

Hifisonix

Balanced Line Level Preamplifier

Measurements taken on
29 May 2022

www.hifisonix.com

FFT: 32k
Avg: 25 of 49
Res: 1.46 Hz
Fs: 48.0 KHz
Win: Hann
Weight: None

Meas Start: 20.0 Hz
Meas Stop: 20.0 KHz

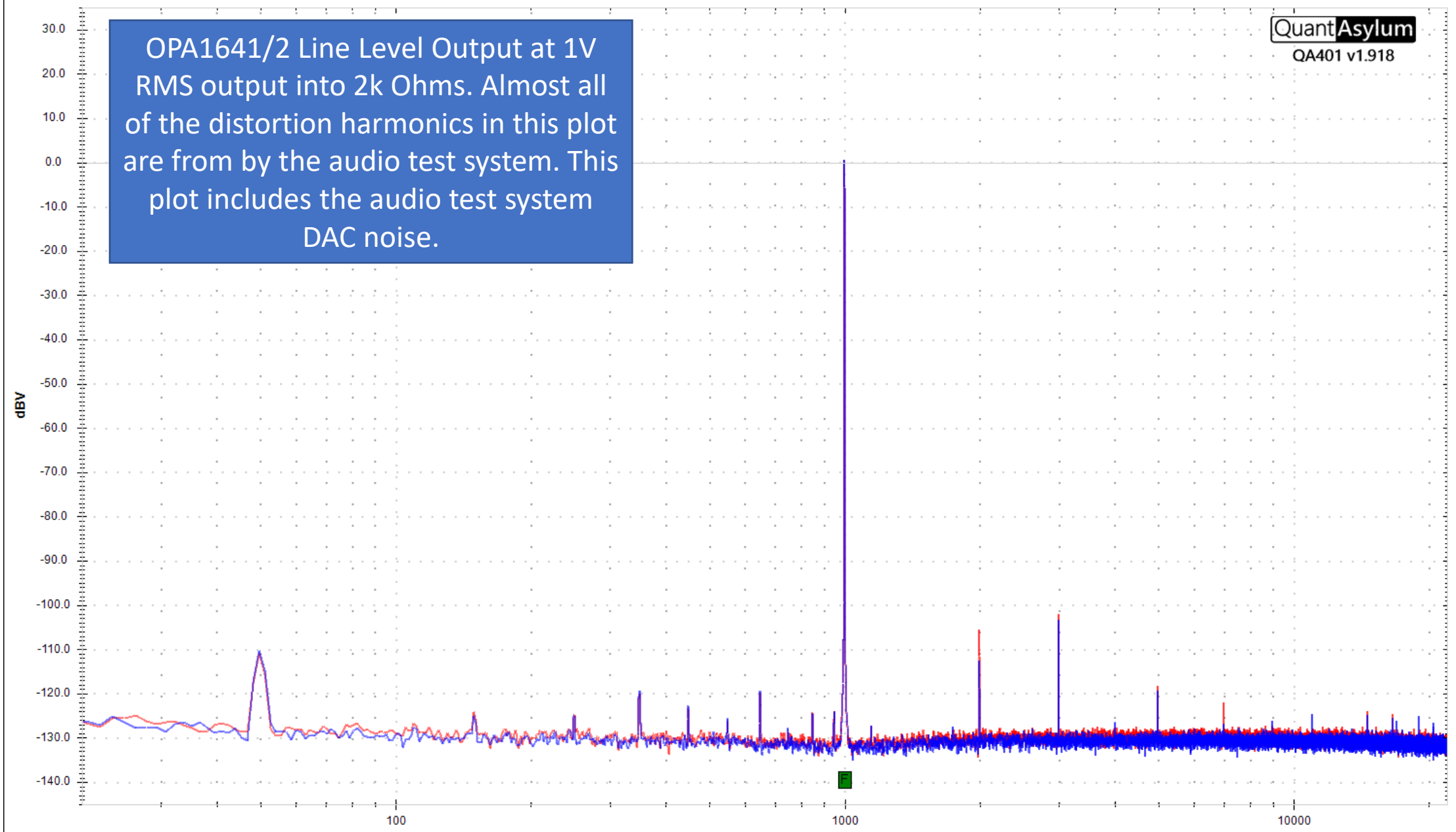
Peak L: 0.43 dBV
Peak R: 1.050 Vrms
THD L: -103.1 dB/ 0.00070%
THD R: -100.9 dB/ 0.00090%

Gen 1: 1.000488 KHz @ -13.5 dBV
Gen 2: 19.00048 KHz @ -1.0 dBV

Phase L: 4.96 deg
Delay L: -2.7 uSec
Gain L: 13.94 dB
Phase R: 4.95 deg
Delay R: -2.7 uSec
Gain R: 13.94 dB

QuantAsylum
QA401 v1.918

OPA1641/2 Line Level Output at 1V
RMS output into 2k Ohms. Almost all
of the distortion harmonics in this plot
are from by the audio test system.
This plot includes the audio test system
DAC noise.



FFT: 32k
Avg: 38 of 49
Res: 1.46 Hz
Fs: 48.0 KHz
Win: Hann
Weight: None

Meas Start: 20.0 Hz
Meas Stop: 20.0 KHz

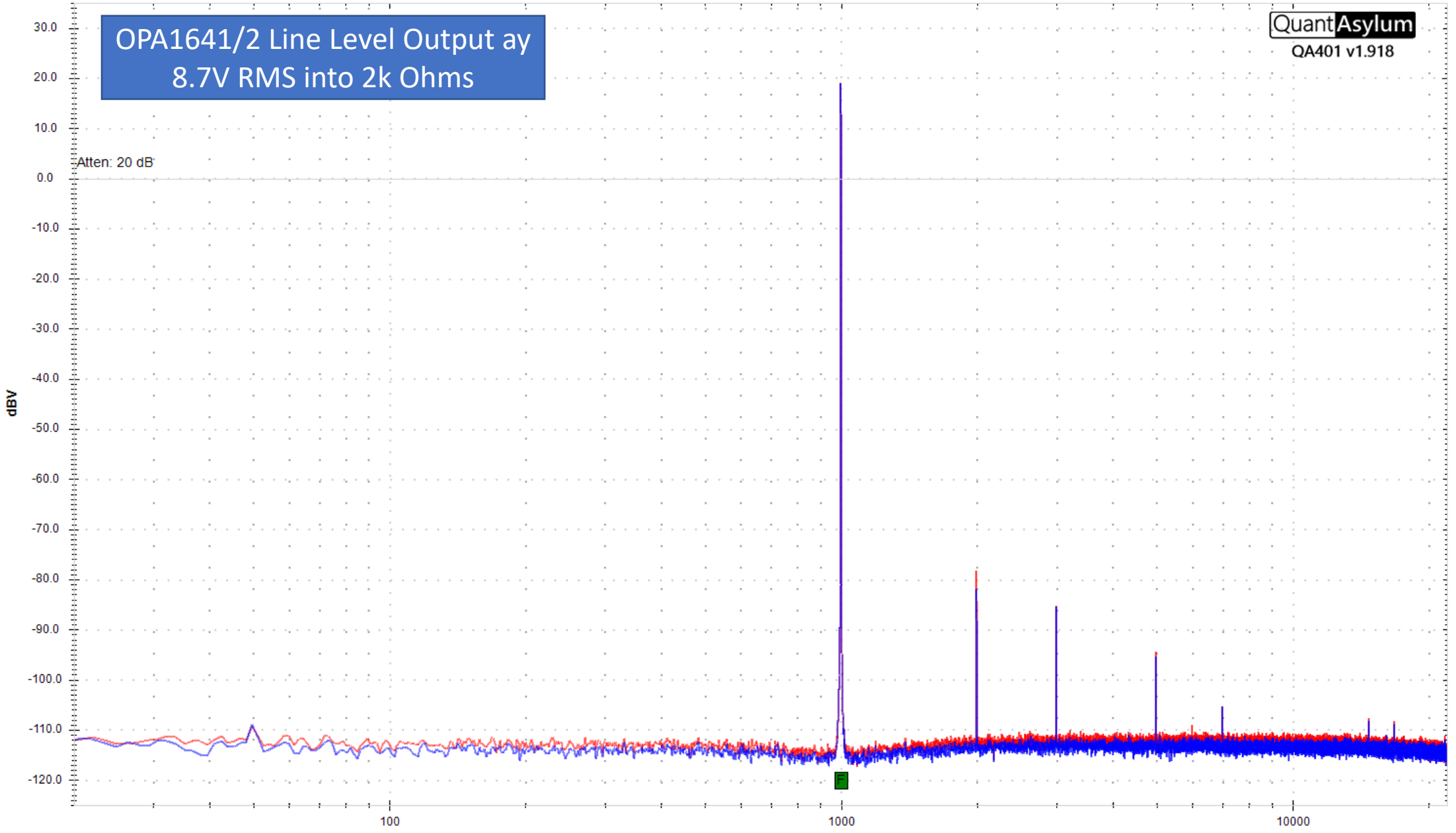
Peak L: 18.85 dBV
Peak R: 18.86 dBV
Peak L: 8.762 Vrms
Peak R: 8.768 Vrms
THD L: -99.1 dB/ 0.00110%
THD R: -96.2 dB/ 0.00155%

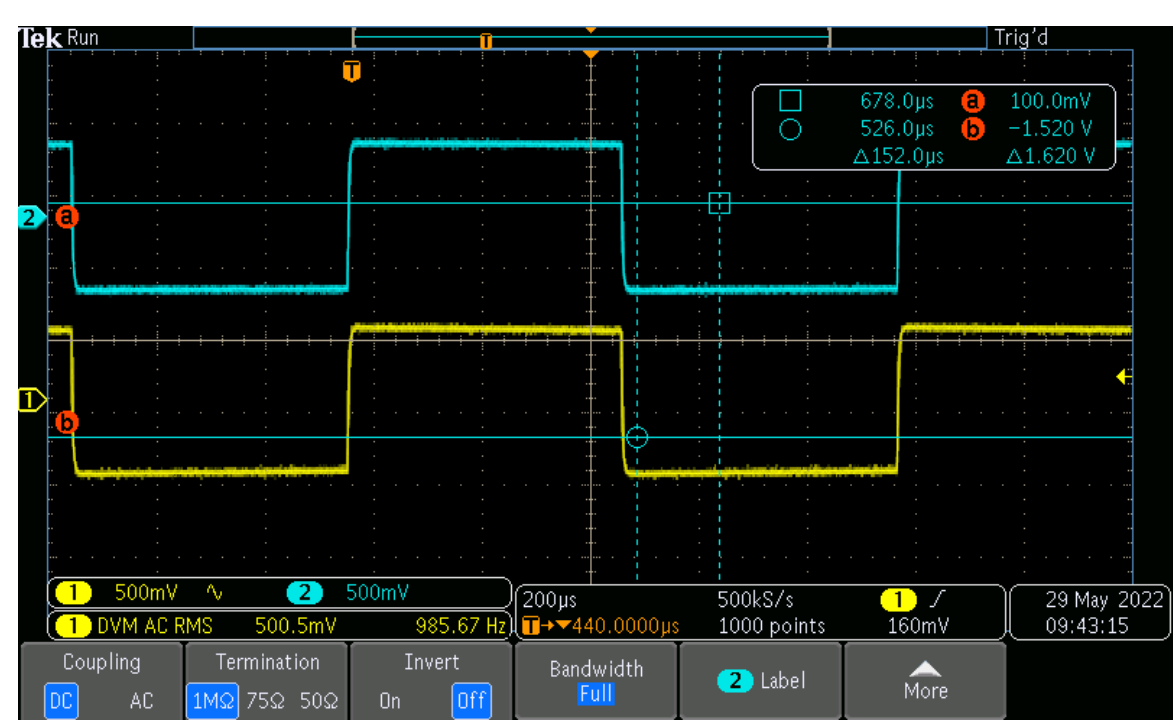
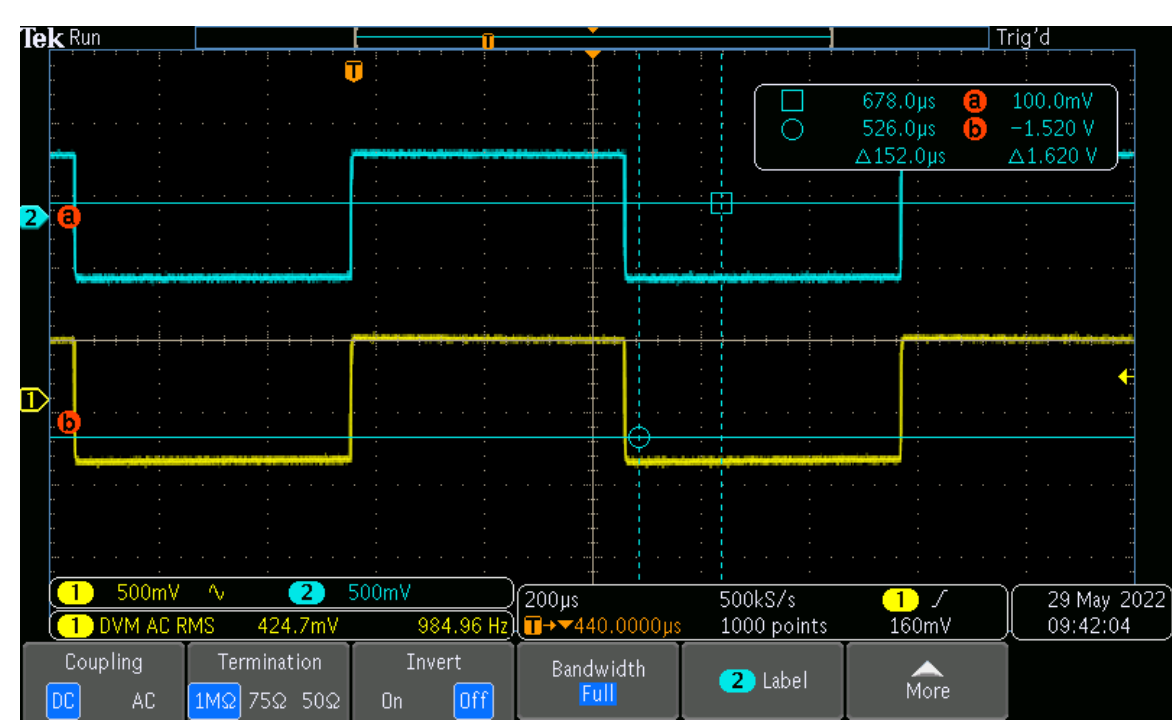
Gen 1: 1.000488 KHz @ 5.0 dBV
Gen 2: 19.00048 KHz @ -1.0 dBV

Phase L: 4.94 deg
Phase R: 4.93 deg
Delay L: -2.6 uSec
Delay R: -2.6 uSec
Gain L: 13.86 dB
Gain R: 13.87 dB

OPA1641/2 Line Level Output ay
8.7V RMS into 2k Ohms

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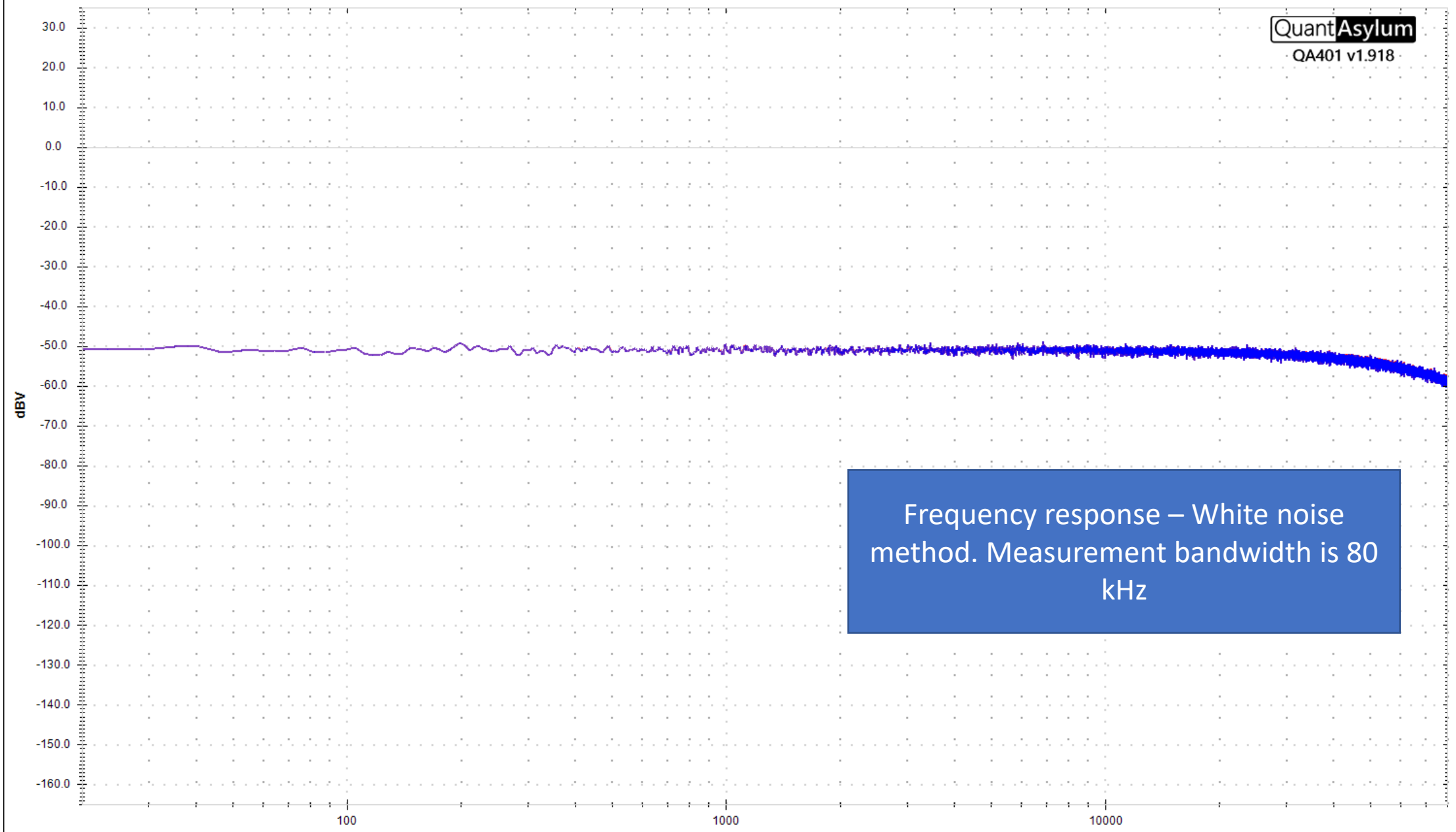


Balanced Line Level square wave response

Balanced Line Level square wave response with input fed through 10k 14 dB resistive attenuator

FFT: 32k Meas Start: 20.0 Hz Peak L: -49.04 dBV FR Gen: -40.0 dBV
Avg: 49 of 49 Meas Stop: 20.0 KHz Peak R: -49.03 dBV
Res: 5.85 Hz Peak L: 3.532 mVrms
Fs: 192 KHz Peak R: 3.534 mVrms
Win: Hann
Weight: None

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Frequency response – White noise method. Measurement bandwidth is 80 kHz

FFT: 32k
Avg: 49 of 49
Res: 5.85 Hz
Fs: 192 KHz
Win: Hann
Weight: None

Meas Start: 20.0 Hz
Meas Stop: 20.0 KHz
RMS L: 10.6 uV
RMS R: 10.7 uV

Peak L: -119.48 dBV
Peak R: -107.04 dBV
Peak L: 1.061 uVrms
Peak R: 4.446 uVrms

Gen 1: 1.001953 KHz @ 5.0 dBV
Gen 2: 19.00195 KHz @ -1.0 dBV

Discrete line level amplifier
noise floor with inputs shorted

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