Sequence Report

Pre-Sequence Inputs:

ID: Ferrum WANDLA

Summary

SIG 1 - Scope Views (44.1khz)	
1khz Tone View	PASSED
15khz Tone View	PASSED
-90.31dBFS 1khz 16 bit undithered sine (96khz Bandwidth)	PASSED
-90.31dBFS 1khz 16 bit dithered sine (96khz Bandwidth)	PASSED
-90.31dBFS 1khz 24 bit undithered sine (96khz Bandwidth)	PASSED
-90.31dBFS 1khz 24 bit dithered sine (96khz Bandwidth)	PASSED
Filter Ultrasonic Attenuation	PASSED
20hz-90khz Noise RMS Level	PASSED
SIG 1.5 - Scope Views (44.1khz)	
1khz Tone View	PASSED
15khz Tone View	PASSED
-90.31dBFS 1khz undithered 16b sine (1Mhz bandwidth)	PASSED
-90.31dBFS 1khz dithered 16b sine (1Mhz bandwidth)	PASSED
-90.31dBFS 1khz undithered 24b sine (1Mhz bandwidth)	PASSED
-90.31dBFS 1khz dithered 24b sine (1Mhz bandwidth)	PASSED
Filter Ultrasonic Attenuation	PASSED
1Mhz RMS Noise Level	PASSED
SIG 2 - Main Measurements (44.1khz)	
Output Level (Vrms)	PASSED
Frequency Response (Audible Band)	PASSED
20hz-20khz Noise RMS Level	PASSED
Idle Noise FFT	PASSED
1khz FFT (0dbfs)	PASSED
1khz FFT (-3dbfs)	PASSED
50khz FFT (0dbfs)	PASSED
50hz FFT (-3dbfs)	PASSED
Effective Number of Bits 0dbfs	PASSED
Effective Number of Bits -3dbfs	PASSED
THD+N 0dbfs	PASSED
THD+N -3dbfs	PASSED

THD+N/Frequency	PASSED
Dynamic Range - AES17	PASSED
Signal to Noise Ratio	PASSED
IMD (SMPTE)	PASSED
50hz/7khz IMD SMPTE FFT	PASSED
IMD Level Sweep (SMPTE)	PASSED
Linearity	PASSED
Linearity (No Bandpass)	PASSED
Crosstalk Sweep, One Channel Driven	PASSED
DC Offset (active)	PASSED
DC Offset (idle)	PASSED
SIG 3 - 44.1khz Jitter	
44.1khz J-Test (Jitter)	PASSED
SIG 4 - 48khz Jitter	
48khz J-Test (Jitter)	PASSED
SIG 5 - Bandwidth (192khz)	
90khz Bandwidth	PASSED
SIG 6 - THD and Phase vs Frequency	
THD+N vs frequency (AES 40khz filter)	PASSED
Interchannel Phase and Group Delay	PASSED
SIG 7 - Wideband and Intersample Overs	
Wideband idle noise	PASSED
1khz 0dbfs wideband	PASSED
1khz -3dbfs wideband	PASSED
Intersample Overs (+3dB)	PASSED
Intersample Overs (+1dB)	PASSED
SIG 8 - Multitone	
32 Tone Test	PASSED

Sequence Result:

Sequence Result: PASSED

Sequence Report

SIG 1 - Scope Views (44.1khz) : Signal Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Disabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	10.03 Vrms
dBrB:	10.03 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	10.03 Vrms
dBSPL2:	10.03 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL

dBSPL2 Calibrator Level:	50.000 dBSPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

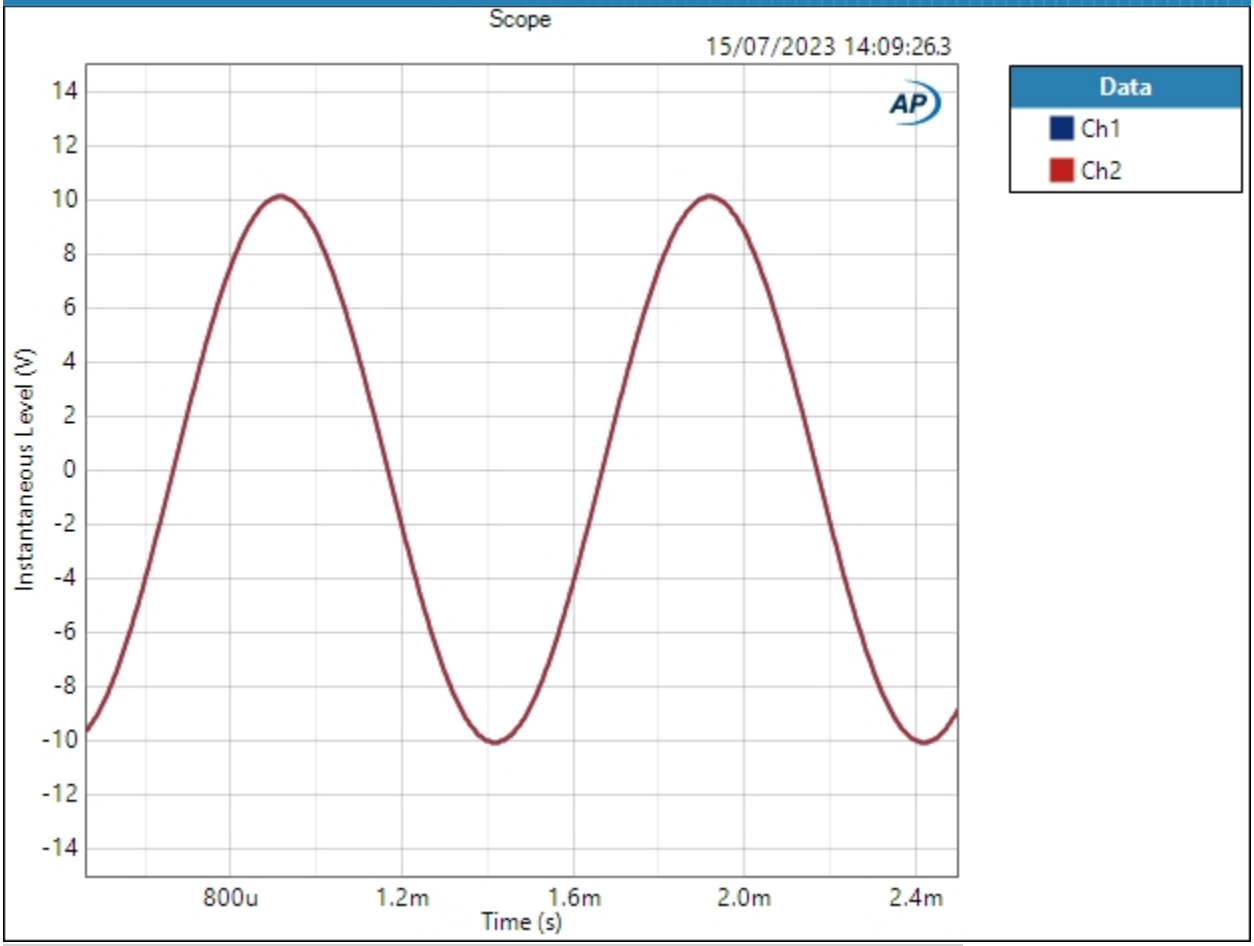
Sequence Report

SIG 1 - Scope Views (44.1khz) : 1khz Tone View

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:09:26
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:09:26.383)

Sequence Report



Scope Parameters

Interpolated: On

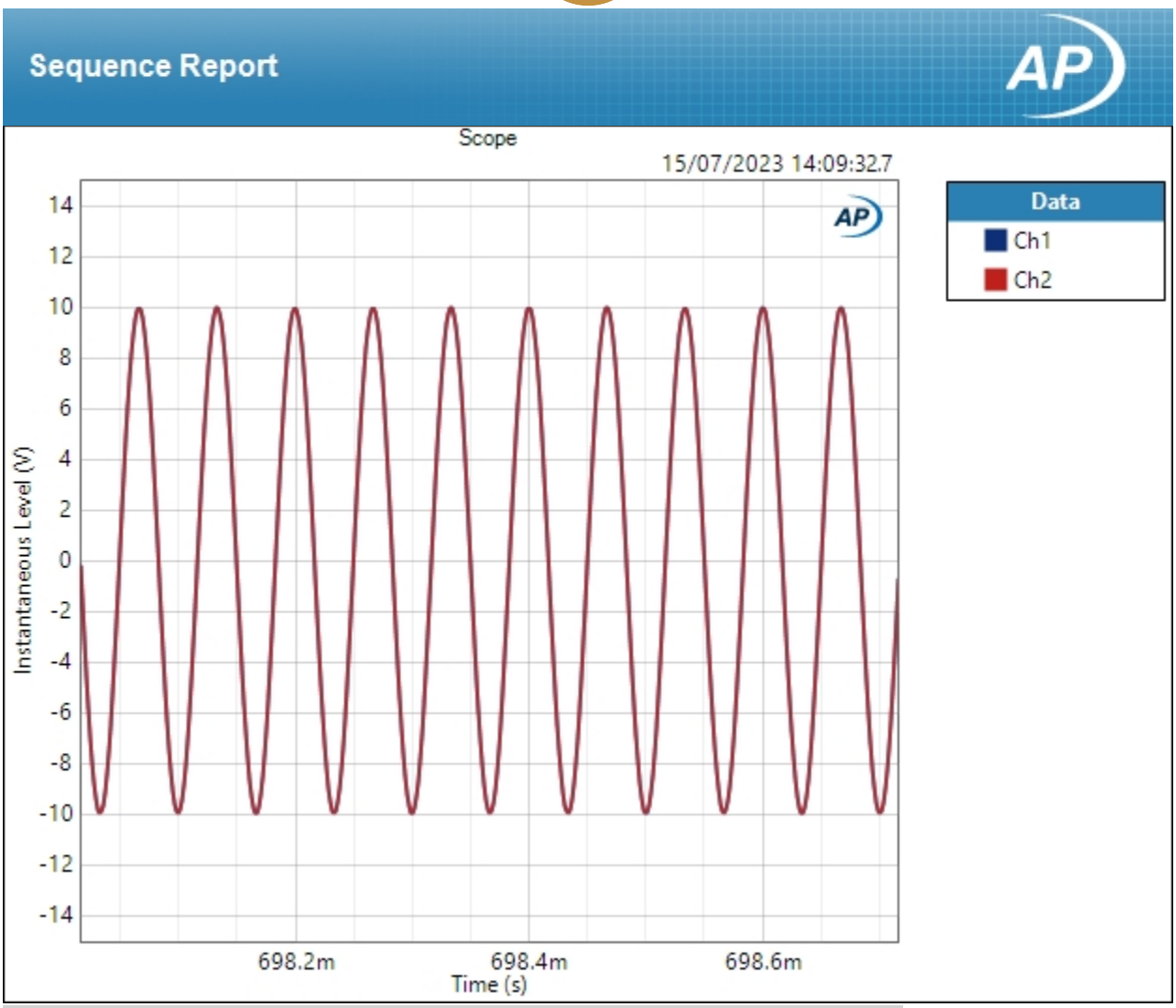
Result: PASSED

Sequence Report

SIG 1 - Scope Views (44.1khz) : 15khz Tone View

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	15.0000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:09:32
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:09:32.752)



Scope Parameters

Interpolated: On

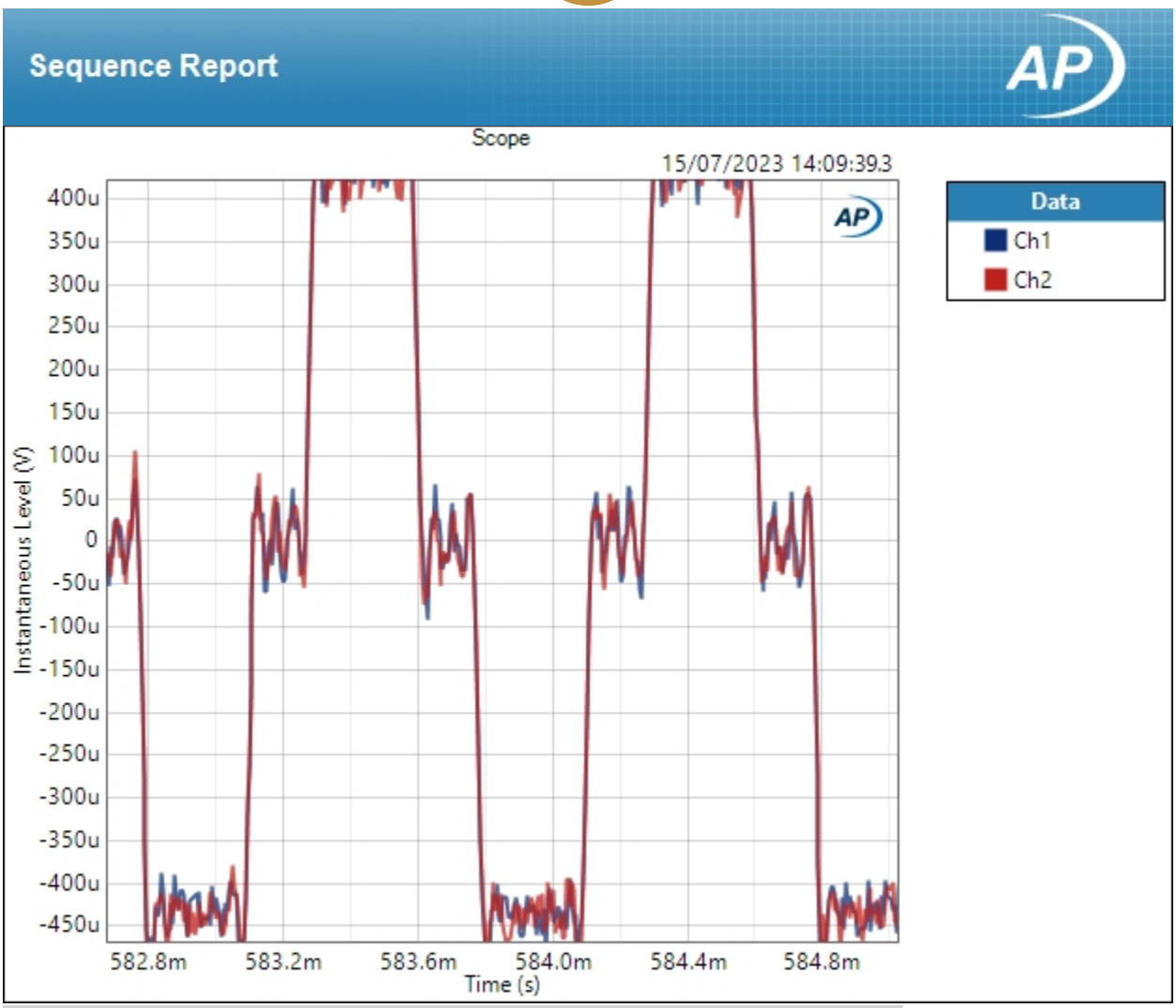
Result: PASSED

Sequence Report

SIG 1 - Scope Views (44.1khz) : -90.31dBFS 1khz 16 bit undithered sine (96khz Bandwidth)

Waveform:	1khz -90.31dB undithered 16b sine.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:09:39
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:09:39.333)



Scope Parameters

Interpolated: On

Result: PASSED

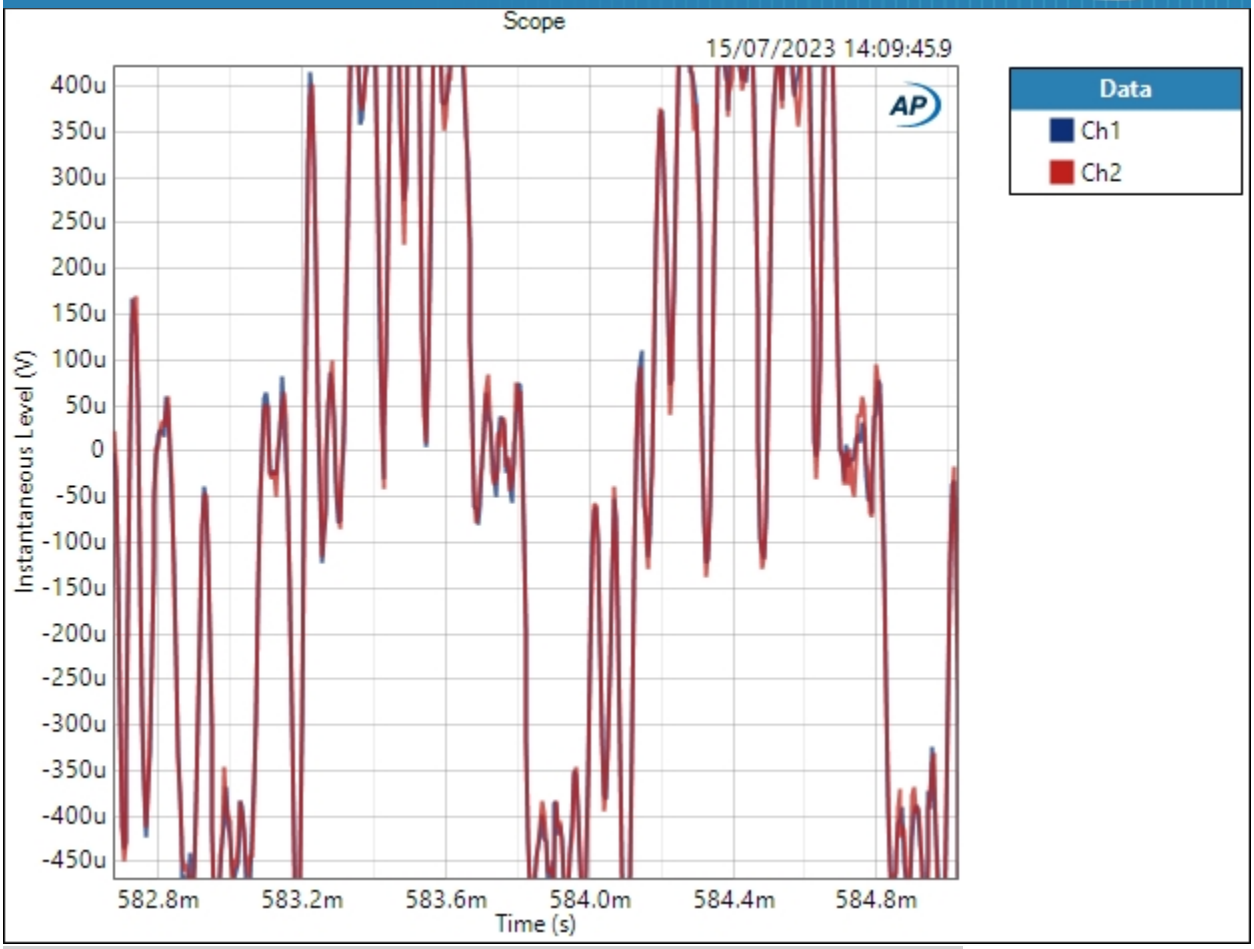
Sequence Report

SIG 1 - Scope Views (44.1khz) : -90.31dBFS 1khz 16 bit dithered sine (96khz Bandwidth)

Waveform:	1khz -90.31dB dithered 16b sine.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:09:45
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:09:45.909)

Sequence Report



Scope Parameters

Interpolated: On

Result: PASSED

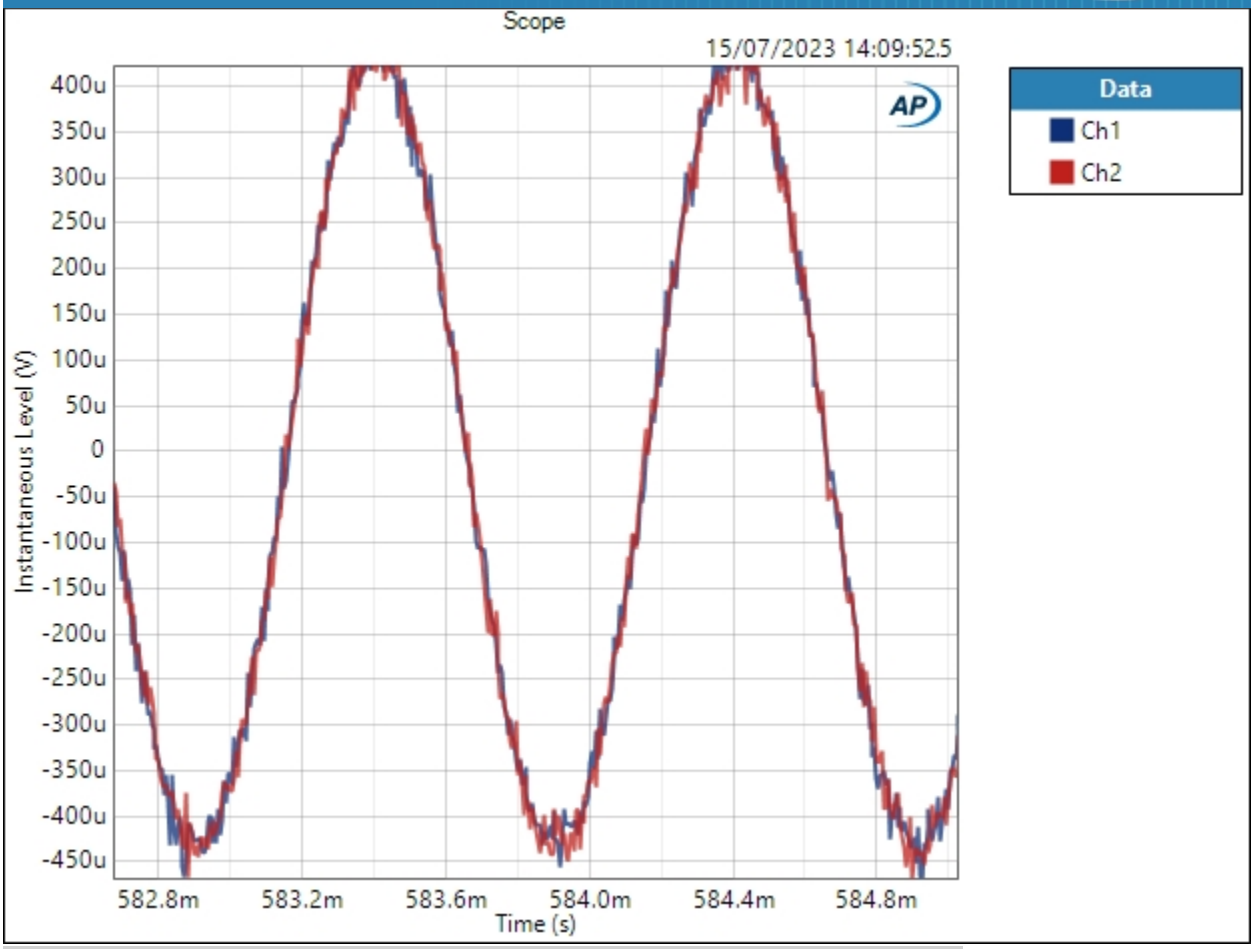
Sequence Report

SIG 1 - Scope Views (44.1khz) : -90.31dBFS 1khz 24 bit undithered sine (96khz Bandwidth)

Waveform:	1khz -90.31dB undithered 24b sine.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:09:52
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:09:52.508)

Sequence Report



Scope Parameters

Interpolated: On

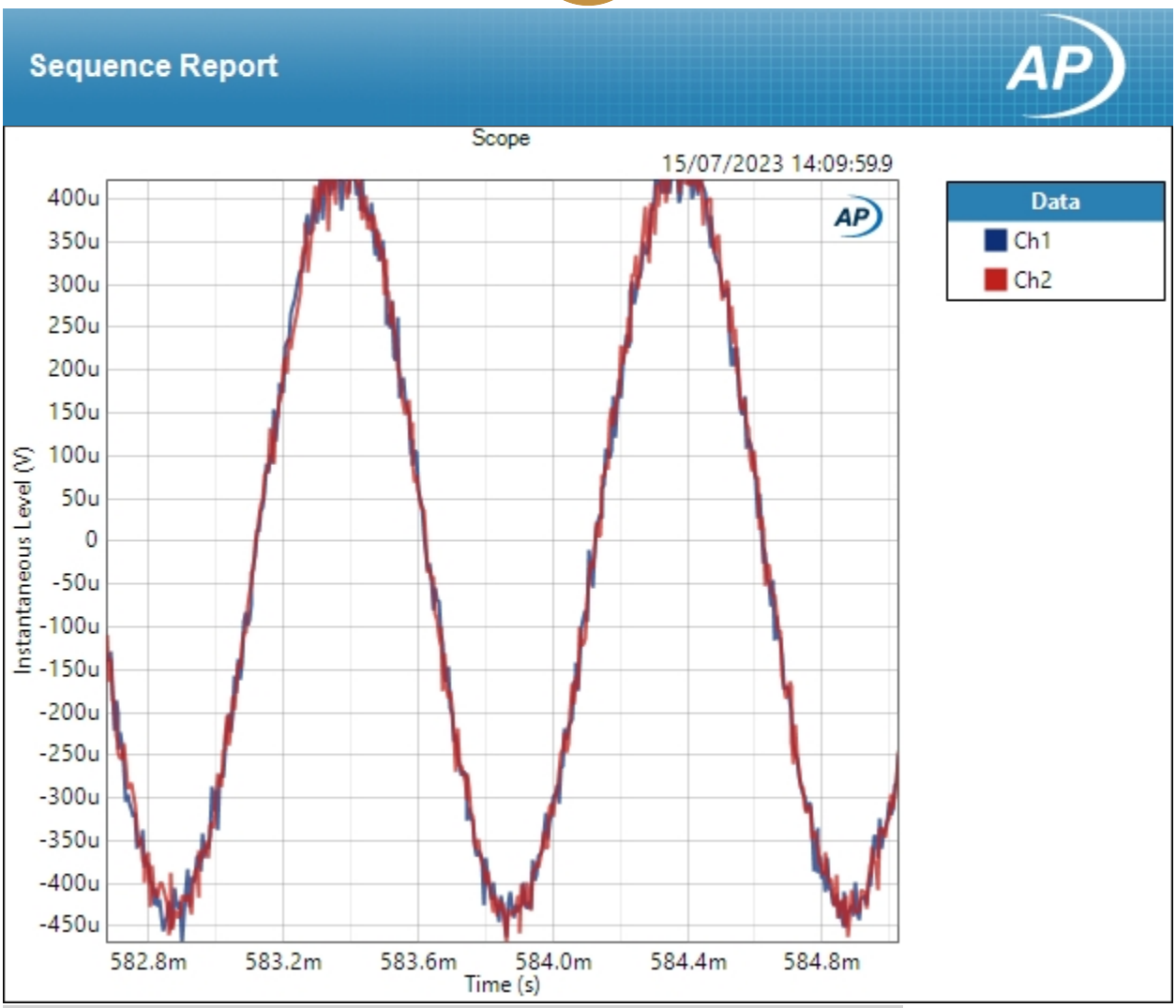
Result: PASSED

Sequence Report

SIG 1 - Scope Views (44.1khz) : -90.31dBFS 1khz 24 bit dithered sine (96khz Bandwidth)

Waveform:	1khz -90.31dB dithered 24b sine.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:09:59
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:09:59.923)



Scope Parameters

Interpolated: On

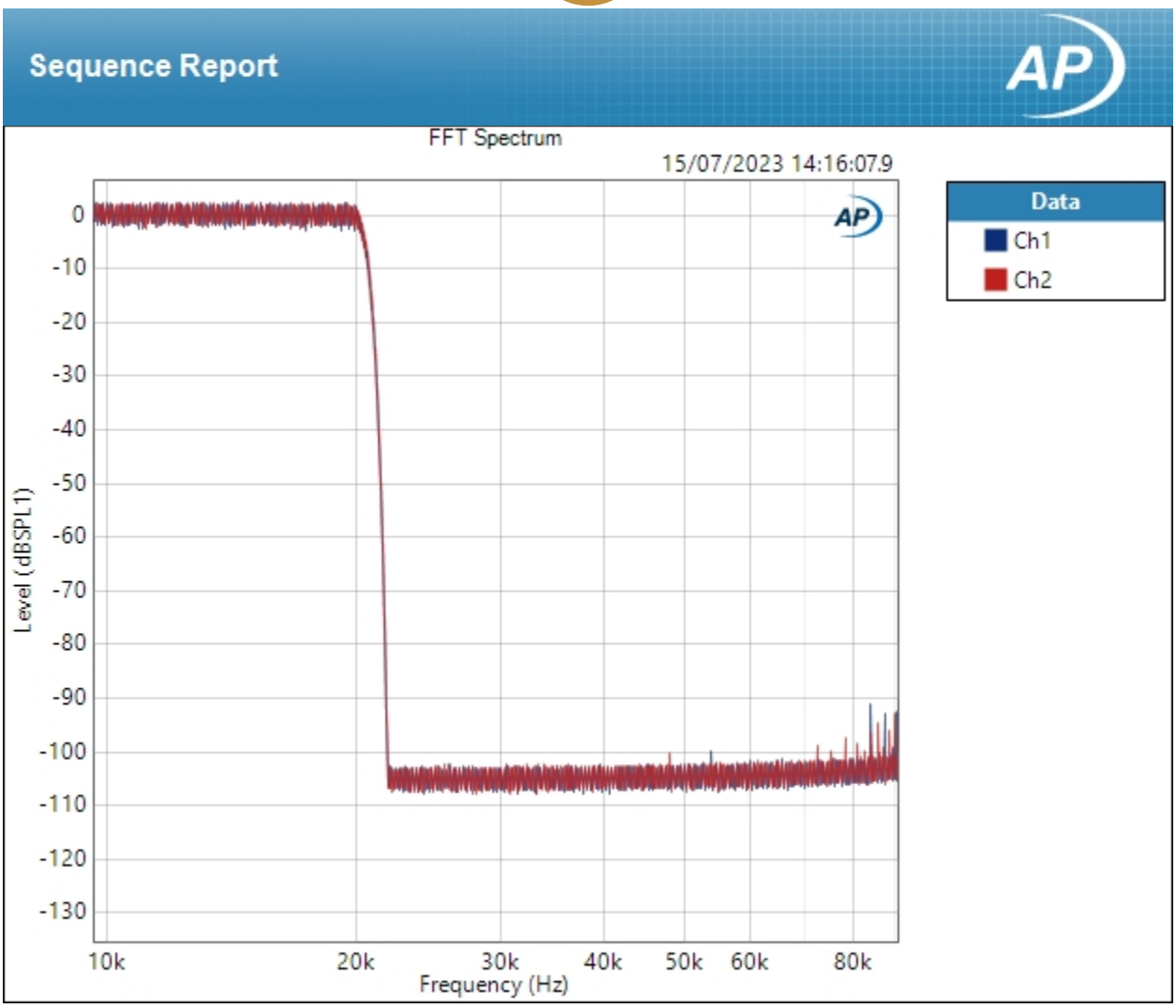
Result: PASSED

Sequence Report

SIG 1 - Scope Views (44.1khz) : Filter Ultrasonic Attenuation

Waveform:	Noise
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Noise Shape:	White
Secondary Source:	None
Measured 1	15/07/2023 14:16:07
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	1248000
Averaging:	Power
Averages:	50
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:16:07.981)



Result: PASSED

Sequence Report

SIG 1 - Scope Views (44.1khz) : 20hz-90khz Noise RMS Level

Waveform:	None
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Acquisition Time:	250.0 ms
Delay Time:	300.0 ms

Noise Level (15/07/2023 14:16:09.402)

Ch1 17.13 uVrms

Ch2 16.98 uVrms

SIG 1.5 - Scope Views (44.1khz) : Signal Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 1M (2.496 MHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Disabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	10.03 Vrms
dBrB:	10.03 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	10.03 Vrms
dBSPL2:	10.03 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL
dBSPL2 Calibrator Level:	50.000 dBSPL

dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

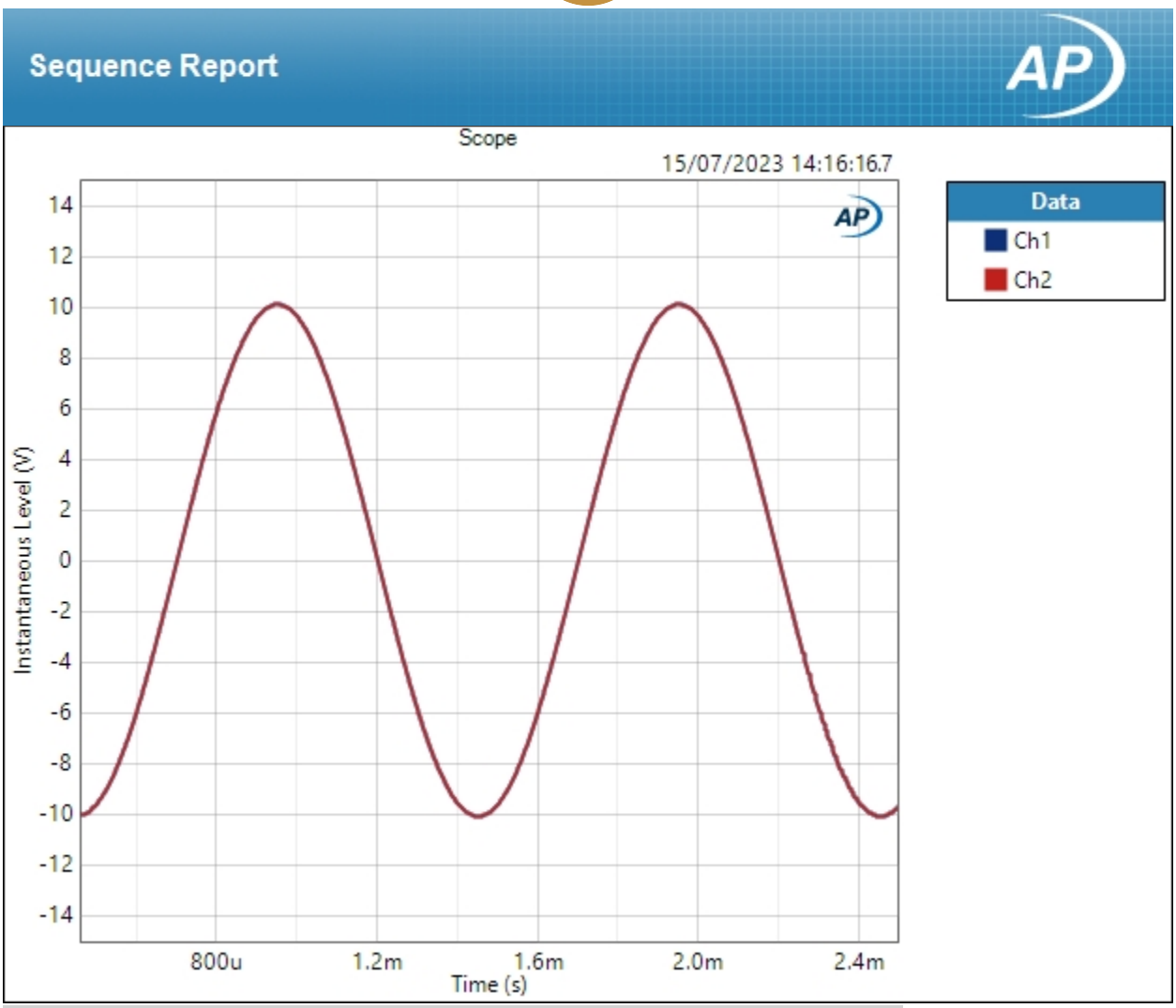
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

Sequence Report

SIG 1.5 - Scope Views (44.1khz) : 1khz Tone View

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:16:16
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:16:16.721)



Scope Parameters

Interpolated: On

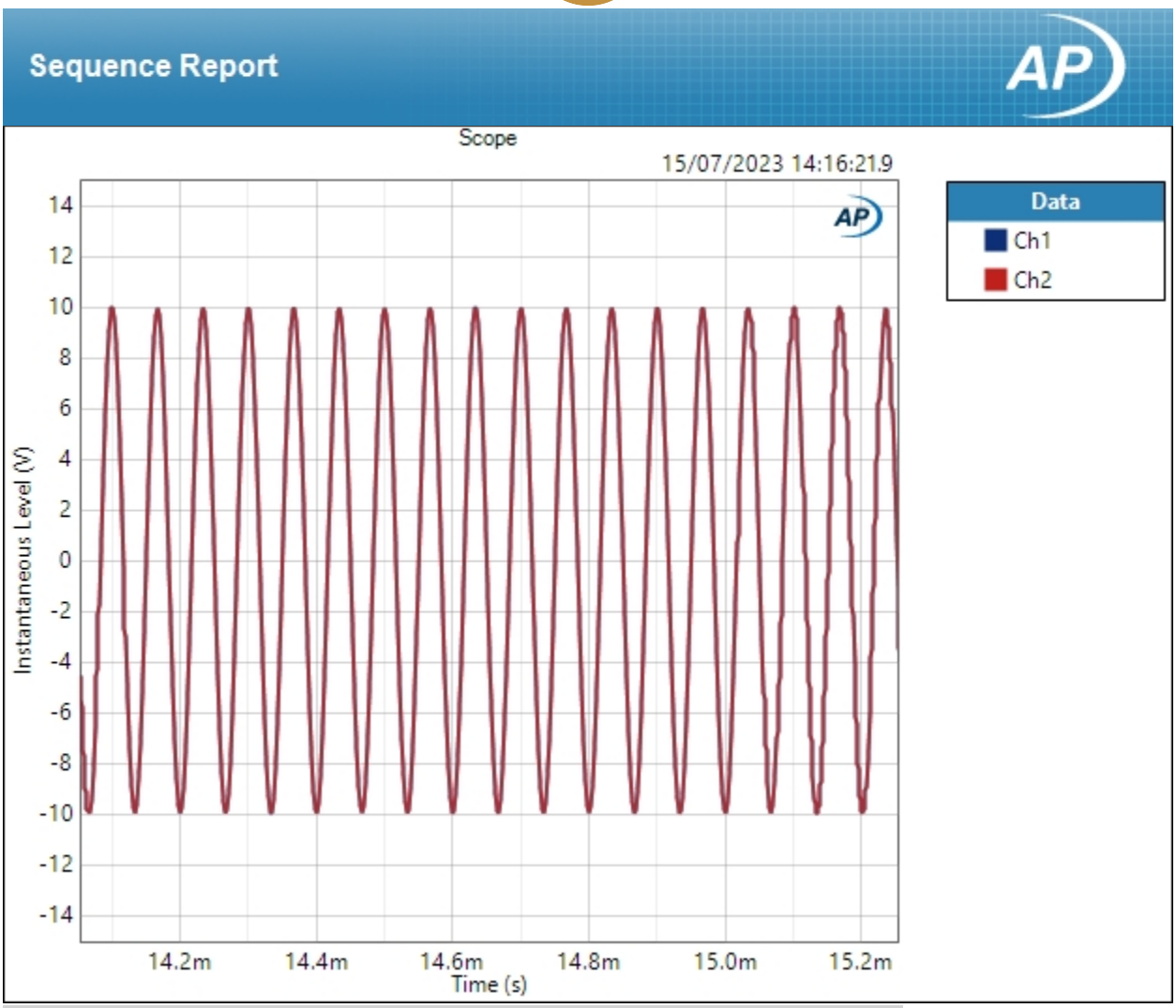
Result: PASSED

Sequence Report

SIG 1.5 - Scope Views (44.1khz) : 15khz Tone View

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	15.0000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:16:21
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:16:21.988)



Scope Parameters

Interpolated: On

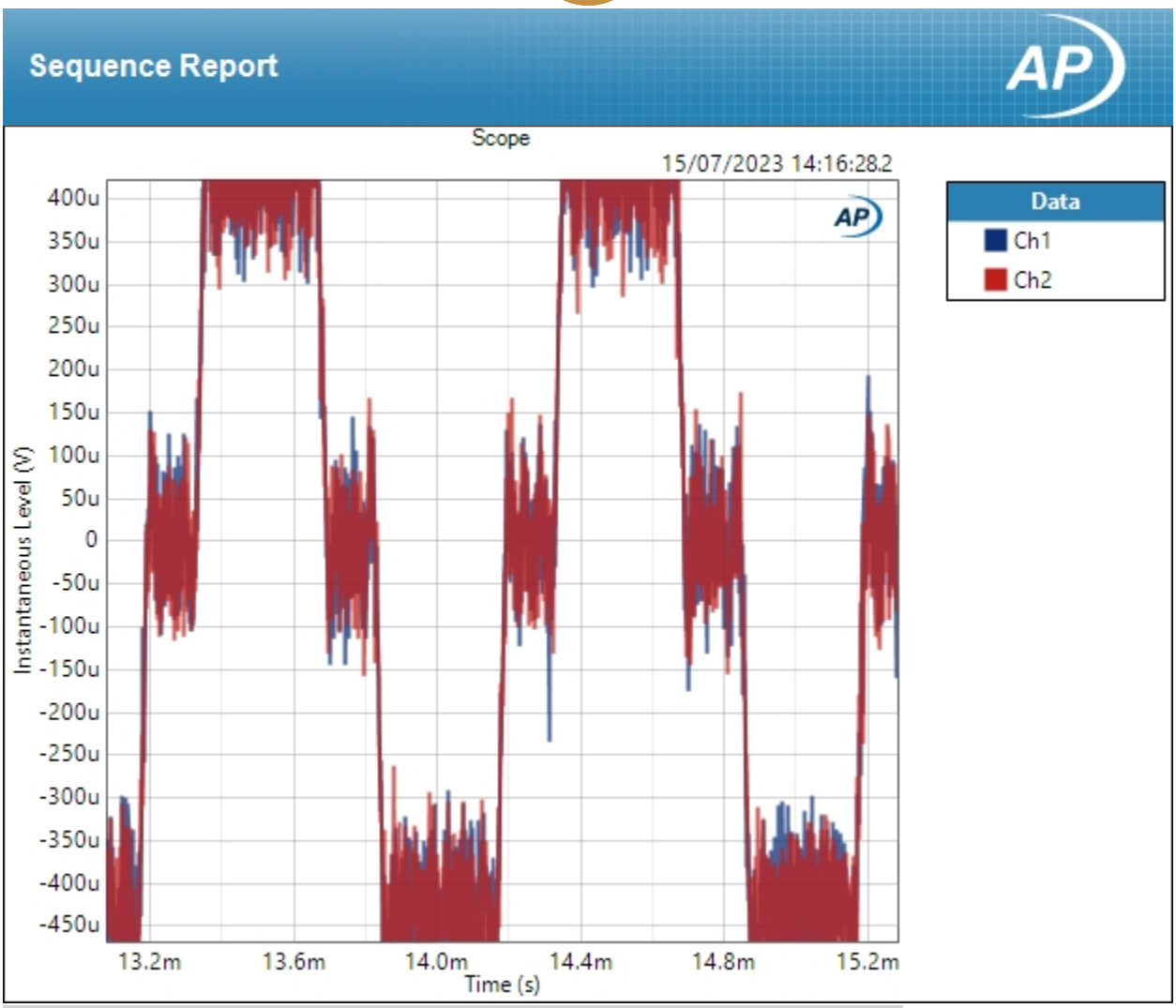
Result: PASSED

Sequence Report

SIG 1.5 - Scope Views (44.1khz) : -90.31dBFS 1khz undithered 16b sine (1Mhz bandwidth)

Waveform:	1khz -90.31dB undithered 16b sine.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:16:28
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:16:28.238)



Scope Parameters

Interpolated: On

Result: PASSED

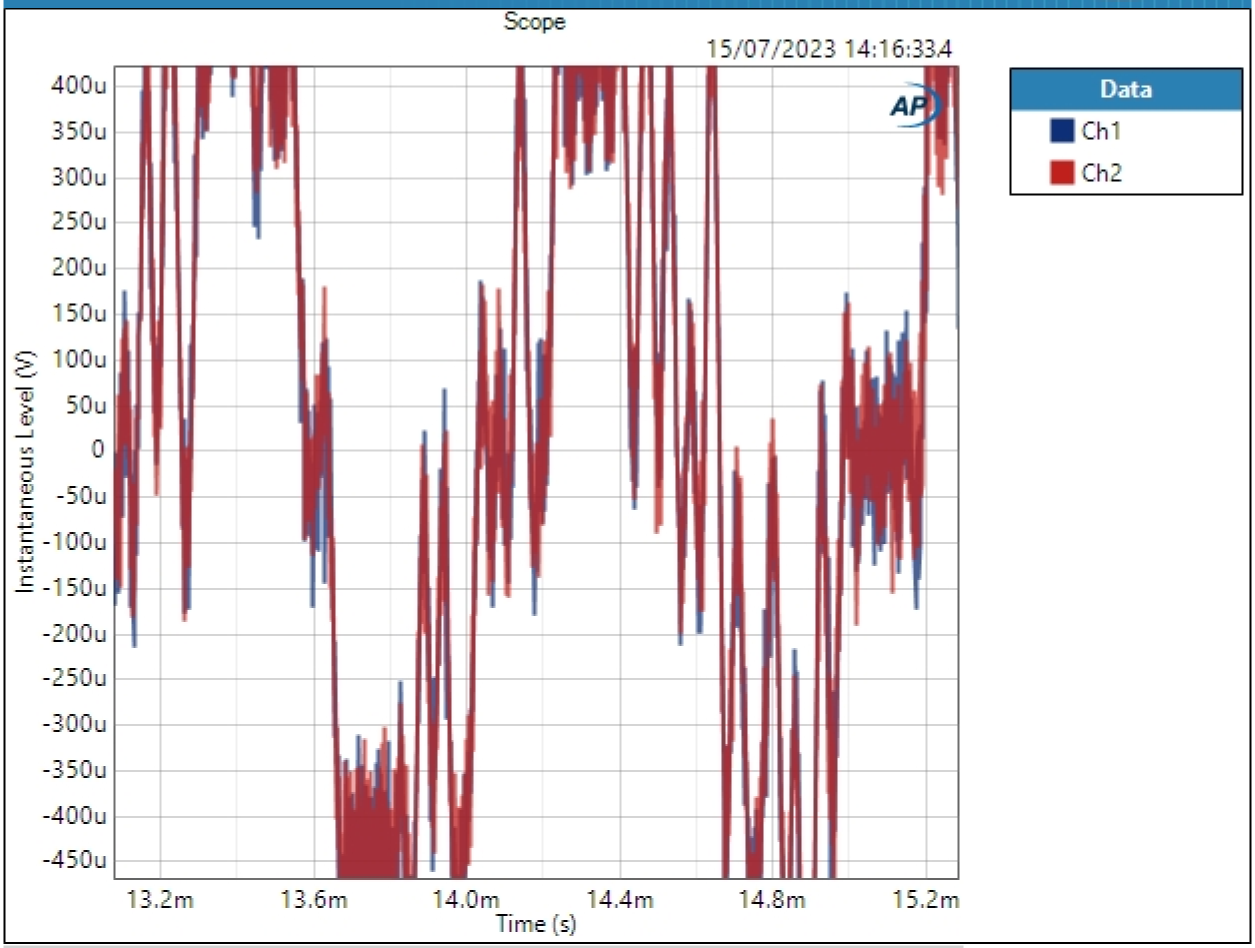
Sequence Report

SIG 1.5 - Scope Views (44.1khz) : -90.31dBFS 1khz dithered 16b sine (1Mhz bandwidth)

Waveform:	1khz -90.31dB dithered 16b sine.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:16:33
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:16:33.410)

Sequence Report



Scope Parameters

Interpolated: On

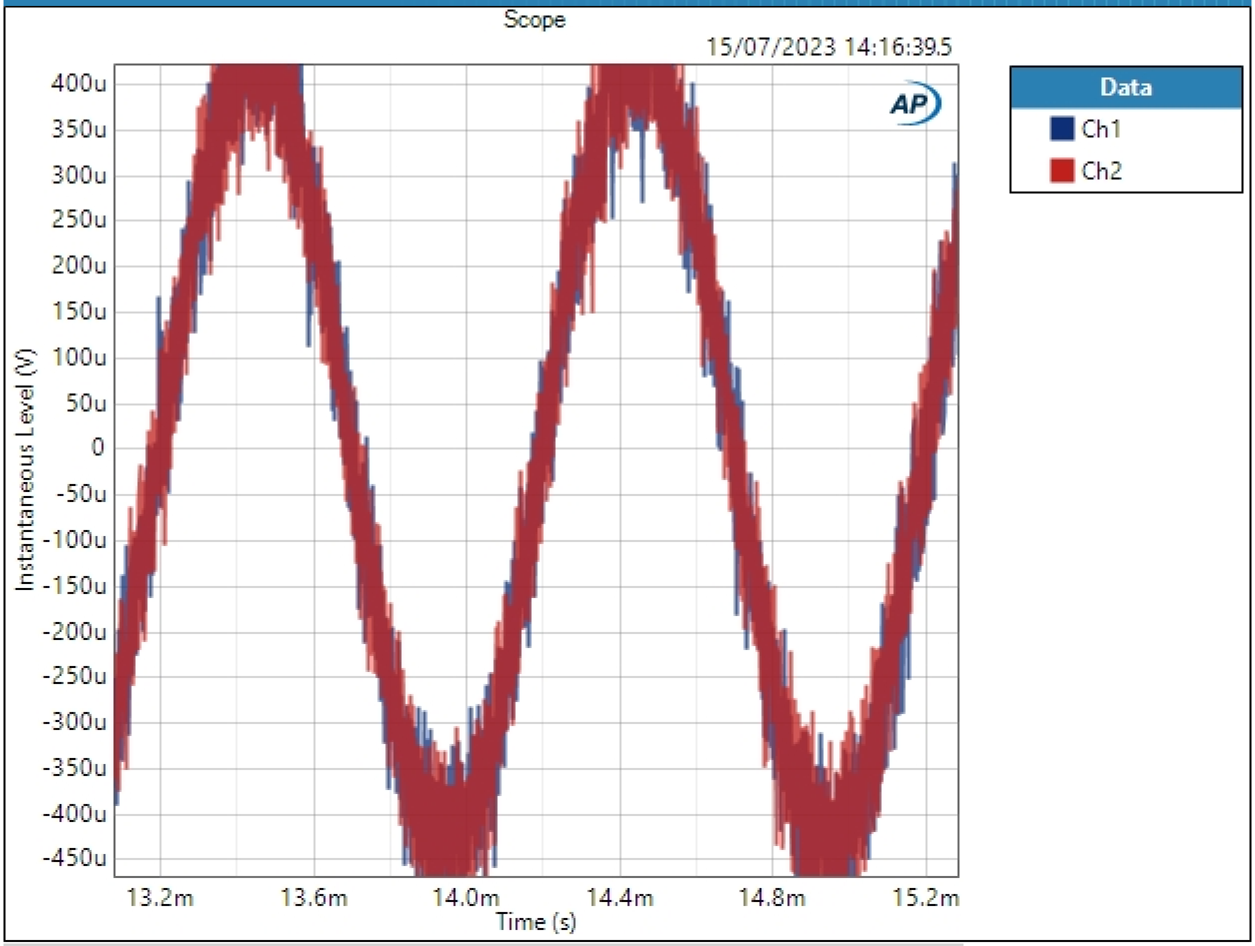
Result: PASSED

Sequence Report

SIG 1.5 - Scope Views (44.1khz) : -90.31dBFS 1khz undithered 24b sine (1Mhz bandwidth)

Waveform:	1khz -90.31dB undithered 24b sine.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:16:39
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:16:39.522)



Scope Parameters

Interpolated: On

Result: PASSED

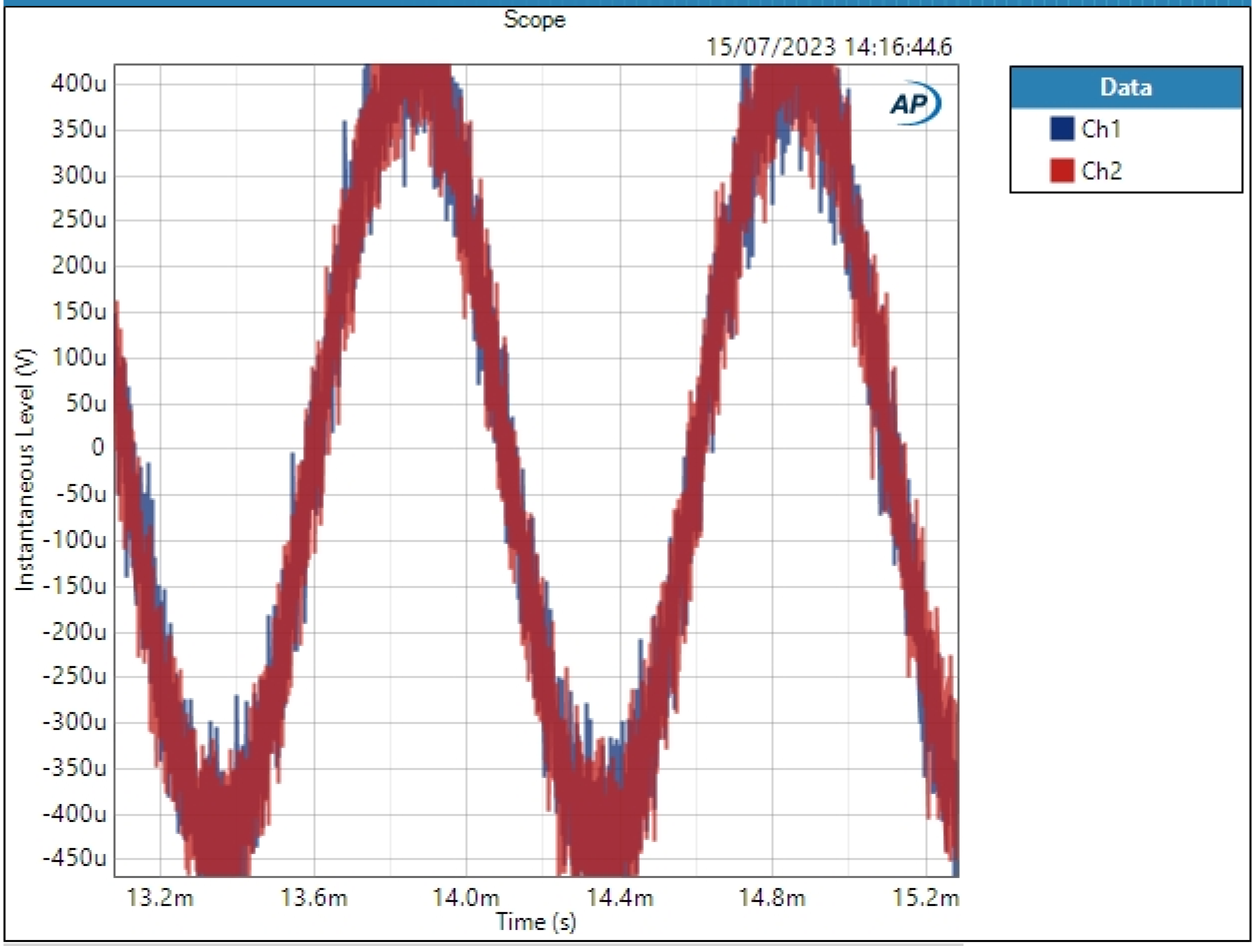
Sequence Report

SIG 1.5 - Scope Views (44.1khz) : -90.31dBFS 1khz dithered 24b sine (1Mhz bandwidth)

Waveform:	1khz -90.31dB dithered 24b sine.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:16:44
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	1
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

Scope (15/07/2023 14:16:44.650)

Sequence Report



Scope Parameters

Interpolated: On

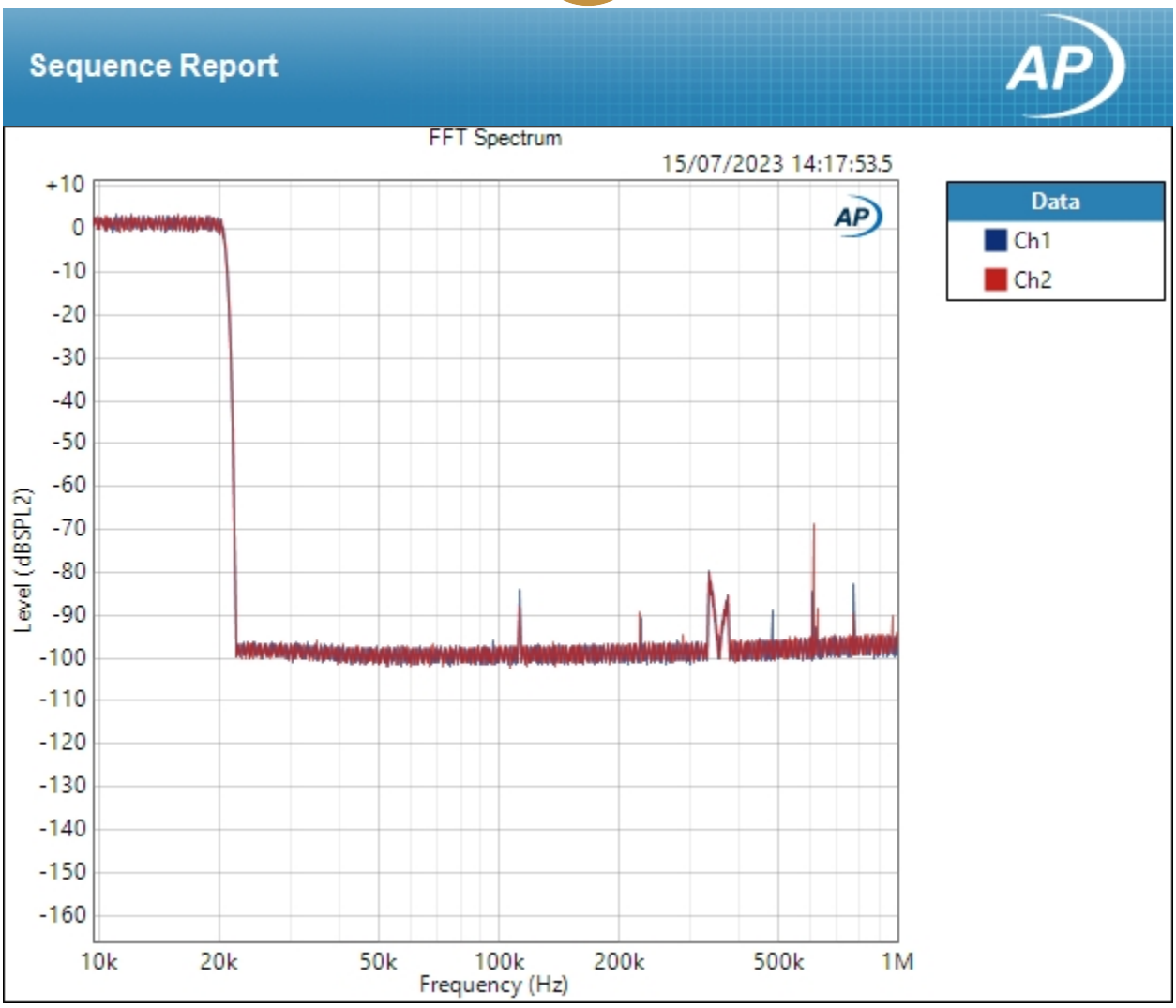
Result: PASSED

Sequence Report

SIG 1.5 - Scope Views (44.1khz) : Filter Ultrasonic Attenuation

Waveform:	Noise
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Noise Shape:	White
Secondary Source:	None
Measured 1	15/07/2023 14:17:53
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	1248000
Averaging:	Power
Averages:	50
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:17:53.522)



Result: PASSED

Sequence Report

SIG 1.5 - Scope Views (44.1khz) : 1Mhz RMS Noise Level

Waveform:	None
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Acquisition Time:	250.0 ms
Delay Time:	300.0 ms

Noise Level (15/07/2023 14:17:55.715)

Ch1 43.67 uVrms

Ch2 43.64 uVrms

SIG 2 - Main Measurements (44.1khz) : Signal Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - AES17 (20 kHz)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	10.03 Vrms
dBrB:	10.03 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	10.03 Vrms
dBSPL2:	10.03 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL
dBSPL2 Calibrator Level:	50.000 dBSPL

dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

SIG 2 - Main Measurements (44.1khz) : Output Level (Vrms)

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (15/07/2023 14:18:00.727)

Ch1 10.03 Vrms

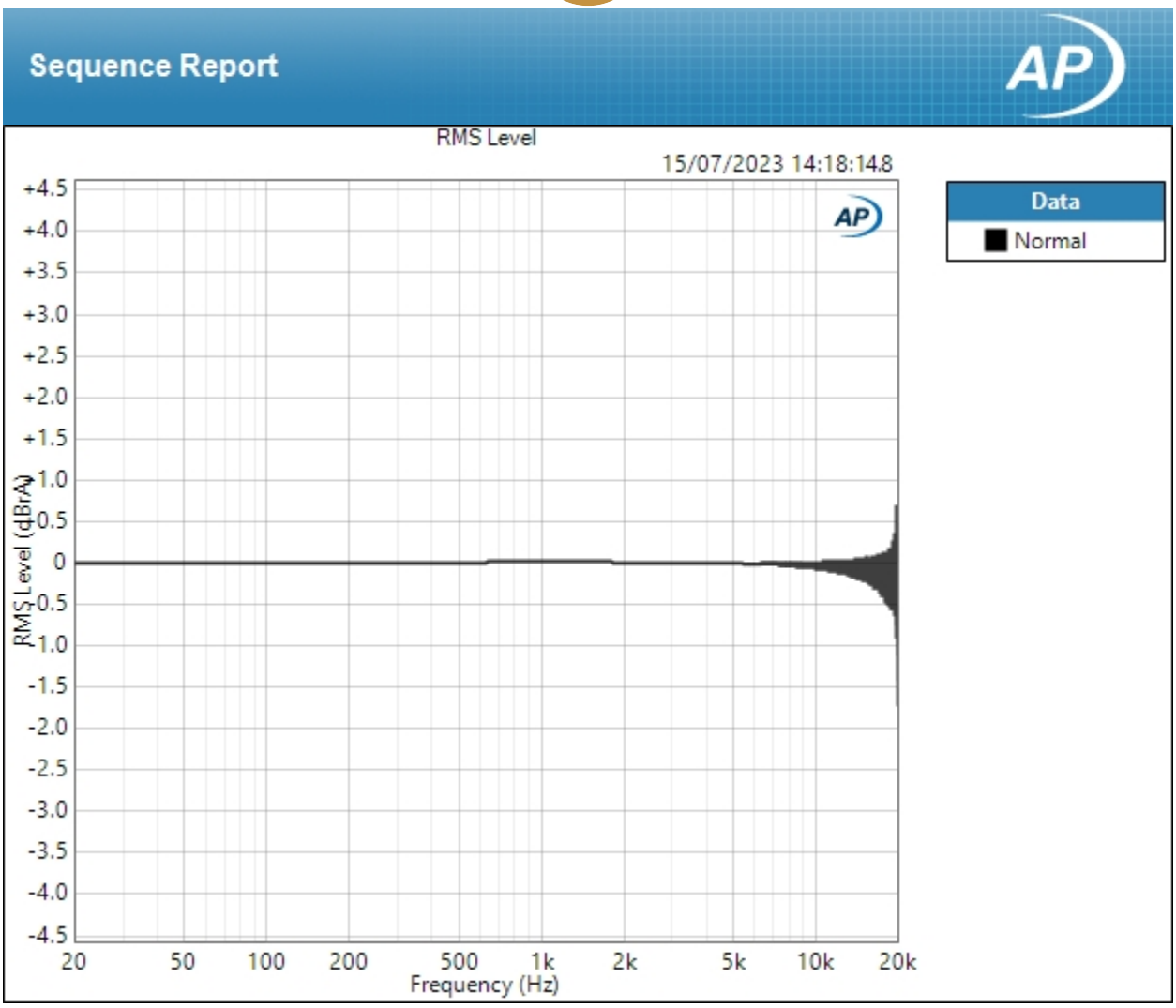
Ch2 10.02 Vrms

Sequence Report

SIG 2 - Main Measurements (44.1khz) : Frequency Response (Audible Band)

Start Frequency:	20.0000 Hz
Stop Frequency:	22.0500 kHz
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
EQ:	None
Pre-Sweep:	50.00 ms
Sweep:	5.000 s
Extend Acquisition By:	50.00 ms
Secondary Source:	None
Measured 1	15/07/2023 14:18:14

RMS Level (15/07/2023 14:18:14.861)



Result: PASSED

Deviation (20.0000 Hz - 4.00000 kHz) (15/07/2023 14:18:14.861)

Ch1 ±0.006 dB

Ch2 ±0.006 dB

Deviation (20.0000 Hz - 4.00000 kHz) Parameters

Min: 20.0000 Hz

Max: 4.00000 kHz

Sequence Report

SIG 2 - Main Measurements (44.1khz) : 20hz-20khz Noise RMS Level

Waveform:	None
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	Signal Path
Acquisition Time:	250.0 ms
Delay Time:	300.0 ms

Noise Level (15/07/2023 14:18:18.973)

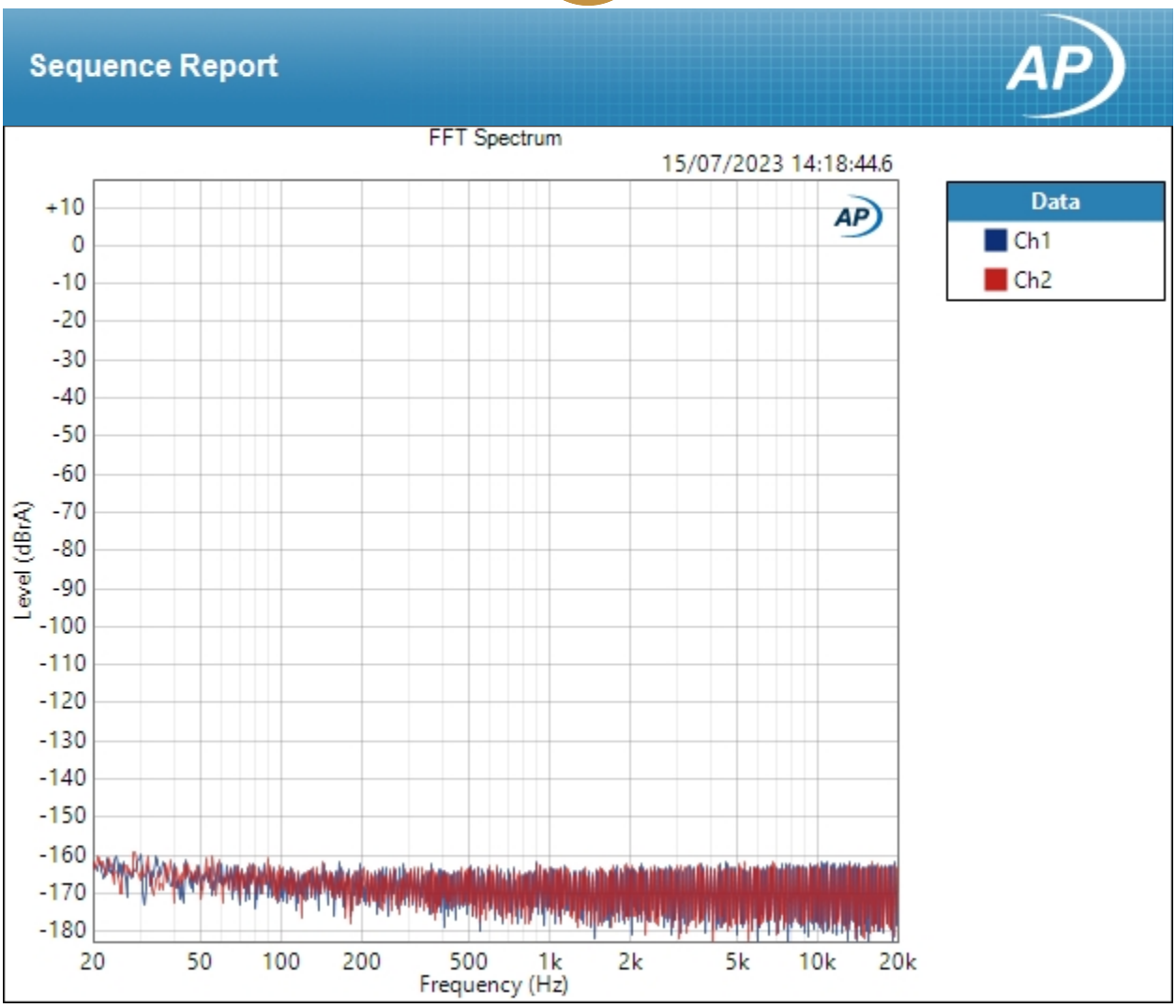
Ch1 7.990 uVrms
Ch2 7.942 uVrms

Sequence Report

SIG 2 - Main Measurements (44.1khz) : Idle Noise FFT

Waveform:	Sine
Generator Level:	-∞ dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:18:44
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	4
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:18:44.696)



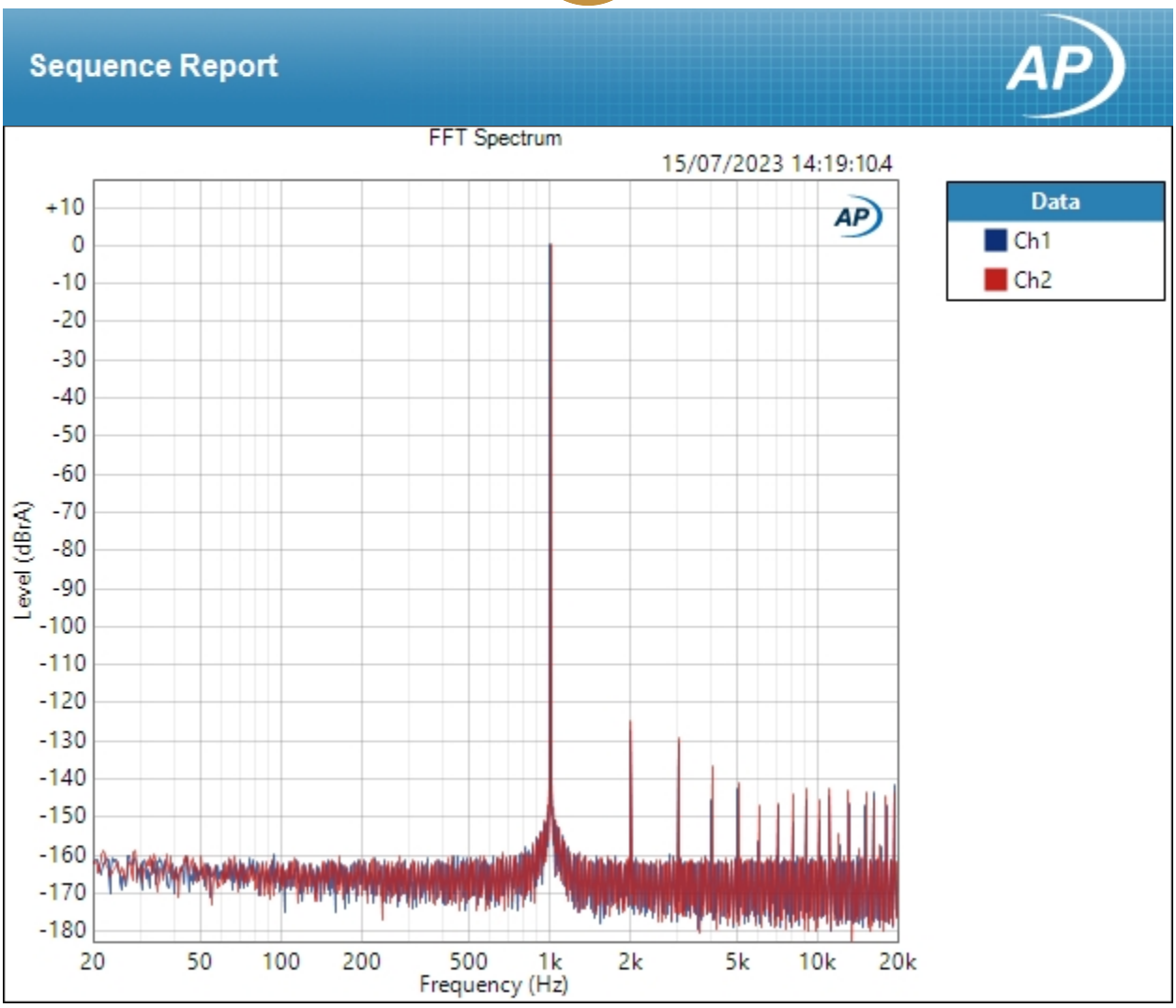
Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : 1khz FFT (0dbfs)

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:19:10
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	4
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:19:10.450)



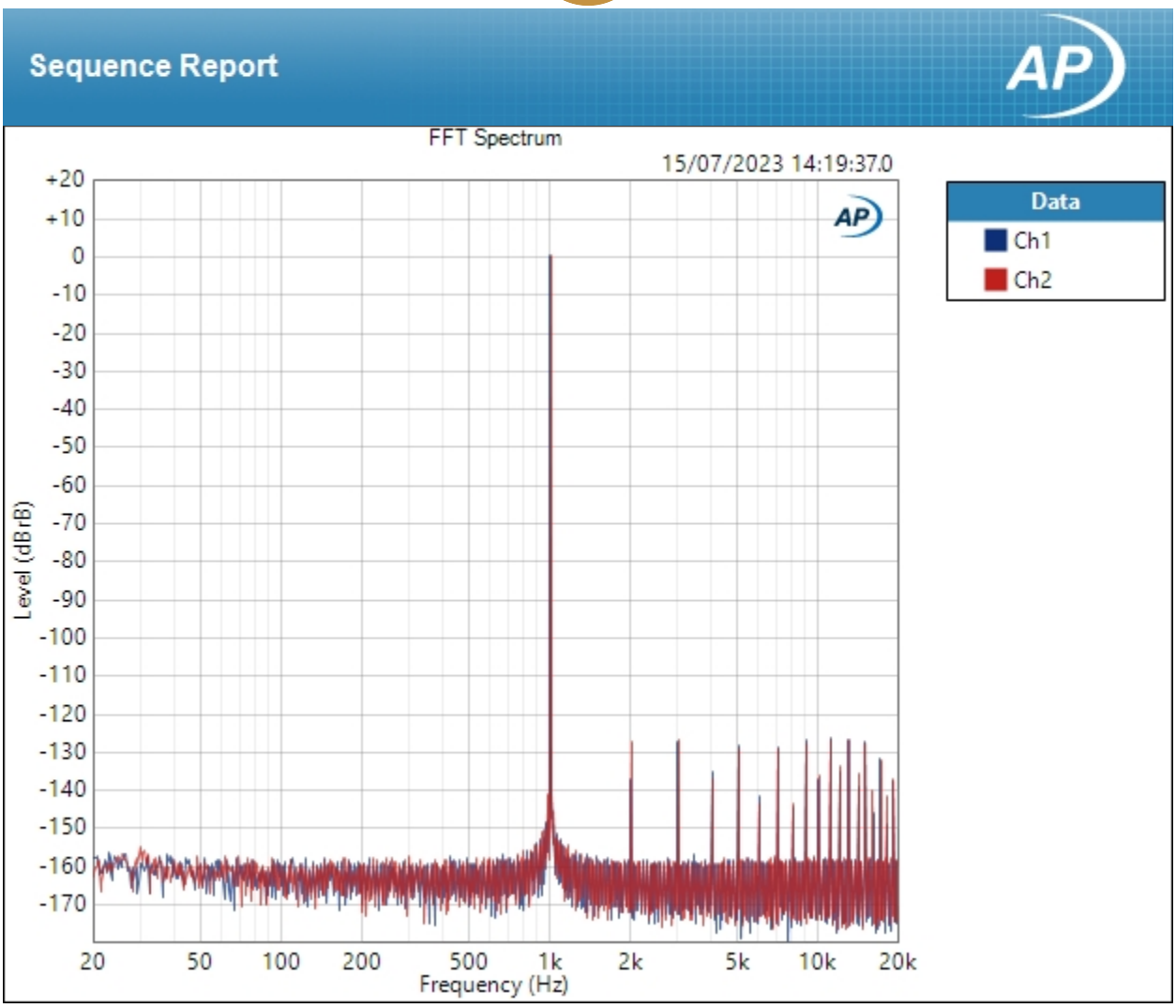
Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : 1khz FFT (-3dbfs)

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:19:37
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	4
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:19:37.029)



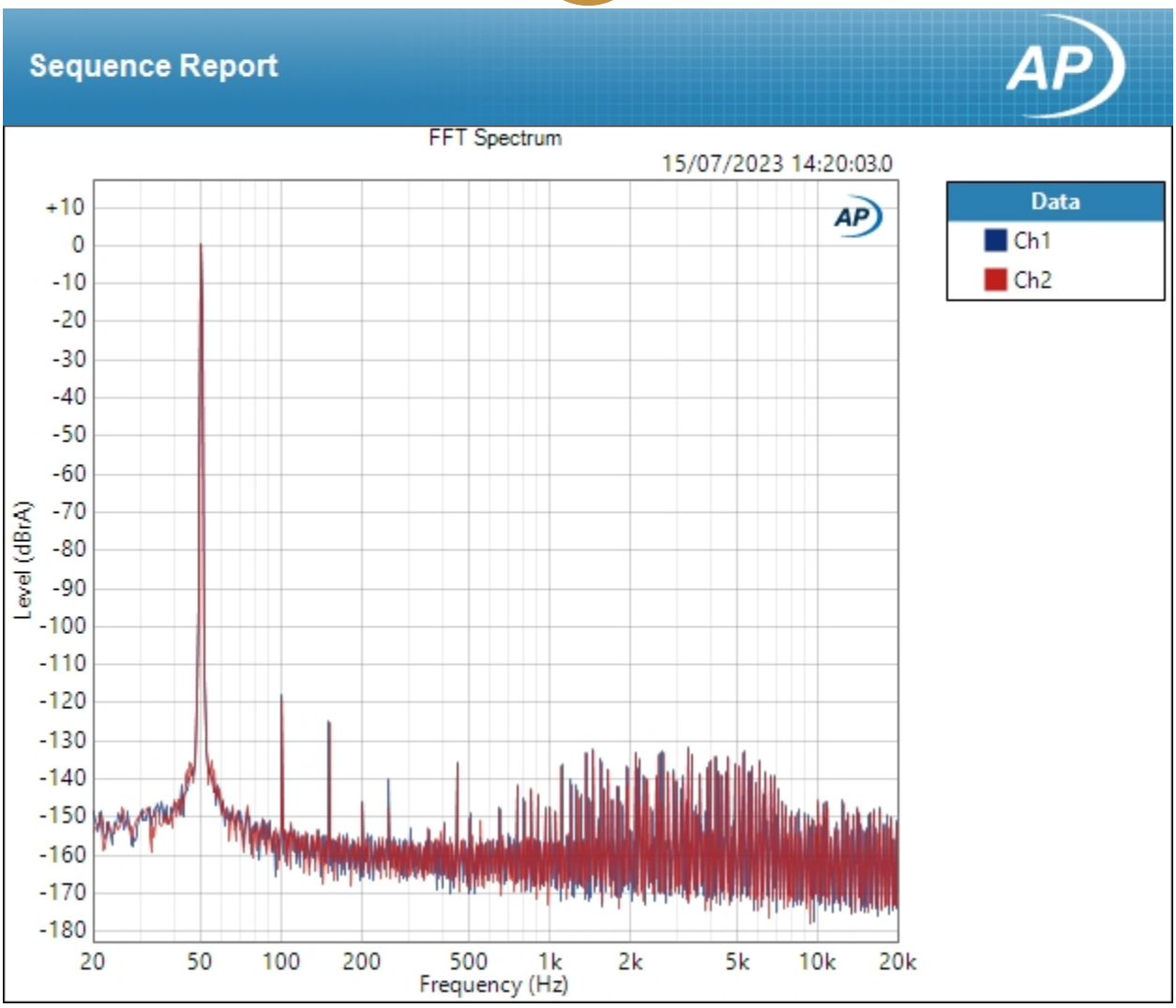
Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : 50khz FFT (0dbfs)

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	50.0000 Hz
Secondary Source:	None
Measured 1	15/07/2023 14:20:03
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	4
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:20:03.032)



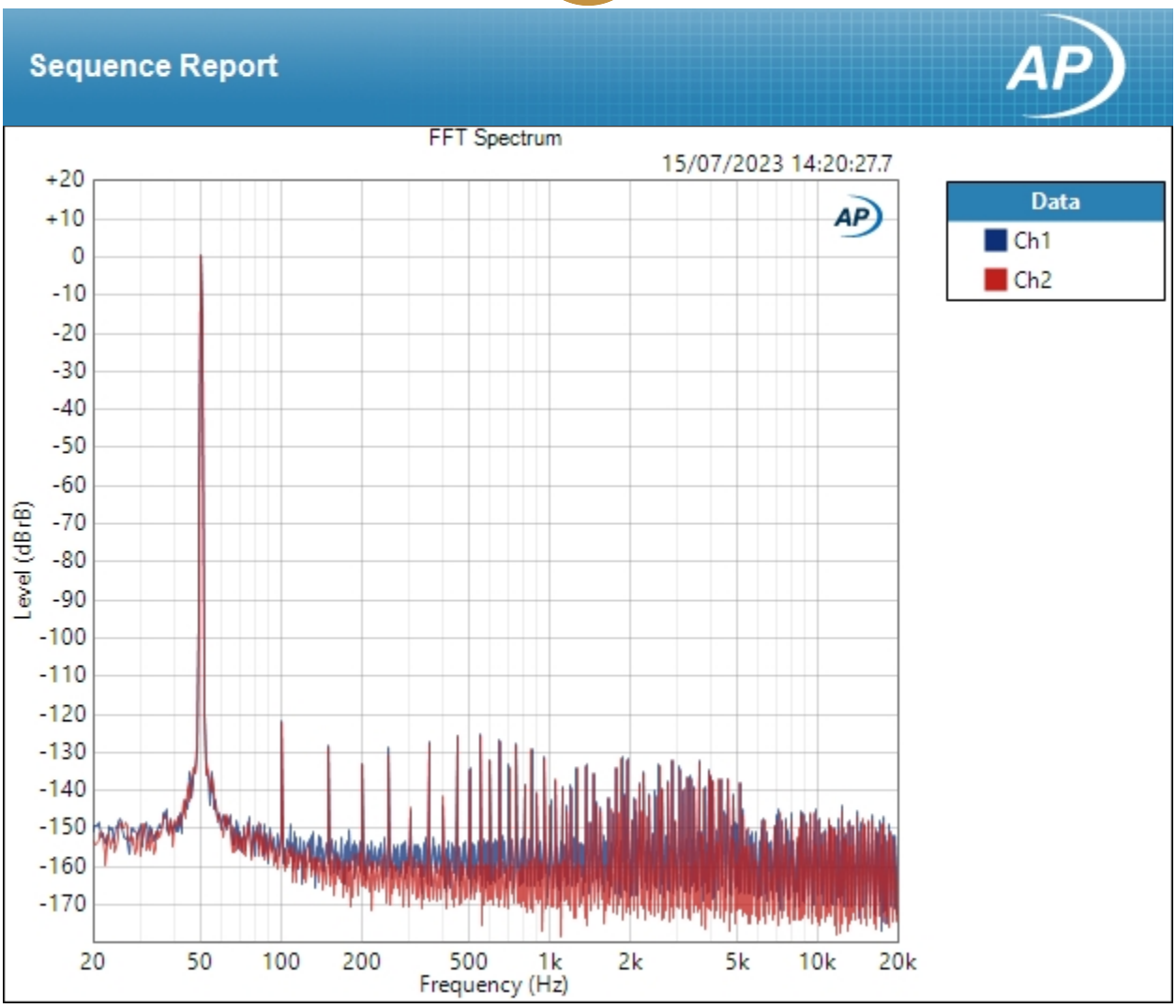
Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : 50hz FFT (-3dbfs)

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	50.0000 Hz
Secondary Source:	None
Measured 1	15/07/2023 14:20:27
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	4
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:20:27.746)



Result: PASSED

SIG 2 - Main Measurements (44.1khz) : Effective Number of Bits 0dbfs

Waveform:	Sine (1 kHz)
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	Signal Path
Notch Tuning Mode:	Measured Frequency

ENOB (15/07/2023 14:20:31.498)

Ch1 19.5

Ch2 19.1

SIG 2 - Main Measurements (44.1khz) : Effective Number of Bits -3dbfs

Waveform:	Sine (1 kHz)
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	Signal Path
Notch Tuning Mode:	Measured Frequency

ENOB (15/07/2023 14:20:34.092)

Ch1 18.8

Ch2 18.7

Sequence Report

SIG 2 - Main Measurements (44.1khz) : THD+N 0dbfs

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	Signal Path
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (15/07/2023 14:20:38.951)

Ch1 0.000110 %

Ch2 0.000136 %

THD+N Level (15/07/2023 14:20:38.951)

Ch1 -119.130 dBrA

Ch2 -117.350 dBrA

Noise Level (15/07/2023 14:20:38.951)

Ch1 9.396 uVrms

Ch2 9.427 uVrms

Distortion Product Ratio (15/07/2023 14:20:38.951)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	-0.00	-126.95	-130.87	-144.88	-140.68	-148.73	-147.99	-148.37	-143.66	-147.83
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-123.66	-127.02	-130.69	-134.20	-135.47	-136.09	-136.62	-134.82	-138.75

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

Sequence Report

SIG 2 - Main Measurements (44.1khz) : THD+N -3dbfs

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	Signal Path
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (15/07/2023 14:20:41.817)

Ch1 0.000185 %

Ch2 0.000184 %

THD+N Level (15/07/2023 14:20:41.817)

Ch1 -114.656 dBrB

Ch2 -114.698 dBrB

Noise Level (15/07/2023 14:20:41.817)

Ch1 9.245 uVrms

Ch2 9.386 uVrms

Distortion Product Ratio (15/07/2023 14:20:41.817)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	-0.00	-137.24	-126.70	-134.36	-127.39	-139.01	-128.44	-139.95	-127.10	-136.94
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-127.77	-126.85	-138.77	-128.77	-143.66	-128.85	-140.03	-128.05	-137.28

Distortion Product Ratio Parameters

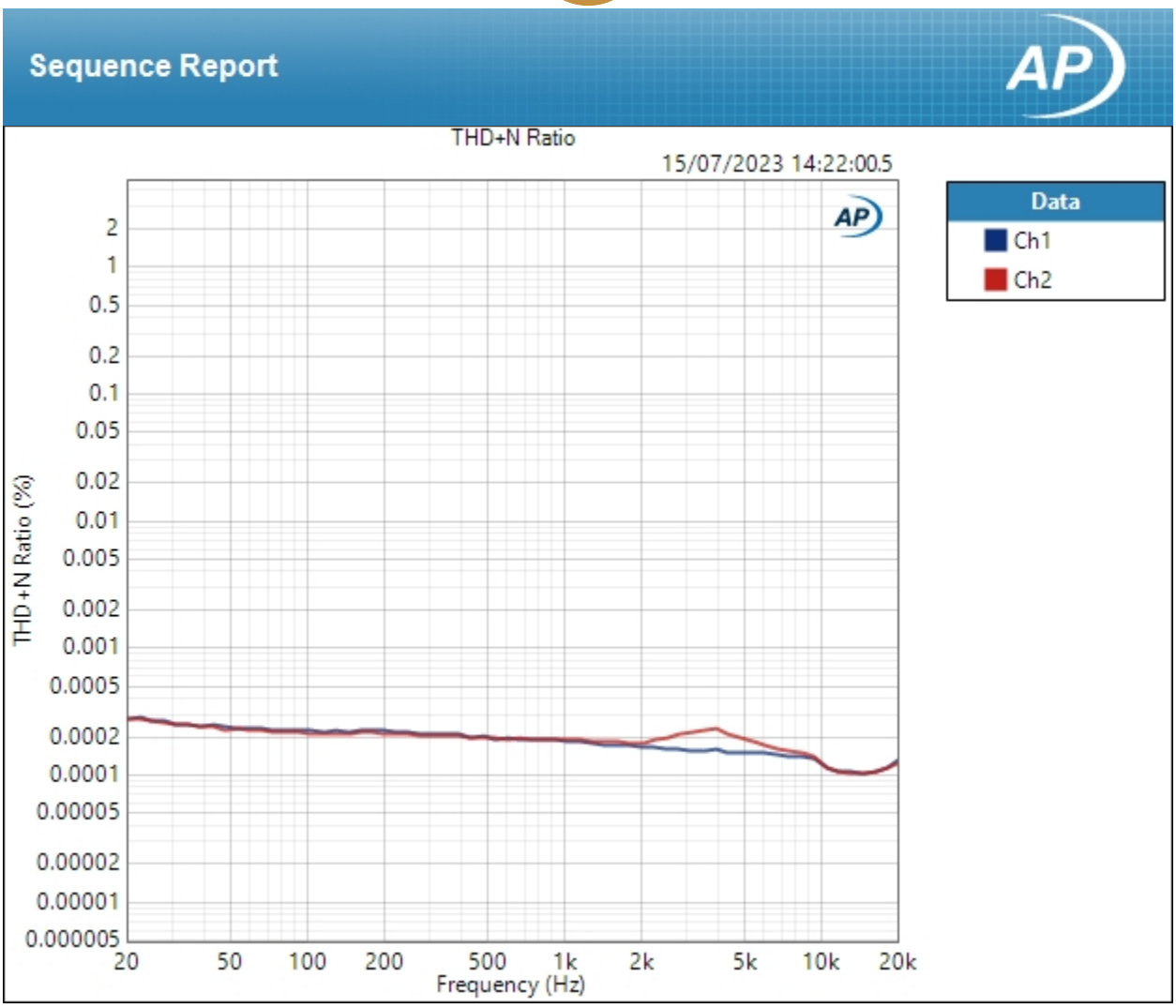
Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

Sequence Report

SIG 2 - Main Measurements (44.1khz) : THD+N/Frequency

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
EQ:	None
Start Frequency:	20.0000 kHz
Stop Frequency:	20.0000 Hz
Step Type:	Logarithmic
Number of Points:	64
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Phase Ref Channel:	Ch1
Measured 1	15/07/2023 14:22:00

THD+N Ratio (15/07/2023 14:22:00.566)



Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : Dynamic Range - AES17

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	0.99700 kHz
Level Ratio:	-60.000 dB
High-pass Filter:	Signal Path
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	CCIR-2k

Dynamic Range - AES17 (15/07/2023 14:22:10.070)

Ch1 120.247 dB
Ch2 120.269 dB

SIG 2 - Main Measurements (44.1khz) : Signal to Noise Ratio

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	Signal Path

Signal to Noise Ratio (15/07/2023 14:22:13.244)

Ch1 118.149 dB
Ch2 118.452 dB

Sequence Report

SIG 2 - Main Measurements (44.1khz) : IMD (SMPTE)

IMD Type:	SMPTE
Waveform:	IMD
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency 1:	60.0000 Hz
Frequency 2:	7.00000 kHz
Frequency Ratio:	4:1
IMD Split:	False

SMPTE Ratio (15/07/2023 14:22:15.365)

Ch1 -97.869 dB

Ch2 -100.061 dB

SMPTE Distortion Product Ratio (15/07/2023 14:22:15.365)

Channel	f1	d5	d4	d3	d2	f2	d2	d3	d4	d5
	60.00	6.760k	6.820k	6.880k	6.940k	7.000k	7.060k	7.120k	7.180k	7.240k
Ch1	12.05	-116.32	-130.31	-103.99	-121.09	0.00	-121.34	-103.82	-126.34	-116.71
	60.00	6.760k	6.820k	6.880k	6.940k	7.000k	7.060k	7.120k	7.180k	7.240k
Ch2	12.05	-118.11	-126.59	-108.34	-110.61	0.00	-110.21	-108.00	-124.30	-117.67

SMPTE Distortion Product Ratio Parameters

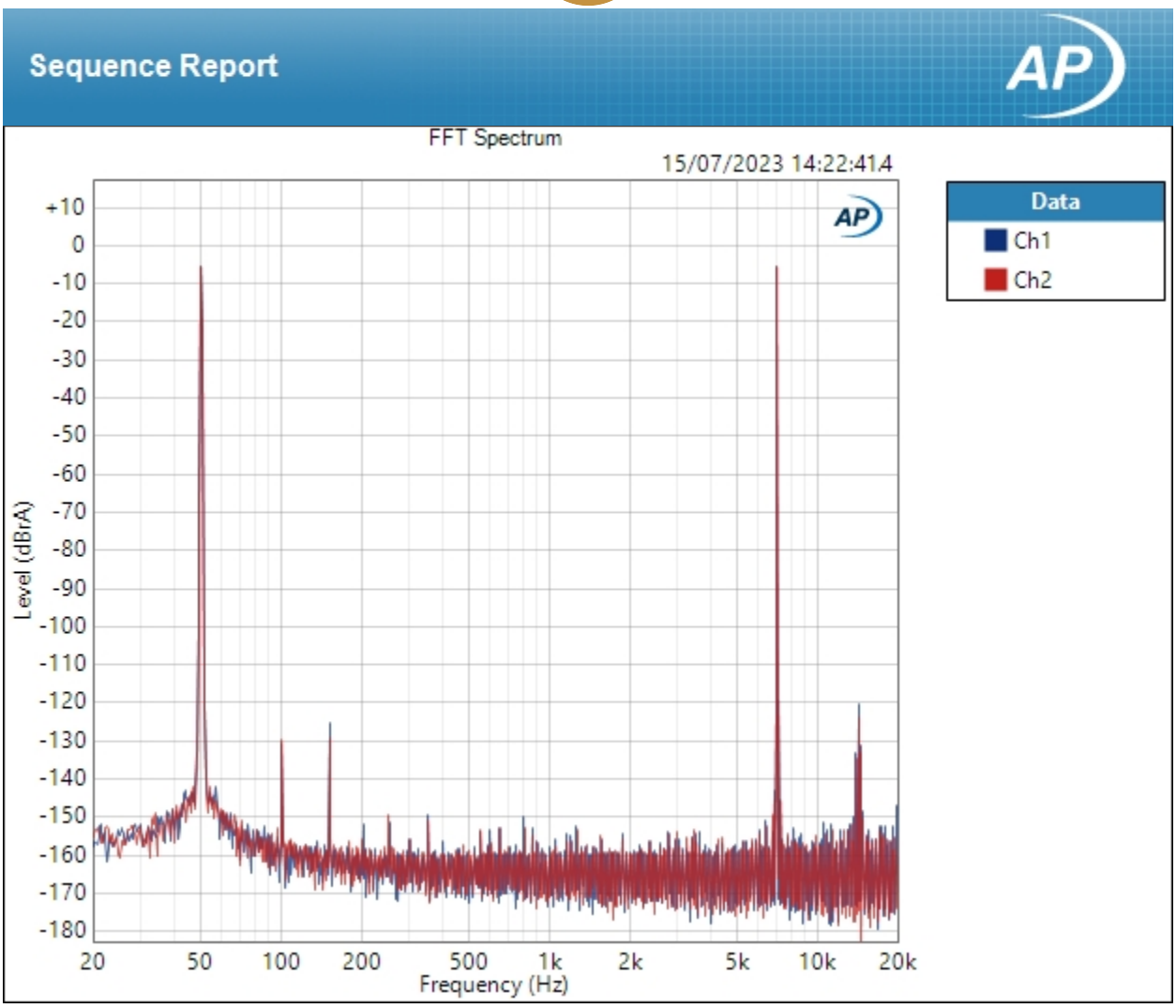
Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

Sequence Report

SIG 2 - Main Measurements (44.1khz) : 50hz/7khz IMD SMPTE FFT

Waveform:	Sine, Dual
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	50.0000 Hz
Frequency B:	7.00000 kHz
IMD Split:	No
FB:FA Ratio:	1.000 x/y
Secondary Source:	None
Measured 1	15/07/2023 14:22:41
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	4
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:22:41.477)



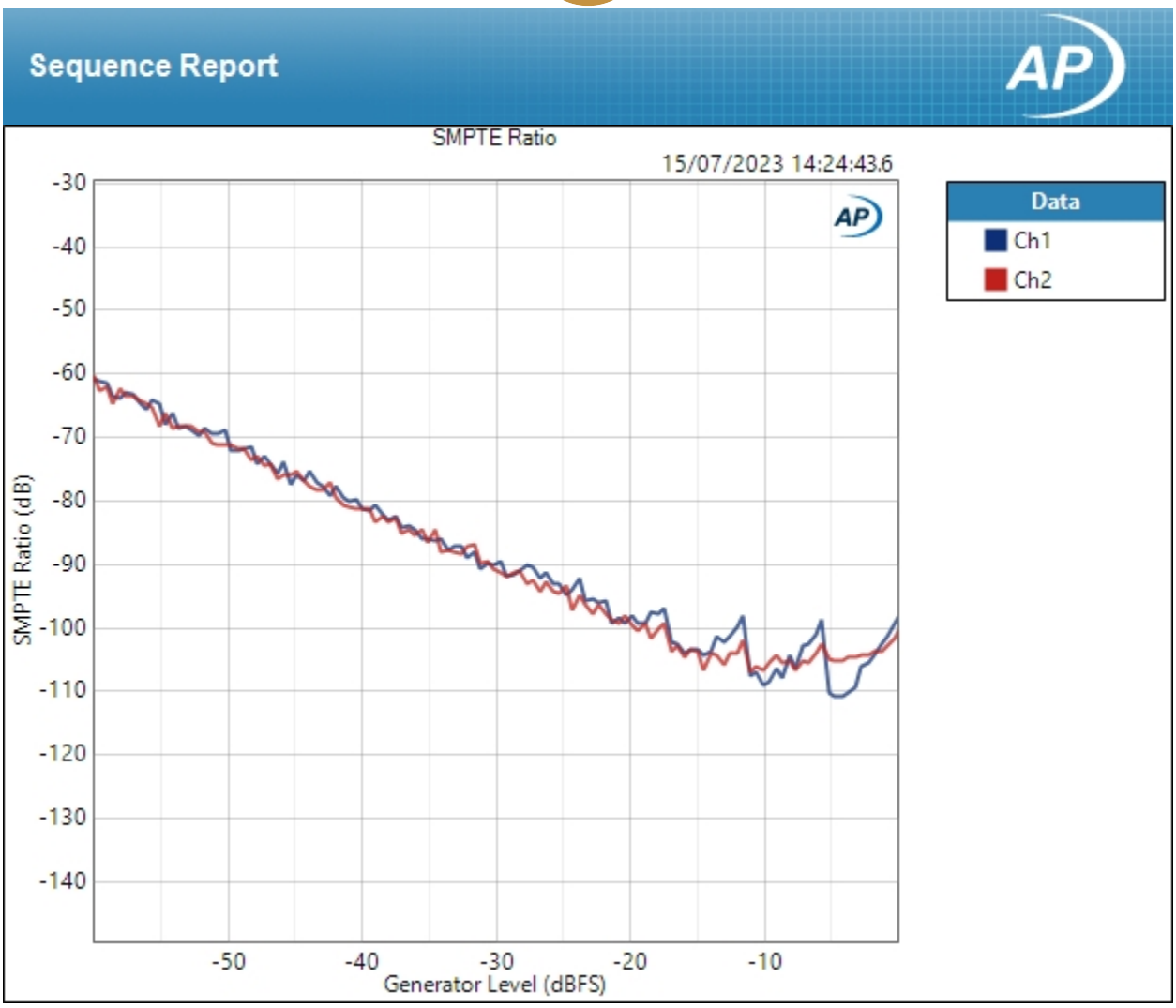
Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : IMD Level Sweep (SMPTE)

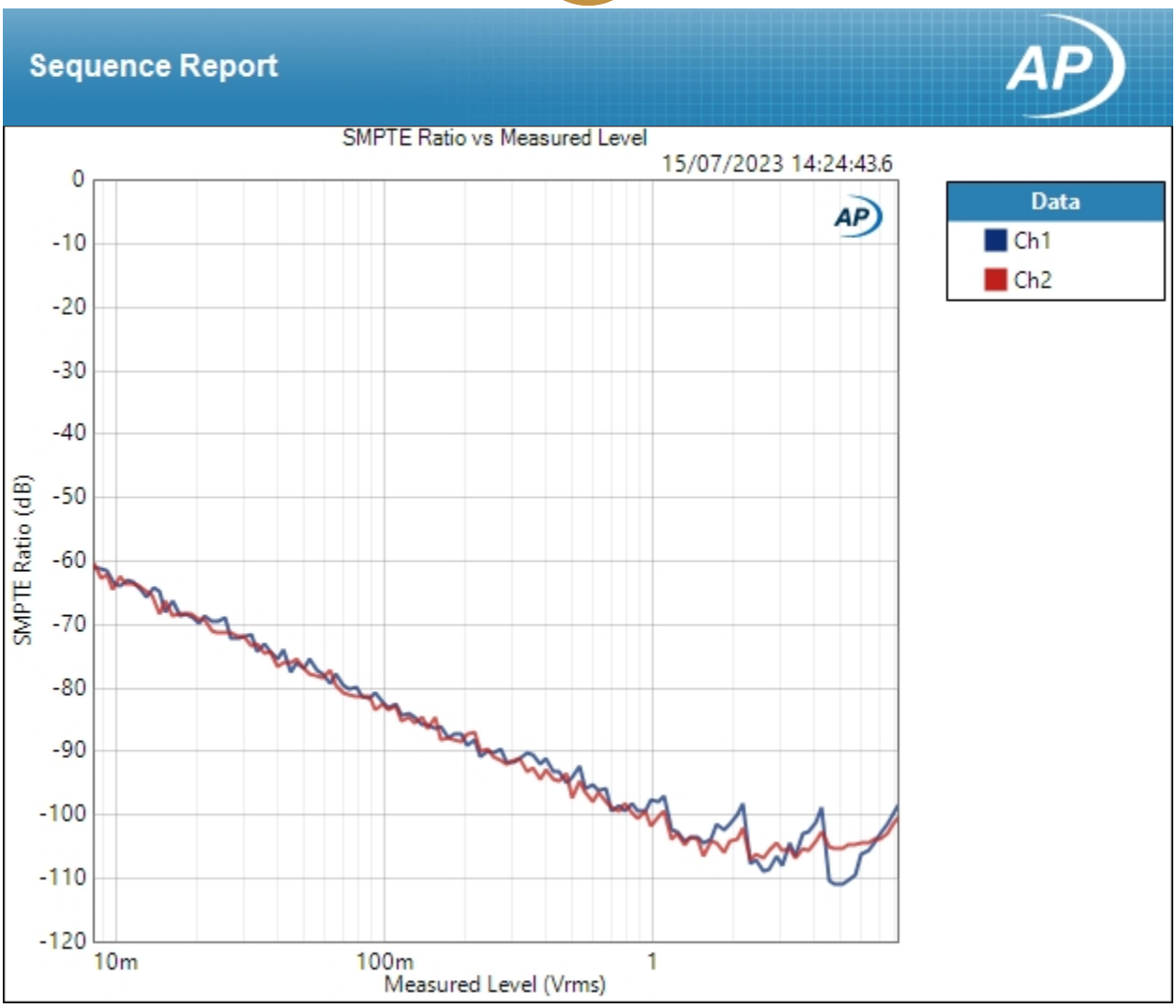
IMD Type:	SMPTE
Frequency 1:	60.0000 Hz
Frequency 2:	7.00000 kHz
Frequency Ratio:	4:1
IMD Split:	False
Start Level:	-60.000 dBFS
Stop Level:	-0.000 dBFS
Step Type:	Linear
Number of Points:	124
Step Size:	+0.488 dBFS
Measured 1	15/07/2023 14:24:43

SMPTE Ratio (15/07/2023 14:24:43.622)



Result: PASSED

SMPTE Ratio vs Measured Level (15/07/2023 14:24:43.622)



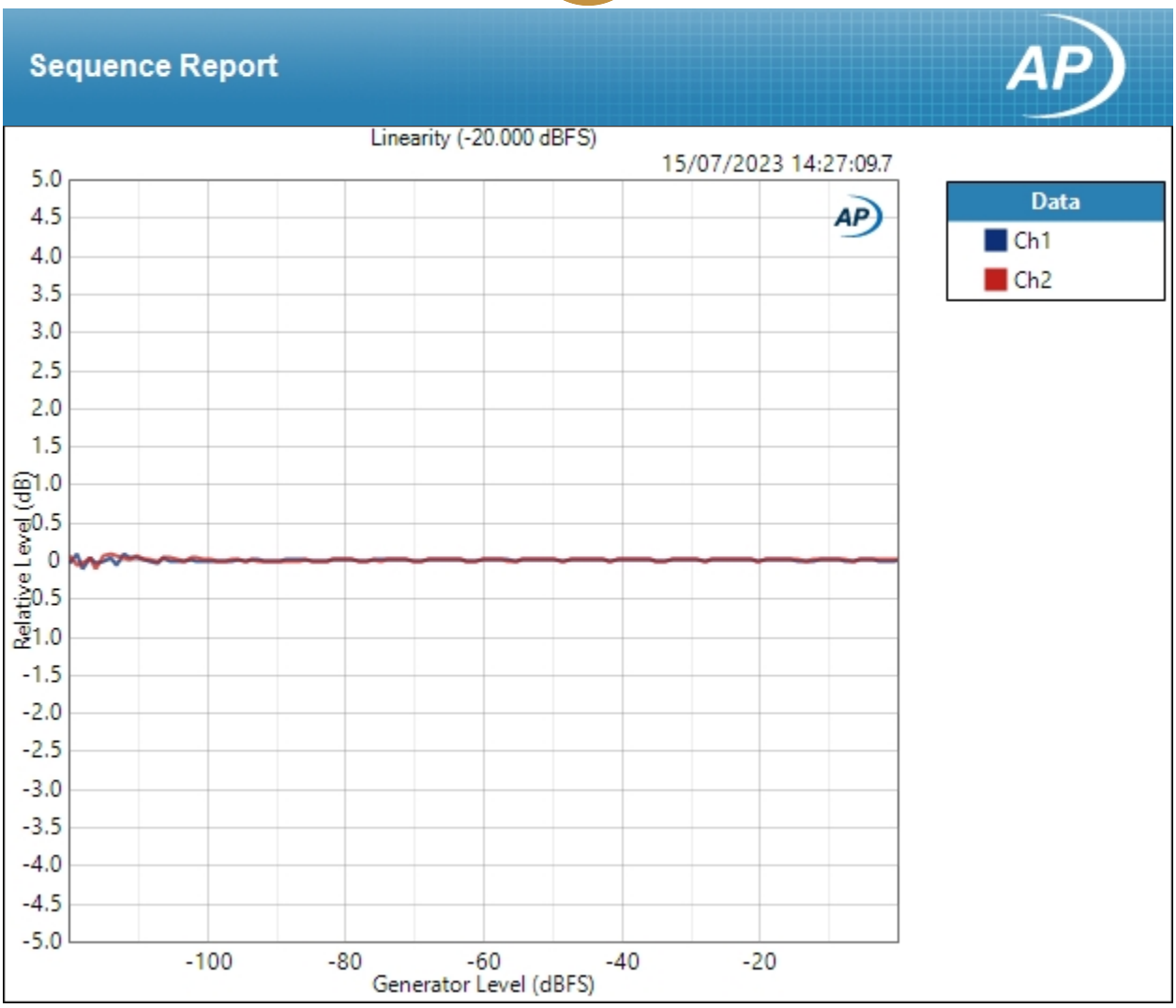
Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : Linearity

Waveform:	Sine
Frequency:	1.00000 kHz
Start Level:	-120.000 dBFS
Stop Level:	-0.000 dBFS
Step Type:	Linear
Number of Points:	124
Step Size:	+0.976 dBFS
Offset:	0.000 D
Selectivity:	1/24 octave
Bandpass Tuning Mode:	Generator Frequency
Measured 1	15/07/2023 14:27:09

Linearity (-20.000 dBFS) (15/07/2023 14:27:09.758)



Linearity (-20.000 dBFS) Parameters

Mode: Normalized at Reference

Relative Level: -20.000 dBFS

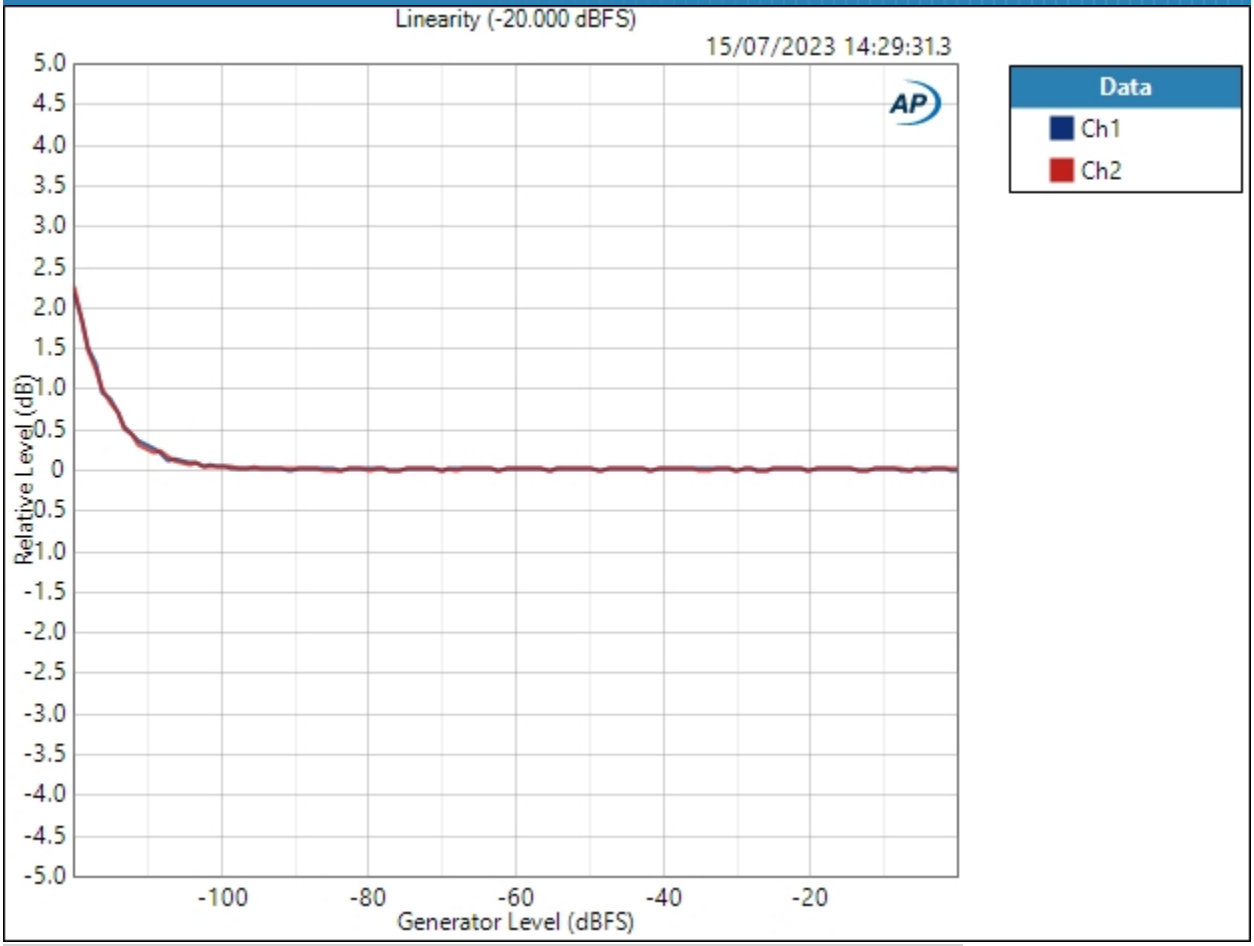
Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : Linearity (No Bandpass)

Waveform:	Sine
Frequency:	1.00000 kHz
Start Level:	-120.000 dBFS
Stop Level:	-0.000 dBFS
Step Type:	Linear
Number of Points:	124
Step Size:	+0.976 dBFS
Offset:	0.000 D
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	Signal Path
Notch Tuning Mode:	Generator Frequency
Measured 1	15/07/2023 14:29:31

Linearity (-20.000 dBFS) (15/07/2023 14:29:31.326)



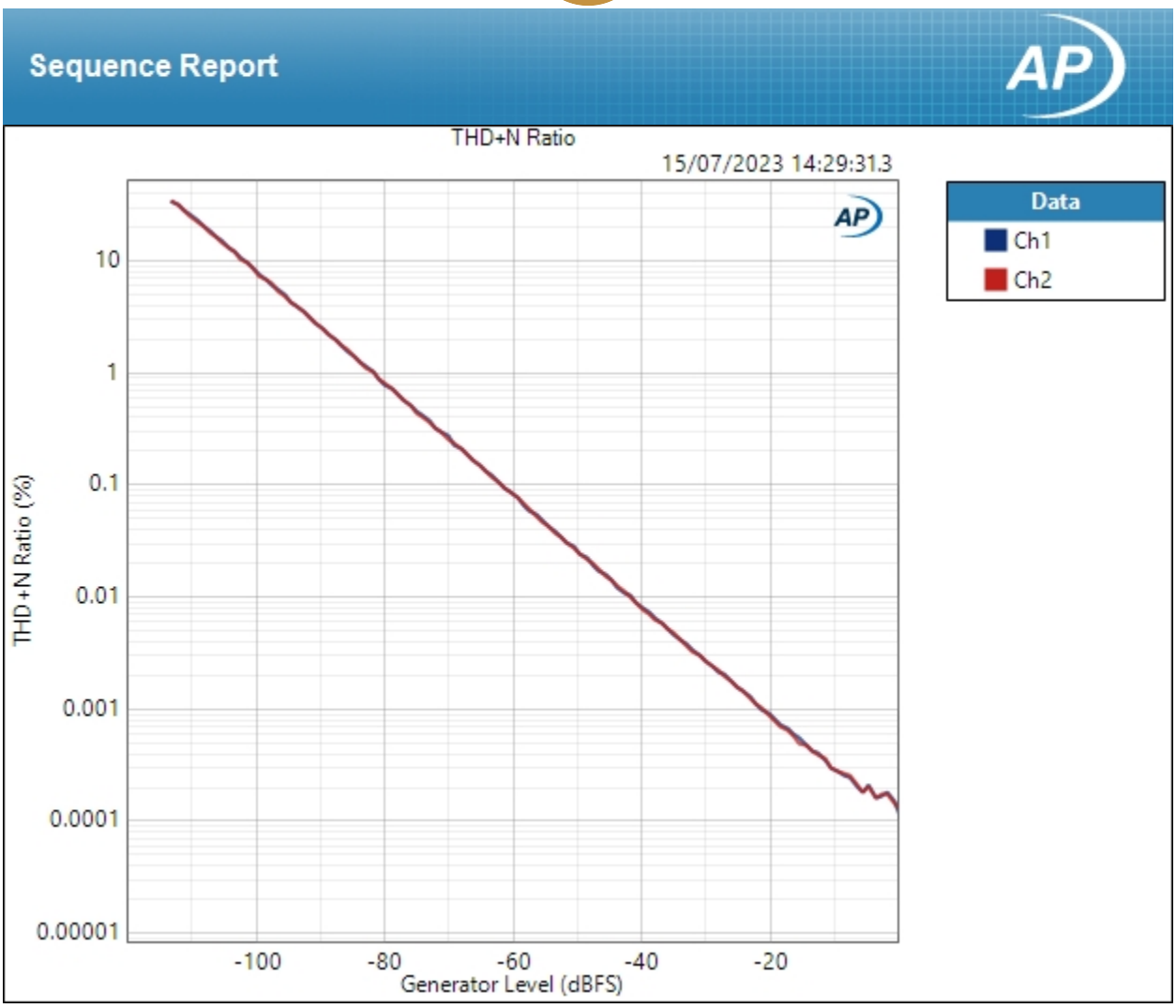
Linearity (-20.000 dBFS) Parameters

Mode: Normalized at Reference

Relative Level: -20.000 dBFS

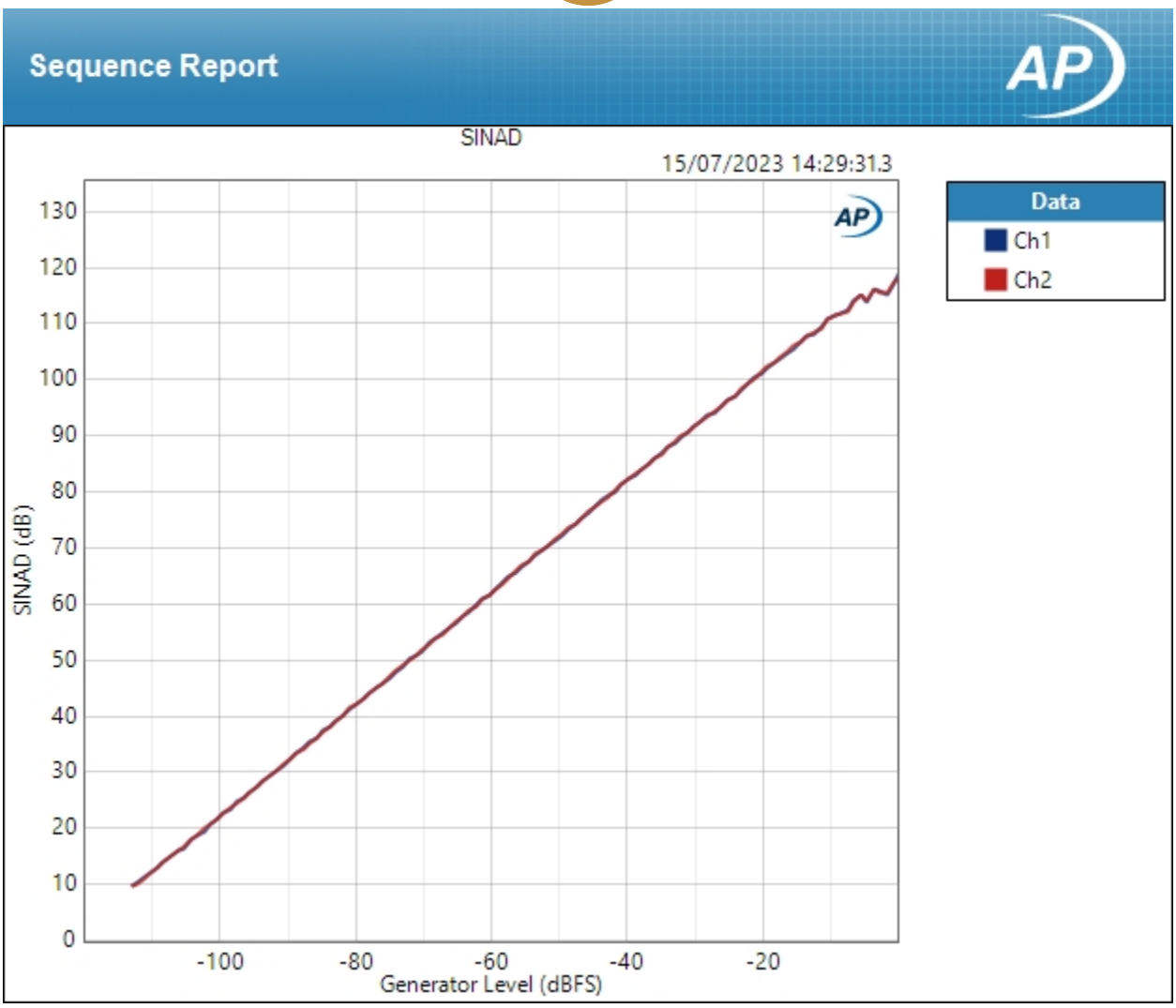
Result: PASSED

THD+N Ratio (15/07/2023 14:29:31.326)



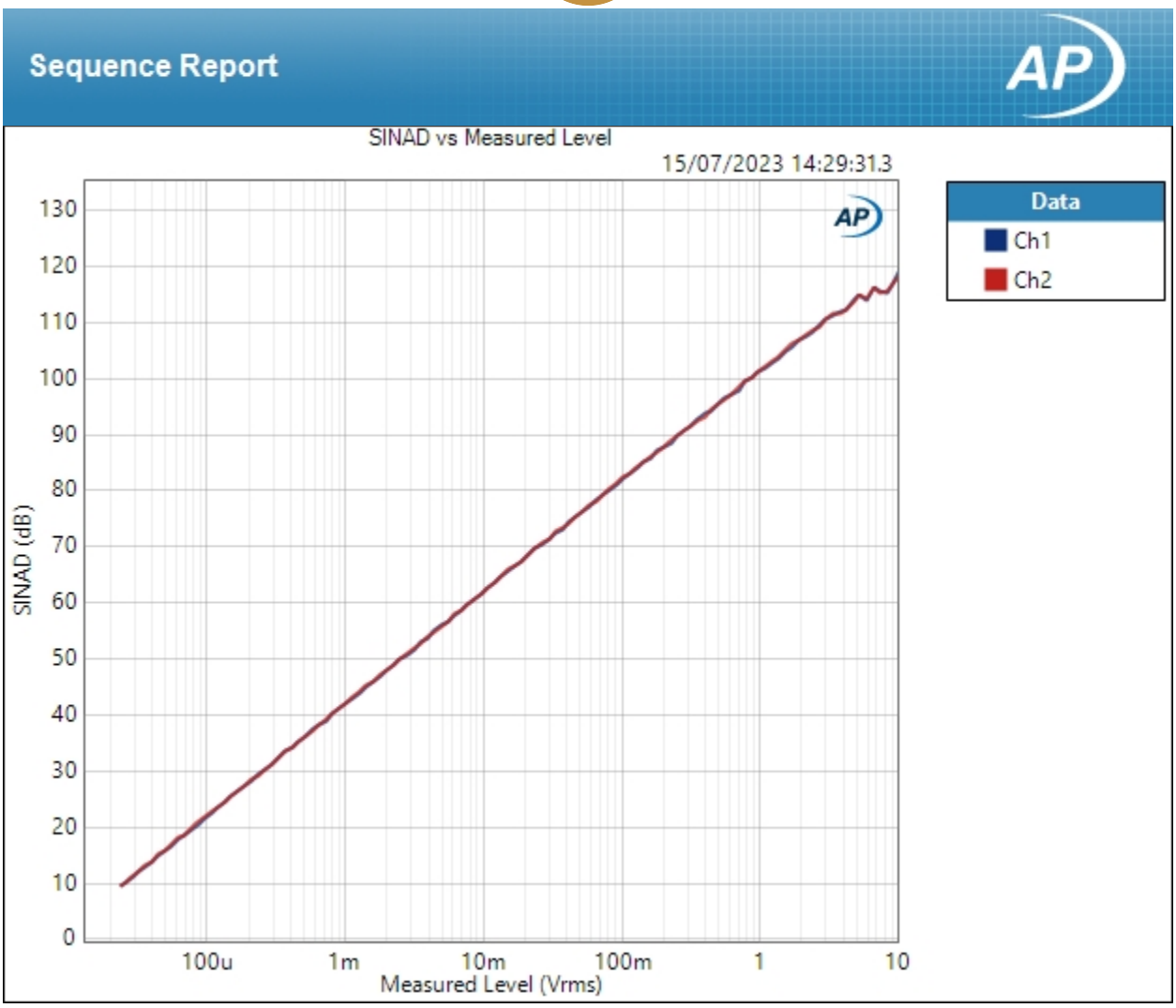
Result: PASSED

SINAD (15/07/2023 14:29:31.326)



Result: PASSED

SINAD vs Measured Level (15/07/2023 14:29:31.326)



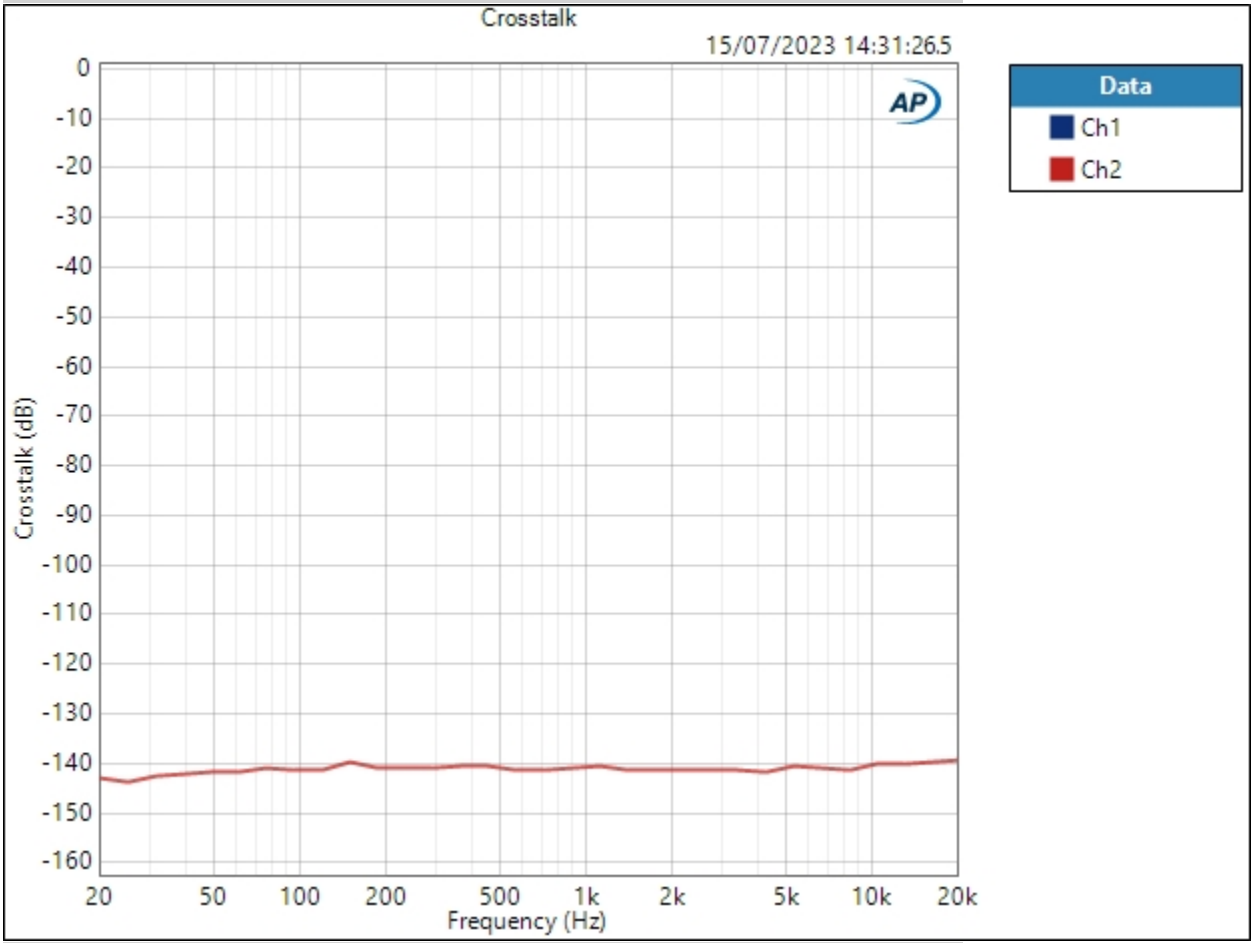
Result: PASSED

Sequence Report

SIG 2 - Main Measurements (44.1khz) : Crosstalk Sweep, One Channel Driven

Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Start Frequency:	20.0000 kHz
Stop Frequency:	20.0000 Hz
Step Type:	Logarithmic
Number of Points:	32
Measured 1	15/07/2023 14:31:26

Crosstalk (15/07/2023 14:31:26.515)



Crosstalk Parameters

Source: Ch1

Result: PASSED

SIG 2 - Main Measurements (44.1khz) : DC Offset (active)

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Delay Time:	400.0 ms
Acquisition Time:	333.0 ms

DC Level (15/07/2023 14:33:28.165)

Ch1 -20.73 uV

Ch2 16.41 uV

SIG 2 - Main Measurements (44.1khz) : DC Offset (idle)

Waveform:	Sine
Generator Level:	-∞ dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Delay Time:	100.0 ms
Acquisition Time:	333.0 ms

DC Level (15/07/2023 14:33:34.466)

Ch1 -91.78 uV

Ch2 77.55 uV

SIG 3 - 44.1khz Jitter : Signap Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Disabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	10.03 Vrms
dBrB:	10.03 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	10.03 Vrms
dBSPL2:	10.03 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL
dBSPL2 Calibrator Level:	50.000 dBSPL

dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

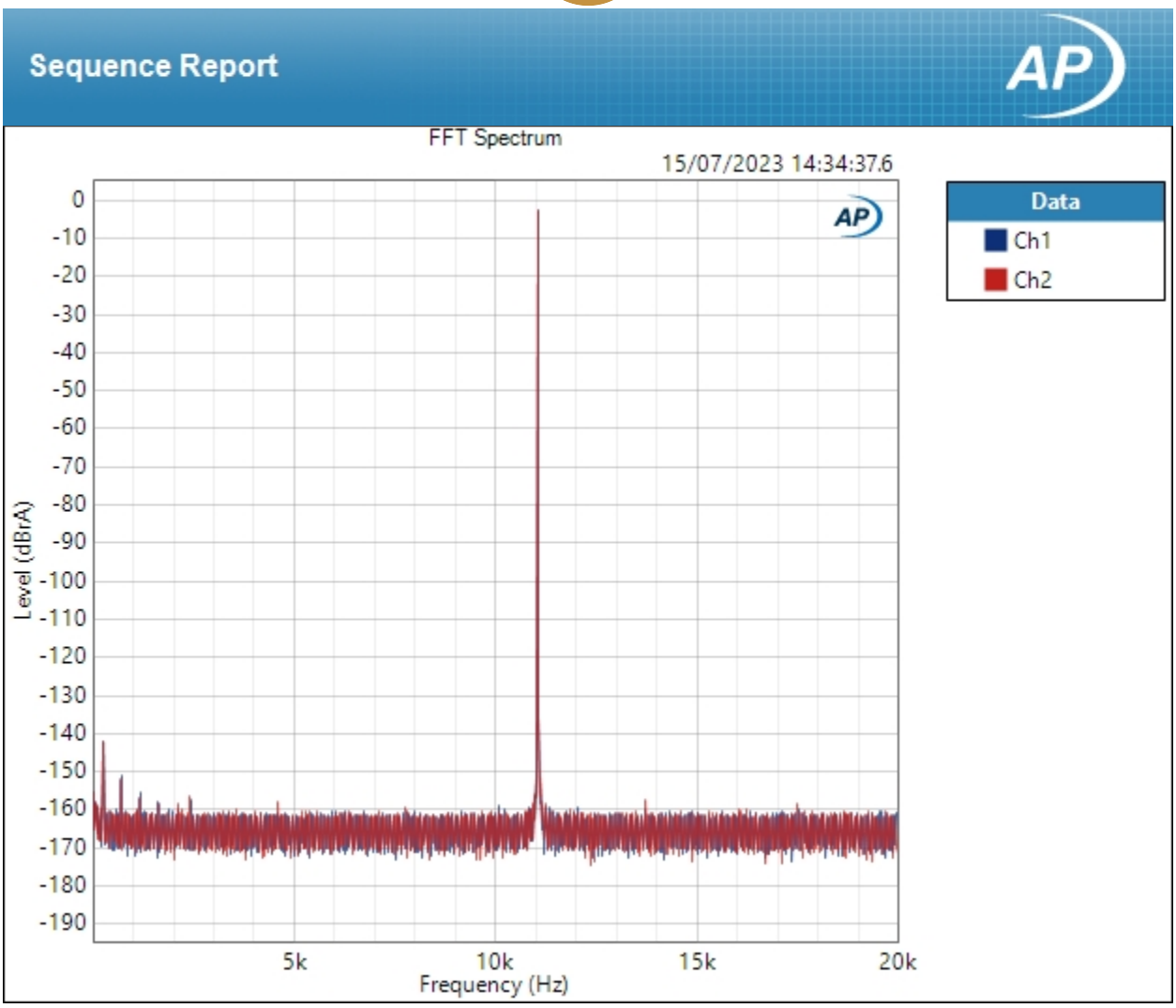
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

Sequence Report

SIG 3 - 44.1khz Jitter : 44.1khz J-Test (Jitter)

Waveform:	J-test_44k_PCM24_LR.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:34:37
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	1248000
Averaging:	Power
Averages:	8
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:34:37.660)



Result: PASSED

SIG 4 - 48khz Jitter : Signap Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	48.0000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - AES17 (20 kHz)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Disabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	10.03 Vrms
dBrB:	10.03 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	10.03 Vrms
dBSPL2:	10.03 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL
dBSPL2 Calibrator Level:	50.000 dBSPL

dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

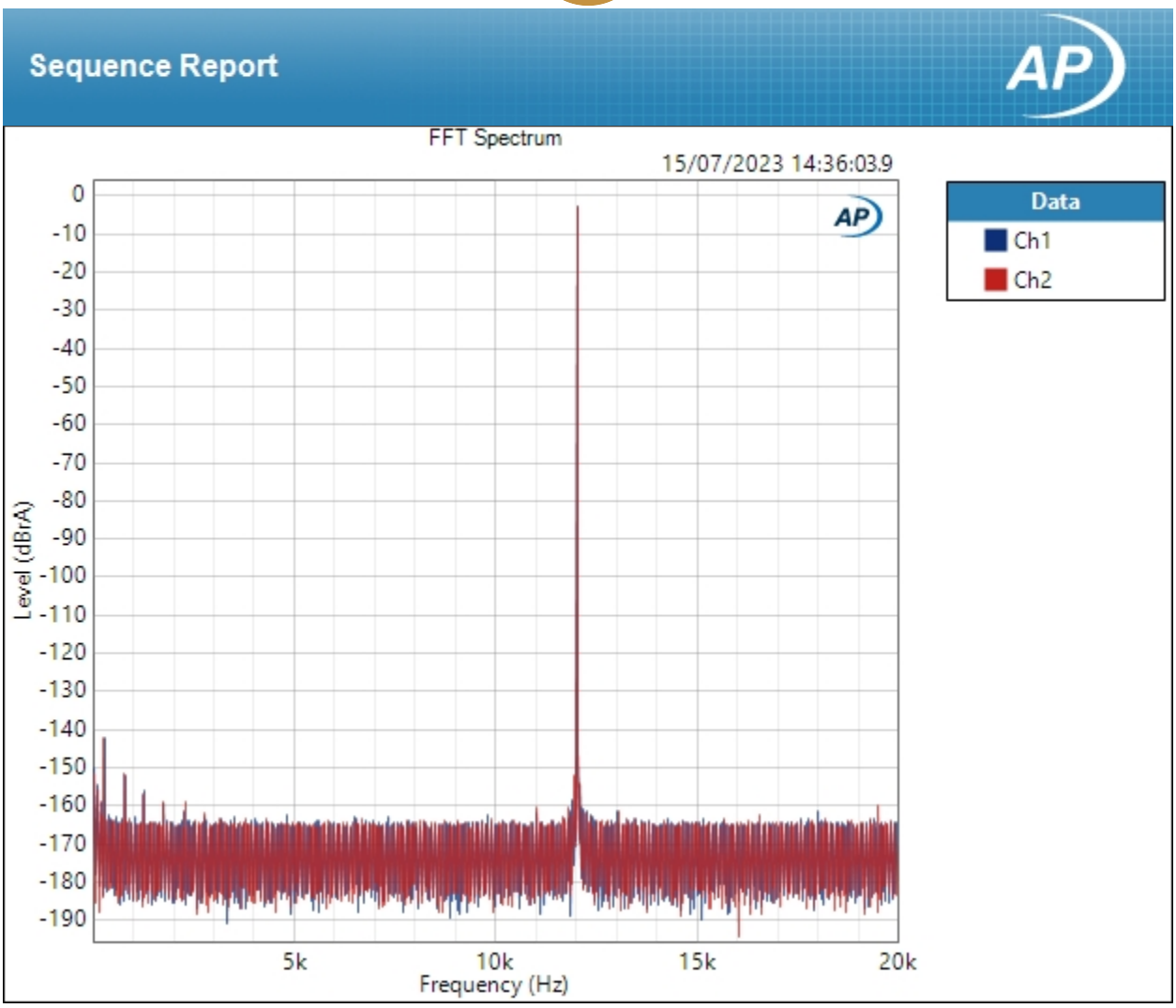
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

Sequence Report

SIG 4 - 48khz Jitter : 48khz J-Test (Jitter)

Waveform:	J-test_48k_PCM24_LR.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:36:03
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	1248000
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:36:03.937)



Result: PASSED

SIG 5 - Bandwidth (192khz) : Signal Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	192.000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Custom (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	10.03 Vrms
dBrB:	10.03 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	10.03 Vrms
dBSPL2:	10.03 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL
dBSPL2 Calibrator Level:	50.000 dBSPL

dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

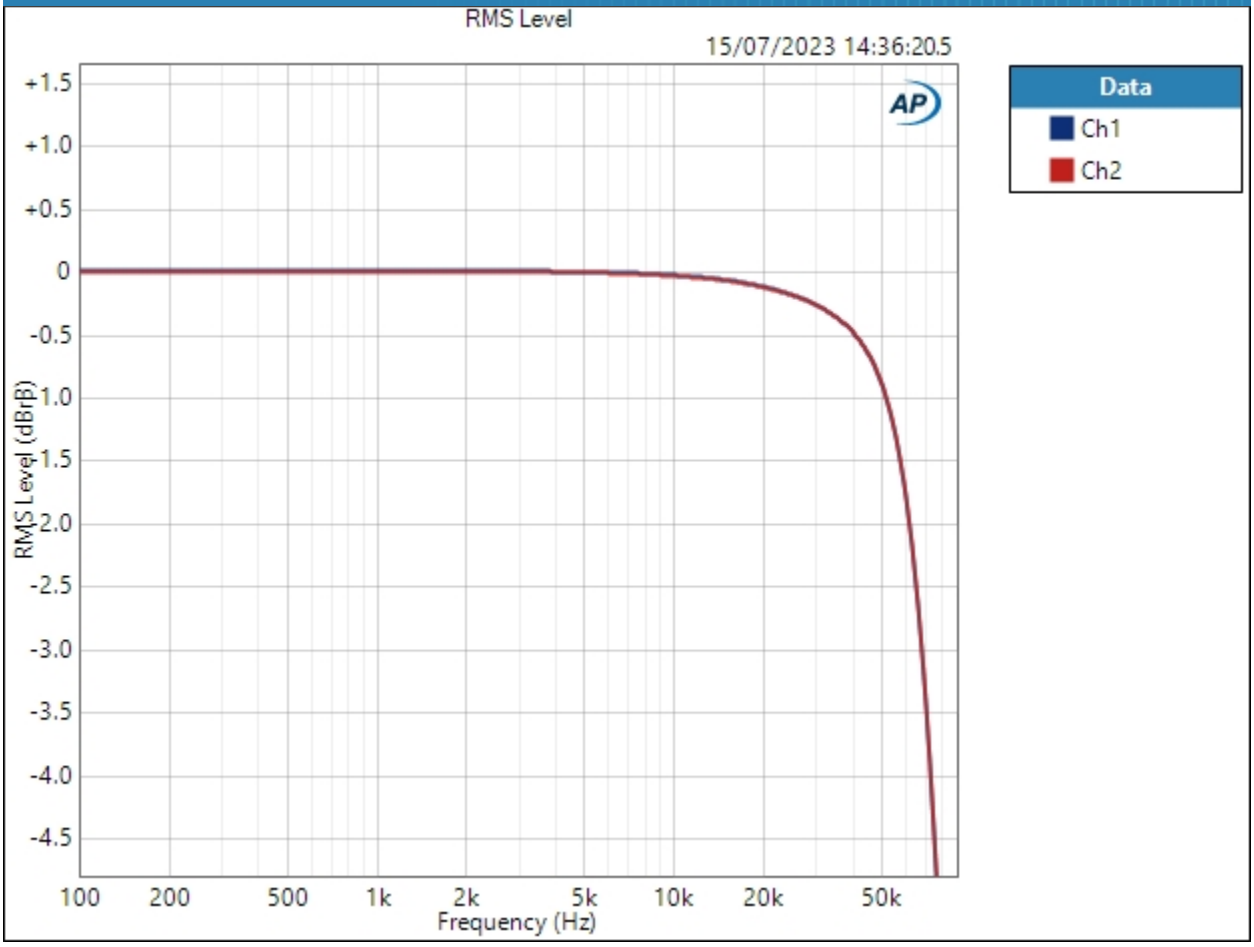
Sequence Report

SIG 5 - Bandwidth (192khz) : 90khz Bandwidth

Start Frequency:	20.0000 Hz
Stop Frequency:	90.0000 kHz
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
EQ:	None
Pre-Sweep:	500.0 ms
Sweep:	5.000 s
Extend Acquisition By:	500.0 ms
Secondary Source:	None
Measured 1	15/07/2023 14:36:20

RMS Level (15/07/2023 14:36:20.535)

Sequence Report



Result: PASSED

SIG 6 - THD and Phase vs Frequency : Signal Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Custom (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	10.03 Vrms
dBrB:	10.03 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	10.03 Vrms
dBSPL2:	10.03 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL
dBSPL2 Calibrator Level:	50.000 dBSPL

dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

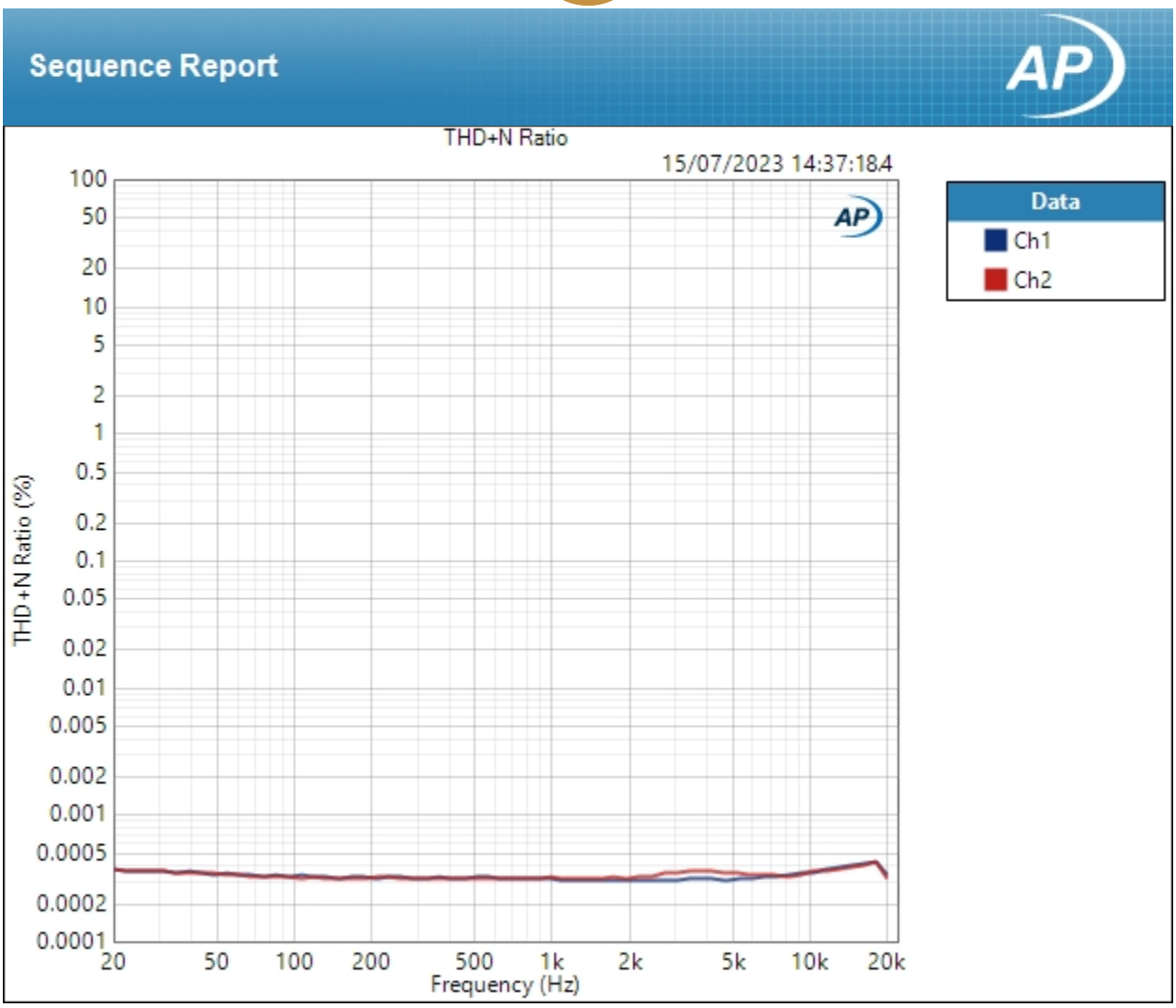
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

Sequence Report

SIG 6 - THD and Phase vs Frequency : THD+N vs frequency (AES 40khz filter)

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
EQ:	None
Start Frequency:	22.0059 kHz
Stop Frequency:	20.0000 Hz
Step Type:	Logarithmic
Number of Points:	64
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Phase Ref Channel:	Ch1
Measured 1	15/07/2023 14:37:18

THD+N Ratio (15/07/2023 14:37:18.426)



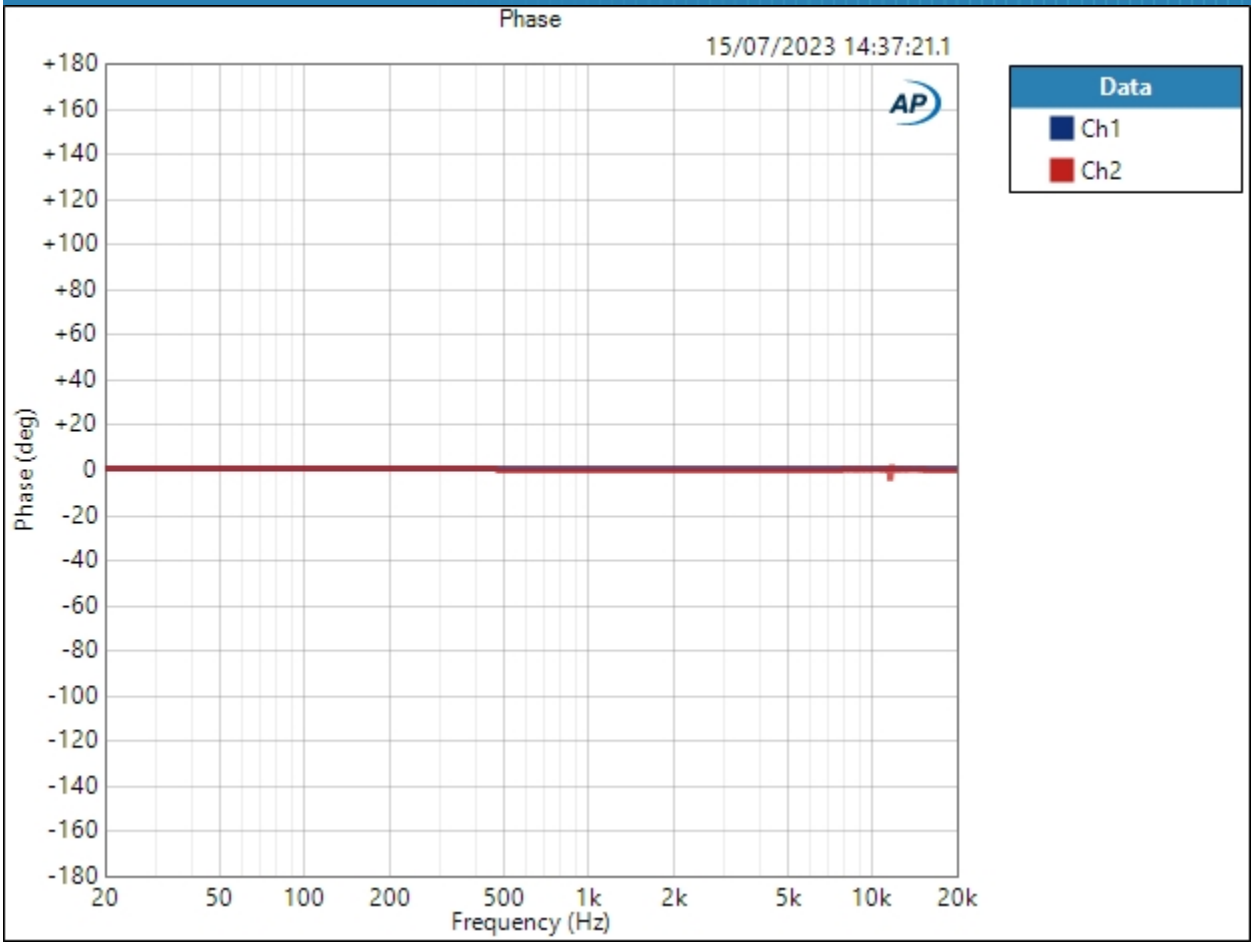
Result: PASSED

Sequence Report

SIG 6 - THD and Phase vs Frequency : Interchannel Phase and Group Delay

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	-20.000 dBFS
DC Offset:	0.000 D
EQ:	None
Pre-Sweep:	0.000 s
Sweep:	350.0 ms
Measured 1	15/07/2023 14:37:21
Step Type:	Log Chirp
Extend Acquisition By:	50.00 ms
Crosstalk Type:	High speed
Secondary Source:	None

Phase (15/07/2023 14:37:21.124)



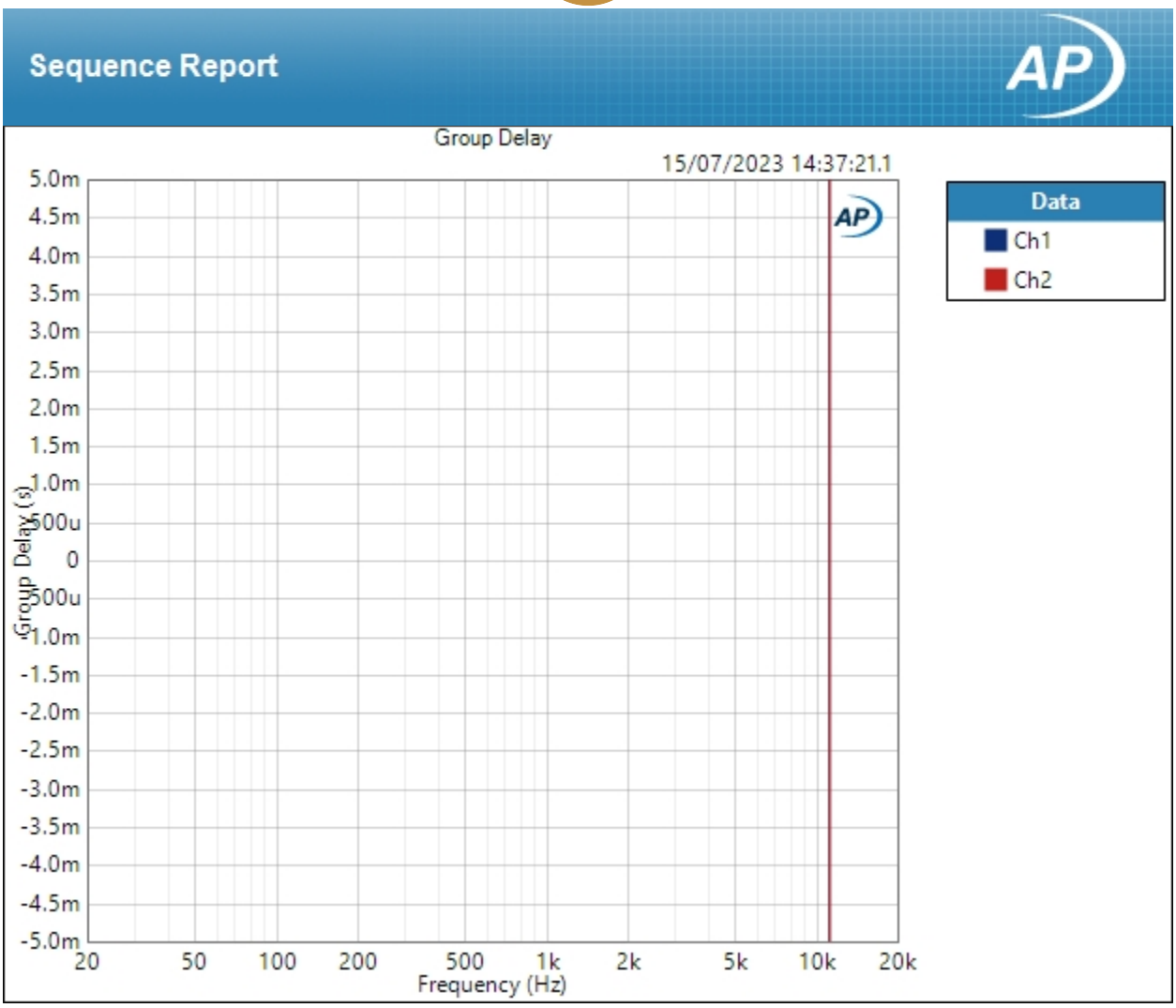
Phase Parameters

Mode: Relative to Ch1

Result: PASSED

Group Delay (15/07/2023 14:37:21.124)

Sequence Report



Result: PASSED

SIG 7 - Wideband and Intersample Overs : Signal Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 1M (2.496 MHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Disabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	10.03 Vrms
dBrB:	10.03 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	10.03 Vrms
dBSPL2:	10.03 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL
dBSPL2 Calibrator Level:	50.000 dBSPL

dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

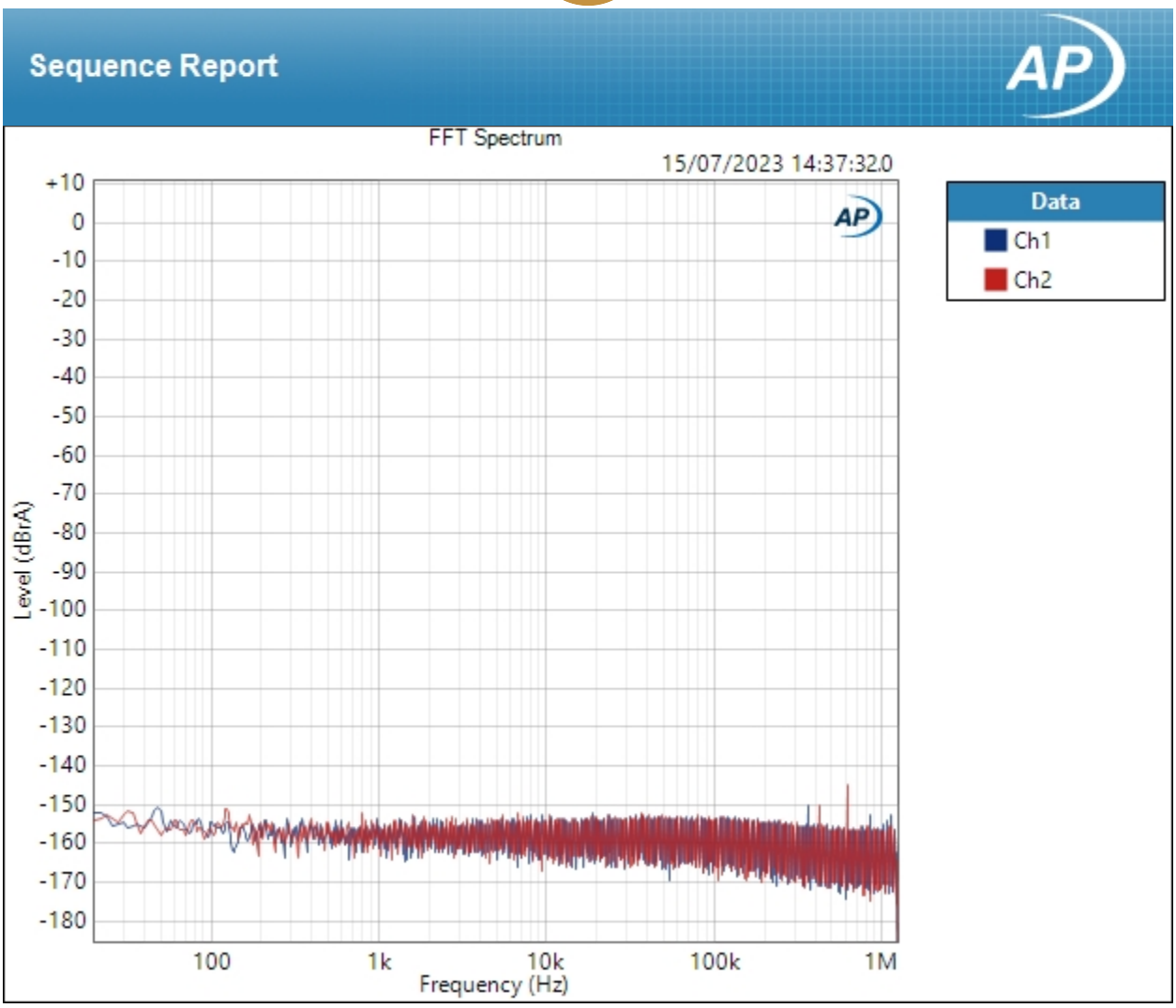
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

Sequence Report

SIG 7 - Wideband and Intersample Overs : Wideband idle noise

Waveform:	Sine
Generator Level:	-∞ dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:37:32
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	1248000
Averaging:	Power
Averages:	6
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:37:32.076)



Result: PASSED

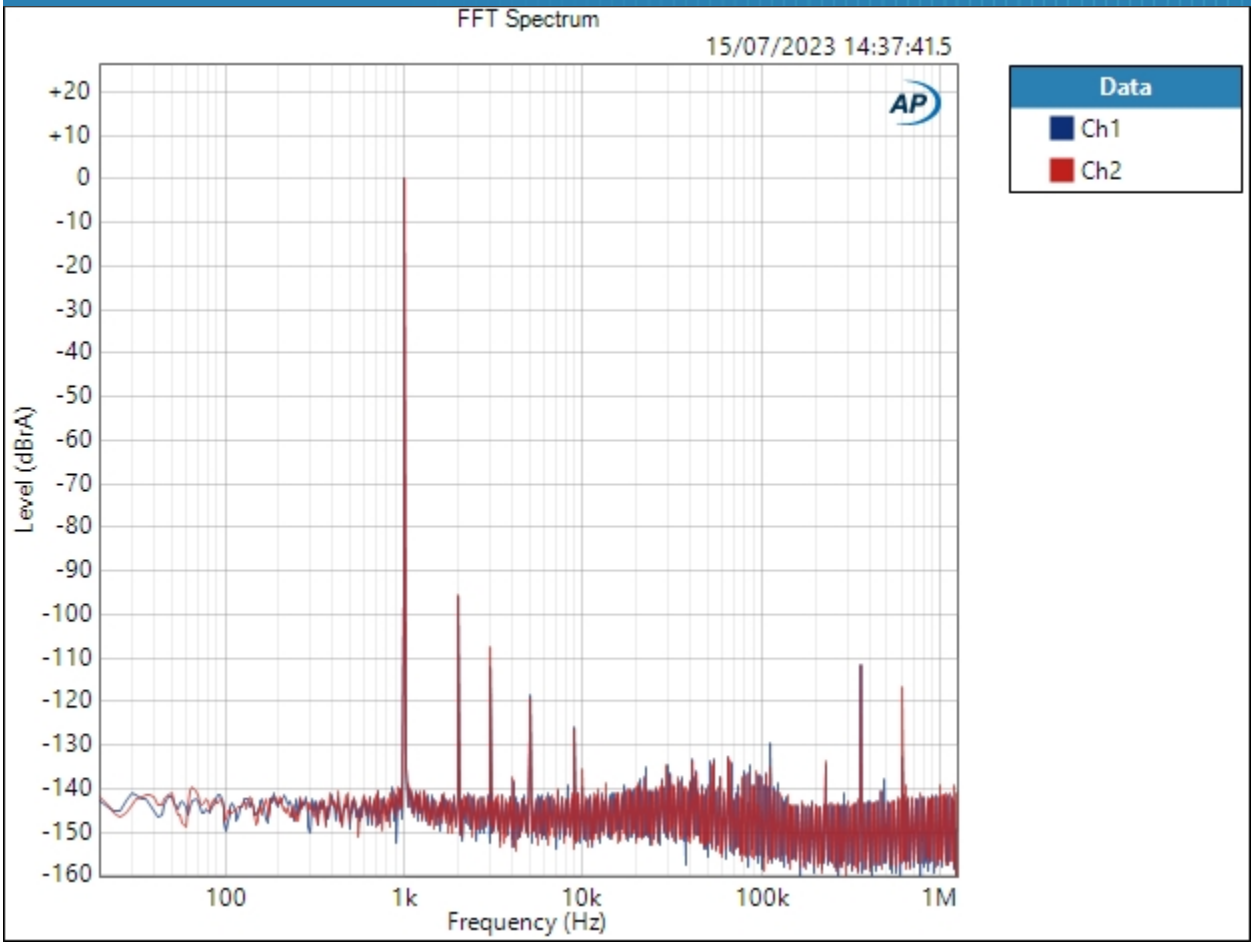
Sequence Report

SIG 7 - Wideband and Intersample Overs : 1khz 0dbfs wideband

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:37:41
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	1248000
Averaging:	Power
Averages:	6
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:37:41.584)

Sequence Report



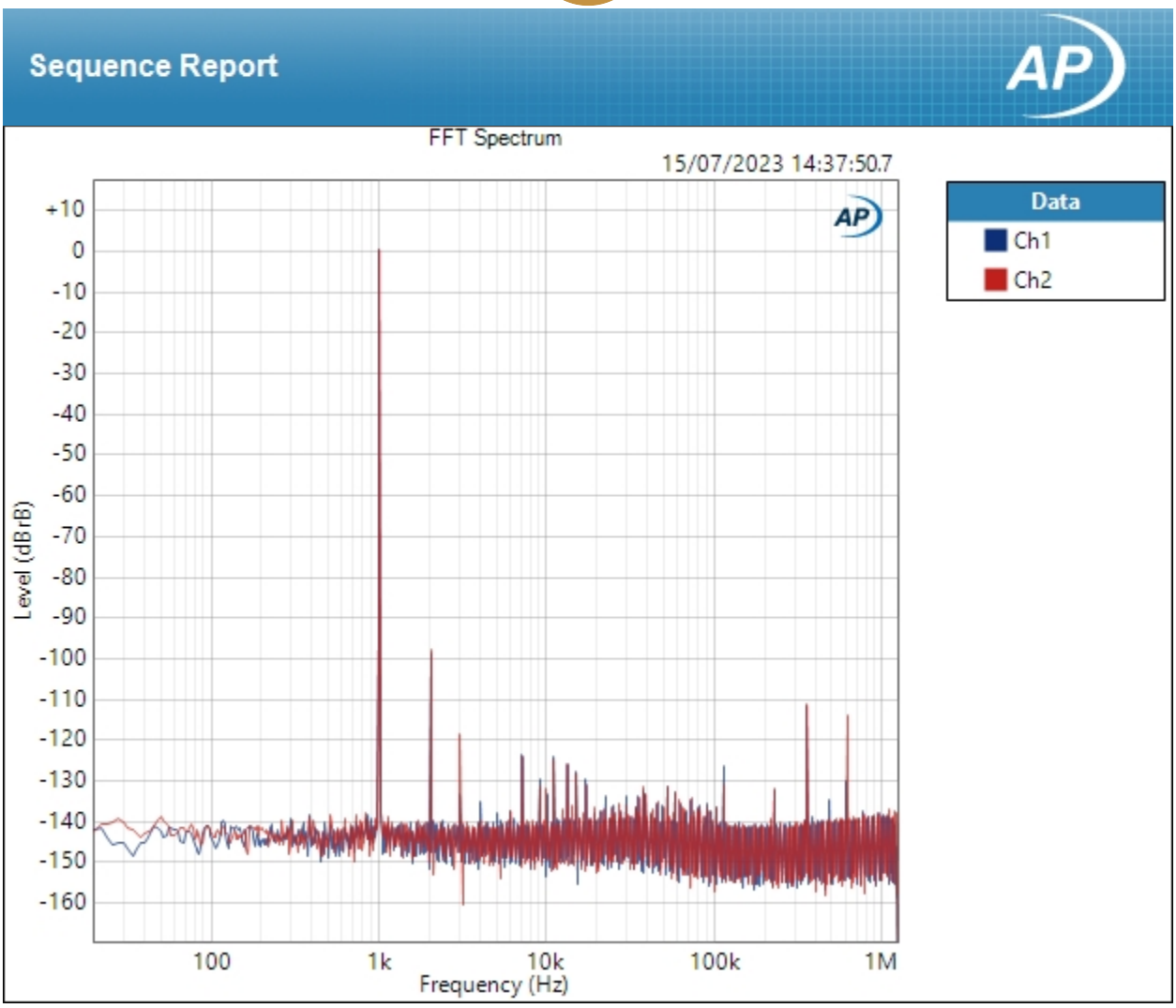
Result: PASSED

Sequence Report

SIG 7 - Wideband and Intersample Overs : 1khz -3dbfs wideband

Waveform:	Sine
Generator Level:	-3.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	15/07/2023 14:37:50
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	1248000
Averaging:	Power
Averages:	6
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:37:50.720)



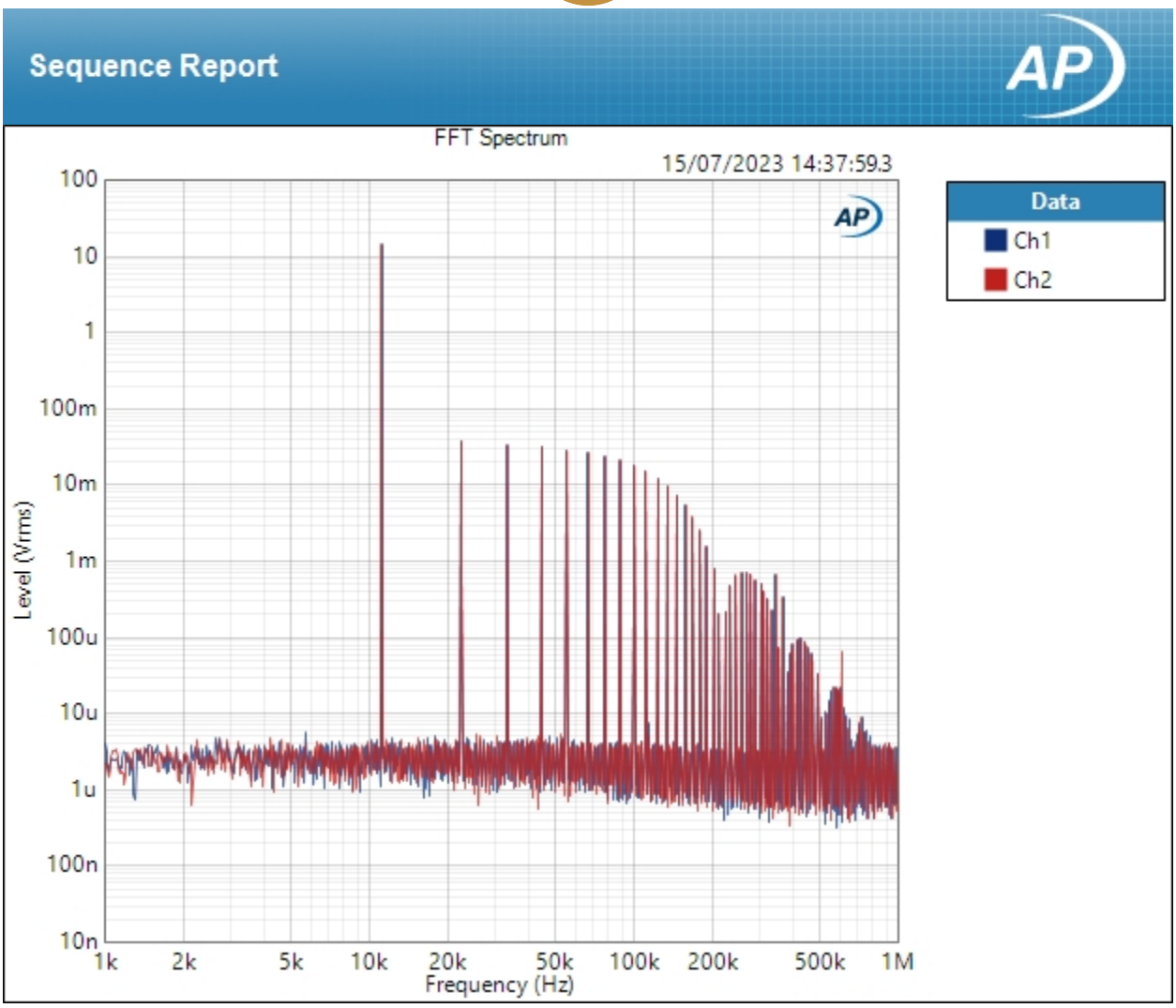
Result: PASSED

Sequence Report

SIG 7 - Wideband and Intersample Overs : Intersample Overs (+3dB)

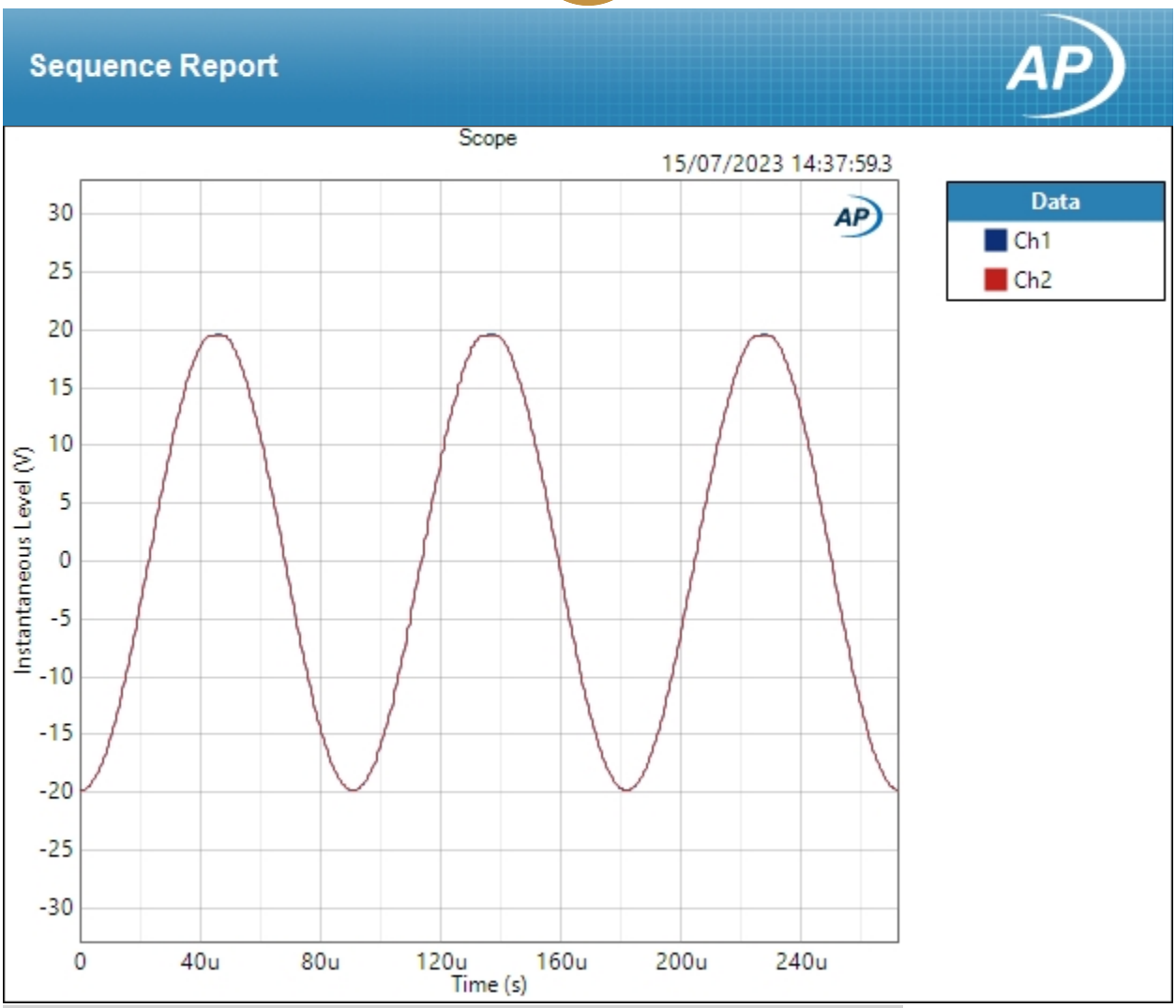
Waveform:	Intersample overs +3dB.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:37:59
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	1.000 s
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	4
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:37:59.322)



Result: PASSED

Scope (15/07/2023 14:37:59.322)



Scope Parameters

Interpolated: On

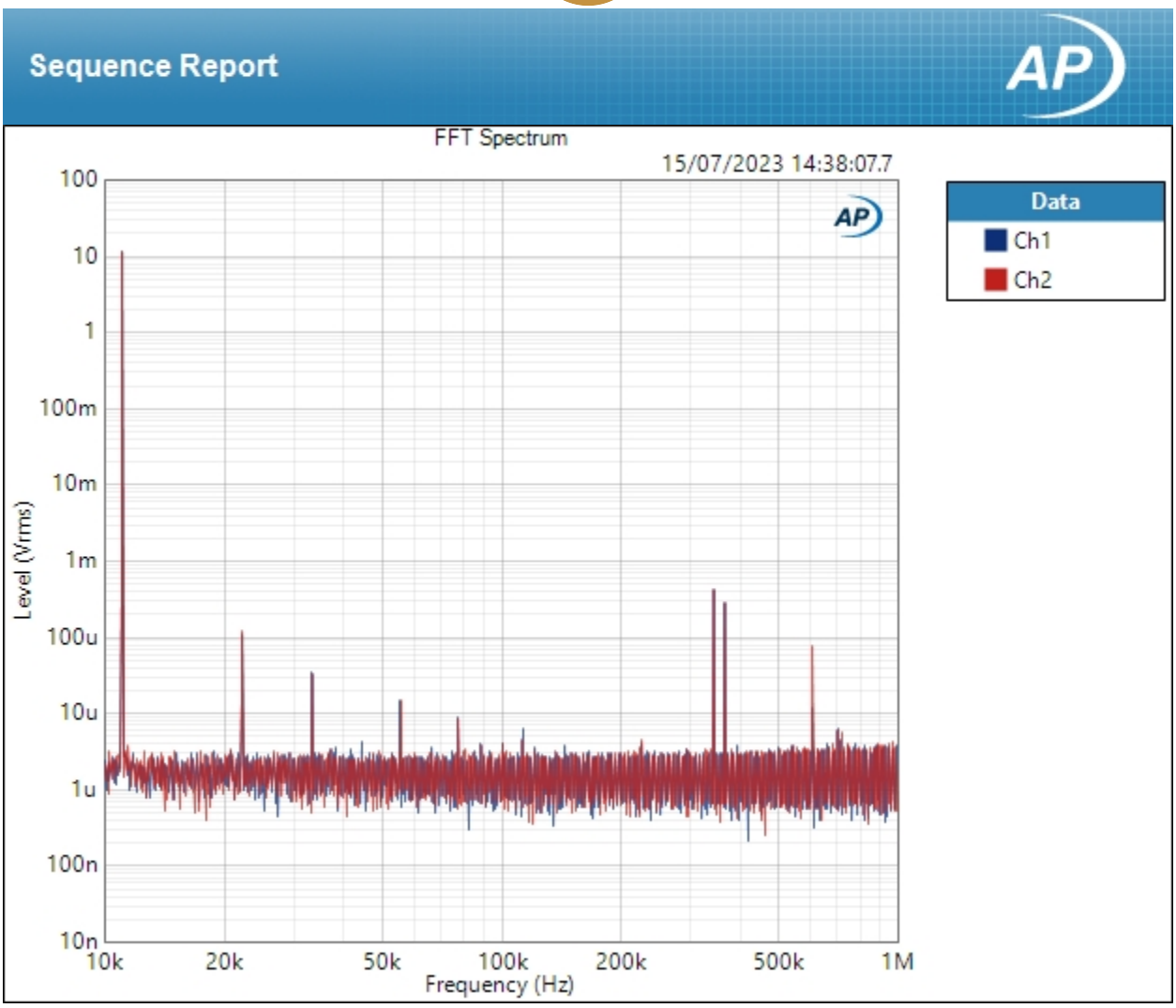
Result: PASSED

Sequence Report

SIG 7 - Wideband and Intersample Overs : Intersample Overs (+1dB)

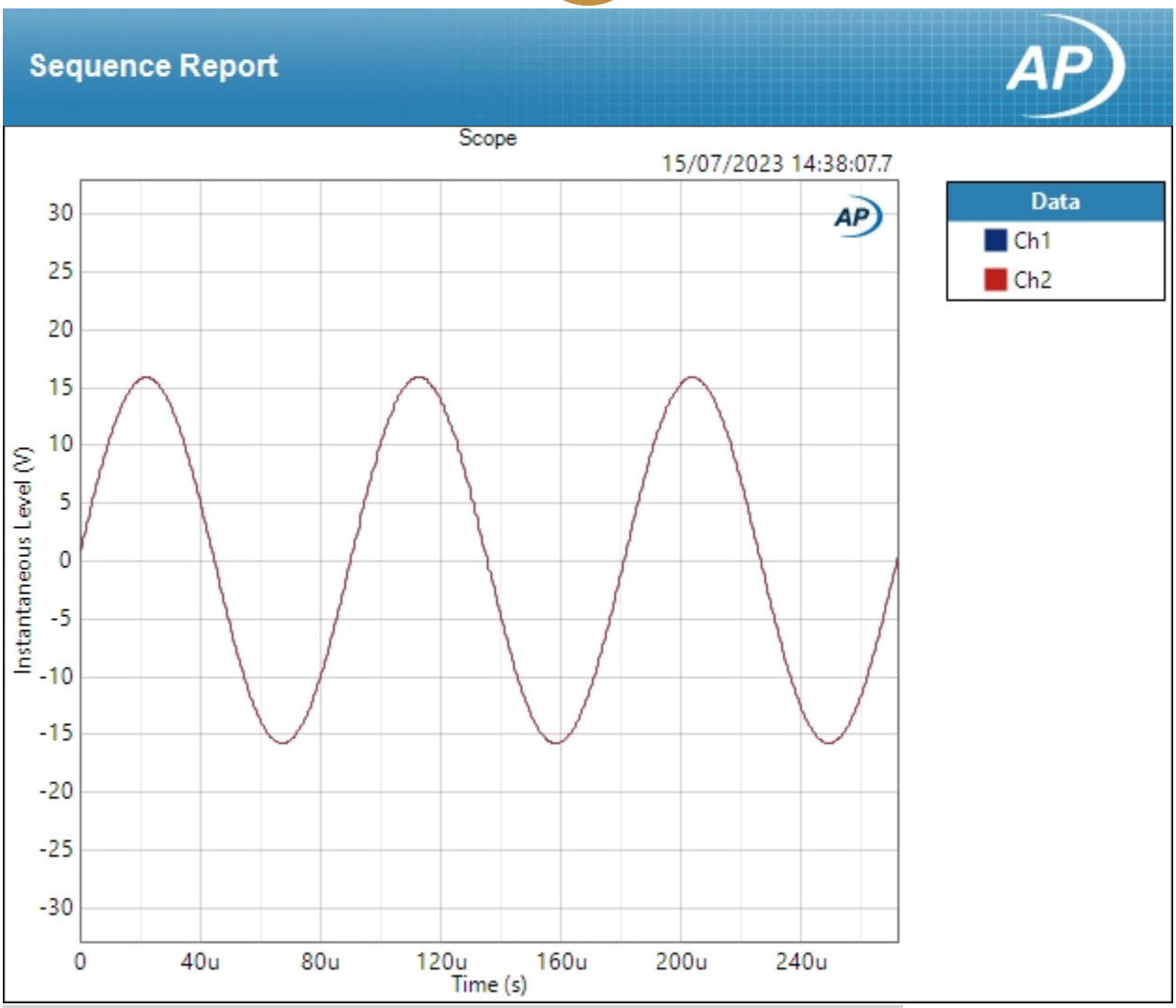
Waveform:	Intersample Overs +1dB.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:38:07
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	1.000 s
Input Bandwidth:	Use Signal Path
FFT Length:	262144
Averaging:	Power
Averages:	4
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (15/07/2023 14:38:07.745)



Result: PASSED

Scope (15/07/2023 14:38:07.745)



Scope Parameters

Interpolated: On

Result: PASSED

SIG 8 - Multitone : Signal Path Setup

Output Connector:	ASIO
Asio Device:	Ferrum USB Audio
Scaling Mode:	Digital
Output Sample Rate:	192.000 kHz
Output Latency:	Auto
Buffer Size:	2048
Clock Source:	Computer
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Custom (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	-20.000 dBFS
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	4.160 Vrms
dBrB:	4.160 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	3.000 dB
dBSPL1:	4.160 Vrms
dBSPL2:	10.04 Vrms
dBSPL1 Calibrator Level:	60.000 dBSPL
dBSPL2 Calibrator Level:	21.500 dBSPL

dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• 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

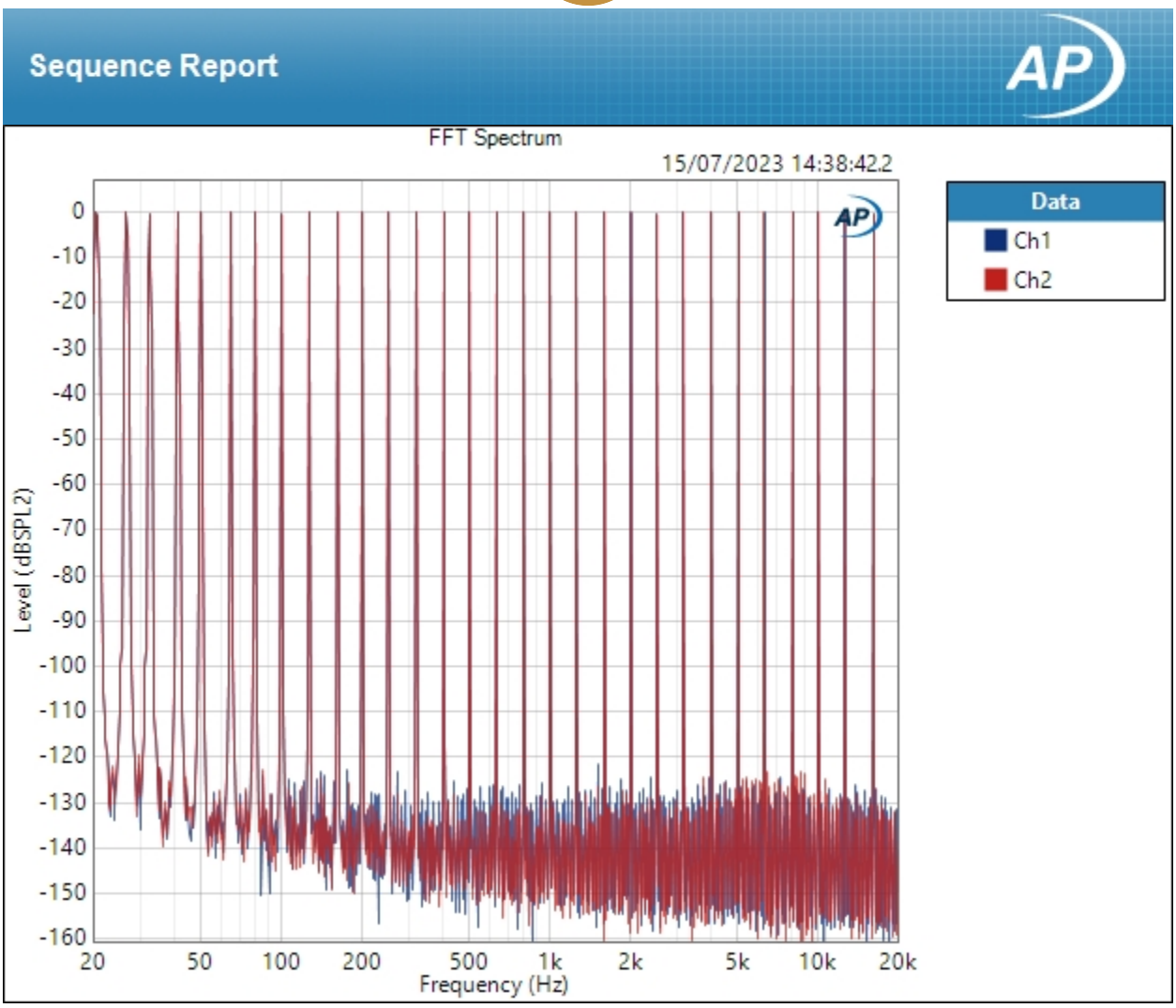
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

Sequence Report

SIG 8 - Multitone : 32 Tone Test

Waveform:	APx555 Multitone 32 192 khz 24 bit.wav
Bit Exact:	True
Start Offset (sec):	0.000 s
Secondary Source:	None
Measured 1	15/07/2023 14:38:42
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	1248000
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

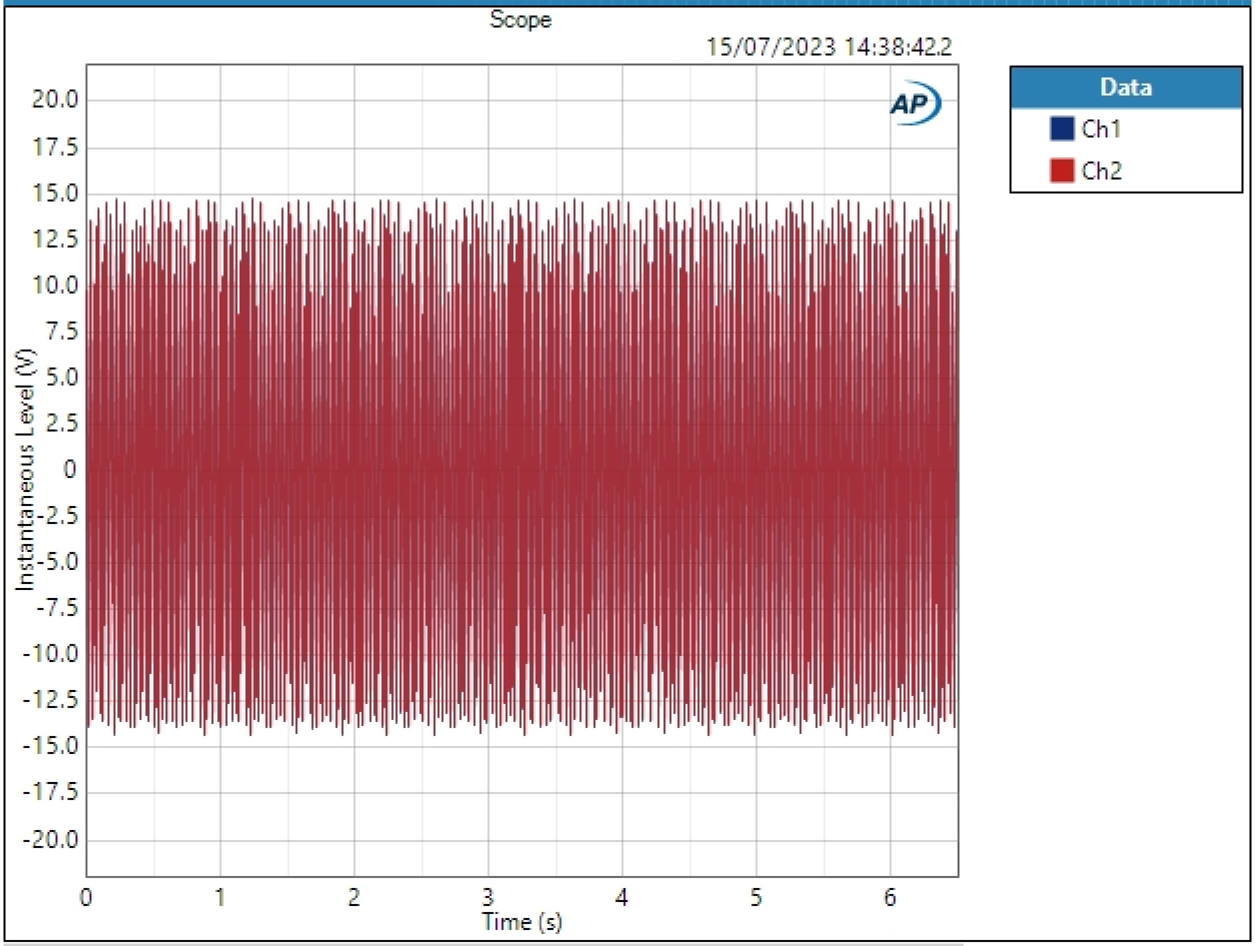
FFT Spectrum (15/07/2023 14:38:42.279)



Result: PASSED

Scope (15/07/2023 14:38:42.279)

Sequence Report

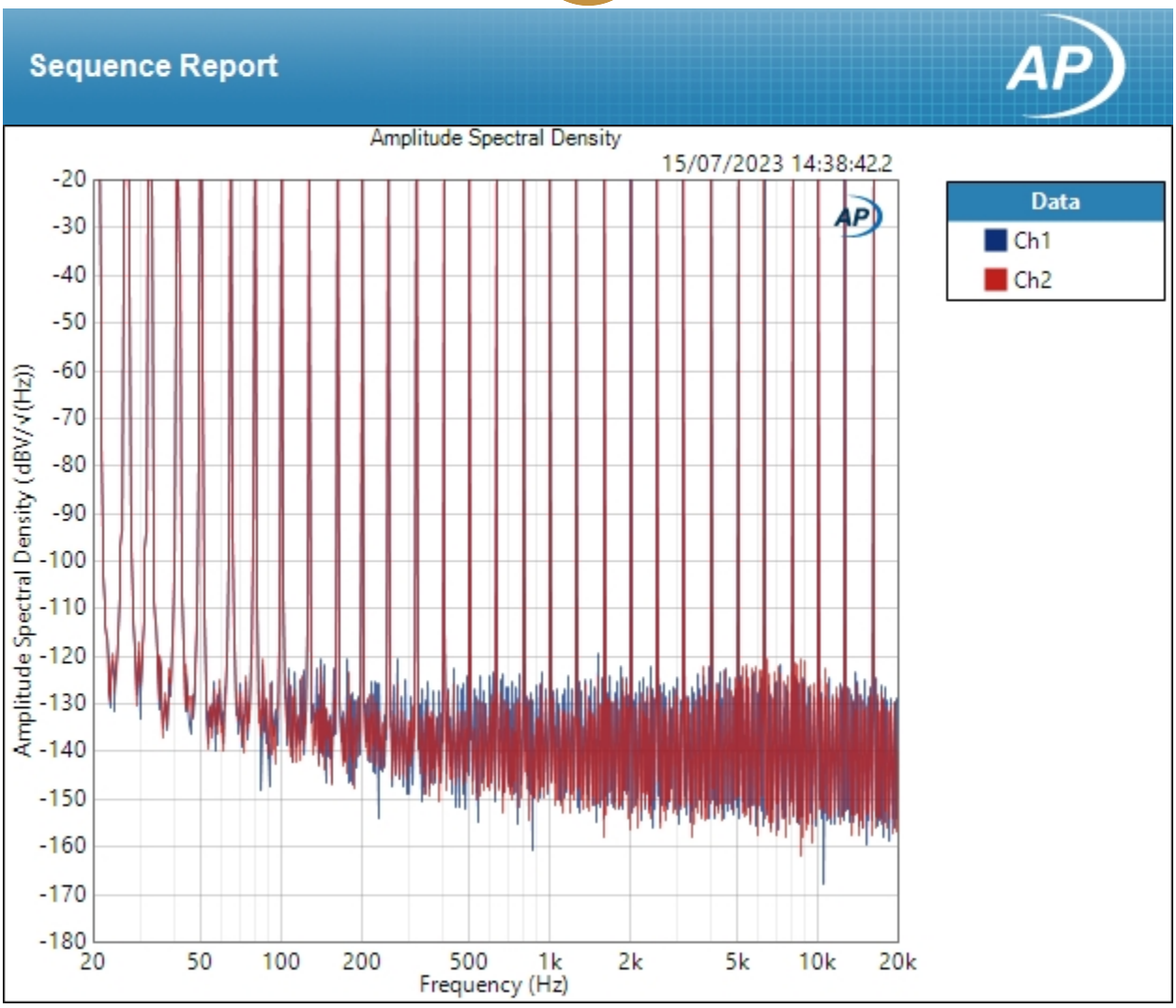


Scope Parameters

Interpolated: On

Result: PASSED

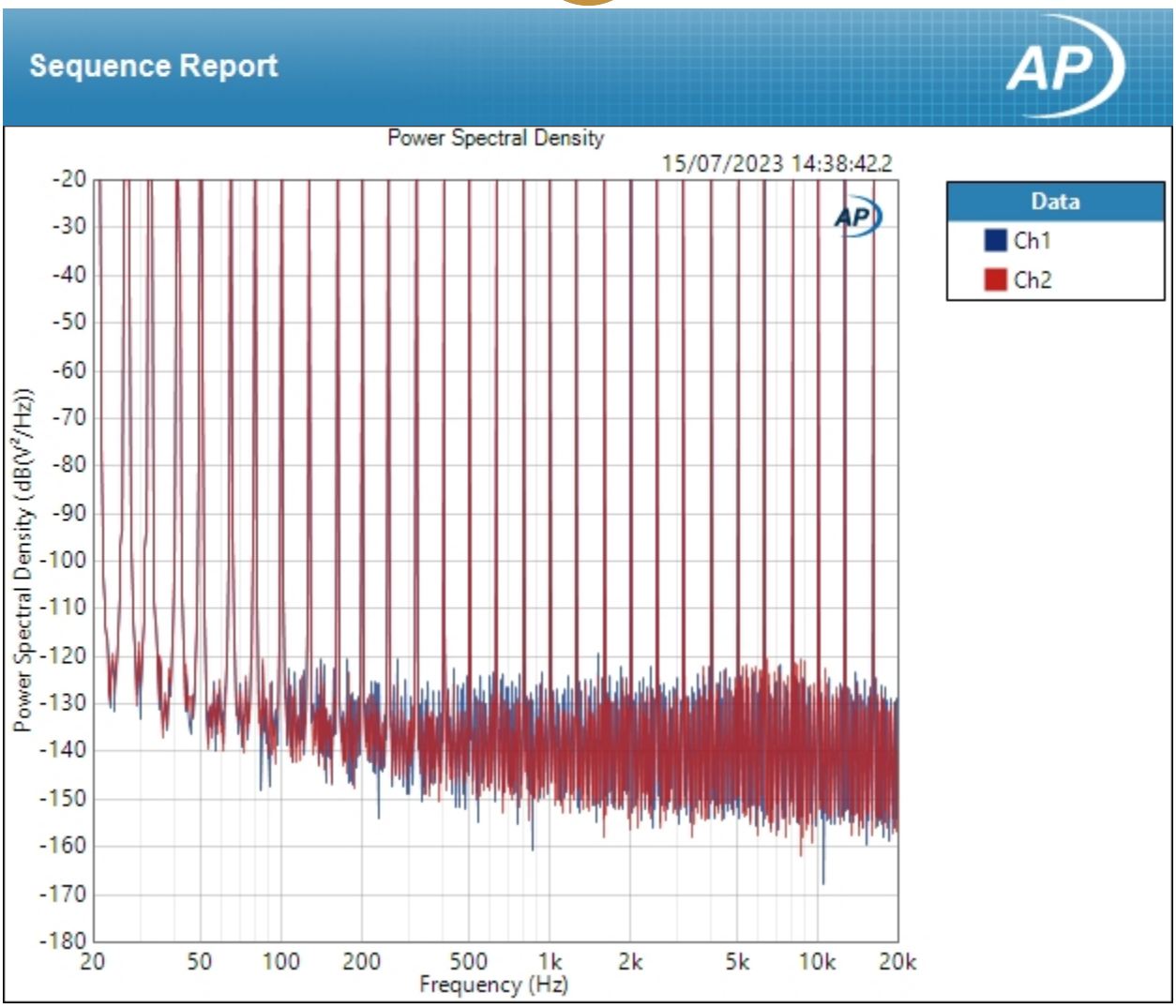
Amplitude Spectral Density (15/07/2023 14:38:42.279)



Result: PASSED

Power Spectral Density (15/07/2023 14:38:42.279)

Sequence Report



Result: PASSED