

USB Measurement Microphone ATD5-T



Pre-Sequence Inputs:

ID: 520

Summary

Signal Path1

Signal Path Setup	✓ PASSED
Level and Gain	✓ PASSED
THD+N 10V	✓ PASSED
THD+N 125mV	✓ PASSED
THD+N 50mV	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio A	✓ PASSED
Signal to Noise Ratio Z	✓ PASSED
Noise (RMS)-A	✓ PASSED
Noise (RMS)-Z	✓ PASSED

Sequence Result:

Sequence Result: ✓ PASSED

Signal Path1 : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	1
Source Impedance:	20 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	ASIO
Input Bit Depth:	24
Input Bandwidth:	AC (<10 Hz) - Fs/2
Device Delay:	50,00 ms
Input EQ:	None
• References	
dBr G:	100,0 mVrms
dBm (Output Power):	600,0 ohm
W(watts) (Output Power):	8,000 ohm
Shared Frequency Reference:	1,00000 kHz
dBrA:	0,000 dBFS
dBrB:	0,000 dBFS
dBrA Offset:	0,000 dB
dBrB Offset:	0,000 dB
dB SPL1:	-8,405 dBFS
dB SPL2:	-47,441 dBFS
dB SPL1 Calibrator Level:	94,000 dB SPL
dB SPL2 Calibrator Level:	94,000 dB SPL
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3,300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal
Jitter:	Disabled
• Triggers	
Source:	Off
Input Logic Level:	3,300 V

Edge: Rising

Signal Path1 : Verify Connections

Waveform: Sine
Generator Level: 50,00 mVrms
Frequency: 1,00000 kHz

channel offset (07.08.2018 18:33:43.509)

Ch1 39,909 dB
Ch2 0,000 dB

channel offset Parameters

Reference: Ch2
Source: RMS Level

Signal Path1 : Level and Gain

Waveform: Sine
Generator Level: 50,00 mVrms
Frequency: 1,00000 kHz

RMS Level (07.08.2018 18:33:48.223)

Ch1 -8,405 dBFS
Ch2 -48,314 dBFS

RMS Level (07.08.2018 18:33:48.223)

Ch1 +94,000
dB SPL1
Ch2 +54,091
dB SPL1

Signal Path1 : THD+N 10V

Waveform: Sine
Generator Level: 10,00 Vrms
Frequency: 1,00000 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Measured Frequency

THD+N Ratio (07.08.2018 18:33:54.665)

Ch1 42,558049 %

Ch2 0,588071 %

THD Ratio (07.08.2018 18:33:54.665)

Ch1 40,880019 %

Ch2 0,588900 %

Signal Path1 : THD+N 125mV

Waveform: Sine
Generator Level: 125,0 mVrms
Frequency: 1,00000 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Measured Frequency

THD+N Ratio (07.08.2018 18:34:00.937)

Ch1 0,014693 %

Ch2 0,963609 %

THD Ratio (07.08.2018 18:34:00.937)

Ch1 0,006420 %

Ch2 0,026959 %

Signal Path1 : THD+N 50mV

Waveform: Sine
 Generator Level: 50,00 mVrms
 Frequency: 1,00000 kHz
 Weighting Filter: Signal Path
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (07.08.2018 18:34:07.198)

Ch1 0,027514 %
 Ch2 2,421542 %

THD+N Level (07.08.2018 18:34:07.198)

Ch1 -79,614 dBFS
 Ch2 -80,633 dBFS

THD Ratio (07.08.2018 18:34:07.198)

Ch1 0,002159 %
 Ch2 0,072694 %

THD Level (07.08.2018 18:34:07.198)

Ch1 -101,719 dBFS
 Ch2 -111,084 dBFS

Noise Ratio (07.08.2018 18:34:07.198)

Ch1 0,027123 %
 Ch2 2,414553 %

Noise Level (07.08.2018 18:34:07.198)

Ch1 -79,738 dBFS
 Ch2 -80,657 dBFS

Distortion Product Ratio (07.08.2018 18:34:07.198)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1,000k	2,000k	3,000k	4,000k	5,001k	6,001k	7,001k	8,001k	9,001k	10,00k
Ch1	-0,00	-94,51	-109,61	-112,65	-112,43	-113,56	-112,15	-110,22	-113,00	-113,33
	1,000k	2,000k	3,000k	4,000k	5,001k	6,001k	7,001k	8,001k	9,001k	10,00k
Ch2	-0,00	-74,94	-81,11	-71,73	-79,93	-74,22	-80,26	-75,74	-73,22	-78,31

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

Distortion Product Level (07.08.2018 18:34:07.198)

USB Measurement Microphone ATD5-T



Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1,000k	2,000k	3,000k	4,000k	5,001k	6,001k	7,001k	8,001k	9,001k	10,00k
Ch1	-8,405	-102,916	-118,020	-121,053	-120,839	-121,964	-120,560	-118,627	-121,404	-121,735
	1,000k	2,000k	3,000k	4,000k	5,001k	6,001k	7,001k	8,001k	9,001k	10,00k
Ch2	-48,316	-123,254	-129,427	-120,048	-128,239	-122,534	-128,569	-124,049	-121,532	-126,624

Distortion Product Level Parameters

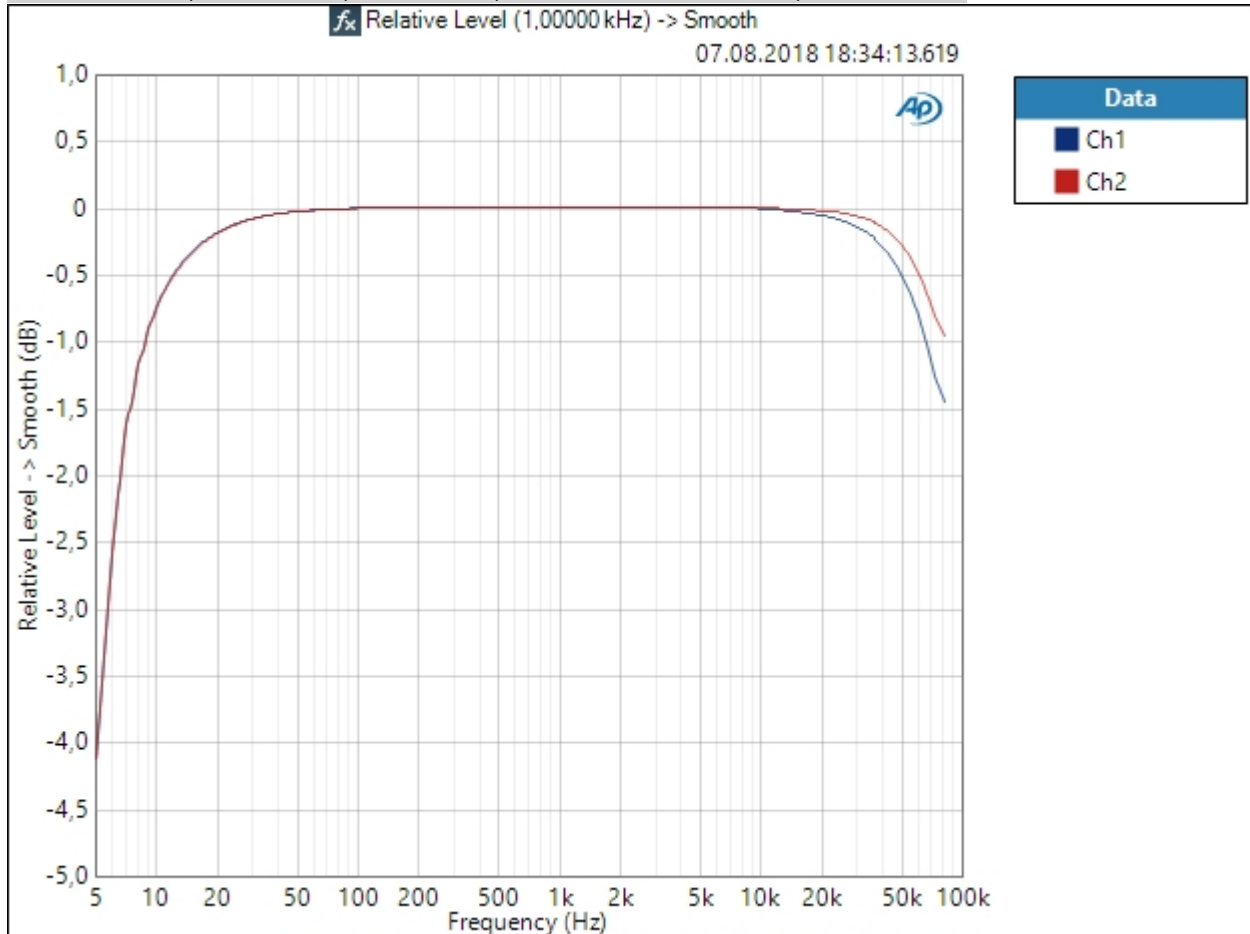
Frequency Unit: Hz

Level Unit: dBFS

Signal Path1 : Frequency Response

Generator Level: 50,00 mVrms
 DC Offset: 0,000 V
 EQ: None
 Start Frequency: 1,00000 Hz
 Stop Frequency: 80,0000 kHz
 Sweep: 2,000 s
 Pre-Sweep: 0,000 s
 Extend Acquisition By: 0,000 s
 Secondary Source: None
 Measured 1 07.08.2018 18:34:13

Relative Level (1,00000 kHz) -> Smooth (07.08.2018 18:34:13.619)



Relative Level (1,00000 kHz) -> Smooth Parameters

Smoothing: 1/3 octave

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Source: Relative Level (1,00000 kHz)
Mode: Normalized at Reference
Ref Frequency: 1,00000 kHz

Result: PASSED

Deviation (20,0000 Hz - 20,0000 kHz) (07.08.2018 18:34:13.619)

Channel	Lower Limit	Value	Upper Limit	
Ch1	---- dB	±0,095 dB	±0,201 dB	
Ch2	---- dB	±0,133 dB	±0,201 dB	

Deviation (20,0000 Hz - 20,0000 kHz) Parameters

Min: 20,0000 Hz
Max: 20,0000 kHz

Result: PASSED

Signal Path1 : Signal to Noise Ratio A

Waveform: Sine
Generator Level: 50,00 mVrms
Frequency: 1,00000 kHz
Weighting Filter: A-wt.

Signal to Noise Ratio (07.08.2018 18:34:21.193)

Ch1 84,832 dB
Ch2 49,118 dB

Signal Path1 : Signal to Noise Ratio Z

Waveform: Sine
Generator Level: 50,00 mVrms
Frequency: 1,00000 kHz
Weighting Filter: Signal Path

Signal to Noise Ratio (07.08.2018 18:34:27.446)

Ch1 71,430 dB
Ch2 32,391 dB

Signal Path1 : Noise (RMS)-A

Waveform: None
Weighting Filter: A-wt.
Acquisition Time: 250,0 ms
Delay Time: 300,0 ms

Noise Level (07.08.2018 18:34:29.804)

Ch1 +8,955
dB SPL1
Ch2 +4,999
dB SPL1

Signal Path1 : Noise (RMS)-Z

Waveform: None
Weighting Filter: Signal Path
Acquisition Time: 250,0 ms
Delay Time: 300,0 ms

Noise Level (07.08.2018 18:34:31.918)

Ch1 +22,816
dB SPL1
Ch2 +21,753
dB SPL1