



Report of THE15 Be PRO ACTIVE EXT ON WALL

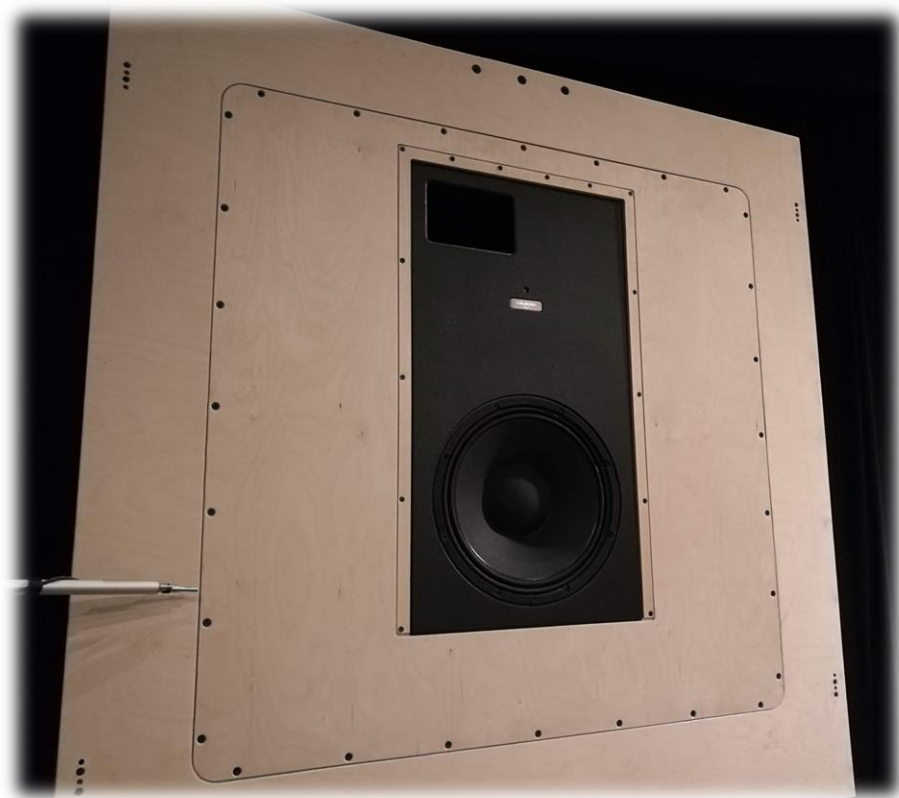
ASCENDO

Date	Author	Changes	Version
10/11/2021	GL		V1
20/11/2021	GL	THD BURST SCALE	V1_REV1

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1. Pictures of measurements

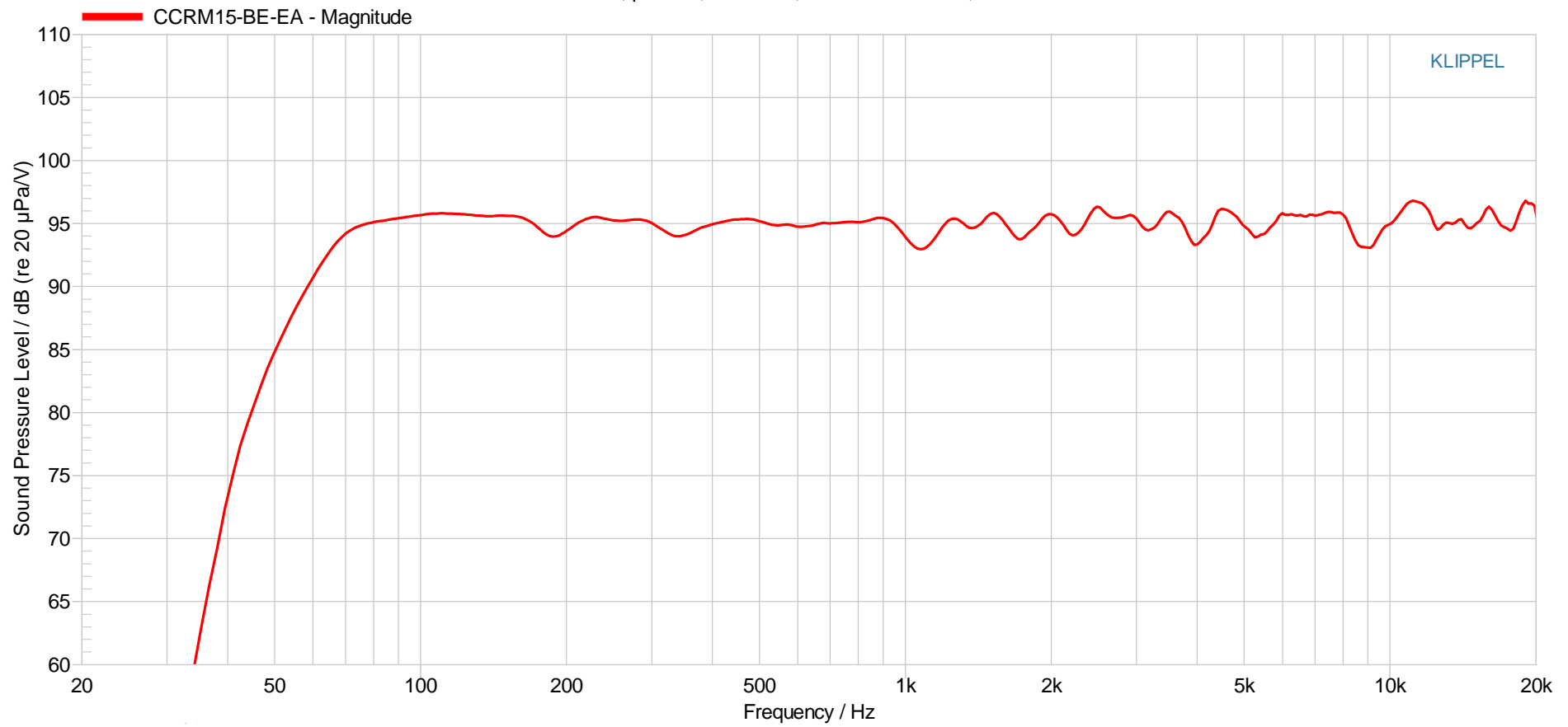


2. Frequency Response

2,83v @1m – 1/6 oct. Smoothing

H(f) Magnitude + Phase

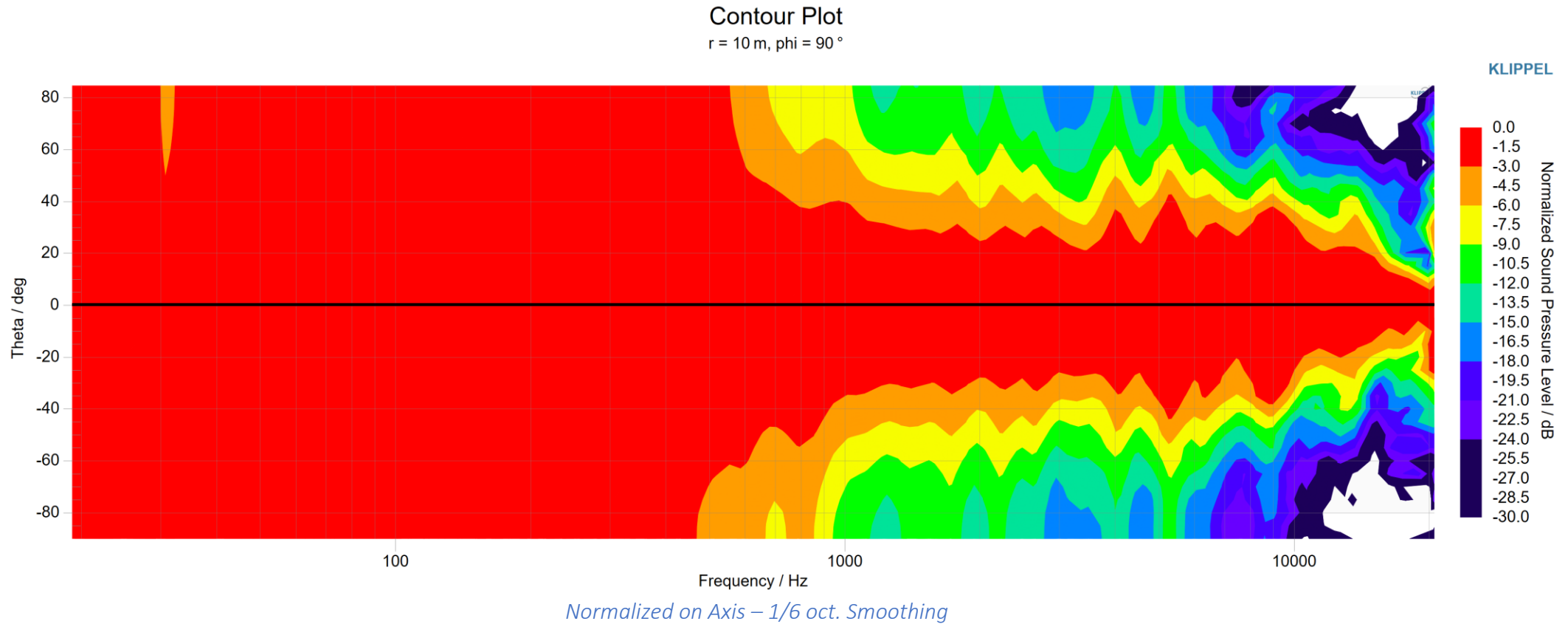
r = 10 m, phi = 0°, theta = 0°, Reference: 1.00 m, 2.83 V



3. Contour Plot

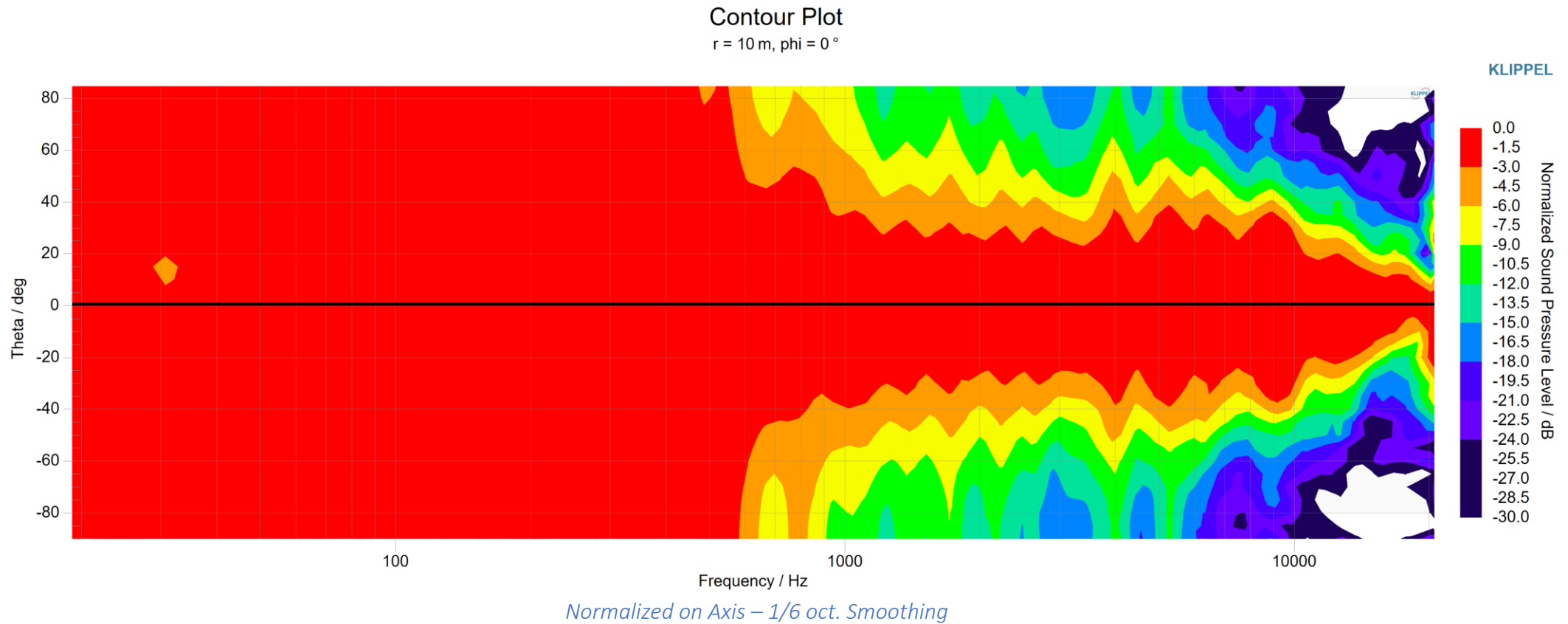
3.1. Horizontal

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



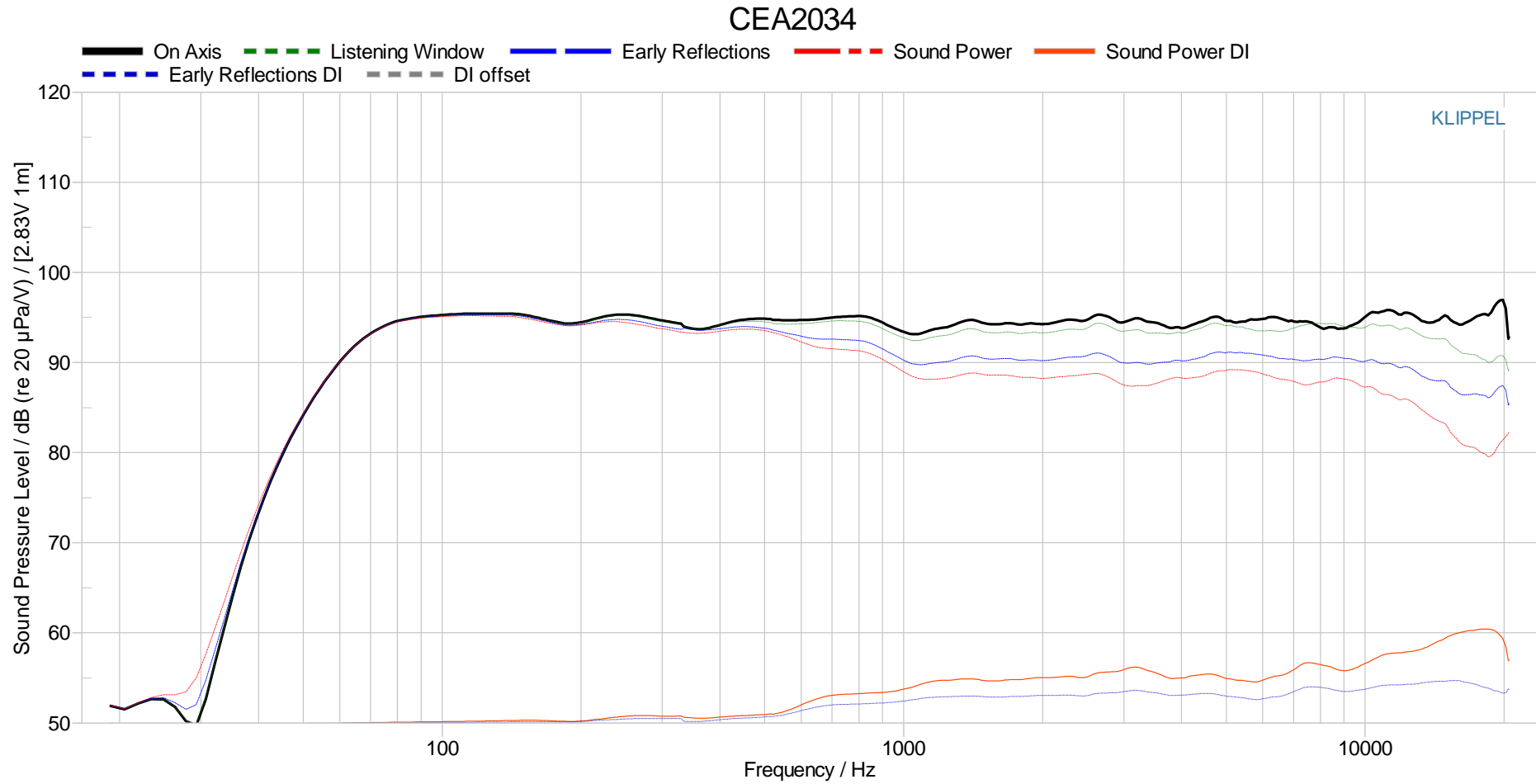
3.2. Vertical

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



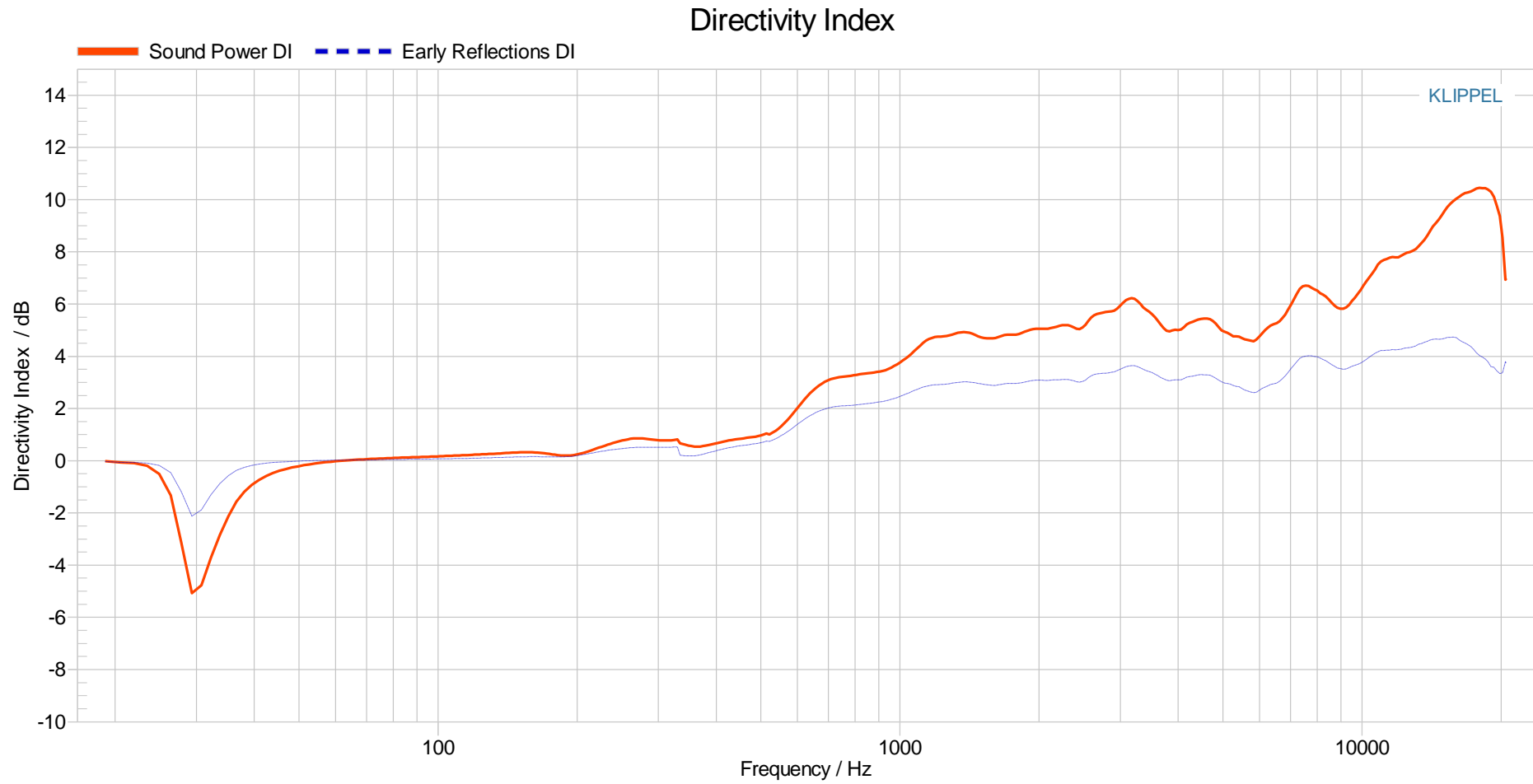
4. CEA2034 Spinorama

2,83v @1m – 1/6 oct. Smoothing



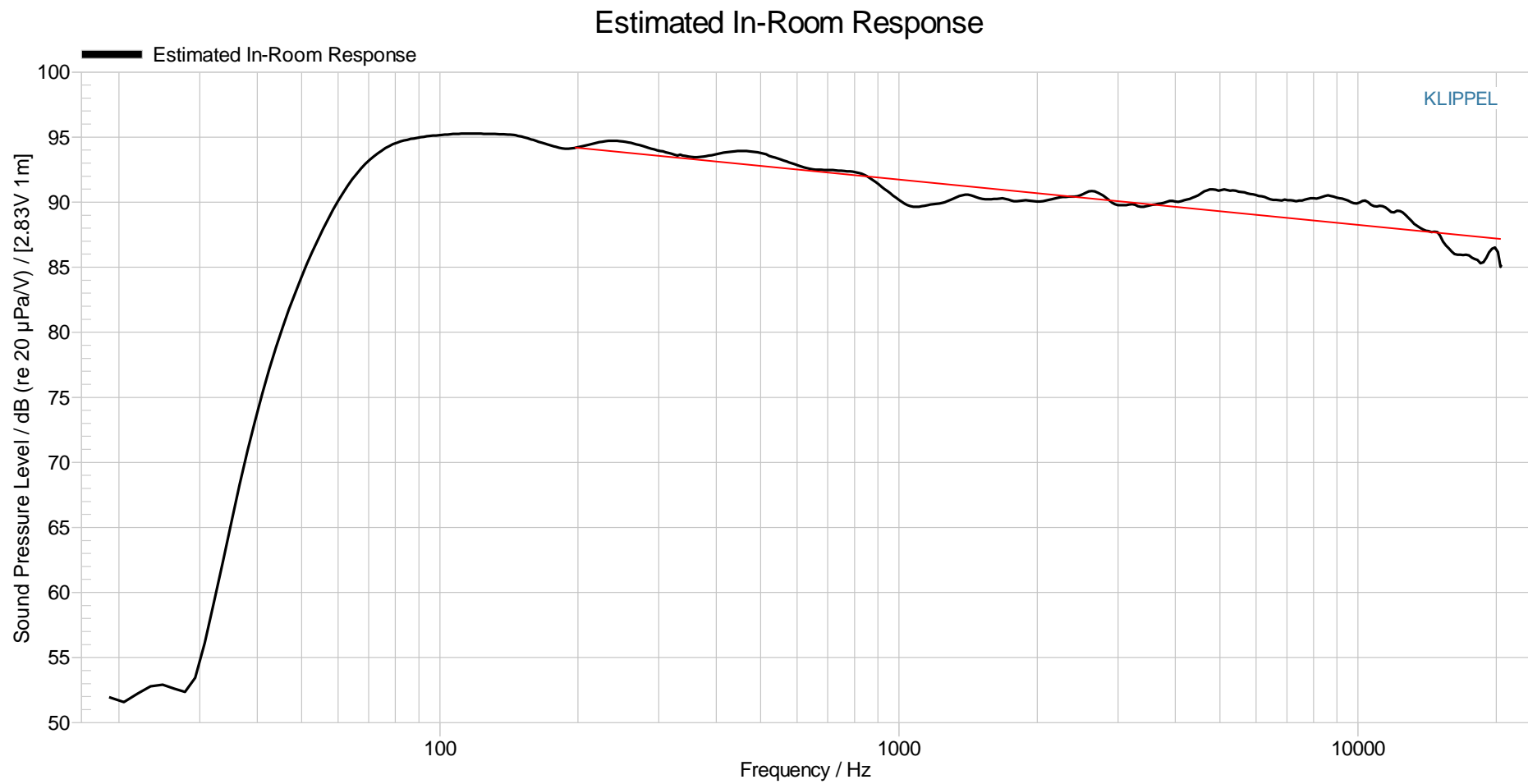
4.1. Directivity Index

1/6 oct. Smoothing



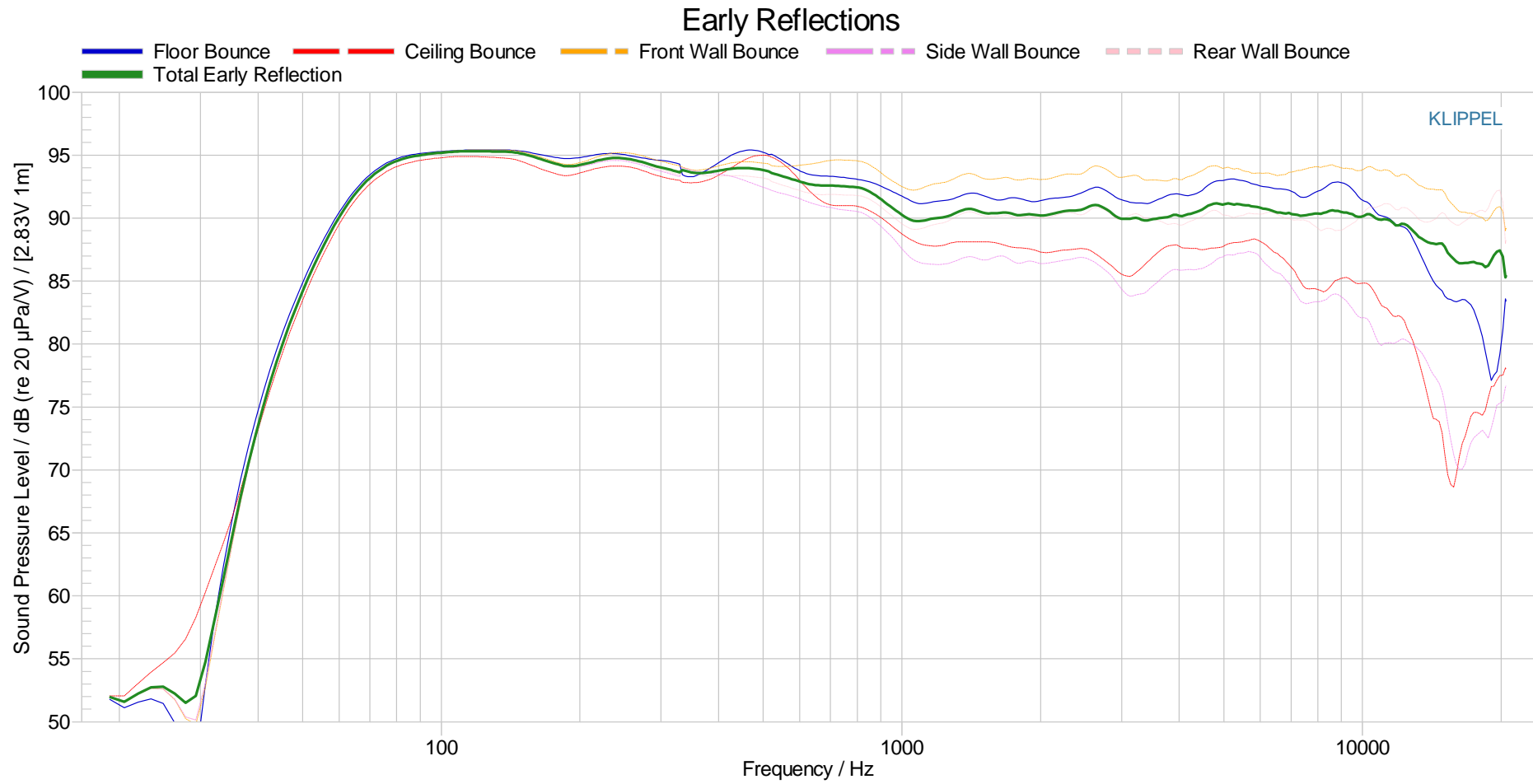
4.2. In-Room response

1/6 oct. Smoothing



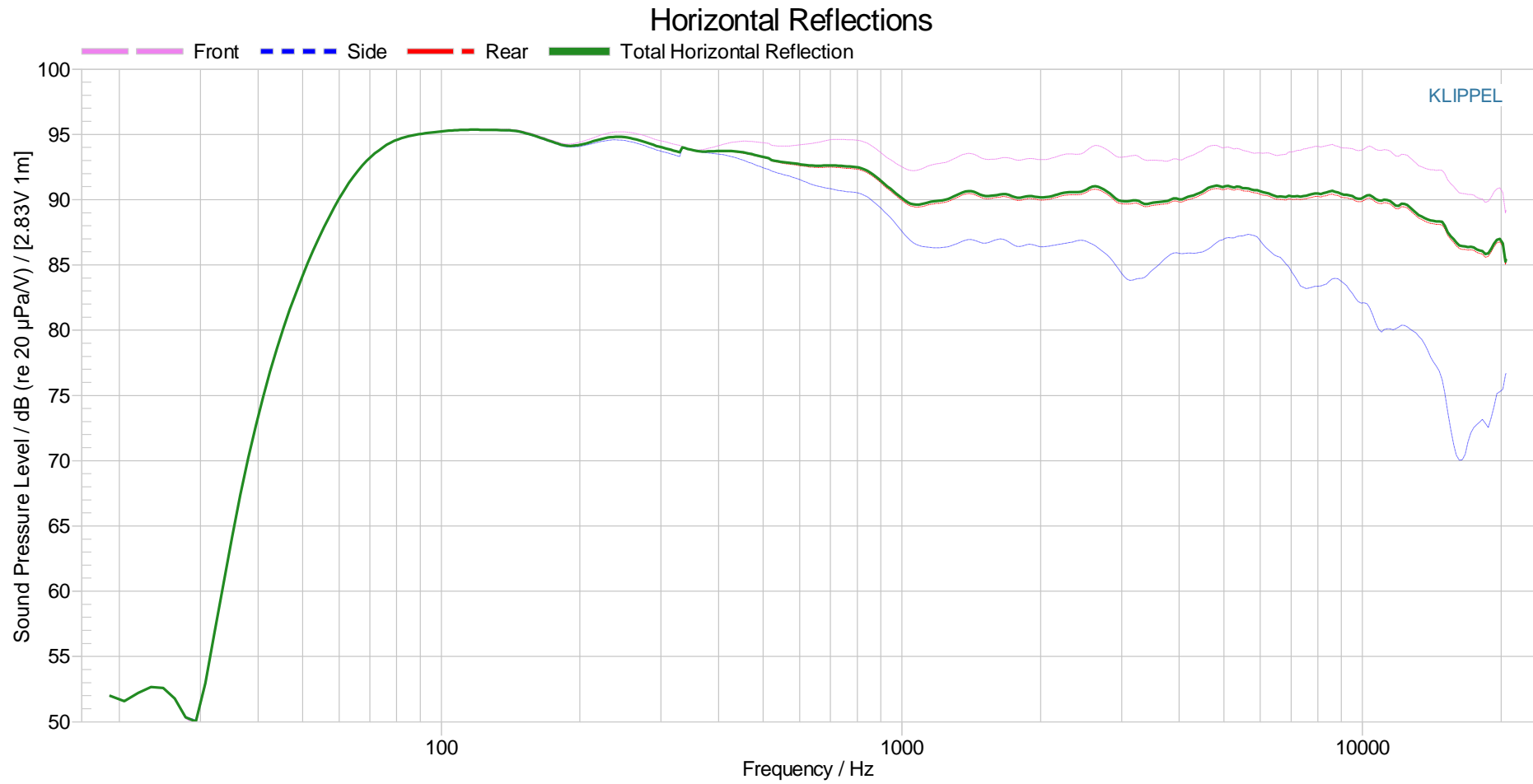
4.3. Early reflections

1/6 oct. Smoothing



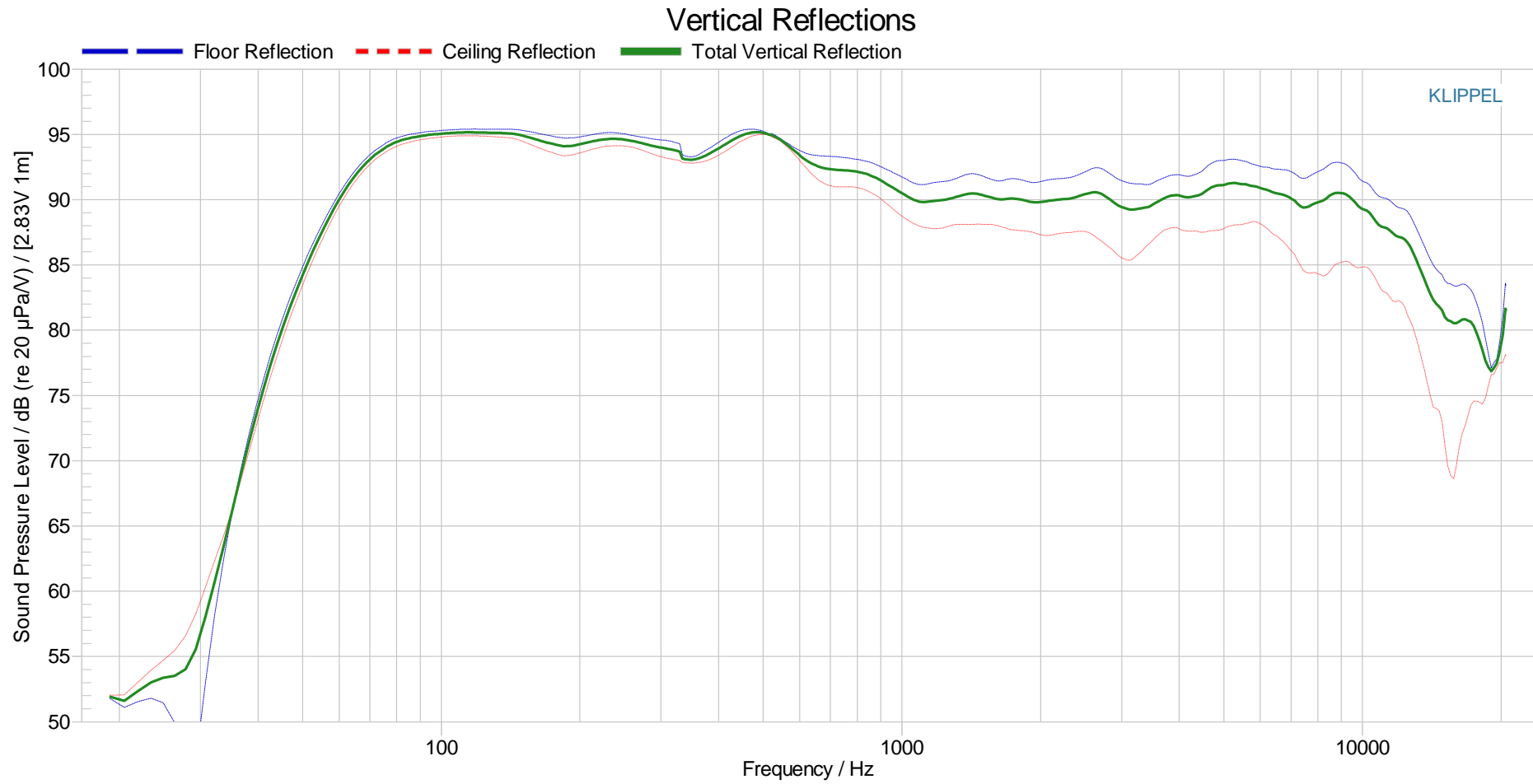
4.4. Horizontal Reflections

1/6 oct. Smoothing



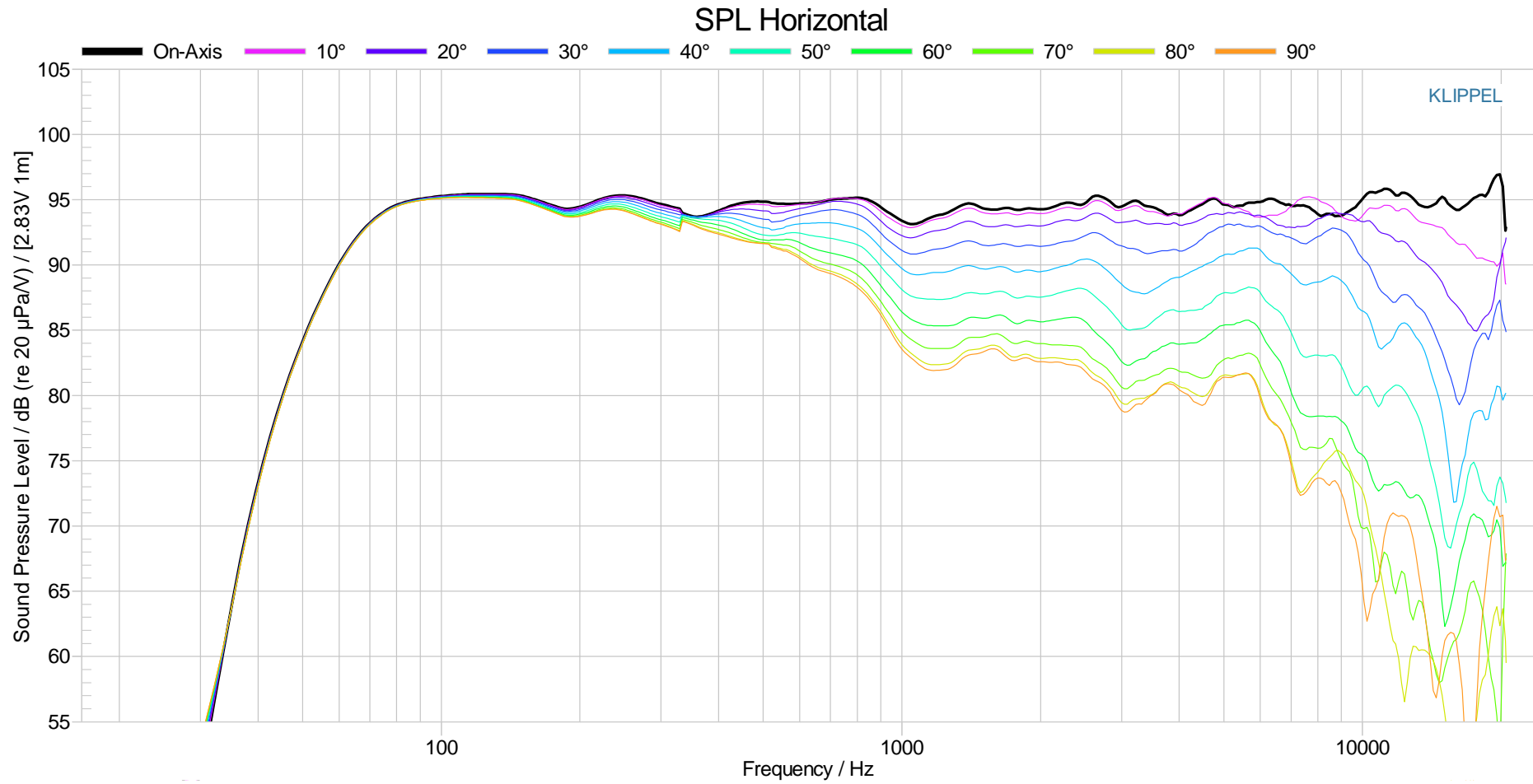
4.5. Vertical Reflections

1/6 oct. Smoothing



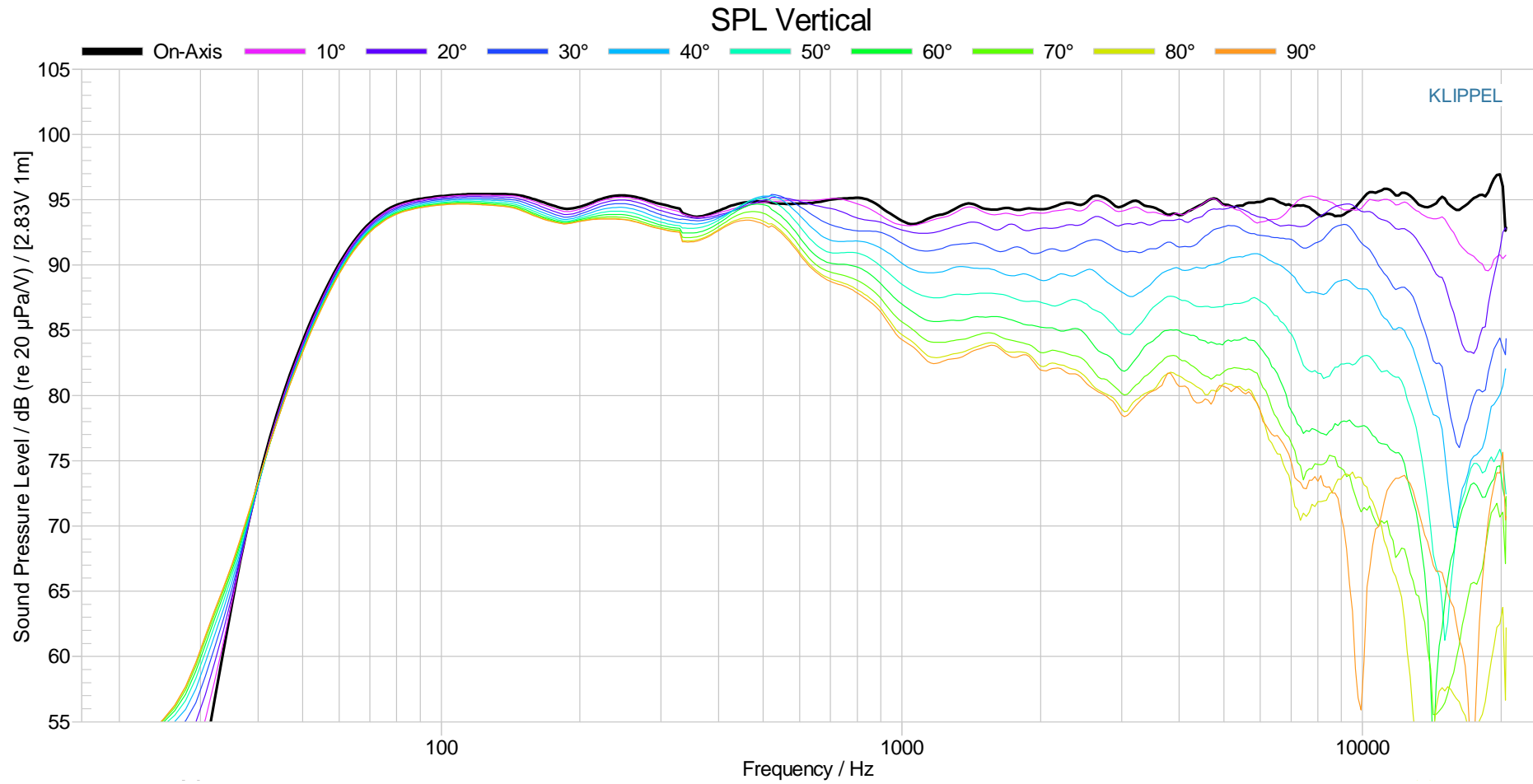
4.6. Horizontal Frequency Response

1/6 oct. Smoothing



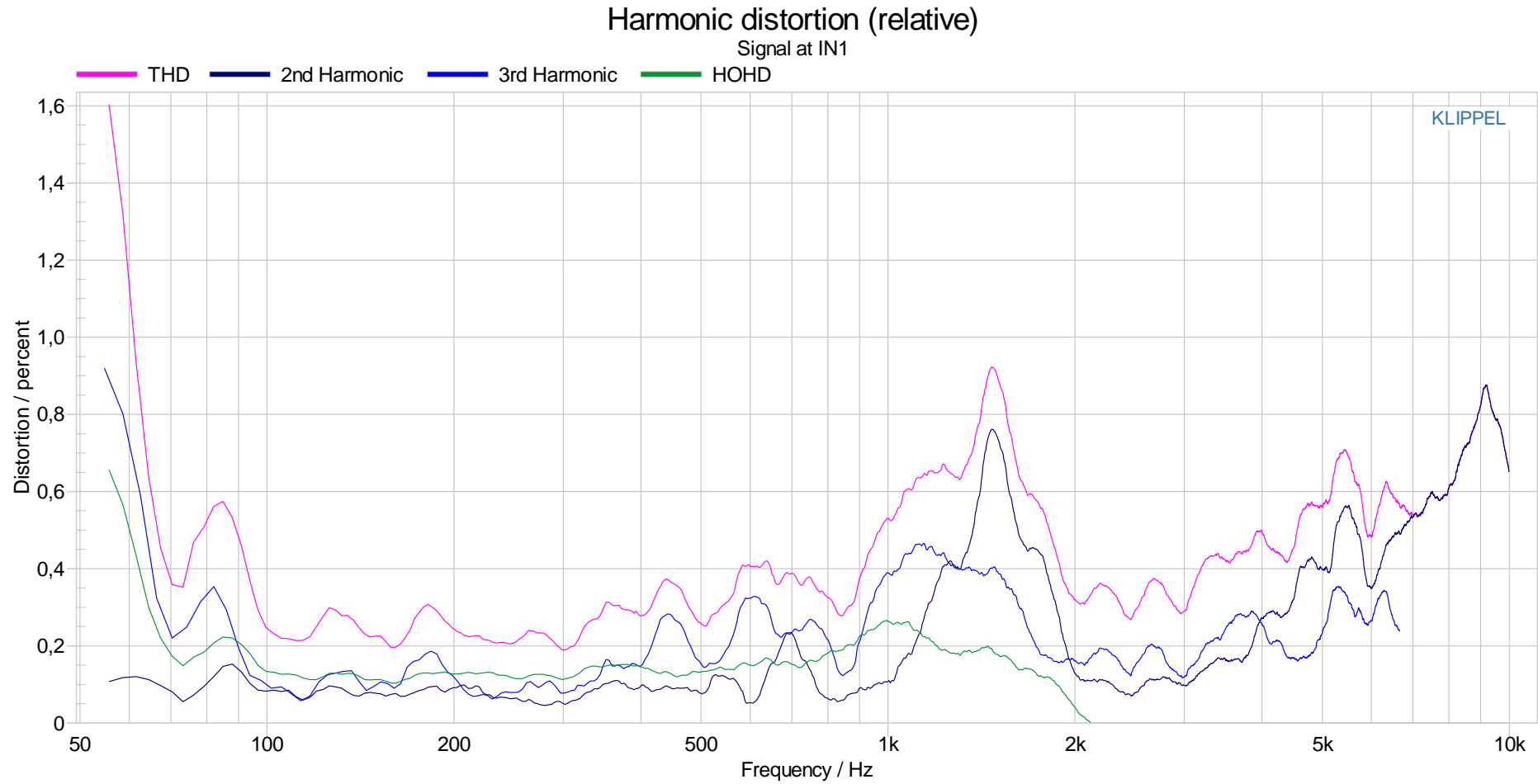
4.7. Vertical Frequency Response

1/6 oct. Smoothing



5. Harmonic Distortion

1/6 oct. Smoothing – 0dBu Stimulus



6. MTON Max SPL – 1s Stimulus

6.1. Results

Results of last passed measurement

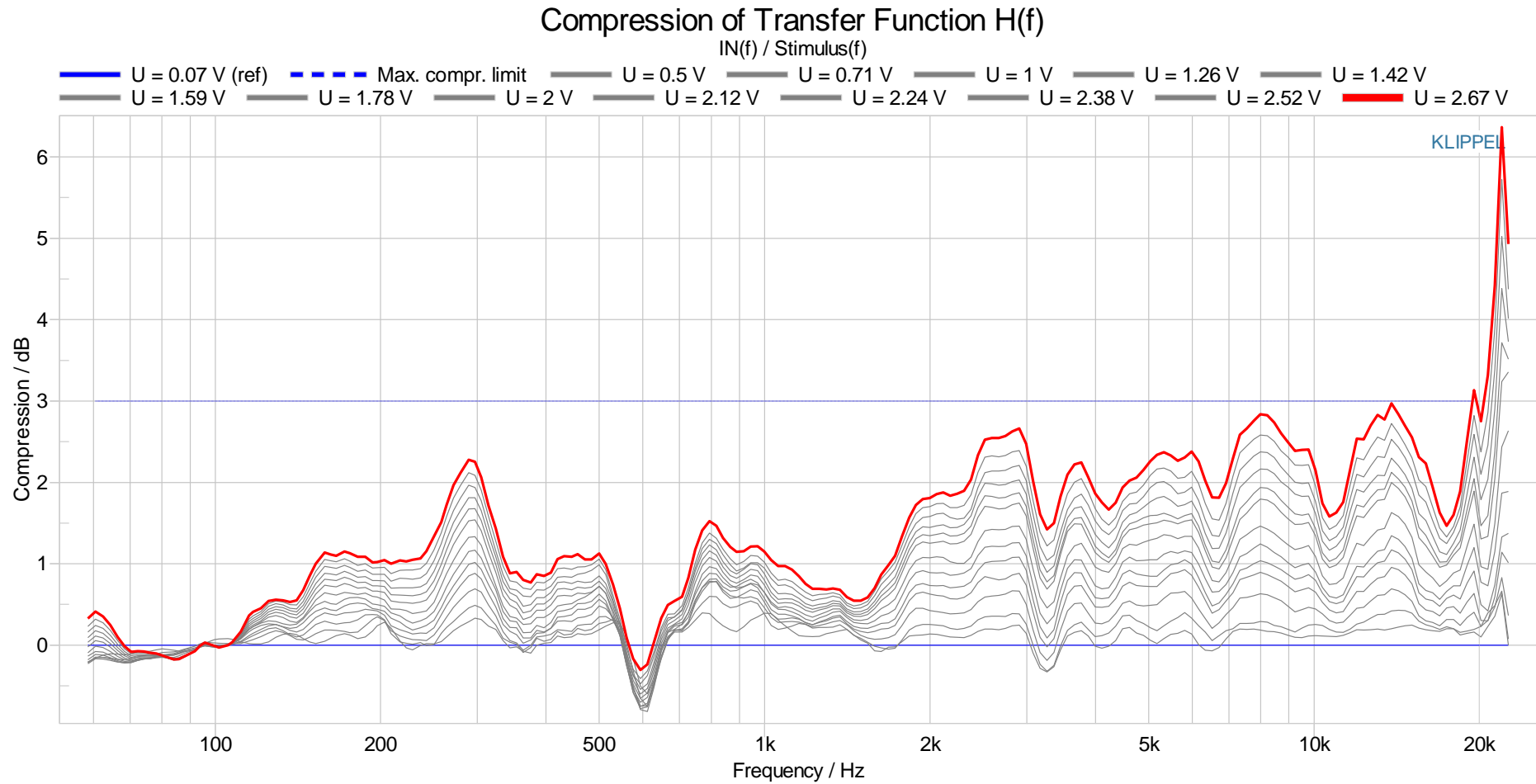
Parameter	Value	Unit	Description
U_{\max}	2.52	V	Root mean square of stimulus.
SPL_{\max}	124.78	dB	Sum level of fundamentals in microphone signal.
C_{\max}	2.82	dB	Max compression in the frequency range 61 - 19557 Hz.
MTD_{\max}	-20.5	dB	Maximum multi-tone distortion of microphone signal relative to mean value.

Stimulus properties

Parameter	Value	Unit	Description
f_{\min}	58.59	Hz	Lowest multi-tone frequency line
f_{\max}	22595.7	Hz	Highest multi-tone frequency line
t	0.51	s	Signal duration
K	3.01	-	Kurtosis
C	11.69	dB	Crest factor

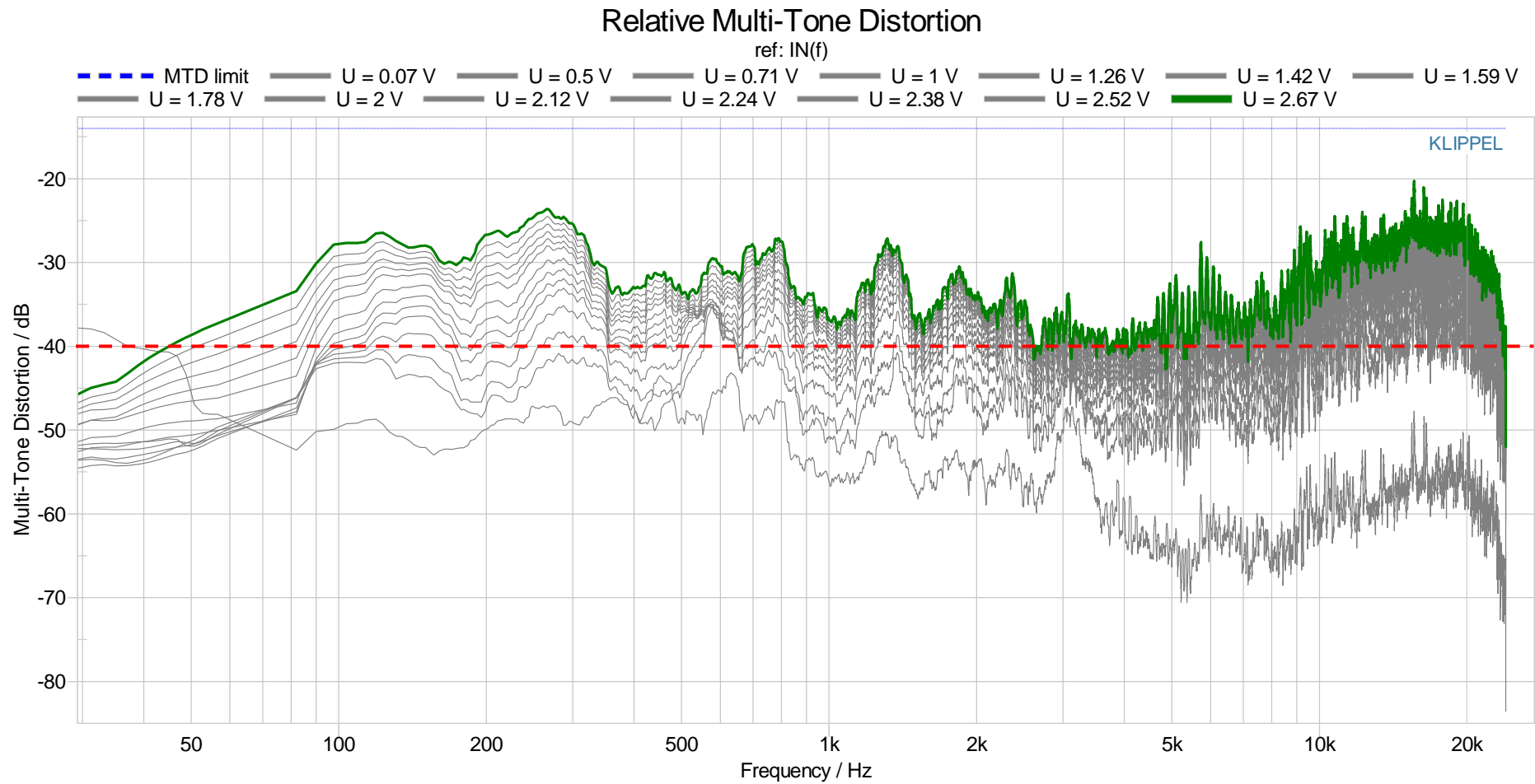
6.2. Compression Chart

-32dB Voltage Values – 1/6 Smoothing



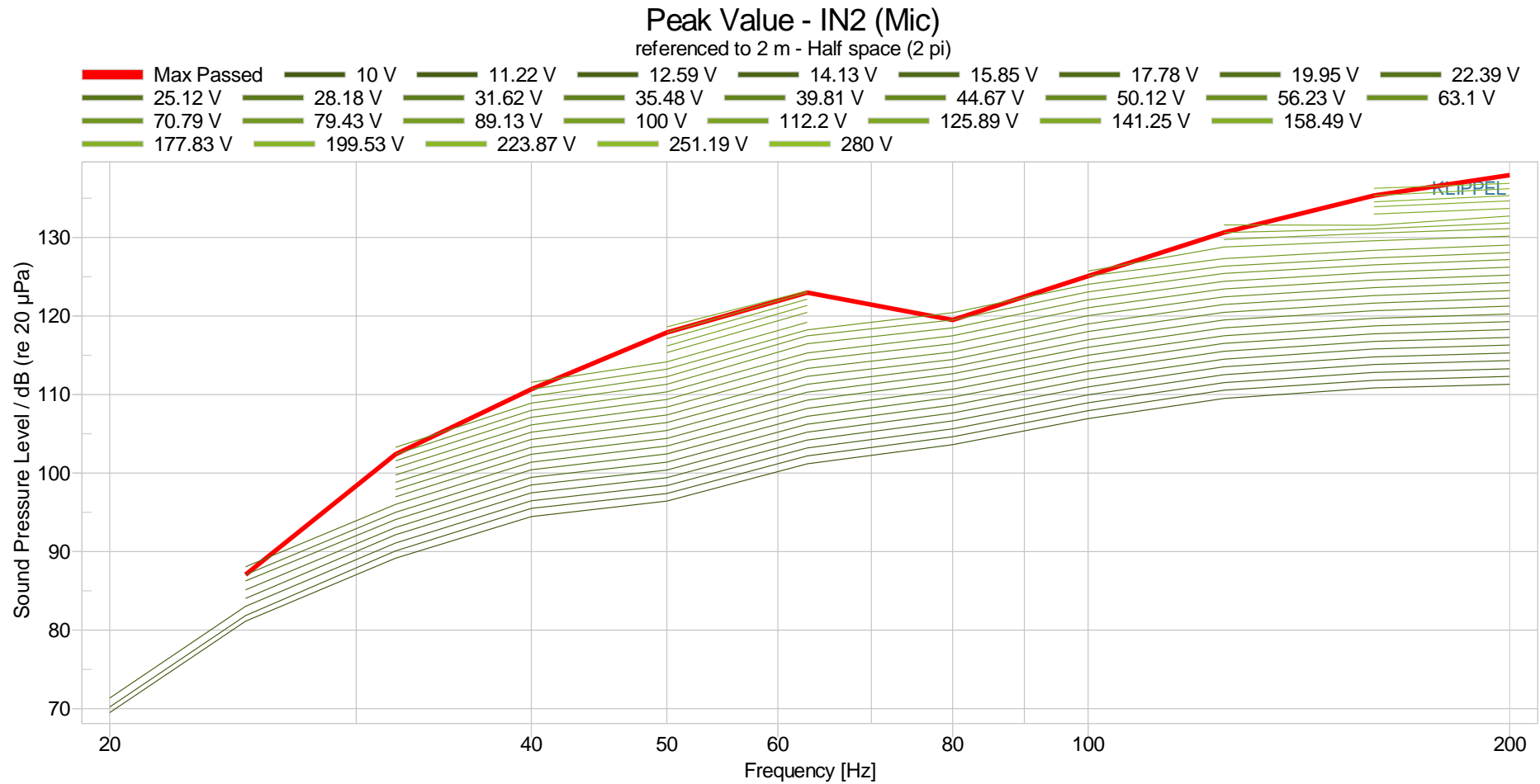
6.3. Multi Tone Distortion Chart

-32dB Voltage Values – No Smoothing



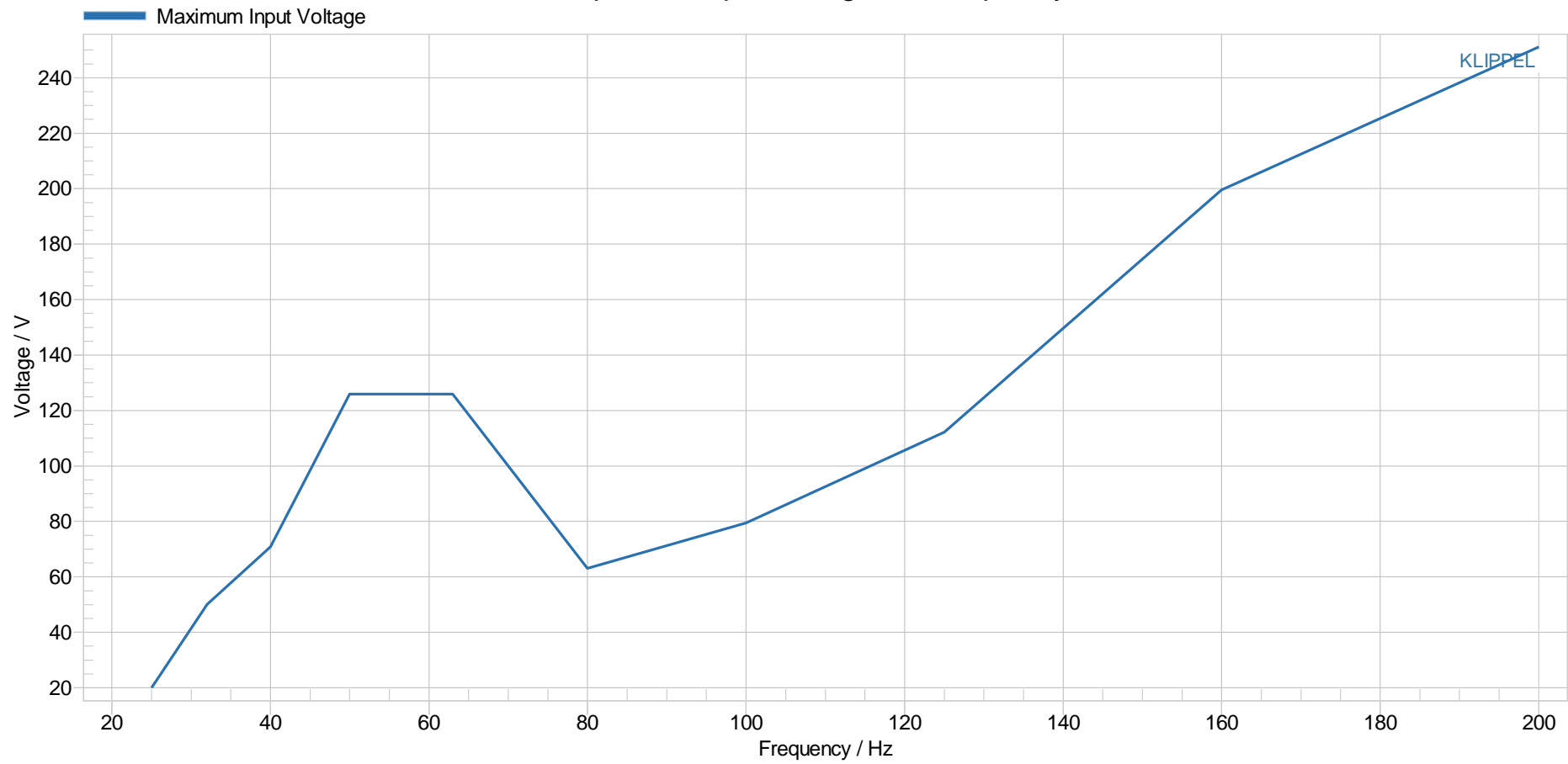
7. CEA2010B

7.1. Max Peak SPL



7.2. Max Peak Voltage

Maximum passed Input Voltage vs. Frequency Profile



7.3. THD on Burst

