

Preset 3: Report example

Trinnov Audio

SRP 5242882

Version 3.4.4+

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Calibration microphone v6-mean

Parameters `parameters2.xml`

December 23, 2011

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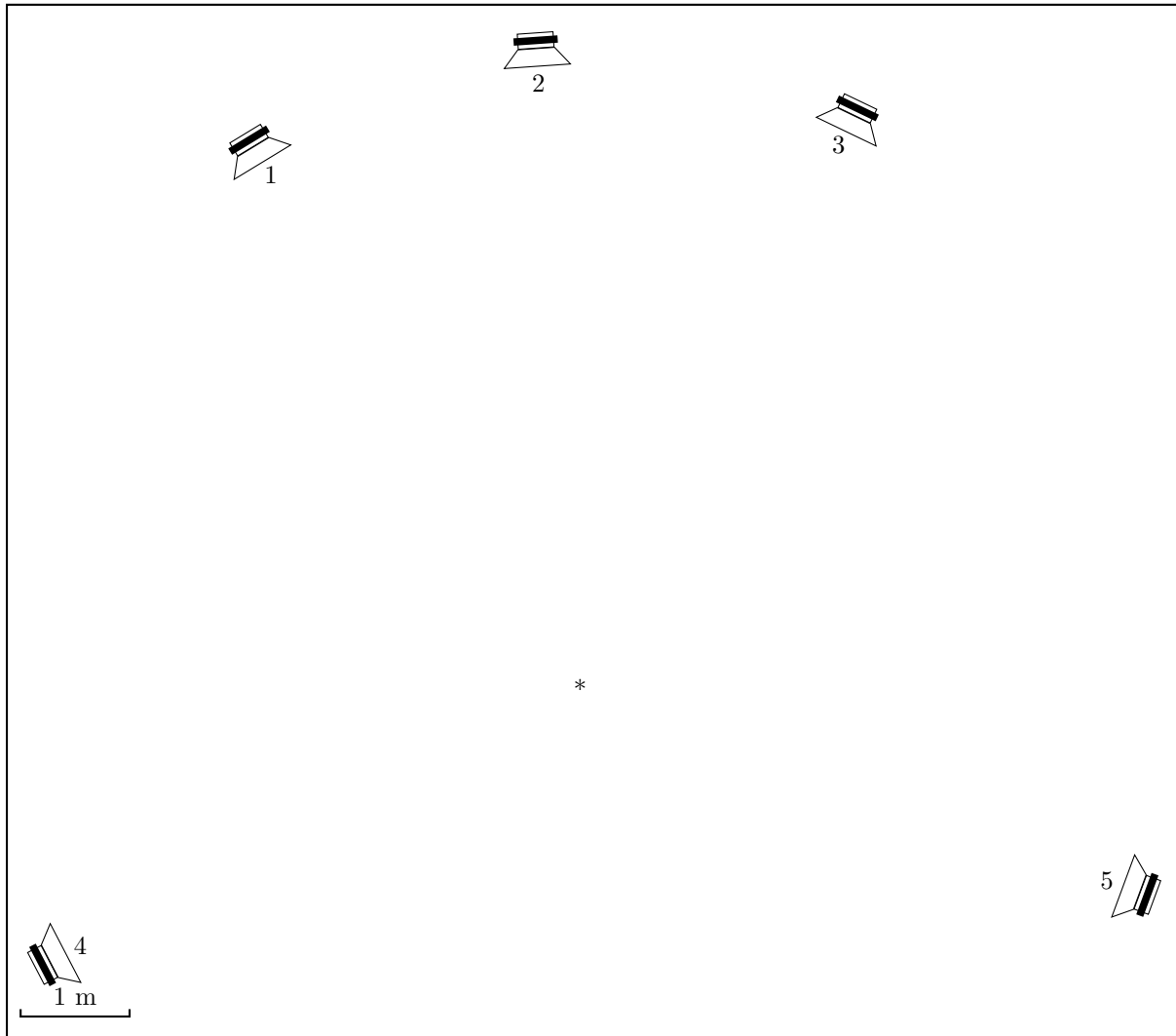
1 Settings

General settings	Sample rate	48000
Acoustics correction settings	Optimize Maximum Boost Maximum Attenuation Quantity of Early Reflections Resolution of Energy Response	Amplitude + Phase 6 dB -10 dB 3 cycles 1/2 oct
Display settings	Display smoothing	1/3 oct
Front and surround speaker options	Early reflections correction on Energy response correction on Delay alignment on Add decorrelation on Remapping on	front & surround front & surround front & surround no speaker front & surround
Advanced acoustic correction settings	Use filters High-Pass filter frequency	FIR+IIR Disabled
Optimize according to LR speakers settings	Processing on LR speakers	IIR Only
FIR and IIR settings	FIR filters length Number of IIR filters IIR filters minimal frequency IIR filters maximal frequency	20 ms 15 20 Hz 300 Hz
Level alignment settings	Weighting used for levels Width of level window Maximum gain on speakers Minimum gain on speakers Minimal bandwidth frequency Maximal bandwidth frequency	dBC Disabled 10 dB -20 dB 10 Hz Unlimited
Subwoofer low-pass filter settings	Cutoff frequency Filter type Filter order Rp value (for elliptic filter) Rs value (for elliptic filter)	Disabled Butterworth 4 0.1 dB 80 dB
Decimation settings	Decimation factor Decimation mode Antialiasing filter order Antialiasing filter cutoff Antialiasing filter Rp Antialiasing filter Rs	1 FIR only 8 19/24 x Fs/2 0.03 dB 100 dB
Advanced FIR settings	FIR reference Number of parts for sponv	Automatic Automatic

Target curves are shown as dotted lines on the *After correction* plot of each speaker. Please note that the curves representing the speaker responses after correction also include the FIR EQ if it is activated, but they do not include any graphic EQ.

2 Speaker layout

2.1 Top view representation



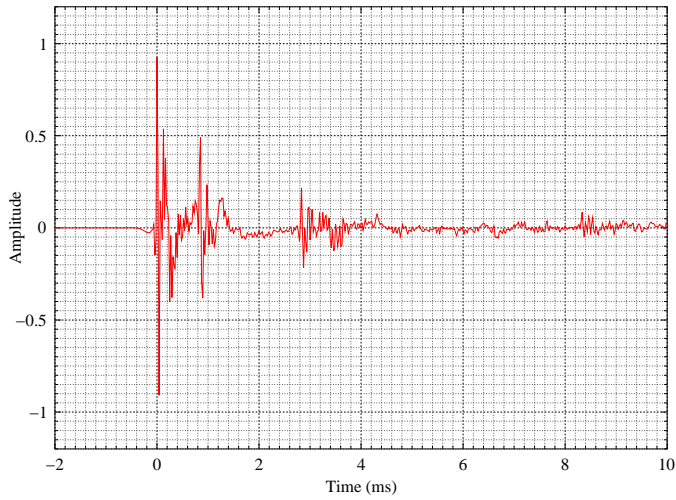
2.2 Speaker Information

Speaker	Distance	Elevation	Azimuth	Level (dBFS, A-weighted)	Delay	Bass Management Delay	Delay Compensation	Polarity ¹	Crest Factor
1	5.87 m	3.8°	31.3°	-54.2 dB	17.10 ms	1.08 ms	11.38 ms	+	34.5 dB
2	5.94 m	3.9°	4.0°	-55.2 dB	17.33 ms	1.08 ms	11.15 ms	+	34.7 dB
3	5.89 m	4.4°	-25.7°	-55.0 dB	17.17 ms	1.08 ms	11.31 ms	+	34.3 dB
4	5.64 m	9.5°	117.5°	-57.2 dB	16.44 ms	1.08 ms	12.04 ms	+	34.9 dB
5	5.60 m	8.0°	-110.3°	-57.4 dB	16.33 ms	1.08 ms	12.15 ms	+	34.6 dB
Sub 1	9.42 m	N/A	N/A	-59.3 dB	27.40 ms	0.00 ms	0.00 ms	-	23.4 dB

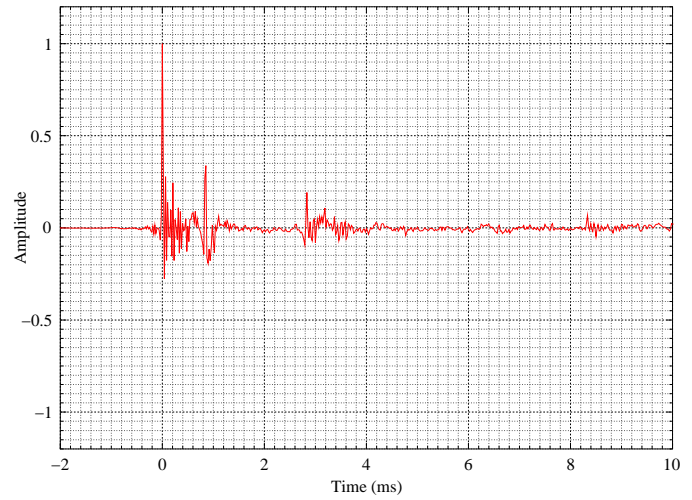
¹In *Amplitude+Phase* optimization mode, speaker polarity is corrected by the phase optimization and is generally not indicated here. In *Amplitude* optimization mode, this column reflects measured polarity, which is corrected separately.

3 Speaker 1 (Loudspeaker at 5.87 m, elevation is 4° , azimuth is 31°)

3.1 Impulse response

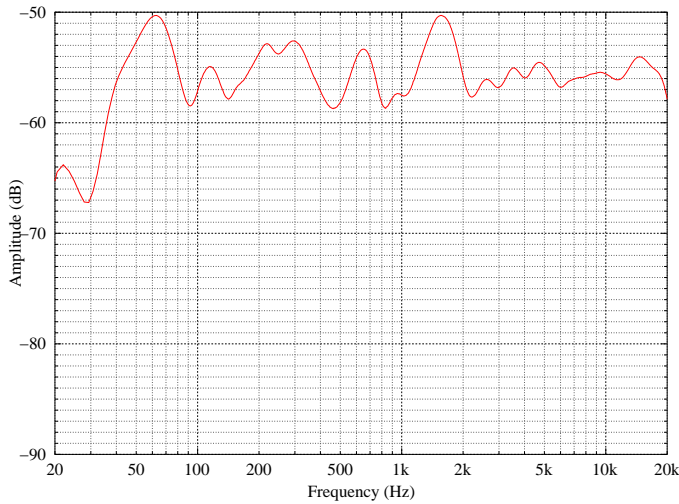


Before correction

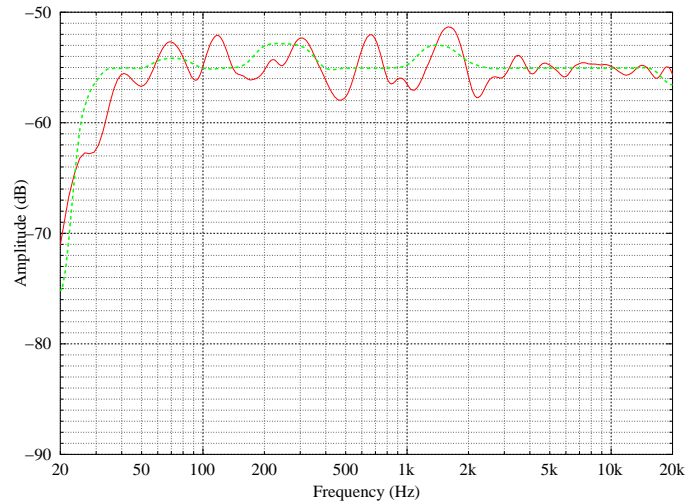


After correction

3.2 Frequency response

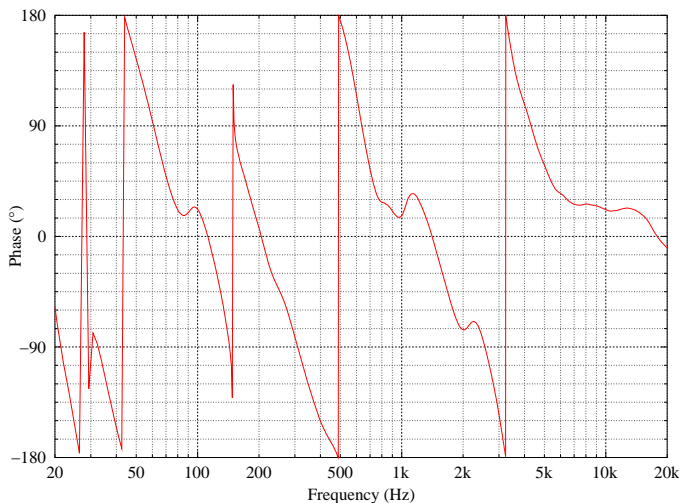


Before correction

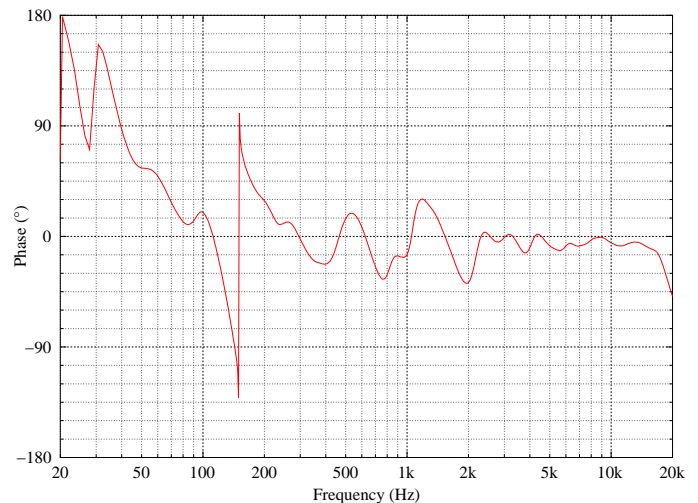


After correction

3.3 Phase response



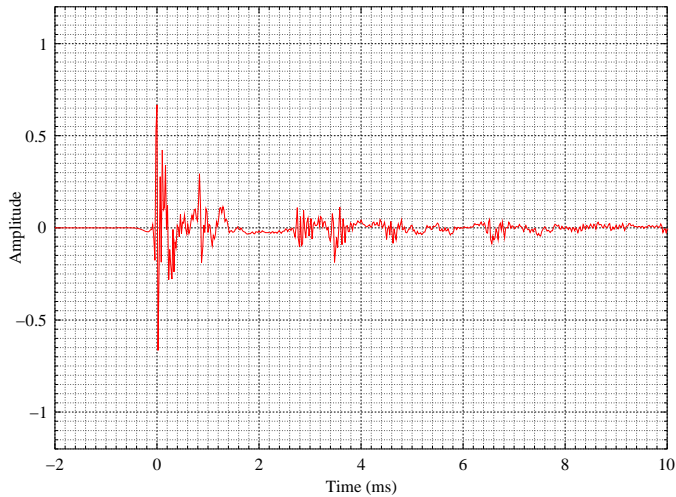
Before correction



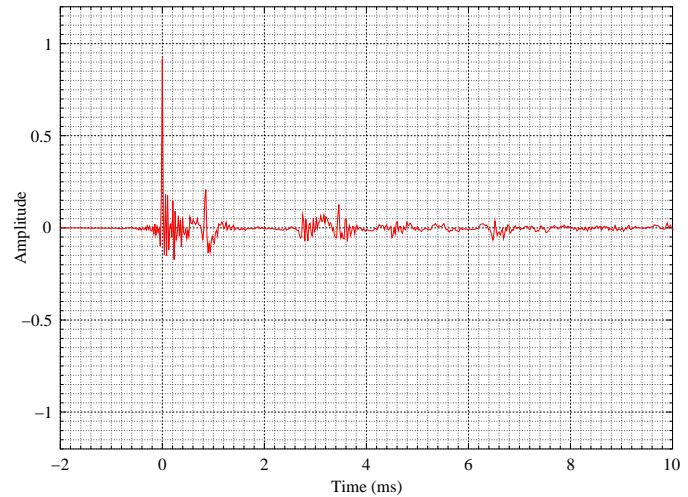
After correction

4 Speaker 2 (Loudspeaker at 5.94 m, elevation is 4°, azimuth is 4°)

4.1 Impulse response

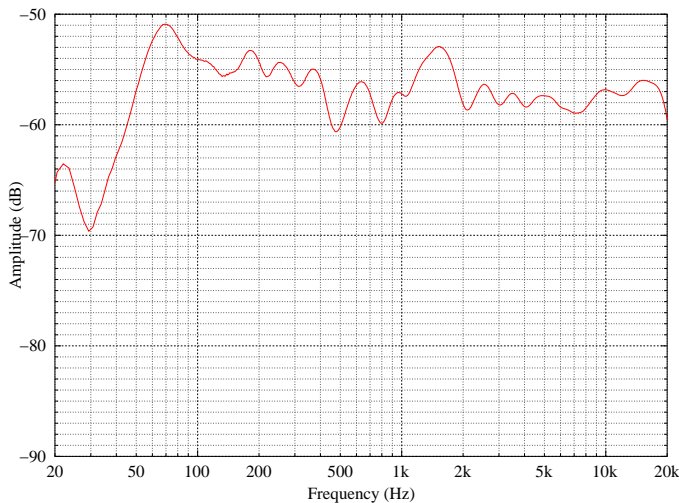


Before correction

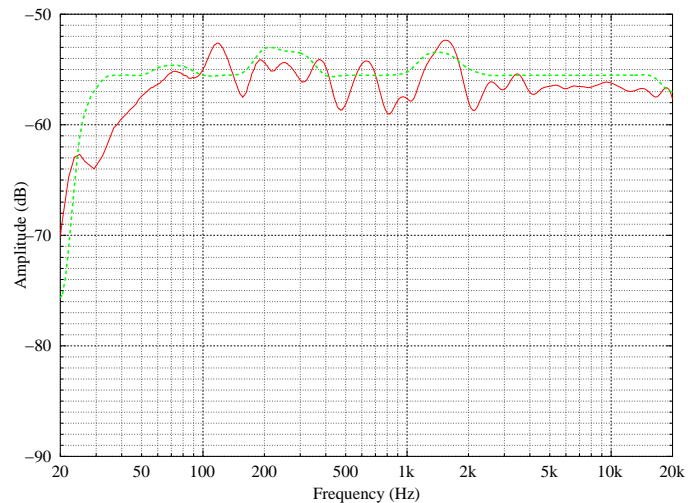


After correction

4.2 Frequency response

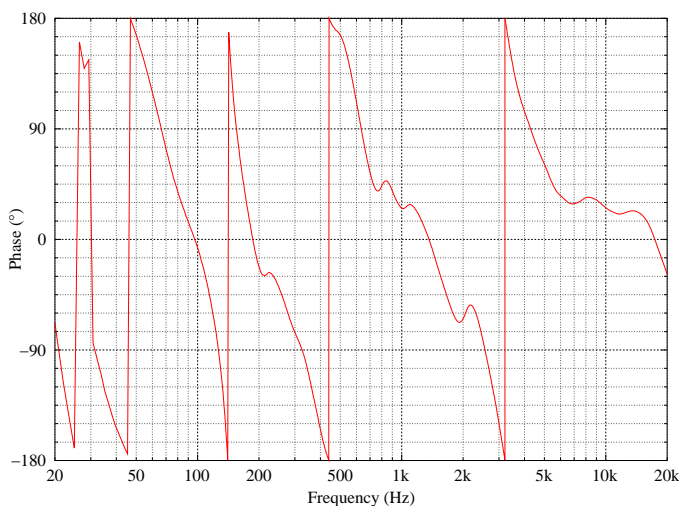


Before correction

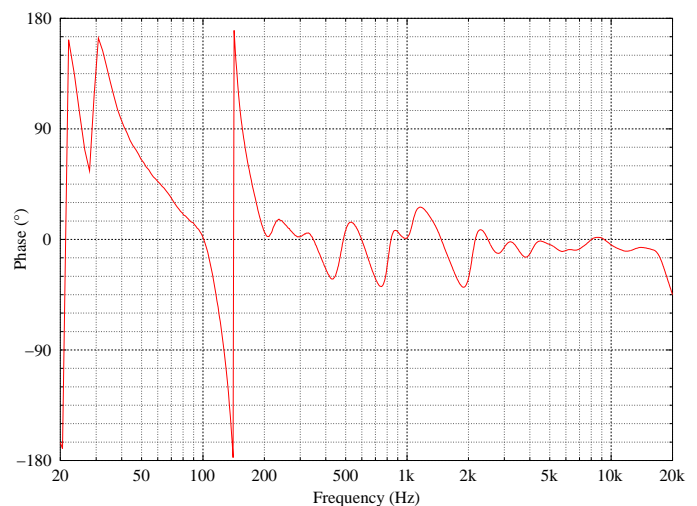


After correction

4.3 Phase response



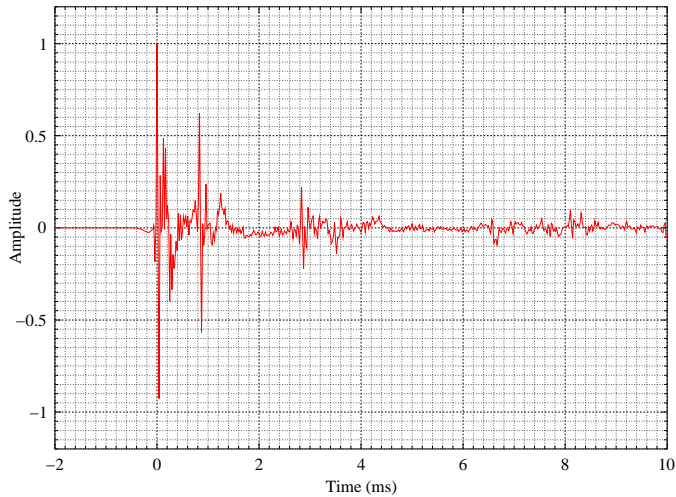
Before correction



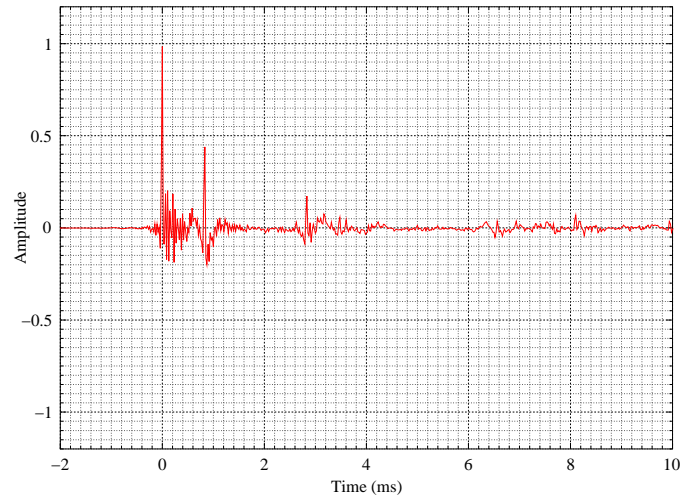
After correction

5 Speaker 3 (Loudspeaker at 5.89 m, elevation is 4° , azimuth is -26°)

5.1 Impulse response

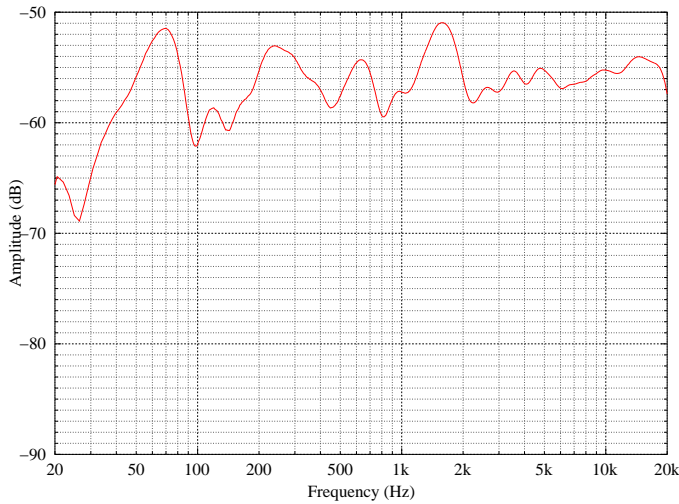


Before correction

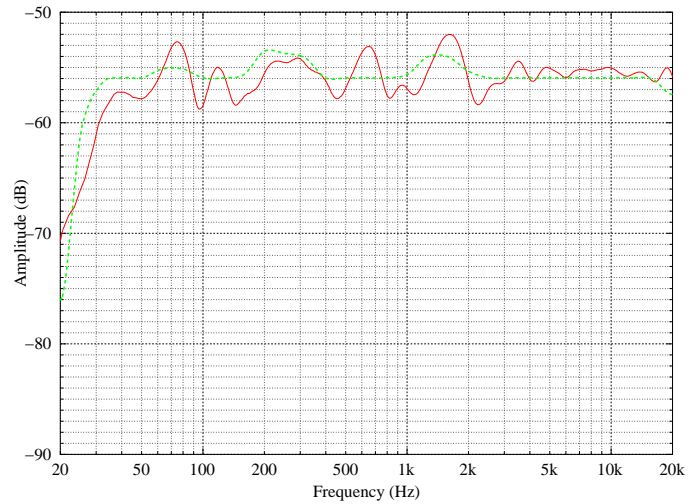


After correction

5.2 Frequency response

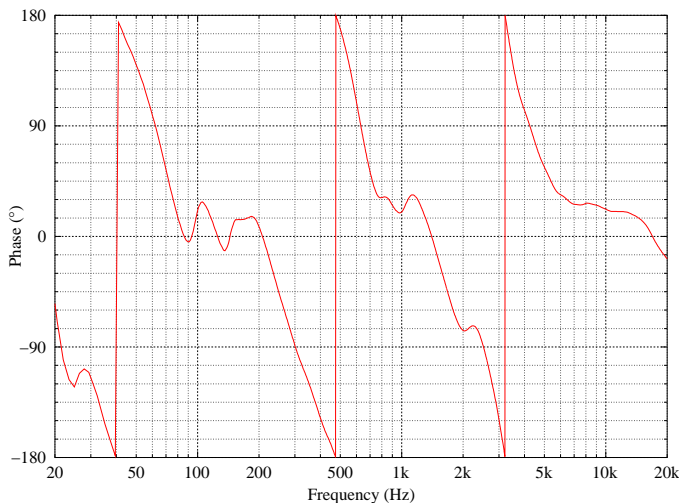


Before correction

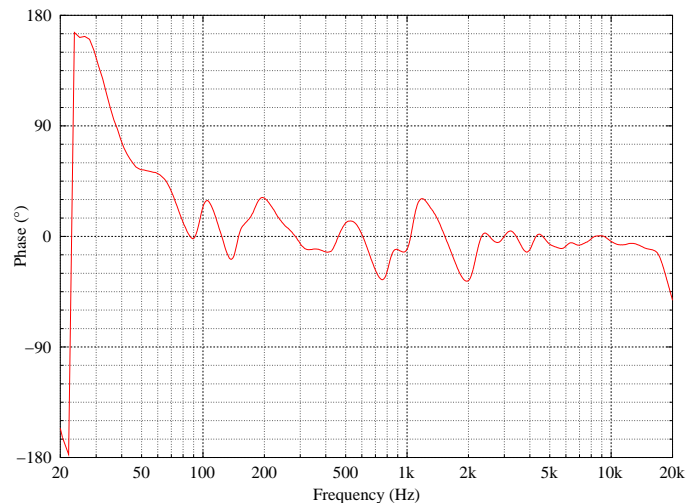


After correction

5.3 Phase response



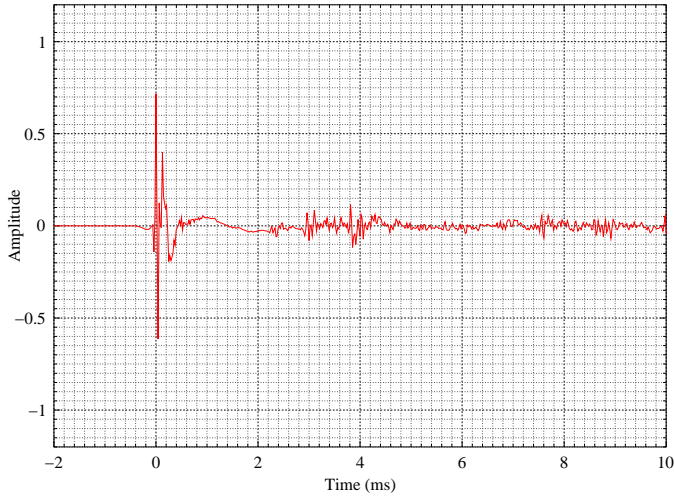
Before correction



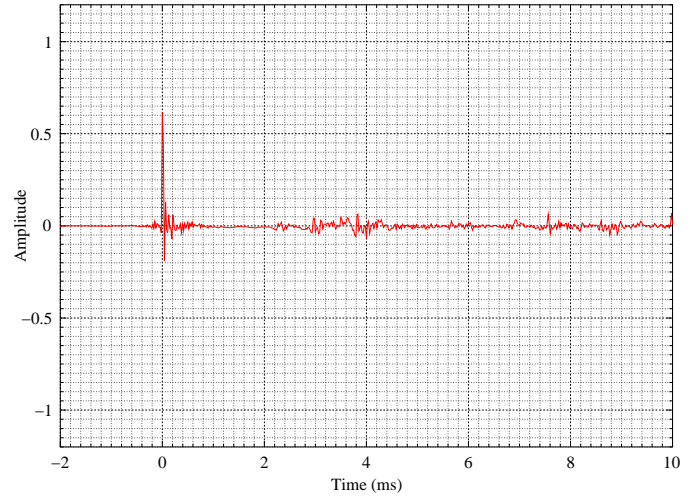
After correction

6 Speaker 4 (Loudspeaker at 5.64 m, elevation is 10° , azimuth is 117°)

6.1 Impulse response

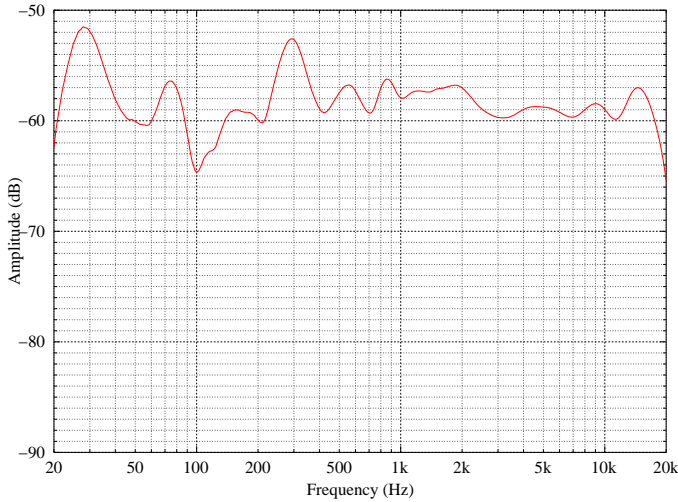


Before correction

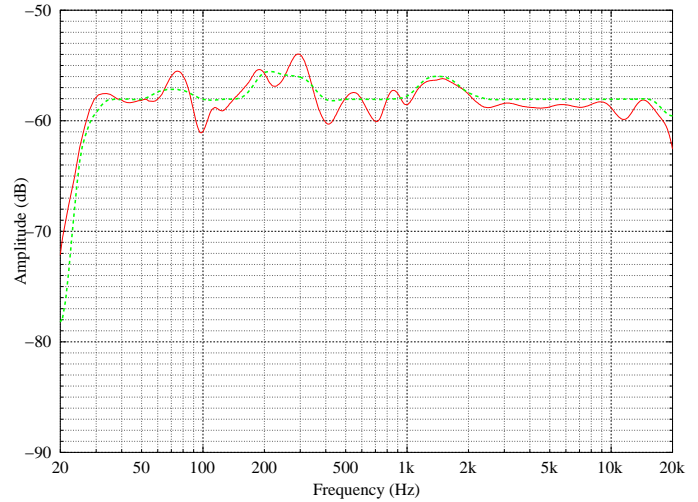


After correction

6.2 Frequency response

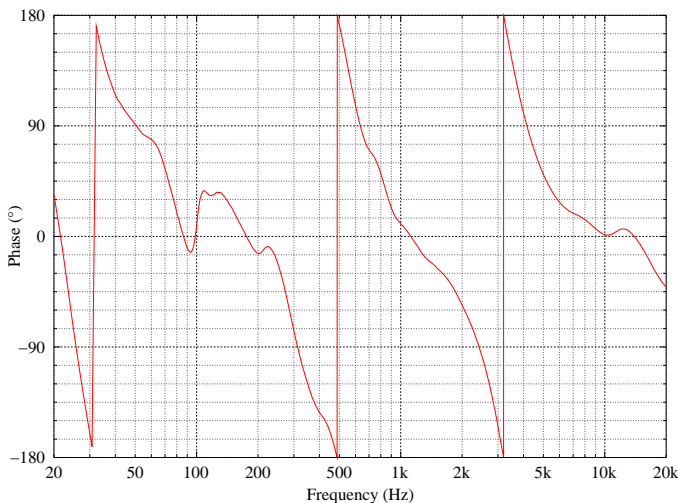


Before correction

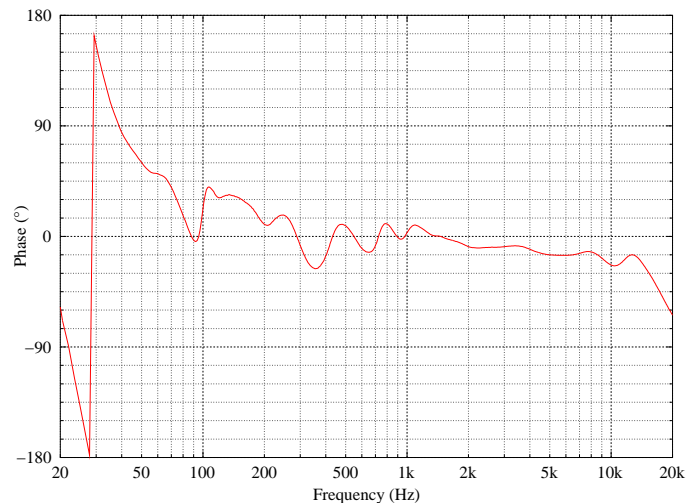


After correction

6.3 Phase response



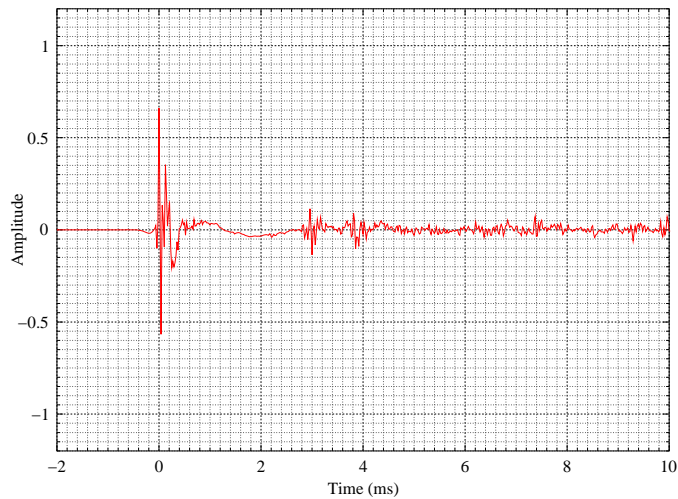
Before correction



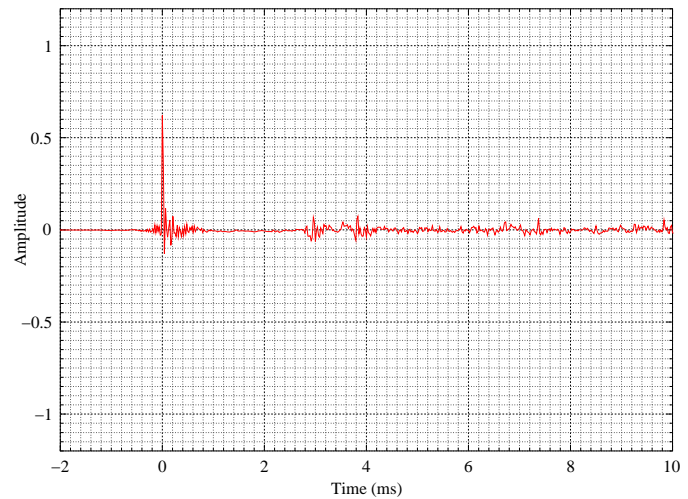
After correction

7 Speaker 5 (Loudspeaker at 5.60 m, elevation is 8° , azimuth is -110°)

7.1 Impulse response

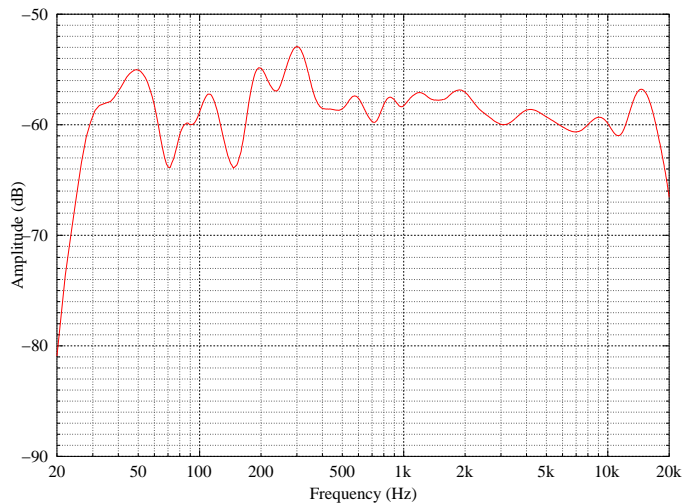


Before correction

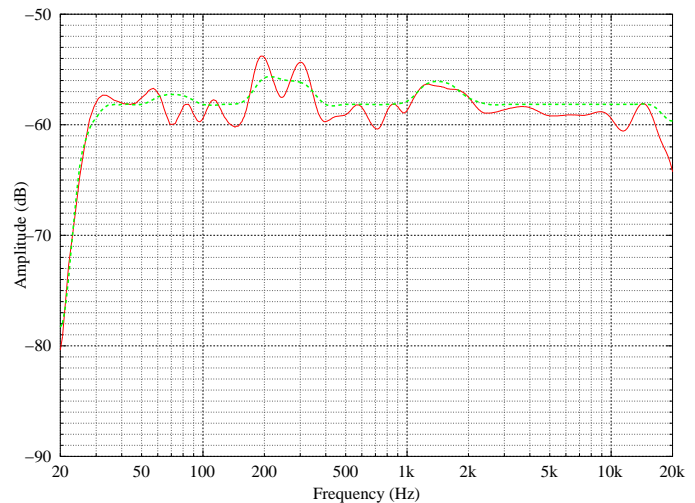


After correction

7.2 Frequency response

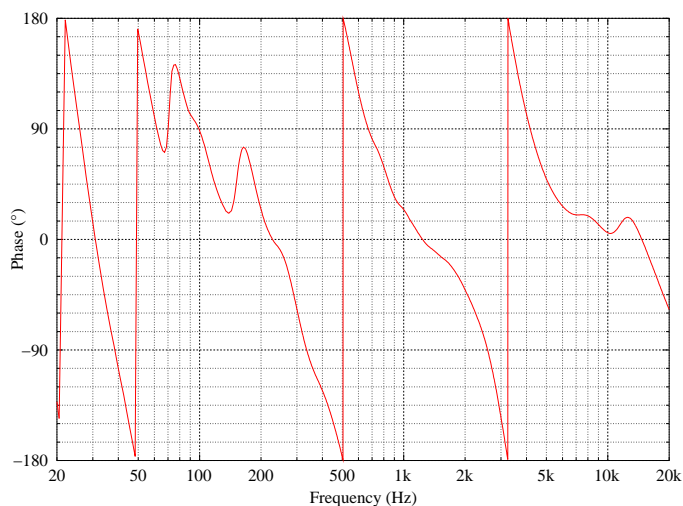


Before correction

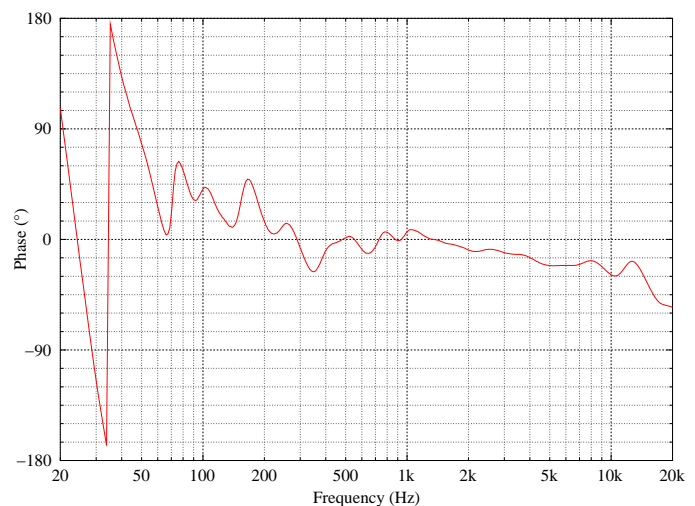


After correction

7.3 Phase response



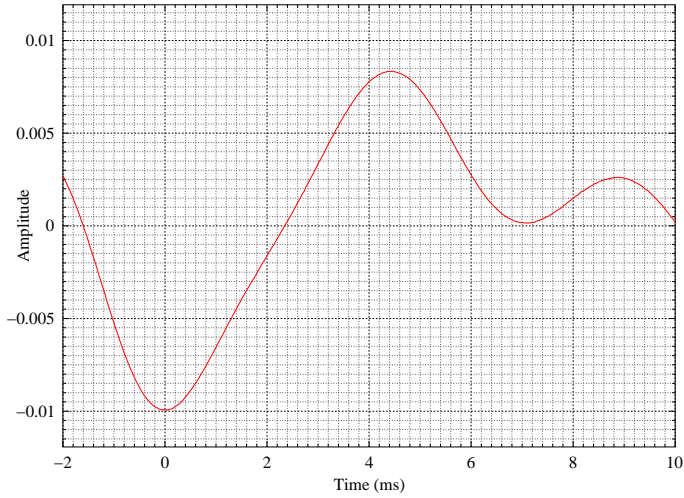
Before correction



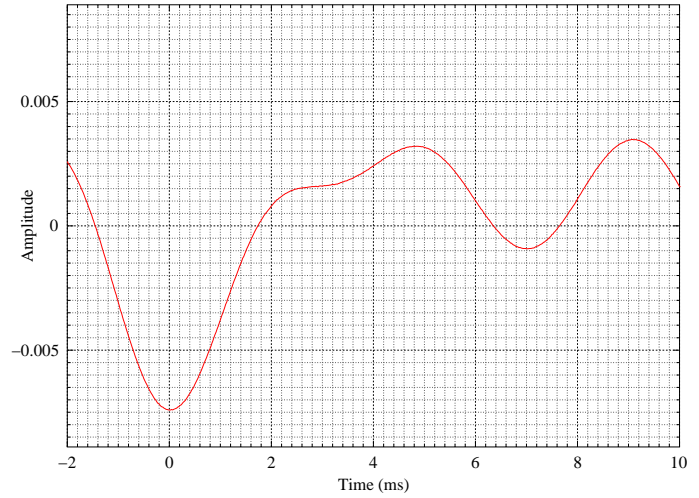
After correction

8 Speaker 6 (Subwoofer at 9.42 m)

8.1 Impulse response

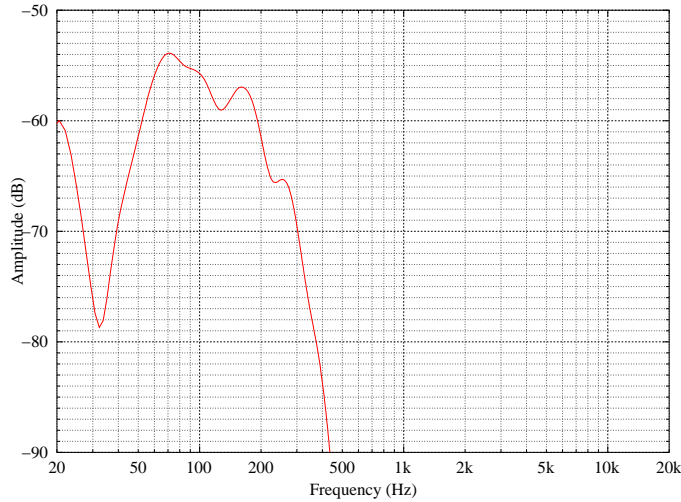


Before correction

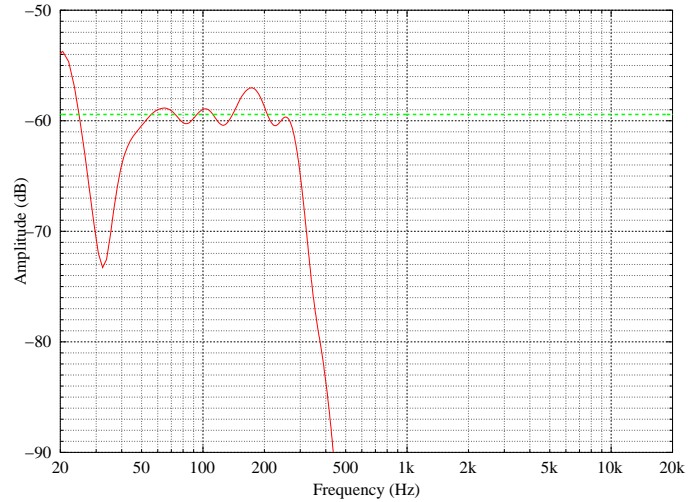


After correction

8.2 Frequency response

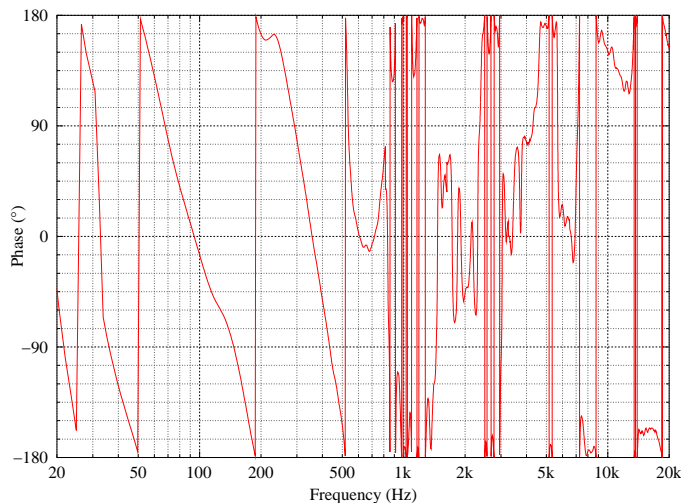


Before correction

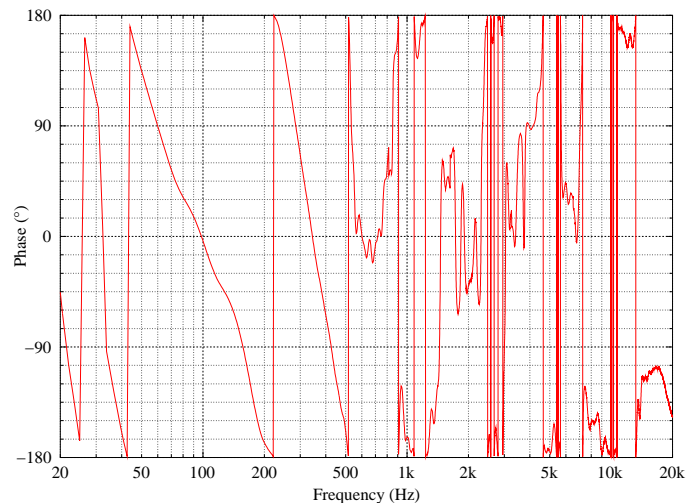


After correction

8.3 Phase response



Before correction



After correction