CHIEFTEC

Chieftec Iceberg Pro 360 RGB

Lab ID CFCLR00128

Type Liquid

Testing Dates: Oct 8, 2026 to Oct 28, 2026

Scheme: THETA

AMD AM5

No THETA level Intel LGA1851

Aristeidis Bitziopoulos, Certification Body General Manager

THETA Cooler Performance

THETA is a Cybenetics performance rating. It is not part of our ISO/IEC 17065 certification schemes and is outside our accreditation.

Overall Performance (OP) = W × F / T, where W is the average CPU power at the EPS connectors (W), F the average CPU frequency (MHz) and T the average CPU temperature (°C). A cooler is rated on its measured OP at 30 dB(A) normalized noise output; a cooler that cannot reach 30 dB(A) is rated on its own measured 25 dB(A) point. Air and AIO coolers have separate ladders on each test platform.

Platform	THETA level	Test CPU	Mount	Rated at	Overall Performance (OP)
AMD AM5	**THETA Gold · AIO · AMD AM5**	AMD Ryzen 9 7900X (AM5)	Default	30 dB(A)	11,485
Intel LGA1851	**No THETA level**	Intel Core Ultra 9 285K (LGA1851)	Default	-	-

General Information

Test Equipment

Noise Test Environment	Hemi Anechoic Chamber with 6dB(A) noise floor
Sound Analyzer	Bruel & Kjaer 2270 G4
Microphone	Bruel & Kjaer Type 4955-A
Temperature Logger	Picoscope TC-08
Climate Chamber	Giant Force GTH-800-20-CP-AR
Testing Methodology	Cybenetics Cooling Solutions Test Protocol

DUT Information

Brand	Chieftec
Model	Iceberg Pro 360 RGB
Lab ID	CFCLR00128
Testing Dates	Oct 8, 2026 to Oct 28, 2026
Engineer	Aris Bitziopoulos

Climate Chamber

Noise Test Environment	Hemi Anechoic Chamber with 6dB(A) noise floor
Manufacturer	Giant Force
Model Number	GTH-800-20-CP-AR
Temperature Range	-20℃ ~ +100℃
Humidity Range	20% ~ 98% RH
Temperature/Humidity Constancy	±0.2℃; ±2.5%RH
Temperature/Humidity Uniformity at center	±0.5℃; ±4%RH
Internal Dimensions (WHD)	100 x 100 x 80 cm
External Dimensions (WHD)	145 x 190 x 135 cm
Net Weight (approximately)	450 Kg
Heat-up Time (No load, no linear)	(from 20°C to +100°C) 30min
Pull-down Time (No load, no linear)	(from 20°C to -20°C) 50min

Cooling System	Airtight compressor + evaporator fins + air-cooling condenser
Power Source	3Φ AC 380V ±5%, 50Hz±1% 10KW
Based on Standards	ISO 5801-2007, AMCA 210-0, ASHRAE 51-2007, IEC 61591-2005, GB/T 1236-200

AMD Test System

Mainboard	Asus TUF GAMING X670E-PLUS
CPU	AMD Ryzen 9 7900x
GPU	Embedded
NVMe	XPG GAMMIX S50 Lite 1TB
RAM	XPG Lancer DDR5 (2 x 16GB) 6000MHz
Power Supply	Seasonic Vertex 1200W (Cybenetics Platinum)
CPU Cooler	Device Under Test
Case	Cooler Master Test Bench

Technical Specifications

Manufacturer (OEM)	Chieftec
Model	Iceberg Pro 360 RGB
Number of Fans	3
Type	Liquid
Radiator Size	360mm
Radiator Thickness	27mm
Radiator Material	Aluminium
Pump Speed	2700RPM
Tube Length	400mm
Tube Diameter	10.8mm
Cold Plate Dimensions	54.61 x 51.80mm
Weight	1690g
RGB Lighting	Yes
AMD Processors Support	AM5 / AM4 / AM3+ / AM3 / AM2+ / AM2 / FM2+ / FM2 / FM1
Intel Processors Support	LGA1851 / LGA1700 / LGA1366 / LGA1200 / LGA115x / LGA2011
Warranty	3 years

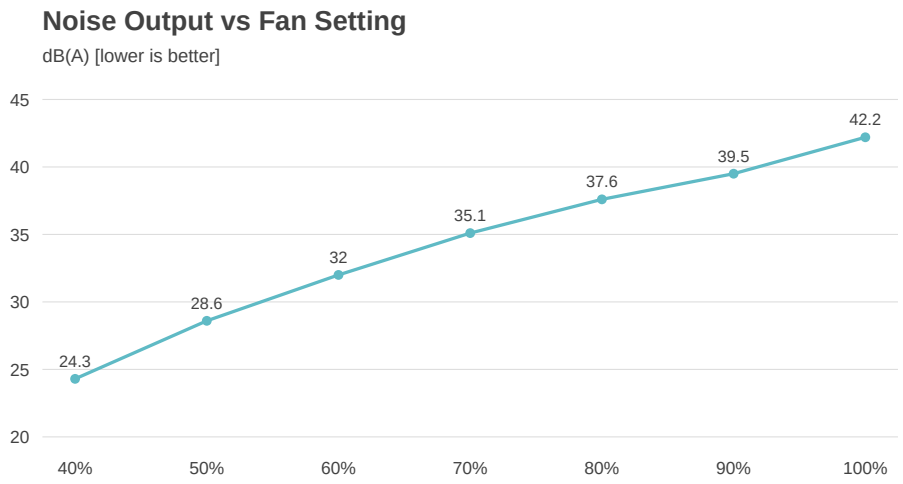
Noise Output and Fan Speed

Table

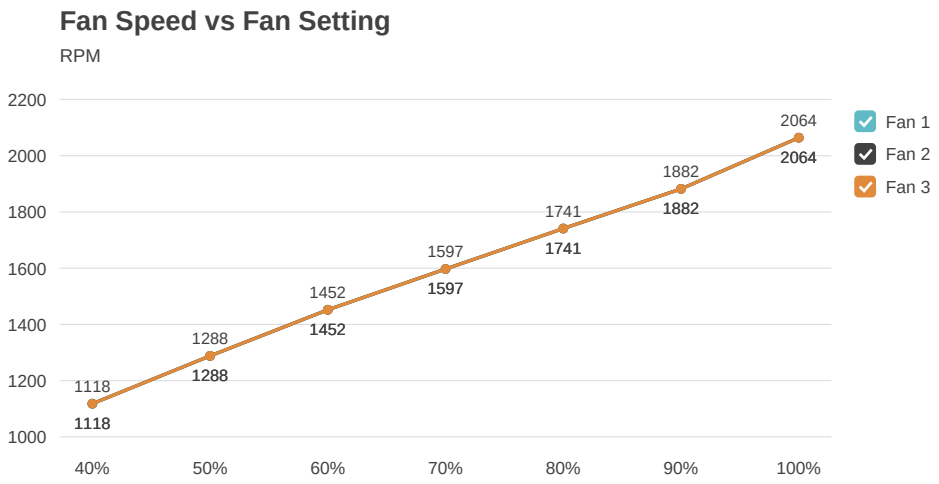
Fan Setting	Noise (dB(A))	Fan 1 (RPM)	Fan 2 (RPM)	Fan 3 (RPM)
40%	24.3	1118	1118	1118
50%	28.6	1288	1288	1288
60%	32.0	1452	1452	1452
70%	35.1	1597	1597	1597
80%	37.6	1741	1741	1741
90%	39.5	1882	1882	1882
100%	42.2	2064	2064	2064

Graphs

Noise



Fan Speed



Fan Speed at Fixed Noise Levels

Noise Level	Fan 1 (RPM)	Fan 2 (RPM)	Fan 3 (RPM)
15 dB(A)	805	805	805
20 dB(A)	955	955	955
25 dB(A)	1140	1140	1140
30 dB(A)	1345	1345	1345
35 dB(A)	1590	1590	1590
40 dB(A)	1900	1900	1900

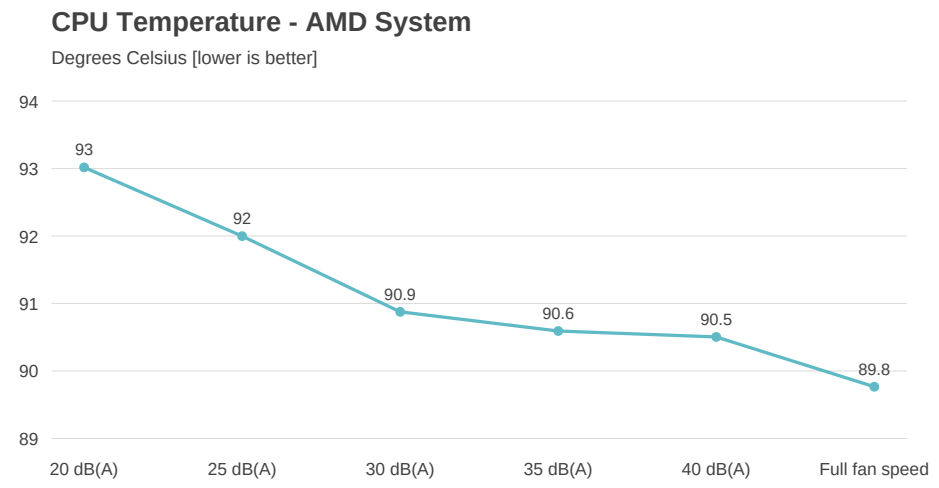
AMD System Test Results

Table

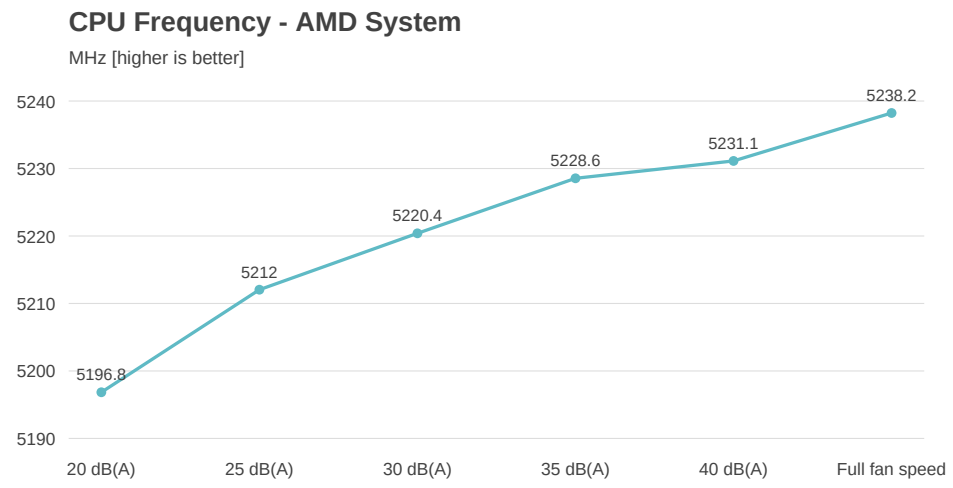
Condition	CPU Temperature (°C)	CPU Frequency (MHz)	CPU Power (W)	Overall Performance
20 dB(A)	93.0	5197	196.9	11000
25 dB(A)	92.0	5212	199.4	11299
30 dB(A)	90.9	5220	199.9	11485
35 dB(A)	90.6	5229	203.0	11718
40 dB(A)	90.5	5231	204.7	11830
Full fan speed	89.8	5238	206.7	12061

Graphs

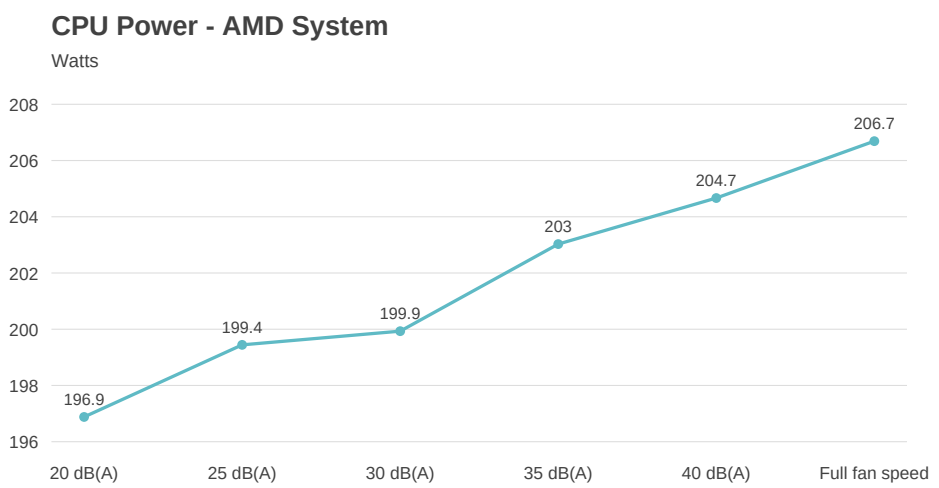
CPU Temperature



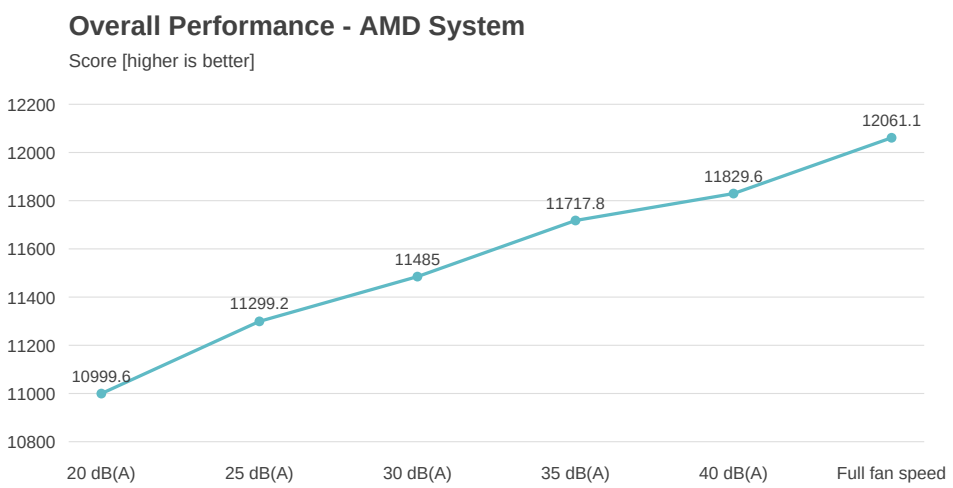
CPU Frequency



CPU Power

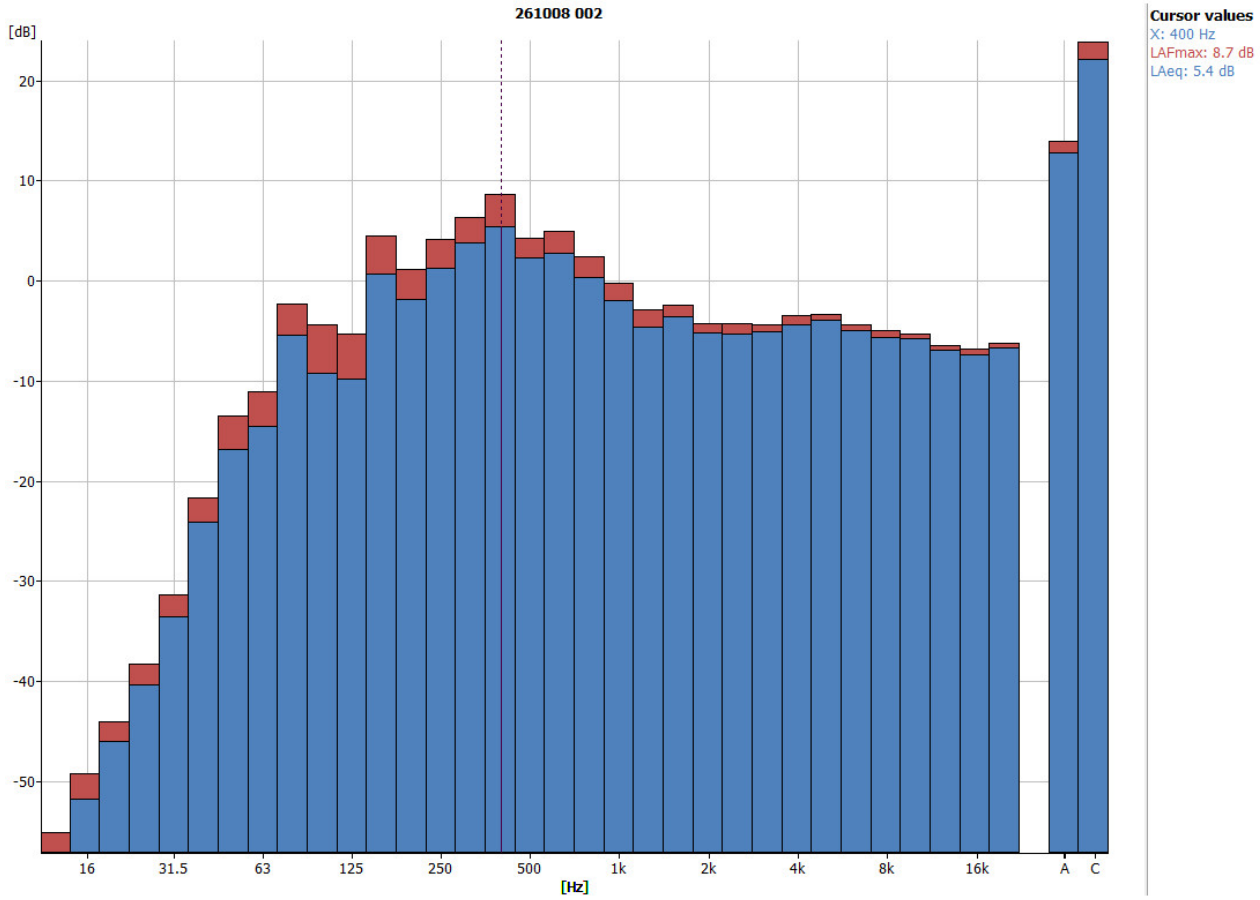


Overall Performance

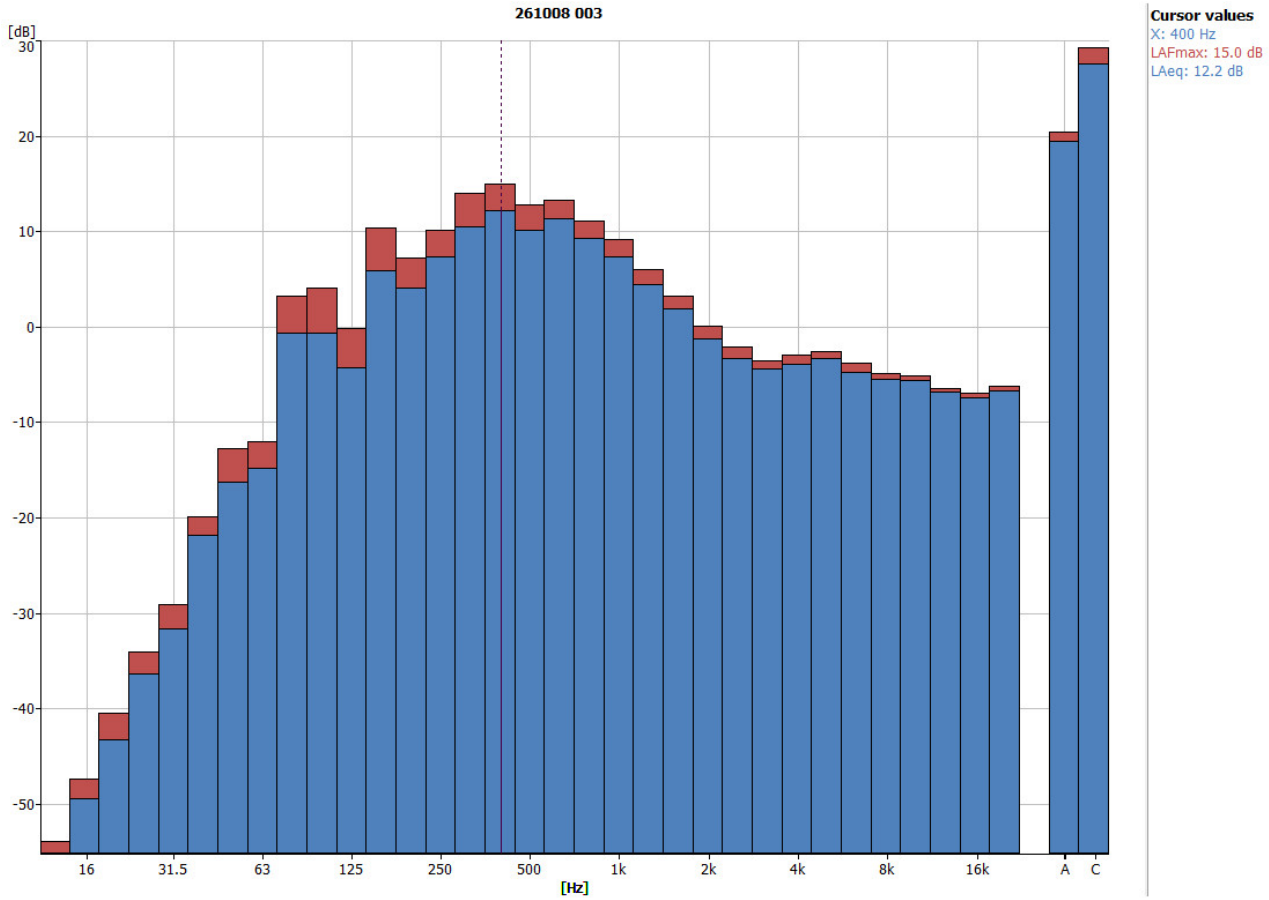


Frequency Plots

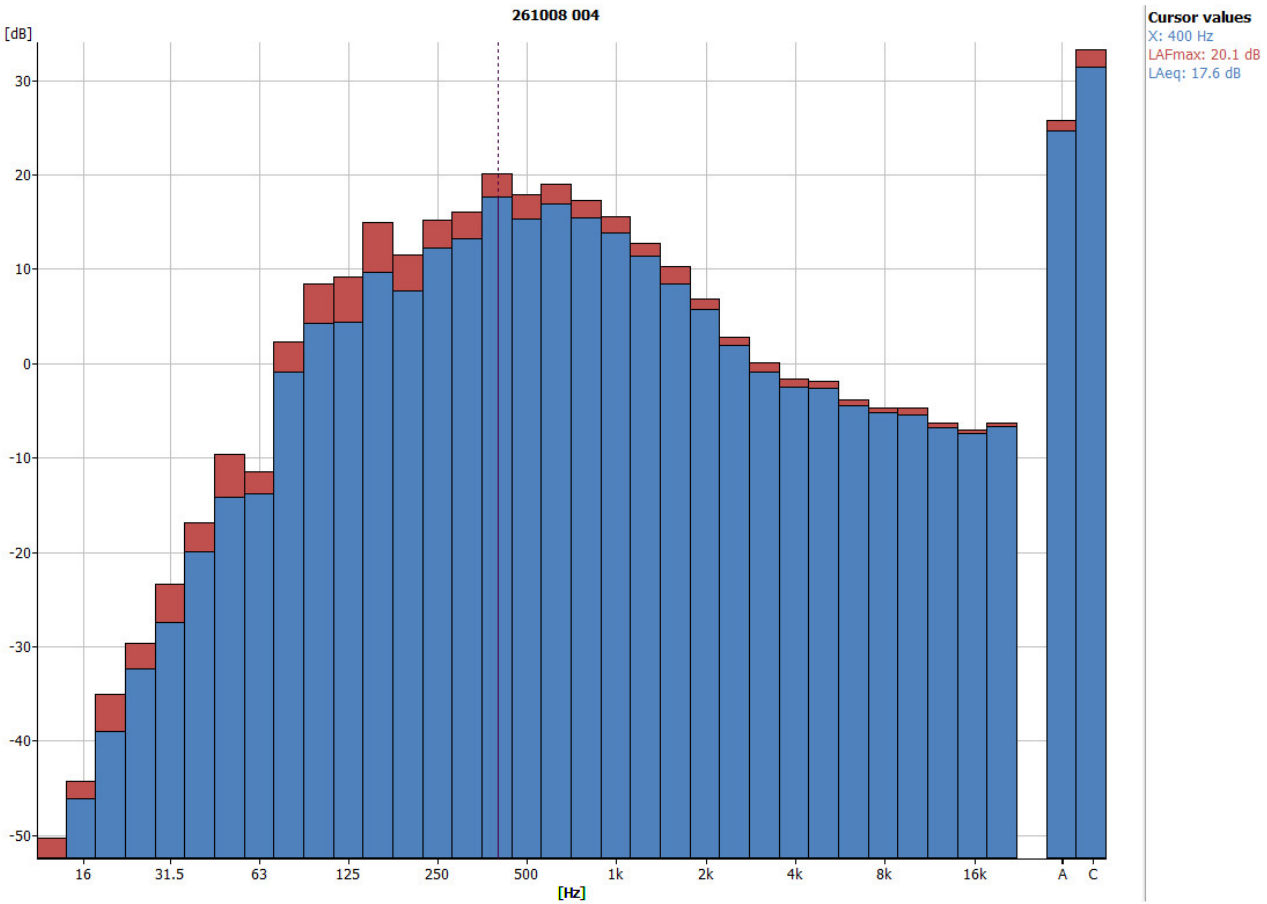
PWM 20%



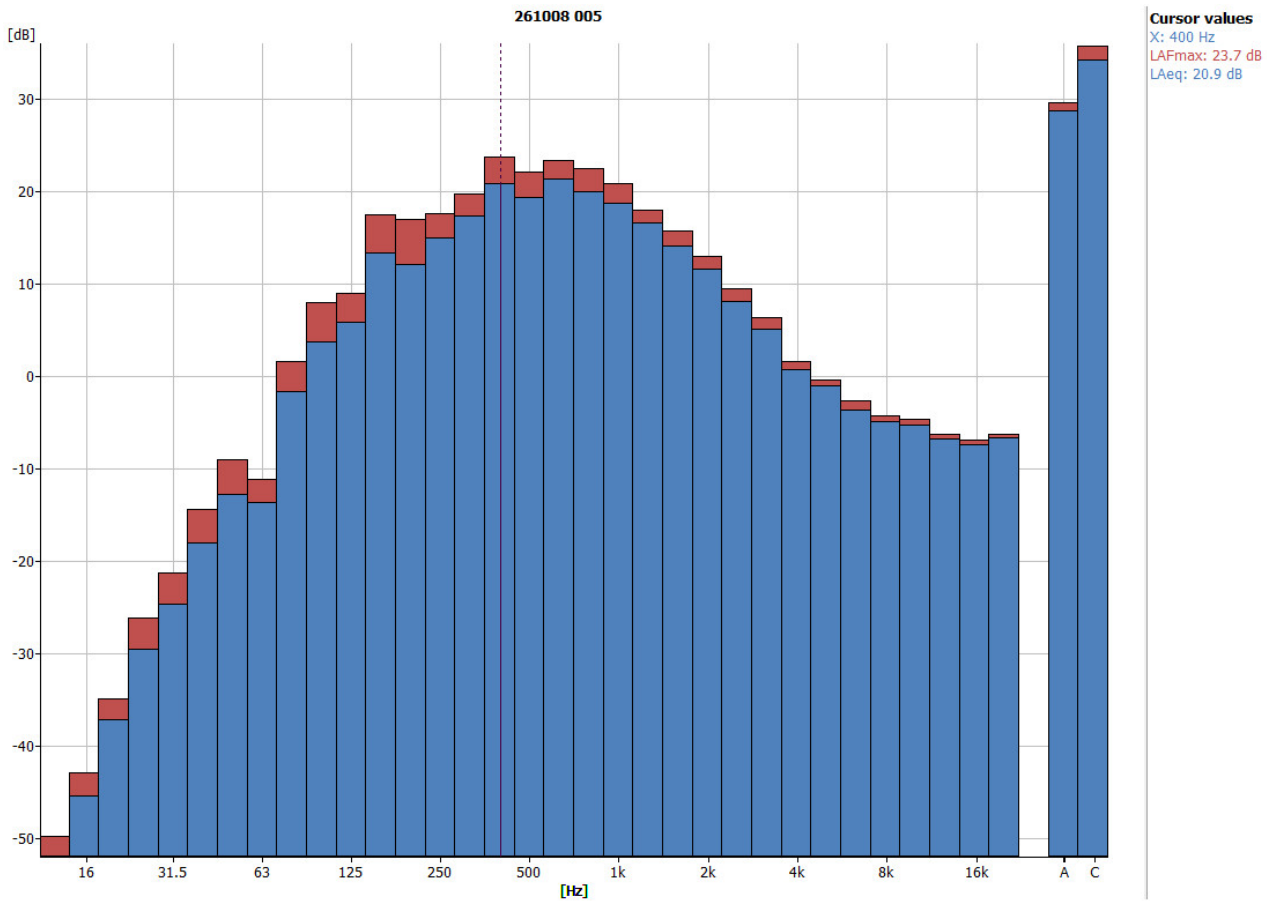
PWM 30%


261008 003
[dB]
30
20
10
0
-10
-20
-30
-40
-50
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 400 Hz
LAFmax: 15.0 dB
LAeq: 12.2 dB

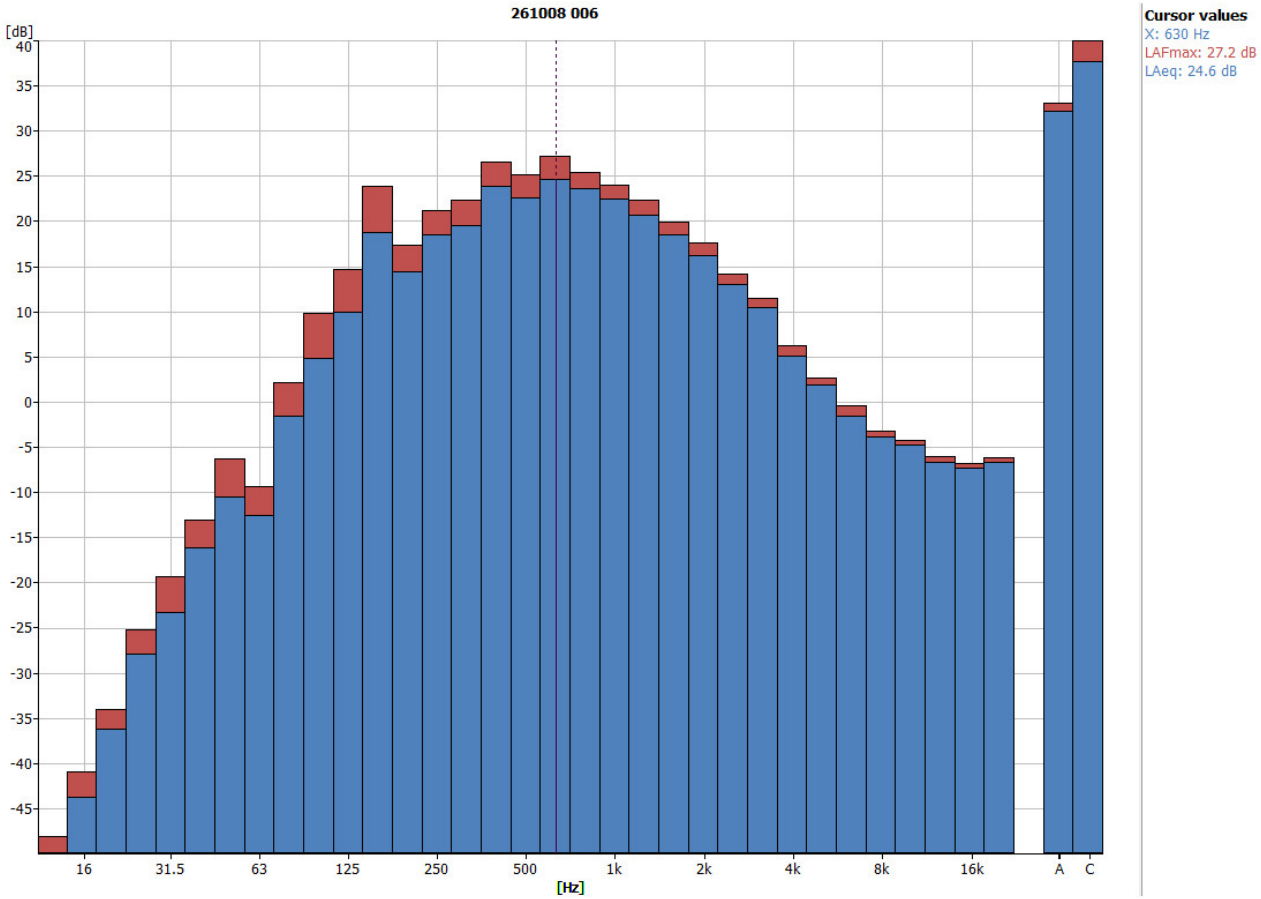
PWM 40%


261008 004
[dB]
30
20
10
0
-10
-20
-30
-40
-50
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 400 Hz
LAFmax: 20.1 dB
LAeq: 17.6 dB

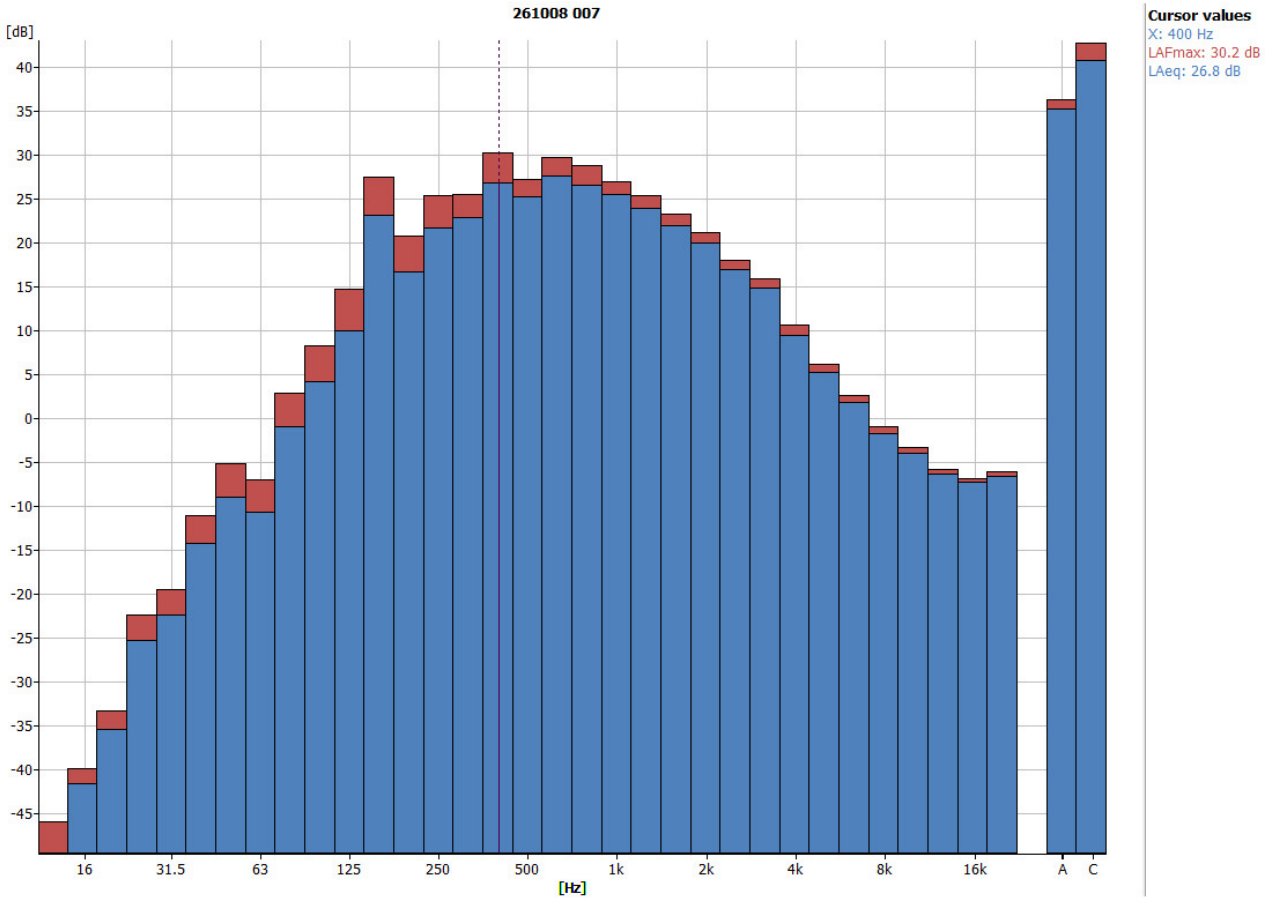
PWM 50%


261008 005
[dB]
30
20
10
0
-10
-20
-30
-40
-50
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 400 Hz
LAFmax: 23.7 dB
LAeq: 20.9 dB

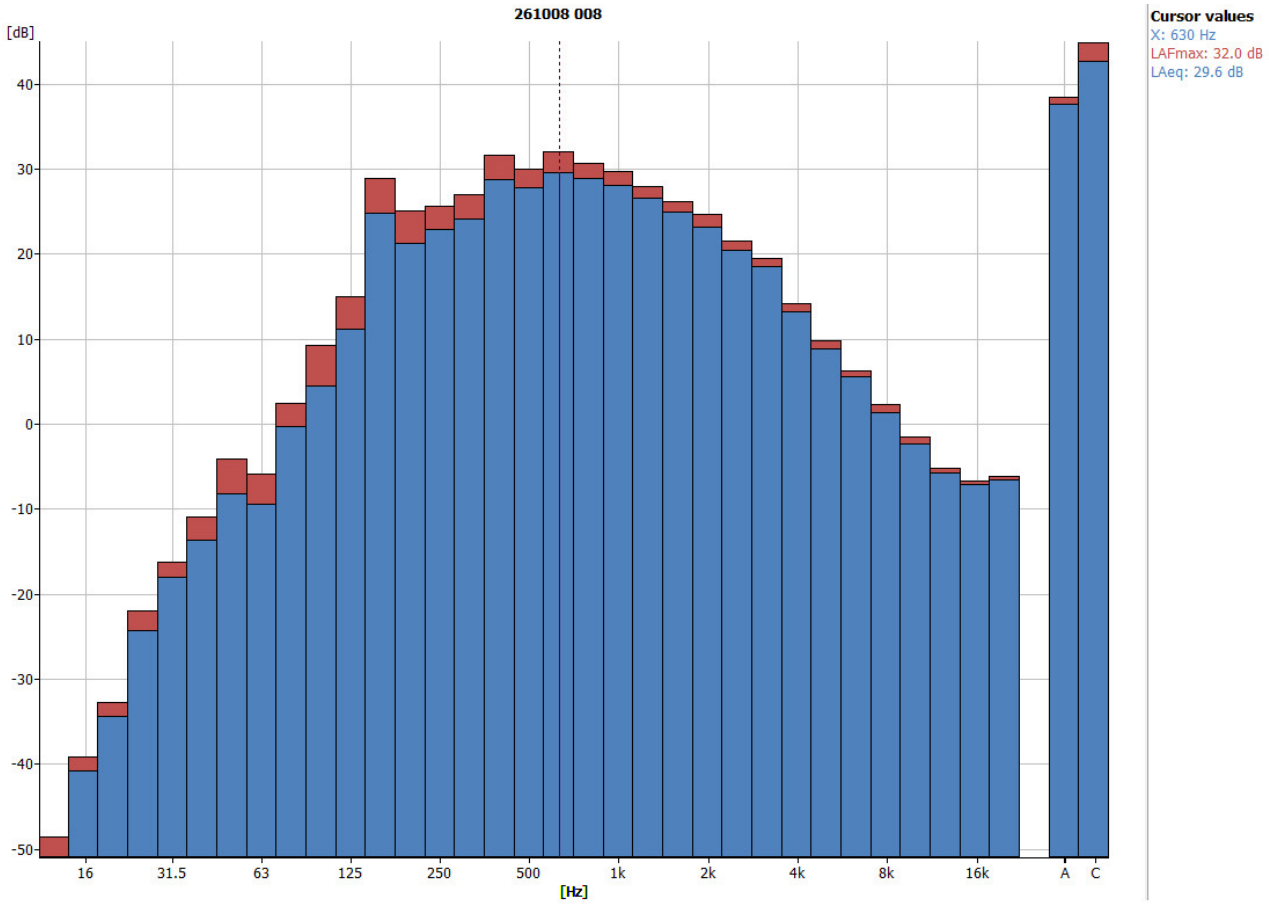
PWM 60%


261008 006
[dB]
40
35
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 630 Hz
LAFmax: 27.2 dB
LAeq: 24.6 dB

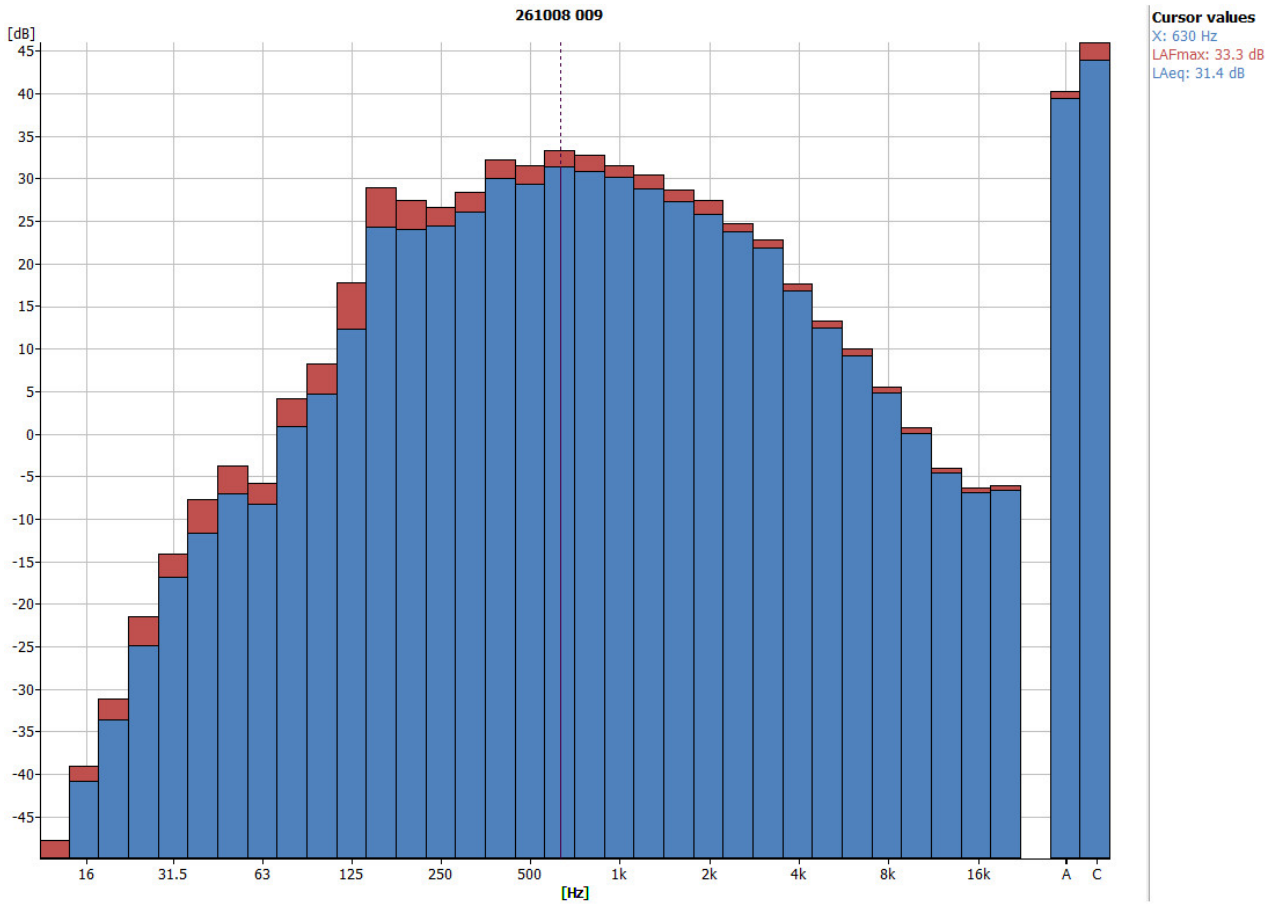
PWM 70%


261008 007
[dB]
40
35
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 400 Hz
LAFmax: 30.2 dB
LAeq: 26.8 dB

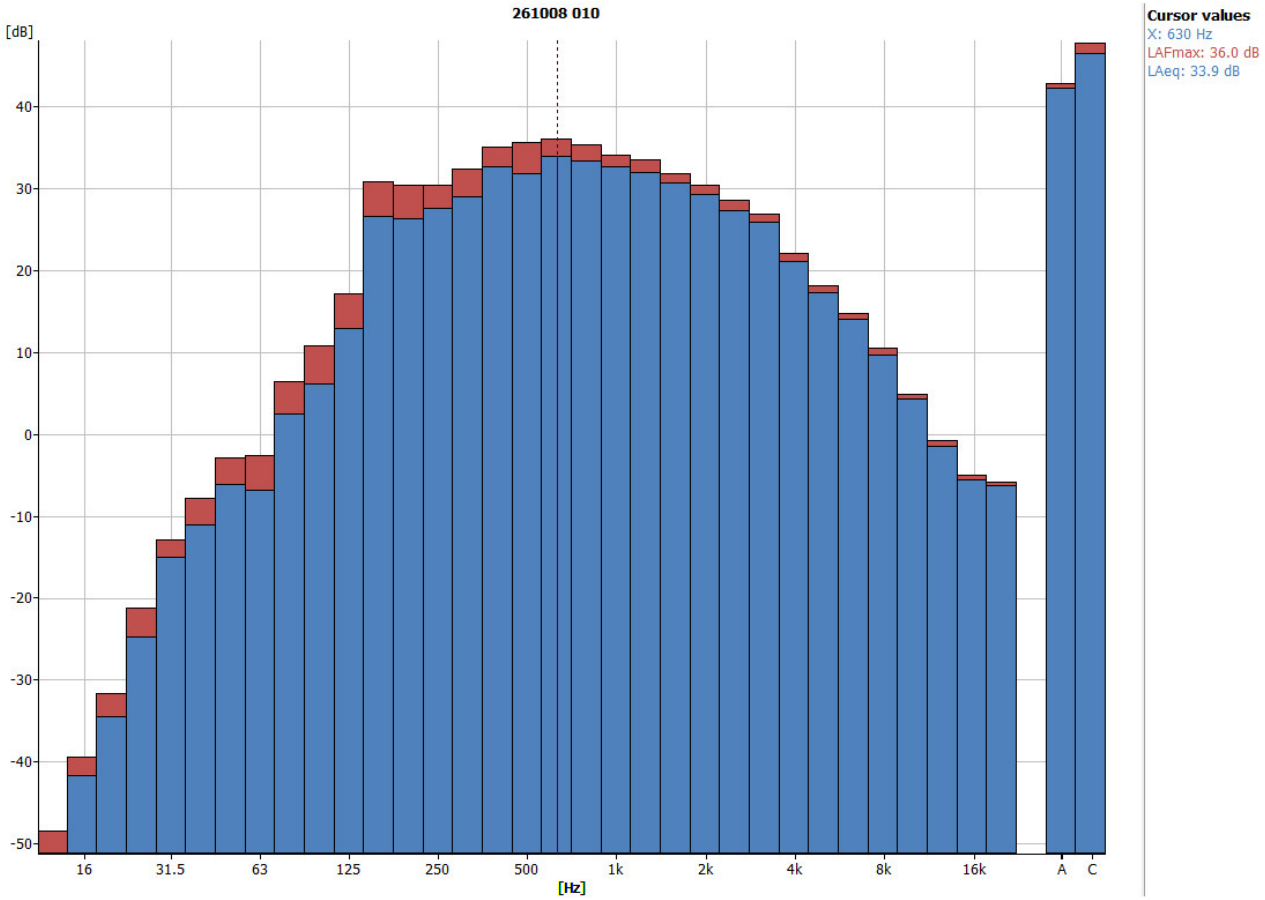
PWM 80%


261008 008
[dB]
40
30
20
10
0
-10
-20
-30
-40
-50
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 630 Hz
LAFmax: 32.0 dB
LAeq: 29.6 dB

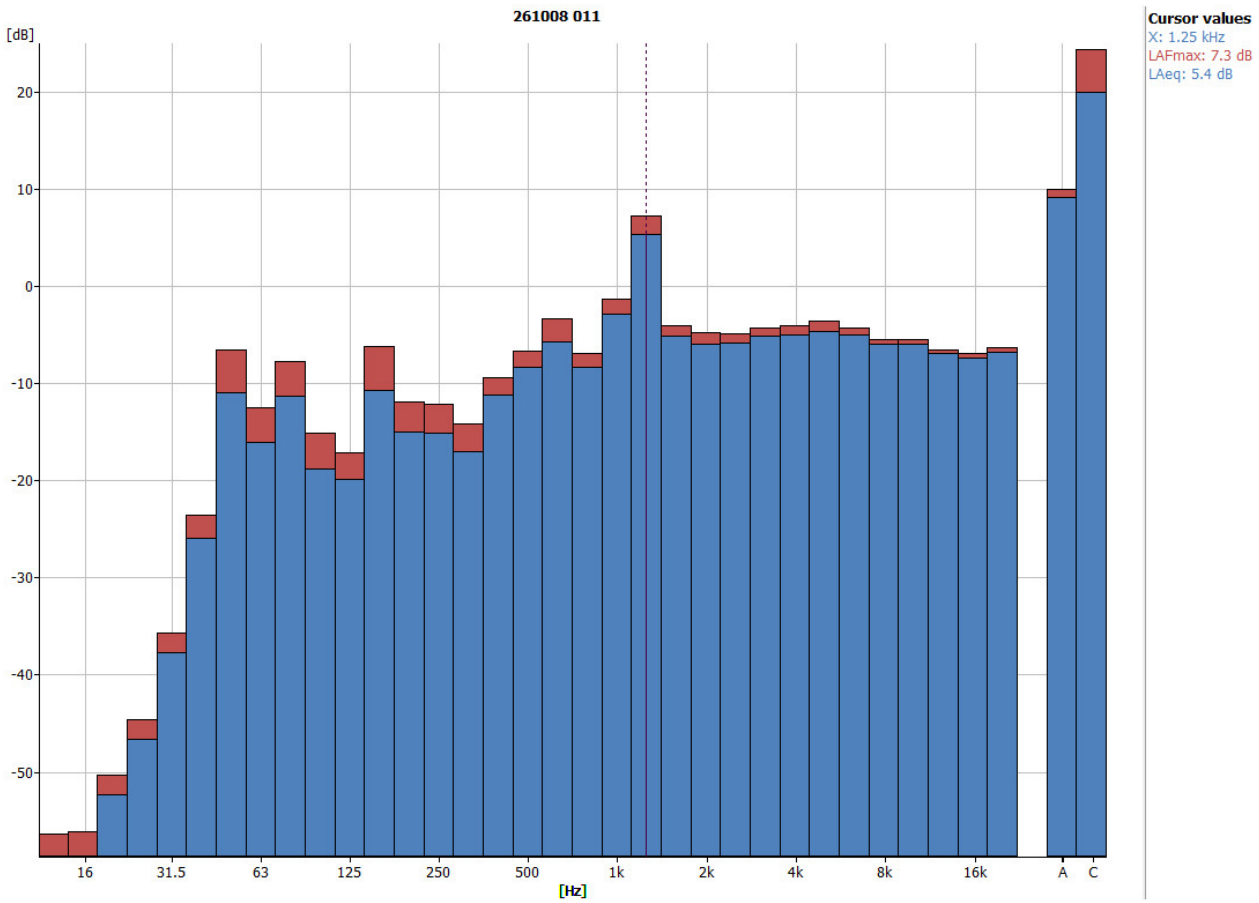
PWM 90%


261008 009
[dB]
45
40
35
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 630 Hz
LAFmax: 33.3 dB
LAeq: 31.4 dB

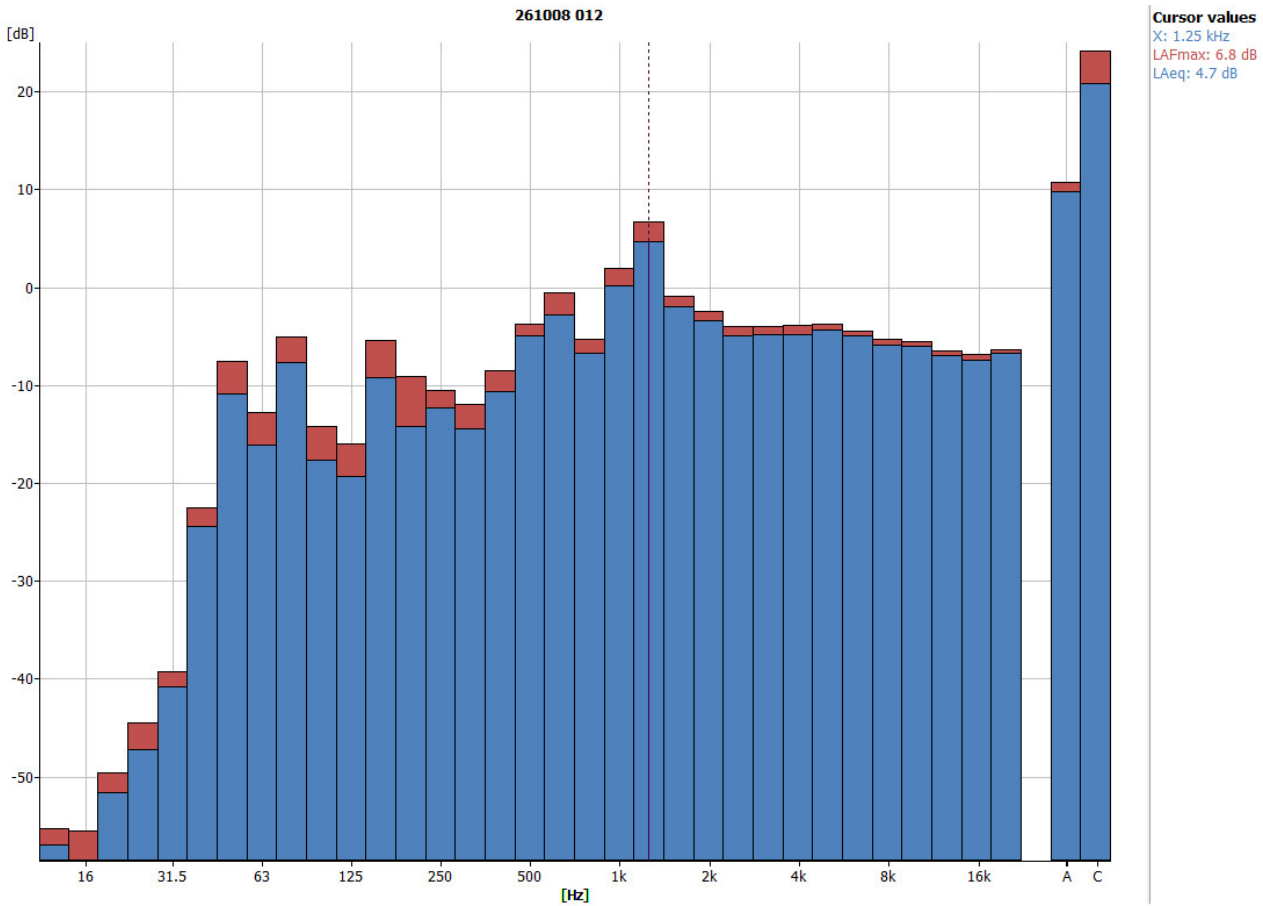
PWM 100%


261008 010
[dB]
40
30
20
10
0
-10
-20
-30
-40
-50
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 630 Hz
LAFmax: 36.0 dB
LAeq: 33.9 dB

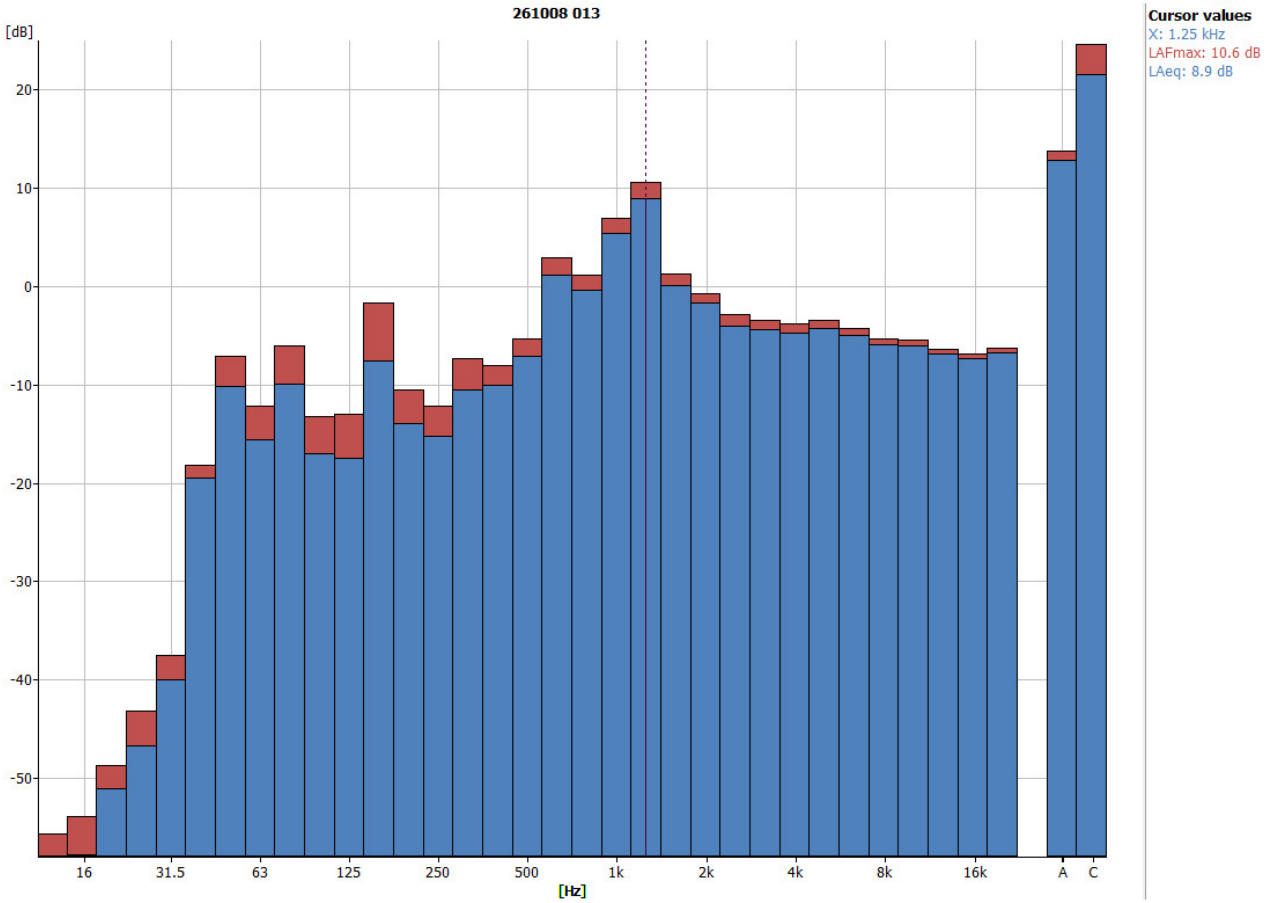
Pump 50%


261008 011
[dB]
20
10
0
-10
-20
-30
-40
-50
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 1.25 kHz
LAFmax: 7.3 dB
LAeq: 5.4 dB

Pump 75%


261008 012
[dB]
20
10
0
-10
-20
-30
-40
-50
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 1.25 kHz
LAFmax: 6.8 dB
LAeq: 4.7 dB

Pump 100%


261008 013
[dB]
20
10
0
-10
-20
-30
-40
-50
16
31.5
63
125
250
500
1k
2k
4k
8k
16k
A
C
[Hz]
Cursor values
X: 1.25 kHz
LAFmax: 10.6 dB
LAeq: 8.9 dB

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