



Report of THE 5 PASSIVE ON WALL

ASCENDO

Date	Author	Changes	Version
26/07/2024	GL		V0

Summary

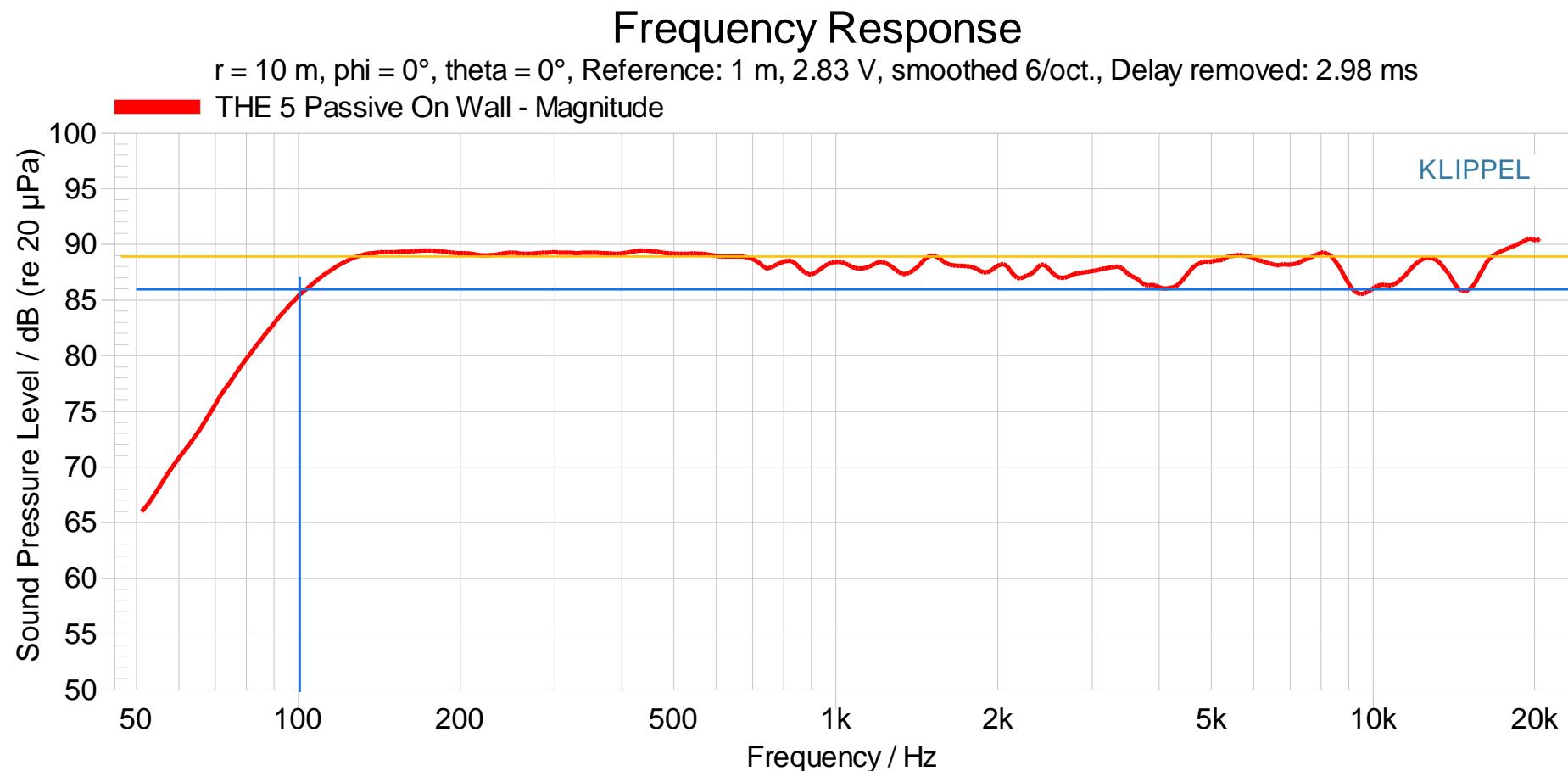
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1.Pictures of measurements



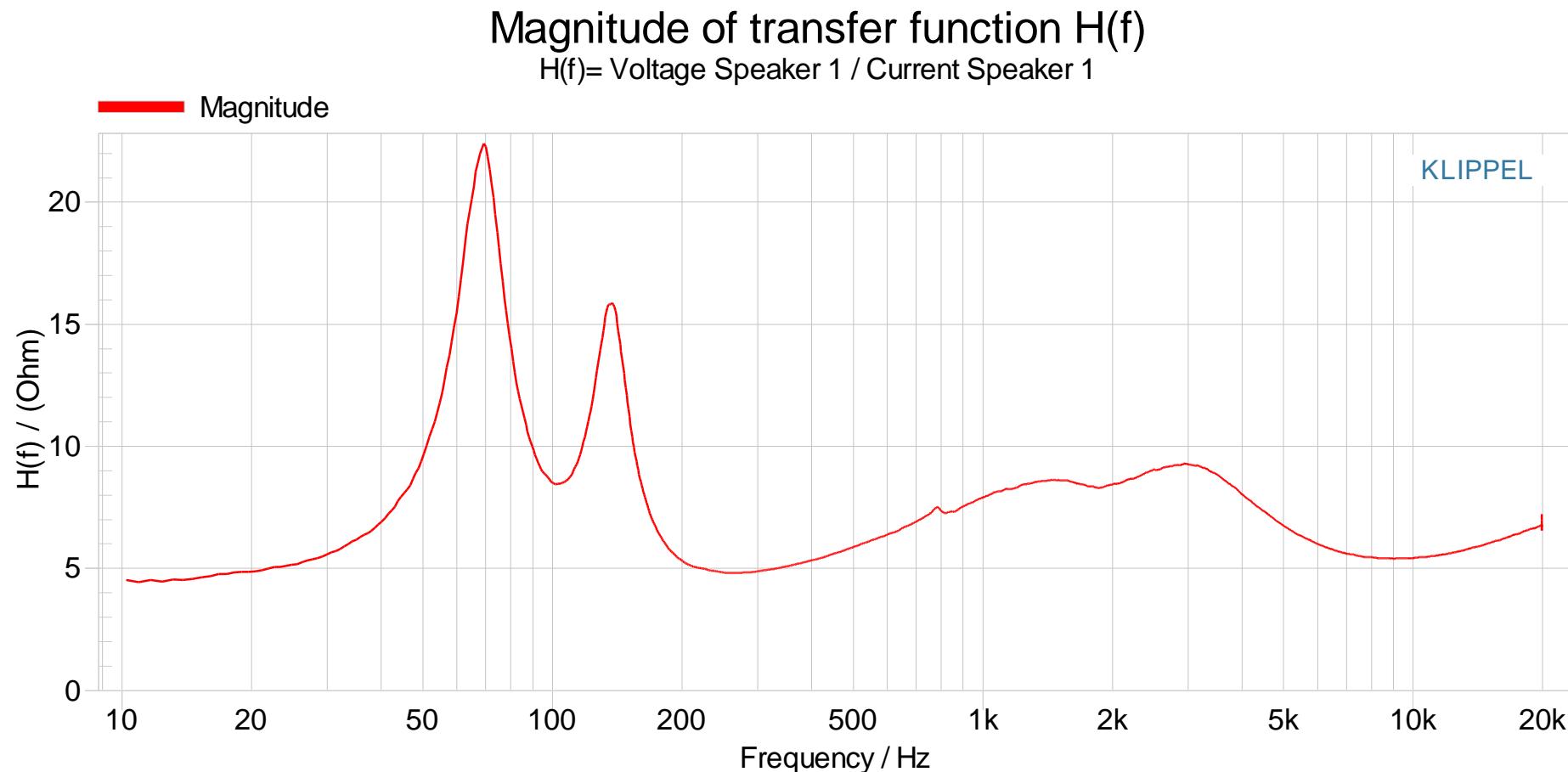
2. Frequency Response

2,83v @1m – 1/6 oct. Smoothing



3. Impedance Curve

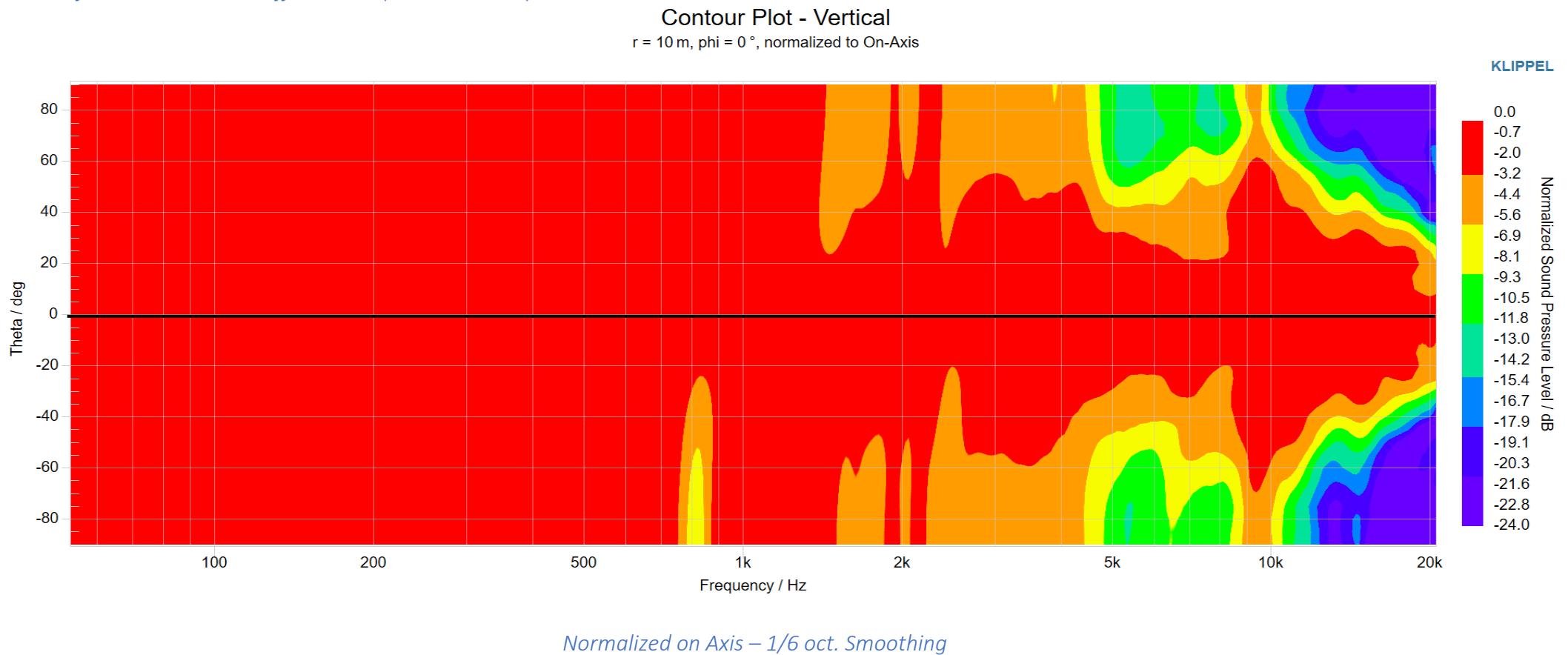
1v – No. Smoothing



4. Contour Plot

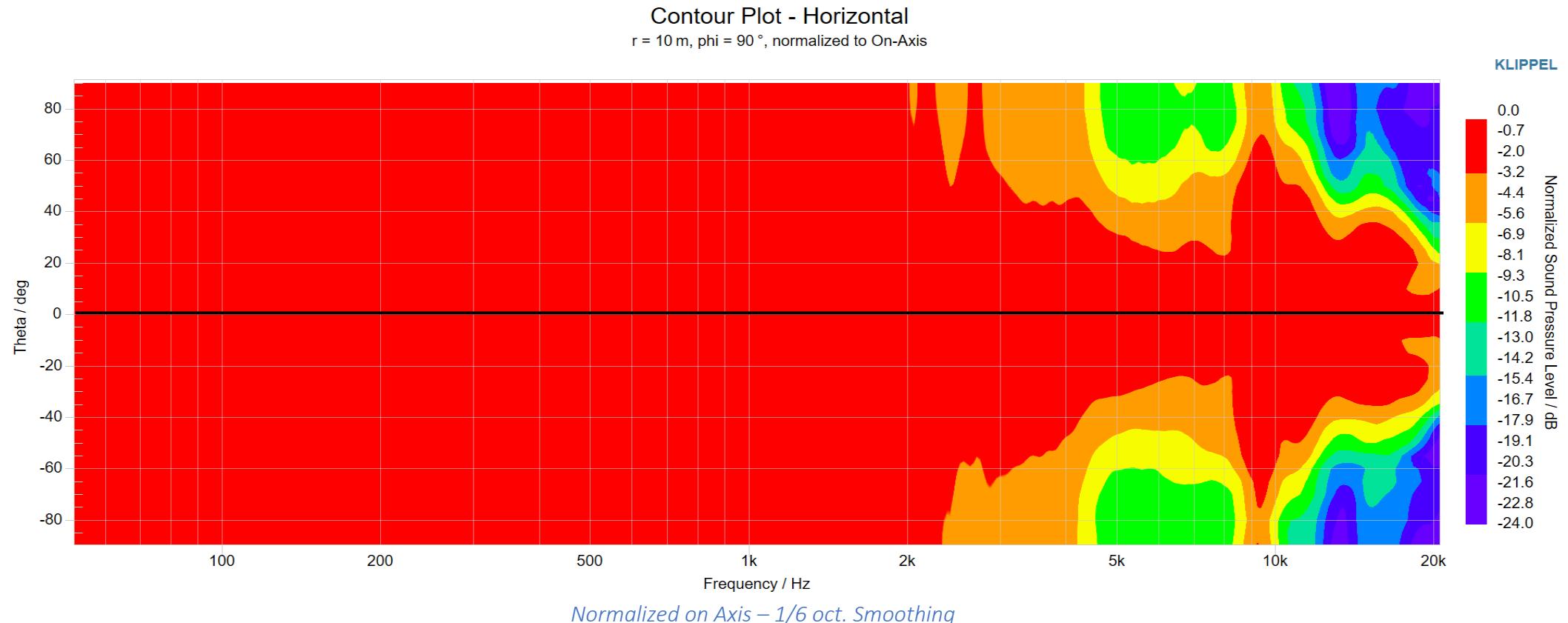
4.1. Vertical

Referenced @10m – Baffle loaded (2π steradians)



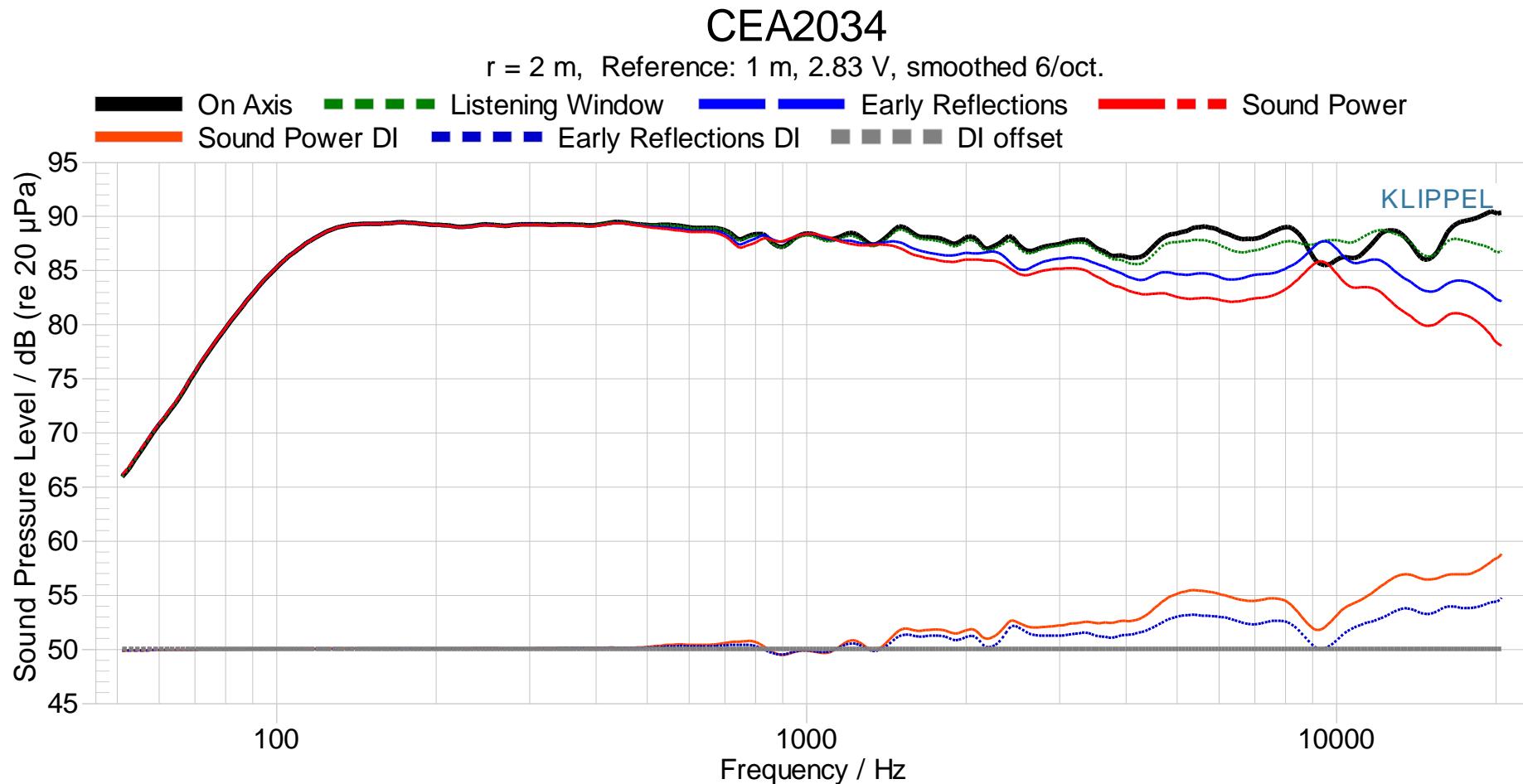
4.2. Horizontal

Referenced @10m – Baffle loaded (2π steradians)



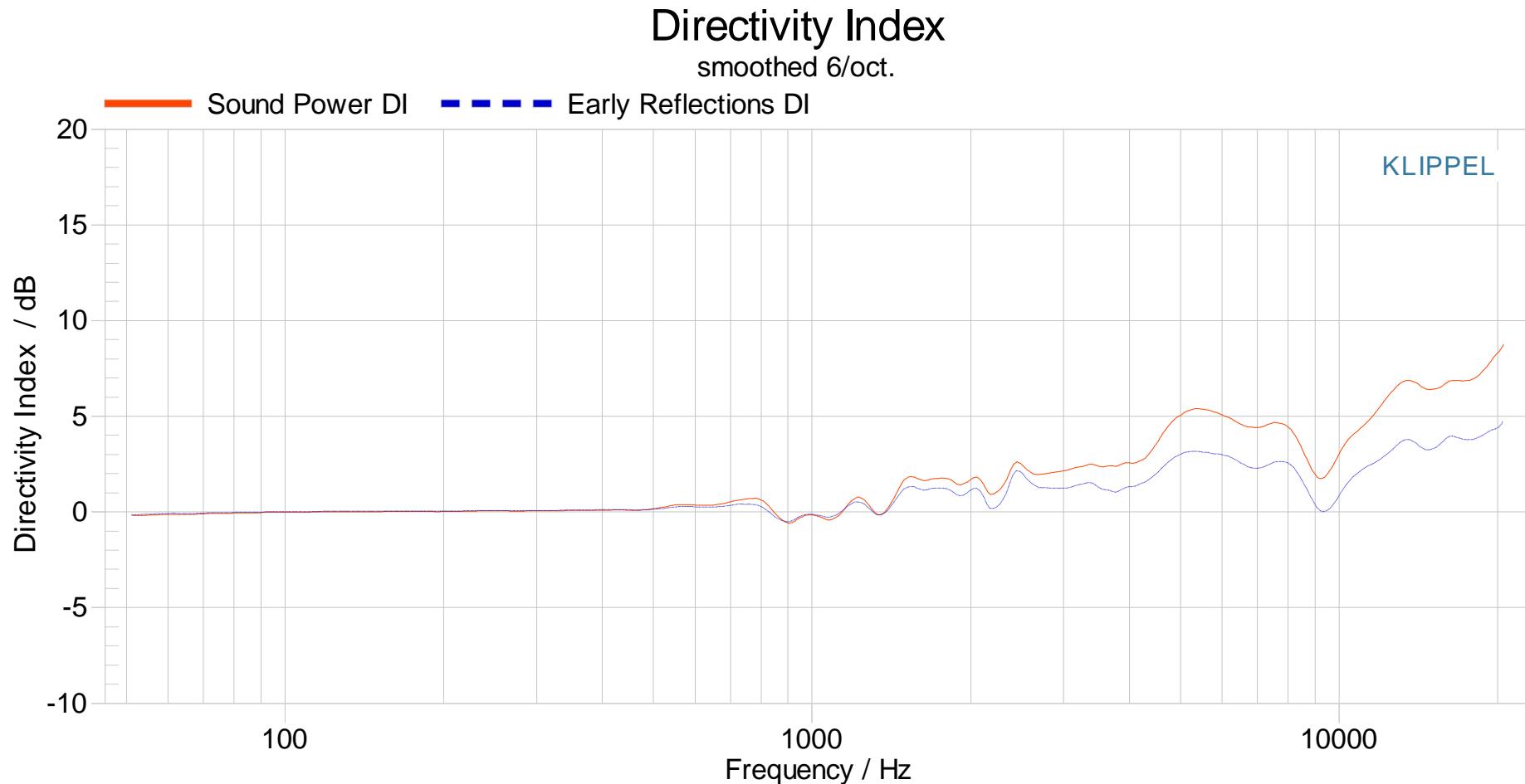
5. CEA2034 Spinorama

2,83v @1m – 1/6 oct. Smoothing



5.1. Directivity Index

1/6 oct. Smoothing

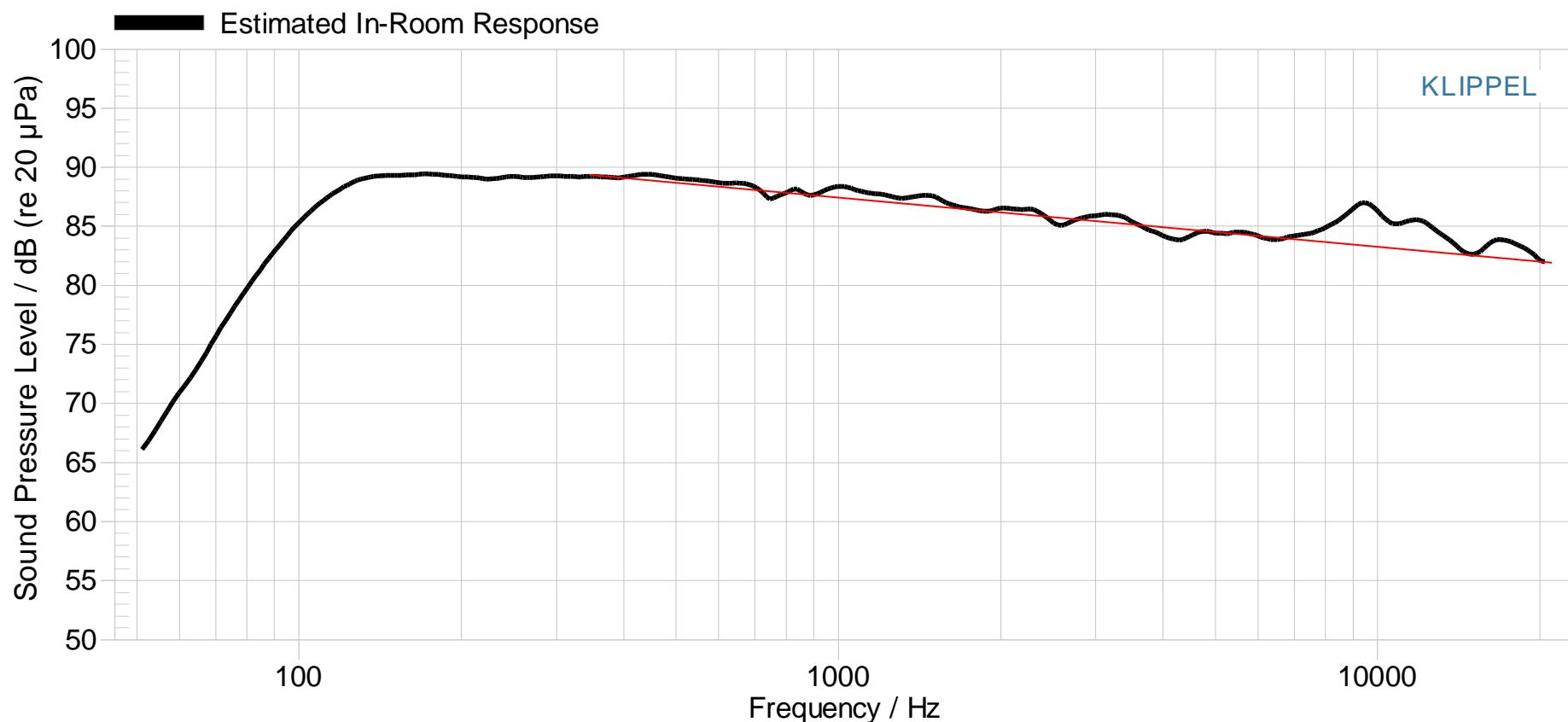


5.2. In-Room response

1/6 oct. Smoothing

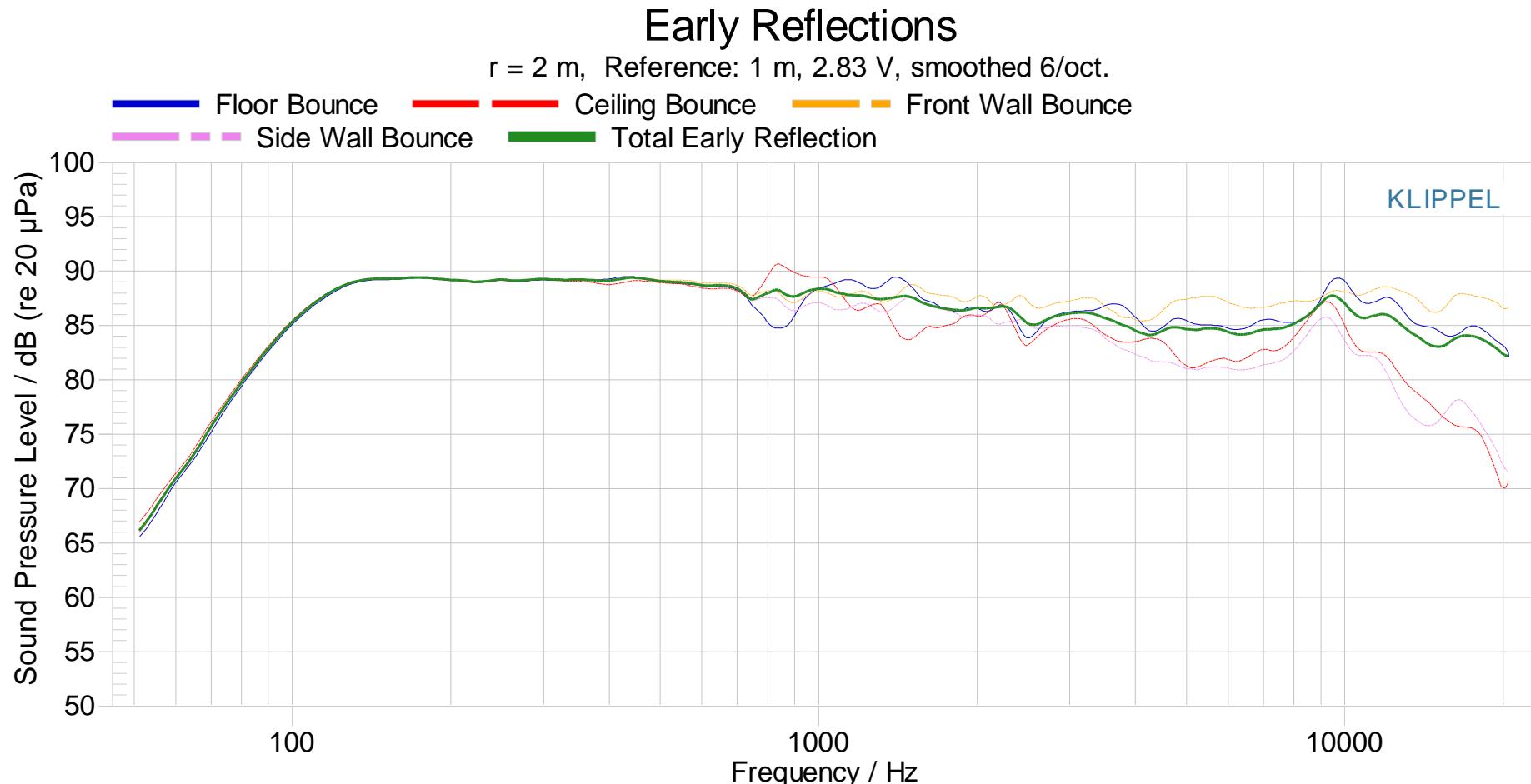
Estimated In-Room Response

$r = 2$ m, Reference: 1 m, 2.83 V, smoothed 6/oct.



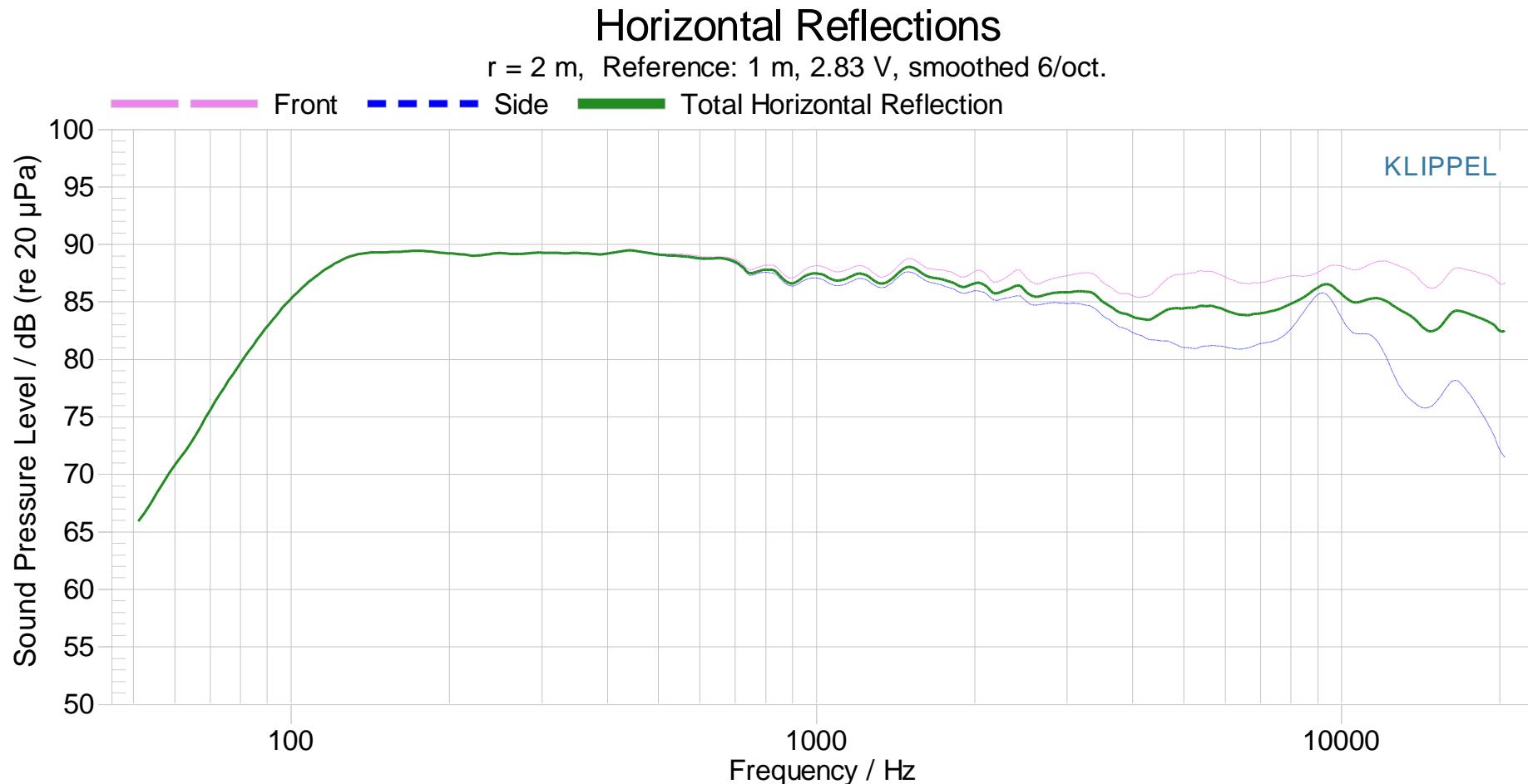
5.3. Early reflections

1/6 oct. Smoothing



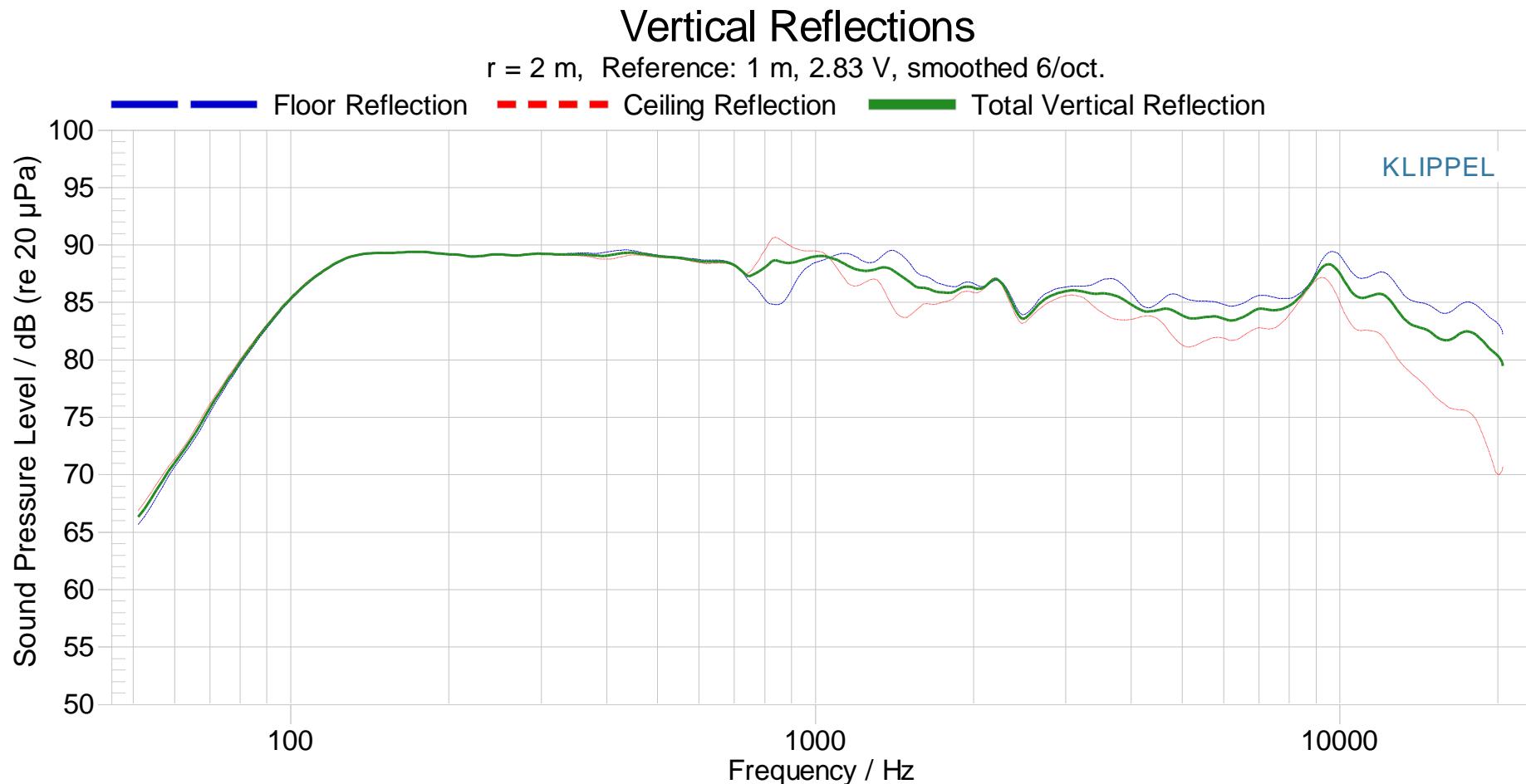
5.4. Horizontal Reflections

1/6 oct. Smoothing



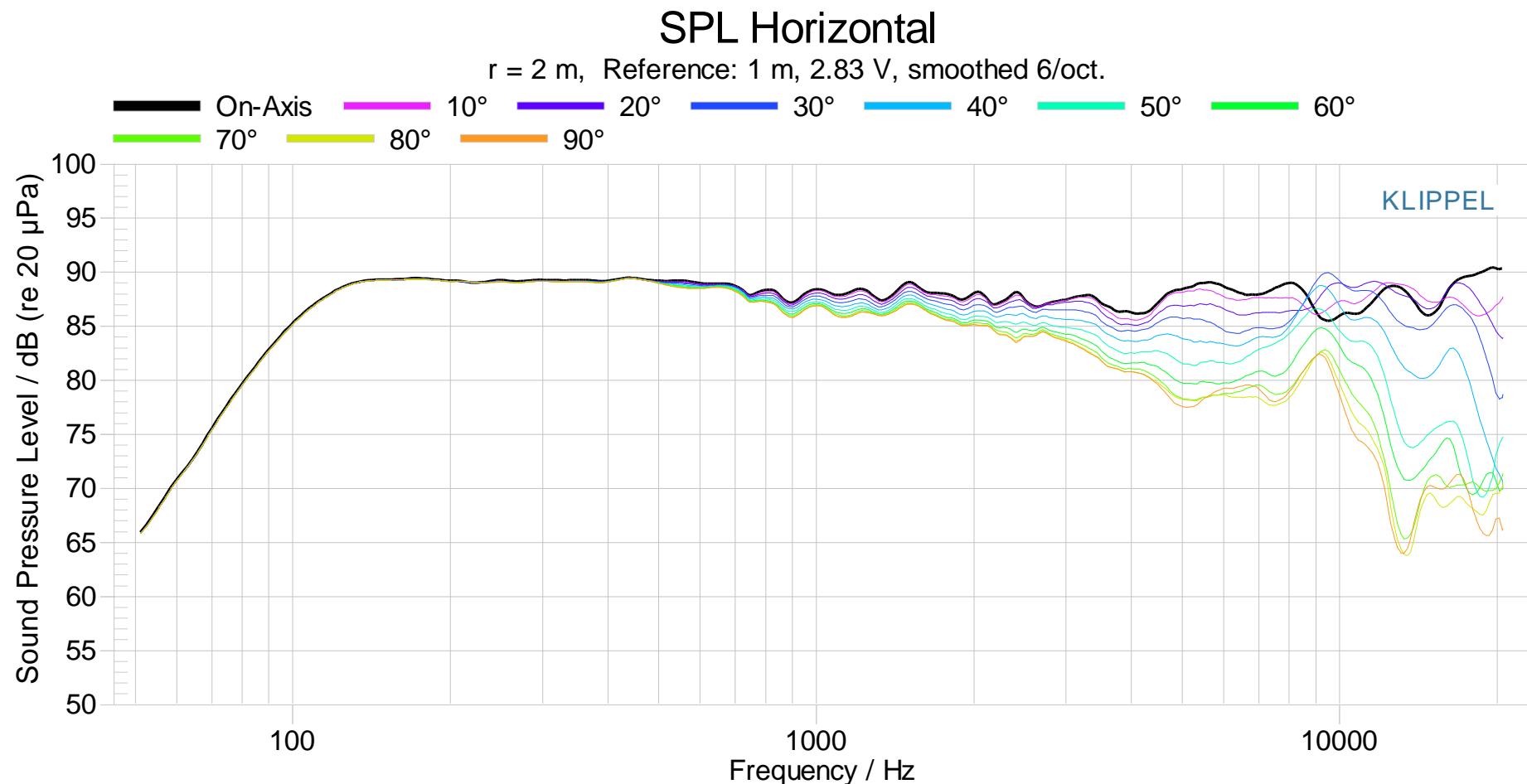
5.5. Vertical Reflections

1/6 oct. Smoothing



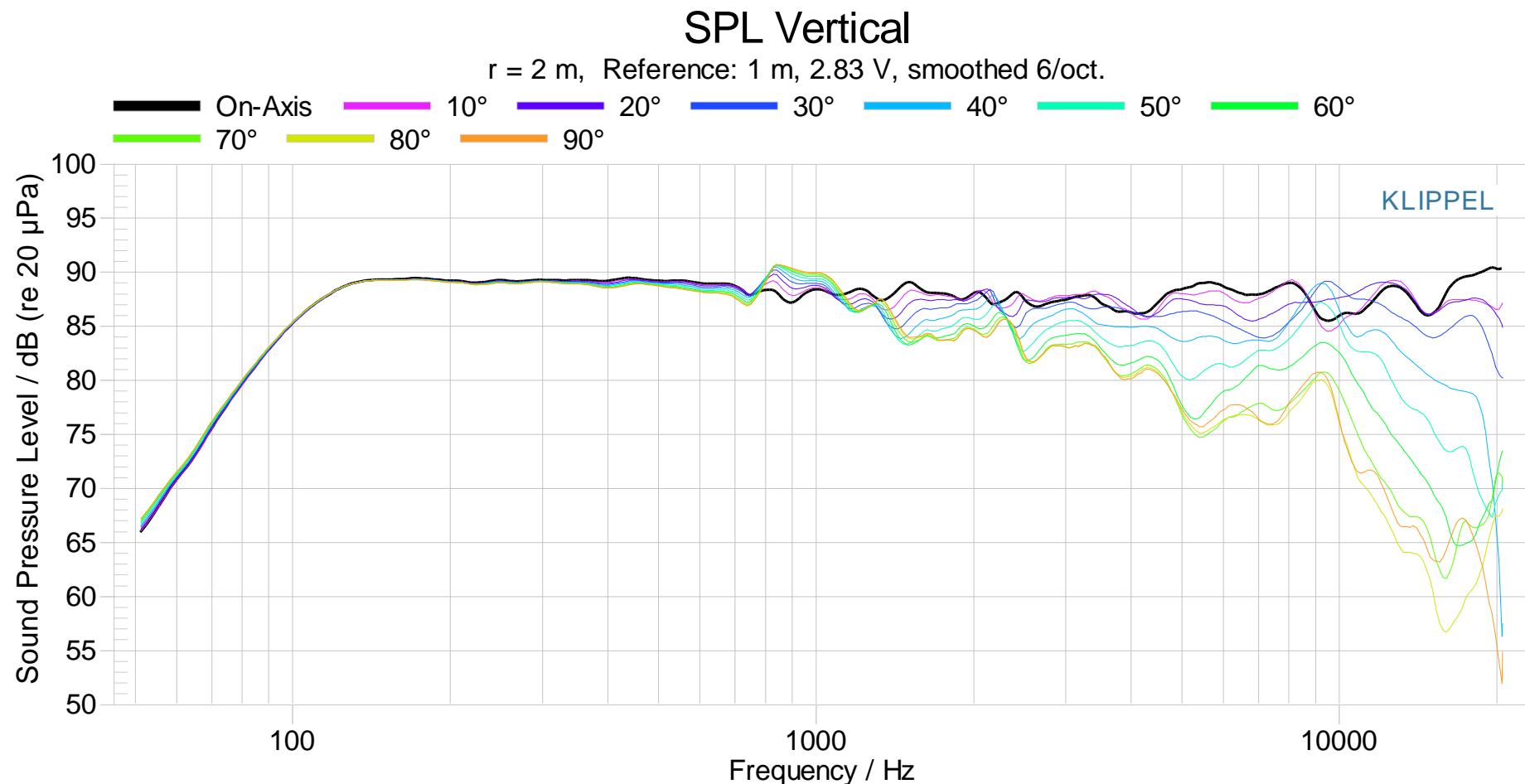
5.6. Horizontal Frequency Response

1/6 oct. Smoothing



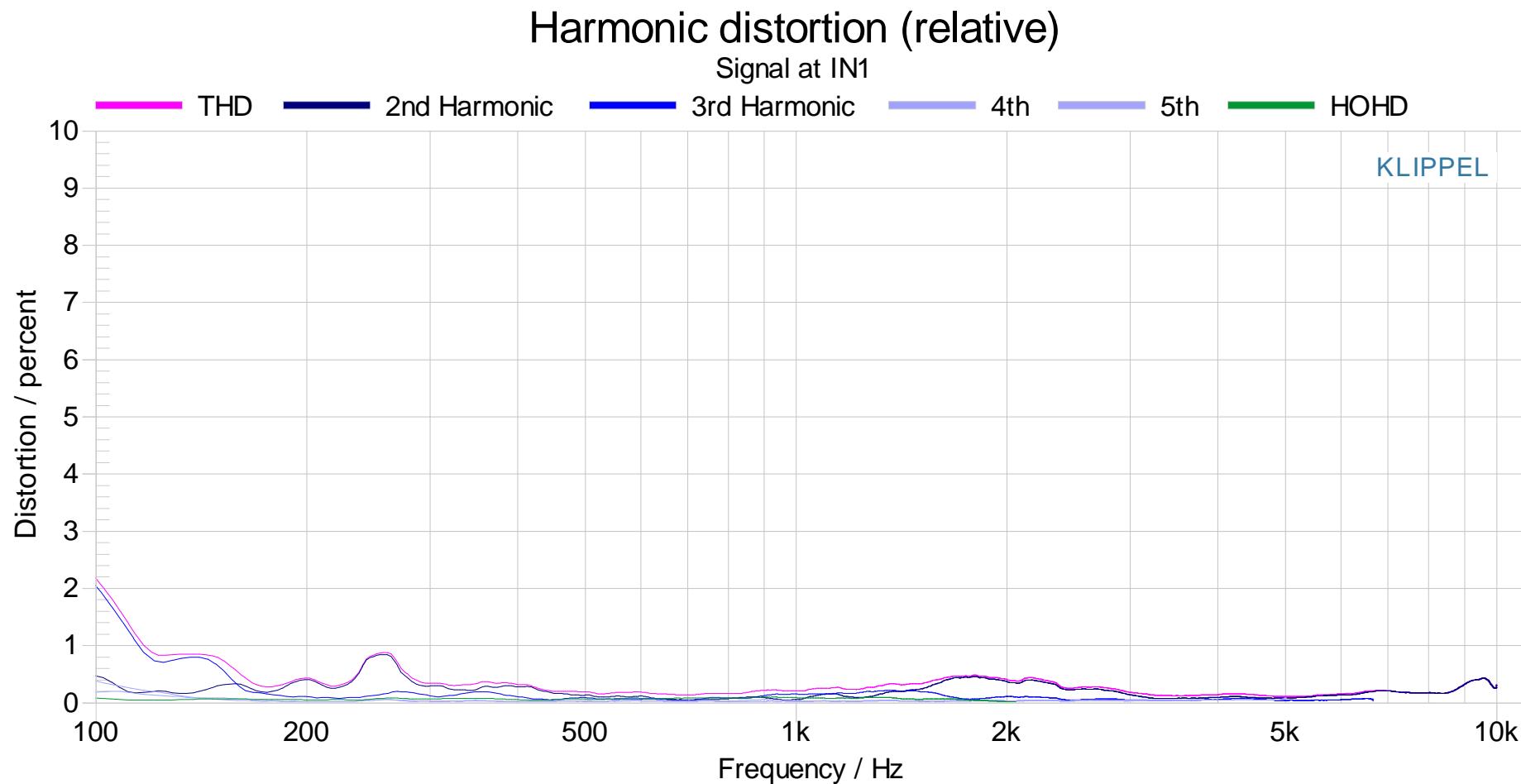
5.7. Vertical Frequency Response

1/6 oct. Smoothing



6. Harmonic Distortion

1/6 oct. Smoothing – 2V Stimulus



7.MTON Max SPL – 1s Stimulus

7.1. Results

Results of last passed measurement

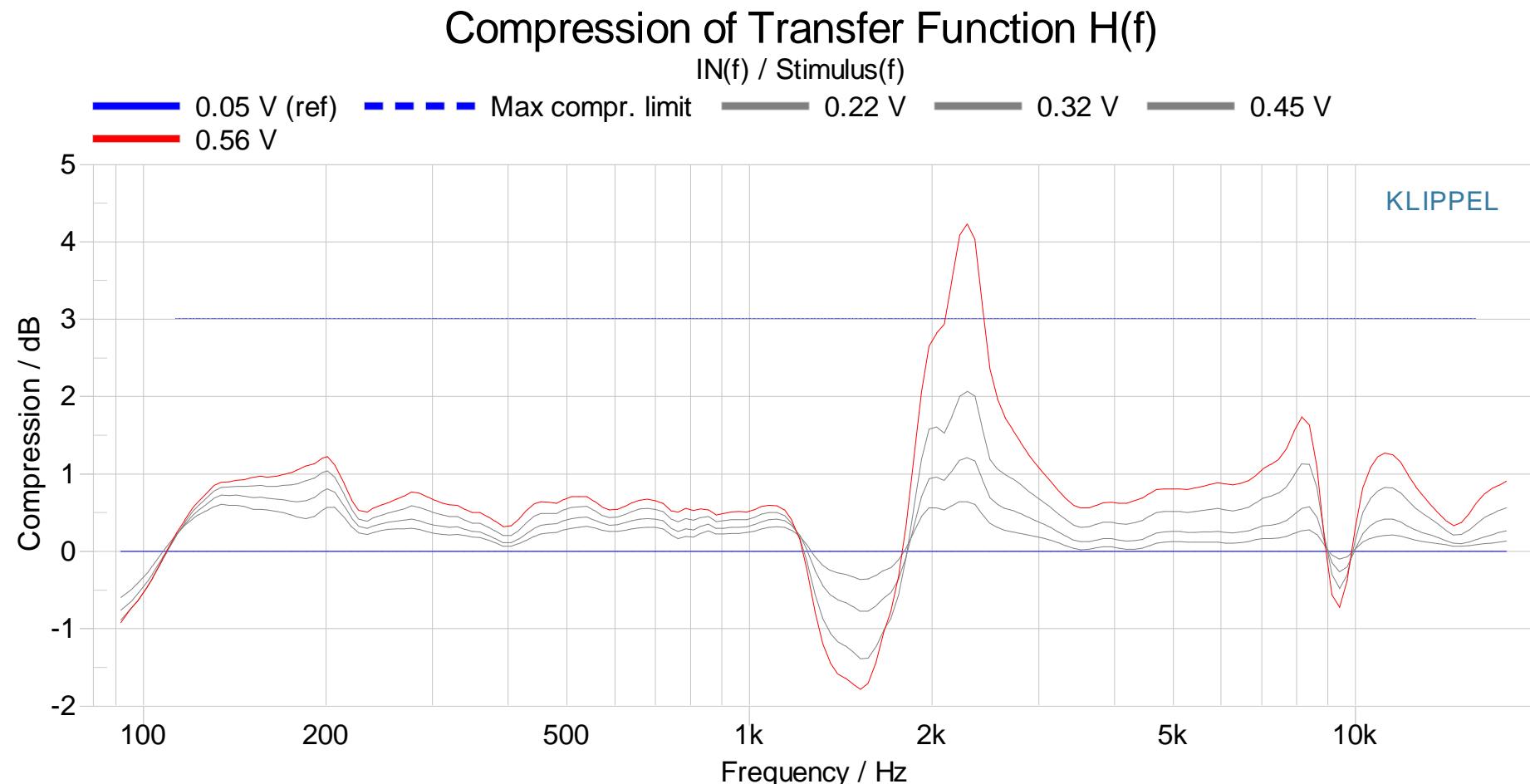
Parameter	Value	Unit	Description
U_{\max}	0.45	V	Root mean square of stimulus.
SPL_{\max}	108.61	dB	Sum level of fundamentals in microphone signal.
Eff. Freq. Range	92 - 8146	Hz	Effective frequency range (freq. response > SPL value - 10 dB).
C_{\max}	2.07	dB	Max compression in the frequency range 113 - 15830 Hz.
RMD_{\max}	-13.15 (22)	dB (%)	Maximum spectral multi-tone distortion ratio of microphone signal.
TMDR	-27.13 (4.4)	dB (%)	Total multi-tone distortion ratio of microphone signal.

Stimulus properties

Parameter	Value	Unit	Description
f_{\min}	91.8	Hz	Lowest multi-tone frequency line
f_{\max}	17769.53	Hz	Highest multi-tone frequency line
t	0.51	s	Signal duration
K	3.02	-	Kurtosis
C	12.59	dB	Crest factor

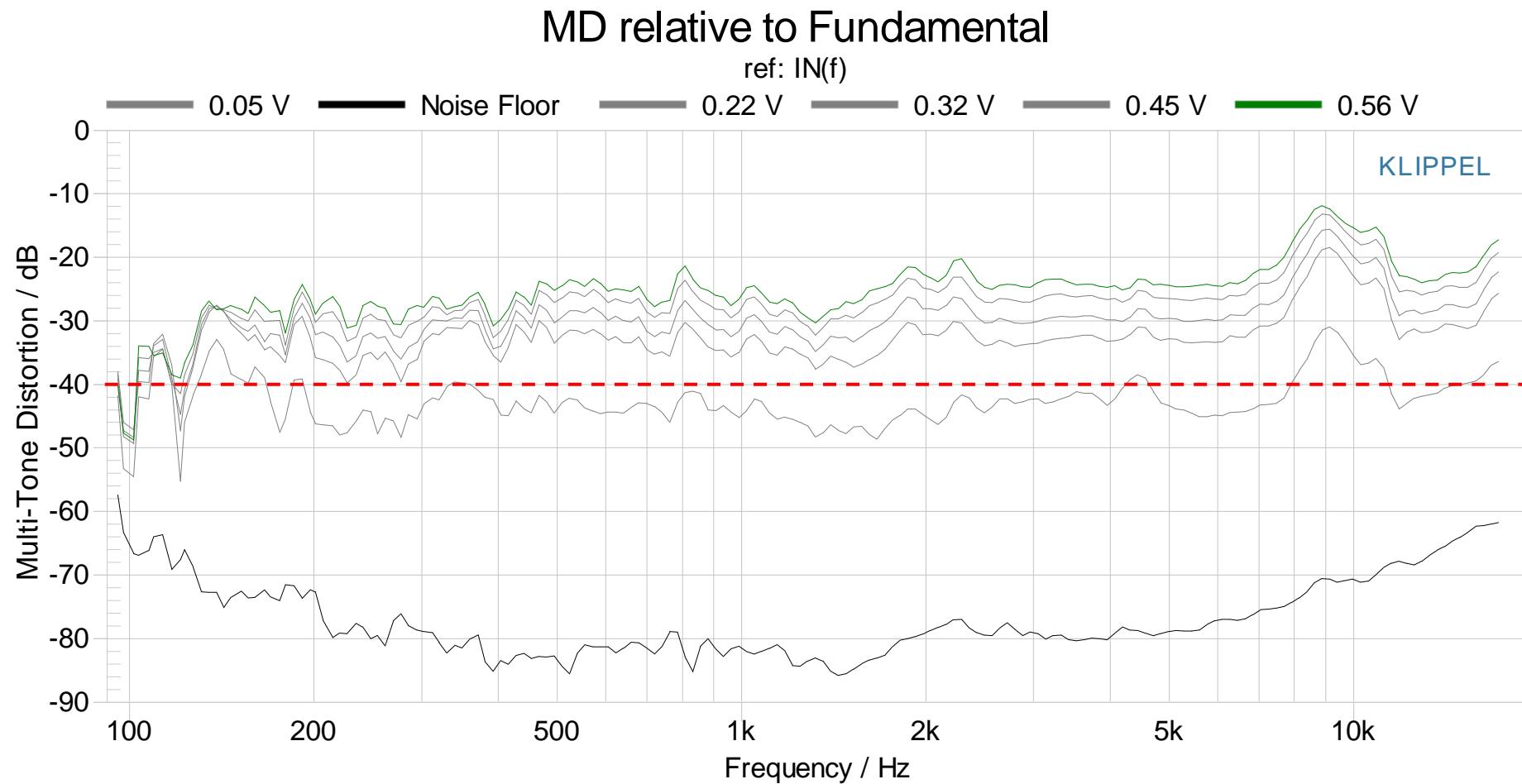
7.2. Compression Chart

-32dB Voltage Values – 1/6 Smoothing



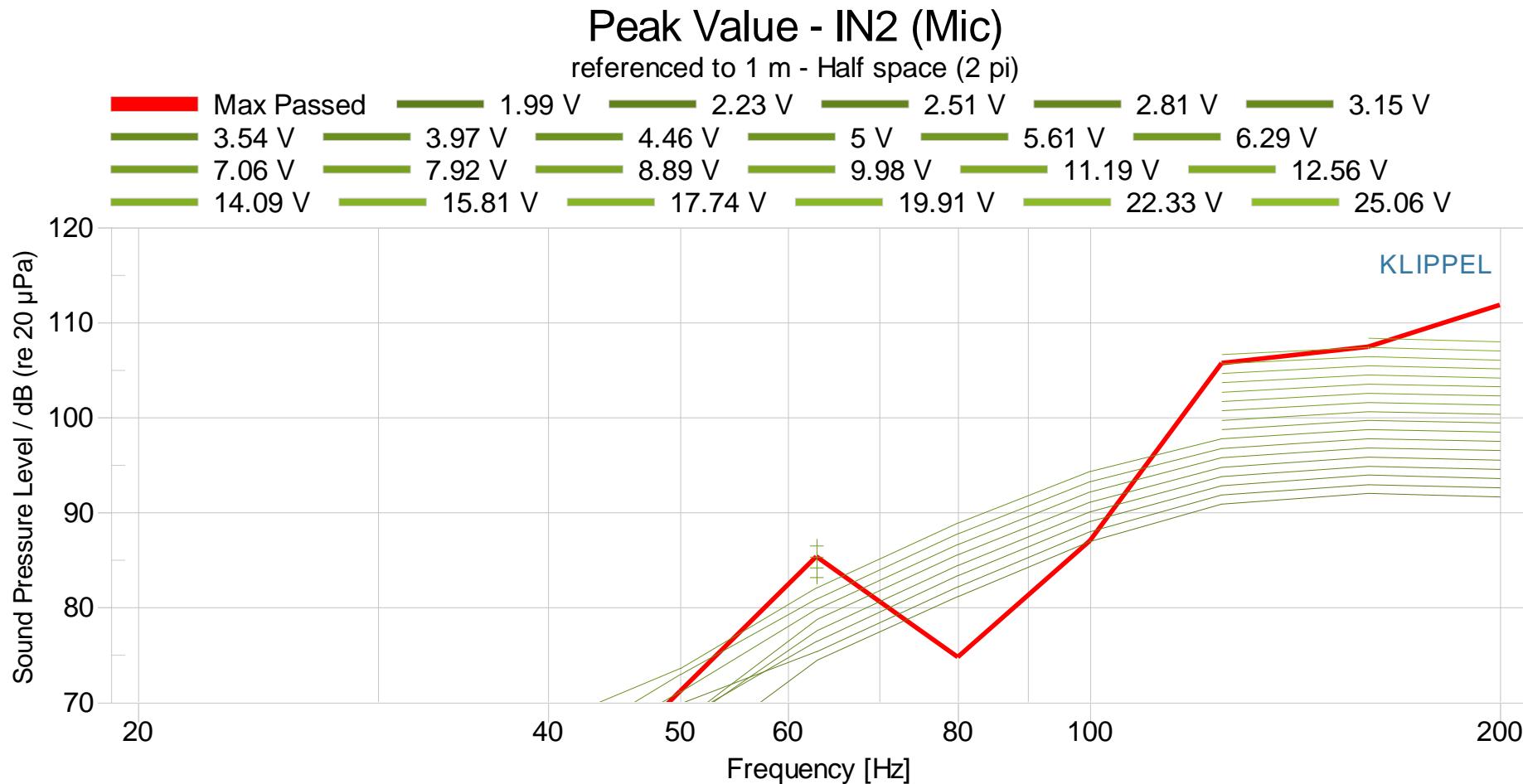
7.3. Multi Tone Distortion Chart

-32dB Voltage Values – No Smoothing

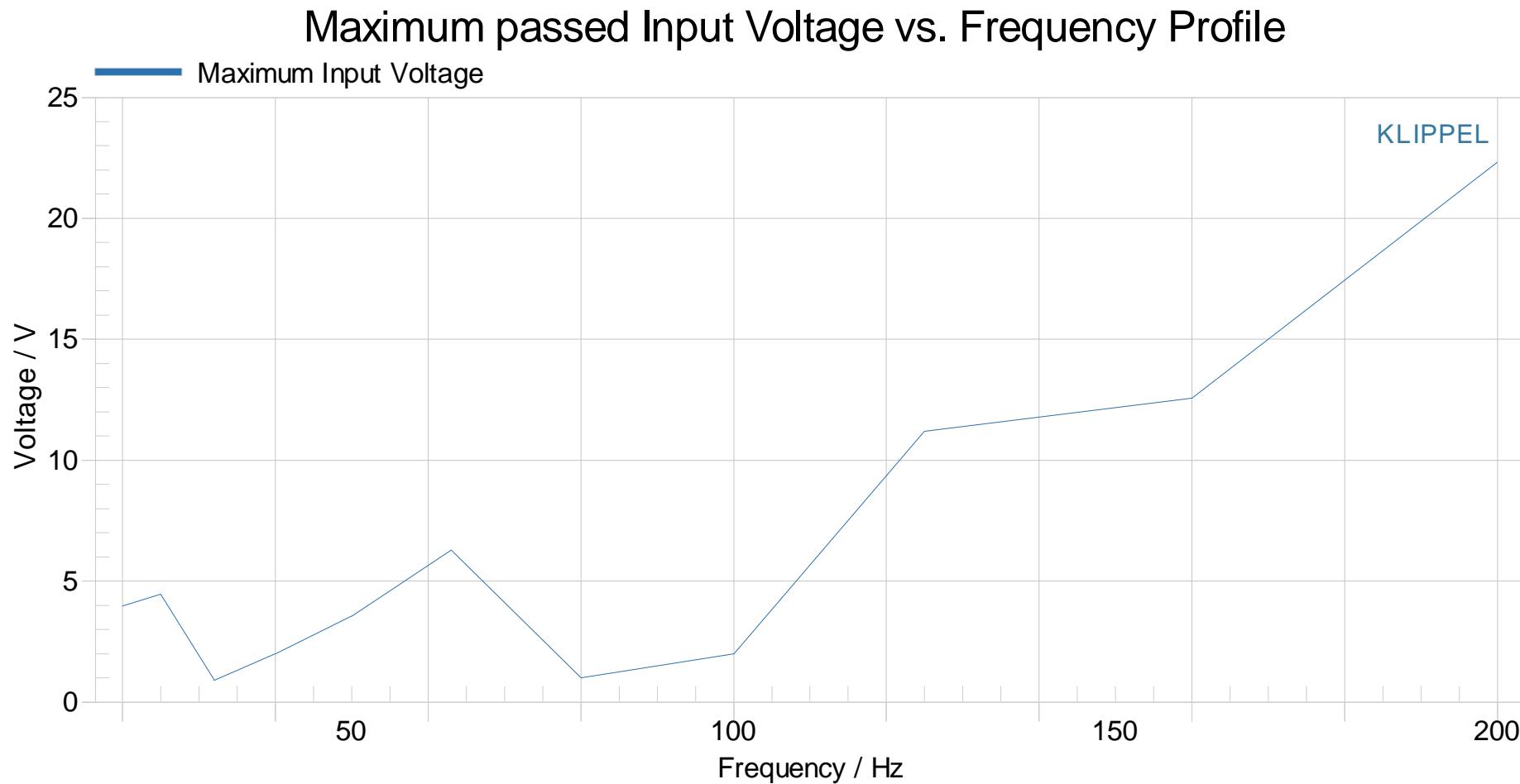


8.CEA2010B

8.1. Max Peak SPL



8.2. Max Peak Voltage



8.3. THD on Burst

