

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@schitt.com so we can have a look.

Summary

8 Ohm Stereo Feedback Off

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

8 Ohm Stereo Feedback On

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IMD Frequency Sweep (CCIF)	✓ PASSED
Crosstalk, One Channel Undriven	✓ PASSED
Stepped Level Sweep	✓ PASSED

4 Ohm Stereo Feedback Off

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

4 Ohm Stereo Feedback On

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:	100546525
Calibration Date:	2/10/2021
APx Version:	7.1.0.321

8 Ohm Stereo Feedback Off : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Termination:	200 kohm
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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• DCX

DCX is not detected.

8 Ohm Stereo Feedback Off : Level and Gain

Waveform: Sine
Generator Level: 110.0 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (11/25/2024 12:10:56.200 PM)

Ch1 4.728 Vrms
Ch2 4.728 Vrms

8 Ohm Stereo Feedback Off : DC Level

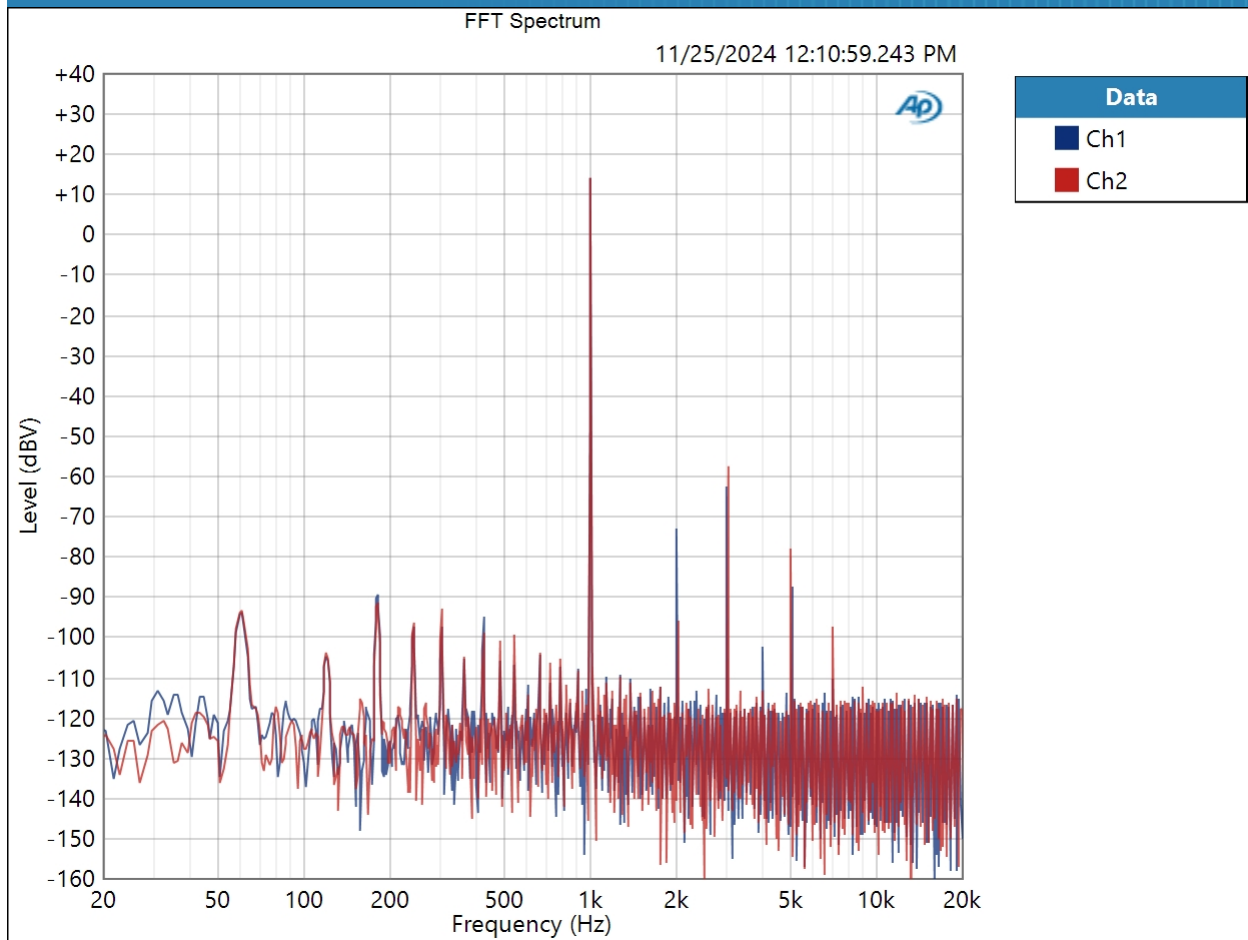
Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (11/25/2024 12:10:57.424 PM)

Ch1 -1.906 mV
Ch2 1.678 mV

8 Ohm Stereo Feedback Off : Signal Analyzer

Waveform: Sine
Generator Level: 110.0 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 11/25/2024 12:10:59 PM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 100.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32768
Averaging: Power
Averages: 1
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)
FFT Spectrum (11/25/2024 12:10:59.243 PM)

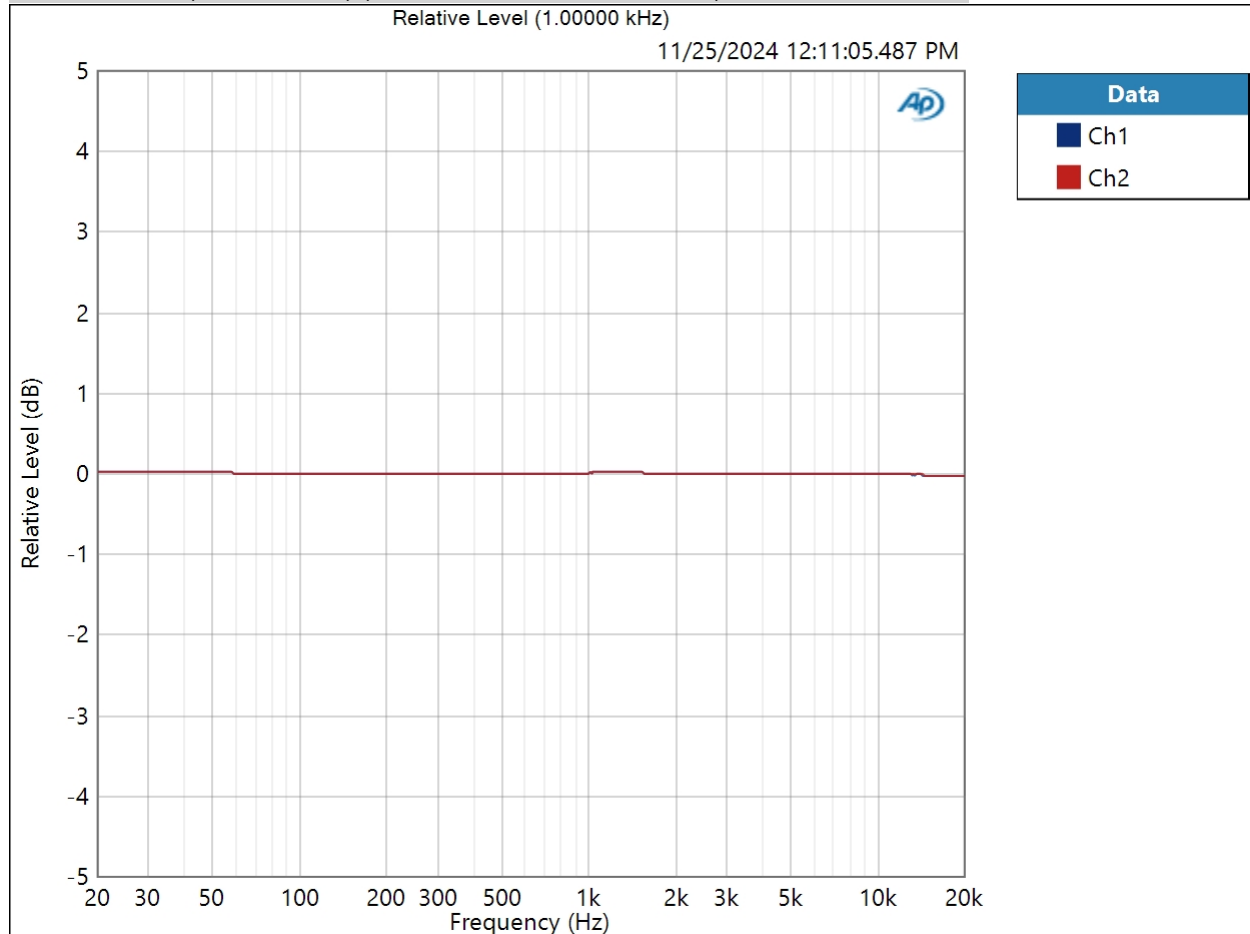


Result: PASSED

8 Ohm Stereo Feedback Off : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 110.0 mVrms
DC Offset: 0.000 V
EQ: None
Pre-Sweep: 100.0 ms
Sweep: 350.0 ms
Extend Acquisition By: 2.000 s
Secondary Source: None
Measured 1 11/25/2024 12:11:05 PM

Relative Level (1.00000 kHz) (11/25/2024 12:11:05.487 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) (11/25/2024 12:11:05.487 PM)

Ch1 ± 0.039 dB

Ch2 ± 0.037 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

8 Ohm Stereo Feedback Off : Signal to Noise Ratio

Waveform: Sine

Generator Level: 2.000 Vrms

DC Offset: 0.000 V

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 (11/25/2024 12:11:07.899 PM)

Ch1 122.784 dB

Ch2 122.567 dB

8 Ohm Stereo Feedback Off : THD+N

Waveform: Sine
 Generator Level: 110.0 mVrms
 DC Offset: 0.000 V
 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 (11/25/2024 12:11:09.913 PM)

Ch1 0.006636 %

Ch2 0.011654 %

THD Ratio (11/25/2024 12:11:09.913 PM)

Ch1 0.006514 %

Ch2 0.011673 %

Noise Ratio (11/25/2024 12:11:09.913 PM)

Ch1 0.001464 %

Ch2 0.001486 %

Distortion Product Ratio (11/25/2024 12:11:09.913 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	-88.38	-85.55	-120.97	-117.72	-126.07	-129.58	-134.28	-130.28	-126.02
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-110.44	-78.67	-125.75	-104.64	-128.68	-127.51	-128.88	-128.82	-127.87

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

8 Ohm Stereo Feedback Off : 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: 1.000 Vrms

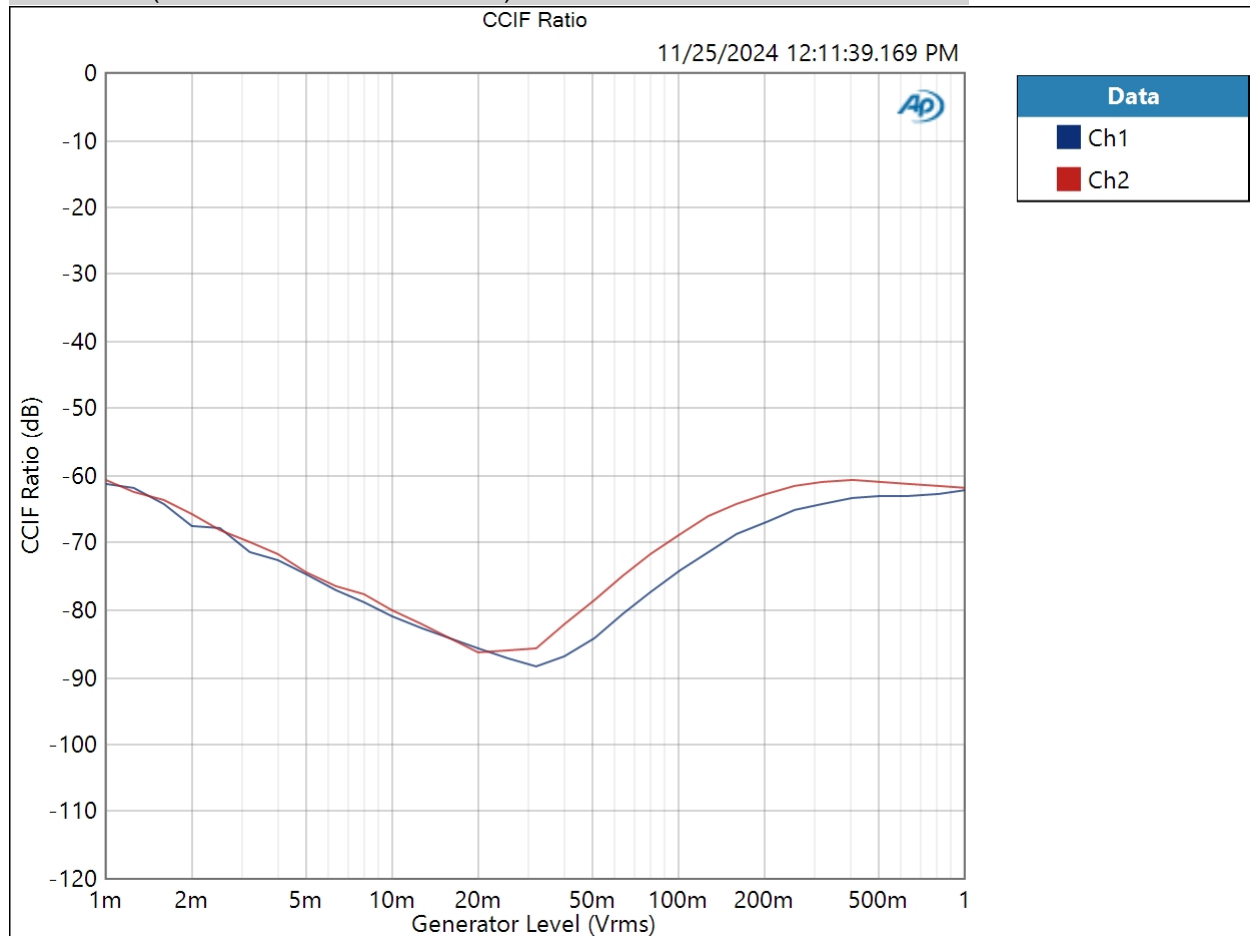
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 11/25/2024 12:11:39 PM

CCIF Ratio (11/25/2024 12:11:39.169 PM)



Result: PASSED

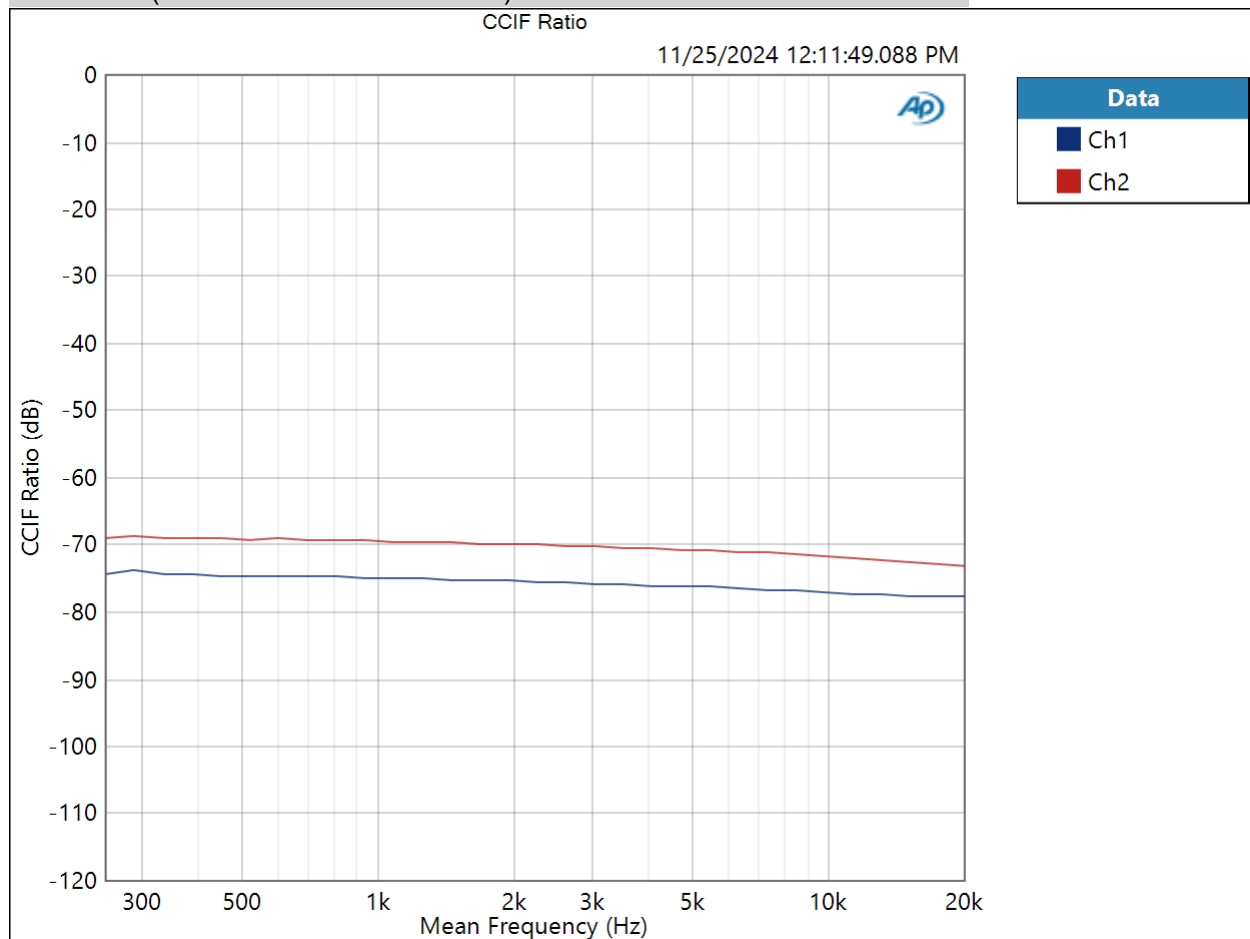
11/25/2024 12:22 PM

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8 Ohm Stereo Feedback Off : IMD Frequency Sweep (CCIF)

Generator Level: 110.0 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 11/25/2024 12:11:49 PM

CCIF Ratio (11/25/2024 12:11:49.088 PM)



Result:  PASSED

8 Ohm Stereo Feedback Off : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: 110.0 mVrms

DC Offset: 0.000 V

Frequency: 10.0000 kHz

Crosstalk (11/25/2024 12:11:51.095 PM)

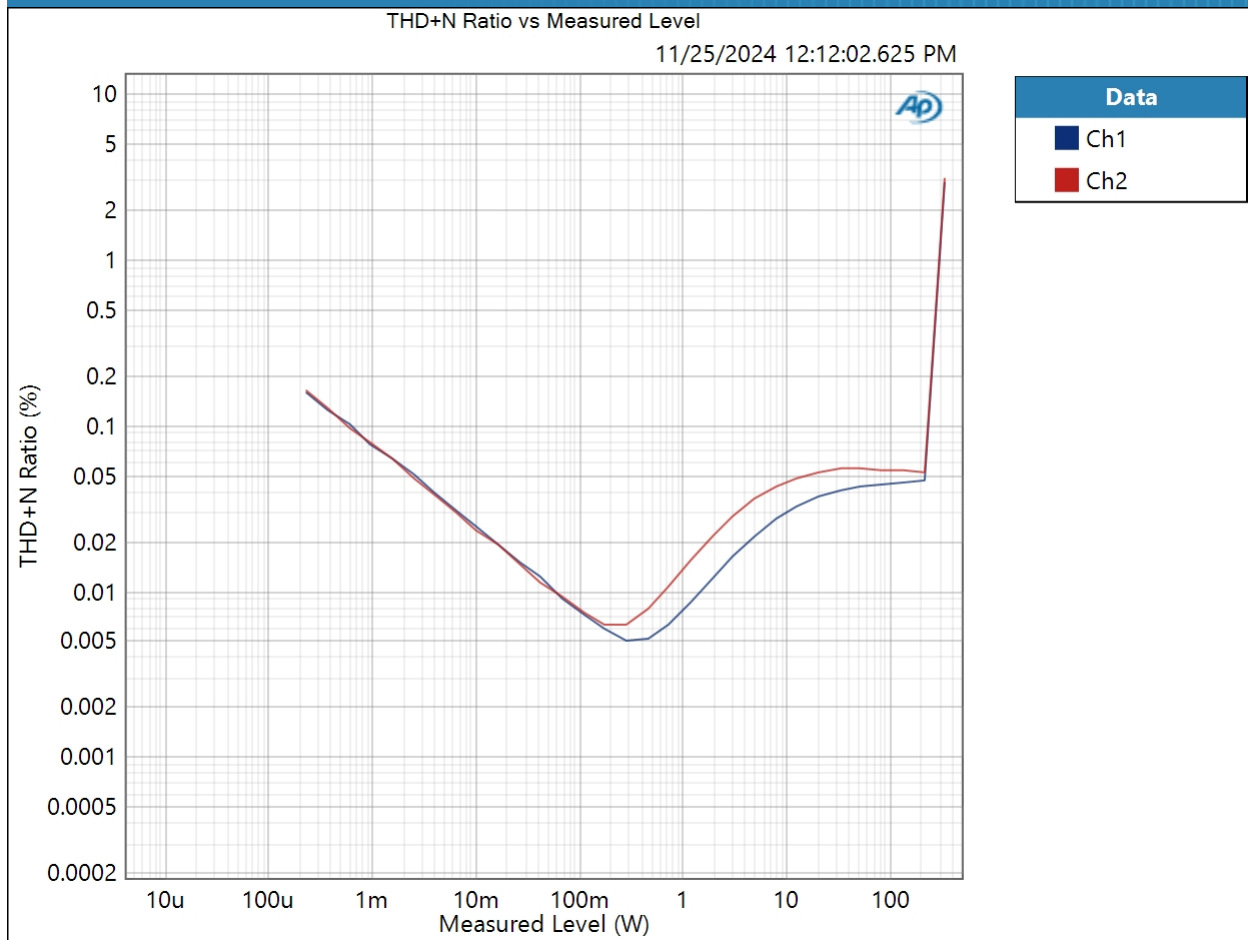
Ch1 -92.160 dB

Ch2 -90.066 dB

8 Ohm Stereo Feedback Off : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 1.000 mVrms
Stop Level: 1.200 Vrms
Step Type: Logarithmic
Number of Points: 31
Offset: 0.000 V
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 11/25/2024 12:12:02 PM

THD+N Ratio vs Measured Level (11/25/2024 12:12:02.625 PM)



Result: PASSED

8 Ohm Stereo Feedback On : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 20 kHz (44.1 kHz SR)
Input EQ:	None
Termination:	200 kohm
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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• DCX

DCX is not detected.

8 Ohm Stereo Feedback On : Level and Gain

Waveform: Sine
Generator Level: 110.0 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (11/25/2024 12:07:48.408 PM)

Ch1 2.242 Vrms
Ch2 2.244 Vrms

8 Ohm Stereo Feedback On : DC Level

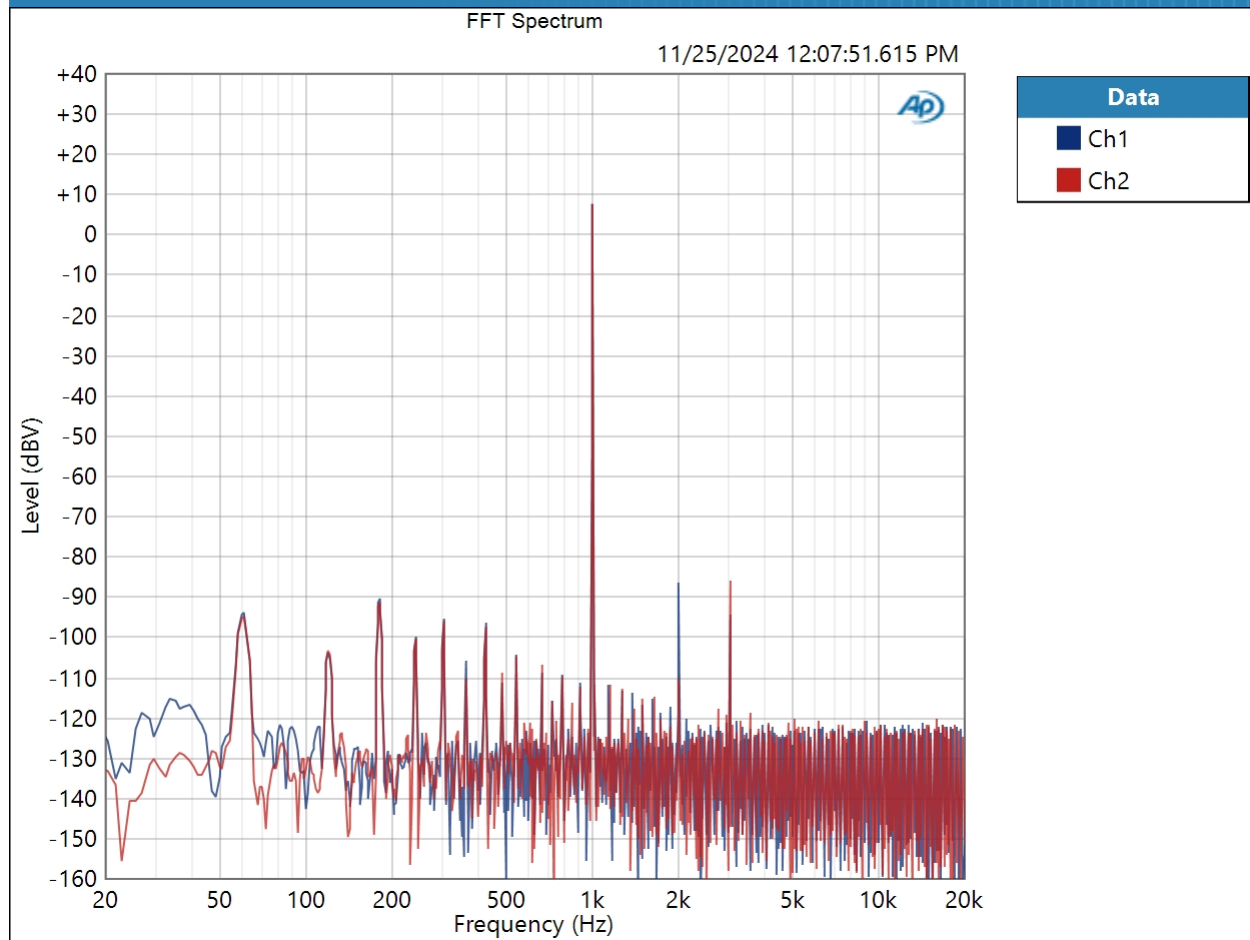
Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (11/25/2024 12:07:49.735 PM)

Ch1 -1.501 mV
Ch2 807.9 uV

8 Ohm Stereo Feedback On : Signal Analyzer

Waveform: Sine
Generator Level: 110.0 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 11/25/2024 12:07:51 PM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 100.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32768
Averaging: Power
Averages: 1
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)
FFT Spectrum (11/25/2024 12:07:51.615 PM)



Result:  PASSED

8 Ohm Stereo Feedback On : Frequency Response

Start Frequency: 20.0000 Hz

Stop Frequency: 20.0000 kHz

Generator Level: 110.0 mVrms

DC Offset: 0.000 V

EQ: None

Pre-Sweep: 100.0 ms

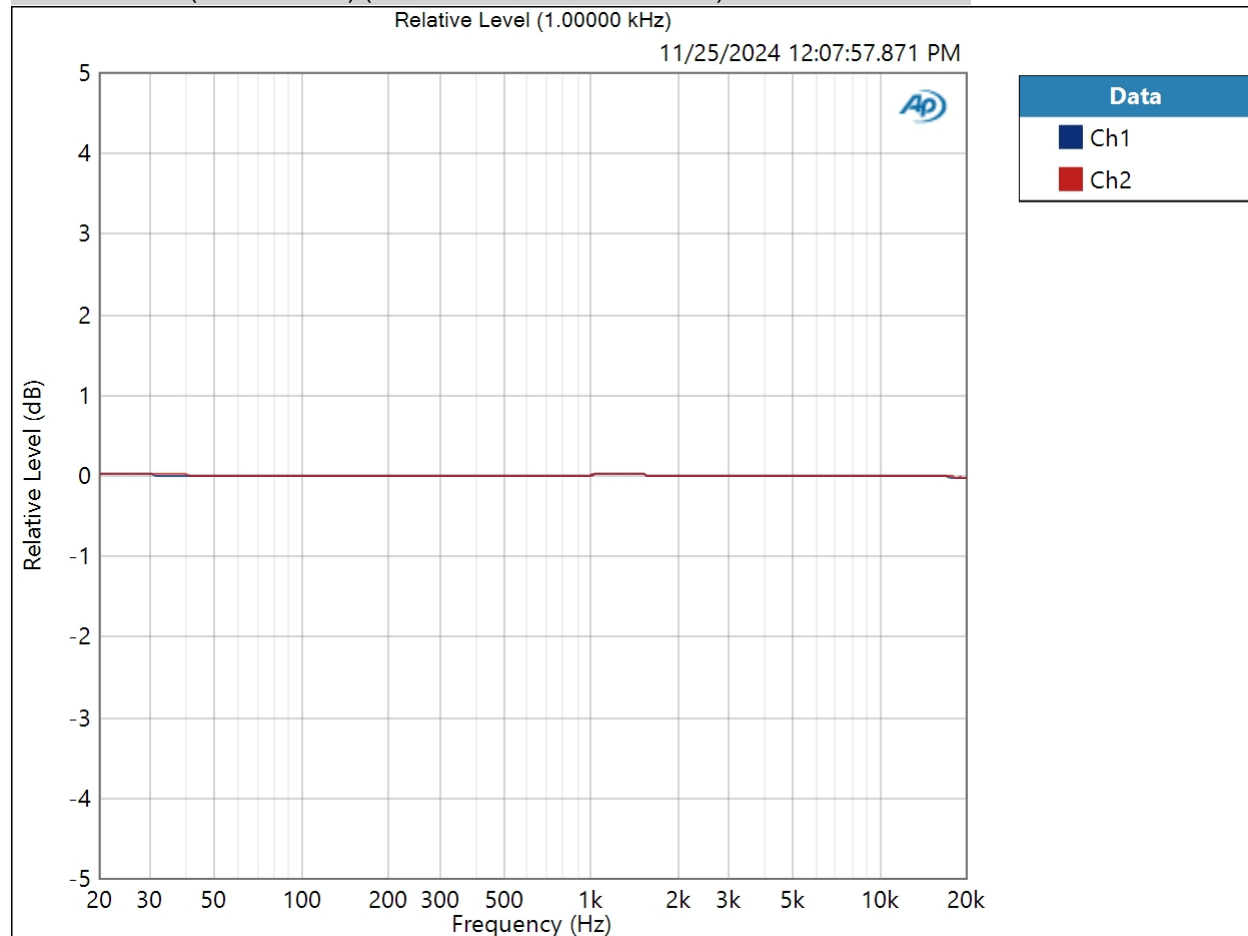
Sweep: 350.0 ms

Extend Acquisition By: 2.000 s

Secondary Source: None

Measured 1 11/25/2024 12:07:57 PM

Relative Level (1.00000 kHz) (11/25/2024 12:07:57.871 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) (11/25/2024 12:07:57.871 PM)

Ch1 ± 0.025 dB

Ch2 ± 0.024 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

8 Ohm Stereo Feedback On : Signal to Noise Ratio

Waveform: Sine

Generator Level: 1.000 Vrms

DC Offset: 0.000 V

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 (11/25/2024 12:17:04.304 PM)

Ch1 120.108 dB

Ch2 120.231 dB

8 Ohm Stereo Feedback On : THD+N

Waveform: Sine
 Generator Level: 110.0 mVrms
 DC Offset: 0.000 V
 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 (11/25/2024 12:08:02.408 PM)

Ch1 0.003199 %

Ch2 0.003011 %

THD Ratio (11/25/2024 12:08:02.408 PM)

Ch1 0.002272 %

Ch2 0.002187 %

Noise Ratio (11/25/2024 12:08:02.408 PM)

Ch1 0.002243 %

Ch2 0.002073 %

Distortion Product Ratio (11/25/2024 12:08:02.408 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	-93.53	-101.52	-128.88	-130.49	-129.39	-126.62	-126.33	-129.61	-131.82
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-113.69	-93.26	-131.68	-126.57	-127.27	-130.84	-127.76	-126.39	-130.34

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

8 Ohm Stereo Feedback On : 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: 1.800 Vrms

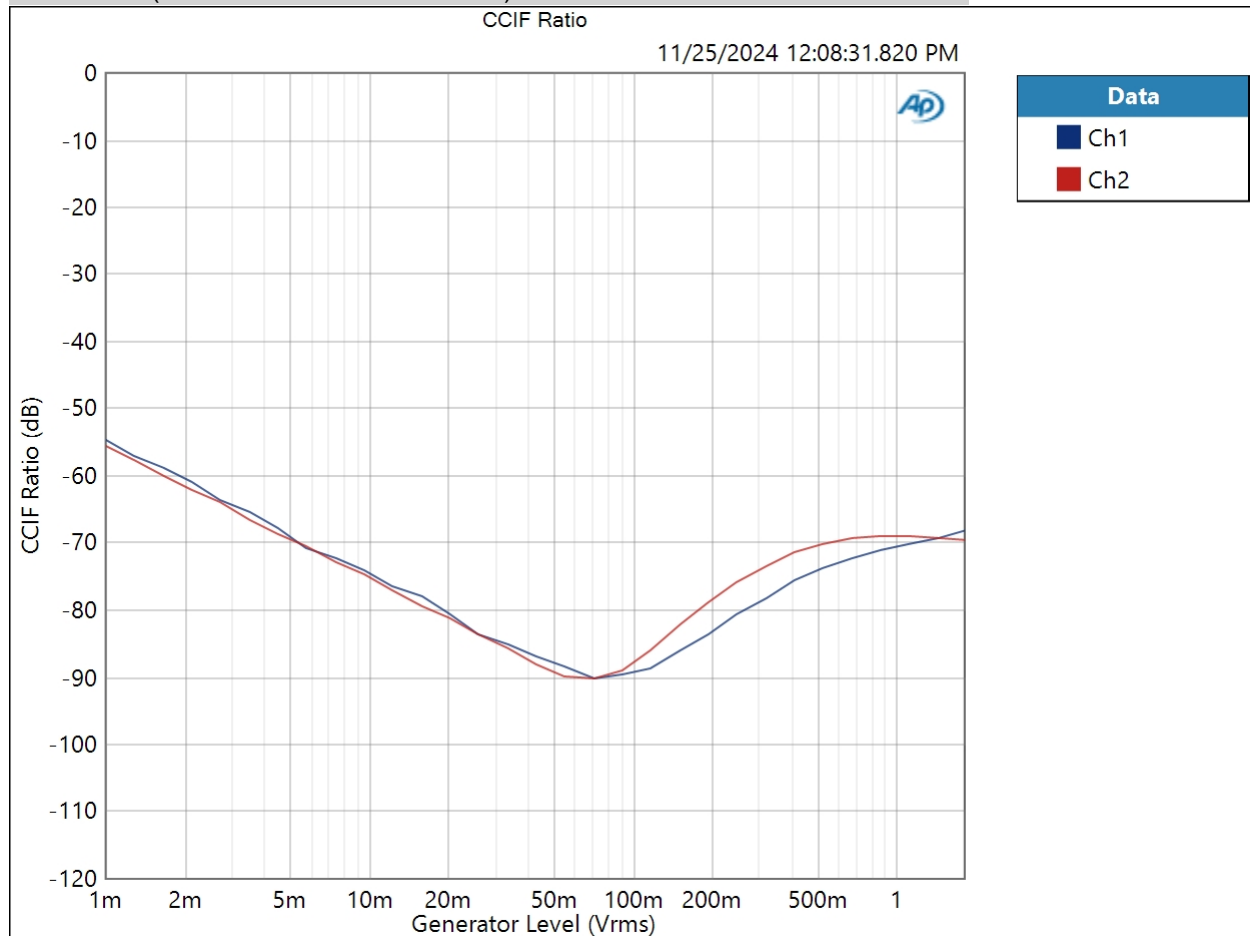
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 11/25/2024 12:08:31 PM

CCIF Ratio (11/25/2024 12:08:31.820 PM)



Result: PASSED

11/25/2024 12:22 PM

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8 Ohm Stereo Feedback On : IMD Frequency Sweep (CCIF)

Generator Level: 110.0 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

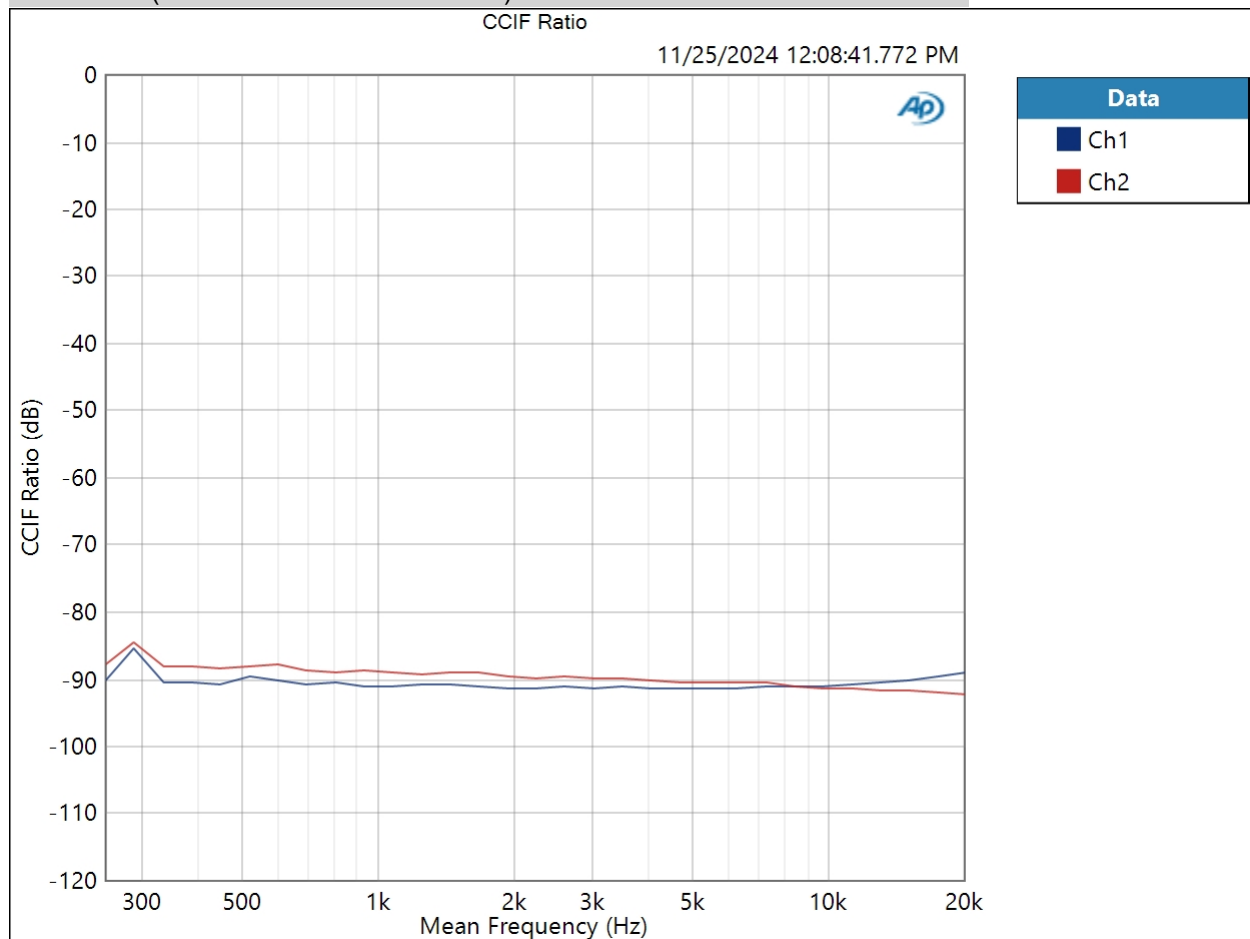
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 11/25/2024 12:08:41 PM

CCIF Ratio (11/25/2024 12:08:41.772 PM)



Result:  PASSED

8 Ohm Stereo Feedback On : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: 110.0 mVrms

DC Offset: 0.000 V

Frequency: 10.0000 kHz

Crosstalk (11/25/2024 12:08:45.923 PM)

Ch1 -97.826 dB

Ch2 -96.627 dB

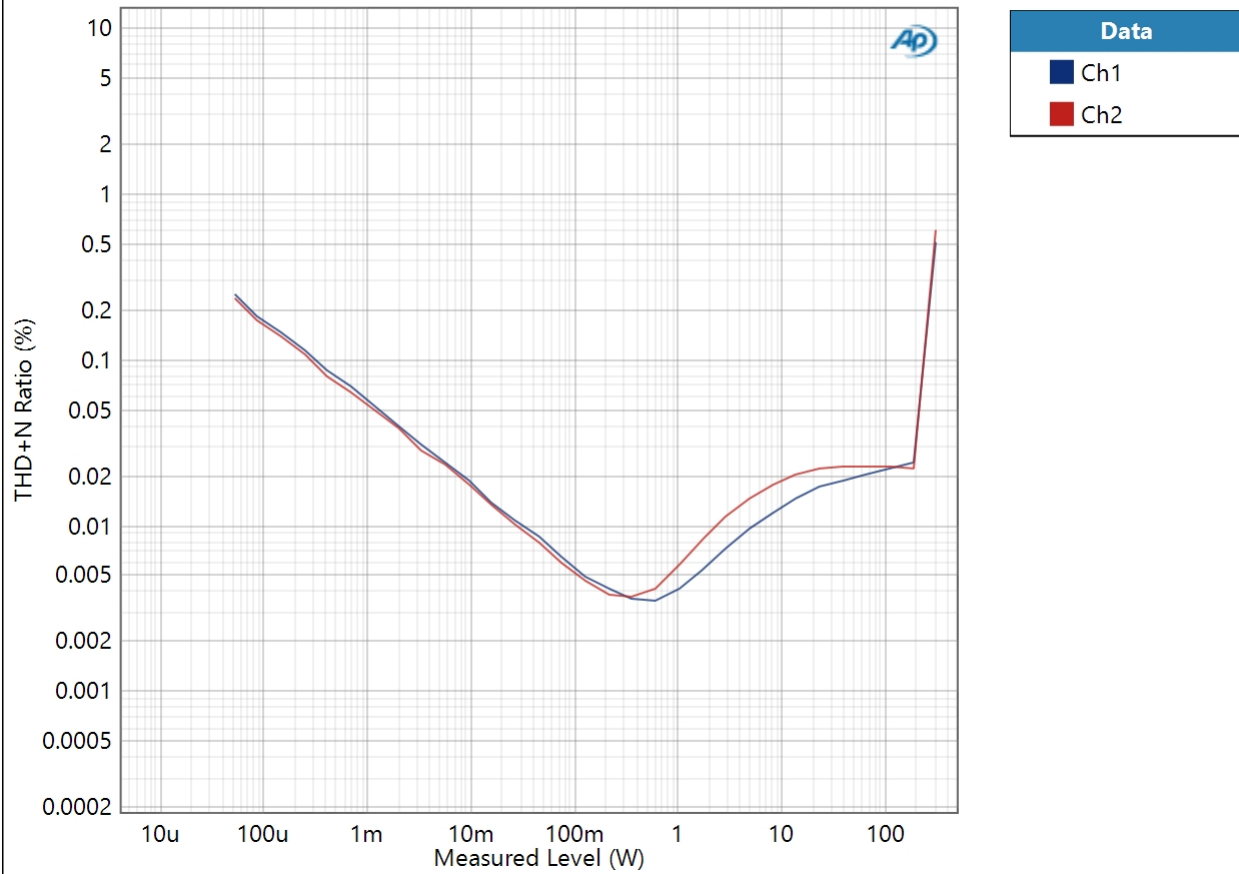
8 Ohm Stereo Feedback On : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 1.000 mVrms
Stop Level: 2.400 Vrms
Step Type: Logarithmic
Number of Points: 31
Offset: 0.000 V
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 11/25/2024 12:09:46 PM

THD+N Ratio vs Measured Level (11/25/2024 12:09:46.204 PM)

THD+N Ratio vs Measured Level

11/25/2024 12:09:46.204 PM



Result: PASSED

4 Ohm Stereo Feedback Off : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Input EQ:	None
Termination:	200 kohm
Input 2:	None
Device Delay:	0.000 s

• References

dBr G:	100.0 mVrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	4.000 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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• DCX

DCX is not detected.

4 Ohm Stereo Feedback Off : Level and Gain

Waveform: Sine
Generator Level: 55.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (11/25/2024 12:18:14.937 PM)

Ch1 2.325 Vrms
Ch2 2.322 Vrms

4 Ohm Stereo Feedback Off : DC Level

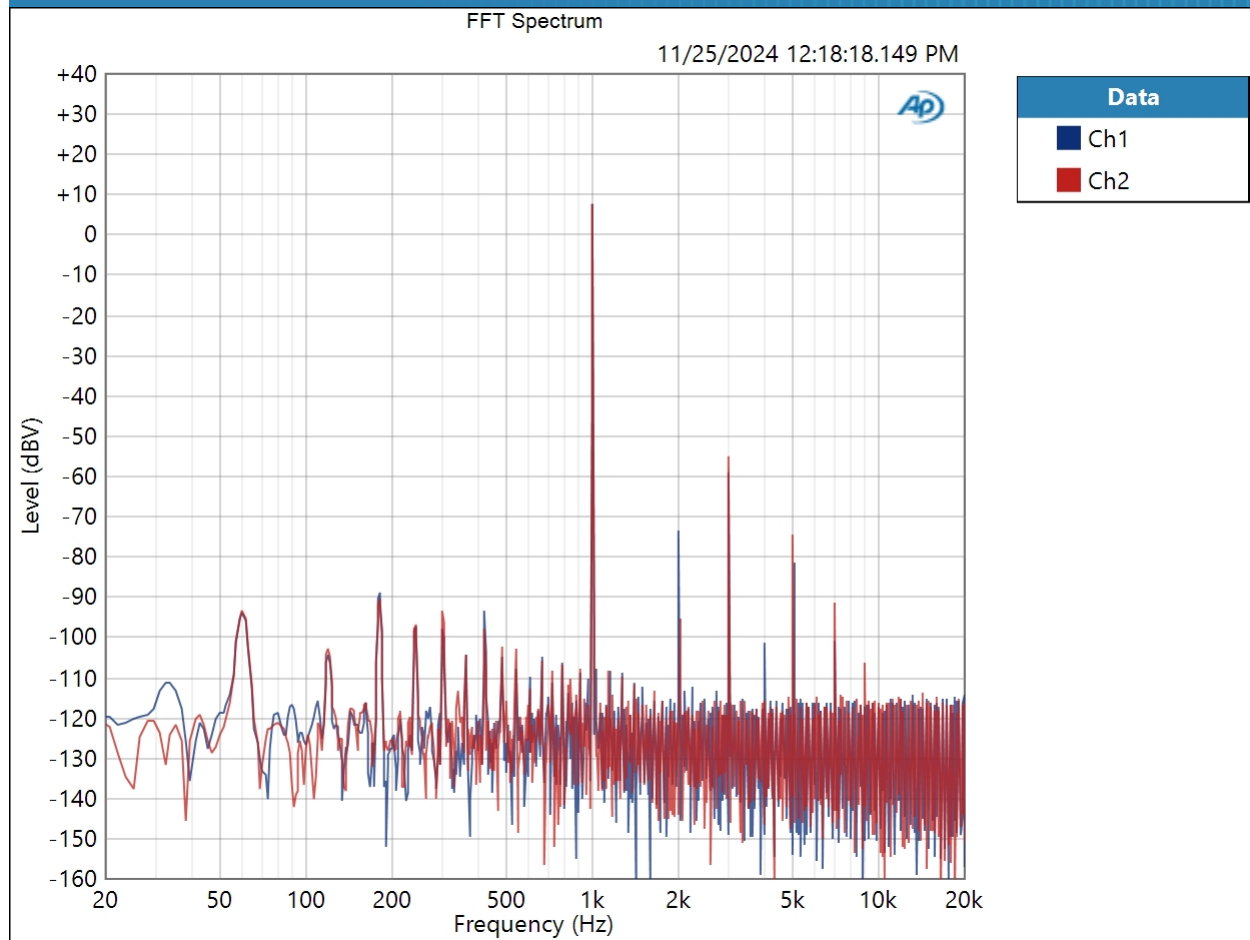
Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (11/25/2024 12:18:16.154 PM)

Ch1 -2.746 mV
Ch2 0.940 mV

4 Ohm Stereo Feedback Off : Signal Analyzer

Waveform: Sine
Generator Level: 55.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 11/25/2024 12:18:18 PM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32768
Averaging: Power
Averages: 1
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)
FFT Spectrum (11/25/2024 12:18:18.149 PM)



Result: PASSED

4 Ohm Stereo Feedback Off : Frequency Response

Start Frequency: 20.0000 Hz

Stop Frequency: 20.0000 kHz

Generator Level: 55.00 mVrms

DC Offset: 0.000 V

EQ: None

Pre-Sweep: 100.0 ms

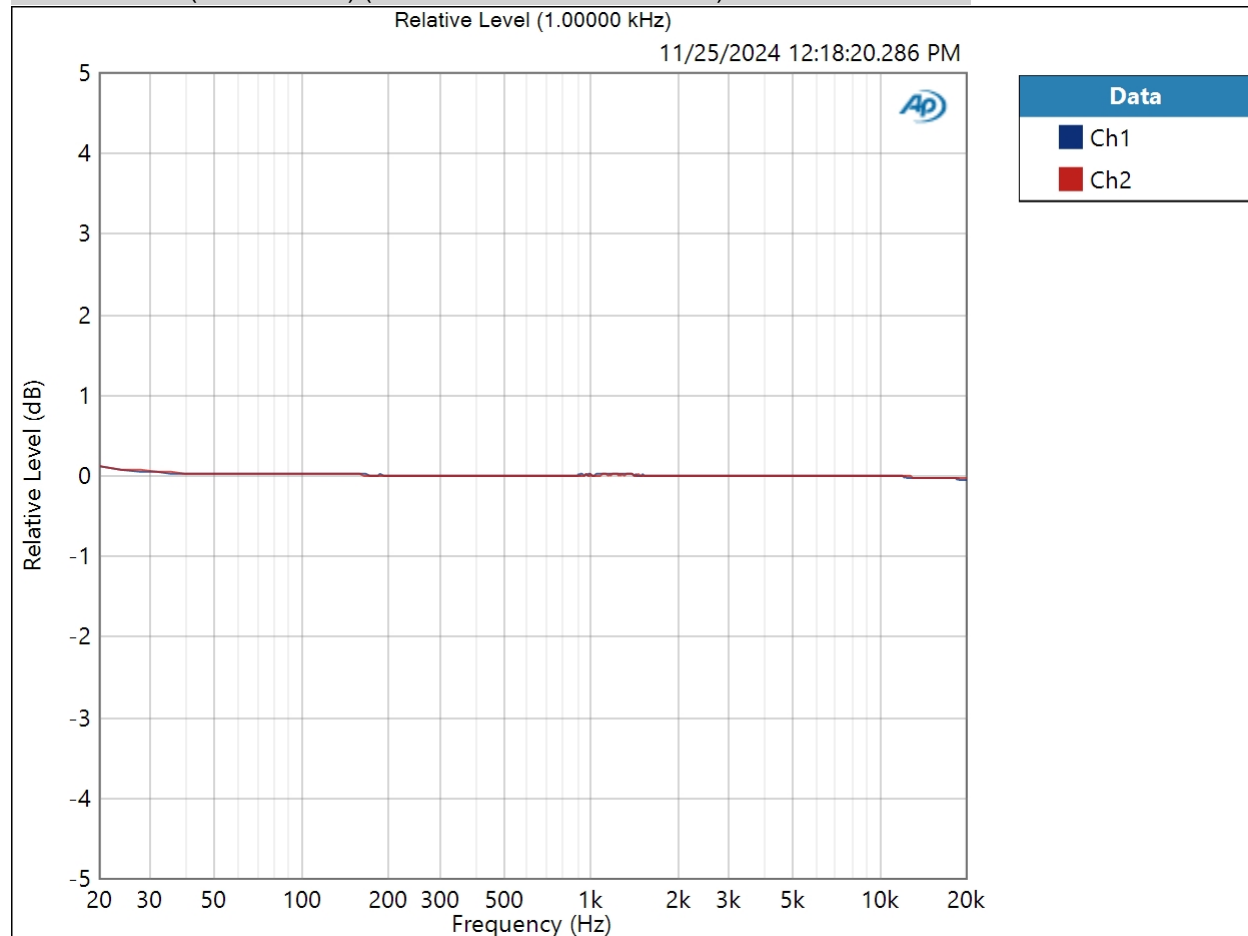
Sweep: 350.0 ms

Extend Acquisition By: 50.00 ms

Secondary Source: None

Measured 1 11/25/2024 12:18:20 PM

Relative Level (1.00000 kHz) (11/25/2024 12:18:20.286 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) (11/25/2024 12:18:20.286 PM)

Ch1 ± 0.077 dB

Ch2 ± 0.076 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

4 Ohm Stereo Feedback Off : Signal to Noise Ratio

Waveform: Sine

Generator Level: 1.000 Vrms

DC Offset: 0.000 V

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 (11/25/2024 12:18:22.410 PM)

Ch1 120.184 dB

Ch2 120.100 dB

4 Ohm Stereo Feedback Off : THD+N

Waveform: Sine
 Generator Level: 55.00 mVrms
 DC Offset: 0.000 V
 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 (11/25/2024 12:18:24.352 PM)

Ch1 0.037814 %

Ch2 0.060599 %

THD Ratio (11/25/2024 12:18:24.352 PM)

Ch1 0.037686 %

Ch2 0.060492 %

Noise Ratio (11/25/2024 12:18:24.352 PM)

Ch1 0.003005 %

Ch2 0.002861 %

Distortion Product Ratio (11/25/2024 12:18:24.352 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	-80.82	-68.76	-110.21	-92.25	-122.02	-114.08	-122.07	-123.41	-122.34
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-102.87	-64.41	-117.47	-84.97	-124.97	-102.84	-124.10	-119.33	-124.29

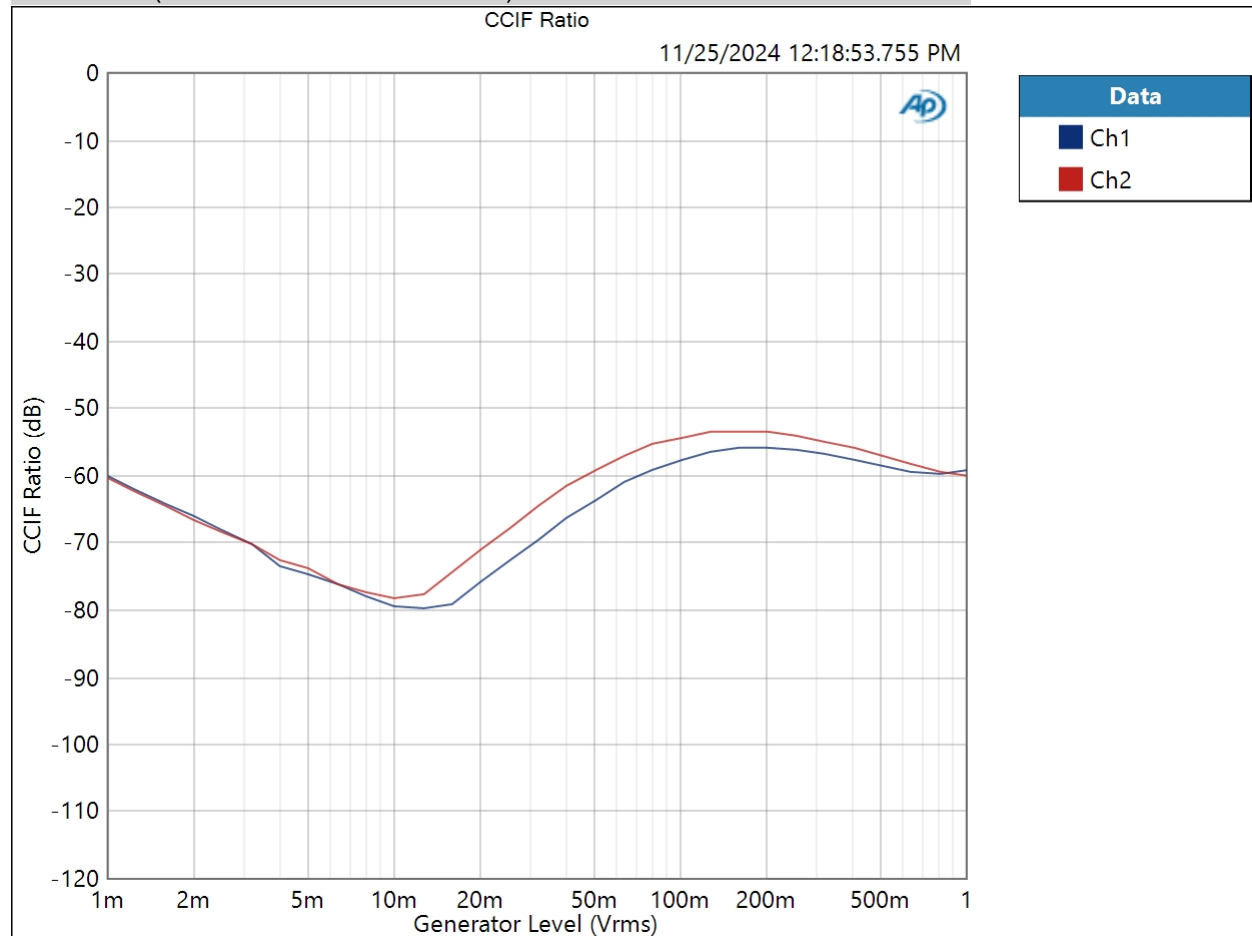
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

4 Ohm Stereo Feedback Off : 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: 1.000 Vrms
Step Type: Logarithmic
Number of Points: 31
Mode: d2+d3
Measured 1 11/25/2024 12:18:53 PM

CCIF Ratio (11/25/2024 12:18:53.755 PM)



Result: PASSED

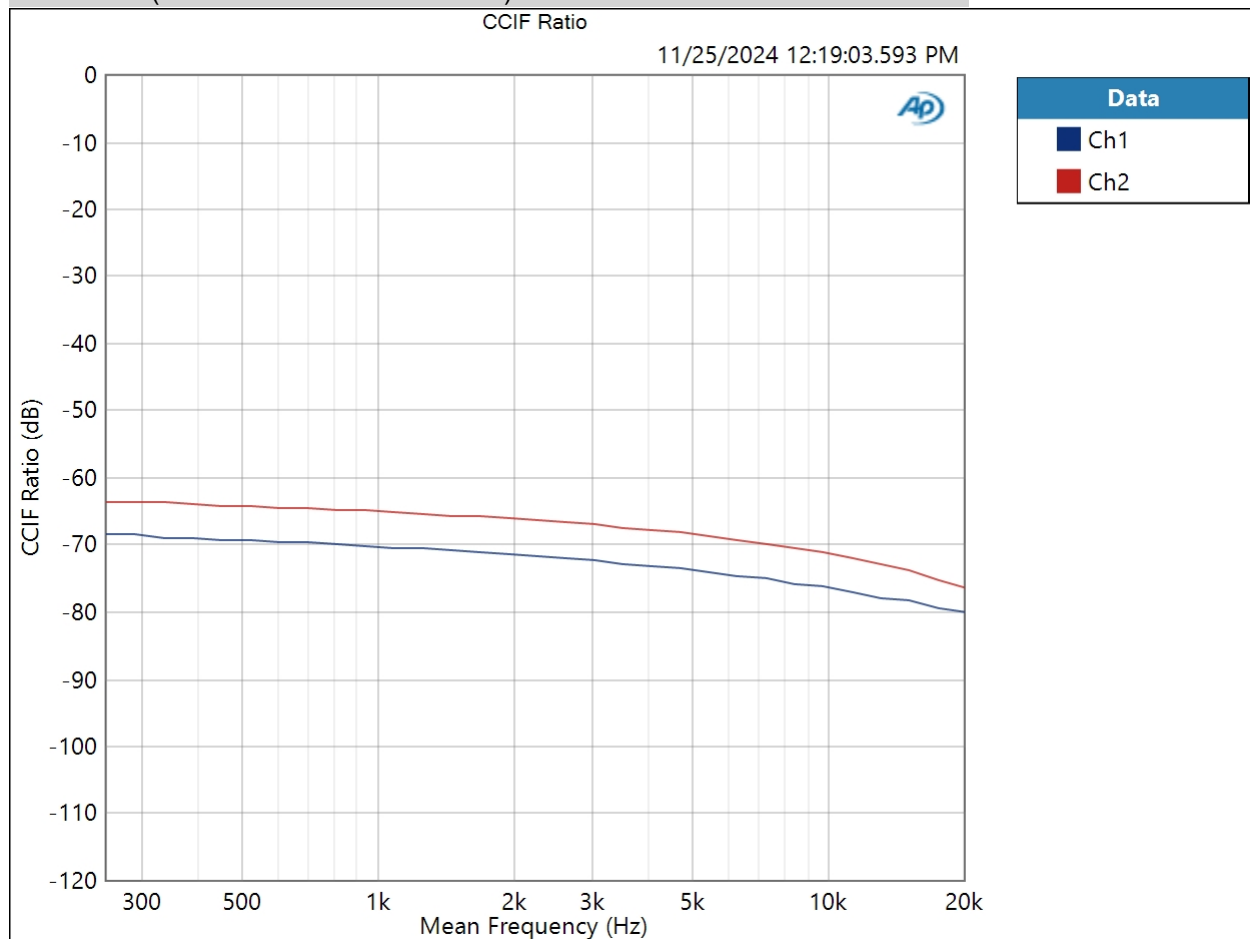
11/25/2024 12:22 PM

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4 Ohm Stereo Feedback Off : IMD Frequency Sweep (CCIF)

Generator Level: 55.00 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 11/25/2024 12:19:03 PM

CCIF Ratio (11/25/2024 12:19:03.593 PM)



Result:  PASSED

4 Ohm Stereo Feedback Off : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: 55.00 mVrms

DC Offset: 0.000 V

Frequency: 10.0000 kHz

Crosstalk (11/25/2024 12:19:07.287 PM)

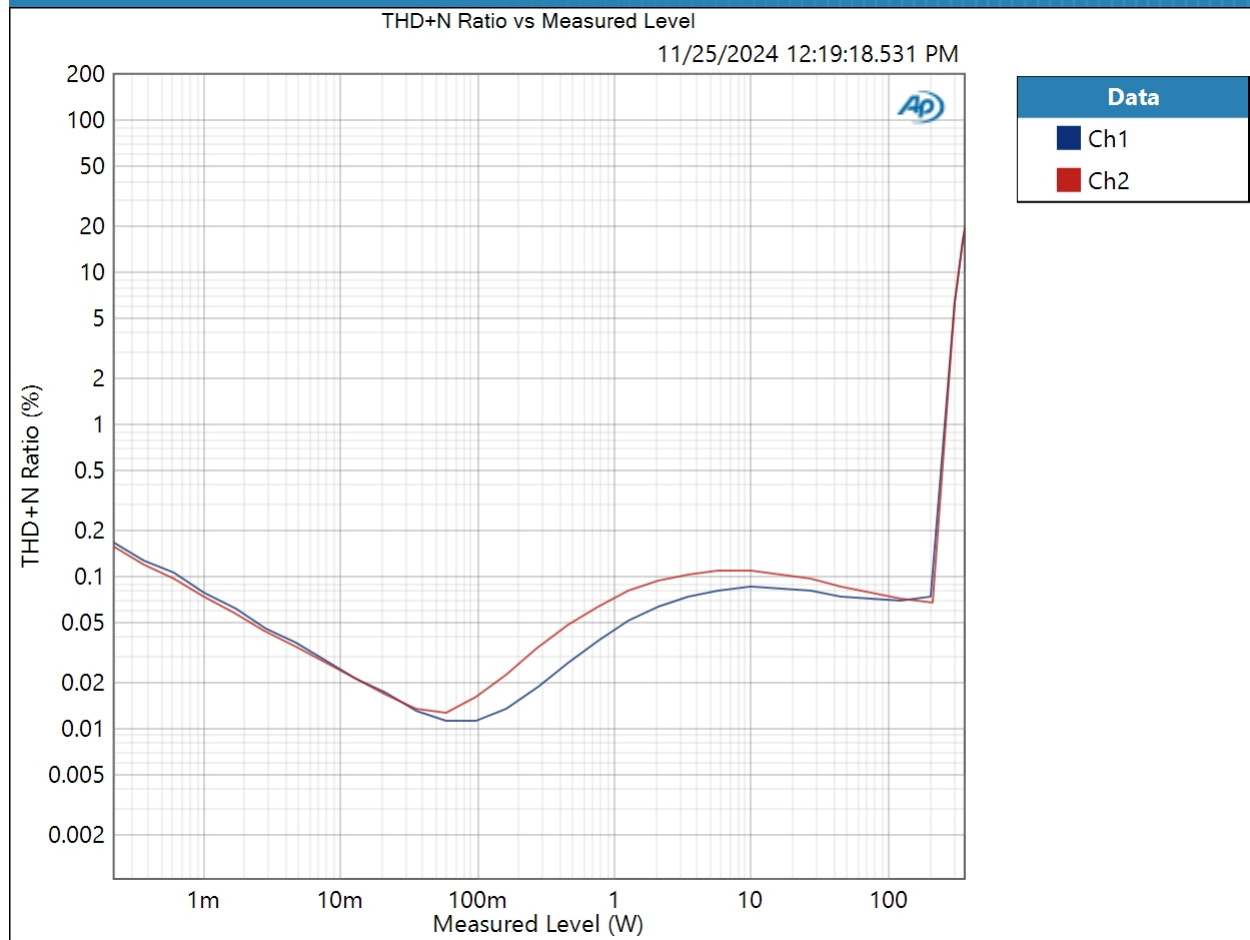
Ch1 -87.358 dB

Ch2 -97.345 dB

4 Ohm Stereo Feedback Off : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 1.000 mVrms
Stop Level: 2.000 Vrms
Step Type: Logarithmic
Number of Points: 31
Offset: 0.000 V
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 11/25/2024 12:19:18 PM

THD+N Ratio vs Measured Level (11/25/2024 12:19:18.531 PM)



Result: PASSED

4 Ohm Stereo Feedback On : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Input EQ:	None
Termination:	200 kohm
Input 2:	None
Device Delay:	0.000 s

• References

dBr G:	100.0 mVrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	4.000 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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm

• DCX

DCX is not detected.

4 Ohm Stereo Feedback On : Level and Gain

Waveform: Sine
Generator Level: 55.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (11/25/2024 12:21:34.668 PM)

Ch1 1.110 Vrms
Ch2 1.109 Vrms

4 Ohm Stereo Feedback On : DC Level

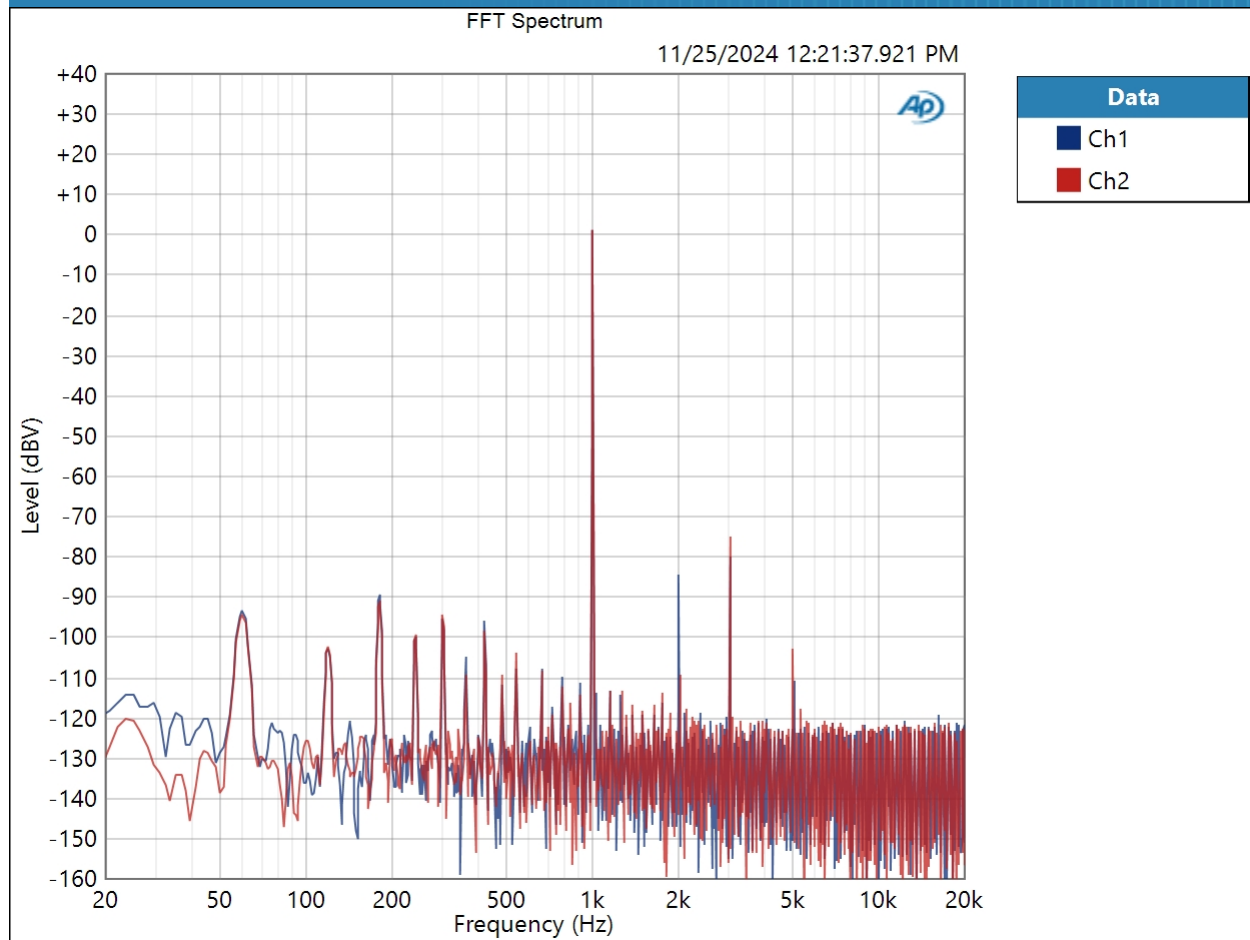
Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (11/25/2024 12:21:35.976 PM)

Ch1 -2.788 mV
Ch2 -173.5 uV

4 Ohm Stereo Feedback On : Signal Analyzer

Waveform: Sine
Generator Level: 55.00 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 11/25/2024 12:21:37 PM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32768
Averaging: Power
Averages: 1
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)
FFT Spectrum (11/25/2024 12:21:37.921 PM)



Result:  PASSED

4 Ohm Stereo Feedback On : Frequency Response

Start Frequency: 20.0000 Hz

Stop Frequency: 20.0000 kHz

Generator Level: 55.00 mVrms

DC Offset: 0.000 V

EQ: None

Pre-Sweep: 100.0 ms

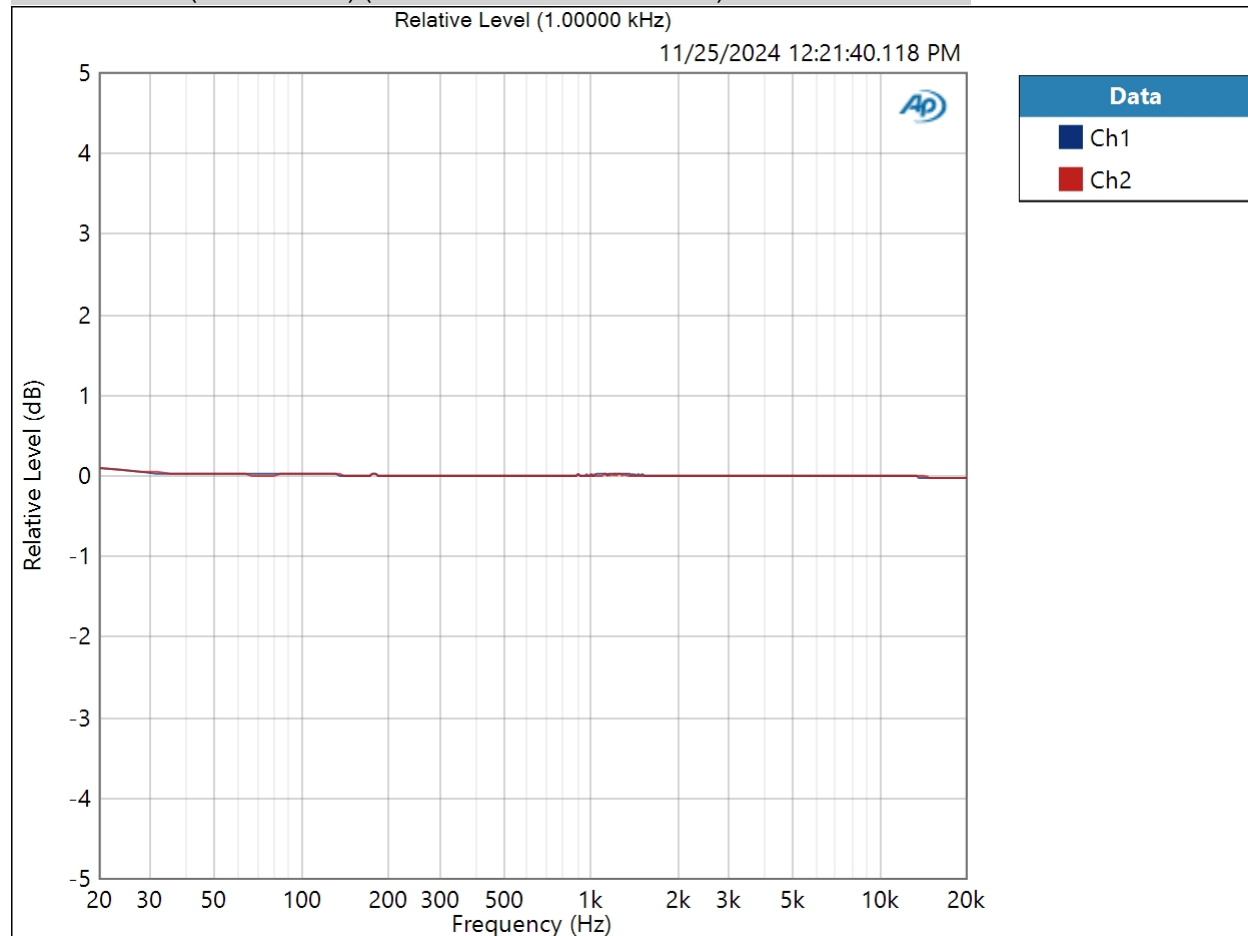
Sweep: 350.0 ms

Extend Acquisition By: 50.00 ms

Secondary Source: None

Measured 1 11/25/2024 12:21:40 PM

Relative Level (1.00000 kHz) (11/25/2024 12:21:40.118 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) (11/25/2024 12:21:40.118 PM)

Ch1 ± 0.063 dB

Ch2 ± 0.063 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

4 Ohm Stereo Feedback On : Signal to Noise Ratio

Waveform: Sine

Generator Level: 2.000 Vrms

DC Offset: 0.000 V

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 (11/25/2024 12:21:42.564 PM)

Ch1 124.107 dB

Ch2 124.415 dB

4 Ohm Stereo Feedback On : THD+N

Waveform: Sine
 Generator Level: 55.00 mVrms
 DC Offset: 0.000 V
 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 (11/25/2024 12:21:45.146 PM)

Ch1 0.009698 %

Ch2 0.013039 %

THD Ratio (11/25/2024 12:21:45.146 PM)

Ch1 0.008534 %

Ch2 0.012432 %

Noise Ratio (11/25/2024 12:21:45.146 PM)

Ch1 0.004695 %

Ch2 0.004376 %

Distortion Product Ratio (11/25/2024 12:21:45.146 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	-85.91	-83.27	-123.16	-116.54	-120.60	-120.91	-121.86	-125.01	-124.66
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-109.67	-78.12	-120.45	-107.55	-121.50	-128.17	-121.96	-117.43	-125.53

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1

4 Ohm Stereo Feedback On : 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: 2.000 Vrms

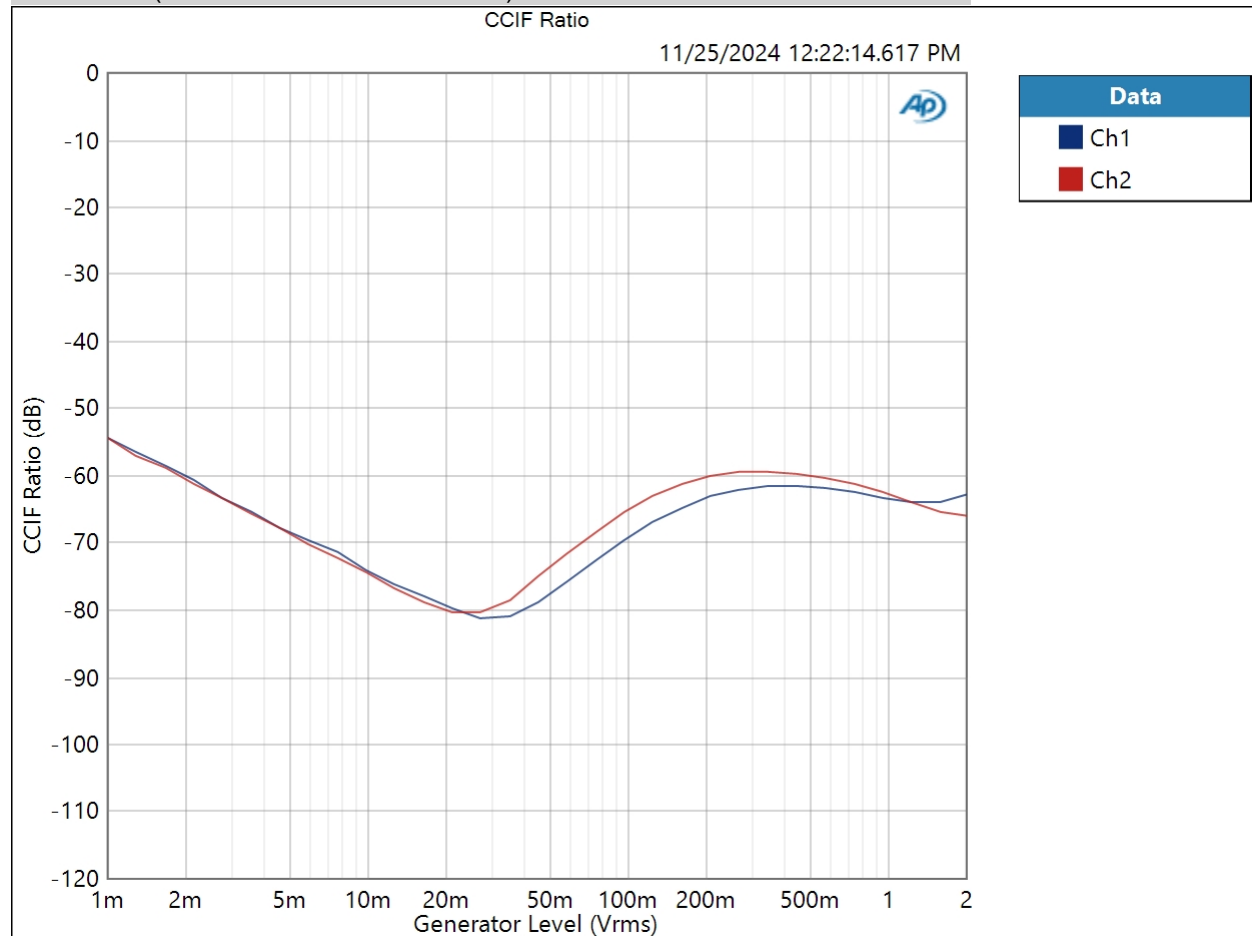
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 11/25/2024 12:22:14 PM

CCIF Ratio (11/25/2024 12:22:14.617 PM)



Result: PASSED

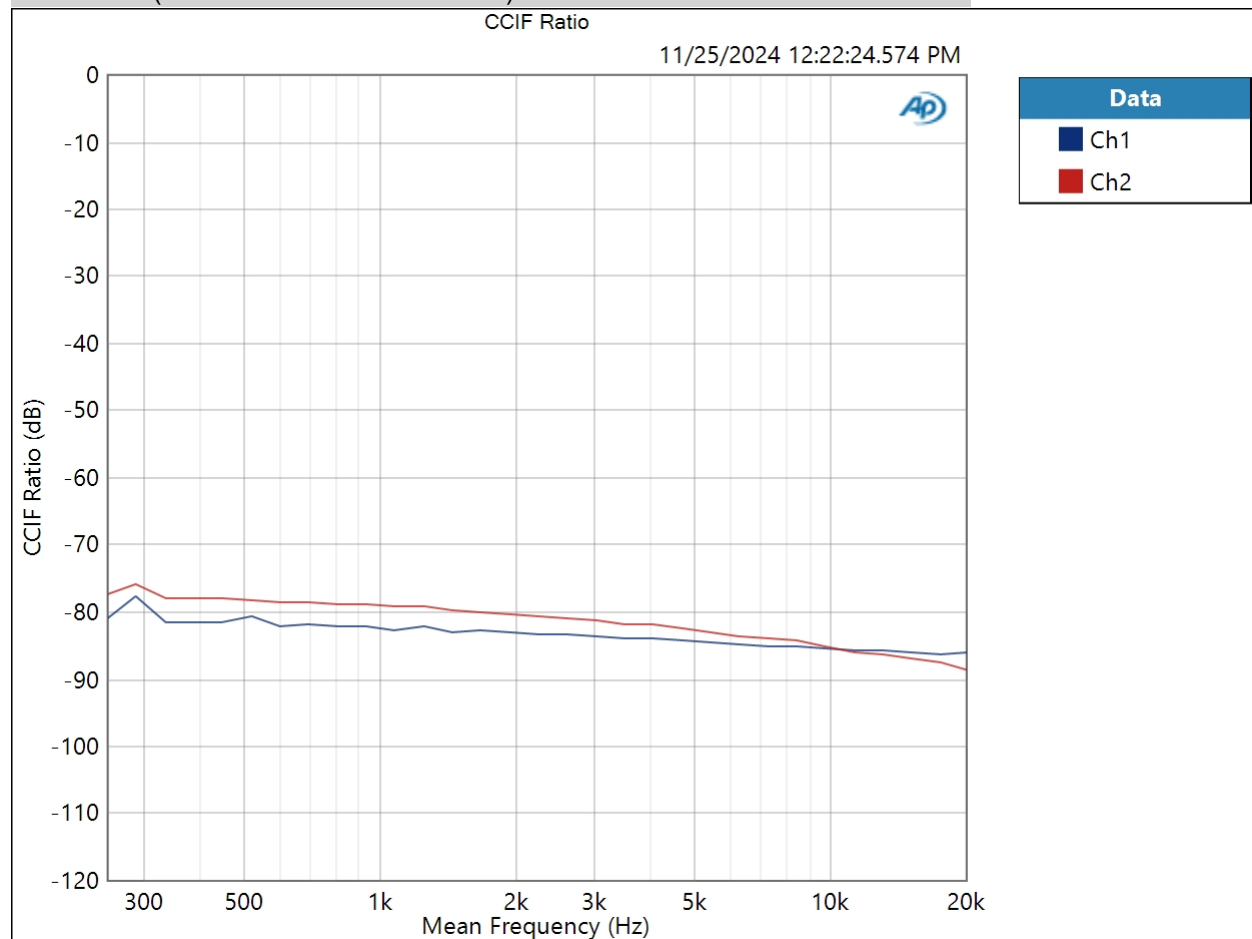
11/25/2024 12:22 PM

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4 Ohm Stereo Feedback On : IMD Frequency Sweep (CCIF)

Generator Level: 55.00 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 11/25/2024 12:22:24 PM

CCIF Ratio (11/25/2024 12:22:24.574 PM)



Result:  PASSED

4 Ohm Stereo Feedback On : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: 55.00 mVrms

DC Offset: 0.000 V

Frequency: 10.0000 kHz

Crosstalk (11/25/2024 12:22:29.748 PM)

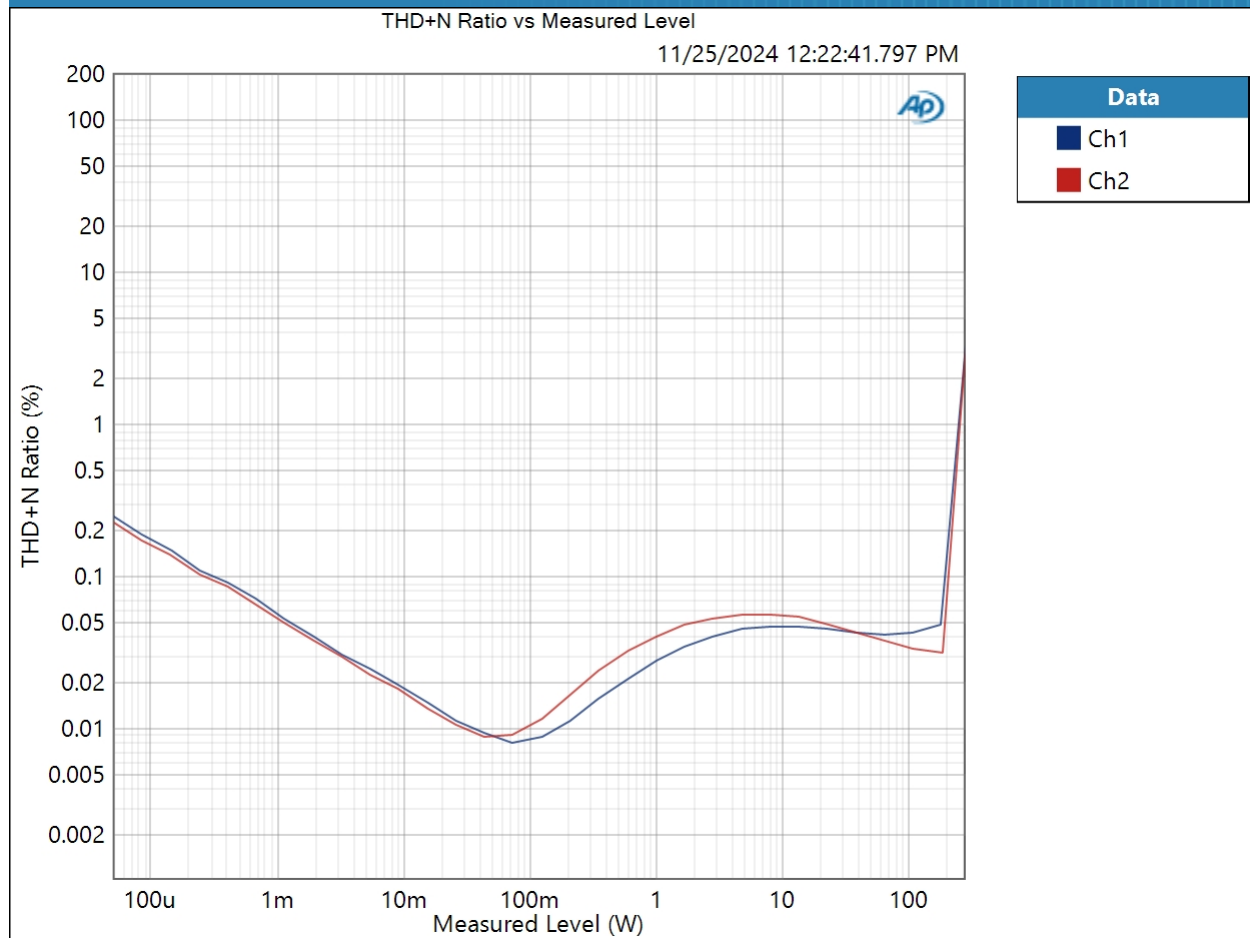
Ch1 -92.751 dB

Ch2 -105.696 dB

4 Ohm Stereo Feedback On : Stepped Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: 1.000 mVrms
Stop Level: 2.400 Vrms
Step Type: Logarithmic
Number of Points: 31
Offset: 0.000 V
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 11/25/2024 12:22:41 PM

THD+N Ratio vs Measured Level (11/25/2024 12:22:41.797 PM)



Result: PASSED