Evaluation Report

Phanteks Eclipse P600s (Without Sound Panels)

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	Phanteks
Product Name	Eclipse P600S
Type	Mid Tower
Dimensions (LxWxH)	510 x 240 x 520mm
Motherboard Support	Mini-ITX, Micro-ATX, ATX, E-ATX
Removable Motherboard Tray	No
Front Door/Cover	Yes
Materials Body	Steel, Plastic, Sound Dampening Material
Materials Side Panel	Left:Sound-Dampened Steel Right: Sound-Dampened Steel
Expansion Slots	7x (plus three vertical)
Drive Bays	5.25": - 3.5 " : 10x Internal (4 included) 2.5" :3x Internal (3 included)
I/O Panel	1x USB 3.1 Gen 2 Type-C, 2x USB 3.0, 1x audio jack, 1x mic jack, 1x Power Button, 1x Reset Button
Pre-installed Fan(s)	Front: 2x 140mm Rear: 1x 140mm Top: -
Fan Support	Front: 3x 120mm / 3x 140mm Top: 3x 120mm / 2x 140mm Rear: 1x 120mm / 1x 140mm
Fan Bearing Type	no info
Fan Power Connector	3-Pin
Fan Controller	Yes
Radiator Support	Front: 120/140/240/280/360/420mm Top: 120/140/240/280/360mm Rear: 120/140mm
CPU Cooler Height (Max)	190mm
VGA Length (Max)	435mm
PSU Length (Max)	195mm (with all 3.5" bays) / 250mm (with one 3.5" bay)
Behind MB Tray Clearance/Cable Management Support	18-27mm
Dust Filters	Top, Front, Bottom
PSU Support	Bottom Mount, ATX
Weight	12.1 kg
Warranty	5-years

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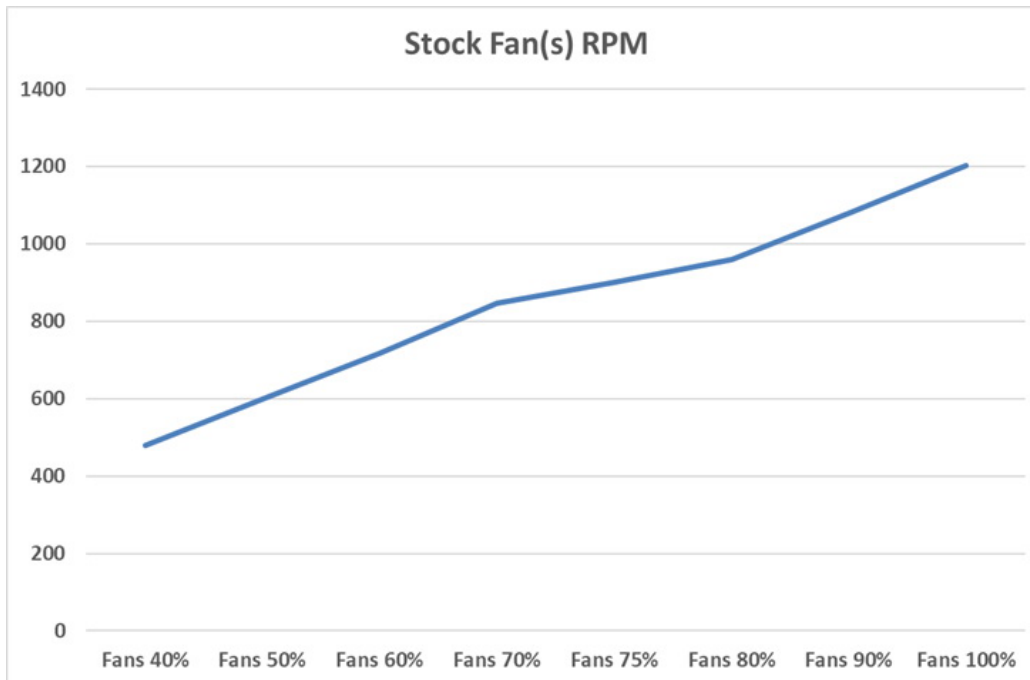
Stock Fan(s) RPM

INFO

Stock Fan Speed from 40% to 100%

Stock Fan(s) Noise Output – LAeq
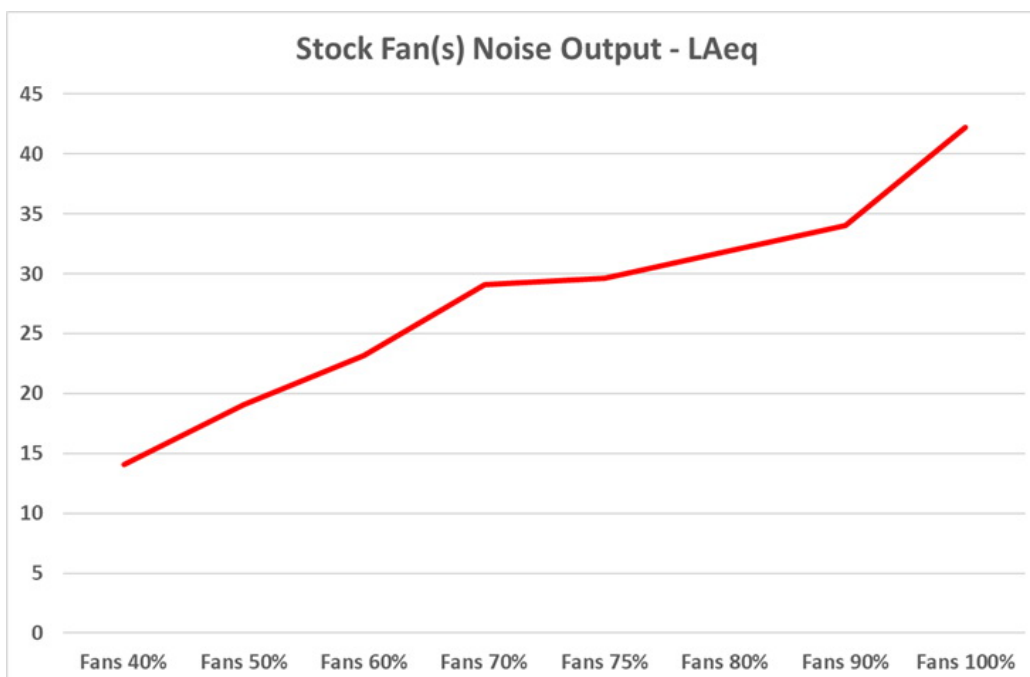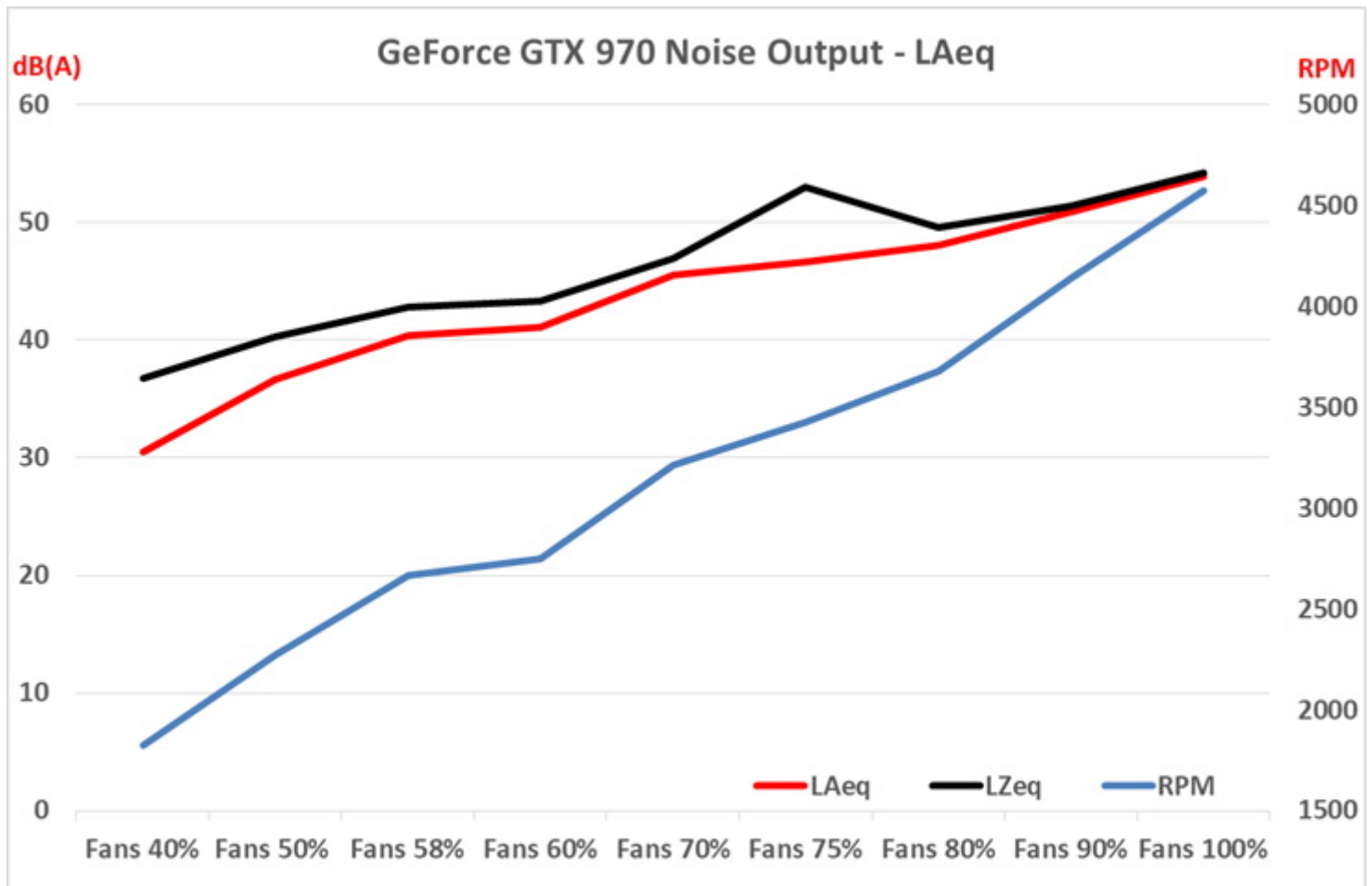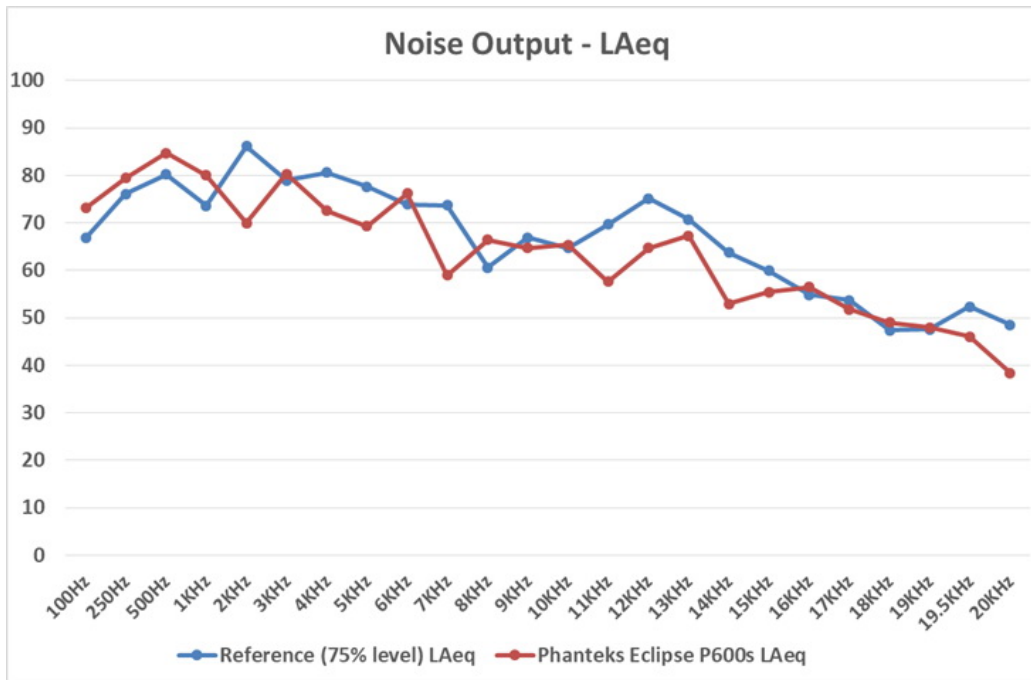

INFO

Stock Fan Noise Output from 40% to 100%

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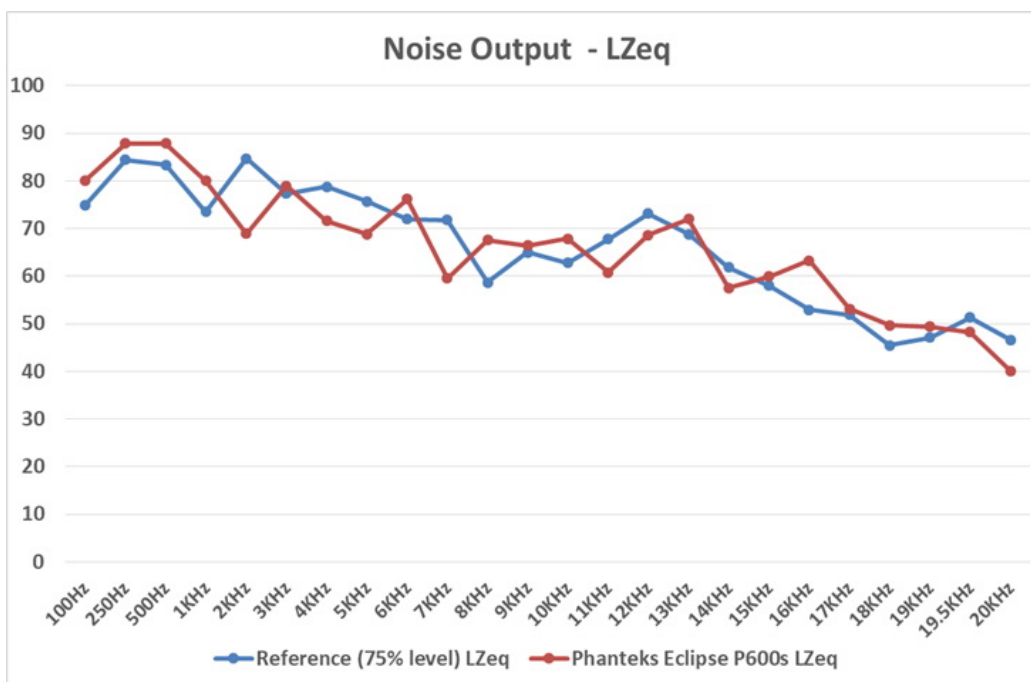**Cybenetics**

Phanteks Eclipse P600s (Without Sound Panels)

Evaluation Report

GPU Fan(s) Noise Output – LAeq

GeForce GTX 970 Noise Output - LAeq

Legend: LAeq, LZeq, RPM

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

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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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Noise Dampening Performance LAeq – Test Tones

Higher is Better

Noise Dampening Performance - LAeq

Frequency	Value
20KHz	10.1
19.5KHz	6.4
19KHz	-0.4
18KHz	-1.6
17KHz	1.9
16KHz	-1.7
15KHz	4.5
14KHz	10.8
13KHz	3.4
12KHz	10.4
11KHz	12.1
10KHz	-0.7
9KHz	2.2
8KHz	-5.8
7KHz	14.7
6KHz	-2.3
5KHz	8.3
4KHz	8
3KHz	-1.3
2KHz	16.1
1KHz	-6.4
500Hz	-4.5
250Hz	-3.3
100Hz	-6.3

Noise Dampening Performance in dB(A) from 100 Hz to 20 kHz
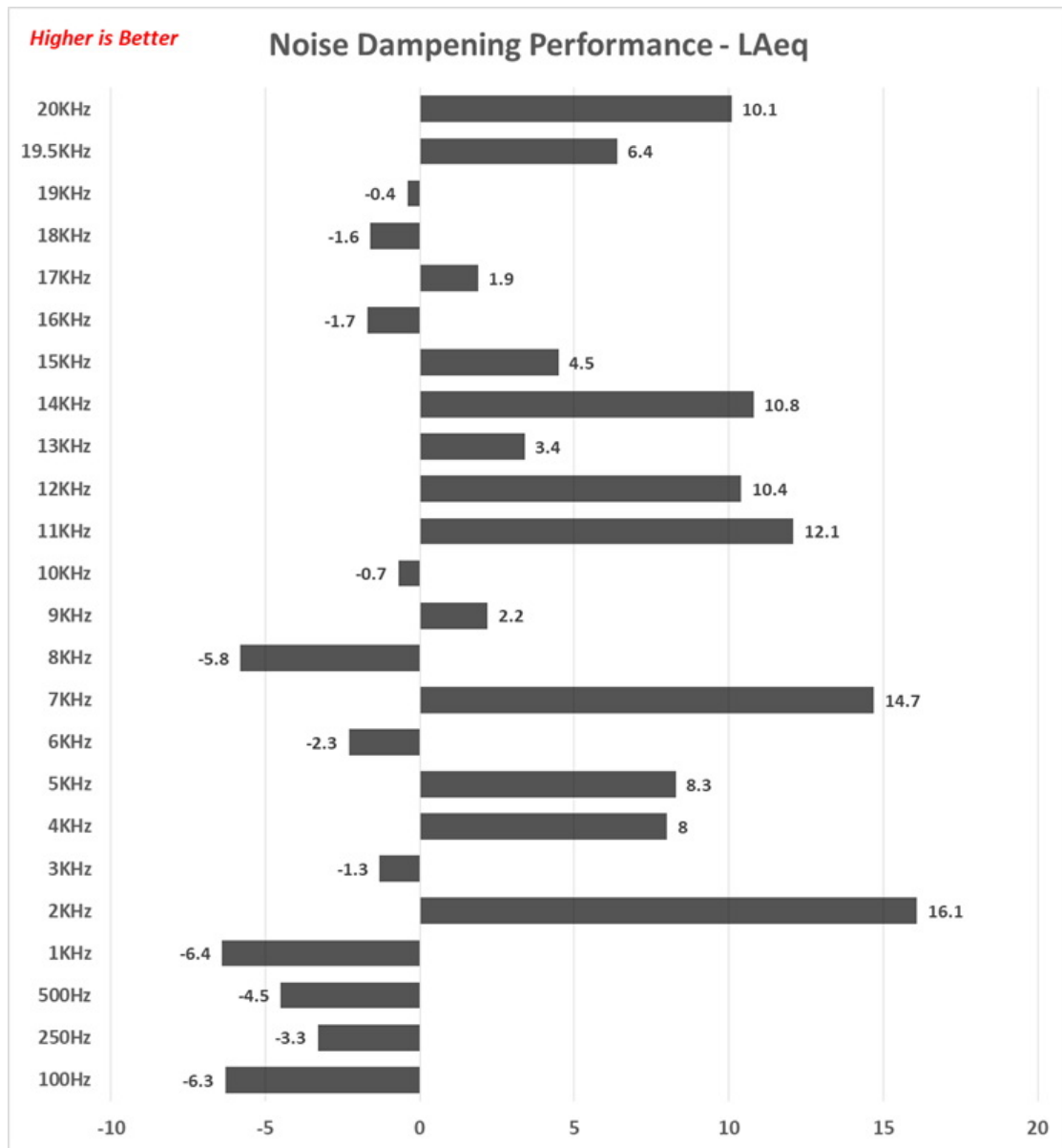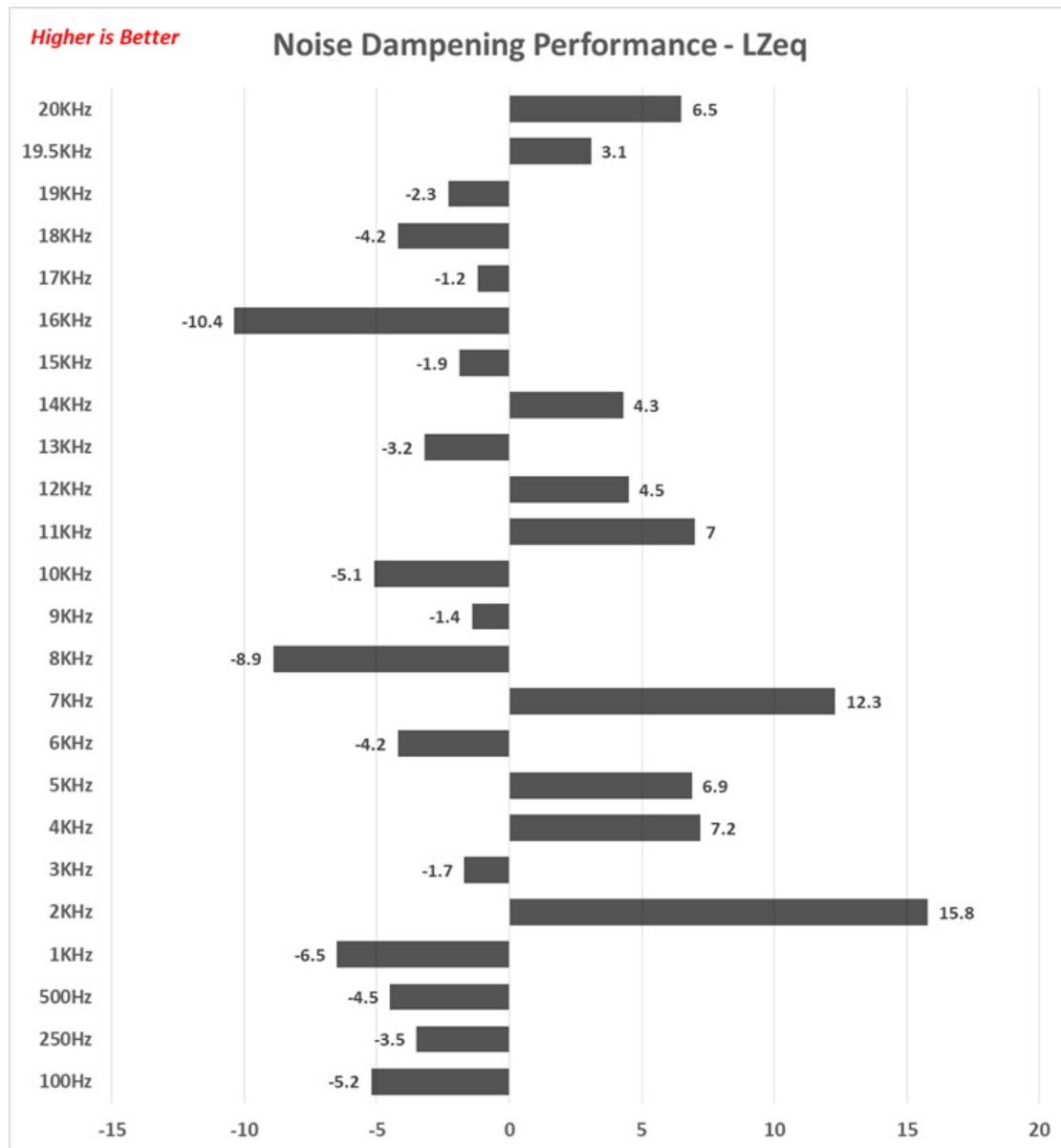
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Noise Dampening Performance LZeq – Test Tones

Higher is Better

Noise Dampening Performance - LZeq

Frequency	Value
20KHz	6.5
19.5KHz	3.1
19KHz	-2.3
18KHz	-4.2
17KHz	-1.2
16KHz	-10.4
15KHz	-1.9
14KHz	4.3
13KHz	-3.2
12KHz	4.5
11KHz	7
10KHz	-5.1
9KHz	-1.4
8KHz	-8.9
7KHz	12.3
6KHz	-4.2
5KHz	6.9
4KHz	7.2
3KHz	-1.7
2KHz	15.8
1KHz	-6.5
500Hz	-4.5
250Hz	-3.5
100Hz	-5.2

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

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Evaluation Report

Noise Dampening Performance LAeq – Pink & Chirp

Higher is Better
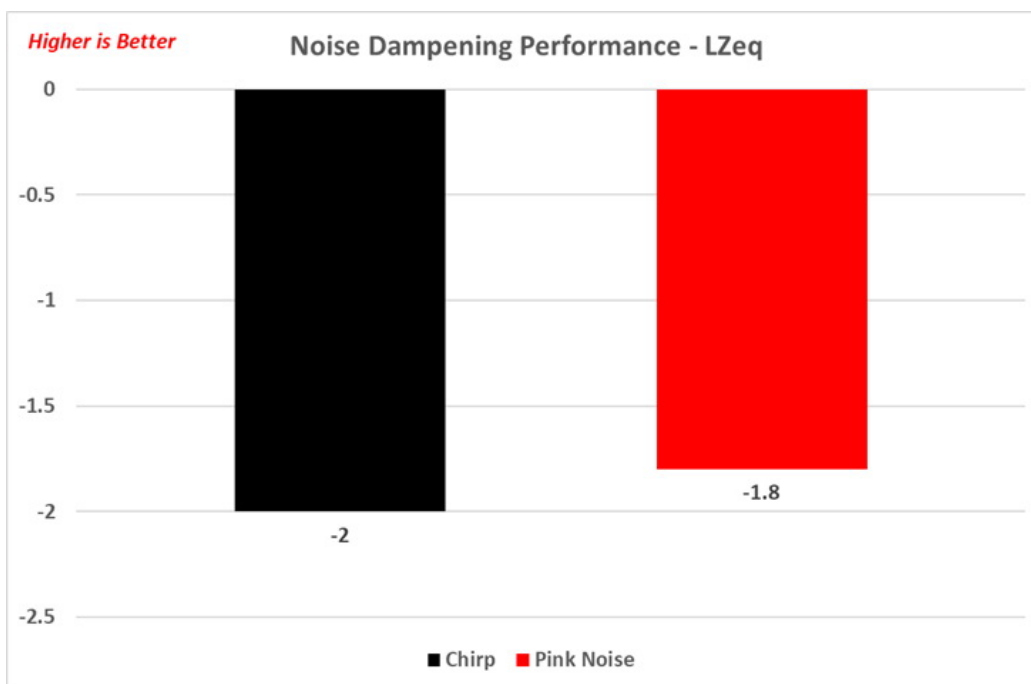
Noise Dampening Performance - LAeq

INFO

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

Noise Dampening Performance LZeq – Pink & Chirp

Higher is Better

Noise Dampening Performance - LZeq

INFO

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

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Evaluation Report

Case Photo #2

QR Code

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