FOURAUDIO HD2

Four Audio GmbH & Co. KG
Bergdriesch 24-26
52062 Aachen
Germany

Tel.: +49 241 51869882
Mob.: +49 178 7800727
Fax:. +49 3212 1032199
web: www.four-audio.com
email: info@four-audio.com

Seat: Aachen
Entry in the commercial register at the Local Court Aachen: HRA6830
VAT Nr.: DE254820401

Partner liable to unlimited extent:

Four Audio Verwaltungsgesellschaft mbH
Bergdriesch 24-26
52062 Aachen
Germany

Seat: Aachen
Entry in the commercial register at the local court Aachen: HRB 14189

Managing Director: Dr.-Ing. Rainer Thaden

Type:	HD2, 6 inputs to 8 outputs
analog Inputs:	6
analog Outputs:	8
digital Inputs:	max. 8 AES/EBU / S/P-DIF multiplexed
digital Outputs:	1 AES/EBU / S/P-DIF
Interfaces:	Ethernet, RS232 (internal)

Analog Inputs:	Max. Input Level:	+28	dBu
	Dynamic Range (linear weigthed):	135	dB
	THD @ +4 dBu input level:	-118	dB
	THD @ +21 dBu input level:	-110	dB
	DIM100 @ +4 dBu input level:	-95	dB
	DIM100 @ +21 dBu input level:	-95	dB
Analog Outputs:	Max. Output Level:	+18	dBu
	Dynamic Range (linear weigthed):	120	dB
	THD @ +4 dBu output level:	-105	dB
	THD @ +16 dBu output level:	-95	dB
	DIM100 @ +4 dBu output level:	-85	dB
	DIM100 @ +16 dBu output level:	-85	dB

Digital Inputs:	Type:	AES/EBU, S/P-DIF
	Resolution:	24-Bit
	Sample Rate with SRC:	32-192 kHz
Digital Outputs:	Type:	AES/EBU, S/P-DIF
	Resolution:	24-Bit
	Sample Rate::	48/96/192 kHz

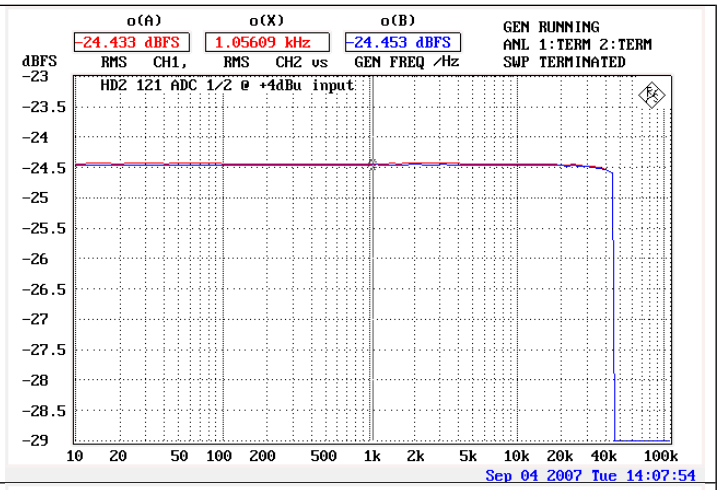
Frequency Response ADC 1/2

Signal-Input: analog 1/2
Input-Level: +4 dBu

Signal-Output: dig. AES/EBU

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBfs]



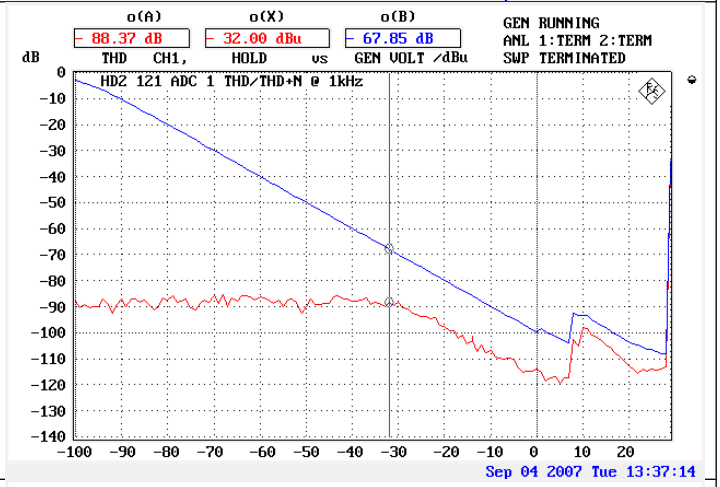
THD/THD+N @ 1 kHz ADC 1

Signal-Input: analog 1
Input-Level: -100..+29 dBu

Signal-Output: dig. AES/EBU

Sample Rate: 96 kHz

X-Axis: Input Level [dBu]
Y-Axis: THD+N(bl)/THD(re) [dB]



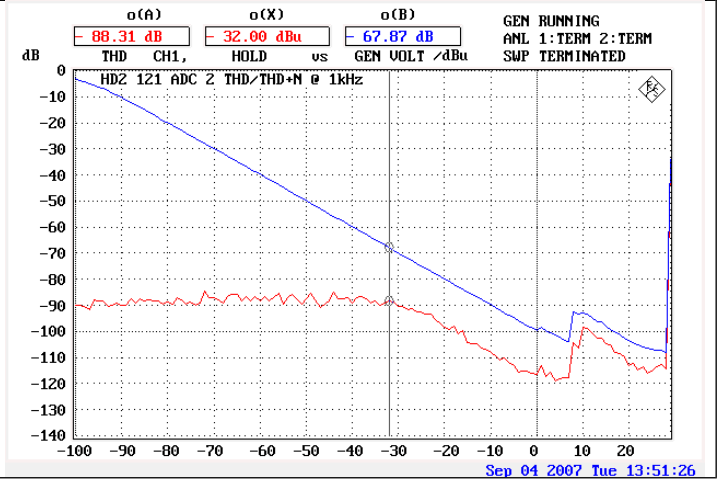
THD/THD+N @ 1 kHz ADC 2

Signal-Input: analog 2
Input-Level: -100..+29 dBu

Signal-Output: dig. AES/EBU

Sample Rate: 96 kHz

X-Axis: Input Level [dBu]
Y-Axis: THD+N(bl)/THD(re) [dB]



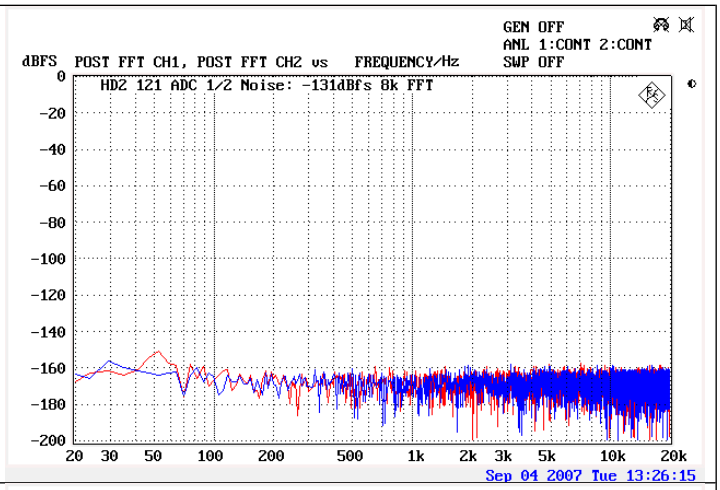
Noise ADC 1/2

Signal-Input: analog 1/2
Input-Level: -

Signal-Output: dig. AES/EBU

Sample Rate: 48 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBfs]



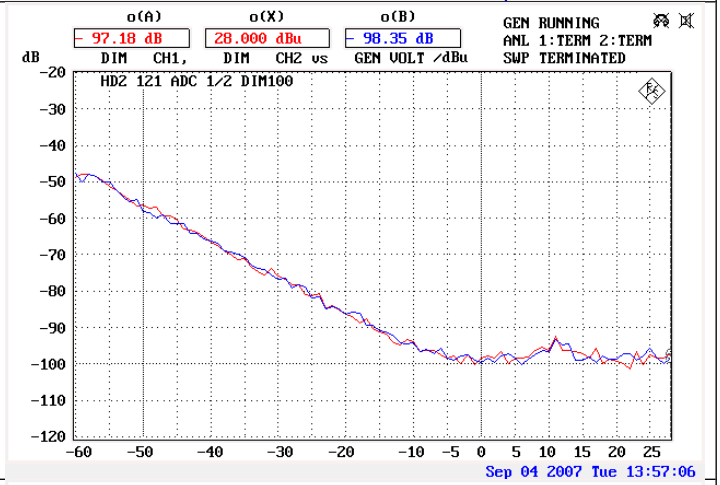
DIM100 ADC 1/2

Signal-Input: analog 1/2
Input-Level: -60..+28 dBu

Signal-Output: dig. AES/EBU

Sample Rate: 48 kHz

X-Axis: Input Level [dBu]
Y-Axis: DIM(bl)/DIM(re) [dB]



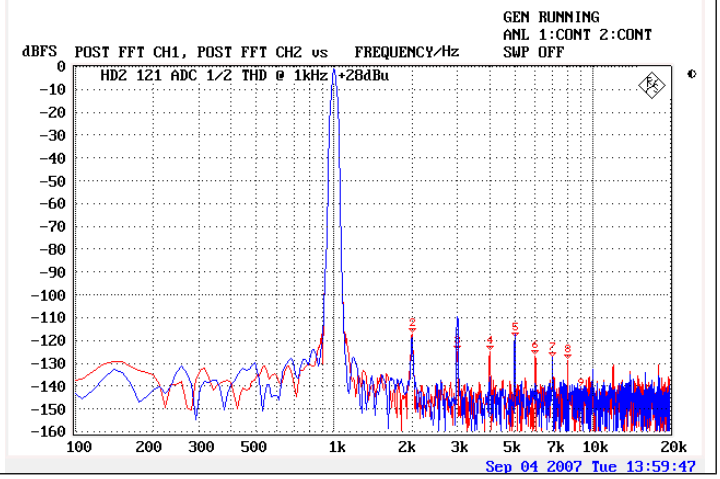
THD+N @ 1kHz: ADC 1/2

Signal-Input: analog 1/2
Input-Level: +28 dBu

Signal-Output: dig. AES/EBU

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: 8k FFT Spectrum



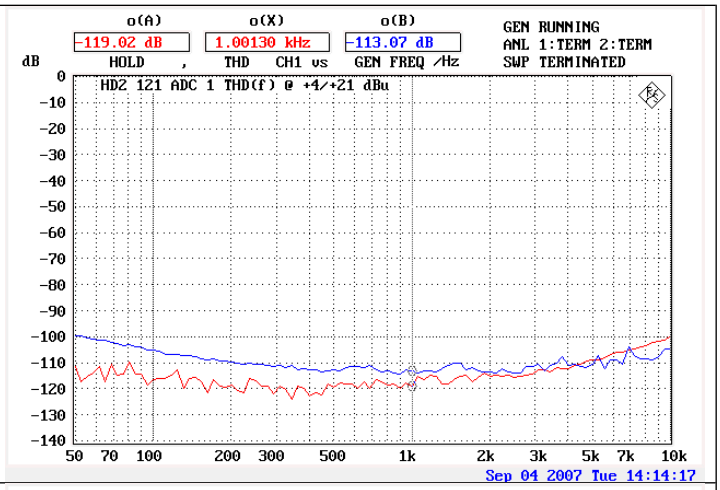
THD(f)

Signal-Input: analog 1
Input-Level: +4(re)/+21(bl) dBu

Signal-Output: dig. AES/EBU

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: THD [dB]



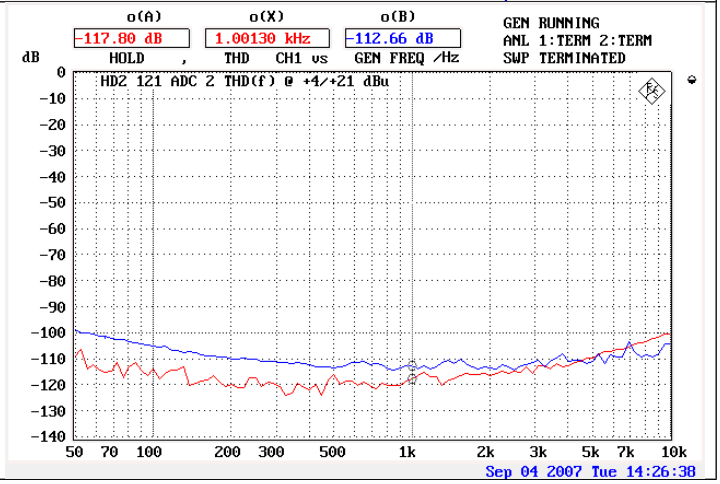
THD(f)

Signal-Input: analog 2
Input-Level: +4(re)/+21(bl) dBu

Signal-Output: dig. AES/EBU

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: THD [dB]



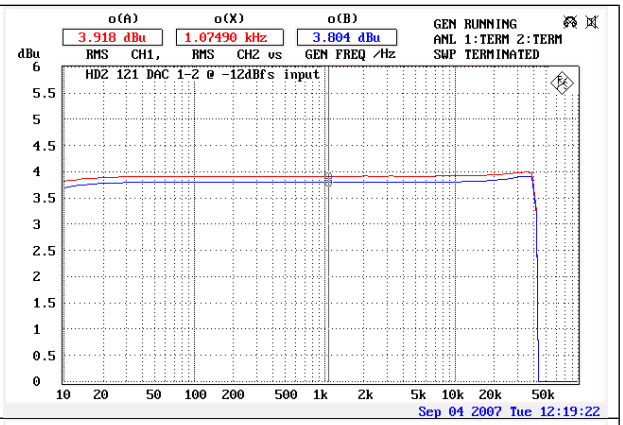
Frequency Response DAC 1/2

Signal-Input: digital AES/EBU
Input-Level: -12 dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBu]



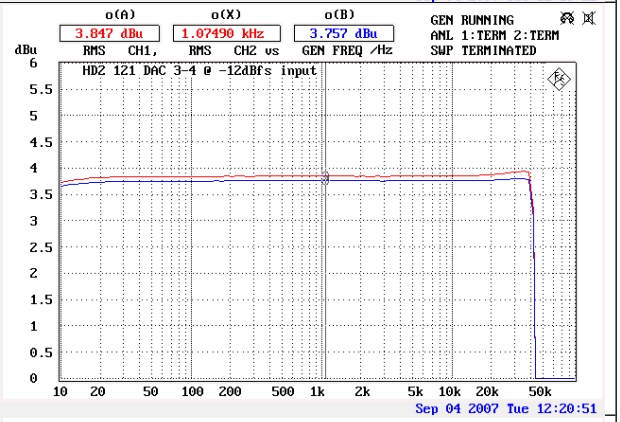
Frequency Response DAC 3/4

Signal-Input: digital AES/EBU
Input-Level: -12 dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBu]



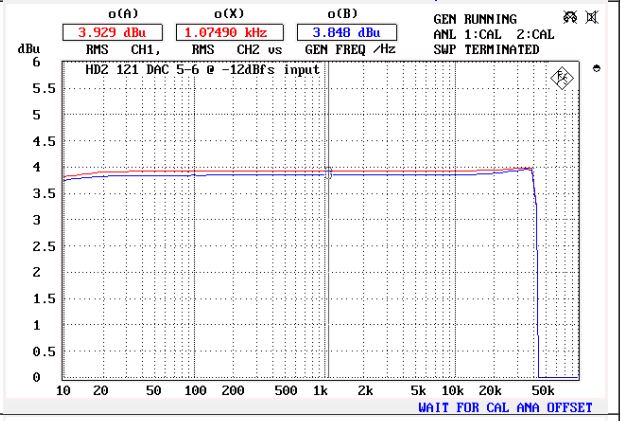
Frequency Response DAC 5/6

Signal-Input: digital AES/EBU
Input-Level: -12 dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBu]



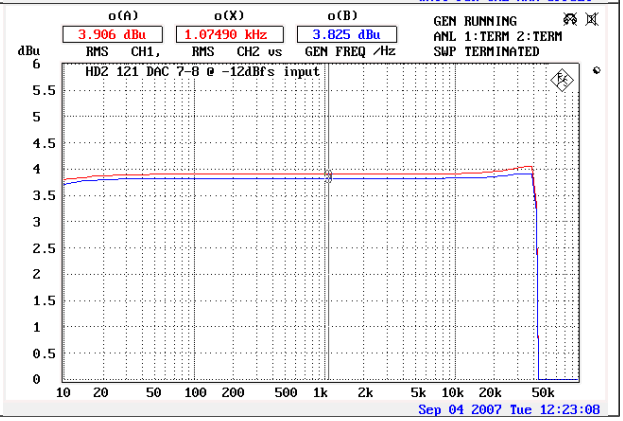
Frequency Response DAC 7/8

Signal-Input: digital AES/EBU
Input-Level: -12 dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBu]



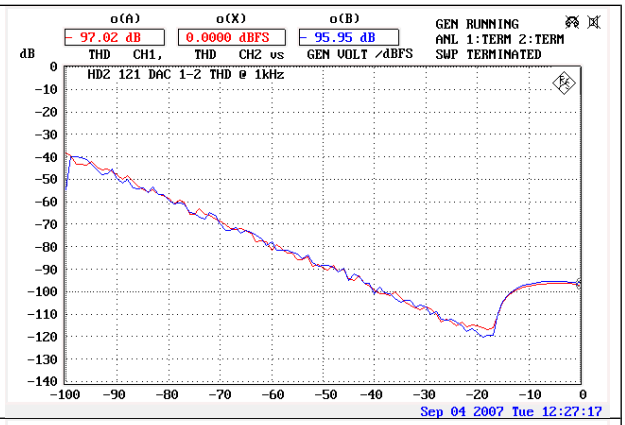
THD @ 1 kHz DAC 1/2

Signal-Input: digital AES/EBU
Input-Level: -100..0 dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Input Level [dBfs]
Y-Axis: THD(Ch1)/THD(Ch2)



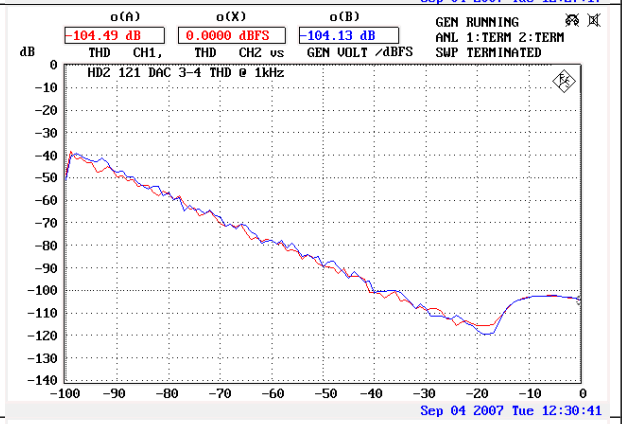
THD @ 1 kHz DAC 3/4

Signal-Input: digital AES/EBU
Input-Level: -100..0 dBfs

Signal-Output: analog Output 3/4

Sample Rate: 96 kHz

X-Axis: Input Level [dBfs]
Y-Axis: THD(Ch3)/THD(Ch4)



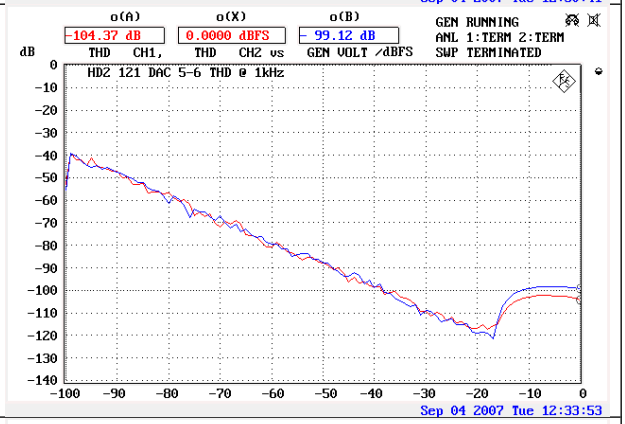
THD @ 1 kHz DAC 5/6

Signal-Input: digital AES/EBU
Input-Level: -100..0 dBfs

Signal-Output: analog Output 5/6

Sample Rate: 96 kHz

X-Axis: Input Level [dBfs]
Y-Axis: THD(Ch5)/THD(Ch6)



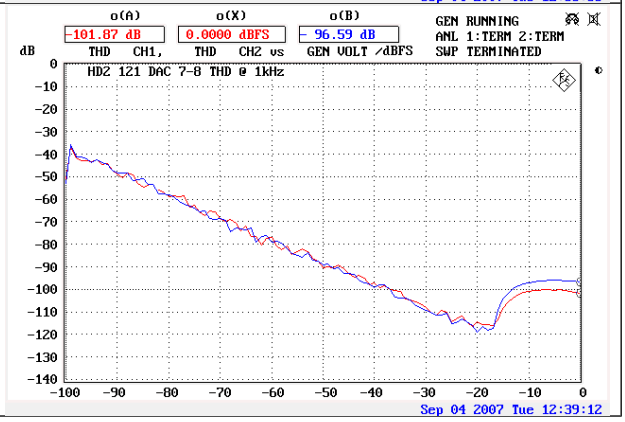
THD @ 1 kHz DAC 7/8

Signal-Input: digital AES/EBU
Input-Level: -100..0 dBfs

Signal-Output: analog Output 7/8

Sample Rate: 96 kHz

X-Axis: Input Level [dBfs]
Y-Axis: THD(Ch7)/THD(Ch8)



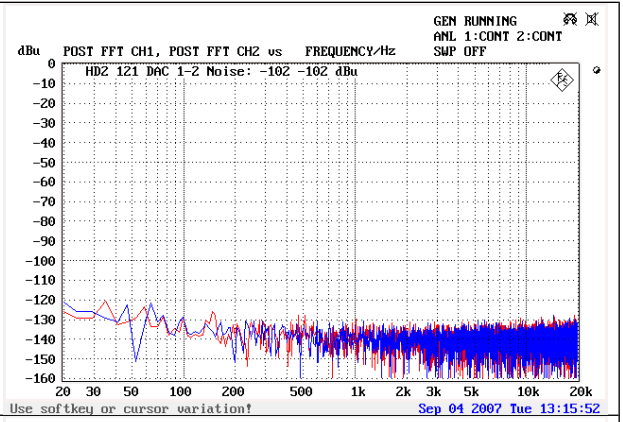
Noise DAC 1/2

Signal-Input: digital AES/EBU
Input-Level: -oo dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBu] (8k FFT)



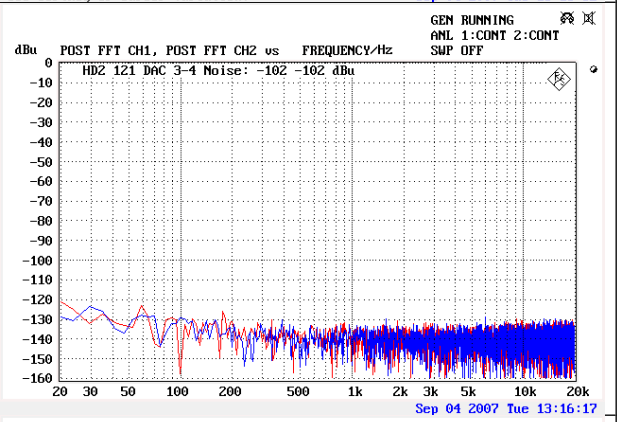
Noise DAC 3/4

Signal-Input: digital AES/EBU
Input-Level: -oo dBfs

Signal-Output: analog Output 3/4

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBu] (8k FFT)



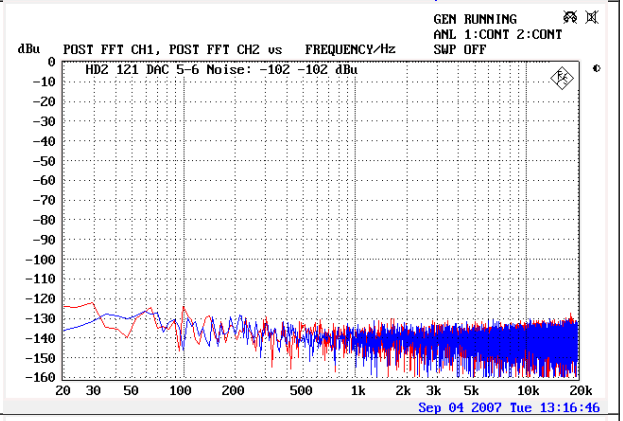
Noise DAC 5/6

Signal-Input: digital AES/EBU
Input-Level: -oo dBfs

Signal-Output: analog Output 5/6

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBu] (8k FFT)



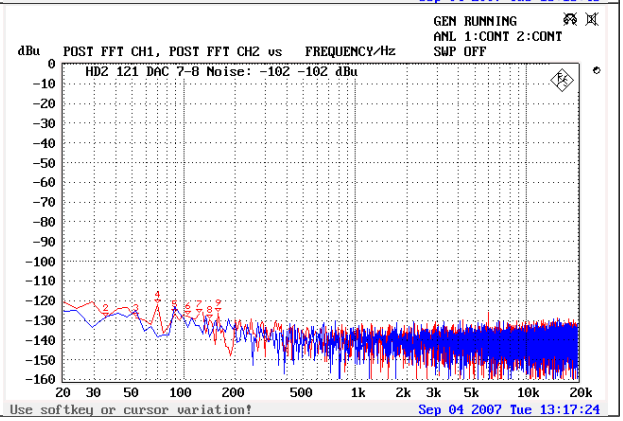
Noise DAC 7/8

Signal-Input: digital AES/EBU
Input-Level: -oo dBfs

Signal-Output: analog Output 7/8

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: Output Level [dBu] (8k FFT)



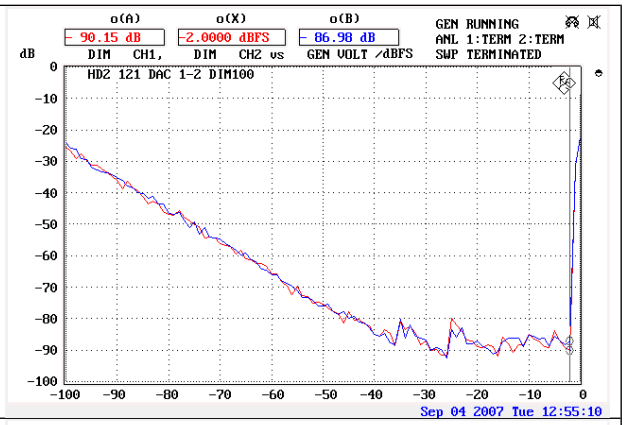
DIM100 DAC 1/2

Signal-Input: digital AES/EBU
Input-Level: -100..0 dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: DIM100 [dB]



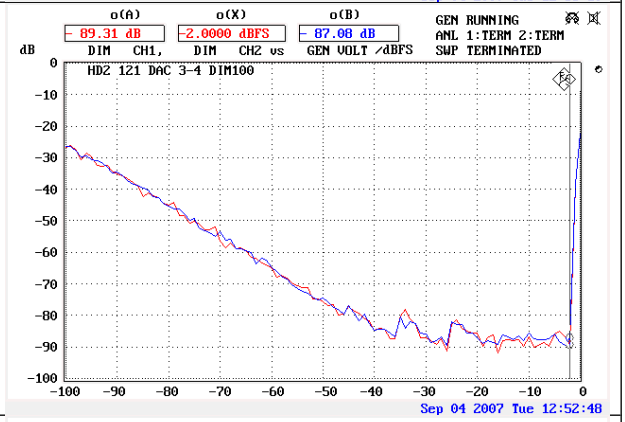
DIM100 DAC 3/4

Signal-Input: digital AES/EBU
Input-Level: -100..0 dBfs

Signal-Output: analog Output 3/4

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: DIM100 [dB]



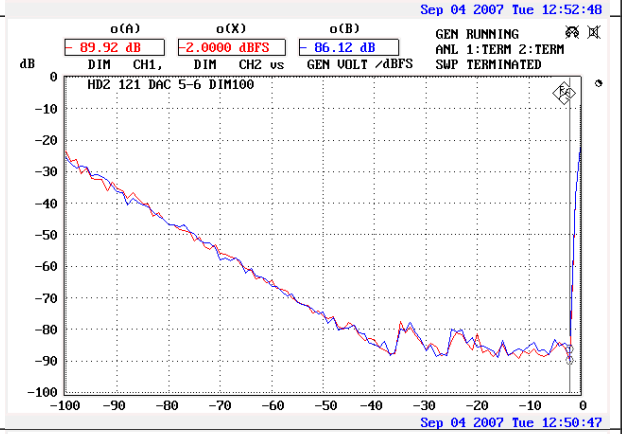
DIM100 DAC 5/6

Signal-Input: digital AES/EBU
Input-Level: -100..0 dBfs

Signal-Output: analog Output 5/6

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: DIM100 [dB]



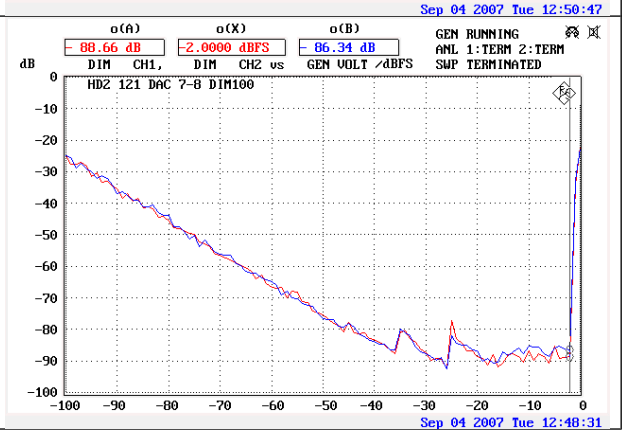
DIM100 DAC 7/8

Signal-Input: digital AES/EBU
Input-Level: -100..0 dBfs

Signal-Output: analog Output 7/8

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: DIM100 [dB]



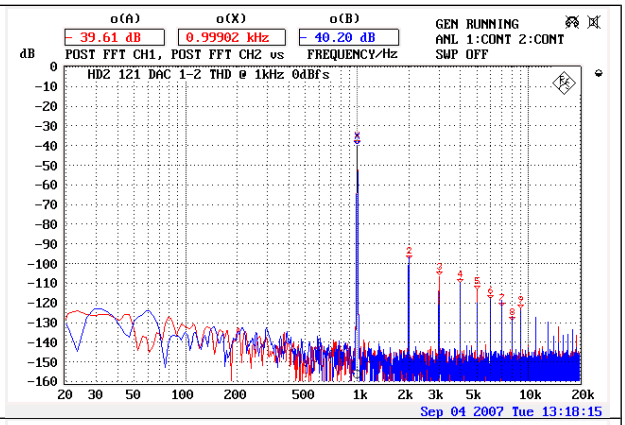
THD+N @ 1kHz: DAC 1/2

Signal-Input: digital AES/EBU
Input-Level: 0 dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: 8k FFT Spectrum [dB]



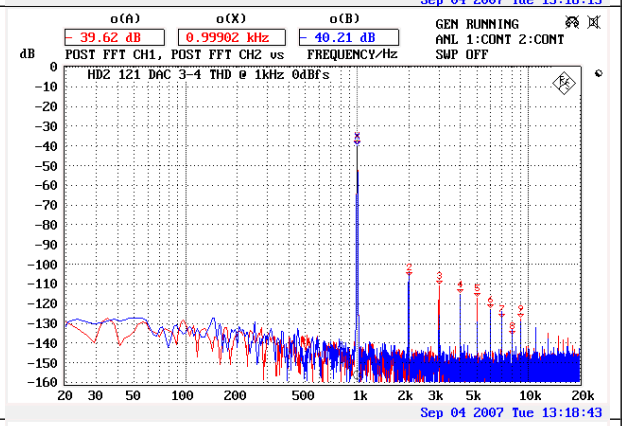
THD+N @ 1kHz: DAC 3/4

Signal-Input: digital AES/EBU
Input-Level: 0 dBfs

Signal-Output: analog Output 3/4

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: 8k FFT Spectrum [dB]



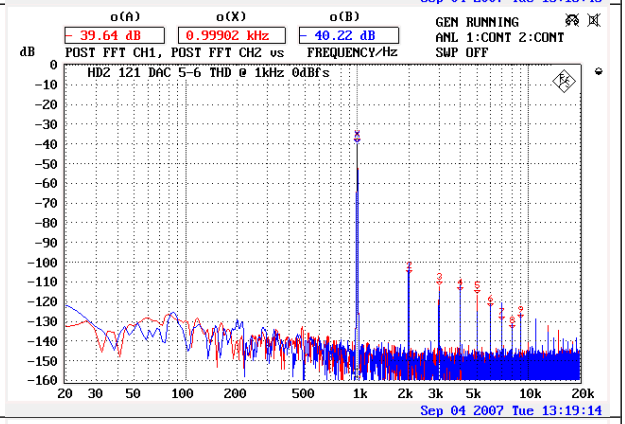
THD+N @ 1kHz: DAC 5/6

Signal-Input: digital AES/EBU
Input-Level: 0 dBfs

Signal-Output: analog Output 5/6

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: 8k FFT Spectrum [dB]



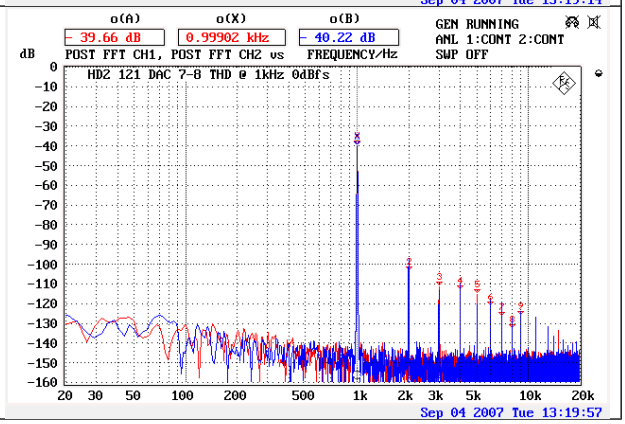
THD+N @ 1kHz: DAC 7/8

Signal-Input: digital AES/EBU
Input-Level: 0 dBfs

Signal-Output: analog Output 7/8

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: 8k FFT Spectrum [dB]



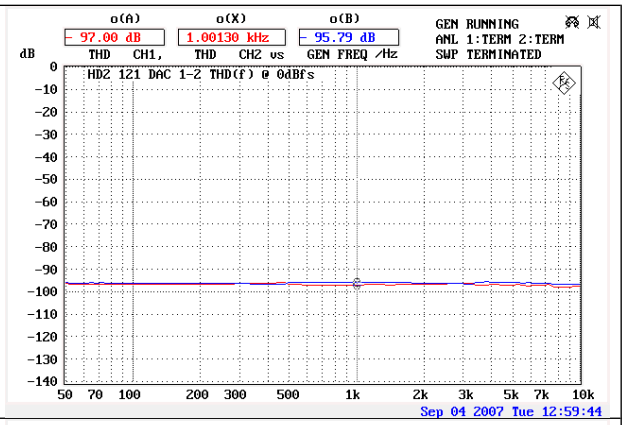
THD(f) DAC 1/2

Signal-Input: digital AES/EBU
Input-Level: 0 dBfs

Signal-Output: analog Output 1/2

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: THD [dB]



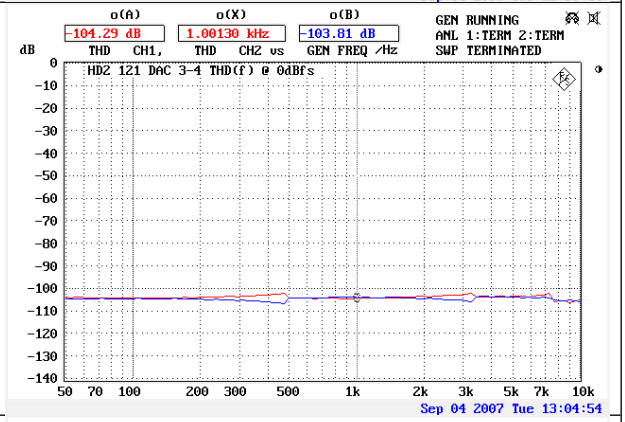
THD(f) DAC 3/4

Signal-Input: digital AES/EBU
Input-Level: 0 dBfs

Signal-Output: analog Output 3/4

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: THD [dB]



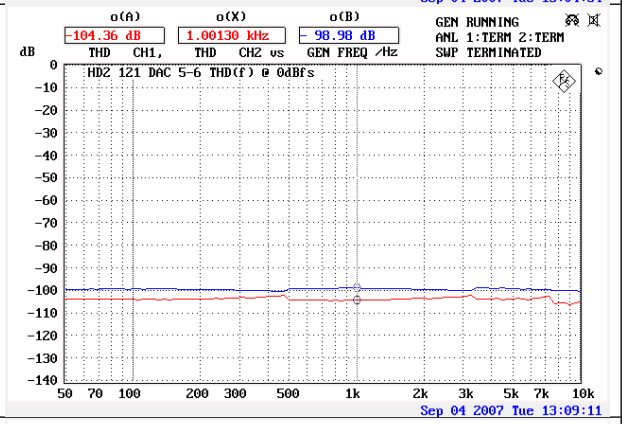
THD(f) DAC 5/6

Signal-Input: digital AES/EBU
Input-Level: 0 dBfs

Signal-Output: analog Output 5/6

Sample Rate: 96 kHz

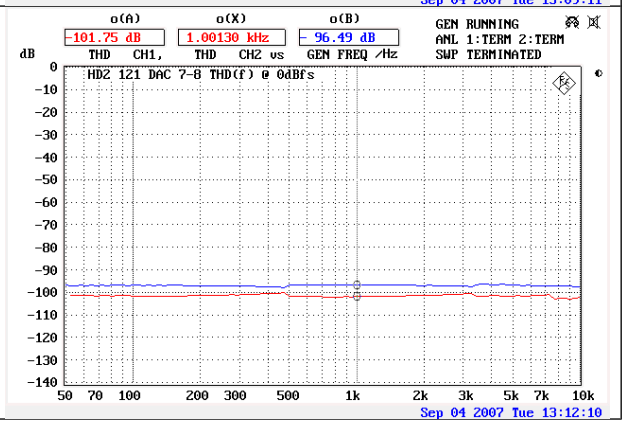
X-Axis: Frequency [Hz]
Y-Axis: THD [dB]



THD(f) DAC 7/8

Signal-Input: digital AES/EBU
Input-Level: 0 dBfs

Signal-Output: analog Output 7/8

Sample Rate: 96 kHz

X-Axis: Frequency [Hz]
Y-Axis: THD [dB]