

Evaluation Report

Corsair Obsidian 500D



TEST EQUIPMENT

Test Environment	Hemi-Anechoic Chamber with 6 dB(A) noise floor
Conditions	25(±2) degrees Celsius, 40-50% humidity
Sound Analyzer	Bruel & Kjaer 2270-S G4 & 2250-L G4
Microphone	Bruel & Kjaer Type 4955-A
Mic Calibrator	Bruel & Kjaer Type 4231
Data Logger	Picoscope TC-08

All data and graphs included in this test report can be used by any individual on the following conditions:

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TECHNICAL SPECIFICATIONS TABLE

Brand	Corsair
Product Name	Obsidian 500D
Type	Midi Tower
Dimensions (LxWxH)	502 x 233 x 508mm
Motherboard Support	Mini-ITX, Micro-ATX, ATX
Removable Motherboard Tray	No
Front Door/Cover	No
Materials Body	Steel, Plastic, Sound Dampening Material
Materials Side Panel	Left: Tempered Glass Right: Sound-Dampened Steel
Expansion Slots	7x
Drive Bays	3.5 " : 2x Internal 2.5" : 3x Internal
I/O Panel	2x USB 3.0, 1x USB 3.1 Type-C, 1x Headphone, 1x Microphone
Pre-installed Fan(s)	Front: 1x 120mm (Corsair RWF0016) Rear: 1x 120mm (Corsair RWF0016)
Fan Support	Front: 3x 120/140mm Top: 2x 120/140mm Rear: 1x 120mm
Fan Bearing Type	No Info
Fan Power Connector	3-Pin
Fan/LED Controller	No
Radiator Support	Front: 120/140/240/280/360/420mm Top: 120/140/240/280mm Rear: 120mm
CPU Cooler Height (Max)	170mm
VGA Length (Max)	370mm
PSU Length (Max)	225mm
Cable Management Support	Yes
Dust Filters	Top, Front, Bottom
PSU Support	Bottom Mount, ATX
Weight	10.5 kg
Warranty	2-year

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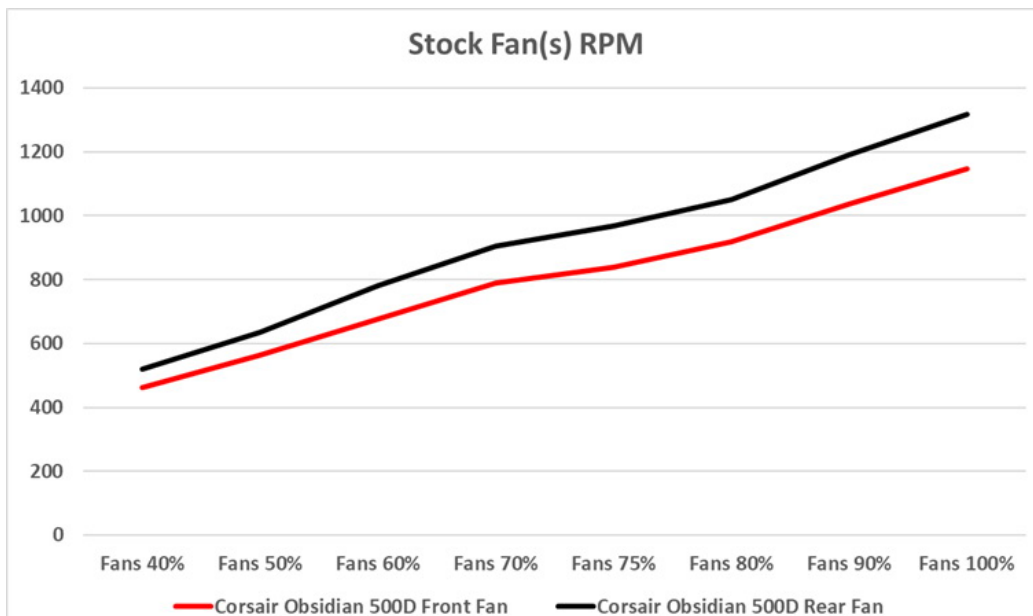
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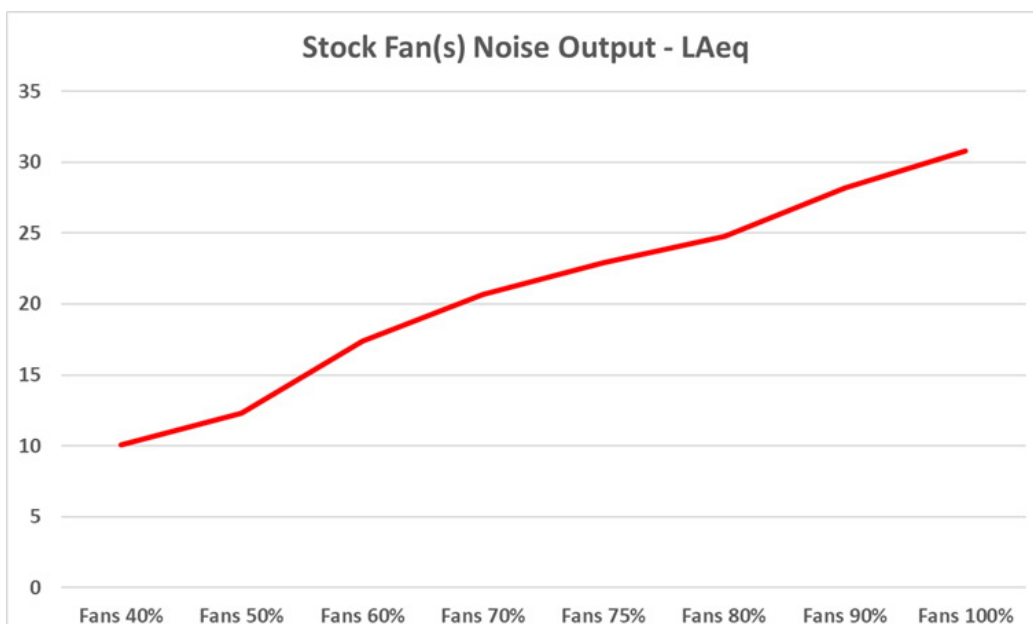
Stock Fan(s) RPM



INFO

Stock Fan Speed from 40% to 100%

Stock Fan(s) Noise Output - LAeq



INFO

Stock Fan Noise Output from 40% to 100%

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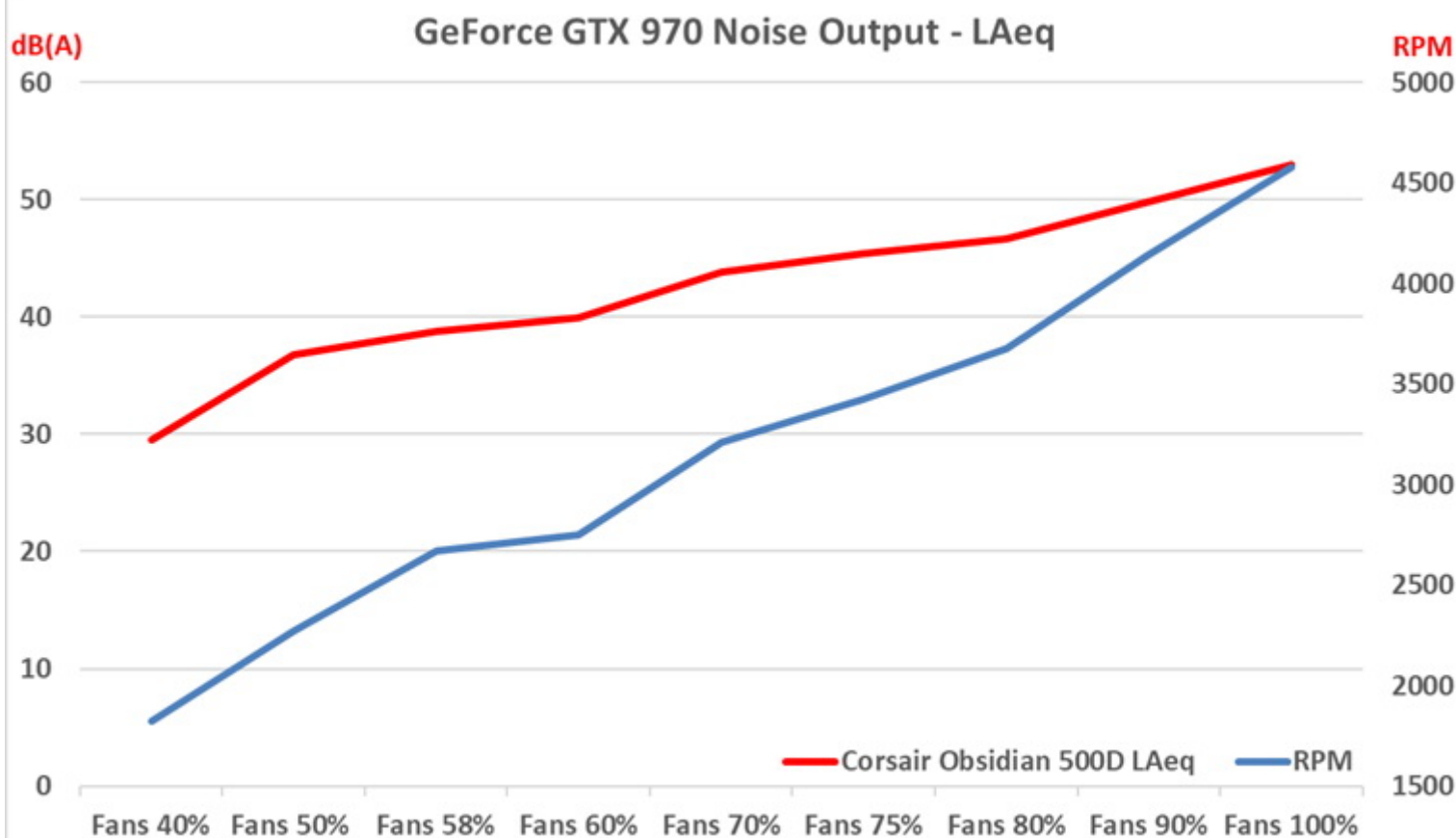
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GPU Fan(s) Noise Output - LAeq



NVIDIA GeForce GTX 970 Noise Output from 40% to 100% Fan Speed

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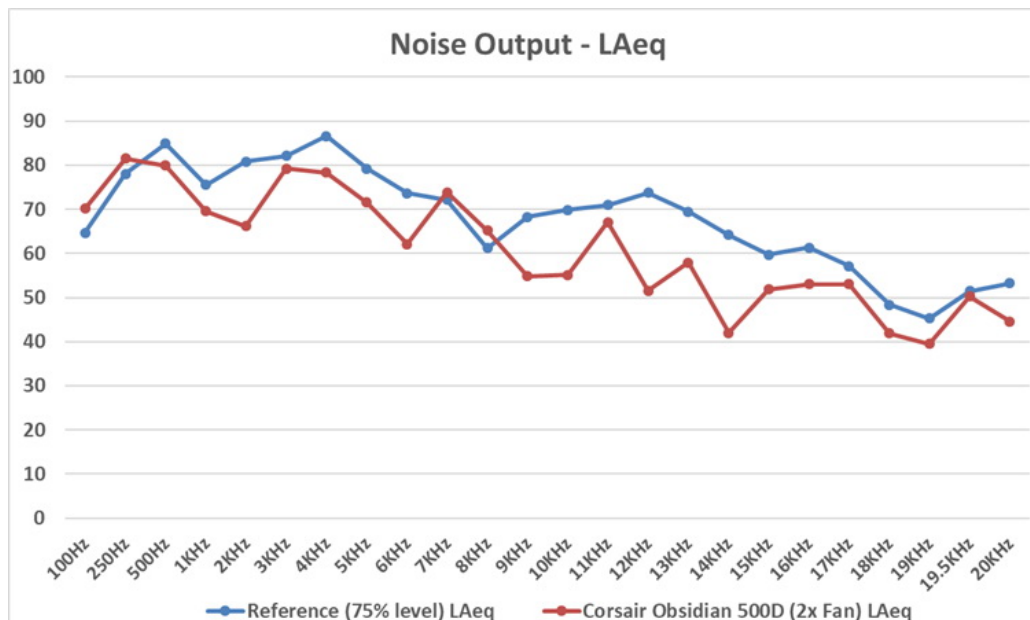
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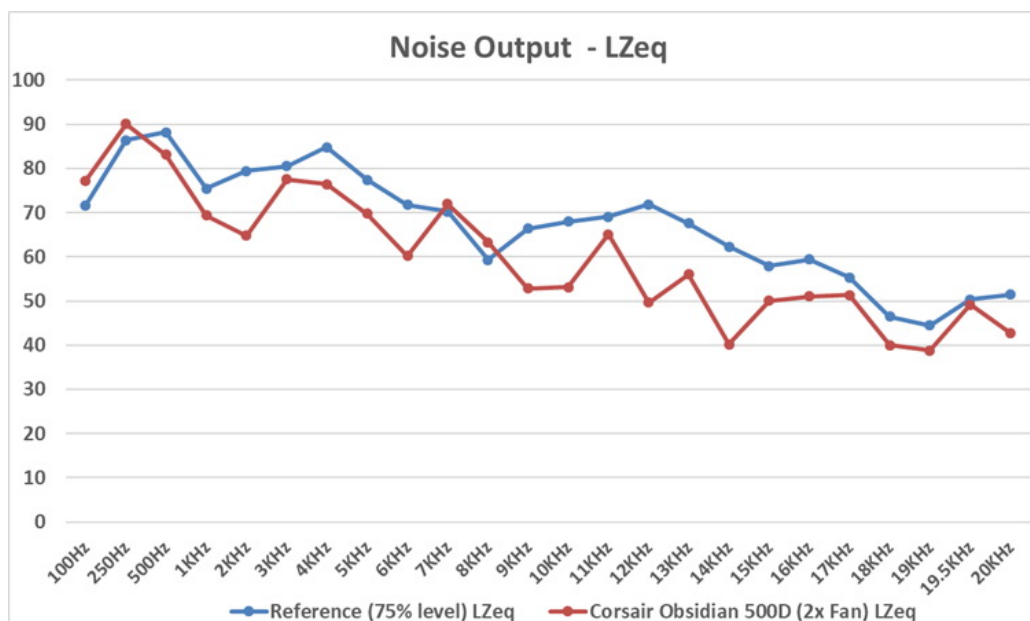
Noise Output LAeq - Test Tones



INFO

Noise Output in DB(A) from 100 Hz to 20 kHz

Noise Output LZeq - Test Tones



INFO

Noise Output in DB(Z) from 100 Hz to 20 kHz

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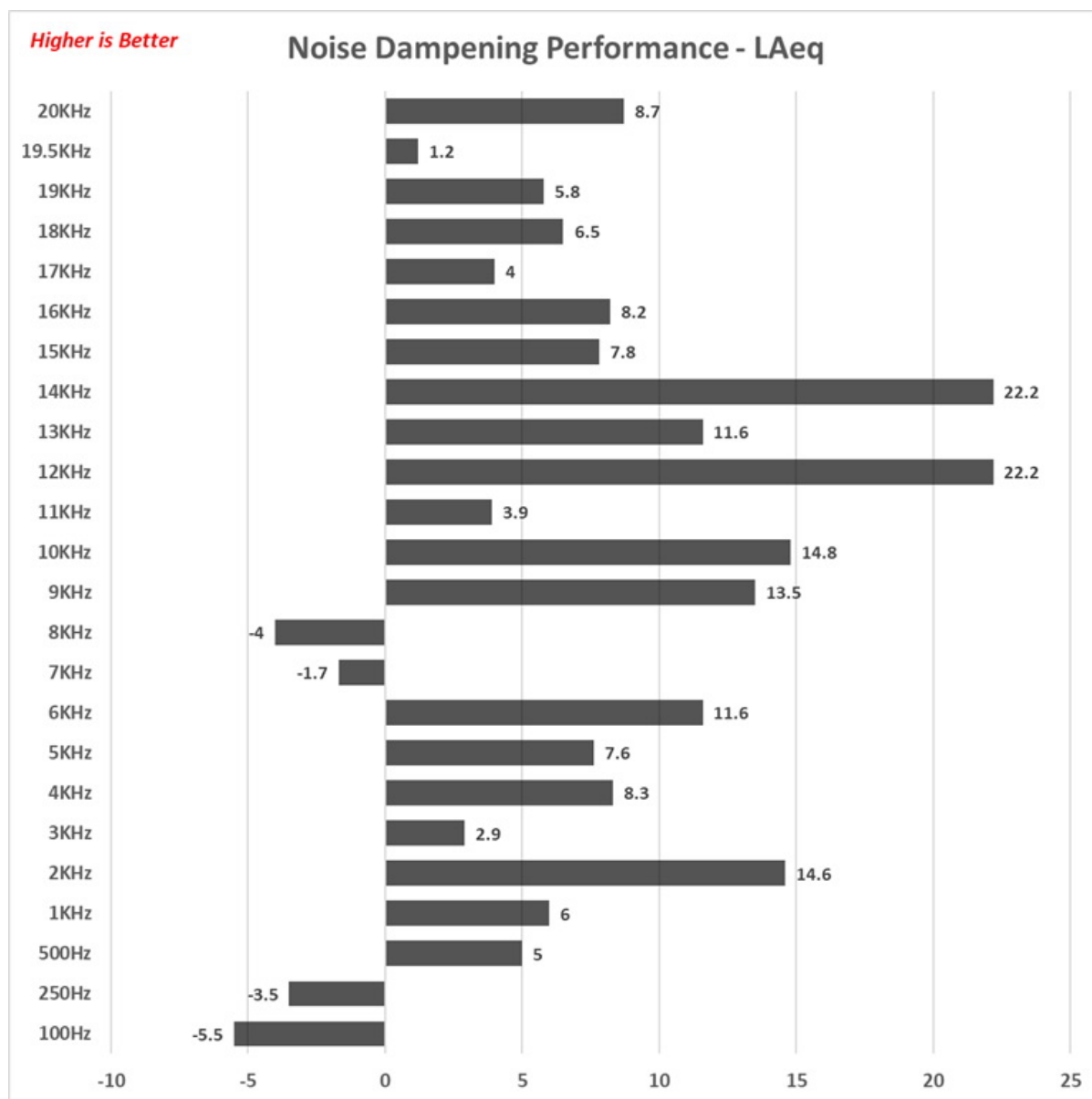
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Noise Dampening Performance LAeq - Test Tones



Noise Dampening Performance in dB(A) from 100 Hz to 20 kHz

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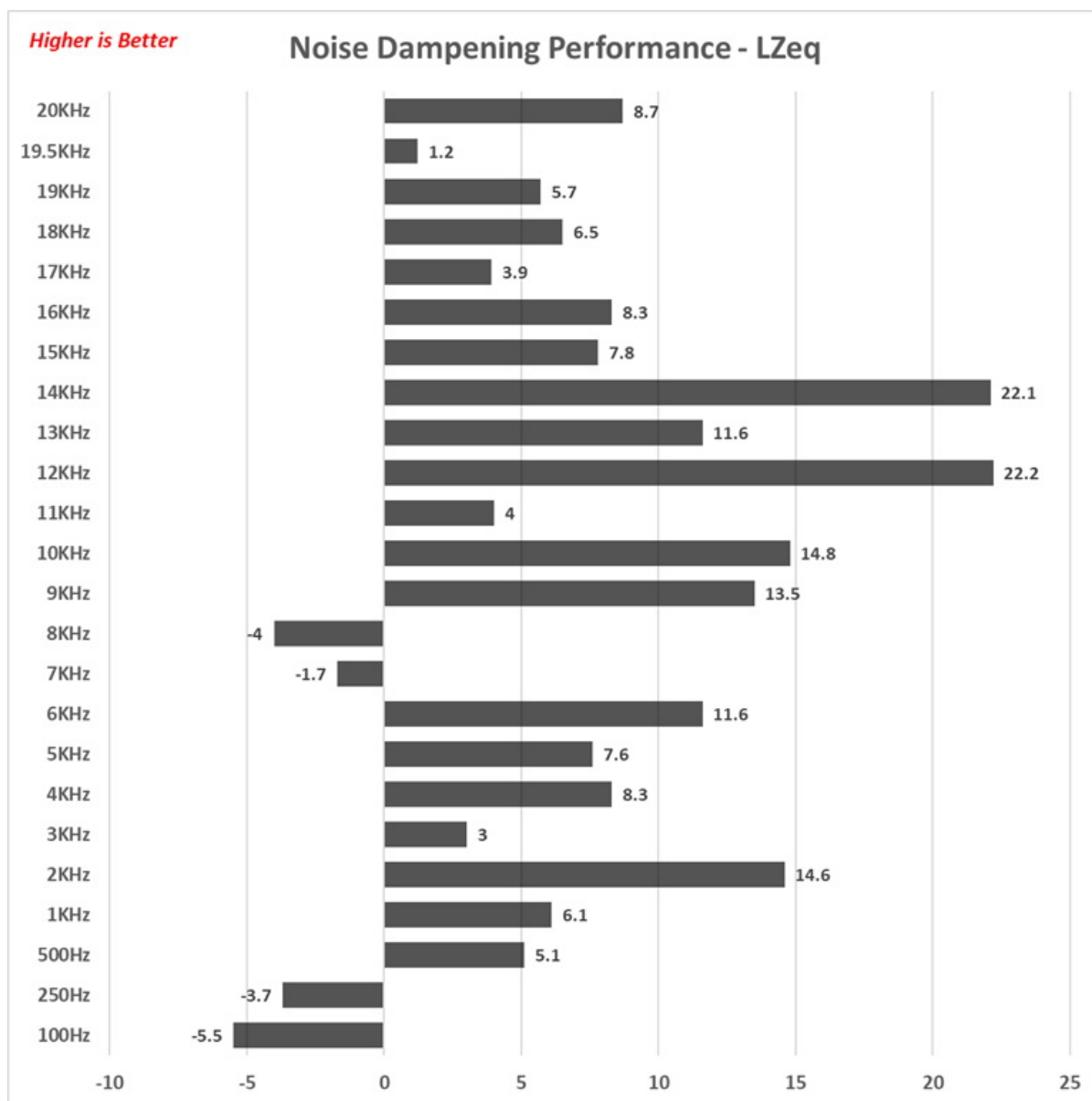
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Noise Dampening Performance LZeQ - Test Tones



Noise Dampening Performance in dB(Z) from 100 Hz to 20 kHz

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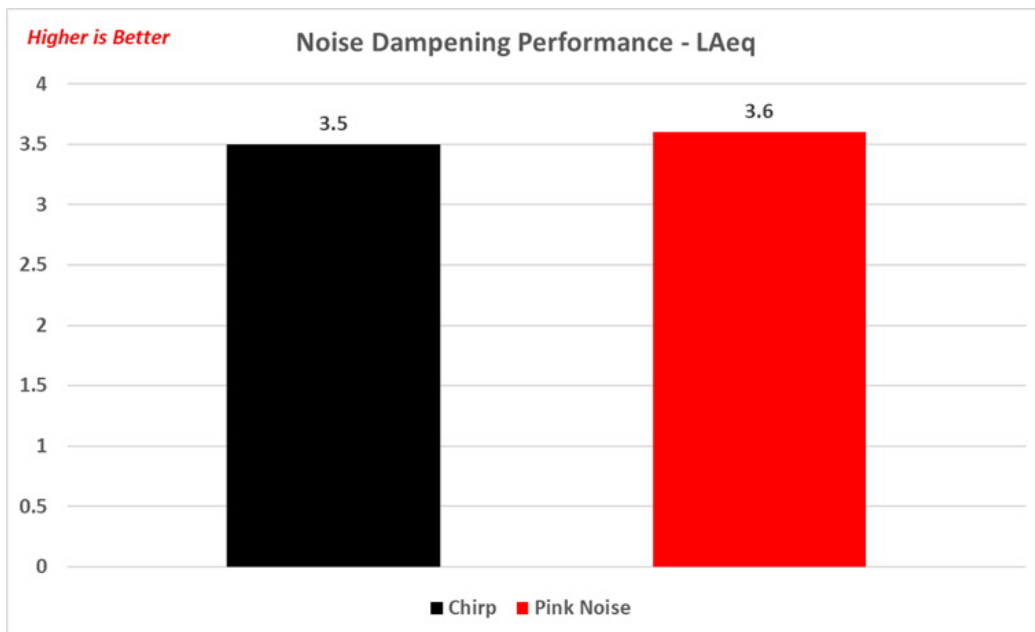
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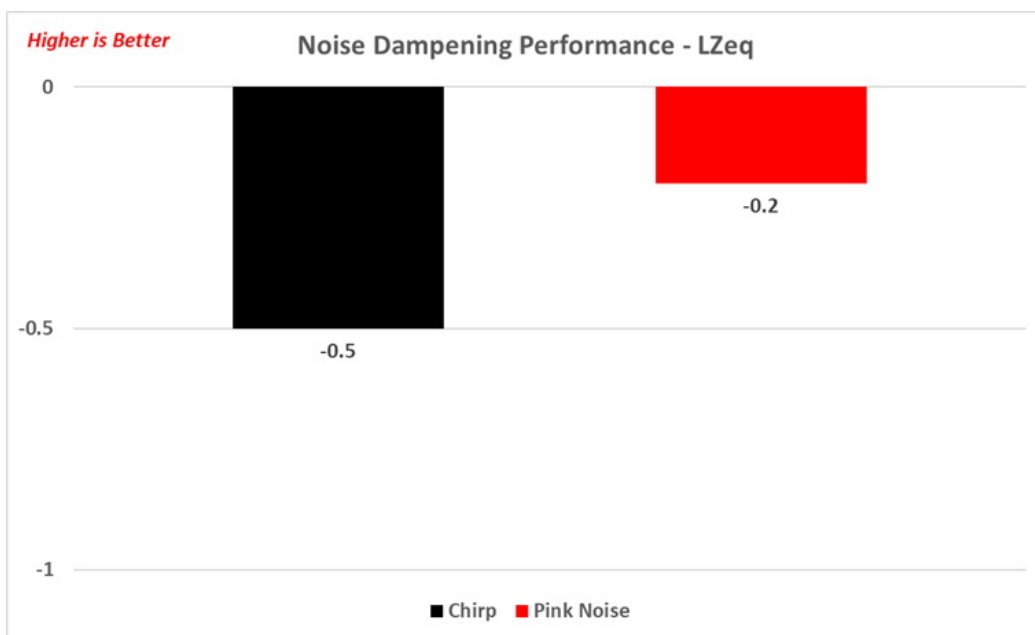
Noise Dampening Performance LAeq - Pink & Chirp



INFO

Chirp & Pink Noise Noise Dampening
Performance (dB[A])

Noise Dampening Performance LZeq - Pink & Chirp



INFO

Chirp & Pink Noise Noise Dampening
Performance (dB[Z])

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Case Photo #2



QR Code

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