

RightMark Audio Analyzer test report

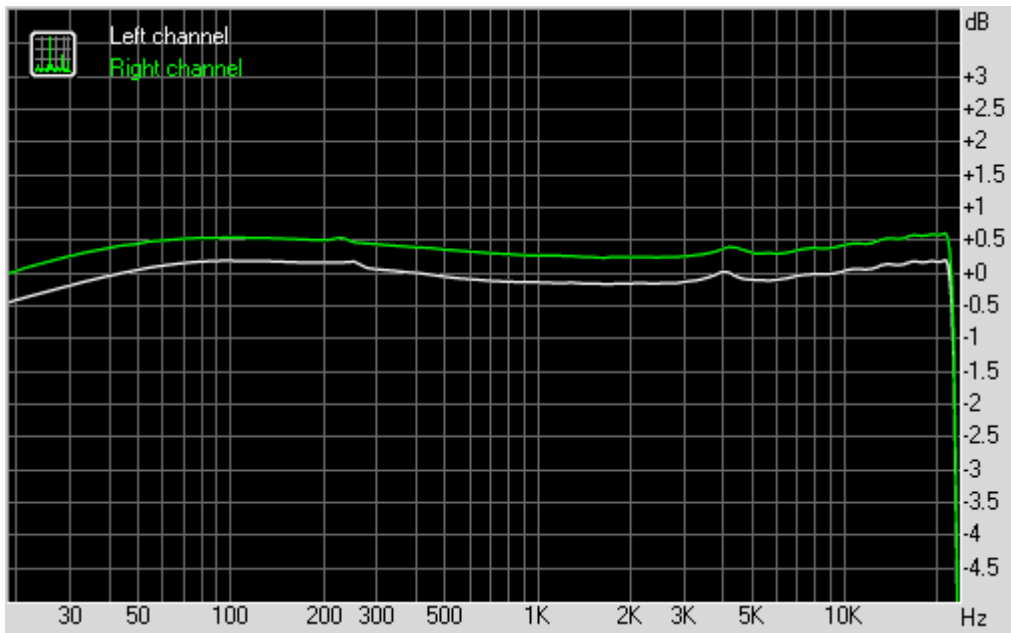
Testing device	Hybrid headamp
Sampling mode	24-bit, 48 kHz
Interface	
Testing chain	External loopback (line-out - line-in)
RMAA Version	6.4.0

20 Hz - 20 kHz filter	ON
Normalize amplitude	ON
Level change	-0.5 dB / -0.1 dB
Mono mode	OFF
Calibration signal, Hz	1000
Polarity	correct/correct

Summary

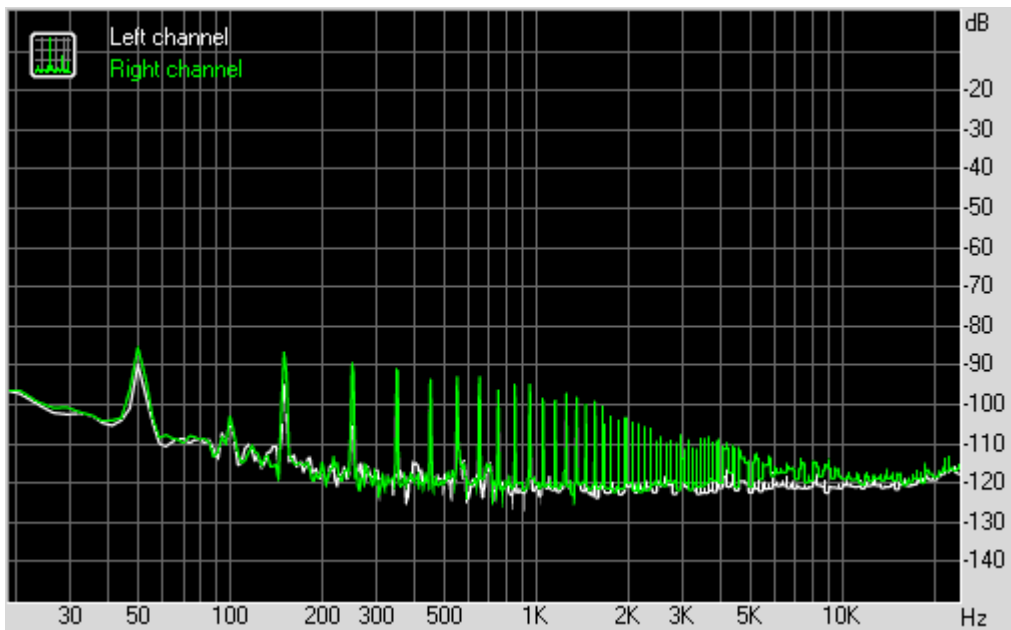
Frequency response (from 40 Hz to 15 kHz), dB	+0.19, -0.17	Very good
Noise level, dB (A)	-85.8	Good
Dynamic range, dB (A)	85.7	Good
THD, %	0.054	Average
THD + Noise, dB (A)	-63.0	Poor
IMD + Noise, %	0.109	Average
Stereo crosstalk, dB	-73.5	Good
IMD at 10 kHz, %	0.108	Average
General performance		Good

Frequency response



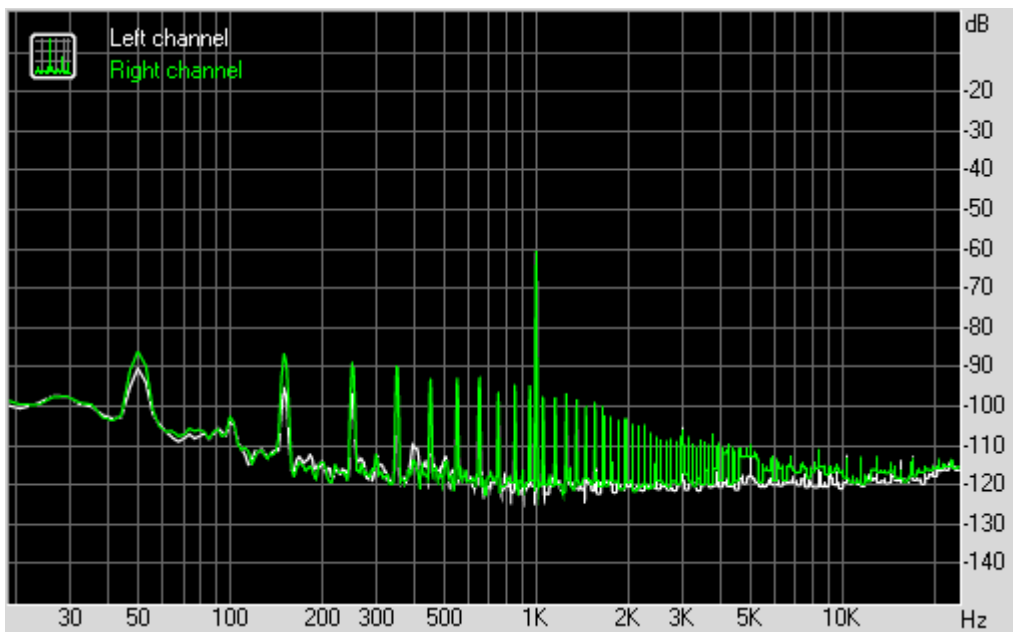
	Left	Right
From 20 Hz to 20 kHz, dB	-0.42, +0.19	+0.03, +0.59
From 40 Hz to 15 kHz, dB	-0.17, +0.19	+0.23, +0.54

Noise level



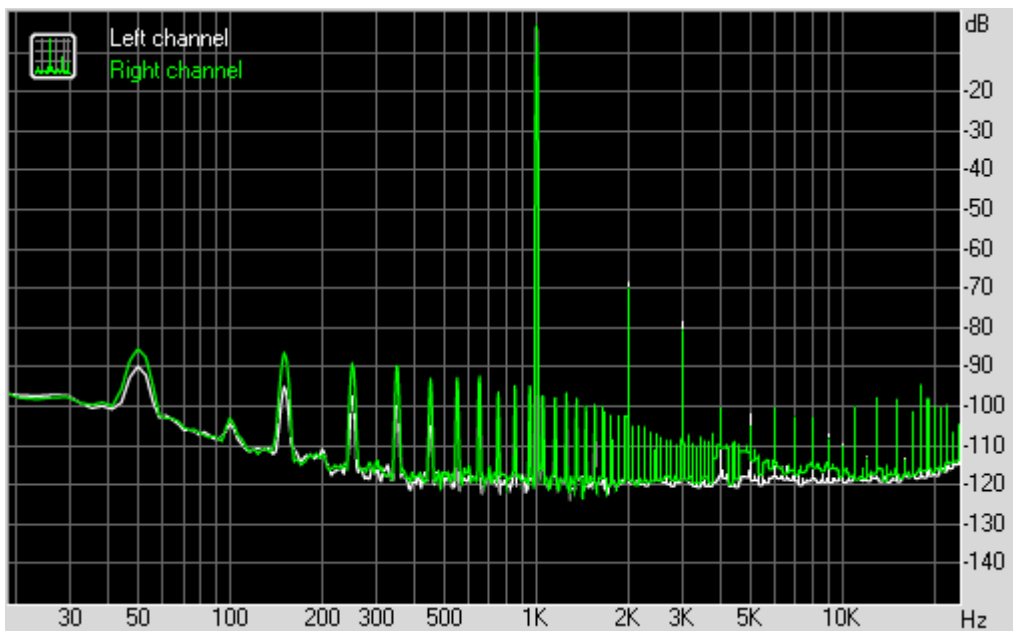
	Left	Right
RMS power, dB	-84.7	-80.7
RMS power (A-weighted), dB	-87.8	-83.9
Peak level, dB FS	-68.4	-65.5
DC offset, %	-0.0	-0.0

Dynamic range



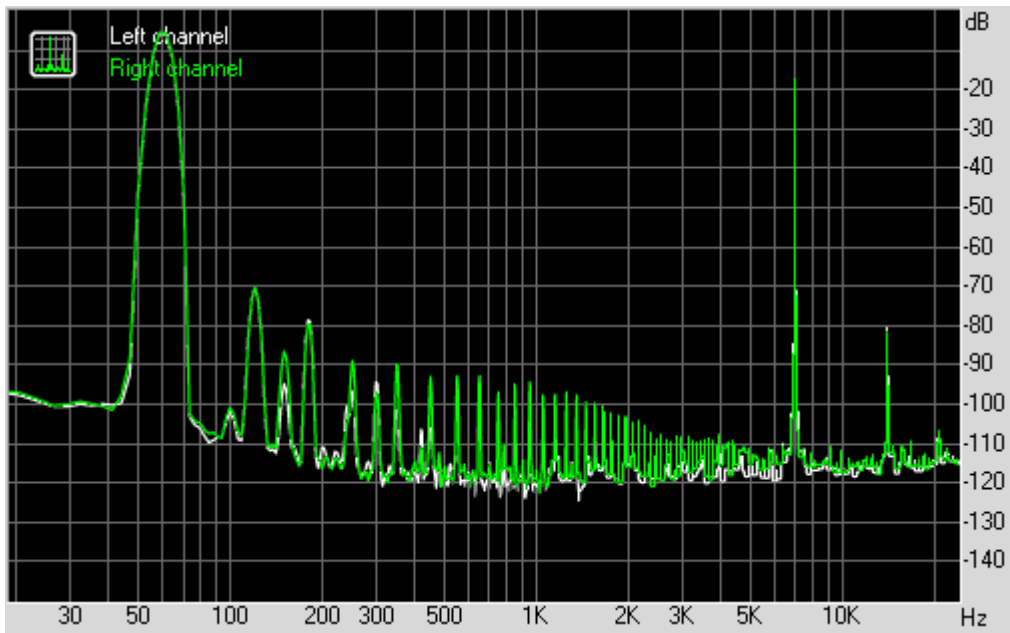
	Left	Right
Dynamic range, dB	+84.5	+80.8
Dynamic range (A-weighted), dB	+87.6	+83.8
DC offset, %	-0.00	-0.00

THD + Noise (at -3 dB FS)



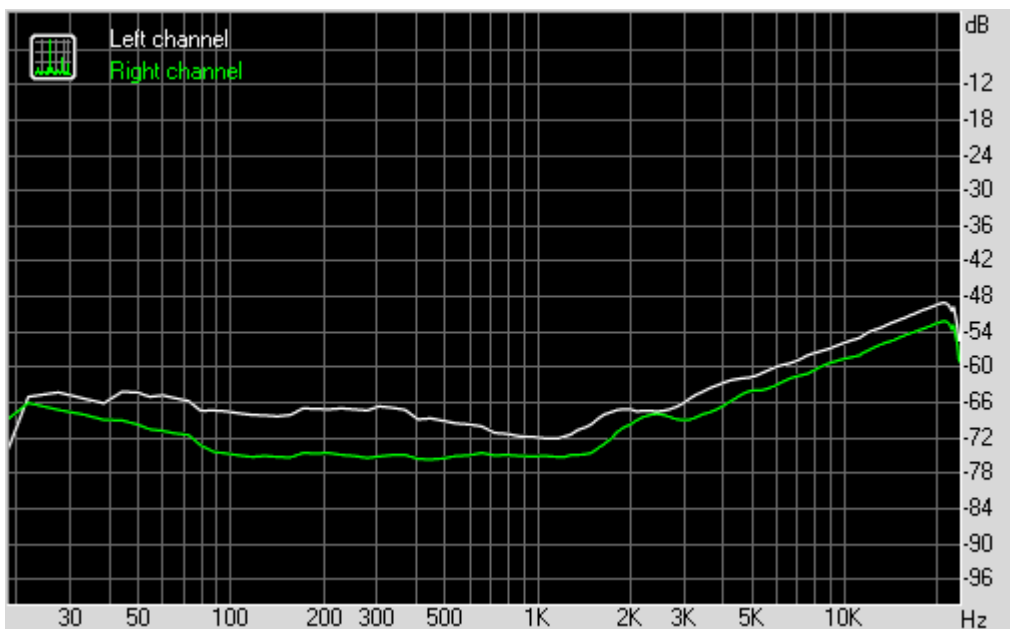
	Left	Right
THD, %	+0.0604	+0.0469
THD + Noise, %	+0.0616	+0.0503
THD + Noise (A-weighted), %	+0.0791	+0.0623

Intermodulation distortion



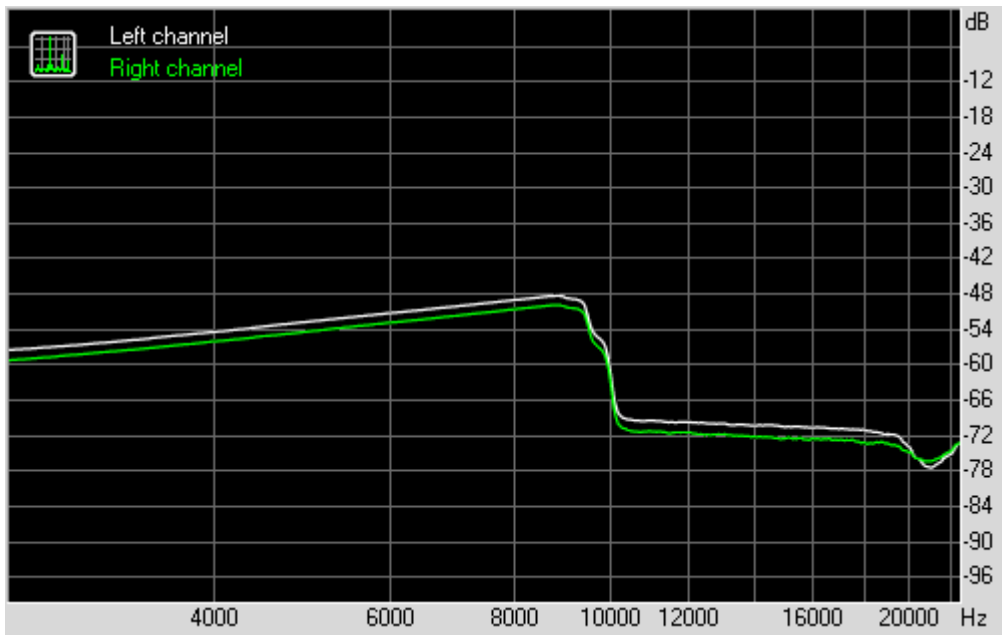
	Left	Right
IMD + Noise, %	+0.1158	+0.1012
IMD + Noise (A-weighted), %	+0.0996	+0.0840

Stereo crosstalk



	Left	Right
Crosstalk at 100 Hz, dB	-67	-74
Crosstalk at 1000 Hz, dB	-71	-74
Crosstalk at 10000 Hz, dB	-55	-58

IMD (swept tones)



	Left	Right
IMD + Noise at 5000 Hz,	0.2338	0.1928
IMD + Noise at 10000 Hz,	0.0917	0.0753
IMD + Noise at 15000 Hz,	0.0298	0.0237