

## 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@schiiit.com](mailto:info@schiiit.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

## 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) - 22.4k (48 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

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 (2/2/2022 9:24:36.054 AM)

Ch1 2.145 Vrms  
 Ch2 2.144 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

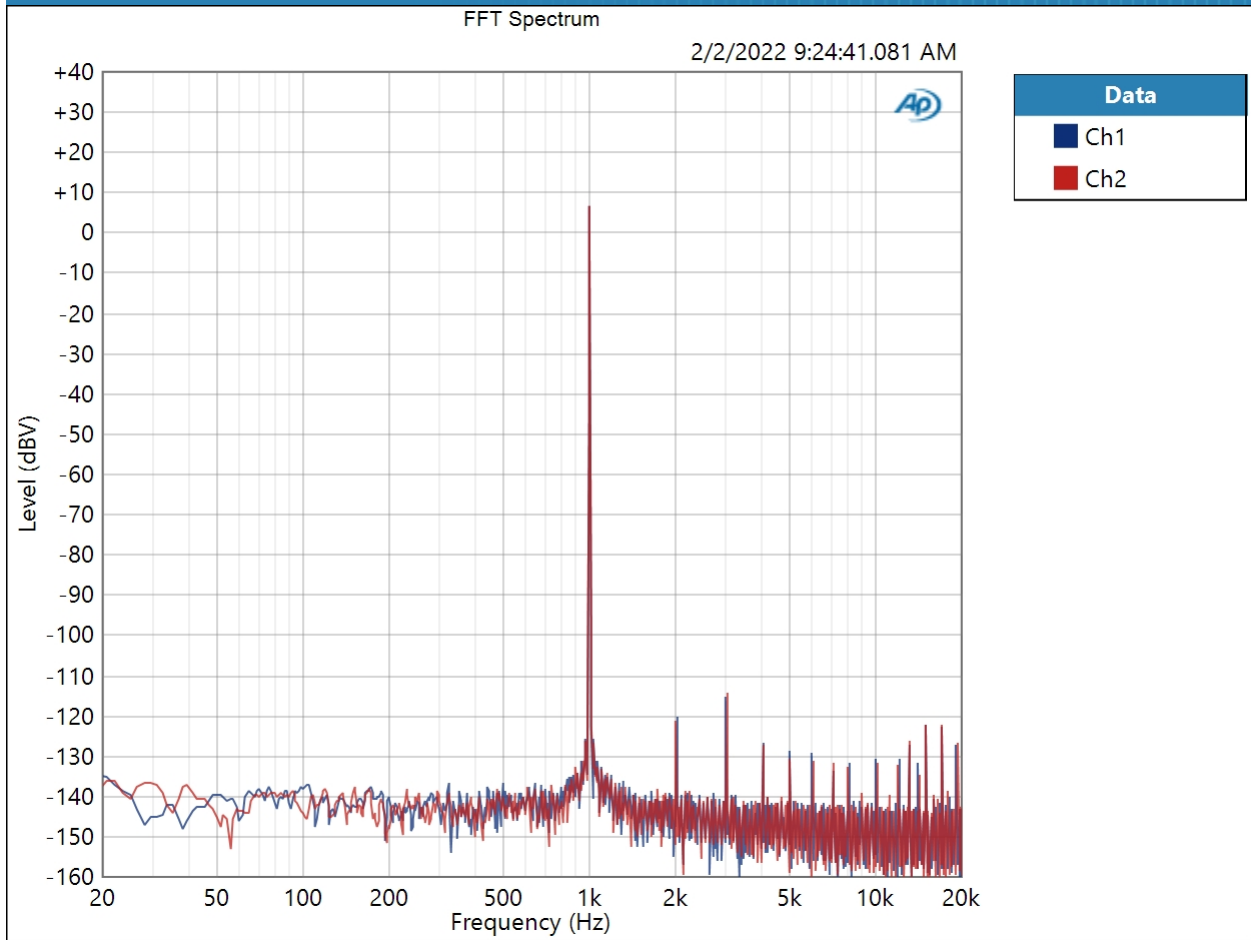
DC Level (2/2/2022 9:24:37.223 AM)

Ch1 -1.476 mV  
 Ch2 -81.29 uV

USB : Signal Analyzer

Waveform: Sine  
Generator Level: -0.000 dBFS  
DC Offset: 0.000 D  
Frequency: 1.00000 kHz  
Secondary Source: None  
Measured 1 2/2/2022 9:24:41 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 (2/2/2022 9:24:41.081 AM)

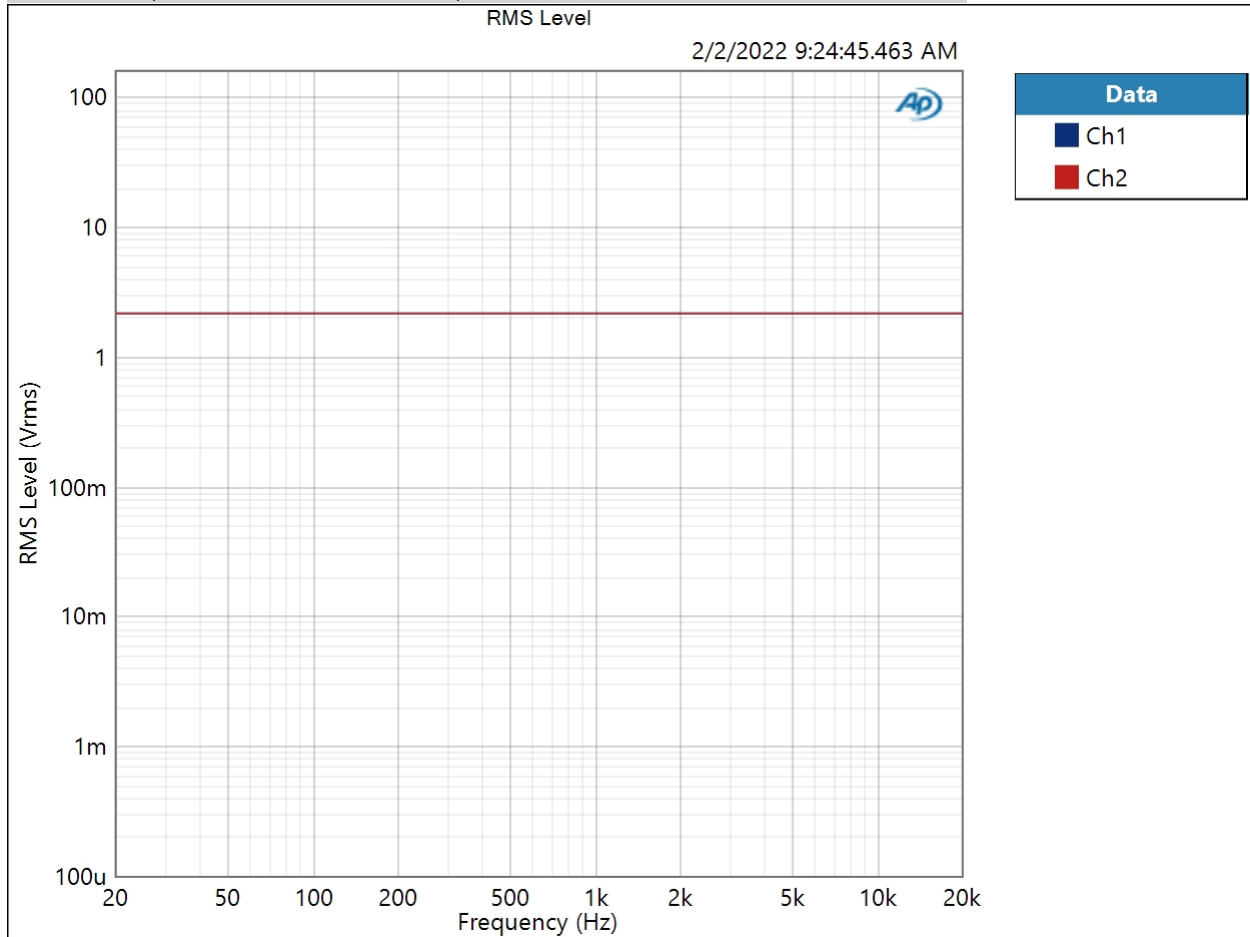


Result: PASSED

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 2/2/2022 9:24:45 AM

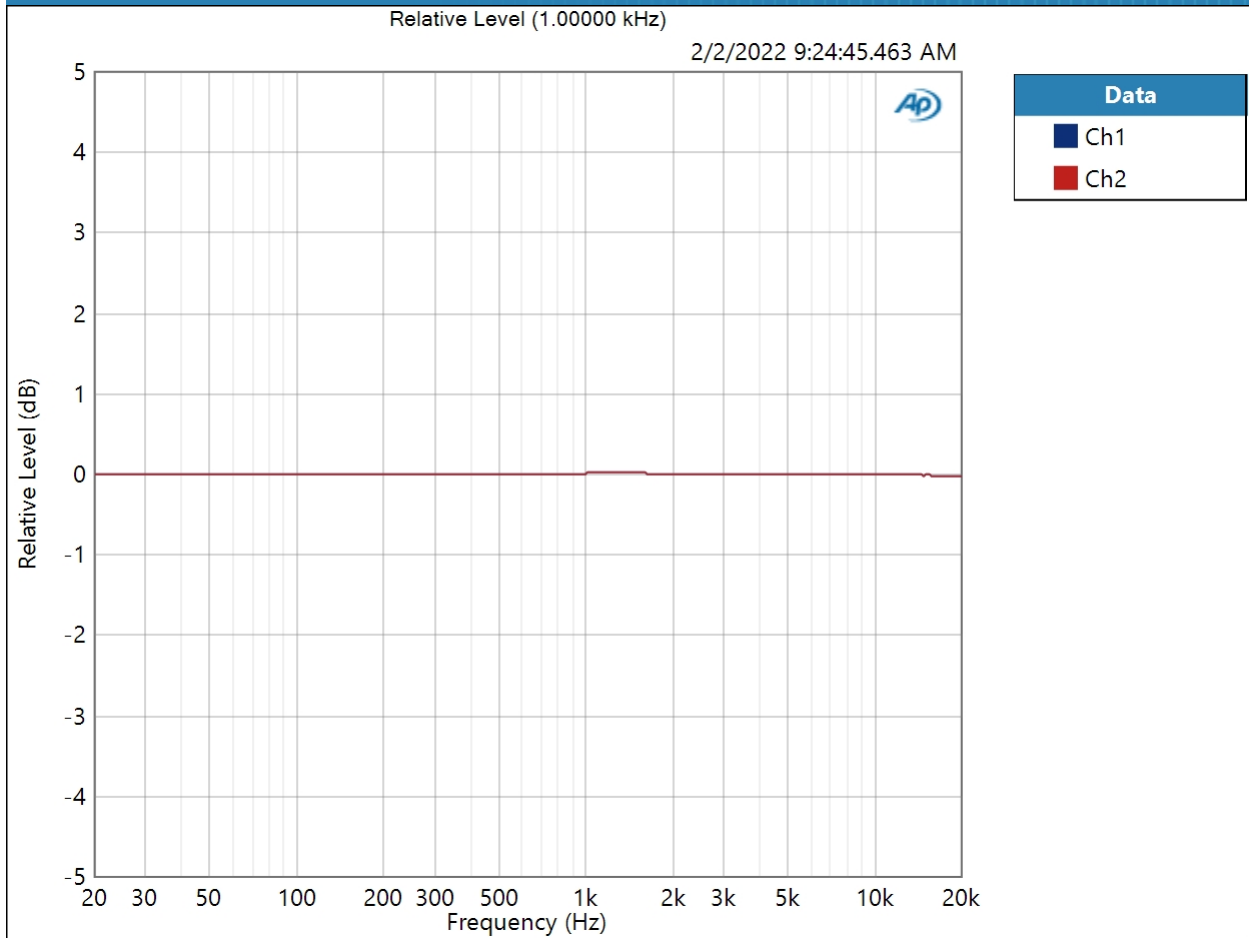
RMS Level (2/2/2022 9:24:45.463 AM)



Result: PASSED

Relative Level (1.00000 kHz) (2/2/2022 9:24:45.463 AM)

2/2/2022 9:29 AM



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference

Ref Frequency: 1.00000 kHz

Result: ✔ PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (2/2/2022 9:24:45.463 AM)

Ch1  $\pm 0.026$  dB

Ch2  $\pm 0.027$  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: Signal Path

Signal to Noise Ratio (2/2/2022 9:24:47.550 AM)

Ch1 118.759 dB  
Ch2 118.705 dB



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: Signal Path  
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (2/2/2022 9:24:49.837 AM)

Ch1 0.000196 %  
 Ch2 0.000198 %

THD Ratio (2/2/2022 9:24:49.837 AM)

Ch1 0.000126 %  
 Ch2 0.000126 %

Noise Ratio (2/2/2022 9:24:49.837 AM)

Ch1 0.000151 %  
 Ch2 0.000150 %

Distortion Product Ratio (2/2/2022 9:24:49.837 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	-126.04	-121.24	-133.25	-133.59	-138.54	-138.62	-137.90	-146.68	-137.17
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-127.84	-120.47	-132.86	-135.27	-137.89	-138.90	-139.16	-141.68	-135.59

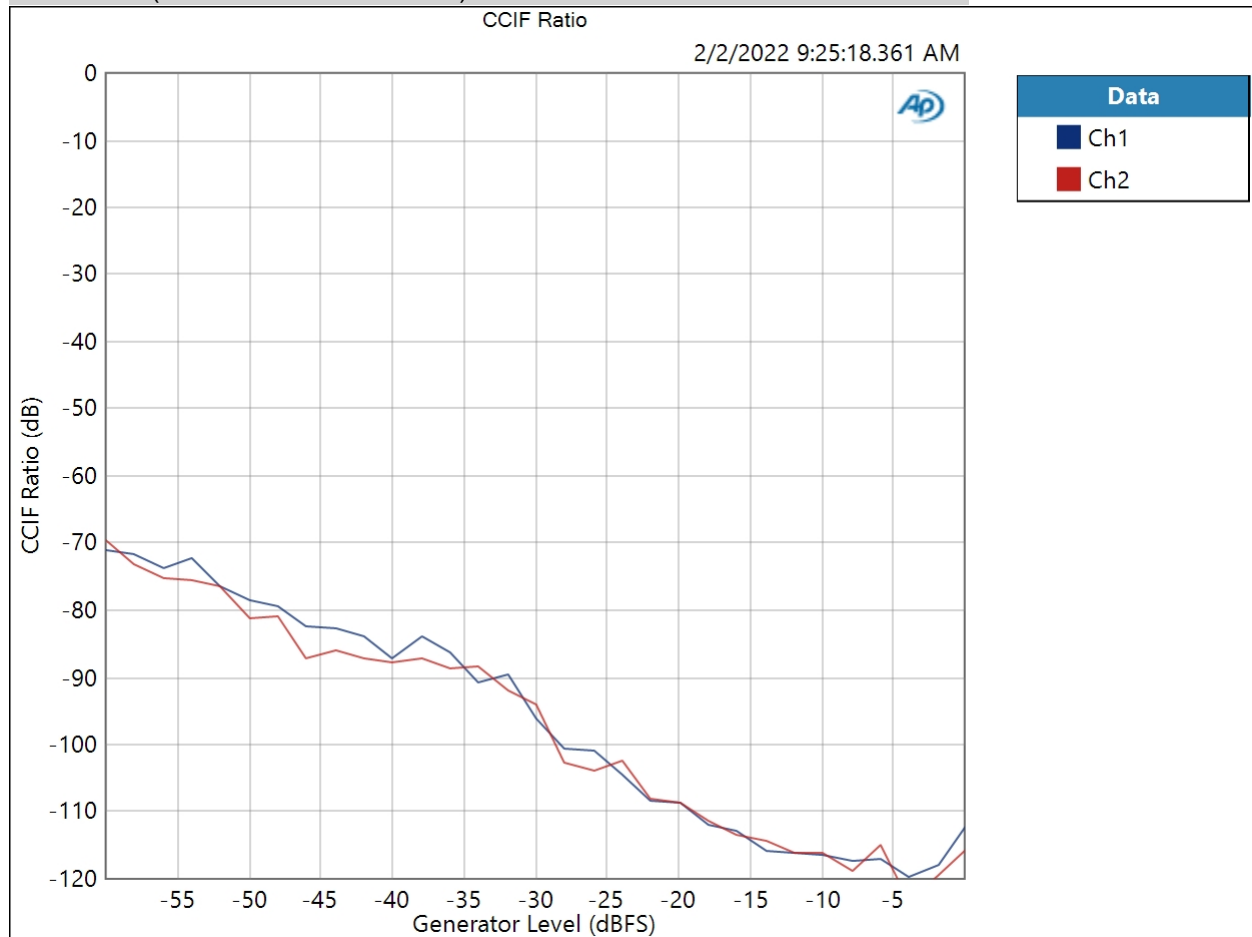
Distortion Product Ratio Parameters

Frequency Unit: Hz  
 Ratio Unit: dB  
 Channel: Ch1

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 2/2/2022 9:25:18 AM

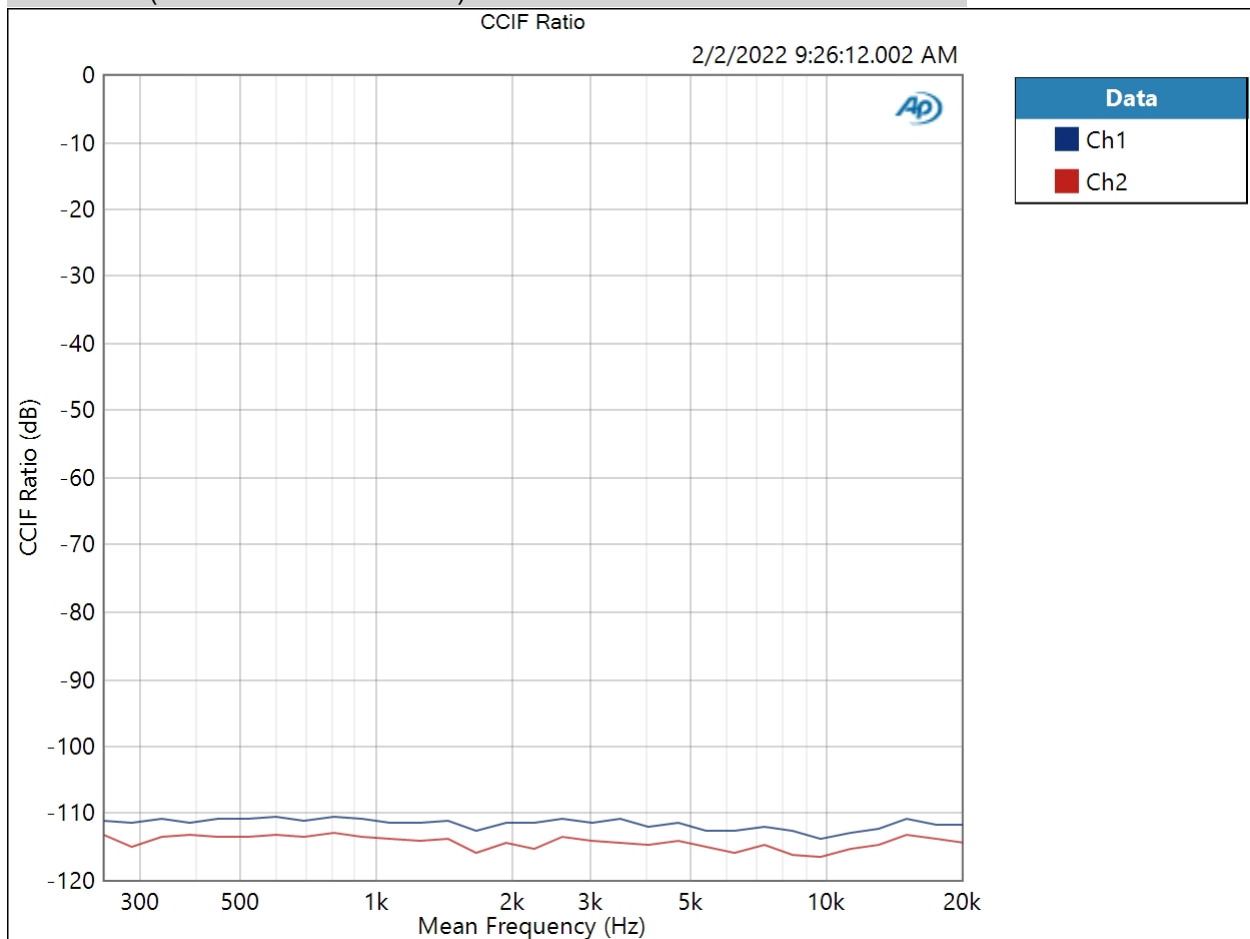
CCIF Ratio (2/2/2022 9:25:18.361 AM)



Result:  PASSED

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 2/2/2022 9:26:12 AM

CCIF Ratio (2/2/2022 9:26:12.002 AM)



Result:  PASSED

USB : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 10.0000 kHz

Crosstalk (2/2/2022 9:26:16.905 AM)

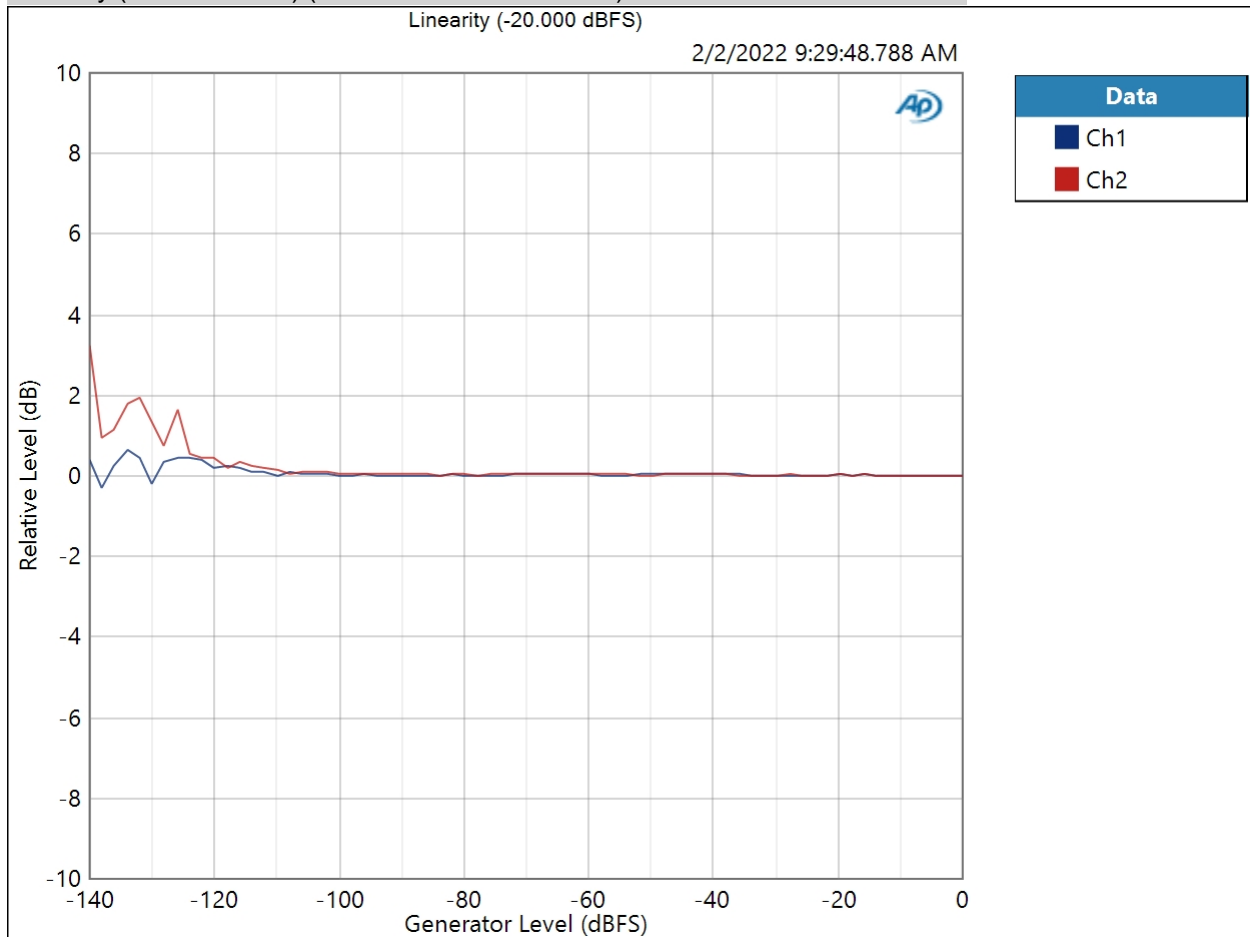
Ch1 -123.936 dB

Ch2 -137.400 dB

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 2/2/2022 9:29:48 AM

Linearity (-20.000 dBFS) (2/2/2022 9:29:48.788 AM)



Linearity (-20.000 dBFS) Parameters

Mode: Normalized at Reference

Relative Level: -20.000 dBFS

Result:  PASSED