Schiit Amp APx555 Standard Test Suite: Jotunheim 2

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@schiit.com so we can have a look.

Summary

300 Ohm Low Balanced	
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 Balanced	
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 Balanced	
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 Balanced	

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 Low SE	
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 SE	
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 SE	
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 SE	
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 Balanced	
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 SE	
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:	5/8/2018
APx Version:	5.0.0.105.133644

300 Ohm Low Balanced : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

300 Ohm Low Balanced : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 3:04:01.677 PM)

Ch1 3.987 Vrms
Ch2 3.987 Vrms

300 Ohm Low Balanced : 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

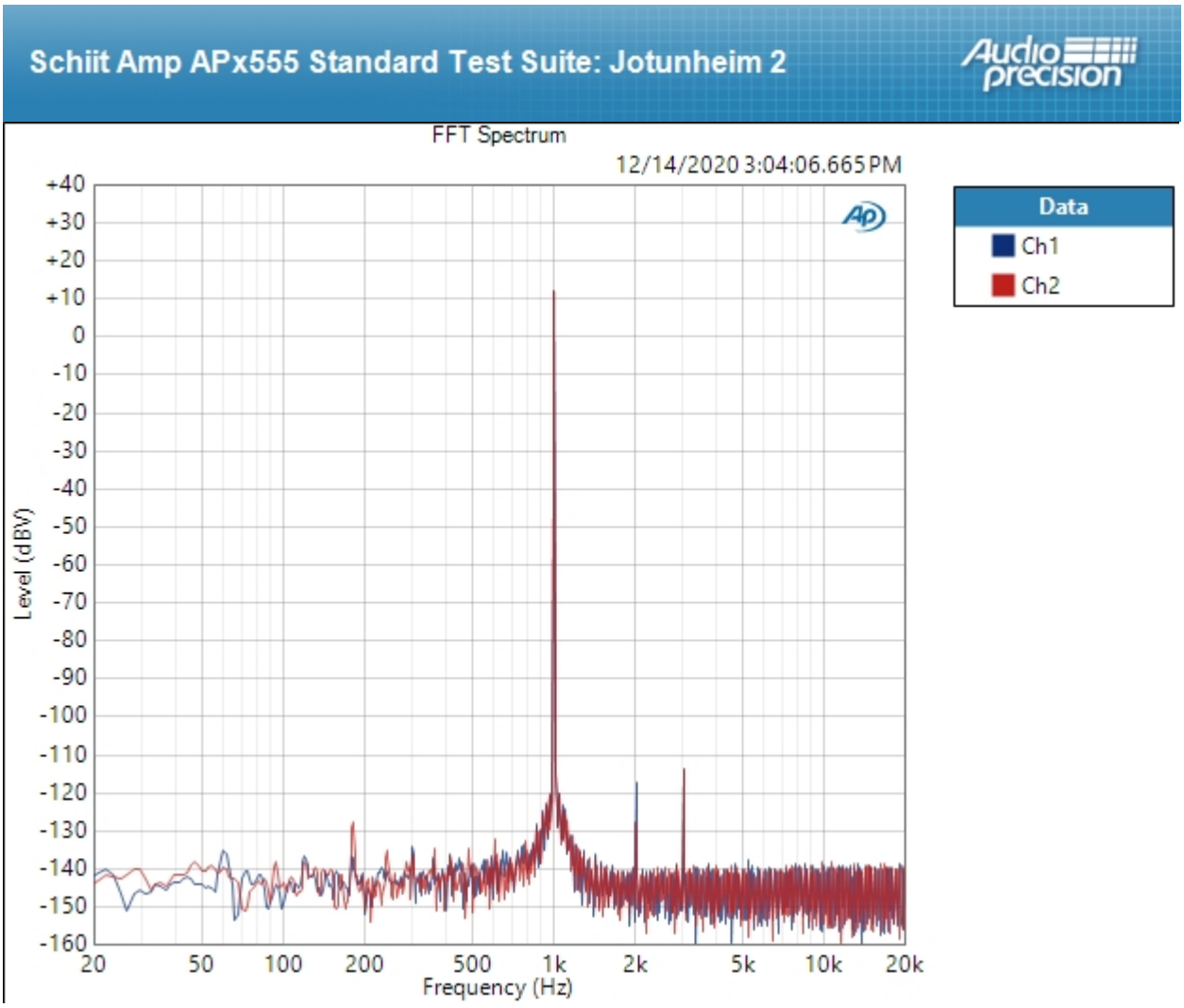
DC Level (12/14/2020 3:04:02.896 PM)

Ch1 -1.645 mV
Ch2 414.2 uV

300 Ohm Low Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 3:04:06 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 (12/14/2020 3:04:06.665 PM)

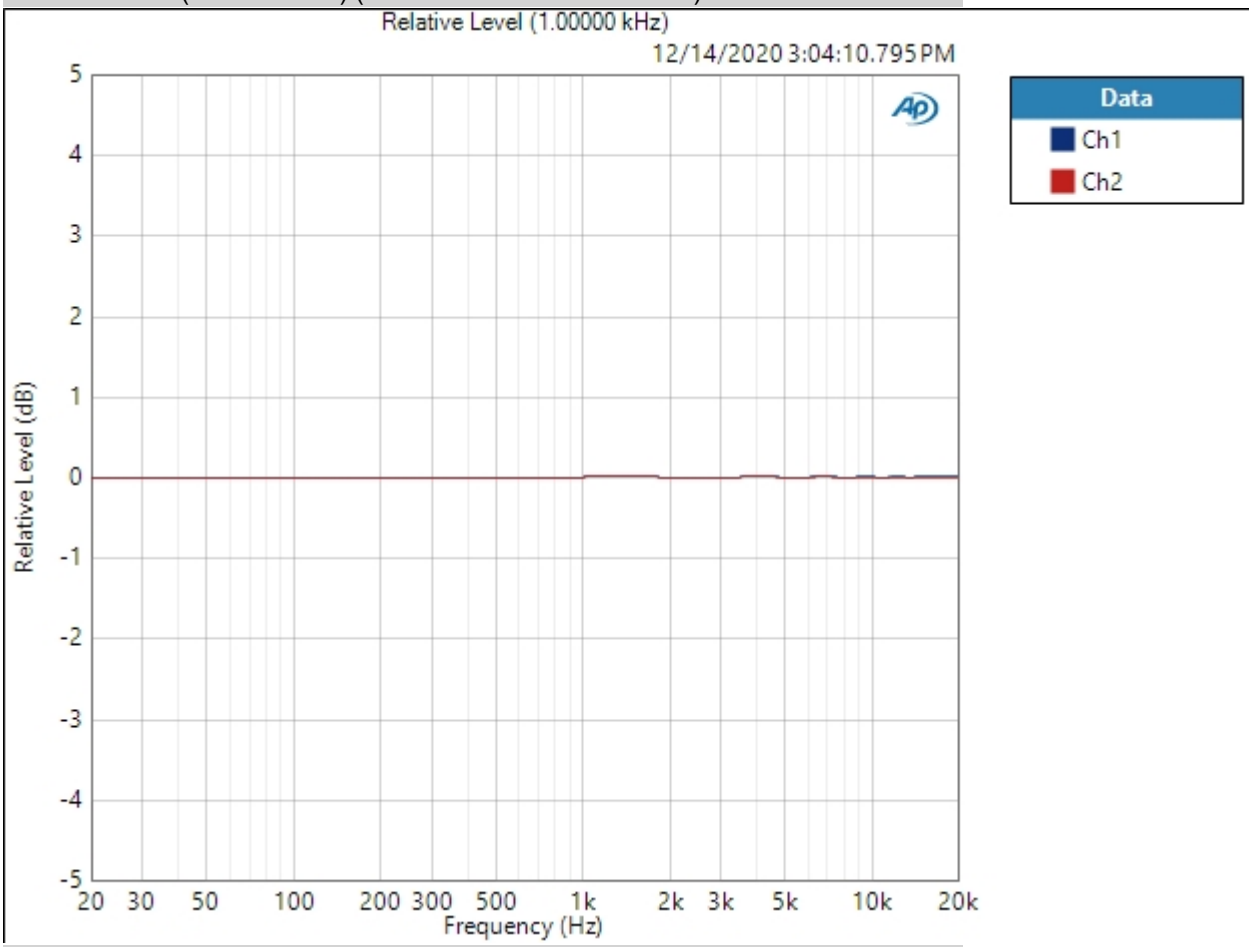


Result: PASSED

300 Ohm Low Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	2.000 Vrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 3:04:10 PM

Relative Level (1.00000 kHz) (12/14/2020 3:04:10.795 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) (12/14/2020 3:04:10.795 PM)

Ch1 ±0.004 dB

Ch2 ±0.003 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm Low Balanced : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 3:04:12.844 PM)

Ch1 124.692 dB

Ch2 124.481 dB

300 Ohm Low Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 3:04:15.034 PM)

Ch1	0.000125 %
Ch2	0.000121 %

THD Ratio (12/14/2020 3:04:15.034 PM)

Ch1	0.000067 %
Ch2	0.000058 %

Noise Ratio (12/14/2020 3:04:15.034 PM)

Ch1	0.000104 %
Ch2	0.000108 %

Distortion Product Ratio (12/14/2020 3:04:15.034 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-128.57	-125.43	-146.08	-151.39	-149.89	-148.94	-145.13	-149.08	-152.35
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-138.13	-125.43	-152.78	-145.37	-147.58	-148.71	-146.31	-149.26	-147.69

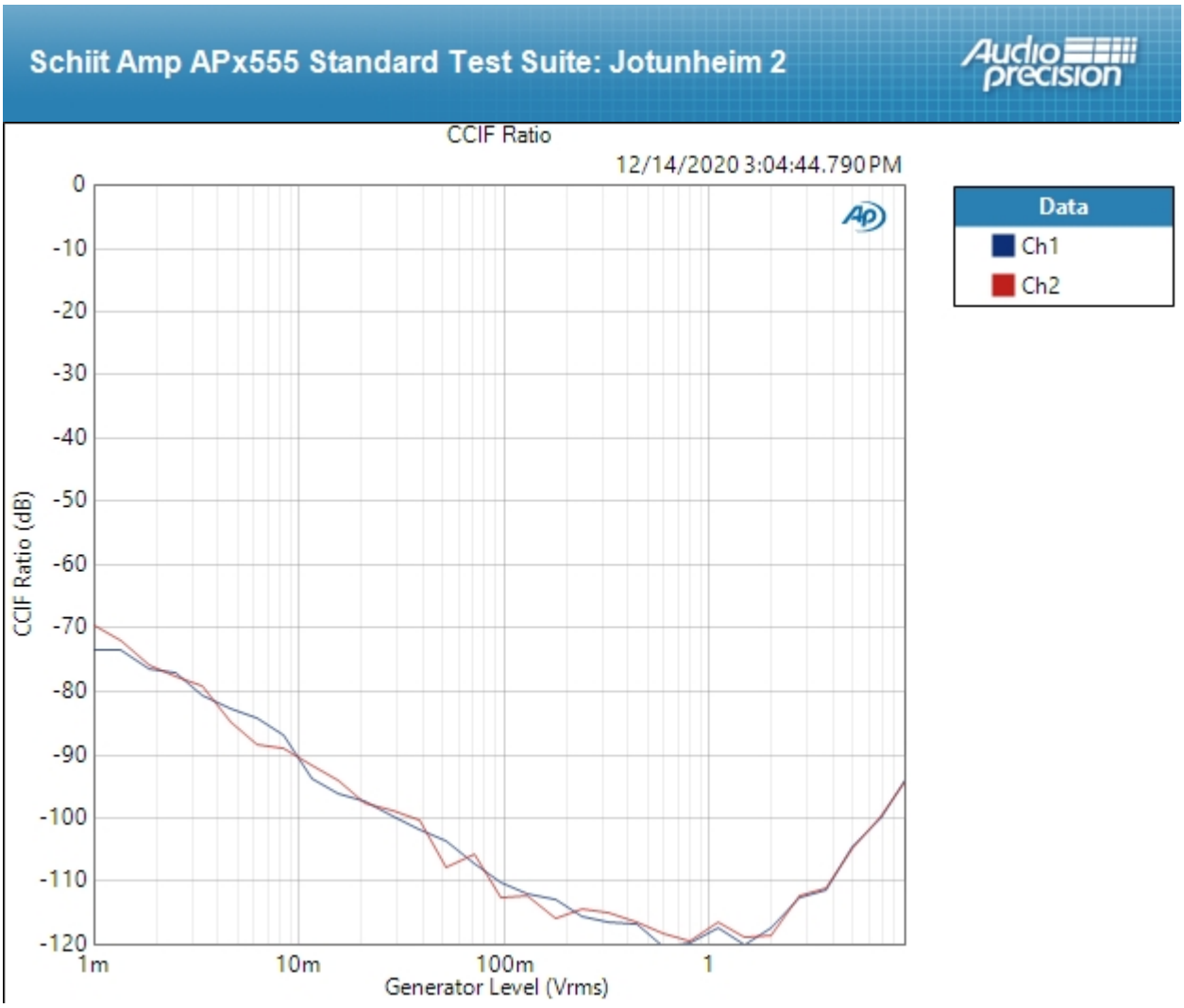
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

300 Ohm Low Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	9.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	9.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 3:04:44 PM

CCIF Ratio (12/14/2020 3:04:44.790 PM)

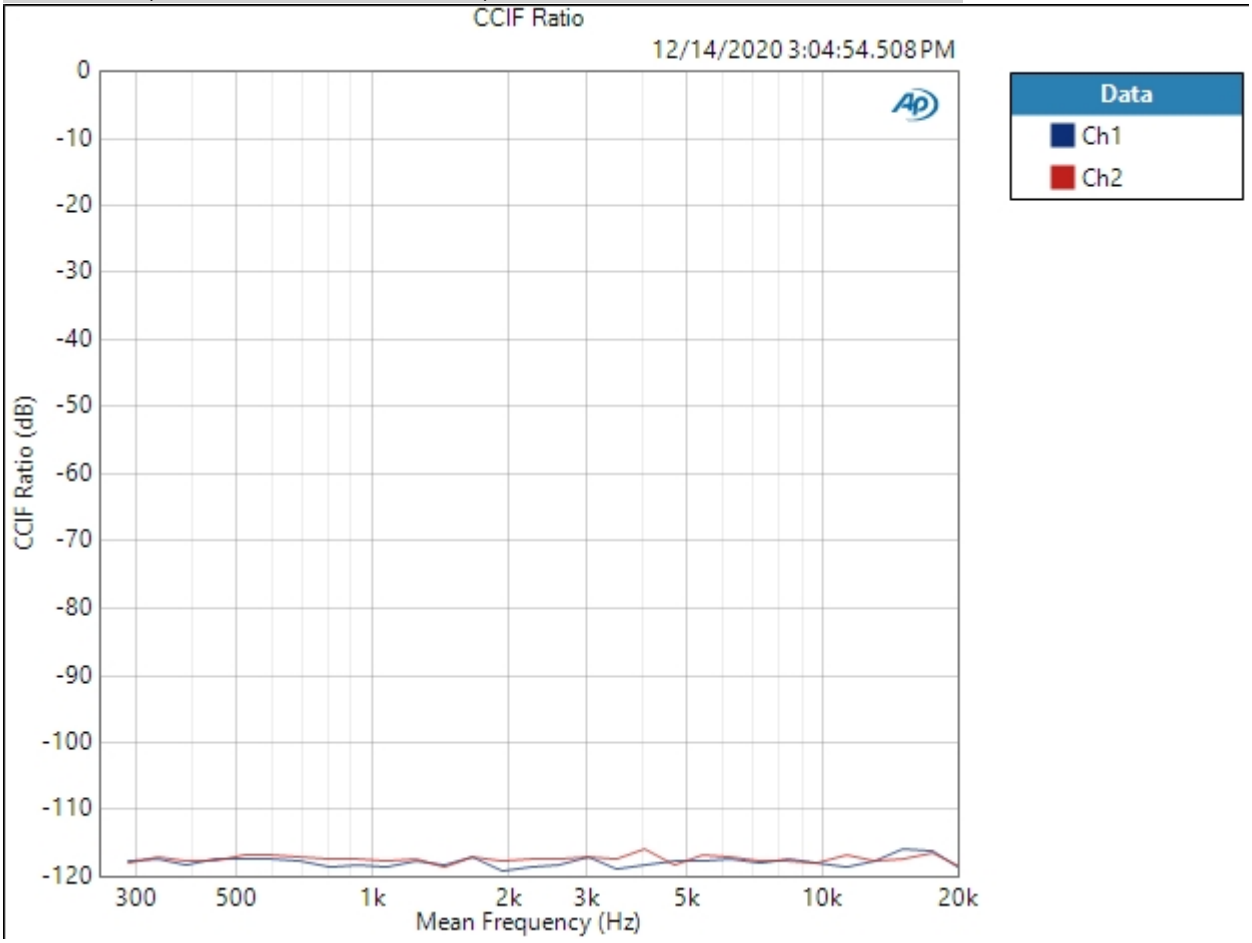


Result: PASSED

300 Ohm Low Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	2.000 Vrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 3:04:54 PM

CCIF Ratio (12/14/2020 3:04:54.508 PM)



Result: PASSED

300 Ohm Low Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	10.0000 kHz

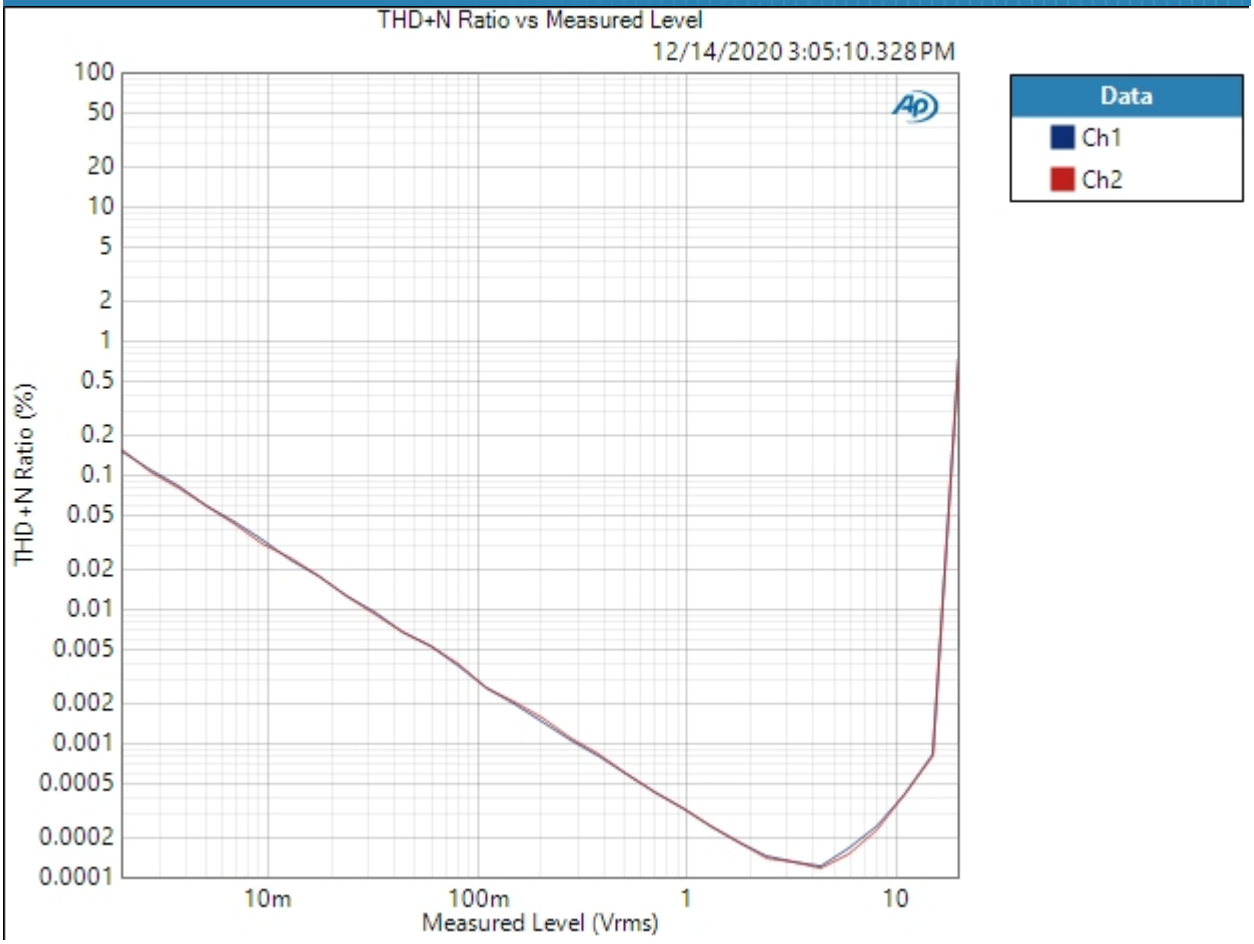
Crosstalk (12/14/2020 3:04:55.908 PM)

Ch1 90.352 dB
Ch2 90.355 dB

300 Ohm Low Balanced : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	10.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 3:05:10 PM

THD+N Ratio vs Measured Level (12/14/2020 3:05:10.328 PM)



Result: PASSED

300 Ohm High Balanced : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

300 Ohm High Balanced : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	465.0 mVrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 3:06:11.184 PM)

Ch1 4.005 Vrms
Ch2 4.004 Vrms

300 Ohm High Balanced : 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

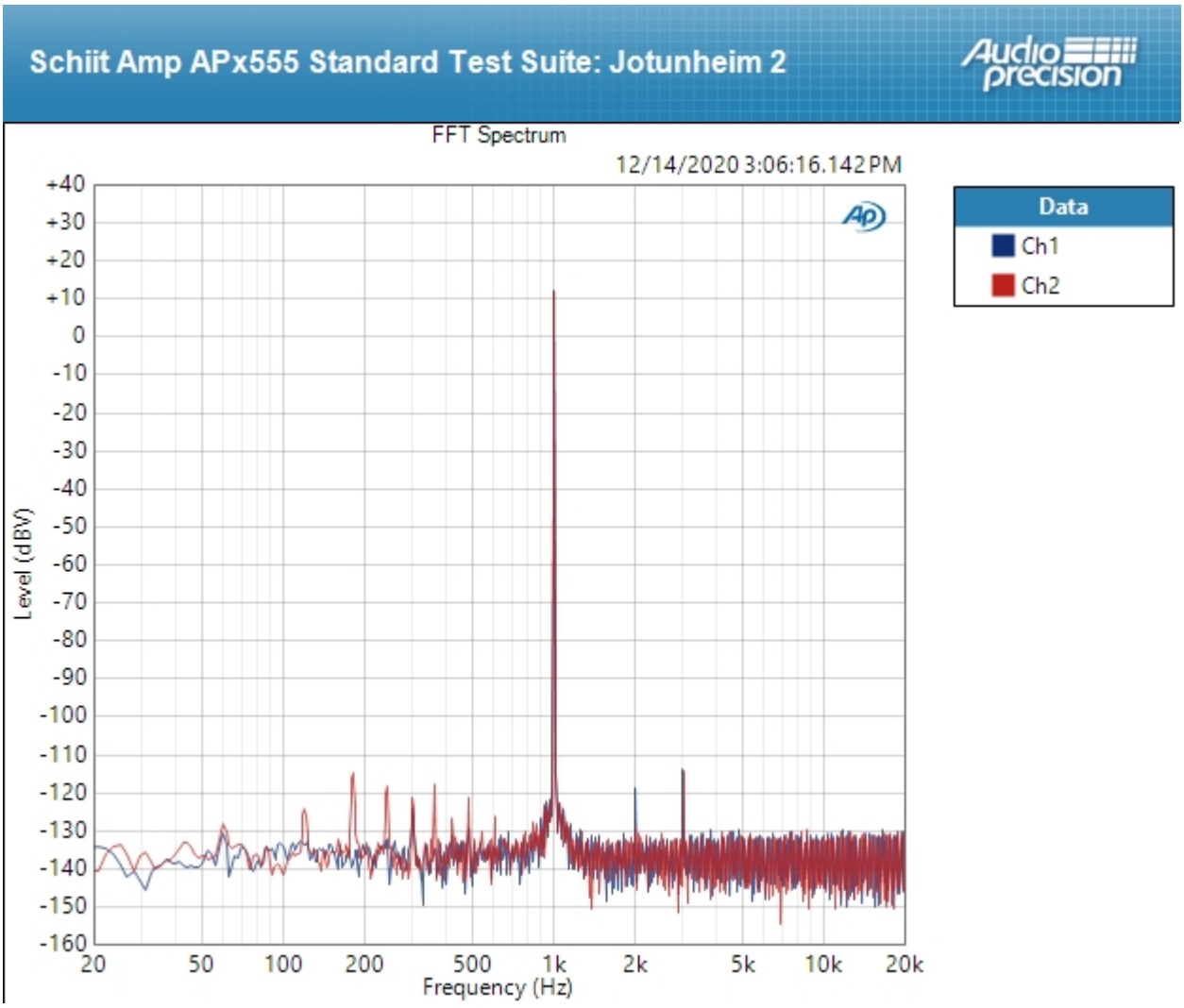
DC Level (12/14/2020 3:06:12.384 PM)

Ch1 -0.959 mV
Ch2 -1.120 mV

300 Ohm High Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	465.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 3:06:16 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 (12/14/2020 3:06:16.142 PM)

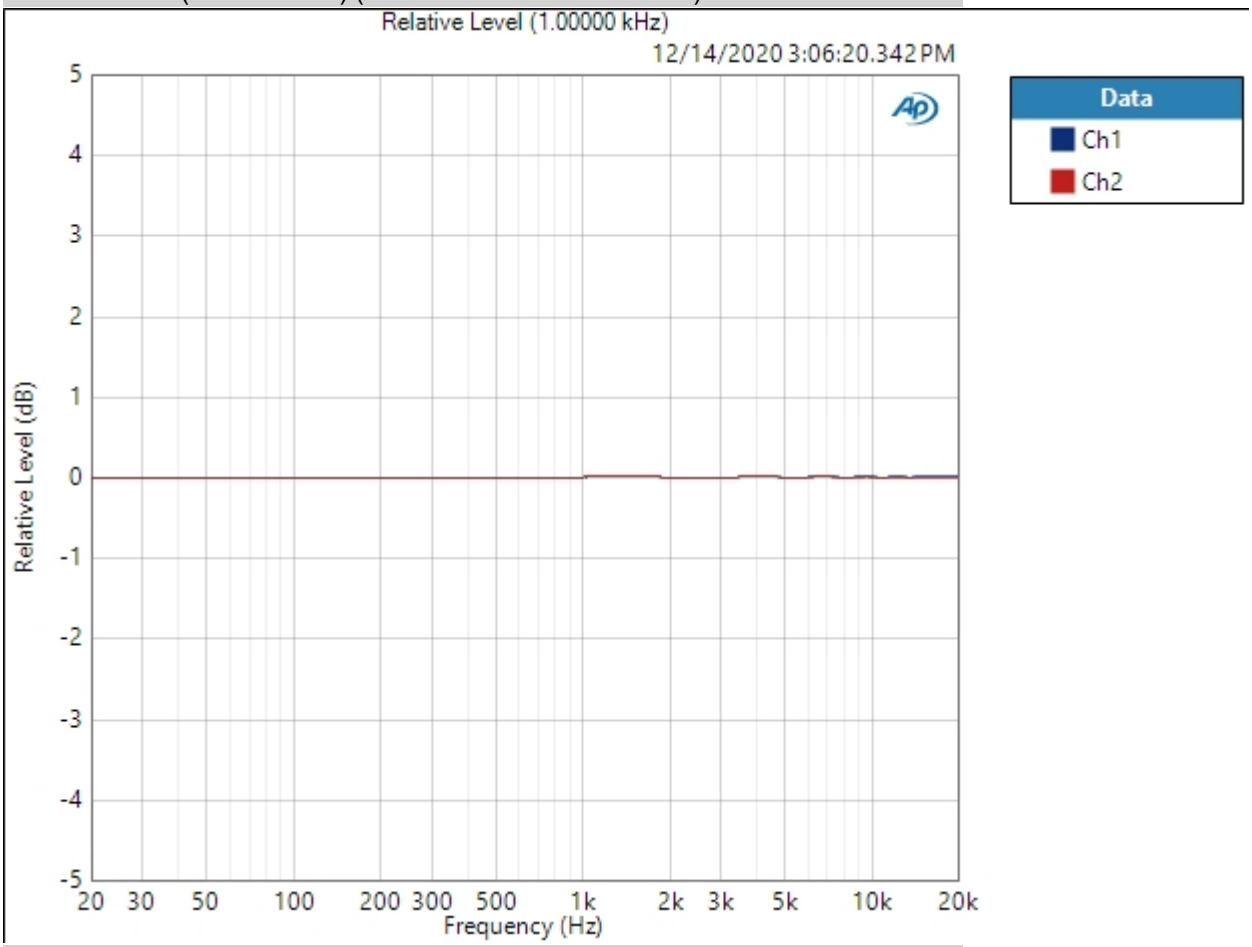


Result: PASSED

300 Ohm High Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	465.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 3:06:20 PM

Relative Level (1.00000 kHz) (12/14/2020 3:06:20.342 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) (12/14/2020 3:06:20.342 PM)

Ch1 ±0.004 dB

Ch2 ±0.003 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High Balanced : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	465.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 3:06:22.401 PM)

Ch1 113.514 dB

Ch2 113.391 dB

300 Ohm High Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	465.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 3:06:24.569 PM)

Ch1	0.000281 %
Ch2	0.000288 %

THD Ratio (12/14/2020 3:06:24.569 PM)

Ch1	0.000080 %
Ch2	0.000068 %

Noise Ratio (12/14/2020 3:06:24.569 PM)

Ch1	0.000269 %
Ch2	0.000282 %

Distortion Product Ratio (12/14/2020 3:06:24.569 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-129.65	-125.00	-140.27	-142.20	-142.42	-139.48	-140.75	-134.69	-139.19
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-138.55	-125.34	-134.69	-140.29	-139.33	-146.62	-138.85	-138.92	-142.95

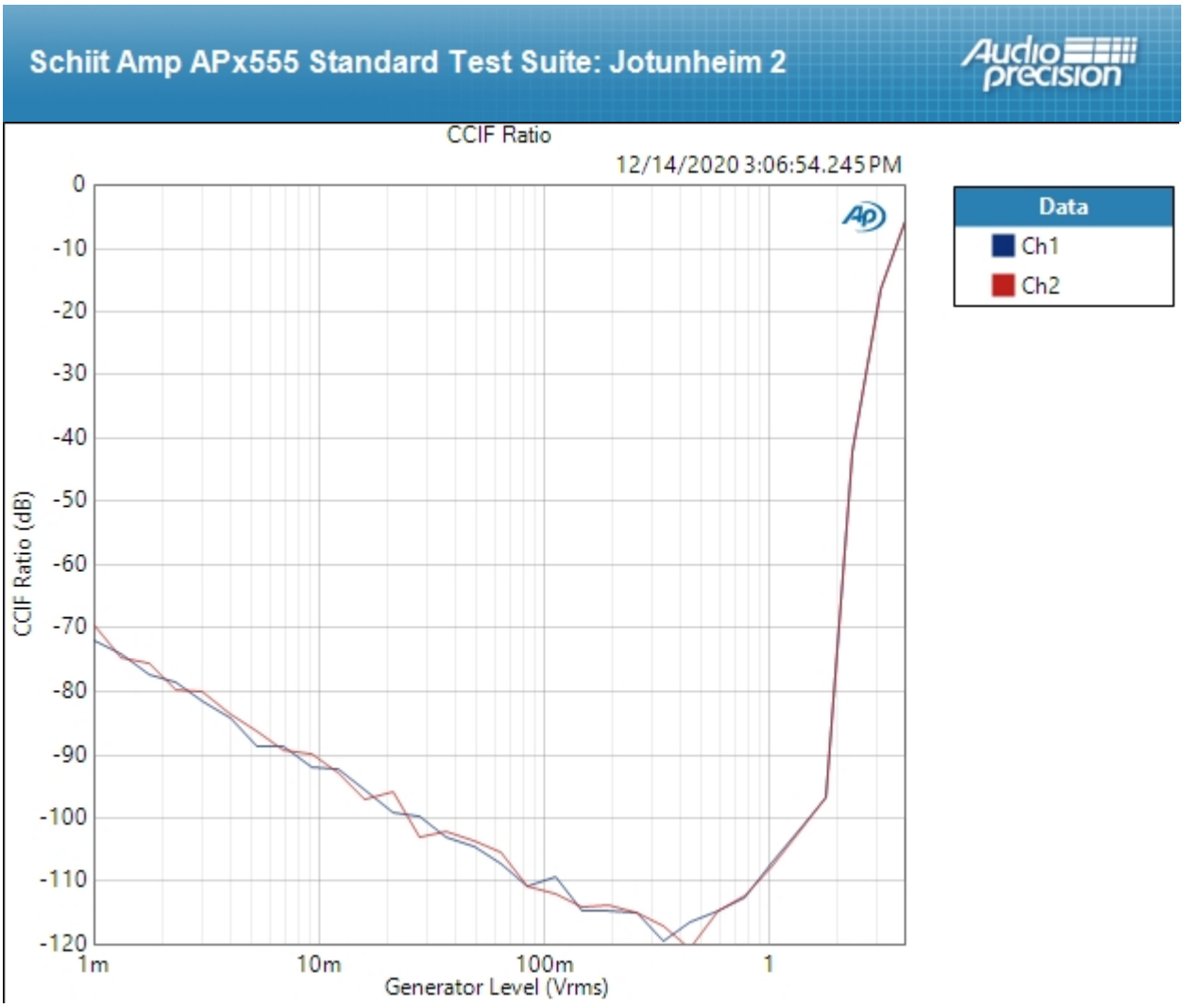
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

300 Ohm High Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	4.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 3:06:54 PM

CCIF Ratio (12/14/2020 3:06:54.245 PM)

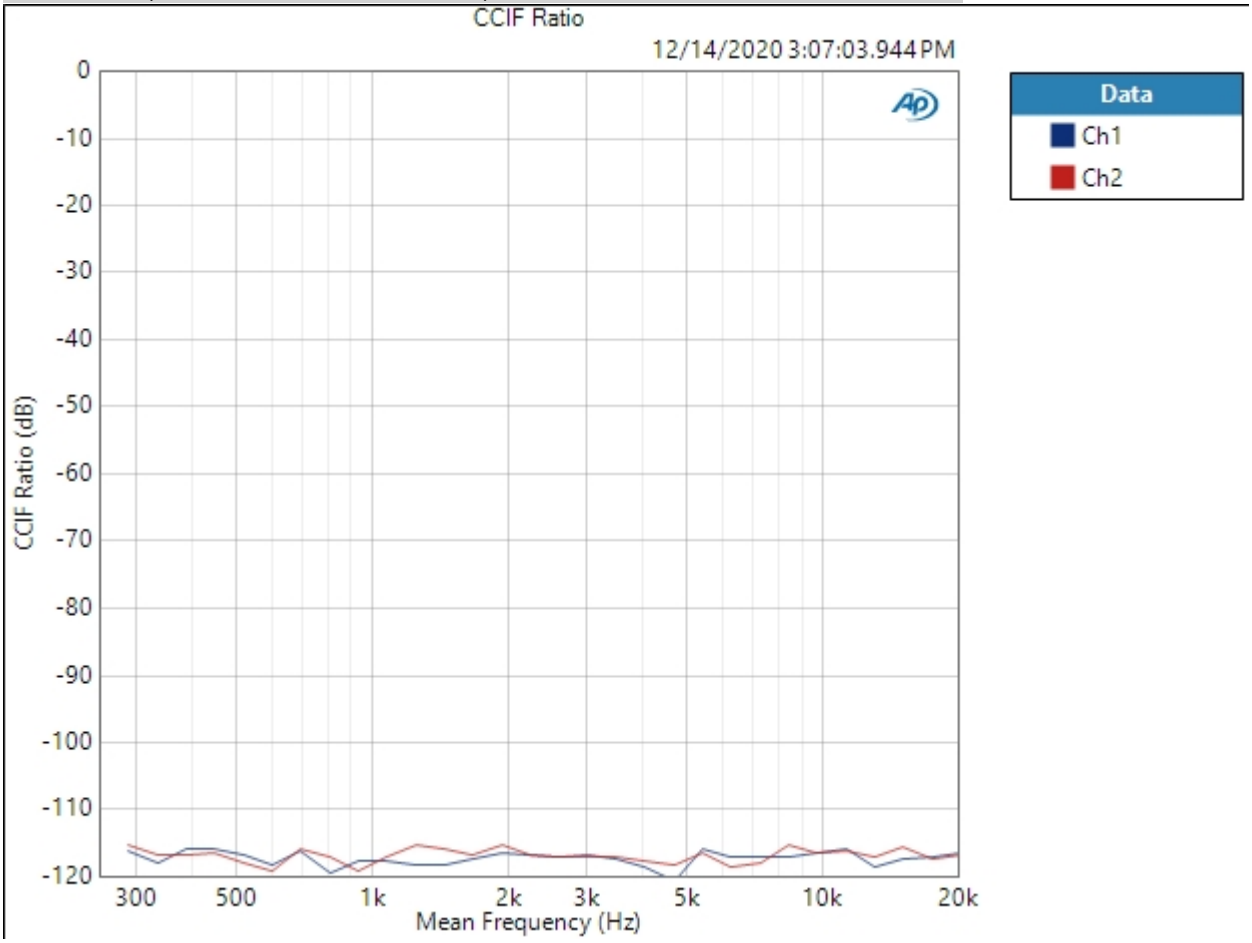


Result: PASSED

300 Ohm High Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	465.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 3:07:03 PM

CCIF Ratio (12/14/2020 3:07:03.944 PM)



Result: PASSED

300 Ohm High Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	465.0 mVrms
Frequency:	10.0000 kHz

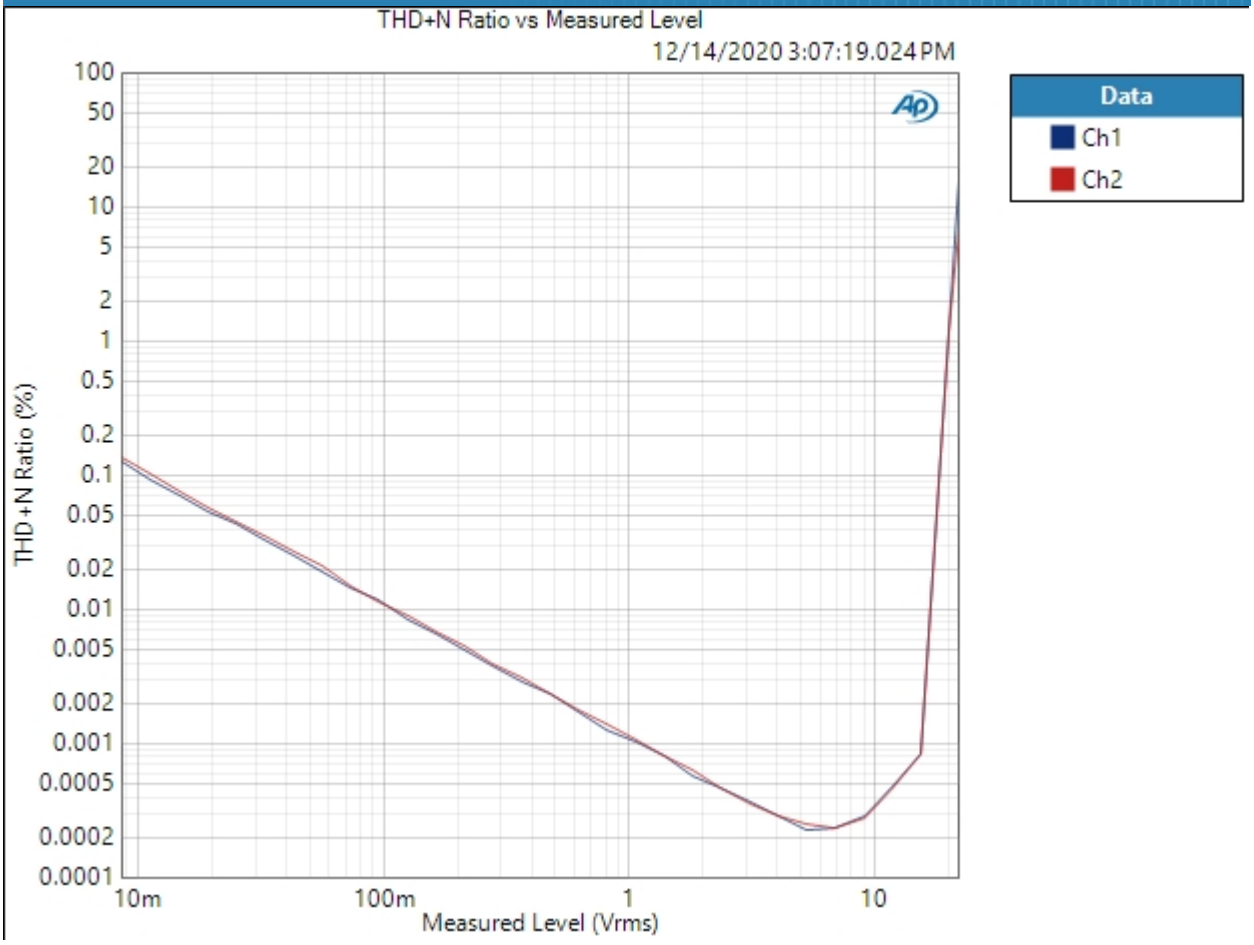
Crosstalk (12/14/2020 3:07:05.404 PM)

Ch1 90.201 dB
Ch2 90.640 dB

300 Ohm High Balanced : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	3.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 3:07:19 PM

THD+N Ratio vs Measured Level (12/14/2020 3:07:19.024 PM)



Result: PASSED

32 Ohm Low Balanced : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

32 Ohm Low Balanced : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	510.0 mVrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 3:07:51.380 PM)

Ch1 1.008 Vrms
Ch2 1.008 Vrms

32 Ohm Low Balanced : 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

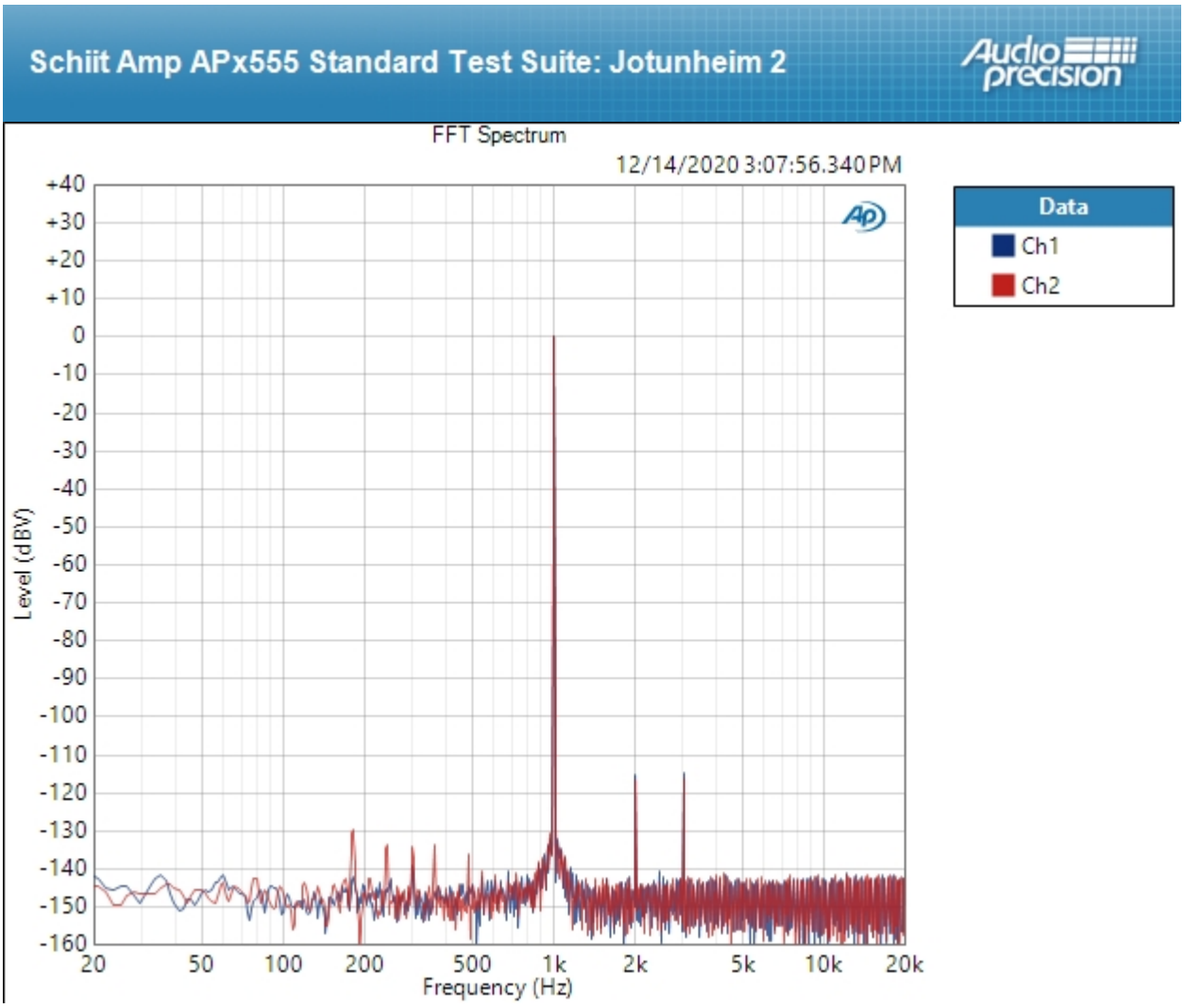
DC Level (12/14/2020 3:07:52.580 PM)

Ch1 -1.716 mV
Ch2 2.381 mV

32 Ohm Low Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	510.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 3:07:56 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 (12/14/2020 3:07:56.340 PM)

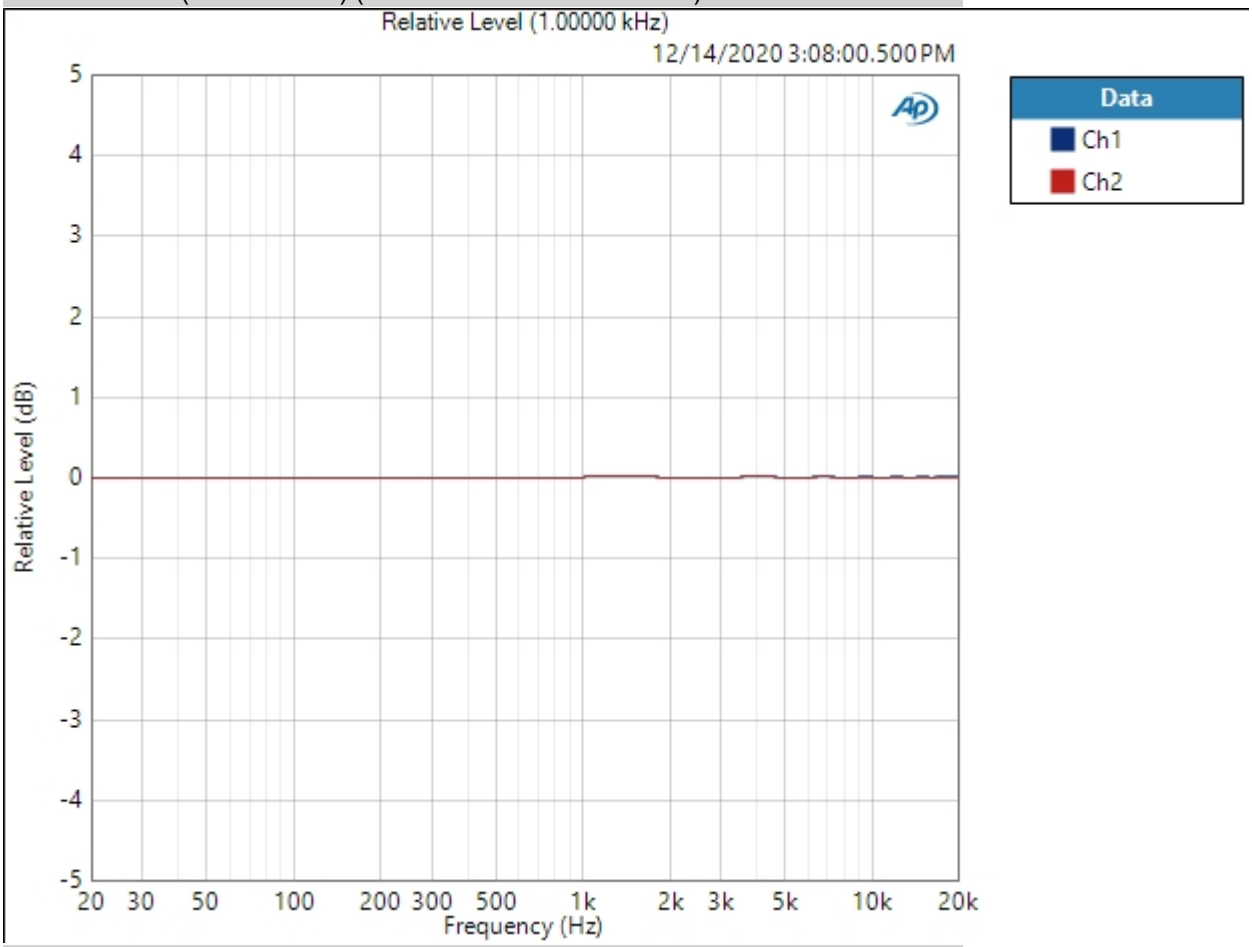


Result: PASSED

32 Ohm Low Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	510.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 3:08:00 PM

Relative Level (1.00000 kHz) (12/14/2020 3:08:00.500 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) (12/14/2020 3:08:00.500 PM)

Ch1 ±0.004 dB

Ch2 ±0.003 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm Low Balanced : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	510.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 3:08:02.549 PM)

Ch1 112.657 dB

Ch2 112.571 dB

32 Ohm Low Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	510.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 3:08:04.958 PM)

Ch1	0.000393 %
Ch2	0.000370 %

THD Ratio (12/14/2020 3:08:04.958 PM)

Ch1	0.000259 %
Ch2	0.000220 %

Noise Ratio (12/14/2020 3:08:04.958 PM)

Ch1	0.000298 %
Ch2	0.000301 %

Distortion Product Ratio (12/14/2020 3:08:04.958 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-115.22	-114.63	-133.07	-134.65	-135.87	-139.94	-139.72	-140.35	-141.34
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-116.50	-116.37	-138.07	-136.93	-141.59	-137.53	-138.31	-143.90	-139.96

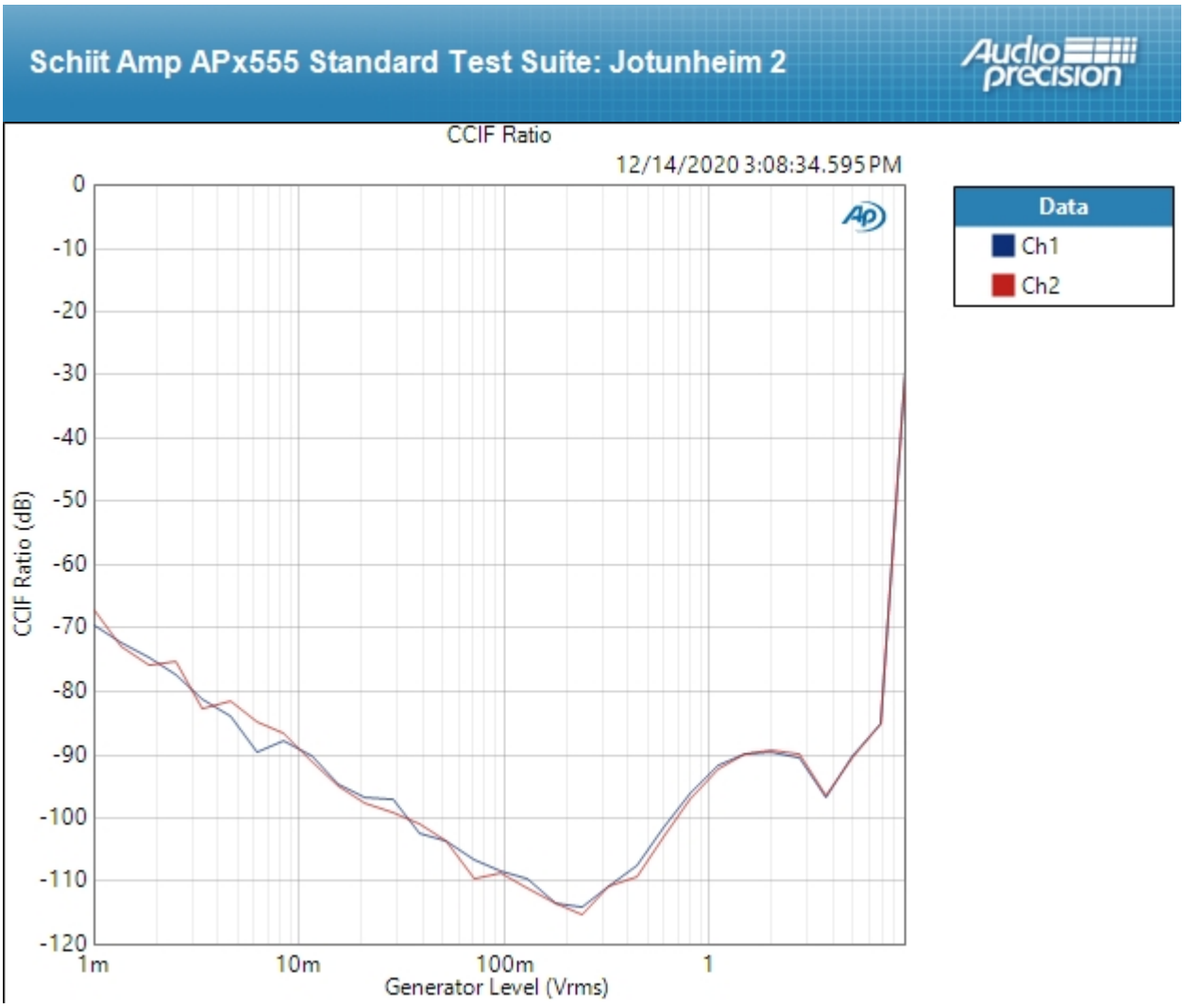
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

32 Ohm Low Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	9.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	9.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 3:08:34 PM

CCIF Ratio (12/14/2020 3:08:34.595 PM)

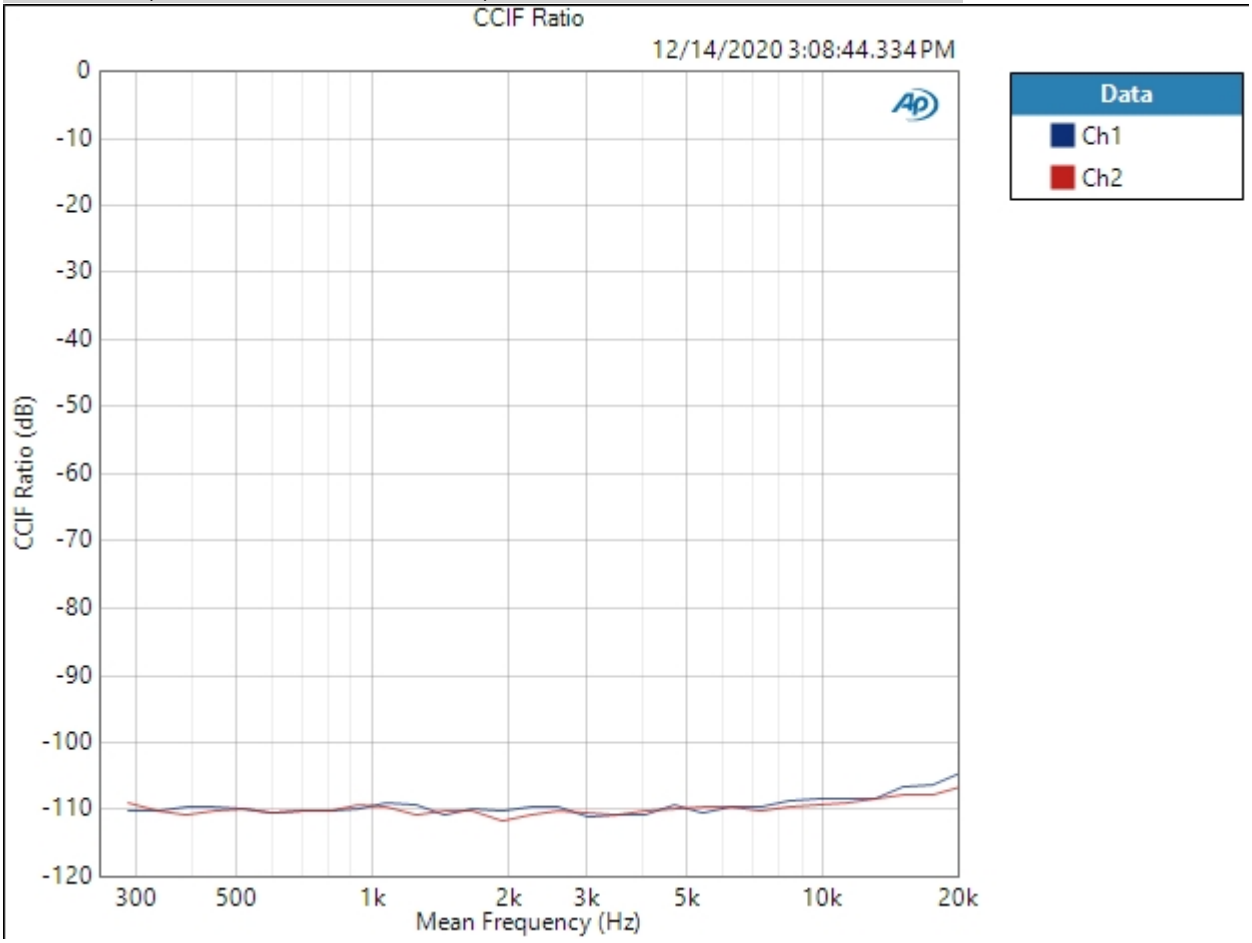


Result: PASSED

32 Ohm Low Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	510.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 3:08:44 PM

CCIF Ratio (12/14/2020 3:08:44.334 PM)



Result: PASSED

32 Ohm Low Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	510.0 mVrms
Frequency:	10.0000 kHz

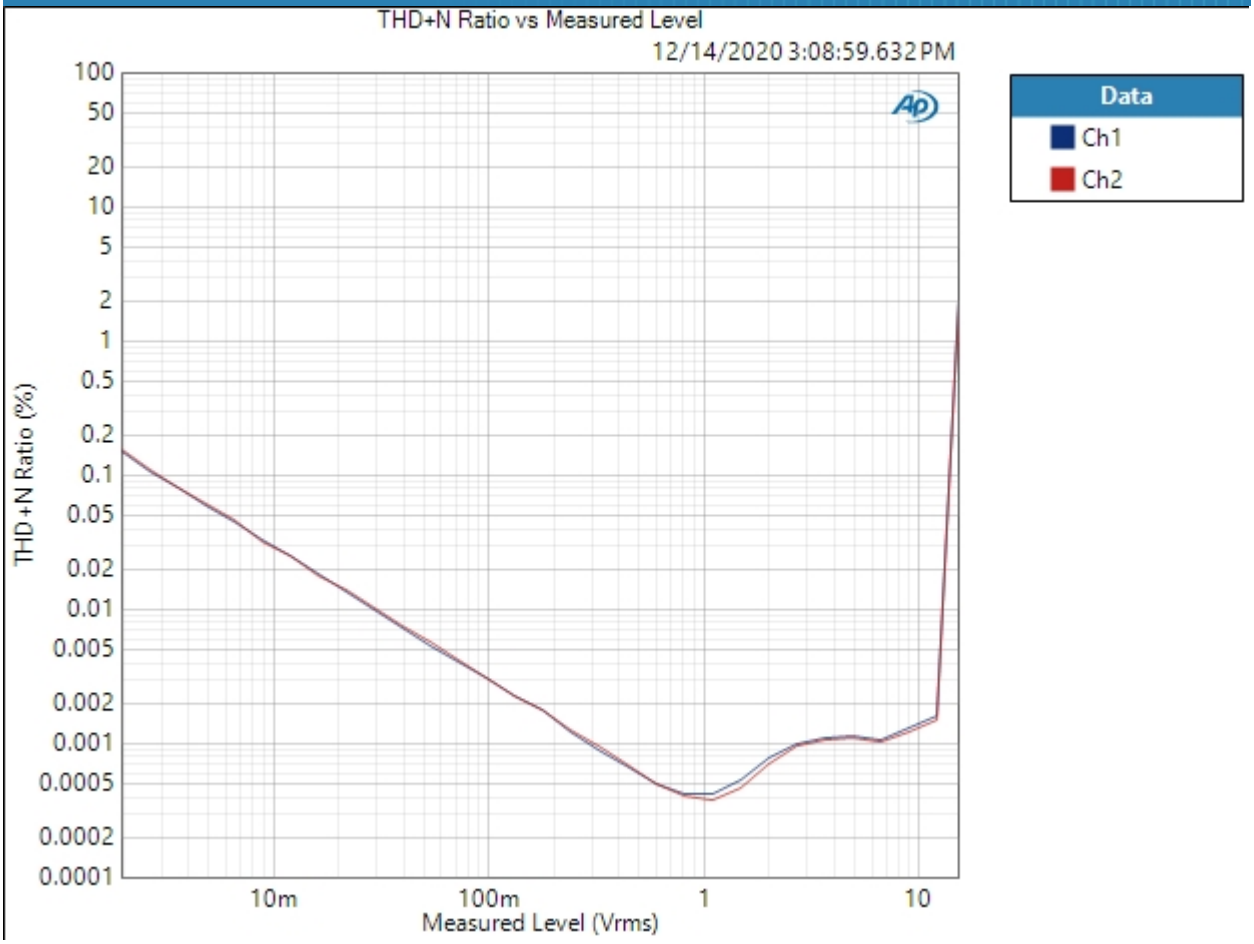
Crosstalk (12/14/2020 3:08:45.663 PM)

Ch1 70.959 dB
Ch2 71.005 dB

32 Ohm Low Balanced : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	8.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 3:08:59 PM

THD+N Ratio vs Measured Level (12/14/2020 3:08:59.632 PM)



Result: PASSED

32 Ohm High Balanced : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

32 Ohm High Balanced : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	120.0 mVrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 3:09:21.608 PM)

Ch1 1.024 Vrms
Ch2 1.024 Vrms

32 Ohm High Balanced : 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

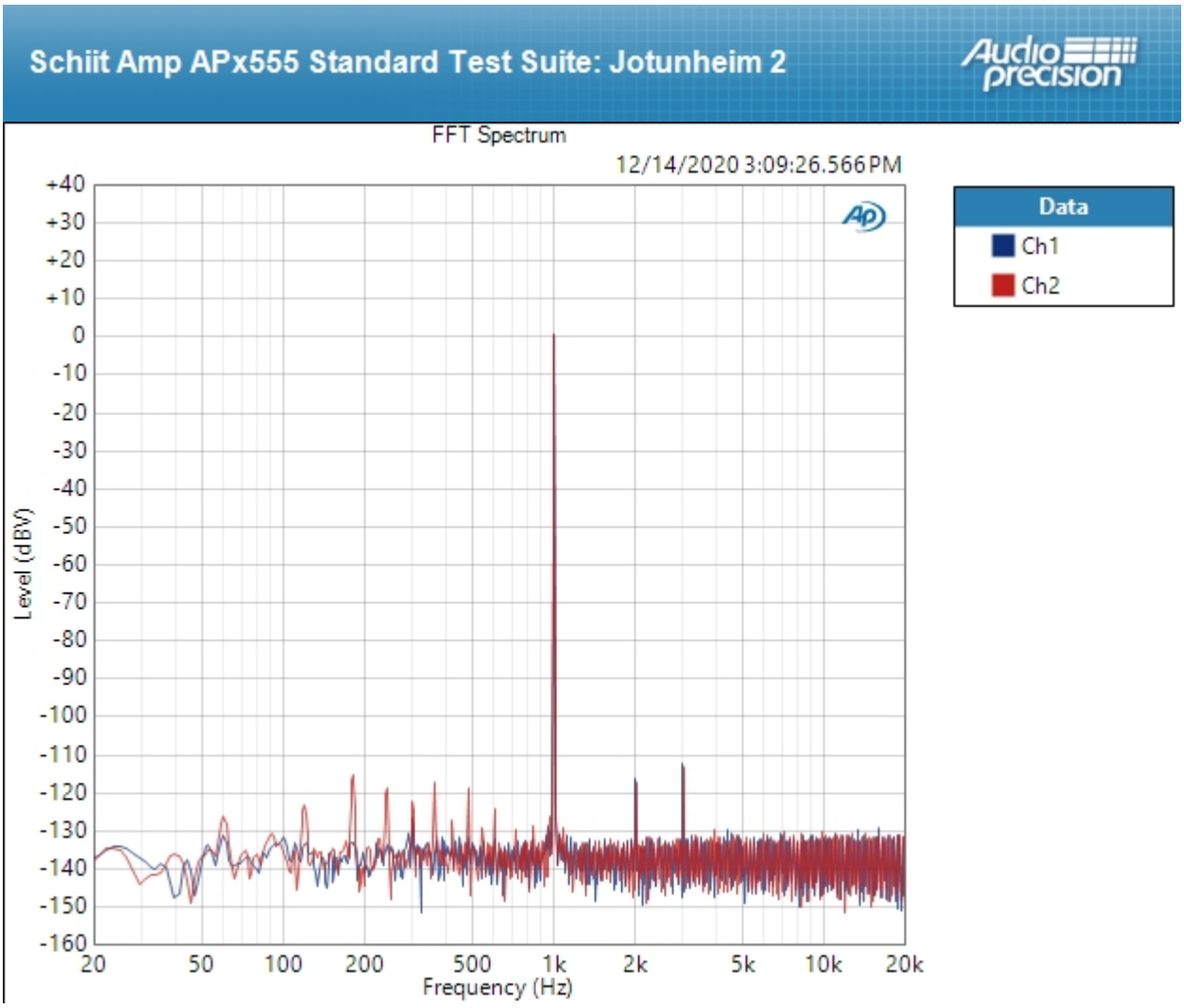
DC Level (12/14/2020 3:09:22.807 PM)

Ch1 463.7 uV
Ch2 -2.524 mV

32 Ohm High Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	120.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 3:09:26 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 (12/14/2020 3:09:26.566 PM)

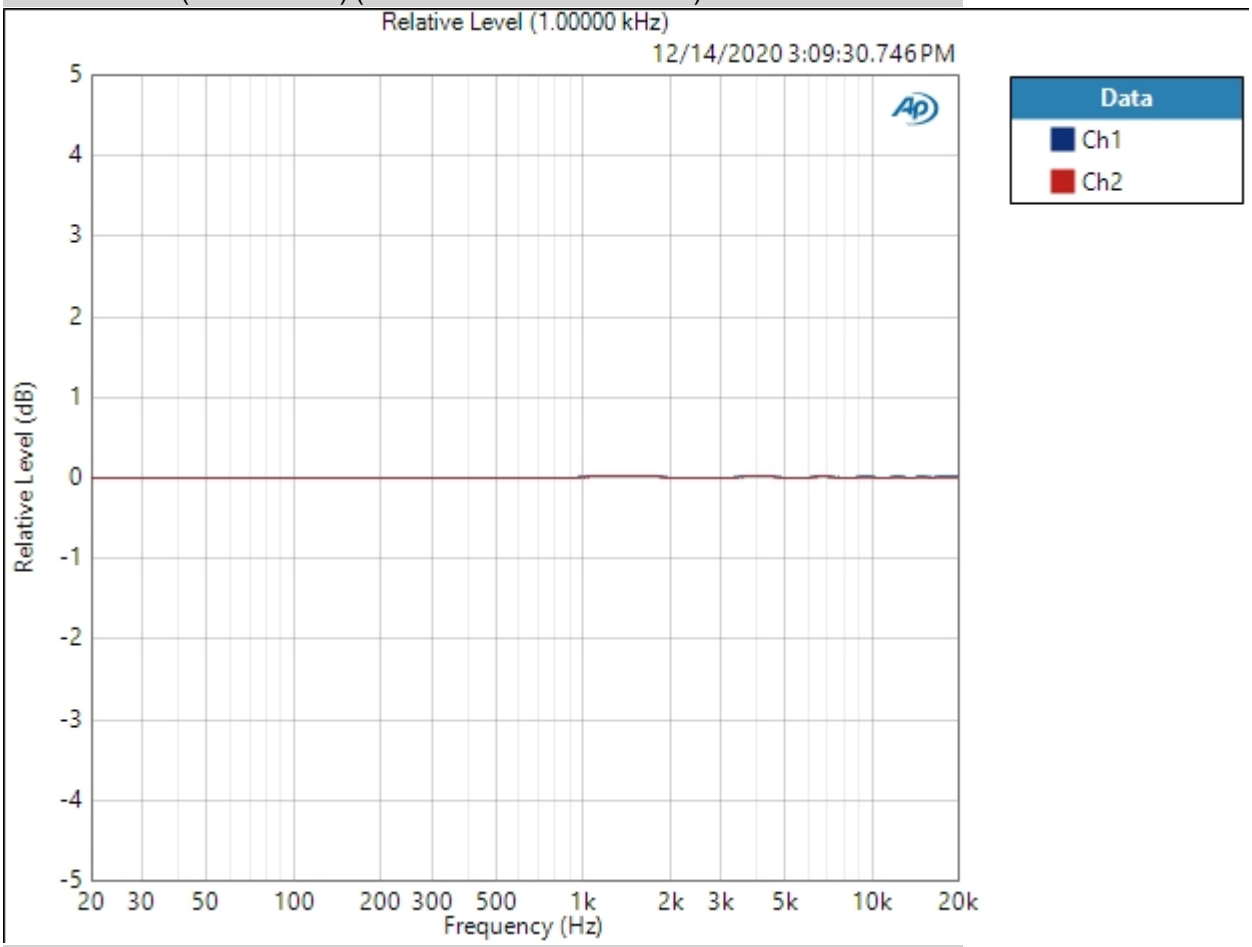


Result: PASSED

32 Ohm High Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	120.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 3:09:30 PM

Relative Level (1.00000 kHz) (12/14/2020 3:09:30.746 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) (12/14/2020 3:09:30.746 PM)

Ch1 ±0.004 dB

Ch2 ±0.003 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm High Balanced : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	120.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 3:09:32.815 PM)

Ch1 101.603 dB

Ch2 101.548 dB

32 Ohm High Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	120.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 3:09:34.964 PM)

Ch1	0.001067 %
Ch2	0.001109 %

THD Ratio (12/14/2020 3:09:34.964 PM)

Ch1	0.000358 %
Ch2	0.000317 %

Noise Ratio (12/14/2020 3:09:34.964 PM)

Ch1	0.001001 %
Ch2	0.001062 %

Distortion Product Ratio (12/14/2020 3:09:34.964 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-115.03	-111.65	-130.19	-126.97	-128.22	-124.48	-129.65	-127.69	-133.85
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-115.37	-113.39	-132.56	-124.59	-130.58	-132.22	-130.52	-126.67	-132.01

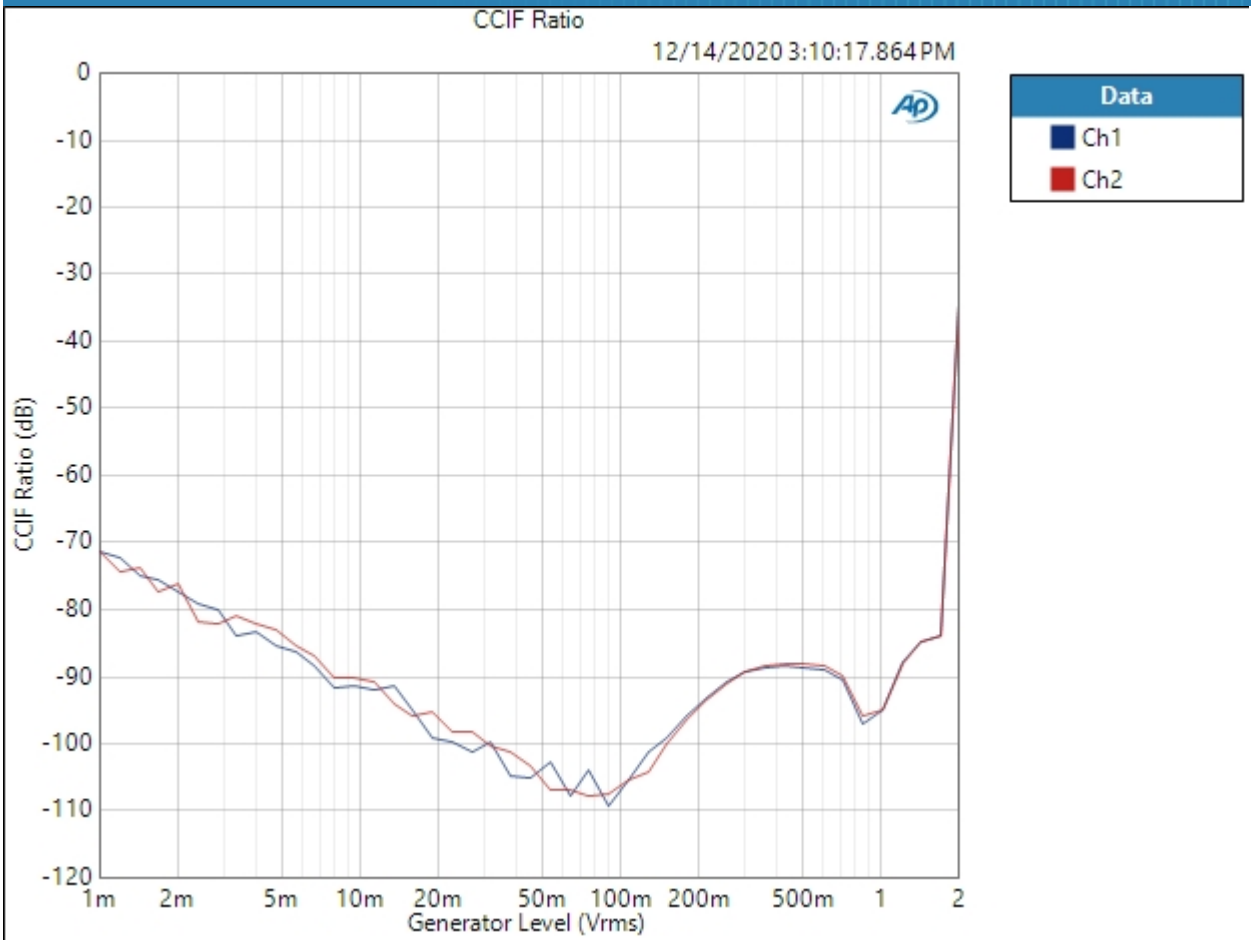
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

32 Ohm High Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	2.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	2.000 Vrms
Step Type:	Logarithmic
Number of Points:	45
Mode:	d2+d3
Measured 1	12/14/2020 3:10:17 PM

CCIF Ratio (12/14/2020 3:10:17.864 PM)

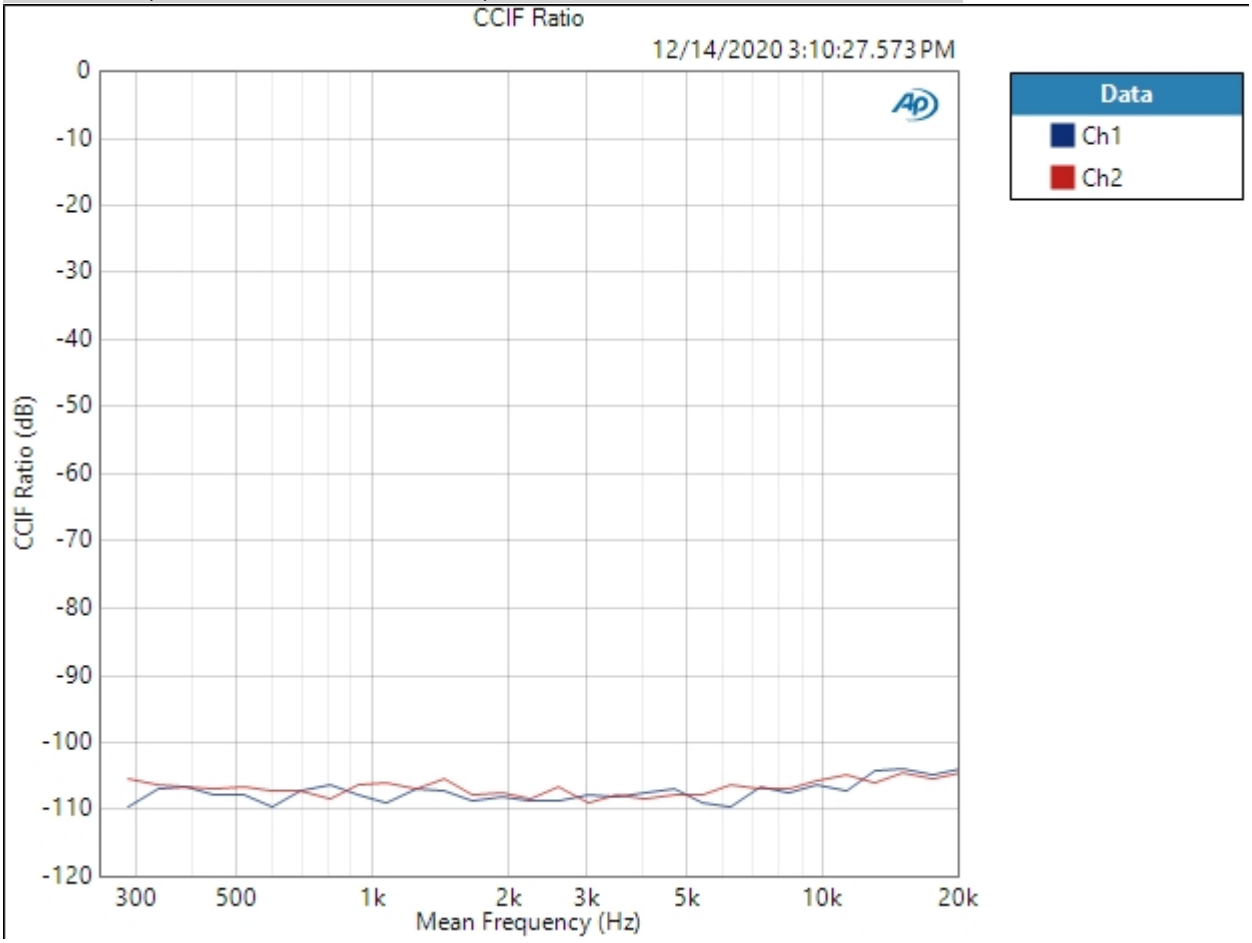


Result: PASSED

32 Ohm High Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	120.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 3:10:27 PM

CCIF Ratio (12/14/2020 3:10:27.573 PM)



Result: PASSED

32 Ohm High Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	120.0 mVrms
Frequency:	10.0000 kHz

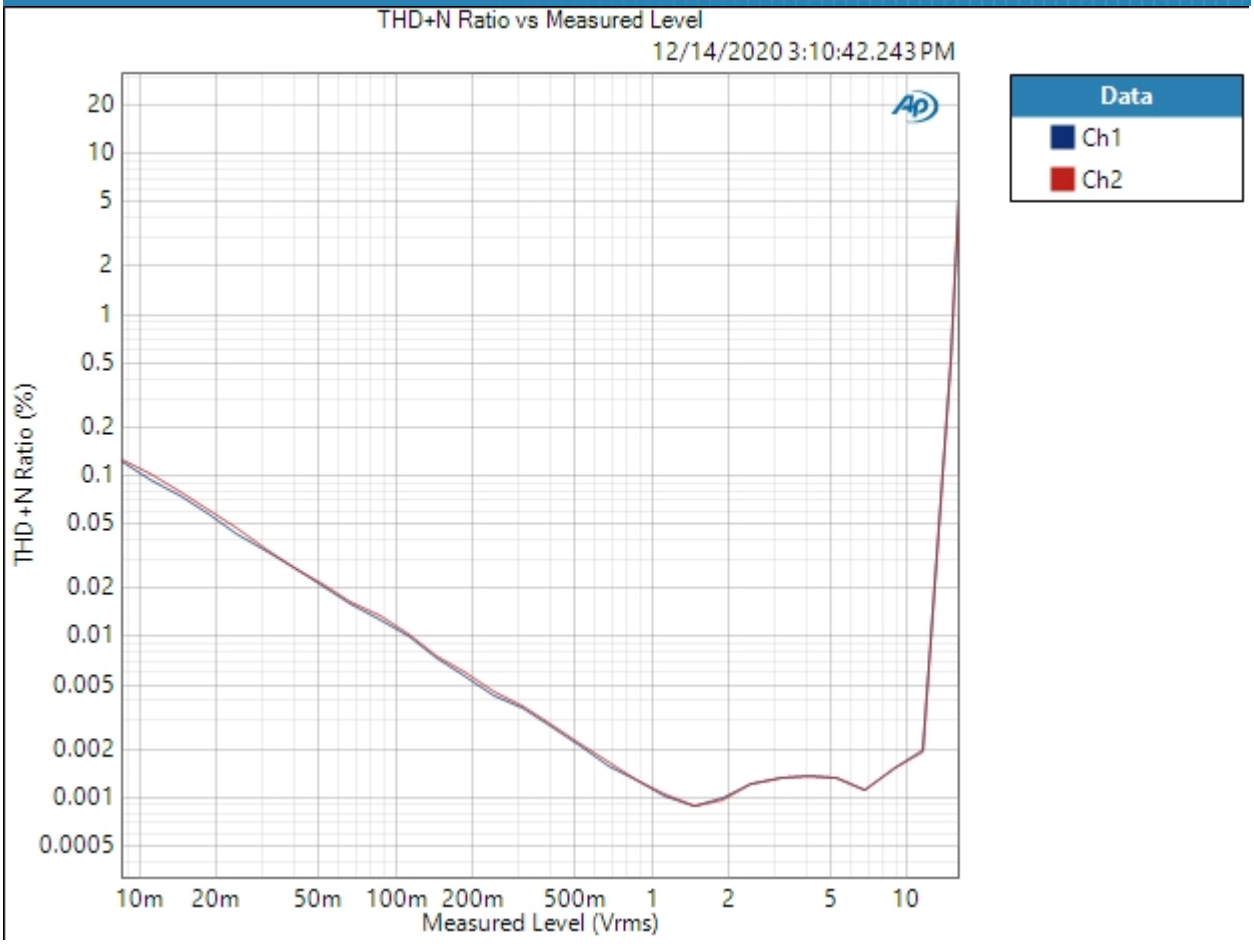
Crosstalk (12/14/2020 3:10:28.913 PM)

Ch1 70.931 dB
Ch2 71.265 dB

32 Ohm High Balanced : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	2.200 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 3:10:42 PM

THD+N Ratio vs Measured Level (12/14/2020 3:10:42.243 PM)



Result: PASSED

300 Ohm Low SE : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

300 Ohm Low SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 2:41:53.308 PM)

Ch1 1.986 Vrms
Ch2 1.985 Vrms

300 Ohm Low SE : 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

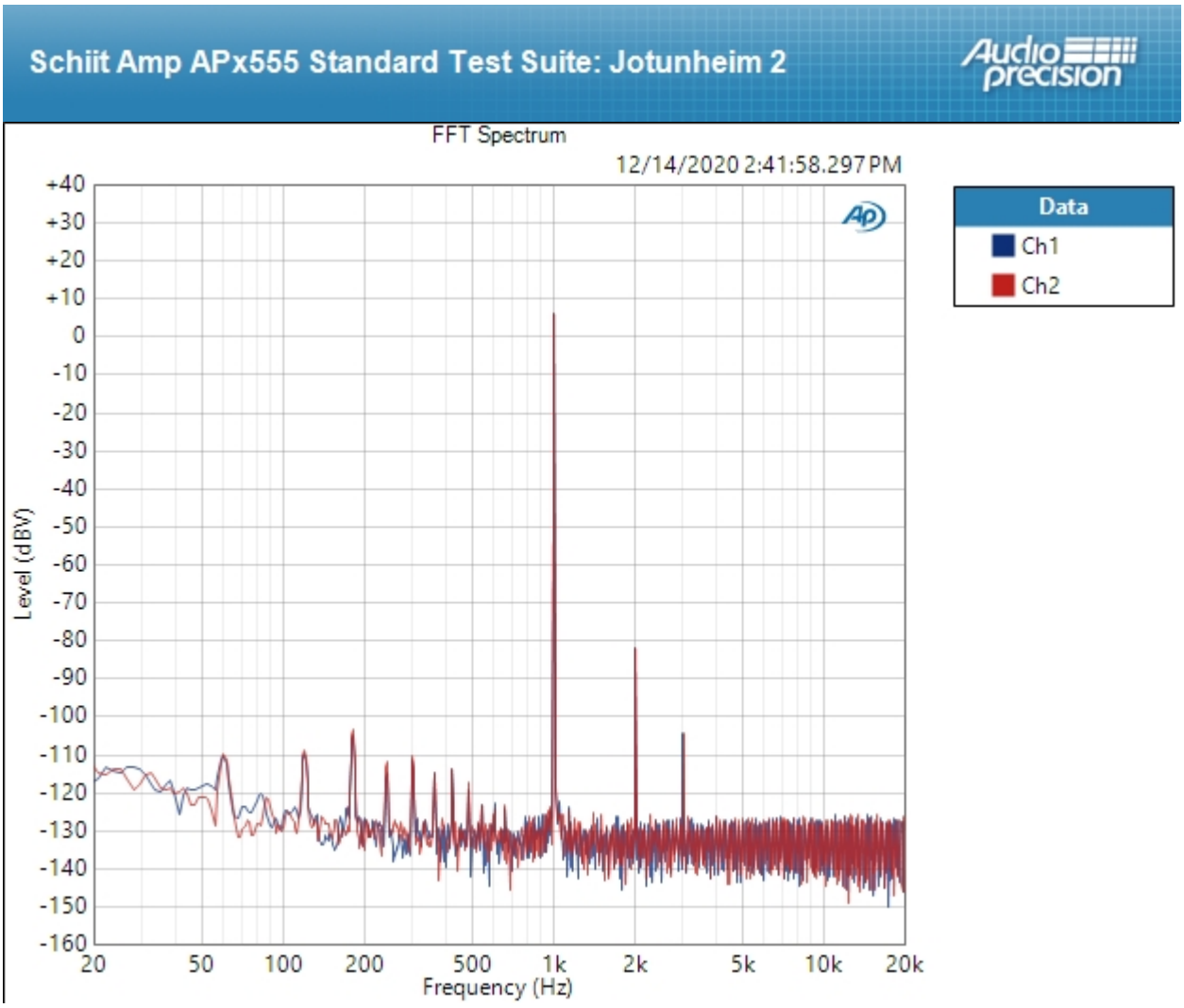
DC Level (12/14/2020 2:41:54.497 PM)

Ch1 731.2 uV
Ch2 2.547 mV

300 Ohm Low SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 2:41:58 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 (12/14/2020 2:41:58.297 PM)

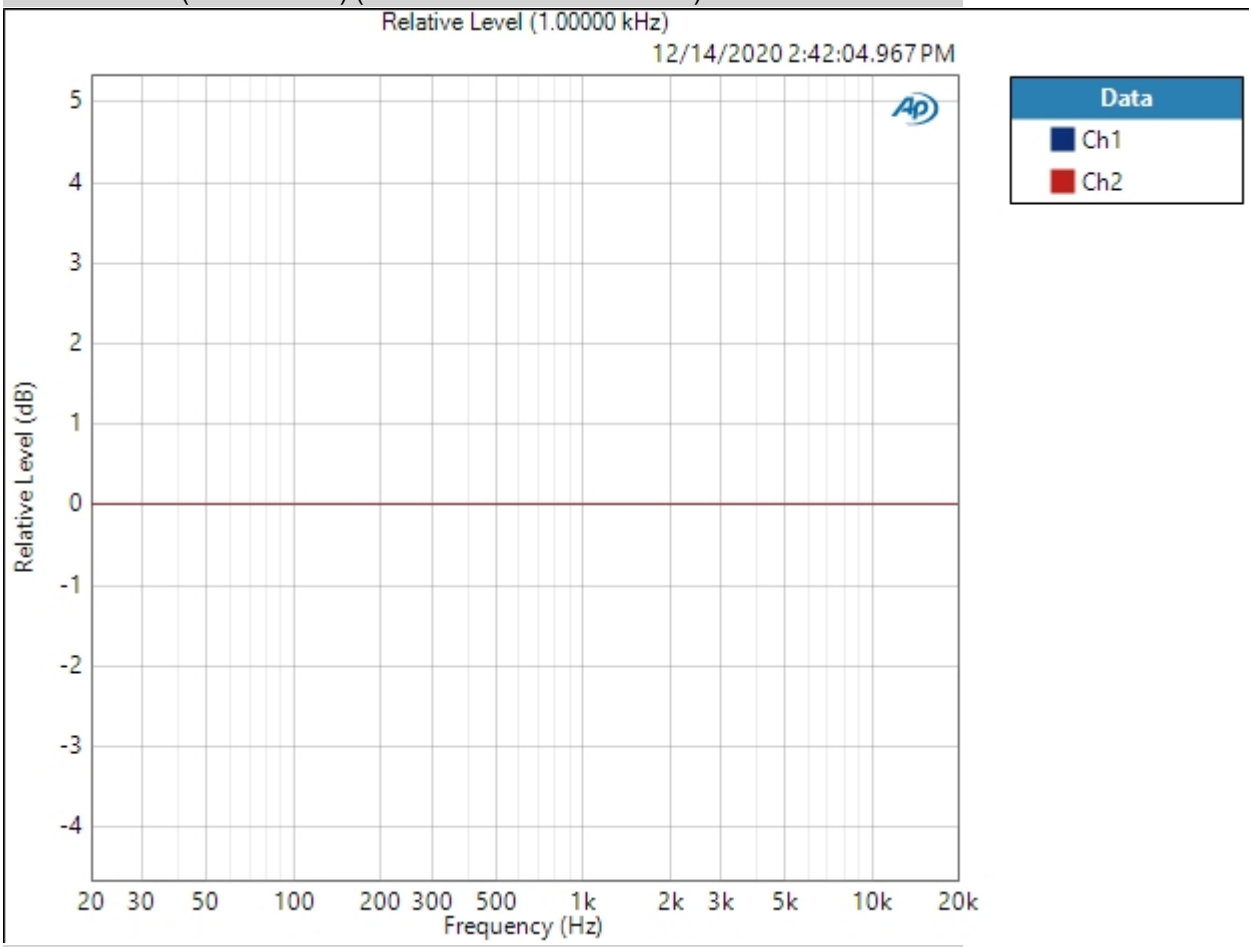


Result: PASSED

300 Ohm Low SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	2.000 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	12/14/2020 2:42:04 PM

Relative Level (1.00000 kHz) (12/14/2020 2:42:04.967 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) (12/14/2020 2:42:04.967 PM)

Ch1 ±0.008 dB

Ch2 ±0.005 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm Low SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 2:42:07.056 PM)

Ch1 102.687 dB

Ch2 102.595 dB

300 Ohm Low SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 2:42:09.465 PM)

Ch1	0.006389 %
Ch2	0.006496 %

THD Ratio (12/14/2020 2:42:09.465 PM)

Ch1	0.002047 %
Ch2	0.002073 %

Noise Ratio (12/14/2020 2:42:09.465 PM)

Ch1	0.001997 %
Ch2	0.002132 %

Distortion Product Ratio (12/14/2020 2:42:09.465 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-93.87	-120.03	-122.41	-124.00	-124.00	-124.53	-124.91	-126.10	-121.96
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-93.76	-119.07	-126.59	-121.51	-122.32	-121.88	-125.46	-123.37	-127.51

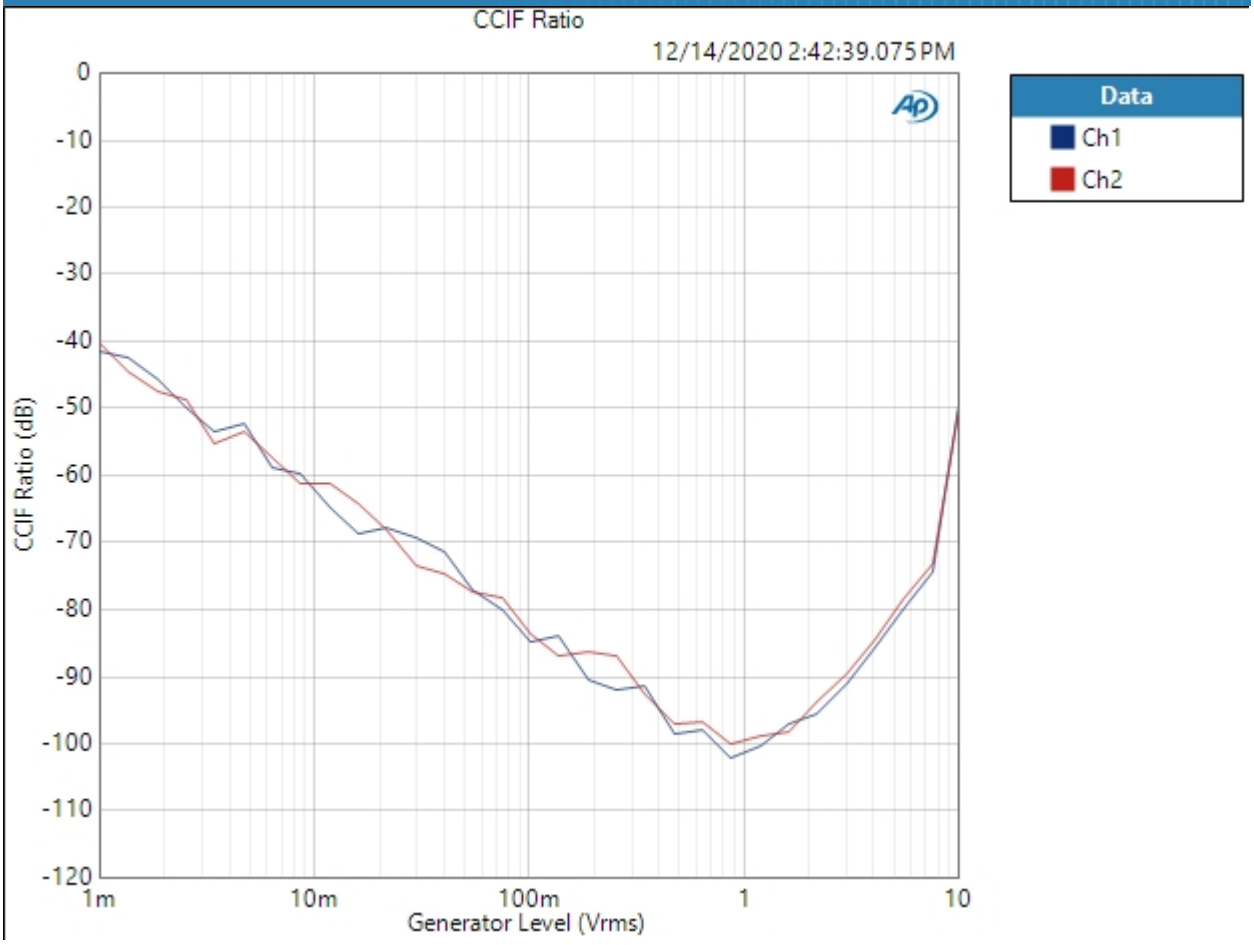
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

300 Ohm Low SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	10.00 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	10.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 2:42:39 PM

CCIF Ratio (12/14/2020 2:42:39.075 PM)

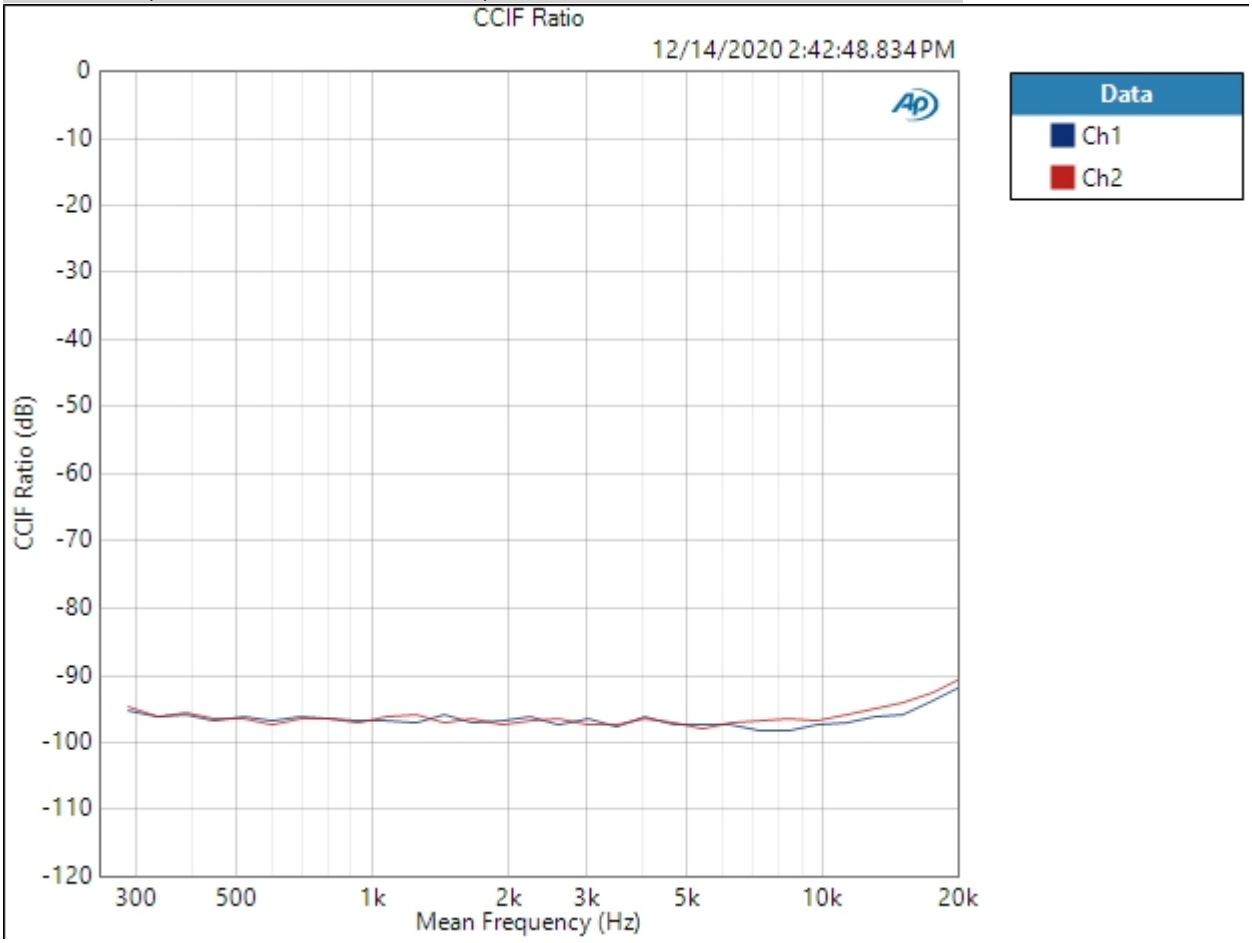


Result: PASSED

300 Ohm Low SE : IMD Frequency Sweep (CCIF)

Generator Level:	2.000 Vrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 2:42:48 PM

CCIF Ratio (12/14/2020 2:42:48.834 PM)



Result: PASSED

300 Ohm Low SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	10.0000 kHz

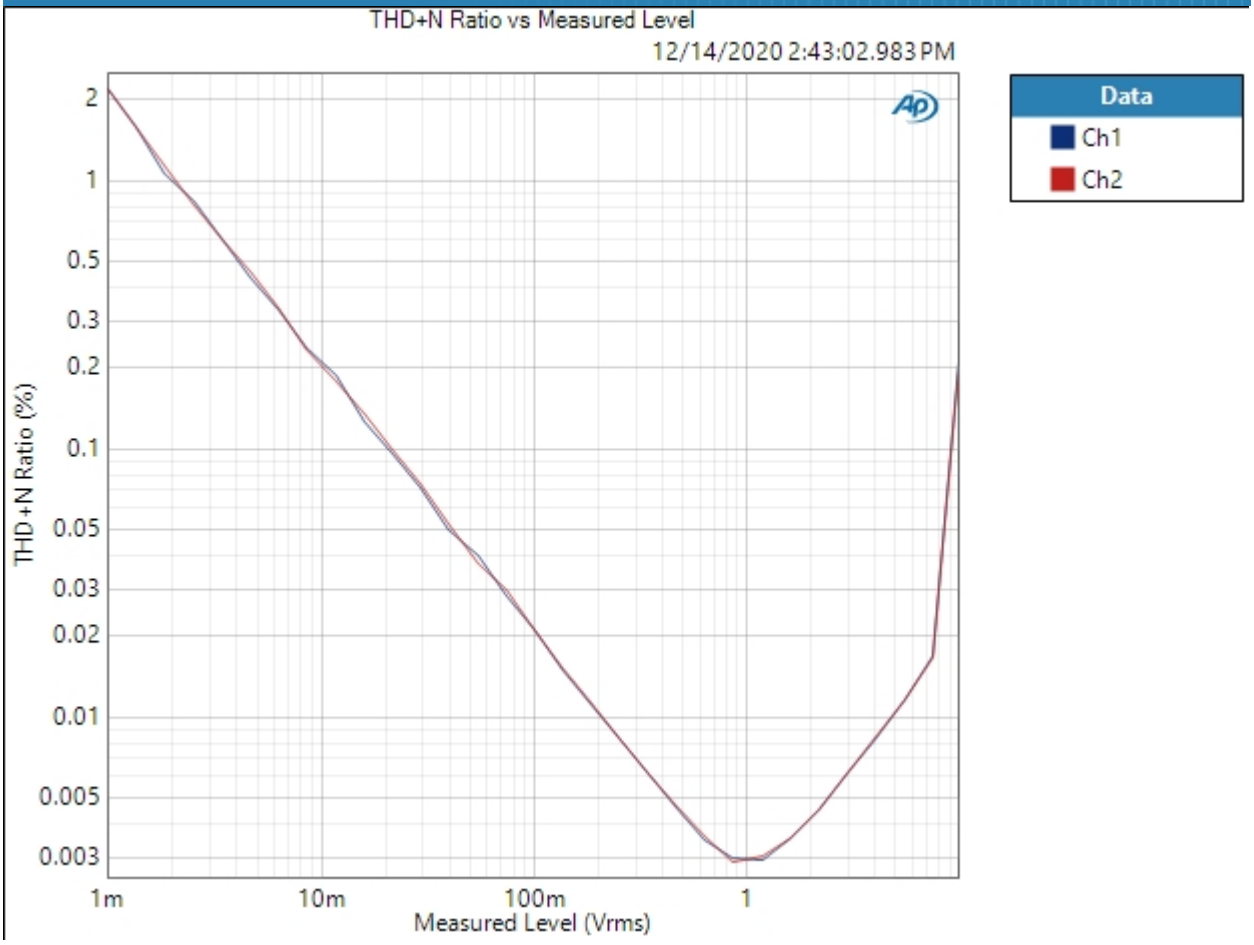
Crosstalk (12/14/2020 2:42:50.984 PM)

Ch1 89.614 dB
Ch2 89.798 dB

300 Ohm Low SE : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	10.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 2:43:02 PM

THD+N Ratio vs Measured Level (12/14/2020 2:43:02.983 PM)



Result: PASSED

300 Ohm High SE : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

300 Ohm High SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	500.0 mVrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 2:46:01.993 PM)

Ch1 2.143 Vrms
Ch2 2.142 Vrms

300 Ohm High SE : 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

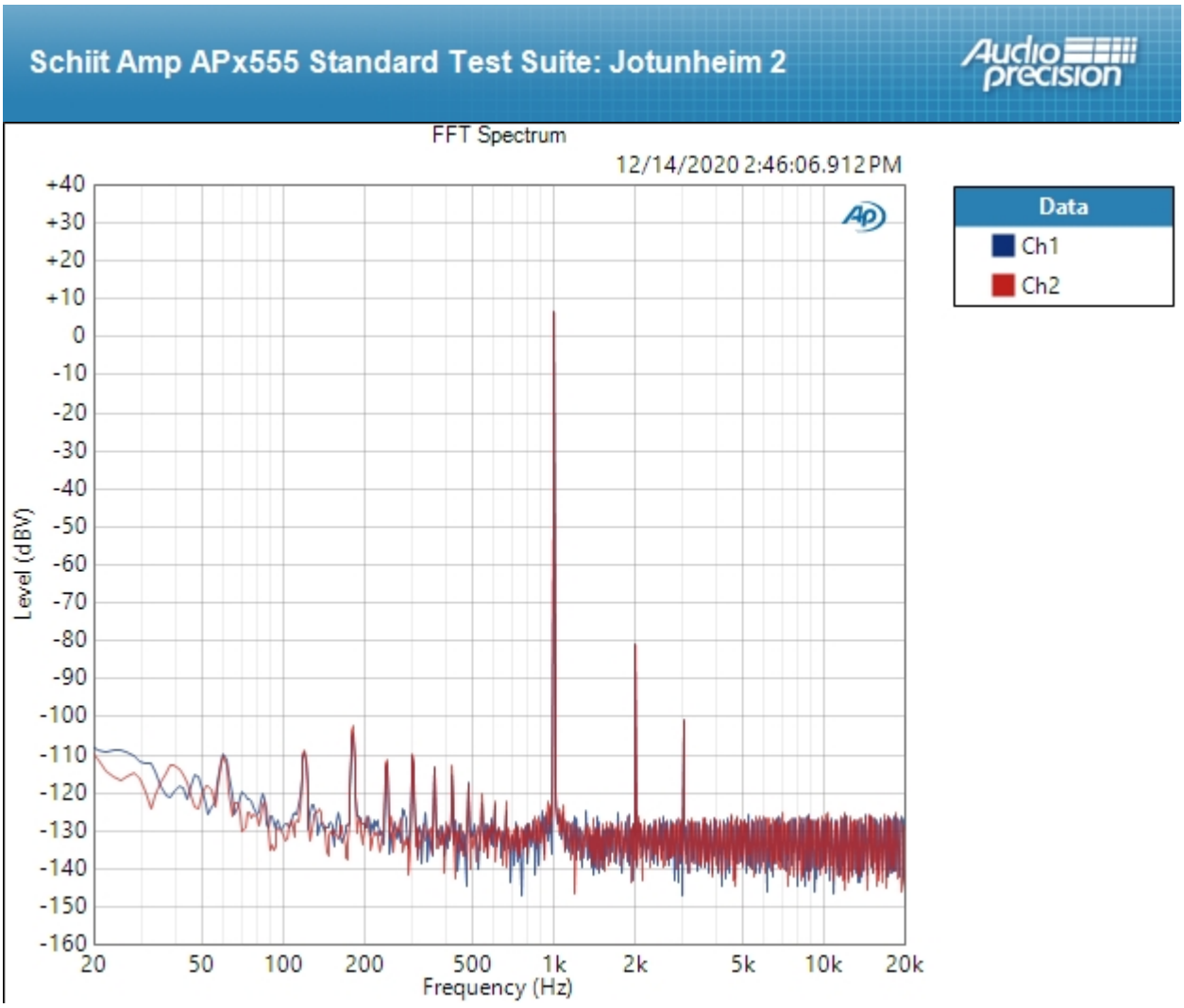
DC Level (12/14/2020 2:46:03.153 PM)

Ch1 1.749 mV
Ch2 718.6 uV

300 Ohm High SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	500.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 2:46:06 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 (12/14/2020 2:46:06.912 PM)

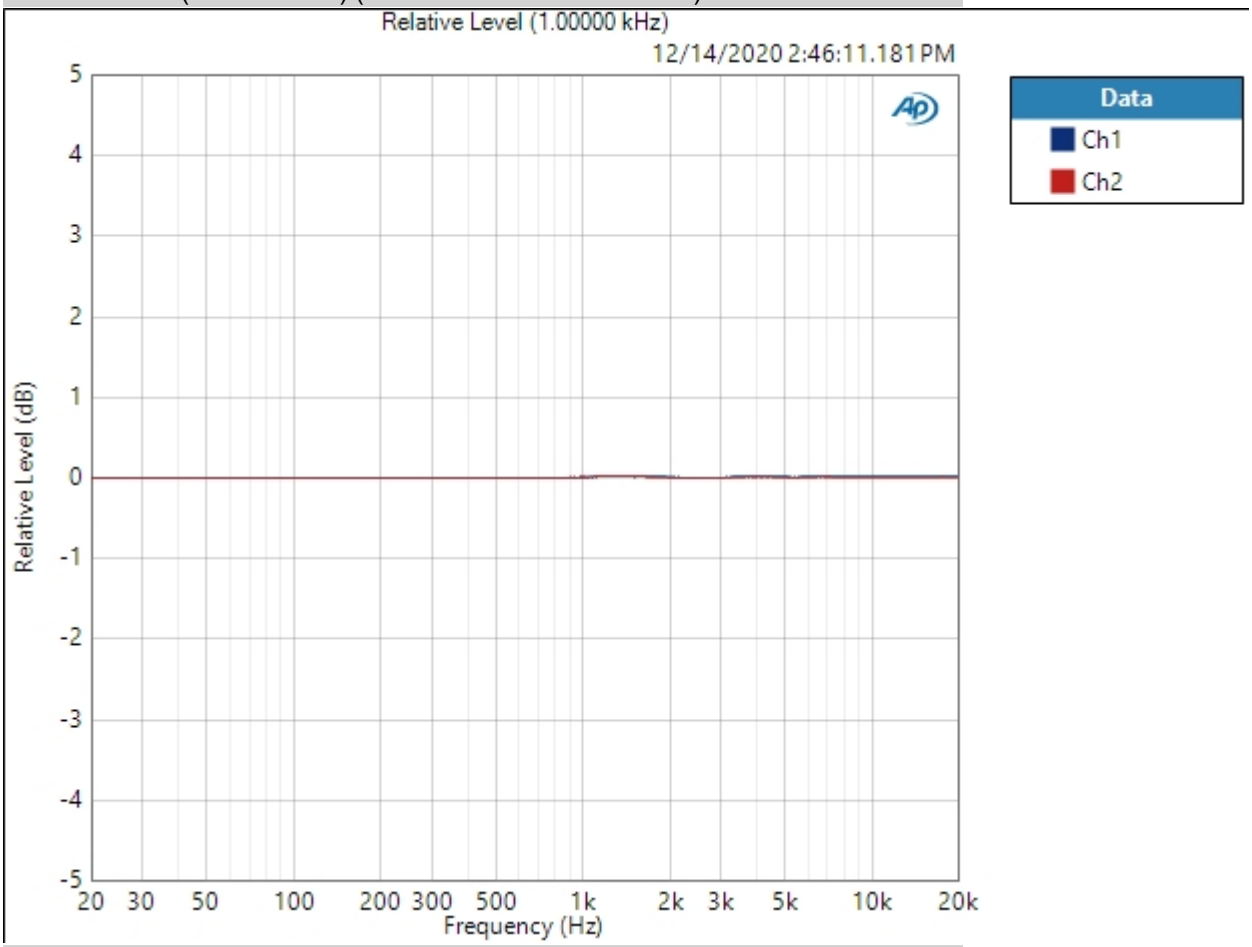


Result: PASSED

300 Ohm High SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	225.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 2:46:11 PM

Relative Level (1.00000 kHz) (12/14/2020 2:46:11.181 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) (12/14/2020 2:46:11.181 PM)

Ch1 ±0.010 dB

Ch2 ±0.008 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	500.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 2:46:13.231 PM)

Ch1 102.917 dB

Ch2 102.902 dB

300 Ohm High SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	500.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 2:46:15.389 PM)

Ch1	0.004459 %
Ch2	0.004493 %

THD Ratio (12/14/2020 2:46:15.389 PM)

Ch1	0.004351 %
Ch2	0.004374 %

Noise Ratio (12/14/2020 2:46:15.389 PM)

Ch1	0.001014 %
Ch2	0.001006 %

Distortion Product Ratio (12/14/2020 2:46:15.389 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-87.27	-107.63	-126.37	-130.50	-127.81	-131.38	-129.35	-129.35	-132.09
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-87.23	-107.73	-128.37	-128.45	-132.17	-130.50	-134.89	-131.98	-127.82

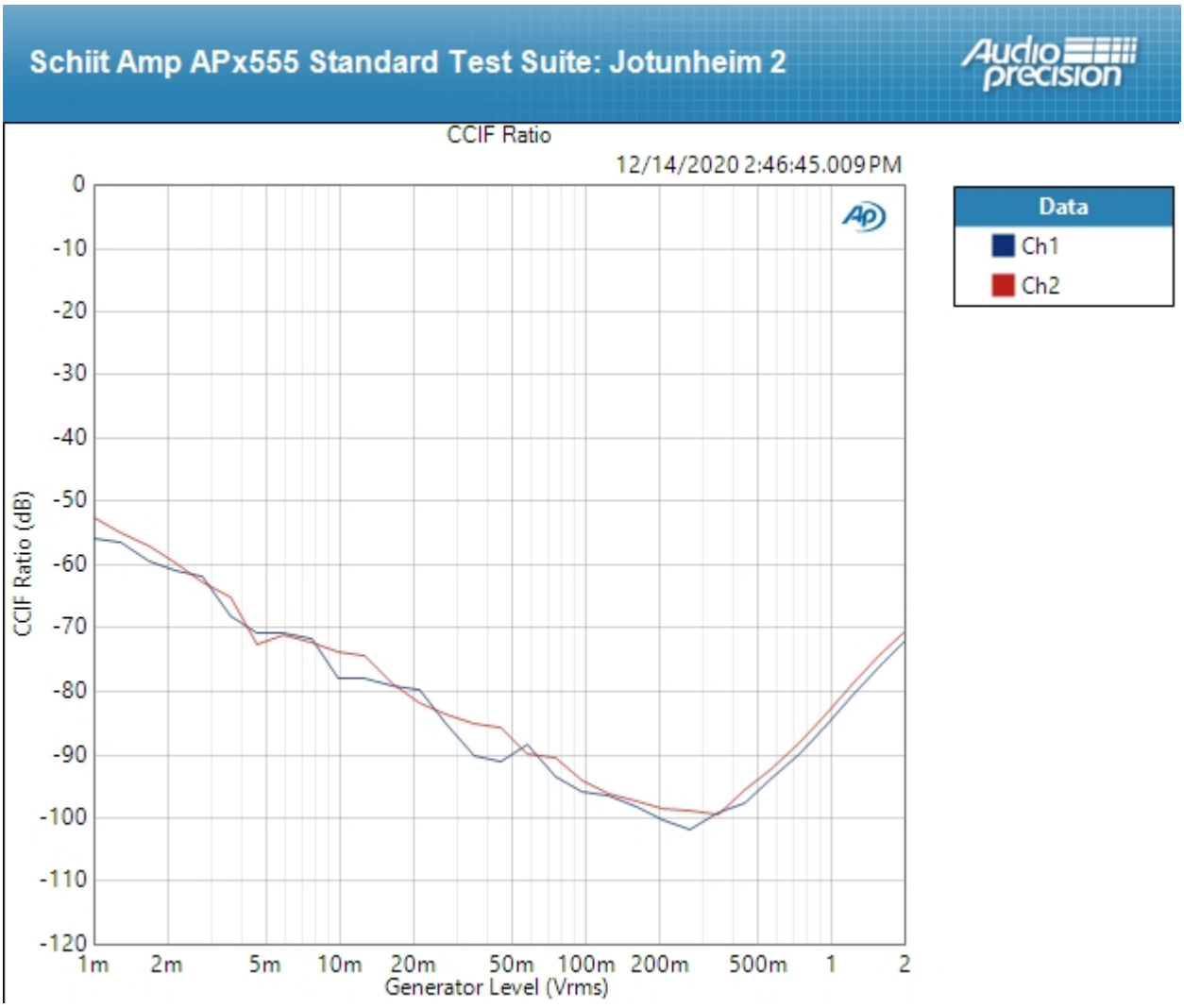
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

300 Ohm High SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	2.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	2.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 2:46:45 PM

CCIF Ratio (12/14/2020 2:46:45.009 PM)

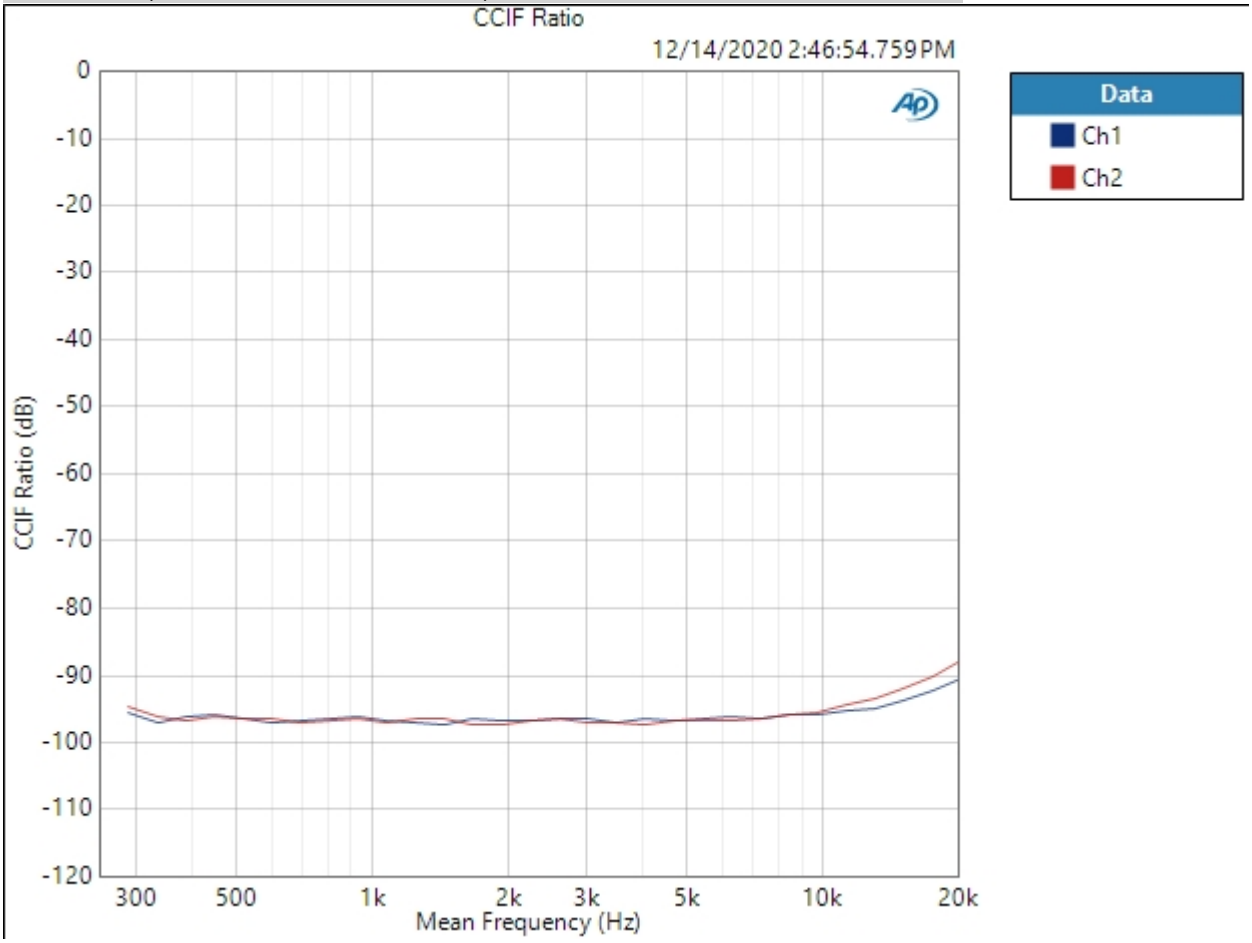


Result: PASSED

300 Ohm High SE : IMD Frequency Sweep (CCIF)

Generator Level:	500.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 2:46:54 PM

CCIF Ratio (12/14/2020 2:46:54.759 PM)



Result: PASSED

300 Ohm High SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	500.0 mVrms
Frequency:	10.0000 kHz

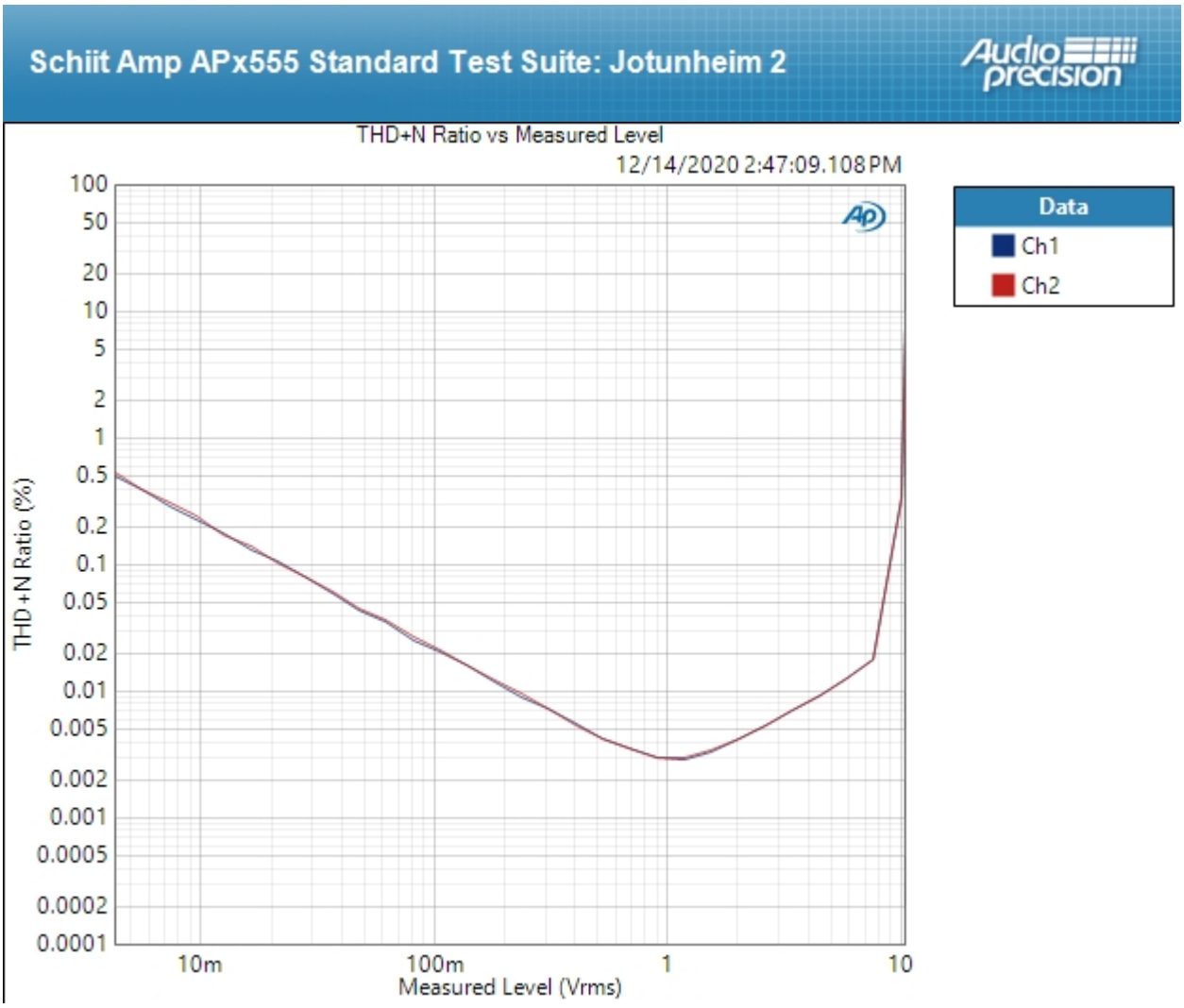
Crosstalk (12/14/2020 2:46:57.389 PM)

Ch1 89.640 dB
Ch2 90.344 dB

300 Ohm High SE : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	3.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 2:47:09 PM

THD+N Ratio vs Measured Level (12/14/2020 2:47:09.108 PM)



Result: PASSED

32 Ohm Low SE : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

32 Ohm Low SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.000 Vrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 2:48:03.409 PM)

Ch1 0.967 Vrms
Ch2 0.966 Vrms

32 Ohm Low SE : 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

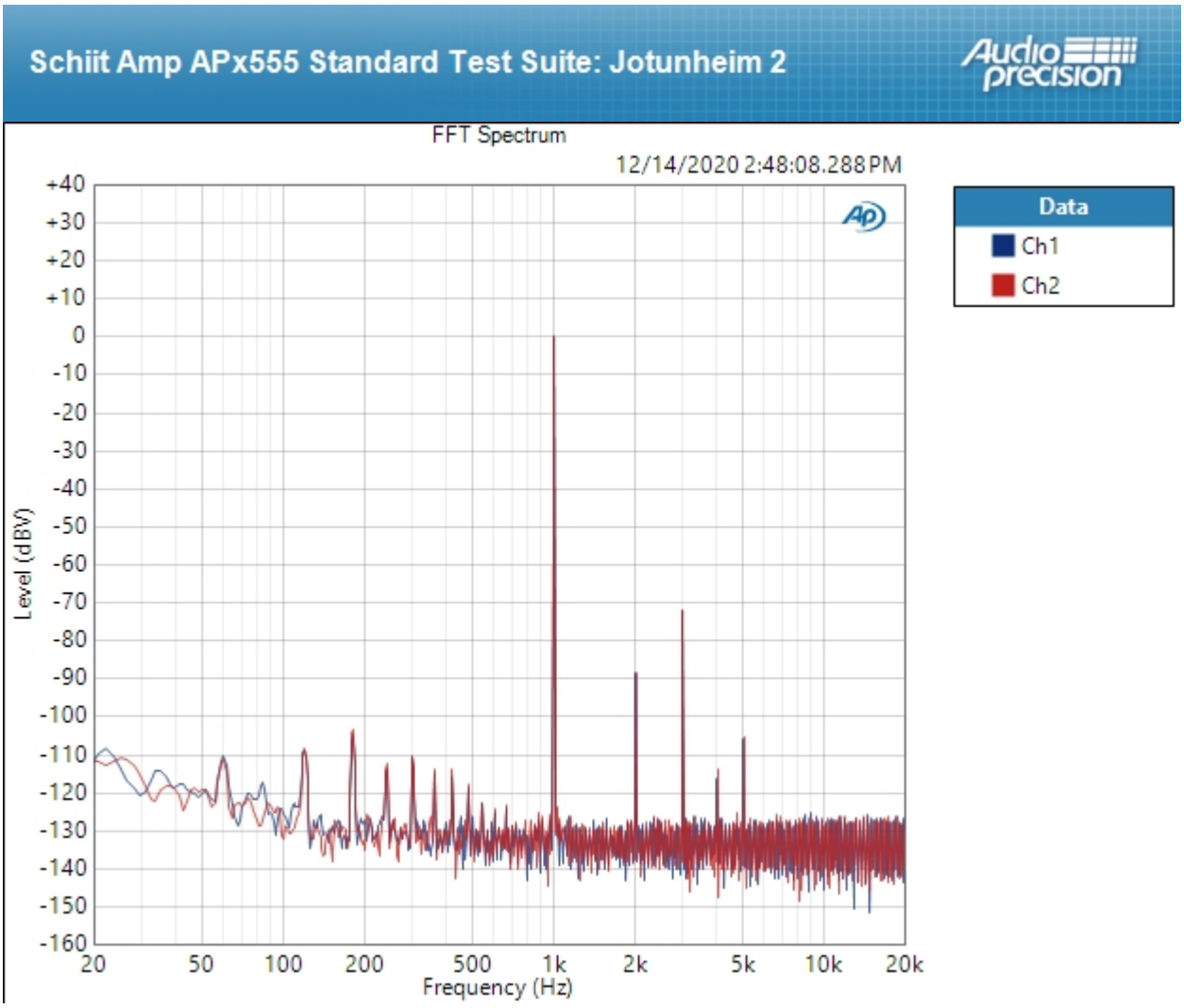
DC Level (12/14/2020 2:48:04.558 PM)

Ch1 421.5 uV
Ch2 298.4 uV

32 Ohm Low SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 2:48:08 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 (12/14/2020 2:48:08.288 PM)

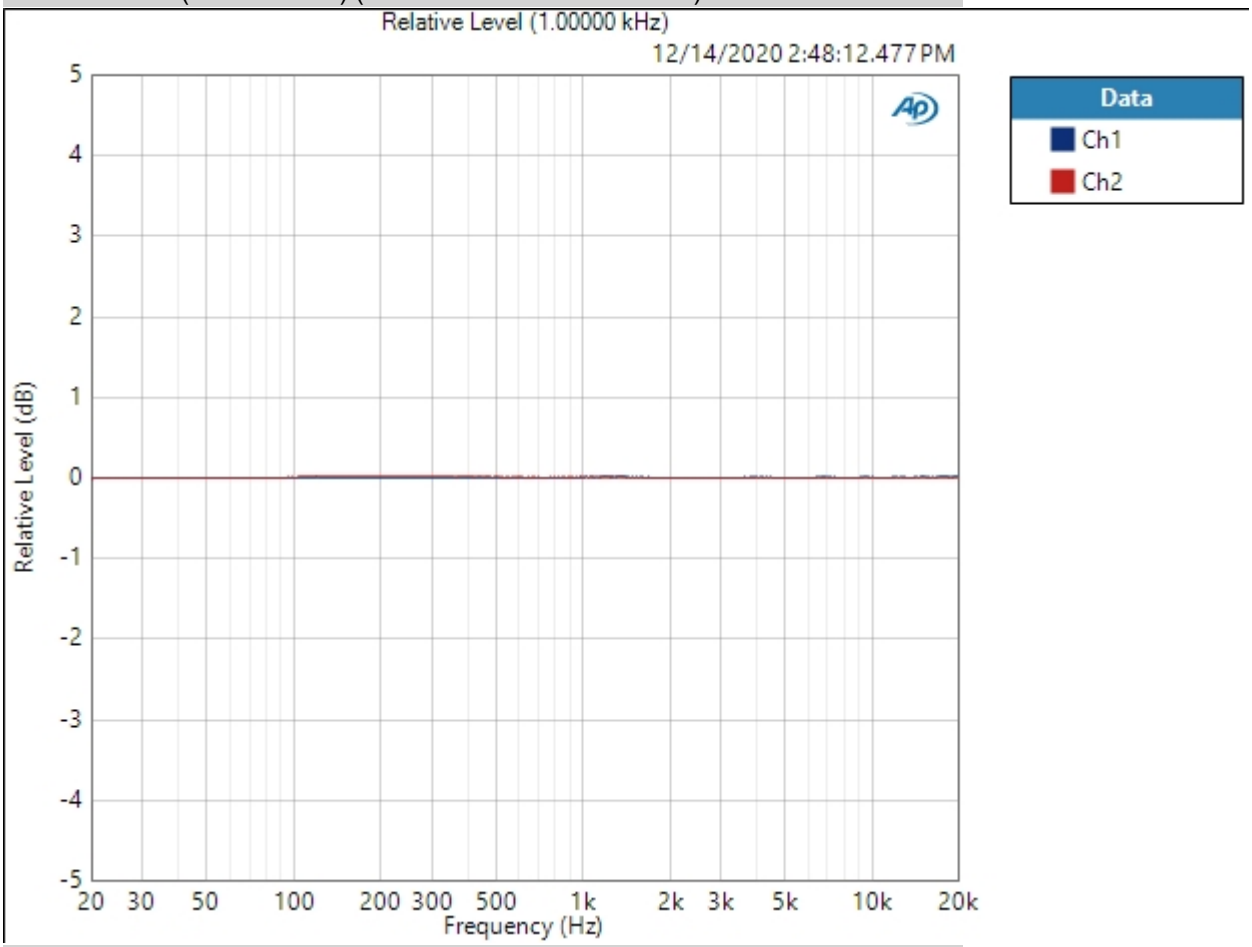


Result: PASSED

32 Ohm Low SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	1.000 Vrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 2:48:12 PM

Relative Level (1.00000 kHz) (12/14/2020 2:48:12.477 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) (12/14/2020 2:48:12.477 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

32 Ohm Low SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 2:48:14.516 PM)

Ch1 96.609 dB

Ch2 96.500 dB

32 Ohm Low SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 2:48:16.405 PM)

Ch1	0.026709 %
Ch2	0.026972 %

THD Ratio (12/14/2020 2:48:16.405 PM)

Ch1	0.026601 %
Ch2	0.026717 %

Noise Ratio (12/14/2020 2:48:16.405 PM)

Ch1	0.002057 %
Ch2	0.002079 %

Distortion Product Ratio (12/14/2020 2:48:16.405 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-88.07	-71.60	-115.55	-105.16	-126.46	-123.39	-120.71	-127.03	-124.90
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-88.48	-71.55	-112.88	-105.49	-124.02	-119.44	-120.50	-119.92	-124.37

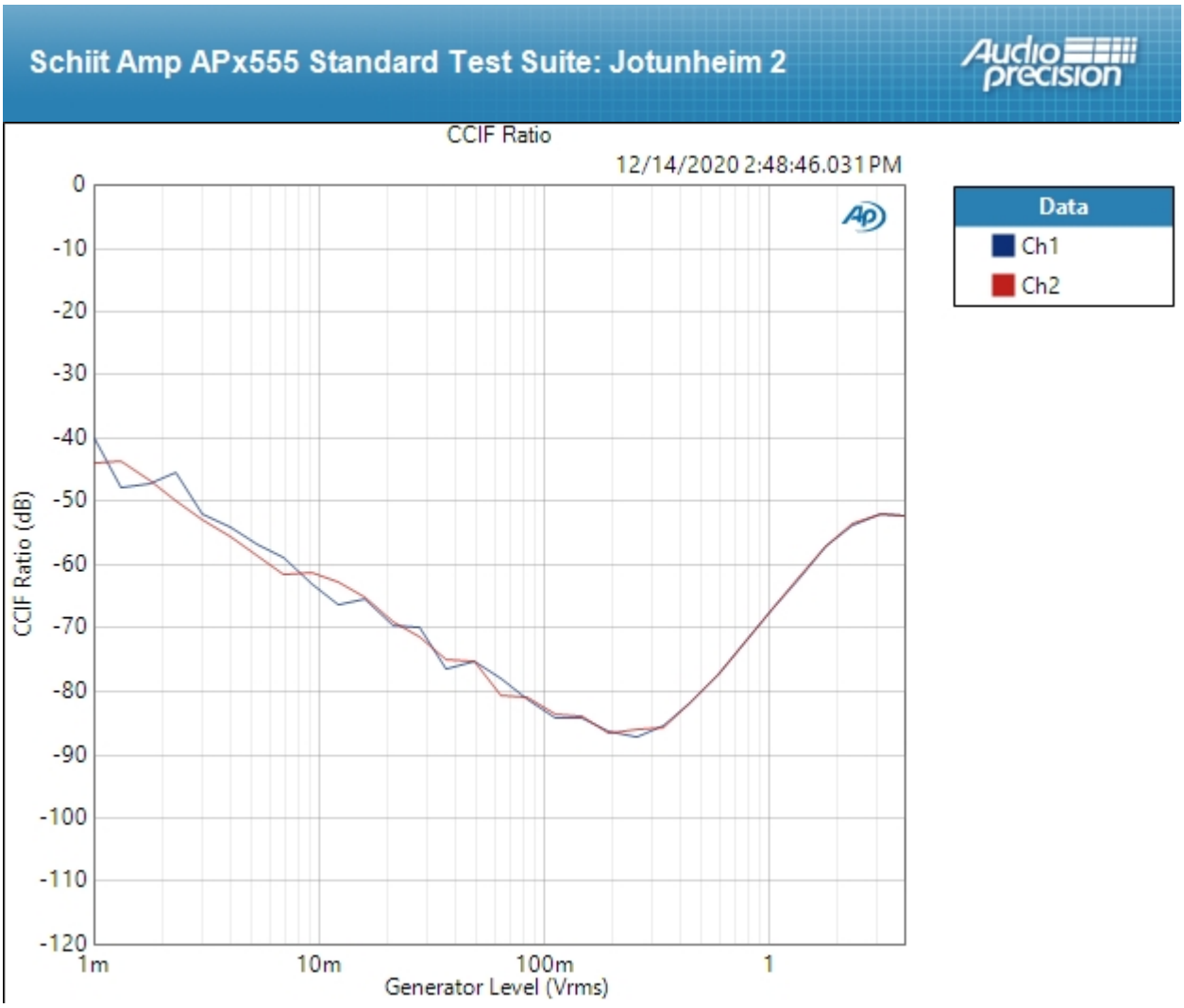
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

32 Ohm Low SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	4.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 2:48:46 PM

CCIF Ratio (12/14/2020 2:48:46.031 PM)

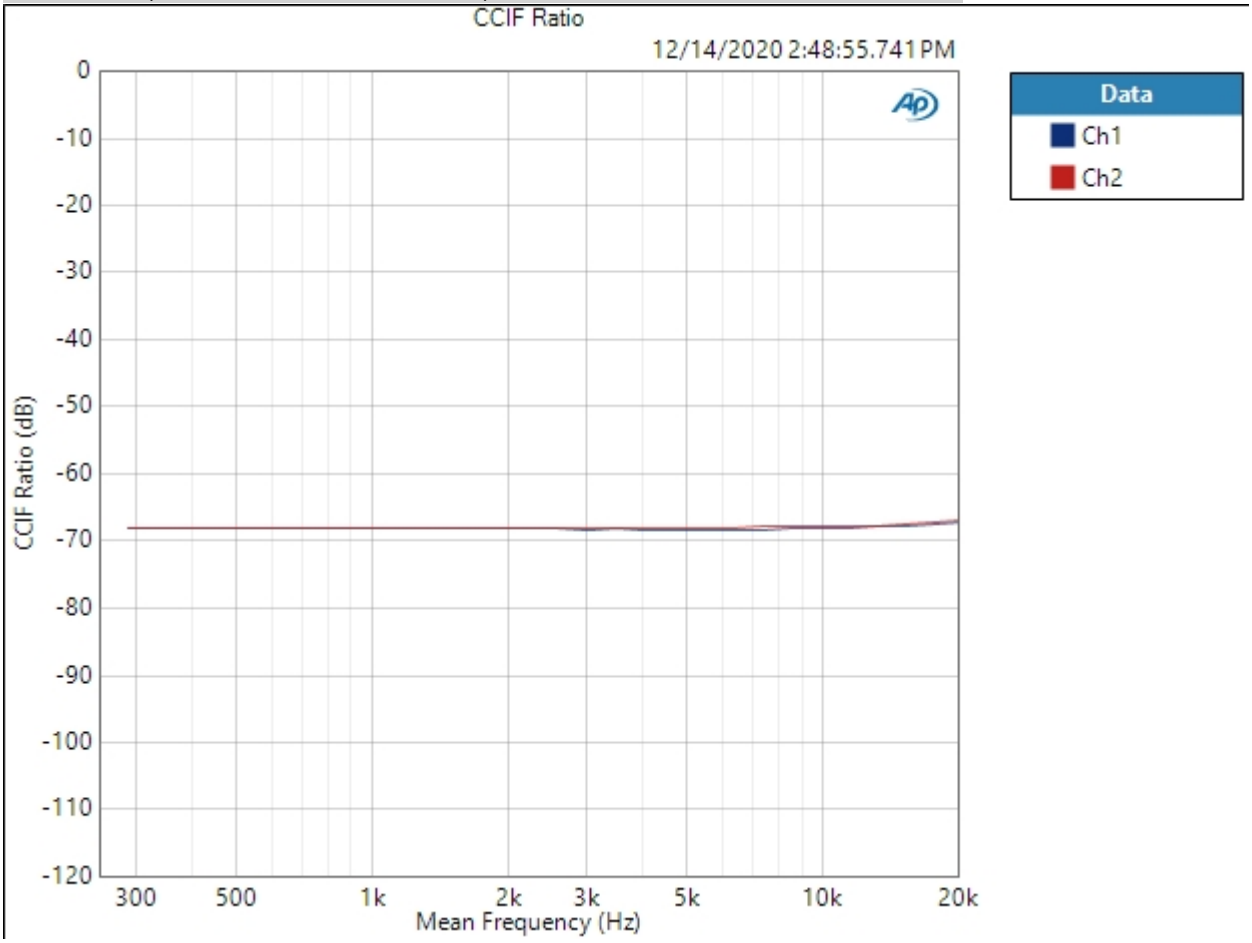


Result: PASSED

32 Ohm Low SE : IMD Frequency Sweep (CCIF)

Generator Level:	1.000 Vrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 2:48:55 PM

CCIF Ratio (12/14/2020 2:48:55.741 PM)



Result: PASSED

32 Ohm Low SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.000 Vrms
Frequency:	10.0000 kHz

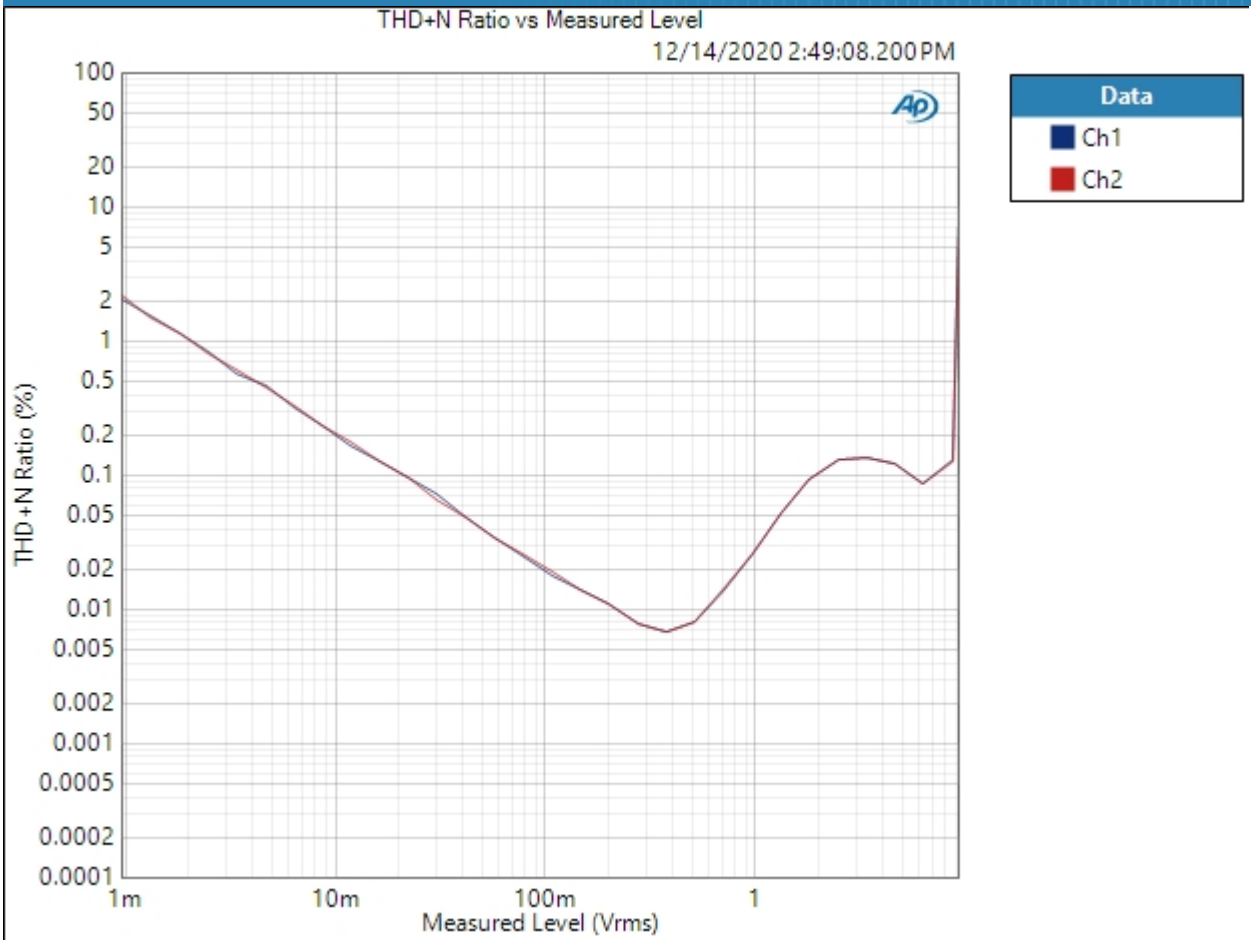
Crosstalk (12/14/2020 2:48:57.051 PM)

Ch1 70.956 dB
Ch2 71.543 dB

32 Ohm Low SE : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 2:49:08 PM

THD+N Ratio vs Measured Level (12/14/2020 2:49:08.200 PM)



Result: PASSED

32 Ohm High SE : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

32 Ohm High SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	250.0 mVrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 2:51:47.285 PM)

Ch1 1.043 Vrms
Ch2 1.042 Vrms

32 Ohm High SE : 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

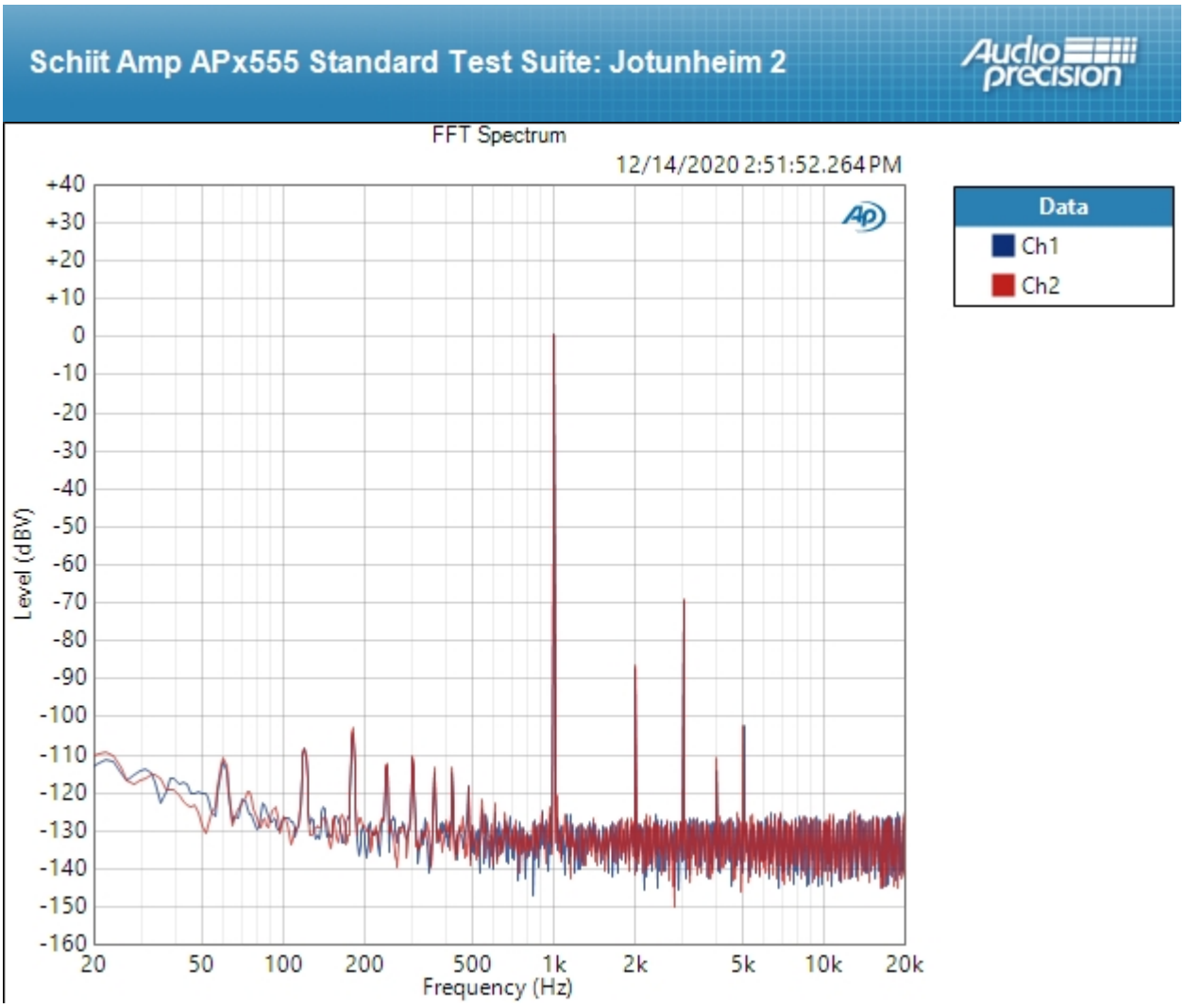
DC Level (12/14/2020 2:51:48.504 PM)

Ch1 2.458 mV
Ch2 3.725 mV

32 Ohm High SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	250.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 2:51:52 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 (12/14/2020 2:51:52.264 PM)

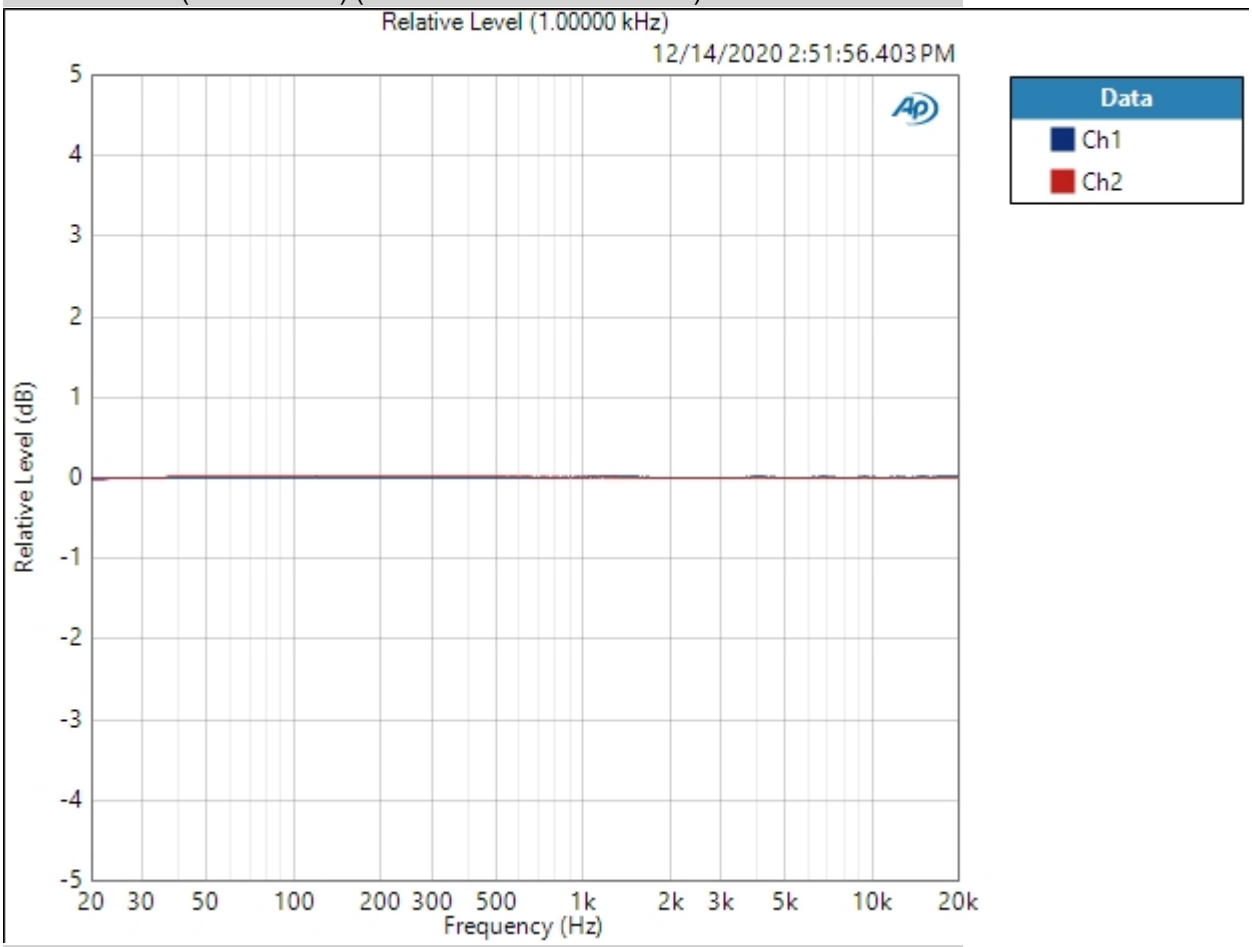


Result: PASSED

32 Ohm High SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	225.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 2:51:56 PM

Relative Level (1.00000 kHz) (12/14/2020 2:51:56.403 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) (12/14/2020 2:51:56.403 PM)

Ch1 ±0.011 dB

Ch2 ±0.017 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm High SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	250.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 2:51:58.452 PM)

Ch1 96.853 dB

Ch2 96.874 dB

32 Ohm High SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	250.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 2:52:00.351 PM)

Ch1	0.031651 %
Ch2	0.033209 %

THD Ratio (12/14/2020 2:52:00.351 PM)

Ch1	0.031530 %
Ch2	0.032980 %

Noise Ratio (12/14/2020 2:52:00.351 PM)

Ch1	0.002052 %
Ch2	0.002002 %

Distortion Product Ratio (12/14/2020 2:52:00.351 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-86.89	-70.12	-113.34	-102.56	-123.75	-118.64	-123.69	-125.38	-128.75
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-86.24	-69.73	-111.64	-102.61	-121.74	-125.84	-124.68	-129.19	-123.64

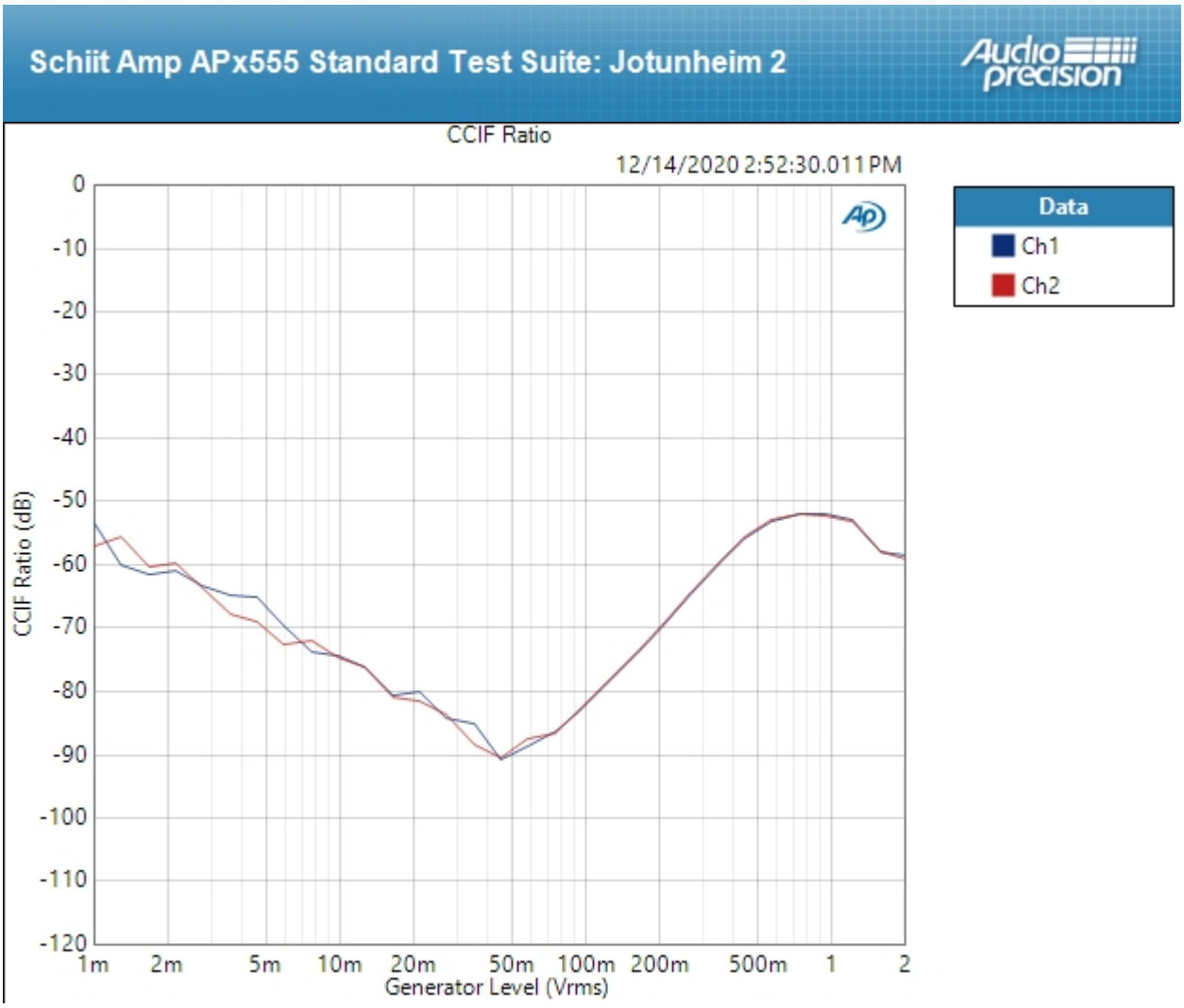
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

32 Ohm High SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	2.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	2.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 2:52:30 PM

CCIF Ratio (12/14/2020 2:52:30.011 PM)

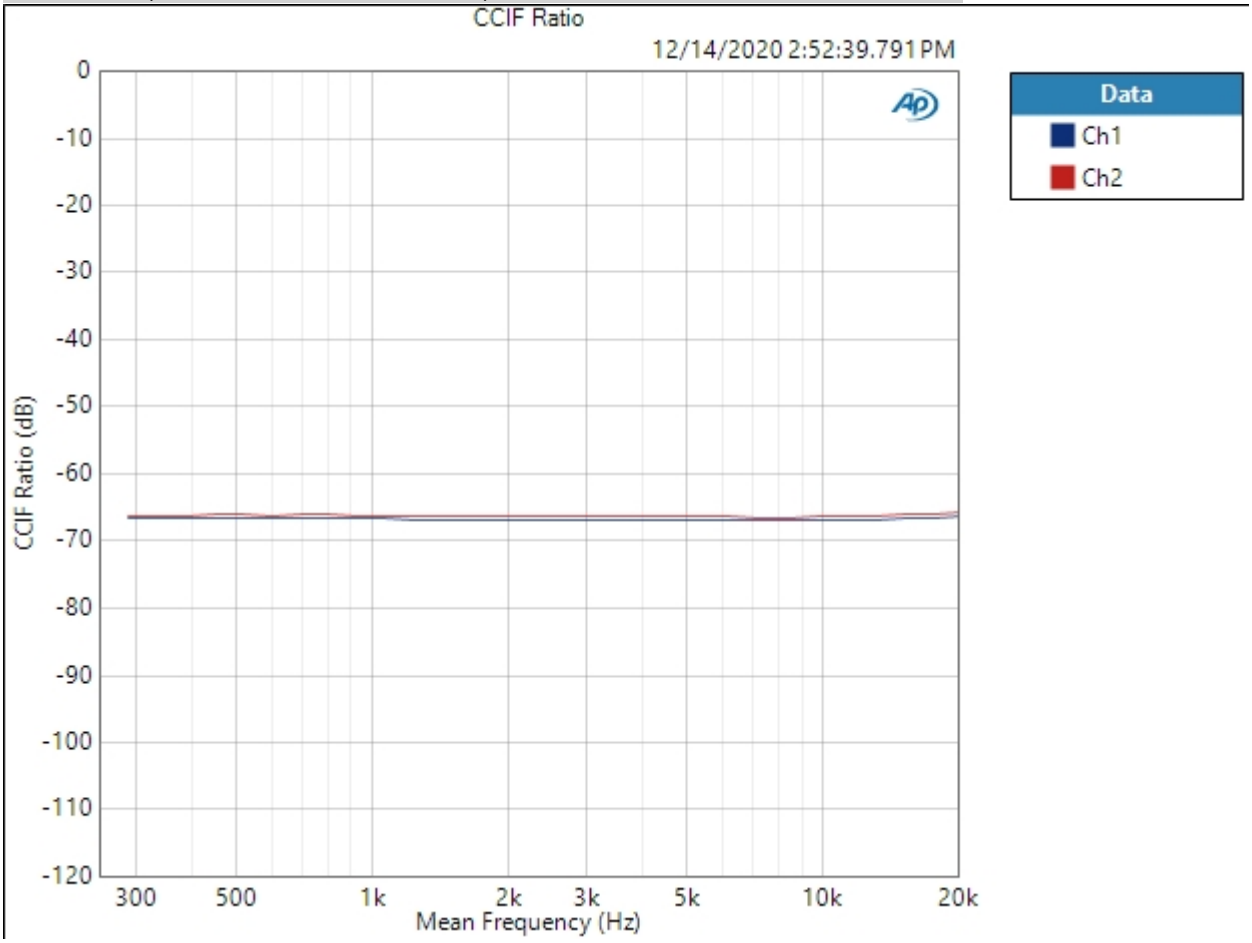


Result: PASSED

32 Ohm High SE : IMD Frequency Sweep (CCIF)

Generator Level:	250.0 mVrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 2:52:39 PM

CCIF Ratio (12/14/2020 2:52:39.791 PM)



Result: PASSED

32 Ohm High SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	250.0 mVrms
Frequency:	10.0000 kHz

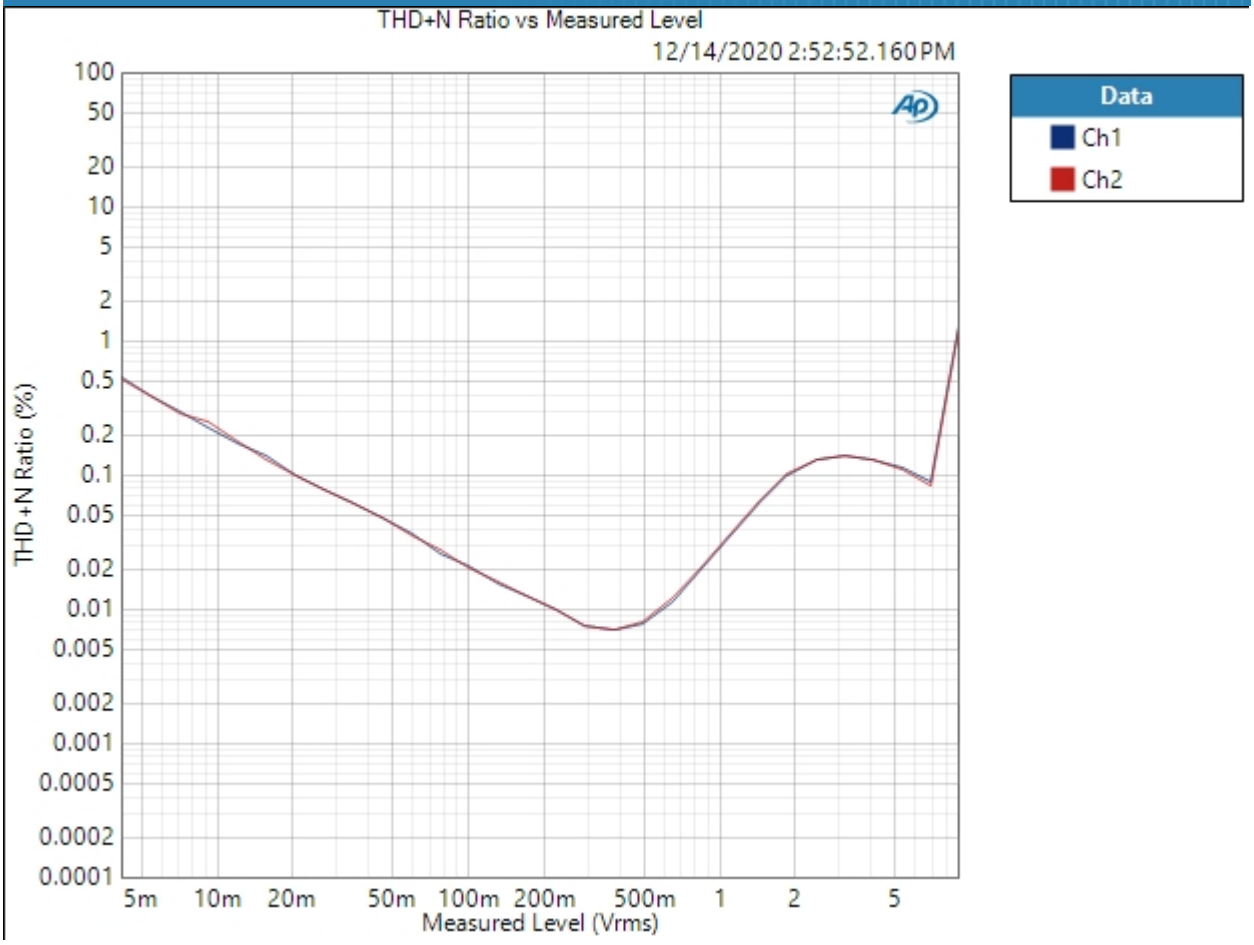
Crosstalk (12/14/2020 2:52:41.140 PM)

Ch1 70.919 dB
Ch2 72.029 dB

32 Ohm High SE : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	2.800 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 2:52:52 PM

THD+N Ratio vs Measured Level (12/14/2020 2:52:52.160 PM)



Result: PASSED

Preamp Balanced : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	2
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

Preamp Balanced : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 3:01:30.077 PM)

Ch1 3.989 Vrms
Ch2 3.989 Vrms

Preamp Balanced : 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

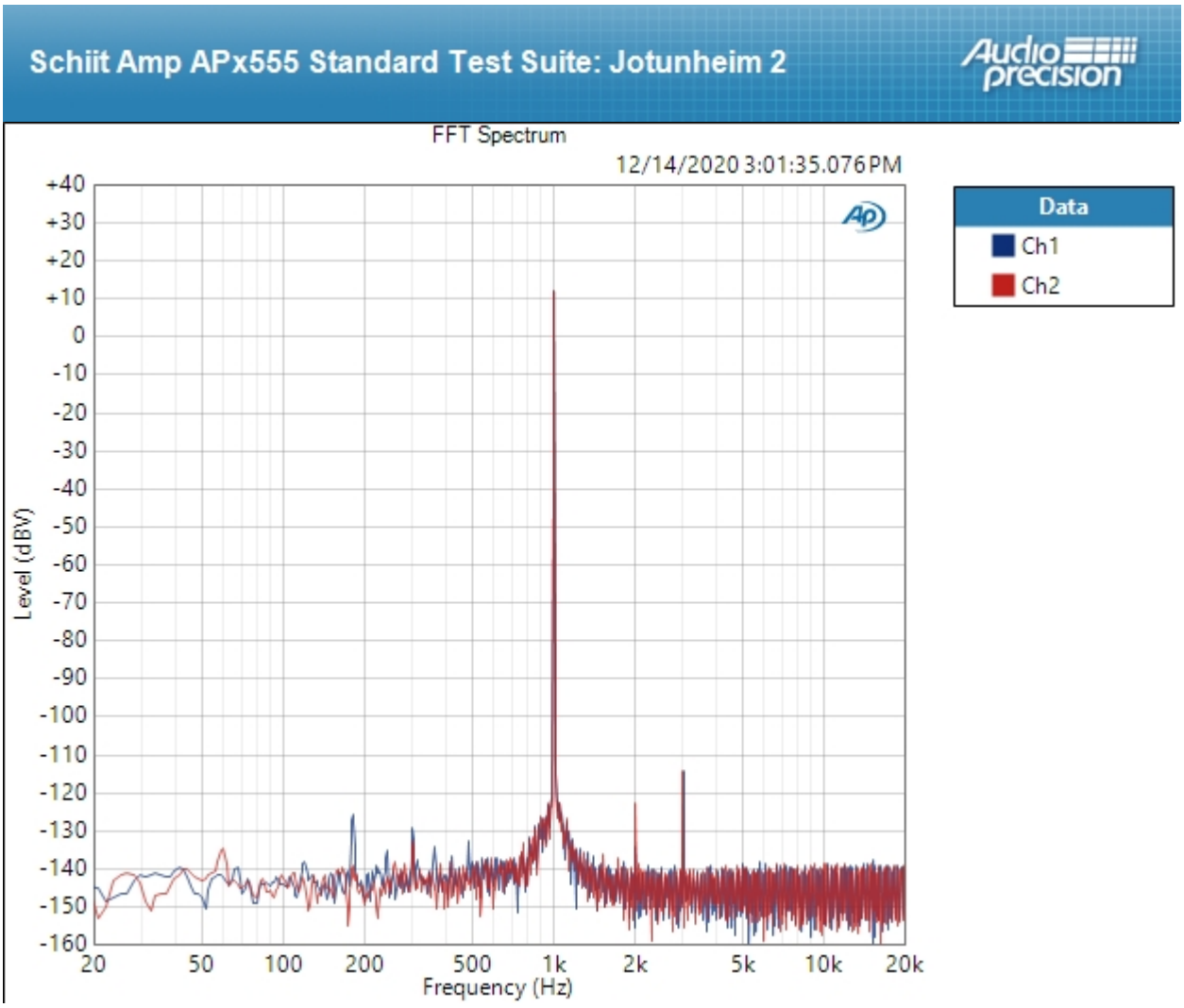
DC Level (12/14/2020 3:01:31.257 PM)

Ch1 -833.3 uV
Ch2 1.926 mV

Preamp Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 3:01:35 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 (12/14/2020 3:01:35.076 PM)

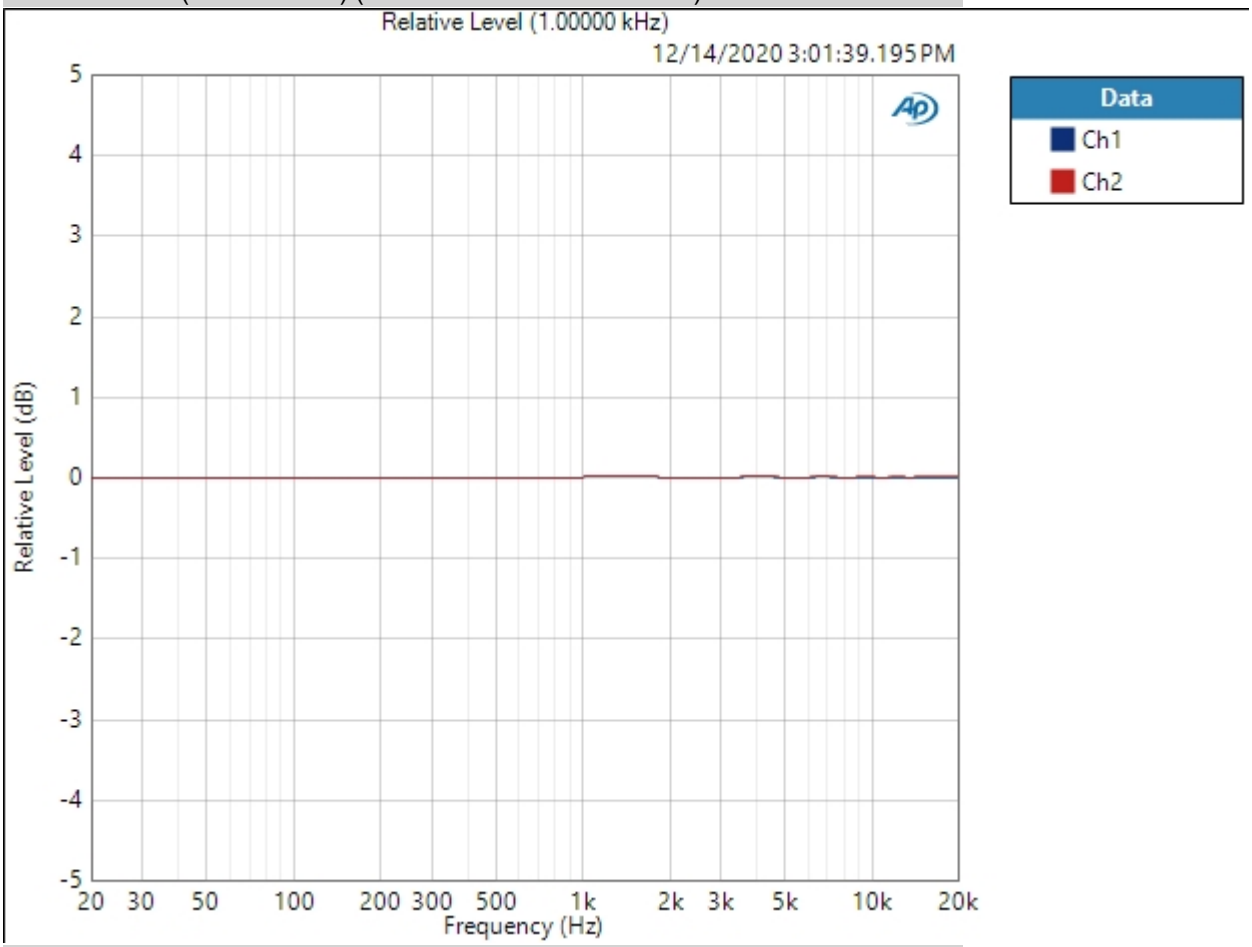


Result: PASSED

Preamp Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	2.000 Vrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 3:01:39 PM

Relative Level (1.00000 kHz) (12/14/2020 3:01:39.195 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) (12/14/2020 3:01:39.195 PM)

Ch1 ±0.003 dB

Ch2 ±0.004 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Preamp Balanced : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 3:01:41.254 PM)

Ch1 124.459 dB

Ch2 124.558 dB

Preamp Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 3:01:43.643 PM)

Ch1	0.000118 %
Ch2	0.000120 %

THD Ratio (12/14/2020 3:01:43.643 PM)

Ch1	0.000050 %
Ch2	0.000058 %

Noise Ratio (12/14/2020 3:01:43.643 PM)

Ch1	0.000106 %
Ch2	0.000104 %

Distortion Product Ratio (12/14/2020 3:01:43.643 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-148.30	-126.63	-148.45	-149.51	-147.17	-142.81	-146.13	-151.45	-146.21
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-133.69	-125.68	-148.52	-148.16	-152.21	-151.51	-148.77	-153.38	-143.51

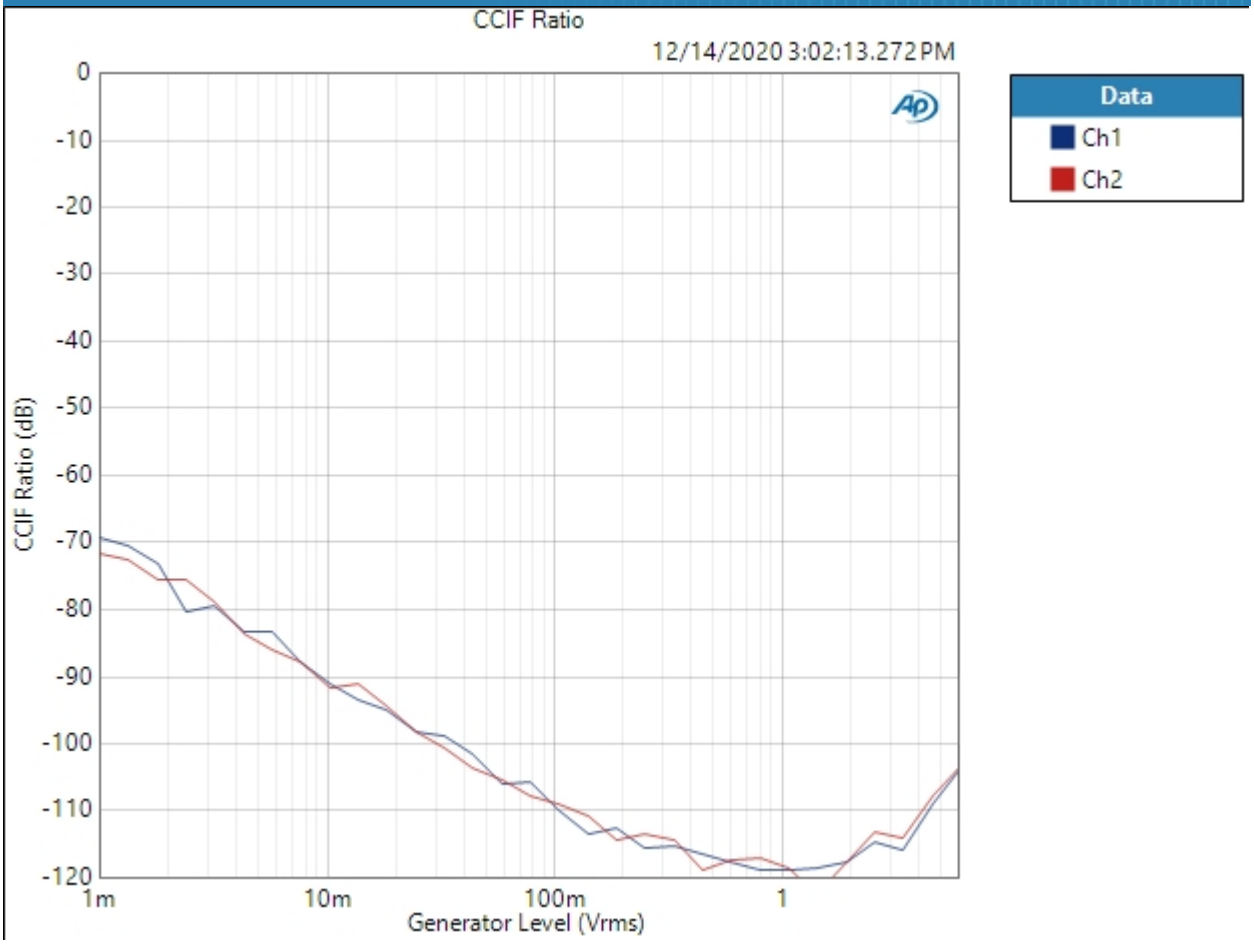
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

Preamp Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	6.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	6.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 3:02:13 PM

CCIF Ratio (12/14/2020 3:02:13.272 PM)

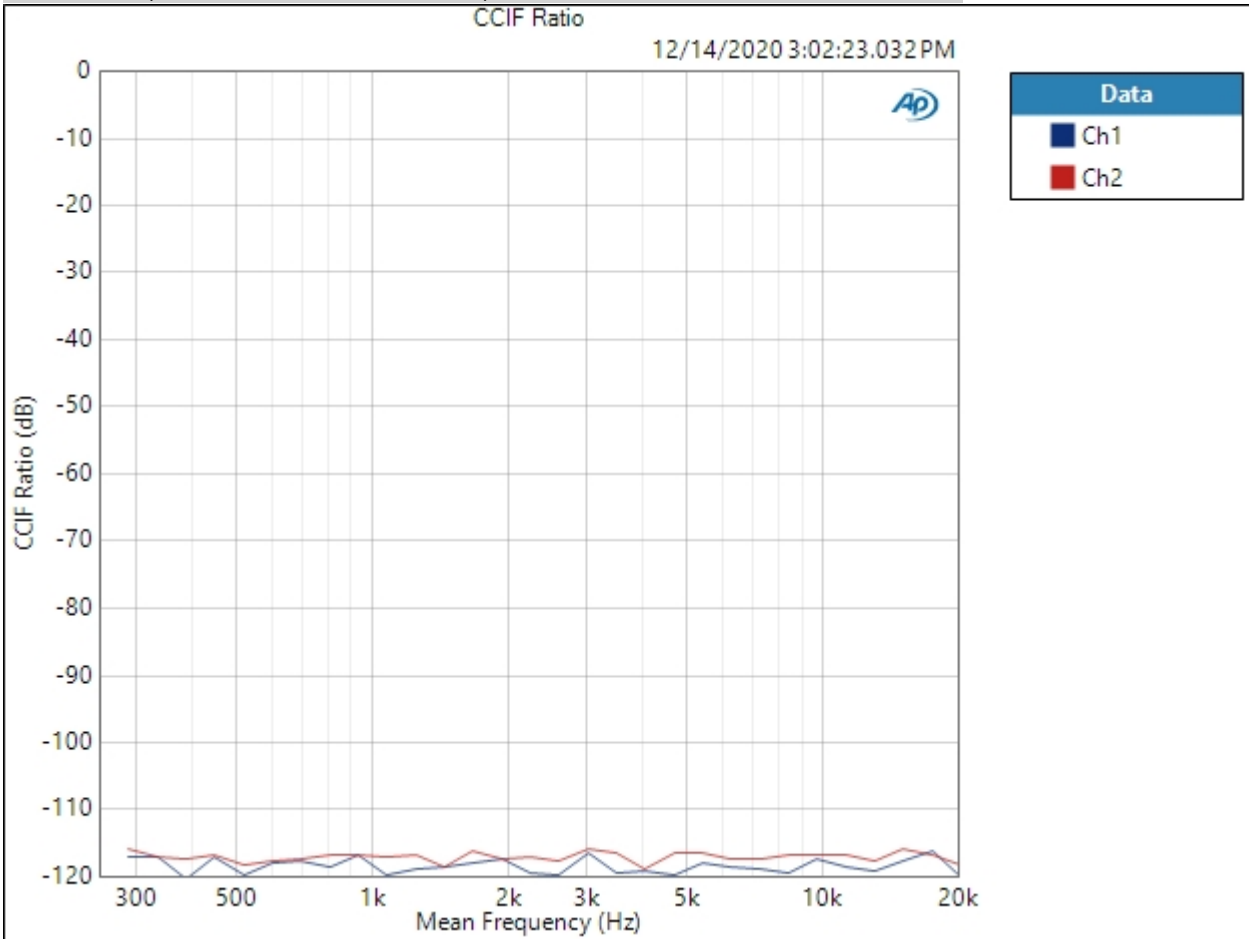


Result: PASSED

Preamp Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	2.000 Vrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 3:02:23 PM

CCIF Ratio (12/14/2020 3:02:23.032 PM)



Result: PASSED

Preamp Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	10.0000 kHz

Crosstalk (12/14/2020 3:02:26.921 PM)

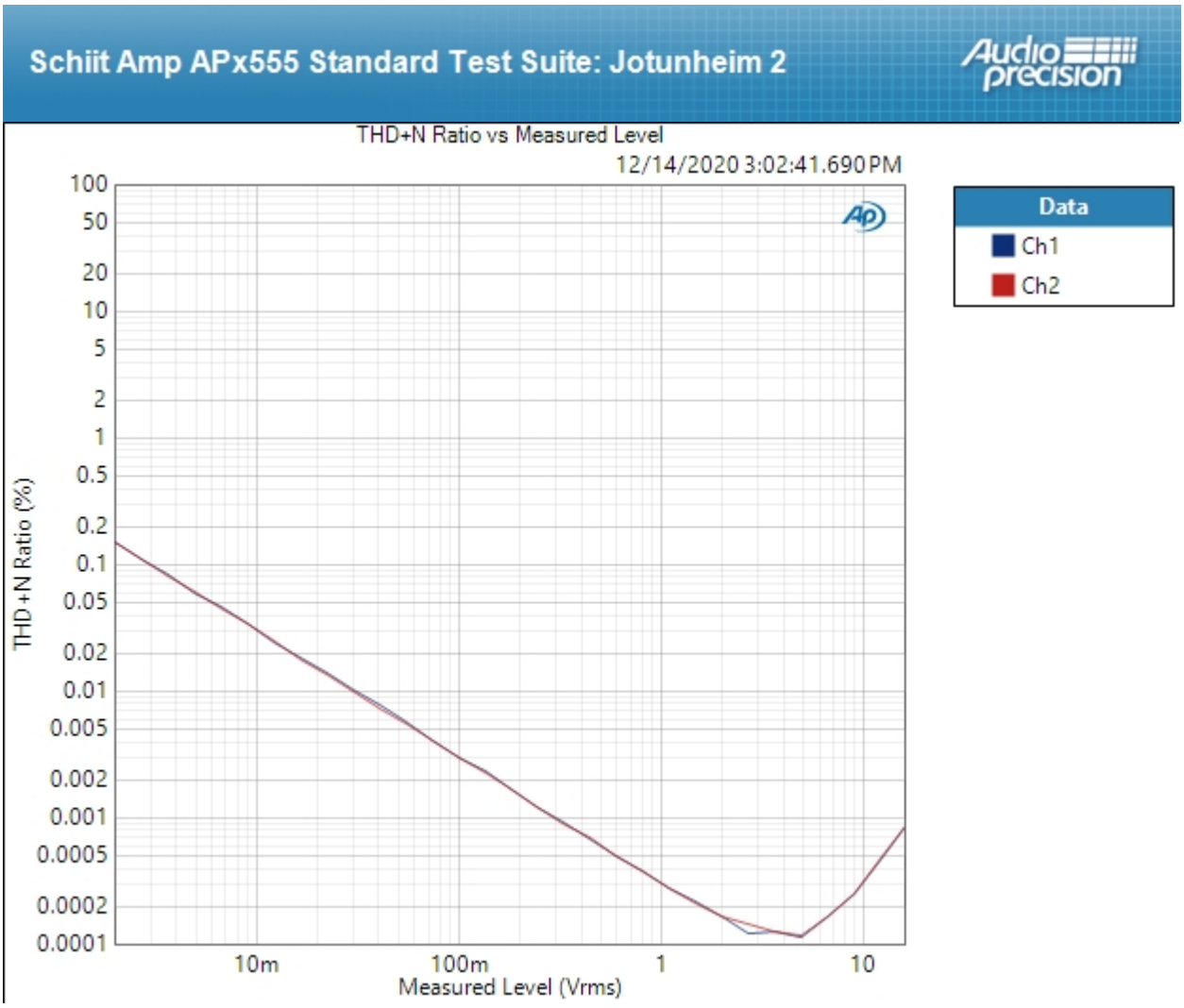
Ch1 -128.015 dB

Ch2 -130.220 dB

Preamp Balanced : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	8.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 3:02:41 PM

THD+N Ratio vs Measured Level (12/14/2020 3:02:41.690 PM)



Result: PASSED

Preamp SE : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Unbalanced
Channels:	2
Termination:	100 kohm
High Performance Sine Analyzer:	Enabled
Input Bandwidth:	AC (<10 Hz) - 22.4k (48 kHz SR)
Device Delay:	0.000 s
Input EQ:	None

• 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
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

Preamp SE : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz

RMS Level (12/14/2020 2:54:05.393 PM)

Ch1 1.991 Vrms
Ch2 1.990 Vrms

Preamp SE : 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

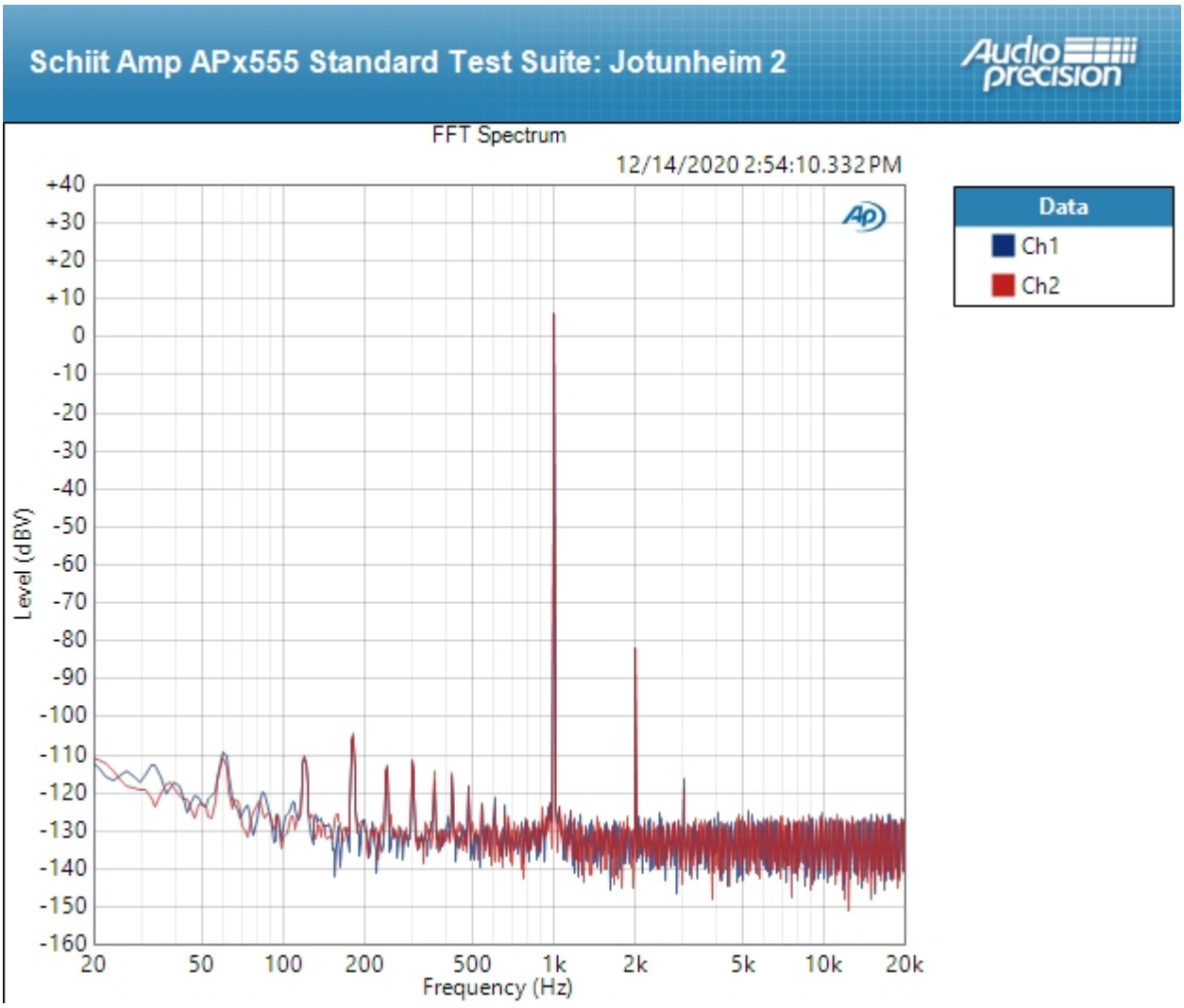
DC Level (12/14/2020 2:54:06.572 PM)

Ch1 1.875 mV
Ch2 2.710 mV

Preamp SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	12/14/2020 2:54:10 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 (12/14/2020 2:54:10.332 PM)

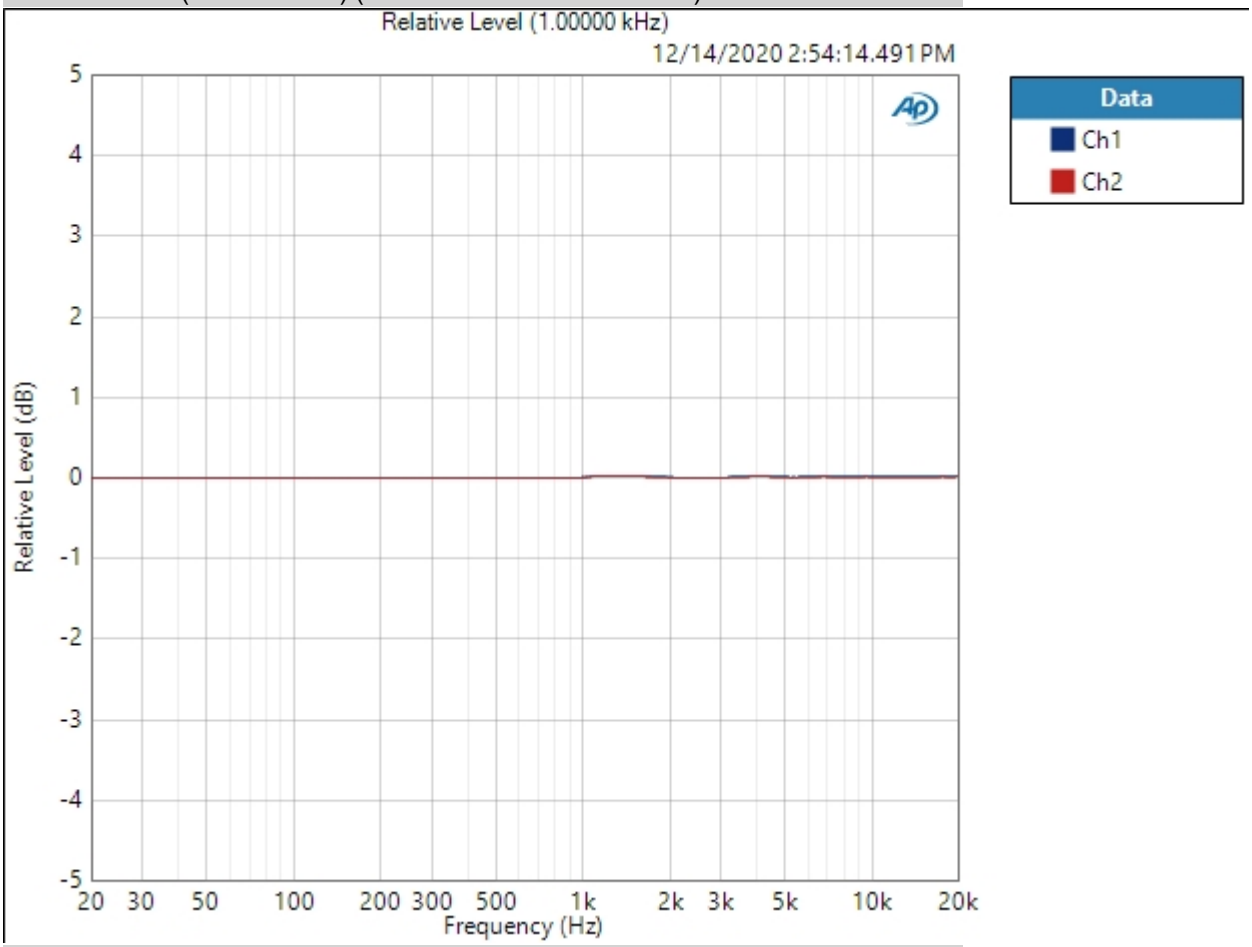


Result: PASSED

Preamp SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	2.000 Vrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	1.000 s
Secondary Source:	None
Measured 1	12/14/2020 2:54:14 PM

Relative Level (1.00000 kHz) (12/14/2020 2:54:14.491 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) (12/14/2020 2:54:14.491 PM)

Ch1 ±0.009 dB

Ch2 ±0.008 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

Preamp SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (12/14/2020 2:54:16.566 PM)

Ch1 102.583 dB

Ch2 102.481 dB

Preamp SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Measured Frequency

THD+N Ratio (12/14/2020 2:54:18.475 PM)

Ch1	0.004245 %
Ch2	0.004300 %

THD Ratio (12/14/2020 2:54:18.475 PM)

Ch1	0.004068 %
Ch2	0.004111 %

Noise Ratio (12/14/2020 2:54:18.475 PM)

Ch1	0.001071 %
Ch2	0.001015 %

Distortion Product Ratio (12/14/2020 2:54:18.475 PM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch1	-0.00	-87.82	-122.62	-133.11	-129.18	-130.65	-130.03	-131.64	-130.78	-127.19
	1.000k	2.000k	3.000k	4.000k	5.000k	6.001k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-87.73	-122.02	-134.23	-132.74	-127.85	-129.57	-127.58	-134.75	-128.62

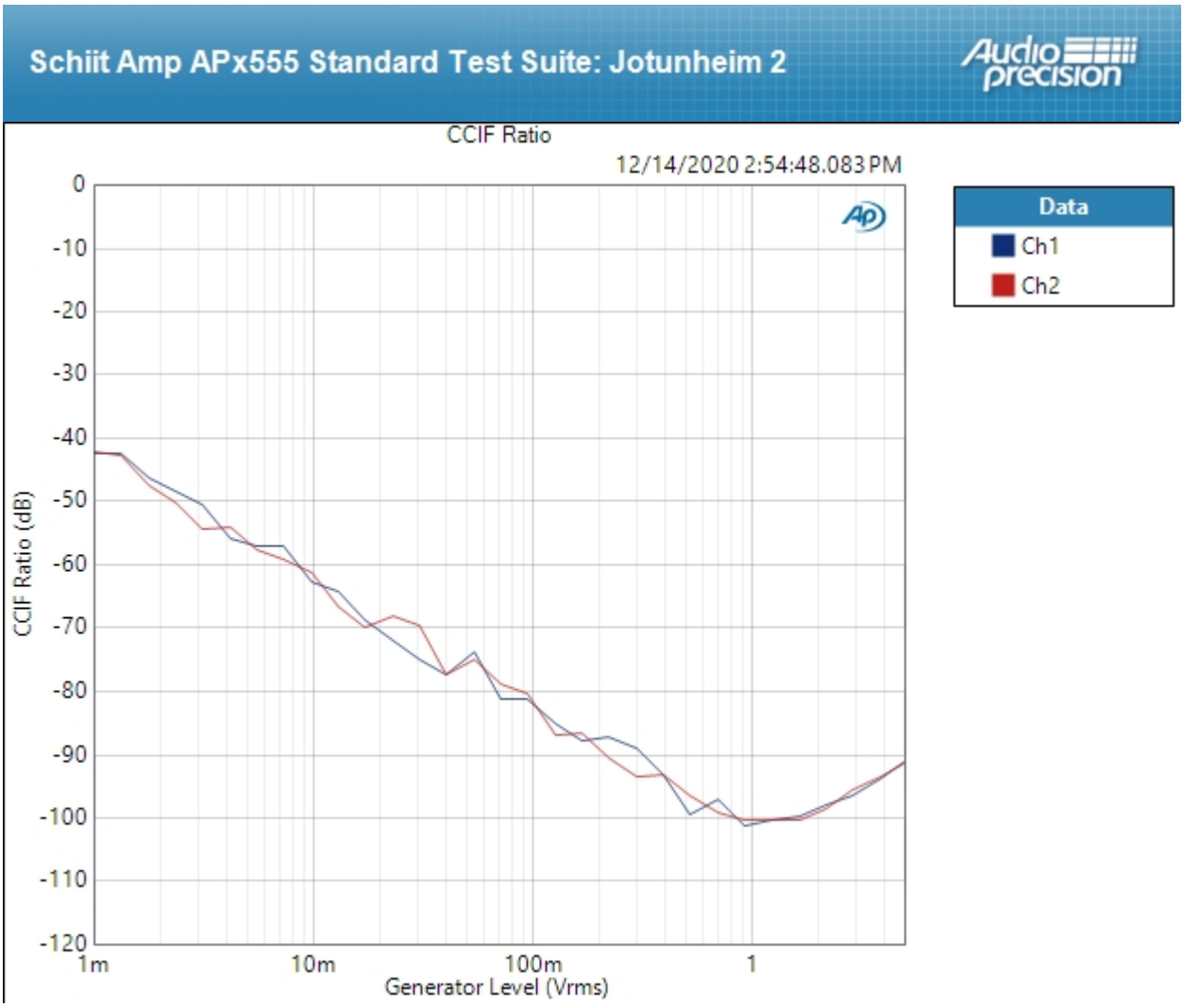
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

Preamp SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	5.000 Vrms
DC Offset:	0.000 V
Mean Frequency:	12.5000 kHz
Diff Frequency:	80.0000 Hz
IMD Split:	False
Start Level:	1.000 mVrms
Stop Level:	5.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	12/14/2020 2:54:48 PM

CCIF Ratio (12/14/2020 2:54:48.083 PM)

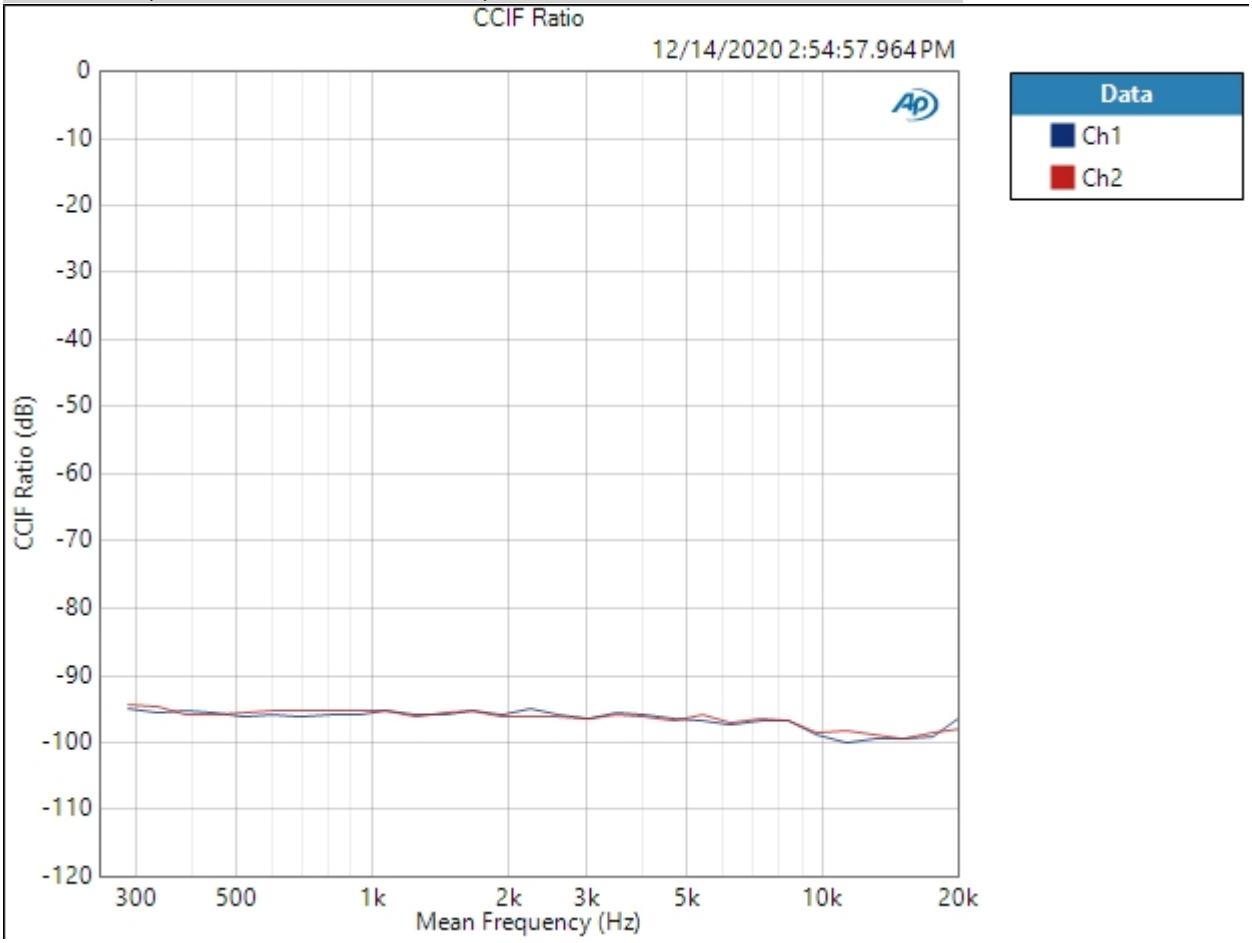


Result: PASSED

Preamp SE : IMD Frequency Sweep (CCIF)

Generator Level:	2.000 Vrms
DC Offset:	0.000 V
Sweep Frequency:	Mean Frequency
Mean Frequency:	12.5000 kHz
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	12/14/2020 2:54:57 PM

CCIF Ratio (12/14/2020 2:54:57.964 PM)



Result: PASSED

Preamp SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	2.000 Vrms
Frequency:	10.0000 kHz

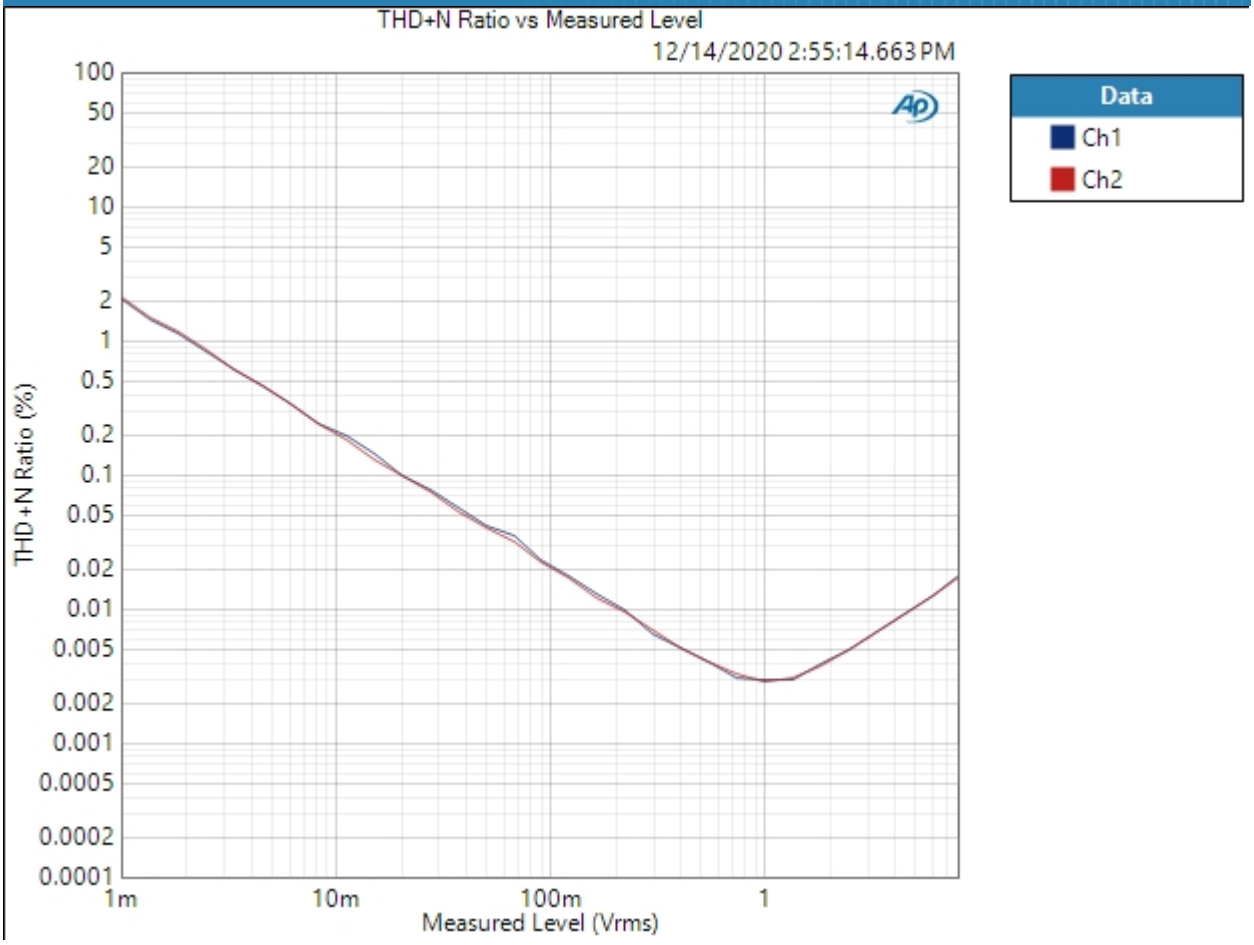
Crosstalk (12/14/2020 2:55:02.954 PM)

Ch1 93.495 dB
Ch2 98.946 dB

Preamp SE : Stepped Level Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	100.0 mVrms
Frequency:	1.00000 kHz
Start Level:	1.000 mVrms
Stop Level:	8.000 Vrms
Step Type:	Logarithmic
Number of Points:	31
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	12/14/2020 2:55:14 PM

THD+N Ratio vs Measured Level (12/14/2020 2:55:14.663 PM)



Result: PASSED