
syntax:"EQ_x_R":[Frequency, dB_gain, Q_factor] for right channel

And continue by boosting a specific frequency on the left channel, using:
syntax:"EQ_x_L":[Frequency, dB_gain, Q_factor] for left channel

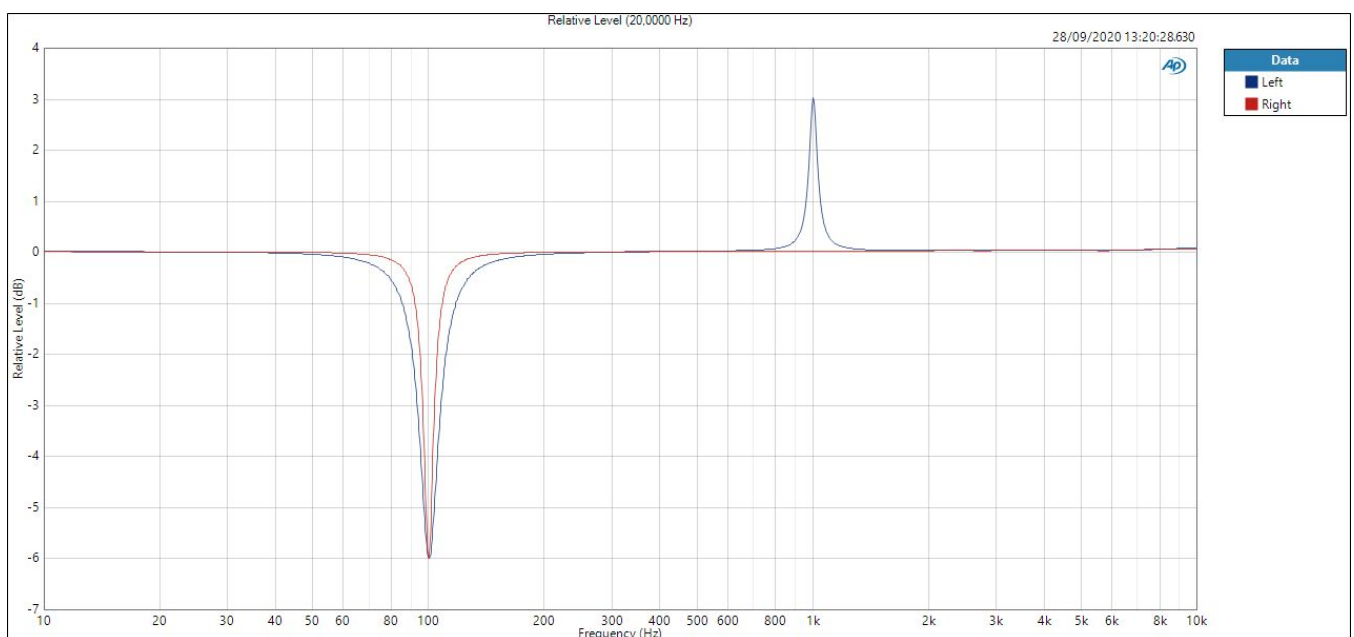Example :

// Name for this EQ configuration
"NAME":"LEVEL2",

// syntax:"EQ_x_L":[Frequency, dB_gain, Q_factor] for left channel
// syntax:"EQ_x_R":[Frequency, dB_gain, Q_factor] for right channel
"EQ_1_L":[100.0, -6.0, 10.0],   // 6dB cut @ 100 Hz, Q = 10 on the left channel
"EQ_1_R":[100.0, -6.0, 20.0],   // 6dB cut @ 100 Hz, Q = 20 on the right channel
"EQ_2_L":[1000.0, 3.0, 20.0],   // 3dB boost @ 1000 Hz, Q = 10 on the left channel

Advanced EQ

Now the Advanced EQ.

We will begin by applying a general static dB gain using the following code:
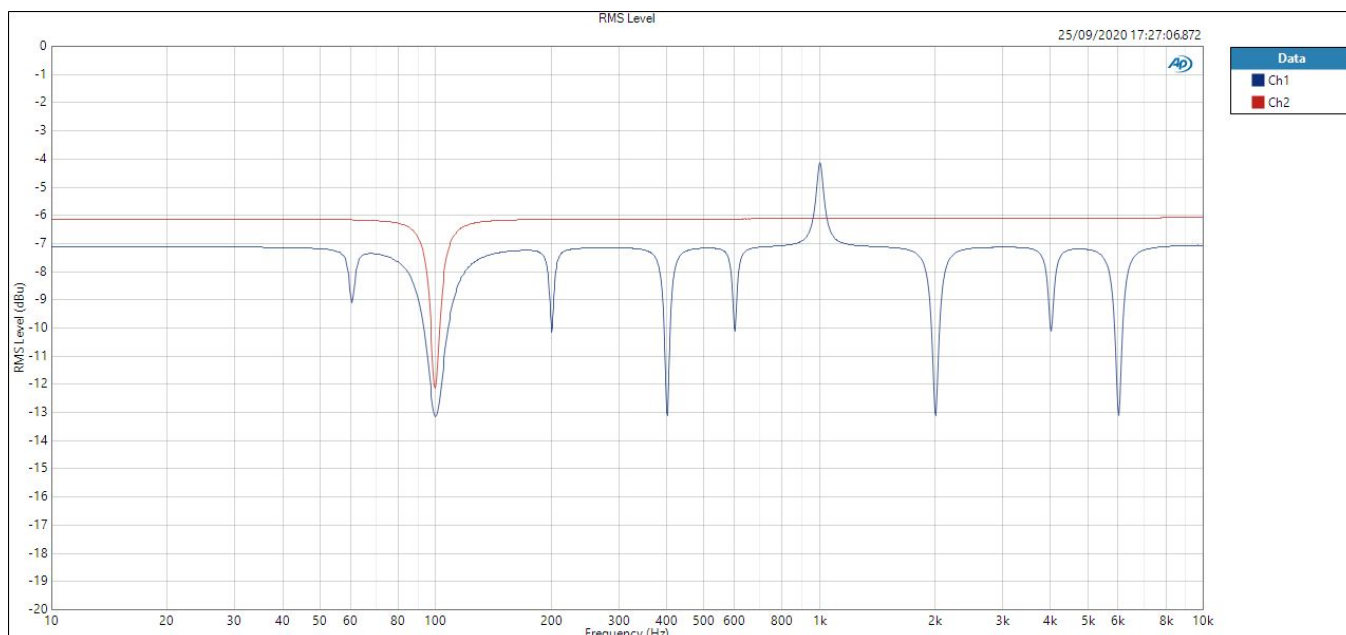
syntax:"dB_GAIN_L":"Gain value" for the left channel
syntax:"dB_GAIN_R":"Gain value" for the right channel

Again let's provide the Name for this EQ configuration, and continue to apply different cut on multiple frequency on both channels, using the same script:
syntax:"EQ_x_L":[Frequency, dB_gain, Q_factor] for left channel
syntax:"EQ_x_R":[Frequency, dB_gain, Q_factor] for right channel

Example :

```
// Name for this EQ configuration
"NAME":"LEVEL3",

// Static dB gain
"dB_GAIN_L":"-1.0",          // main gain (flat) for the left channel
"dB_GAIN_R":"0.0",          // main gain (flat) for the right channel

// syntax:"EQ_x_L":[Frequency, dB_gain, Q_factor] for left channel
// syntax:"EQ_x_R":[Frequency, dB_gain, Q_factor] for right channel
"EQ_1_L":[100.0, -6.0, 10.0],          // 6dB cut @ 100 Hz, Q = 10 on the left channel
"EQ_1_R":[100.0, -6.0, 20.0],          // 6dB cut @ 100 Hz, Q = 20 on the right channel
"EQ_2_L":[1000.0, 3.0, 20.0],          // 3dB boost @ 1000 Hz, Q = 20 on the left channel
"EQ_3_L":[60.0, -2.0, 30.0],          // 2dB cut @ 60 Hz, Q = 30 on the left channel
"EQ_4_L":[200.0, -3.0, 40.0],          // 3dB cut @ 200 Hz, Q = 40 on the left channel
"EQ_5_L":[400.0, -6.0, 40.0],          // 6dB cut @ 400 Hz, Q = 40 on the left channel
"EQ_6_L":[600.0, -3.0, 40.0],          // 3dB cut @ 600 Hz, Q = 40 on the left channel
"EQ_7_L":[2000.0, -6.0, 30.0],          // 6dB cut @ 2000 Hz, Q = 30 on the left channel
"EQ_8_L":[4000.0, -3.0, 30.0],          // 3dB cut @ 4000 Hz, Q = 30 on the left channel
"EQ_9_L":[6000.0, -6.0, 30.0],          // 6dB cut @ 6000 Hz, Q = 30 on the left channel
```

Extreme EQ

Let's finish with the Kolossal EQ.

Taking into account everything we have seen before and adding an alternate EQ. With the possibility to allow to the bottom's right button of Expert Pro remote the possibility to toggle between the main and alternate EQ.
This is very helpful during EQ fine-tuning or to conduct A/B tests.
We will do this using the following code :

syntax:"REMOTE",

For alternate general static dB gain on left and right channel, we will use this code:
syntax: "dB_GAIN_L_ALT":"Gain value" for the left channel
syntax: "dB_GAIN_R_ALT":"Gain value" for the right channel

For alternate simple cut on a frequency on both channels, we will use:
syntax:"EQ_x_L":[Frequency, dB_gain, Q_factor] for the left channel
syntax:"EQ_x_R":[Frequency, dB_gain, Q_factor] for the right channel

Now let's create both EQ preset with one main and one optional, using everything we have seen !

Example :

```
// Name for this EQ configuration
"NAME":"LEVEL4",

// Remote indicator
// Allow for the bottom's right button to toggle between main and alternate set of EQs
// Useful in A/B tests or during fine EQ tuning
"REMOTE",

// Parameters for left channel
// Static dB gain for the left channel
"dB_GAIN_L":"-1.0",          // main gain
"dB_GAIN_L_ALT":"-2.0",     // alternate gain

// Peak/Notch filters for the left channel (main)
// syntax:"EQ_x_L":[Frequency, dB_gain, Q_factor]
"EQ_1_L":[200.0, 2.0, 5.0],
"EQ_2_L":[400.0, -2.0, 5.0],
"EQ_3_L":[800.0, 2.0, 5.0],
"EQ_4_L":[1600.0, -2.0, 5.0],
"EQ_5_L":[3200.0, 2.0, 5.0],
"EQ_6_L":[6400.0, -2.0, 5.0],
"EQ_7_L":[0.0, 0.0, 0.0],
"EQ_8_L":[0.0, 0.0, 0.0],
"EQ_9_L":[0.0, 0.0, 0.0],

// Peak/Notch filters for the left channel (alternate)
// syntax:"EQ_x_L_ALT":[Frequency, dB_gain, Q_factor]
"EQ_1_L_ALT":[150.0, -2.0, 5.0],
"EQ_2_L_ALT":[300.0, 2.0, 5.0],
"EQ_3_L_ALT":[600.0, -2.0, 5.0],
"EQ_4_L_ALT":[1200.0, 2.0, 5.0],
"EQ_5_L_ALT":[2400.0, -2.0, 5.0],
"EQ_6_L_ALT":[4800.0, 2.0, 5.0],
"EQ_7_L_ALT":[0.0, 0.0, 0.0],
"EQ_8_L_ALT":[0.0, 0.0, 0.0],
"EQ_9_L_ALT":[0.0, 0.0, 0.0],

// Parameters for right channel
// Static dB gain for the right channel
"dB_GAIN_R":"0.0",          // main gain
"dB_GAIN_R_ALT":"0.0",     // alternate gain

// Peak/Notch filters for the right channel (main)
// syntax:"EQ_x_R":[Frequency, dB_gain, Q_factor]
```
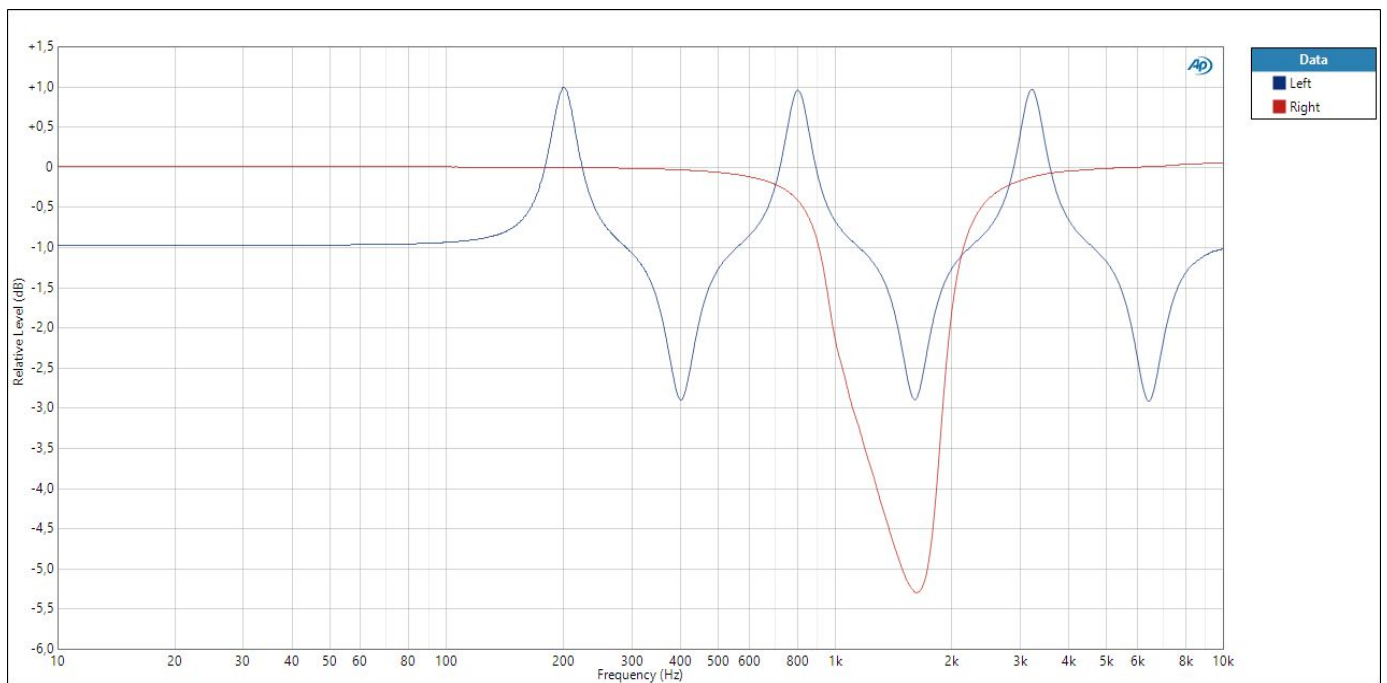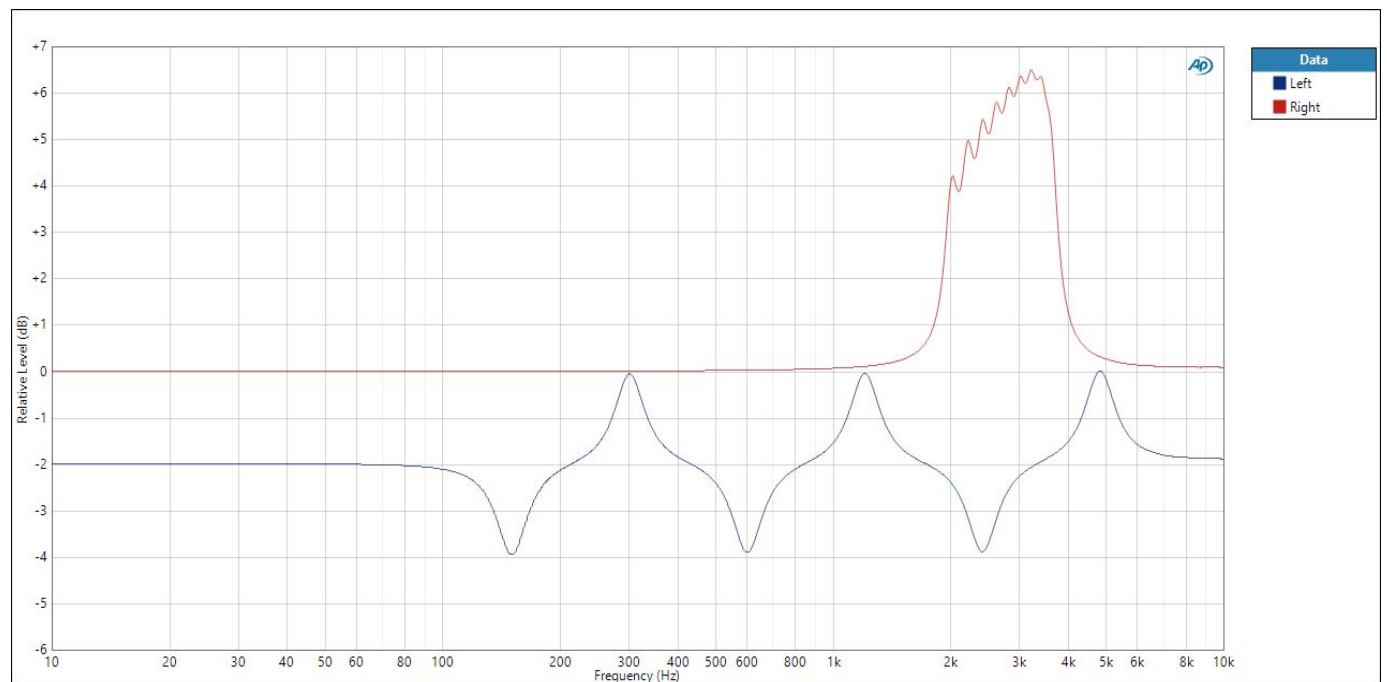
```
"EQ_1_R":[1000.0, -1.0, 6.0],
"EQ_2_R":[1100.0, -1.1, 6.0],
"EQ_3_R":[1200.0, -1.2, 6.0],
"EQ_4_R":[1300.0, -1.3, 6.0],
"EQ_5_R":[1400.0, -1.4, 6.0],
"EQ_6_R":[1500.0, -1.5, 6.0],
"EQ_7_R":[1600.0, -1.6, 6.0],
"EQ_8_R":[1700.0, -1.7, 6.0],
"EQ_9_R":[1800.0, -1.8, 6.0],

// Peak/Notch filters for the right channel (alternate)
// syntax:"EQ_x_R_ALT":[Frequency, dB_gain, Q_factor]
"EQ_1_R_ALT":[2000.0, 3.0, 12.0],
"EQ_2_R_ALT":[2200.0, 3.0, 12.0],
"EQ_3_R_ALT":[2400.0, 3.0, 12.0],
"EQ_4_R_ALT":[2600.0, 3.0, 12.0],
"EQ_5_R_ALT":[2800.0, 3.0, 12.0],
"EQ_6_R_ALT":[3000.0, 3.0, 12.0],
"EQ_7_R_ALT":[3200.0, 3.0, 12.0],
"EQ_8_R_ALT":[3400.0, 3.0, 12.0],
"EQ_9_R_ALT":[3600.0, 3.0, 12.0],
```

Main EQ

Alternate EQ

Sincerely hoping you will enjoy it as we do!

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