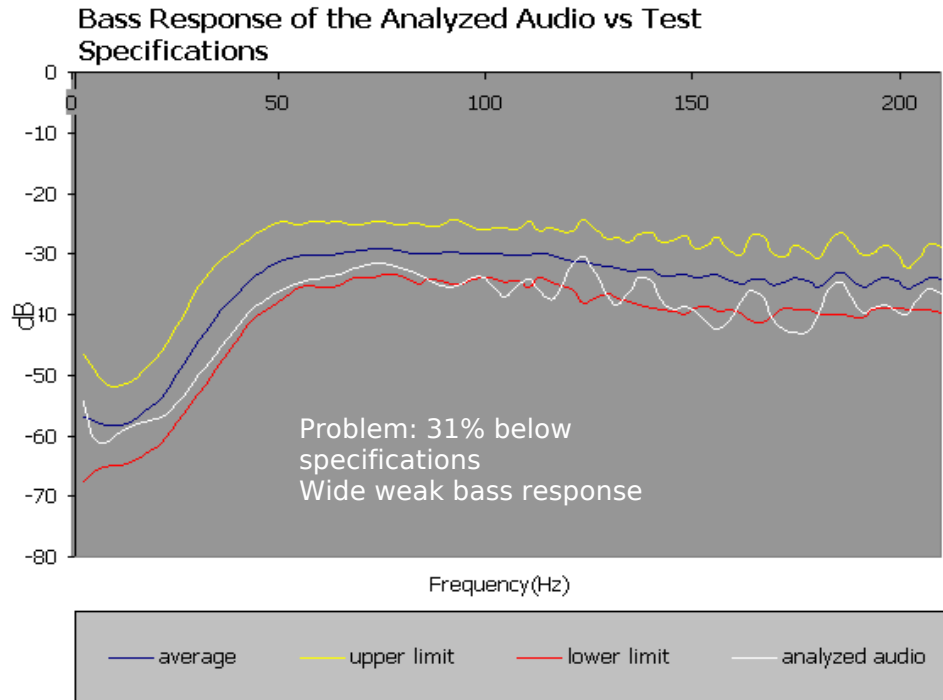


EQ Adjustment Illustration

EXAMPLE 1: Wide Weak Bass Response



Solution:

- 1.) Identify the lower and upper estimated frequency range of the problem by looking at the response plot:

Lower estimated problem frequency = 25Hz

Upper estimated problem frequency = 200Hz

- 2.) Estimate the amount of boost or cut in dB. You can learn some tips here:

(Read EQ Best Practices.pdf in Documentation)

Supposing you will assign a moderate boost to correct this weak bass response.

Gain= +2.0dB (for moderate boost)

- 3.) Go to [APPENDIX G. Center Freq & Q](#) in AudioSpectro FIRE Spreadsheet tool.

You can also use [MY_EQ_ADJUSTMENTS](#) sheet in AudioSpectro FIRE sheet to organize and remember lots of EQ settings.

- 4.) Based on the calculator, it provides the following recommended EQ tweaks:

Center Freq= 113Hz

Q=1.9

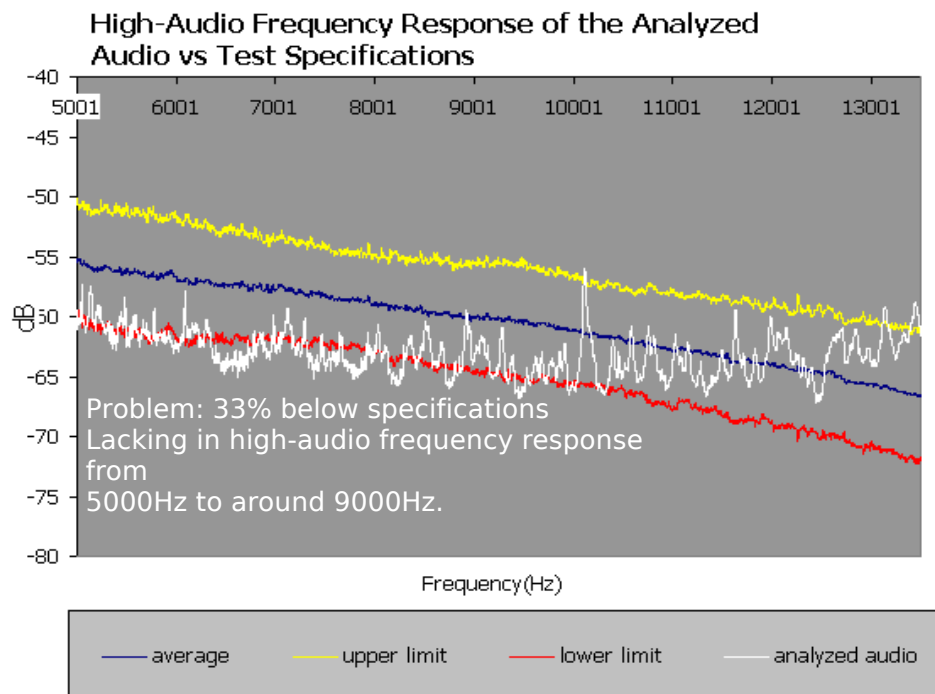
EQ gain= +2.0dB

Output gain= -1.3dB

Implement the center freq, Q adjustment, EQ gain and output gain in your parametric equalizer
(see screenshot below):



EXAMPLE 2: Narrow and Weak Mid-Frequency Response



Solution:

- 1.) Identify the lower and upper estimated frequency range of the problem by looking at the response plot:

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Lower estimated problem frequency = 5000Hz

Upper estimated problem frequency = 9000Hz

2.) Estimate the amount of boost or cut in dB. You can learn some tips here:

(Read EQ Best Practices.pdf in Documentation)

Supposing you will assign a moderate boost to correct this weak mid-frequency response.

Gain= +1.5dB (for moderate boost)

3.) Go to **APPENDIX G. Center Freq & Q** in AudioSpectro FIRE Spreadsheet tool.

You can also use **MY_EQ_ADJUSTMENTS** sheet in AudioSpectro FIRE sheet to organize and remember lots of EQ settings.

4.)Based on the calculator, it provides the following recommended EQ tweaks:

Center Freq= 7000Hz

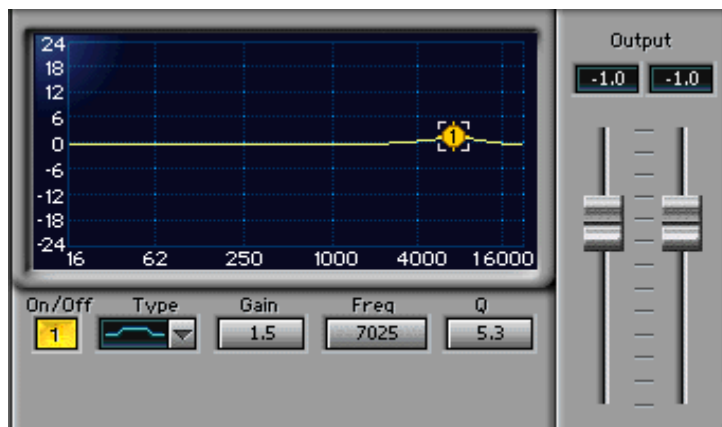
Q=5.3

EQ gain= +1.5dB

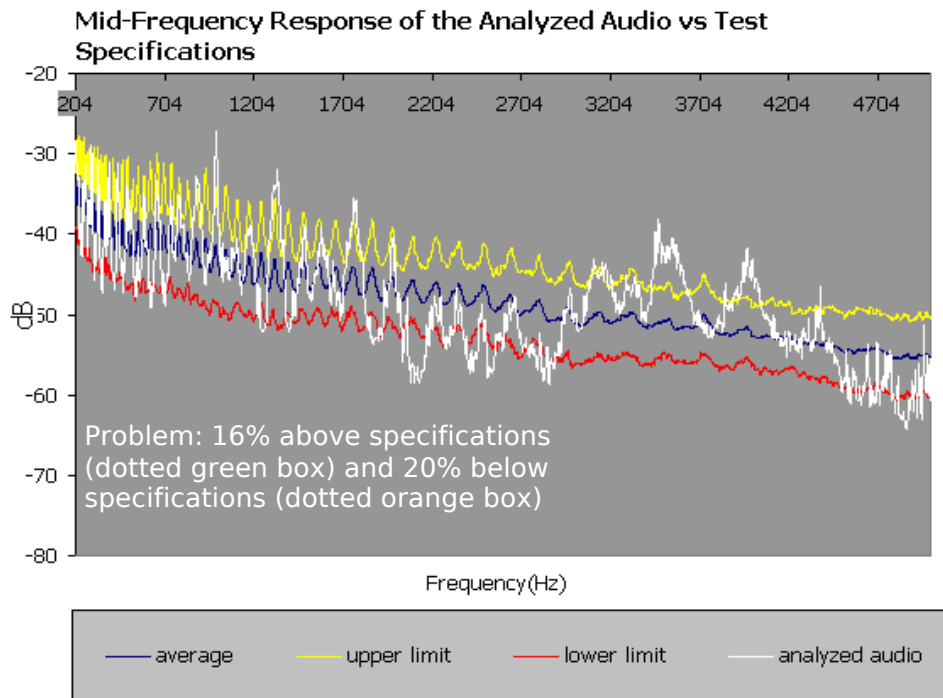
Output gain=-1.0dB

Implement the center freq, Q adjustment and compensation gain on your parametric equalizer

(see screenshot below):



EXAMPLE 3: Extreme Lows and Highs in the Same Frequency Band



Solution:

- 1.) Identify the lower and upper estimated frequency range of the problem by looking at the response plot:

Below Specifications:

Lower estimated problem frequency = 1800Hz

Upper estimated problem frequency = 2800Hz

Above Specifications:

Lower estimated problem frequency = 3200Hz

Upper estimated problem frequency = 4500Hz

- 2.) Estimate the amount of boost or cut in dB. You can learn some tips here:

(Read EQ Best Practices.pdf in Documentation)

Below Specifications:

Supposing you will assign a slight boost to correct the frequency range below specifications.

Gain= +1.5dB (for slight boost)

Above Specifications:

Supposing you will assign a moderate cut to correct the frequency range above specifications:

Gain= -2.0dB (moderate cut)

3.) Go to **APPENDIX G. Center Freq & Q** in AudioSpectro FIRE Spreadsheet tool.

You can also use **MY_EQ_ADJUSTMENTS** sheet in AudioSpectro FIRE sheet to organize and remember lots of EQ settings.

4.)Based on the calculator, it provides the following recommended EQ tweaks:

For correcting below specifications:

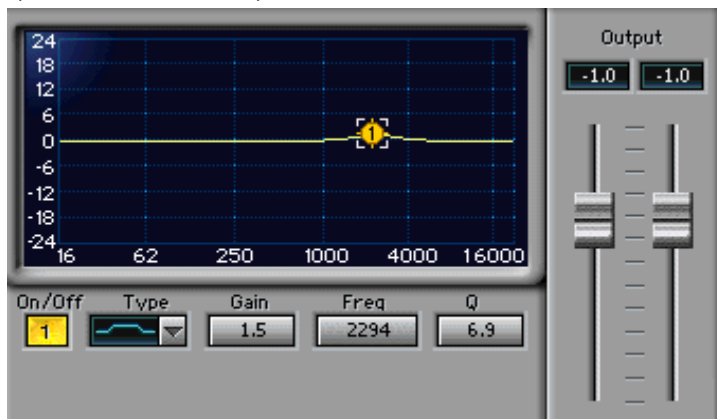
Center Freq= 2300Hz

Q=6.9

EQ Gain=+1.5dB

Output gain= -1.0dB

Implement the center freq, Q adjustment and compensation gain on your parametric equalizer (see screenshot below):



For correcting above specifications:

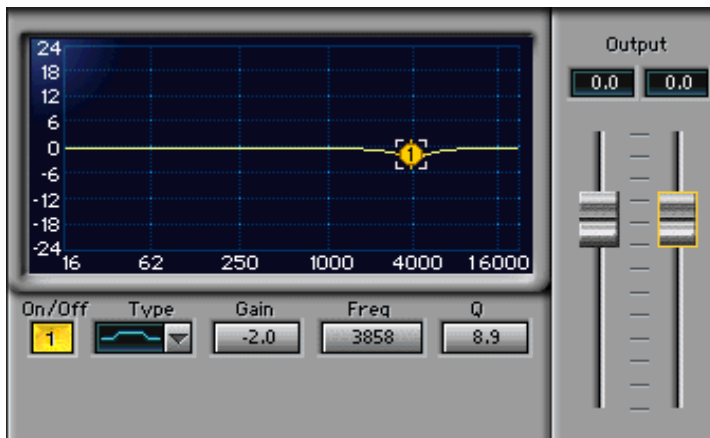
Center Freq= 3850Hz

Q=8.9

EQ Gain= -2.0dB

Output Gain= 0dB

Implement the center freq, Q adjustment and compensation gain on your parametric equalizer (see screenshot below):



NOTE: It is important to use your ear to confirm the accuracy of the adjustments made using this tool.