

EMU0202



<http://www.emu.com>

Features

- High-Speed USB 2.0
- 2 channels input and output
- Up to 192K sampling rate in full duplex
- Analog bandwidths 96kHz
- 24 bit resolution.
- Microphone preamplifier
- USB Bus powered

Lowlights (supported by the EMU0404)

- No digital interfaces
- No phantom power for microphones

Setup

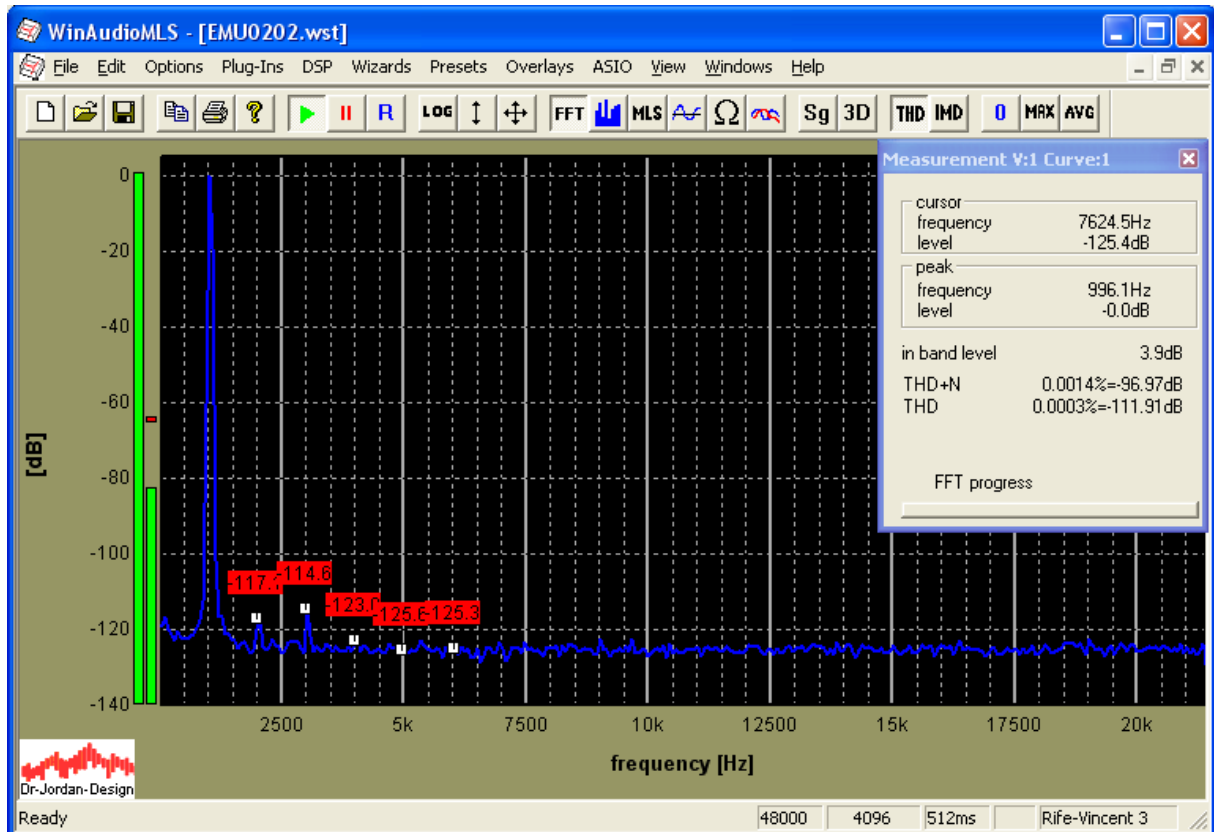
- WinAudioMLS PRO EX
- ASIO 24bit/192kHz plug-in
- 64bit FFT plug-in
- Sweep Tracking plug-in
- Input and output of channel 1 connected with a balanced cable

Distortion and Noise Analysis

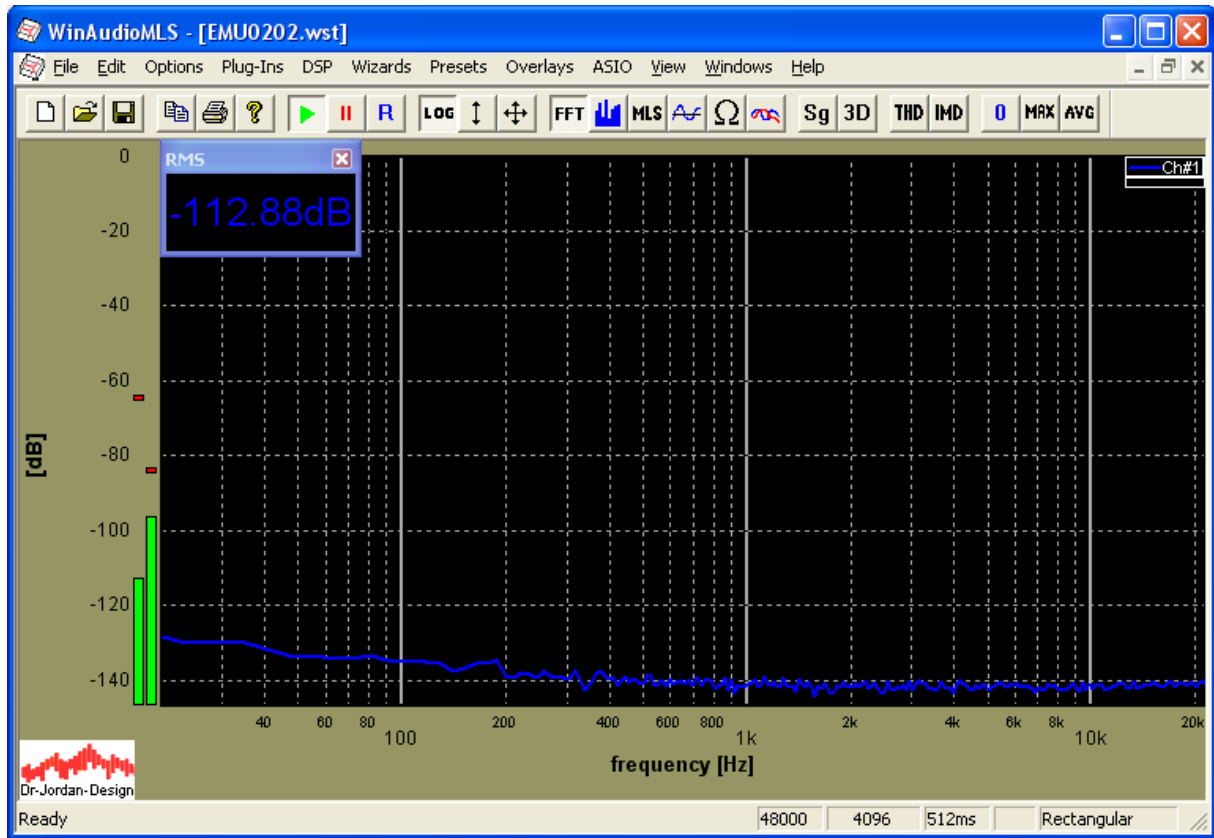
Input and output connected via line inputs.

Input frequency is 1kHz.

Sample rate is 48kHz



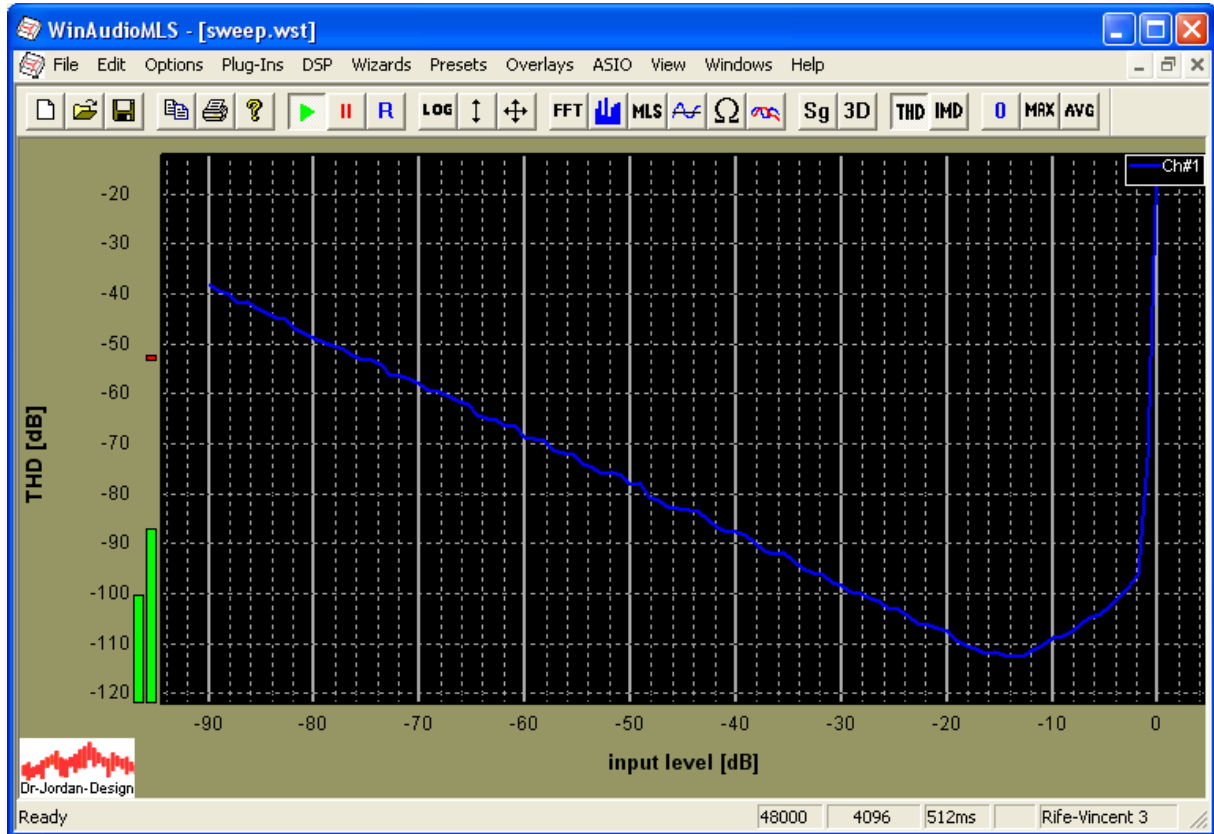
Input grounded



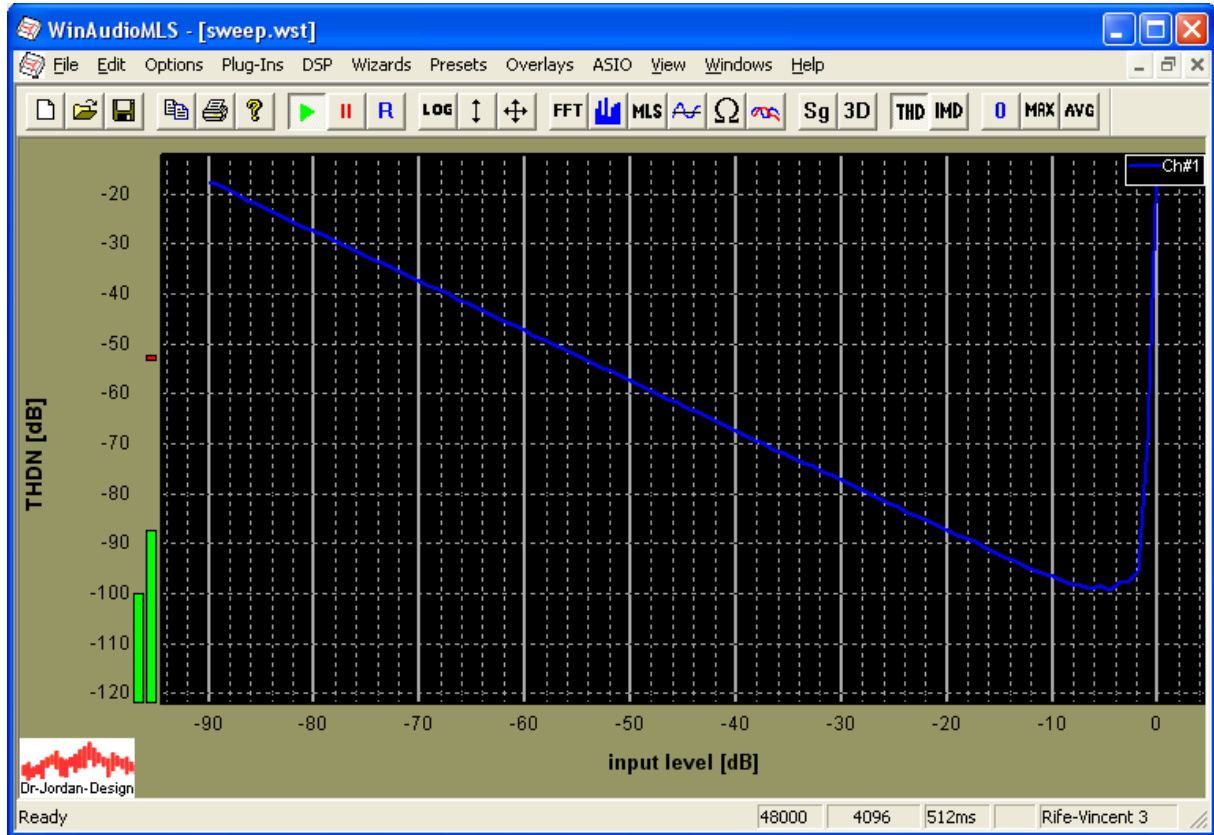
Dynamic range is almost 113dB

THD vs digital level

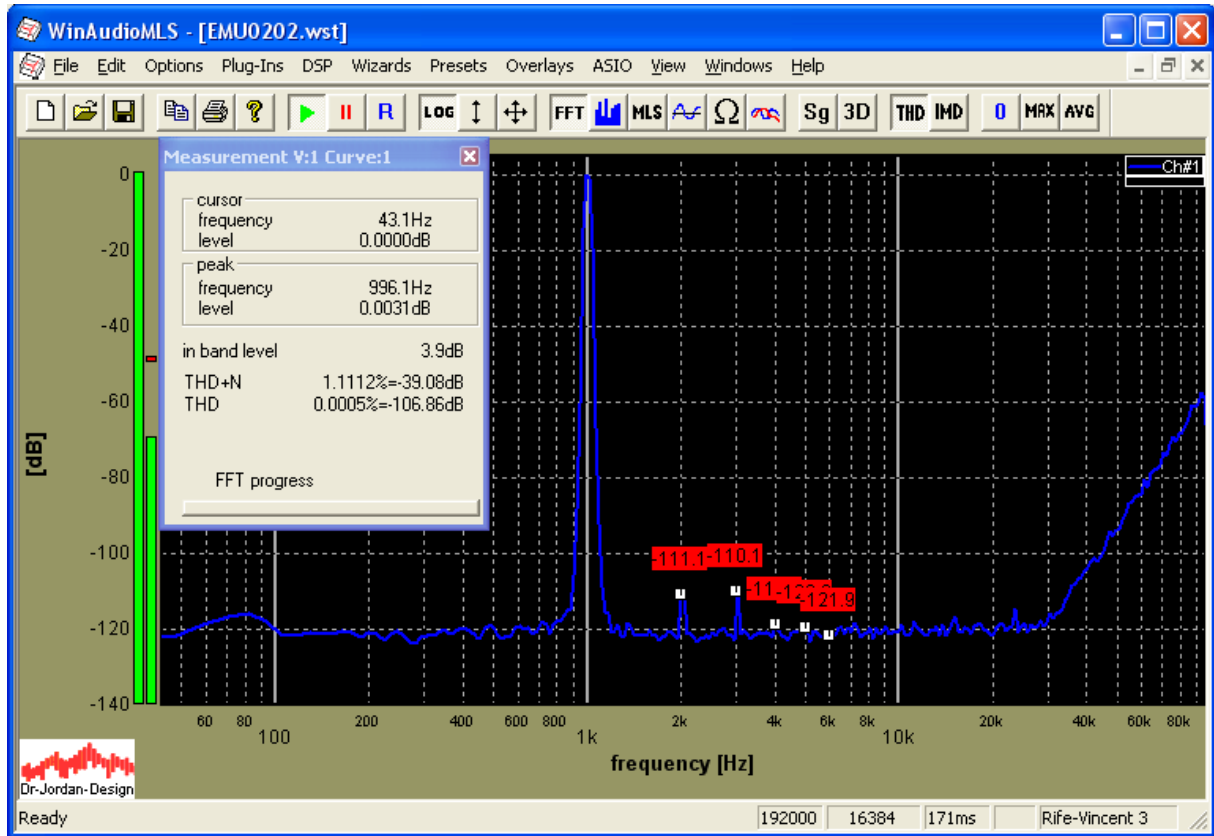
Input gain set to min



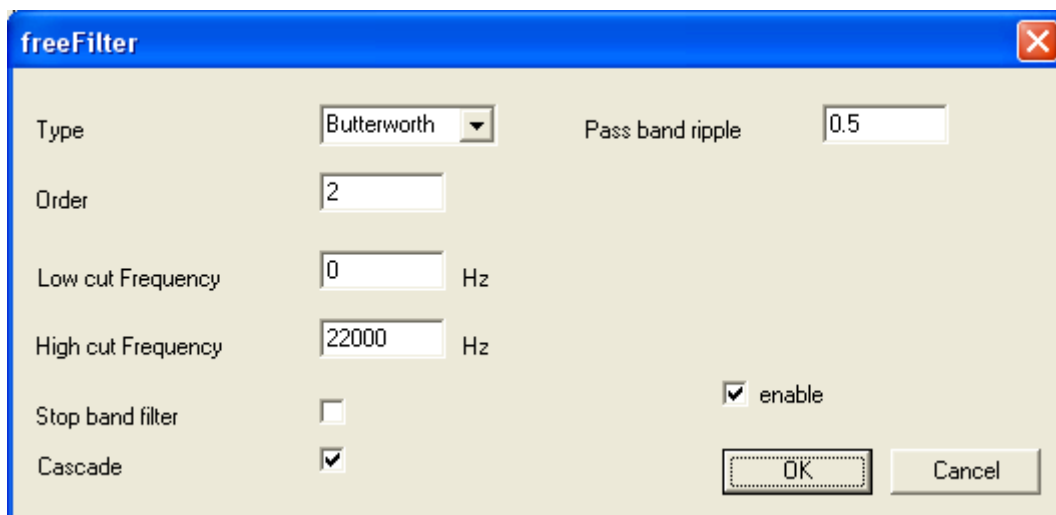
THD+N vs frequency

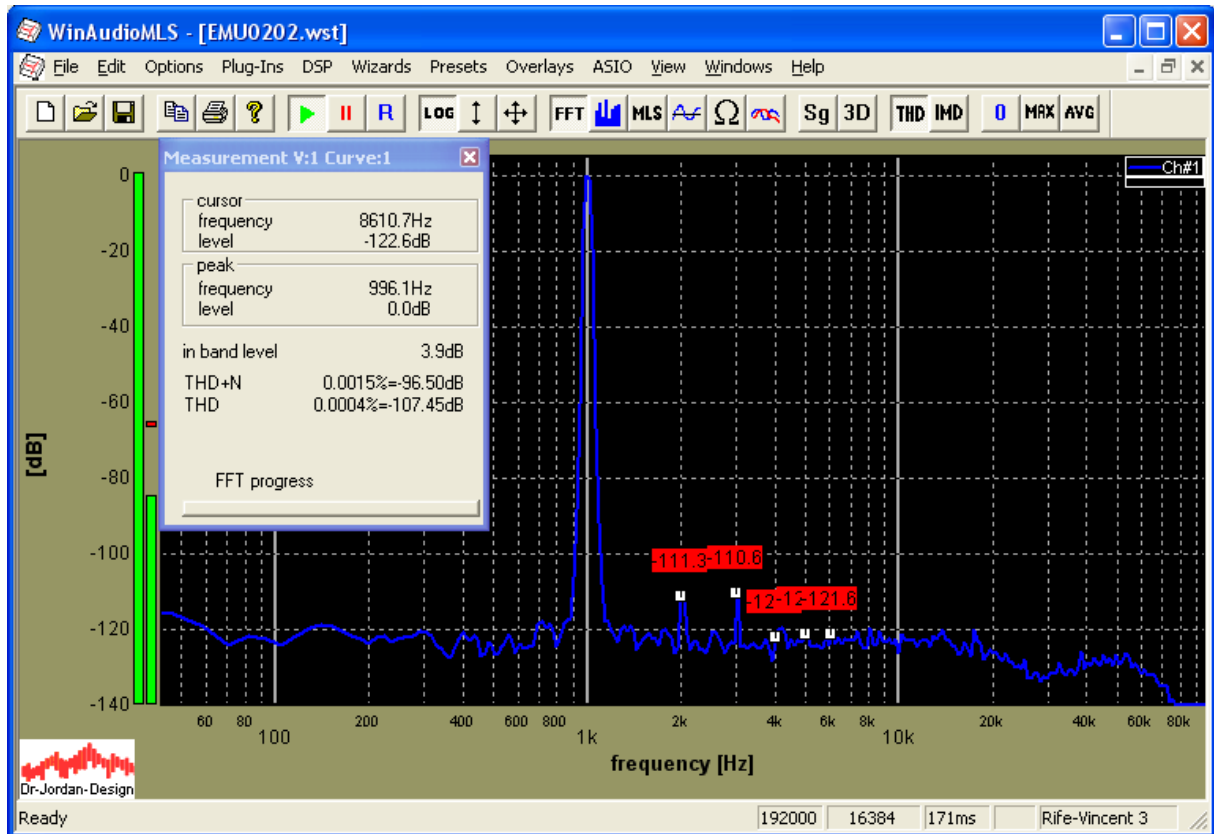


192kHz Distortion



Significant aliasing components above 30kHz which reduces the wide-band THD+N. We can remove such components with a digital low-pass filter.





Frequency response at 192kHz

