

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

Signal Path1

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Full Scale FFT	✓ PASSED
-120 FFT	✓ 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: 100546525
Calibration Date: 2/10/2021
APx Version: 6.0.1.592.148673

Signal Path1 : Signal Path Setup

Output Connector:	ASIO
Asio Device:	ASIO2WASAPI
Scaling Mode:	Digital
Output Sample Rate:	48.0000 kHz
Output Latency:	Auto
Buffer Size:	4800
Clock Source:	Internal clock
Input 1:	Analog Unbalanced
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Input EQ:	None
Channels:	2
Termination:	100 kohm
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.	

Signal Path1 : 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 (12/21/2022 9:41:23.260 AM)

Ch1 2.092 Vrms
Ch2 2.090 Vrms

Signal Path1 : 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

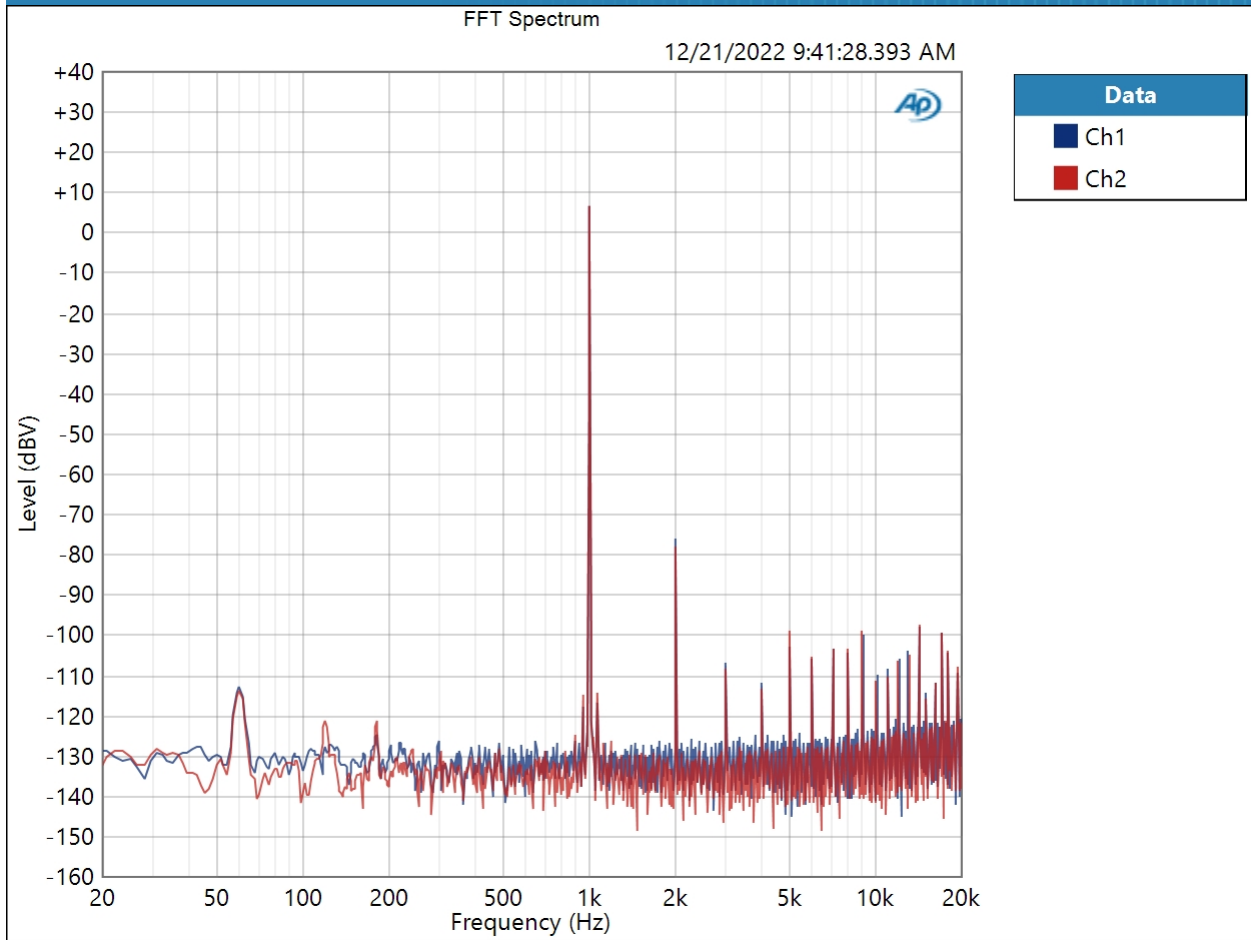
DC Level (12/21/2022 9:41:24.555 AM)

Ch1 -3.220 mV
Ch2 -321.5 uV

Signal Path1 : Full Scale FFT

Waveform: Sine
Generator Level: -0.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 12/21/2022 9:41:28 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 (12/21/2022 9:41:28.393 AM)

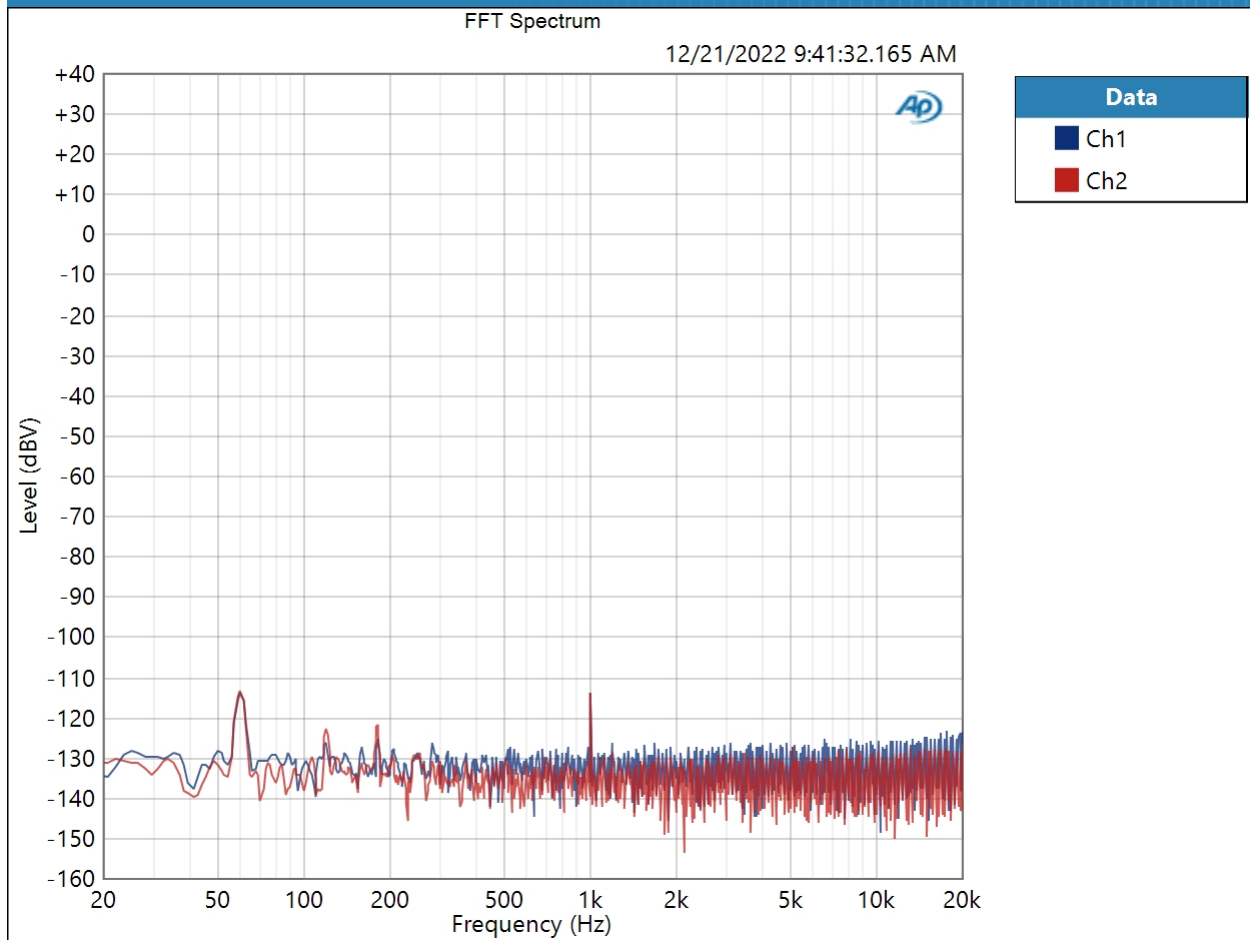


Result: PASSED

Signal Path1 : -120 FFT

Waveform: Sine
Generator Level: -120.000 dBFS
DC Offset: 0.000 D
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 12/21/2022 9:41:32 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 (12/21/2022 9:41:32.165 AM)

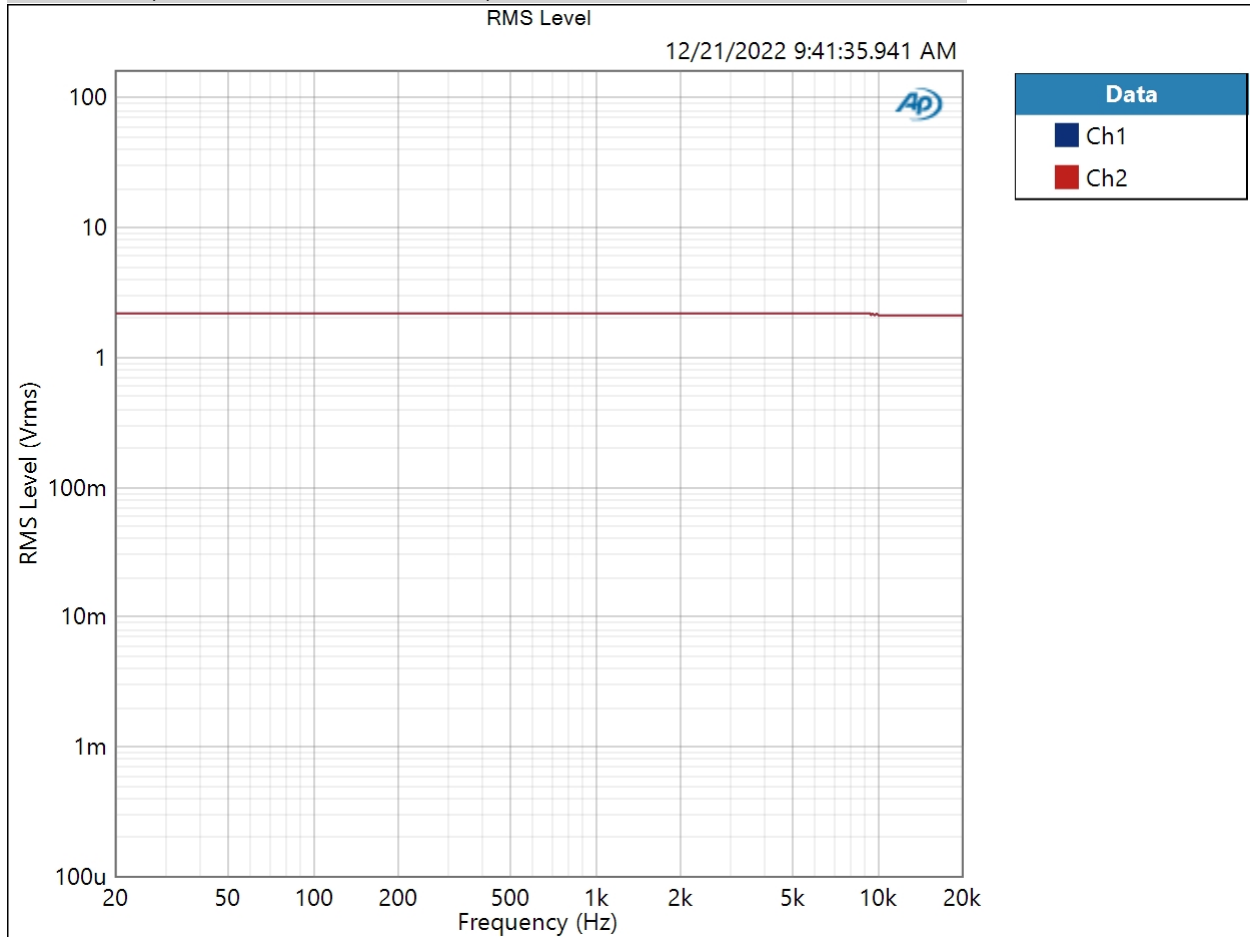


Result:  PASSED

Signal Path1 : Frequency Response

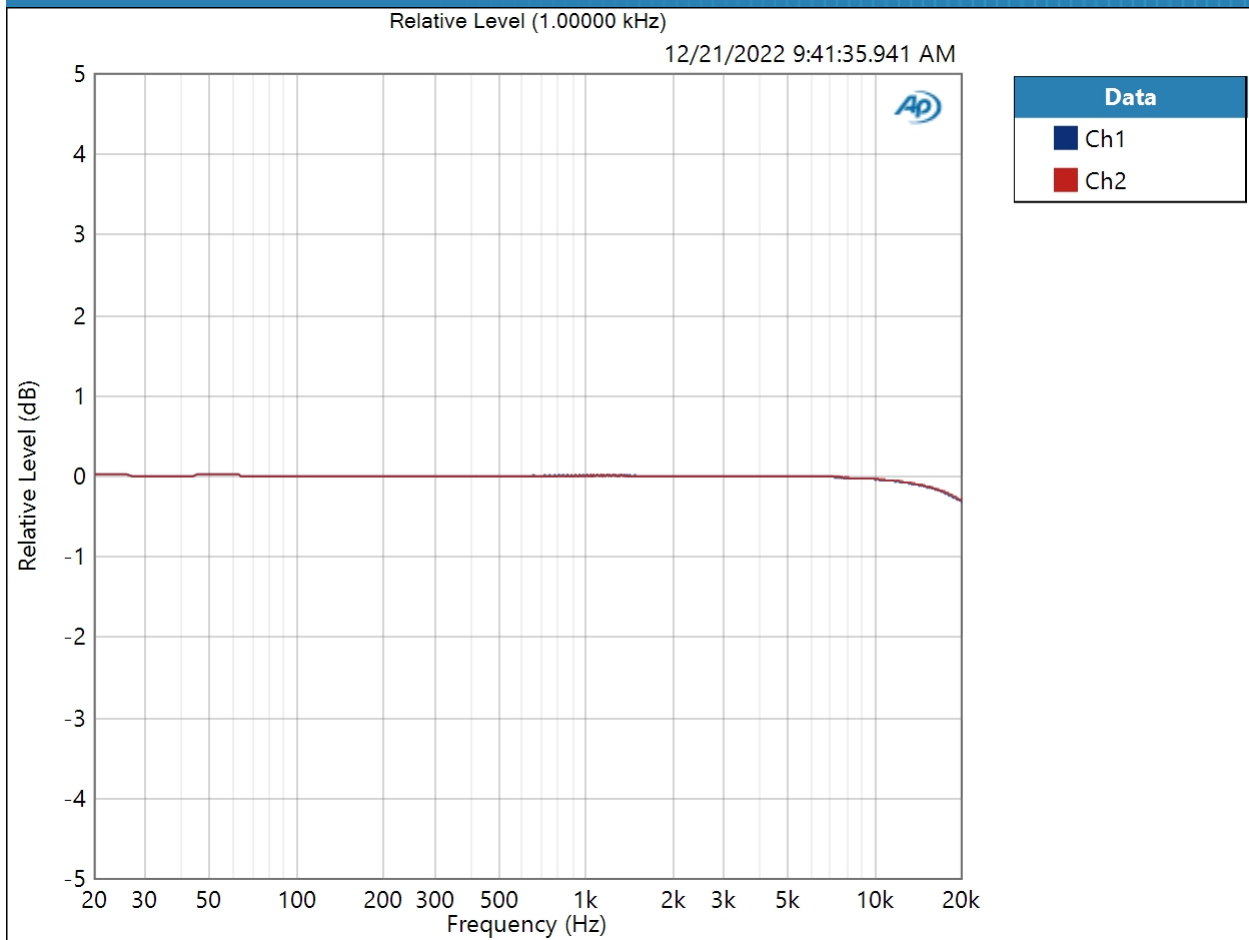
Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: -0.000 dBFS
 DC Offset: 0.000 D
 EQ: None
 Pre-Sweep: 100.0 ms
 Sweep: 350.0 ms
 Extend Acquisition By: 1.000 s
 Secondary Source: None
 Measured 1 12/21/2022 9:41:35 AM

RMS Level (12/21/2022 9:41:35.941 AM)



Result: PASSED

Relative Level (1.00000 kHz) (12/21/2022 9:41:35.941 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) (12/21/2022 9:41:35.941 AM)

Ch1 ± 0.174 dB

Ch2 ± 0.165 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Signal Path1 : 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: C-wt.

Signal to Noise Ratio (12/21/2022 10:03:33.219 AM)

Ch1 108.912 dB
Ch2 106.711 dB

Signal Path1 : THD+N

Waveform: Sine
 Generator Level: -6.000 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: C-wt.
 Notch Tuning Mode: Measured Frequency

THD+N Ratio (12/21/2022 10:04:15.021 AM)

Ch1 0.004532 %
 Ch2 0.003987 %

THD Ratio (12/21/2022 10:04:15.021 AM)

Ch1 0.004353 %
 Ch2 0.003877 %

Noise Ratio (12/21/2022 10:04:15.021 AM)

Ch1 0.001347 %
 Ch2 0.000989 %

Distortion Product Ratio (12/21/2022 10:04:15.021 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	-88.45	-106.81	-112.14	-98.39	-118.70	-104.09	-107.38	-105.45	-115.77
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-90.54	-99.66	-112.47	-96.92	-110.66	-103.77	-106.78	-105.57	-119.23

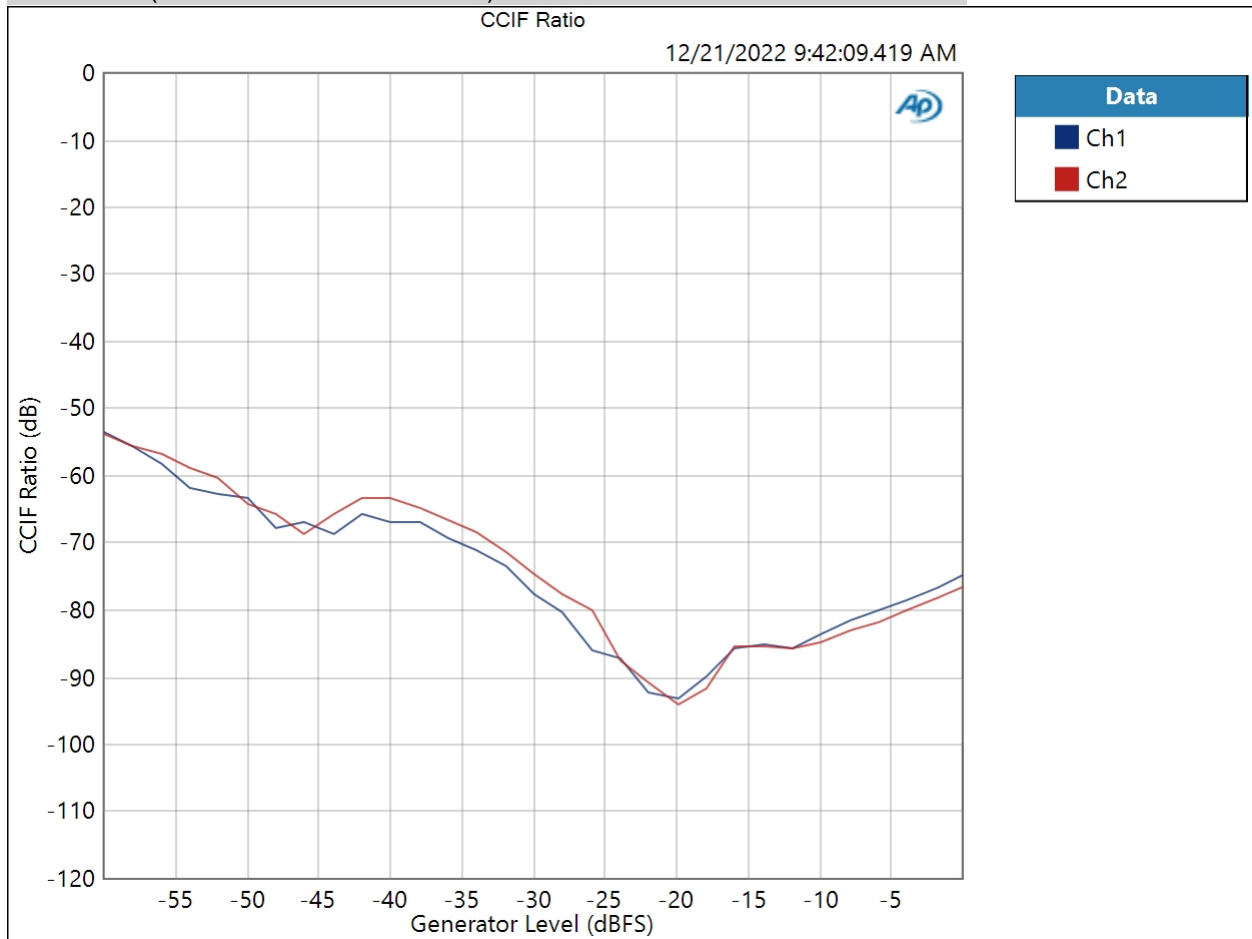
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB
 Channel: Ch1

Signal Path1 : 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
 Measured 1 12/21/2022 9:42:09 AM

CCIF Ratio (12/21/2022 9:42:09.419 AM)

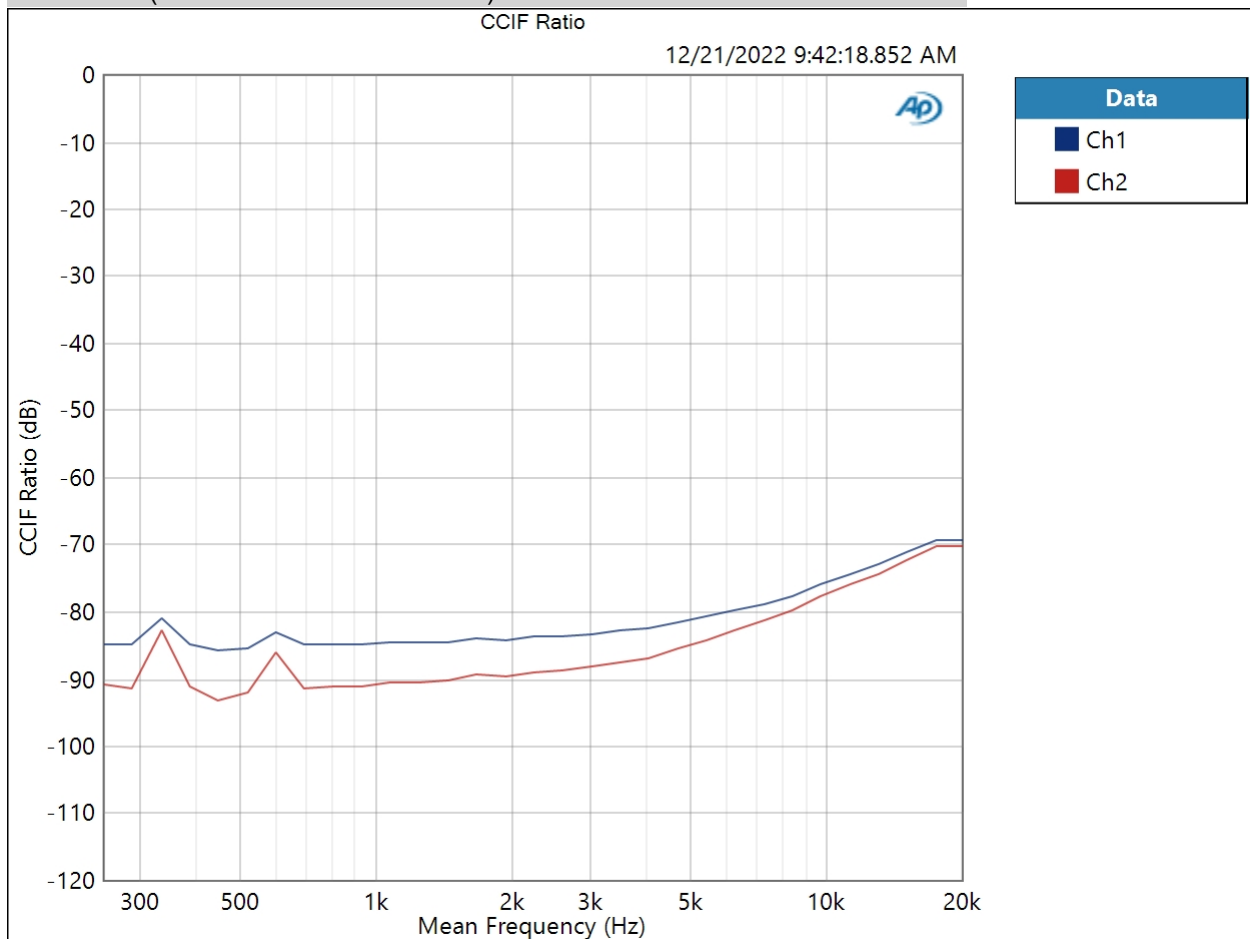


Result:  PASSED

Signal Path1 : 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
 Measured 1 12/21/2022 9:42:18 AM

CCIF Ratio (12/21/2022 9:42:18.852 AM)



Result:  PASSED

Signal Path1 : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Level: -0.000 dBFS

DC Offset: 0.000 D

Frequency: 10.0000 kHz

Crosstalk (12/21/2022 9:42:23.855 AM)

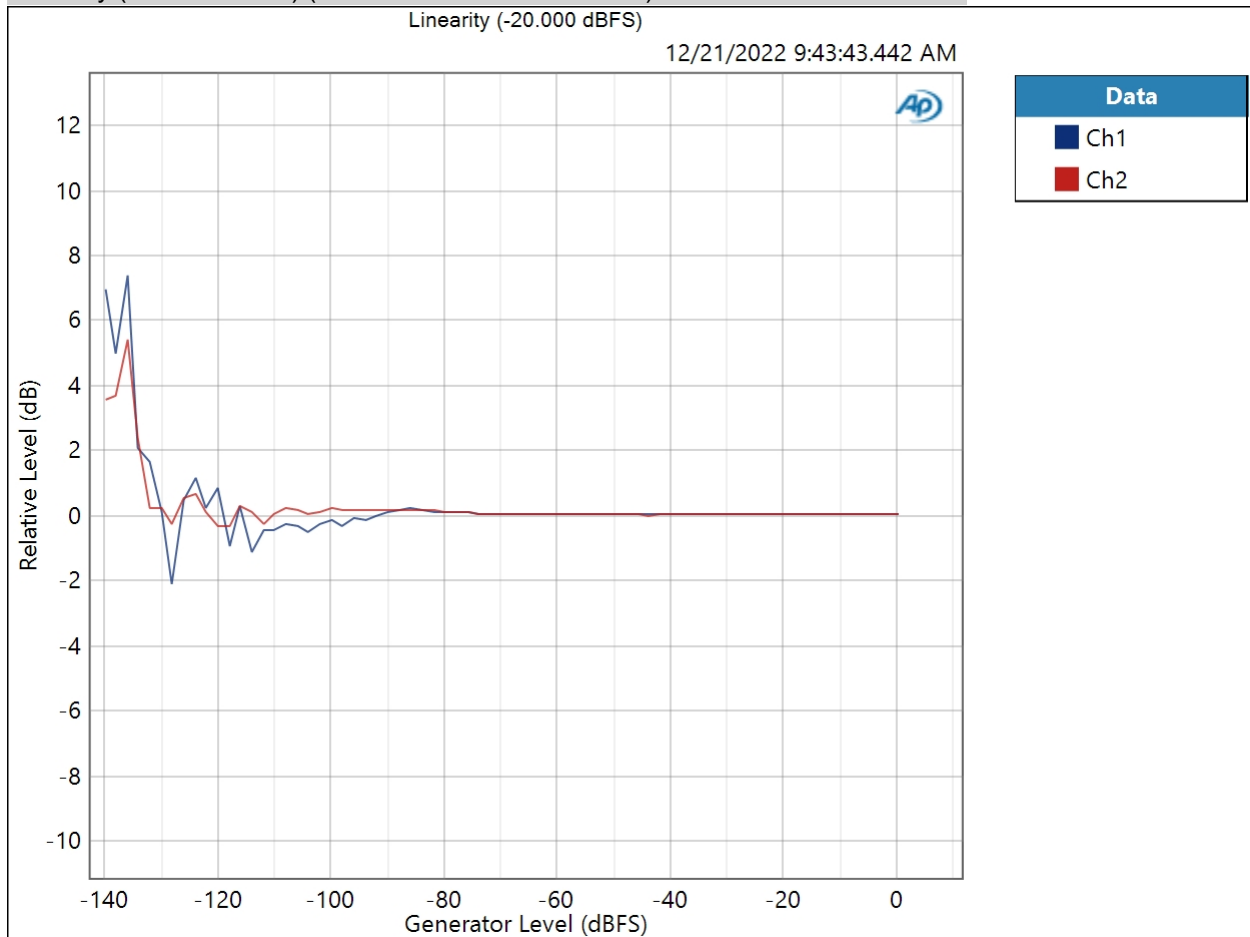
Ch1 117.478 dB

Ch2 113.664 dB

Signal Path1 : 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 12/21/2022 9:43:43 AM

Linearity (-20.000 dBFS) (12/21/2022 9:43:43.442 AM)



Linearity (-20.000 dBFS) Parameters

APx Test Suite: Modi Multibit 2



Mode: Normalized at Reference

Relative Level: -20.000 dBFS

Result:  PASSED