

## RightMark Audio Analyzer test report

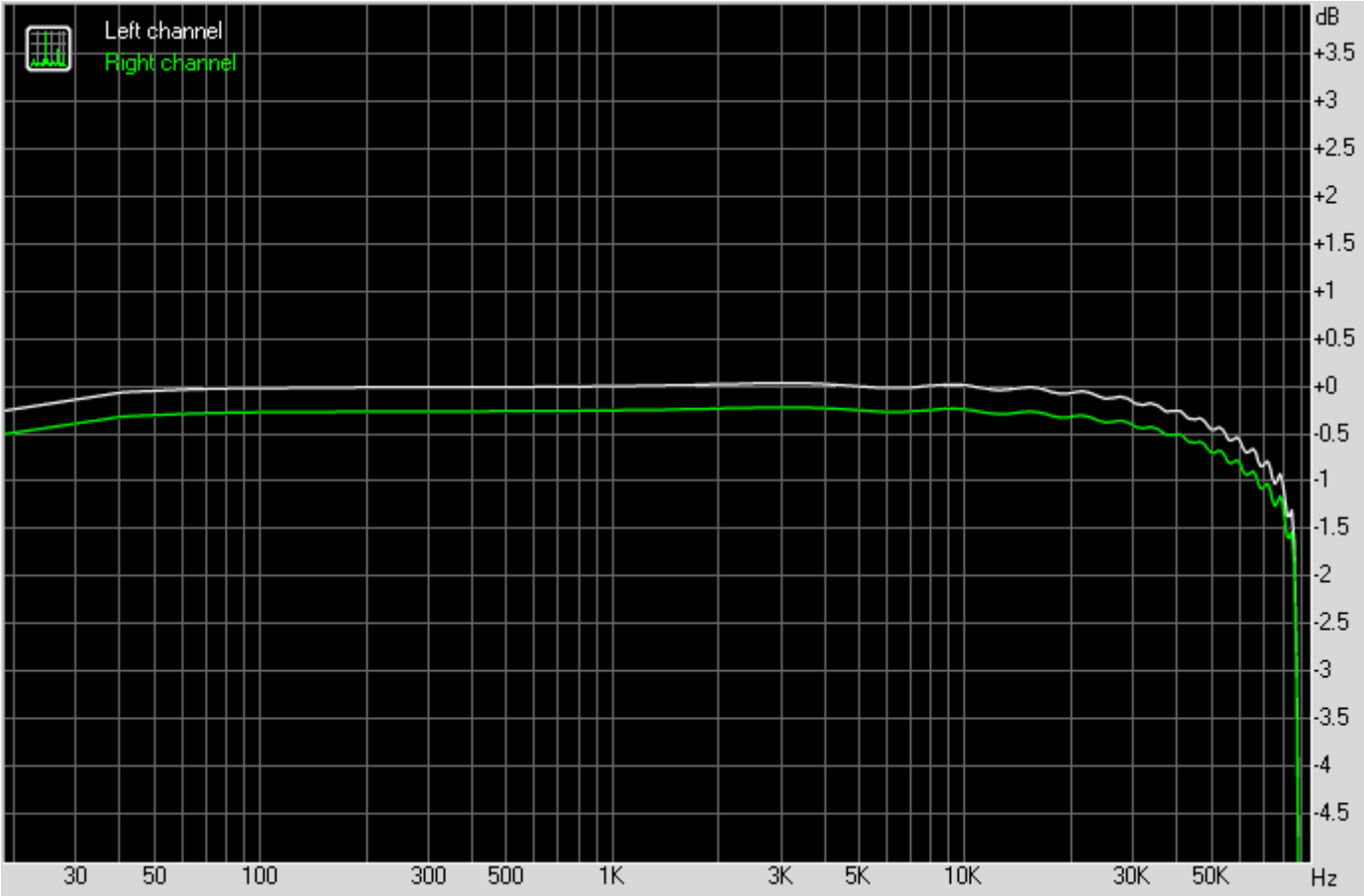
Testing device	[DirectSound] Primary Sound Driver
Sampling mode	24-bit, 192 kHz
Interface	DirectSound
Testing chain	External loopback (line-out - line-in)
RMAA Version	6.4.5

20 Hz - 20 kHz filter	ON
Normalize amplitude	ON
Level change	-1.3 dB / -1.6 dB
Mono mode	OFF
Calibration signal, Hz	1000
Polarity	correct/correct

### Summary

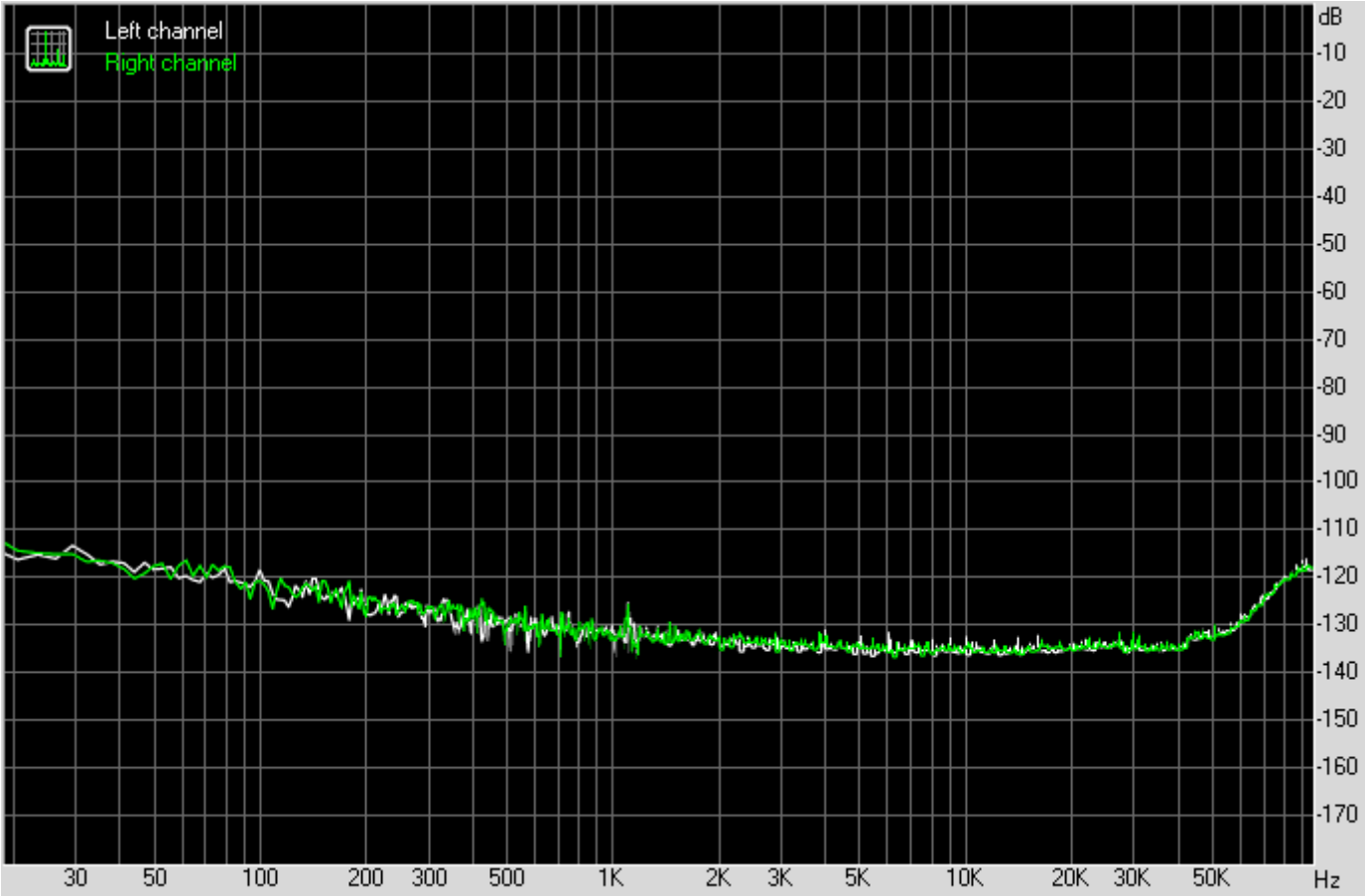
Frequency response (from 40 Hz to 15 kHz), dB	-0.22, -0.33	Excellent
Noise level, dB (A)	-102.0	Excellent
Dynamic range, dB (A)	102.0	Excellent
THD, %	0.00287	Excellent
THD + Noise, dB (A)	-87.7	Good
IMD + Noise, %	0.00730	Excellent
Stereo crosstalk, dB	-76.9	Very good
IMD at 10 kHz, %	0.00351	Excellent
<b>General performance</b>		<b>Very good</b>

### Frequency response



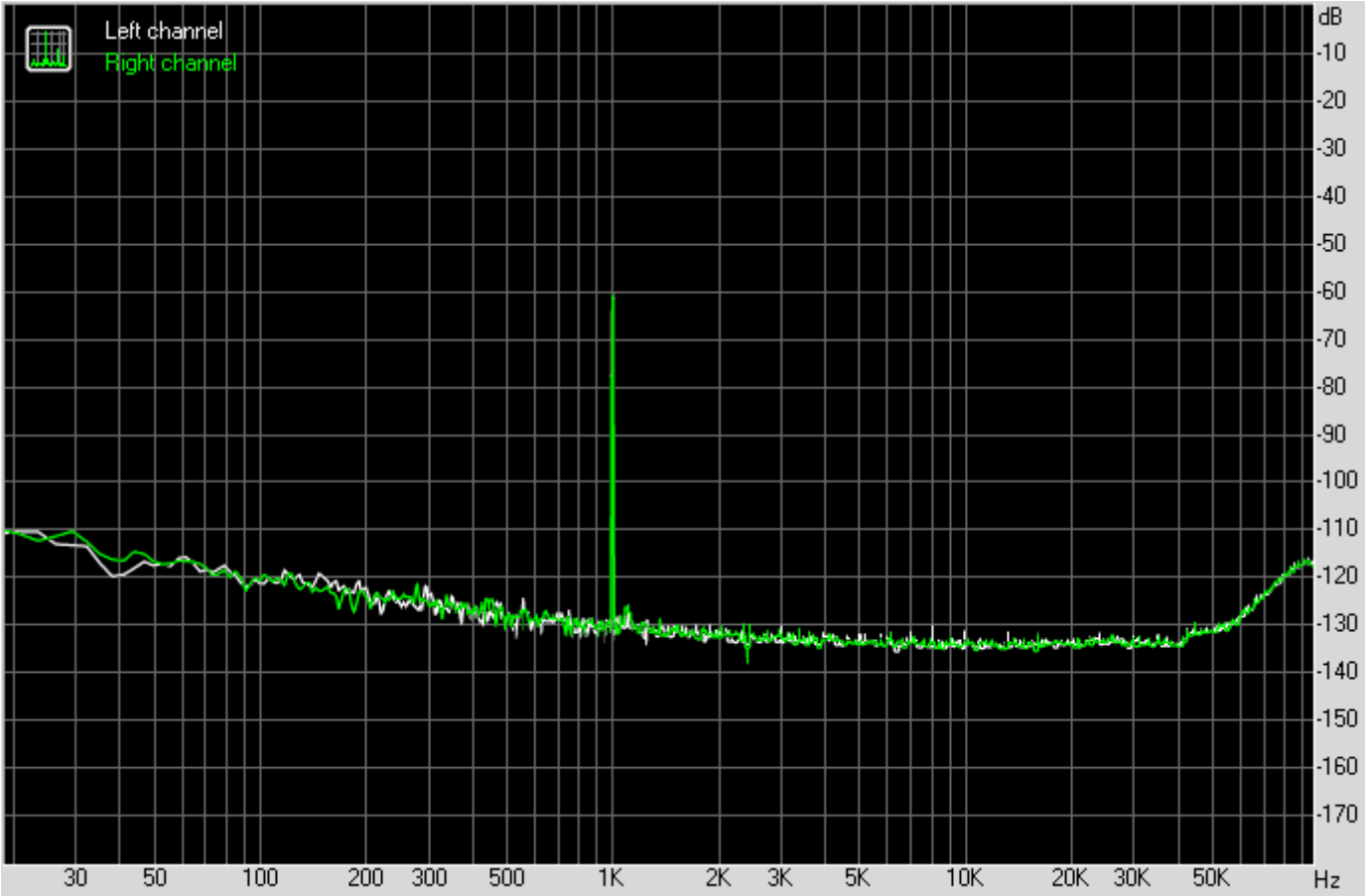
	Left	Right
From 20 Hz to 20 kHz, dB	-0.25, +0.03	-0.50, -0.22
From 40 Hz to 15 kHz, dB	-0.07, +0.03	-0.33, -0.22

Noise level



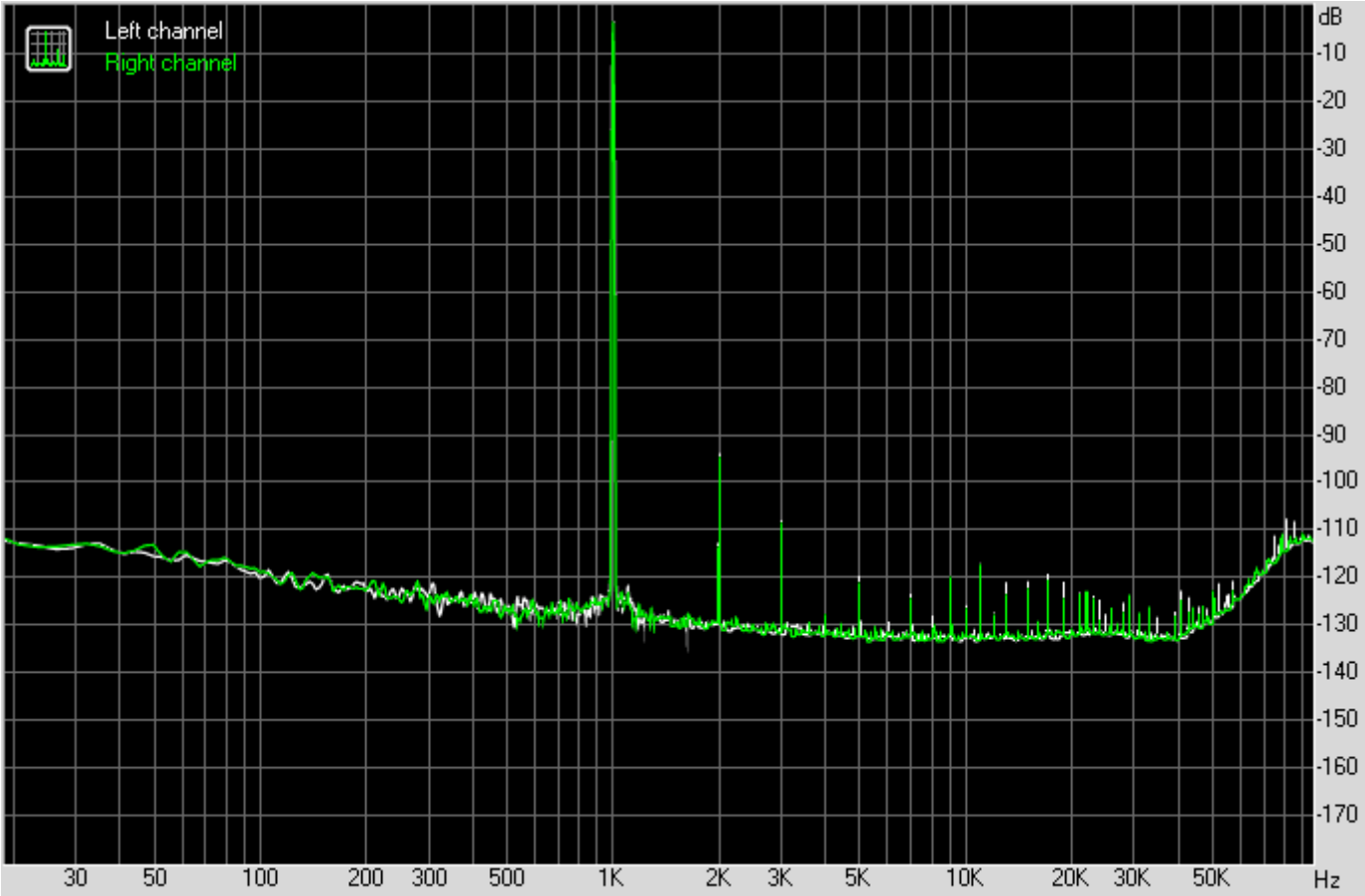
	Left	Right
RMS power, dB	-99.8	-99.9
RMS power (A-weighted), dB	-102.0	-102.0
Peak level, dB FS	-72.5	-73.1
DC offset, %	-0.0	-0.0

Dynamic range



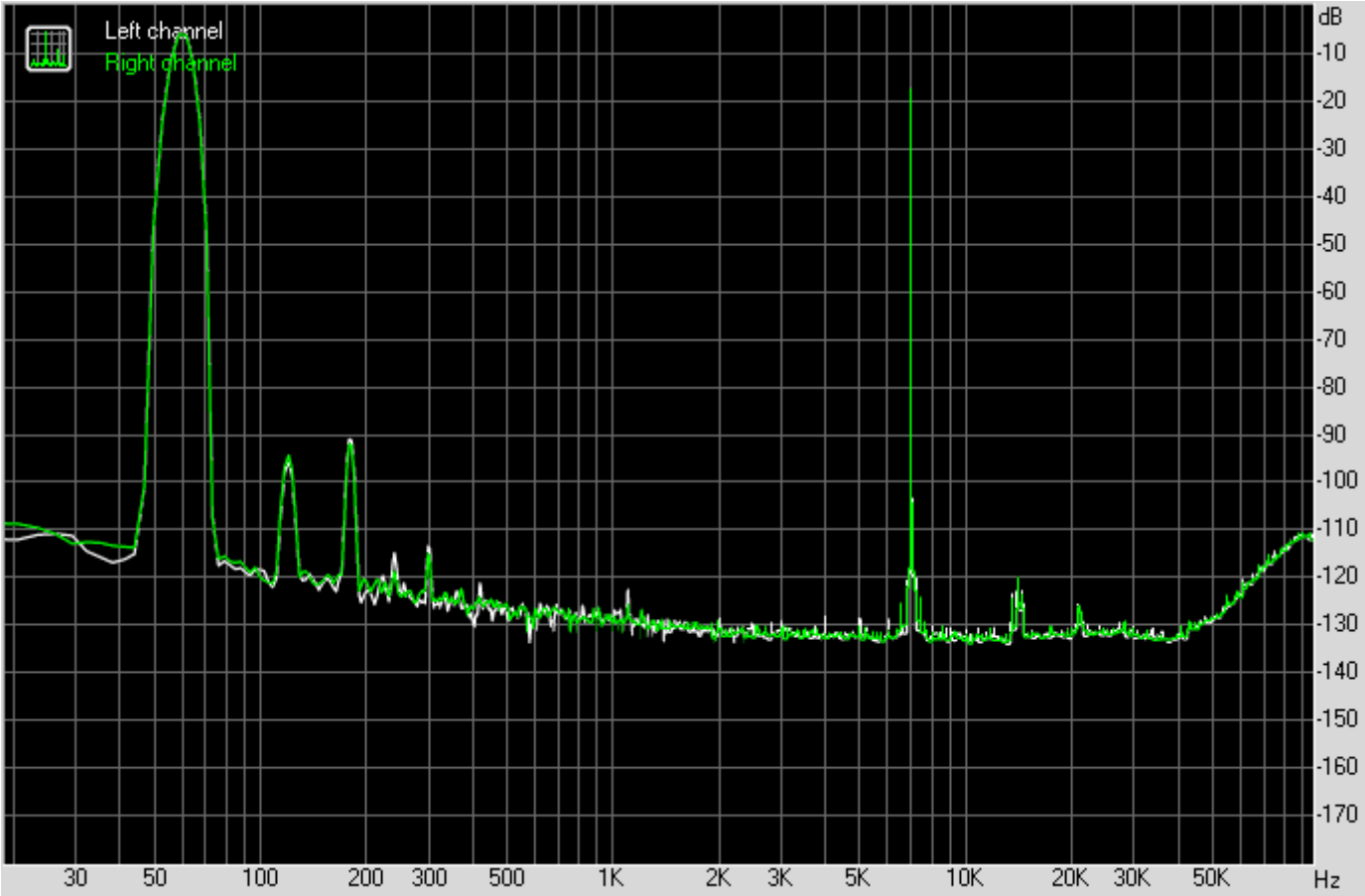
	Left	Right
Dynamic range, dB	+99.4	+99.5
Dynamic range (A-weighted), dB	+102.1	+101.9
DC offset, %	-0.00	-0.00

**THD + Noise (at -3 dB FS)**



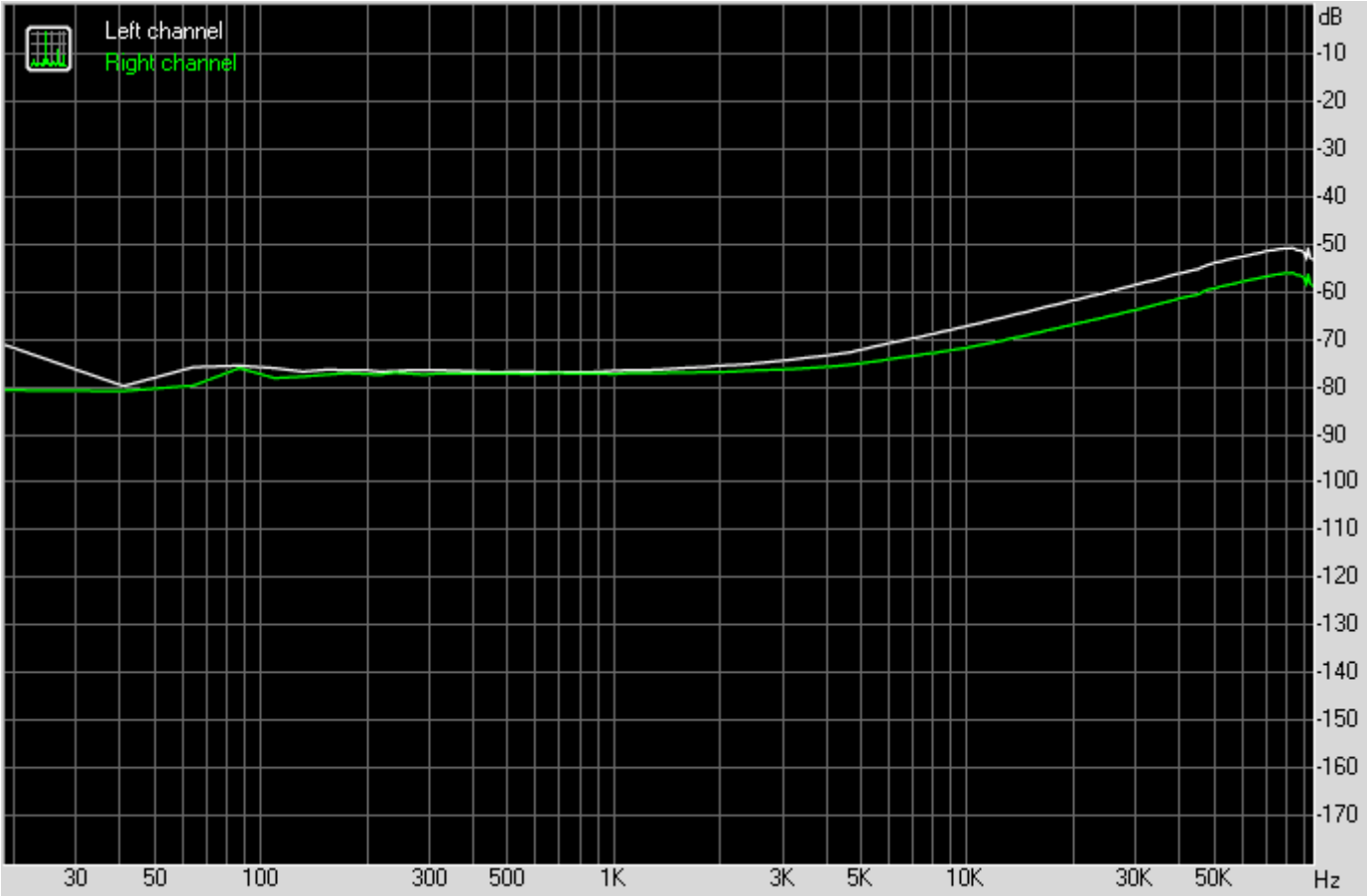
	Left	Right
THD, %	0.00294	0.00279
THD + Noise, %	0.00361	0.00360
THD + Noise (A-weighted), %	0.00420	0.00403

Intermodulation distortion



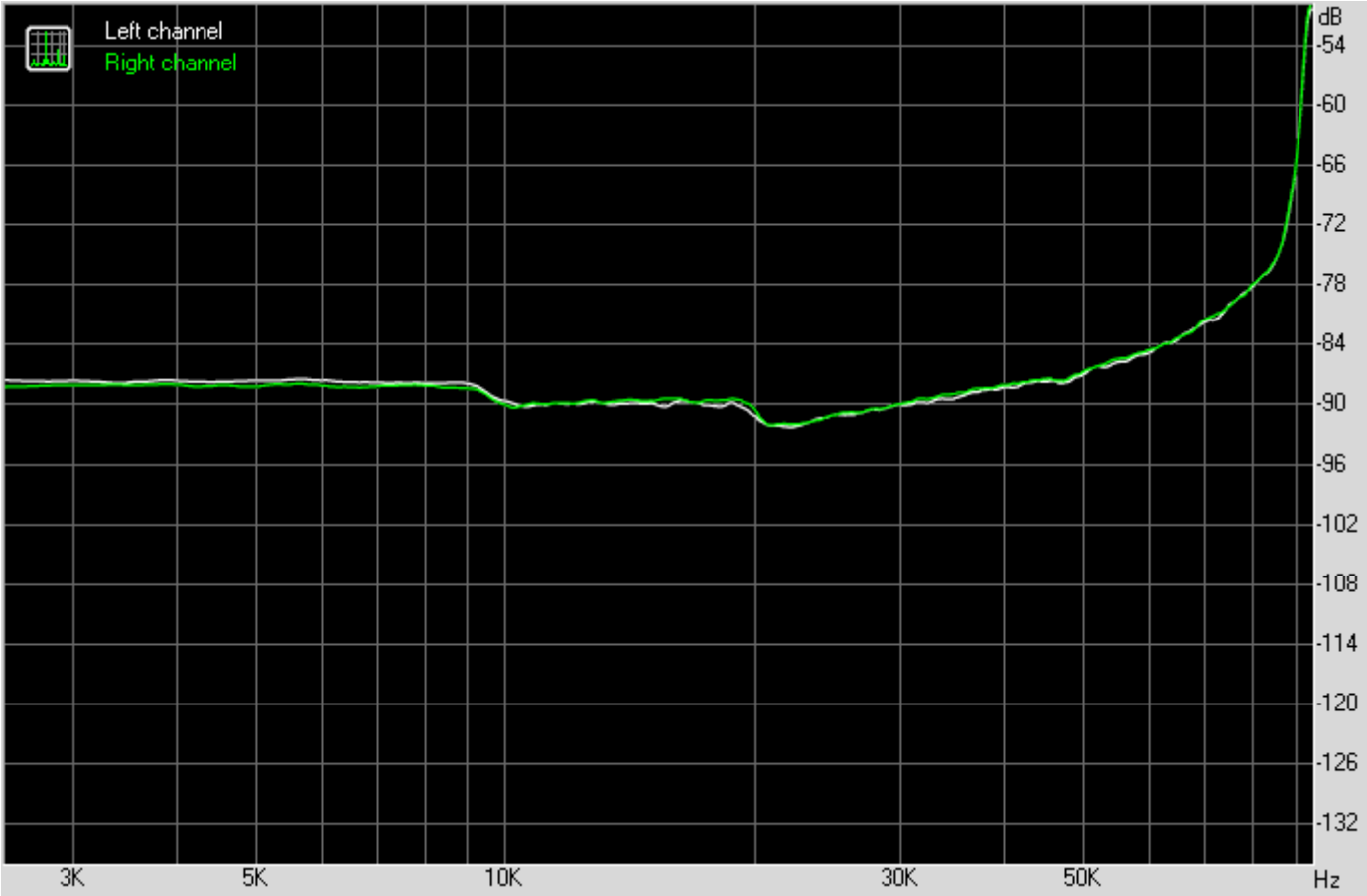
	Left	Right
IMD + Noise, %	0.00761	0.00699
IMD + Noise (A-weighted), %	0.00335	0.00318

Stereo crosstalk



	Left	Right
Crosstalk at 100 Hz, dB	-75	-76
Crosstalk at 1000 Hz, dB	-76	-76
Crosstalk at 10000 Hz, dB	-66	-71

IMD (swept tones)



	Left	Right
IMD + Noise at 5000 Hz,	0.00418	0.00390
IMD + Noise at 10000 Hz,	0.00330	0.00315
IMD + Noise at 15000 Hz,	0.00321	0.00331