APx555 Report: Hel+

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@schiit.com with a copy of your results so we can bring back your product and check it against our standard.

Summary

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
Negative 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
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

Optical

Signal Analyzer	PASSED
IMD Level Sweep (CCIF)	PASSED
Crosstalk, One Channel Undriven	PASSED

Sequence Result:

Sequence Result:	PASSED

APx Instrument

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

Low Gain : Signal Path Setup

Output Connector:	ASIO
Asio Device:	ASIO4ALL v2
Scaling Mode:	Digital
Output Sample Rate:	48.0000 kHz
Output Latency:	Auto
Buffer Size:	256
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:	300 ohm
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
dBSPL1:	10.00 mVrms
dBSPL2:	10.00 mVrms
dBSPL1 Calibrator Level:	94.000 dBSPL
dBSPL2 Calibrator Level:	94.000 dBSPL
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

Low Gain : 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 (10/11/2023 12:29:16.100 PM)

Ch1 2.032 Vrms
Ch2 2.037 Vrms

Low Gain : DC Level

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

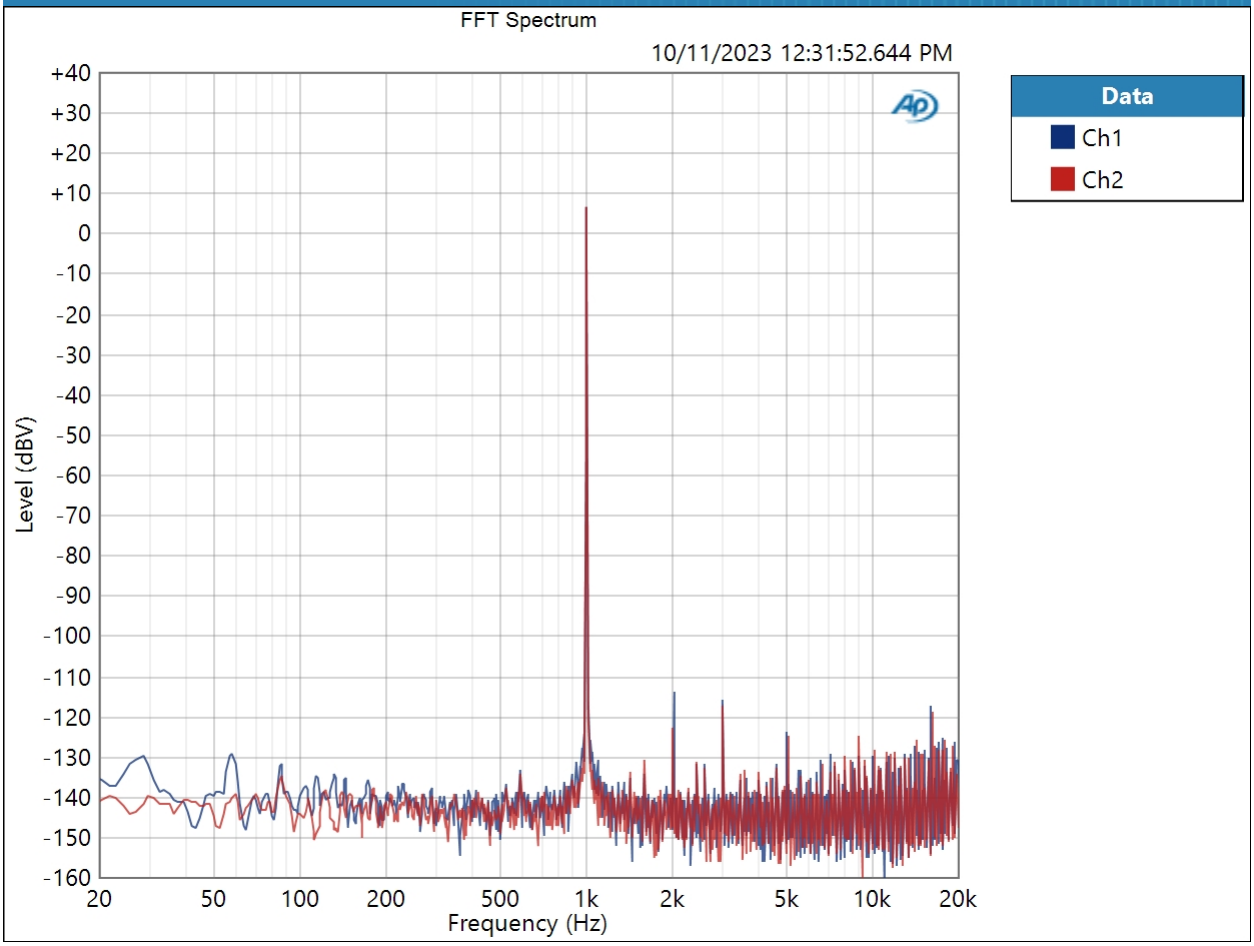
DC Level (10/11/2023 12:29:17.322 PM)

Ch1 70.56 uV
Ch2 485.3 uV

Low Gain : Signal Analyzer

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	10/11/2023 12:31:52 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 (10/11/2023 12:31:52.644 PM)

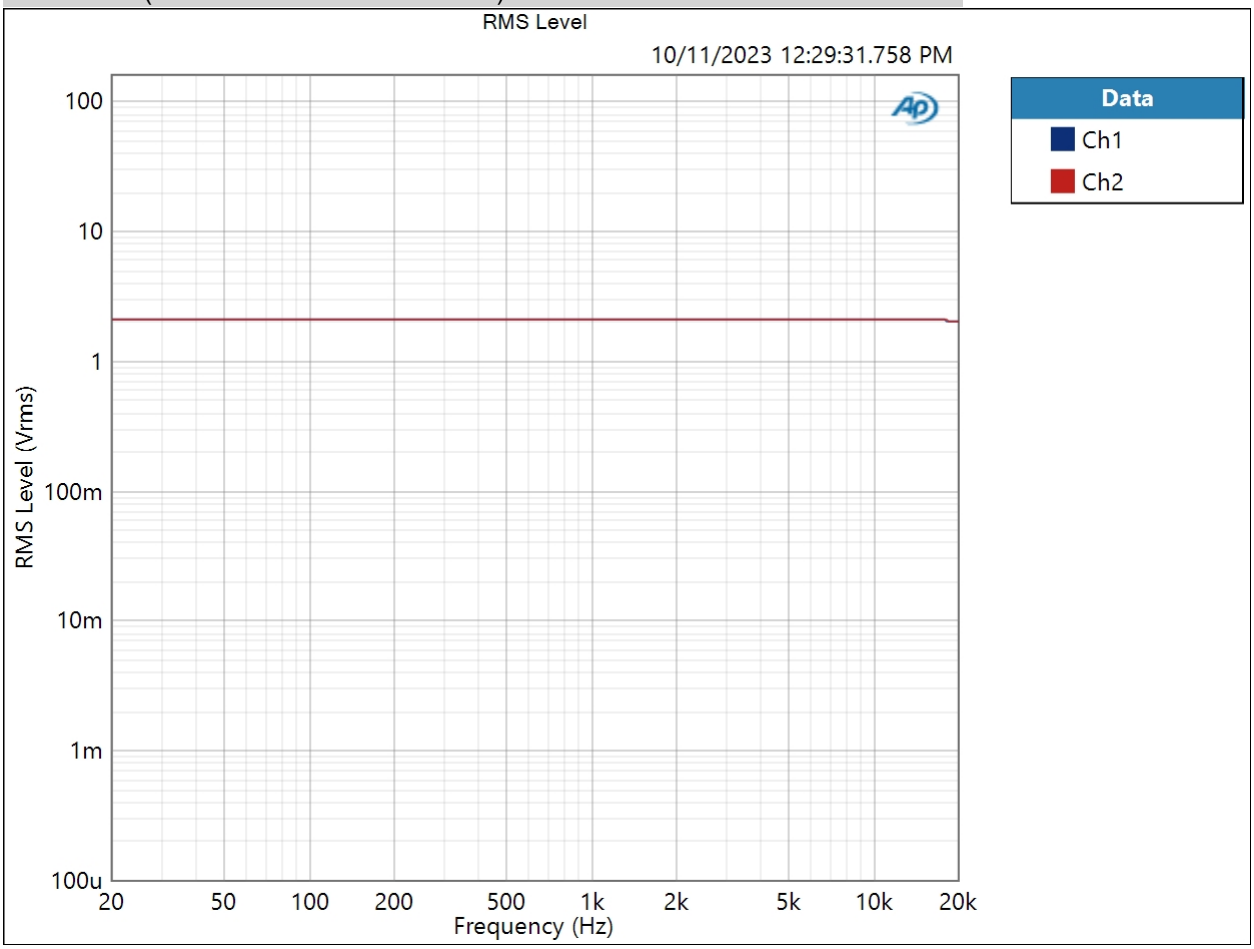


Result: PASSED

Low Gain : Frequency Response

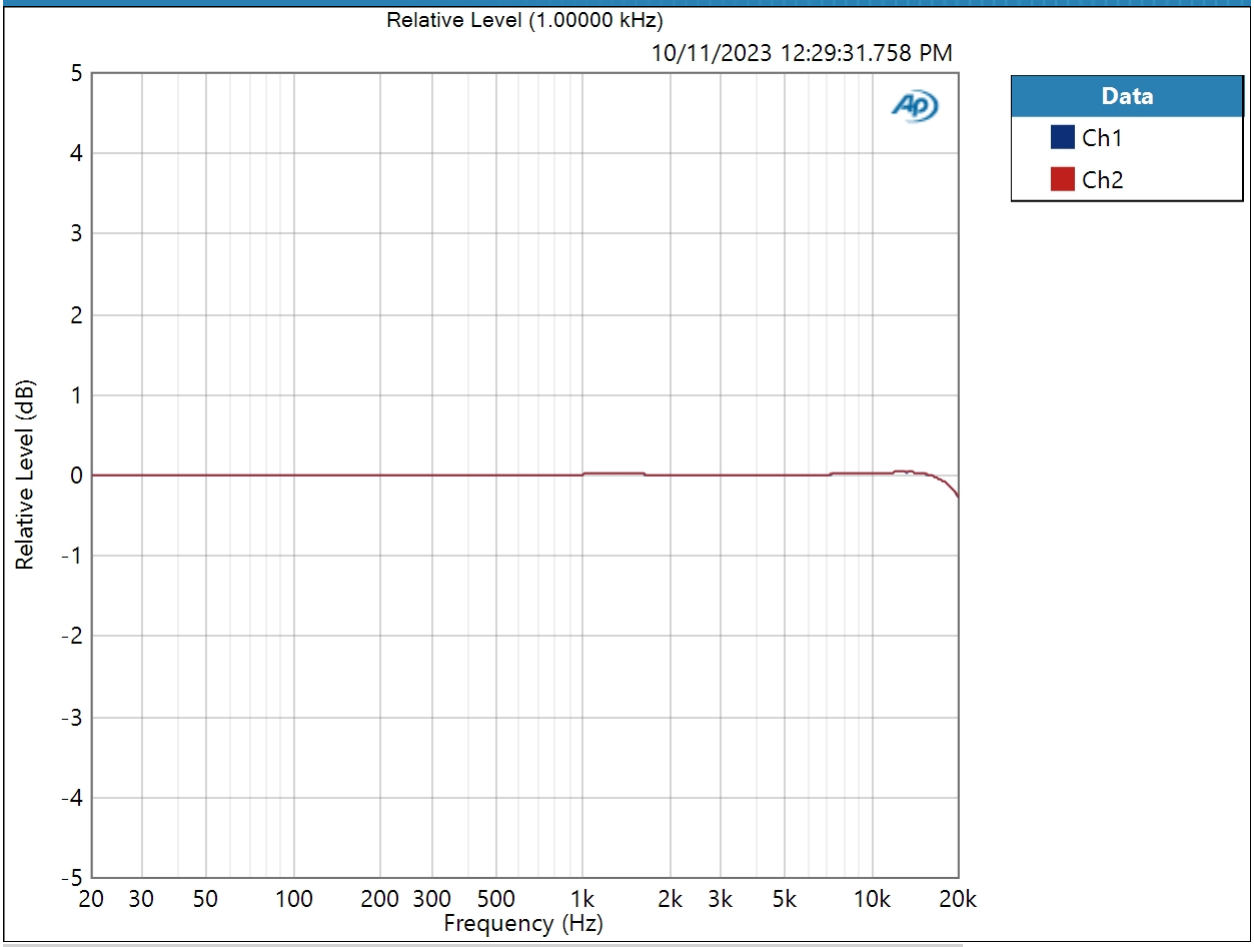
Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
EQ:	None
Pre-Sweep:	500.0 ms
Sweep:	1.000 s
Extend Acquisition By:	3.000 s
Secondary Source:	None
Measured 1	10/11/2023 12:29:31 PM

RMS Level (10/11/2023 12:29:31.758 PM)



Result: PASSED

Relative Level (1.00000 kHz) (10/11/2023 12:29:31.758 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) (10/11/2023 12:29:31.758 PM)

Ch1 ±0.174 dB

Ch2 ±0.173 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Low Gain : 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 (10/11/2023 12:38:40.977 PM)

Ch1 115.707 dB
Ch2 115.777 dB

Low Gain : 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 (10/11/2023 12:29:36.935 PM)

Ch1 0.000351 %

Ch2 0.000331 %

THD Ratio (10/11/2023 12:29:36.935 PM)

Ch1 0.000155 %

Ch2 0.000139 %

Noise Ratio (10/11/2023 12:29:36.935 PM)

Ch1 0.000312 %

Ch2 0.000300 %

Distortion Product Ratio (10/11/2023 12:29:36.935 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	-120.99	-125.03	-131.16	-130.77	-133.30	-130.91	-132.03	-134.27	-128.30
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-125.94	-123.96	-132.48	-131.76	-132.12	-137.13	-132.21	-132.38	-129.90

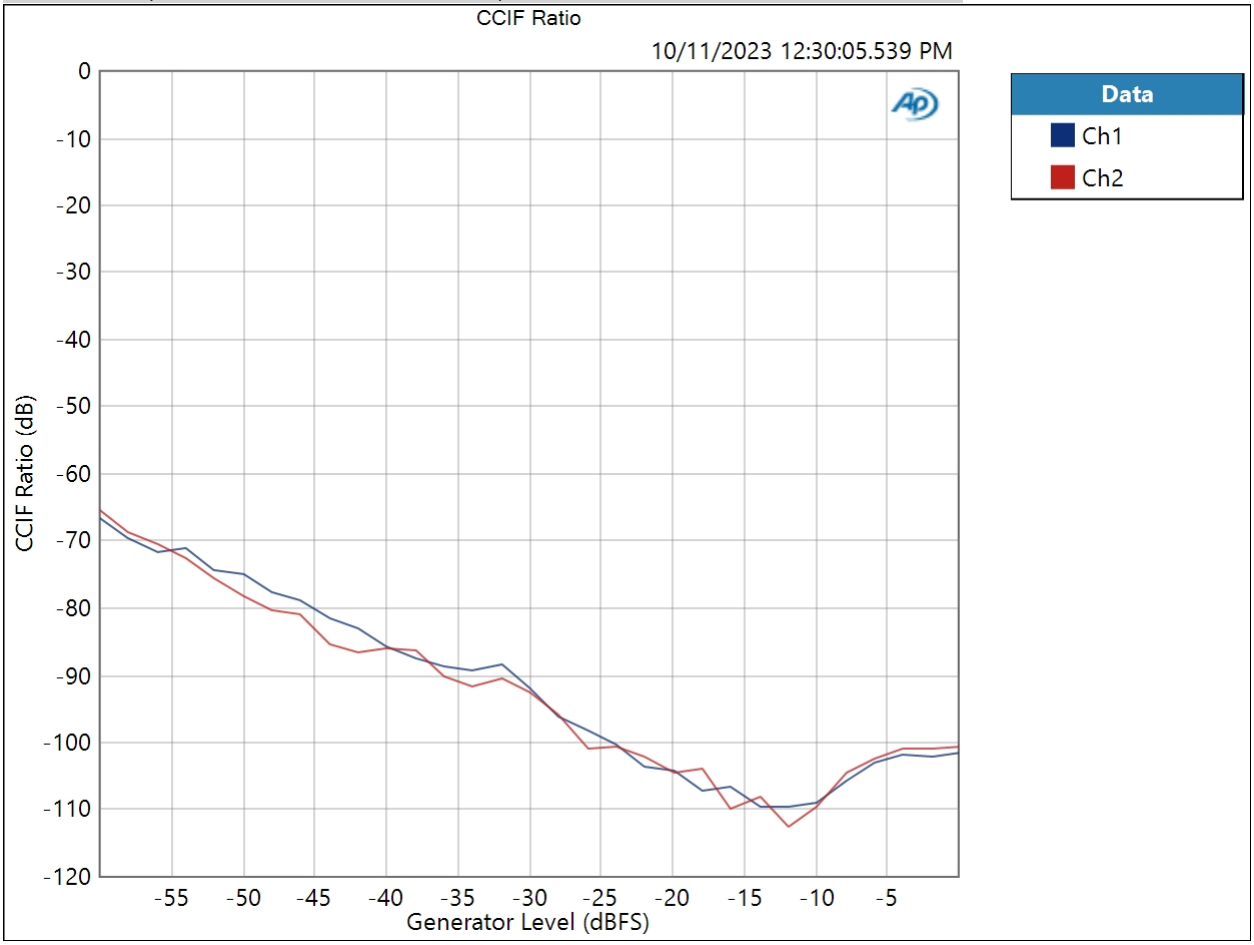
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

Low Gain : 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	10/11/2023 12:30:05 PM

CCIF Ratio (10/11/2023 12:30:05.539 PM)

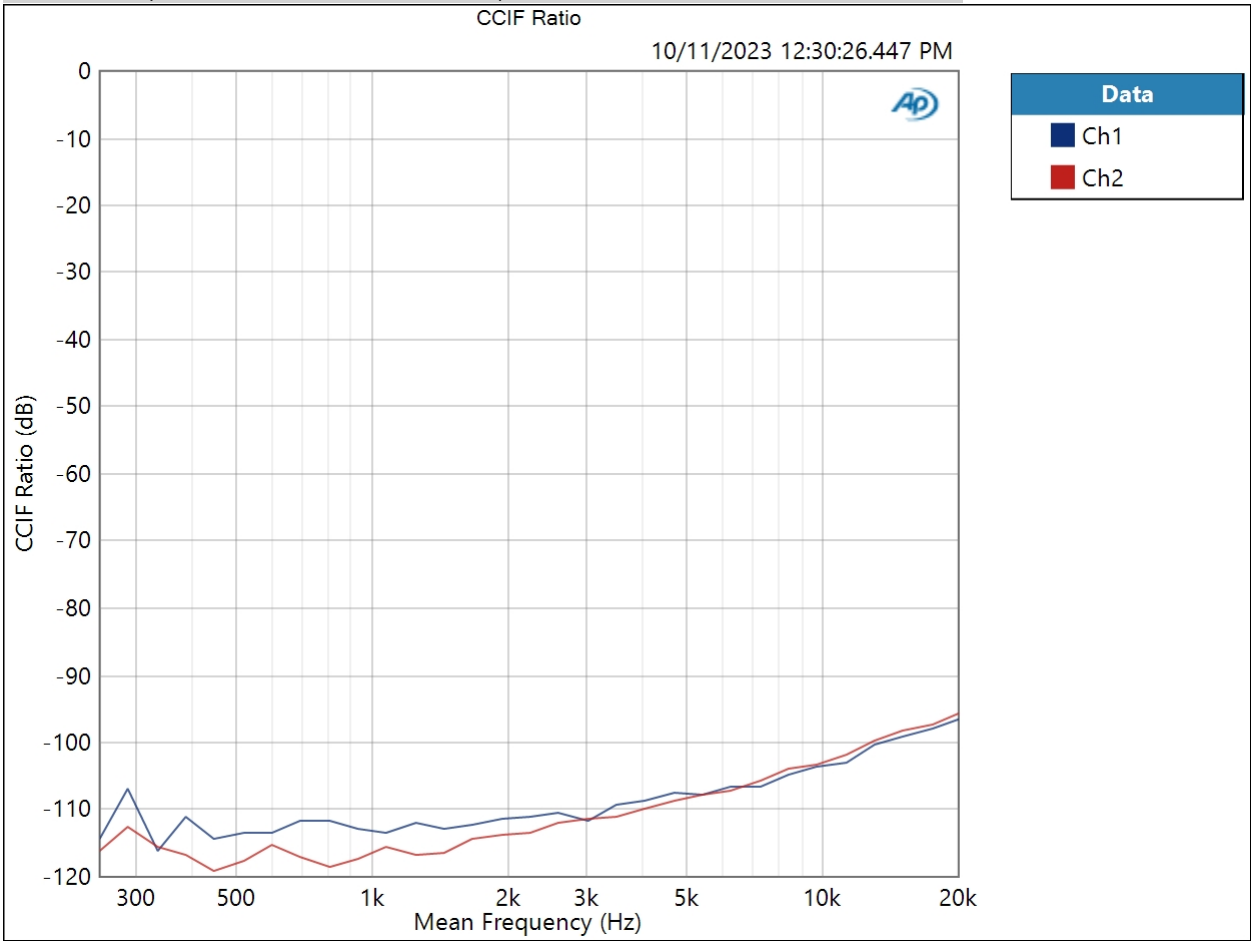


Result: PASSED

Low Gain : 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	10/11/2023 12:30:26 PM

CCIF Ratio (10/11/2023 12:30:26.447 PM)



Result: PASSED

Low Gain : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	10.0000 kHz

Crosstalk (10/11/2023 12:30:29.893 PM)

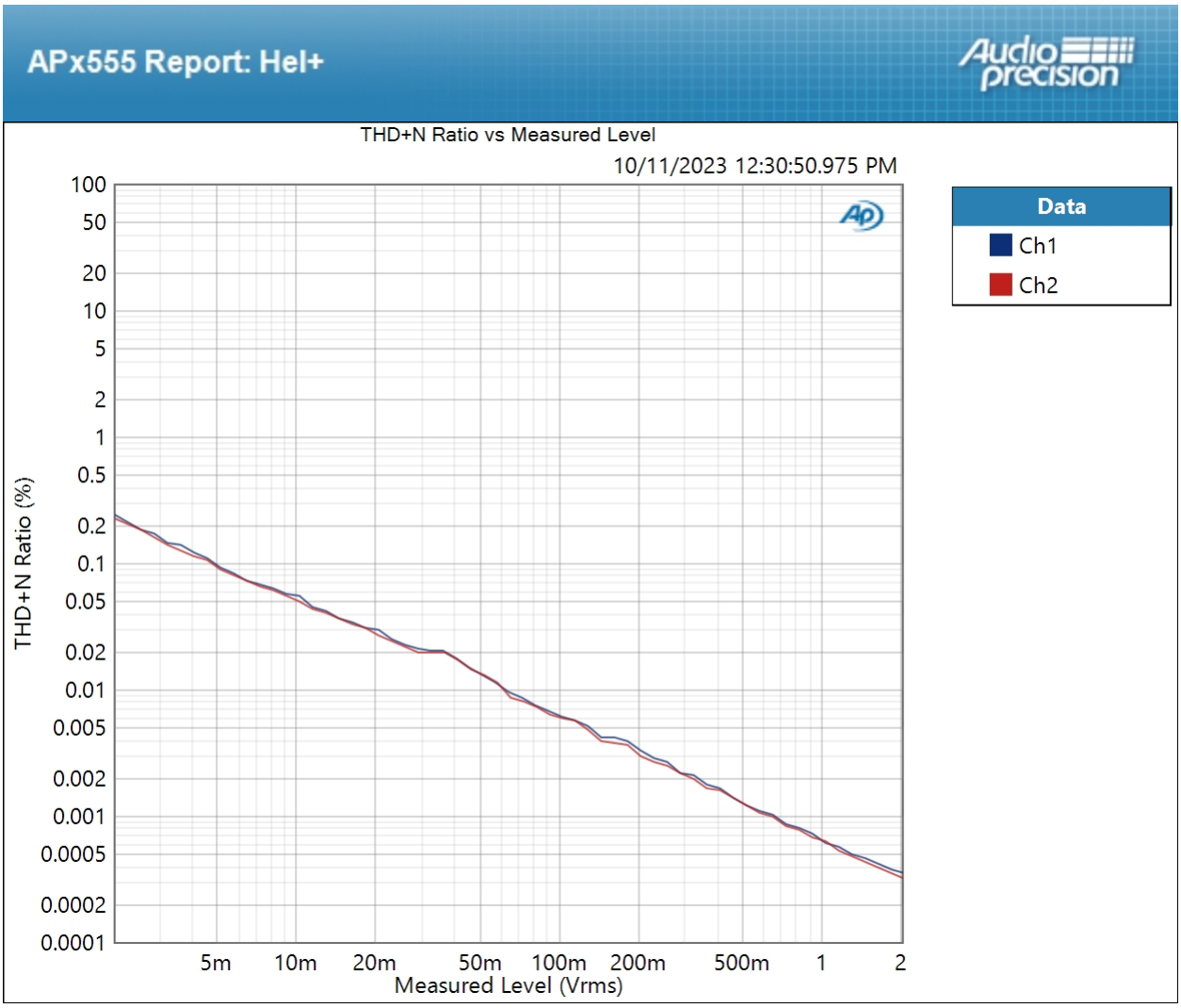
Ch1 -78.257 dB

Ch2 -77.239 dB

Low Gain : Stepped Level Sweep

Waveform:	Sine
Frequency:	1.00000 kHz
Start Level:	-60.000 dBFS
Stop Level:	-0.000 dBFS
Step Type:	Linear
Number of Points:	61
Step Size:	+1.000 dBFS
Offset:	0.000 D
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	10/11/2023 12:30:50 PM

THD+N Ratio vs Measured Level (10/11/2023 12:30:50.975 PM)



Result: PASSED

Negative Gain : Signal Path Setup

Output Connector:	ASIO
Asio Device:	ASIO4ALL v2
Scaling Mode:	Digital
Output Sample Rate:	48.0000 kHz
Output Latency:	Auto
Buffer Size:	256
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:	300 ohm
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
dBSPL1:	10.00 mVrms
dBSPL2:	10.00 mVrms
dBSPL1 Calibrator Level:	94.000 dBSPL
dBSPL2 Calibrator Level:	94.000 dBSPL
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

Negative Gain : 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 (10/11/2023 12:33:29.113 PM)

Ch1 645.4 mVrms
Ch2 647.2 mVrms

Negative Gain : DC Level

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

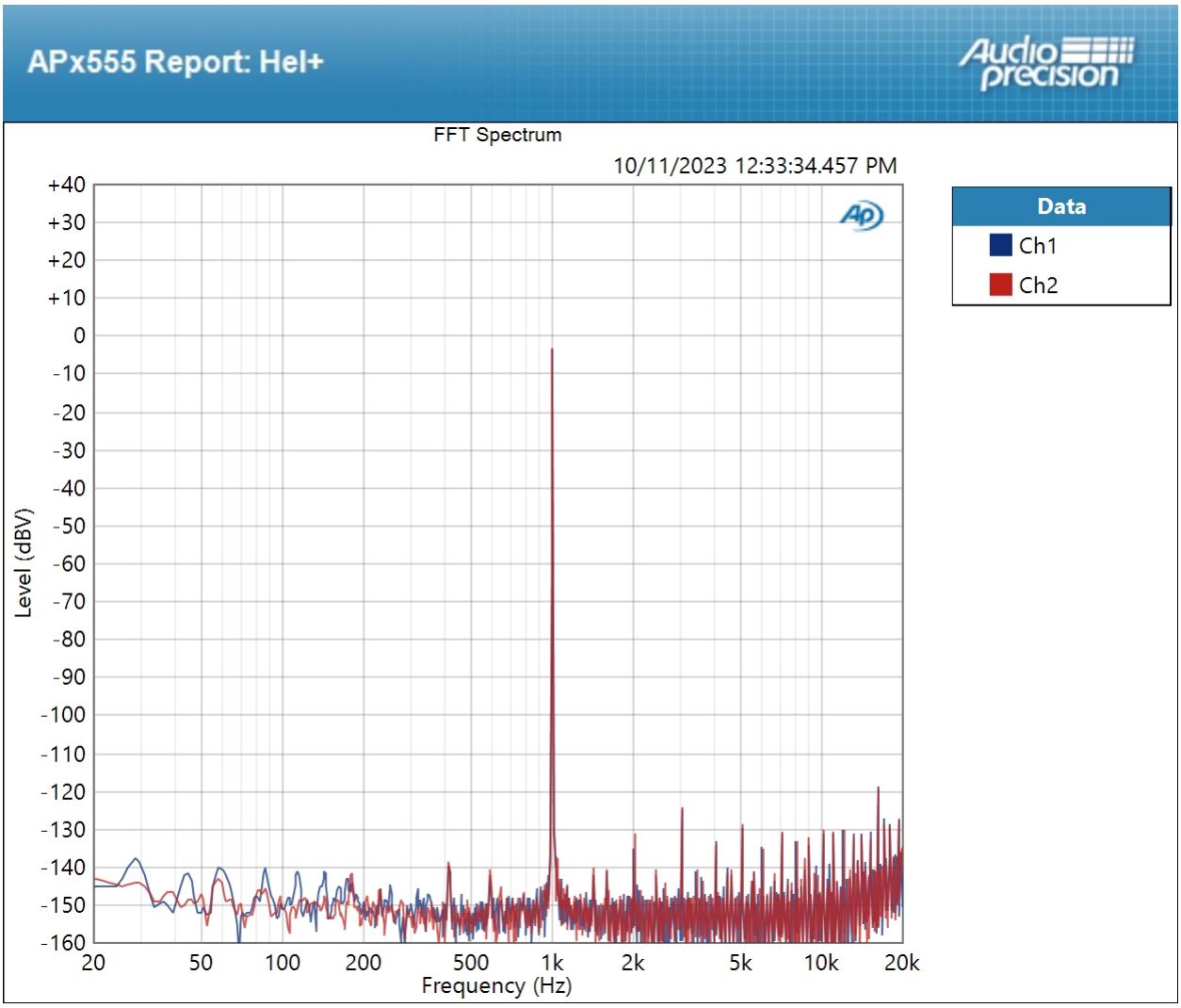
DC Level (10/11/2023 12:33:30.349 PM)

Ch1 -52.02 uV
Ch2 132.3 uV

Negative Gain : Signal Analyzer

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	10/11/2023 12:33:34 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 (10/11/2023 12:33:34.457 PM)

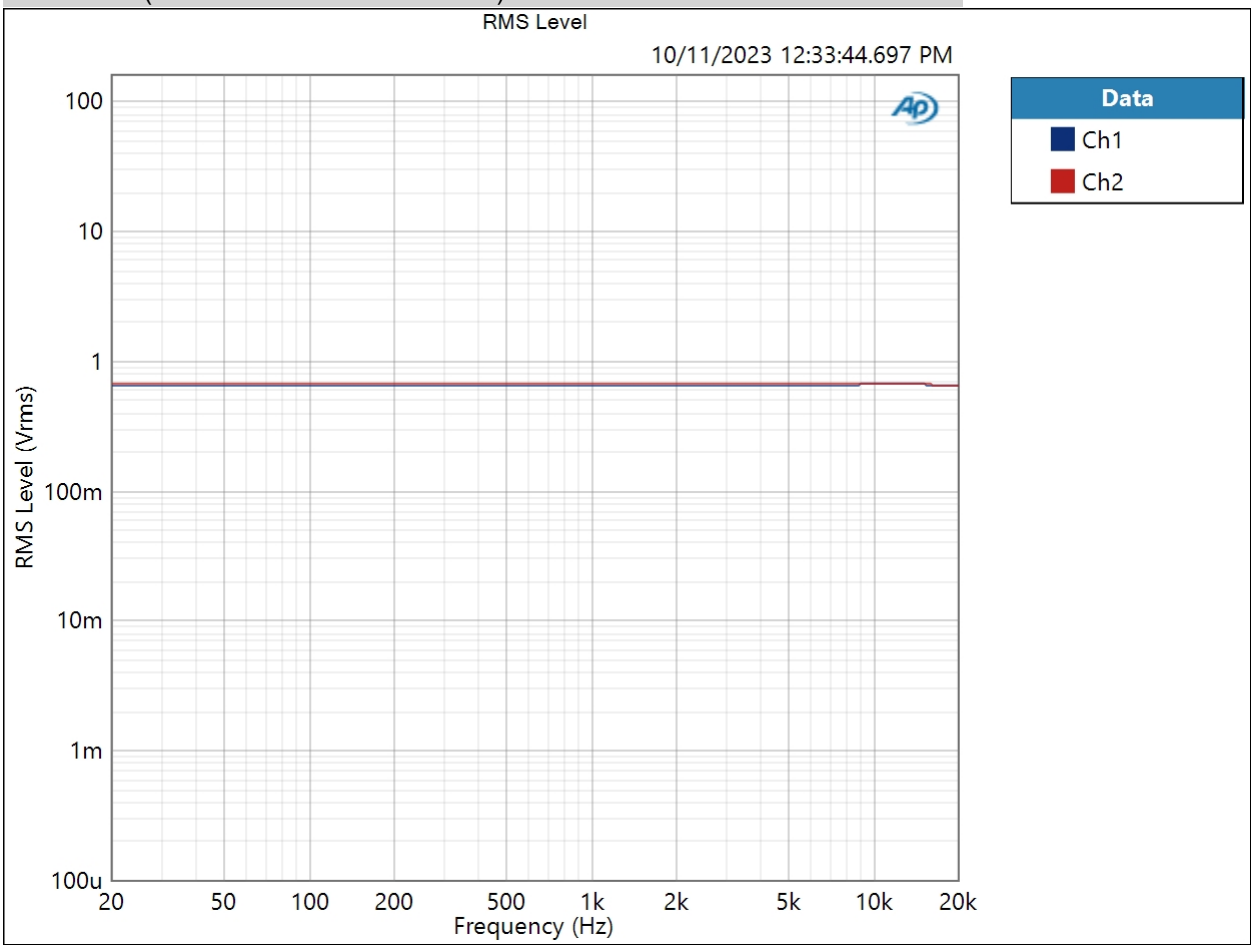


Result: PASSED

Negative Gain : Frequency Response

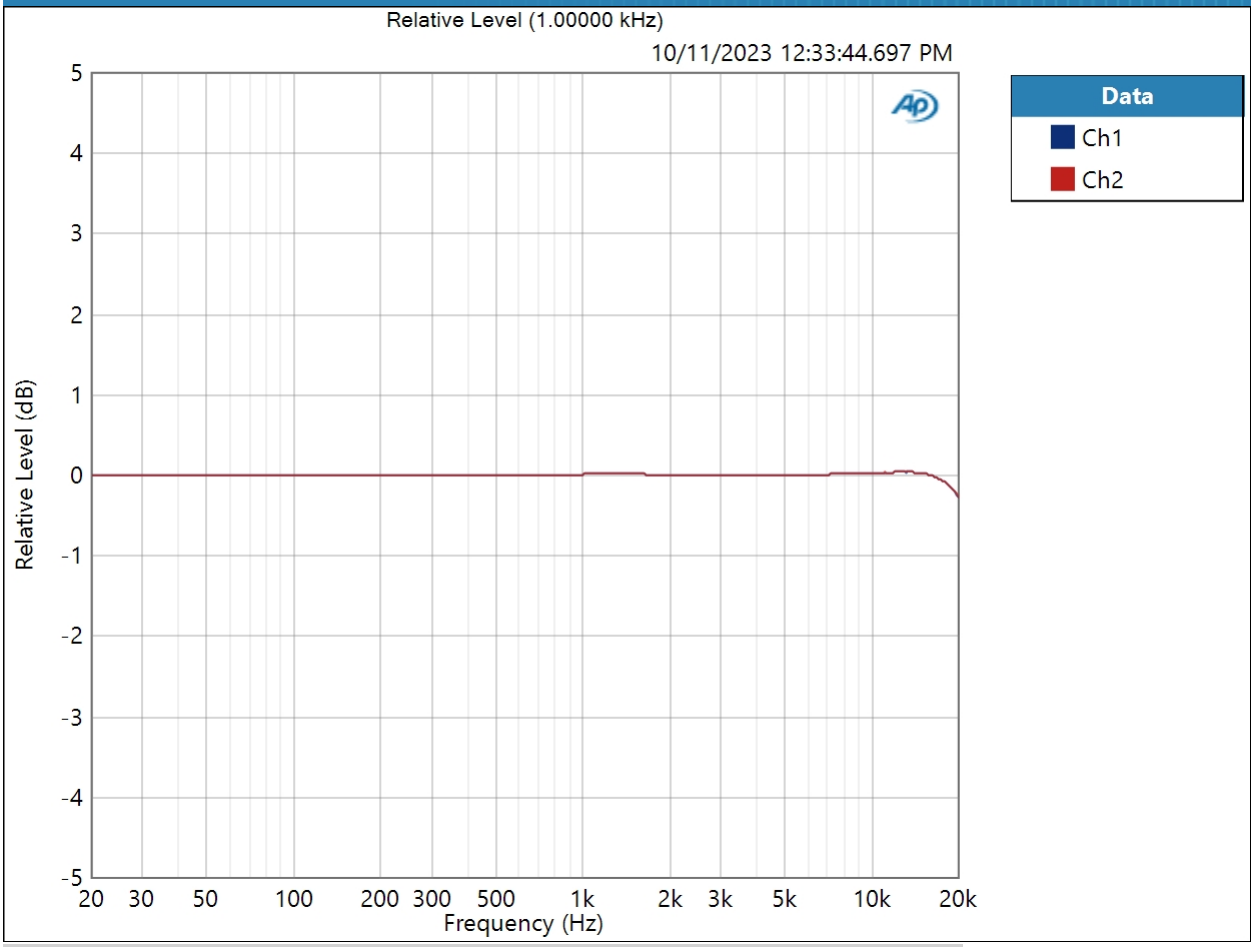
Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
EQ:	None
Pre-Sweep:	500.0 ms
Sweep:	1.000 s
Extend Acquisition By:	3.000 s
Secondary Source:	None
Measured 1	10/11/2023 12:33:44 PM

RMS Level (10/11/2023 12:33:44.697 PM)



Result: PASSED

Relative Level (1.00000 kHz) (10/11/2023 12:33:44.697 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) (10/11/2023 12:33:44.697 PM)

Ch1 ±0.174 dB

Ch2 ±0.173 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Negative Gain : 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 (10/11/2023 12:38:15.913 PM)

Ch1 111.146 dB

Ch2 111.487 dB

Negative Gain : 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 (10/11/2023 12:33:49.618 PM)

Ch1 0.000630 %

Ch2 0.000594 %

THD Ratio (10/11/2023 12:33:49.618 PM)

Ch1 0.000313 %

Ch2 0.000298 %

Noise Ratio (10/11/2023 12:33:49.618 PM)

Ch1 0.000544 %

Ch2 0.000509 %

Distortion Product Ratio (10/11/2023 12:33:49.618 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	-123.83	-118.72	-128.78	-130.92	-129.78	-131.00	-119.09	-126.25	-126.92
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-126.25	-119.46	-130.75	-127.95	-131.95	-133.14	-119.58	-125.61	-127.94

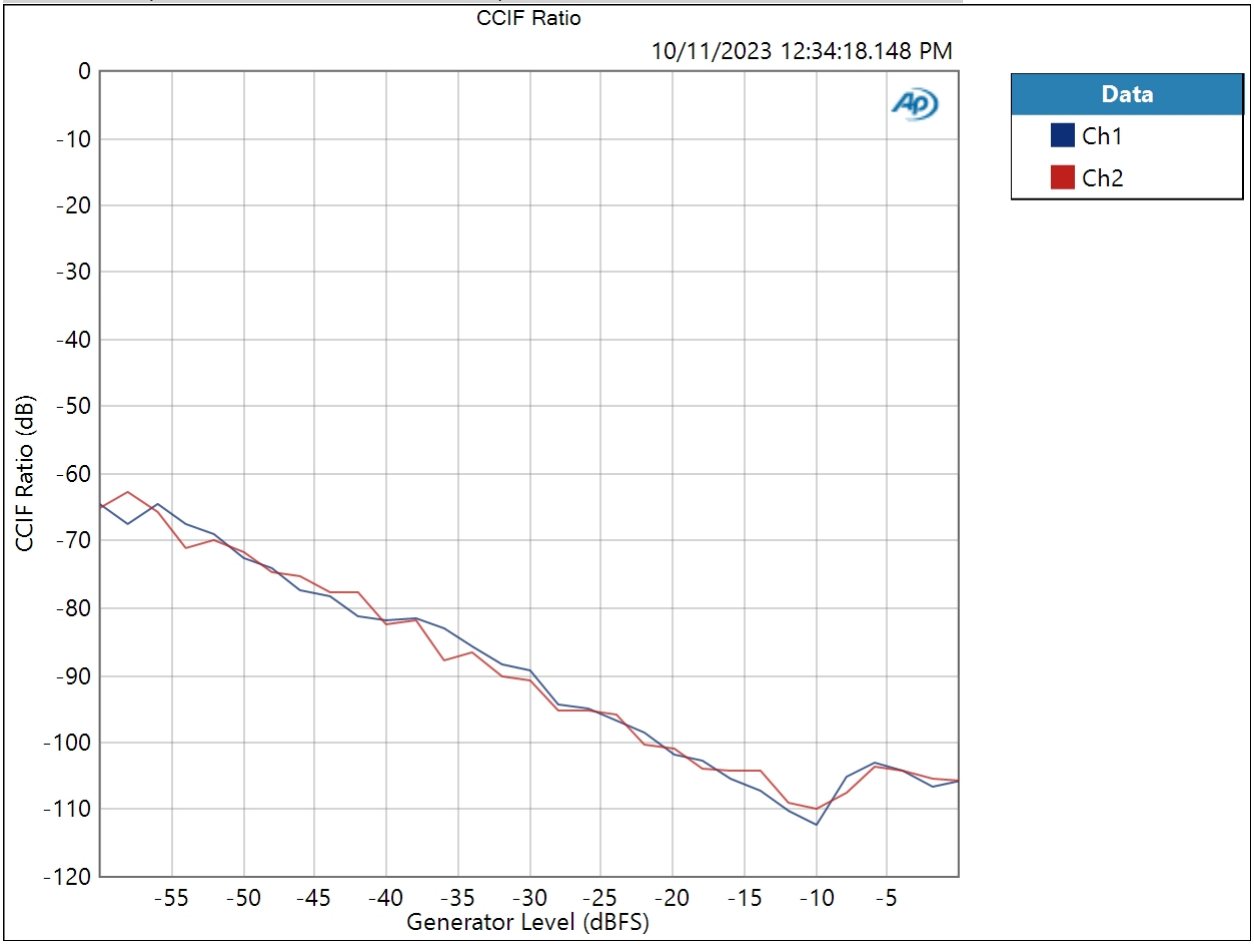
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

Negative Gain : 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	10/11/2023 12:34:18 PM

CCIF Ratio (10/11/2023 12:34:18.148 PM)

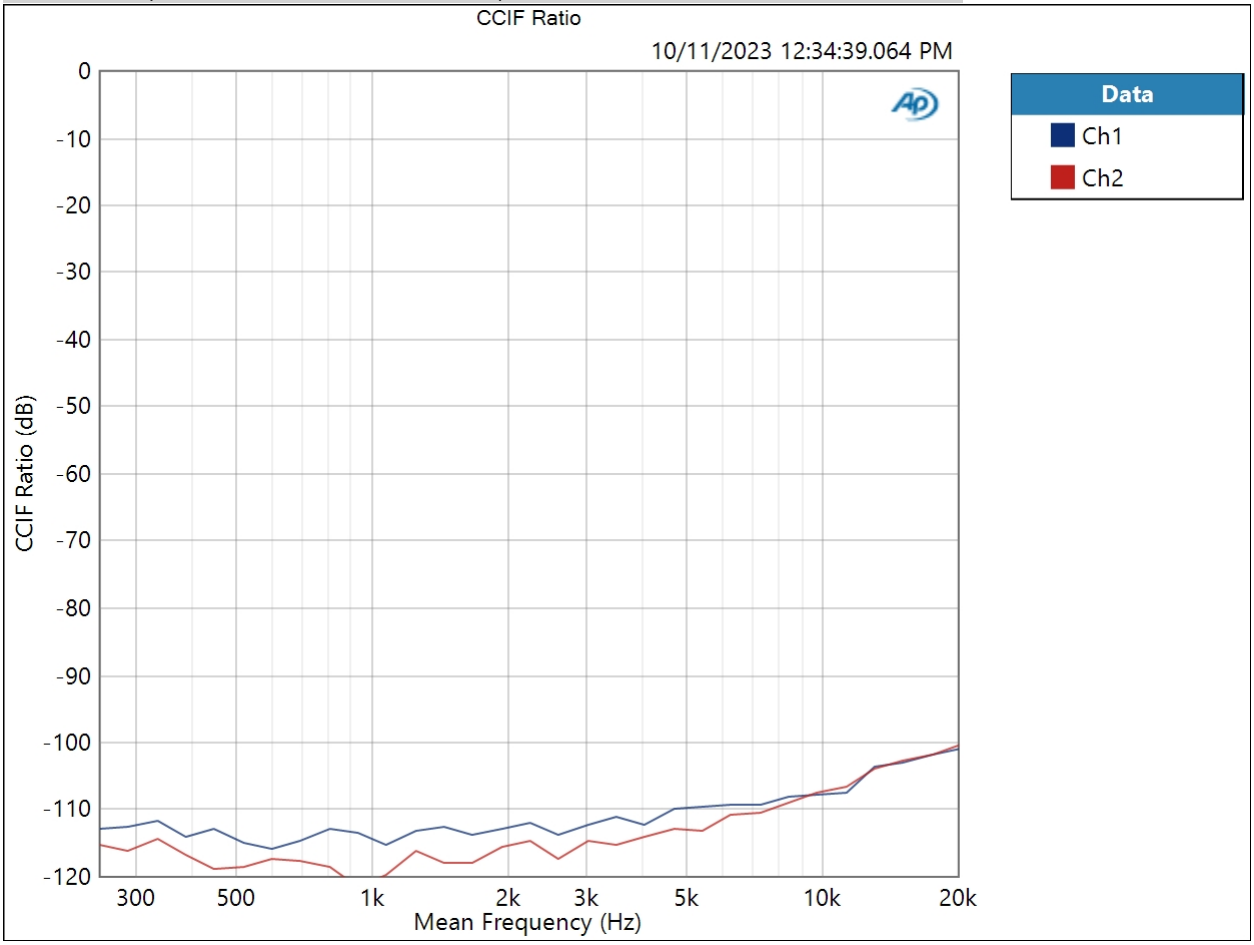


Result: PASSED

Negative Gain : 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	10/11/2023 12:34:39 PM

CCIF Ratio (10/11/2023 12:34:39.064 PM)



Result: PASSED

Negative Gain : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	10.0000 kHz

Crosstalk (10/11/2023 12:34:42.289 PM)

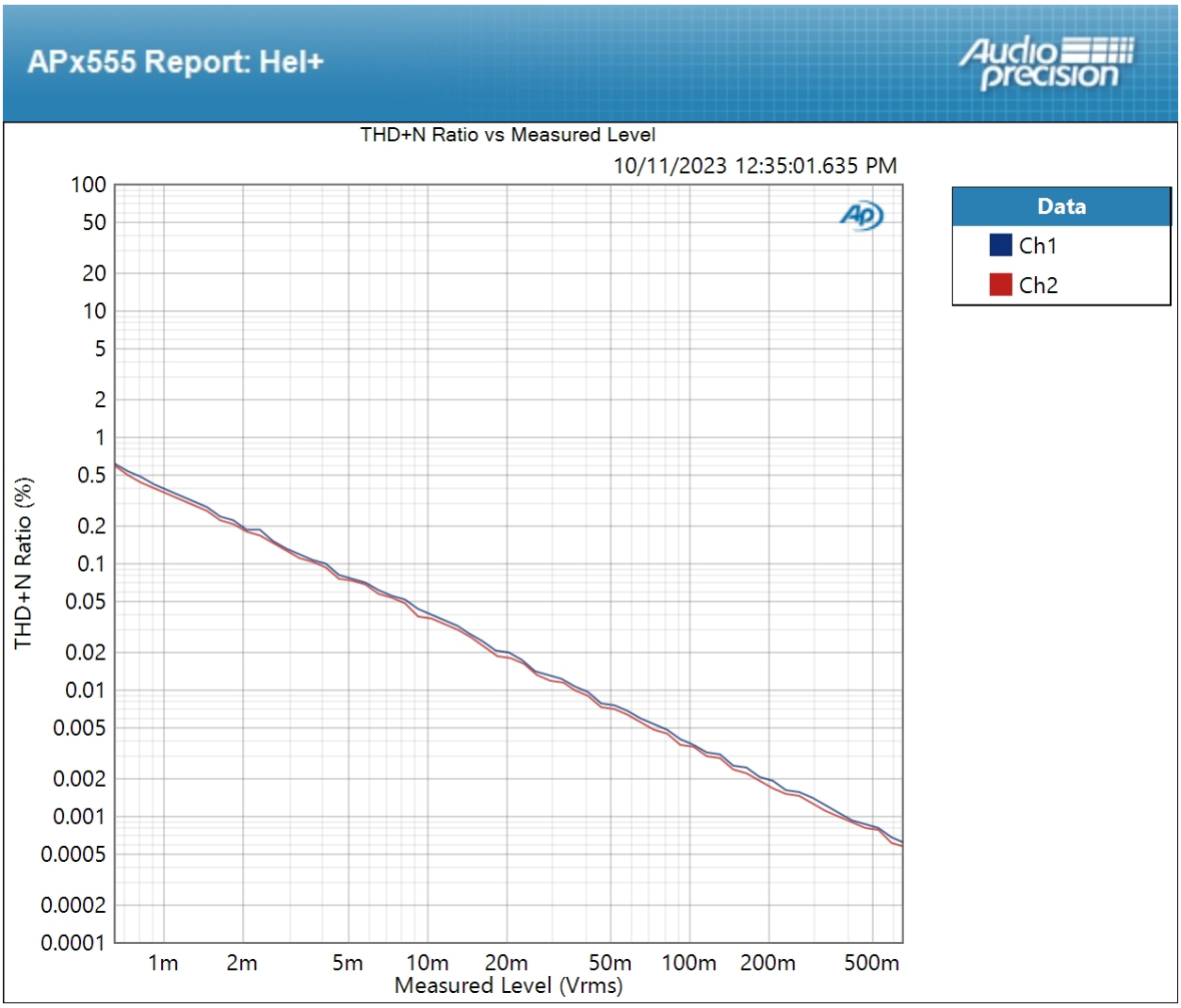
Ch1 -78.537 dB

Ch2 -77.460 dB

Negative Gain : Stepped Level Sweep

Waveform:	Sine
Frequency:	1.00000 kHz
Start Level:	-60.000 dBFS
Stop Level:	-0.000 dBFS
Step Type:	Linear
Number of Points:	61
Step Size:	+1.000 dBFS
Offset:	0.000 D
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	10/11/2023 12:35:01 PM

THD+N Ratio vs Measured Level (10/11/2023 12:35:01.635 PM)



Result: PASSED

High Gain : Signal Path Setup

Output Connector:	ASIO
Asio Device:	ASIO4ALL v2
Scaling Mode:	Digital
Output Sample Rate:	48.0000 kHz
Output Latency:	Auto
Buffer Size:	256
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:	300 ohm
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
dBSPL1:	10.00 mVrms
dBSPL2:	10.00 mVrms
dBSPL1 Calibrator Level:	94.000 dBSPL
dBSPL2 Calibrator Level:	94.000 dBSPL
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

High Gain : Level and Gain

Waveform:	Sine
Generator Level:	-16.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

RMS Level (10/11/2023 12:39:37.541 PM)

Ch1 2.009 Vrms
Ch2 2.015 Vrms

High Gain : DC Level

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

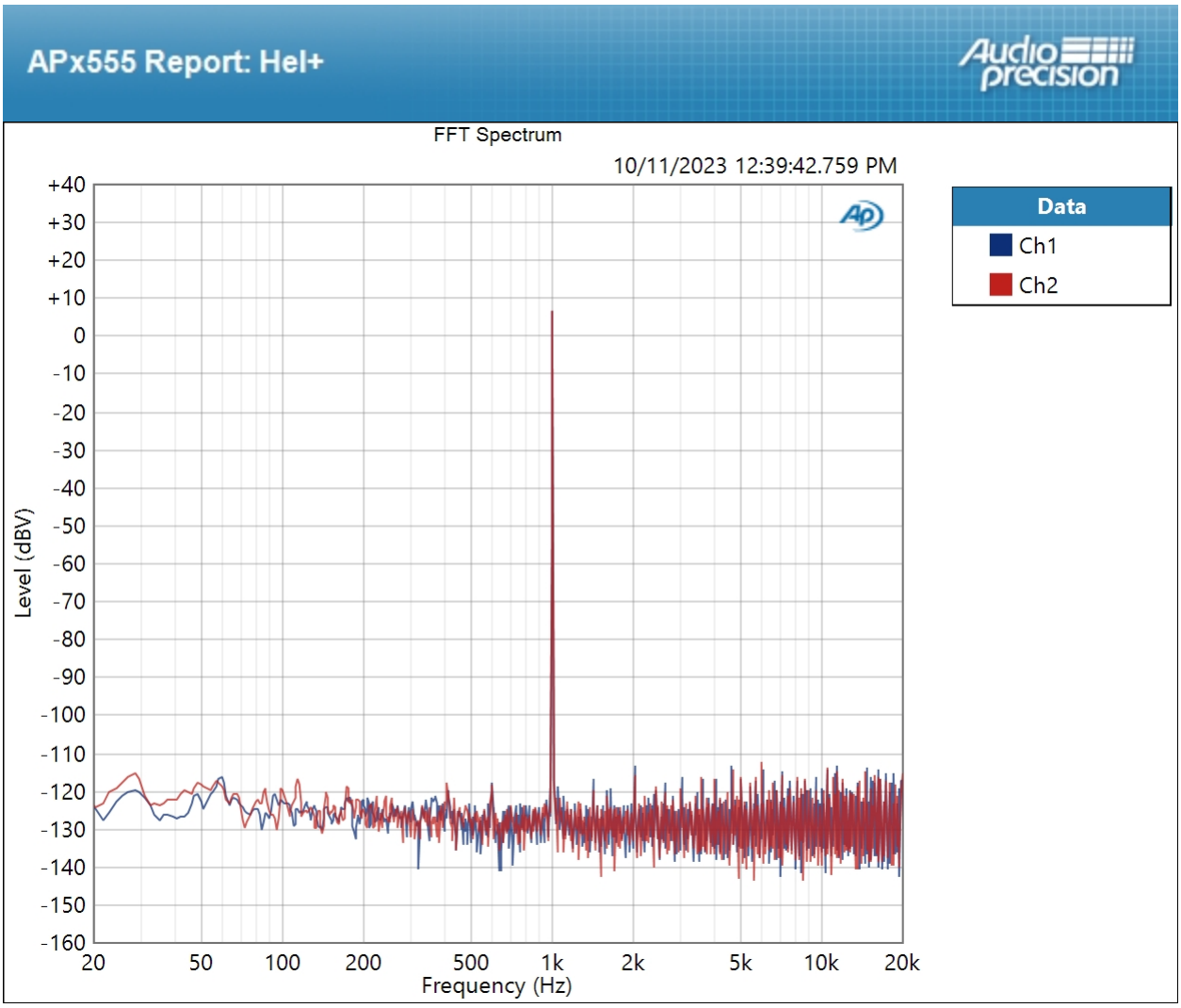
DC Level (10/11/2023 12:39:38.742 PM)

Ch1 574.4 uV
Ch2 2.558 mV

High Gain : Signal Analyzer

Waveform:	Sine
Generator Level:	-16.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	10/11/2023 12:39:42 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 (10/11/2023 12:39:42.759 PM)

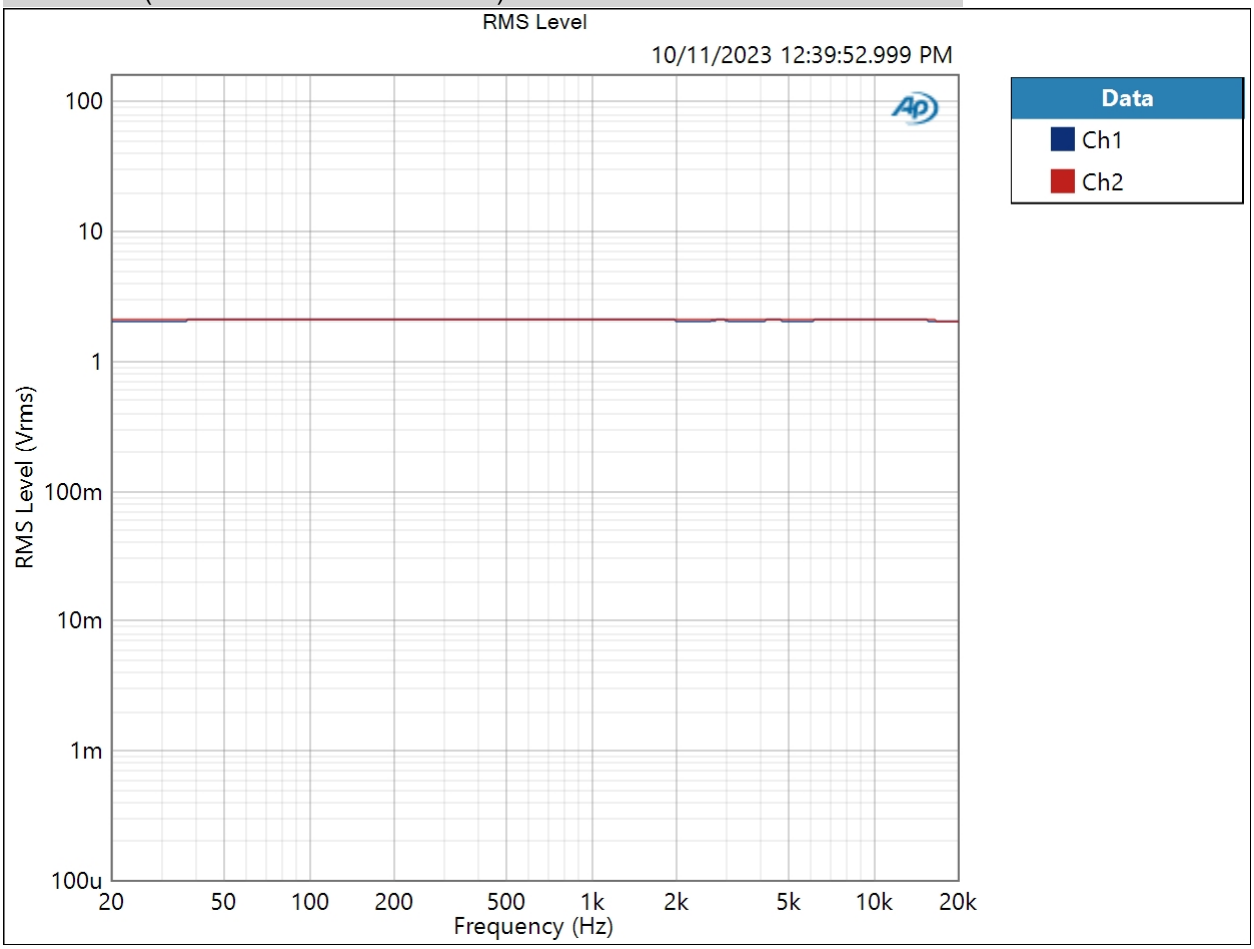


Result: PASSED

High Gain : Frequency Response

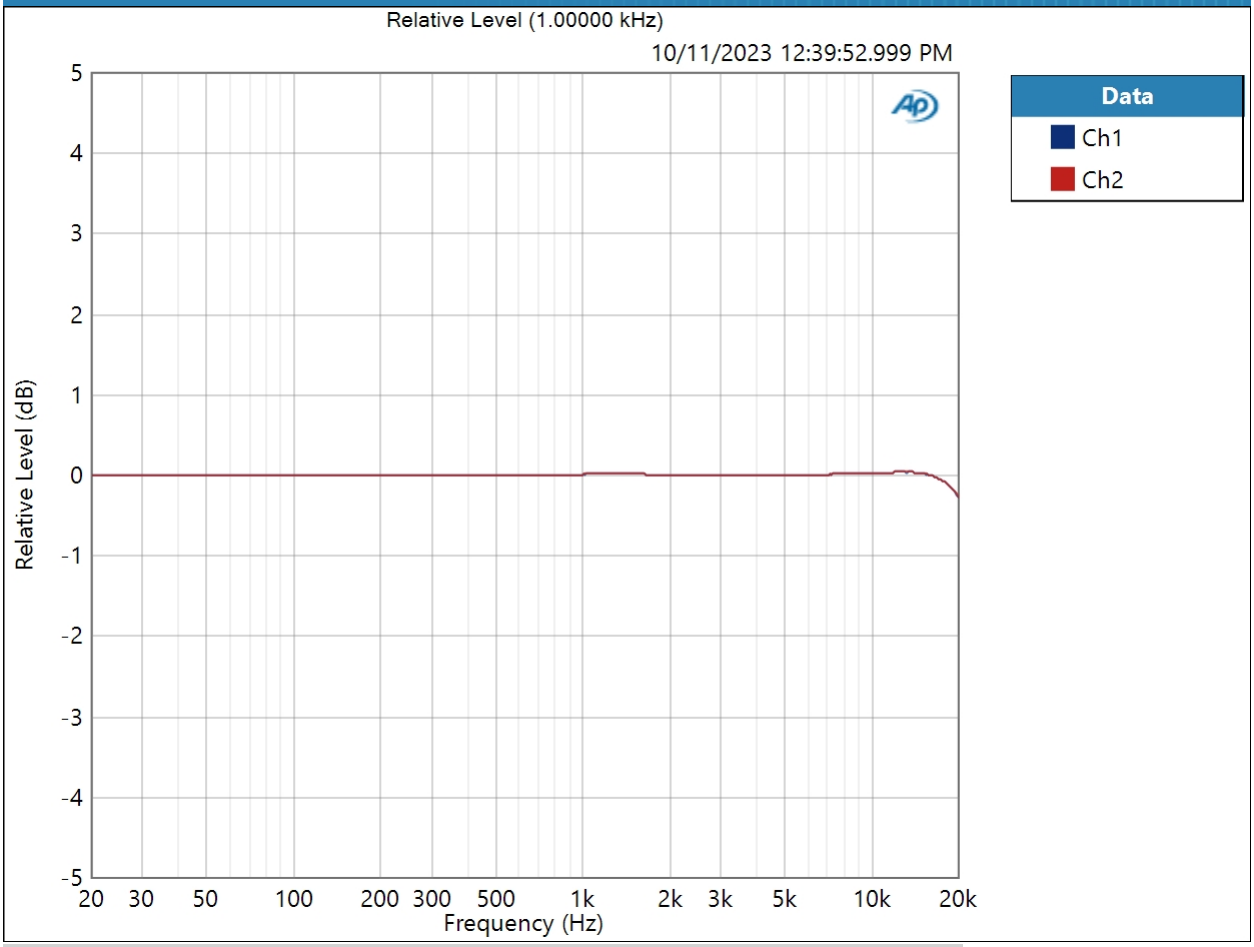
Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	-16.000 dBFS
DC Offset:	0.000 D
EQ:	None
Pre-Sweep:	500.0 ms
Sweep:	1.000 s
Extend Acquisition By:	3.000 s
Secondary Source:	None
Measured 1	10/11/2023 12:39:52 PM

RMS Level (10/11/2023 12:39:52.999 PM)



Result: PASSED

Relative Level (1.00000 kHz) (10/11/2023 12:39:52.999 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) (10/11/2023 12:39:52.999 PM)

Ch1 ±0.174 dB

Ch2 ±0.174 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

High Gain : Signal to Noise Ratio

Waveform:	Sine
Generator Level:	-16.000 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 (10/11/2023 12:39:55.137 PM)

Ch1 101.203 dB

Ch2 100.890 dB

High Gain : THD+N

Waveform:	Sine
Generator Level:	-16.000 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 (10/11/2023 12:39:57.792 PM)

Ch1 0.001730 %

Ch2 0.001649 %

THD Ratio (10/11/2023 12:39:57.792 PM)

Ch1 0.000504 %

Ch2 0.000443 %

Noise Ratio (10/11/2023 12:39:57.792 PM)

Ch1 0.001664 %

Ch2 0.001573 %

Distortion Product Ratio (10/11/2023 12:39:57.792 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	-121.37	-120.58	-115.95	-121.80	-116.31	-122.32	-122.77	-123.65	-115.22
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-117.09	-115.47	-117.22	-121.26	-124.85	-117.96	-121.11	-123.77	-119.74

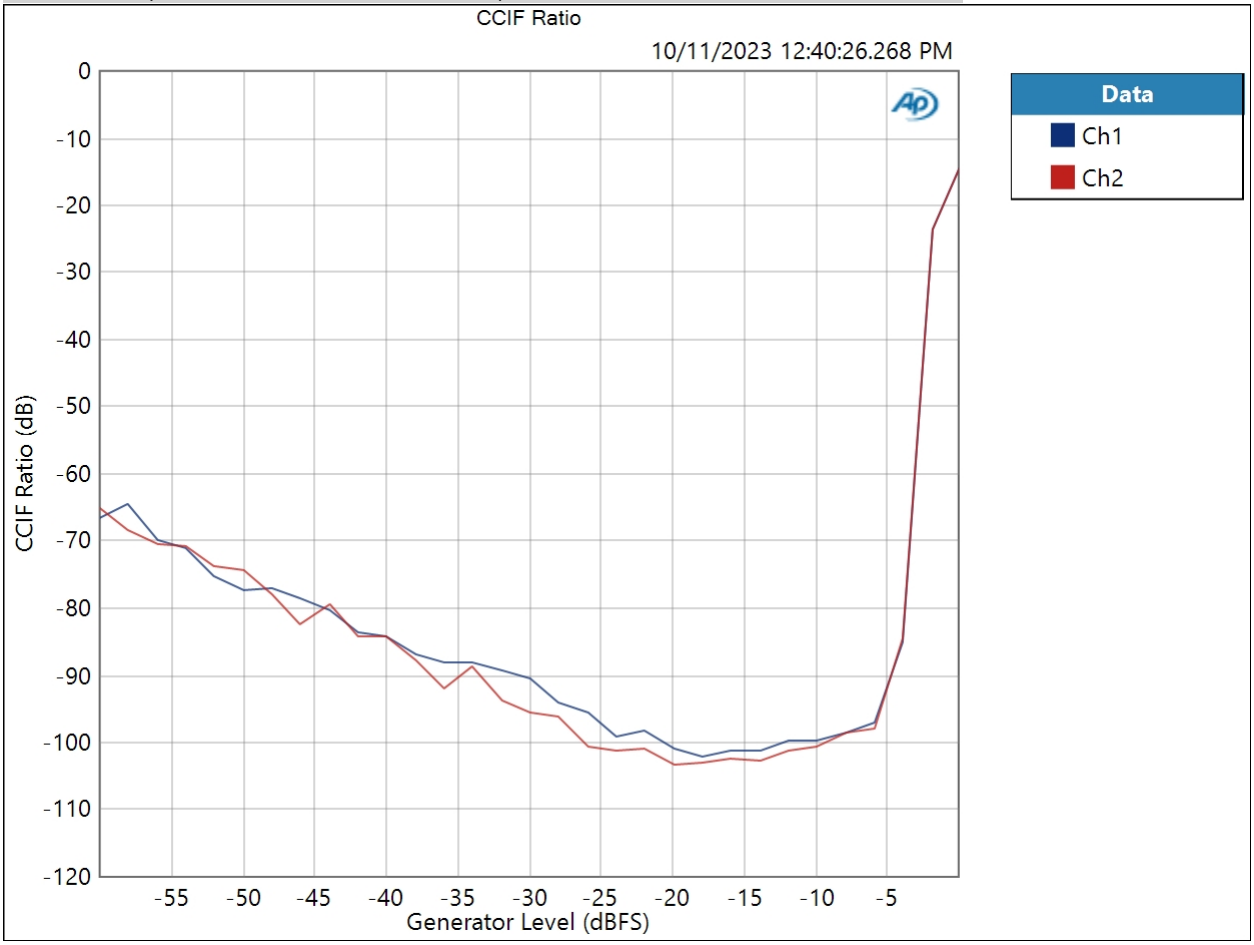
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB
Channel:	Ch1

High Gain : 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	10/11/2023 12:40:26 PM

CCIF Ratio (10/11/2023 12:40:26.268 PM)

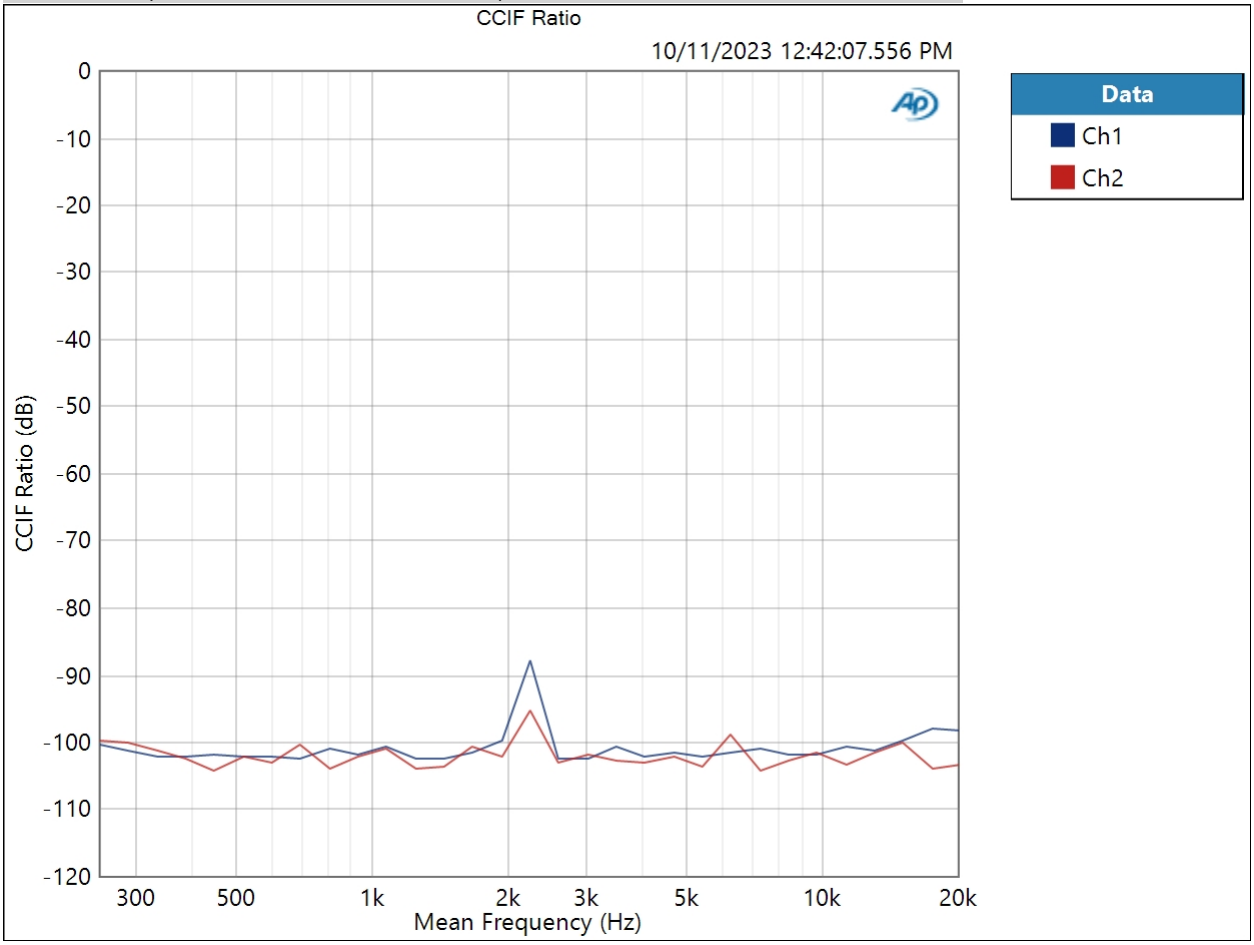


Result: PASSED

High Gain : IMD Frequency Sweep (CCIF)

Generator Level:	-16.000 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	10/11/2023 12:42:07 PM

CCIF Ratio (10/11/2023 12:42:07.556 PM)



Result: PASSED

High Gain : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Level:	-16.000 dBFS
DC Offset:	0.000 D
Frequency:	10.0000 kHz

Crosstalk (10/11/2023 12:40:50.745 PM)

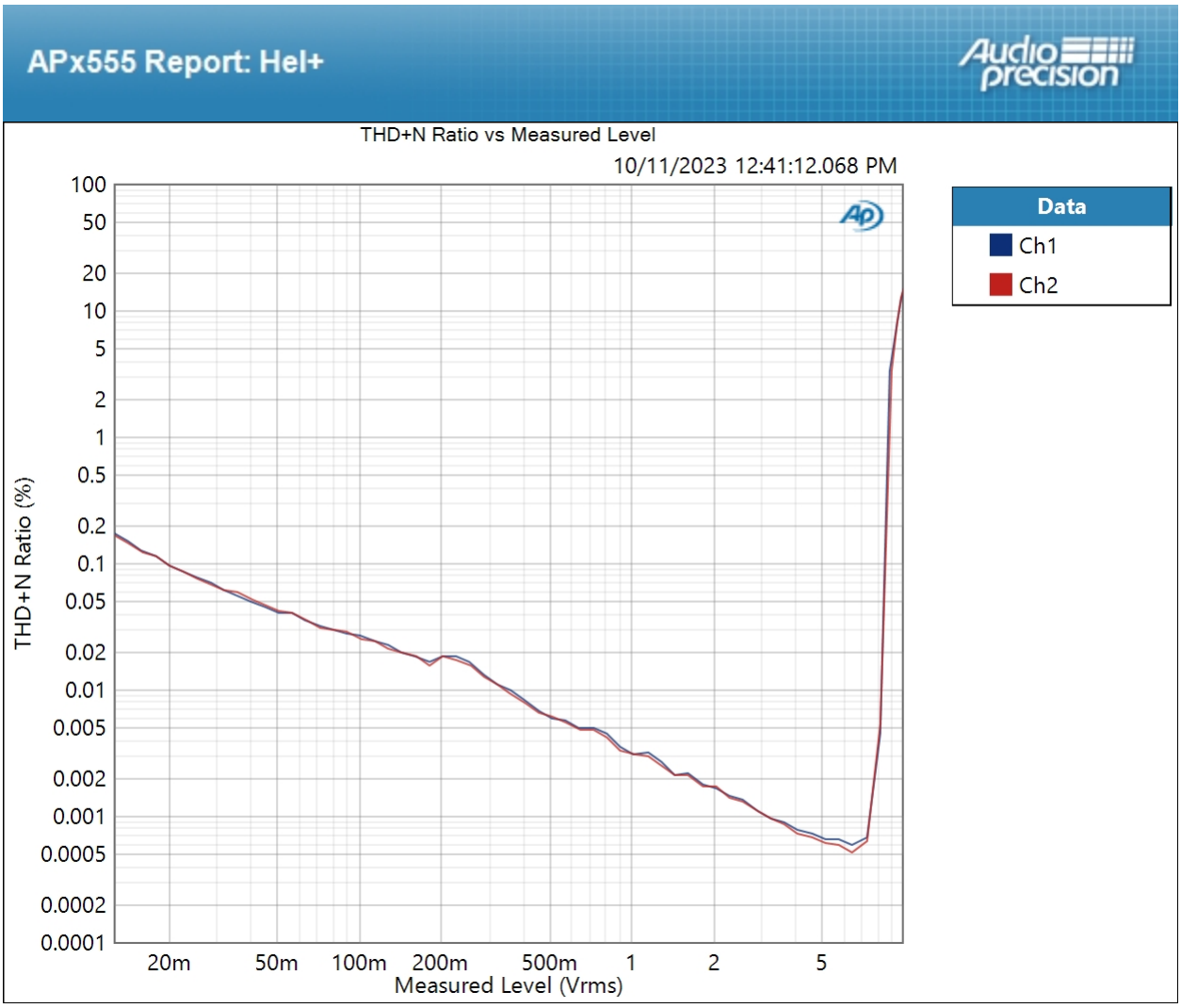
Ch1 -77.210 dB

Ch2 -76.108 dB

High Gain : Stepped Level Sweep

Waveform:	Sine
Frequency:	1.00000 kHz
Start Level:	-60.000 dBFS
Stop Level:	-0.000 dBFS
Step Type:	Linear
Number of Points:	61
Step Size:	+1.000 dBFS
Offset:	0.000 D
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	10/11/2023 12:41:12 PM

THD+N Ratio vs Measured Level (10/11/2023 12:41:12.068 PM)

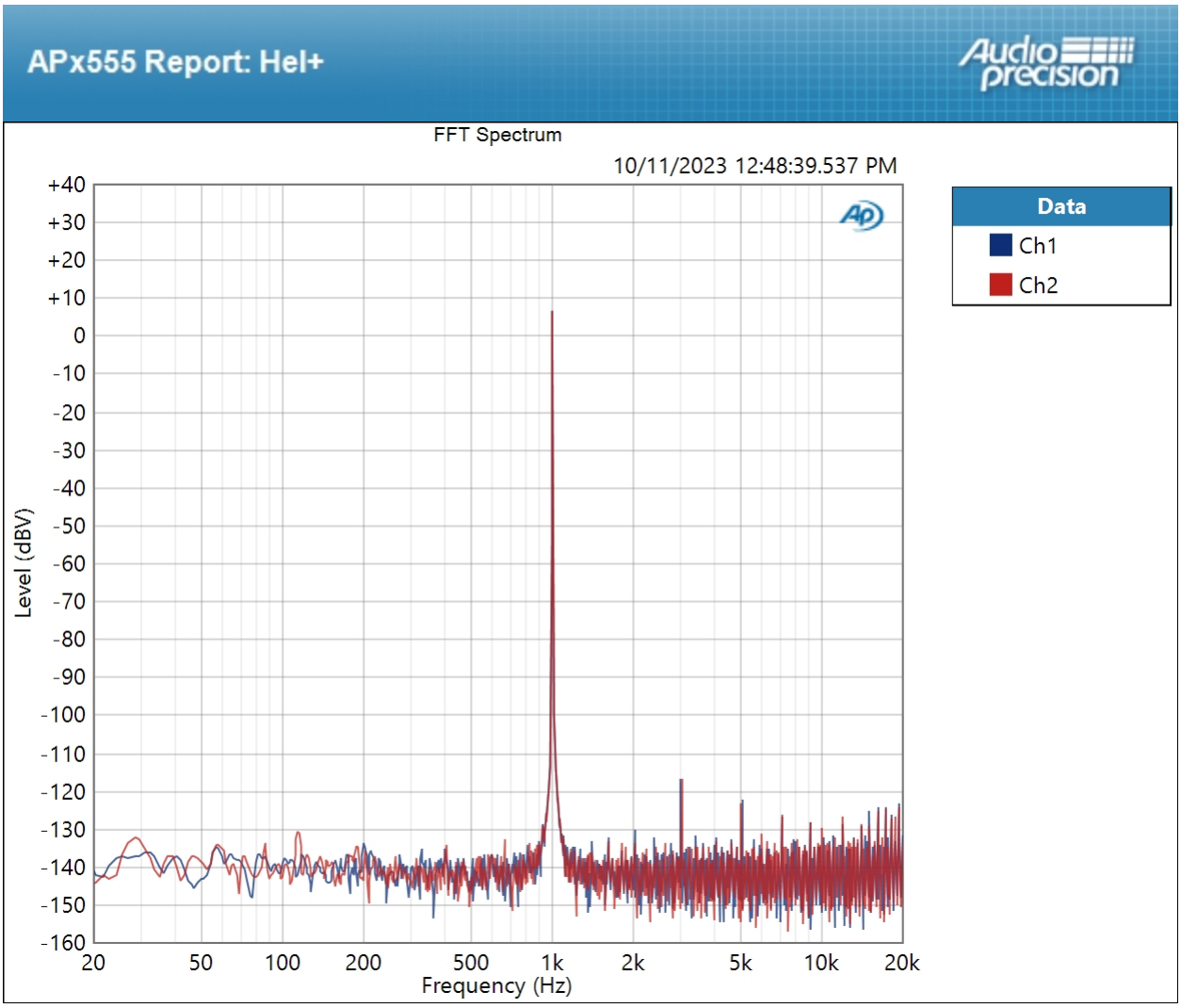


Result: PASSED

Optical : Signal Analyzer

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	10/11/2023 12:48:39 PM
Acquisition Type:	Auto
Trigger:	Free Run
Delay Time:	500.0 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 (10/11/2023 12:48:39.537 PM)

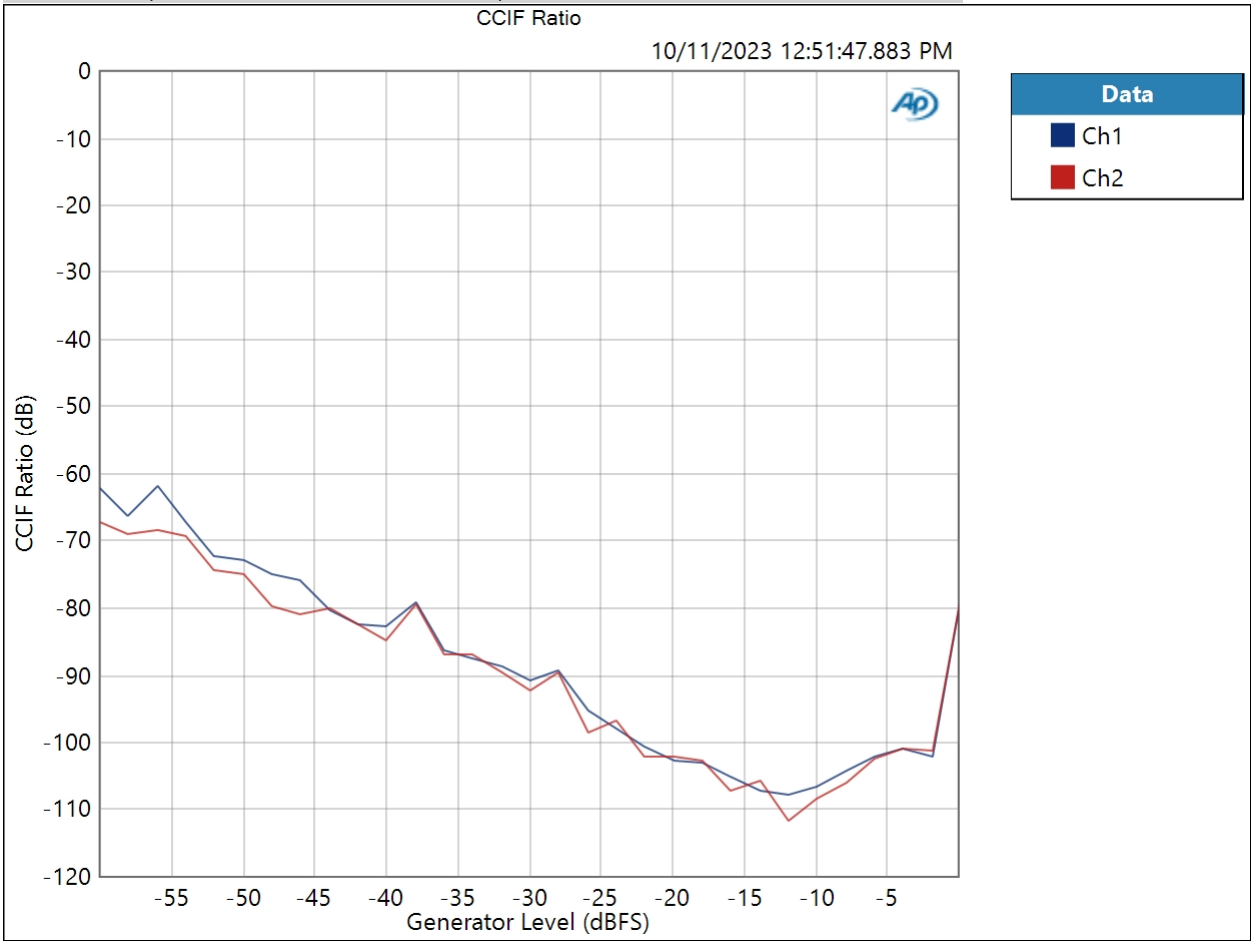


Result: PASSED

Optical : 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	10/11/2023 12:51:47 PM

CCIF Ratio (10/11/2023 12:51:47.883 PM)



Result: PASSED

Optical : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Level:	-0.000 dBFS
DC Offset:	0.000 D
Frequency:	10.0000 kHz

Crosstalk (10/11/2023 12:59:44.156 PM)

Ch1 -96.219 dB

Ch2 -82.344 dB