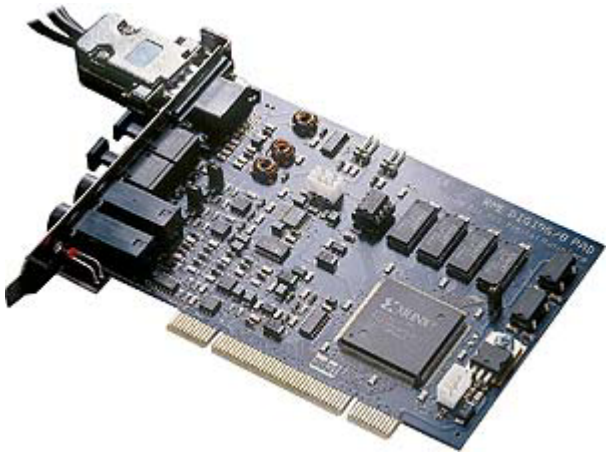
1 RME Digi96/8 PAD

High performance PCI card with stereo 96kHz/24 bit AD/DA interface.
Optical and coaxial digital interface for SPDIF, AES EBU and 8 channel ADAT input and output.



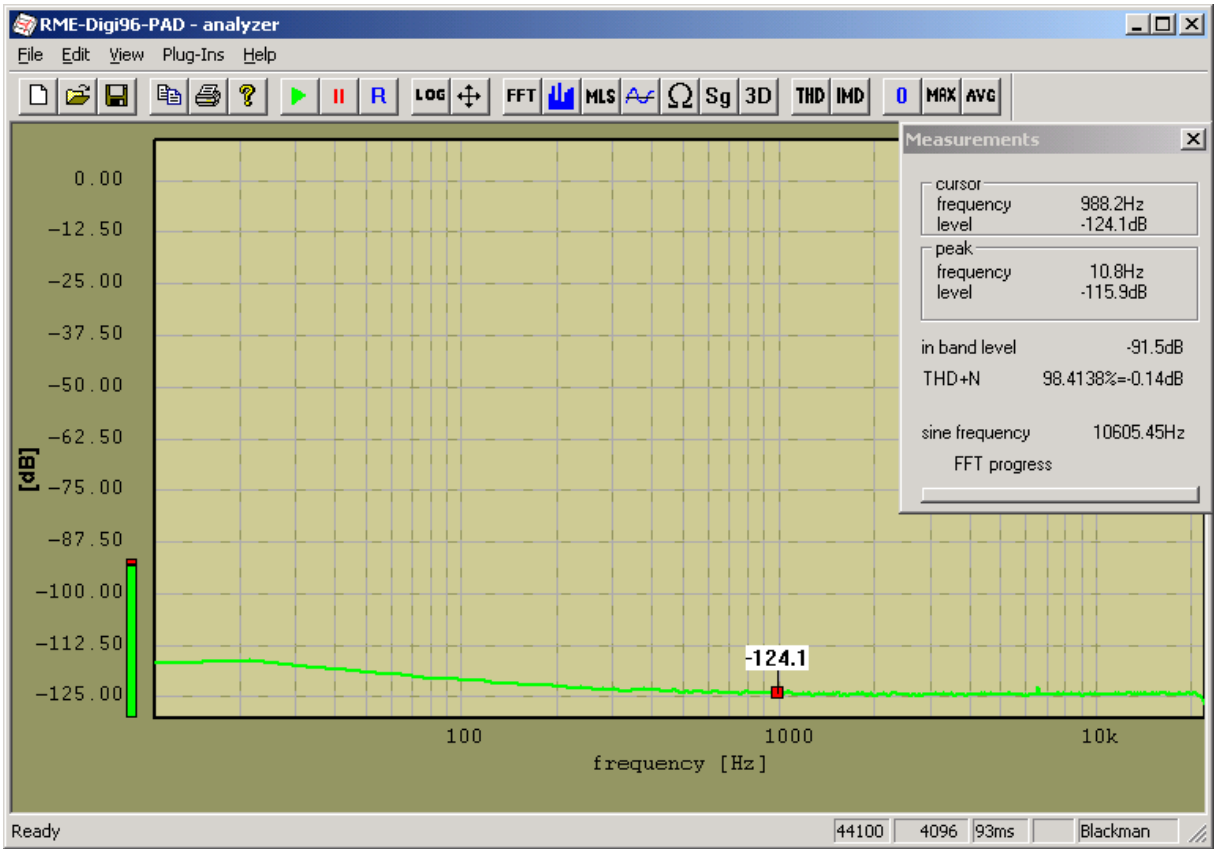
This test report utilizes the high precision plug-in for WinAudioMLS with 192kHz/24bit ASIO, the high resolution **64-bit** FFT and the **digital notch** filter. These techniques allow analyzing the high dynamic of this soundcard. Via ASIO the analyzer can also monitor the 8-channel ADAT signals.

Measurements:

1.1 Quite noise 16-bit MME 2
1.2 Quite noise 16-bit MME weighted 3
1.3 Quite noise 16-bit ASIO weighted 4
1.4 Quite noise 32-bit ASIO weighted 5
1.5 Quite noise 32-bit ASIO unweighted 6
1.6 Crosstalk input and output 7
1.7 THD+N 32 bit ASIO weighted 8
1.8 THD+N 24 bit digital link + high resolution FFT 9
1.9 THD+N 32 bit ASIO 24 bit digital link (SPDIF) 10
1.10 THD+N 32 bit ASIO 24 bit digital link (ADAT) 11
1.11 THD+N 16 bit ASIO digital link 12
1.12 Frequency response 44.1kHz analog 13
1.13 Frequency response 96kHz analog 14
1.14 Frequency response 96kHz digital 15

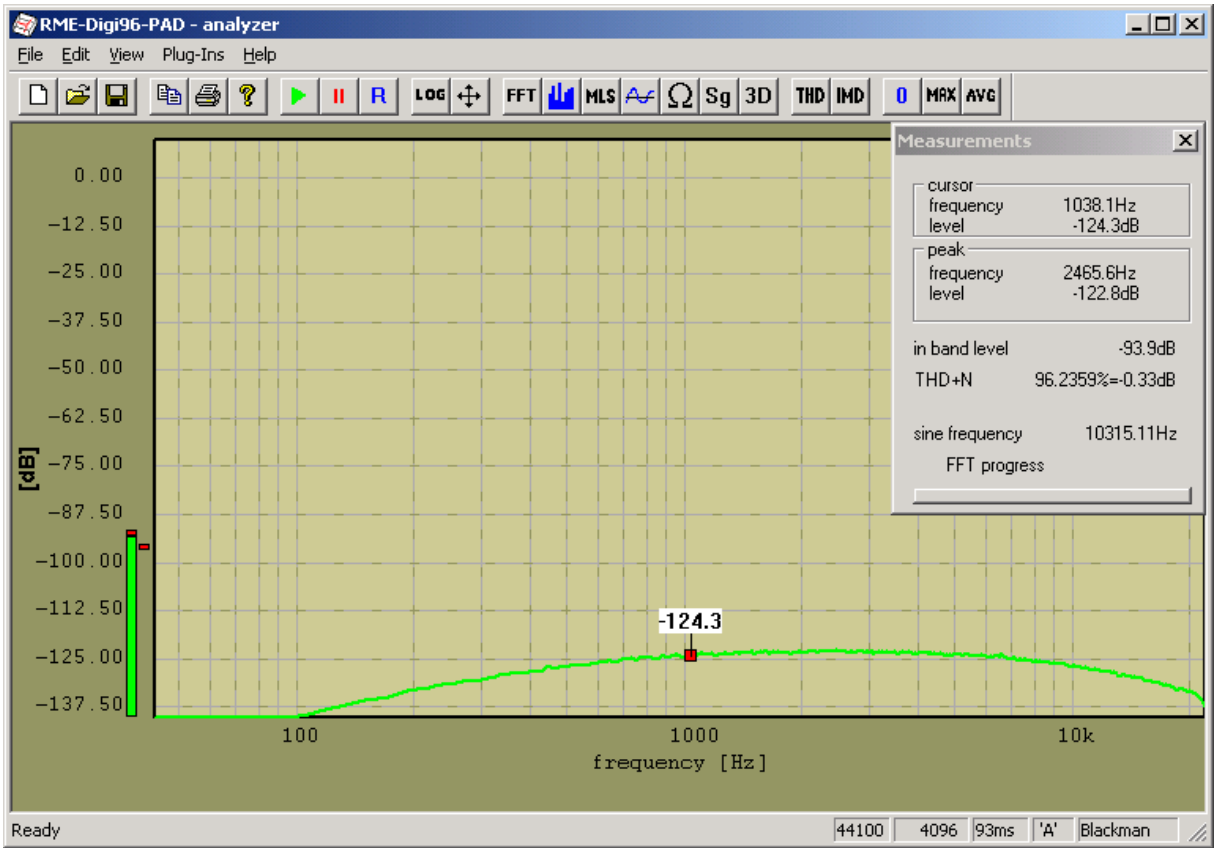
1.1 Quite noise 16-bit MME

Noise level -91.5dB unweighted



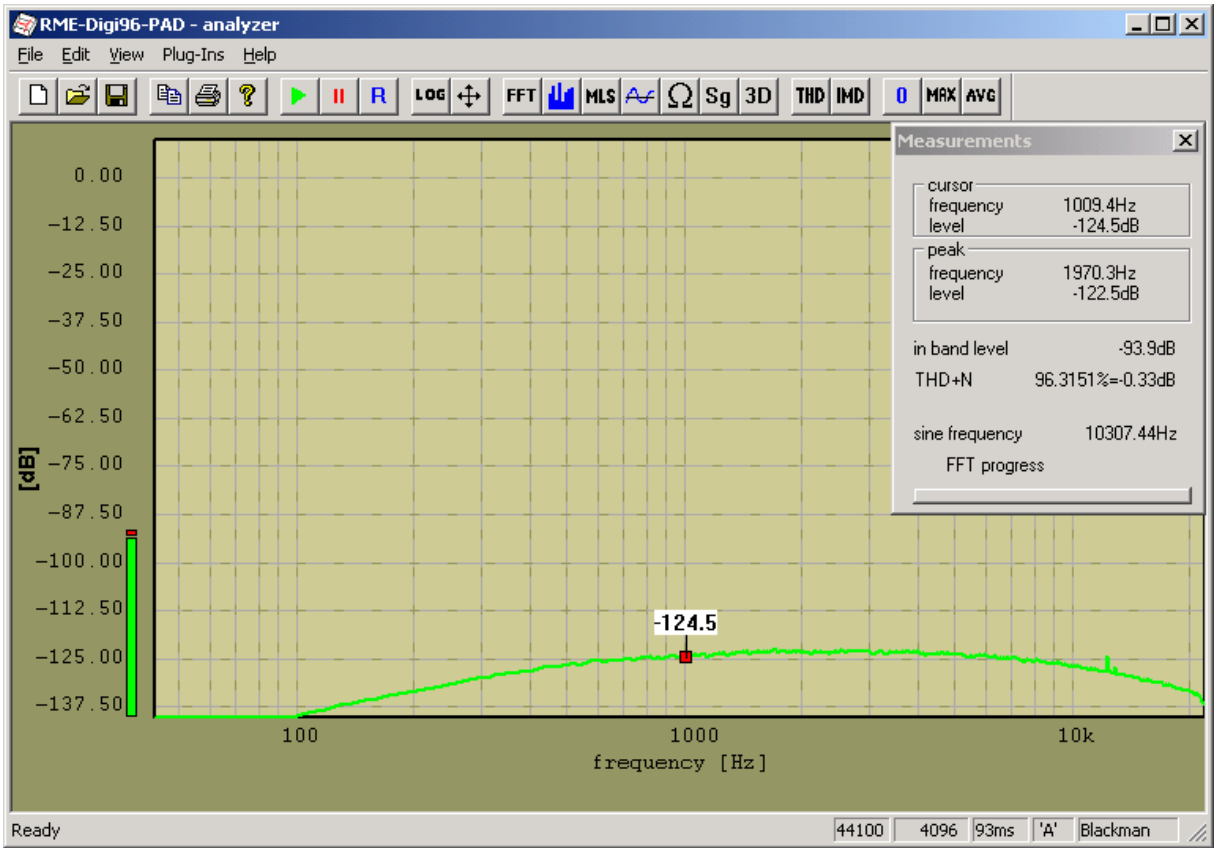
1.2 Quite noise 16-bit MME weighted

Noise level -93.9dB(A) weighted



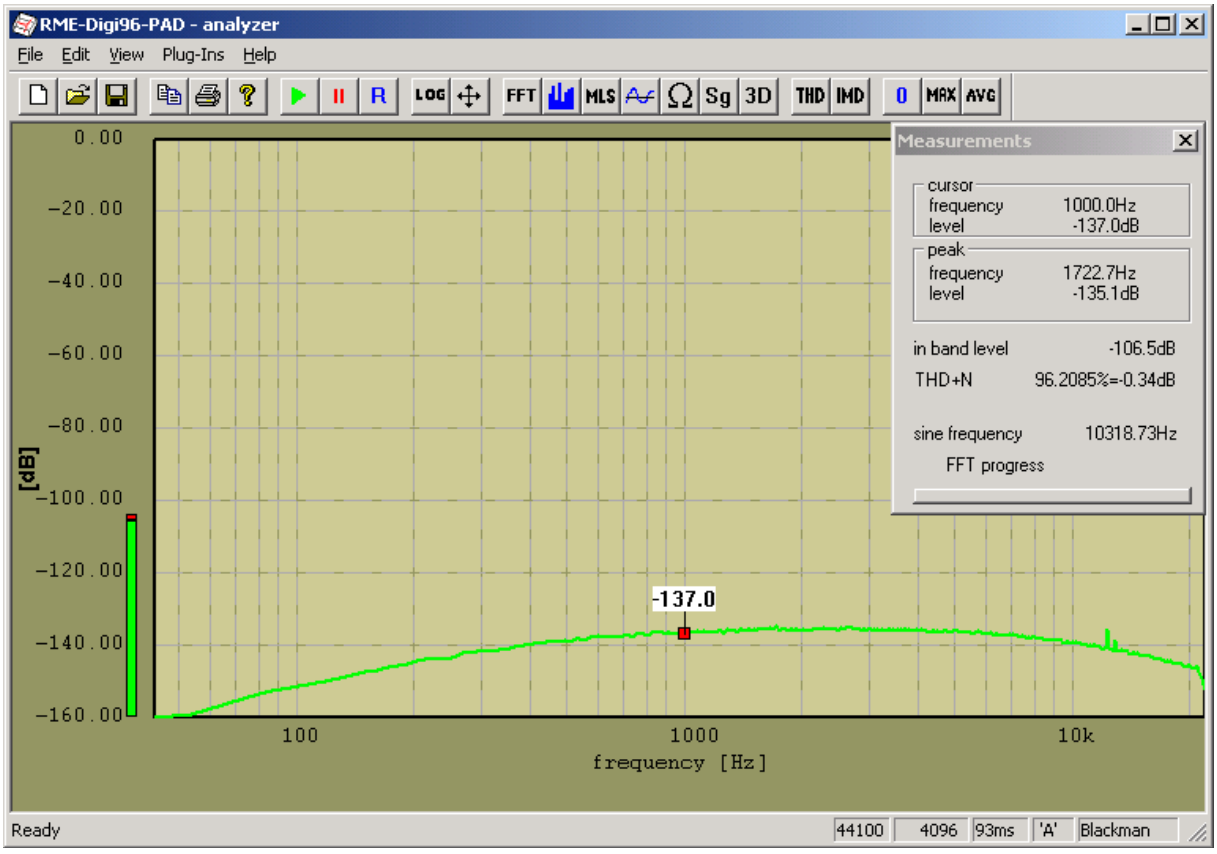
1.3 Quite noise 16-bit ASIO weighted

Noise level -93.9dB(A) weighted identical to 16 bit MME



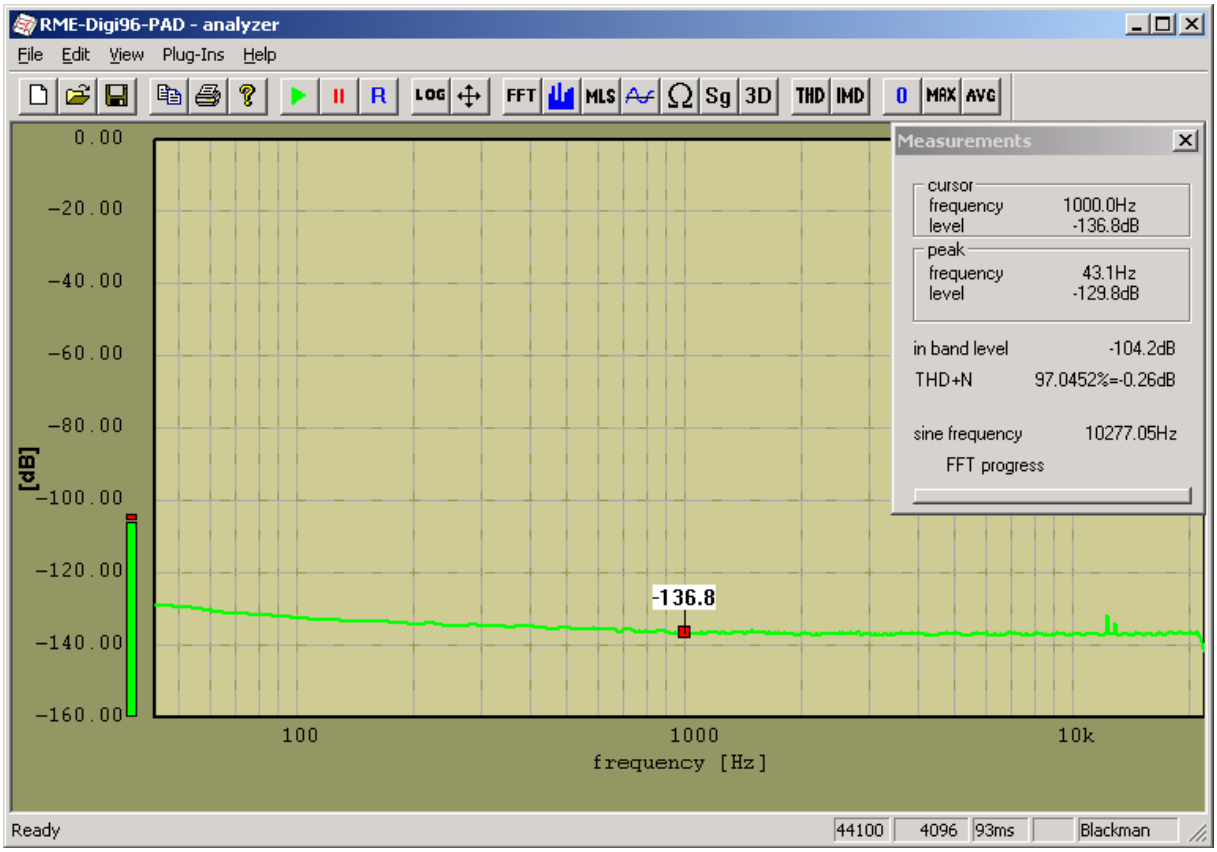
1.4 Quite noise 32-bit ASIO weighted

Noise level -106.5dB(A) weighted



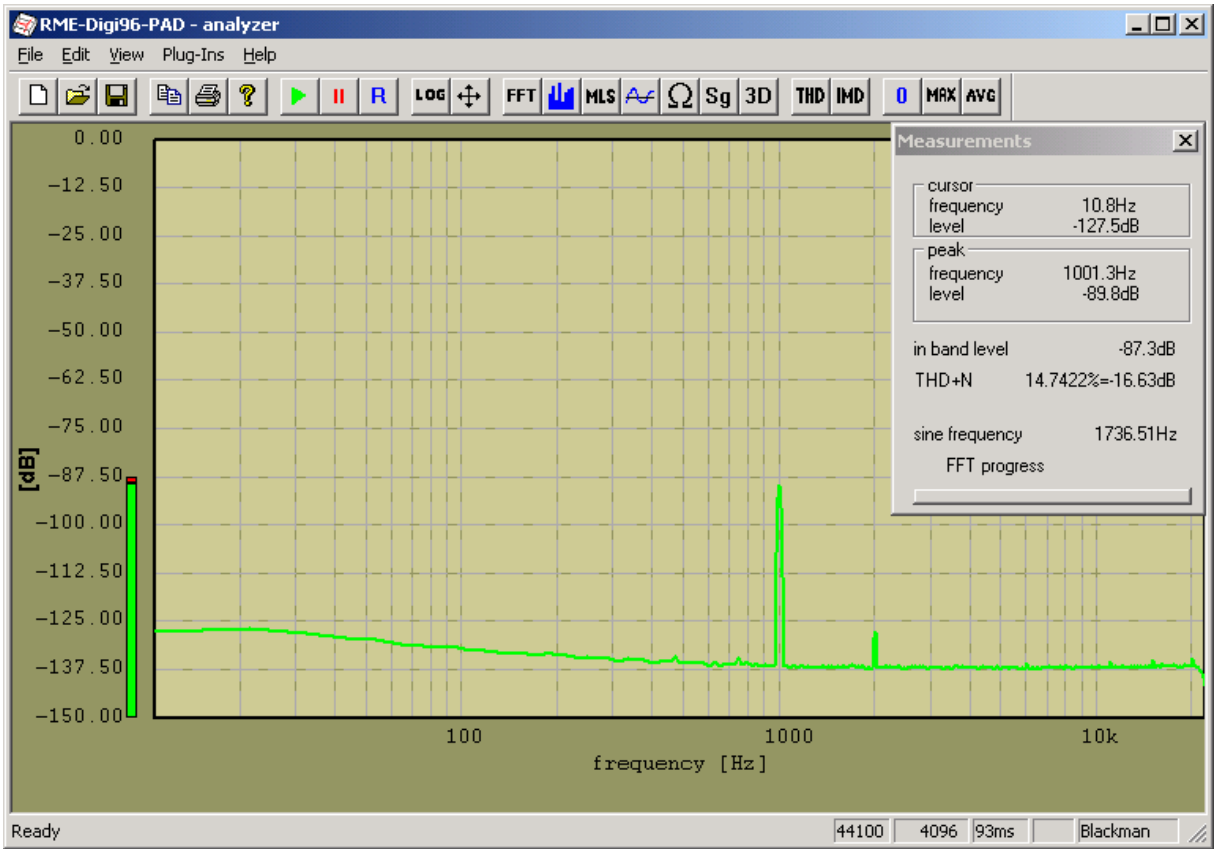
1.5 Quite noise 32-bit ASIO unweighted

Noise level at -104.2 dB.



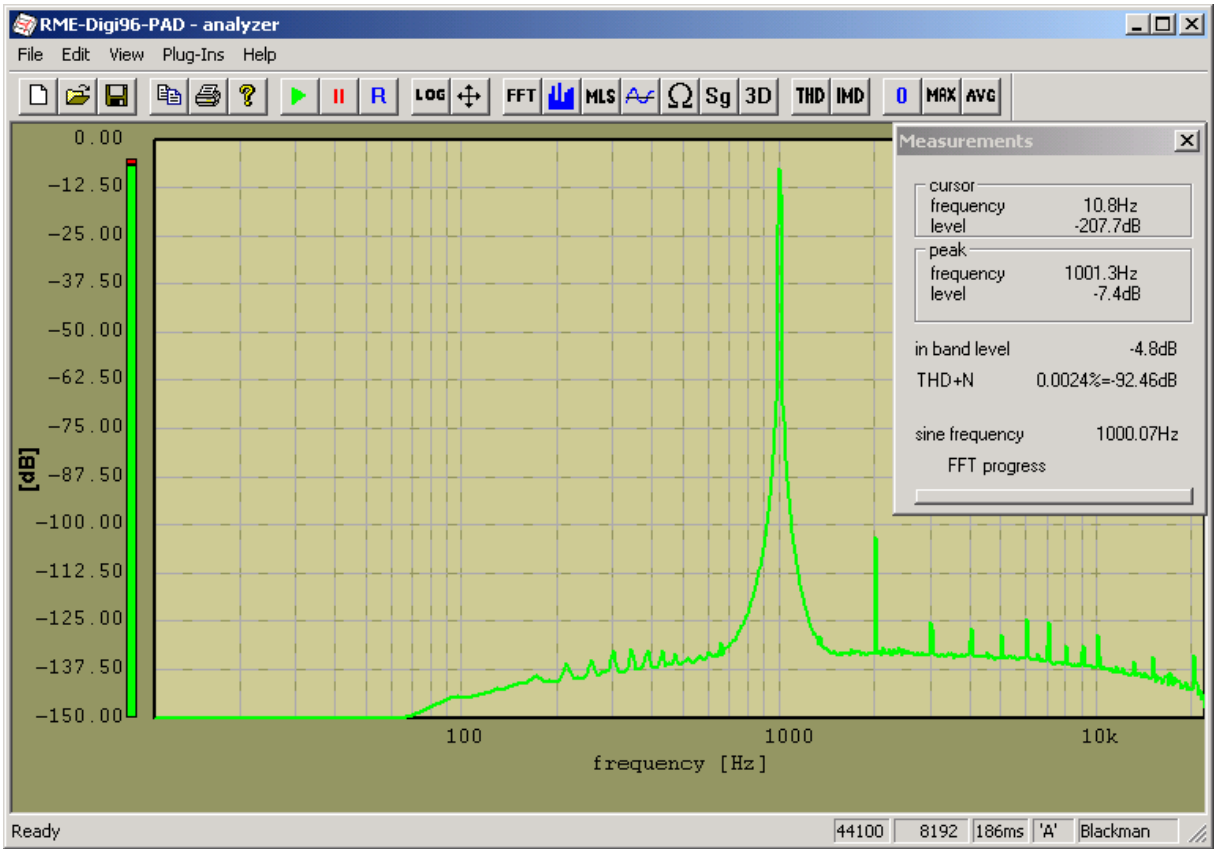
1.6 Crosstalk input and output

Output is 1kHz sine at full scale
32 bit ASIO



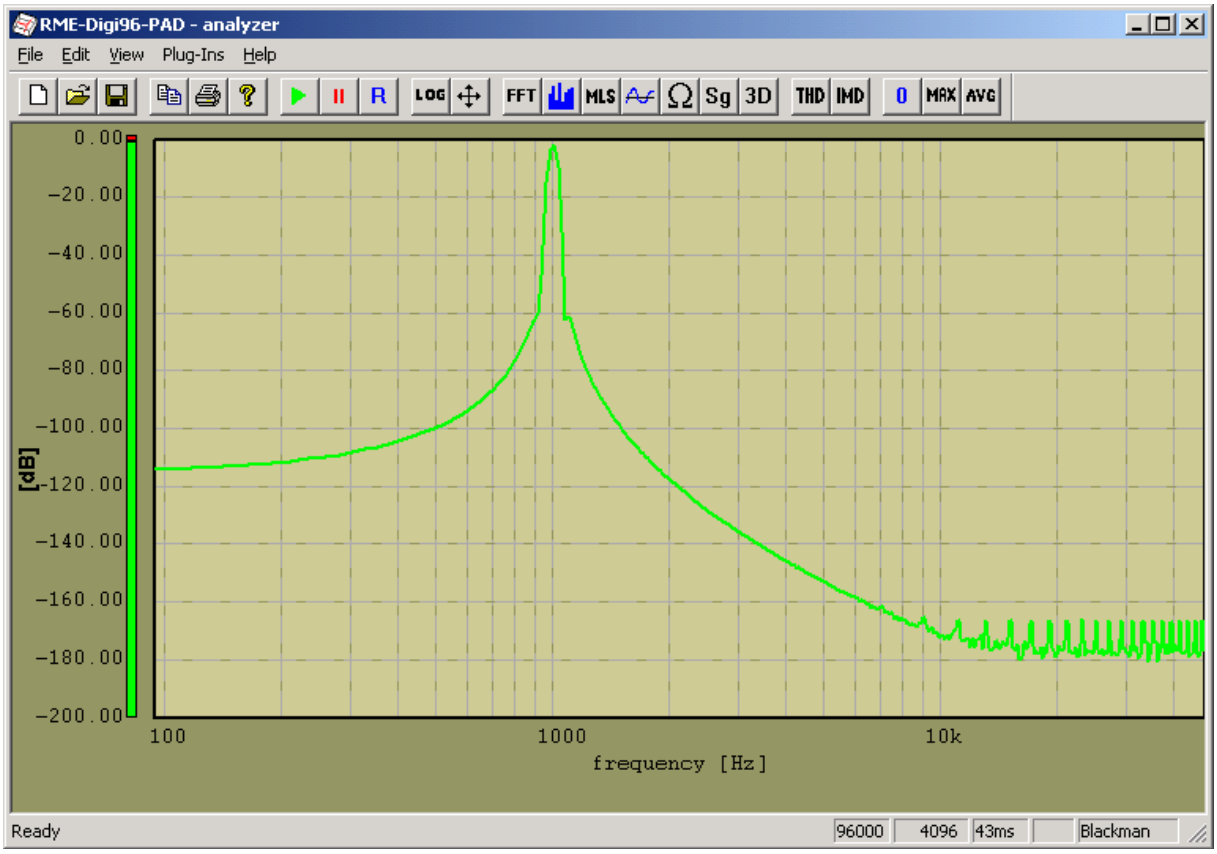
1.7 THD+N 32 bit ASIO weighted

Analog connection between input and output
THD+N -92.46 dB(A)



1.8 THD+N 24 bit digital link + high resolution FFT

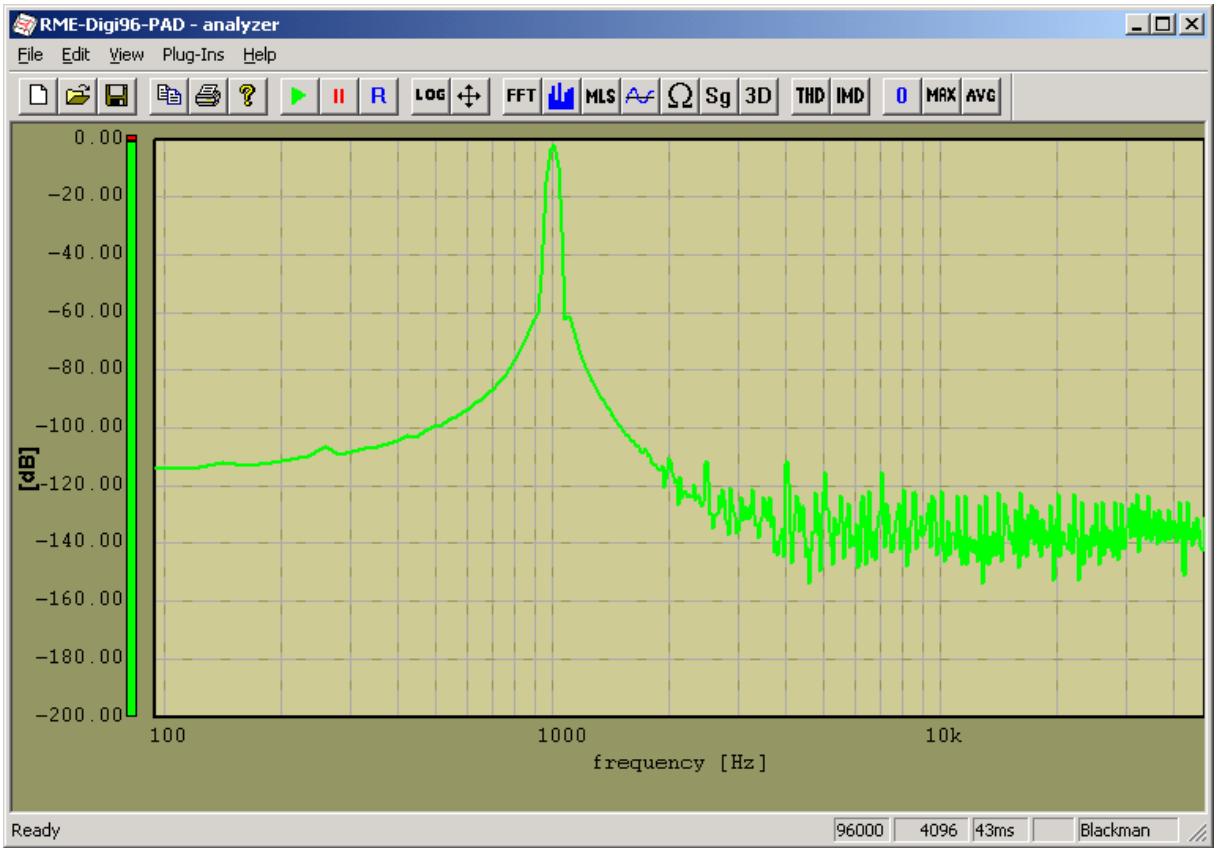
- Digital connection between input and output.
- Output is a sine with 1kHz at full scale.
- **64 bit** high resolution FFT.
- Sample rate is 96kHz.



1.9 THD+N 32 bit ASIO 24 bit digital link (SPDIF)

- Digital connection between input and output.
- Output is a sine with 1kHz at full scale.
- **32 bit** normal resolution FFT.
- Sample rate is 96kHz.

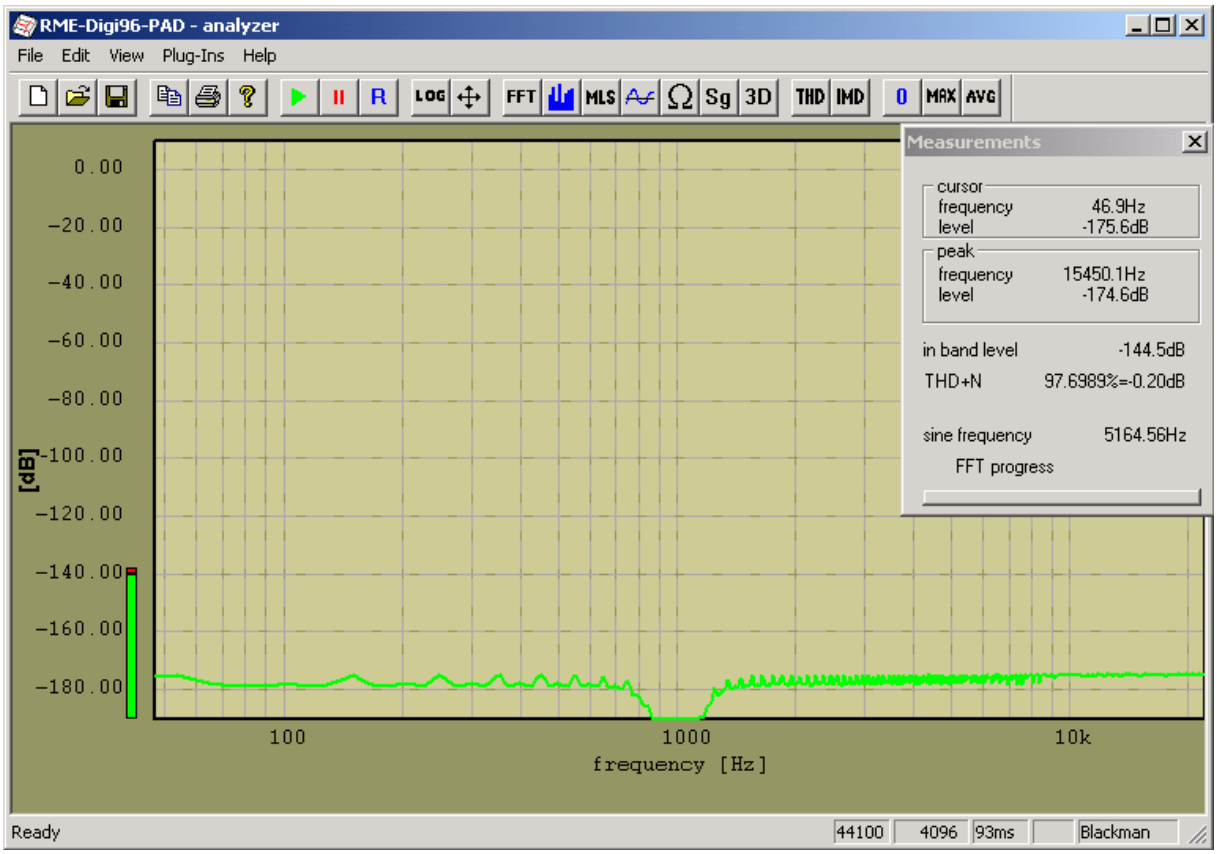
This plot shows clearly the noise introduced by the normal 32 bit FFT.



1.10 THD+N 32 bit ASIO 24 bit digital link (ADAT)

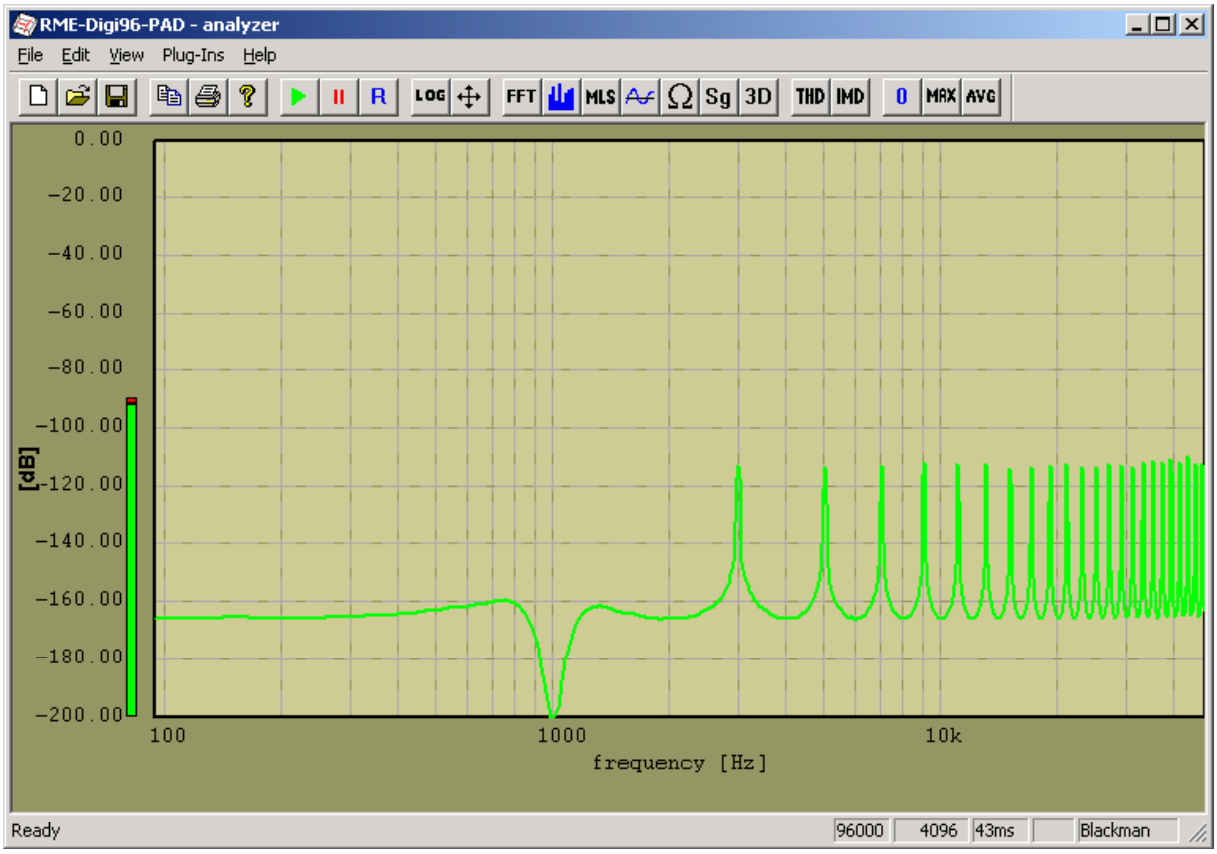
Digital connection between input and output. Output is a sine with 1kHz at full scale. The analyser uses the digital filter plug-in to remove the base frequency with a 1kHz notch filter. This technique demonstrates the capabilities of WinAudioMLS to measure signals with very high precision.

THD+N -144.5 dB



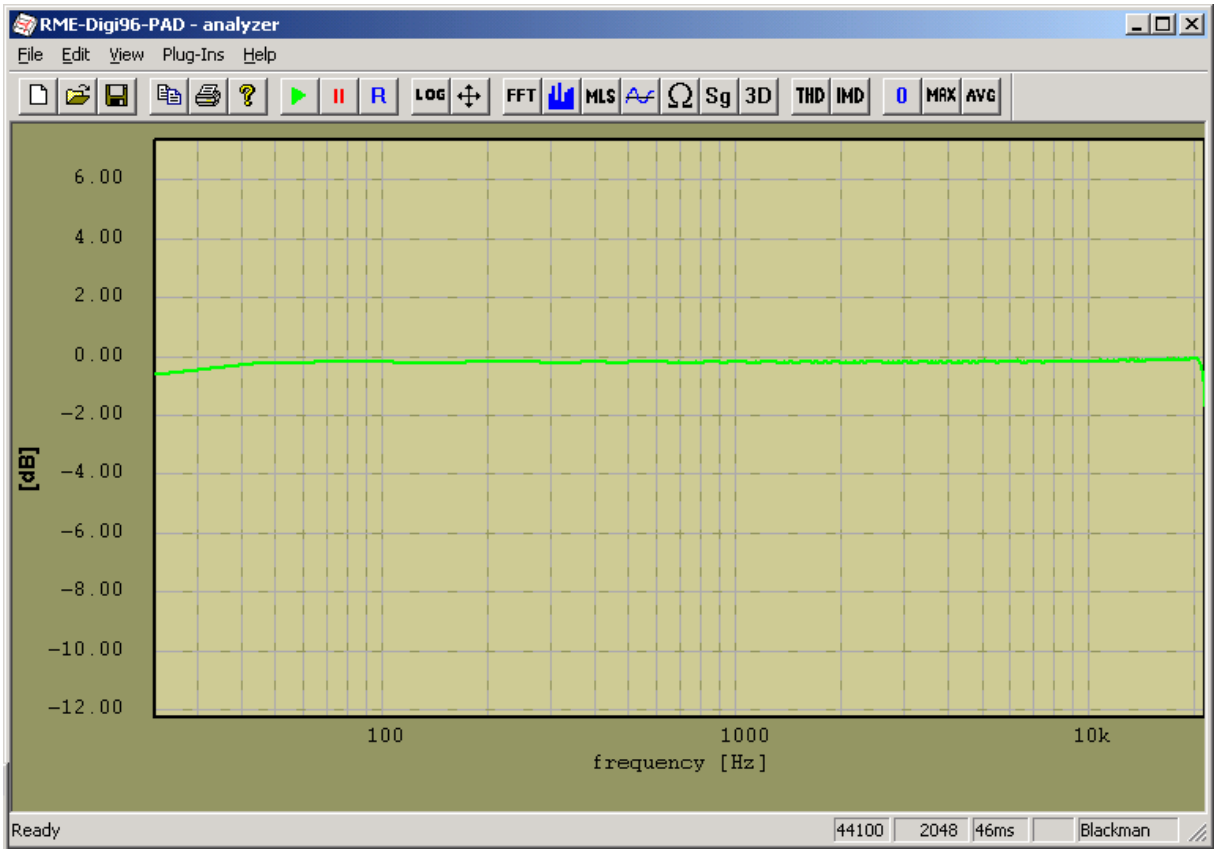
1.11 THD+N 16 bit ASIO digital link

- Digital connection between input and output.
- Output is a sine with 1kHz at full scale.
- The analyser uses the digital filter plug-in to remove the base frequency with a 1kHz notch filter.
- Sample rate is 96kHz.



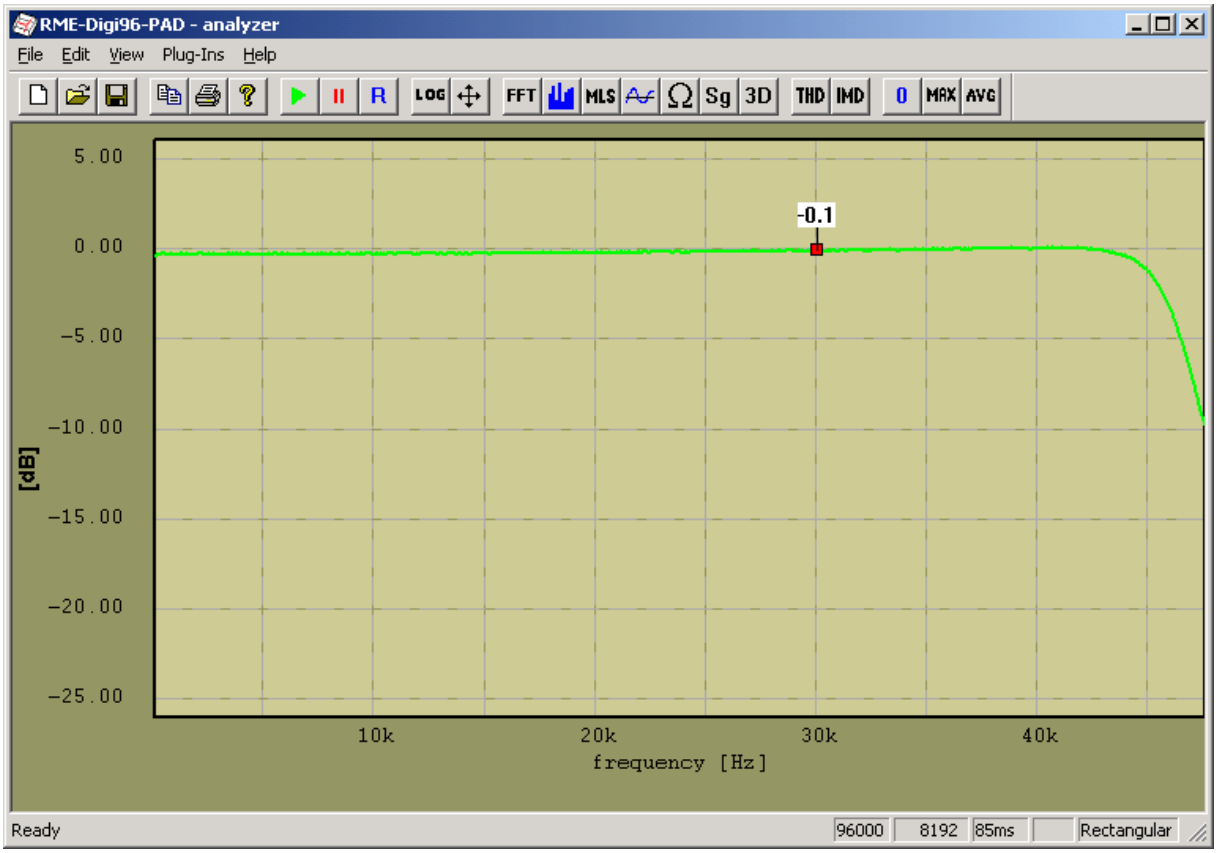
1.12 Frequency response 44.1kHz analog

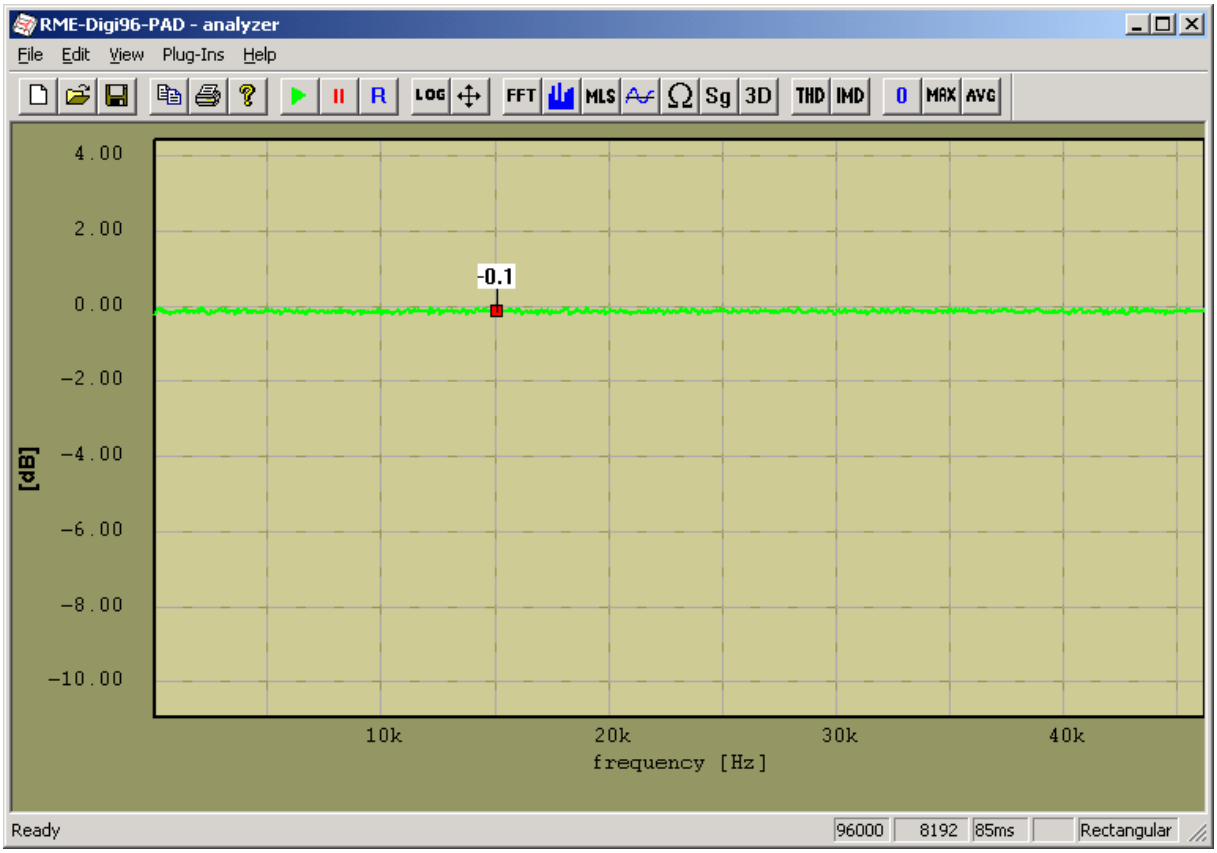
- Sample rate is 44.1kHz.
- 32 bit ASIO mode



1.13 Frequency response 96kHz analog

- Sample rate is 96kHz.
- 32 bit ASIO mode



1.14 Frequency response 96kHz digital

- Sample rate is 96kHz.
- 32 bit ASIO mode.
- Optical SPDIF link.