

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@schiiit.com so we can have a look.

Summary

300 Ohm Low Gain

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

300 Ohm High Gain

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

32 Ohm Low Gain

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 Gain

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

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 Gain : 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:	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
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.

• Clocks

Output Rate: Track Output SR
 Sync Out Level: 3.300 V
 Sync Out Polarity: Normal
 Timebase Reference: Internal
 Jitter: Disabled

• Triggers

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

300 Ohm Low Gain : Level and Gain

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Precision Tune: Disabled
 Generator Level: 0.905 Vrms
 Frequency: 1.00000 kHz
 Low-pass Filter: Signal Path

RMS Level (8/18/2022 3:21:40.346 PM)

Ch1 0.996 Vrms
 Ch2 0.995 Vrms

300 Ohm Low Gain : DC Level

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

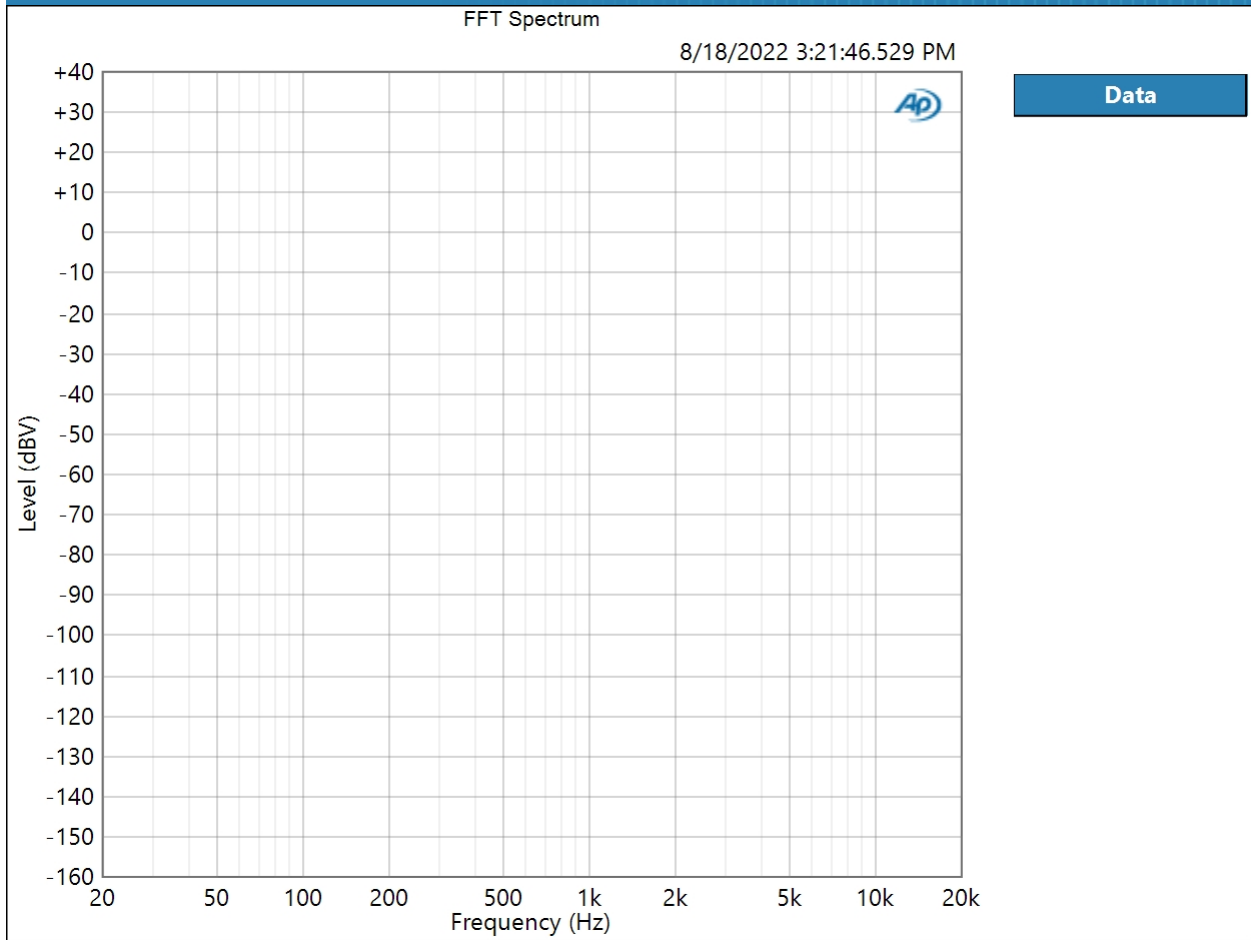
DC Level (8/18/2022 3:21:42.035 PM)

Ch1 -125.0 uV
 Ch2 13.93 uV

300 Ohm Low Gain : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.905 Vrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 8/18/2022 3:21:46 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 (8/18/2022 3:21:46.529 PM)

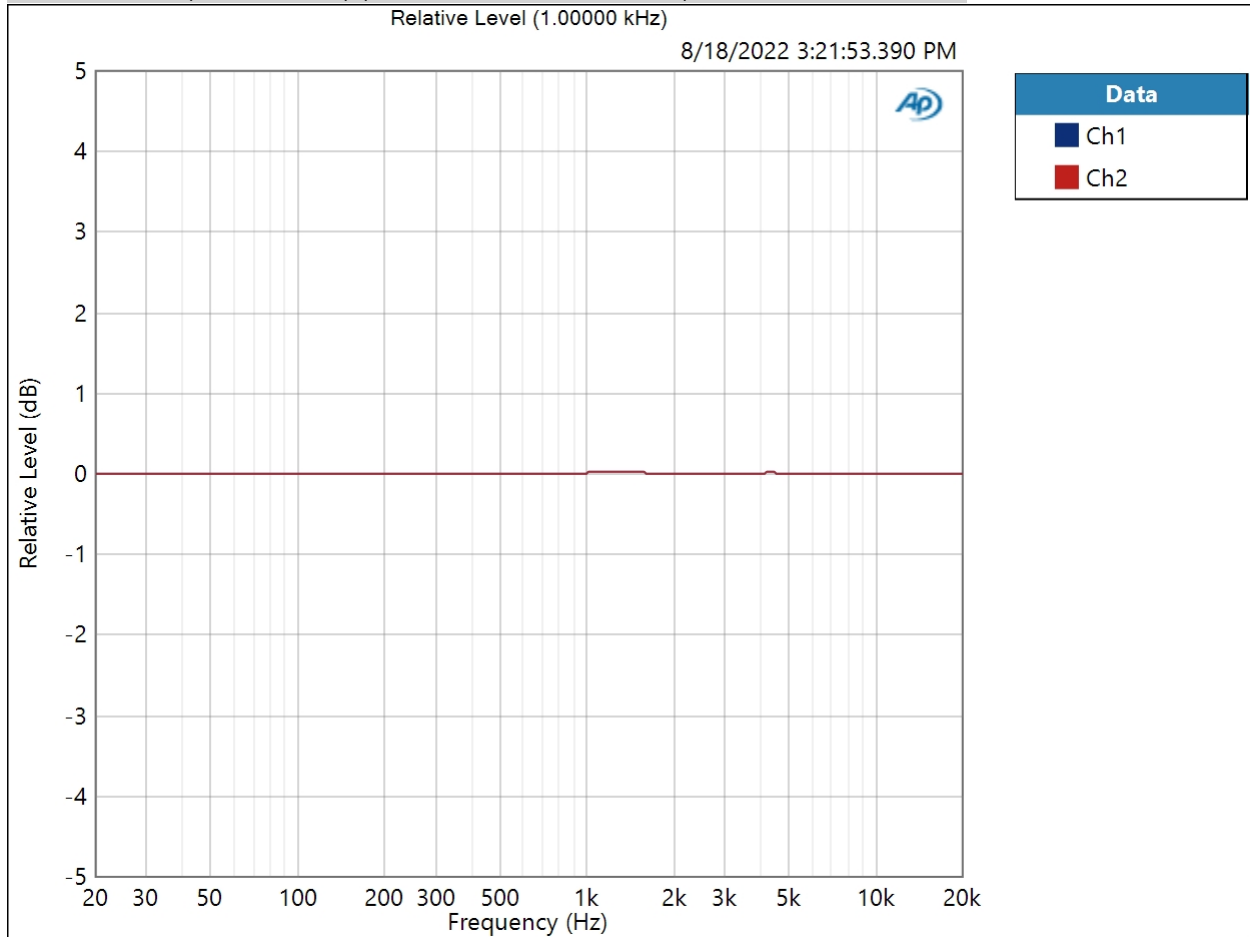


Result:  PASSED

300 Ohm Low Gain : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 0.905 Vrms
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 8/18/2022 3:21:53 PM

Relative Level (1.00000 kHz) (8/18/2022 3:21:53.390 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) (8/18/2022 3:21:53.390 PM)

Ch1 ± 0.010 dB

Ch2 ± 0.010 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm Low Gain : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.905 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 (8/18/2022 3:21:56.385 PM)

Ch1 114.872 dB

Ch2 114.620 dB

300 Ohm Low Gain : THD+N

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Precision Tune: Disabled
 Generator Level: 0.905 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 (8/18/2022 3:21:59.650 PM)

Ch1 0.040275 %
 Ch2 0.039844 %

THD Ratio (8/18/2022 3:21:59.650 PM)

Ch1 0.007726 %
 Ch2 0.007581 %

Noise Ratio (8/18/2022 3:21:59.650 PM)

Ch1 0.000304 %
 Ch2 0.000368 %

Distortion Product Ratio (8/18/2022 3:21:59.650 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	-82.25	-111.07	-138.41	-143.28	-139.52	-143.18	-139.75	-142.14	-144.01
Ch2	-0.00	-82.41	-116.24	-142.11	-143.02	-141.20	-145.05	-144.63	-142.72	-140.56

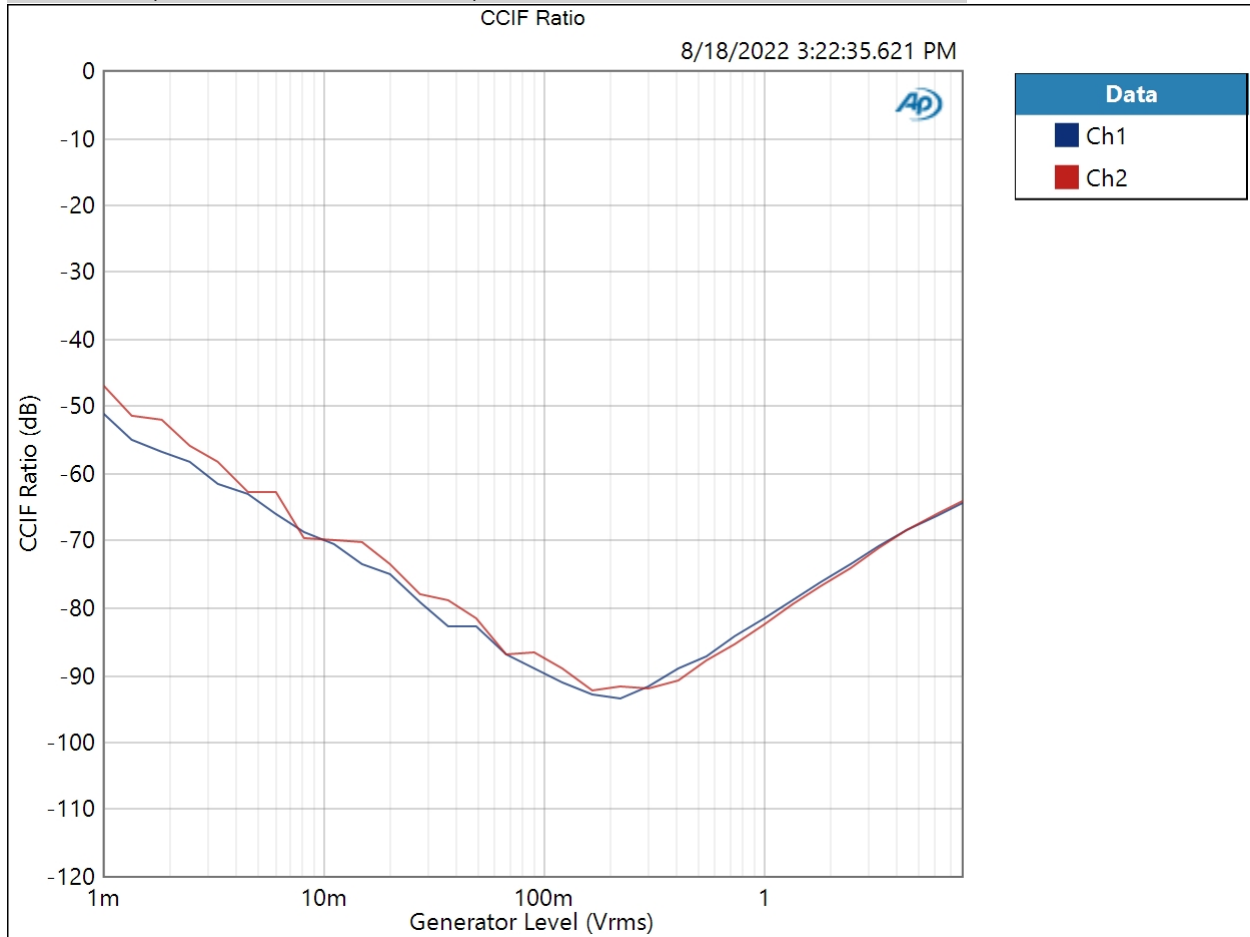
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

300 Ohm Low Gain : 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: 8.000 Vrms
 Step Type: Logarithmic
 Number of Points: 31
 Mode: d2+d3
 Measured 1 8/18/2022 3:22:35 PM

CCIF Ratio (8/18/2022 3:22:35.621 PM)



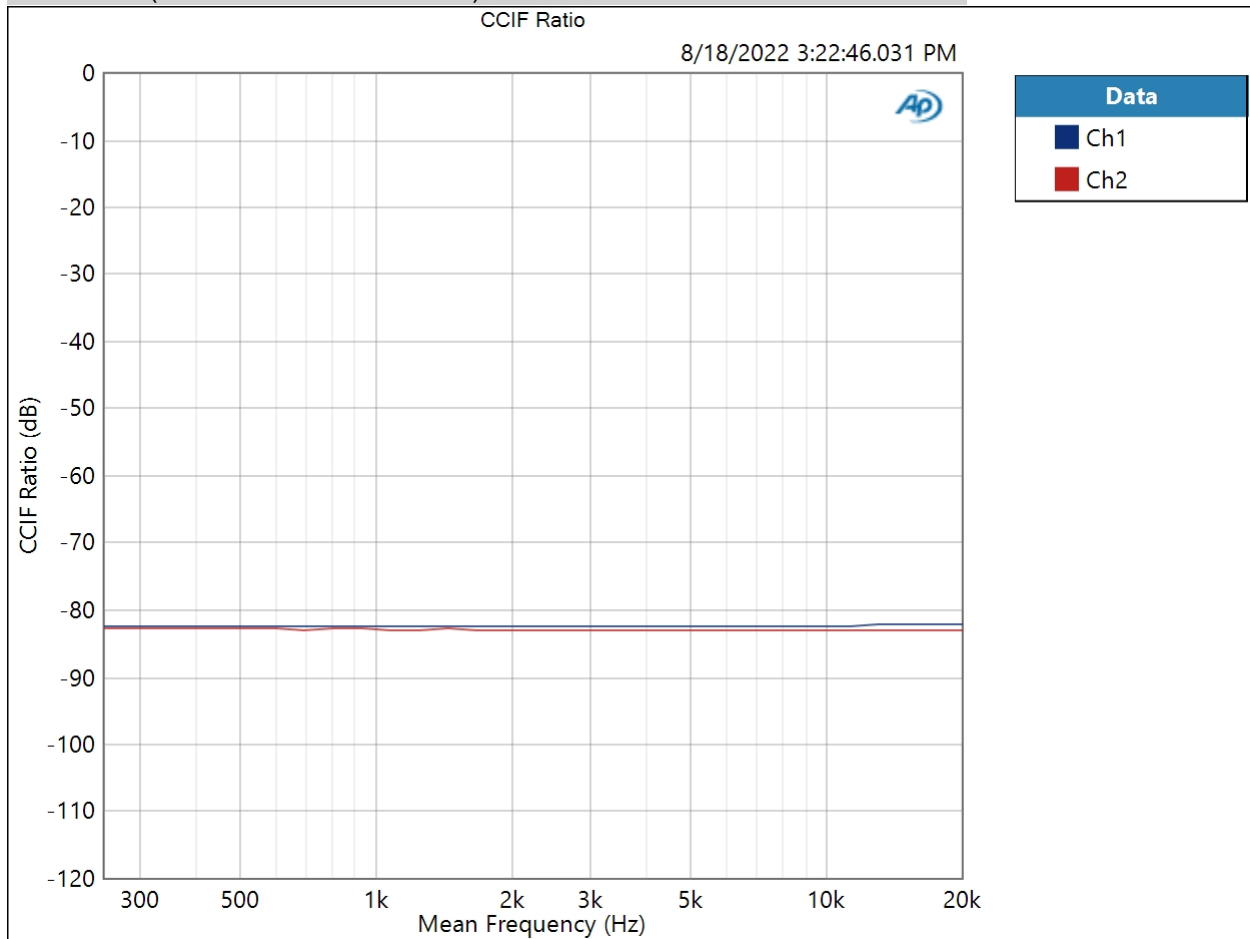
Result: PASSED

8/18/2022 3:31 PM

300 Ohm Low Gain : IMD Frequency Sweep (CCIF)

Generator Level: 0.905 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 8/18/2022 3:22:46 PM

CCIF Ratio (8/18/2022 3:22:46.031 PM)



Result:  PASSED

300 Ohm Low Gain : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.905 Vrms

Frequency: 10.0000 kHz

Crosstalk (8/18/2022 3:22:48.350 PM)

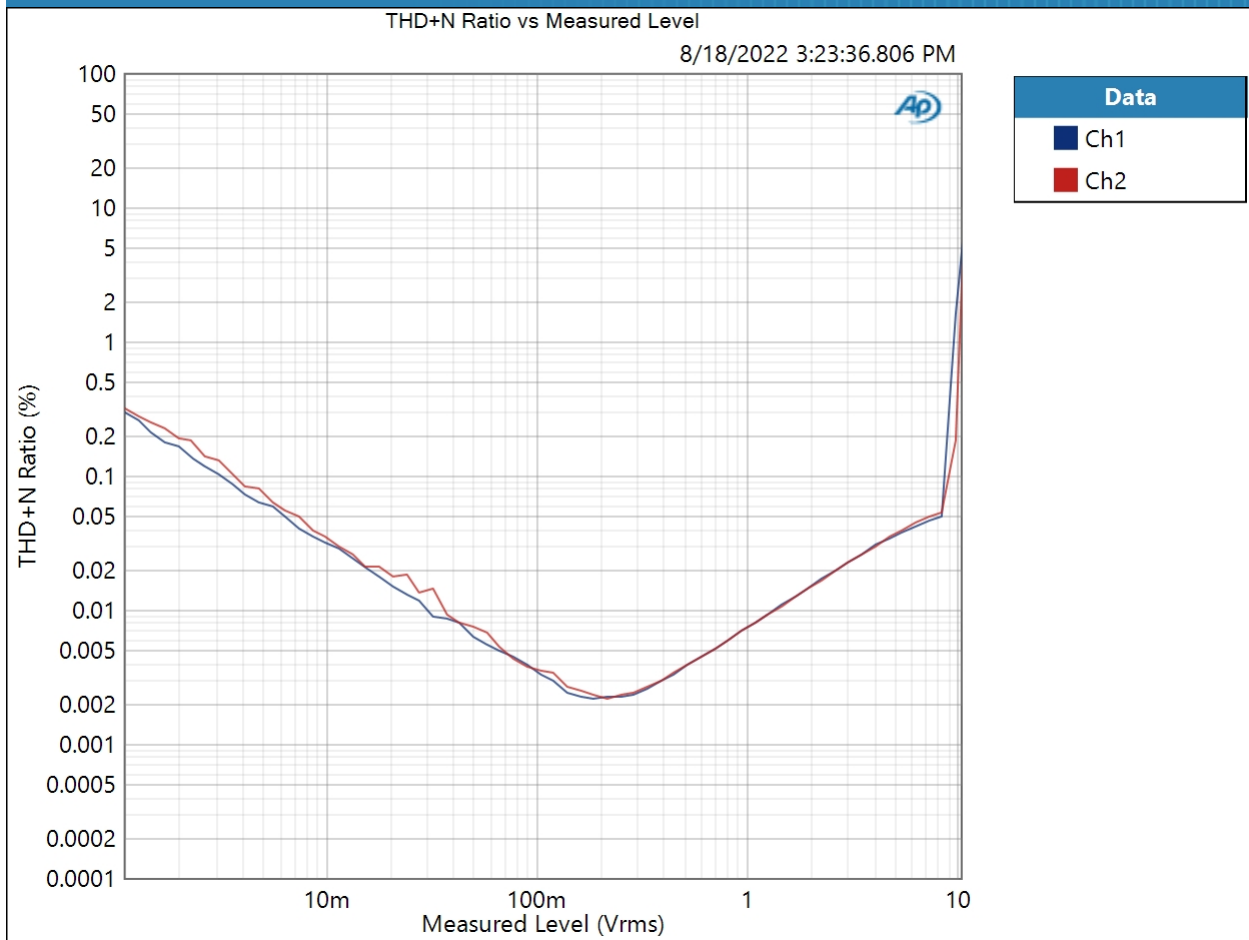
Ch1 -91.383 dB

Ch2 -88.540 dB

300 Ohm Low Gain : 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: 10.00 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 8/18/2022 3:23:36 PM

THD+N Ratio vs Measured Level (8/18/2022 3:23:36.806 PM)



Result: PASSED

300 Ohm High Gain : 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:	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
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.

• Clocks

8/18/2022 3:31 PM

Output Rate: Track Output SR
 Sync Out Level: 3.300 V
 Sync Out Polarity: Normal
 Timebase Reference: Internal
 Jitter: Disabled
 • Triggers
 Source: Off
 Input Logic Level: 3.300 V
 Edge: Rising

300 Ohm High Gain : Level and Gain

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Precision Tune: Disabled
 Generator Level: 195.0 mVrms
 Frequency: 1.00000 kHz
 Low-pass Filter: Signal Path

RMS Level (8/18/2022 3:24:16.512 PM)

Ch1 0.986 Vrms
 Ch2 0.981 Vrms

300 Ohm High Gain : DC Level

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

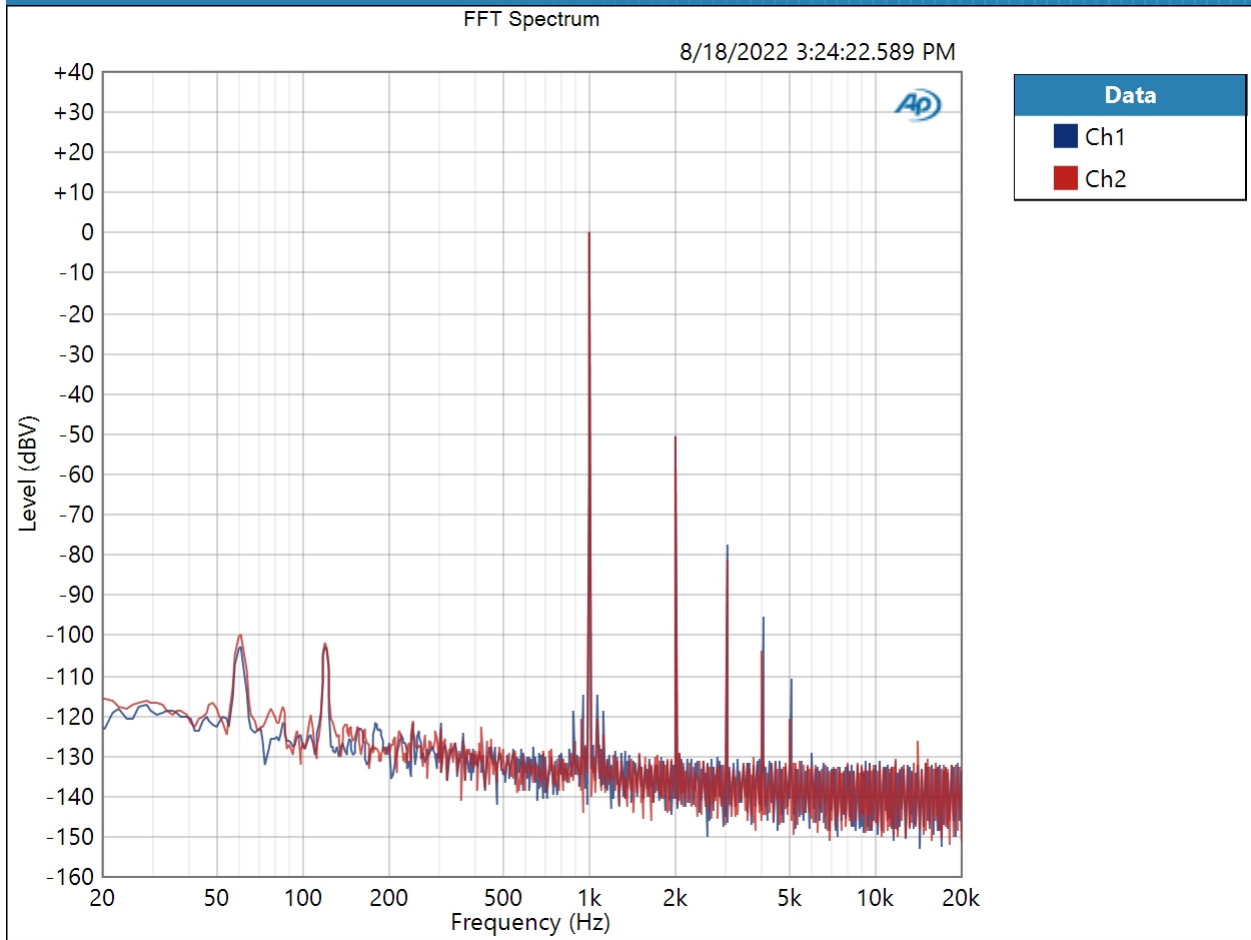
DC Level (8/18/2022 3:24:18.130 PM)

Ch1 411.3 uV
 Ch2 240.8 uV

300 Ohm High Gain : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 195.0 mVrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 8/18/2022 3:24:22 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 (8/18/2022 3:24:22.589 PM)

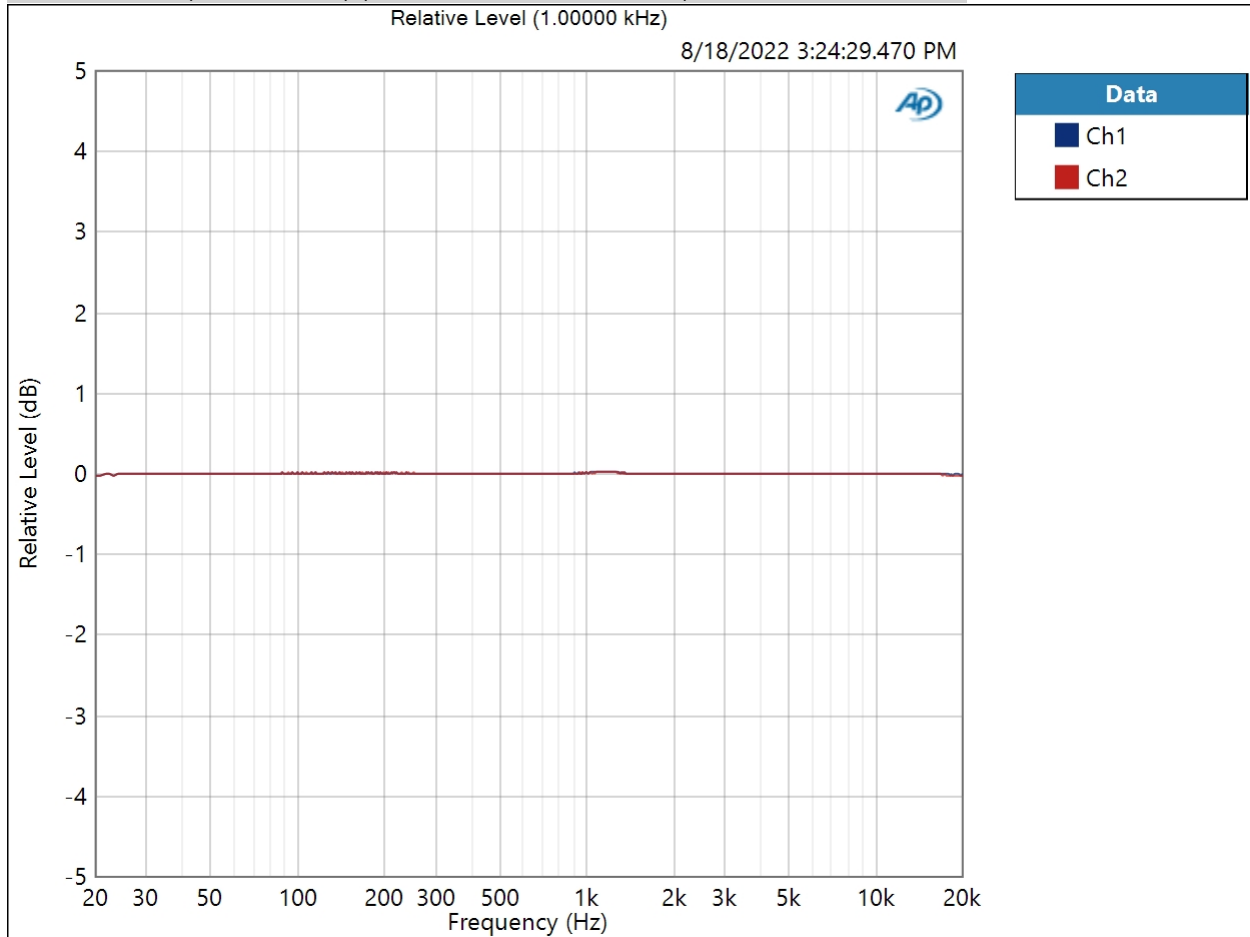


Result:  PASSED

300 Ohm High Gain : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 195.0 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 8/18/2022 3:24:29 PM

Relative Level (1.00000 kHz) (8/18/2022 3:24:29.470 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) (8/18/2022 3:24:29.470 PM)

Ch1 ± 0.020 dB

Ch2 ± 0.022 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High Gain : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 195.0 mVrms

Frequency: 1.00000 kHz

High-pass Filter: Elliptic

High-pass Frequency: 20 Hz

Low-pass Filter: Elliptic

Low-pass Frequency: 20 kHz

Weighting Filter: A-wt.

Signal to Noise Ratio (8/18/2022 3:24:32.415 PM)

Ch1 100.867 dB

Ch2 100.673 dB

300 Ohm High Gain : THD+N

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Precision Tune: Disabled
 Generator Level: 195.0 mVrms
 Frequency: 1.00000 kHz
 High-pass Filter: Elliptic
 High-pass Frequency: 20 Hz
 Low-pass Filter: Elliptic
 Low-pass Frequency: 20 kHz
 Weighting Filter: Signal Path
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (8/18/2022 3:24:35.123 PM)

Ch1 0.298379 %
 Ch2 0.290301 %

THD Ratio (8/18/2022 3:24:35.123 PM)

Ch1 0.295889 %
 Ch2 0.287778 %

Noise Ratio (8/18/2022 3:24:35.123 PM)

Ch1 ---- %
 Ch2 ---- %

Distortion Product Ratio (8/18/2022 3:24:35.123 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	-50.59	-77.42	-95.01	-111.07	-123.25	-130.35	-130.05	-128.49	-131.16
Ch2	-0.00	-50.82	-81.52	-104.13	-118.98	-126.41	-128.12	-130.50	-128.14	-134.03

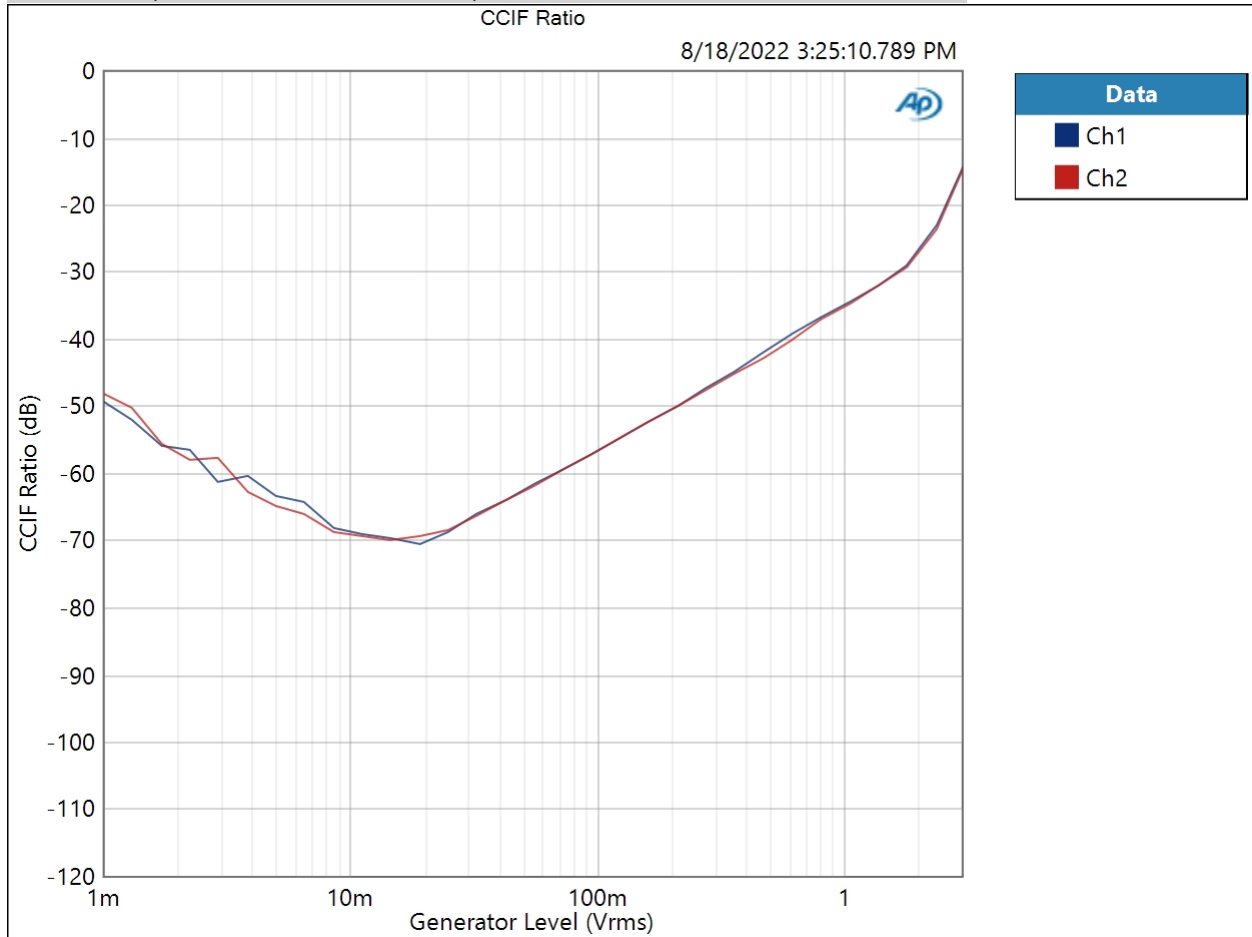
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

300 Ohm High Gain : 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: 3.000 Vrms
 Step Type: Logarithmic
 Number of Points: 31
 Mode: d2+d3
 Measured 1 8/18/2022 3:25:10 PM

CCIF Ratio (8/18/2022 3:25:10.789 PM)



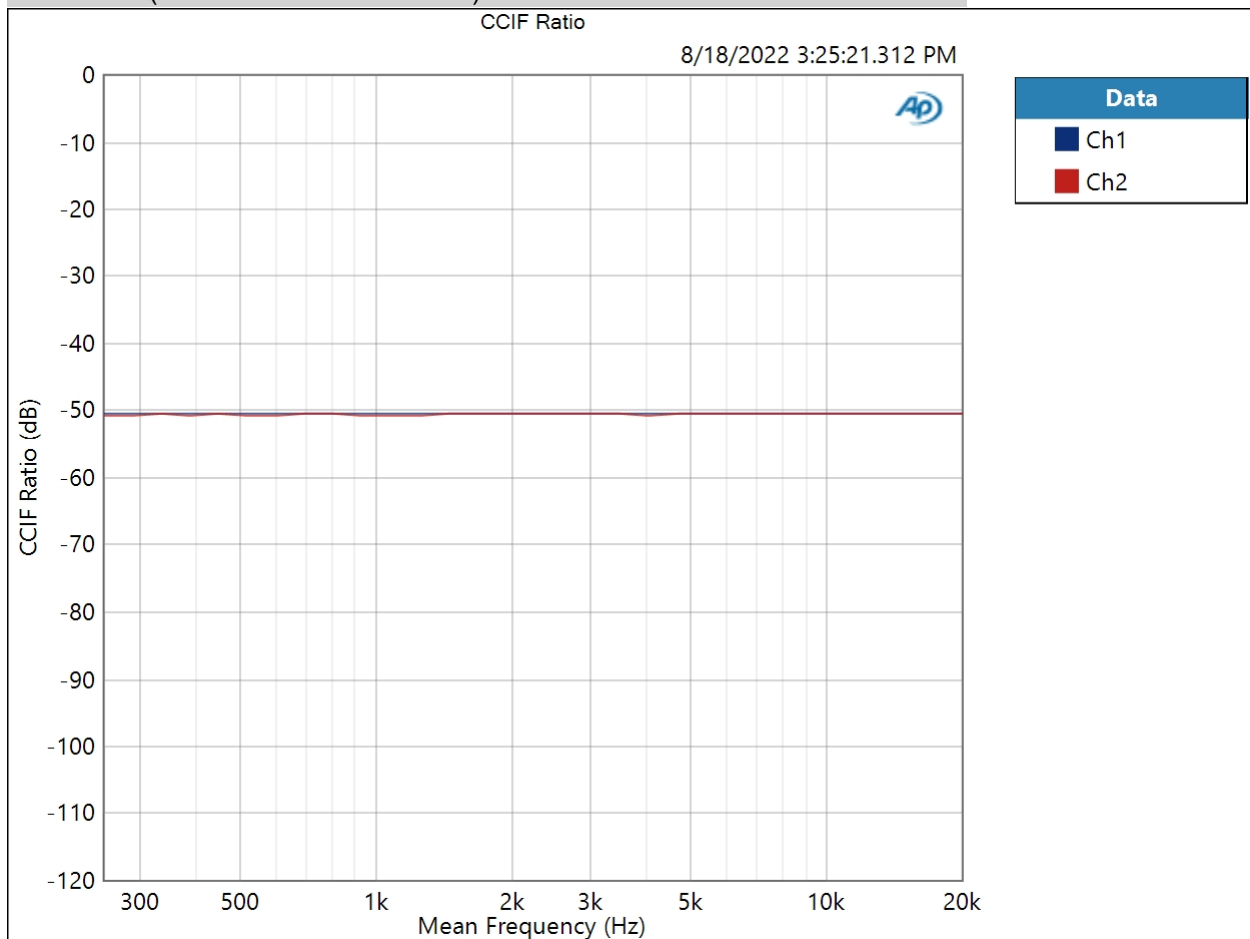
Result: PASSED

8/18/2022 3:31 PM

300 Ohm High Gain : IMD Frequency Sweep (CCIF)

Generator Level: 195.0 mVrms
DC Offset: 0.000 V
Sweep Frequency: Mean Frequency
Diff Frequency: 80.0000 Hz
IMD Split: False
Start Frequency: 20.0000 kHz
Stop Frequency: 250.000 Hz
Step Type: Logarithmic
Number of Points: 31
Mode: d2+d3
Measured 1 8/18/2022 3:25:21 PM

CCIF Ratio (8/18/2022 3:25:21.312 PM)



Result:  PASSED

300 Ohm High Gain : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 210.0 mVrms

Frequency: 10.0000 kHz

Crosstalk (8/18/2022 3:25:23.786 PM)

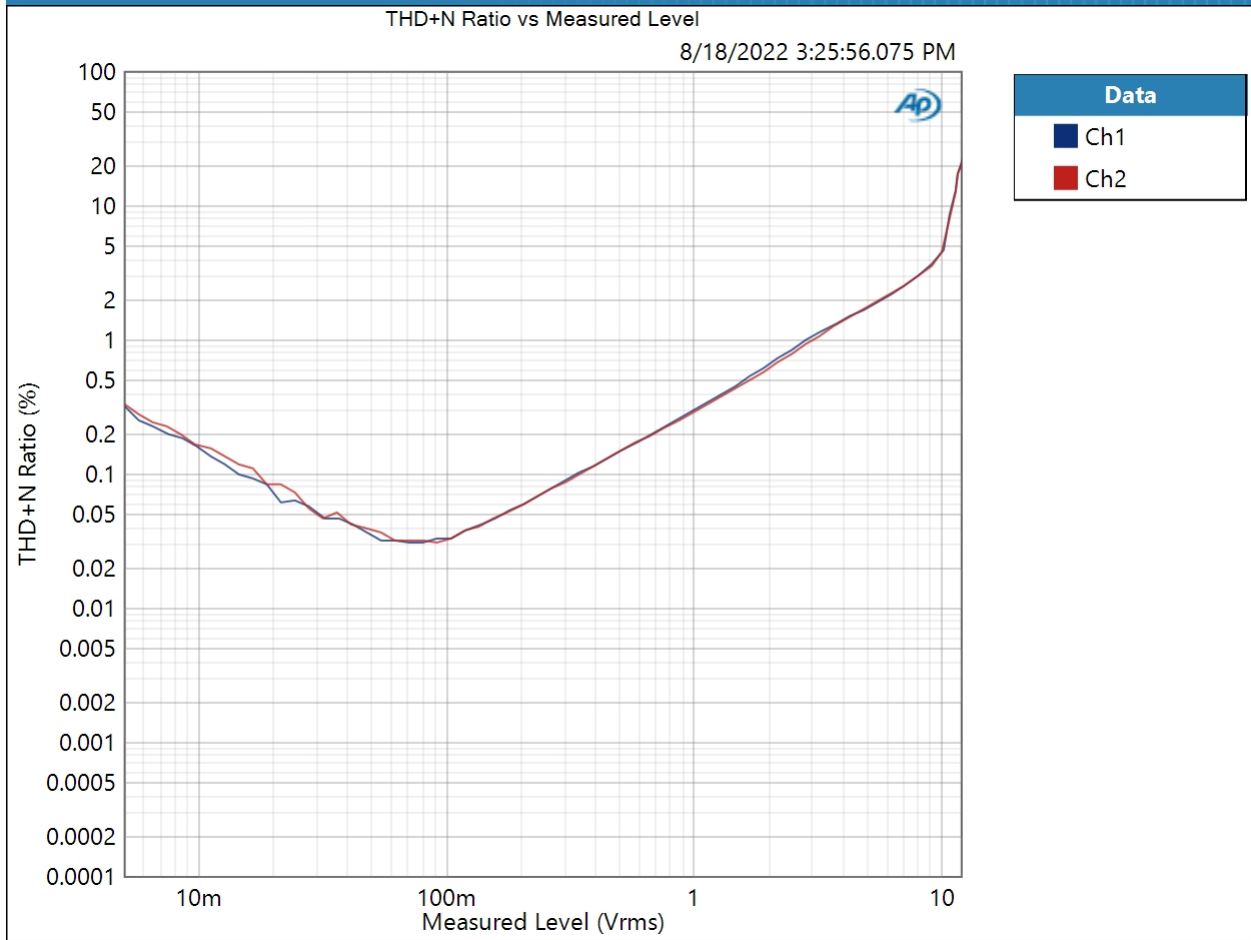
Ch1 -92.744 dB

Ch2 -91.767 dB

300 Ohm High Gain : 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: 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 8/18/2022 3:25:56 PM

THD+N Ratio vs Measured Level (8/18/2022 3:25:56.075 PM)



Result: PASSED

32 Ohm Low Gain : 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
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.

• Clocks

8/18/2022 3:31 PM

Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal
Jitter:	Disabled
• Triggers	
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

32 Ohm Low Gain : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	0.915 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (8/18/2022 3:29:28.768 PM)

Ch1 0.965 Vrms
Ch2 0.960 Vrms

32 Ohm Low Gain : DC Level

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

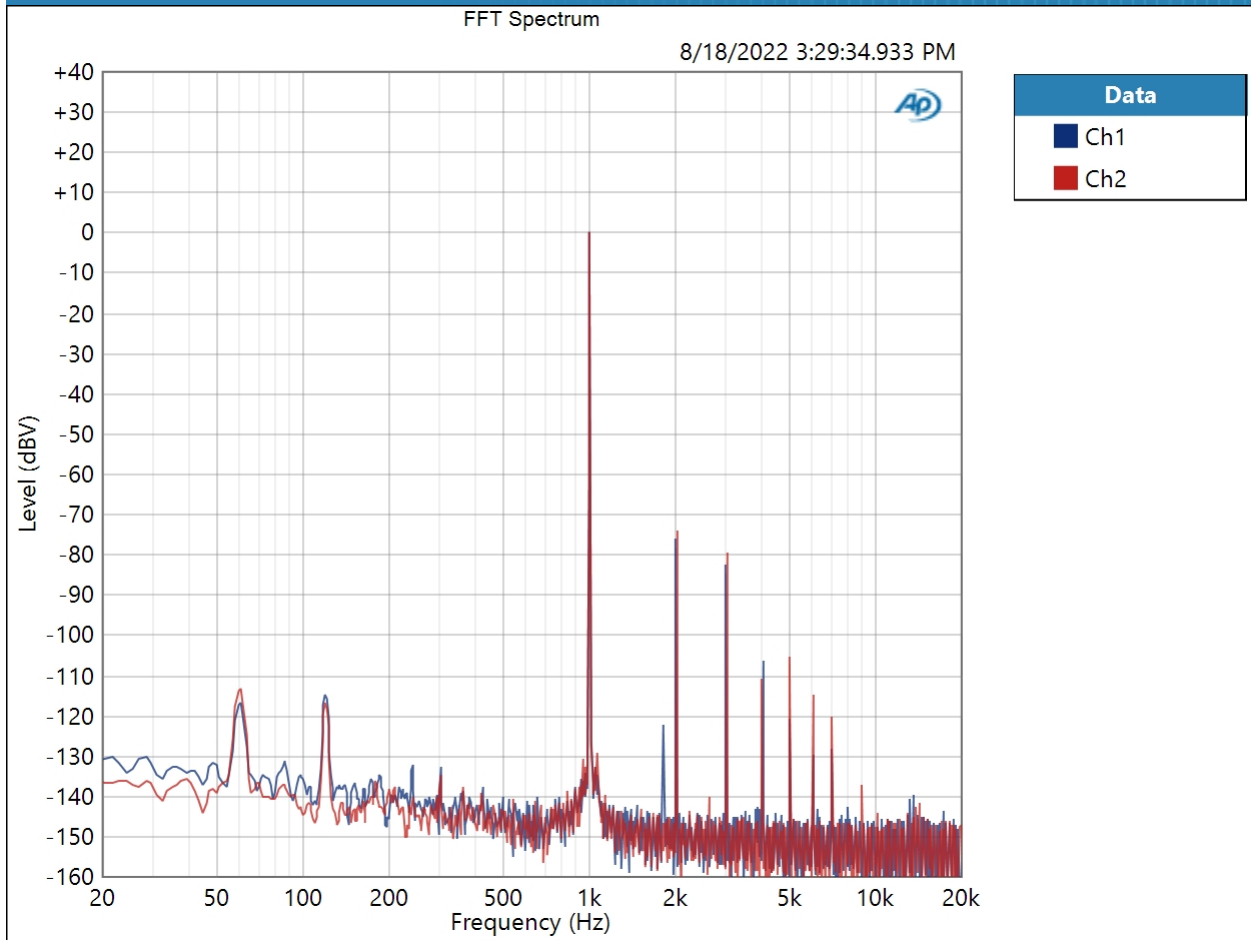
DC Level (8/18/2022 3:29:30.409 PM)

Ch1 -118.0 uV
Ch2 -20.98 uV

32 Ohm Low Gain : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.915 Vrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 8/18/2022 3:29:34 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 (8/18/2022 3:29:34.933 PM)

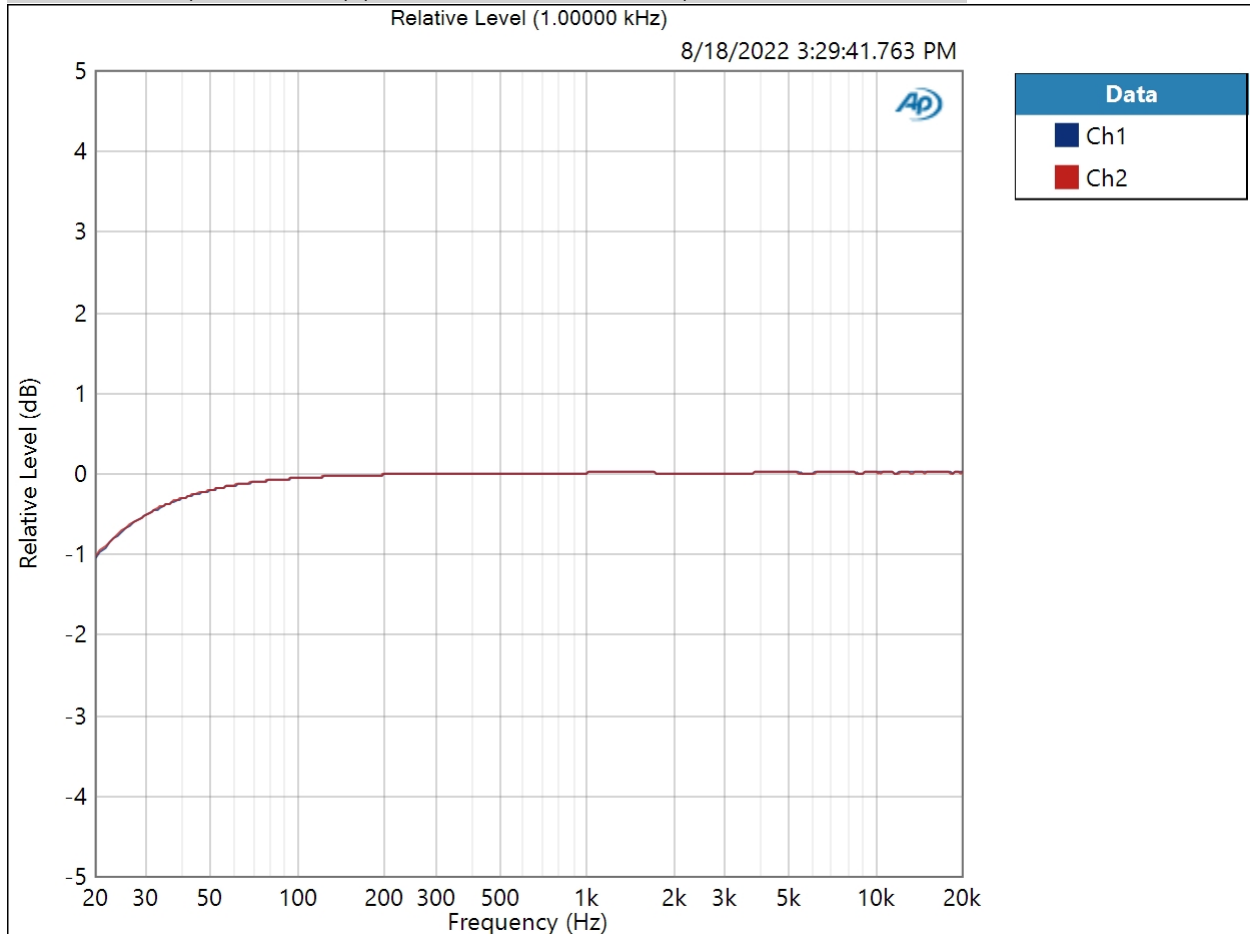


Result: PASSED

32 Ohm Low Gain : Frequency Response

Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: 0.915 Vrms
 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 8/18/2022 3:29:41 PM

Relative Level (1.00000 kHz) (8/18/2022 3:29:41.763 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) (8/18/2022 3:29:41.763 PM)

Ch1 ± 0.525 dB

Ch2 ± 0.512 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm Low Gain : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.915 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 (8/18/2022 3:29:44.652 PM)

Ch1 111.818 dB

Ch2 114.853 dB

32 Ohm Low Gain : THD+N

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Precision Tune: Disabled
 Generator Level: 0.915 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 (8/18/2022 3:29:47.977 PM)

Ch1 0.018256 %
 Ch2 0.023011 %

THD Ratio (8/18/2022 3:29:47.977 PM)

Ch1 0.018212 %
 Ch2 0.022958 %

Noise Ratio (8/18/2022 3:29:47.977 PM)

Ch1 0.000336 %
 Ch2 0.000285 %

Distortion Product Ratio (8/18/2022 3:29:47.977 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	-75.69	-82.12	-106.14	-119.63	-129.08	-127.64	-139.22	-143.89	-144.72
Ch2	-0.00	-73.85	-79.40	-109.27	-106.28	-114.95	-119.83	-142.37	-137.41	-142.15

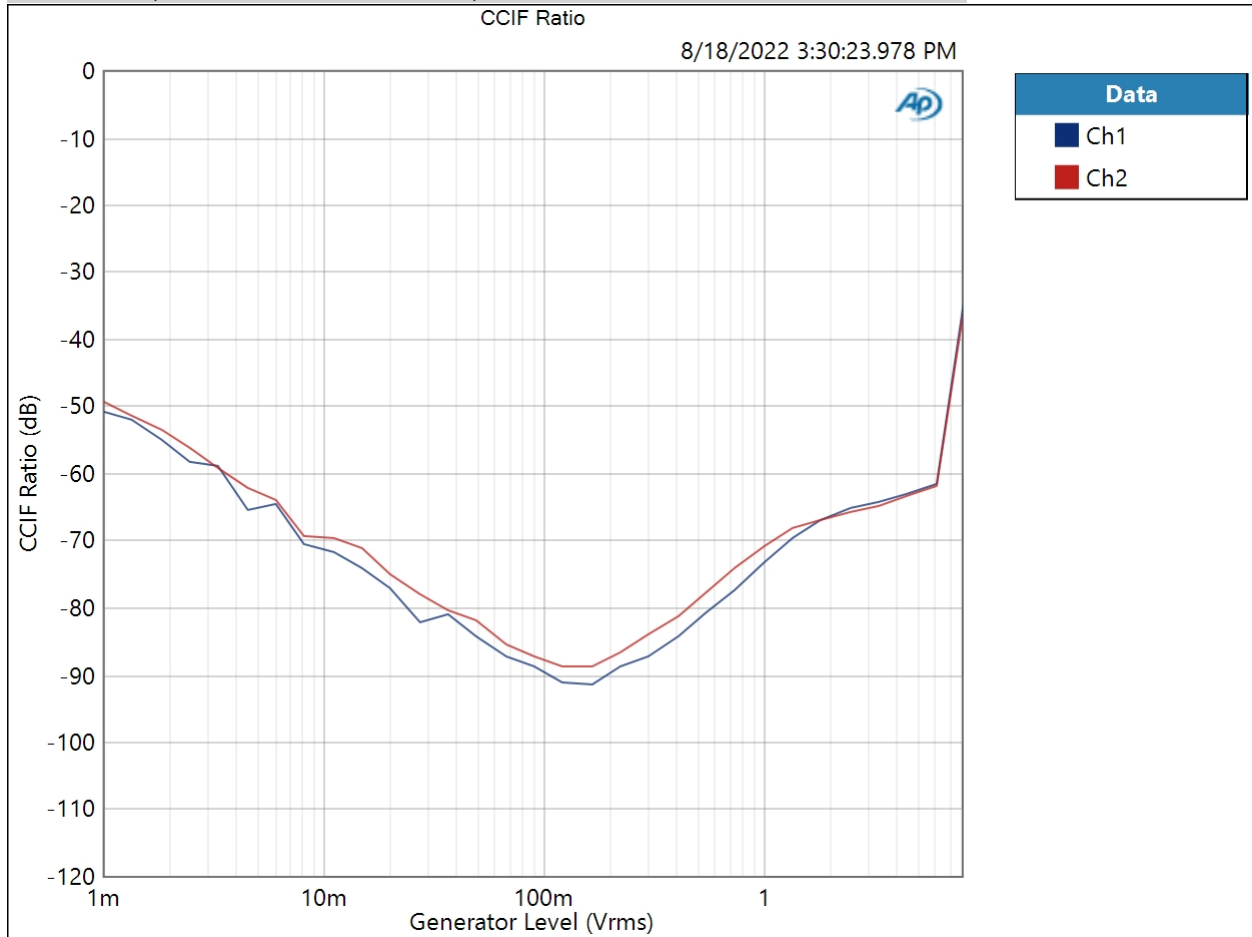
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

32 Ohm Low Gain : 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: 8.000 Vrms
Step Type: Logarithmic
Number of Points: 31
Mode: d2+d3
Measured 1 8/18/2022 3:30:23 PM

CCIF Ratio (8/18/2022 3:30:23.978 PM)



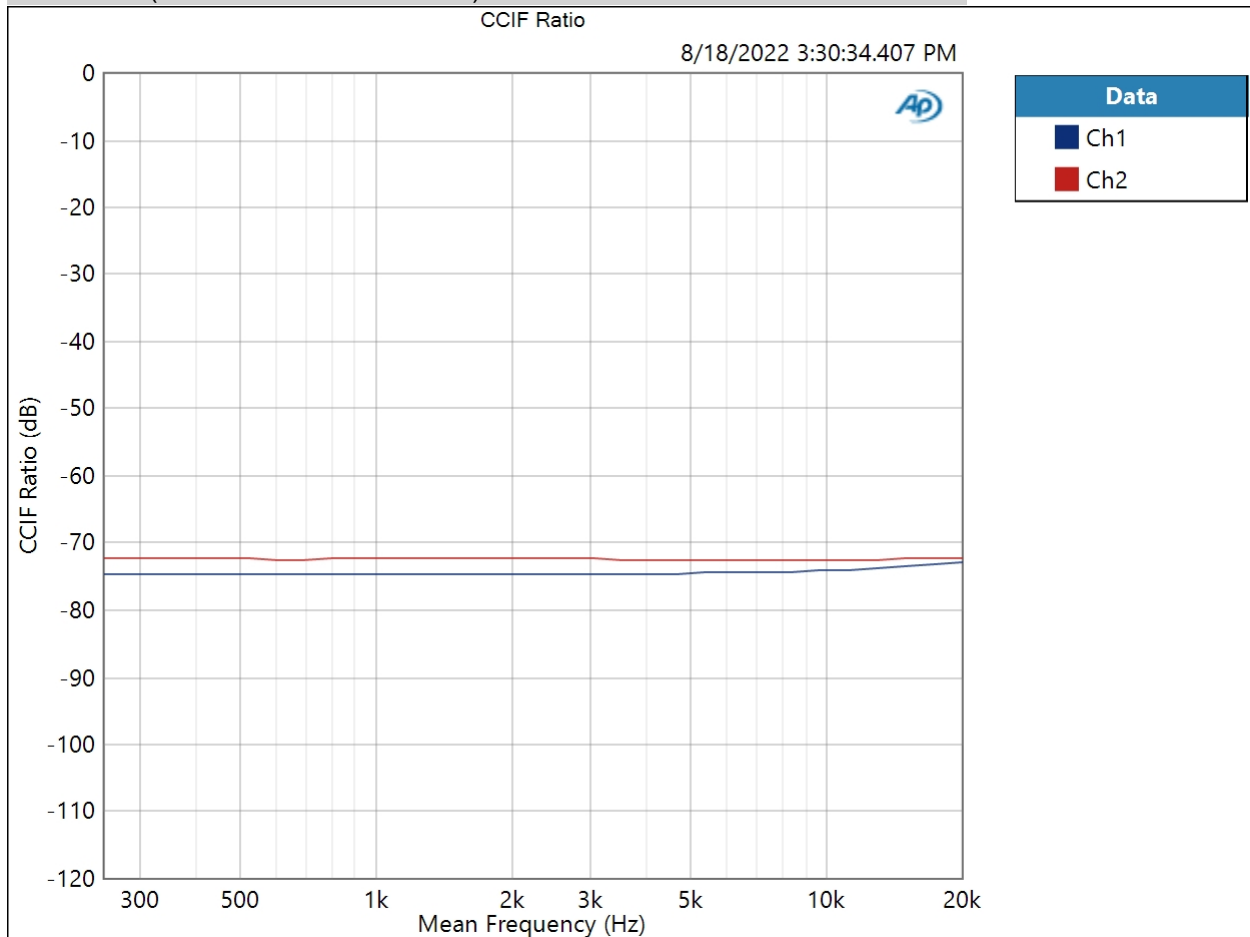
Result: PASSED

8/18/2022 3:31 PM

32 Ohm Low Gain : IMD Frequency Sweep (CCIF)

Generator Level: 0.915 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 8/18/2022 3:30:34 PM

CCIF Ratio (8/18/2022 3:30:34.407 PM)



Result:  PASSED

32 Ohm Low Gain : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.915 Vrms

Frequency: 10.0000 kHz

Crosstalk (8/18/2022 3:30:36.745 PM)

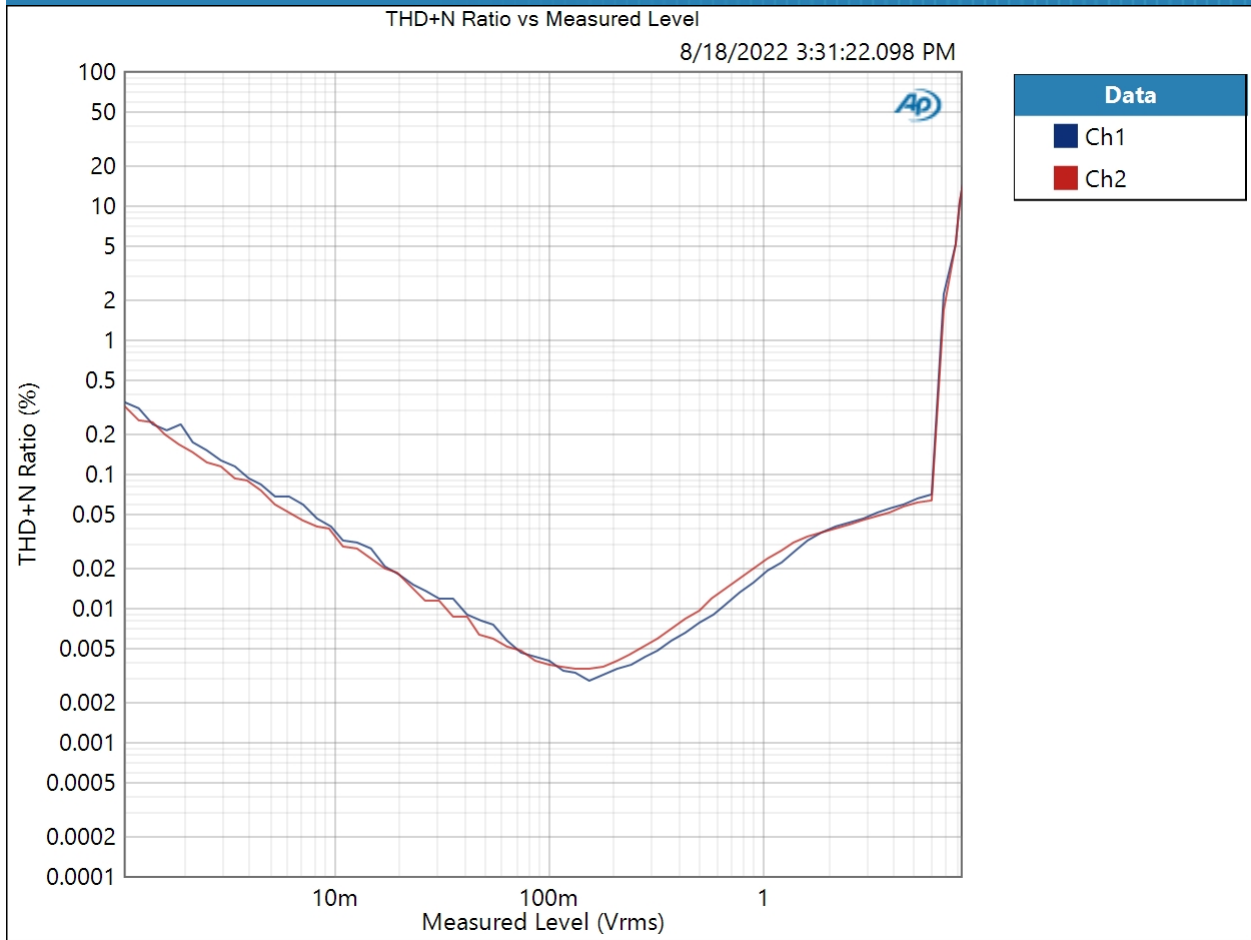
Ch1 74.191 dB

Ch2 73.121 dB

32 Ohm Low Gain : 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: 10.00 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 8/18/2022 3:31:22 PM

THD+N Ratio vs Measured Level (8/18/2022 3:31:22.098 PM)



Result: PASSED

32 Ohm High Gain : 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
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.

• Clocks

8/18/2022 3:31 PM

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 Gain : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	205.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (8/18/2022 3:27:14.498 PM)

Ch1 0.964 Vrms
Ch2 0.957 Vrms

32 Ohm High Gain : DC Level

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

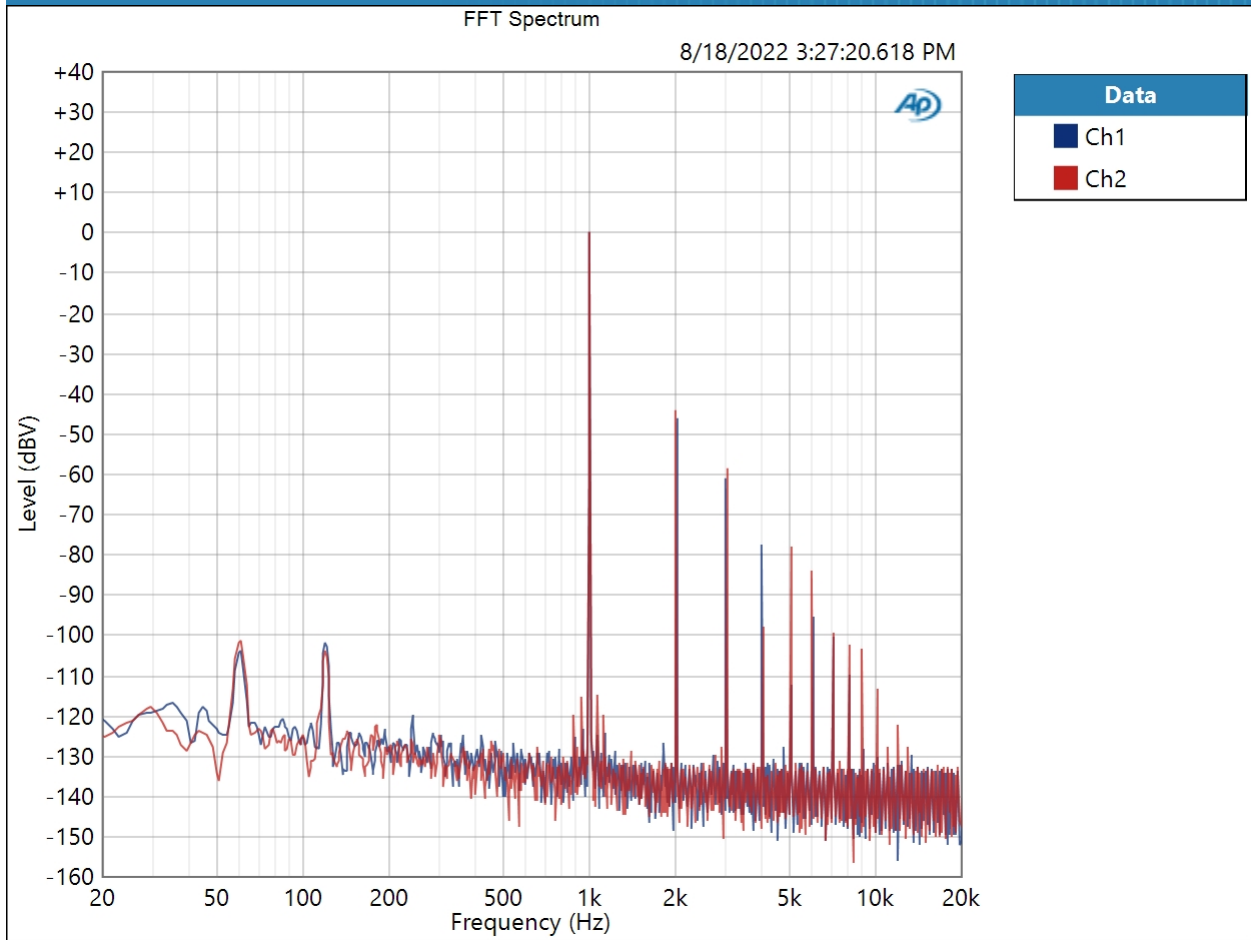
DC Level (8/18/2022 3:27:16.124 PM)

Ch1 -81.57 uV
Ch2 -25.41 uV

32 Ohm High Gain : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 205.0 mVrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1: 8/18/2022 3:27:20 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 (8/18/2022 3:27:20.618 PM)

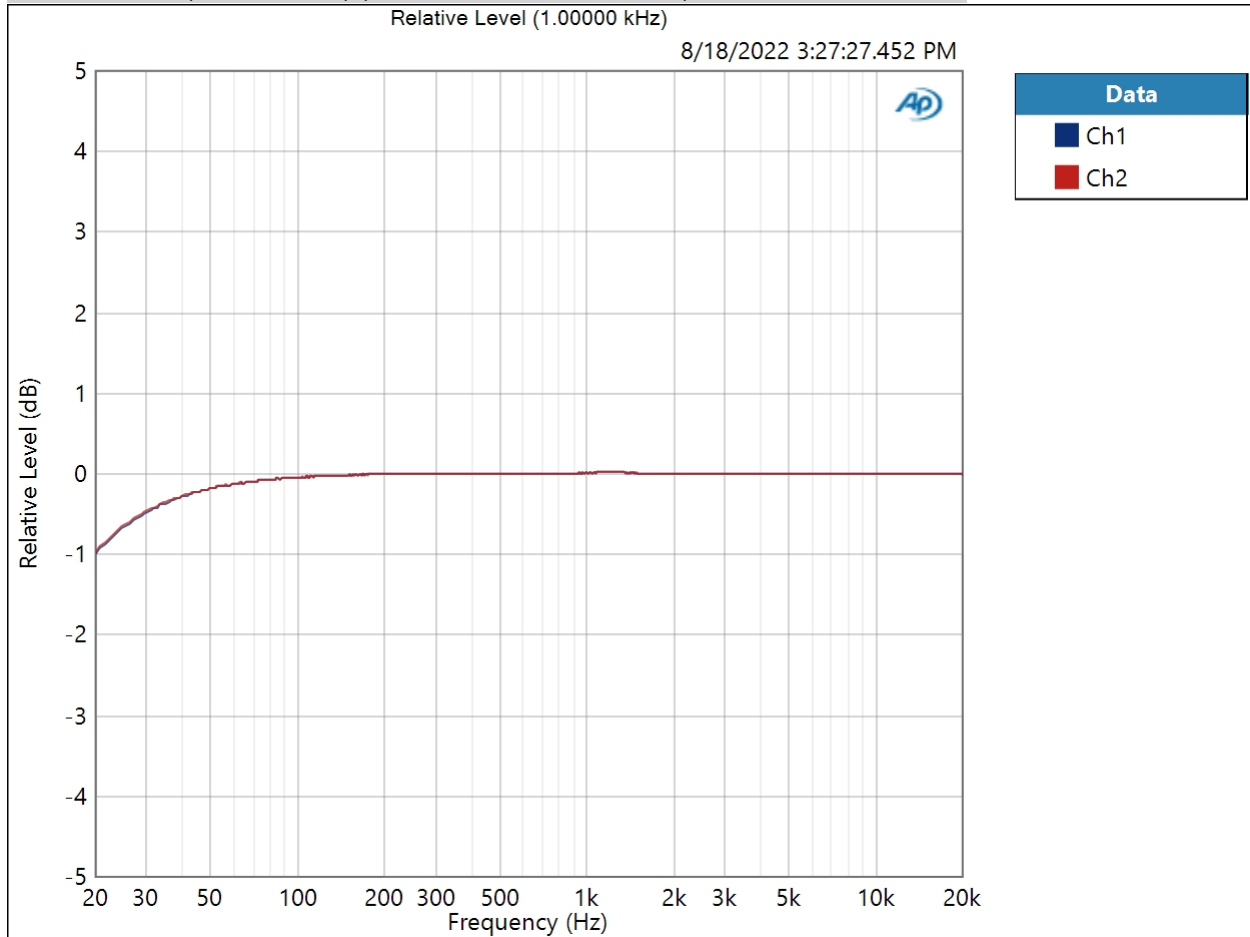


Result: PASSED

32 Ohm High Gain : Frequency Response

Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: 205.0 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 8/18/2022 3:27:27 PM

Relative Level (1.00000 kHz) (8/18/2022 3:27:27.452 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) (8/18/2022 3:27:27.452 PM)

Ch1 ± 0.502 dB

Ch2 ± 0.488 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm High Gain : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 205.0 mVrms

Frequency: 1.00000 kHz

High-pass Filter: Elliptic

High-pass Frequency: 20 Hz

Low-pass Filter: Elliptic

Low-pass Frequency: 20 kHz

Weighting Filter: A-wt.

Signal to Noise Ratio (8/18/2022 3:27:30.646 PM)

Ch1 100.789 dB

Ch2 101.116 dB

32 Ohm High Gain : THD+N

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Precision Tune: Disabled
 Generator Level: 205.0 mVrms
 Frequency: 1.00000 kHz
 High-pass Filter: Elliptic
 High-pass Frequency: 20 Hz
 Low-pass Filter: Elliptic
 Low-pass Frequency: 20 kHz
 Weighting Filter: Signal Path
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (8/18/2022 3:27:33.857 PM)

Ch1 0.523902 %
 Ch2 0.646750 %

THD Ratio (8/18/2022 3:27:33.857 PM)

Ch1 0.520330 %
 Ch2 0.643178 %

Noise Ratio (8/18/2022 3:27:33.857 PM)

Ch1 ---- %
 Ch2 ---- %

Distortion Product Ratio (8/18/2022 3:27:33.857 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	-45.81	-60.92	-76.95	-107.83	-95.52	-100.04	-108.57	-126.88	-127.56
Ch2	-0.00	-43.99	-58.53	-90.77	-78.58	-83.58	-97.11	-104.19	-103.28	-111.50

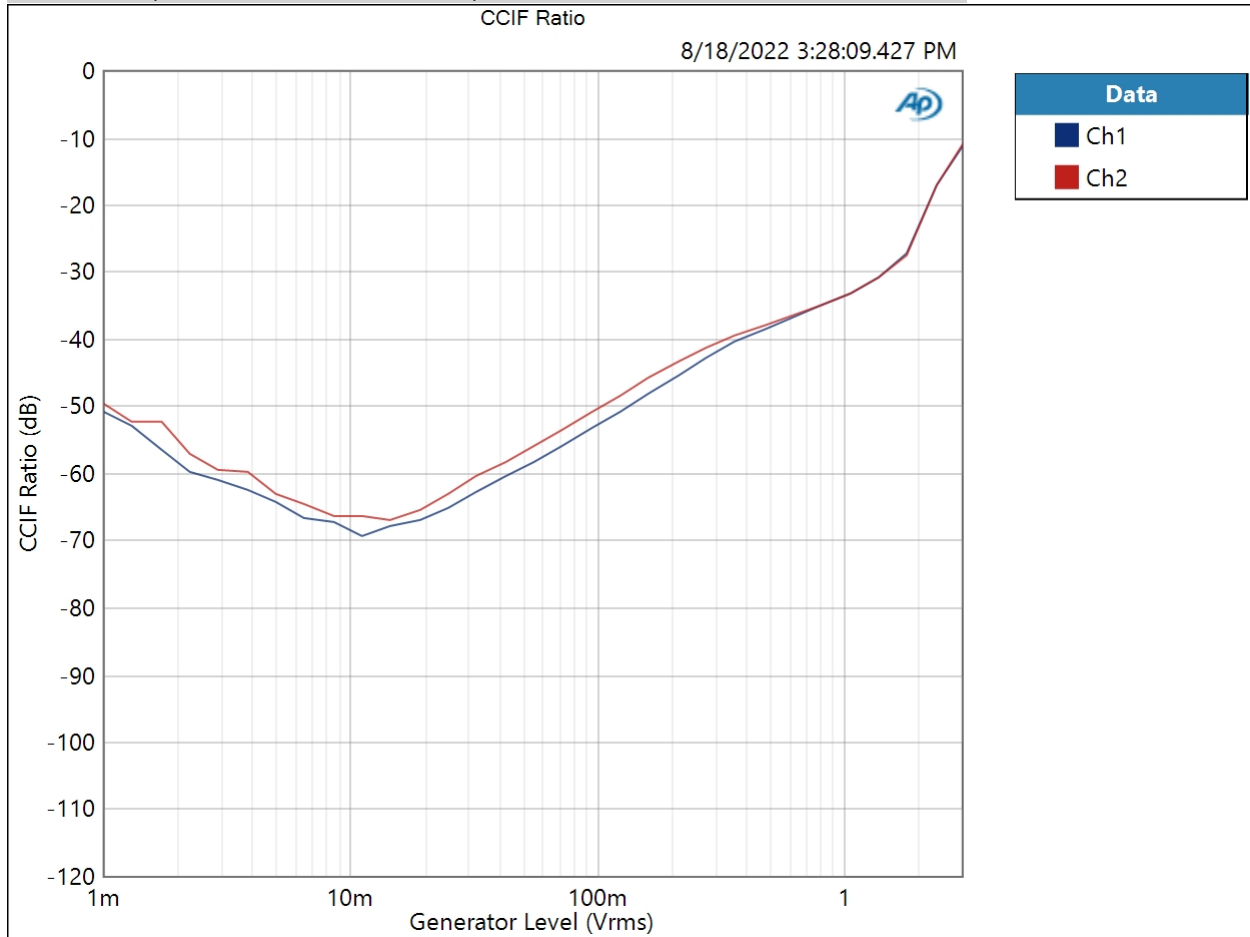
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

32 Ohm High Gain : 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: 3.000 Vrms
 Step Type: Logarithmic
 Number of Points: 31
 Mode: d2+d3
 Measured 1 8/18/2022 3:28:09 PM

CCIF Ratio (8/18/2022 3:28:09.427 PM)



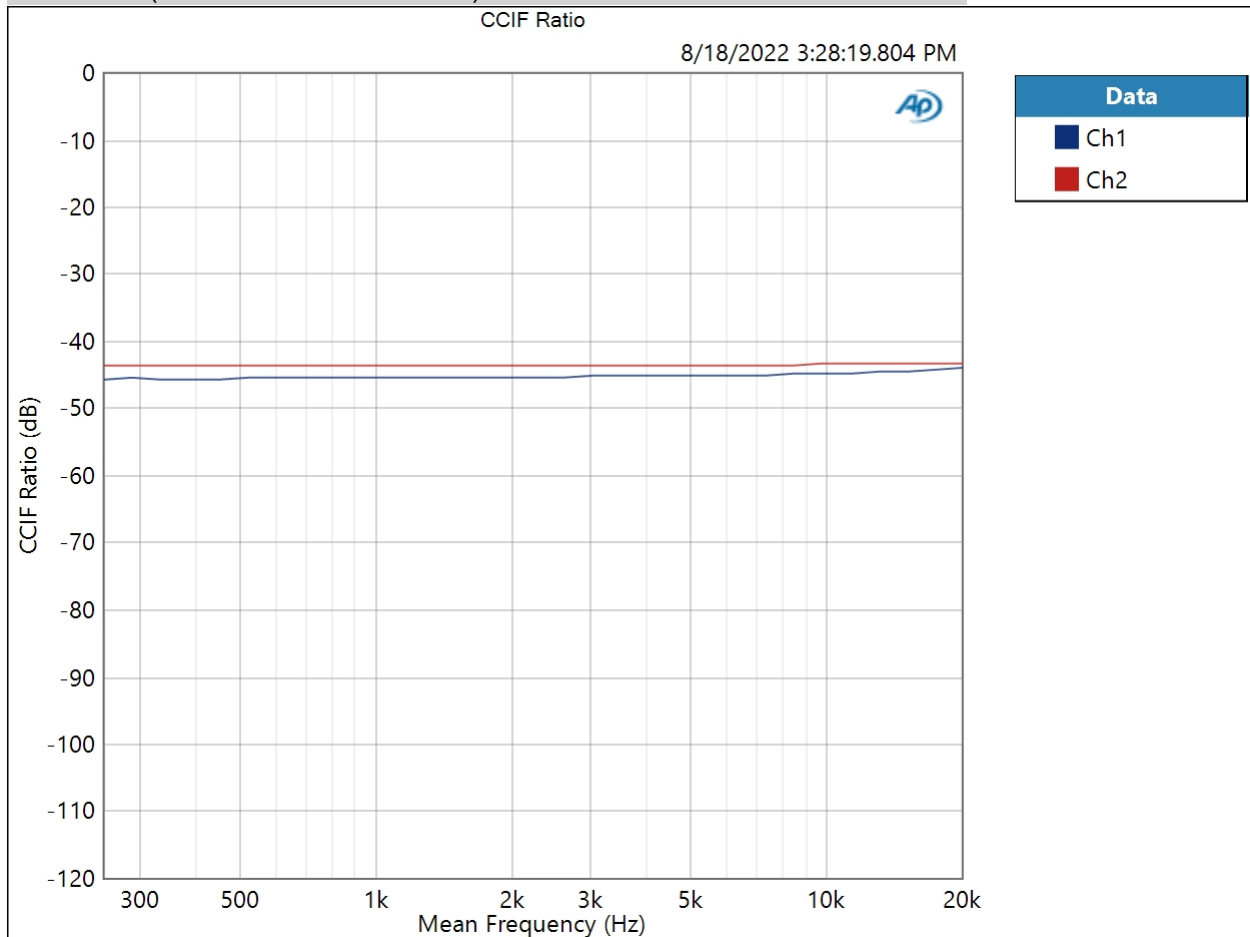
Result: PASSED

8/18/2022 3:31 PM

32 Ohm High Gain : IMD Frequency Sweep (CCIF)

Generator Level: 205.0 mVrms
 DC Offset: 0.000 V
 Sweep Frequency: Mean Frequency
 Diff Frequency: 80.0000 Hz
 IMD Split: False
 Start Frequency: 20.0000 kHz
 Stop Frequency: 250.000 Hz
 Step Type: Logarithmic
 Number of Points: 31
 Mode: d2+d3
 Measured 1 8/18/2022 3:28:19 PM

CCIF Ratio (8/18/2022 3:28:19.804 PM)



Result:  PASSED

32 Ohm High Gain : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 205.0 mVrms

Frequency: 10.0000 kHz

Crosstalk (8/18/2022 3:28:22.123 PM)

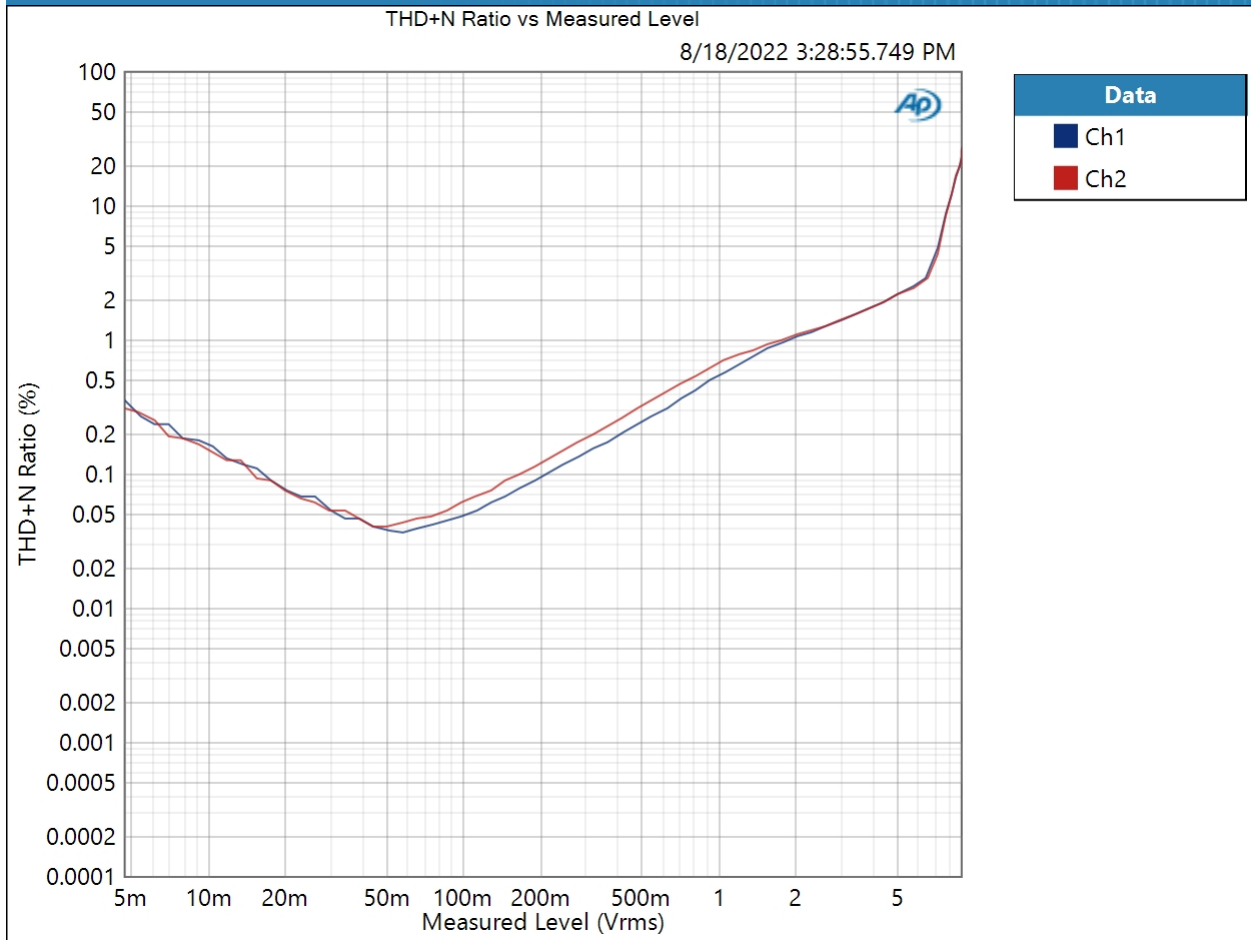
Ch1 74.501 dB

Ch2 73.358 dB

32 Ohm High Gain : 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: 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 8/18/2022 3:28:55 PM

THD+N Ratio vs Measured Level (8/18/2022 3:28:55.749 PM)



Result: PASSED

Preamp : 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
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.

• Clocks

8/18/2022 3:31 PM

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 : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	0.905 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (8/18/2022 3:18:22.601 PM)

Ch1 0.998 Vrms
Ch2 0.999 Vrms

Preamp : DC Level

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

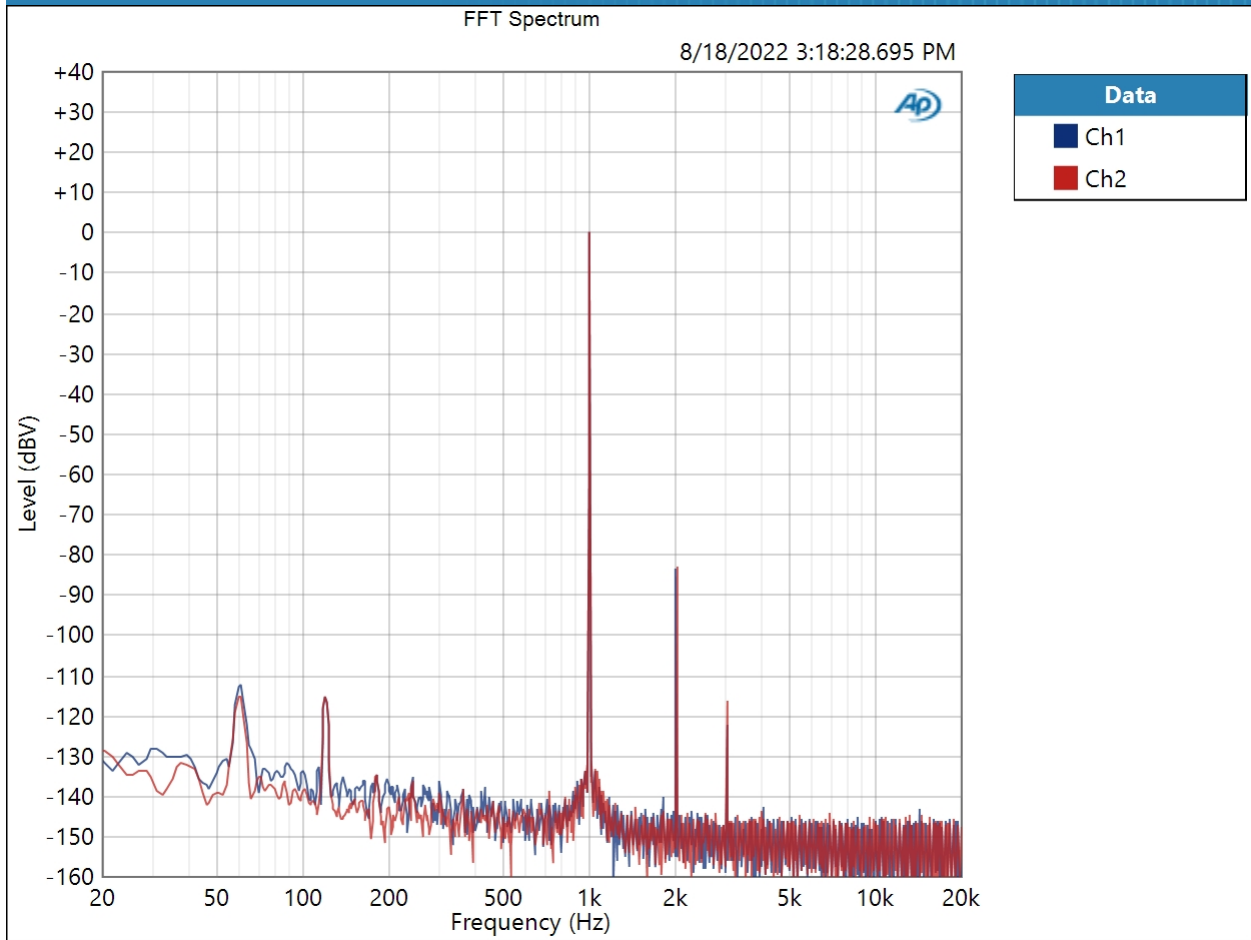
DC Level (8/18/2022 3:18:24.237 PM)

Ch1 5.174 mV
Ch2 4.479 mV

Preamp : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.905 Vrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 8/18/2022 3:18:28 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 (8/18/2022 3:18:28.695 PM)

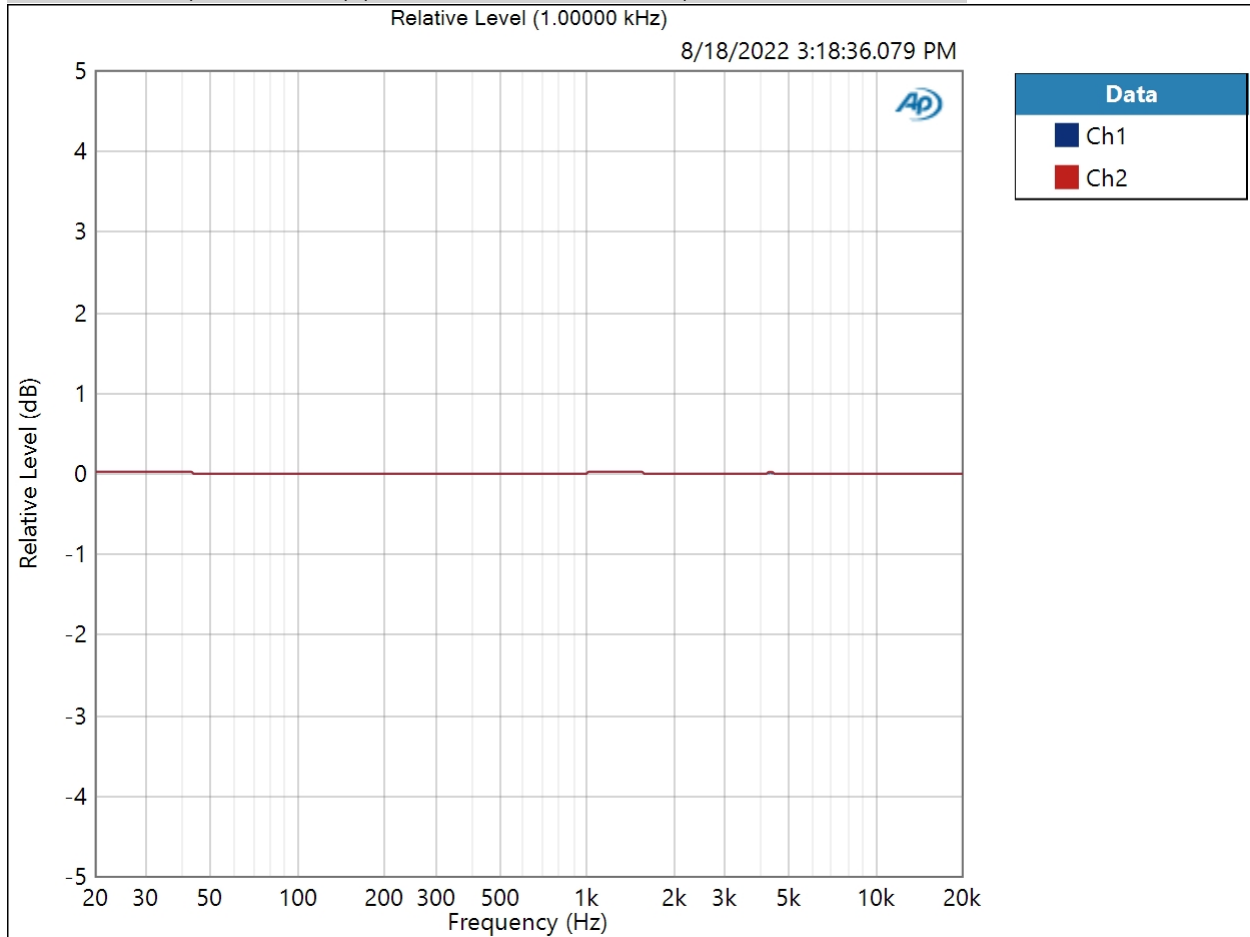


Result: PASSED

Preamp : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 0.905 Vrms
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 8/18/2022 3:18:36 PM

Relative Level (1.00000 kHz) (8/18/2022 3:18:36.079 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) (8/18/2022 3:18:36.079 PM)

Ch1 ± 0.012 dB

Ch2 ± 0.011 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Preamp : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.905 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 (8/18/2022 3:18:39.011 PM)

Ch1 114.546 dB

Ch2 115.049 dB

Preamp : THD+N

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Precision Tune: Disabled
 Generator Level: 0.905 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 (8/18/2022 3:18:42.346 PM)

Ch1 0.048011 %
 Ch2 0.046851 %

THD Ratio (8/18/2022 3:18:42.346 PM)

Ch1 0.006815 %
 Ch2 0.006898 %

Noise Ratio (8/18/2022 3:18:42.346 PM)

Ch1 0.000387 %
 Ch2 0.000317 %

Distortion Product Ratio (8/18/2022 3:18:42.346 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	-83.33	-121.27	-141.58	-143.21	-145.22	-144.11	-140.65	-141.04	-147.16
Ch2	-0.00	-83.23	-116.23	-145.61	-141.34	-142.07	-146.35	-143.57	-140.89	-139.89

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

Preamp : 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: 8.000 Vrms

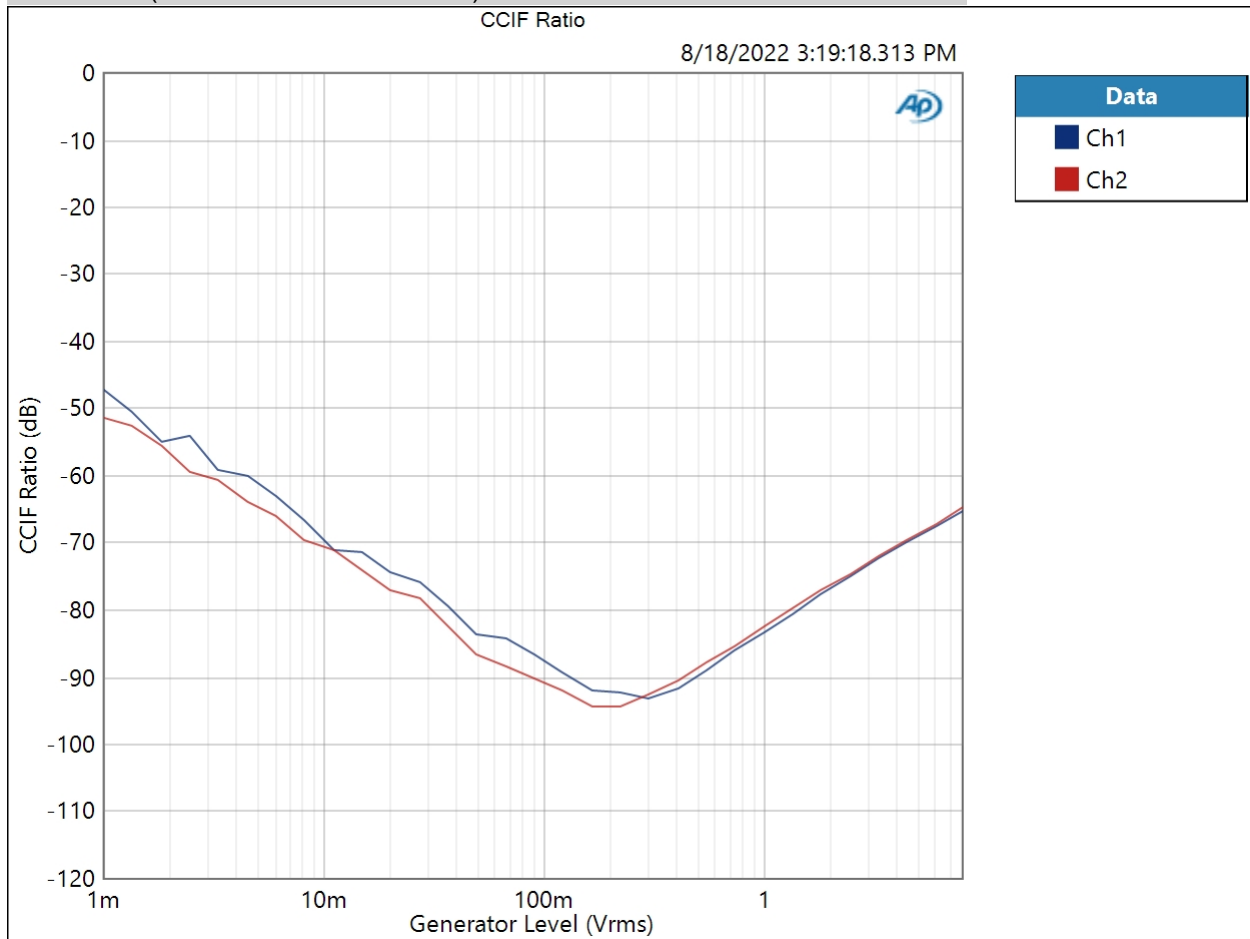
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 8/18/2022 3:19:18 PM

CCIF Ratio (8/18/2022 3:19:18.313 PM)



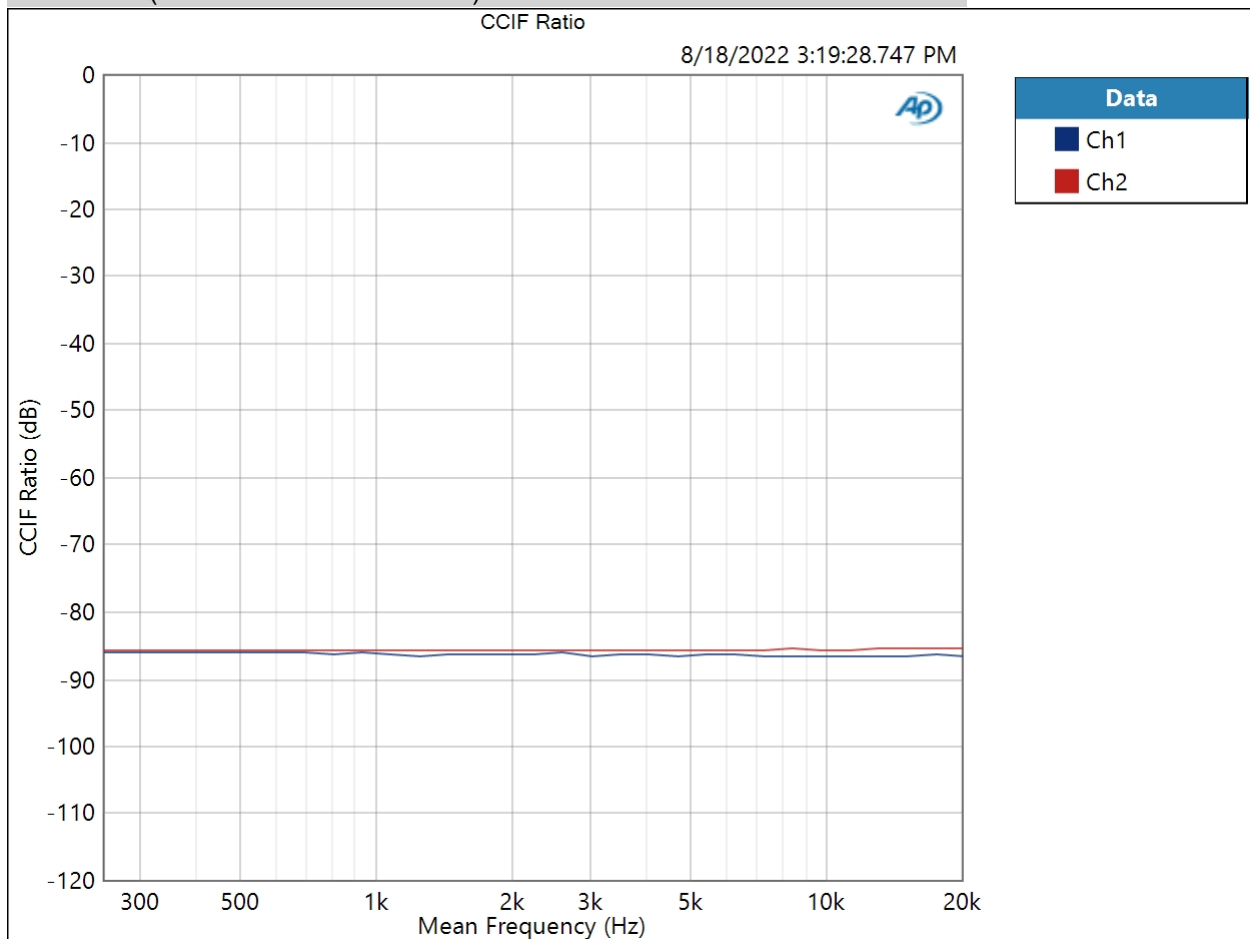
Result: PASSED

8/18/2022 3:31 PM

Preamp : IMD Frequency Sweep (CCIF)

Generator Level: 700.0 mVrms
DC Offset: 0.000 V
Sweep Frequency: Mean Frequency
Diff Frequency: 80.0000 Hz
IMD Split: False
Start Frequency: 20.0000 kHz
Stop Frequency: 250.000 Hz
Step Type: Logarithmic
Number of Points: 31
Mode: d2+d3
Measured 1 8/18/2022 3:19:28 PM

CCIF Ratio (8/18/2022 3:19:28.747 PM)



Result:  PASSED

Preamp : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.905 Vrms

Frequency: 10.0000 kHz

Crosstalk (8/18/2022 3:19:32.852 PM)

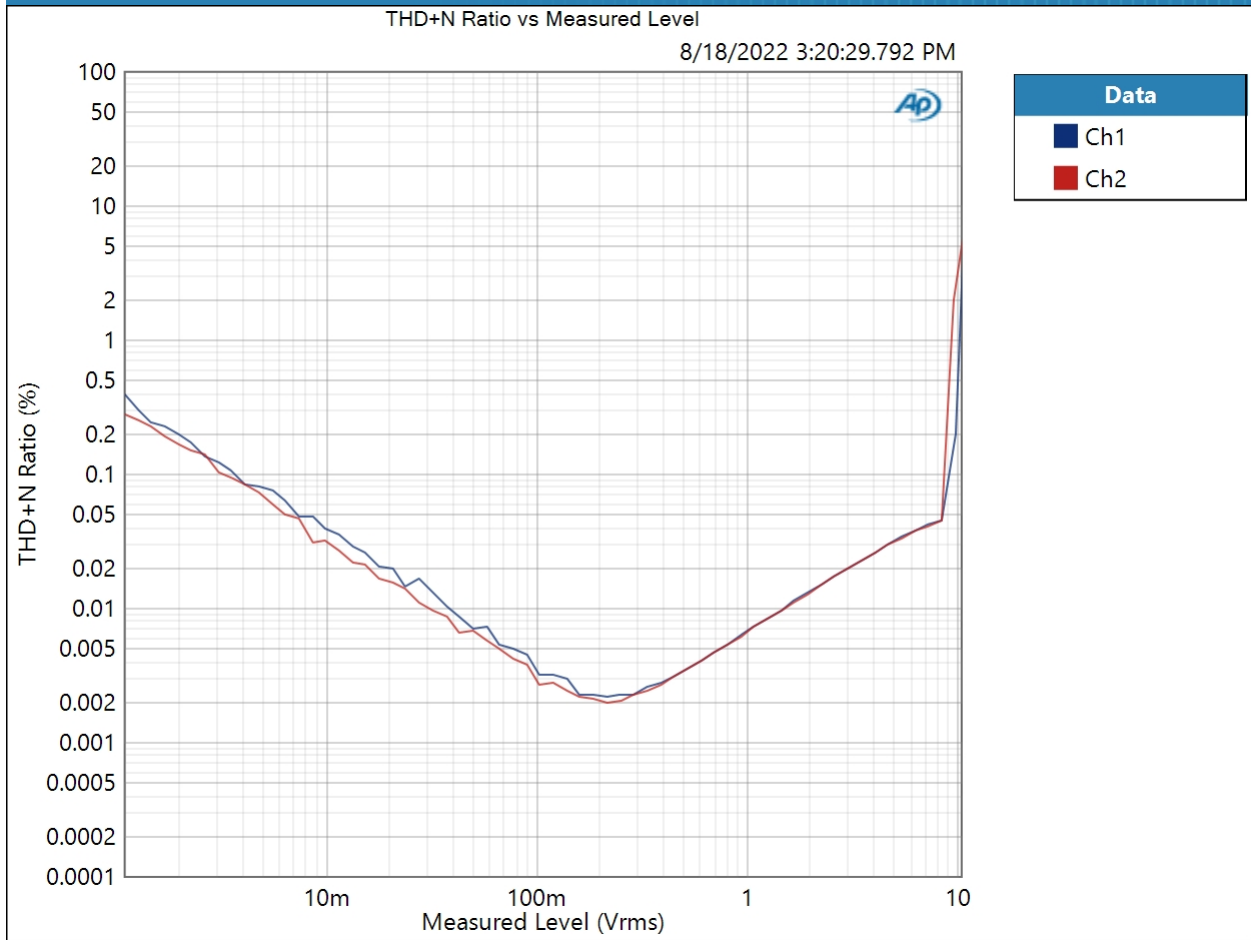
Ch1 111.215 dB

Ch2 98.112 dB

Preamp : 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: 10.00 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 8/18/2022 3:20:29 PM

THD+N Ratio vs Measured Level (8/18/2022 3:20:29.792 PM)



Result: PASSED