Schiit Amp APx555 Standard Test Suite: Mjolnir 3

Notes:

This is a test of a representative sample. If you have measurements that differ significantly from these, first check your analyzer and setup carefully, and (ideally) see if you can replicate the results on another analyzer. If the odd results persist, contact info@schiit.com so we can have a look.

Summary

300 Ohm Low Gain SE Class A	
Level and Gain	PASSED
DC Level	PASSED
Signal Analyzer	PASSED
Frequency Response	PASSED
Signal to Noise Ratio	PASSED
THD+N	PASSED
IMD Level Sweep (CCIF)	PASSED
IMD Frequency Sweep (CCIF)	PASSED
Crosstalk, One Channel Undriven	PASSED
Stepped Level Sweep	PASSED
300 Ohm High Gain SE Class A	
Level and Gain	PASSED
DC Level	PASSED
Signal Analyzer	PASSED
Frequency Response	PASSED
Signal to Noise Ratio	PASSED
THD+N	PASSED
IMD Level Sweep (CCIF)	PASSED
IMD Frequency Sweep (CCIF)	PASSED
Crosstalk, One Channel Undriven	PASSED
Stepped Level Sweep	PASSED
300 Ohm High Gain Push Pull Class A	
Level and Gain	PASSED
DC Level	PASSED
Signal Analyzer	PASSED
Frequency Response	PASSED
Signal to Noise Ratio	PASSED
THD+N	PASSED
IMD Level Sweep (CCIF)	PASSED
IMD Frequency Sweep (CCIF)	PASSED
Crosstalk, One Channel Undriven	PASSED
Stepped Level Sweep	PASSED
300 Ohm High Gain Feedback Class A	

Level and Gain	PASSED
DC Level	PASSED
Signal Analyzer	PASSED
Frequency Response	PASSED
Signal to Noise Ratio	PASSED
THD+N	PASSED
IMD Level Sweep (CCIF)	PASSED
IMD Frequency Sweep (CCIF)	PASSED
Crosstalk, One Channel Undriven	PASSED
Stepped Level Sweep	PASSED

32 Ohm Low Gain PP Feedback Class A

Level and Gain	PASSED
DC Level	PASSED
Signal Analyzer	PASSED
Frequency Response	PASSED
Signal to Noise Ratio	PASSED
THD+N	PASSED
IMD Level Sweep (CCIF)	PASSED
IMD Frequency Sweep (CCIF)	PASSED
Stepped Level Sweep	PASSED

Sequence Result:

Sequence Result: PASSED

APx Instrument

Instrument ID:	11571
Calibration Date:	3/23/2021
APx Version:	6.0.2.600.149330

300 Ohm Low Gain SE Class A : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	300 ohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• 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
Analog Input	
dBrA:	1.000 Vrms
dBrB:	1.000 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.

• 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

300 Ohm Low Gain SE Class A : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (8/1/2023 11:43:53.339 AM)

Ch1 0.966 Vrms
Ch2 0.967 Vrms

300 Ohm Low Gain SE Class A : DC Level

Waveform:	Sine
Generator Level:	0.000 Vrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Delay Time:	100.0 ms
Acquisition Time:	333.0 ms

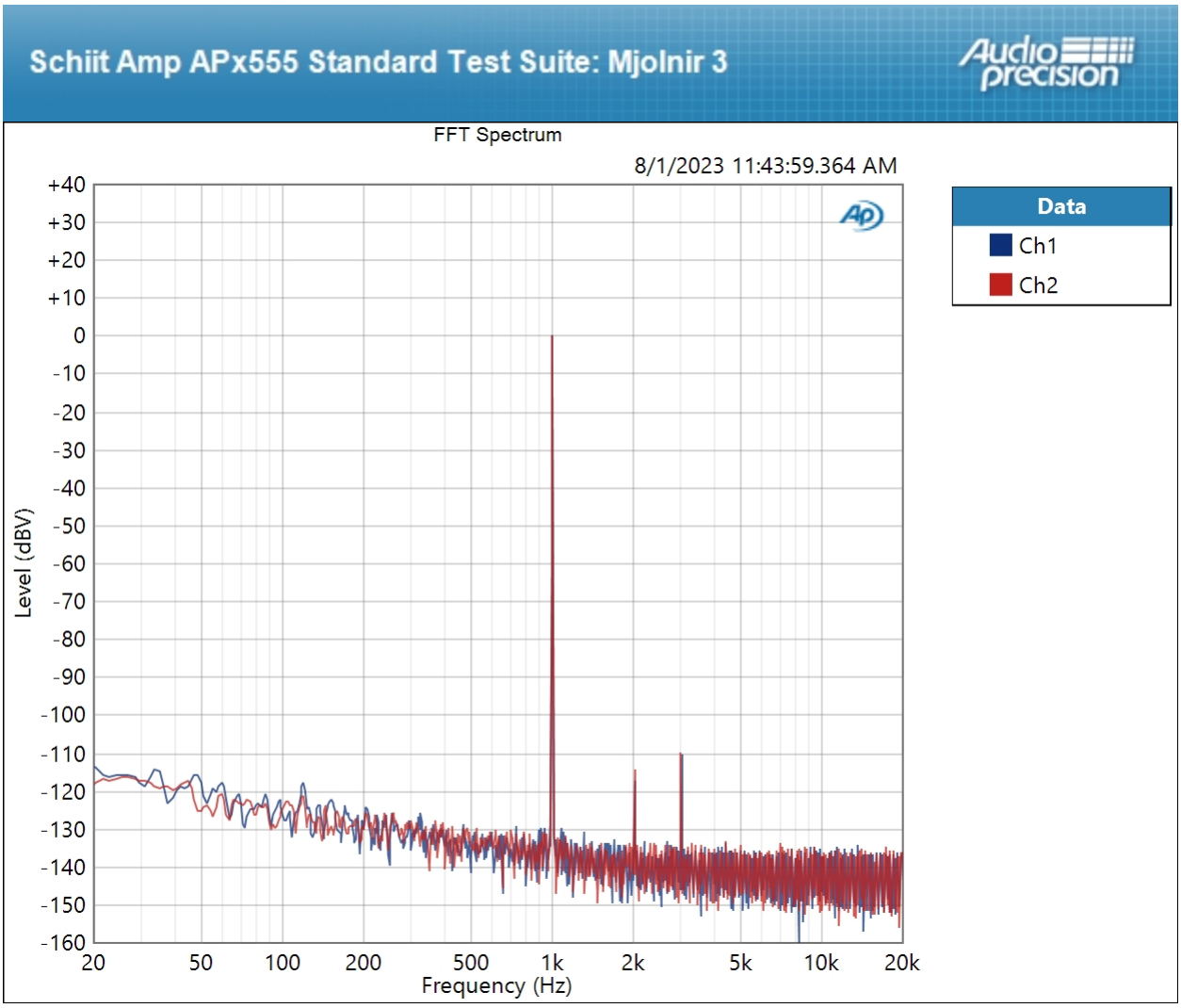
DC Level (8/1/2023 11:43:54.887 AM)

Ch1 -386.5 uV
Ch2 0.973 mV

300 Ohm Low Gain SE Class A : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	8/1/2023 11:43:59 AM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (8/1/2023 11:43:59.364 AM)

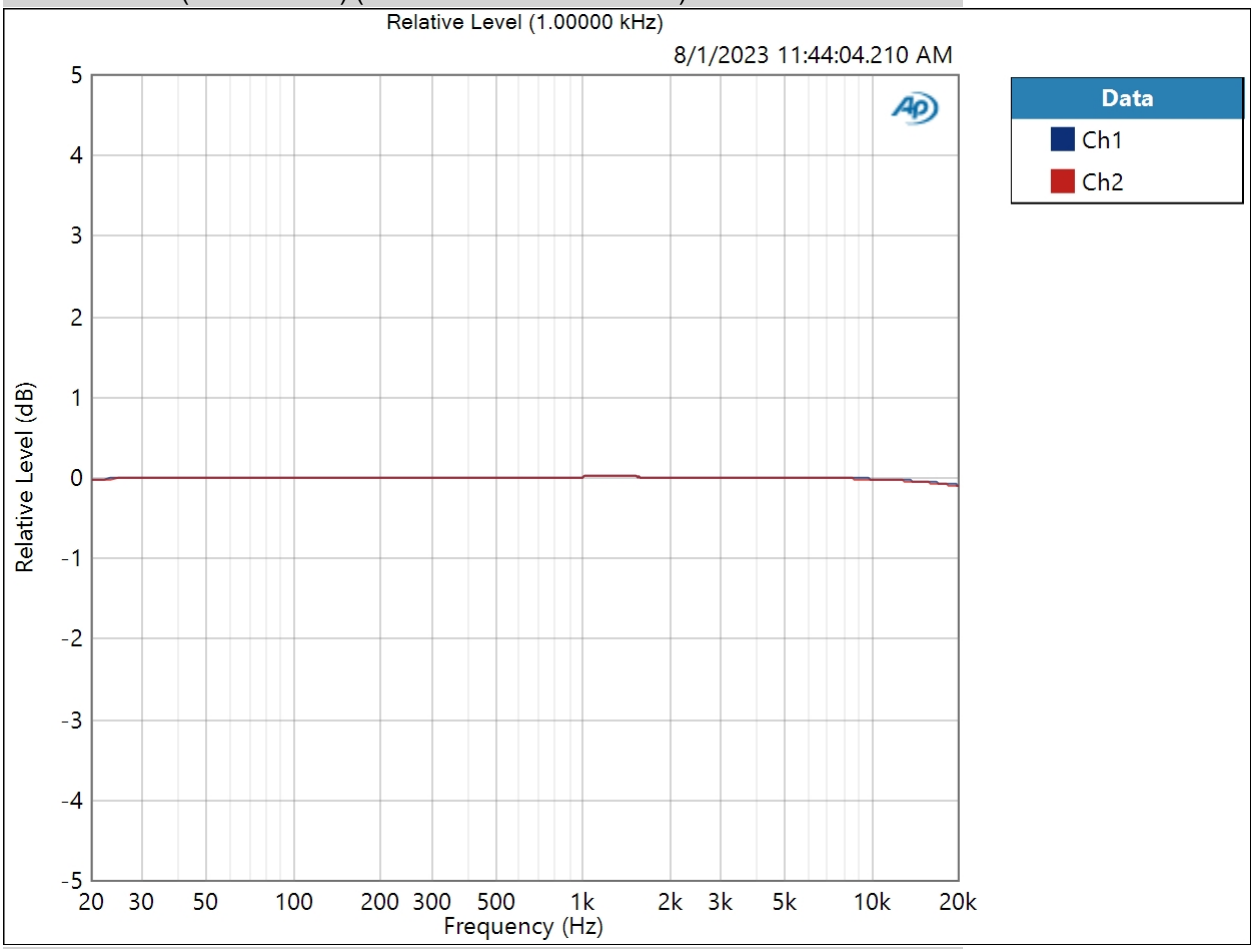


Result: PASSED

300 Ohm Low Gain SE Class A : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	530.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	8/1/2023 11:44:04 AM

Relative Level (1.00000 kHz) (8/1/2023 11:44:04.210 AM)



Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (8/1/2023 11:44:04.210 AM)

Ch1 ±0.060 dB

Ch2 ±0.066 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm Low Gain SE Class A : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	A-wt.

Signal to Noise Ratio (8/1/2023 11:44:07.094 AM)

Ch1 103.292 dB

Ch2 104.384 dB

300 Ohm Low Gain SE Class A : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
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 (8/1/2023 11:44:10.235 AM)

Ch1 0.039851 %
Ch2 0.040821 %

THD Ratio (8/1/2023 11:44:10.235 AM)

Ch1 0.000379 %
Ch2 0.000387 %

Noise Ratio (8/1/2023 11:44:10.235 AM)

Ch1 0.000998 %
Ch2 0.000978 %

Distortion Product Ratio (8/1/2023 11:44:10.235 AM)

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	-117.73	-109.39	-130.40	-130.07	-130.04	-136.48	-133.27	-131.83	-130.91
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-113.09	-110.52	-130.85	-132.00	-130.60	-126.16	-130.47	-137.11	-135.97

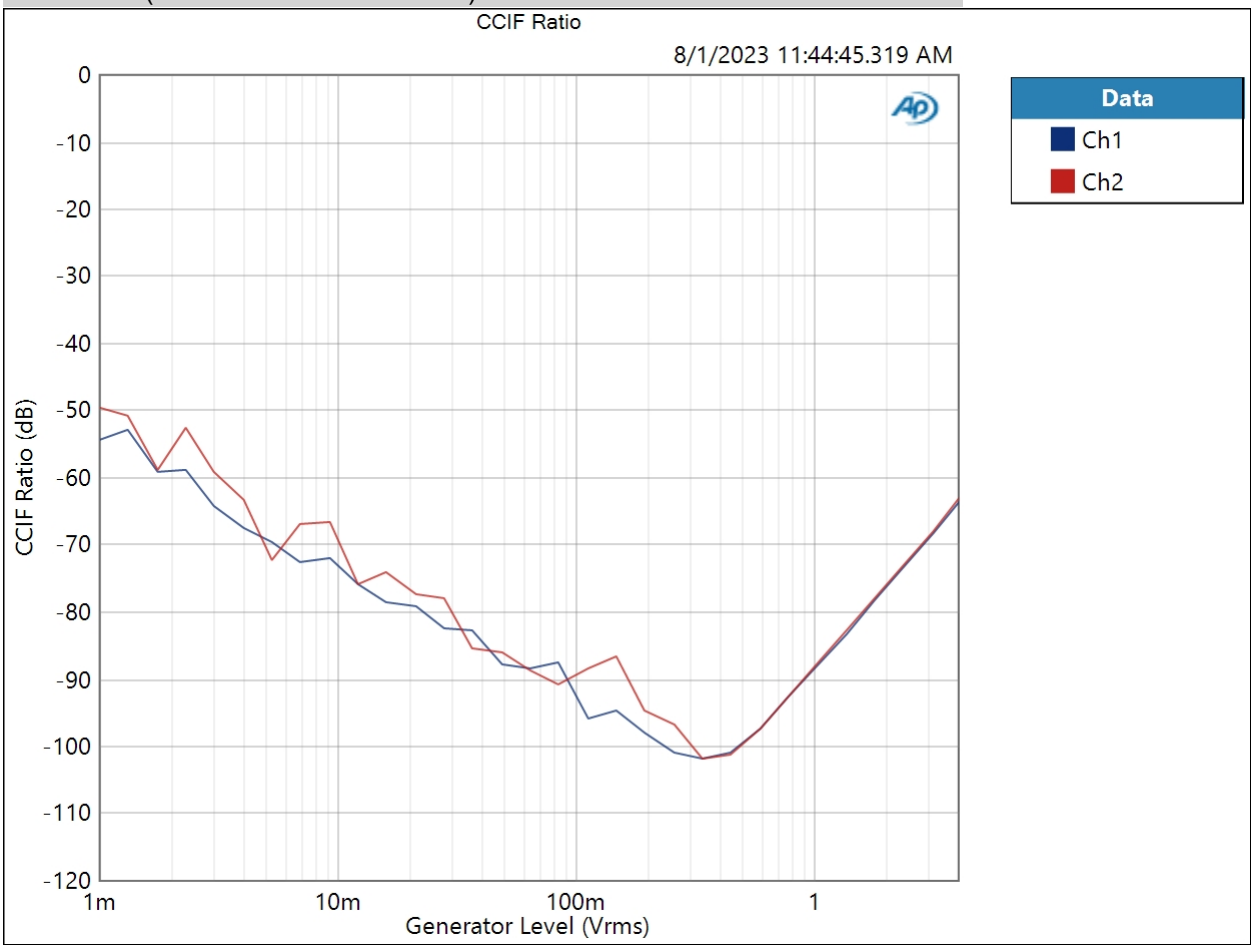
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

300 Ohm Low Gain SE Class A : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:44:45 AM

CCIF Ratio (8/1/2023 11:44:45.319 AM)

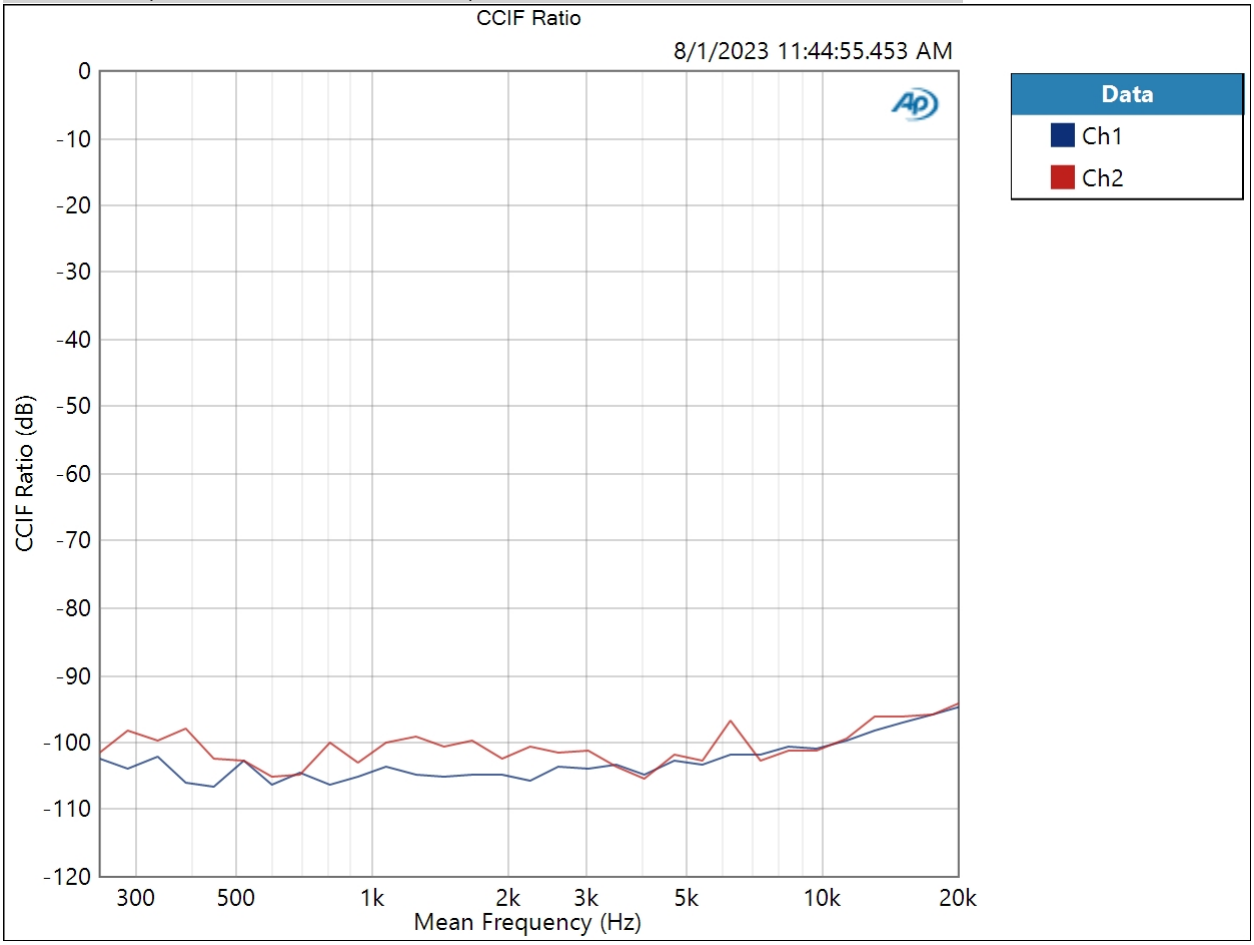


Result: PASSED

300 Ohm Low Gain SE Class A : IMD Frequency Sweep (CCIF)

Generator Level:	530.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Frequency:	20.0000 kHz
Stop Frequency:	250.000 Hz
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:44:55 AM

CCIF Ratio (8/1/2023 11:44:55.453 AM)



Result: PASSED

300 Ohm Low Gain SE Class A : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (8/1/2023 11:44:58.213 AM)

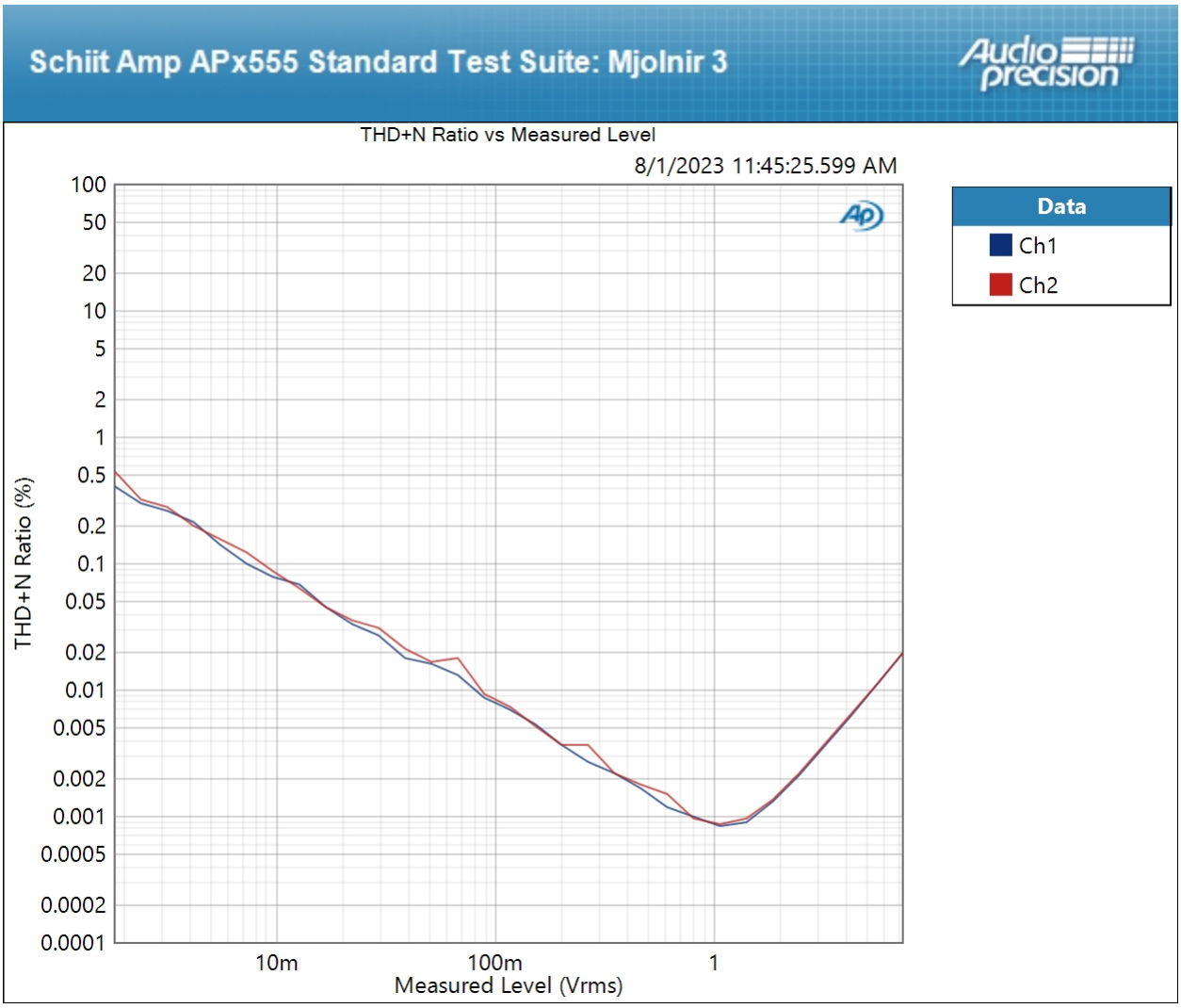
Ch1 -92.360 dB

Ch2 -91.447 dB

300 Ohm Low Gain SE Class A : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
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	8/1/2023 11:45:25 AM

THD+N Ratio vs Measured Level (8/1/2023 11:45:25.599 AM)



Result: PASSED

300 Ohm High Gain SE Class A : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	300 ohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• 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
Analog Input	
dBrA:	1.000 Vrms
dBrB:	1.000 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.

• 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

300 Ohm High Gain SE Class A : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (8/1/2023 11:39:54.904 AM)

Ch1 3.957 Vrms
Ch2 3.964 Vrms

300 Ohm High Gain SE Class A : DC Level

Waveform:	Sine
Generator Level:	0.000 Vrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Delay Time:	100.0 ms
Acquisition Time:	333.0 ms

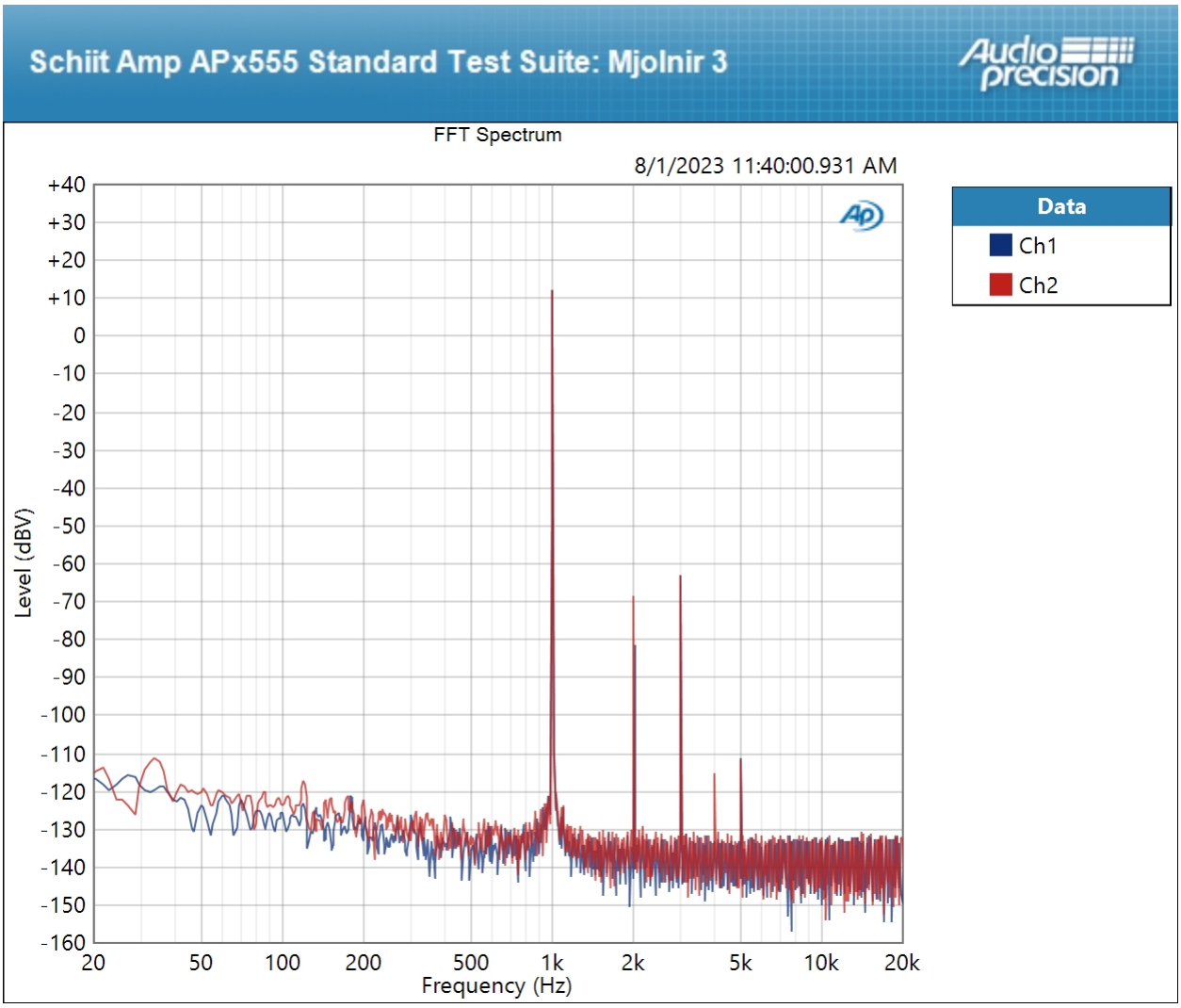
DC Level (8/1/2023 11:39:56.494 AM)

Ch1 222.6 uV
Ch2 408.9 uV

300 Ohm High Gain SE Class A : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	8/1/2023 11:40:00 AM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (8/1/2023 11:40:00.931 AM)

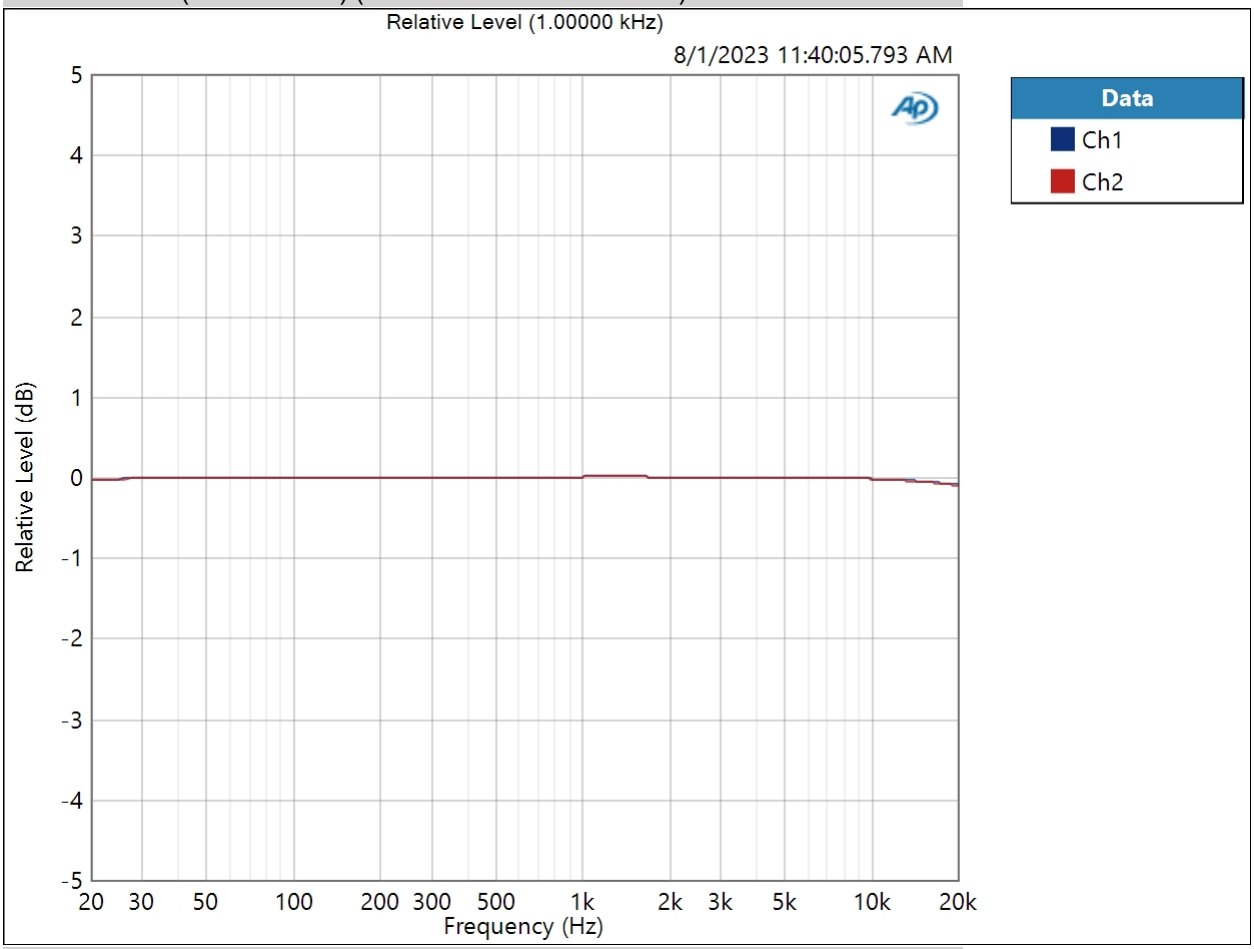


Result: PASSED

300 Ohm High Gain SE Class A : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	465.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	8/1/2023 11:40:05 AM

Relative Level (1.00000 kHz) (8/1/2023 11:40:05.793 AM)



Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (8/1/2023 11:40:05.793 AM)

Ch1 ±0.059 dB

Ch2 ±0.064 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High Gain SE Class A : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	A-wt.

Signal to Noise Ratio (8/1/2023 11:40:08.615 AM)

Ch1 113.992 dB

Ch2 111.175 dB

300 Ohm High Gain SE Class A : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
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 (8/1/2023 11:40:11.545 AM)

Ch1 0.017577 %

Ch2 0.019751 %

THD Ratio (8/1/2023 11:40:11.545 AM)

Ch1 0.017574 %

Ch2 0.019760 %

Noise Ratio (8/1/2023 11:40:11.545 AM)

Ch1 0.000280 %

Ch2 0.000325 %

Distortion Product Ratio (8/1/2023 11:40:11.545 AM)

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	-93.69	-75.16	-136.02	-123.57	-142.37	-144.26	-140.97	-140.33	-139.52
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-80.60	-75.18	-127.34	-123.23	-141.57	-141.53	-141.04	-140.70	-139.38

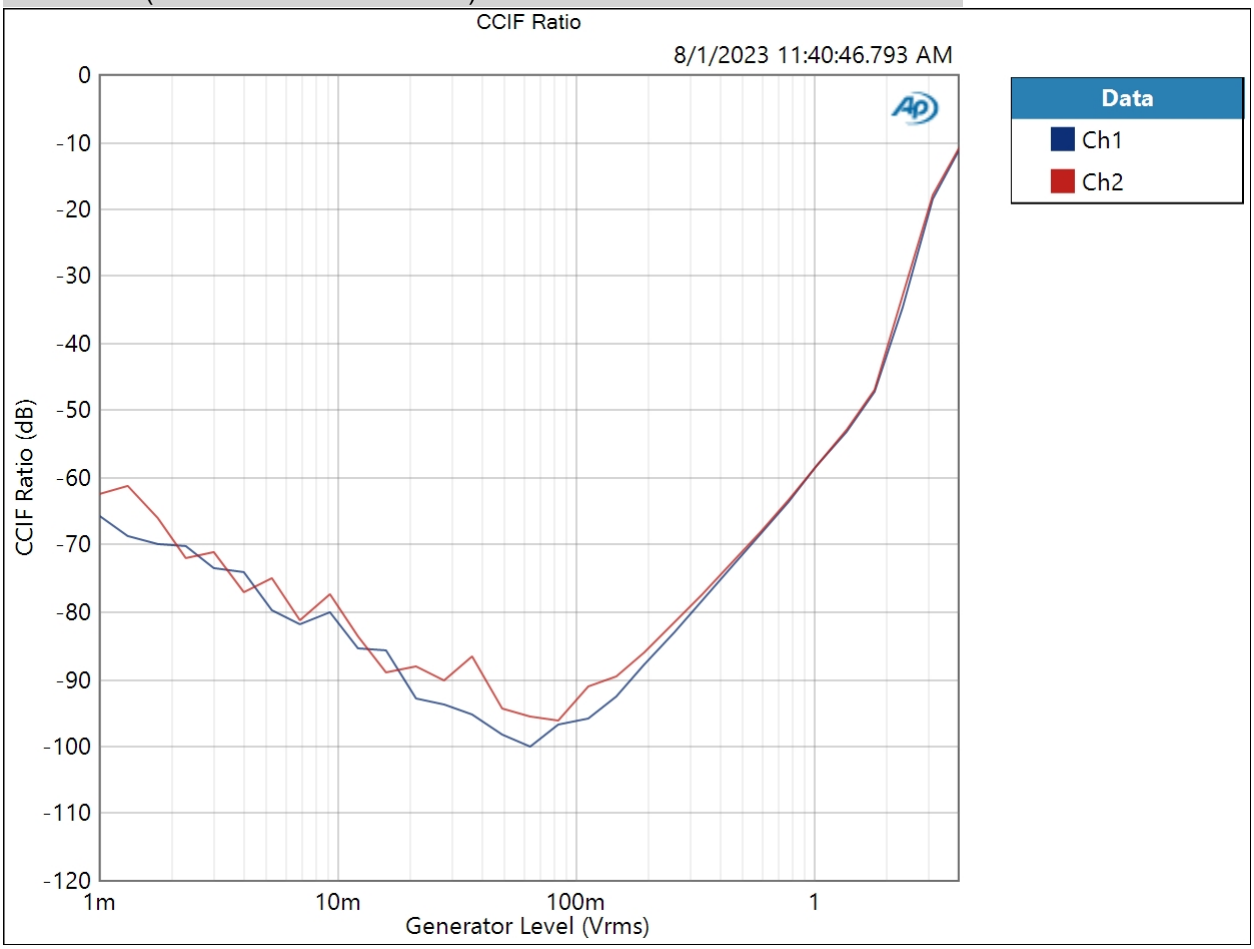
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

300 Ohm High Gain SE Class A : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:40:46 AM

CCIF Ratio (8/1/2023 11:40:46.793 AM)

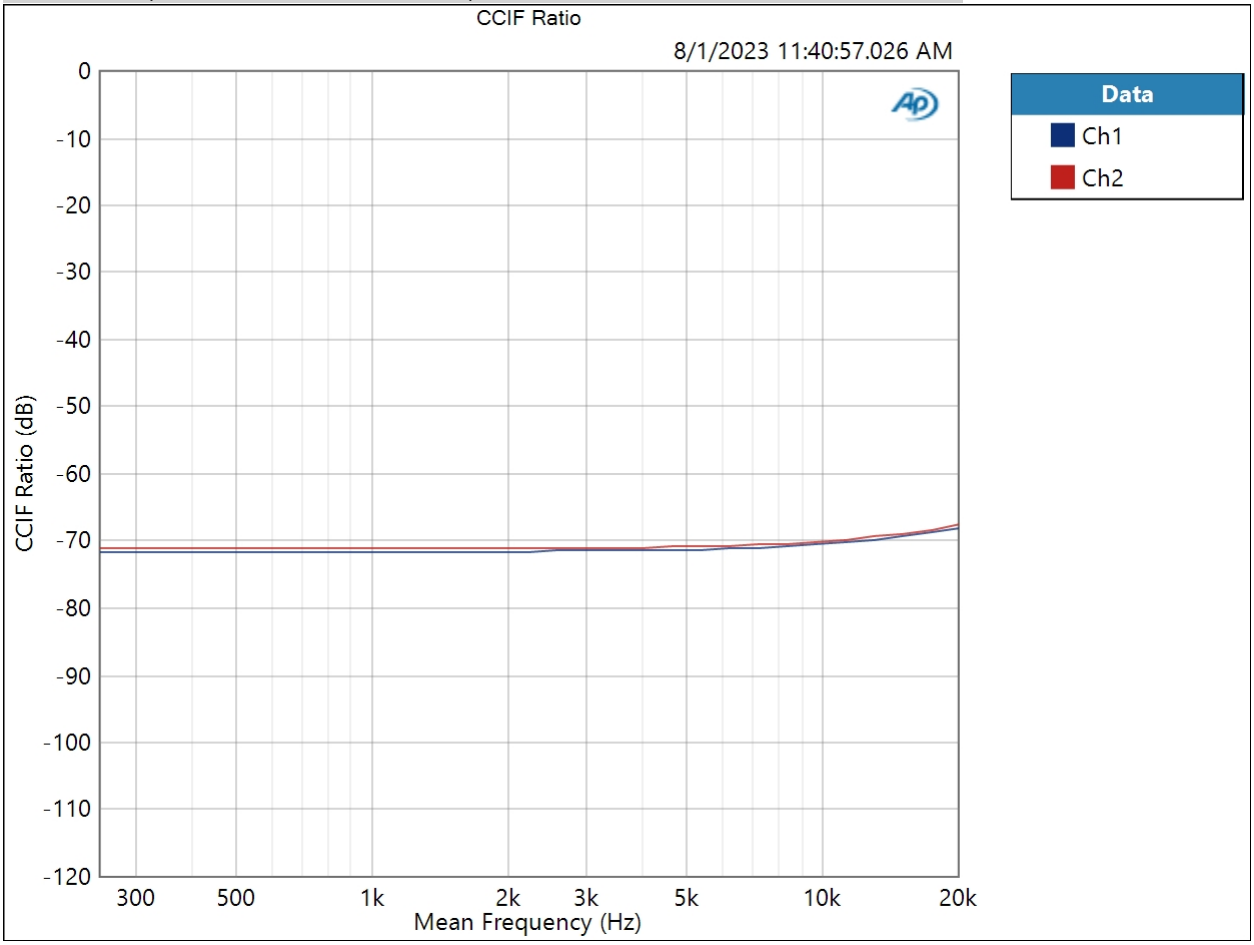


Result: PASSED

300 Ohm High Gain SE Class A : IMD Frequency Sweep (CCIF)

Generator Level:	530.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Frequency:	20.0000 kHz
Stop Frequency:	250.000 Hz
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:40:57 AM

CCIF Ratio (8/1/2023 11:40:57.026 AM)



Result: PASSED

300 Ohm High Gain SE Class A : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (8/1/2023 11:40:59.352 AM)

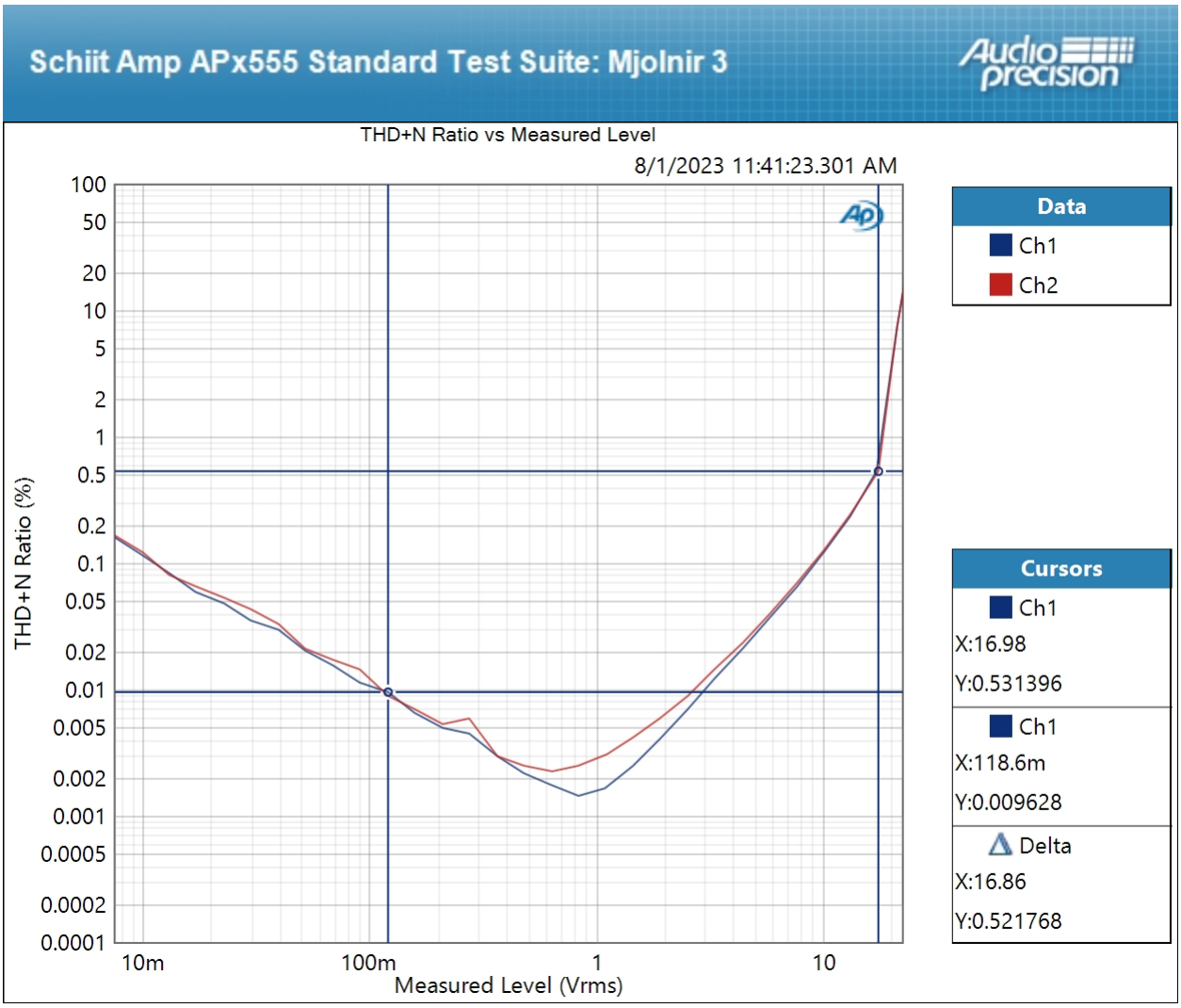
Ch1 -93.062 dB

Ch2 -90.608 dB

300 Ohm High Gain SE Class A : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
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	8/1/2023 11:41:23 AM

THD+N Ratio vs Measured Level (8/1/2023 11:41:23.301 AM)



Result: PASSED

300 Ohm High Gain Push Pull Class A : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	300 ohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• 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
Analog Input	
dBrA:	1.000 Vrms
dBrB:	1.000 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.

• 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

300 Ohm High Gain Push Pull Class A : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (8/1/2023 11:47:09.514 AM)

Ch1 3.994 Vrms
Ch2 4.007 Vrms

300 Ohm High Gain Push Pull Class A : DC Level

Waveform:	Sine
Generator Level:	0.000 Vrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Delay Time:	100.0 ms
Acquisition Time:	333.0 ms

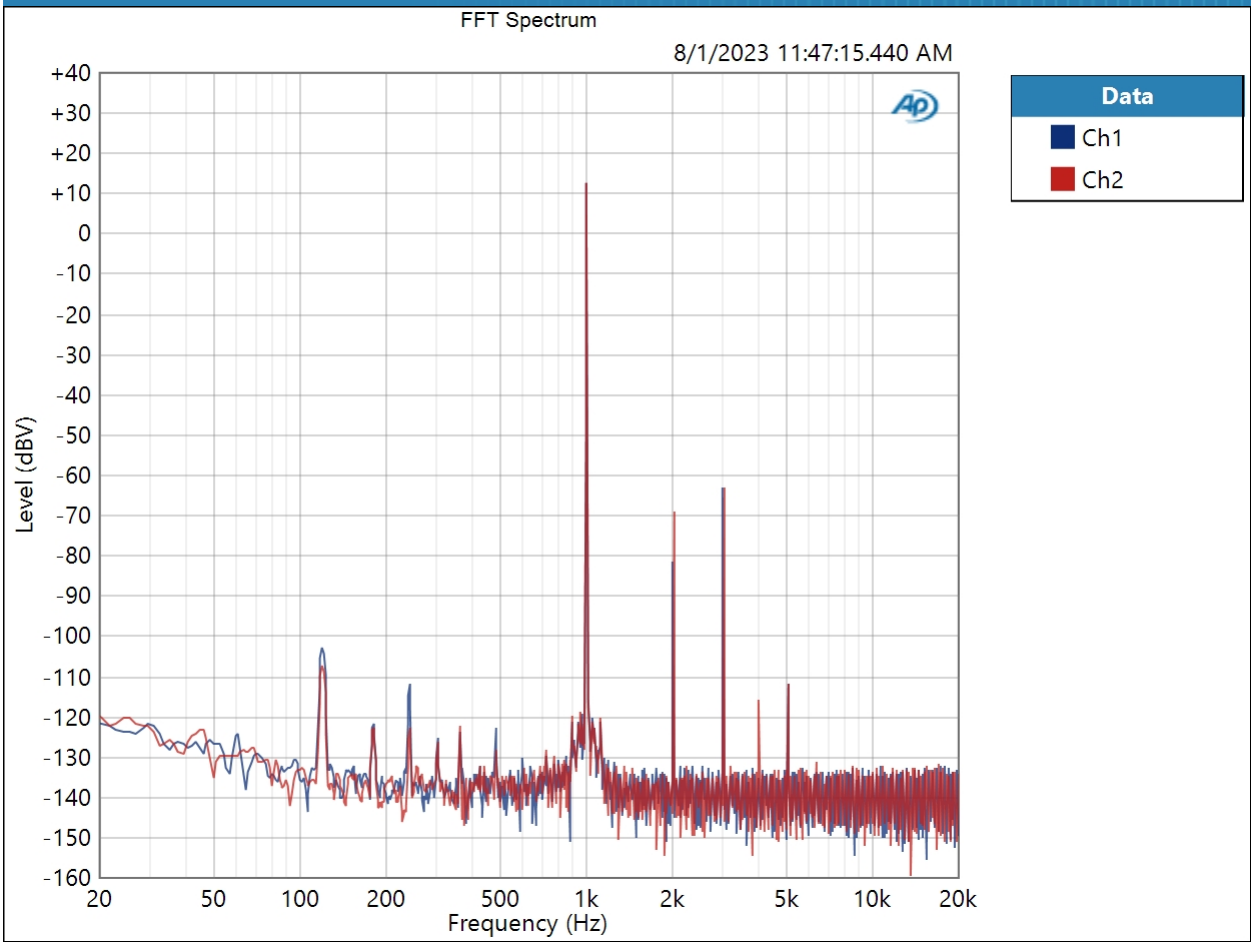
DC Level (8/1/2023 11:47:11.049 AM)

Ch1 -374.2 uV
Ch2 0.934 mV

300 Ohm High Gain Push Pull Class A : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	8/1/2023 11:47:15 AM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (8/1/2023 11:47:15.440 AM)

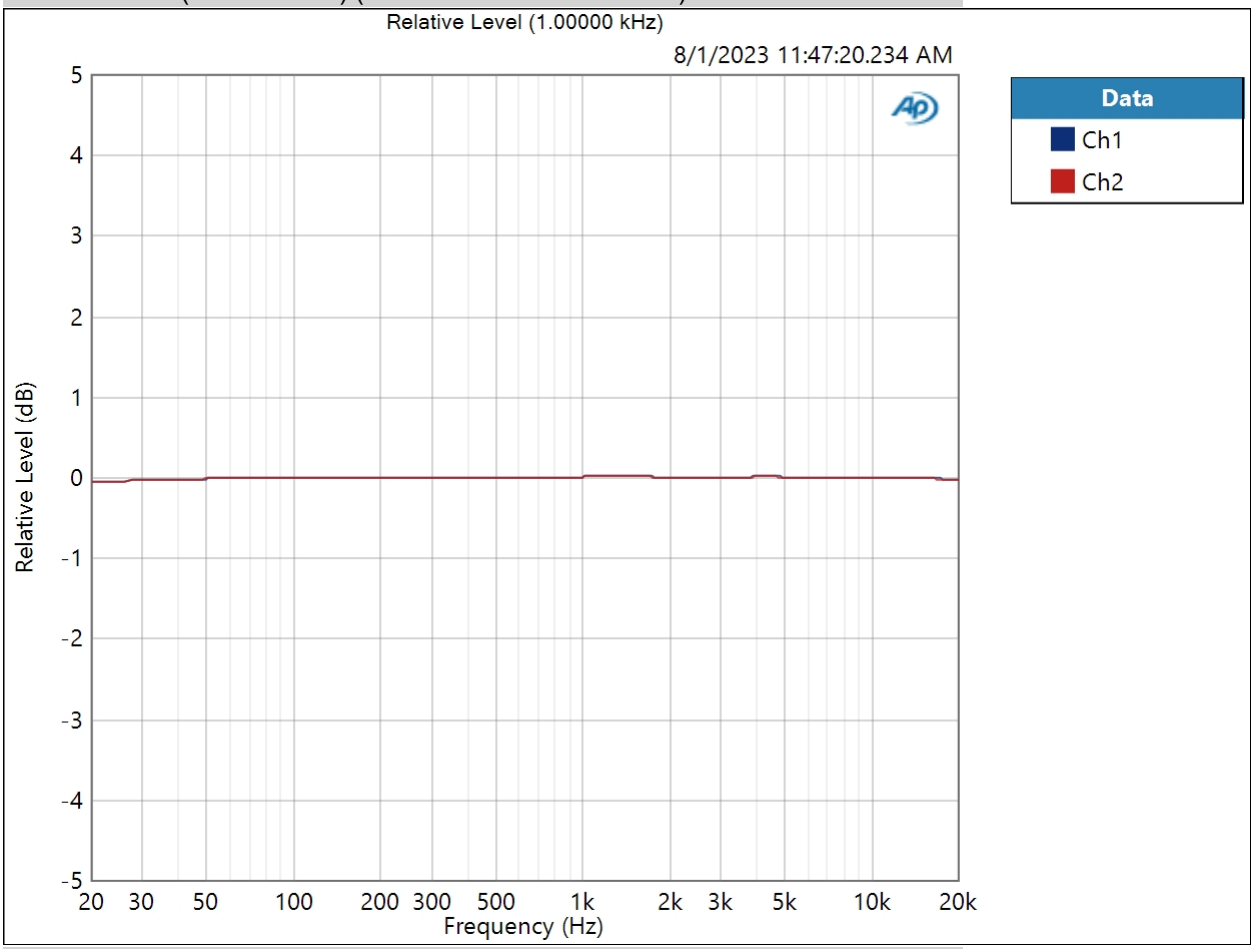


Result: PASSED

300 Ohm High Gain Push Pull Class A : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	530.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	8/1/2023 11:47:20 AM

Relative Level (1.00000 kHz) (8/1/2023 11:47:20.234 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (8/1/2023 11:47:20.234 AM)

Ch1 ±0.036 dB

Ch2 ±0.036 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High Gain Push Pull Class A : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	A-wt.

Signal to Noise Ratio (8/1/2023 11:47:23.135 AM)

Ch1 115.181 dB

Ch2 115.322 dB

300 Ohm High Gain Push Pull Class A : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
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 (8/1/2023 11:47:26.263 AM)

Ch1 0.035688 %
Ch2 0.037478 %

THD Ratio (8/1/2023 11:47:26.263 AM)

Ch1 0.017387 %
Ch2 0.019349 %

Noise Ratio (8/1/2023 11:47:26.263 AM)

Ch1 0.000303 %
Ch2 0.000234 %

Distortion Product Ratio (8/1/2023 11:47:26.263 AM)

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	-92.83	-75.27	-142.04	-124.32	-143.06	-139.97	-140.83	-144.19	-145.26
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-81.00	-75.30	-126.84	-123.73	-139.05	-145.08	-140.88	-137.83	-143.02

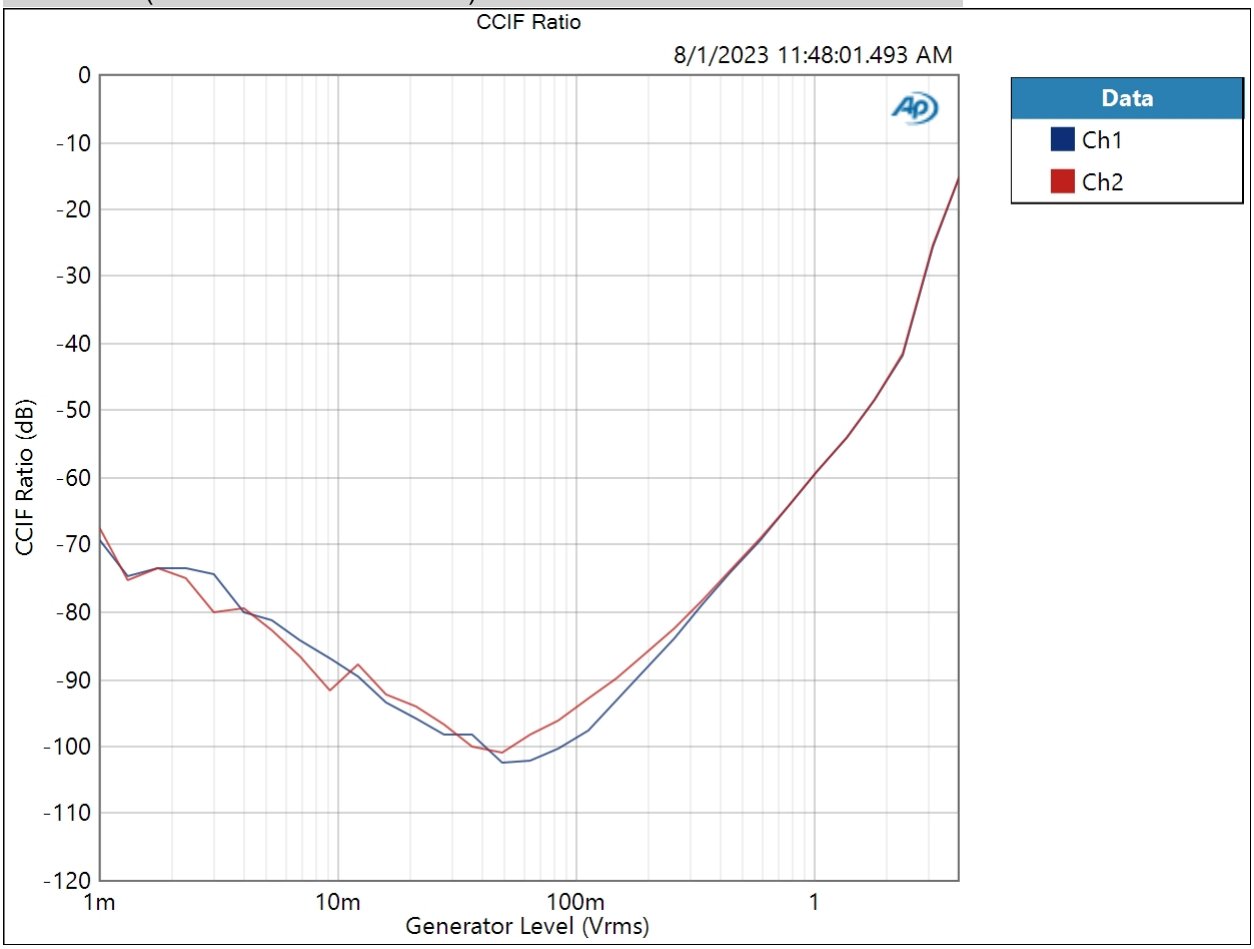
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

300 Ohm High Gain Push Pull Class A : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:48:01 AM

CCIF Ratio (8/1/2023 11:48:01.493 AM)

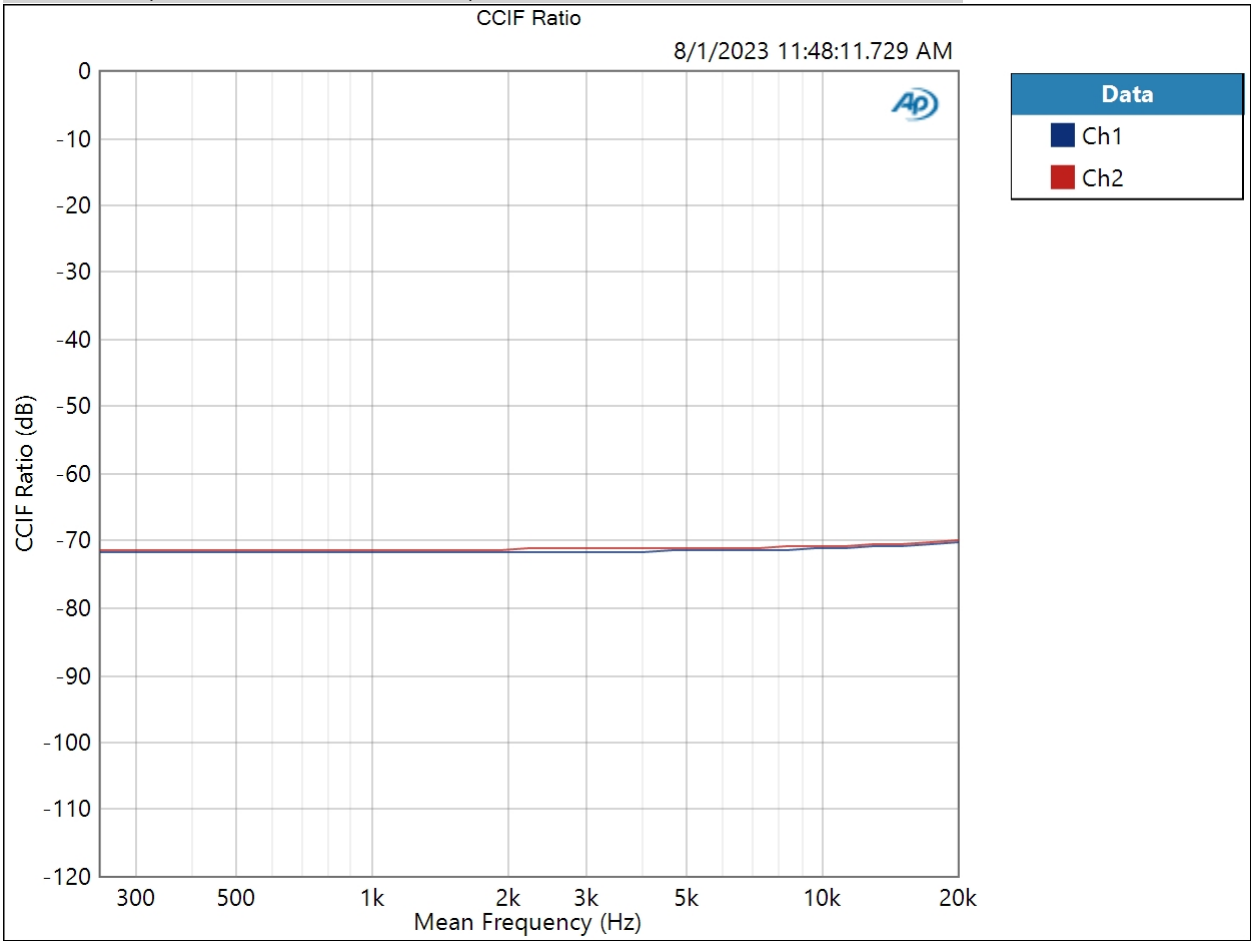


Result: PASSED

300 Ohm High Gain Push Pull Class A : IMD Frequency Sweep (CCIF)

Generator Level:	530.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Frequency:	20.0000 kHz
Stop Frequency:	250.000 Hz
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:48:11 AM

CCIF Ratio (8/1/2023 11:48:11.729 AM)



Result: PASSED

300 Ohm High Gain Push Pull Class A : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (8/1/2023 11:48:14.032 AM)

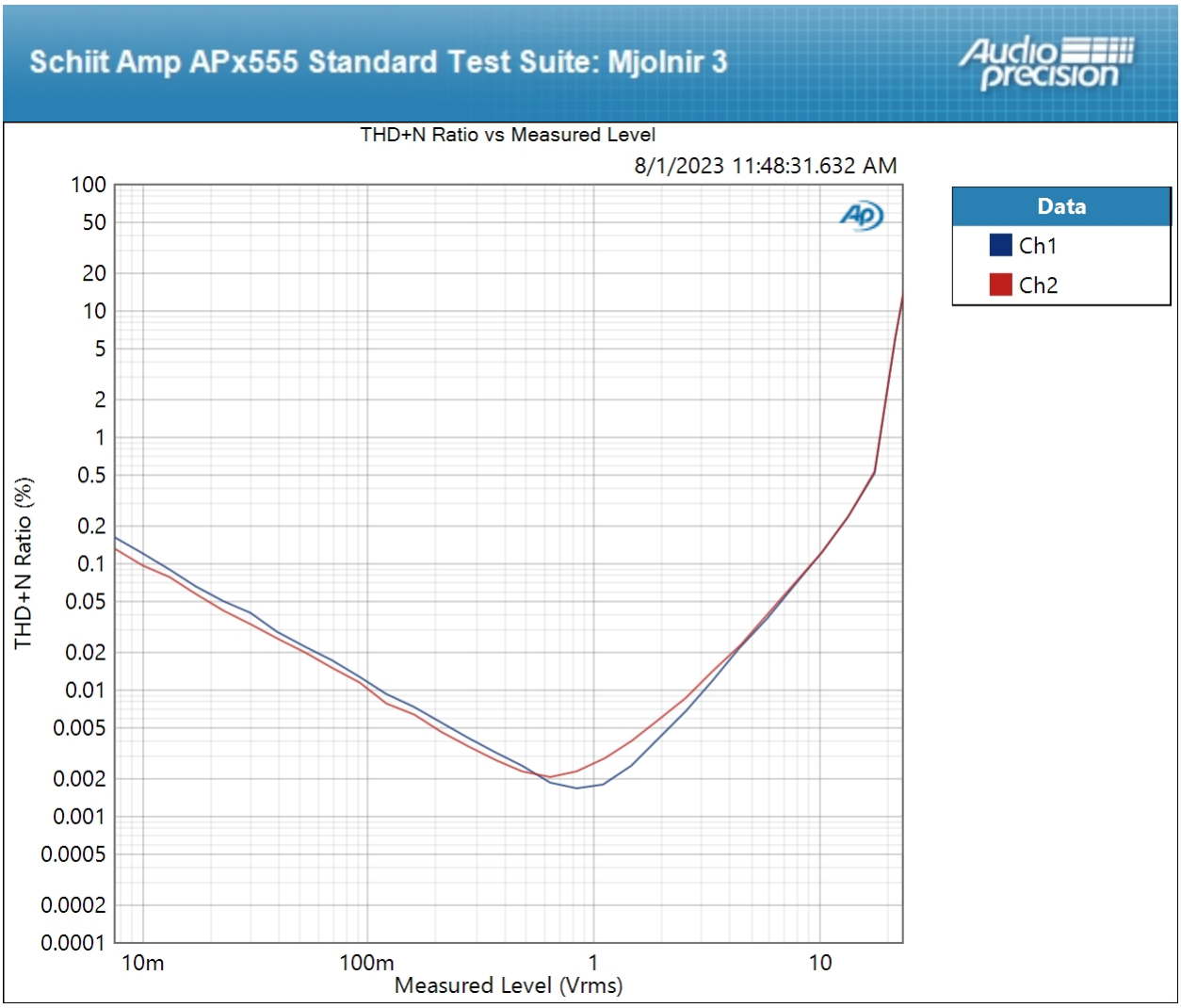
Ch1 -92.331 dB

Ch2 -90.213 dB

300 Ohm High Gain Push Pull Class A : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
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	8/1/2023 11:48:31 AM

THD+N Ratio vs Measured Level (8/1/2023 11:48:31.632 AM)



Result: PASSED

300 Ohm High Gain Feedback Class A : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	300 ohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• 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
Analog Input	
dBrA:	1.000 Vrms
dBrB:	1.000 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.

• 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

300 Ohm High Gain Feedback Class A : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (8/1/2023 11:49:32.420 AM)

Ch1 3.494 Vrms
Ch2 3.504 Vrms

300 Ohm High Gain Feedback Class A : DC Level

Waveform:	Sine
Generator Level:	0.000 Vrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Delay Time:	100.0 ms
Acquisition Time:	333.0 ms

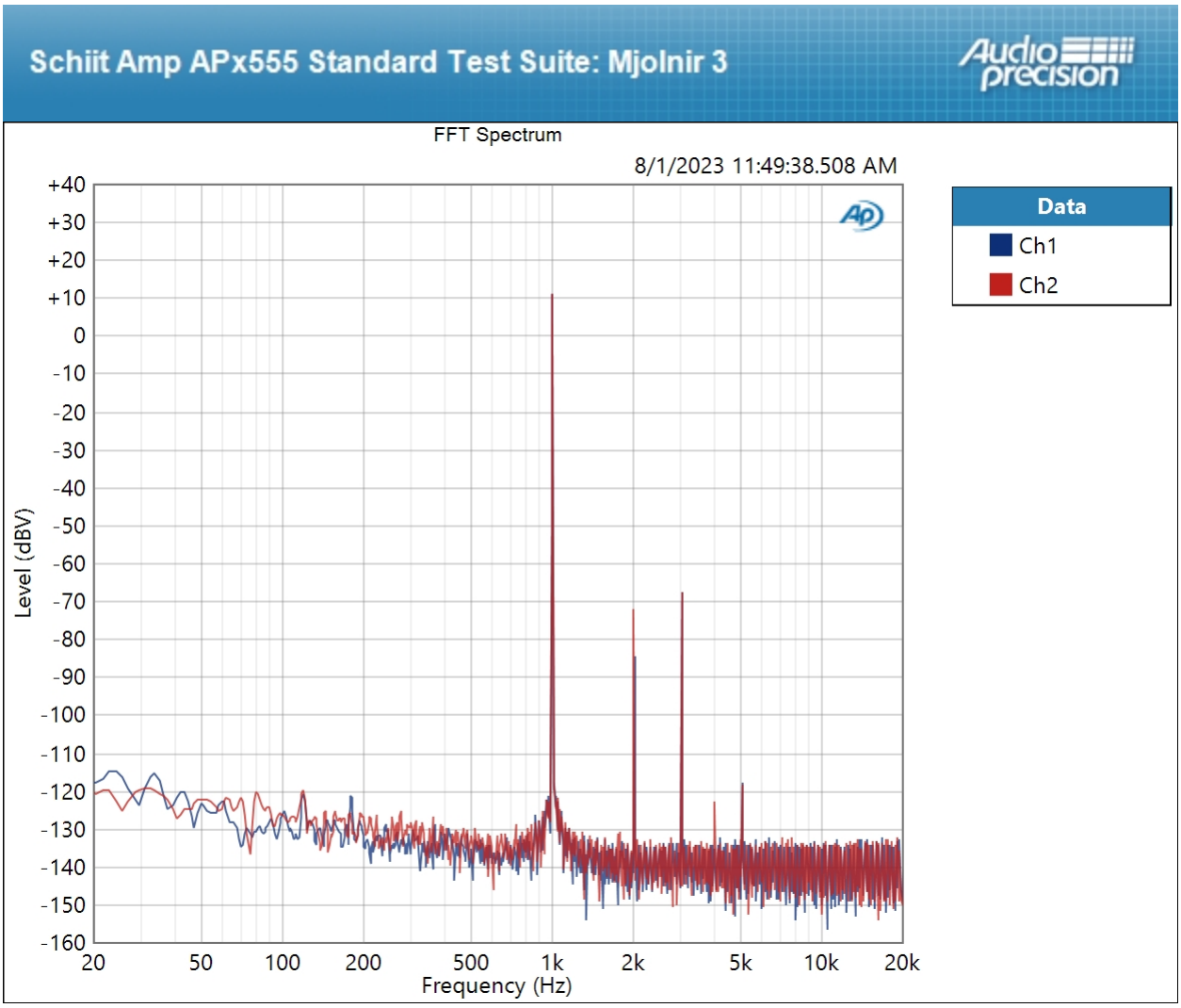
DC Level (8/1/2023 11:49:34.031 AM)

Ch1 -311.2 uV
Ch2 1.376 mV

300 Ohm High Gain Feedback Class A : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	8/1/2023 11:49:38 AM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (8/1/2023 11:49:38.508 AM)

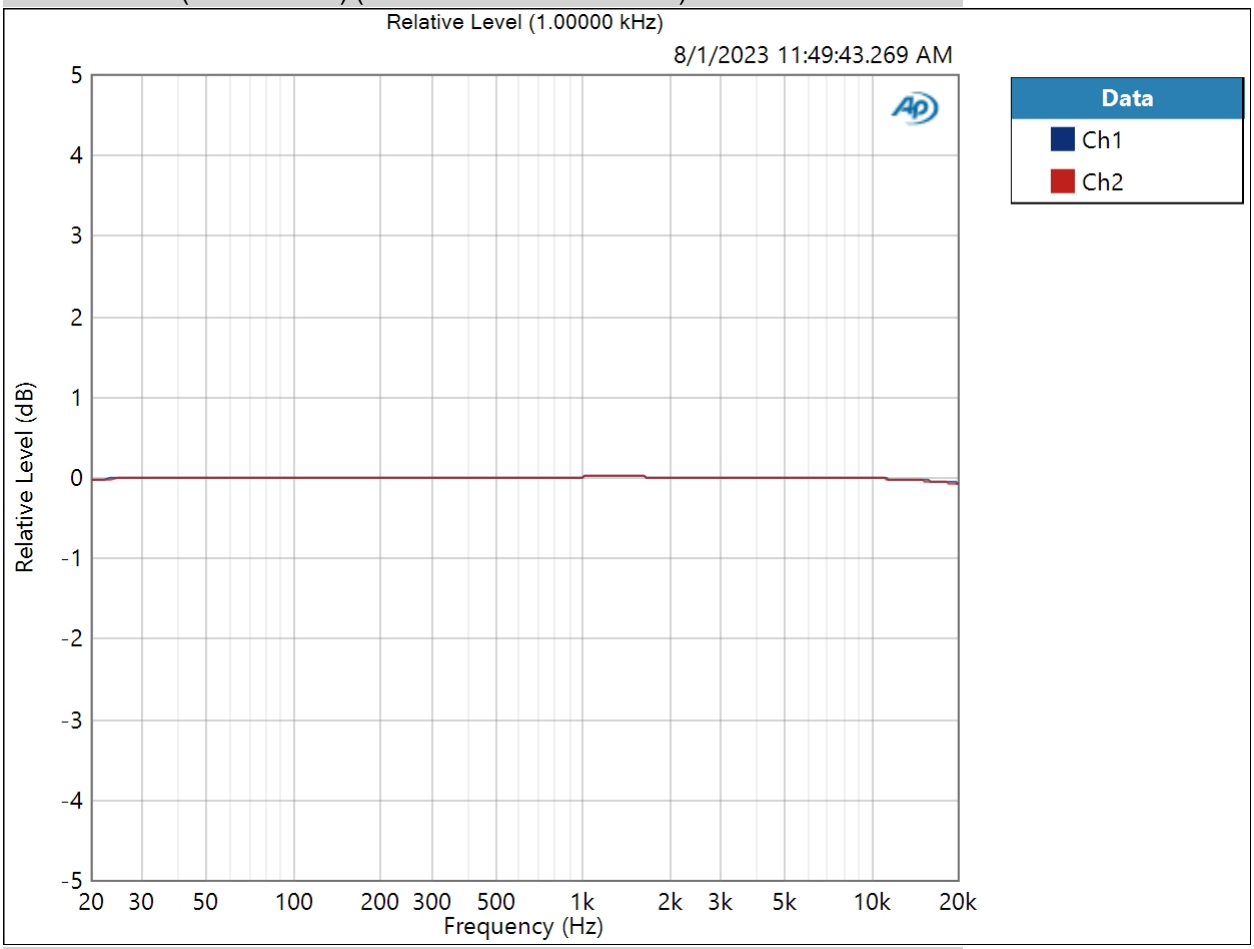


Result: PASSED

300 Ohm High Gain Feedback Class A : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	530.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	8/1/2023 11:49:43 AM

Relative Level (1.00000 kHz) (8/1/2023 11:49:43.269 AM)



Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (8/1/2023 11:49:43.269 AM)

Ch1 ±0.047 dB

Ch2 ±0.051 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High Gain Feedback Class A : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	A-wt.

Signal to Noise Ratio (8/1/2023 11:49:46.218 AM)

Ch1 114.402 dB

Ch2 113.804 dB

300 Ohm High Gain Feedback Class A : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
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 (8/1/2023 11:49:49.340 AM)

Ch1 0.056366 %
Ch2 0.057683 %

THD Ratio (8/1/2023 11:49:49.340 AM)

Ch1 0.012167 %
Ch2 0.013844 %

Noise Ratio (8/1/2023 11:49:49.340 AM)

Ch1 0.000259 %
Ch2 0.000262 %

Distortion Product Ratio (8/1/2023 11:49:49.340 AM)

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	-94.88	-78.39	-140.72	-129.14	-141.33	-137.20	-139.10	-143.24	-143.66
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-83.22	-78.42	-132.60	-127.52	-142.58	-143.11	-142.10	-140.47	-141.40

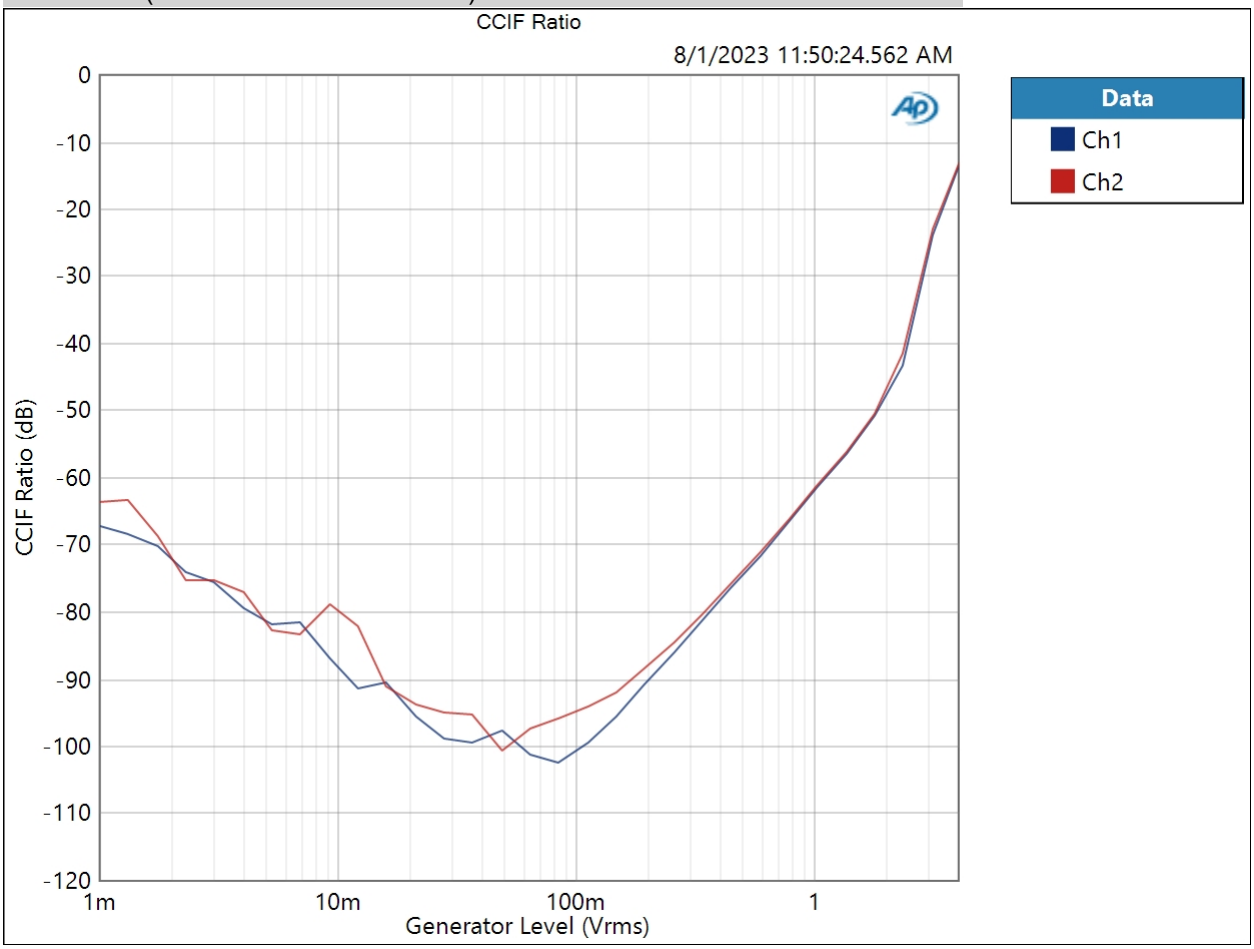
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

300 Ohm High Gain Feedback Class A : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:50:24 AM

CCIF Ratio (8/1/2023 11:50:24.562 AM)

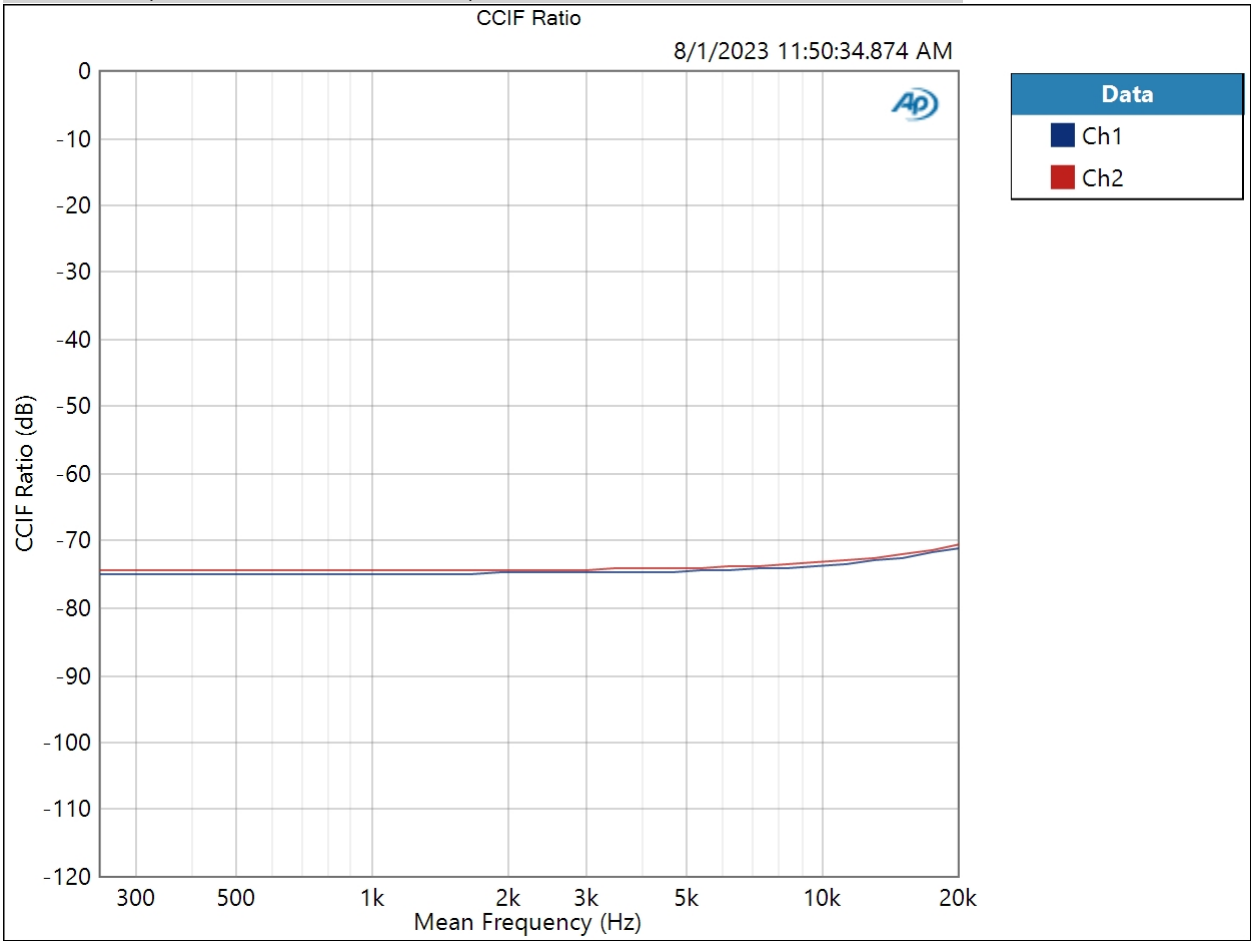


Result: PASSED

300 Ohm High Gain Feedback Class A : IMD Frequency Sweep (CCIF)

Generator Level:	530.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Frequency:	20.0000 kHz
Stop Frequency:	250.000 Hz
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:50:34 AM

CCIF Ratio (8/1/2023 11:50:34.874 AM)



Result: PASSED

300 Ohm High Gain Feedback Class A : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	530.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (8/1/2023 11:50:37.191 AM)

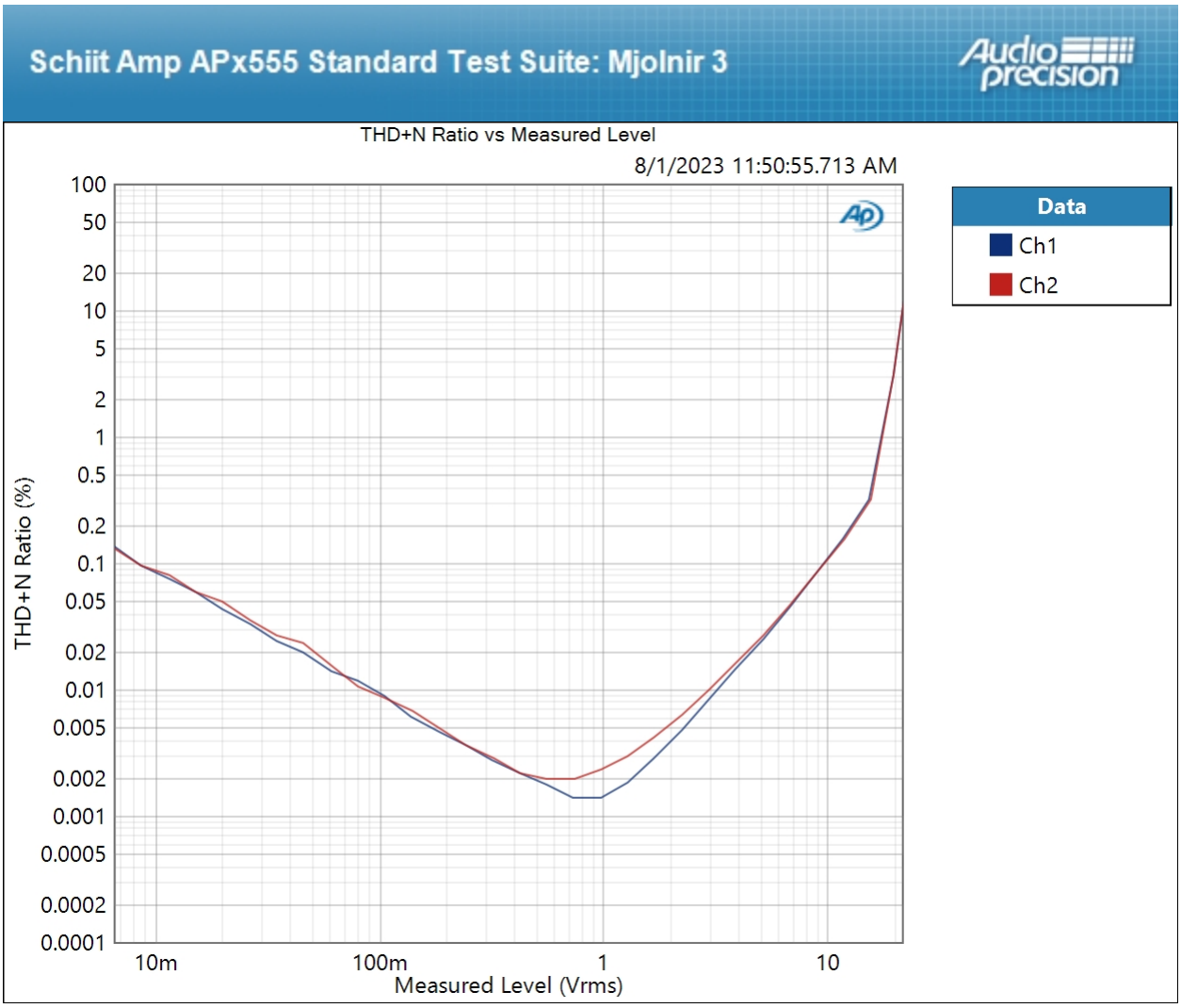
Ch1 -92.724 dB

Ch2 -90.569 dB

300 Ohm High Gain Feedback Class A : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
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	8/1/2023 11:50:55 AM

THD+N Ratio vs Measured Level (8/1/2023 11:50:55.713 AM)



Result: PASSED

32 Ohm Low Gain PP Feedback Class A : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	300 ohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• 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
Analog Input	
dBrA:	1.000 Vrms
dBrB:	1.000 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.

• 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

32 Ohm Low Gain PP Feedback Class A : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	660.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (8/1/2023 11:54:44.085 AM)

Ch1 1.008 Vrms
Ch2 1.007 Vrms

32 Ohm Low Gain PP Feedback Class A : DC Level

Waveform:	Sine
Generator Level:	0.000 Vrms
DC Offset:	0.000 V
Frequency:	1.00000 kHz
Delay Time:	100.0 ms
Acquisition Time:	333.0 ms

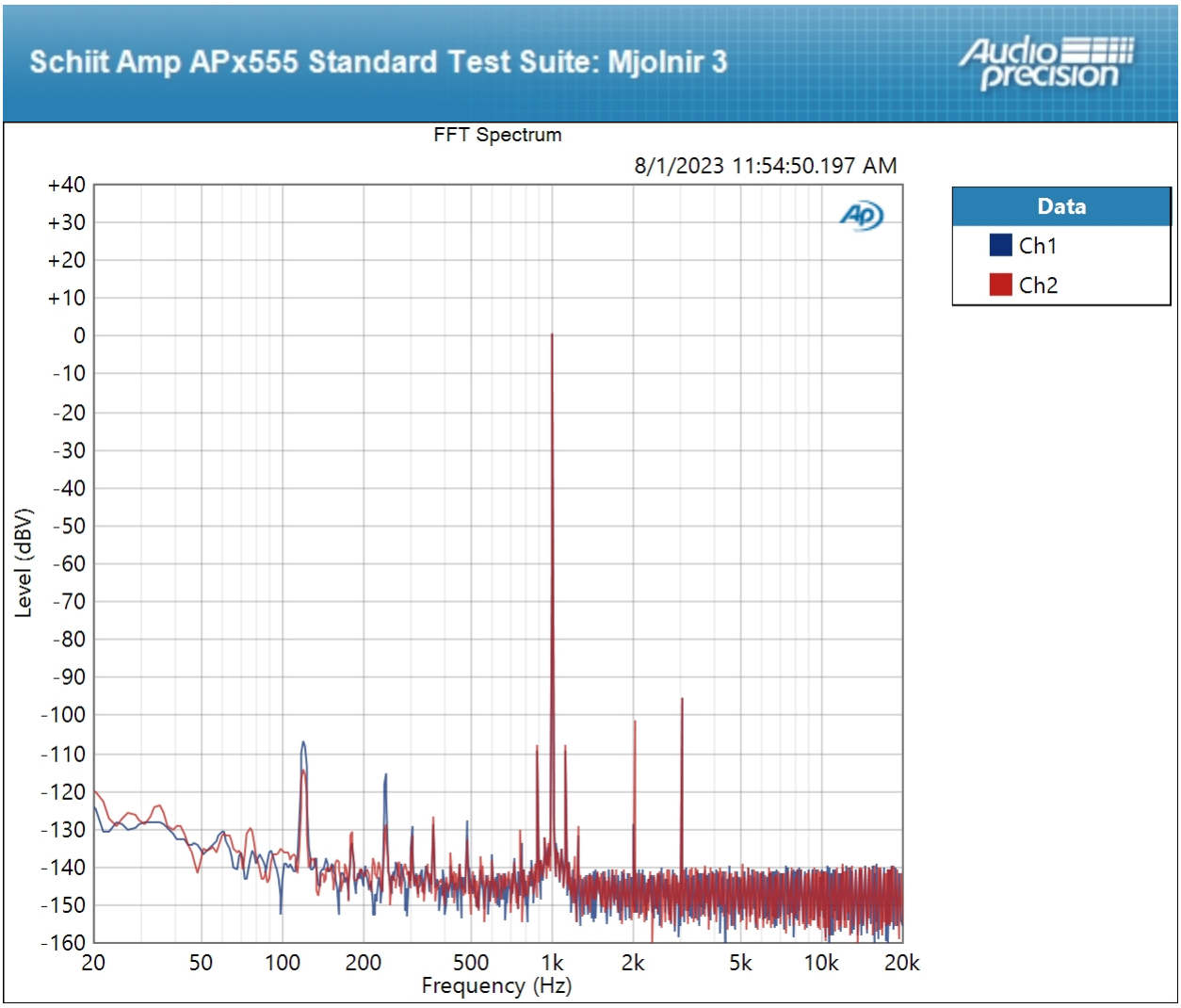
DC Level (8/1/2023 11:54:45.666 AM)

Ch1 -241.8 uV
Ch2 816.1 uV

32 Ohm Low Gain PP Feedback Class A : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	660.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	8/1/2023 11:54:50 AM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (8/1/2023 11:54:50.197 AM)

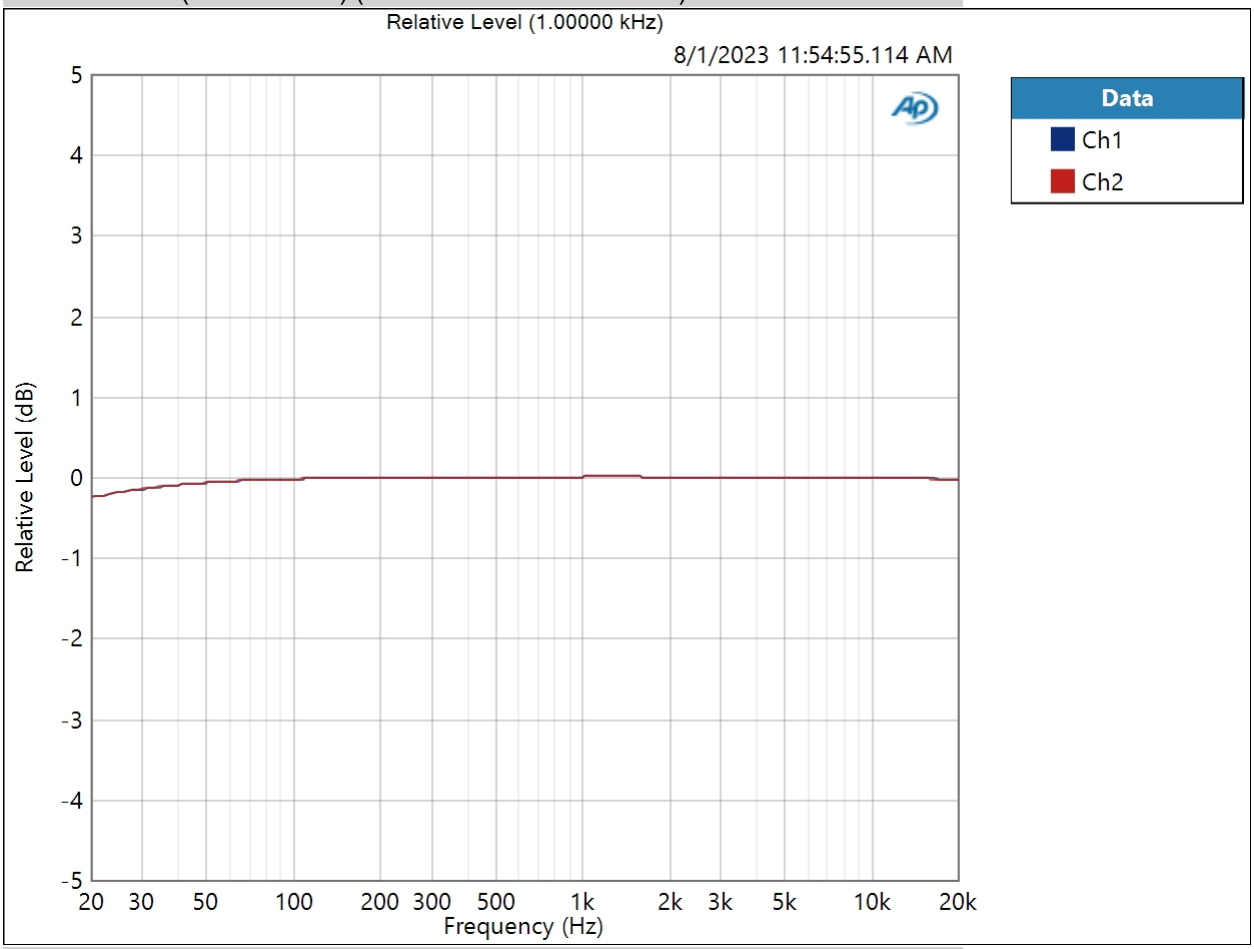


Result: PASSED

32 Ohm Low Gain PP Feedback Class A : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	660.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	8/1/2023 11:54:55 AM

Relative Level (1.00000 kHz) (8/1/2023 11:54:55.114 AM)



Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (8/1/2023 11:54:55.114 AM)

Ch1 ±0.128 dB

Ch2 ±0.127 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm Low Gain PP Feedback Class A : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	660.0 mVrms
Frequency:	1.00000 kHz
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Elliptic
Low-pass Frequency:	20 kHz
Weighting Filter:	A-wt.

Signal to Noise Ratio (8/1/2023 11:54:58.039 AM)

Ch1 109.744 dB

Ch2 110.060 dB

32 Ohm Low Gain PP Feedback Class A : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	660.0 mVrms
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 (8/1/2023 11:55:01.019 AM)

Ch1	0.001770 %
Ch2	0.001979 %

THD Ratio (8/1/2023 11:55:01.019 AM)

Ch1	0.001652 %
Ch2	0.001907 %

Noise Ratio (8/1/2023 11:55:01.019 AM)

Ch1	0.000634 %
Ch2	0.000469 %

Distortion Product Ratio (8/1/2023 11:55:01.019 AM)

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	-127.36	-95.65	-138.01	-139.19	-133.89	-133.22	-135.95	-130.81	-139.34
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-101.33	-95.38	-137.13	-137.37	-135.72	-137.43	-140.55	-133.42	-135.98

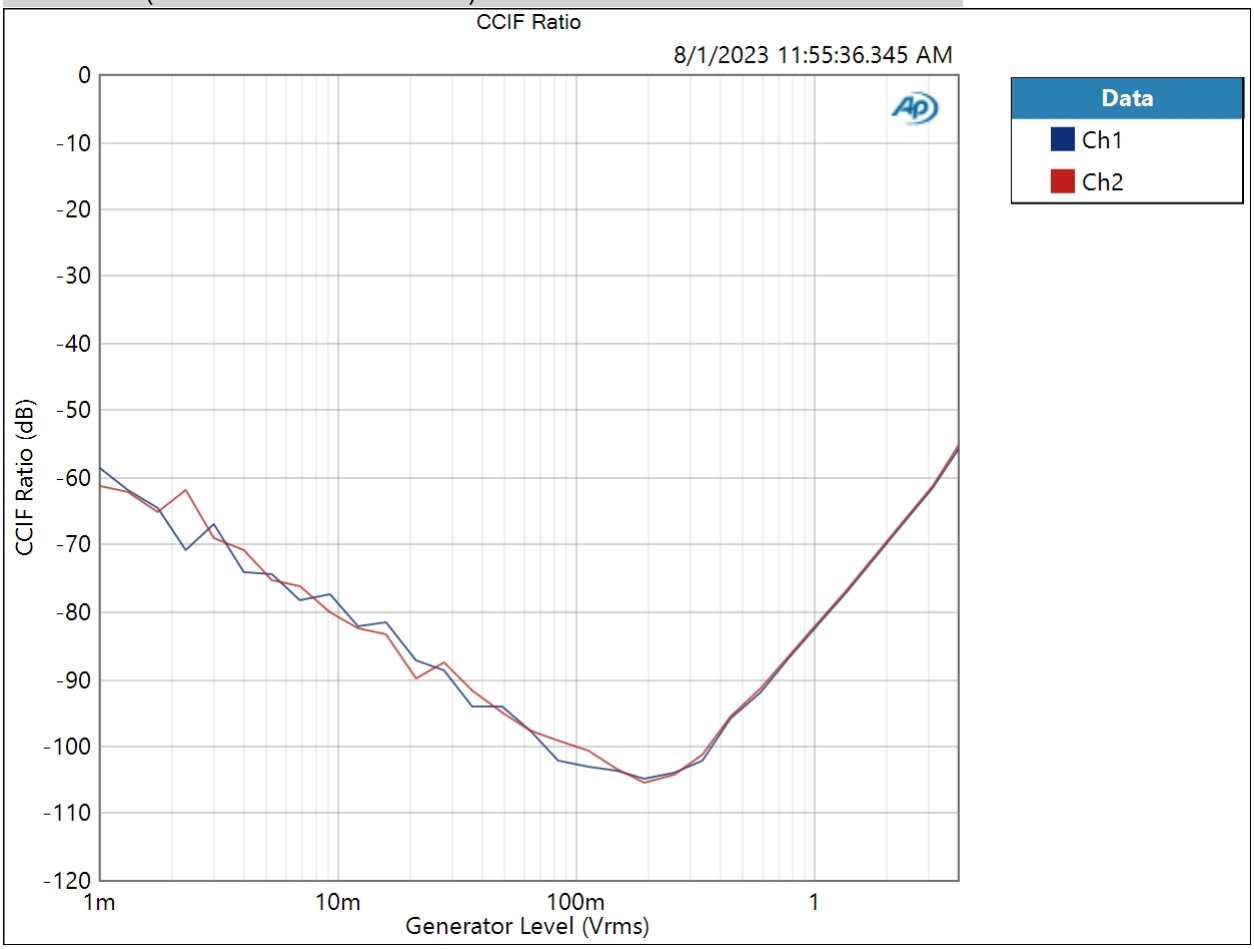
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

32 Ohm Low Gain PP Feedback Class A : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:55:36 AM

CCIF Ratio (8/1/2023 11:55:36.345 AM)

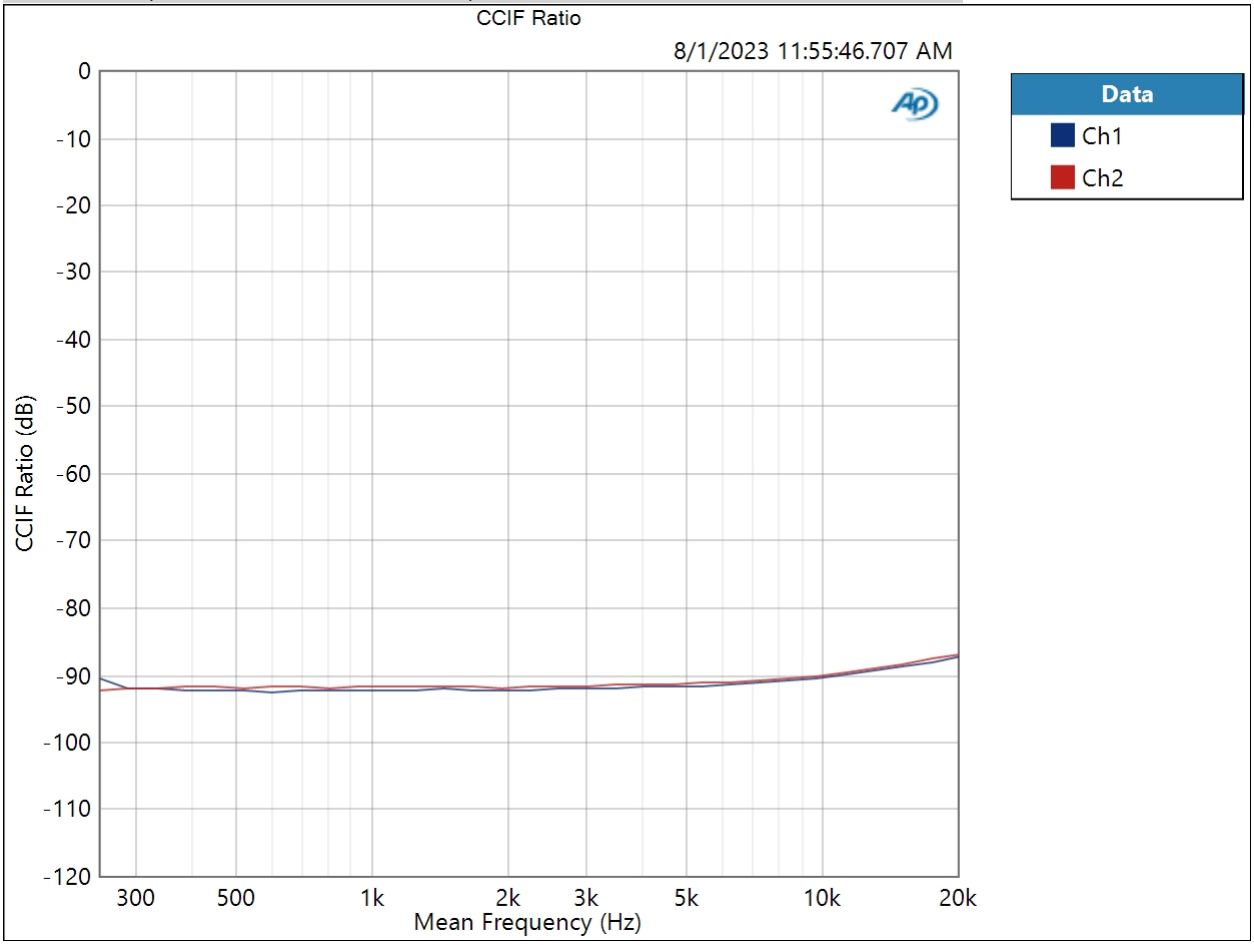


Result: PASSED

32 Ohm Low Gain PP Feedback Class A : IMD Frequency Sweep (CCIF)

Generator Level:	660.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Frequency:	20.0000 kHz
Stop Frequency:	250.000 Hz
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	8/1/2023 11:55:46 AM

CCIF Ratio (8/1/2023 11:55:46.707 AM)

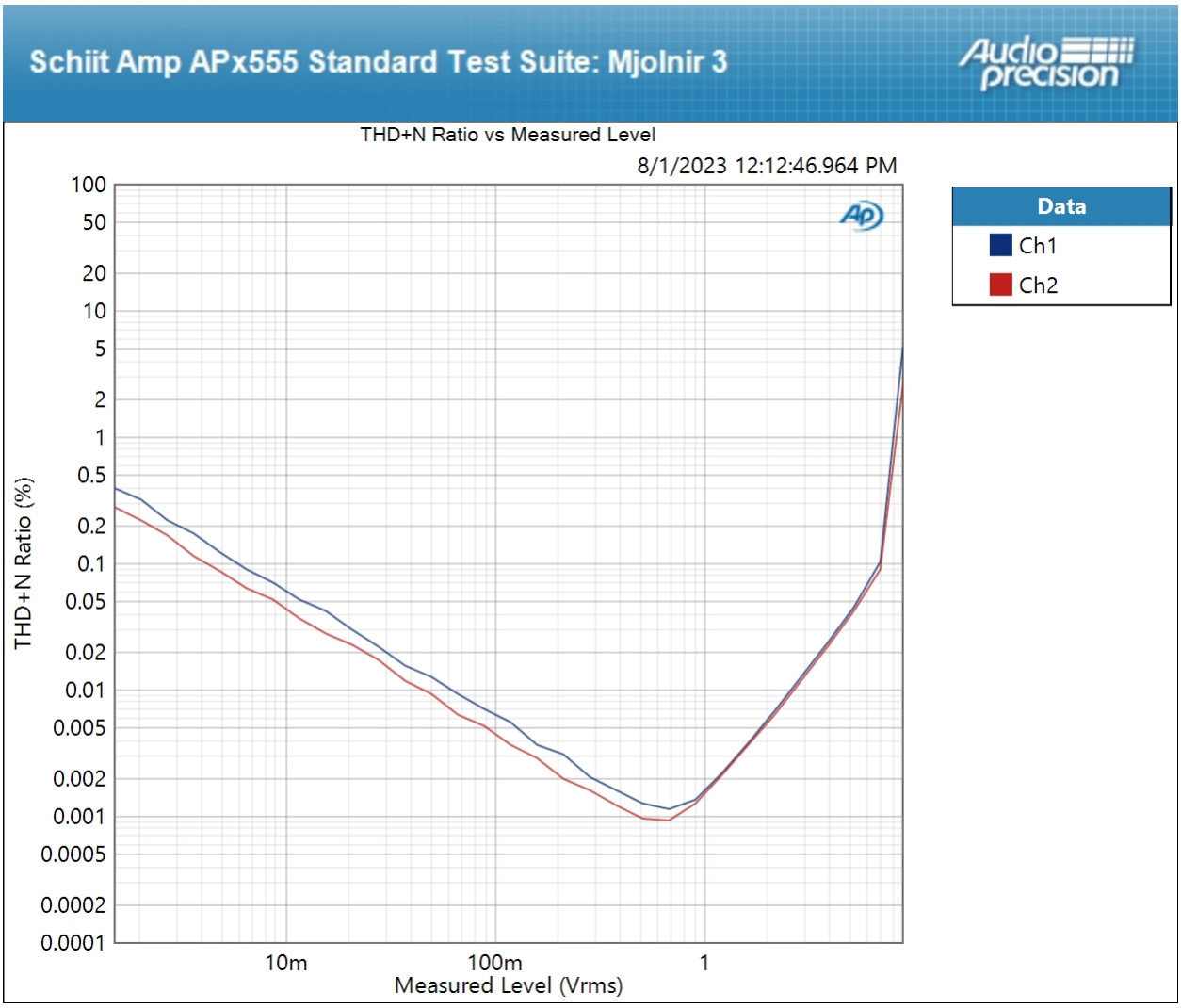


Result: PASSED

32 Ohm Low Gain PP Feedback Class A : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	6.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
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	8/1/2023 12:12:46 PM

THD+N Ratio vs Measured Level (8/1/2023 12:12:46.964 PM)



Result: PASSED