Starkrimson Stereo Ultra Test Report

Summary

Signal Path1	
Signal Path Setup	PASSED
Frequency Response	PASSED
Stepped Level Sweep	PASSED
Stepped Frequency Sweep	PASSED
IMD Level Sweep (SMPTE)	PASSED
Crosstalk Sweep, One Channel Undriven	PASSED
Signal Path 2	
Signal Analyzer	PASSED
Signal Path 3	
Multitone Analyzer	PASSED
Signal Path 4	
Continuous Sweep	PASSED

Sequence Result:	
Sequence Result:	PASSED

Signal Path1 : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
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:	44.72 Vrms
dBrB:	44.72 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dBSPL1:	10.00 mVrms
dBSPL2:	10.00 mVrms
dBSPL1 Calibrator Level:	94.000 dBSPL
dBSPL2 Calibrator Level:	94.000 dBSPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• DCX

DCX is not detected.

Signal Path1 : Verify Connections

Waveform:	Sine
Generator Level:	1.000 Vrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz

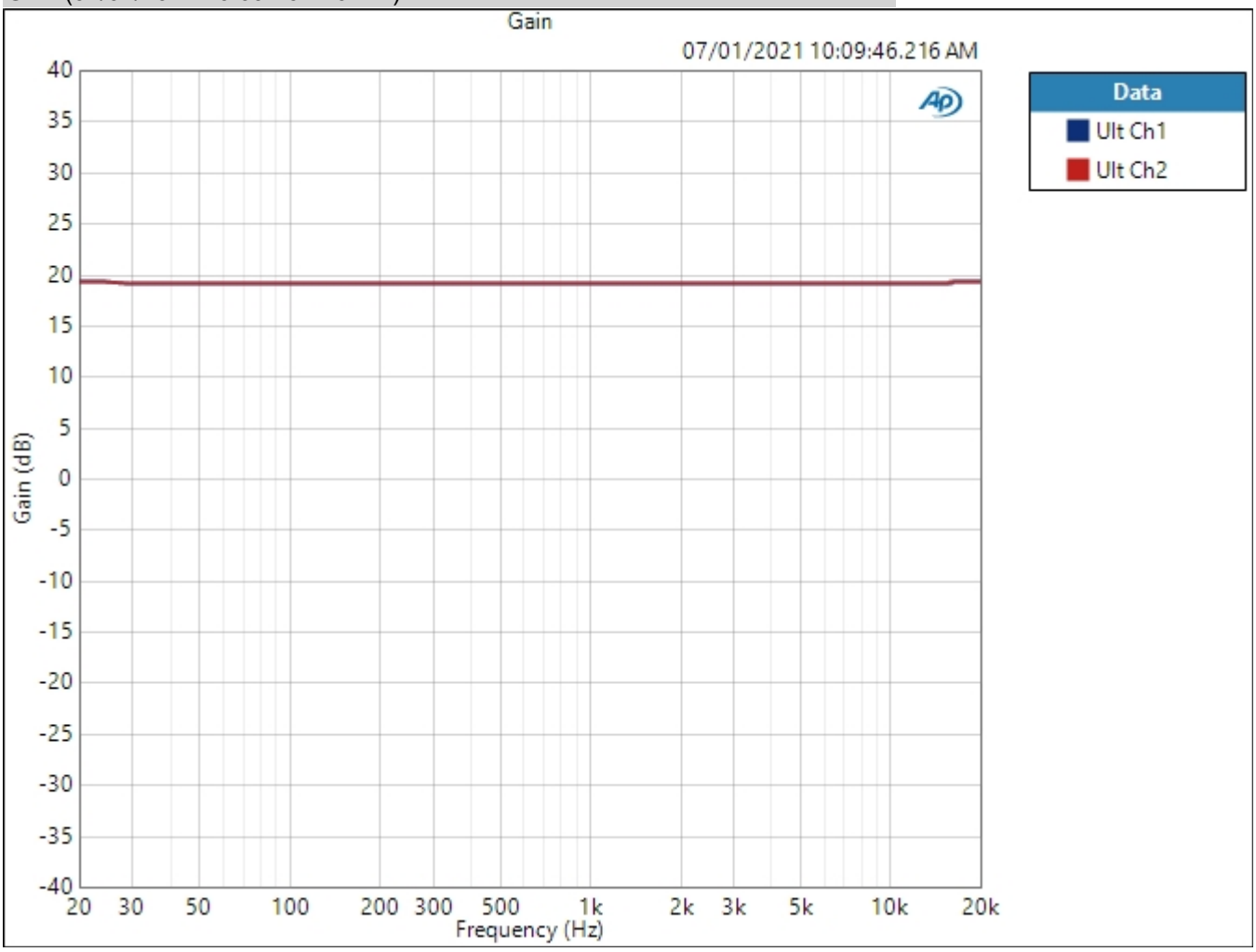
Gain (07/01/2021 10:09:43.886 AM)

Ult Ch1 19.061 dB
Ult Ch2 19.065 dB

Signal Path1 : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	1.000 Vrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	0.000 s
Sweep:	350.0 ms
Extend Acquisition By:	50.00 ms
Secondary Source:	None
Measured 1	07/01/2021 10:09:46 AM

Gain (07/01/2021 10:09:46.216 AM)

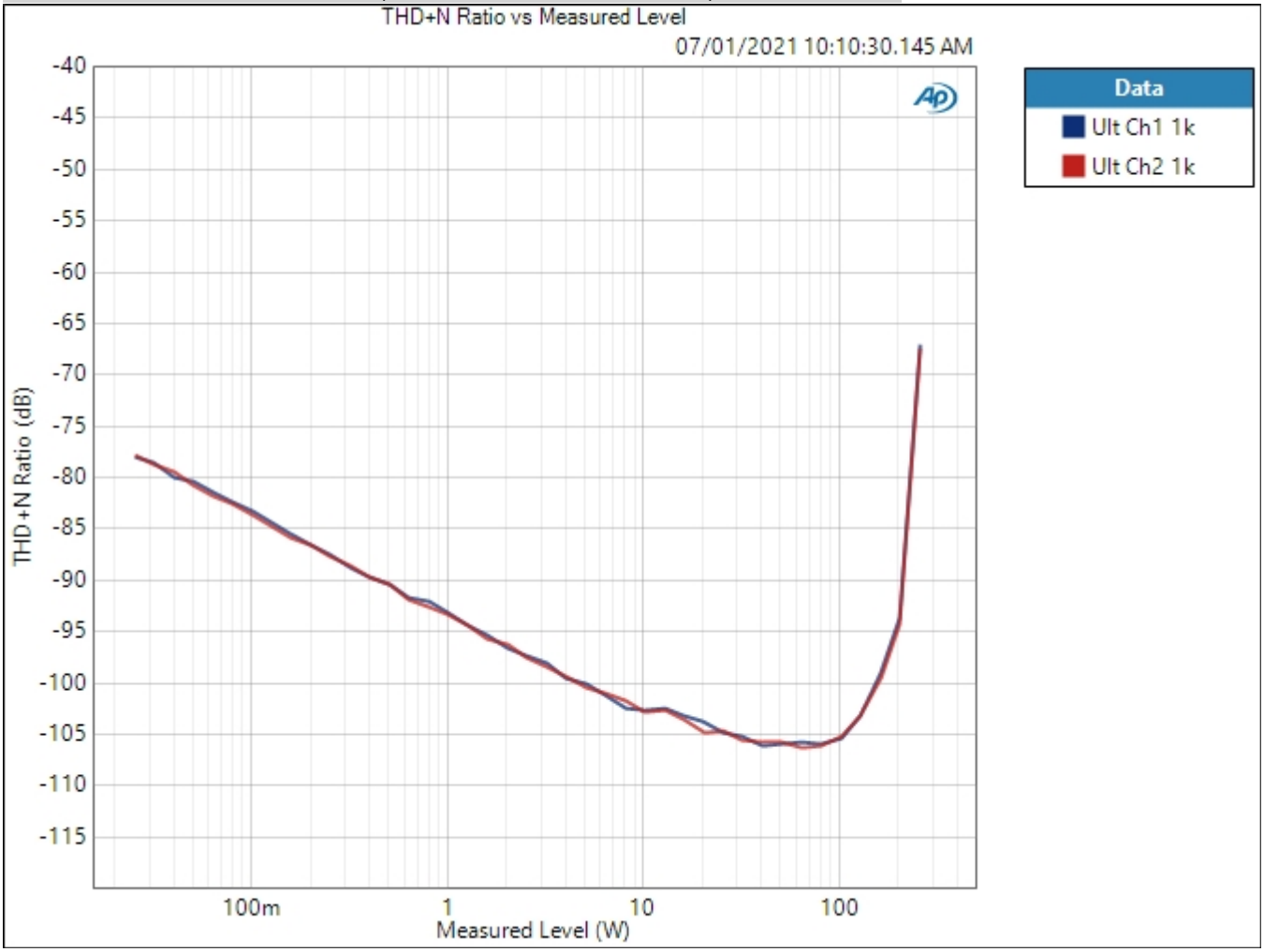


Result: PASSED

Signal Path1 : Stepped Level Sweep

Waveform:	Sine
Generator Level:	0.000 Vrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Start Level:	50.00 mVrms
Stop Level:	5.000 Vrms
Step Type:	Logarithmic
Number of Points:	41
Offset:	0.000 V
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	07/01/2021 10:10:30 AM

THD+N Ratio vs Measured Level (07/01/2021 10:10:30.145 AM)

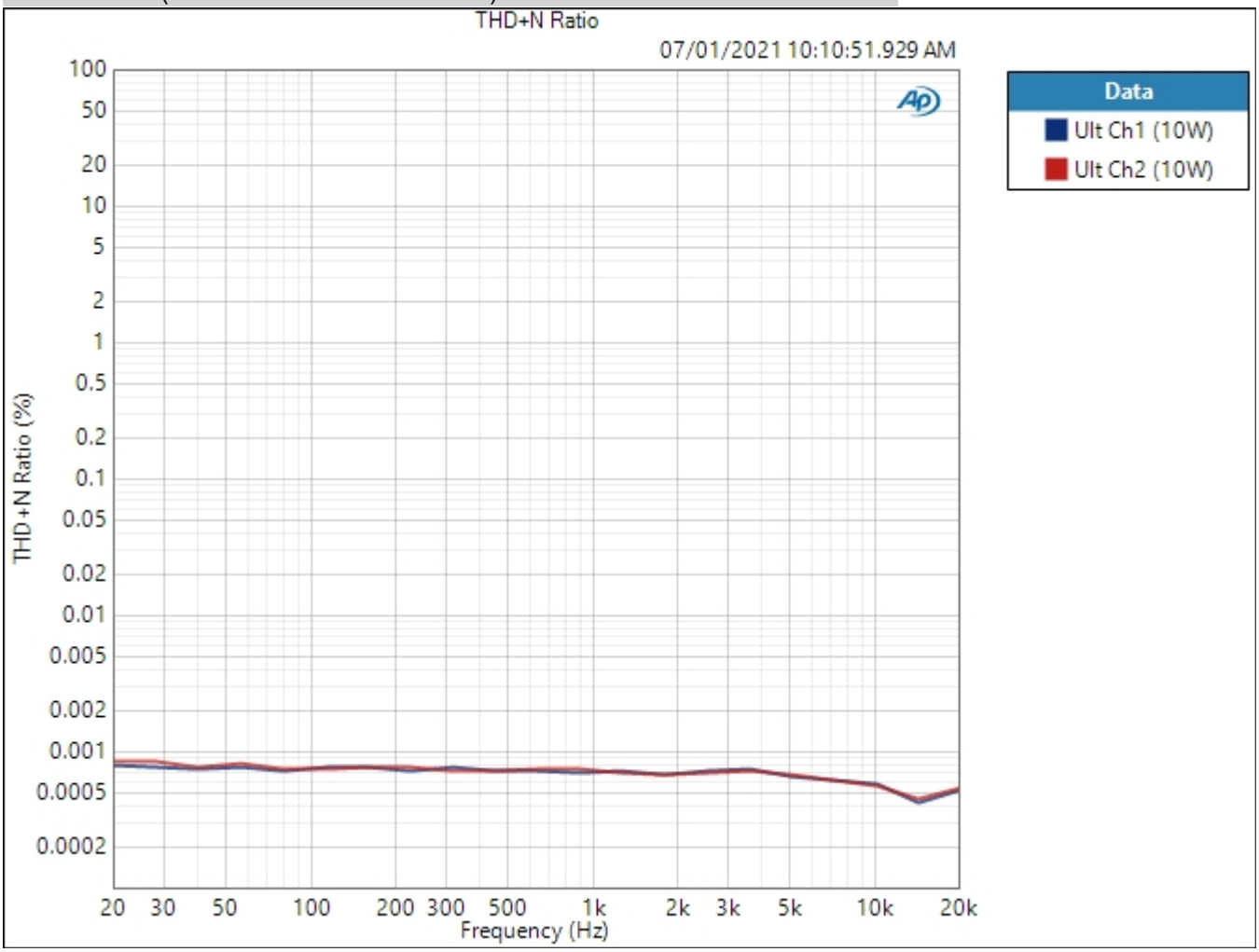


Result: PASSED

Signal Path1 : Stepped Frequency Sweep

Generator Level:	1.000 Vrms
DC Offset:	0.000 V
EQ:	None
Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Step Type:	Logarithmic
Number of Points:	21
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Phase Ref Channel:	Ch1
Measured 1	07/01/2021 10:10:51 AM

THD+N Ratio (07/01/2021 10:10:51.929 AM)

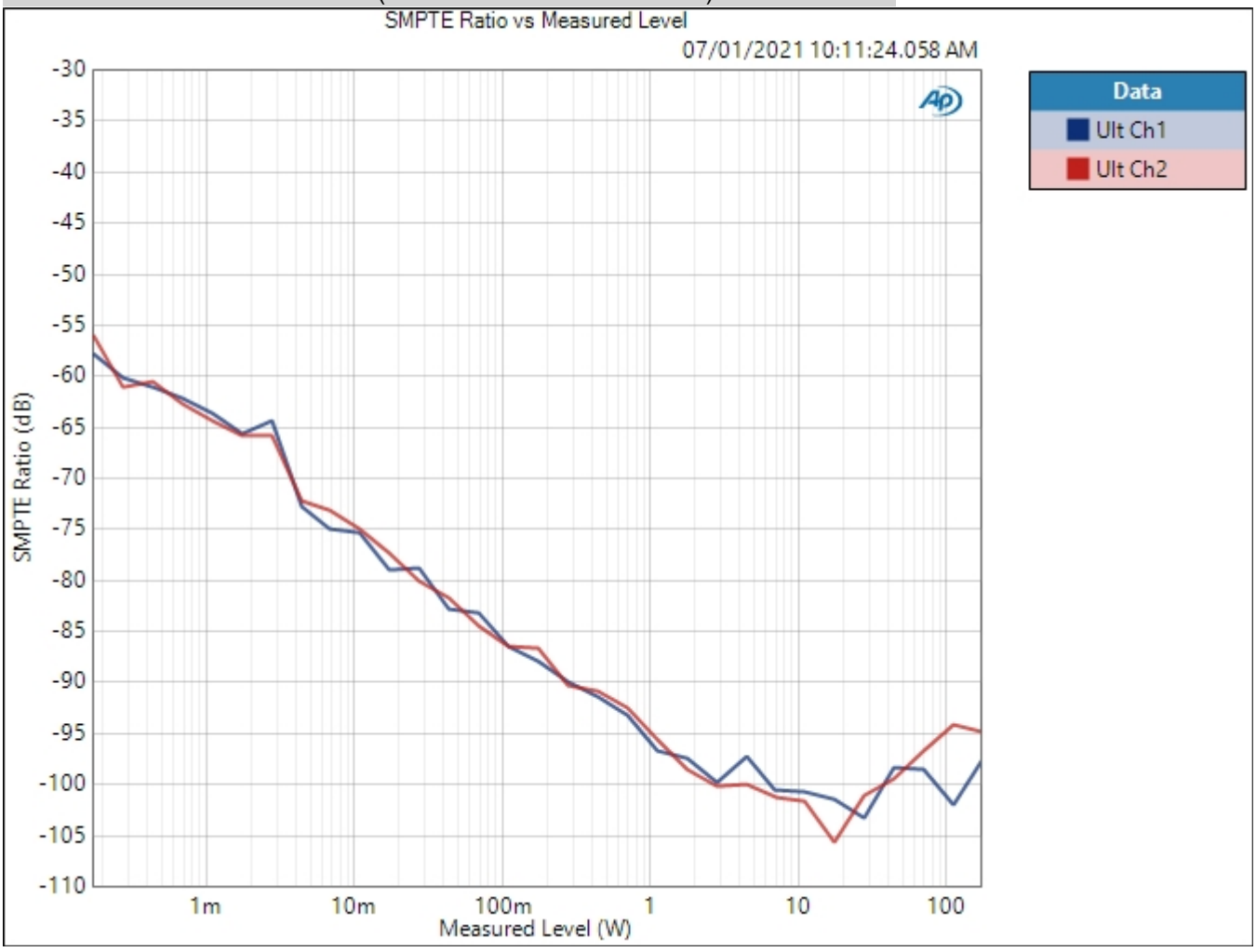


Result: PASSED

Signal Path1 : IMD Level Sweep (SMPTE)

IMD Type:	SMPTE
Waveform:	IMD
Generator Level:	5.000 Vrms
DC Offset:	0.000 V
Frequency 1:	60.0000 Hz
Frequency 2:	7.00000 kHz
Frequency Ratio:	4:1
IMD Split:	False
Start Level:	5.000 mVrms
Stop Level:	5.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Measured 1	07/01/2021 10:11:24 AM

SMPTE Ratio vs Measured Level (07/01/2021 10:11:24.058 AM)

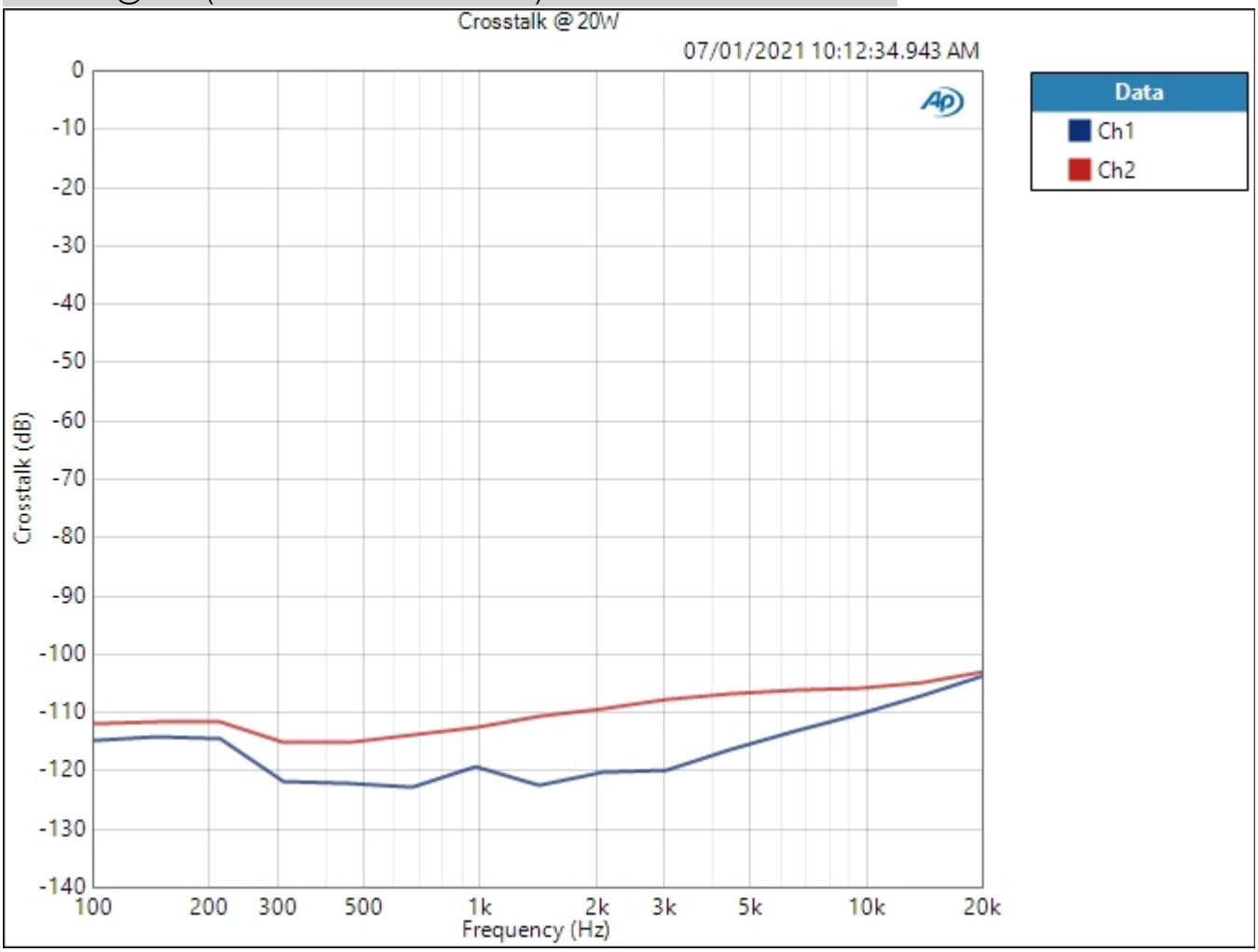


Result: PASSED

Signal Path1 : Crosstalk Sweep, One Channel Undriven

Generator Level:	1.414 Vrms
DC Offset:	0.000 V
Start Frequency:	100.000 Hz
Stop Frequency:	20.0000 kHz
Step Type:	Logarithmic
Number of Points:	15
Measured 1	07/01/2021 10:12:34 AM

Crosstalk @ 20W (07/01/2021 10:12:34.943 AM)

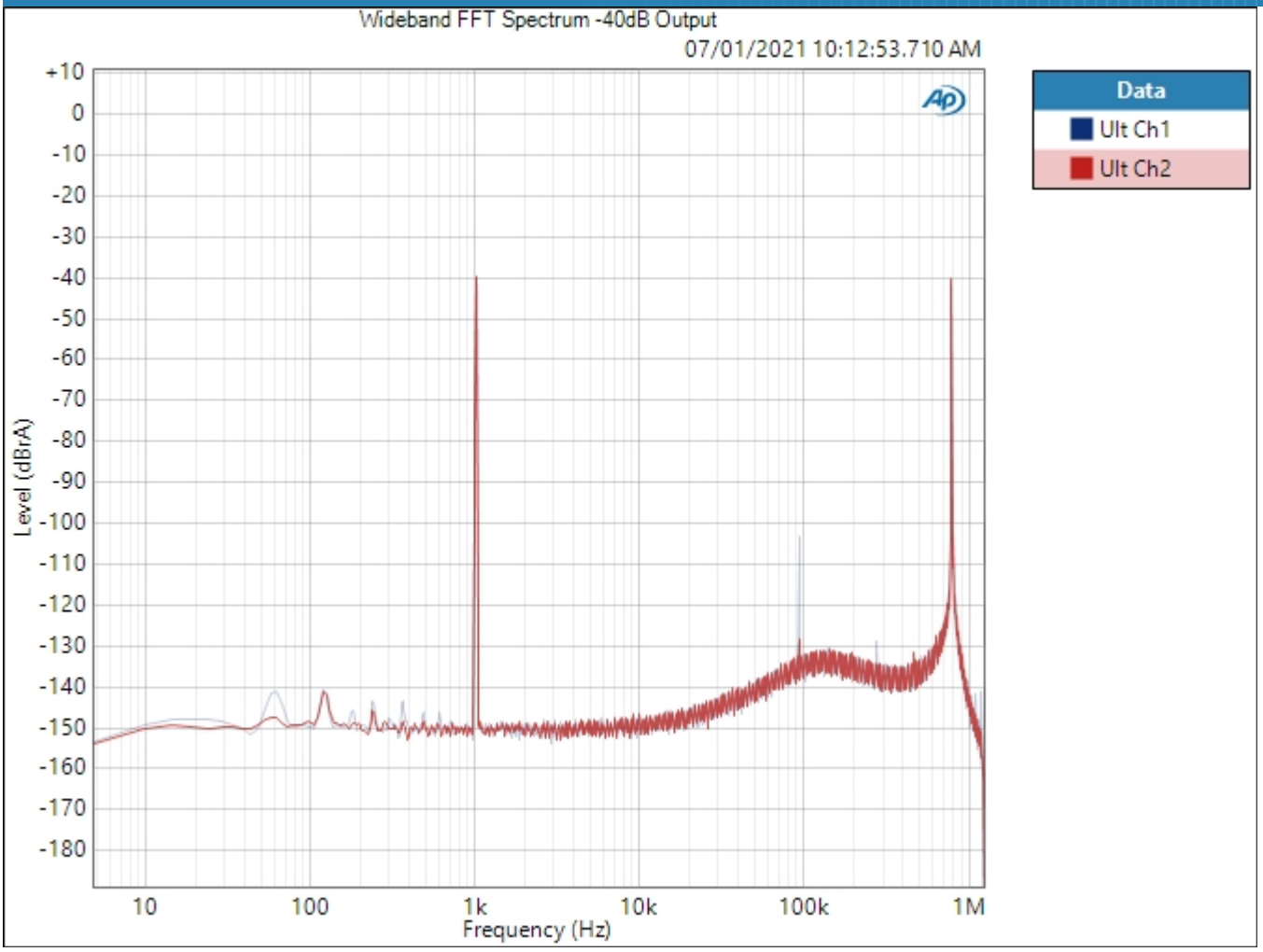


Result: PASSED

Signal Path 2 : Signal Analyzer

Waveform:	Sine
Generator Level:	50.00 mVrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	07/01/2021 10:12:53 AM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	512K
Averaging:	Power
Averages:	25
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Wideband FFT Spectrum -40dB Output (07/01/2021 10:12:53.710 AM)

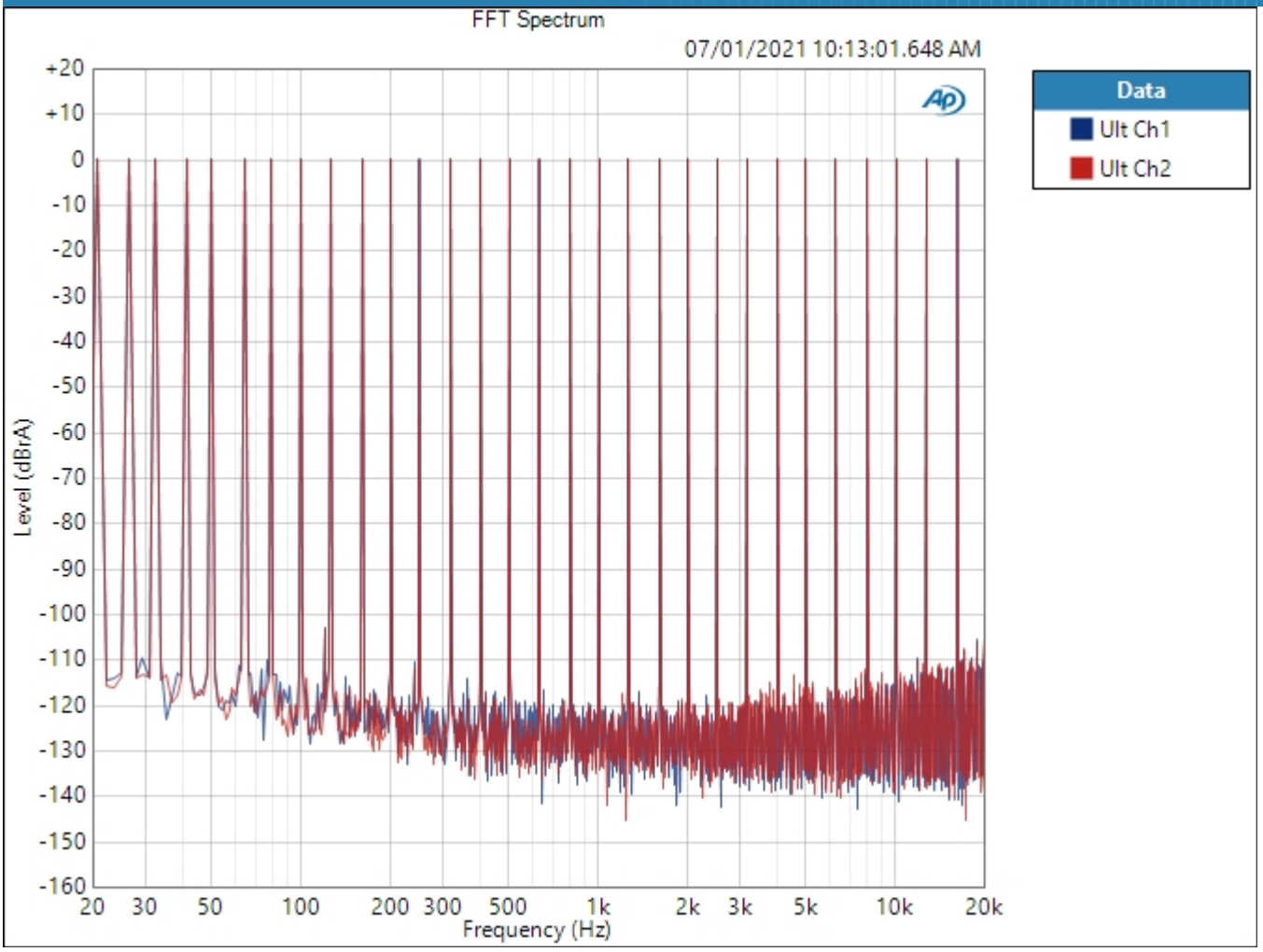


Result: PASSED

Signal Path 3 : Multitone Analyzer

Generator Level:	4.500 Vrms
DC Offset:	0.000 V
Name:	APx 32-tone
Sample Rate:	192.000 kHz
Length:	65536
Min Frequency:	14.6484 Hz
Max Frequency:	20.0010 kHz
Step Type:	Custom
Tones:	32
Crest Factor:	4.481 x/y / 13.028 dB
TD+N Filter:	Signal Path
Averages:	3
Phase Ref Channel:	Ch1
Trigger:	Free Run
Trigger Delay:	1.000 s
Frequency Correction:	Disabled
Skirt Width:	1.00 %
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)
Measured 1	07/01/2021 10:13:01 AM

FFT Spectrum (07/01/2021 10:13:01.648 AM)

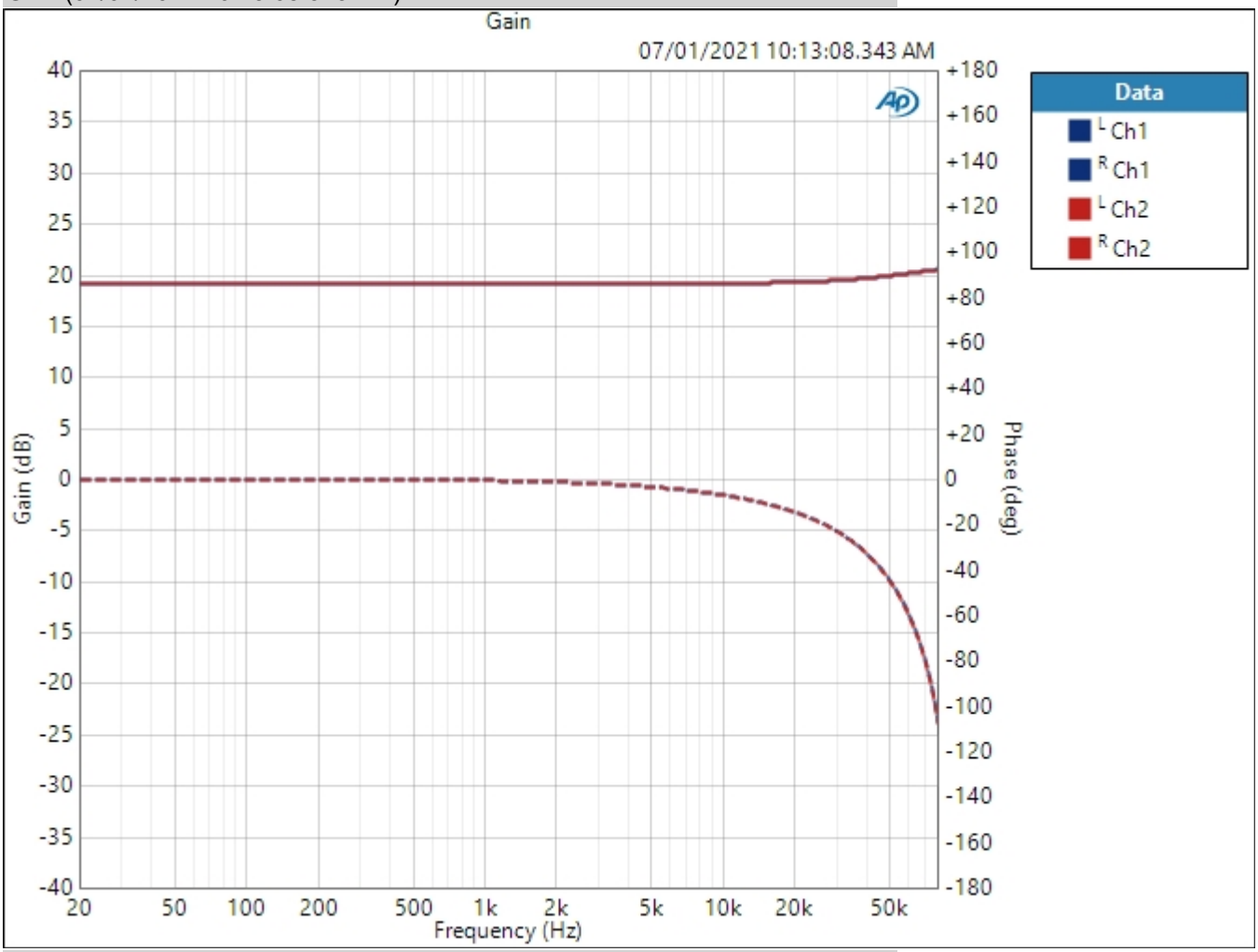


Result: PASSED

Signal Path 4 : Continuous Sweep

Start Frequency:	20.0000 Hz
Stop Frequency:	80.0000 kHz
Generator Level:	1.000 Vrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	250.0 ms
Sweep:	1.000 s
Measured 1	07/01/2021 10:13:08 AM
Extend Acquisition By:	300.0 ms
Crosstalk Type:	High speed
Secondary Source:	None

Gain (07/01/2021 10:13:08.343 AM)



Gain Parameters

Result Failure Condition: Left Or Right

Result: PASSED