

APx555 Measurements: Modi 5



Notes:

This is a test of a representative production line sample. If you have difficulties reproducing these results, check your analyzer set-up and ancillary equipment carefully. ensure your analyzer has had a recent calibration, and contact the analyzer manufacturer for help if necessary. If you still have significantly different results, please contact info@schitt.com with a copy of your results so we can bring back your product and check it against our standard.

Summary

USB

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
Bandpass Level Sweep	✓ PASSED

Optical

Jitter Level Sweep	✓ PASSED
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Sequence Result:

Sequence Result: ✓ PASSED

APx Instrument

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

USB : Signal Path Setup

Output Connector:	ASIO
Asio Device:	ASIO4ALL v2
Scaling Mode:	Digital
Output Sample Rate:	44.1000 kHz
Output Latency:	Auto
Buffer Size:	512
Clock Source:	Big Ben
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:	-20.000 dBFS
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

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

USB : Level and Gain

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

RMS Level (11/13/2025 10:08:25.929 AM)

Ch1 1.924 Vrms
Ch2 1.926 Vrms

USB : DC Level

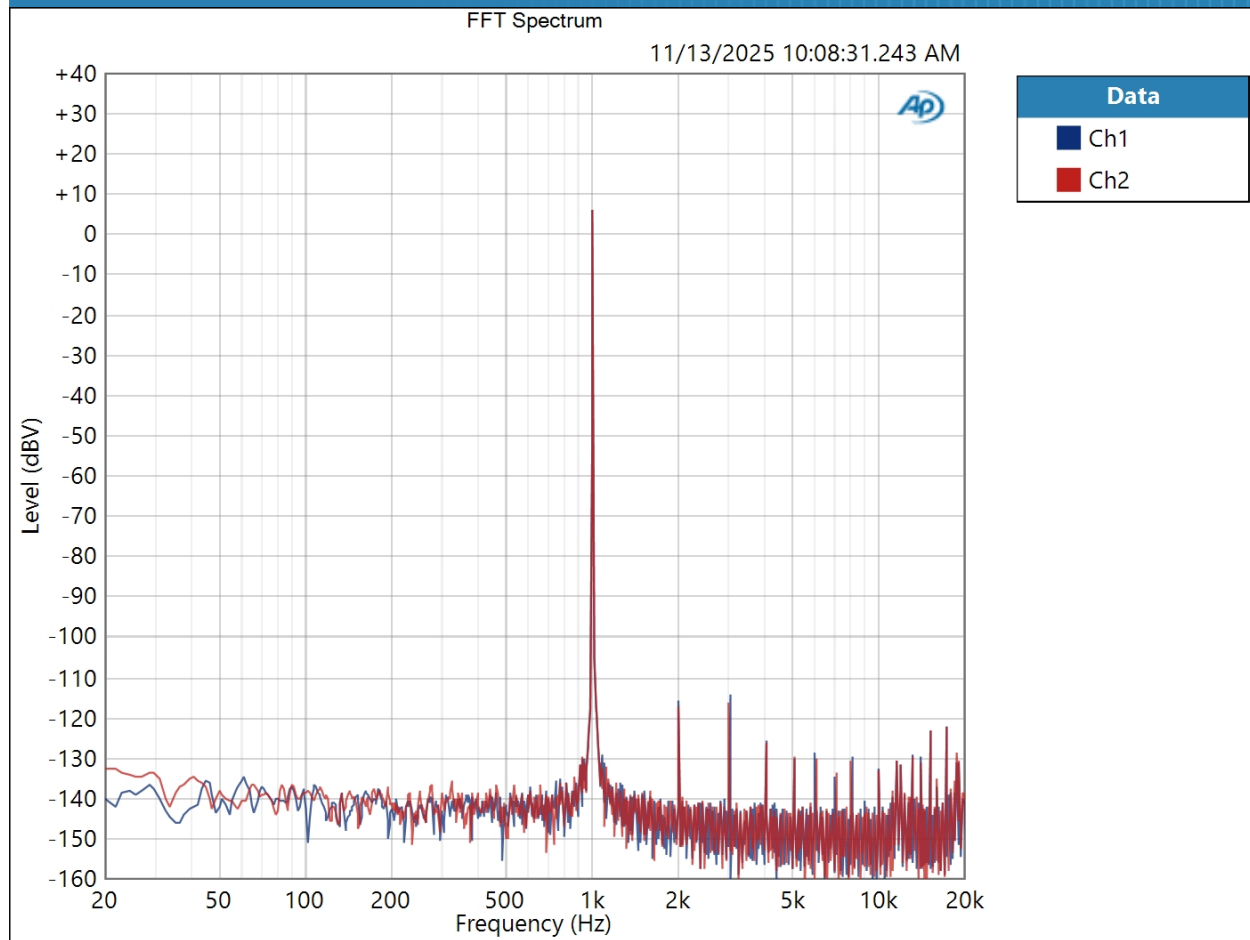
Waveform:	Sine
Generator Level:	$-\infty$ dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Delay Time:	100.0 ms
Acquisition Time:	333.0 ms

DC Level (11/13/2025 10:08:27.161 AM)

Ch1 767.0 μ V
Ch2 -2.923 mV

USB : Signal Analyzer

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 11/13/2025 10:08:31 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32K
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)
FFT Spectrum (11/13/2025 10:08:31.243 AM)



Result:  PASSED

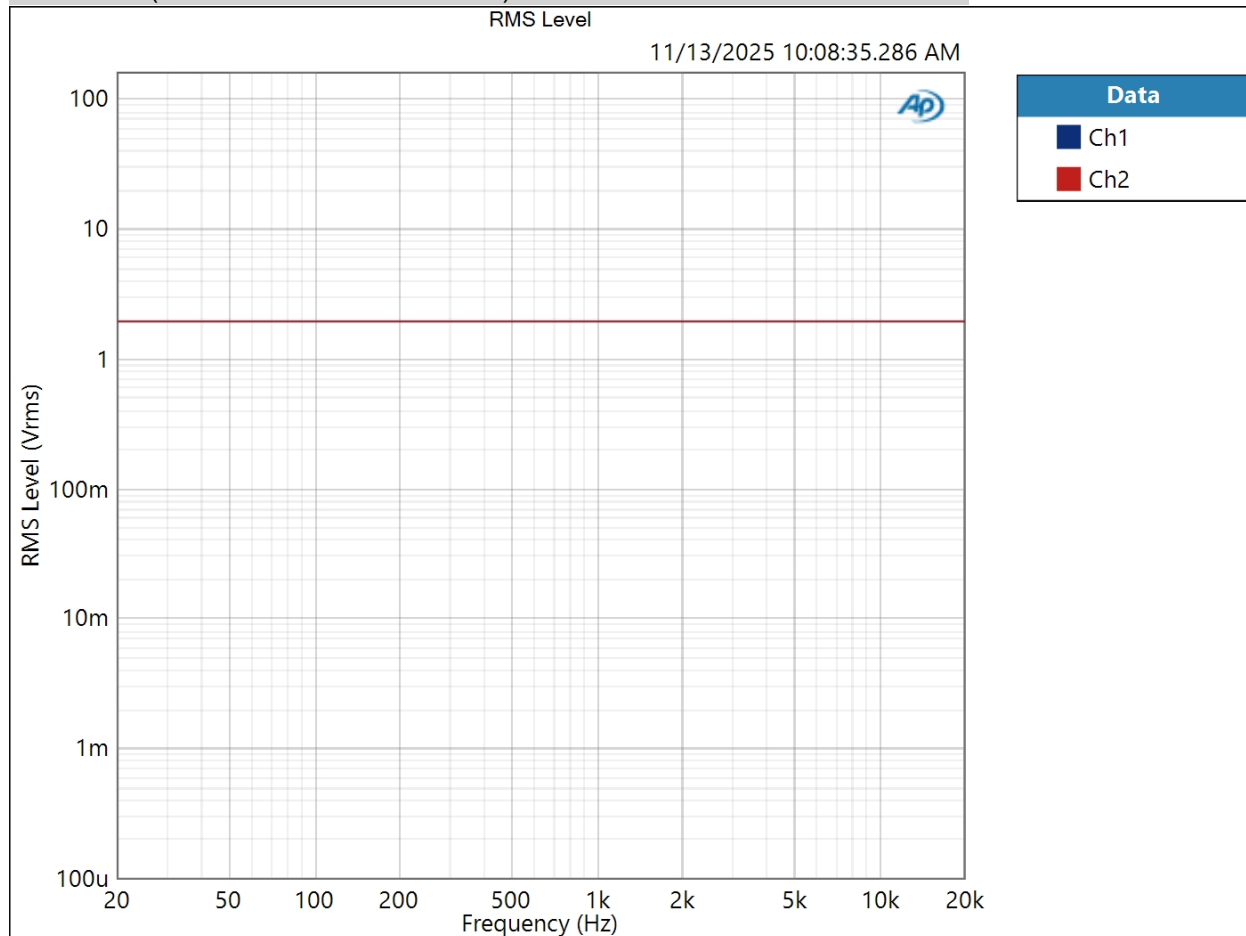
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USB : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
EQ: None
Pre-Sweep: 100.0 ms
Sweep: 350.0 ms
Extend Acquisition By: 1.000 s
Secondary Source: None
Measured 1 11/13/2025 10:08:35 AM

RMS Level (11/13/2025 10:08:35.286 AM)

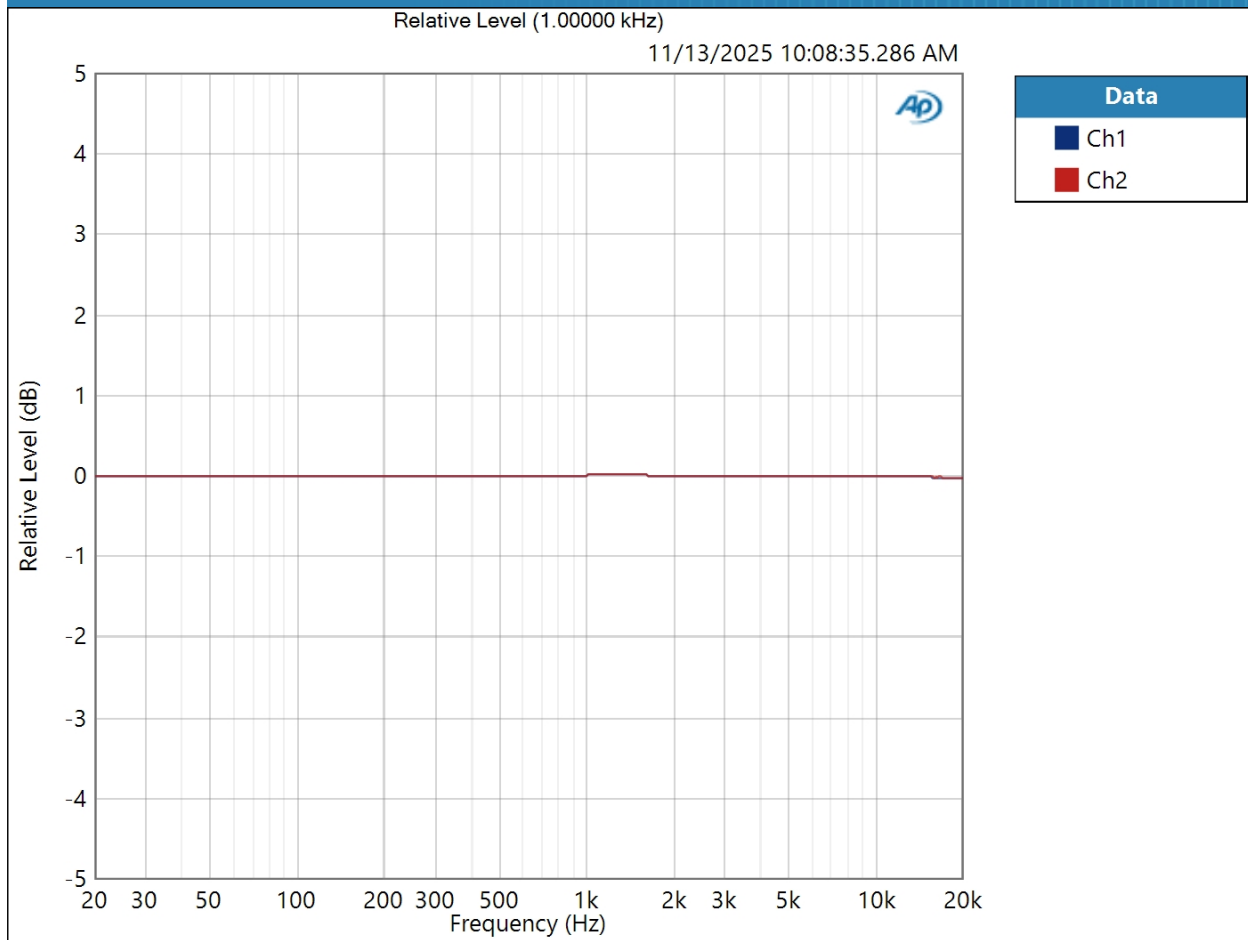


Result: PASSED

Relative Level (1.00000 kHz) (11/13/2025 10:08:35.286 AM)

11/13/2025 10:16 AM

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Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (11/13/2025 10:08:35.286 AM)

Ch1 ± 0.026 dBCh2 ± 0.025 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

USB : Signal to Noise Ratio

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

Signal to Noise Ratio (11/13/2025 10:08:37.336 AM)

Ch1 118.143 dB

Ch2 117.722 dB

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USB : THD+N

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

THD+N Ratio (11/13/2025 10:08:39.691 AM)

Ch1 0.000217 %

Ch2 0.000205 %

THD Ratio (11/13/2025 10:08:39.691 AM)

Ch1 0.000161 %

Ch2 0.000138 %

Noise Ratio (11/13/2025 10:08:39.691 AM)

Ch1 0.000149 %

Ch2 0.000155 %

Distortion Product Ratio (11/13/2025 10:08:39.691 AM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	-0.00	-120.08	-118.96	-131.57	-133.21	-133.97	-138.53	-137.61	-144.04	-137.24
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-121.17	-120.69	-133.52	-134.23	-133.99	-137.78	-141.40	-146.20	-138.38

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1

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USB : IMD Level Sweep (CCIF)

IMD Type: CCIF

Mean Frequency: 12.5000 kHz

Diff Frequency: 80.0000 Hz

IMD Split: False

Start Level: -60.000 dBFS

Stop Level: -0.000 dBFS

Step Type: Linear

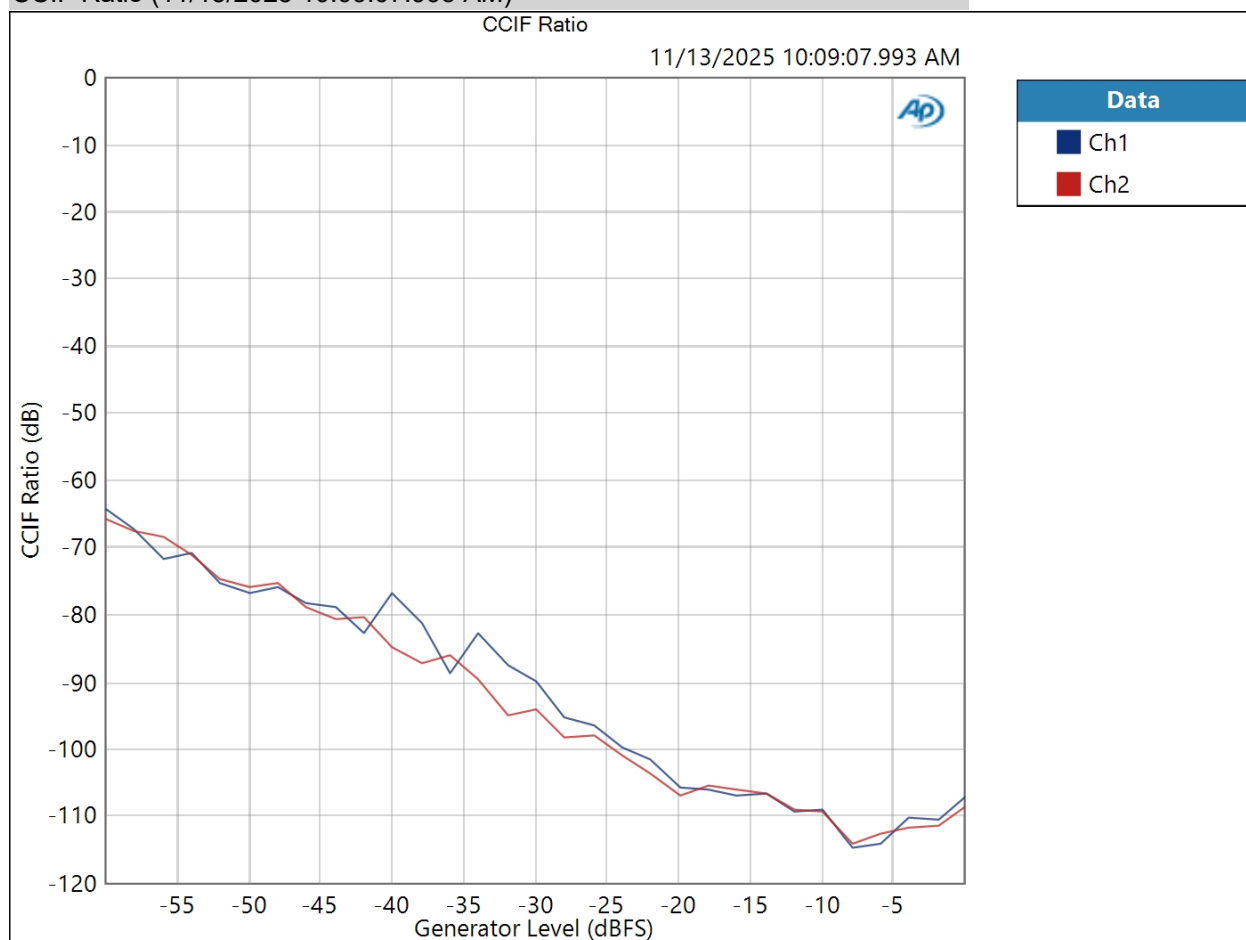
Number of Points: 31

Step Size: +2.000 dBFS

Mode: d2+d3

Measured 1 11/13/2025 10:09:07 AM

CCIF Ratio (11/13/2025 10:09:07.993 AM)



11/13/2025 10:16 AM

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Result:  PASSED

APx555 Measurements: Modi 5



USB : IMD Frequency Sweep (CCIF)

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Sweep Frequency: Mean Frequency

Diff Frequency: 80.0000 Hz

IMD Split: False

Start Frequency: 20.0000 kHz

Stop Frequency: 250.000 Hz

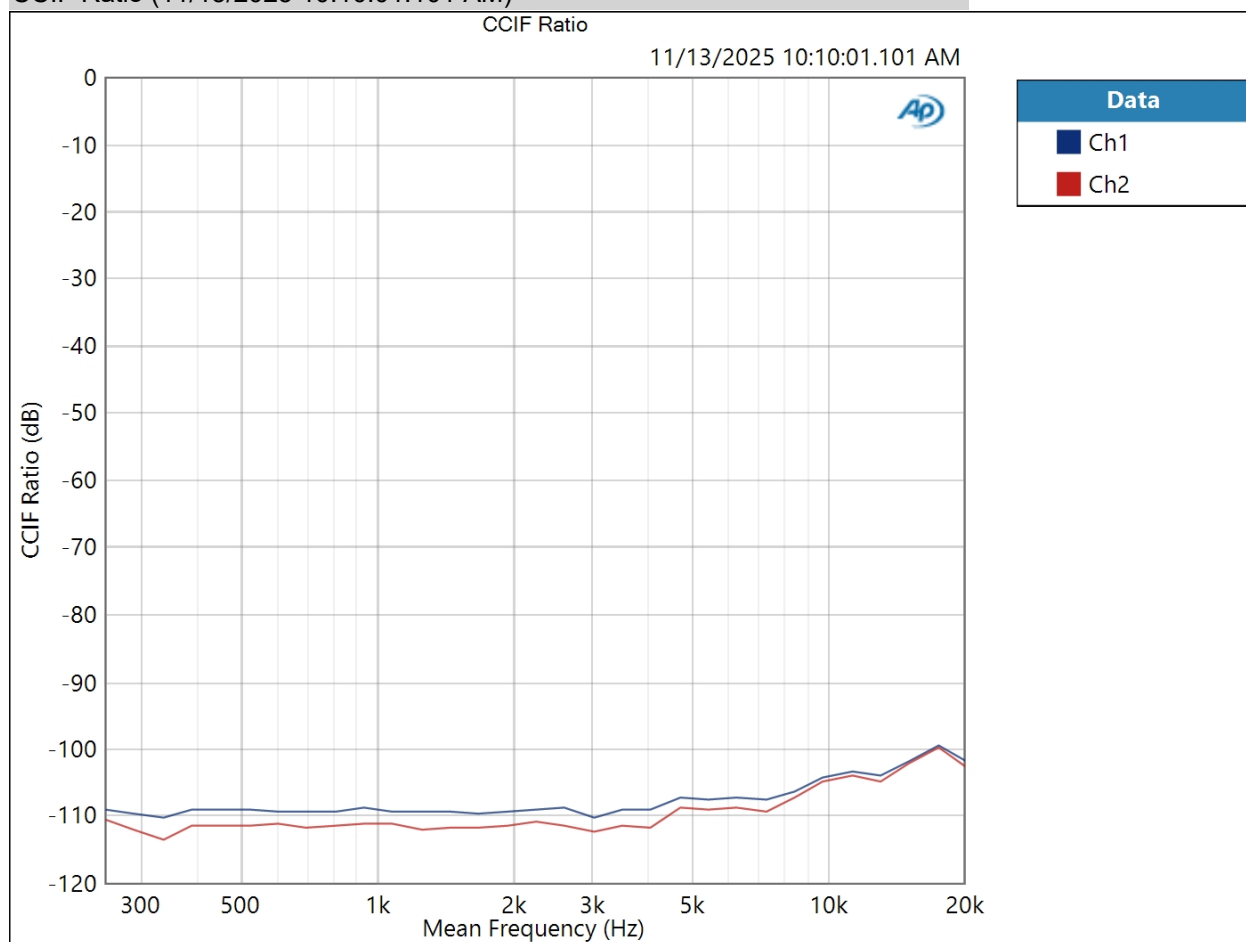
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 11/13/2025 10:10:01 AM

CCIF Ratio (11/13/2025 10:10:01.101 AM)



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Result:  PASSED

USB : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 10.0000 kHz

Crosstalk (11/13/2025 10:10:06.148 AM)

Ch1 -134.199 dB

Ch2 -130.940 dB

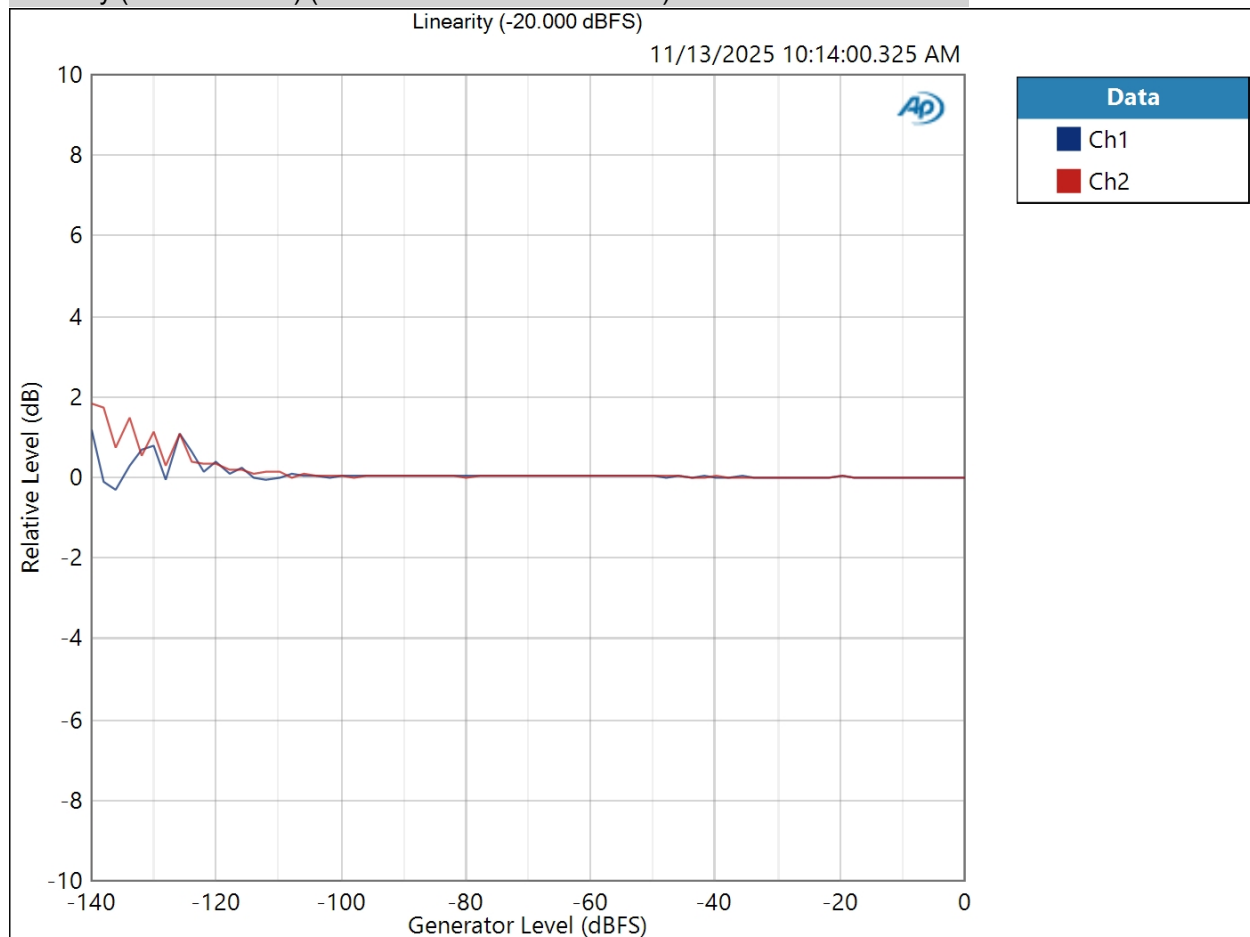
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USB : Bandpass Level Sweep

Waveform: Sine
Frequency: 1.00000 kHz
Start Level: -140.000 dBFS
Stop Level: -0.000 dBFS
Step Type: Linear
Number of Points: 71
Step Size: +2.000 dBFS
Offset: 0.000 D
Selectivity: Window width
Bandpass Tuning Mode: Generator Frequency
Measured 1 11/13/2025 10:14:00 AM

Linearity (-20.000 dBFS) (11/13/2025 10:14:00.325 AM)



Linearity (-20.000 dBFS) Parameters

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Mode: Normalized at Reference

Relative Level: -20.000 dBFS

Result:  PASSED

Optical : Signal Path Setup

Output Connector:	Digital Optical
Output Sample Rate:	44.1000 kHz
Output Bit Depth:	24
Dither:	Enabled
Output Mode:	Consumer
Status Bits:	Auto (Consumer)
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:	Disabled
Input 2:	None
Device Delay:	0.000 s

• References

dBr G:	-20.000 dBFS
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

11/13/2025 10:16 AM

APx555 Measurements: Modi 5



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

Optical : Jitter Level Sweep

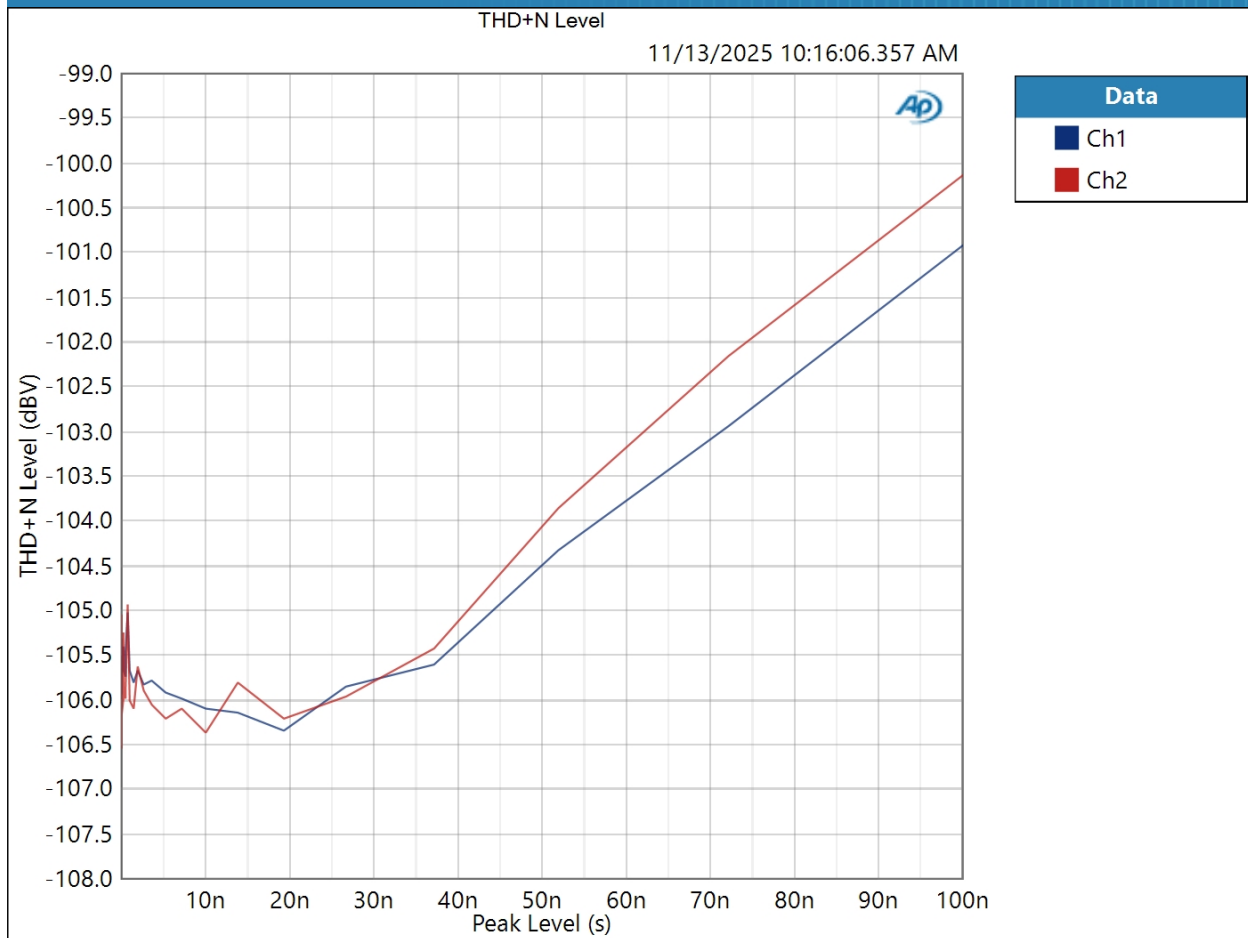
• Audio Generator

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz

• Jitter Generator

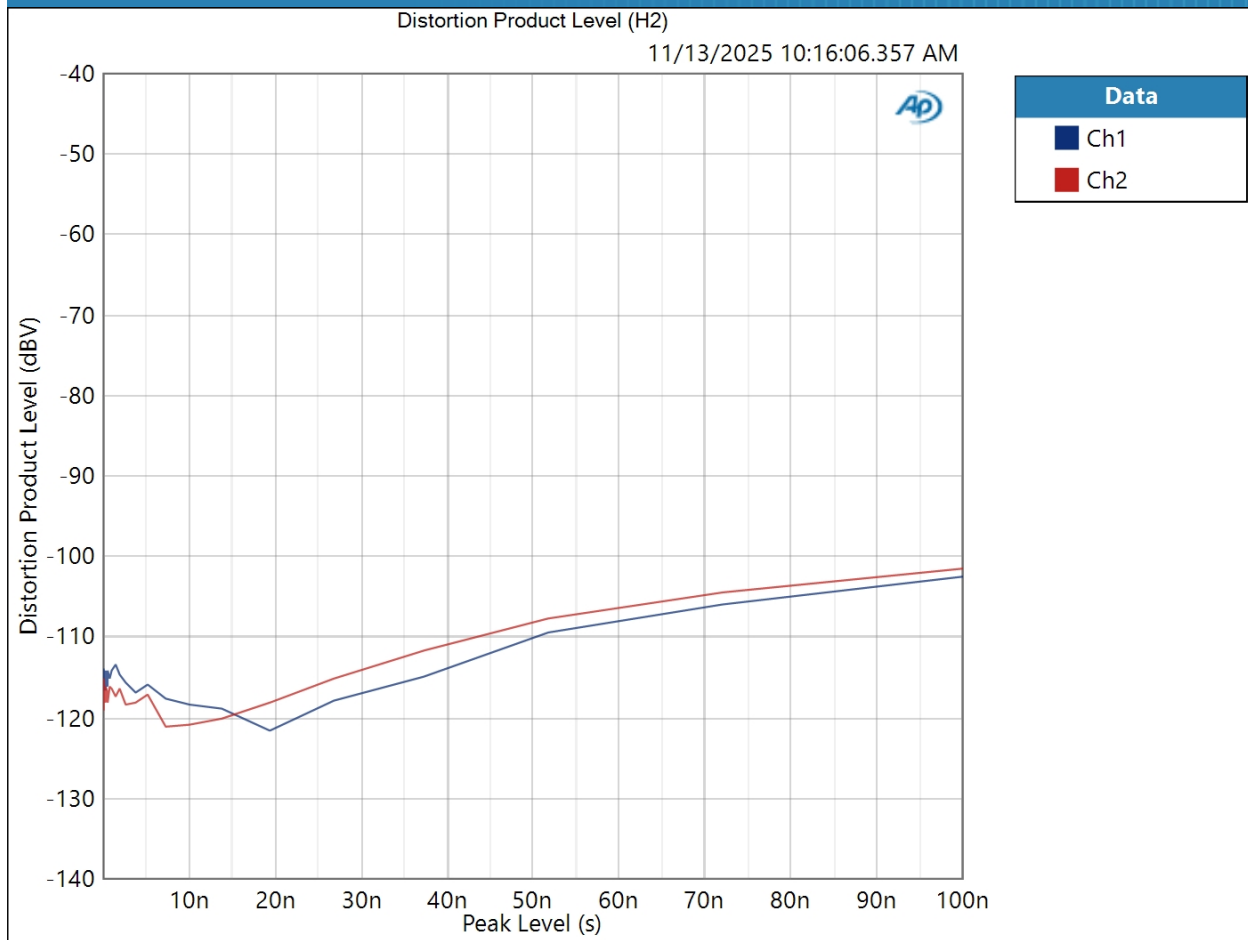
Jitter Waveform: Sine
Start Level: 5.000 ps
Stop Level: 100.0 ns
Step Type: Logarithmic
Number of Points: 31
Jitter Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Generator Frequency
Secondary Source: None
Measured 1 11/13/2025 10:16:06 AM

THD+N Level (11/13/2025 10:16:06.357 AM)



Result: PASSED

Distortion Product Level (H2) (11/13/2025 10:16:06.357 AM)



Distortion Product Level (H2) Parameters

Harmonics: Single Harmonic

Harmonic Number: 2

Result: PASSED