Schiit Amp APx555 Standard Test Suite: Midgard

AudioPrecision

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 Halo

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 Halo

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 Low SE

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 SE

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 Halo	
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 High Halo	
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 SE	
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 High SE	
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
Preamp Balanced	
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
Preamp SE	
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

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 Halo : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
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 Halo : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 2:38:36.870 PM)

Ch1 4.020 Vrms
Ch2 4.020 Vrms

300 Ohm Low Halo : 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 (9/12/2023 2:38:38.602 PM)

Ch1 -99.47 uV
Ch2 -124.6 uV

300 Ohm Low Halo : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 2:38:43 PM
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 (9/12/2023 2:38:43.219 PM)

FFT Spectrum

9/12/2023 2:38:43.219 PM

Data
Ch1
Ch2
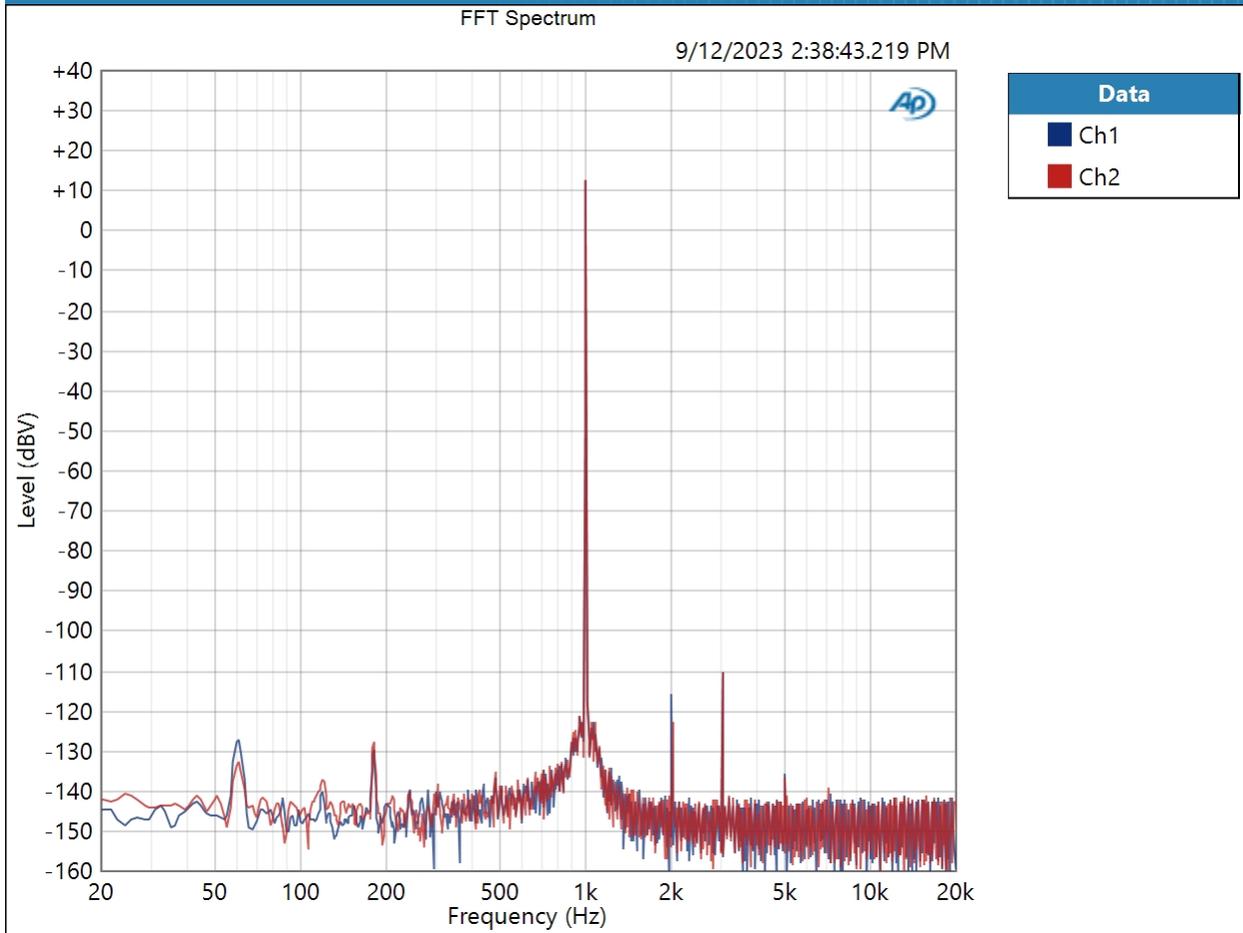
Result: ✓ PASSED

300 Ohm Low Halo : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	4.000 Vrms
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	9/12/2023 2:38:48 PM

Relative Level (1.00000 kHz) (9/12/2023 2:38:48.189 PM)
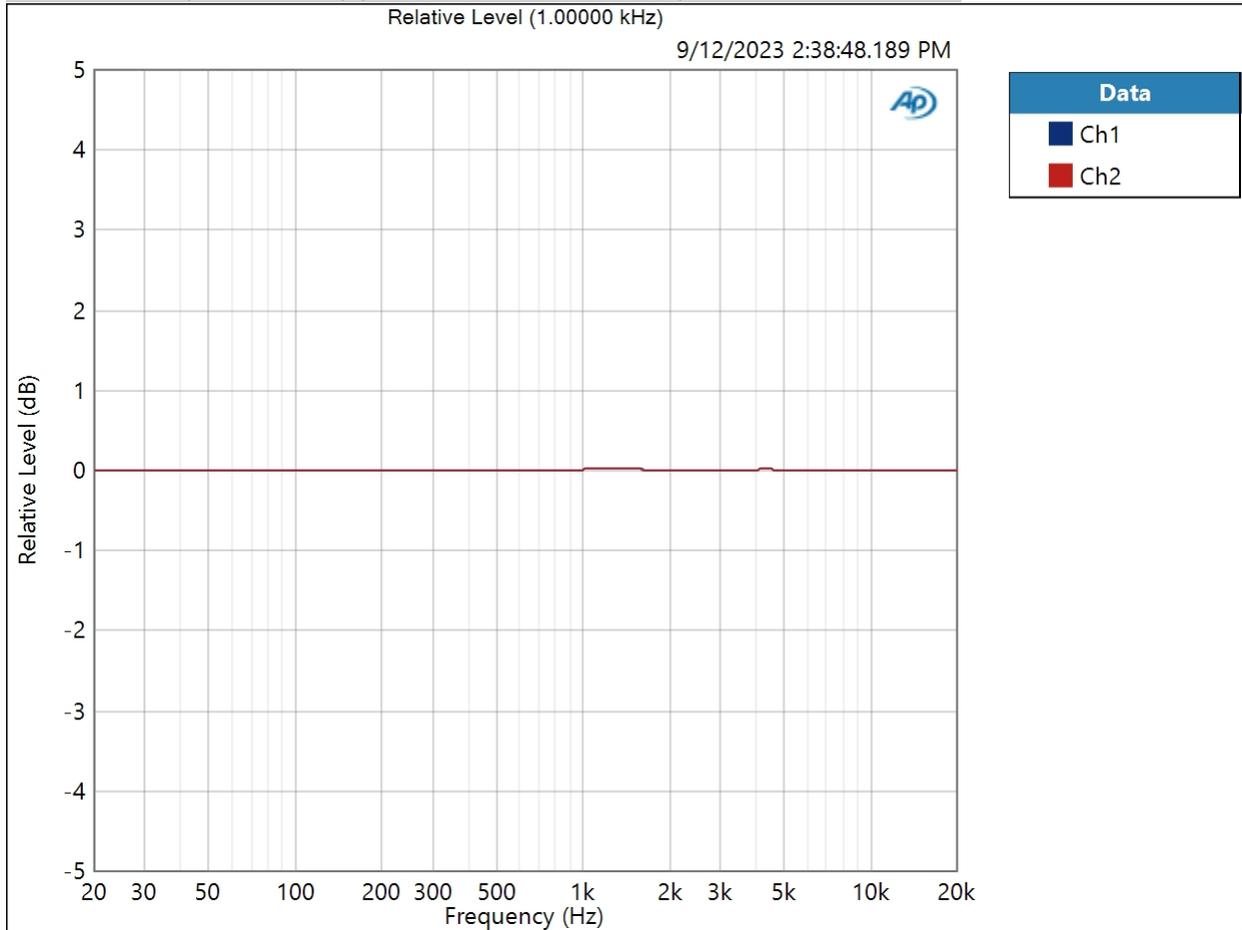
Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 2:38:48.189 PM)

Ch1 ±0.009 dB

Ch2 ±0.009 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm Low Halo : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
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 (9/12/2023 2:38:51.255 PM)

Ch1 129.753 dB

Ch2 129.800 dB

300 Ohm Low Halo : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
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 (9/12/2023 2:38:54.773 PM)

Ch1 0.000119 %
Ch2 0.000114 %

THD Ratio (9/12/2023 2:38:54.773 PM)

Ch1 0.000086 %
Ch2 0.000079 %

Noise Ratio (9/12/2023 2:38:54.773 PM)

Ch1 0.000082 %
Ch2 0.000083 %

Distortion Product Ratio (9/12/2023 2:38:54.773 PM)

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	-128.20	-122.46	-151.73	-146.85	-152.75	-152.09	-152.86	-152.14	-149.45
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-134.73	-122.49	-148.94	-144.74	-151.13	-146.39	-149.81	-149.19	-149.42

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

300 Ohm Low Halo : 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	9/12/2023 2:39:31 PM

CCIF Ratio (9/12/2023 2:39:31.161 PM)
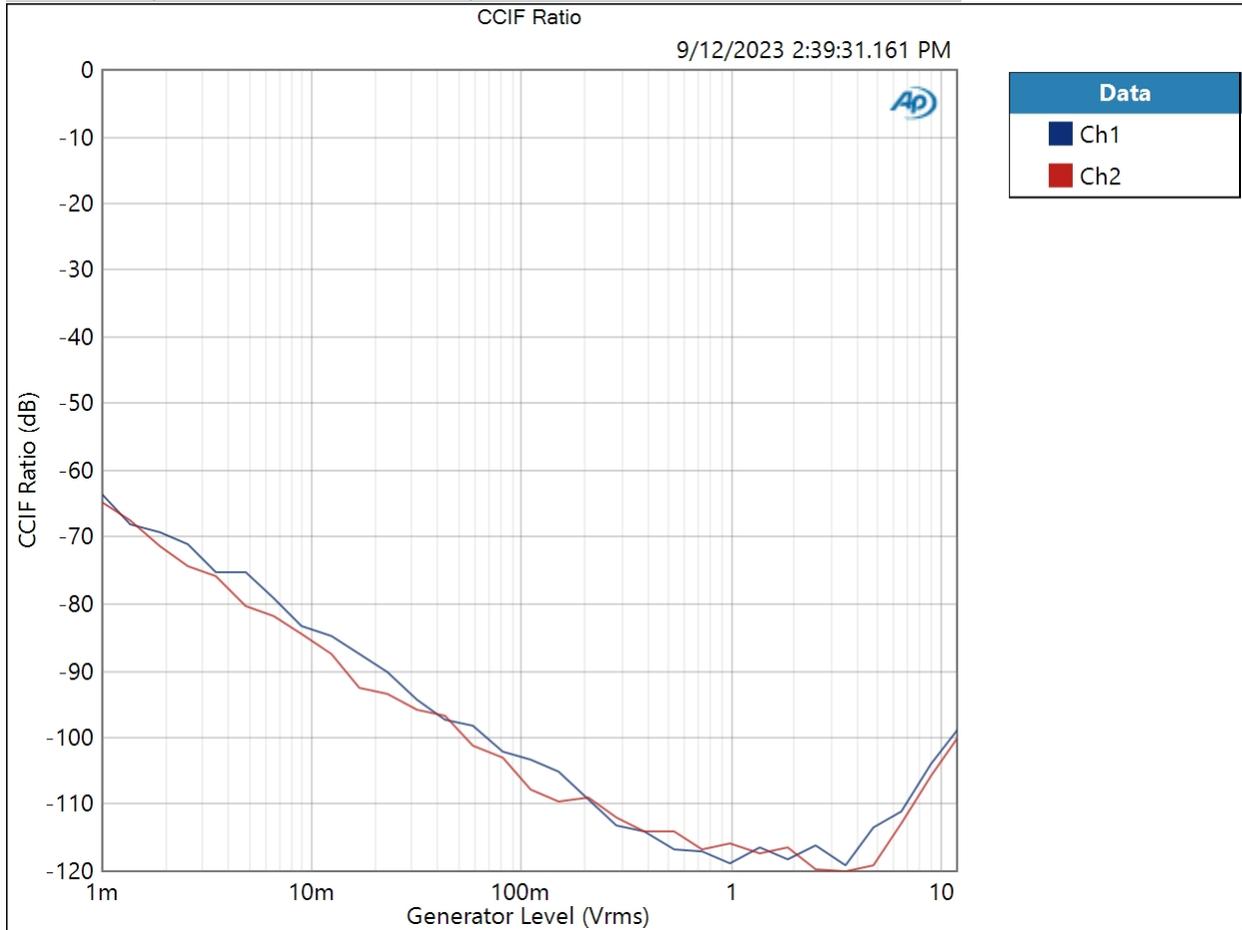
Result: ✔ PASSED

300 Ohm Low Halo : IMD Frequency Sweep (CCIF)

Generator Level:	4.000 Vrms
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	9/12/2023 2:39:41 PM

CCIF Ratio (9/12/2023 2:39:41.885 PM)

CCIF Ratio

9/12/2023 2:39:41.885 PM

Data: Ch1, Ch2
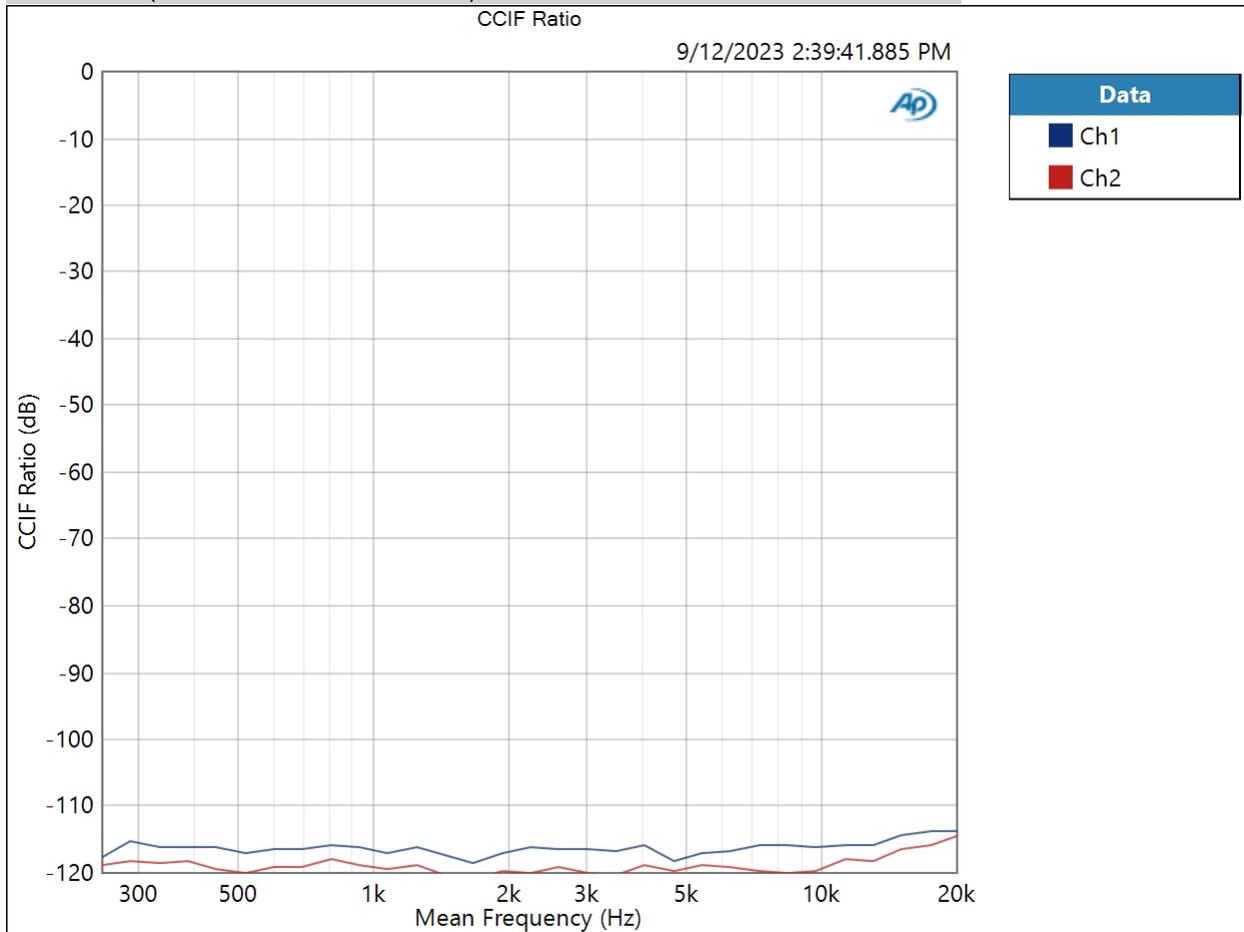
Result: ✅ PASSED

300 Ohm Low Halo : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 2:39:44.358 PM)

Ch1 -94.666 dB
Ch2 -81.922 dB

300 Ohm Low Halo : 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:	13.33 Vrms
Step Type:	Logarithmic
Number of Points:	62
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	9/12/2023 2:41:25 PM

THD+N Ratio vs Measured Level (9/12/2023 2:41:25.521 PM)

THD+N Ratio vs Measured Level
9/12/2023 2:41:25.521 PM

Data	
■	Ch1
■	Ch2

Result: ✓ PASSED

300 Ohm High Halo : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
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:	200 kohm
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 Halo : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	880.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 2:44:41.400 PM)

Ch1 4.004 Vrms
Ch2 4.005 Vrms

300 Ohm High Halo : 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 (9/12/2023 2:44:43.140 PM)

Ch1 -1.646 mV
Ch2 492.9 uV

300 Ohm High Halo : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	880.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 2:44:47 PM
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 (9/12/2023 2:44:47.761 PM)

FFT Spectrum

9/12/2023 2:44:47.761 PM

Data	
■	Ch1
■	Ch2
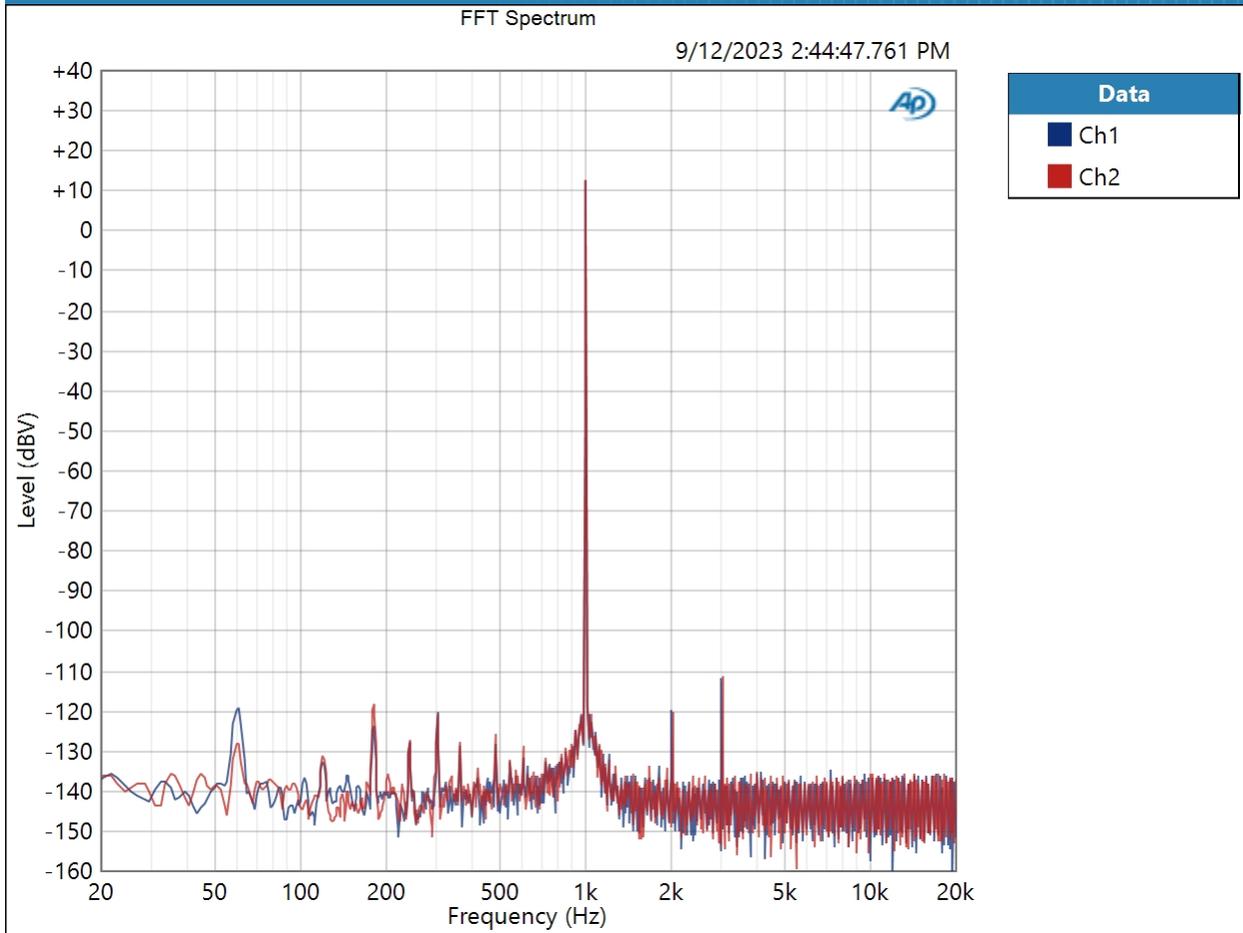
Result: ✔ PASSED

300 Ohm High Halo : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	880.0 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	9/12/2023 2:44:52 PM

Relative Level (1.00000 kHz) (9/12/2023 2:44:52.788 PM)
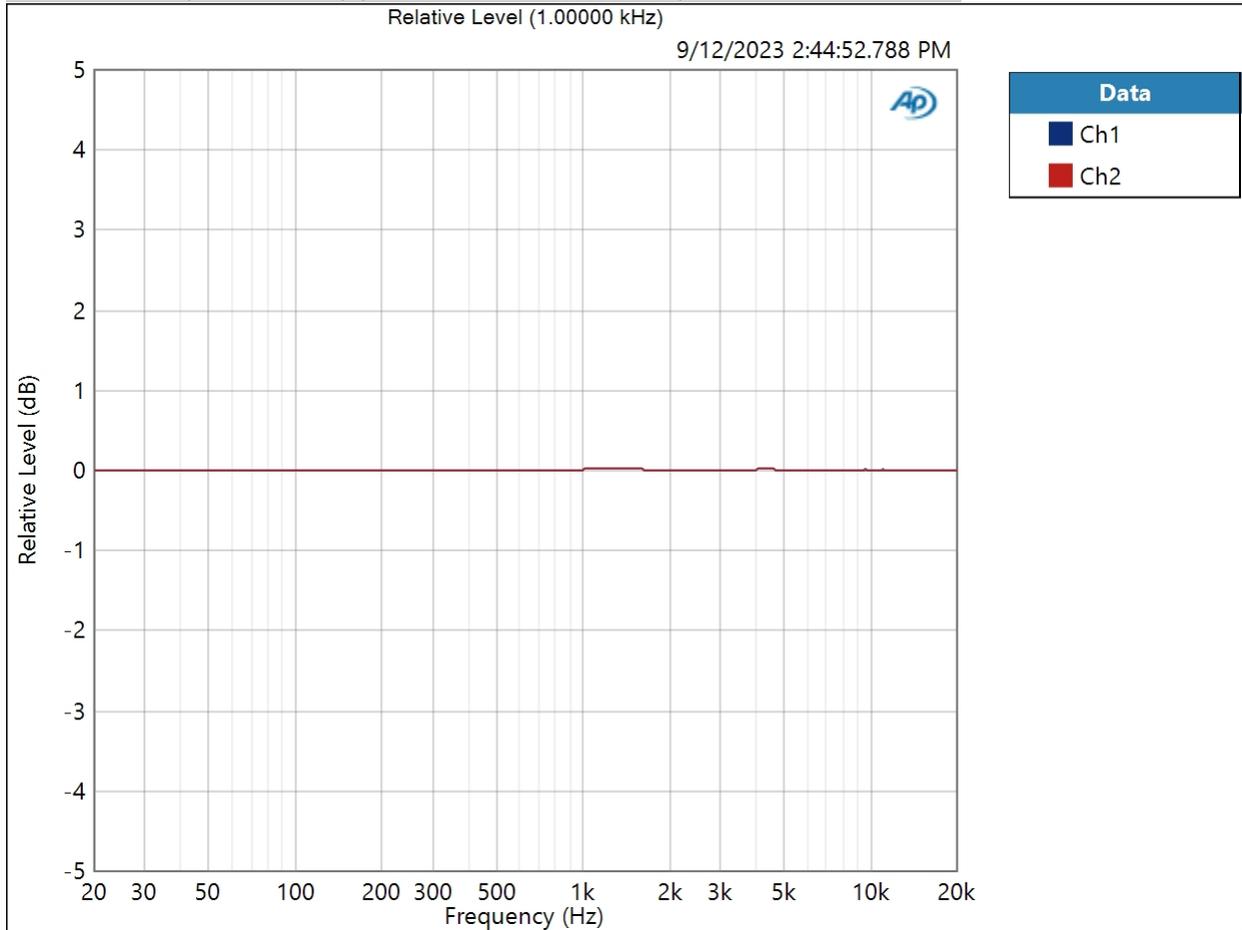
Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 2:44:52.788 PM)

Ch1 ±0.008 dB

Ch2 ±0.009 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High Halo : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	880.0 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 (9/12/2023 2:44:55.847 PM)

Ch1 119.108 dB

Ch2 119.302 dB

300 Ohm High Halo : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	880.0 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 (9/12/2023 2:44:59.165 PM)

Ch1 0.000172 %
Ch2 0.000170 %

THD Ratio (9/12/2023 2:44:59.165 PM)

Ch1 0.000074 %
Ch2 0.000074 %

Noise Ratio (9/12/2023 2:44:59.165 PM)

Ch1 0.000153 %
Ch2 0.000152 %

Distortion Product Ratio (9/12/2023 2:44:59.165 PM)

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	-132.80	-123.44	-144.59	-148.77	-146.92	-147.38	-142.95	-145.49	-146.90
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-130.79	-123.81	-143.32	-142.46	-142.83	-150.66	-143.24	-148.04	-145.25

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

300 Ohm High Halo : 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:	5.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	9/12/2023 2:45:35 PM

CCIF Ratio (9/12/2023 2:45:35.143 PM)
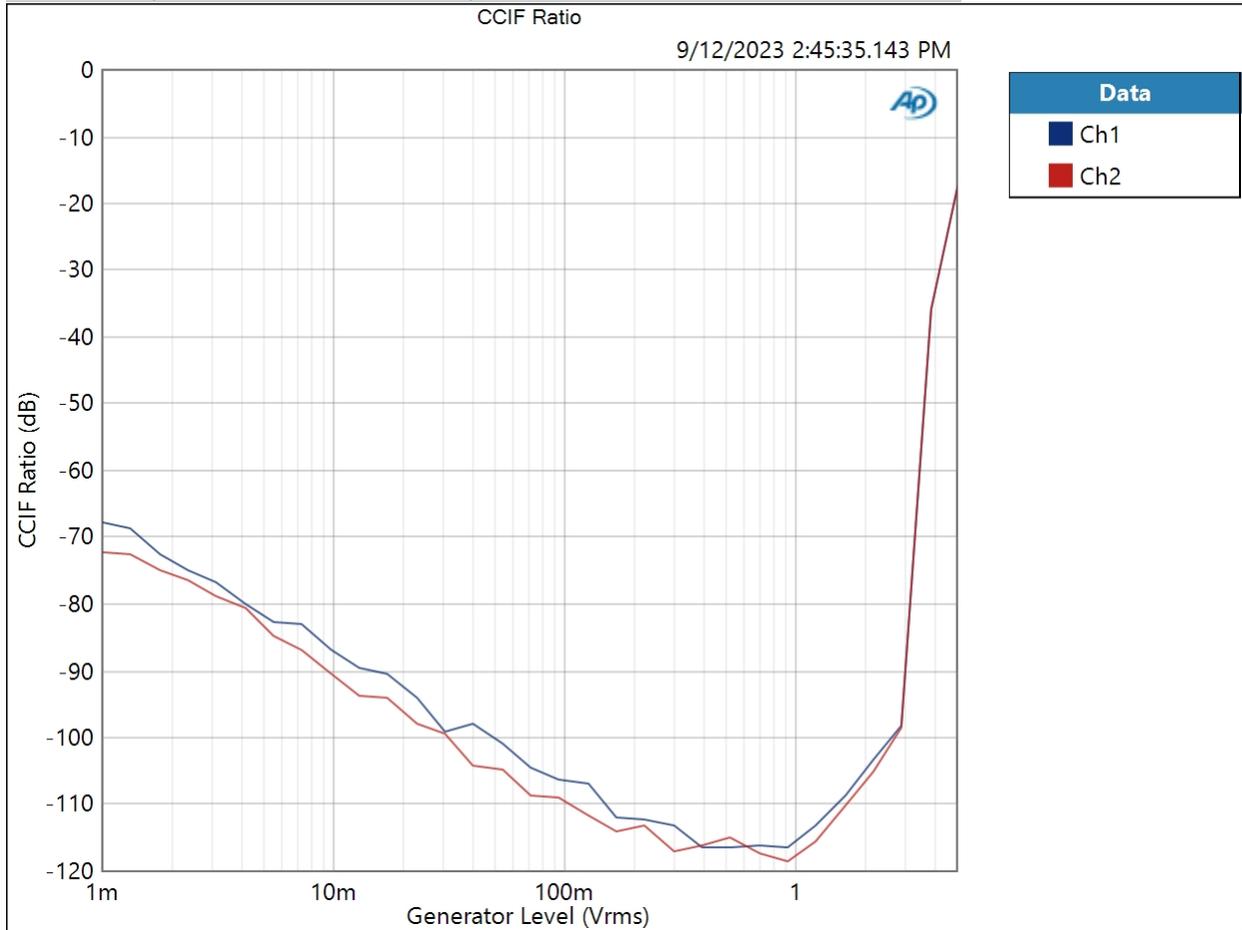
Result: ✔ PASSED

300 Ohm High Halo : IMD Frequency Sweep (CCIF)

Generator Level:	880.0 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	9/12/2023 2:45:45 PM

CCIF Ratio (9/12/2023 2:45:45.890 PM)
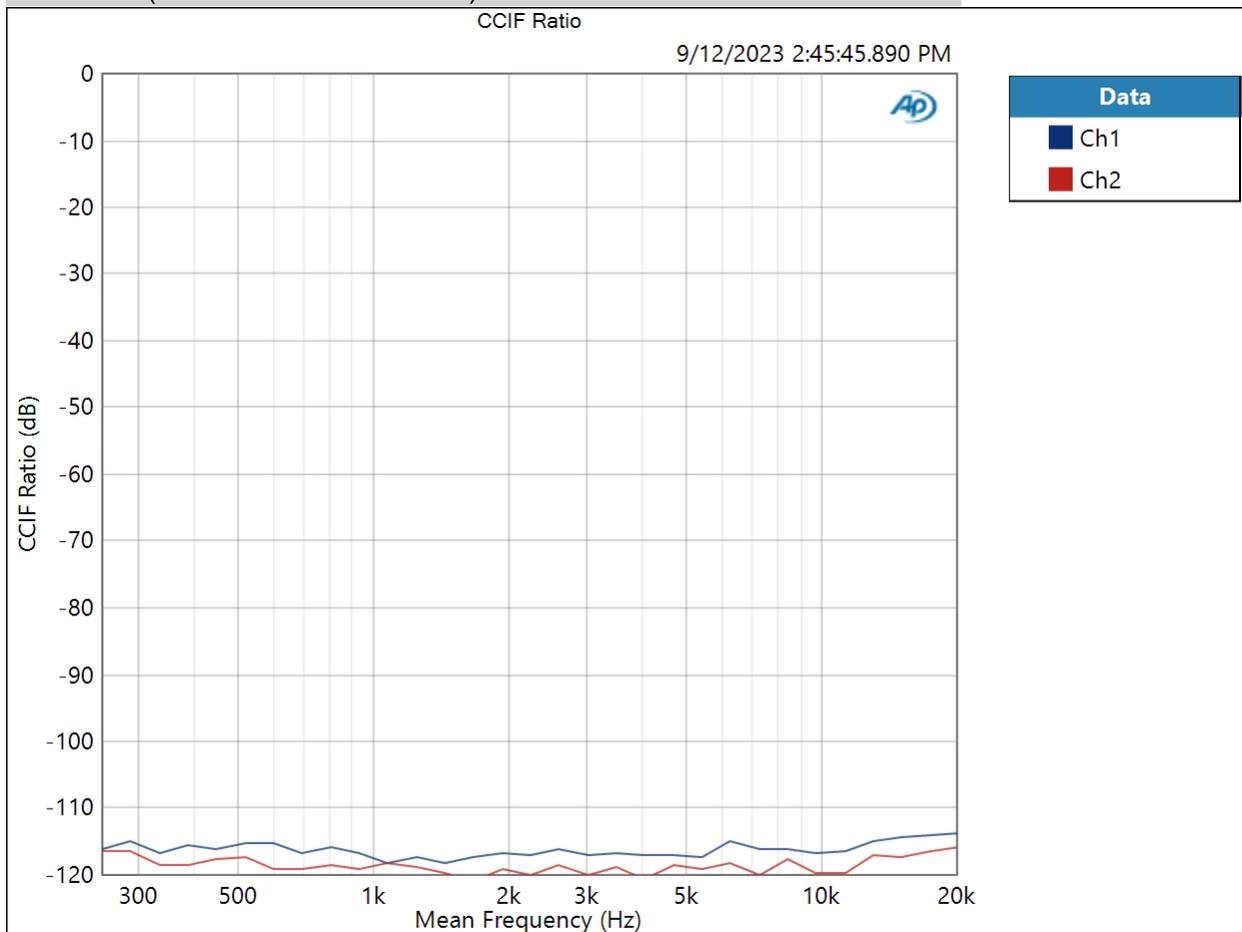
Result: ✅ PASSED

300 Ohm High Halo : Crosstalk, One Channel Undriven

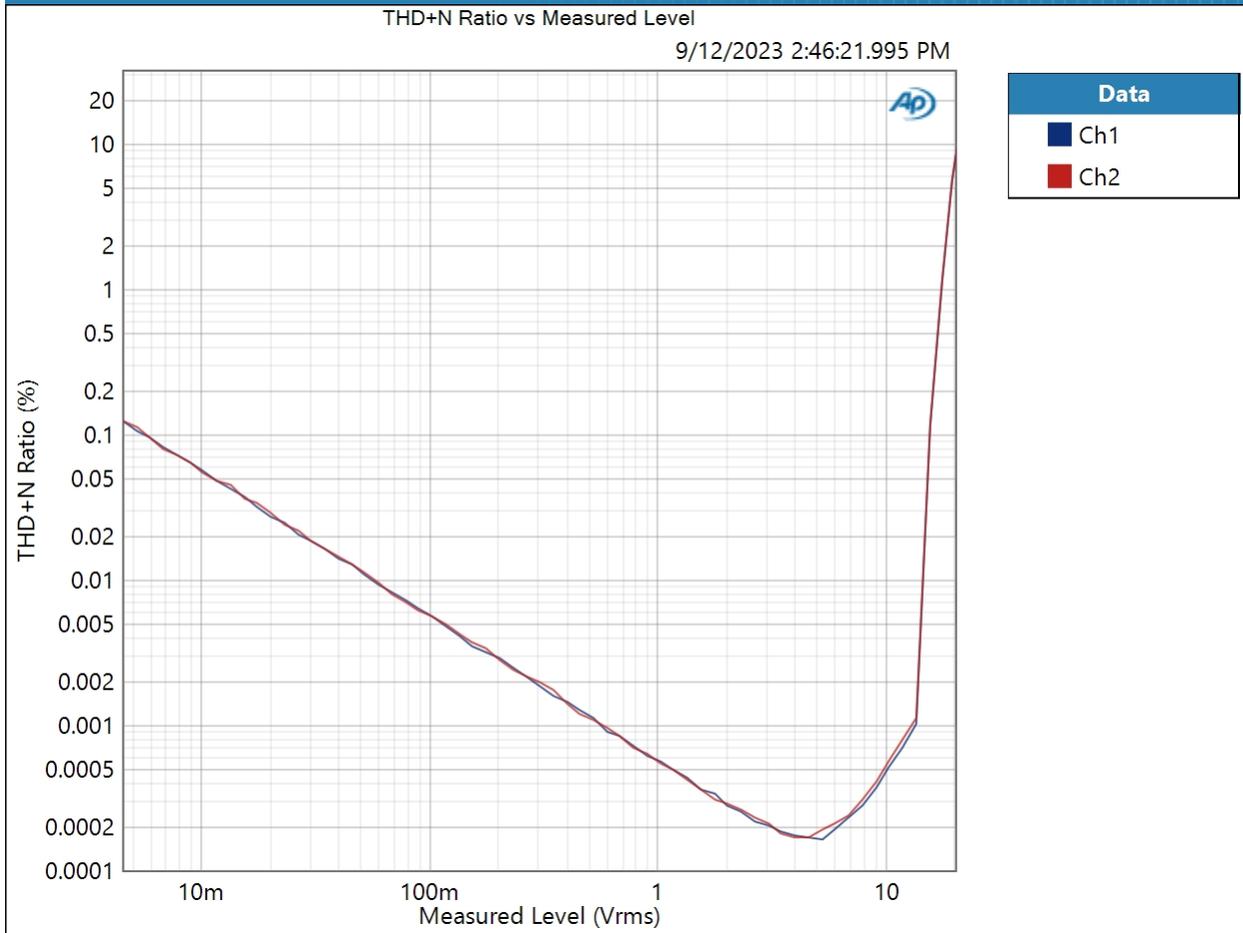|	
Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	880.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 2:45:48.354 PM)

Ch1 -94.397 dB
Ch2 -85.592 dB

300 Ohm High Halo : 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:	5.000 Vrms
Step Type:	Logarithmic
Number of Points:	64
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	9/12/2023 2:46:21 PM

THD+N Ratio vs Measured Level (9/12/2023 2:46:21.995 PM)

THD+N Ratio vs Measured Level

9/12/2023 2:46:21.995 PM

Data
Ch1
Ch2

Result: ✓ PASSED

300 Ohm Low SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Unbalanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	100 kohm
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 SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 3:05:33.961 PM)

Ch1 2.023 Vrms
Ch2 2.024 Vrms

300 Ohm Low SE : 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 (9/12/2023 3:05:35.726 PM)

Ch1 -602.3 uV
Ch2 114.5 uV

300 Ohm Low SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 3:05:40 PM
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 (9/12/2023 3:05:40.428 PM)

FFT Spectrum

9/12/2023 3:05:40.428 PM
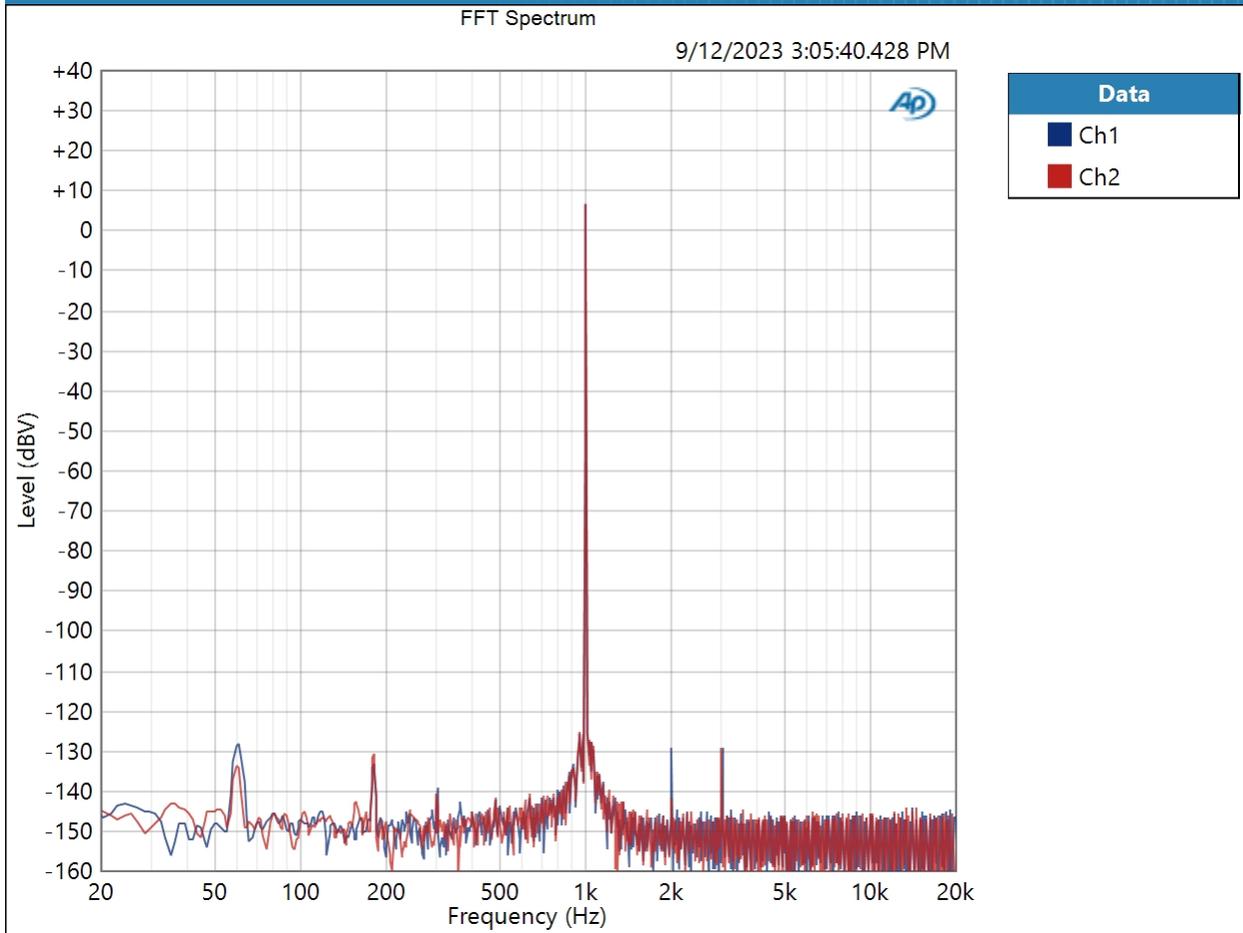
Result: ✓ PASSED

300 Ohm Low SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	1.927 Vrms
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	9/12/2023 3:05:45 PM

Relative Level (1.00000 kHz) (9/12/2023 3:05:45.431 PM)
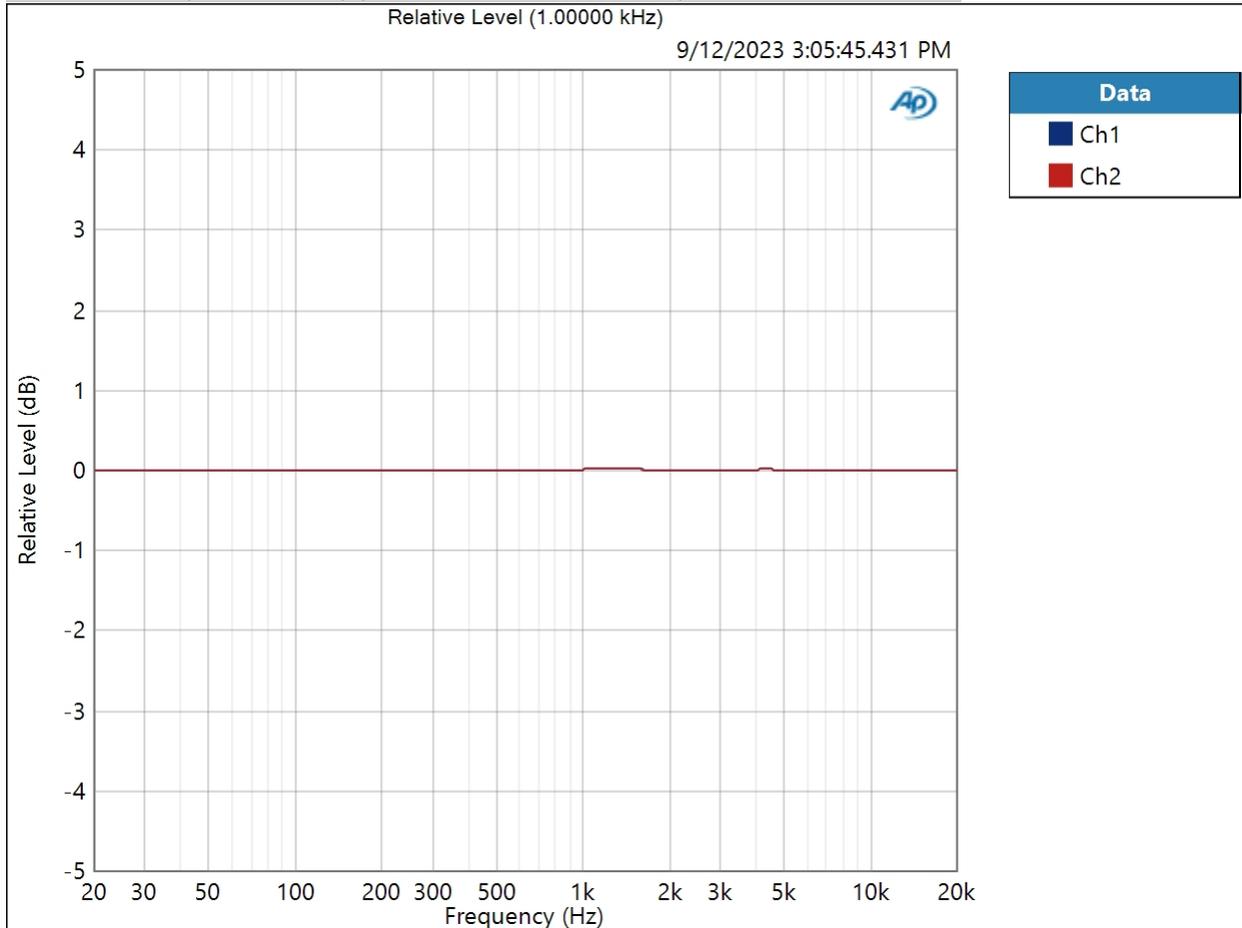
Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 3:05:45.431 PM)

Ch1 ±0.009 dB

Ch2 ±0.009 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm Low SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
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 (9/12/2023 3:05:48.501 PM)

Ch1 123.793 dB

Ch2 123.786 dB

300 Ohm Low SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
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 (9/12/2023 3:05:52.296 PM)

Ch1 0.000109 %
Ch2 0.000107 %

THD Ratio (9/12/2023 3:05:52.296 PM)

Ch1 0.000033 %
Ch2 0.000024 %

Noise Ratio (9/12/2023 3:05:52.296 PM)

Ch1 0.000105 %
Ch2 0.000102 %

Distortion Product Ratio (9/12/2023 3:05:52.296 PM)

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	-132.86	-135.10	-147.38	-148.62	-149.21	-150.59	-146.92	-149.51	-147.81
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-142.04	-135.93	-148.12	-146.62	-148.53	-147.54	-150.39	-148.69	-145.45

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

300 Ohm Low SE : 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	9/12/2023 3:06:13 PM

CCIF Ratio (9/12/2023 3:06:13.231 PM)
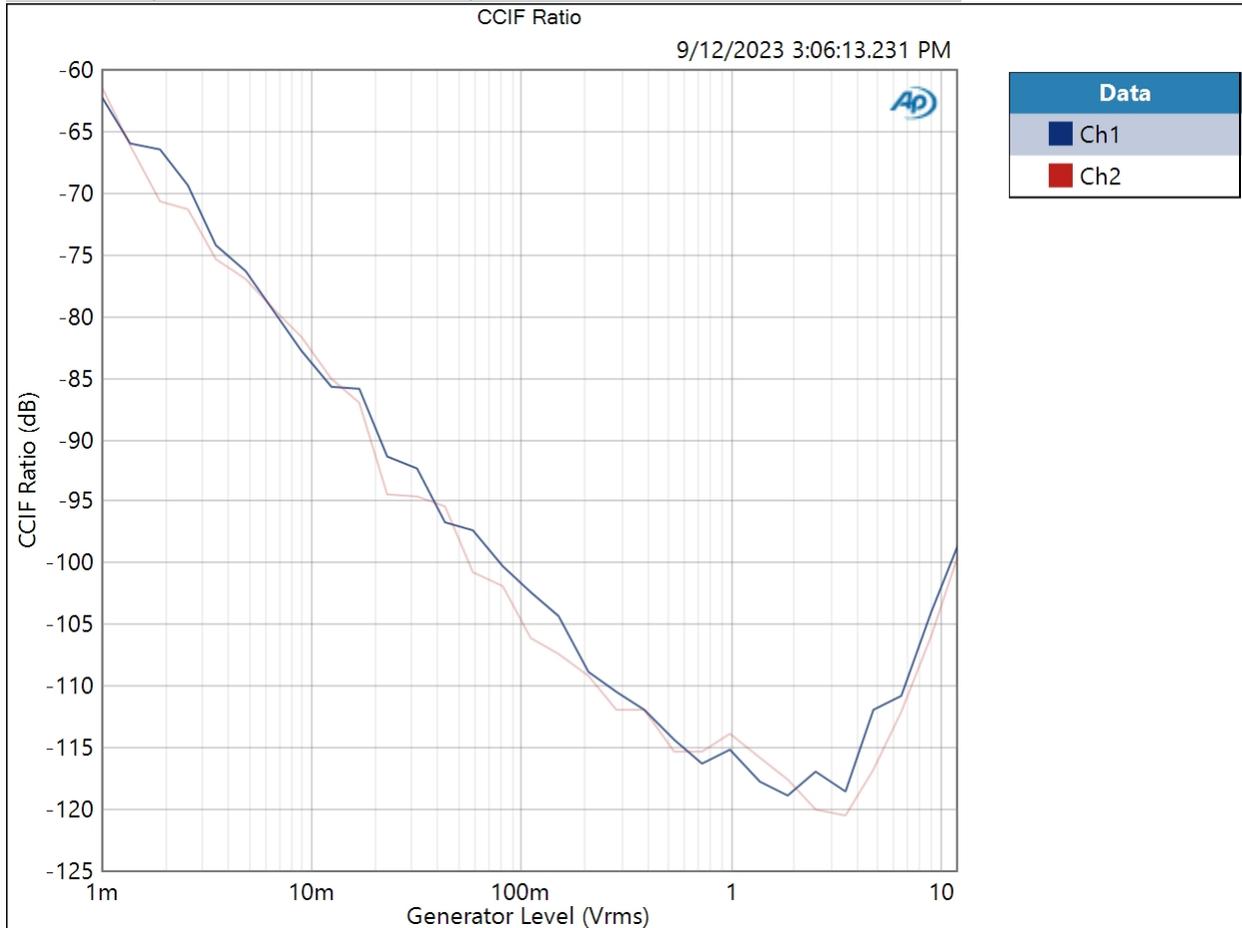
Result: PASSED

300 Ohm Low SE : IMD Frequency Sweep (CCIF)

Generator Level:	2.000 Vrms
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	9/12/2023 3:06:24 PM

CCIF Ratio (9/12/2023 3:06:24.190 PM)
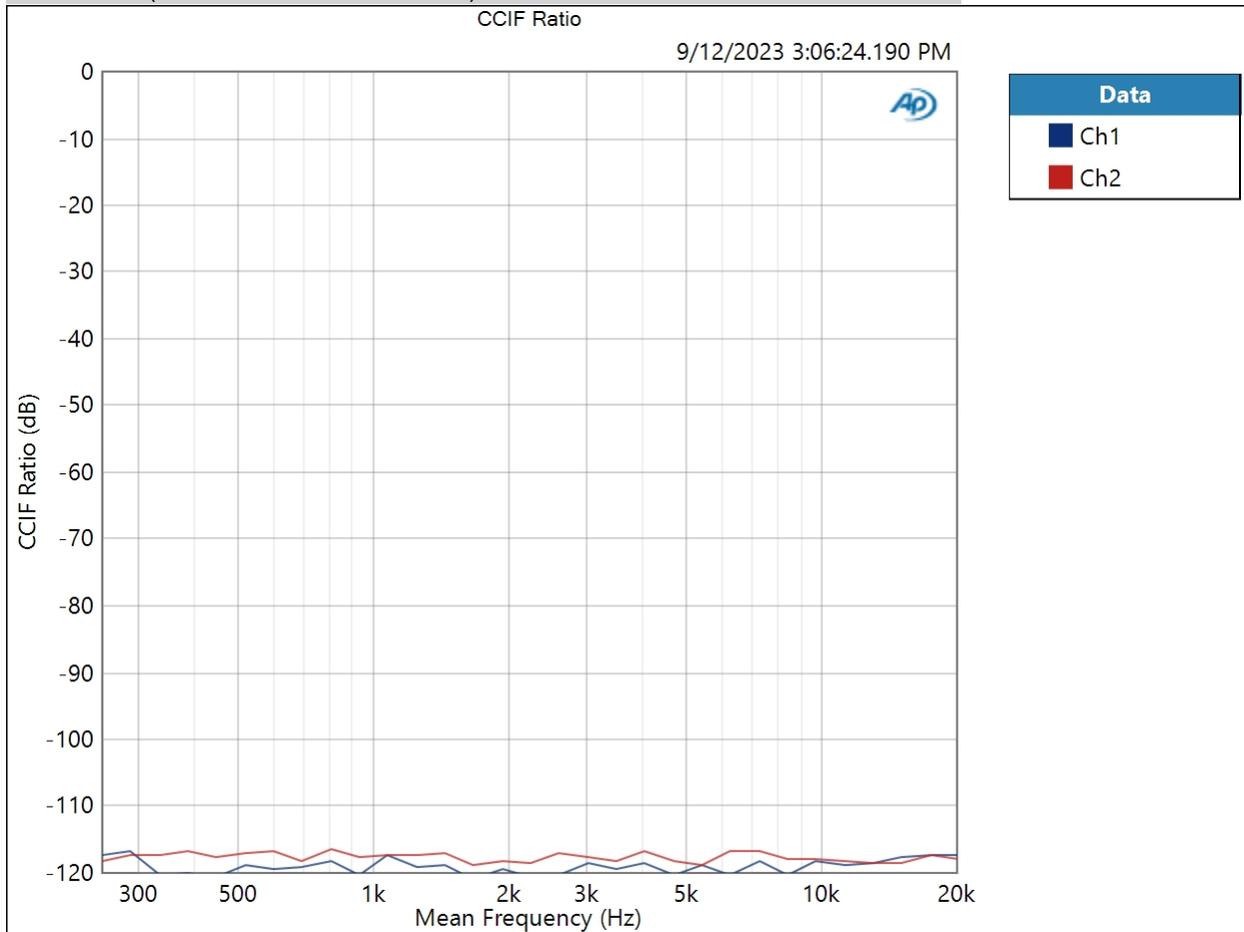
Result: ✔ PASSED

300 Ohm Low SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 3:06:26.629 PM)

Ch1 -97.095 dB
Ch2 -85.376 dB

300 Ohm Low SE : 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	62
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	9/12/2023 3:07:01 PM

THD+N Ratio vs Measured Level (9/12/2023 3:07:01.957 PM)

THD+N Ratio vs Measured Level

9/12/2023 3:07:01.957 PM

Data
■ Ch1
■ Ch2

Result: ✔ PASSED

300 Ohm High SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Unbalanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	100 kohm
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 SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 3:09:34.732 PM)

Ch1 2.002 Vrms
Ch2 2.002 Vrms

300 Ohm High SE : 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 (9/12/2023 3:09:36.482 PM)

Ch1 -1.372 mV
Ch2 -1.262 mV

300 Ohm High SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 3:09:41 PM
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 (9/12/2023 3:09:41.108 PM)

FFT Spectrum

9/12/2023 3:09:41.108 PM

Data
Ch1
Ch2
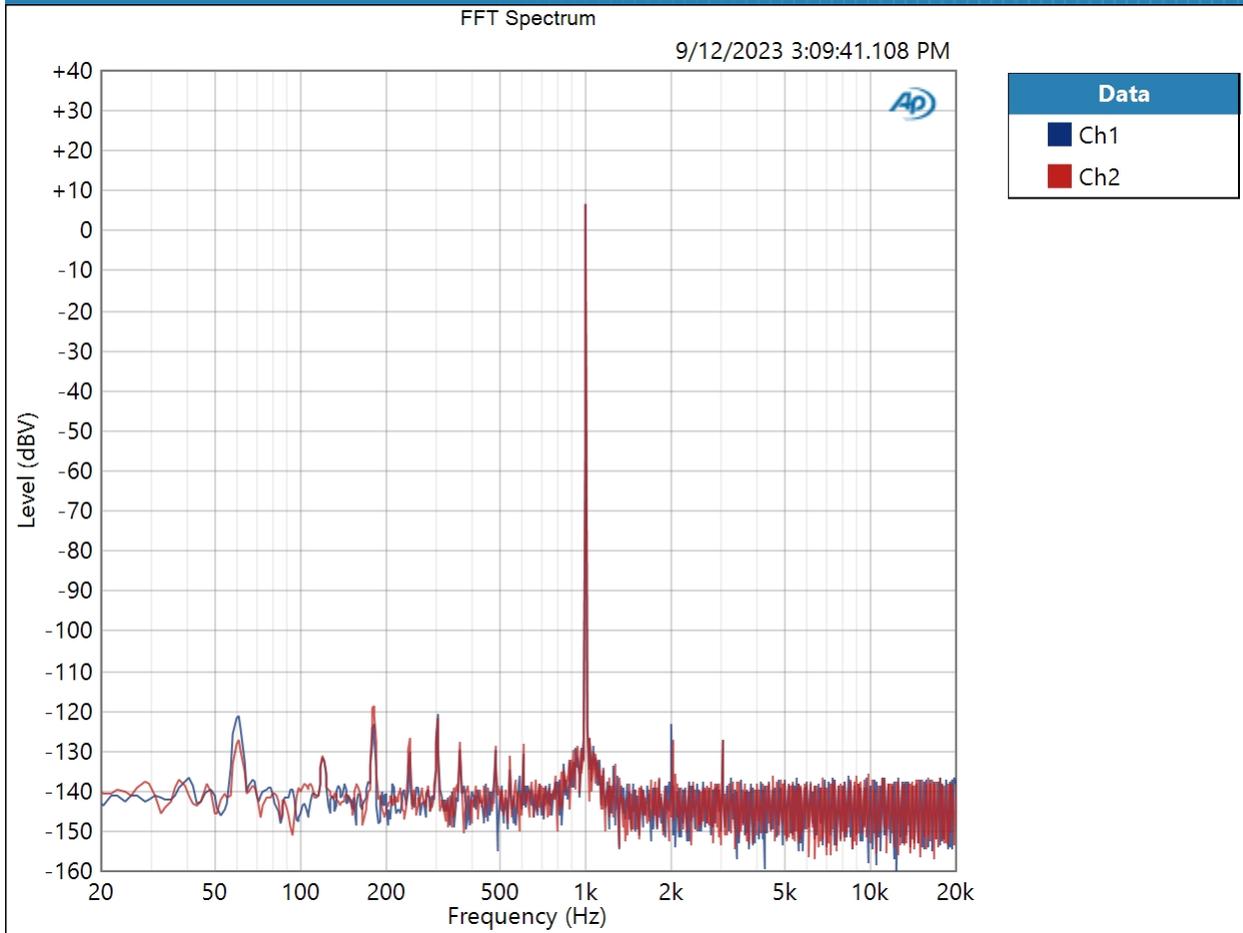
Result: ✔ PASSED

300 Ohm High SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	440.0 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	9/12/2023 3:09:46 PM

Relative Level (1.00000 kHz) (9/12/2023 3:09:46.108 PM)
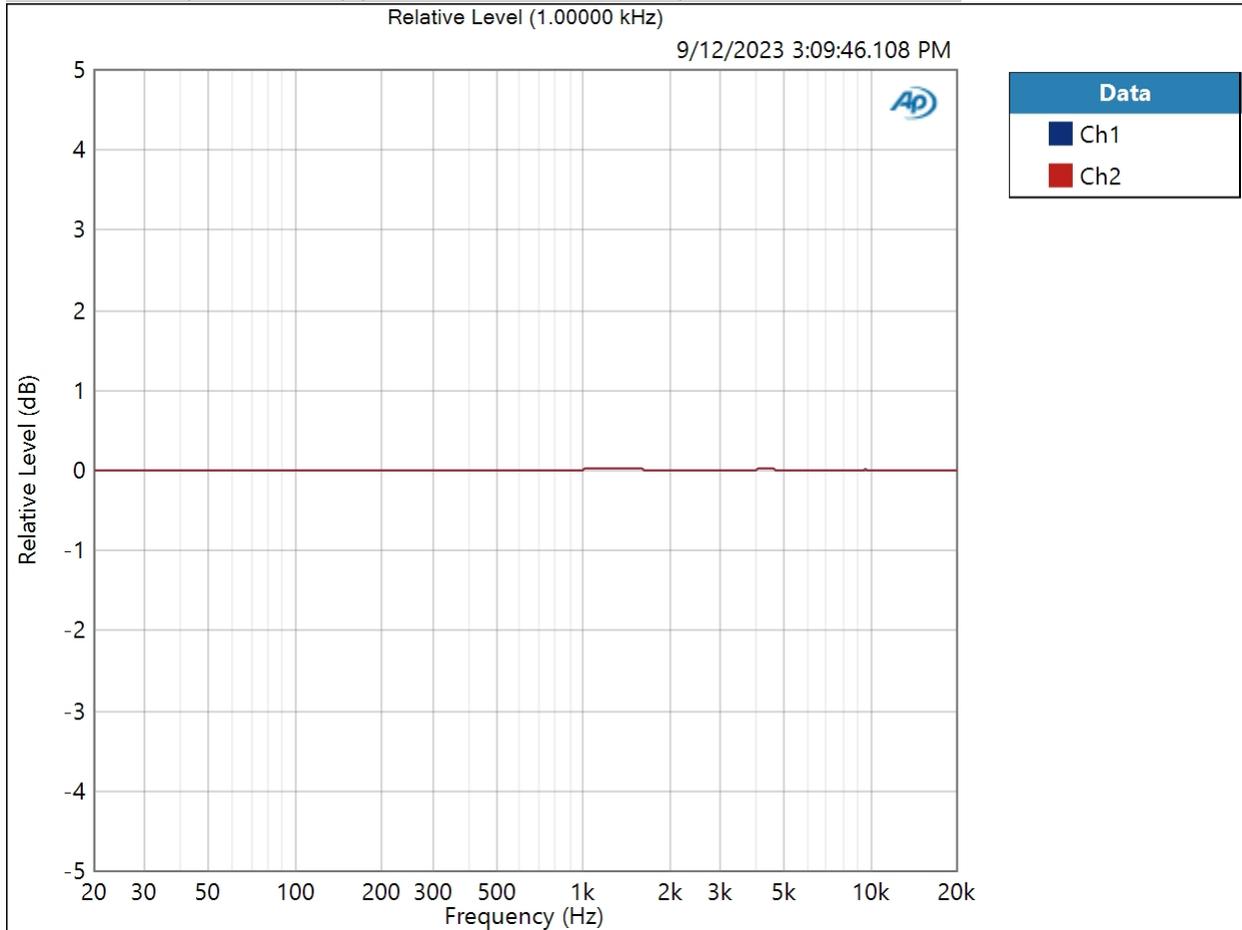
Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 3:09:46.108 PM)

Ch1 ±0.009 dB

Ch2 ±0.009 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 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 (9/12/2023 3:09:49.376 PM)

Ch1 113.252 dB

Ch2 113.183 dB

300 Ohm High SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 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 (9/12/2023 3:09:52.782 PM)

Ch1 0.000291 %
Ch2 0.000290 %

THD Ratio (9/12/2023 3:09:52.782 PM)

Ch1 0.000063 %
Ch2 0.000055 %

Noise Ratio (9/12/2023 3:09:52.782 PM)

Ch1 0.000286 %
Ch2 0.000282 %

Distortion Product Ratio (9/12/2023 3:09:52.782 PM)

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	-128.06	-132.57	-146.39	-139.11	-141.27	-139.36	-138.60	-135.35	-142.07
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-132.54	-132.00	-137.96	-138.75	-138.79	-142.42	-144.09	-140.00	-136.07

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

300 Ohm High SE : 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	9/12/2023 3:10:28 PM

CCIF Ratio (9/12/2023 3:10:28.712 PM)
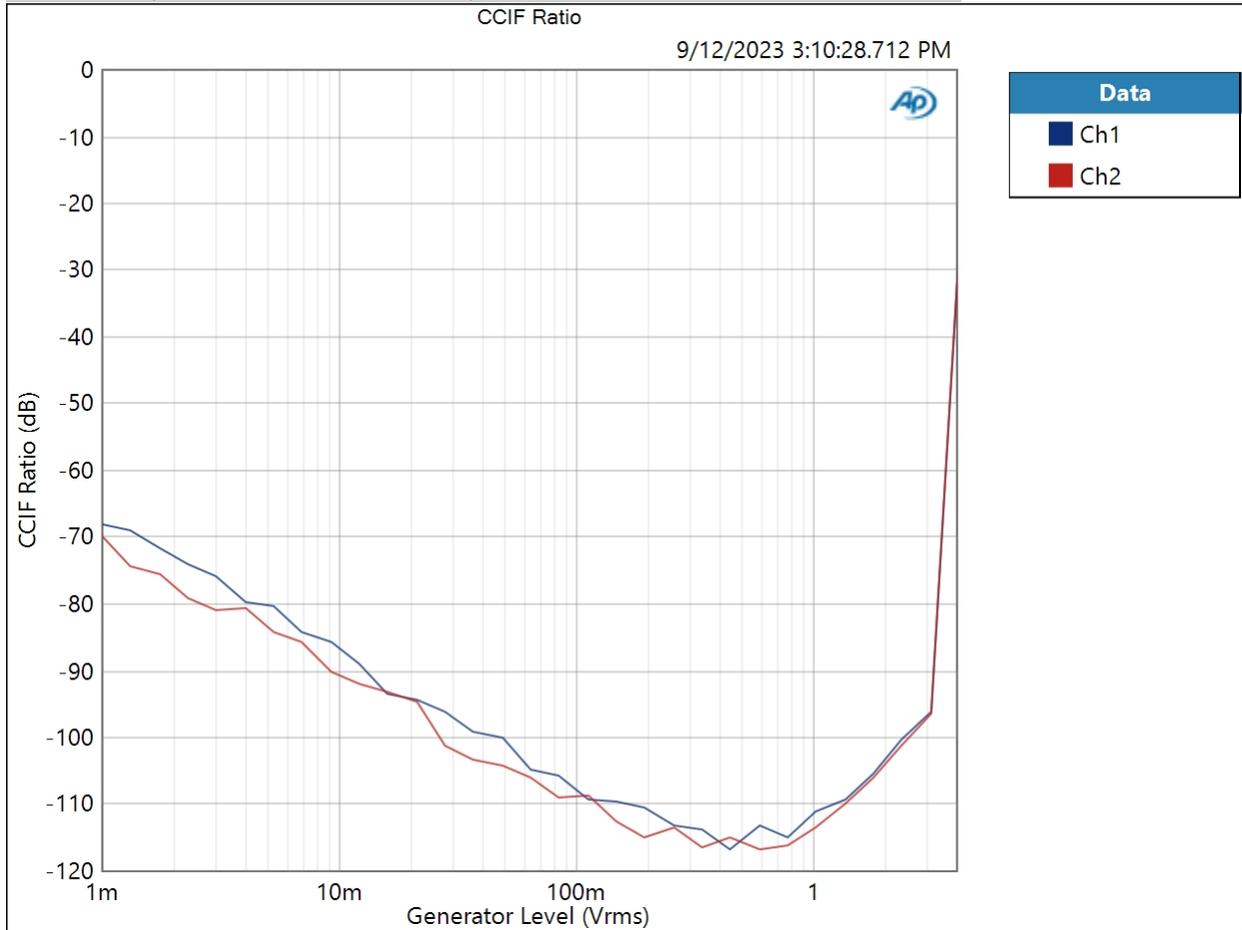
Result: ✓ PASSED

300 Ohm High SE : IMD Frequency Sweep (CCIF)

Generator Level:	440.0 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	9/12/2023 3:10:39 PM

CCIF Ratio (9/12/2023 3:10:39.468 PM)
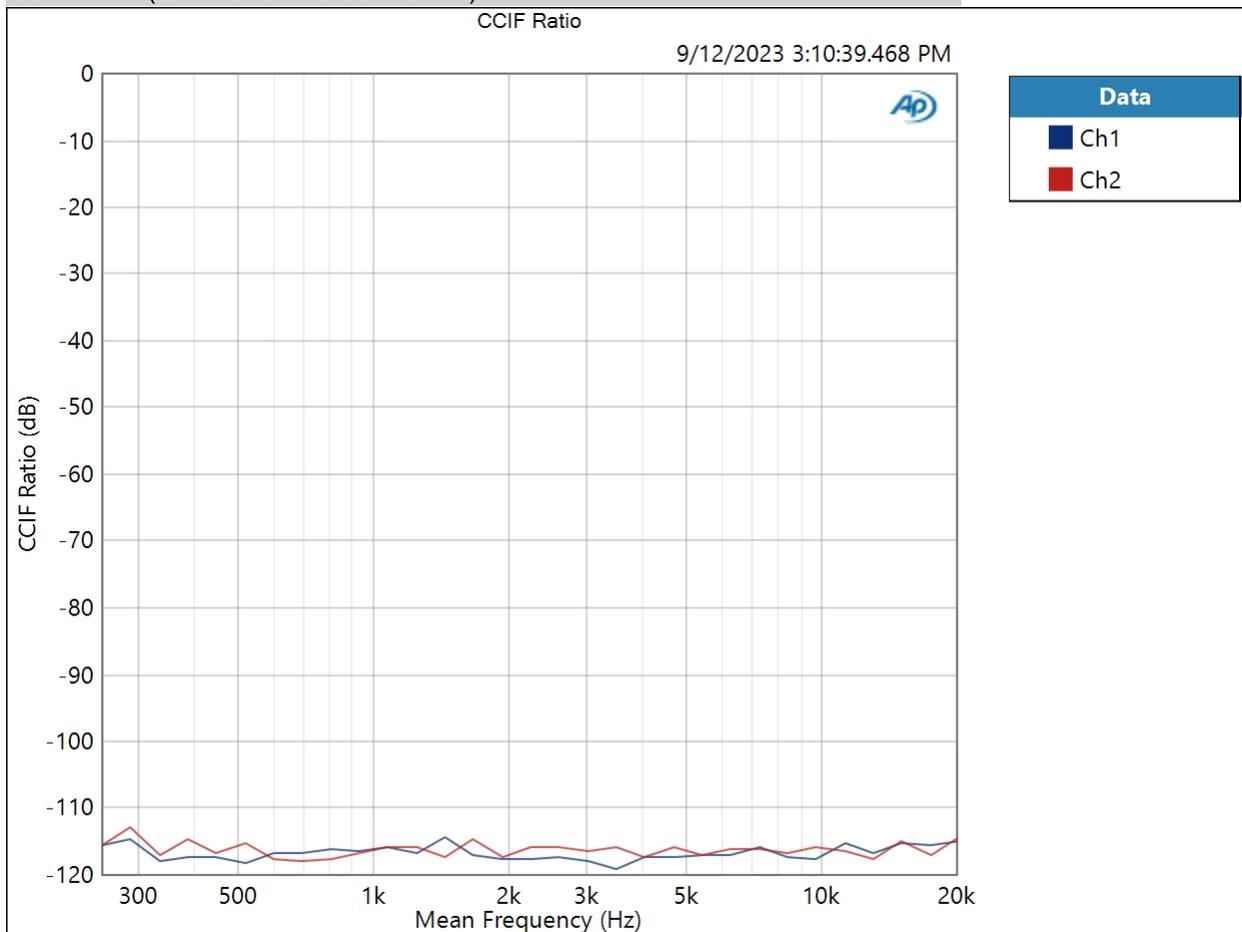
Result: ✅ PASSED

300 Ohm High SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 3:10:42.052 PM)

Ch1 -93.981 dB
Ch2 -85.096 dB

300 Ohm High SE : 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:	62
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	9/12/2023 3:11:14 PM

THD+N Ratio vs Measured Level (9/12/2023 3:11:14.666 PM)

THD+N Ratio vs Measured Level

9/12/2023 3:11:14.666 PM

Result: ✓ PASSED

32 Ohm Low Halo : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
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:	200 kohm
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 Halo : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 2:50:17.560 PM)

Ch1 3.809 Vrms
Ch2 3.809 Vrms

32 Ohm Low Halo : 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 (9/12/2023 2:50:19.303 PM)

Ch1 -61.04 uV
Ch2 1.607 uV

32 Ohm Low Halo : Signal Analyzer

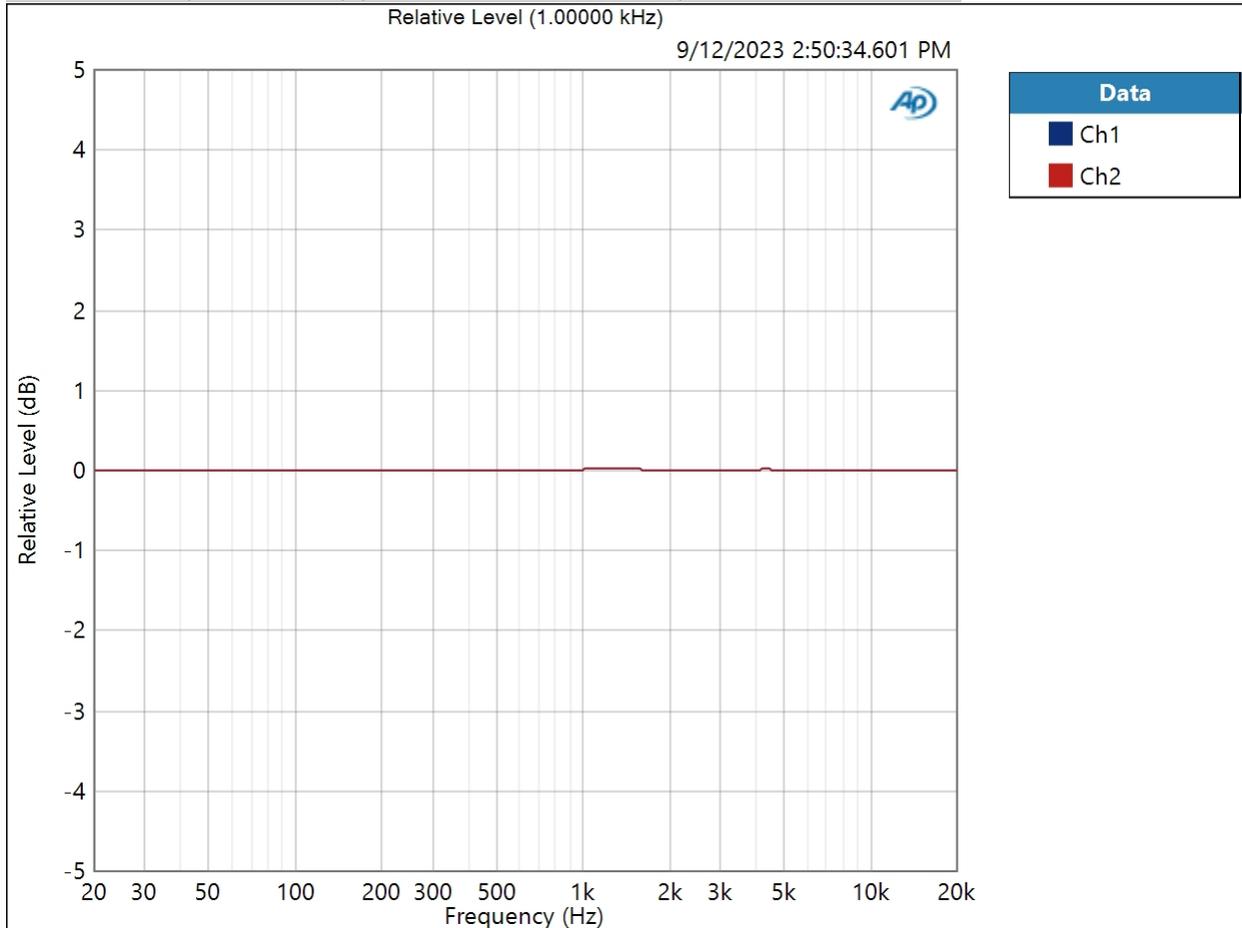|	
Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 2:50:23 PM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (9/12/2023 2:50:23.989 PM)

FFT Spectrum

9/12/2023 2:50:23.989 PM
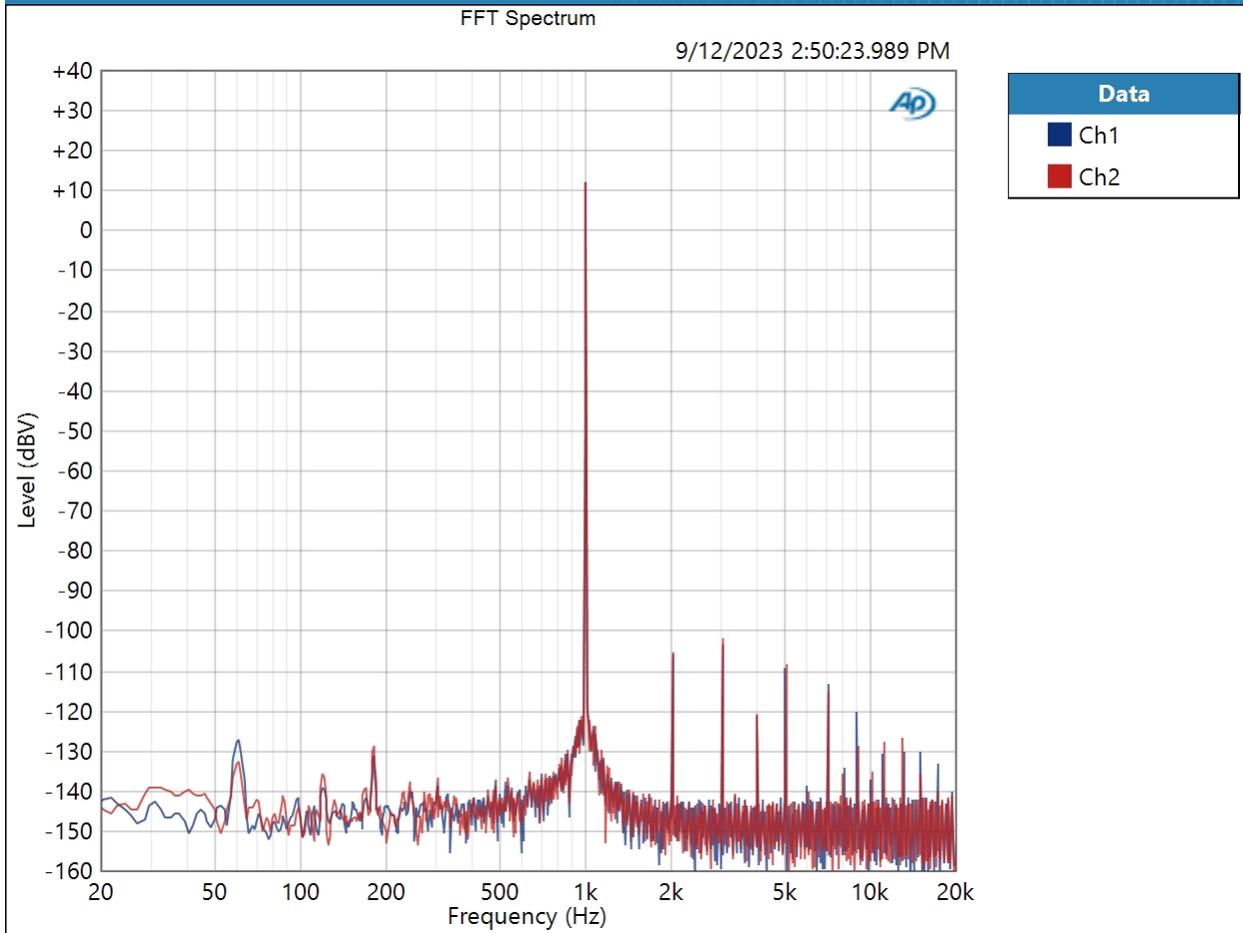
Result: PASSED

32 Ohm Low Halo : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	4.000 Vrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	1.000 s
Sweep:	1.000 s
Extend Acquisition By:	2.000 s
Secondary Source:	None
Measured 1	9/12/2023 2:50:34 PM

Relative Level (1.00000 kHz) (9/12/2023 2:50:34.601 PM)

Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 2:50:34.601 PM)

Ch1 ±0.009 dB

Ch2 ±0.010 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm Low Halo : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
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 (9/12/2023 2:50:37.695 PM)

Ch1 129.665 dB

Ch2 129.570 dB

32 Ohm Low Halo : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
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 (9/12/2023 2:50:41.342 PM)

Ch1 0.000364 %
Ch2 0.000382 %

THD Ratio (9/12/2023 2:50:41.342 PM)

Ch1 0.000259 %
Ch2 0.000284 %

Noise Ratio (9/12/2023 2:50:41.342 PM)

Ch1 0.000086 %
Ch2 0.000085 %

Distortion Product Ratio (9/12/2023 2:50:41.342 PM)

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	-117.84	-114.36	-133.10	-120.20	-147.56	-124.84	-145.11	-133.73	-147.58
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-117.33	-113.08	-132.74	-119.81	-148.62	-128.61	-147.22	-148.76	-146.22

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

32 Ohm Low Halo : 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	9/12/2023 2:51:17 PM

CCIF Ratio (9/12/2023 2:51:17.589 PM)
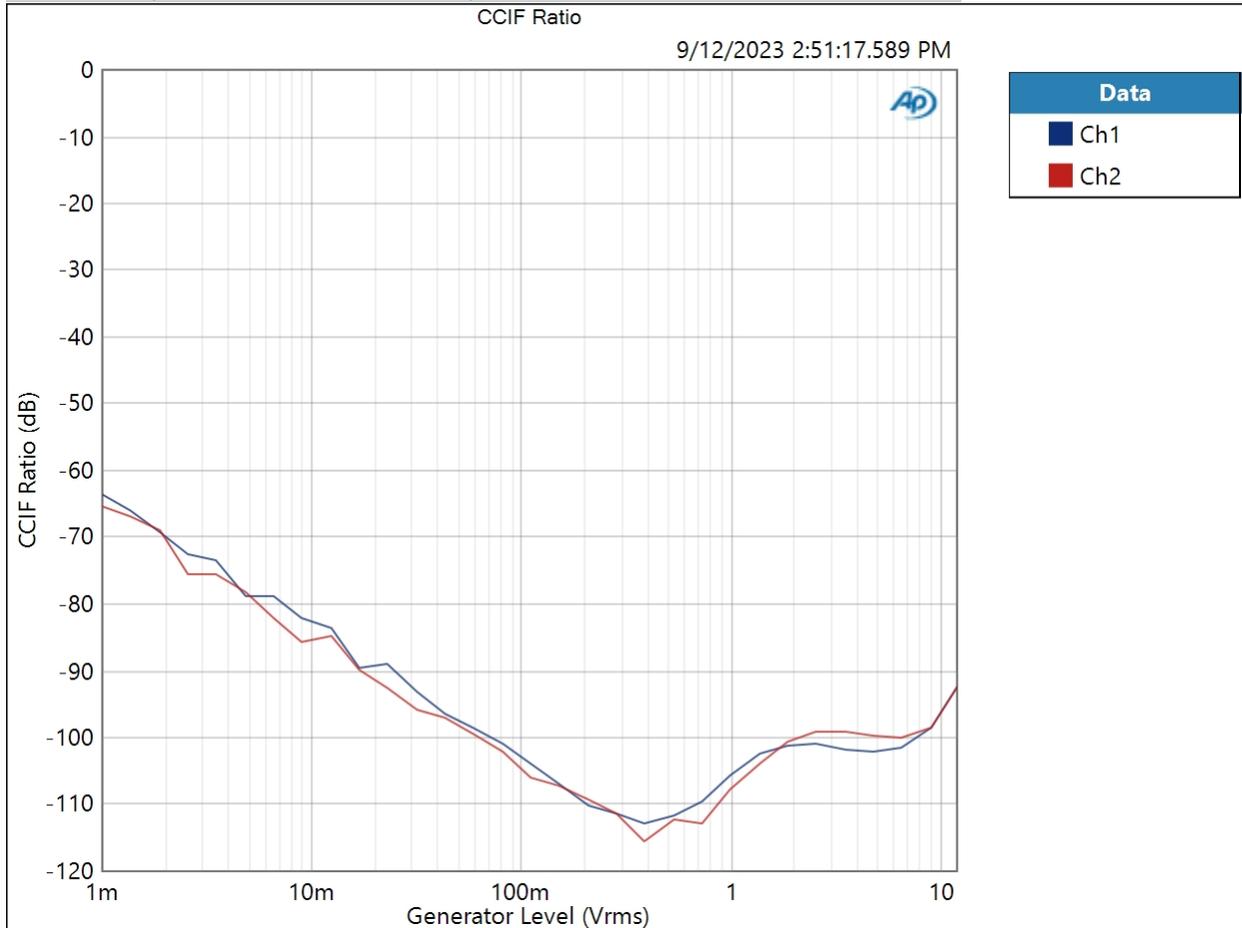
Result: ✔ PASSED

32 Ohm Low Halo : IMD Frequency Sweep (CCIF)

Generator Level:	4.000 Vrms
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	9/12/2023 2:55:21 PM

CCIF Ratio (9/12/2023 2:55:21.895 PM)
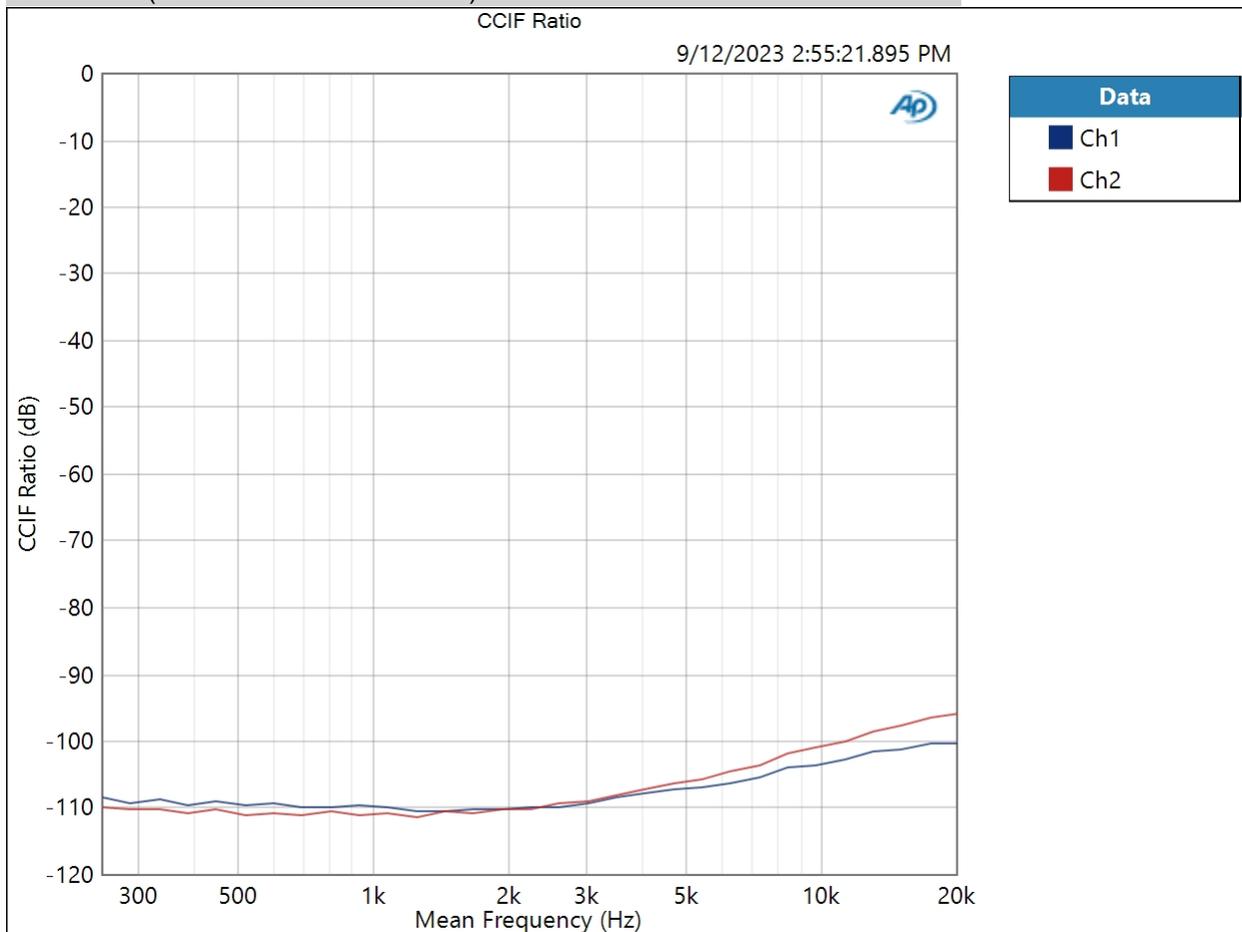
Result: ✅ PASSED

32 Ohm Low Halo : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	3.851 Vrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 2:51:30.910 PM)

Ch1 -72.457 dB
Ch2 -70.687 dB

32 Ohm Low Halo : 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	64
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	9/12/2023 2:52:05 PM

THD+N Ratio vs Measured Level (9/12/2023 2:52:05.410 PM)

THD+N Ratio vs Measured Level
9/12/2023 2:52:05.410 PM

Data	
■	Ch1
■	Ch2

Result: ✓ PASSED

32 Ohm High Halo : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
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:	200 kohm
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 High Halo : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	890.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 2:55:58.575 PM)

Ch1 3.807 Vrms
Ch2 3.807 Vrms

32 Ohm High Halo : 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 (9/12/2023 2:56:00.334 PM)

Ch1 -5.714 mV
Ch2 -8.661 mV

32 Ohm High Halo : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	890.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 2:56:04 PM
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 (9/12/2023 2:56:04.987 PM)

FFT Spectrum

9/12/2023 2:56:04.987 PM
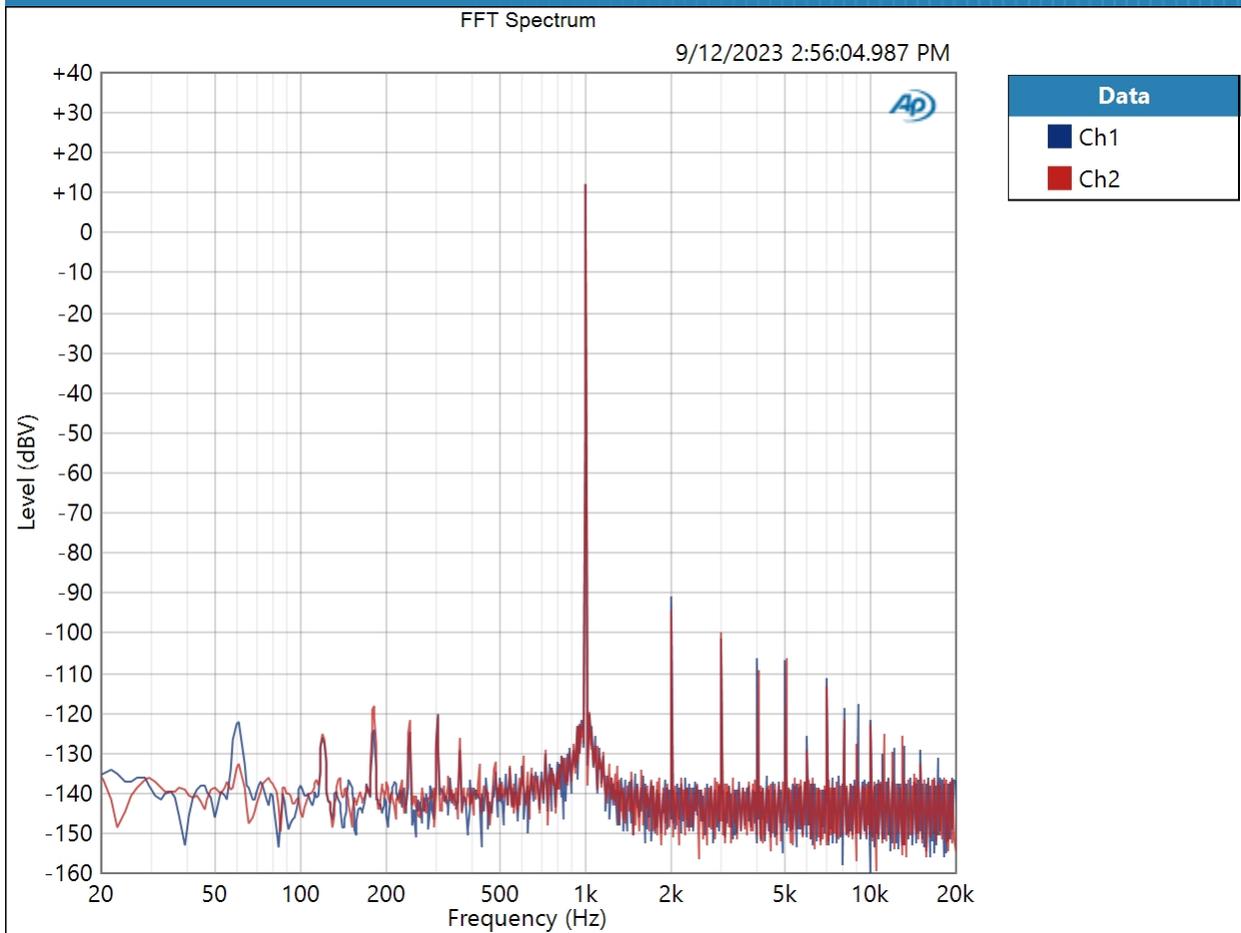
Result: ✅ PASSED

32 Ohm High Halo : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	890.0 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	9/12/2023 2:56:10 PM

Relative Level (1.00000 kHz) (9/12/2023 2:56:10.253 PM)
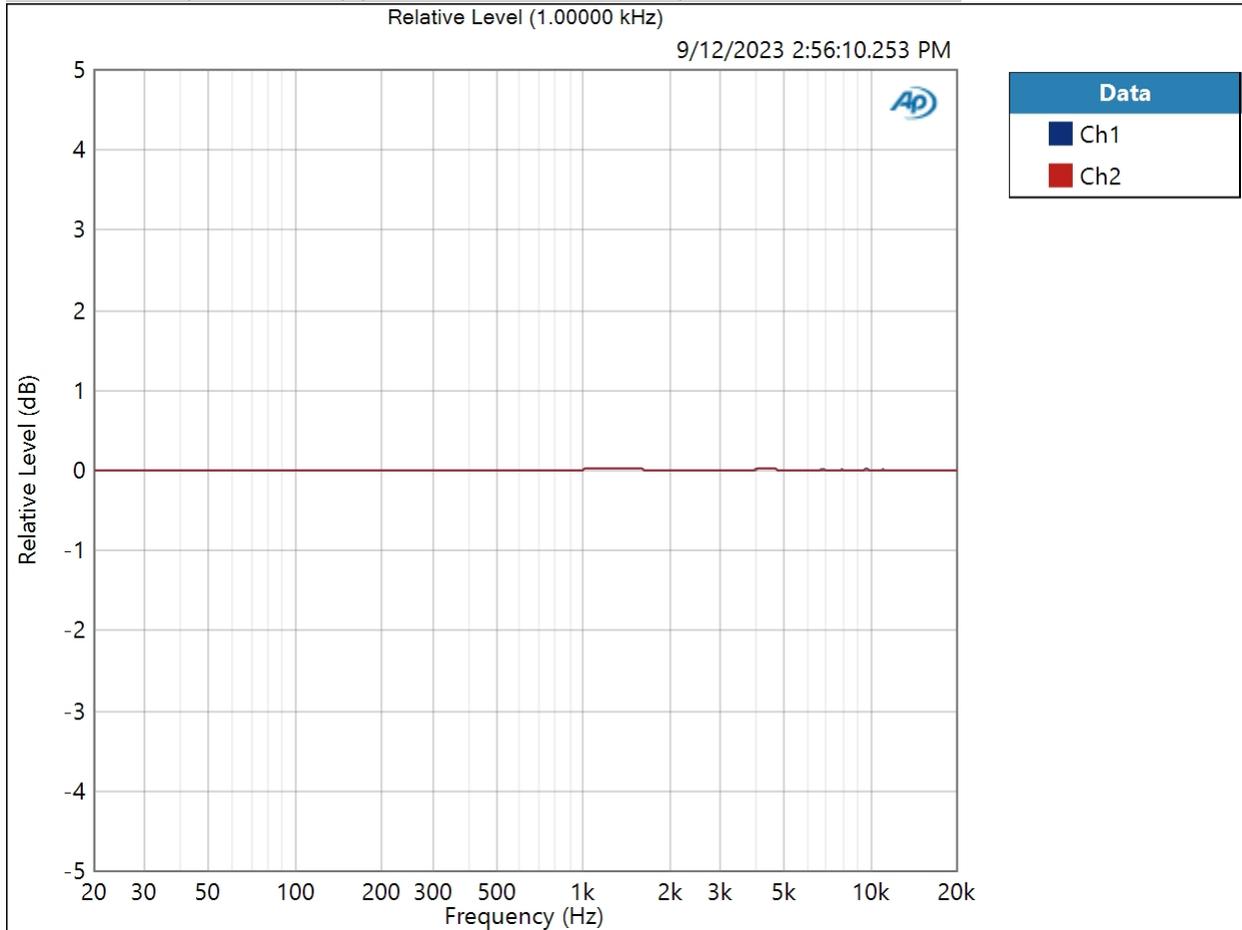
Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 2:56:10.253 PM)

Ch1 ±0.009 dB

Ch2 ±0.010 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm High Halo : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	890.0 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 (9/12/2023 2:56:13.297 PM)

Ch1 119.376 dB

Ch2 119.217 dB

32 Ohm High Halo : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	890.0 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 (9/12/2023 2:56:17.022 PM)

Ch1 0.000997 %
Ch2 0.000832 %

THD Ratio (9/12/2023 2:56:17.022 PM)

Ch1 0.000794 %
Ch2 0.000582 %

Noise Ratio (9/12/2023 2:56:17.022 PM)

Ch1 0.000160 %
Ch2 0.000160 %

Distortion Product Ratio (9/12/2023 2:56:17.022 PM)

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	-102.69	-112.69	-118.90	-117.97	-135.09	-122.71	-128.19	-132.07	-132.78
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-106.33	-111.07	-121.96	-117.69	-141.56	-125.79	-132.38	-145.63	-135.03

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

32 Ohm High Halo : 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	9/12/2023 2:56:52 PM

CCIF Ratio (9/12/2023 2:56:52.876 PM)
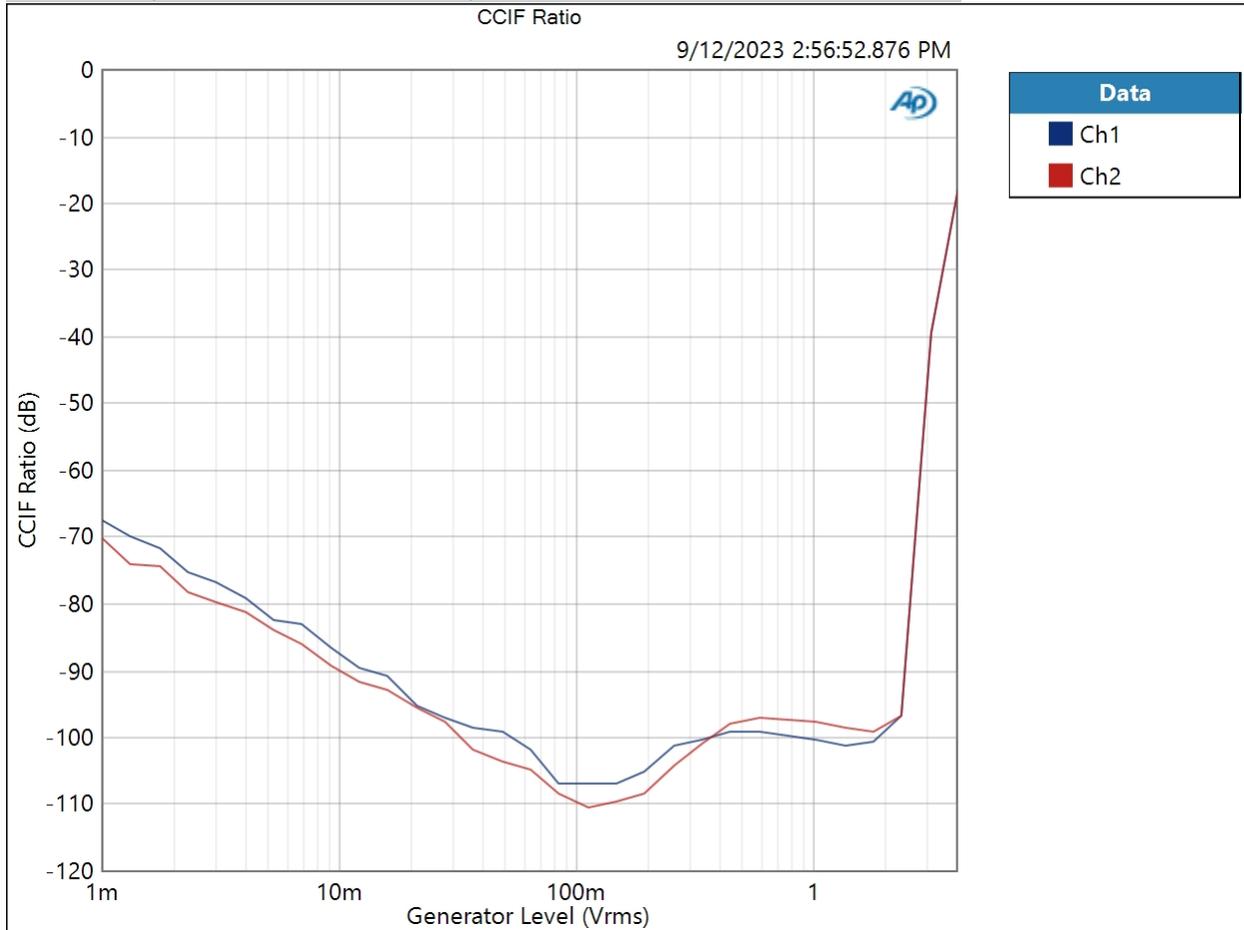
Result: ✔ PASSED

32 Ohm High Halo : IMD Frequency Sweep (CCIF)

Generator Level:	890.0 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	9/12/2023 2:57:03 PM

CCIF Ratio (9/12/2023 2:57:03.608 PM)
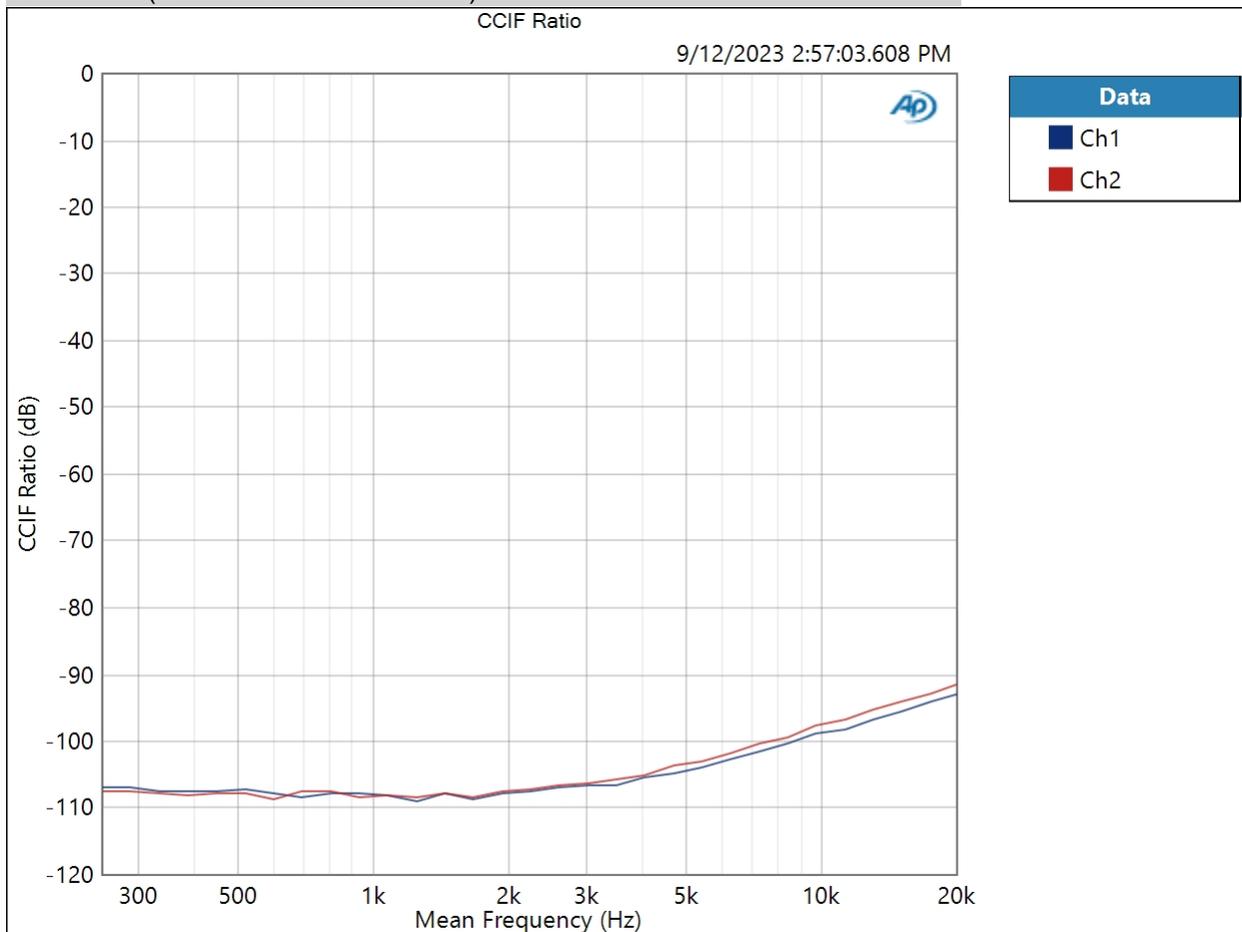
Result: ✅ PASSED

32 Ohm High Halo : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	890.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 2:57:06.060 PM)

Ch1 -71.388 dB
Ch2 -70.144 dB

32 Ohm High Halo : 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:	62
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	9/12/2023 2:57:37 PM

THD+N Ratio vs Measured Level (9/12/2023 2:57:37.120 PM)

THD+N Ratio vs Measured Level

9/12/2023 2:57:37.120 PM

Data
■ Ch1
■ Ch2
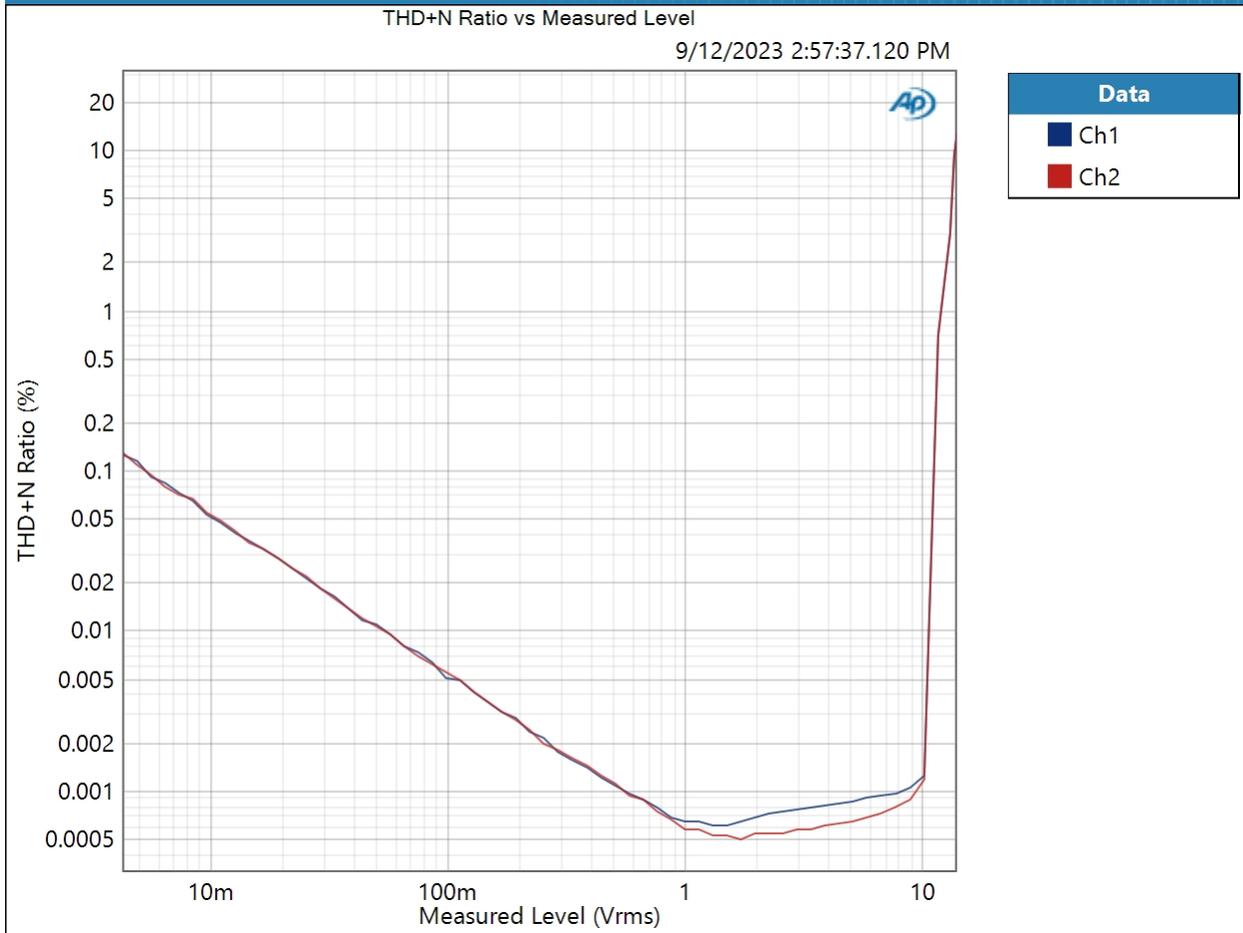
Result: ✅ PASSED

32 Ohm Low SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Unbalanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	100 kohm
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 SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 3:13:23.007 PM)

Ch1 2.020 Vrms
Ch2 2.020 Vrms

32 Ohm Low SE : 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 (9/12/2023 3:13:24.753 PM)

Ch1 309.7 uV
Ch2 157.6 uV

32 Ohm Low SE : Signal Analyzer

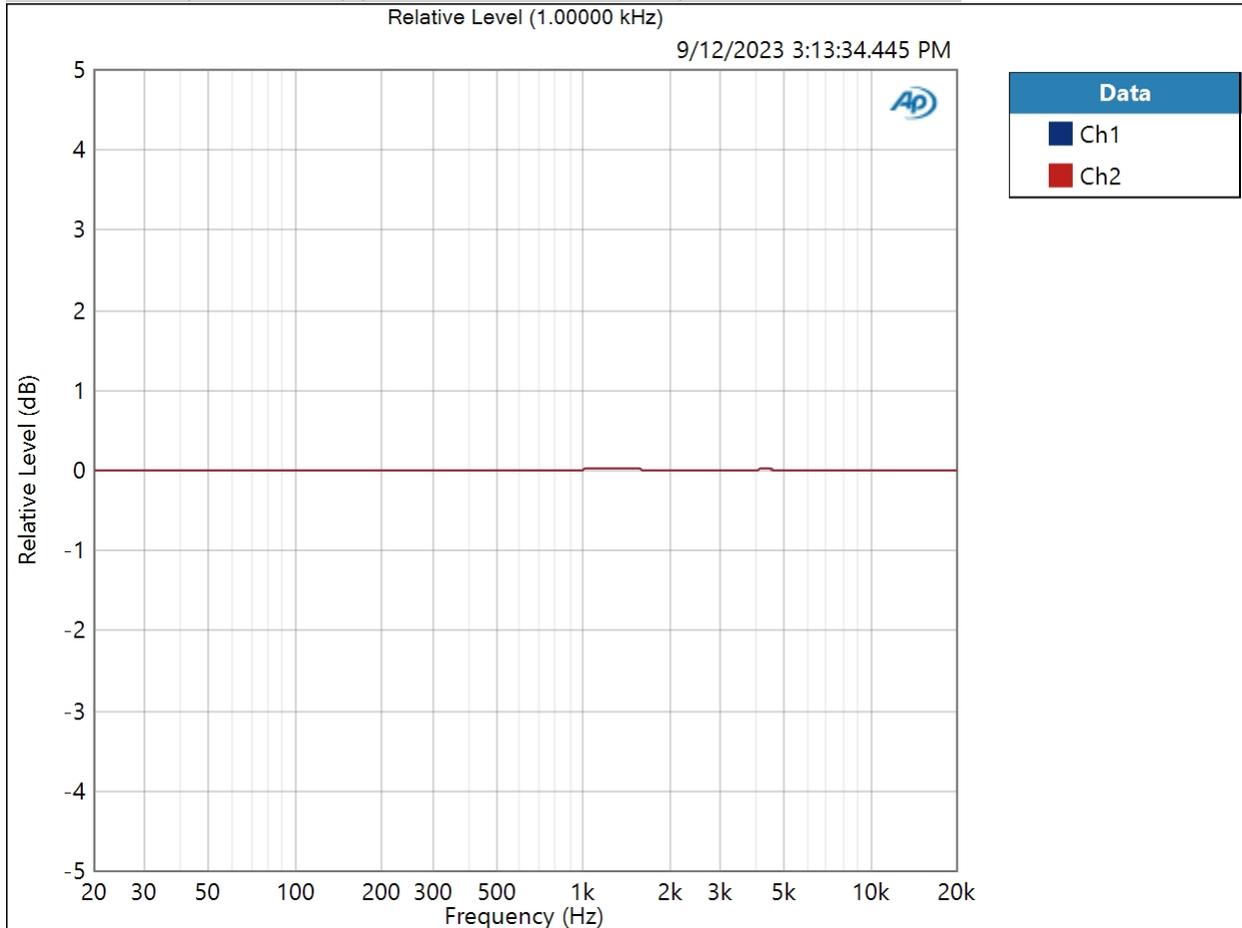|	
Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 3:13:29 PM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (9/12/2023 3:13:29.415 PM)

FFT Spectrum

9/12/2023 3:13:29.415 PM
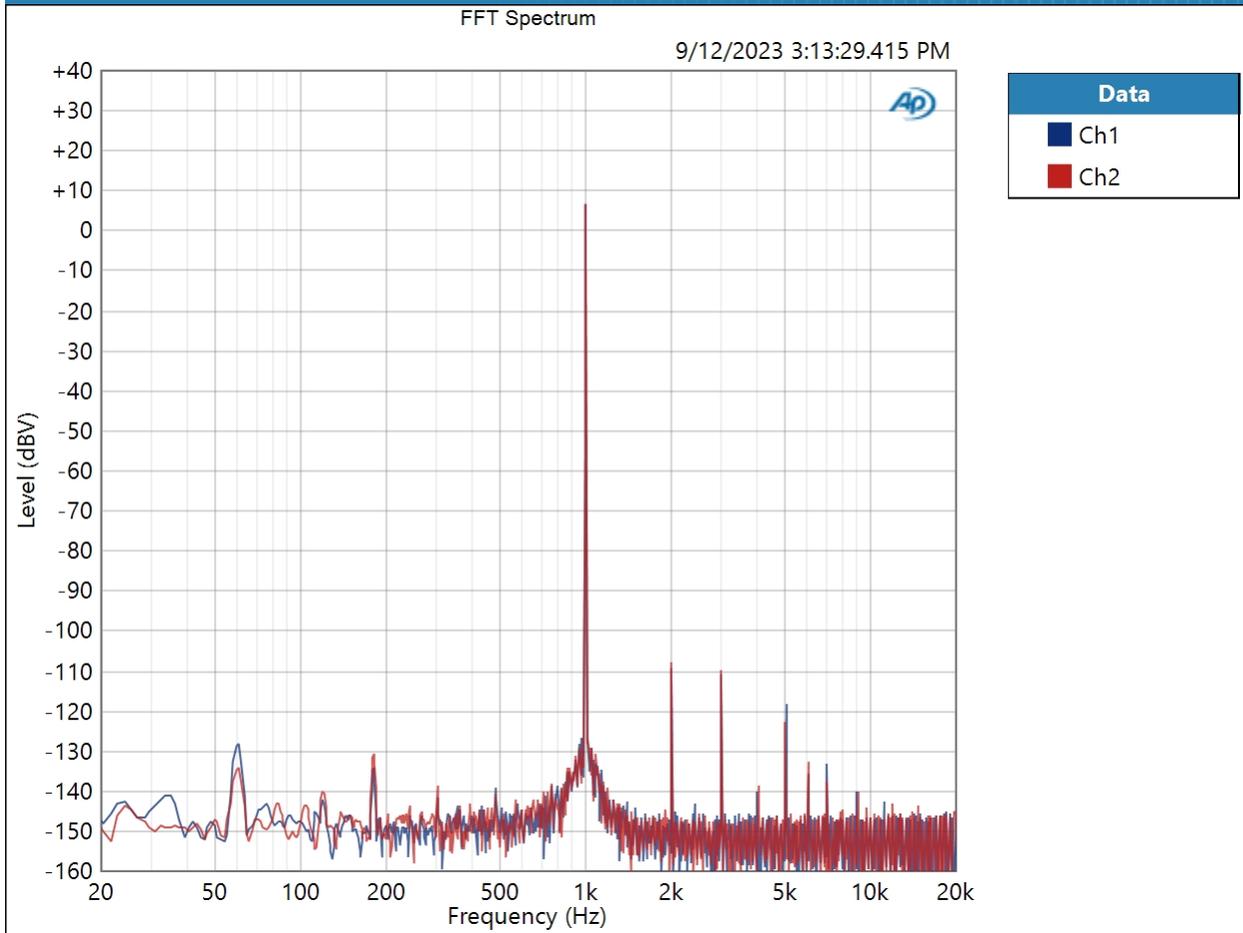
Result: ✅ PASSED

32 Ohm Low SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	2.000 Vrms
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	9/12/2023 3:13:34 PM

Relative Level (1.00000 kHz) (9/12/2023 3:13:34.445 PM)

Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 3:13:34.445 PM)

Ch1 ±0.009 dB

Ch2 ±0.010 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm Low SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
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 (9/12/2023 3:13:37.523 PM)

Ch1 123.915 dB

Ch2 123.830 dB

32 Ohm Low SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
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 (9/12/2023 3:13:40.838 PM)

Ch1 0.000256 %
Ch2 0.000279 %

THD Ratio (9/12/2023 3:13:40.838 PM)

Ch1 0.000233 %
Ch2 0.000258 %

Noise Ratio (9/12/2023 3:13:40.838 PM)

Ch1 0.000106 %
Ch2 0.000105 %

Distortion Product Ratio (9/12/2023 3:13:40.838 PM)

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	-115.42	-116.66	-148.95	-124.43	-140.88	-140.32	-146.23	-143.20	-148.59
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-114.13	-115.83	-143.51	-129.61	-138.31	-141.39	-144.94	-146.64	-148.66

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

32 Ohm Low SE : 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	9/12/2023 3:14:17 PM

CCIF Ratio (9/12/2023 3:14:17.198 PM)
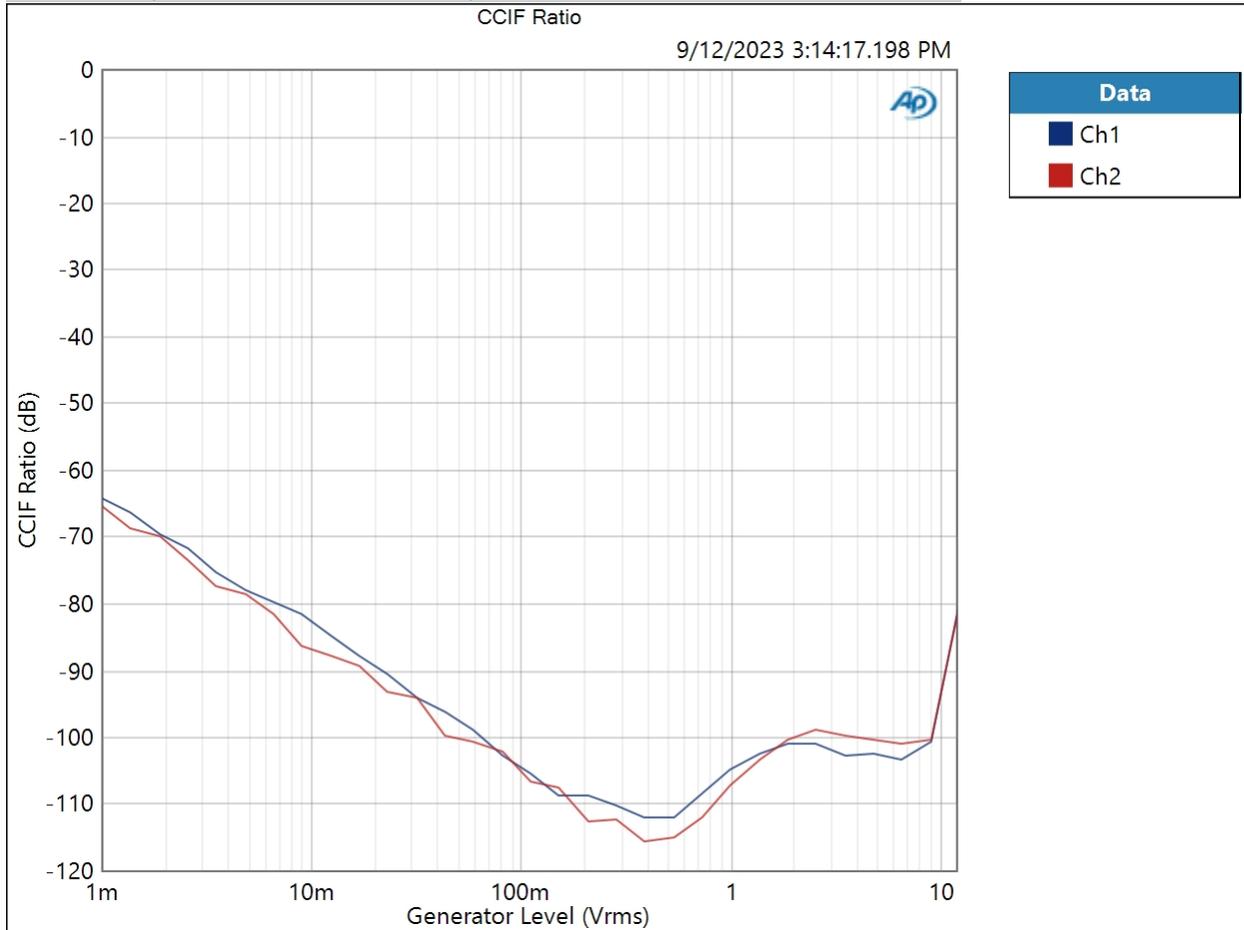
Result: ✔ PASSED

32 Ohm Low SE : IMD Frequency Sweep (CCIF)

Generator Level:	2.000 Vrms
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	9/12/2023 3:15:41 PM

CCIF Ratio (9/12/2023 3:15:41.596 PM)
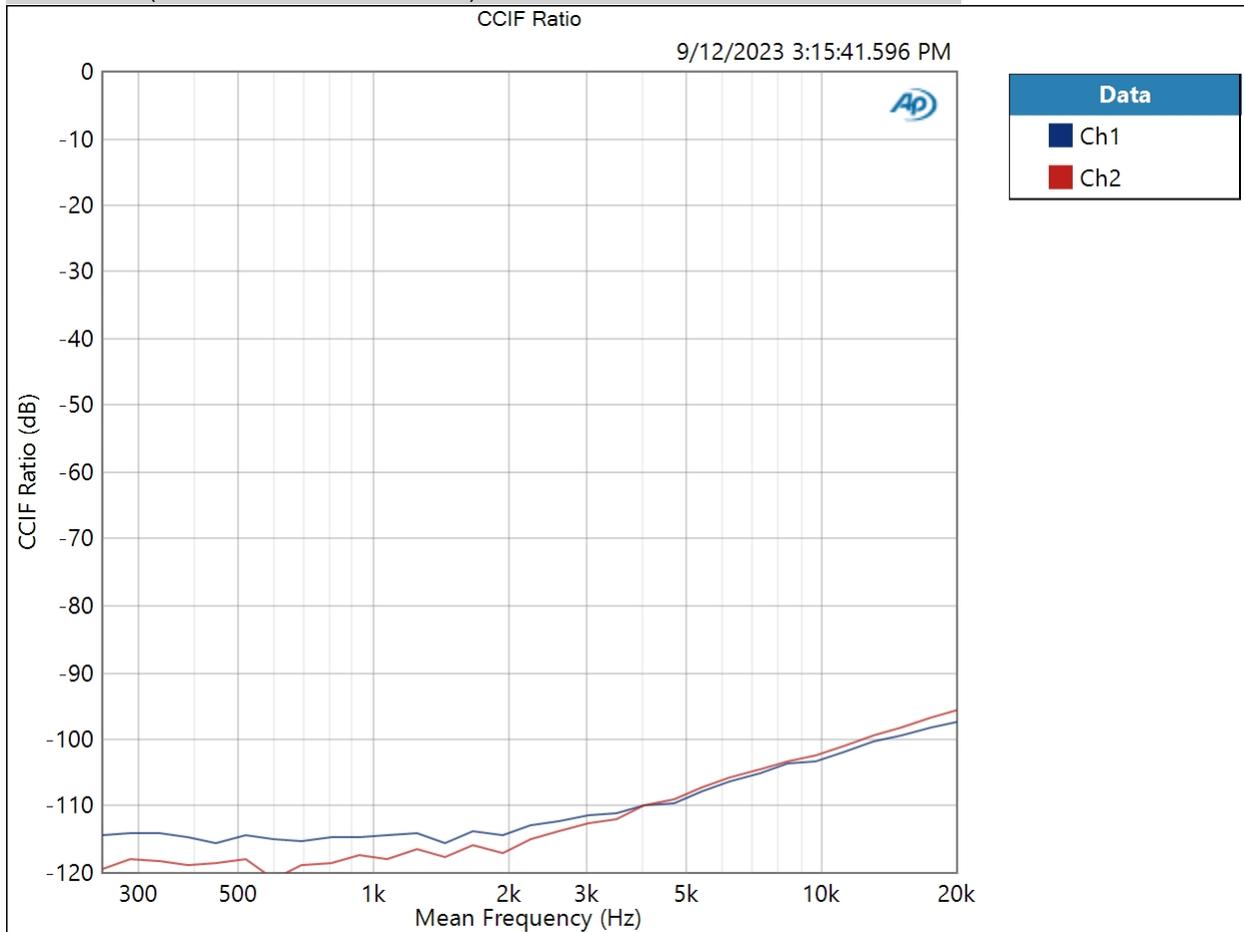
Result: ✅ PASSED

32 Ohm Low SE : Crosstalk, One Channel Undriven

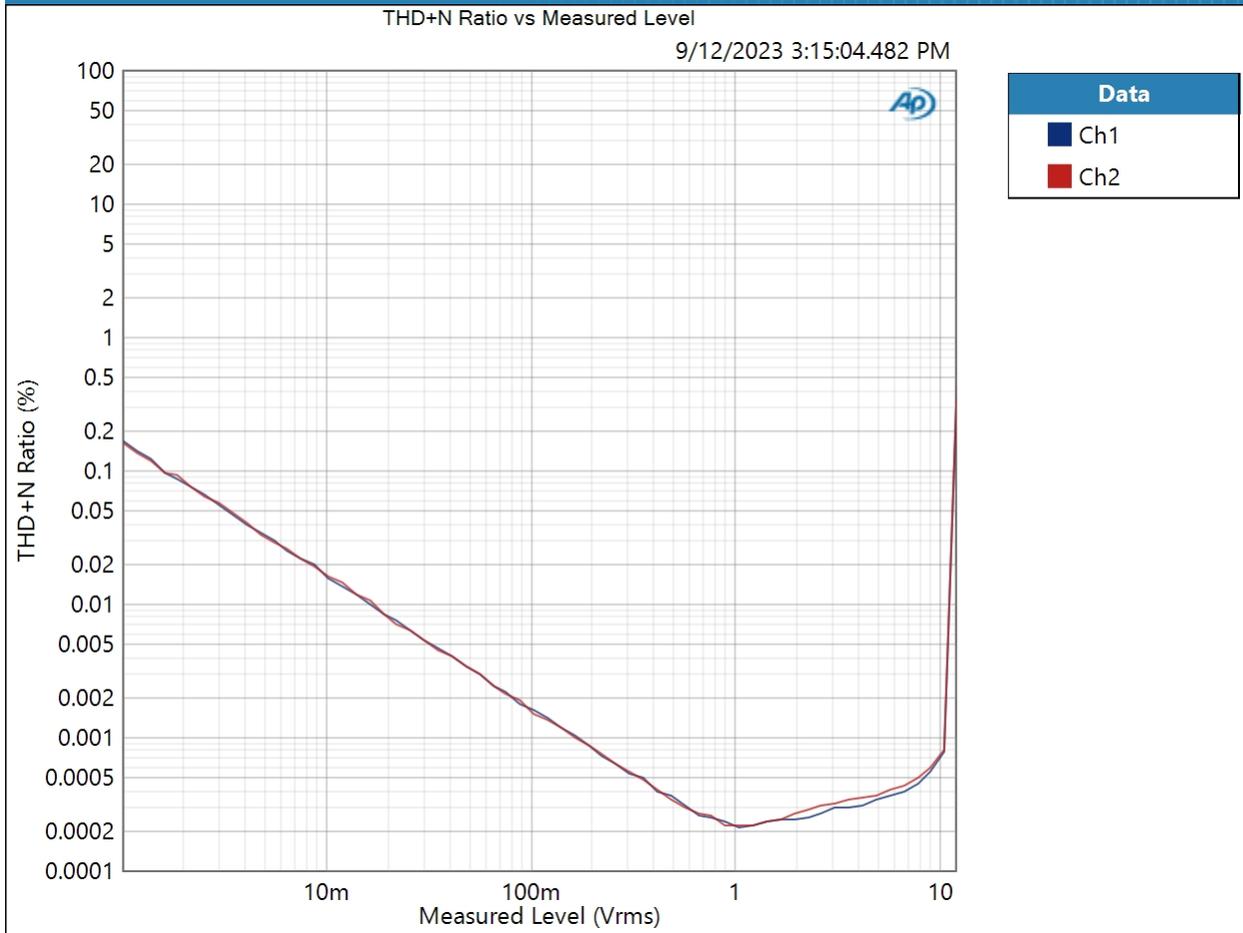|	
Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 3:14:30.427 PM)

Ch1 -91.964 dB
Ch2 -88.257 dB

32 Ohm Low SE : 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	62
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	9/12/2023 3:15:04 PM

THD+N Ratio vs Measured Level (9/12/2023 3:15:04.482 PM)

THD+N Ratio vs Measured Level
9/12/2023 3:15:04.482 PM

Data
Ch1
Ch2

Result: ✅ PASSED

32 Ohm High SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Unbalanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	100 kohm
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 High SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 3:17:30.911 PM)

Ch1 1.998 Vrms
Ch2 1.998 Vrms

32 Ohm High SE : 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 (9/12/2023 3:17:32.668 PM)

Ch1 -211.0 uV
Ch2 -708.0 uV

32 Ohm High SE : Signal Analyzer

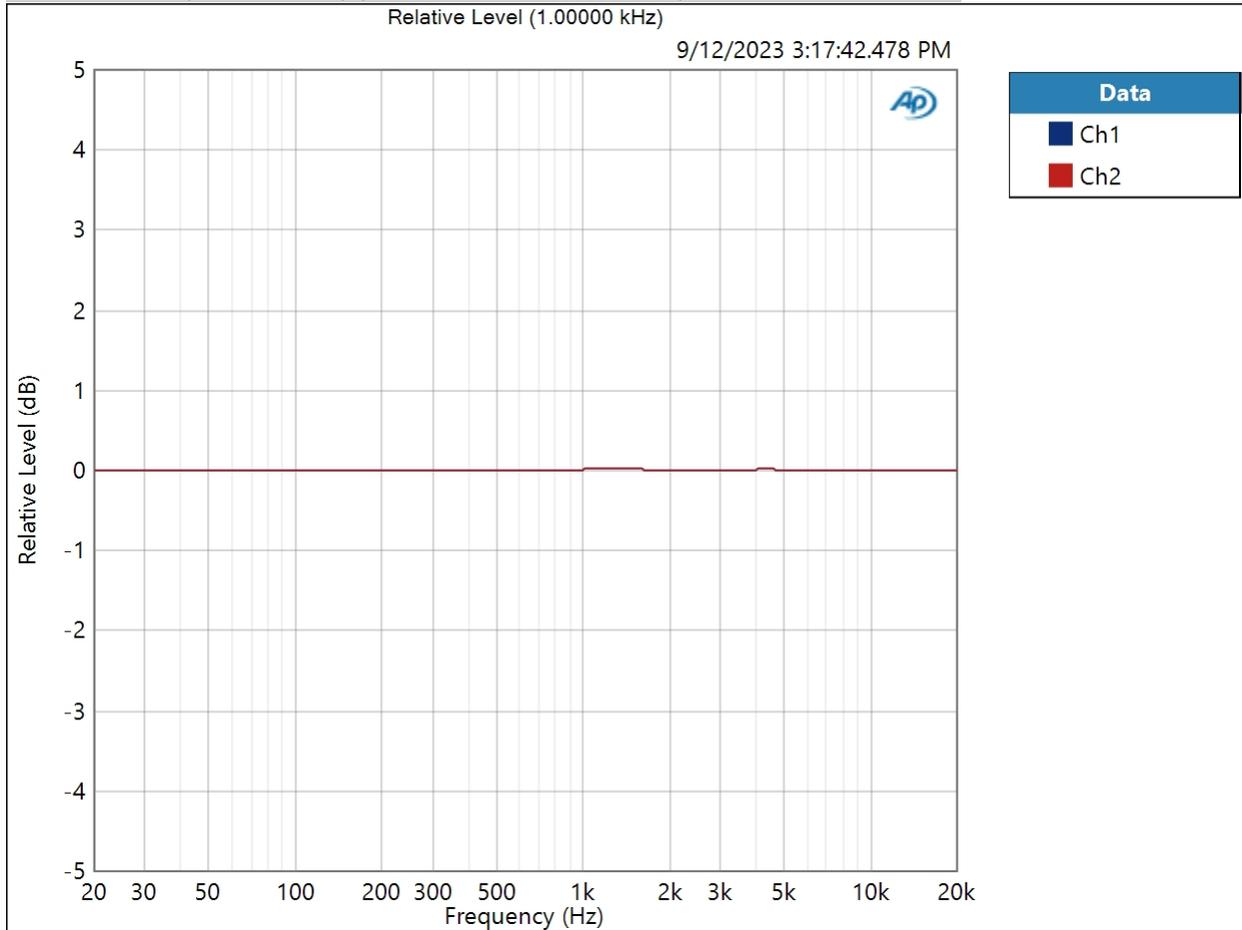|	
Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 3:17:37 PM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (9/12/2023 3:17:37.465 PM)

FFT Spectrum

9/12/2023 3:17:37.465 PM

Data	
■ Ch1	
■ Ch2	

Result: ✔ PASSED
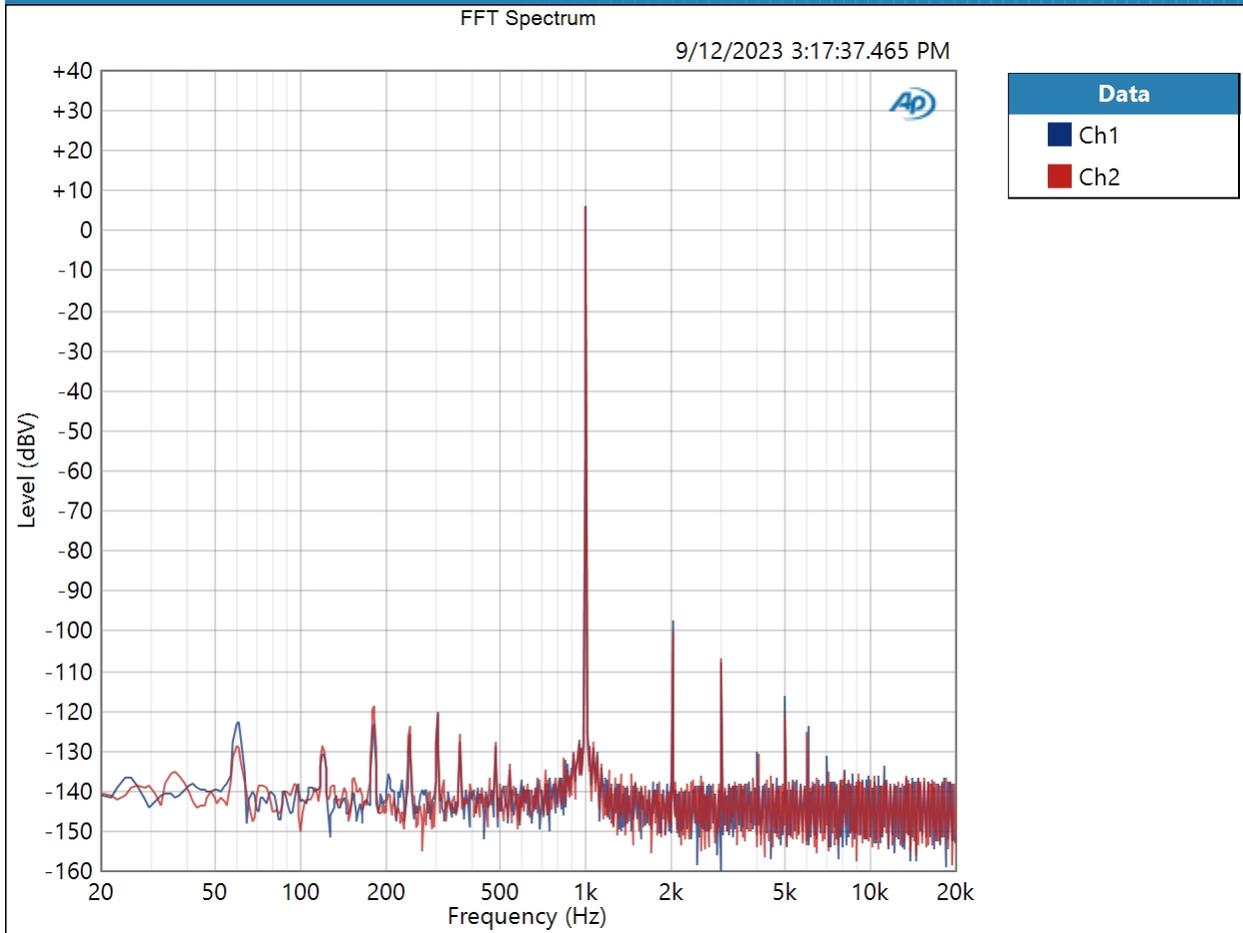
Schiit Amp APx555 Standard Test Suite: Midgard

32 Ohm High SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	440.0 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	9/12/2023 3:17:42 PM

Relative Level (1.00000 kHz) (9/12/2023 3:17:42.478 PM)

Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 3:17:42.478 PM)

Ch1 ±0.009 dB

Ch2 ±0.010 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm High SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 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 (9/12/2023 3:17:45.532 PM)

Ch1 113.126 dB

Ch2 113.260 dB

32 Ohm High SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 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 (9/12/2023 3:17:48.904 PM)

Ch1 0.000752 %
Ch2 0.000609 %

THD Ratio (9/12/2023 3:17:48.904 PM)

Ch1 0.000694 %
Ch2 0.000535 %

Noise Ratio (9/12/2023 3:17:48.904 PM)

Ch1 0.000276 %
Ch2 0.000280 %

Distortion Product Ratio (9/12/2023 3:17:48.904 PM)

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	-103.70	-113.53	-139.21	-121.63	-127.95	-136.92	-132.82	-139.79	-137.49
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-106.42	-112.70	-140.40	-127.18	-129.75	-136.36	-137.87	-137.98	-141.69

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

32 Ohm High SE : 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	9/12/2023 3:18:24 PM

CCIF Ratio (9/12/2023 3:18:24.872 PM)
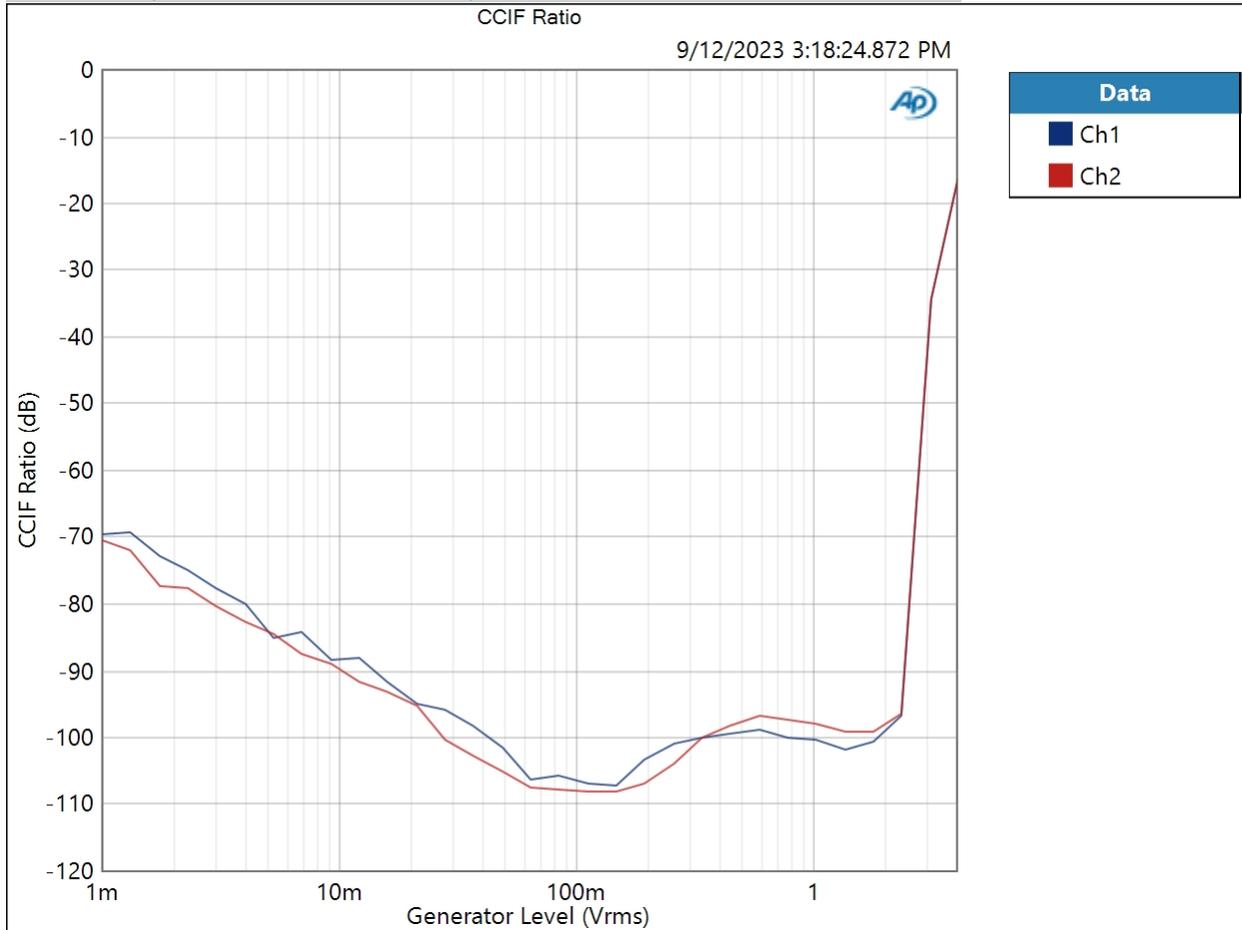
Result: ✔ PASSED

32 Ohm High SE : IMD Frequency Sweep (CCIF)

Generator Level:	440.0 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	9/12/2023 3:18:35 PM

CCIF Ratio (9/12/2023 3:18:35.698 PM)
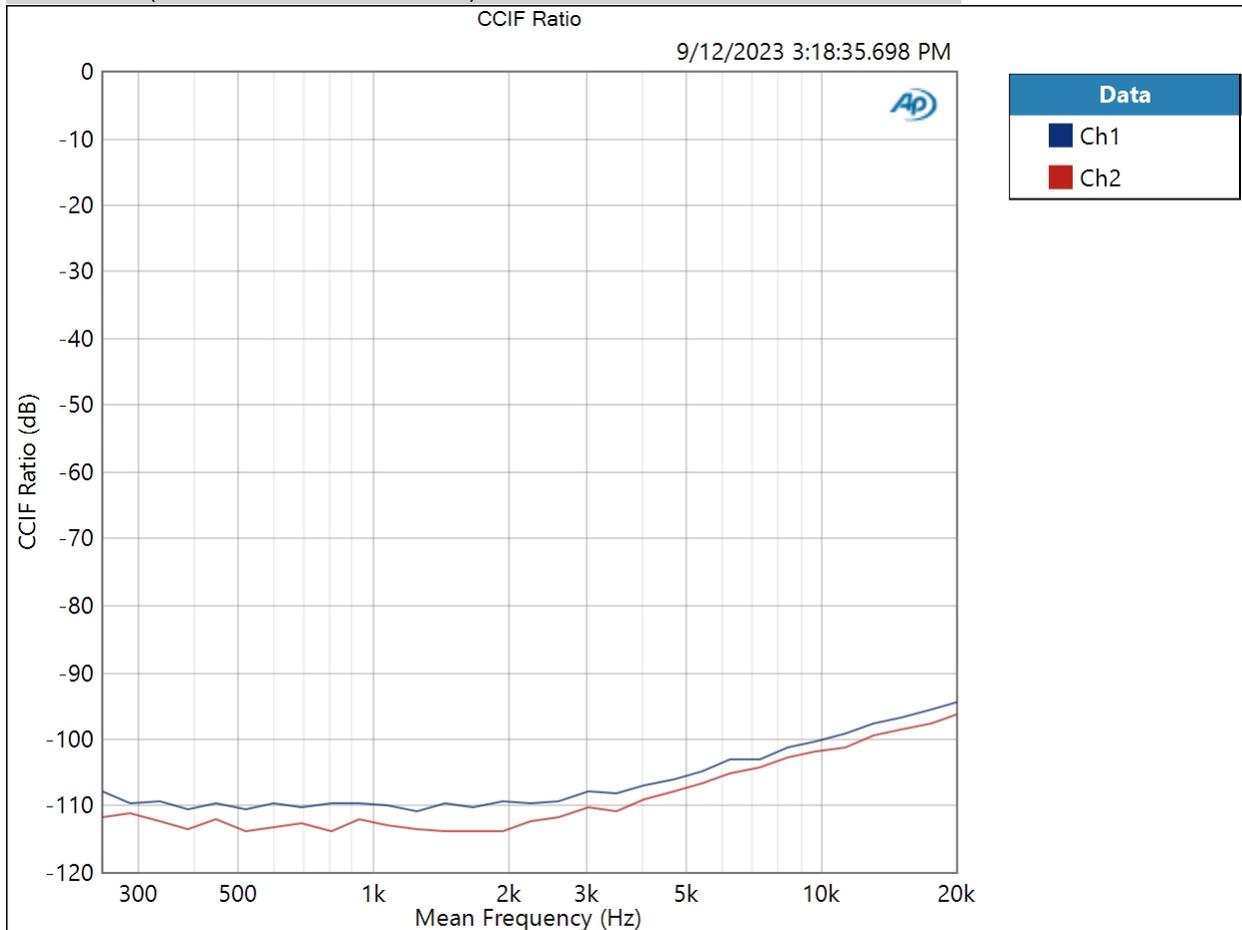
Result: ✓ PASSED

32 Ohm High SE : Crosstalk, One Channel Undriven

|	
Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	440.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 3:18:38.152 PM)

Ch1 -88.593 dB
Ch2 -90.232 dB

32 Ohm High SE : 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:	62
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	9/12/2023 3:19:09 PM

THD+N Ratio vs Measured Level (9/12/2023 3:19:09.590 PM)

THD+N Ratio vs Measured Level
9/12/2023 3:19:09.590 PM
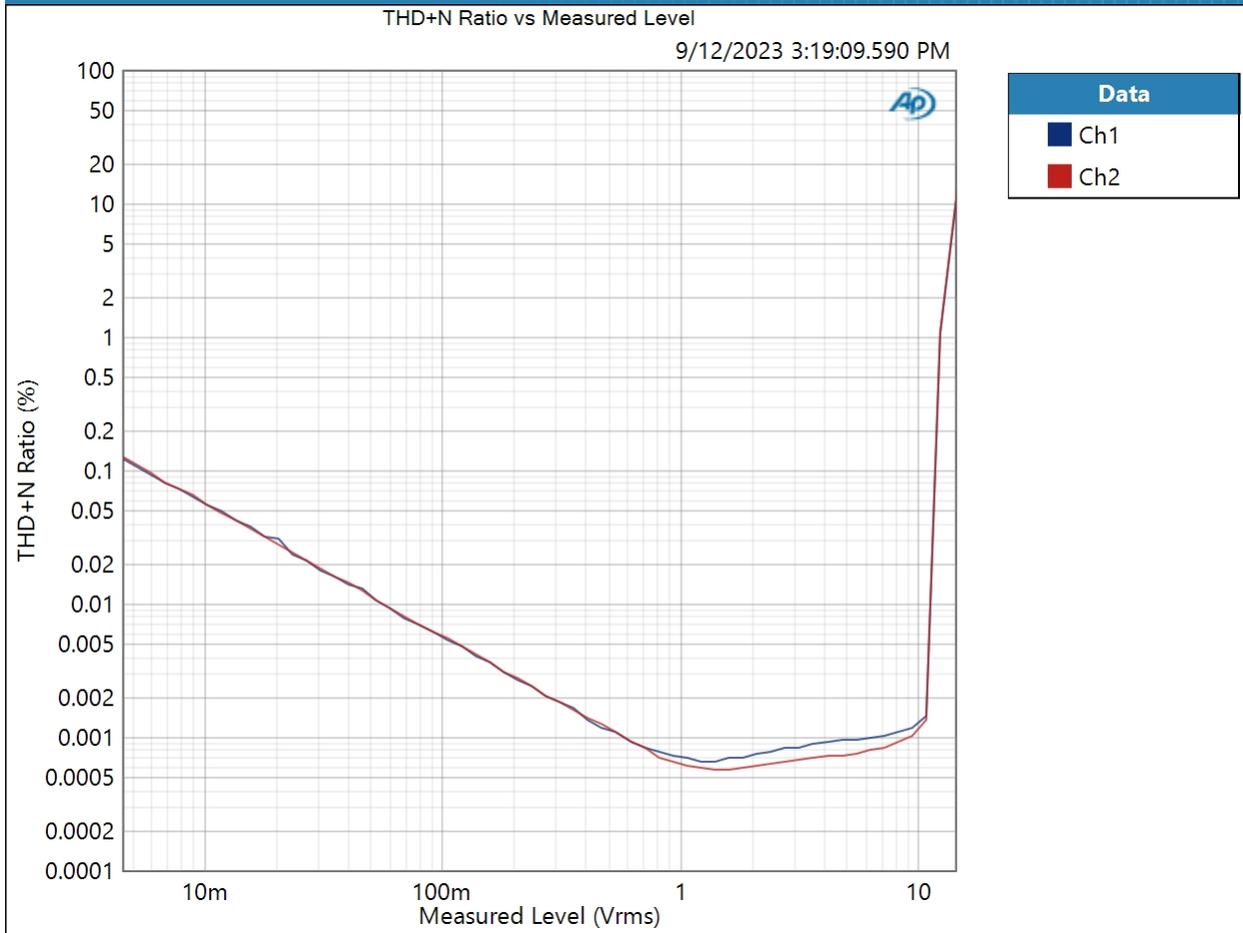
Result: ✓ PASSED

Preamp Balanced : 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:	200 kohm
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

Preamp Balanced : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 2:32:43.295 PM)

Ch1 4.003 Vrms
Ch2 4.004 Vrms

Preamp Balanced : 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 (9/12/2023 2:32:45.008 PM)

Ch1 -253.5 uV
Ch2 -172.8 uV

Preamp Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 2:32:49 PM
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 (9/12/2023 2:32:49.619 PM)

FFT Spectrum

9/12/2023 2:32:49.619 PM
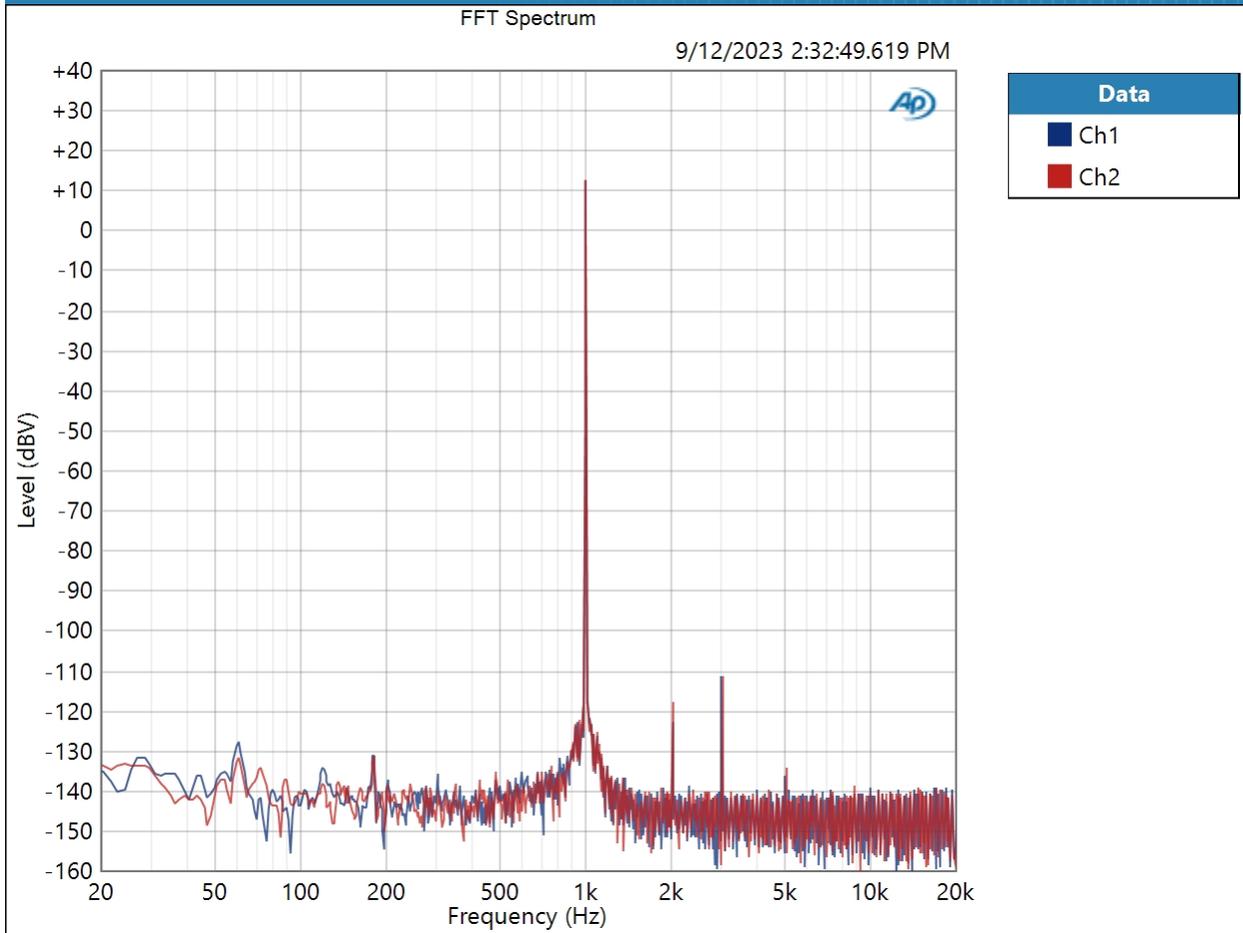
Result: ✅ PASSED

Schiit Amp APx555 Standard Test Suite: Midgard

Preamp Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	4.000 Vrms
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	9/12/2023 2:32:54 PM

Relative Level (1.00000 kHz) (9/12/2023 2:32:54.659 PM)
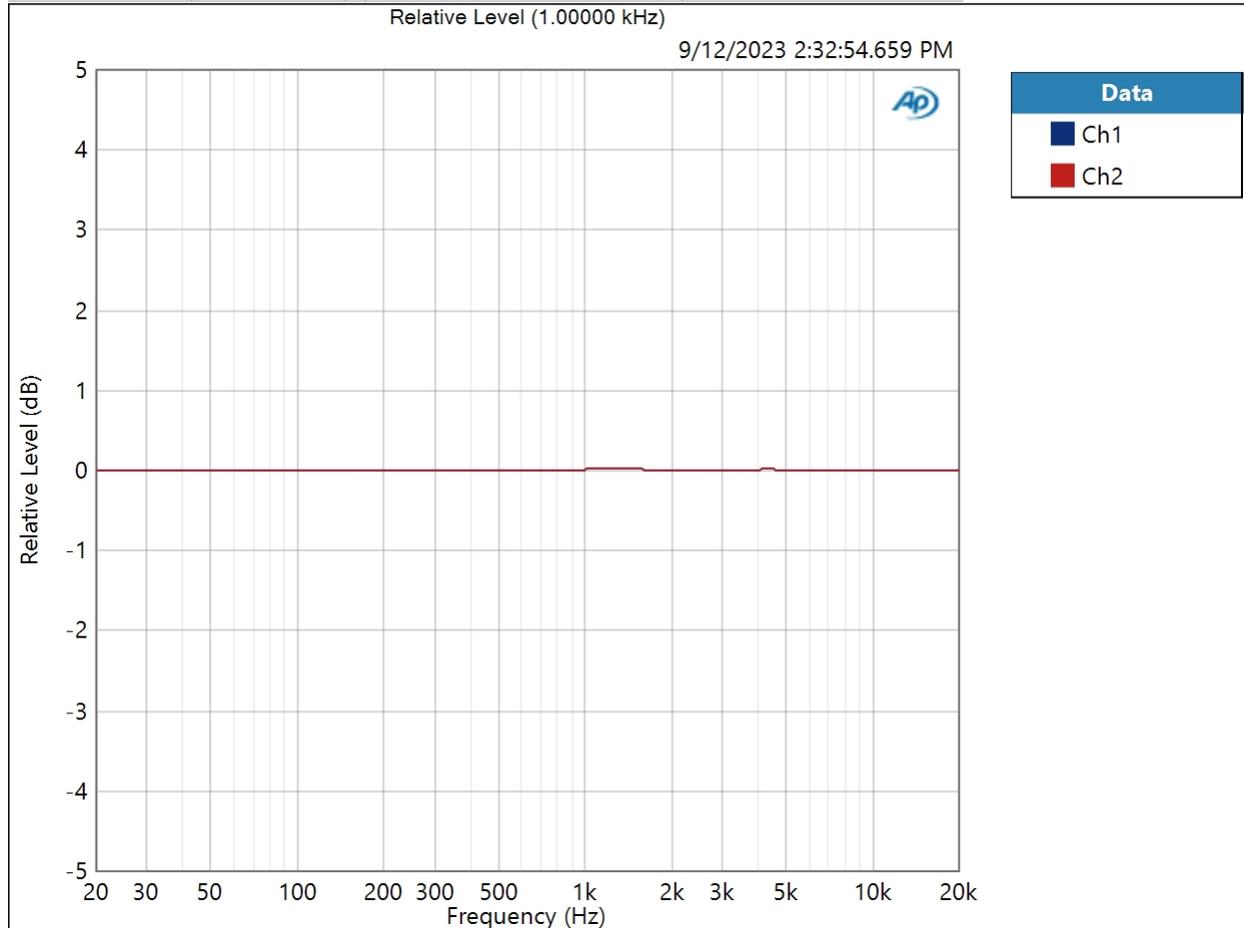
Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 2:32:54.659 PM)

Ch1 ±0.009 dB

Ch2 ±0.010 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Preamp Balanced : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
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 (9/12/2023 2:32:57.755 PM)

Ch1 125.217 dB

Ch2 125.207 dB

Preamp Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
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 (9/12/2023 2:33:01.109 PM)

Ch1 0.000123 %
Ch2 0.000126 %

THD Ratio (9/12/2023 2:33:01.109 PM)

Ch1 0.000069 %
Ch2 0.000073 %

Noise Ratio (9/12/2023 2:33:01.109 PM)

Ch1 0.000101 %
Ch2 0.000100 %

Distortion Product Ratio (9/12/2023 2:33:01.109 PM)

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	-135.00	-123.78	-147.73	-145.00	-151.82	-151.21	-145.80	-146.85	-148.03
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-129.90	-123.83	-151.17	-148.15	-150.56	-149.86	-151.23	-147.45	-148.20

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

Preamp Balanced : IMD Level Sweep (CCIF)

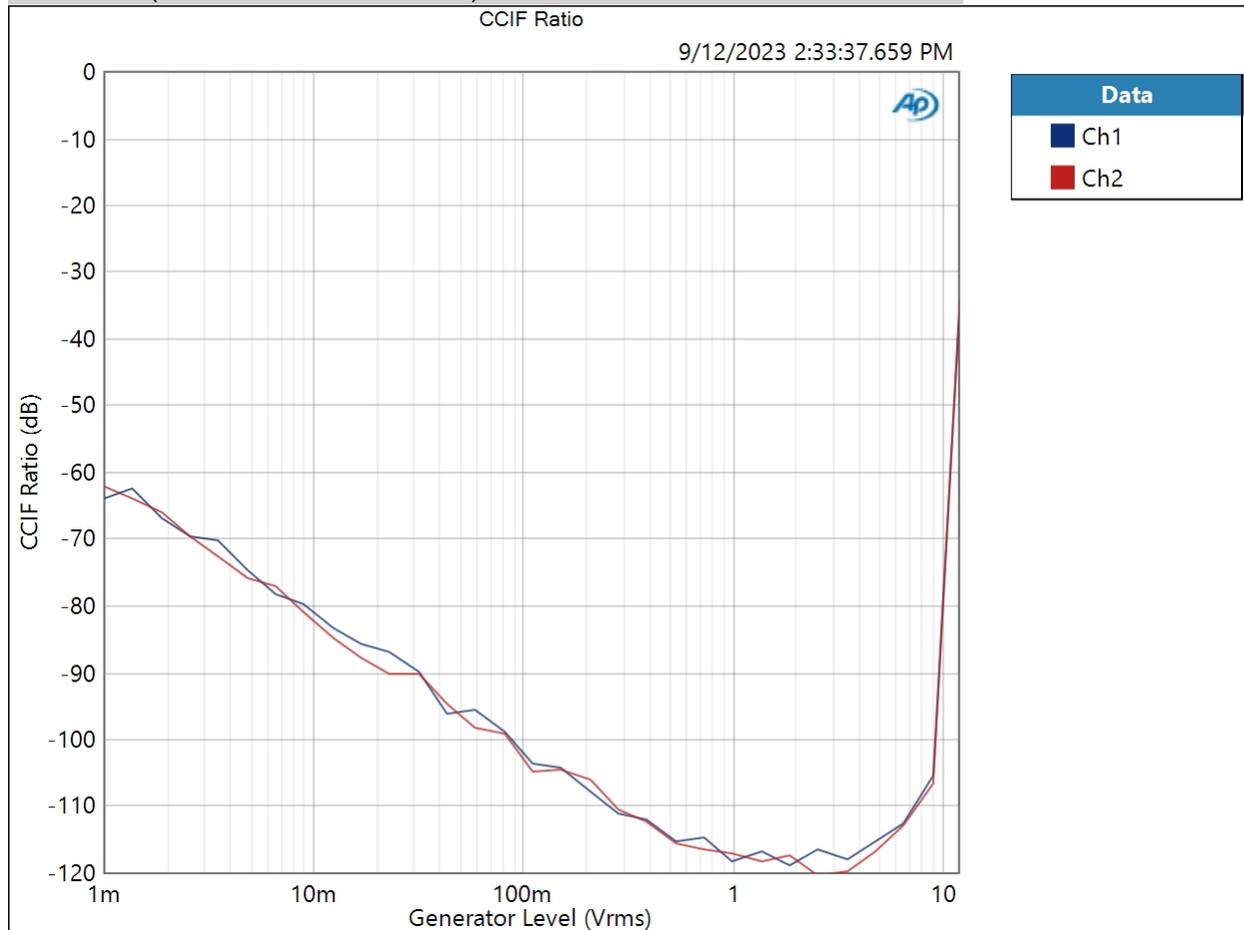|	
IMD Type:	CCIF
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	9/12/2023 2:33:37 PM

CCIF Ratio (9/12/2023 2:33:37.659 PM)

Result: ✔ PASSED

Preamp Balanced : IMD Frequency Sweep (CCIF)

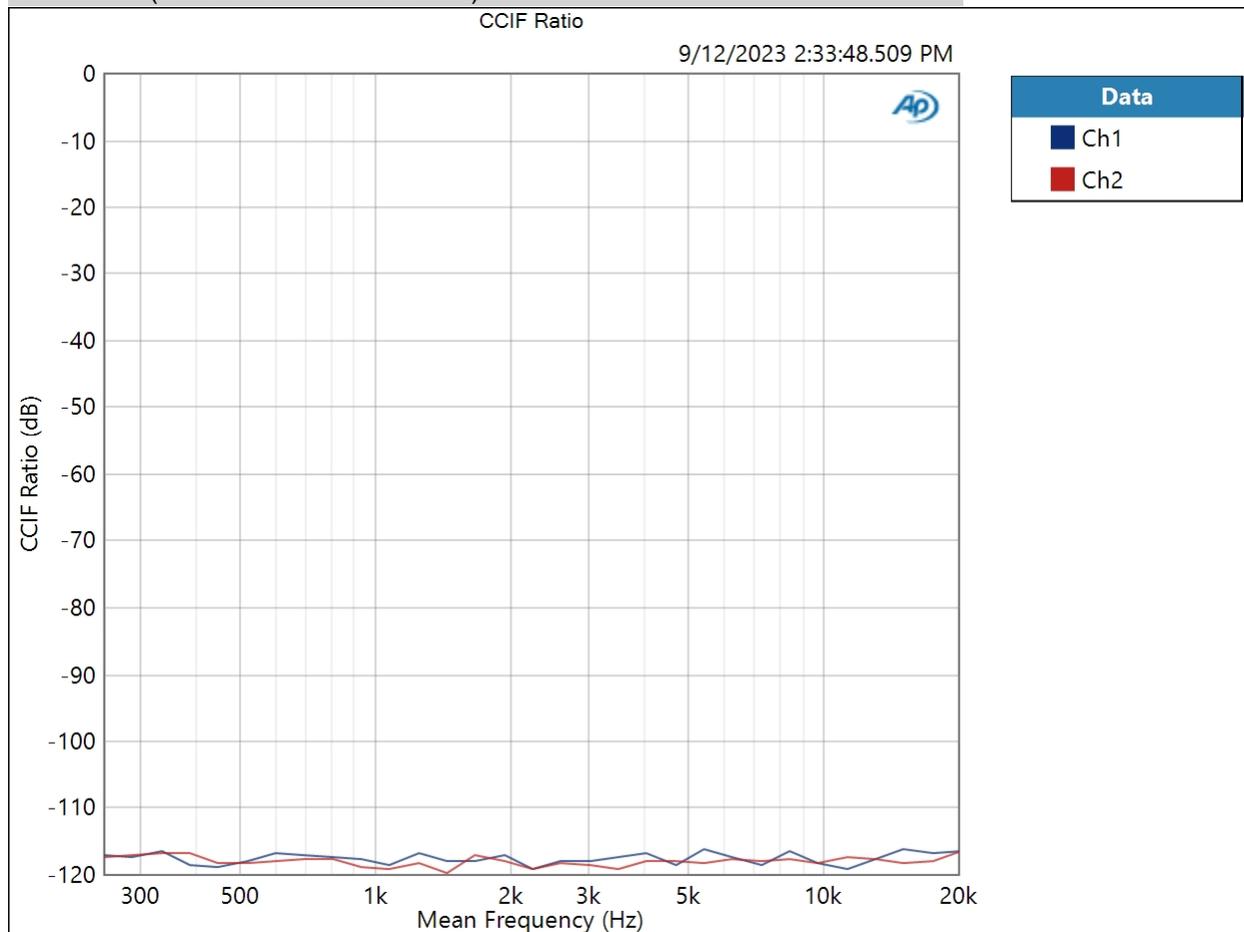|	
Generator Level:	4.000 Vrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Frequency:	20.0000 kHz
Stop Frequency:	250.000 Hz
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	9/12/2023 2:33:48 PM

CCIF Ratio (9/12/2023 2:33:48.509 PM)

Result: ✅ PASSED

Preamp Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	4.000 Vrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 2:33:50.914 PM)

Ch1 -85.942 dB
Ch2 -96.944 dB

Preamp Balanced : 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:	12.00 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	9/12/2023 2:34:11 PM

THD+N Ratio vs Measured Level (9/12/2023 2:34:11.921 PM)

THD+N Ratio vs Measured Level
9/12/2023 2:34:11.921 PM

Data	
■	Ch1
■	Ch2
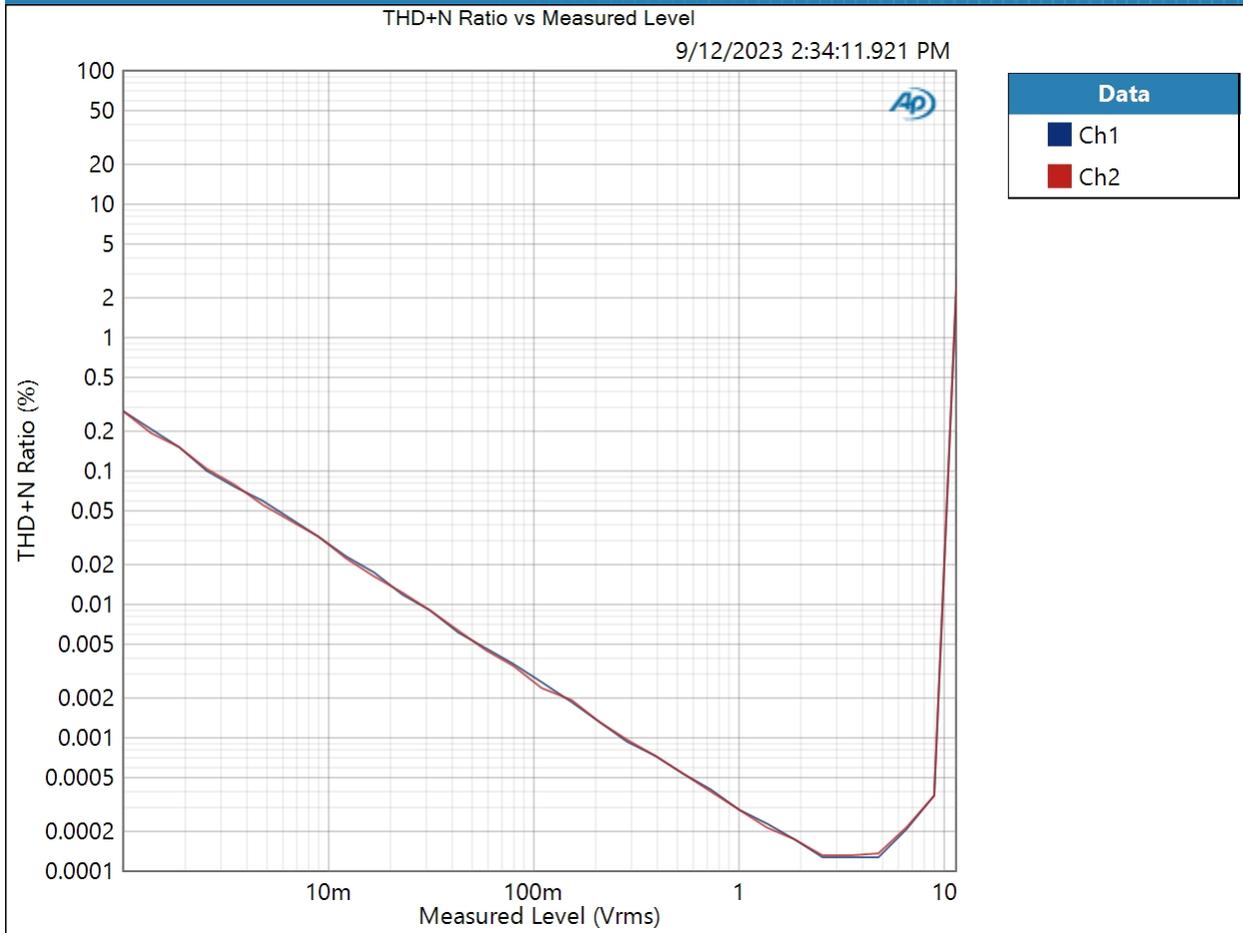
Result: ✓ PASSED

Preamp SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Source Impedance:	20 ohm, 20 ohm
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Unbalanced
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Channels:	2
Termination:	100 kohm
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

Preamp SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (9/12/2023 2:27:27.547 PM)

Ch1 2.024 Vrms
Ch2 2.024 Vrms

Preamp SE : 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 (9/12/2023 2:27:29.456 PM)

Ch1 -509.2 uV
Ch2 -355.6 uV

Preamp SE : Signal Analyzer

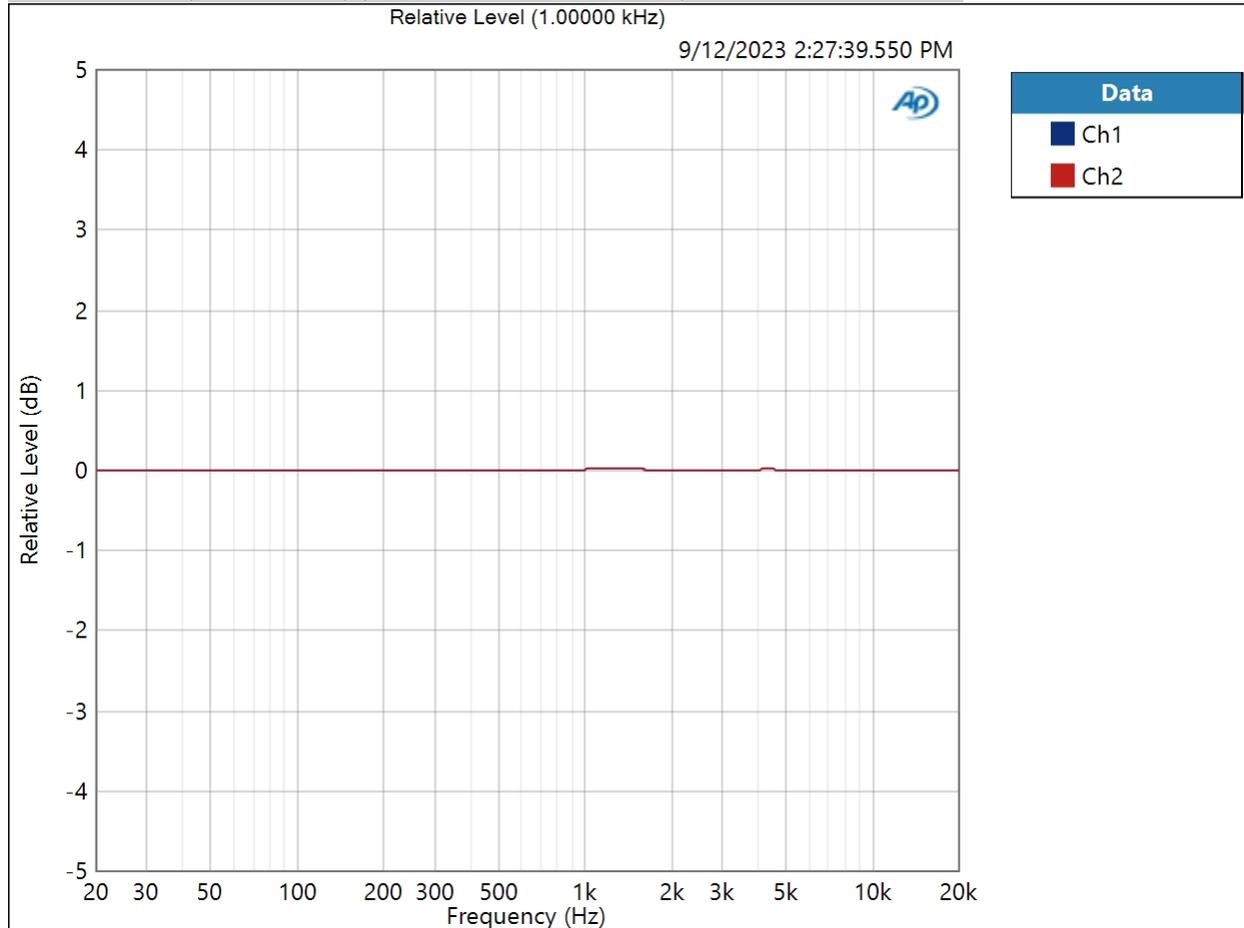|	
Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	9/12/2023 2:27:34 PM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	250.0 ms
Input Bandwidth:	Use Signal Path
FFT Length:	32K
Averaging:	Power
Averages:	3
Window:	AP-Equiripple
Record Acquisition:	False
Recording Type:	Multiple Mono PCM (.wav)

FFT Spectrum (9/12/2023 2:27:34.092 PM)

FFT Spectrum

9/12/2023 2:27:34.092 PM

Data	
Ch1	
Ch2	
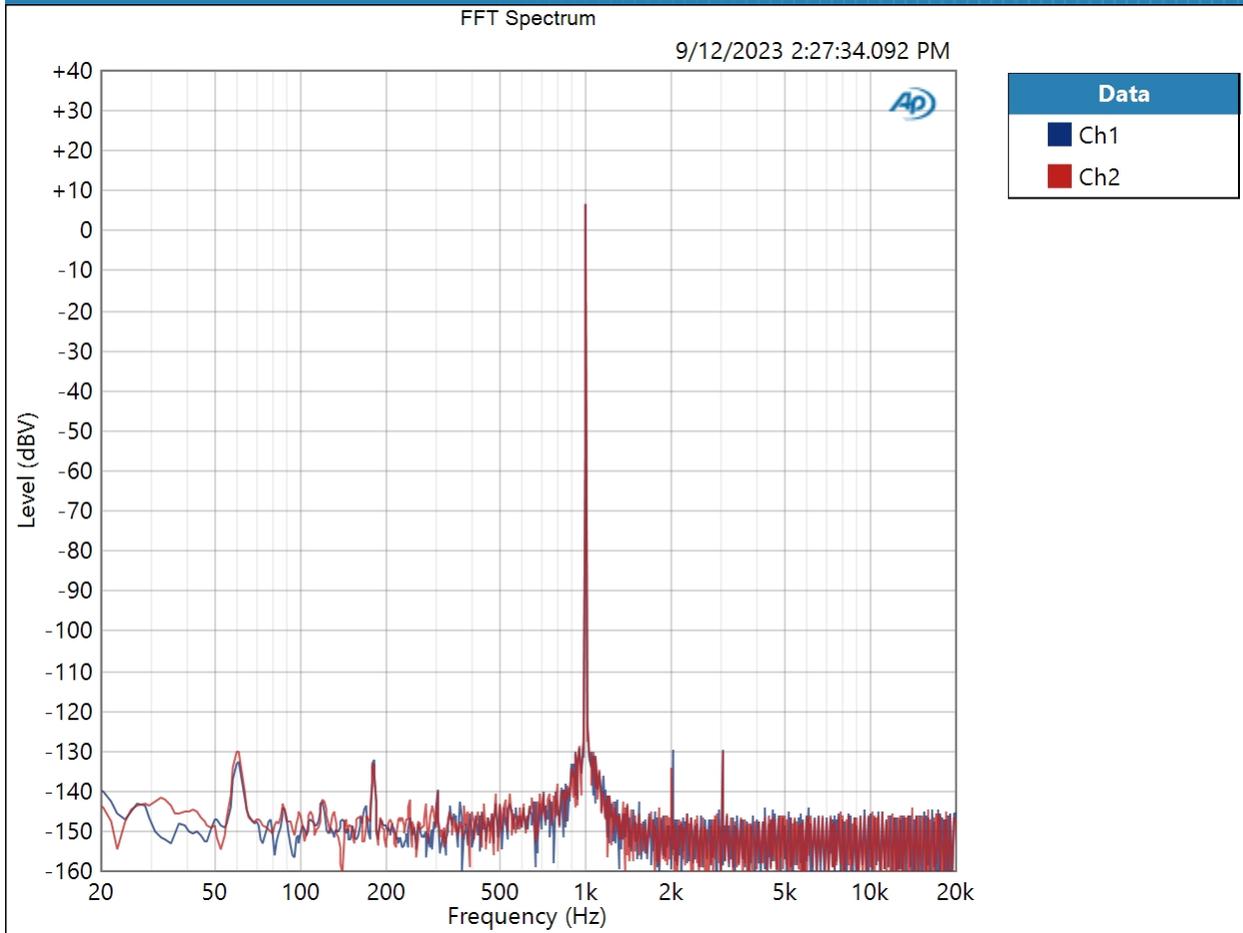
Result: PASSED

Preamp SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	2.000 Vrms
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	9/12/2023 2:27:39 PM

Relative Level (1.00000 kHz) (9/12/2023 2:27:39.550 PM)

Relative Level (1.00000 kHz) Parameters

Mode:	Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✅ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (9/12/2023 2:27:39.550 PM)

Ch1 ±0.009 dB

Ch2 ±0.009 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Preamp SE : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 2.000 Vrms

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 (9/12/2023 2:27:42.595 PM)

Ch1 123.817 dB

Ch2 123.819 dB

Preamp SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
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 (9/12/2023 2:27:46.115 PM)

Ch1 0.000108 %
Ch2 0.000109 %

THD Ratio (9/12/2023 2:27:46.115 PM)

Ch1 0.000025 %
Ch2 0.000025 %

Noise Ratio (9/12/2023 2:27:46.115 PM)

Ch1 0.000105 %
Ch2 0.000104 %

Distortion Product Ratio (9/12/2023 2:27:46.115 PM)

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	-136.28	-137.06	-150.84	-149.63	-147.36	-150.77	-149.64	-149.67	-147.10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-139.84	-136.04	-146.96	-149.65	-147.60	-148.80	-149.41	-148.58	-143.02

Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

Schiit Amp APx555 Standard Test Suite: Midgard

Preamp SE : 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	9/12/2023 2:28:22 PM

CCIF Ratio (9/12/2023 2:28:22.344 PM)
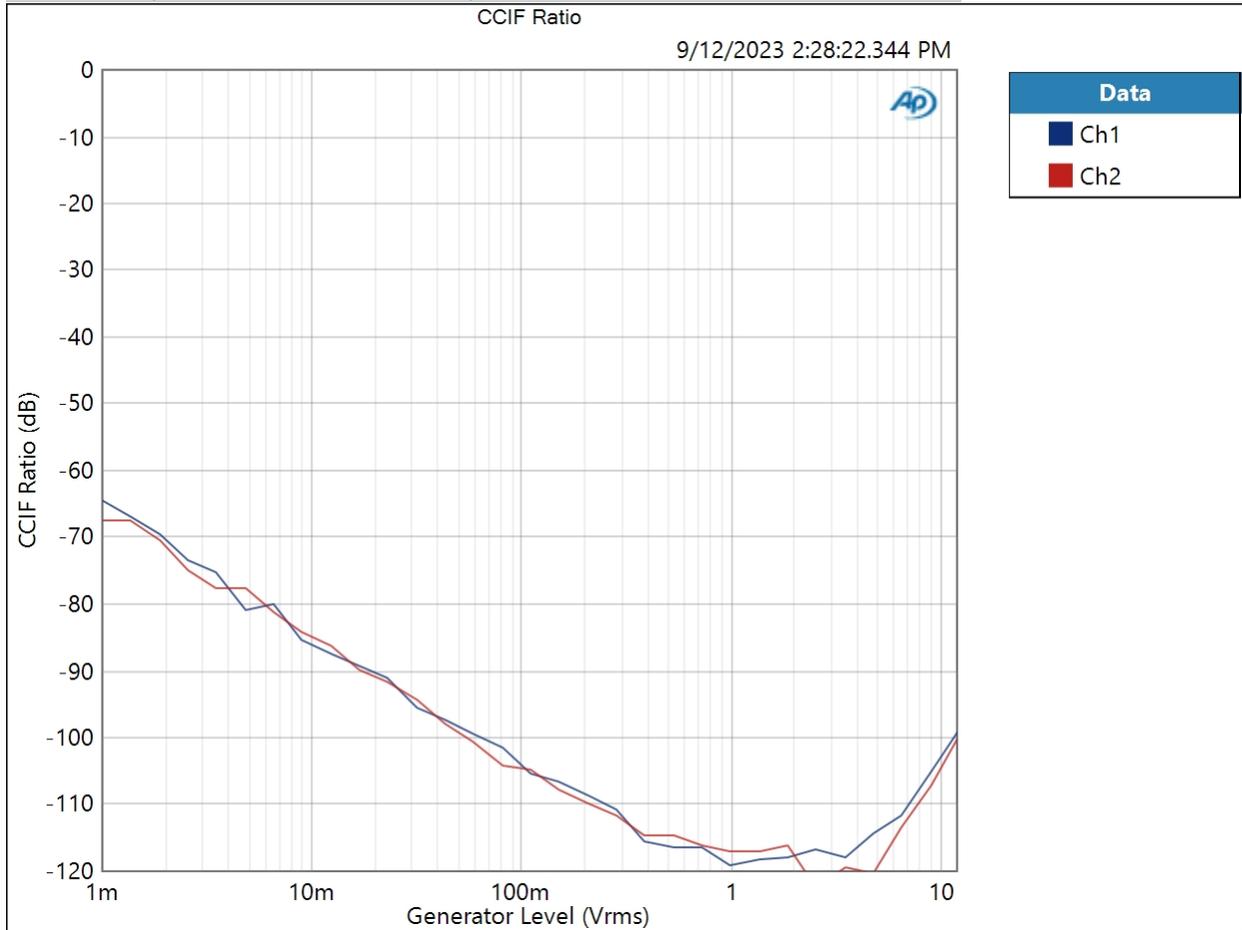
Result: ✔ PASSED

Preamp SE : IMD Frequency Sweep (CCIF)

Generator Level:	2.000 Vrms
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	9/12/2023 2:28:33 PM

CCIF Ratio (9/12/2023 2:28:33.168 PM)
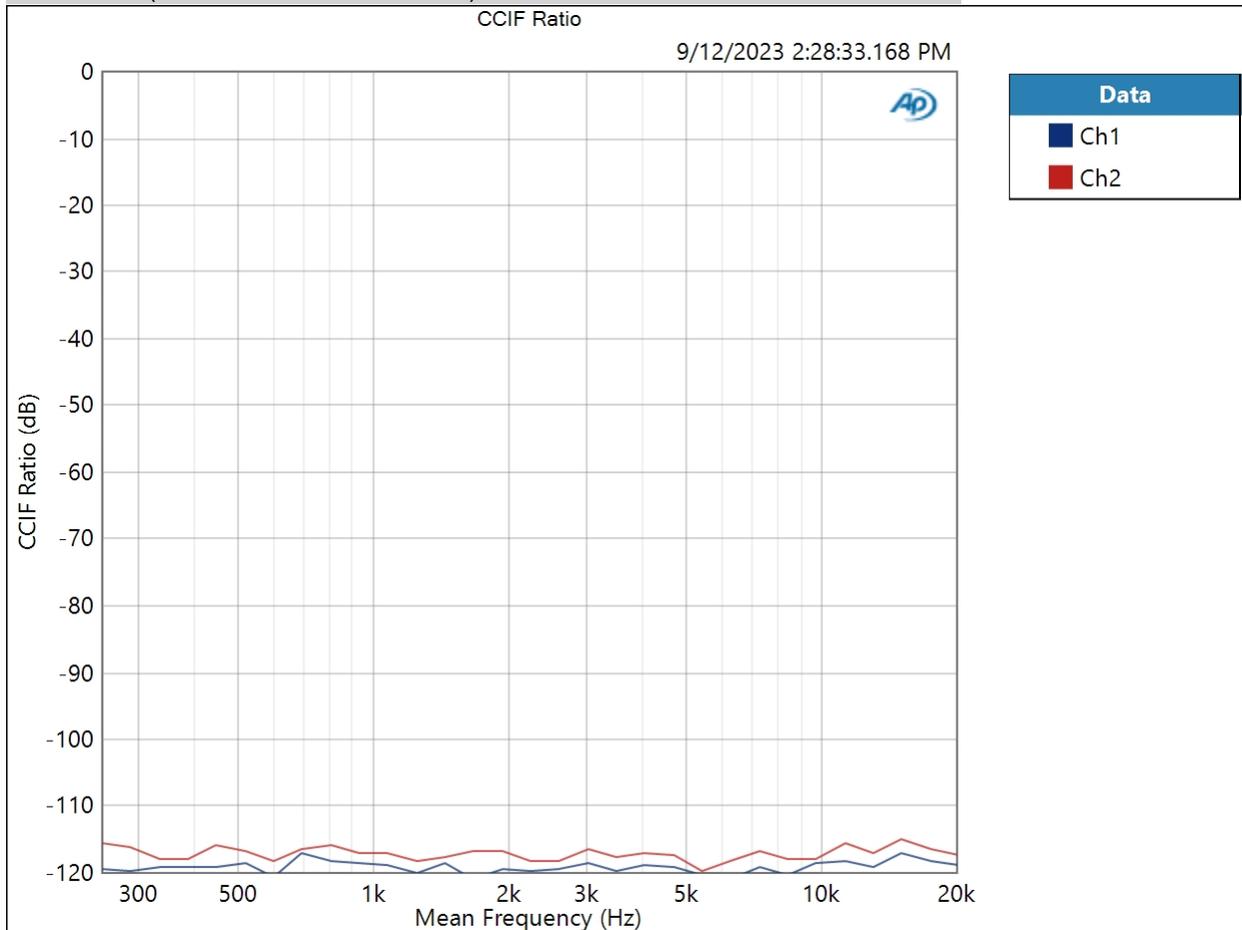
Result: PASSED

Preamp SE : Crosstalk, One Channel Undriven

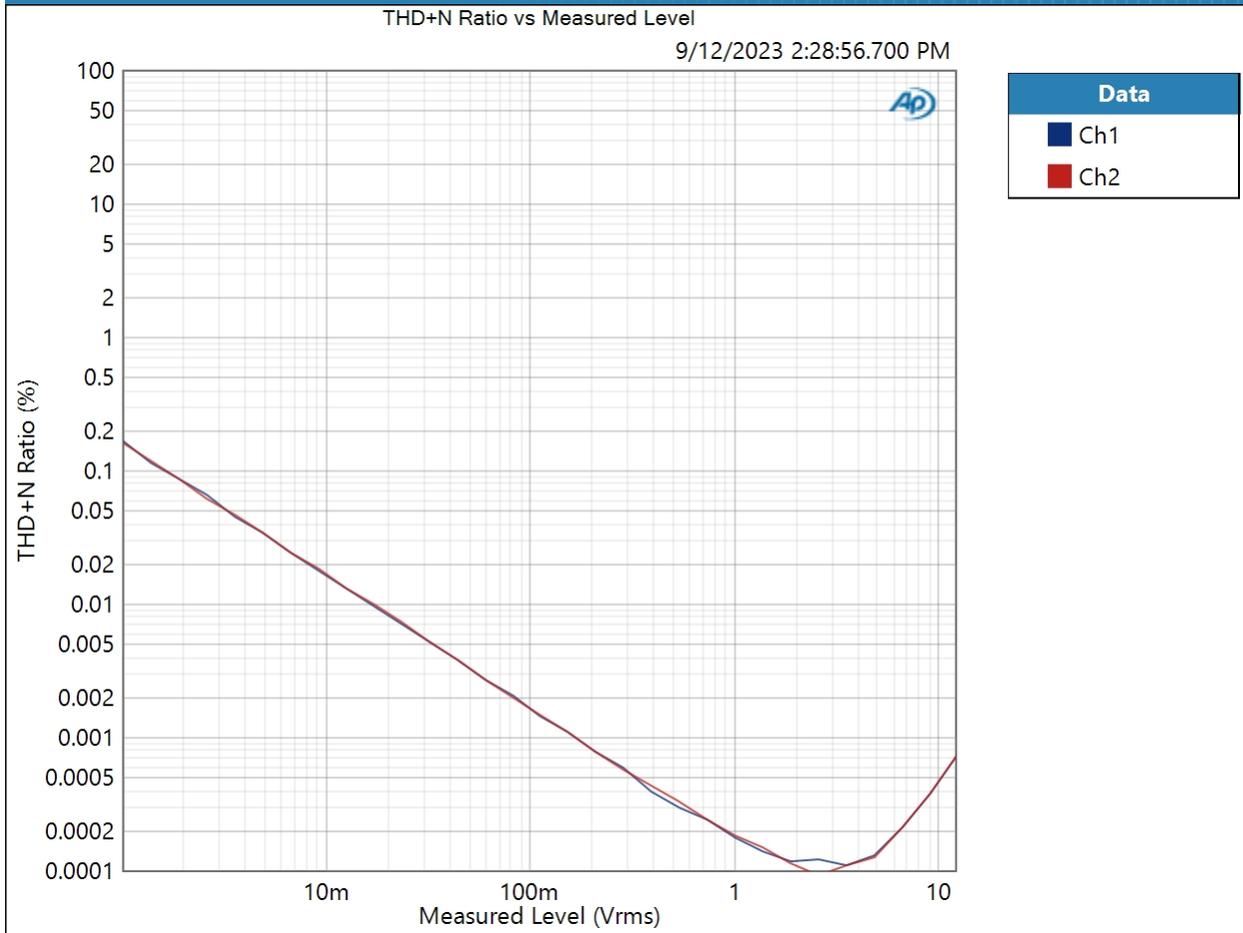|	
Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	2.000 Vrms
Frequency:	10.0000 kHz

Crosstalk (9/12/2023 2:28:35.642 PM)

Ch1 85.045 dB
Ch2 99.206 dB

Preamp SE : 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:	12.00 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	9/12/2023 2:28:56 PM

THD+N Ratio vs Measured Level (9/12/2023 2:28:56.700 PM)

THD+N Ratio vs Measured Level

9/12/2023 2:28:56.700 PM

Result: ✔ PASSED