Schiit Amp APx555 Standard Test Suite: Magnius

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:	3.851 Vrms
Frequency:	1.00000 kHz

RMS Level (7/21/2020 12:52:59.342 PM)

Ch1 3.994 Vrms
Ch2 3.995 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

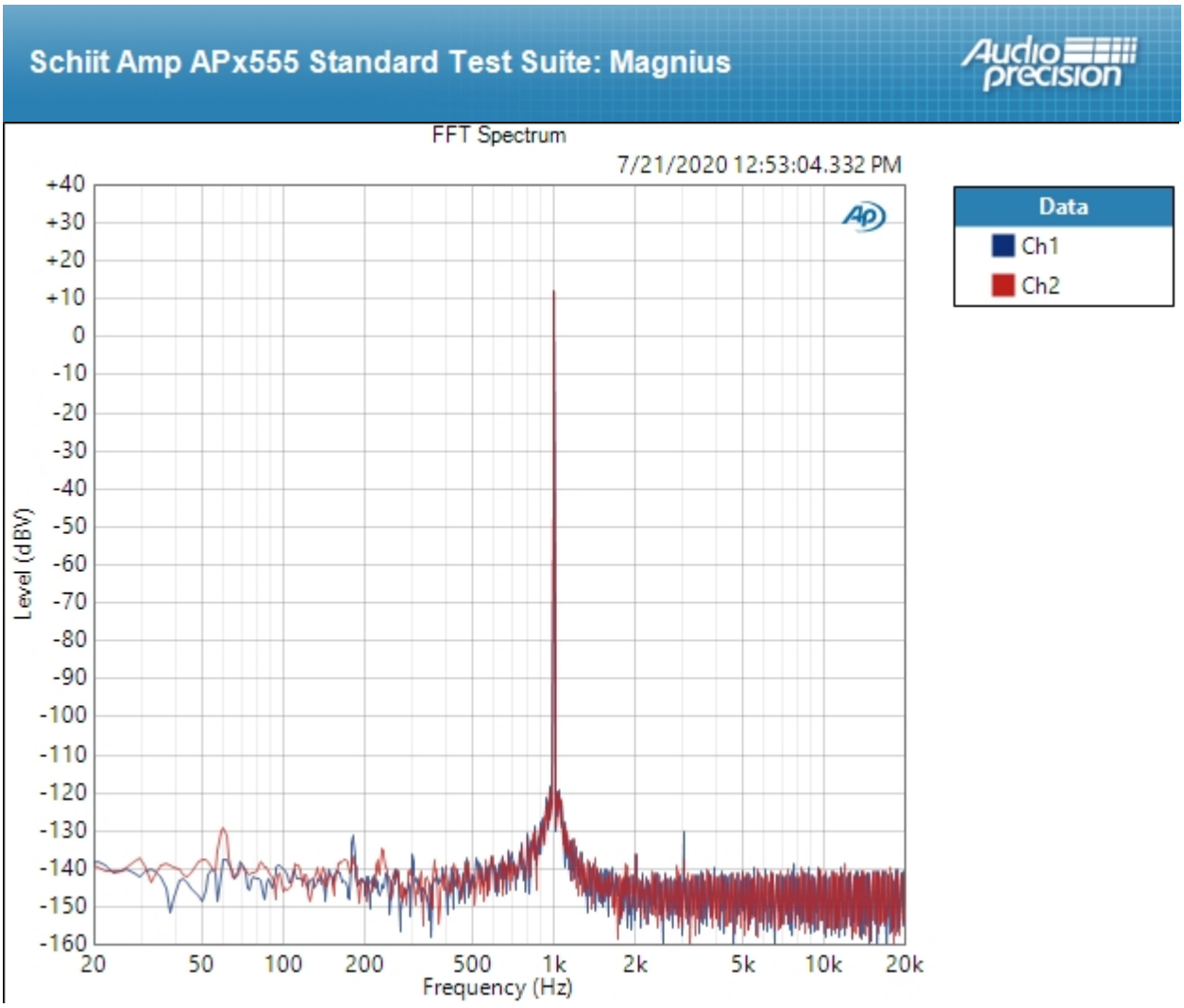
DC Level (7/21/2020 12:53:00.542 PM)

Ch1 -351.6 uV
Ch2 275.1 uV

300 Ohm Low Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	3.851 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 12:53:04 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 (7/21/2020 12:53:04.332 PM)

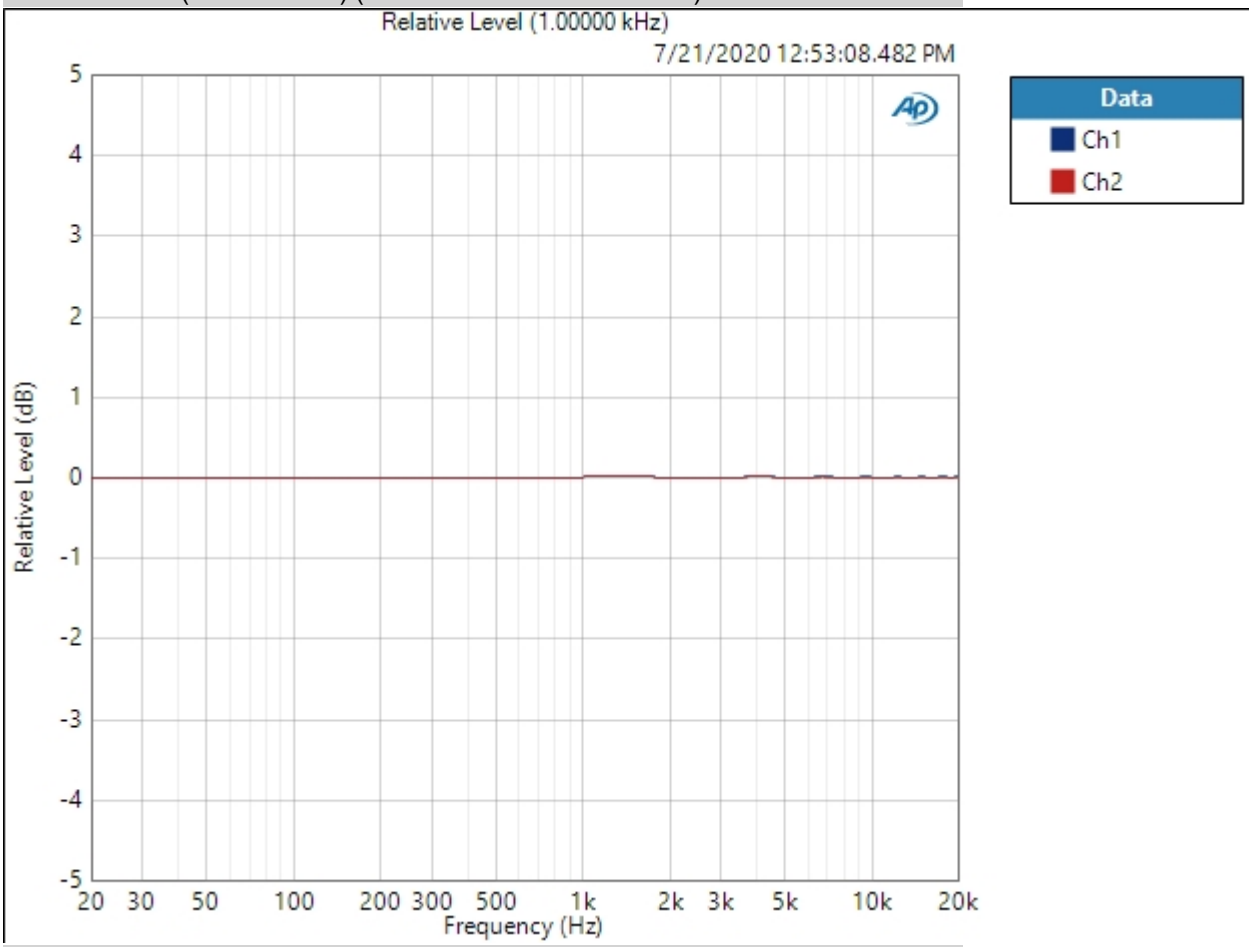


Result: PASSED

300 Ohm Low Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	3.851 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	7/21/2020 12:53:08 PM

Relative Level (1.00000 kHz) (7/21/2020 12:53:08.482 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) (7/21/2020 12:53:08.482 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:	3.851 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 12:53:10.582 PM)

Ch1 127.201 dB

Ch2 127.061 dB

300 Ohm Low Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	3.851 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 (7/21/2020 12:53:13.234 PM)

Ch1 0.000093 %

Ch2 0.000095 %

THD Ratio (7/21/2020 12:53:13.234 PM)

Ch1 0.000019 %

Ch2 0.000016 %

Noise Ratio (7/21/2020 12:53:13.234 PM)

Ch1 0.000091 %

Ch2 0.000092 %

Distortion Product Ratio (7/21/2020 12:53:13.234 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	-142.59	-141.60	-148.73	-147.06	-149.77	-150.92	-146.99	-150.60	-153.38
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-143.67	-150.55	-149.40	-149.44	-154.00	-148.31	-148.18	-150.24	-149.60

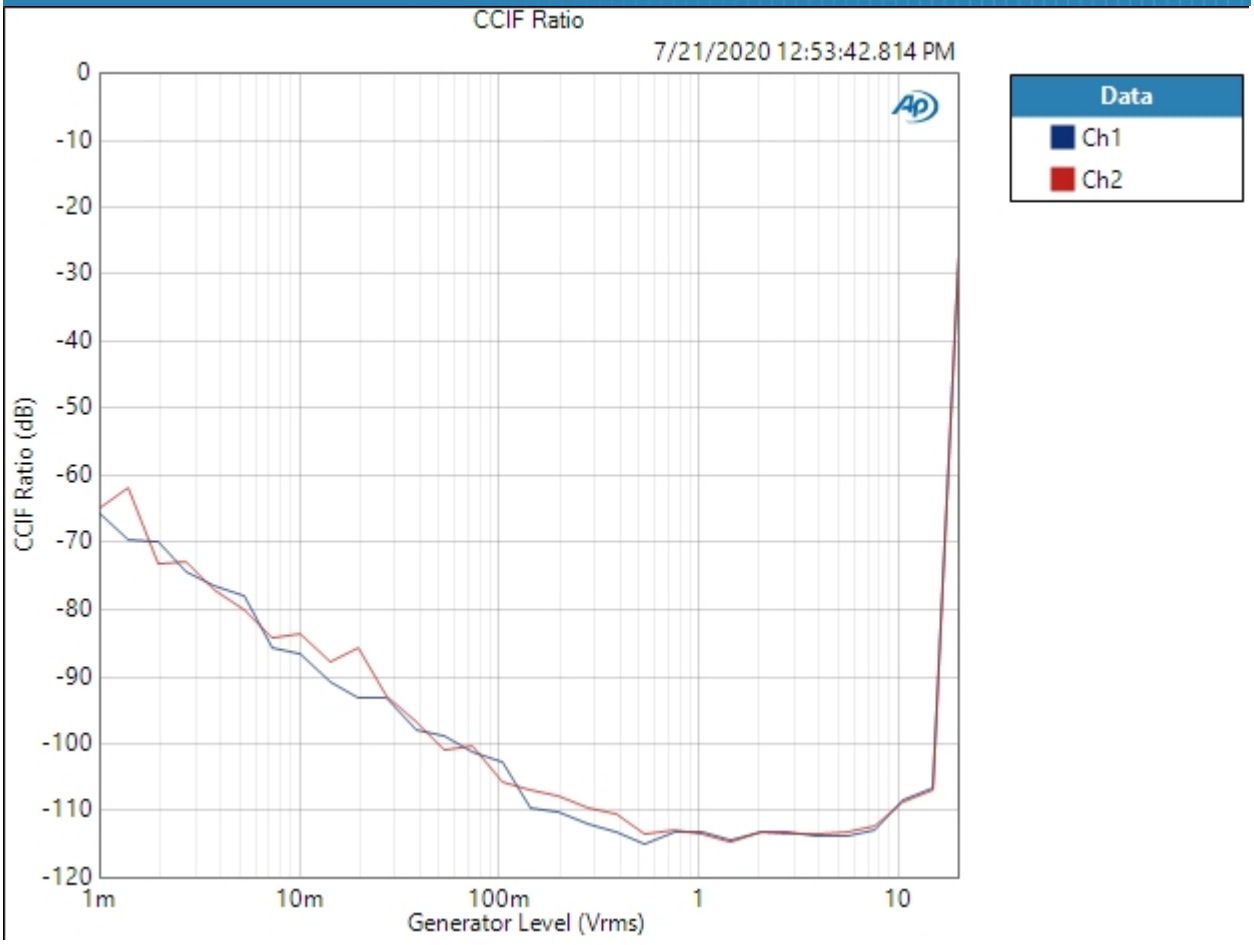
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

300 Ohm Low Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	20.00 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:	20.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	7/21/2020 12:53:42 PM

CCIF Ratio (7/21/2020 12:53:42.814 PM)

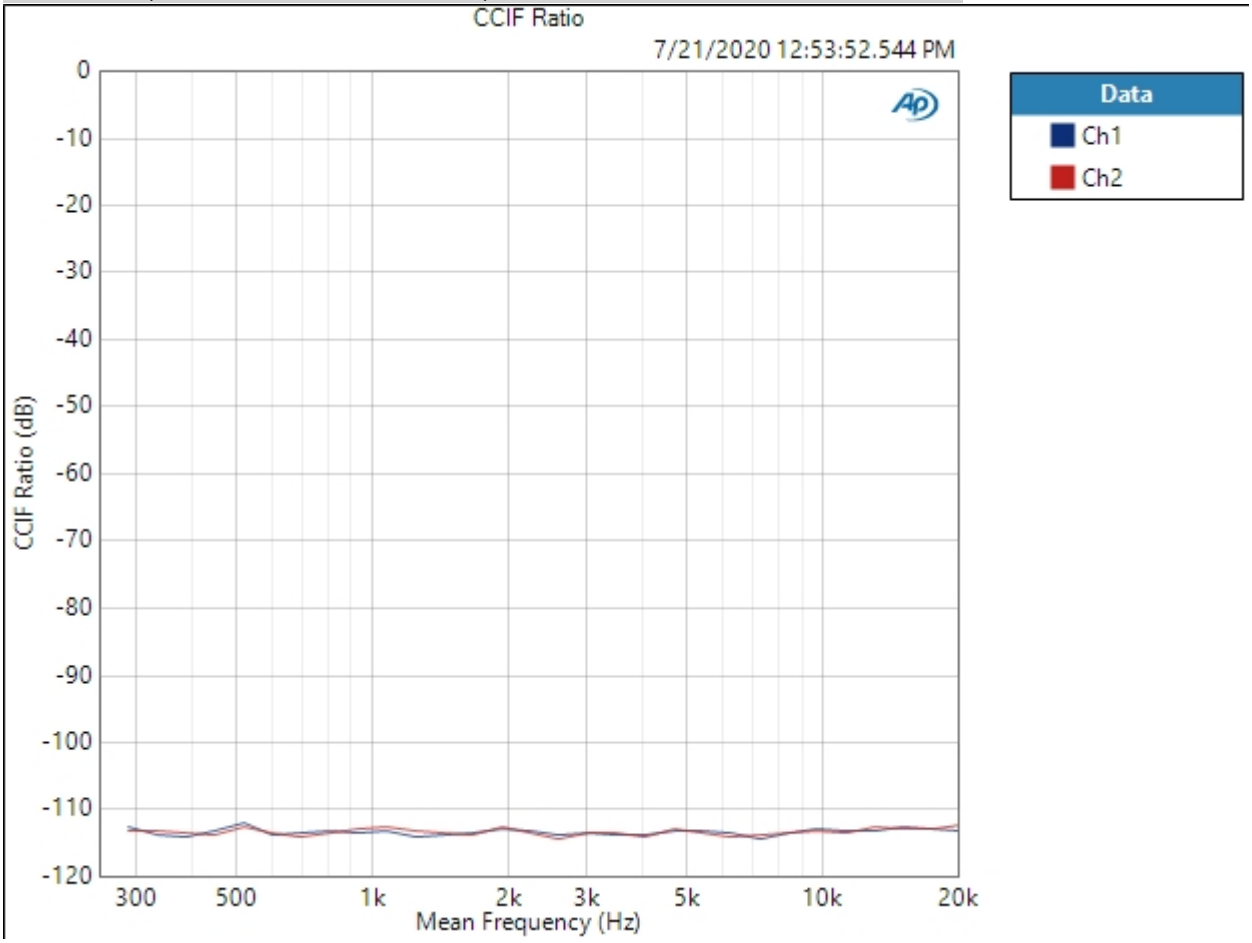


Result: PASSED

300 Ohm Low Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	3.851 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	7/21/2020 12:53:52 PM

CCIF Ratio (7/21/2020 12:53:52.544 PM)



Result: PASSED

300 Ohm Low Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	3.851 Vrms
Frequency:	10.0000 kHz

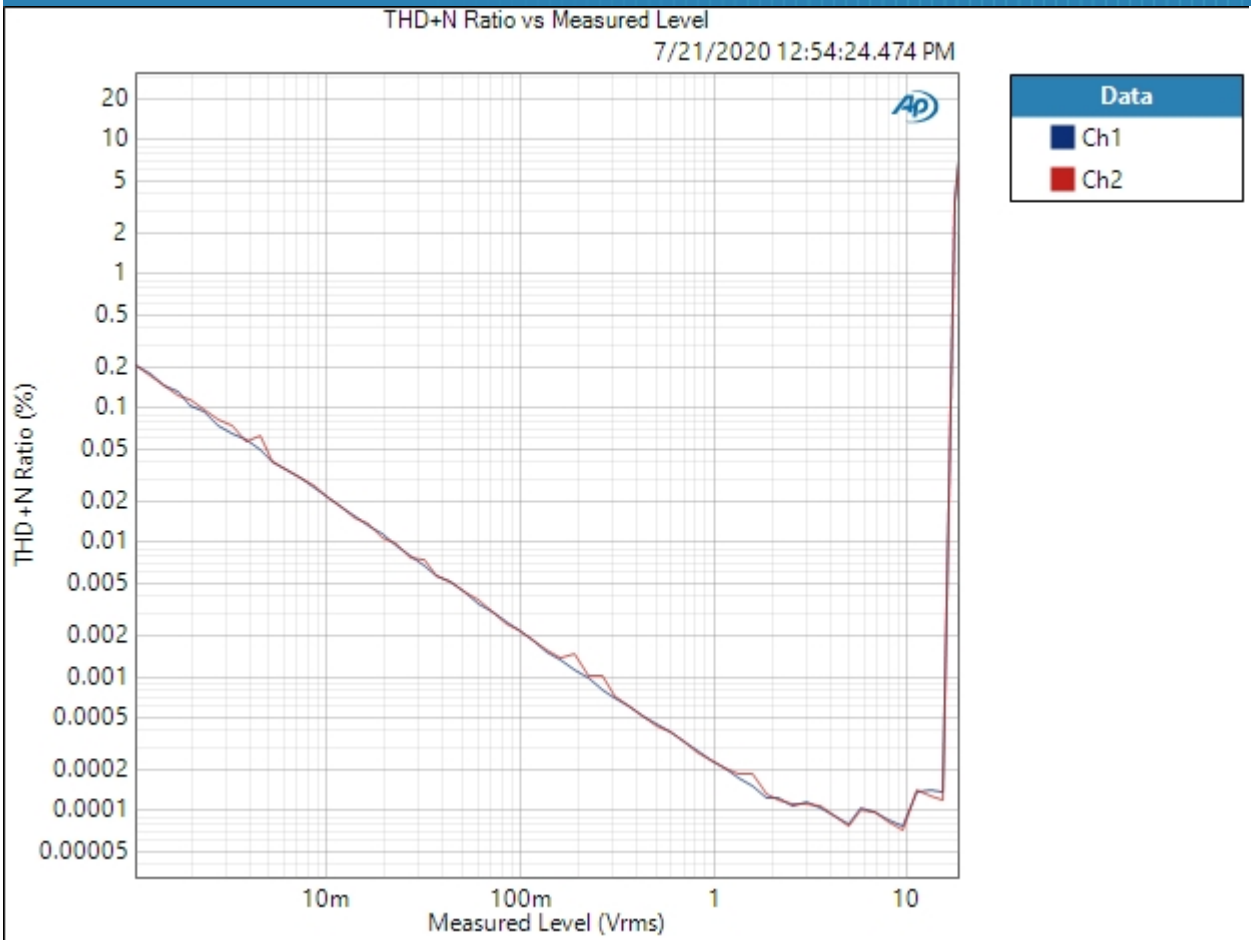
Crosstalk (7/21/2020 12:53:53.954 PM)

Ch1 90.288 dB
Ch2 90.252 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:	20.00 Vrms
Step Type:	Logarithmic
Number of Points:	62
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 12:54:24 PM

THD+N Ratio vs Measured Level (7/21/2020 12:54:24.474 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:	844.0 mVrms
Frequency:	1.00000 kHz

RMS Level (7/21/2020 12:54:46.969 PM)

Ch1 4.002 Vrms
Ch2 4.003 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

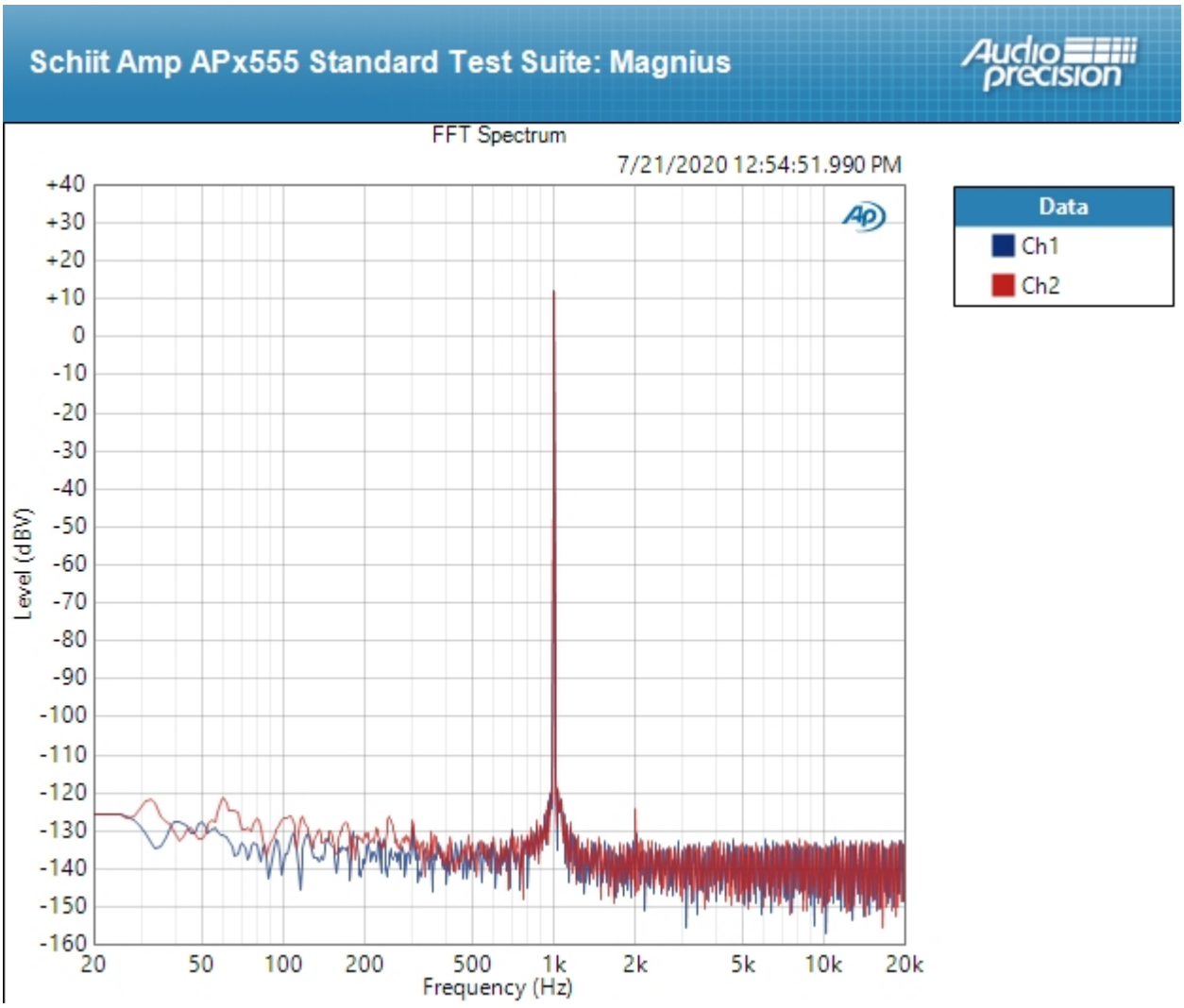
DC Level (7/21/2020 12:54:48.169 PM)

Ch1 -661.2 uV
Ch2 0.940 mV

300 Ohm High Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	844.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 12:54:51 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 (7/21/2020 12:54:51.990 PM)

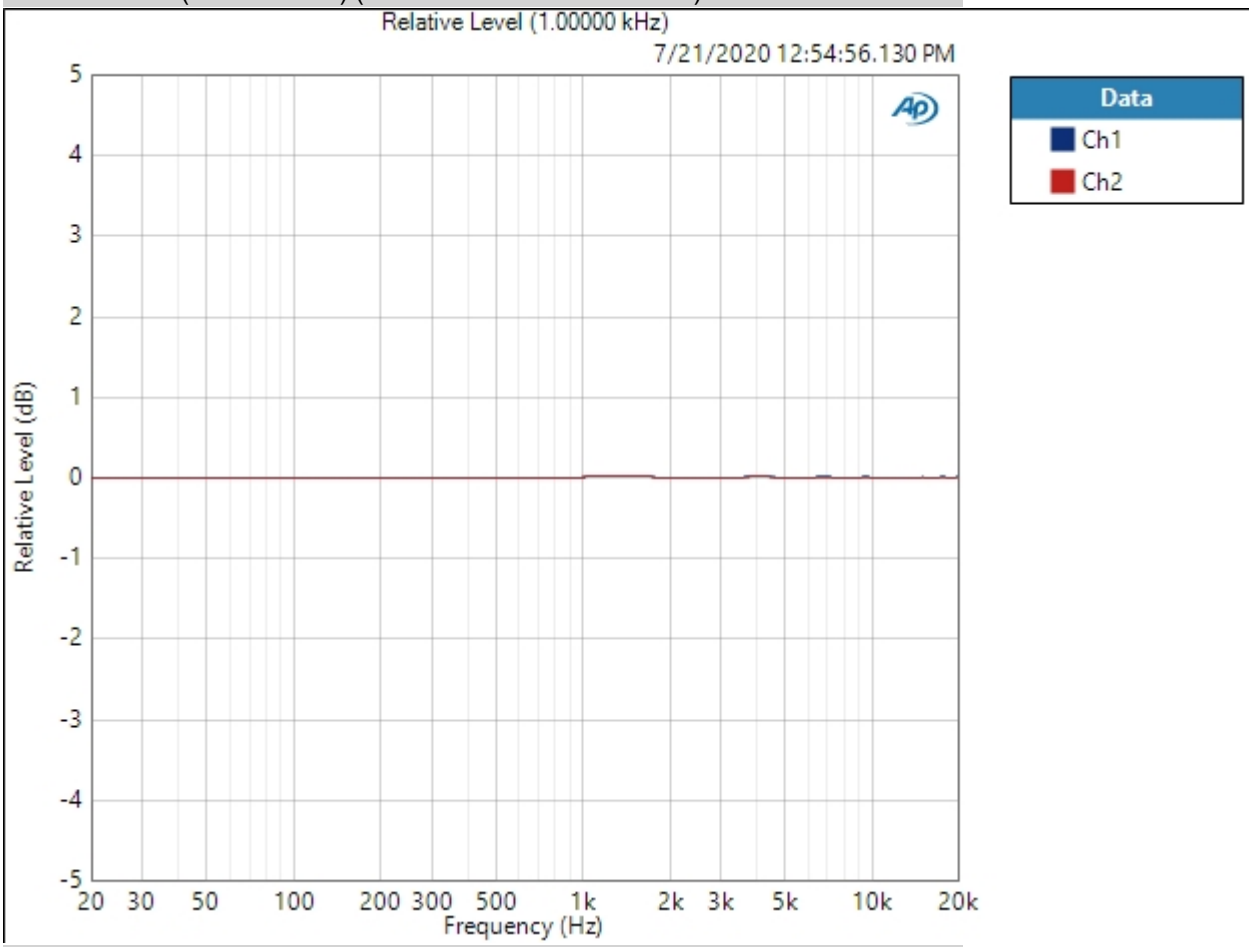


Result: PASSED

300 Ohm High Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	844.0 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	7/21/2020 12:54:56 PM

Relative Level (1.00000 kHz) (7/21/2020 12:54:56.130 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) (7/21/2020 12:54:56.130 PM)

Ch1 ±0.003 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:	844.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 12:54:58.210 PM)

Ch1 115.549 dB

Ch2 115.736 dB

300 Ohm High Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	844.0 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 (7/21/2020 12:55:00.835 PM)

Ch1 0.000214 %
Ch2 0.000242 %

THD Ratio (7/21/2020 12:55:00.835 PM)

Ch1 0.000039 %
Ch2 0.000043 %

Noise Ratio (7/21/2020 12:55:00.835 PM)

Ch1 0.000211 %
Ch2 0.000233 %

Distortion Product Ratio (7/21/2020 12:55:00.835 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	-138.98	-139.88	-140.19	-141.97	-139.83	-145.41	-144.49	-143.48	-145.74
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-132.14	-137.79	-138.36	-147.35	-145.03	-143.00	-144.64	-144.70	-143.66

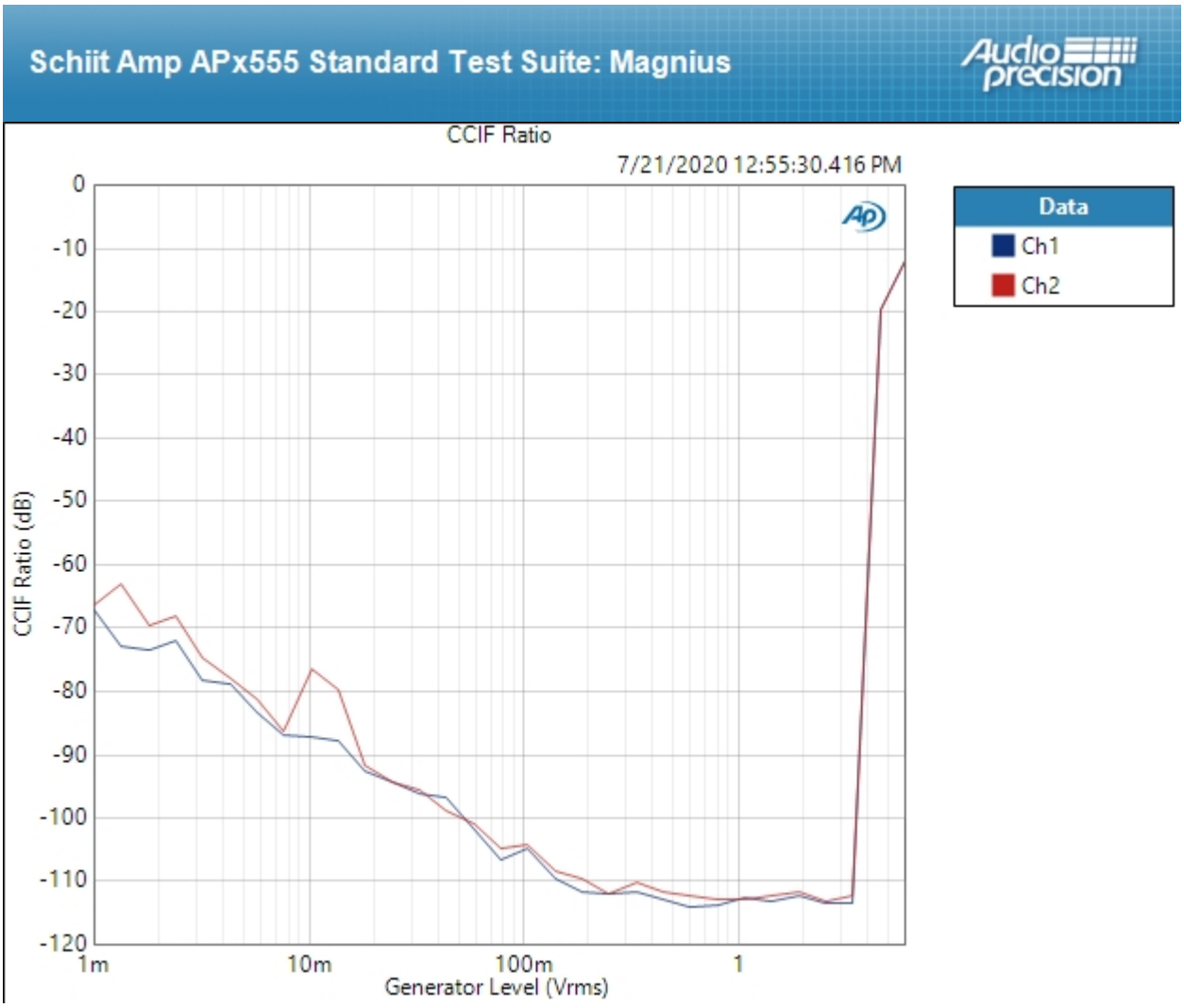
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

300 Ohm High Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	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	7/21/2020 12:55:30 PM

CCIF Ratio (7/21/2020 12:55:30.416 PM)

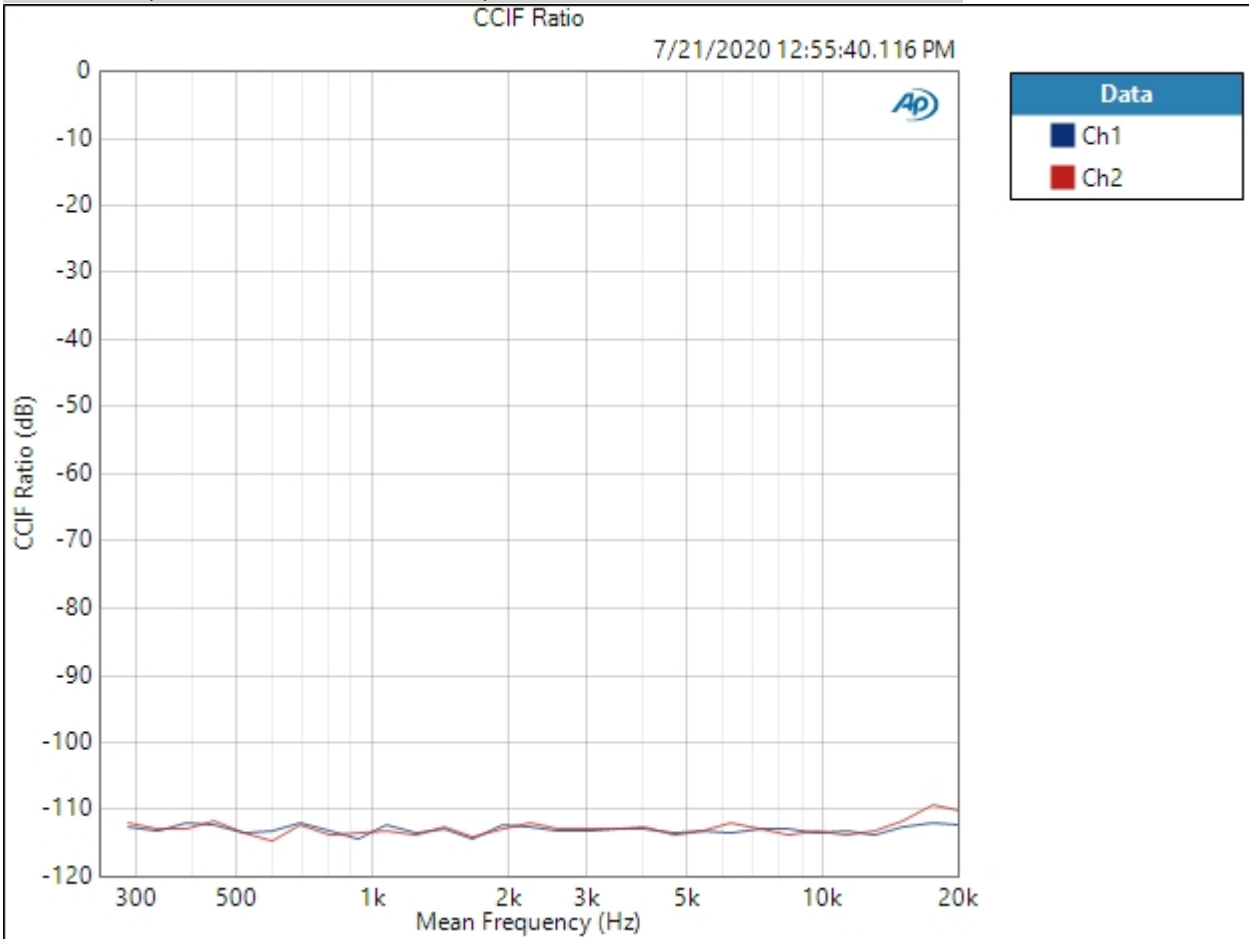


Result: PASSED

300 Ohm High Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	844.0 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	7/21/2020 12:55:40 PM

CCIF Ratio (7/21/2020 12:55:40.116 PM)



Result: PASSED

300 Ohm High Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	844.0 mVrms
Frequency:	10.0000 kHz

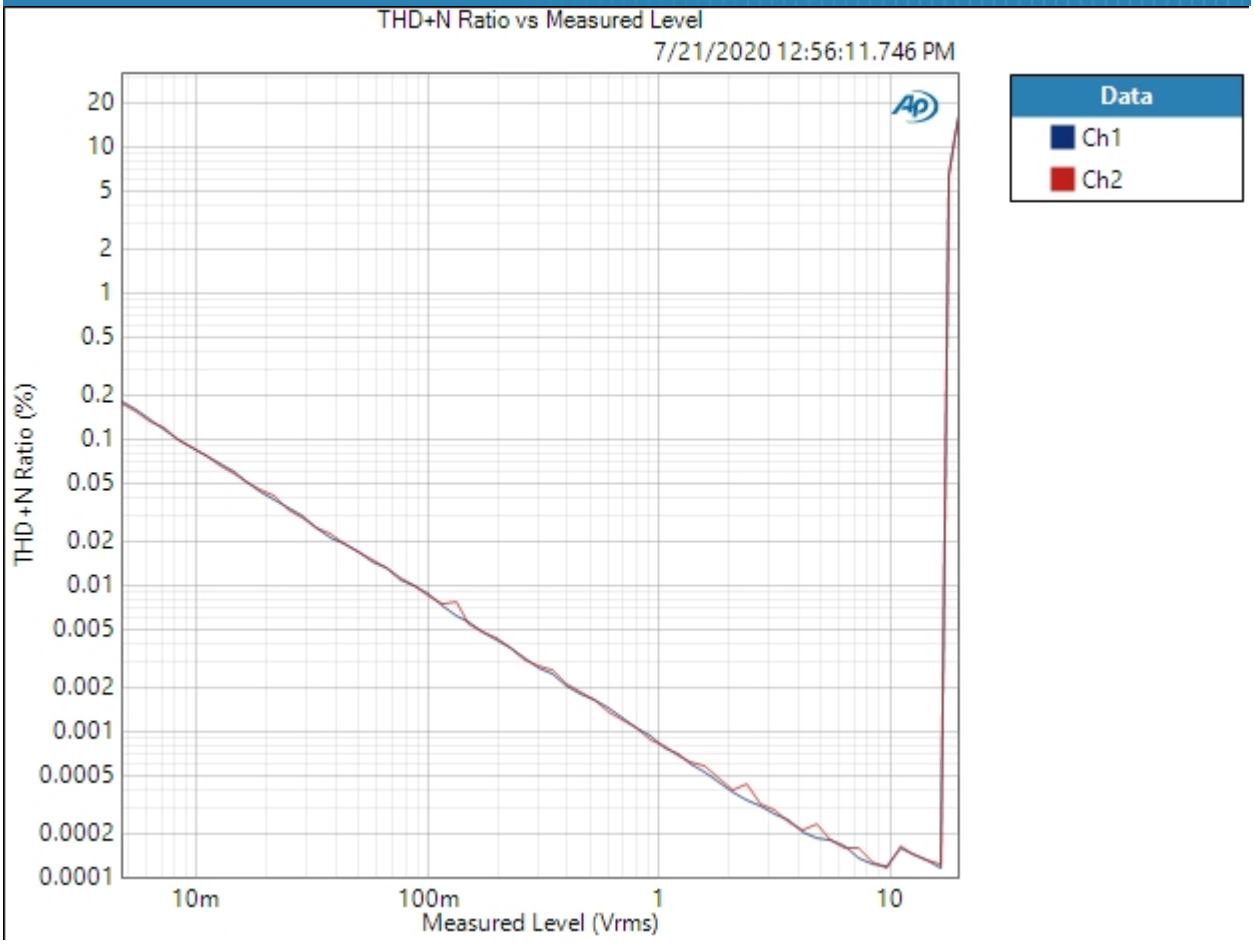
Crosstalk (7/21/2020 12:55:41.576 PM)

Ch1 92.091 dB
Ch2 91.889 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:	6.000 Vrms
Step Type:	Logarithmic
Number of Points:	64
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 12:56:11 PM

THD+N Ratio vs Measured Level (7/21/2020 12:56:11.746 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:	3.851 Vrms
Frequency:	1.00000 kHz

RMS Level (7/21/2020 12:57:10.771 PM)

Ch1 3.959 Vrms
Ch2 3.963 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

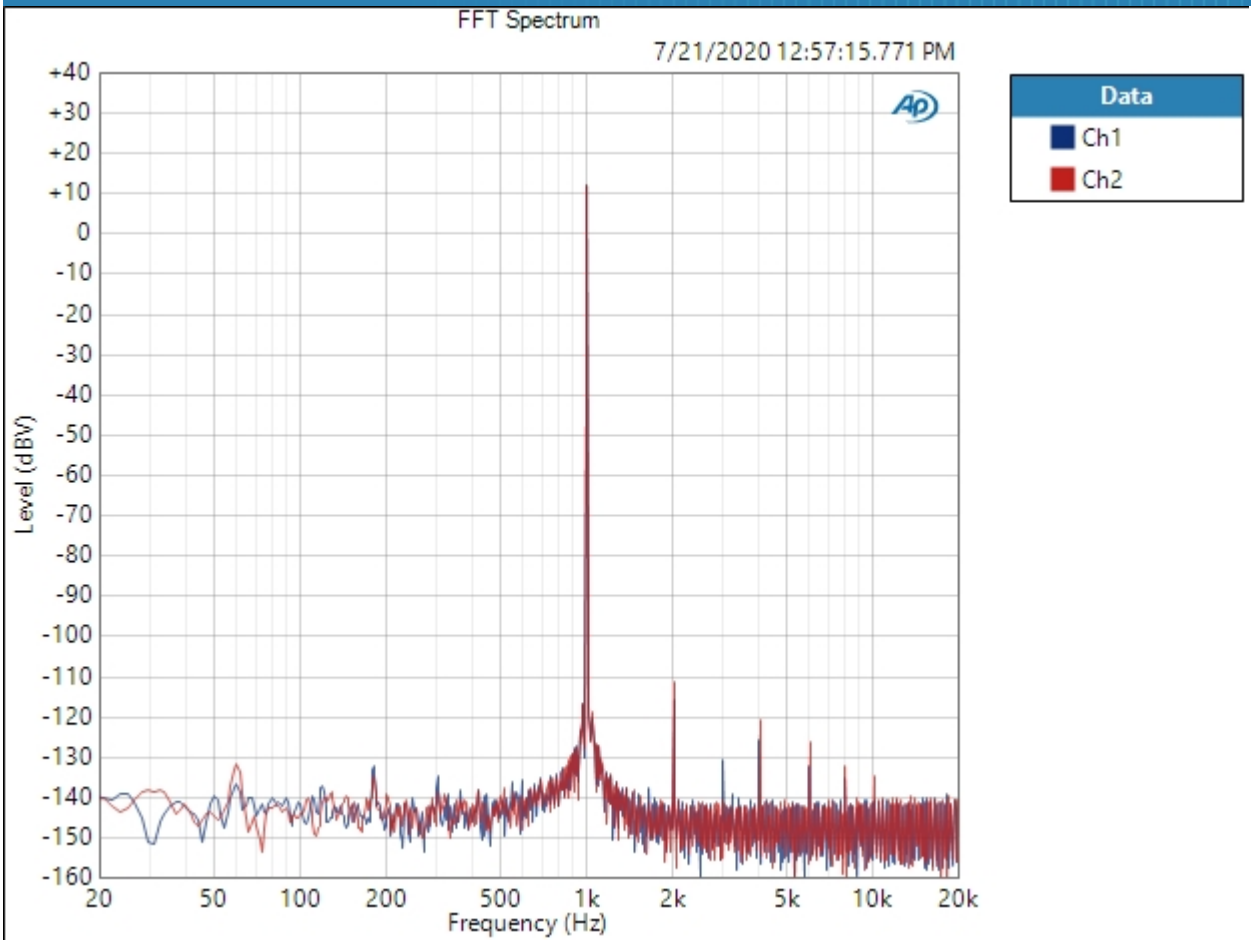
DC Level (7/21/2020 12:57:11.971 PM)

Ch1 -349.3 uV
Ch2 270.1 uV

32 Ohm Low Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	3.851 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 12:57:15 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 (7/21/2020 12:57:15.771 PM)

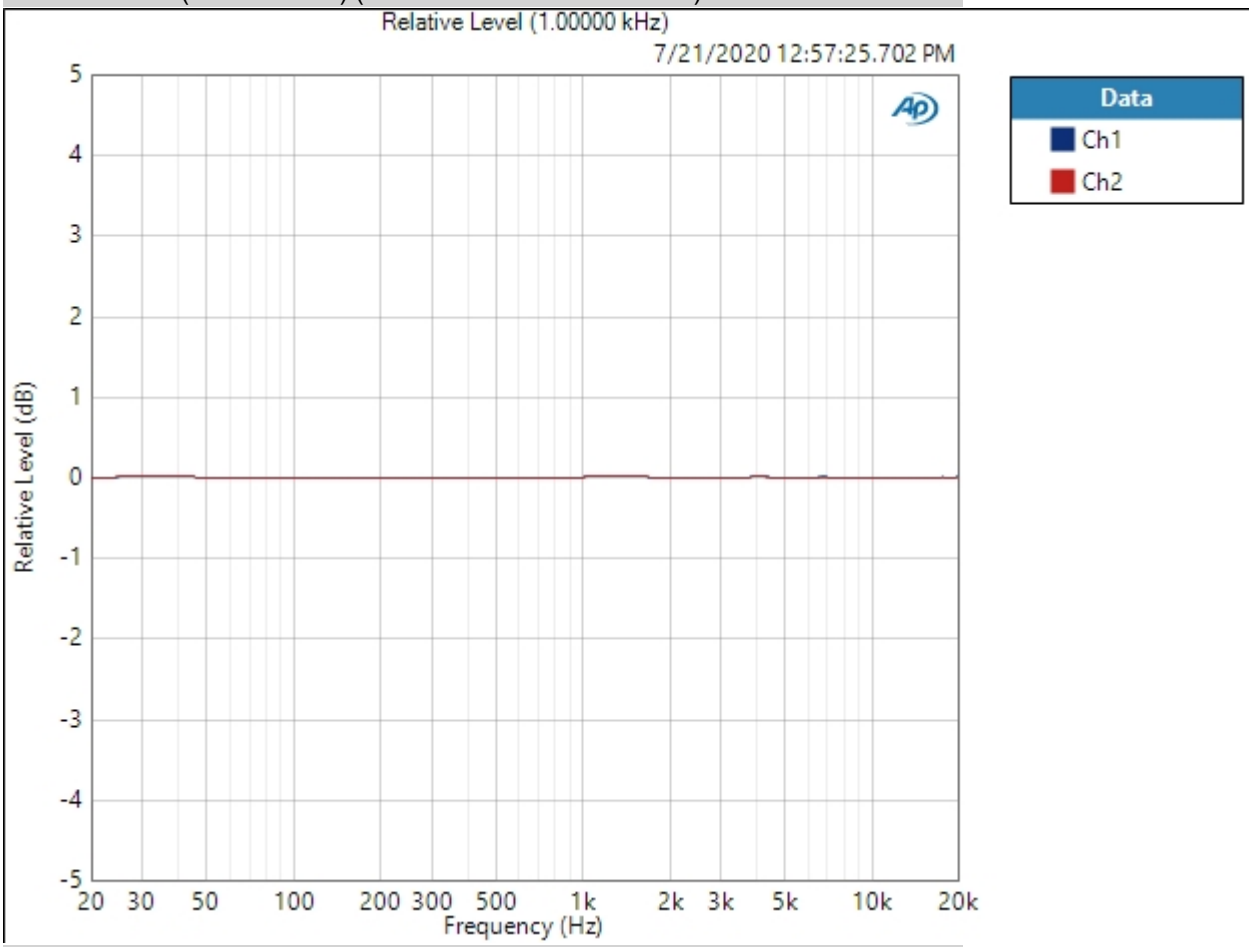


Result: PASSED

32 Ohm Low Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	3.851 Vrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	1.000 s
Sweep:	1.000 s
Extend Acquisition By:	2.000 s
Secondary Source:	None
Measured 1	7/21/2020 12:57:25 PM

Relative Level (1.00000 kHz) (7/21/2020 12:57:25.702 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) (7/21/2020 12:57:25.702 PM)

Ch1 ±0.001 dB

Ch2 ±0.002 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:	3.851 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 12:57:27.772 PM)

Ch1 127.245 dB

Ch2 127.243 dB

32 Ohm Low Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	3.851 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 (7/21/2020 12:57:30.413 PM)

Ch1 0.000102 %
Ch2 0.000121 %

THD Ratio (7/21/2020 12:57:30.413 PM)

Ch1 0.000047 %
Ch2 0.000077 %

Noise Ratio (7/21/2020 12:57:30.413 PM)

Ch1 0.000090 %
Ch2 0.000092 %

Distortion Product Ratio (7/21/2020 12:57:30.413 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	-127.60	-140.22	-138.47	-151.56	-142.17	-152.17	-145.62	-147.95	-148.85
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-123.05	-147.91	-132.50	-148.21	-137.81	-152.05	-143.54	-154.67	-146.06

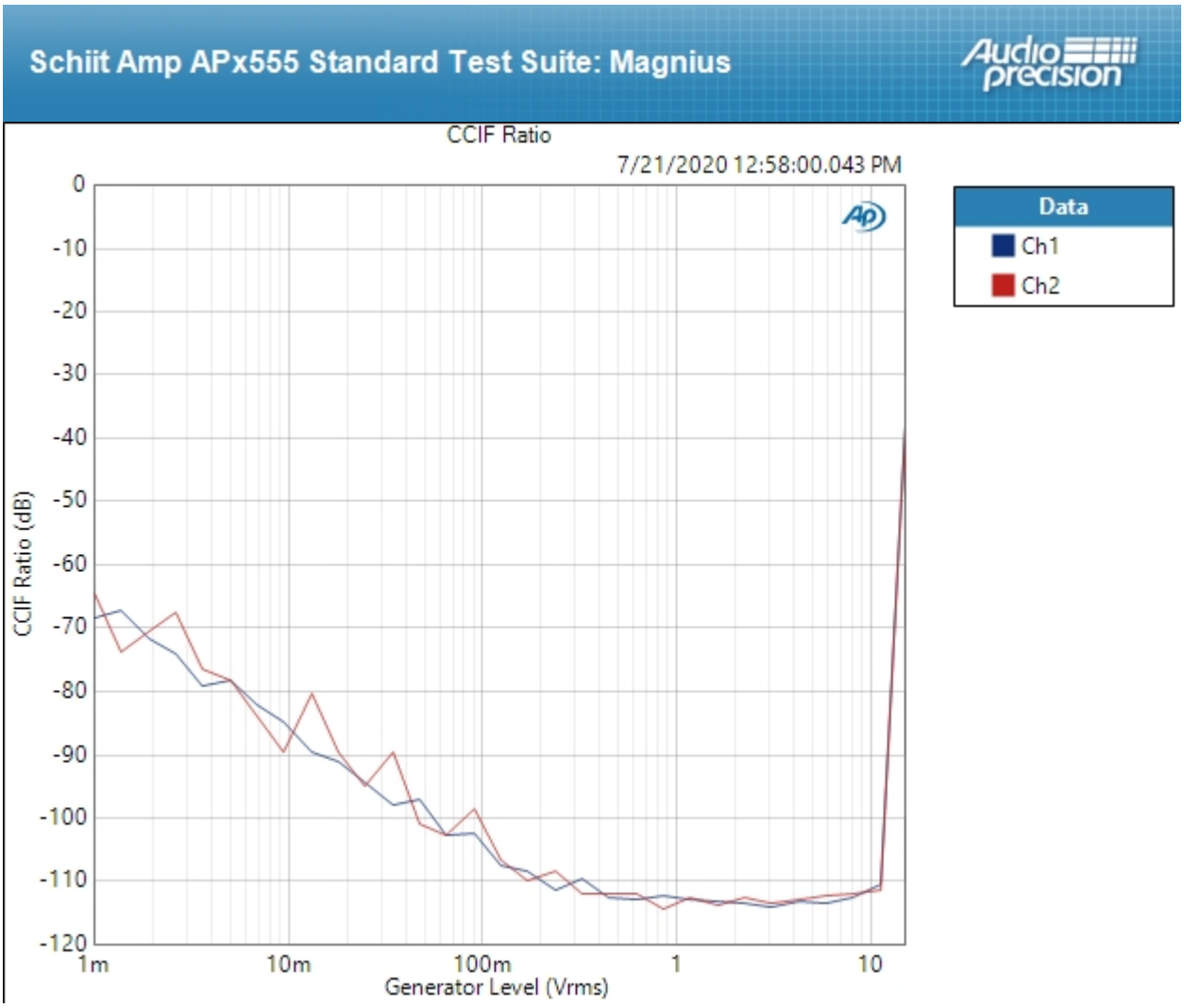
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

32 Ohm Low Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	15.00 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:	15.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	7/21/2020 12:58:00 PM

CCIF Ratio (7/21/2020 12:58:00.043 PM)

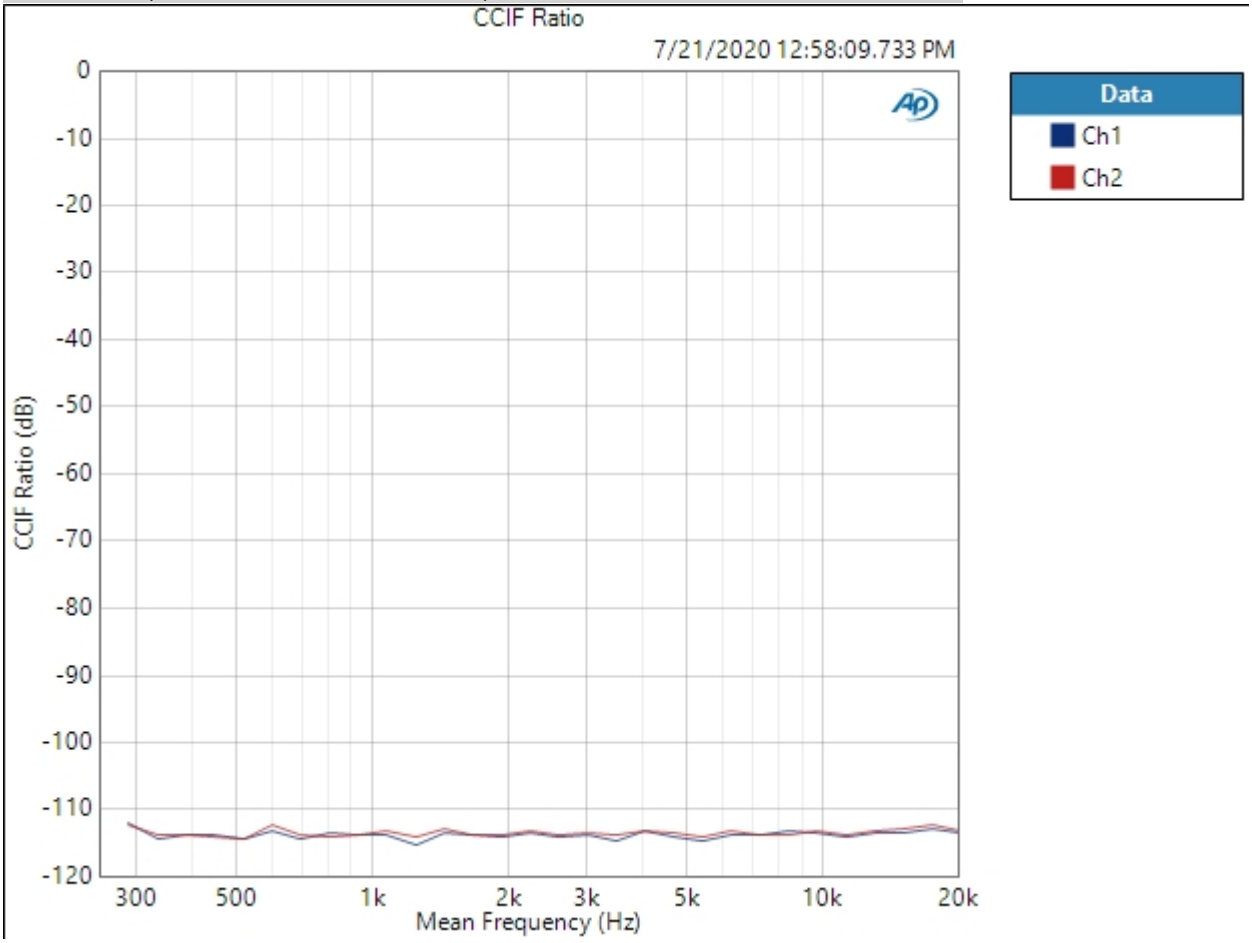


Result: PASSED

32 Ohm Low Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	3.851 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	7/21/2020 12:58:09 PM

CCIF Ratio (7/21/2020 12:58:09.733 PM)



Result: PASSED

32 Ohm Low Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	3.851 Vrms
Frequency:	10.0000 kHz

Crosstalk (7/21/2020 12:58:11.143 PM)

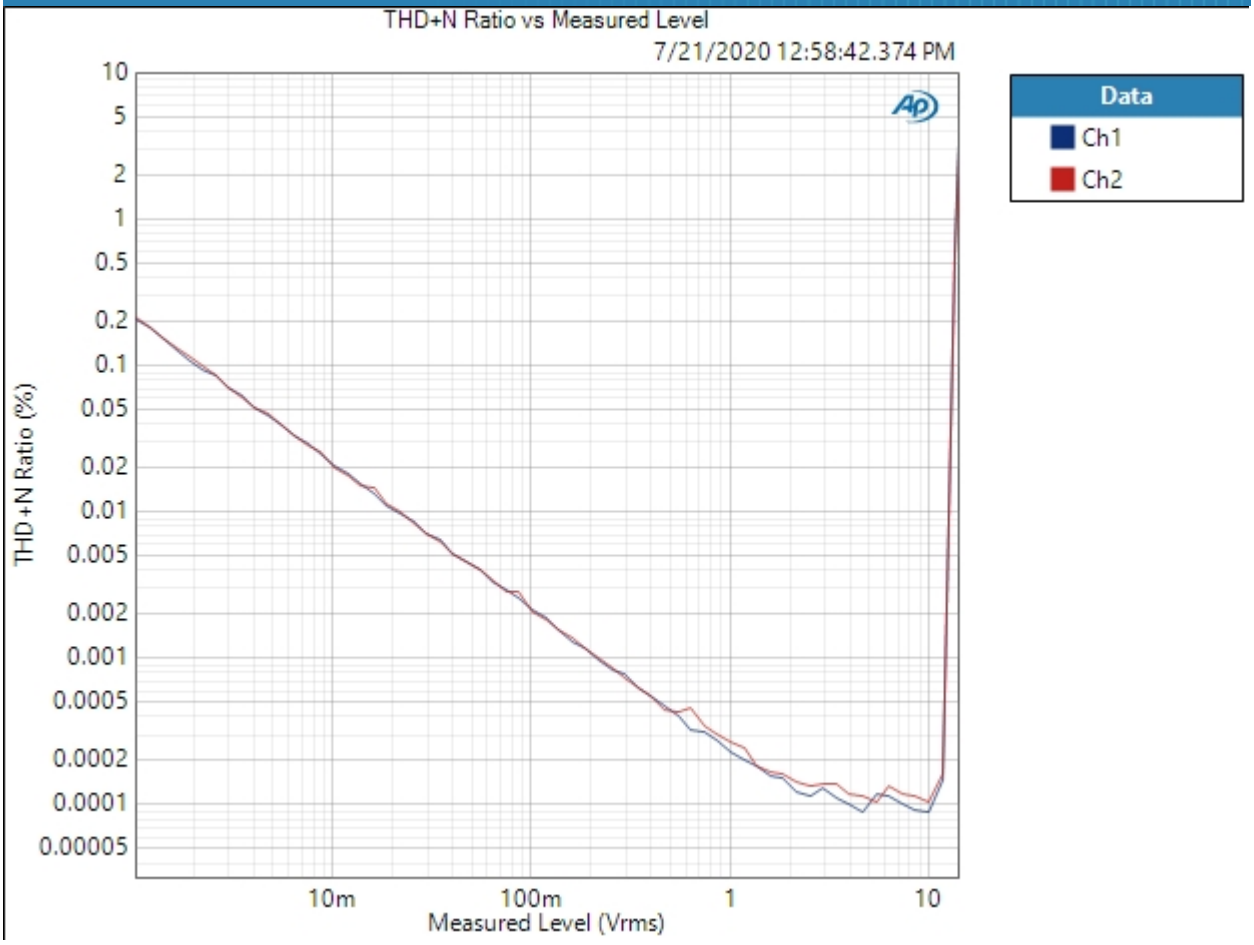
Ch1 71.035 dB

Ch2 71.106 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:	15.00 Vrms
Step Type:	Logarithmic
Number of Points:	64
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 12:58:42 PM

THD+N Ratio vs Measured Level (7/21/2020 12:58:42.374 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:	844.0 mVrms
Frequency:	1.00000 kHz

RMS Level (7/21/2020 12:58:59.358 PM)

Ch1 3.968 Vrms
Ch2 3.971 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

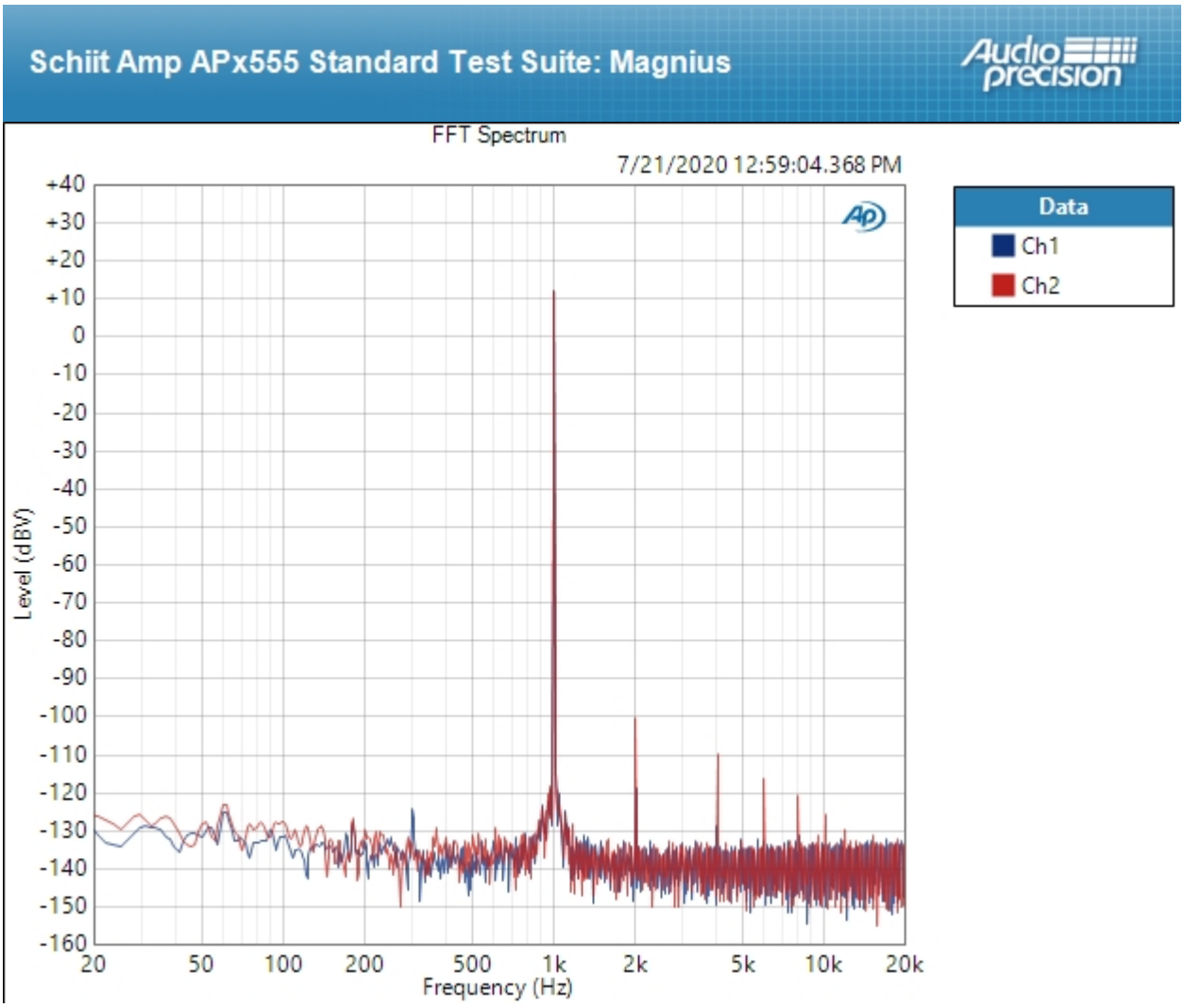
DC Level (7/21/2020 12:59:00.578 PM)

Ch1 -640.6 uV
Ch2 0.936 mV

32 Ohm High Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	844.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 12:59:04 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 (7/21/2020 12:59:04.368 PM)

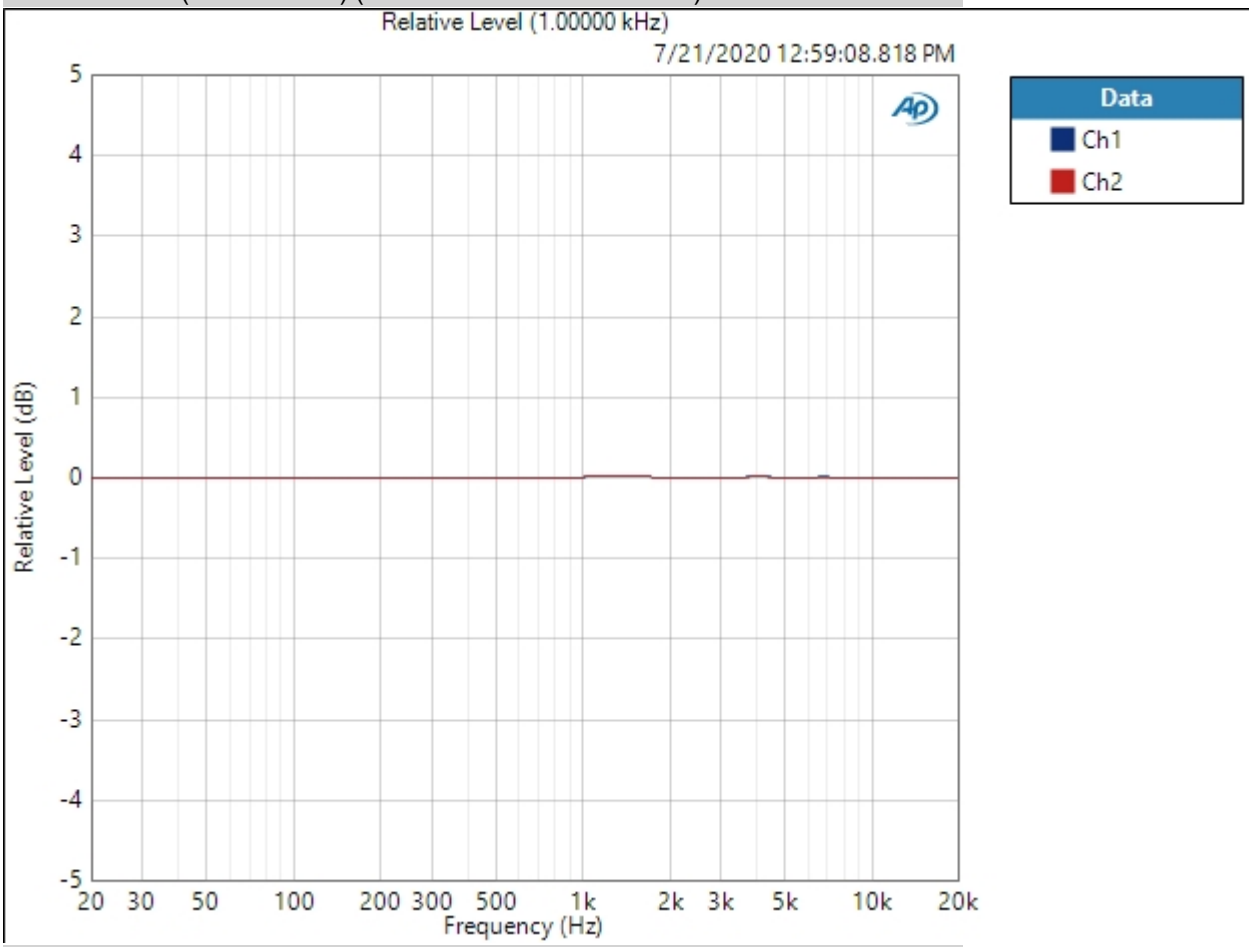


Result: PASSED

32 Ohm High Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	844.0 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	7/21/2020 12:59:08 PM

Relative Level (1.00000 kHz) (7/21/2020 12:59:08.818 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) (7/21/2020 12:59:08.818 PM)

Ch1 ±0.003 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:	844.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 12:59:10.888 PM)

Ch1 115.702 dB

Ch2 114.951 dB

32 Ohm High Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	844.0 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 (7/21/2020 12:59:13.509 PM)

Ch1 0.000218 %

Ch2 0.000352 %

THD Ratio (7/21/2020 12:59:13.509 PM)

Ch1 0.000051 %

Ch2 0.000267 %

Noise Ratio (7/21/2020 12:59:13.509 PM)

Ch1 0.000213 %

Ch2 0.000215 %

Distortion Product Ratio (7/21/2020 12:59:13.509 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	-131.16	-139.72	-134.77	-139.32	-140.14	-141.80	-141.49	-142.38	-137.58
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-112.10	-141.86	-121.94	-142.16	-128.73	-143.28	-131.66	-140.31	-137.38

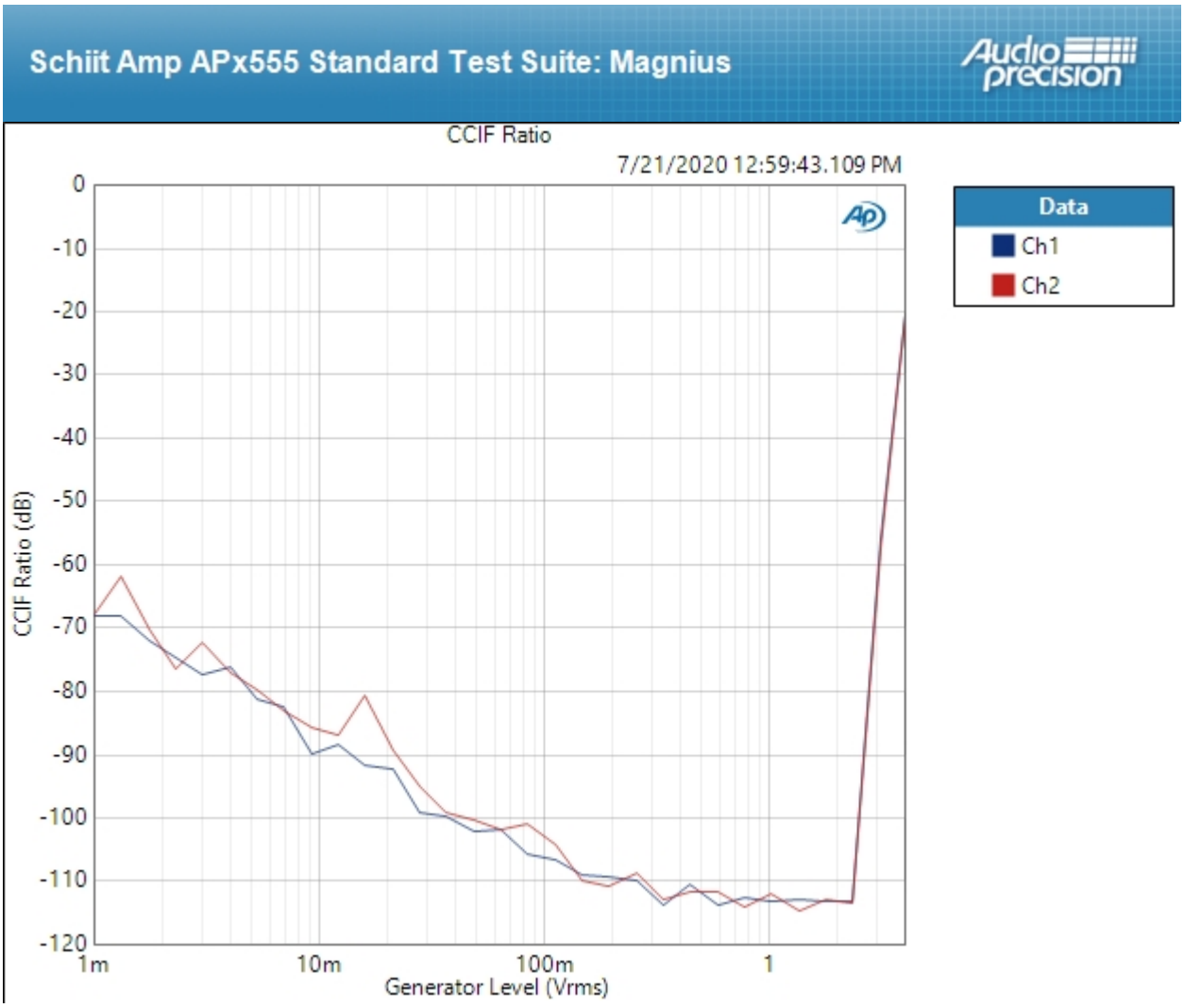
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

32 Ohm High Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	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	7/21/2020 12:59:43 PM

CCIF Ratio (7/21/2020 12:59:43.109 PM)

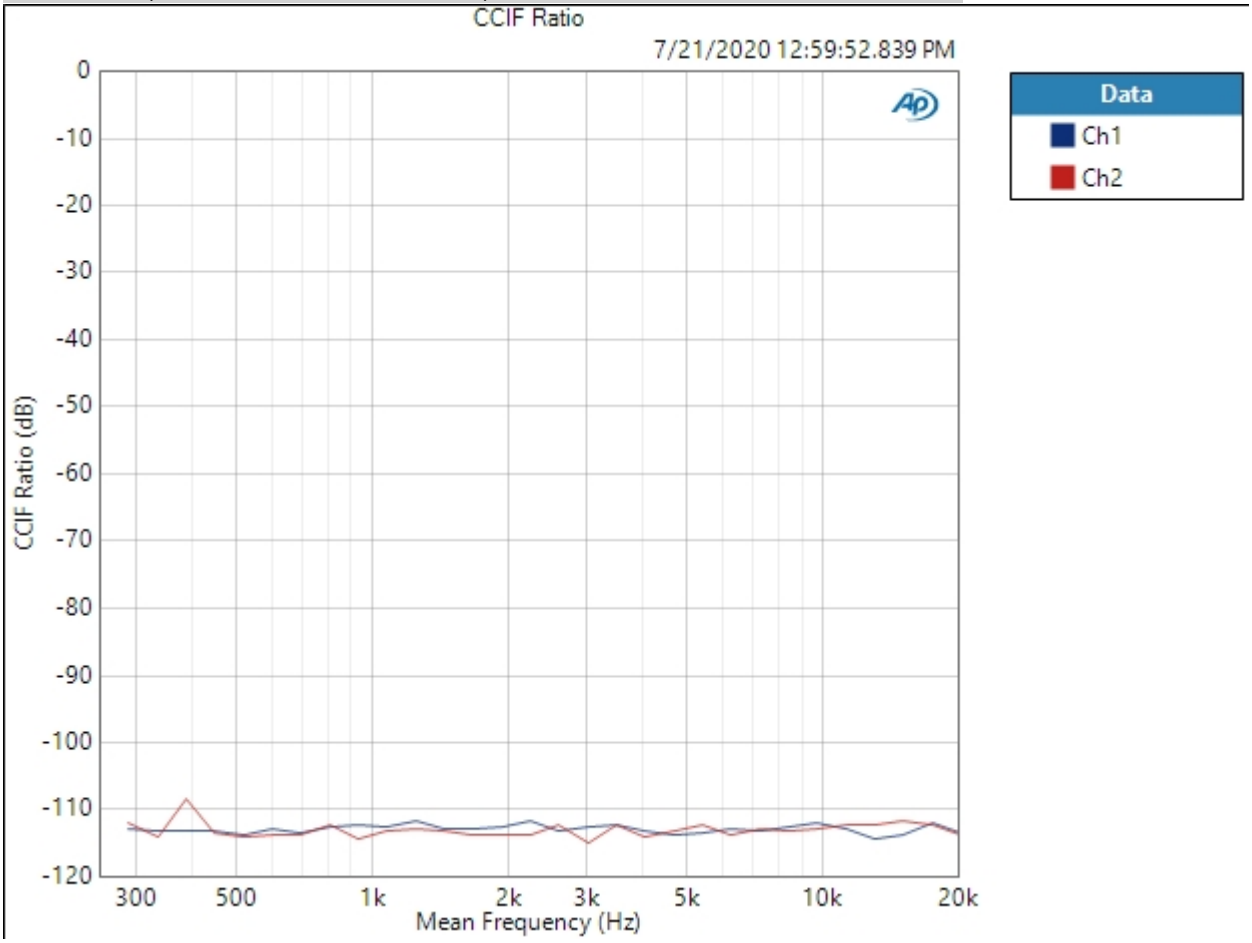


Result: PASSED

32 Ohm High Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	844.0 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	7/21/2020 12:59:52 PM

CCIF Ratio (7/21/2020 12:59:52.839 PM)



Result: PASSED

32 Ohm High Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	844.0 mVrms
Frequency:	10.0000 kHz

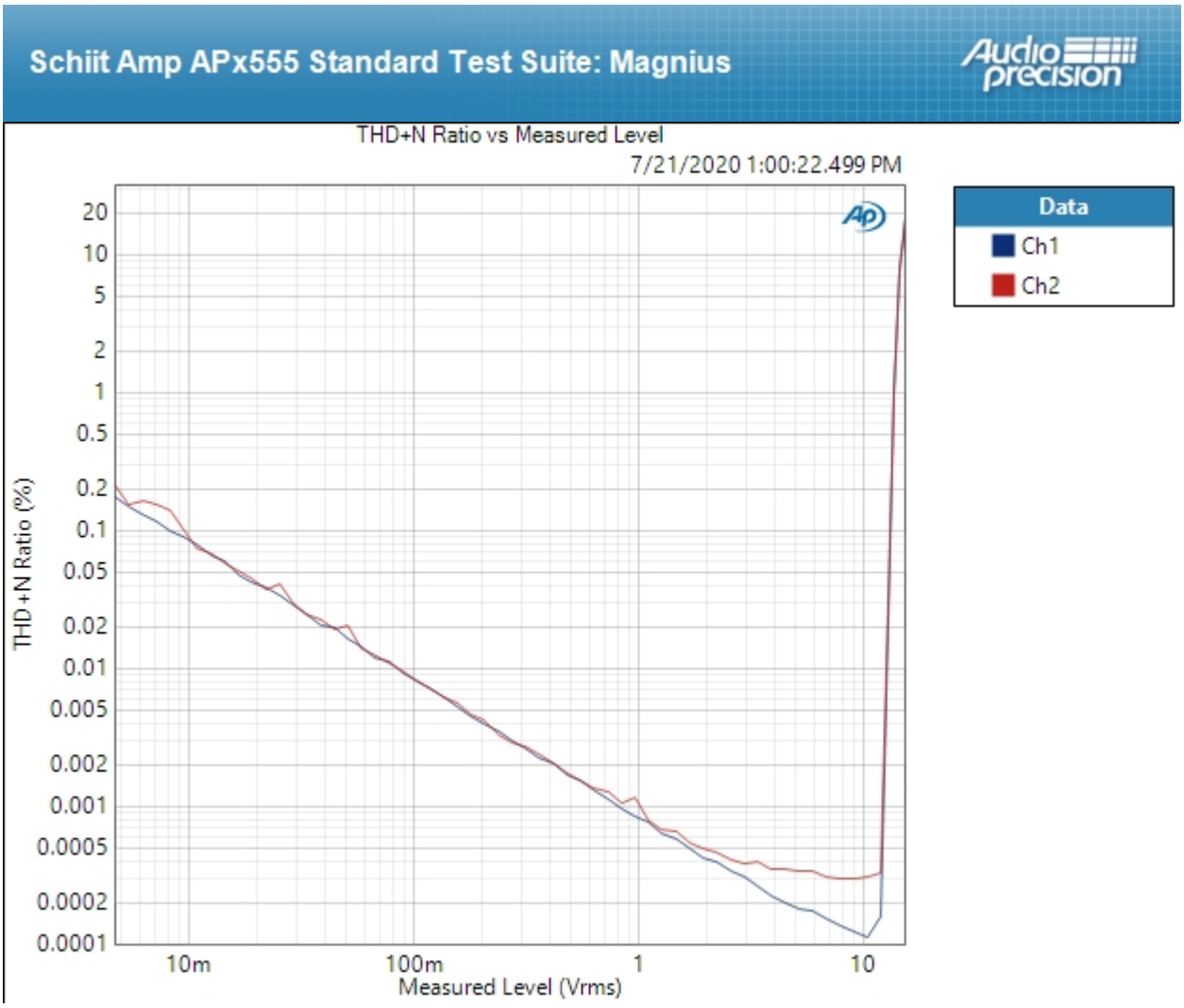
Crosstalk (7/21/2020 12:59:54.249 PM)

Ch1 71.217 dB
Ch2 71.268 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:	5.000 Vrms
Step Type:	Logarithmic
Number of Points:	62
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 1:00:22 PM

THD+N Ratio vs Measured Level (7/21/2020 1:00:22.499 PM)



Result: PASSED

300 Ohm Low SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Source Impedance:	20 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:	1.927 Vrms
Frequency:	1.00000 kHz

RMS Level (7/21/2020 1:05:04.458 PM)

Ch1 1.000 Vrms
Ch2 1.000 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

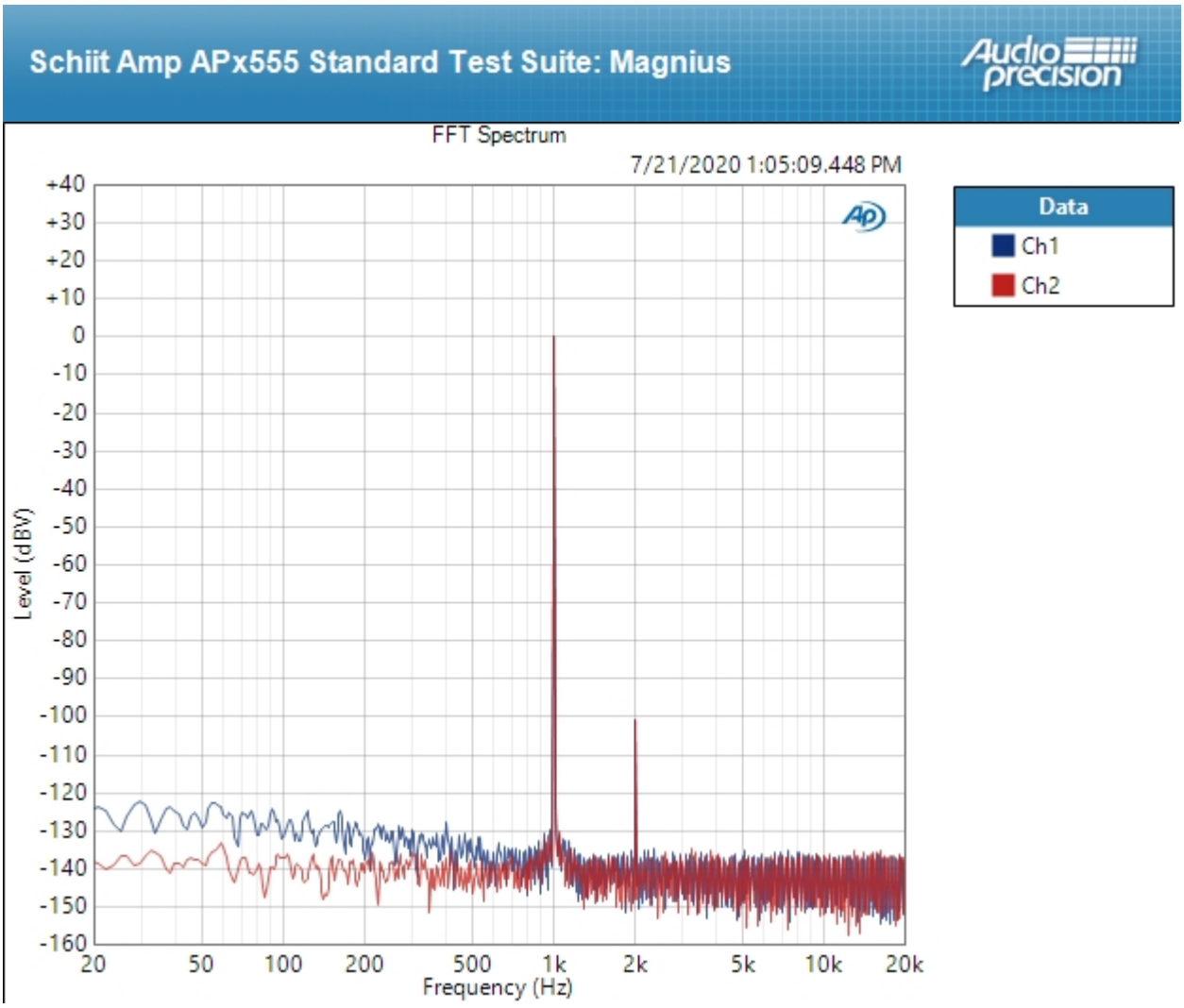
DC Level (7/21/2020 1:05:05.658 PM)

Ch1 -1.859 mV
Ch2 -800.6 uV

300 Ohm Low SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.927 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 1:05:09 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 (7/21/2020 1:05:09.448 PM)

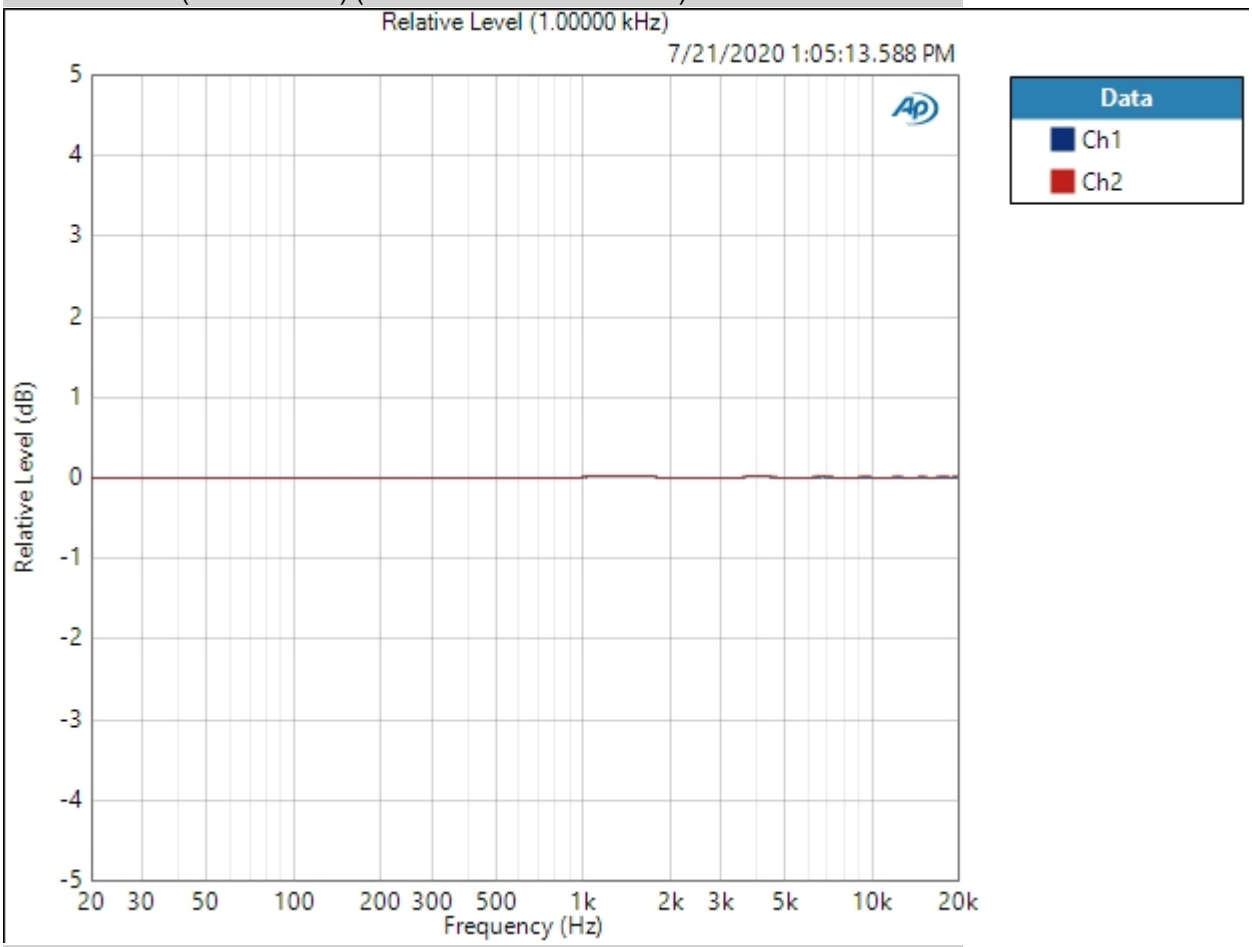


Result: PASSED

300 Ohm Low SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	1.927 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	7/21/2020 1:05:13 PM

Relative Level (1.00000 kHz) (7/21/2020 1:05:13.588 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) (7/21/2020 1:05:13.588 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

300 Ohm Low SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.927 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 1:05:15.668 PM)

Ch1 105.589 dB

Ch2 106.380 dB

300 Ohm Low SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.927 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 (7/21/2020 1:05:17.798 PM)

Ch1 0.001163 %

Ch2 0.001135 %

THD Ratio (7/21/2020 1:05:17.798 PM)

Ch1 0.000938 %

Ch2 0.000973 %

Noise Ratio (7/21/2020 1:05:17.798 PM)

Ch1 0.000687 %

Ch2 0.000579 %

Distortion Product Ratio (7/21/2020 1:05:17.798 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	8.001k	9.001k	10.00k
Ch1	-0.00	-100.60	-132.83	-136.60	-131.43	-133.78	-132.27	-134.68	-134.86	-132.40
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch2	-0.00	-100.29	-131.21	-127.24	-130.67	-131.93	-135.19	-133.61	-132.31	-132.84

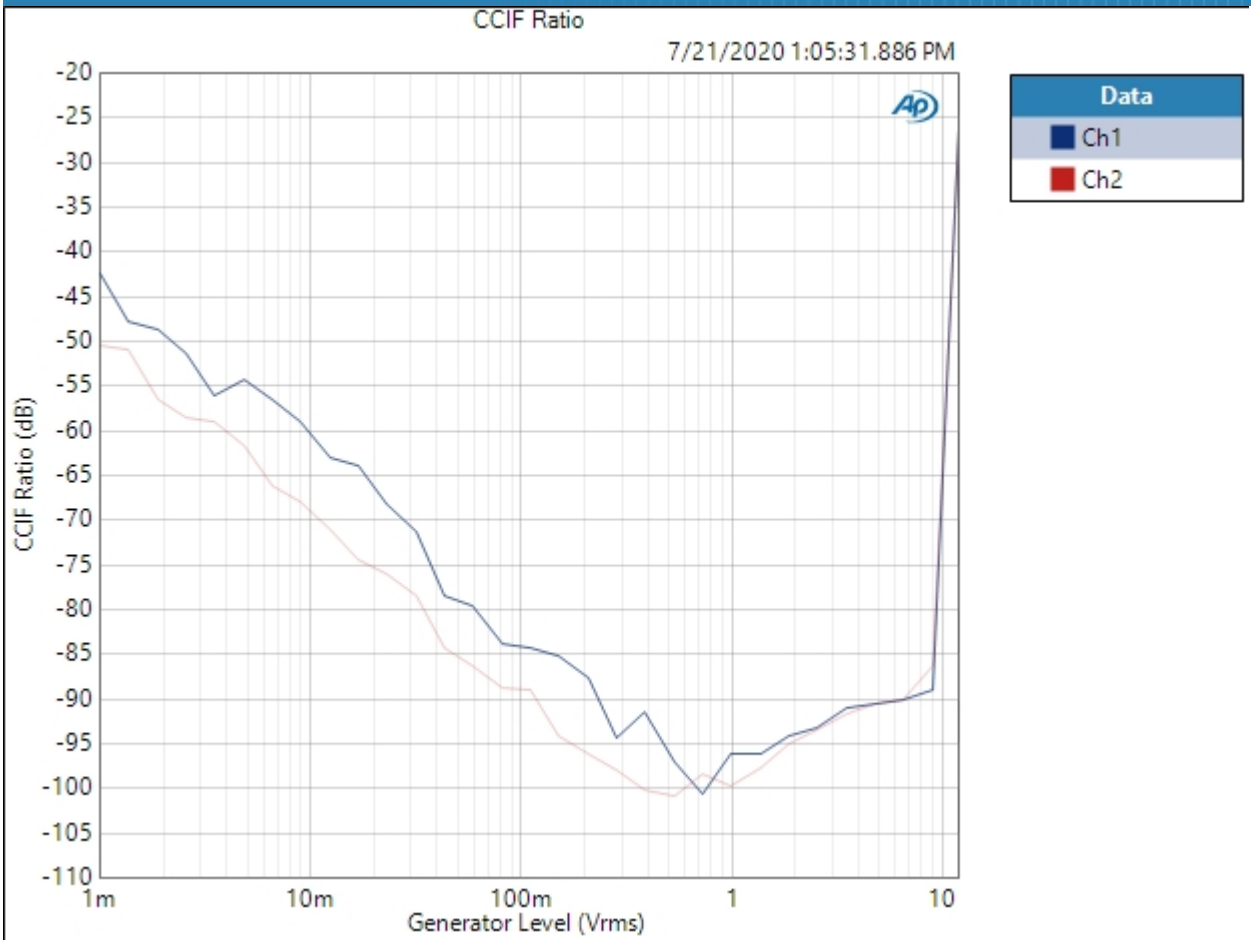
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

300 Ohm Low SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	12.00 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	7/21/2020 1:05:31 PM

CCIF Ratio (7/21/2020 1:05:31.886 PM)

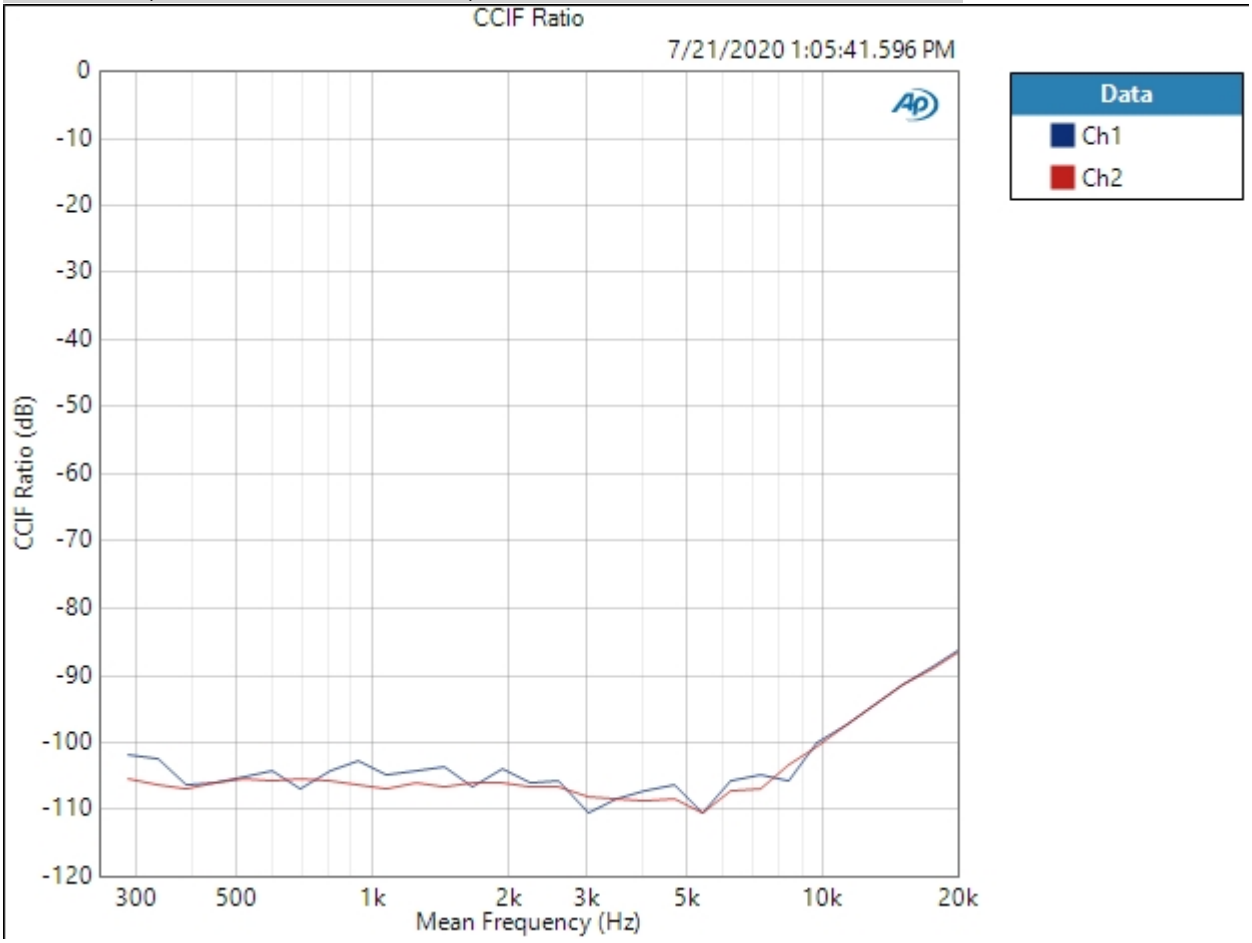


Result: PASSED

300 Ohm Low SE : IMD Frequency Sweep (CCIF)

Generator Level:	1.927 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	7/21/2020 1:05:41 PM

CCIF Ratio (7/21/2020 1:05:41.596 PM)



Result: PASSED

300 Ohm Low SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.927 Vrms
Frequency:	10.0000 kHz

Crosstalk (7/21/2020 1:05:43.006 PM)

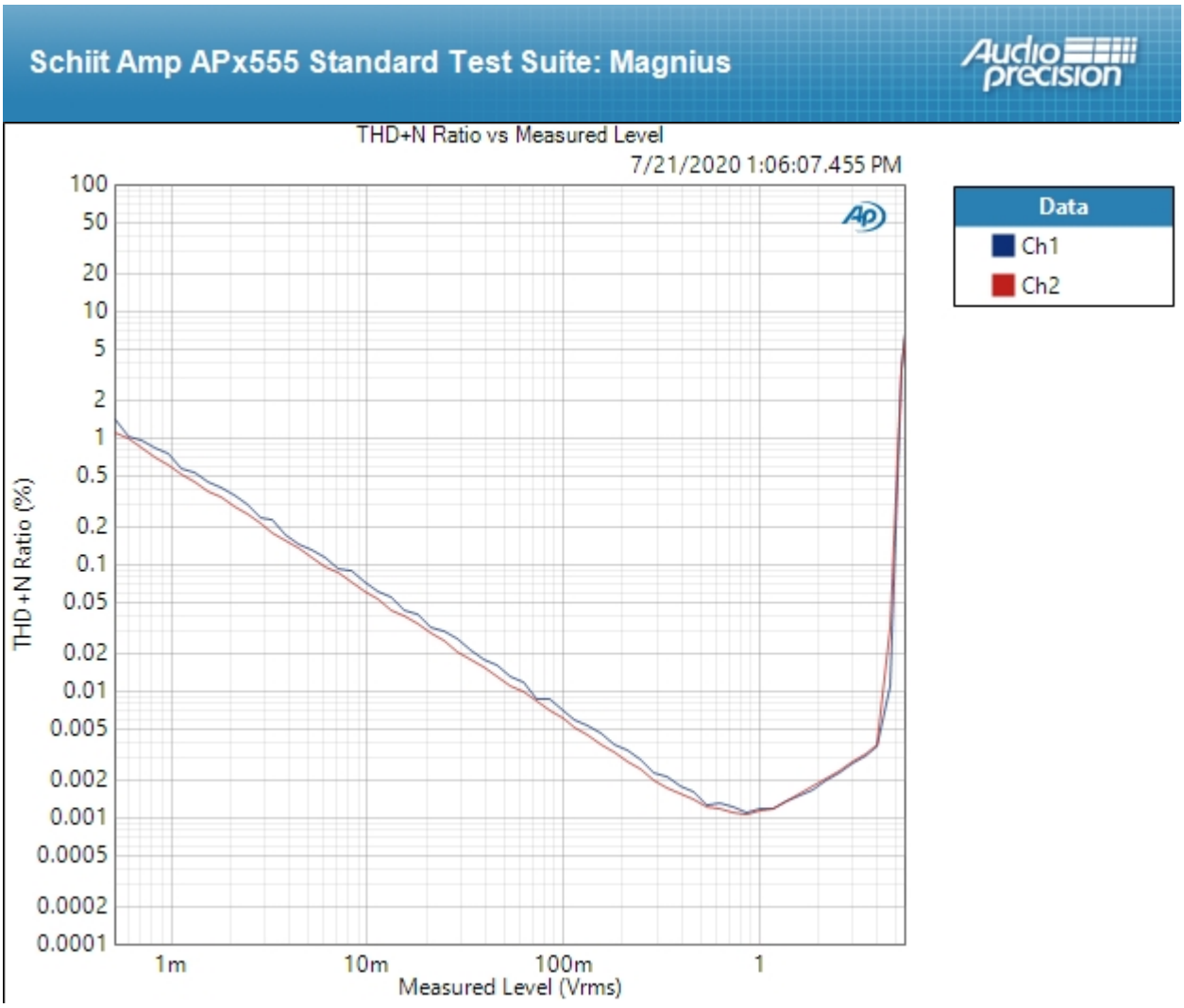
Ch1 -91.718 dB

Ch2 -91.153 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	62
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 1:06:07 PM

THD+N Ratio vs Measured Level (7/21/2020 1:06:07.455 PM)



Result: PASSED

300 Ohm High SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Source Impedance:	20 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:	843.0 mVrms
Frequency:	1.00000 kHz

RMS Level (7/21/2020 1:03:20.994 PM)

Ch1 2.000 Vrms
Ch2 1.999 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

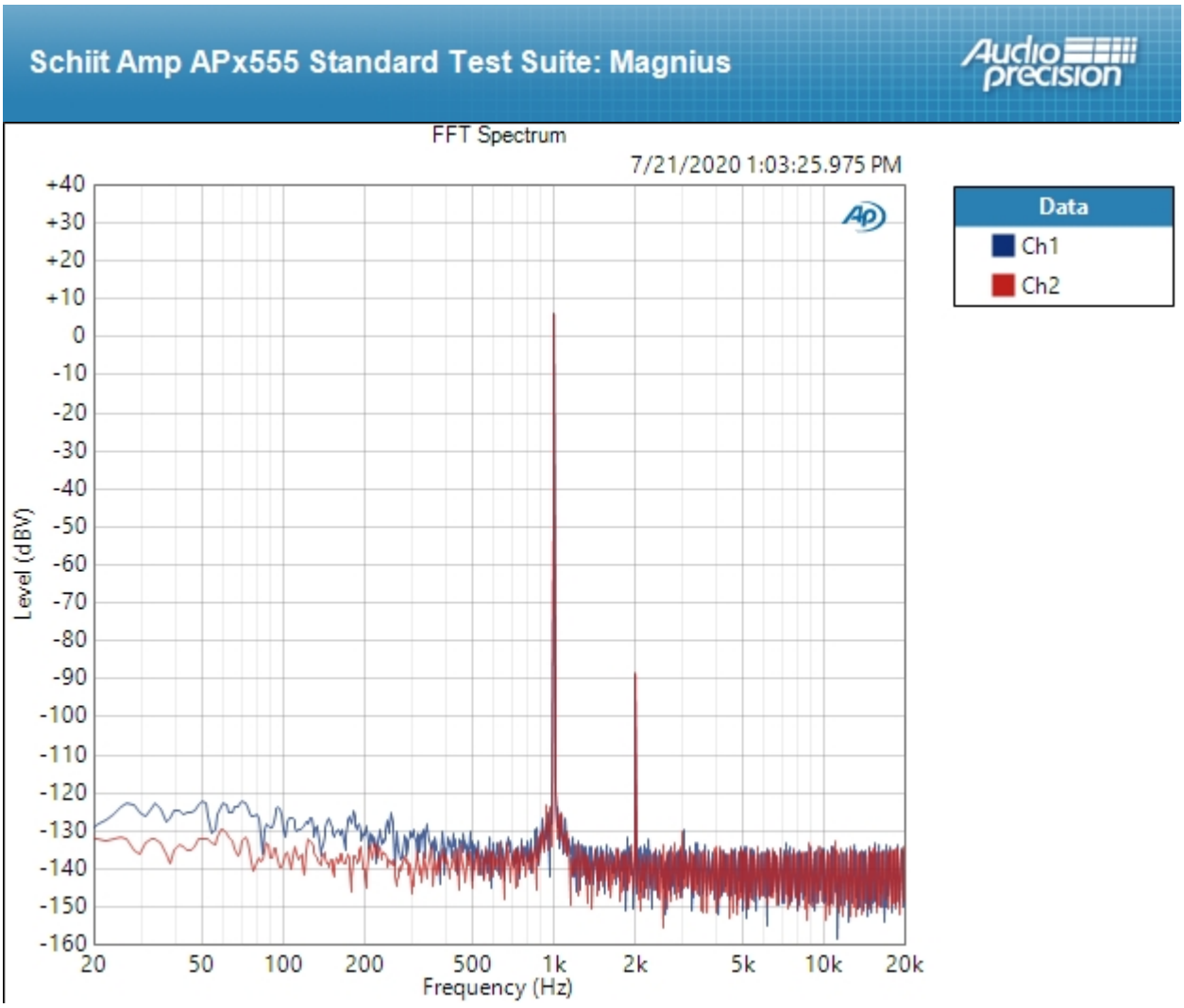
DC Level (7/21/2020 1:03:22.184 PM)

Ch1 -1.546 mV
Ch2 -0.963 mV

300 Ohm High SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	843.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 1:03:25 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 (7/21/2020 1:03:25.975 PM)

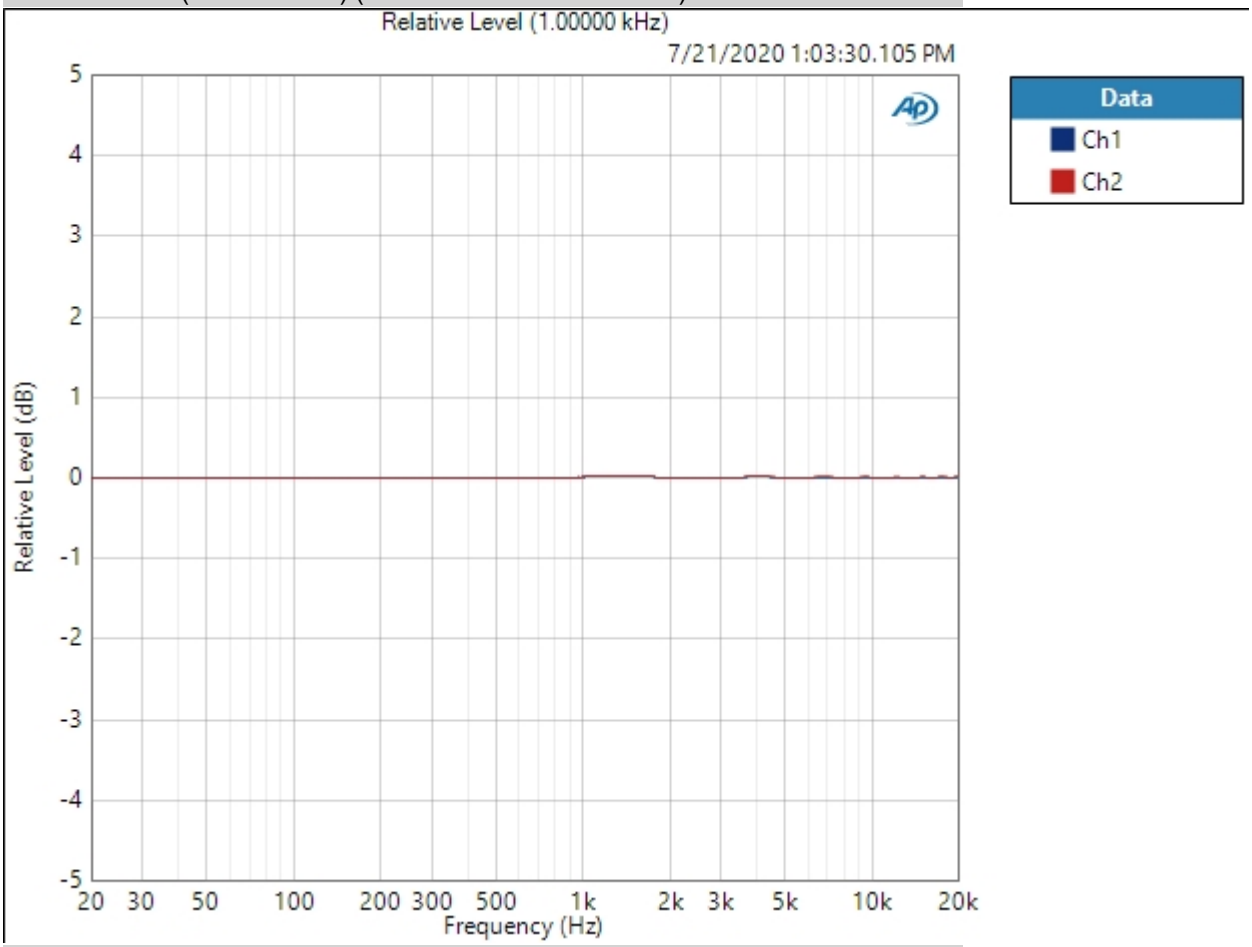


Result: PASSED

300 Ohm High SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	843.0 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	7/21/2020 1:03:30 PM

Relative Level (1.00000 kHz) (7/21/2020 1:03:30.105 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) (7/21/2020 1:03:30.105 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

300 Ohm High SE : Signal to Noise Ratio

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	843.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 1:03:32.155 PM)

Ch1 110.232 dB

Ch2 110.867 dB

300 Ohm High SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	843.0 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 (7/21/2020 1:03:34.275 PM)

Ch1	0.001904 %
Ch2	0.001987 %

THD Ratio (7/21/2020 1:03:34.275 PM)

Ch1	0.001854 %
Ch2	0.001955 %

Noise Ratio (7/21/2020 1:03:34.275 PM)

Ch1	0.000408 %
Ch2	0.000359 %

Distortion Product Ratio (7/21/2020 1:03:34.275 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	8.001k	9.001k	10.00k
Ch1	-0.00	-94.64	-132.53	-140.58	-137.18	-137.68	-136.59	-141.90	-140.49	-140.44
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch2	-0.00	-94.18	-136.25	-136.95	-132.65	-140.91	-139.07	-135.90	-136.22	-138.67

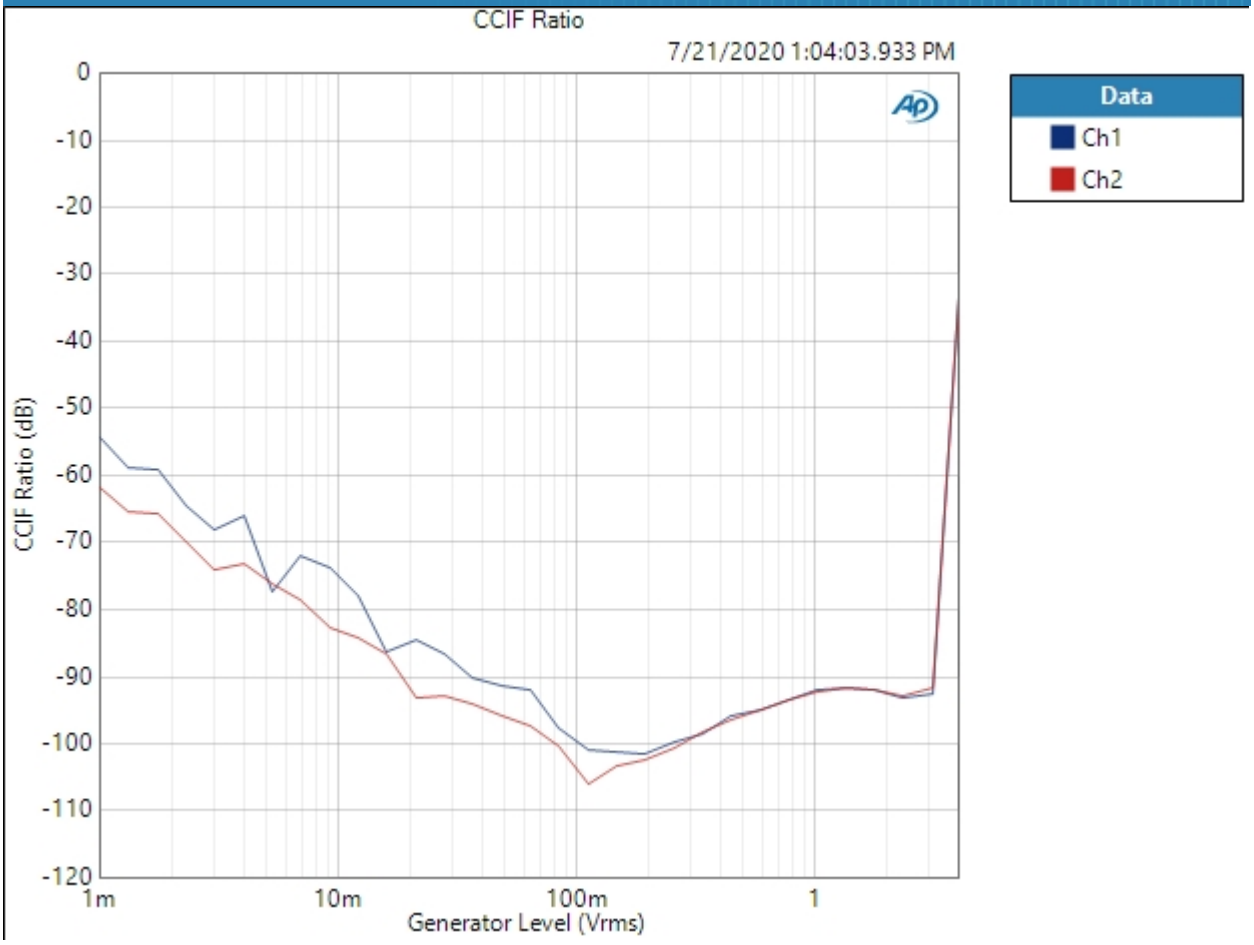
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

300 Ohm High SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	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	7/21/2020 1:04:03 PM

CCIF Ratio (7/21/2020 1:04:03.933 PM)

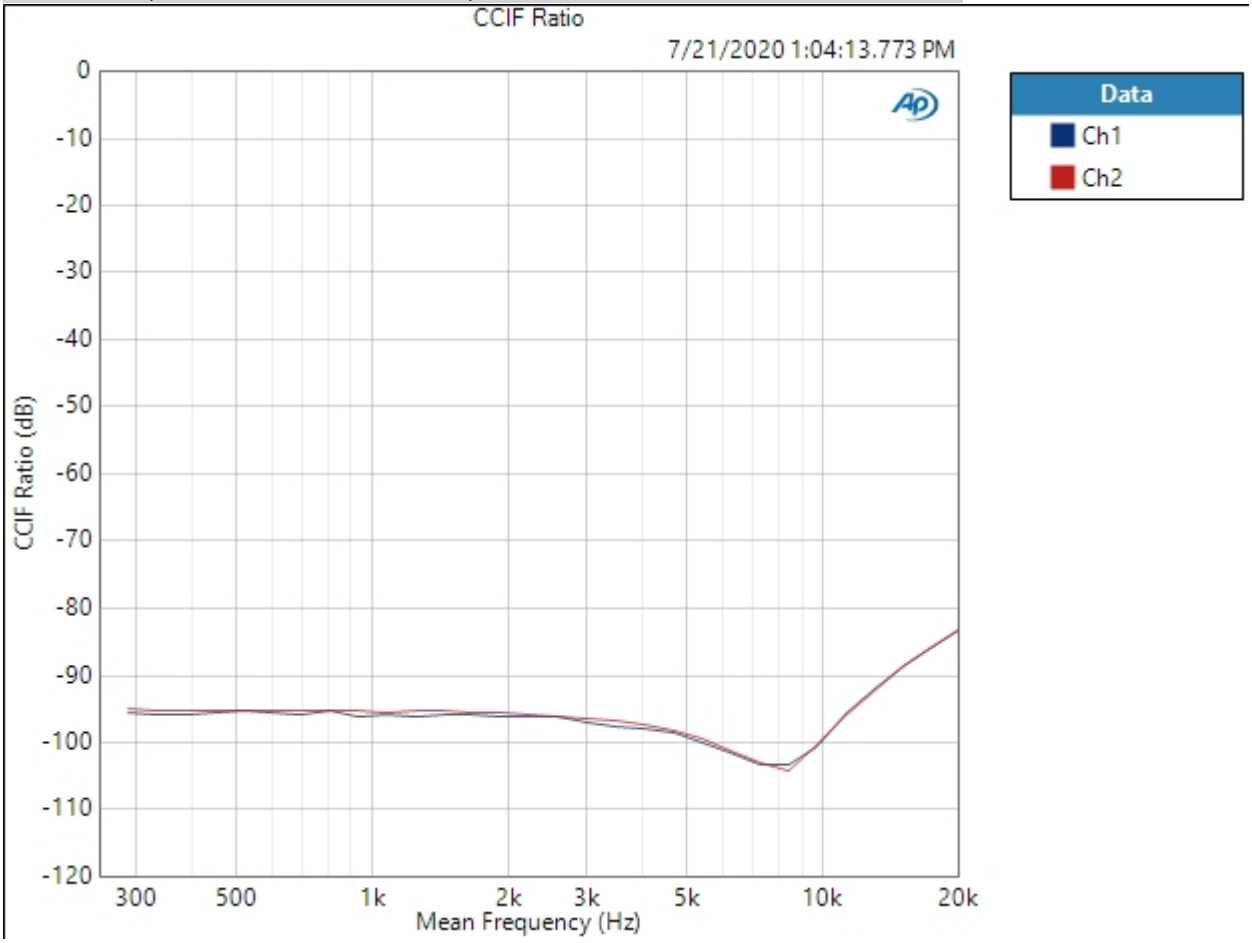


Result: PASSED

300 Ohm High SE : IMD Frequency Sweep (CCIF)

Generator Level:	843.0 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	7/21/2020 1:04:13 PM

CCIF Ratio (7/21/2020 1:04:13.773 PM)



Result: PASSED

300 Ohm High SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	843.0 mVrms
Frequency:	10.0000 kHz

Crosstalk (7/21/2020 1:04:15.323 PM)

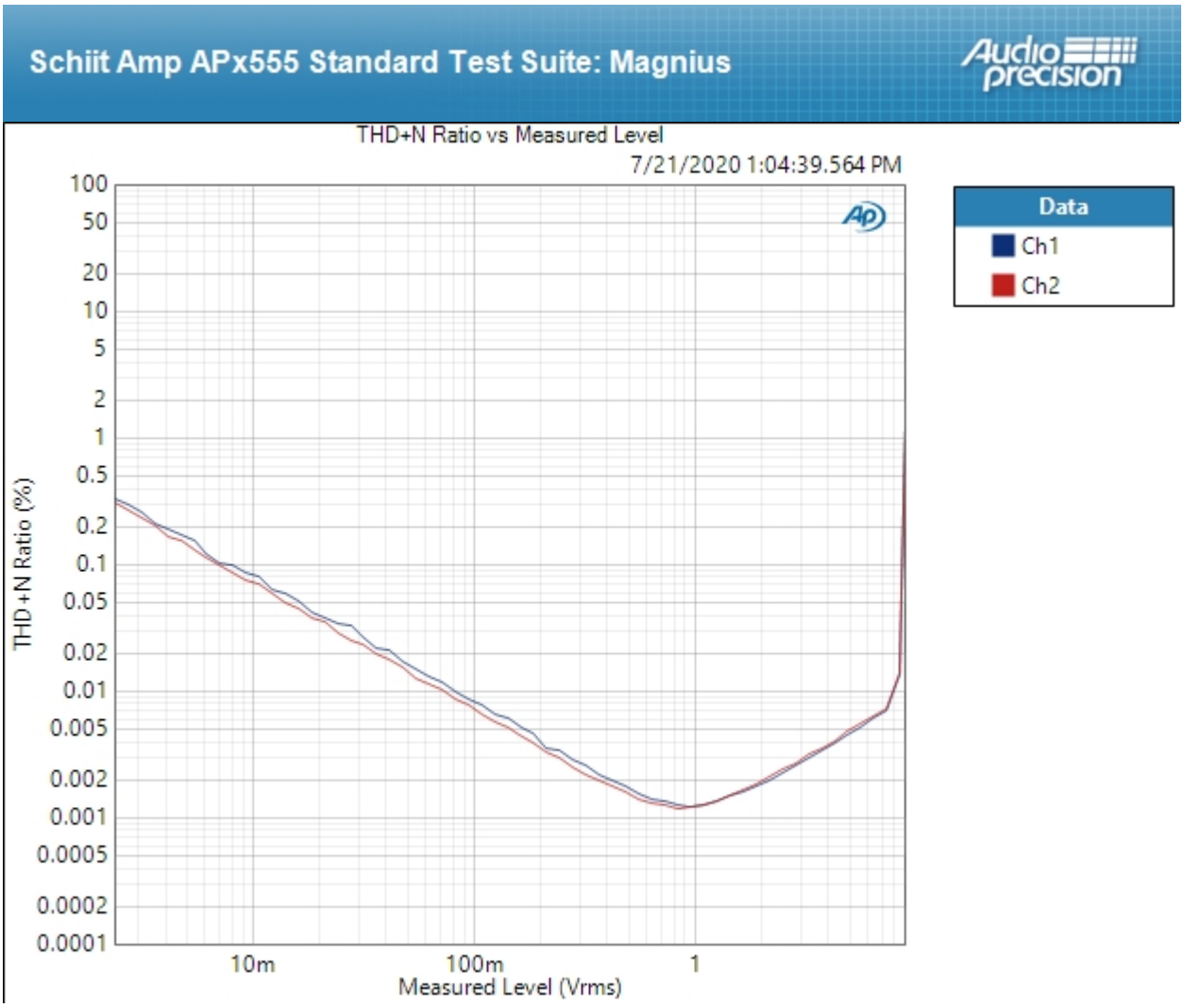
Ch1 -91.512 dB

Ch2 -91.242 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:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	62
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 1:04:39 PM

THD+N Ratio vs Measured Level (7/21/2020 1:04:39.564 PM)



Result: PASSED

32 Ohm Low SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Source Impedance:	20 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:	1.927 Vrms
Frequency:	1.00000 kHz

RMS Level (7/21/2020 1:06:31.748 PM)

Ch1	0.997 Vrms
Ch2	0.997 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

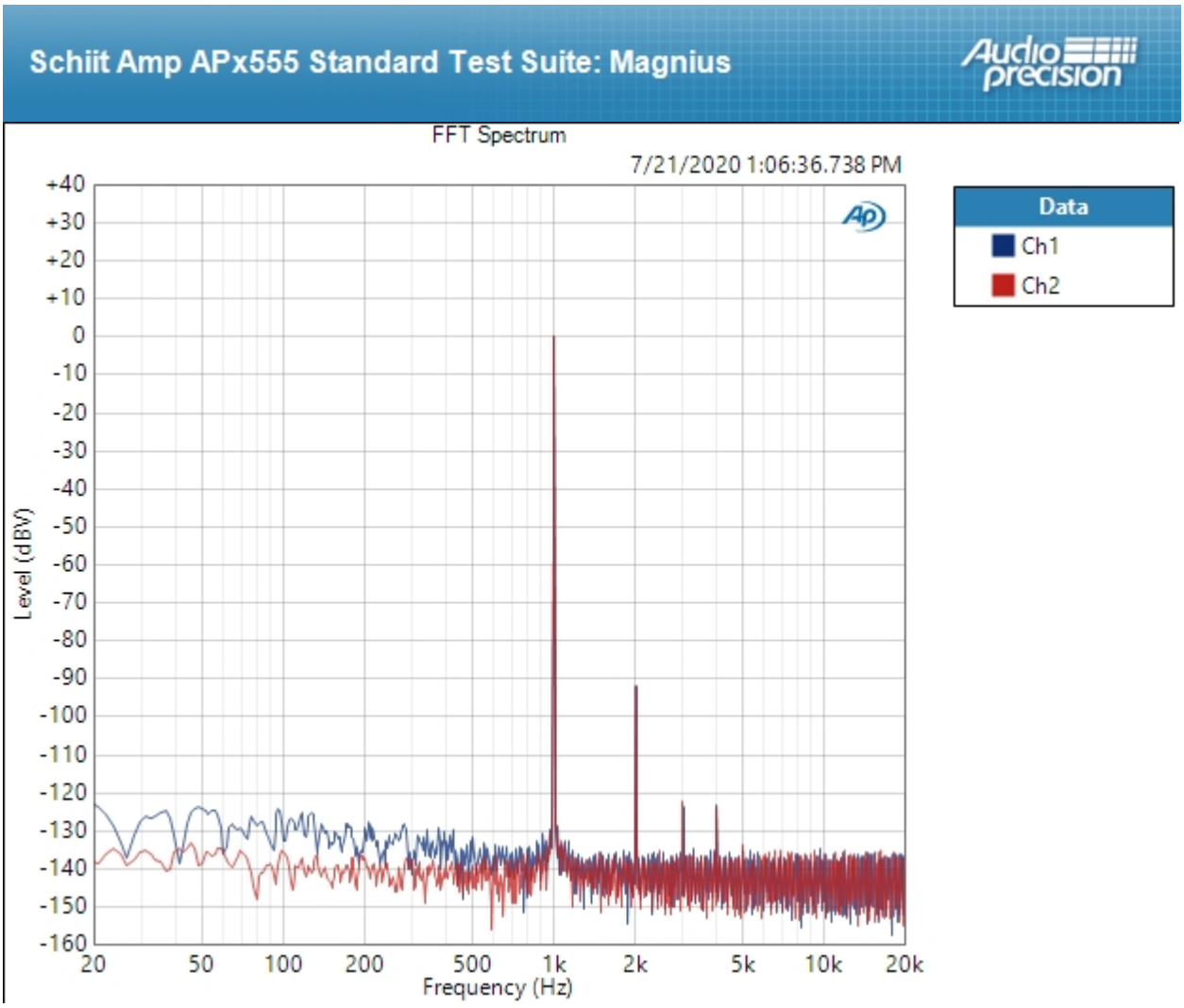
DC Level (7/21/2020 1:06:32.968 PM)

Ch1	-1.858 mV
Ch2	-798.0 uV

32 Ohm Low SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.927 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 1:06:36 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 (7/21/2020 1:06:36.738 PM)

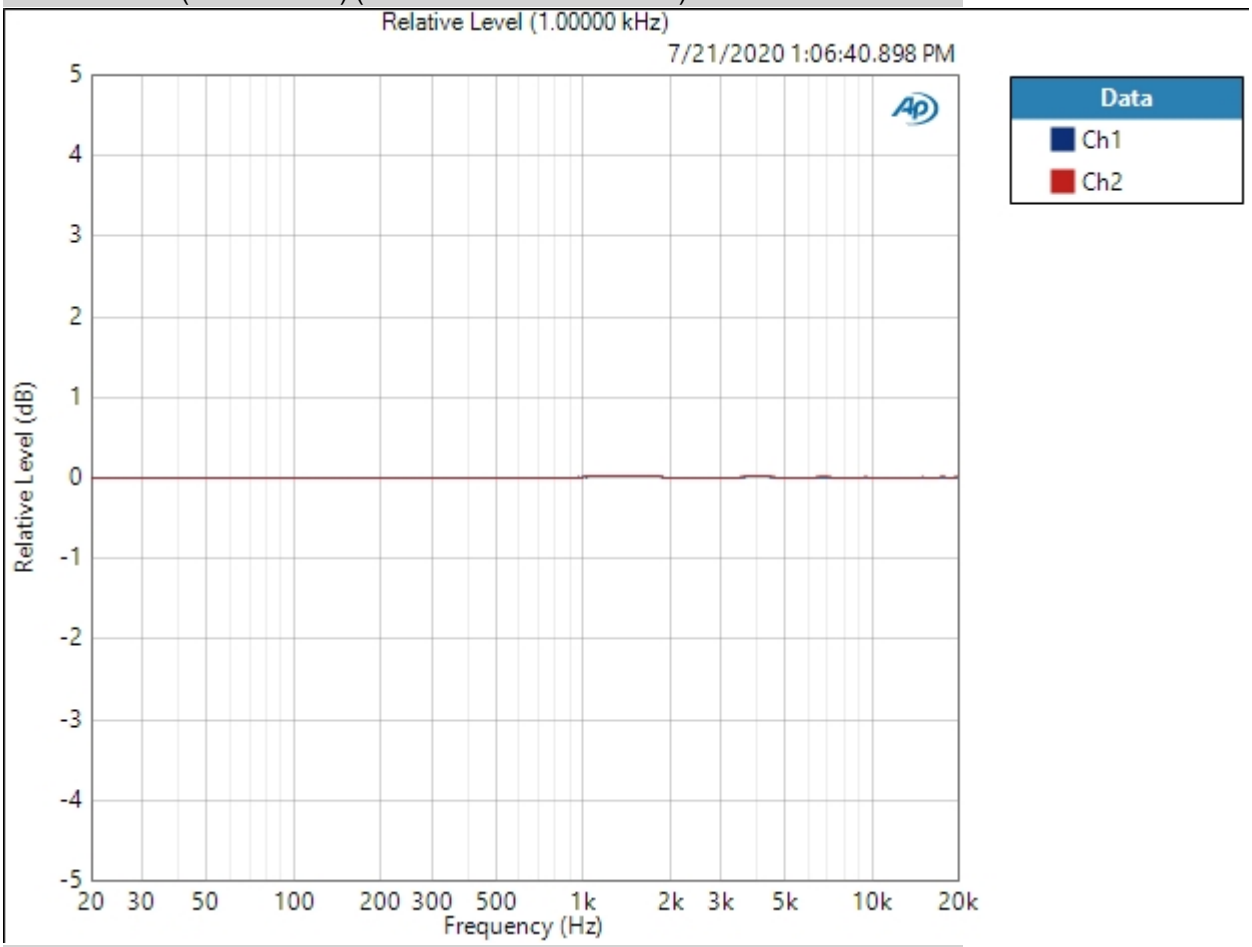


Result: PASSED

32 Ohm Low SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	1.927 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	7/21/2020 1:06:40 PM

Relative Level (1.00000 kHz) (7/21/2020 1:06:40.898 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) (7/21/2020 1:06:40.898 PM)

Ch1 ±0.004 dB

Ch2 ±0.004 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:	1.927 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 1:06:42.958 PM)

Ch1 105.583 dB

Ch2 106.390 dB

32 Ohm Low SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.927 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 (7/21/2020 1:06:45.078 PM)

Ch1 0.002770 %

Ch2 0.002737 %

THD Ratio (7/21/2020 1:06:45.078 PM)

Ch1 0.002673 %

Ch2 0.002657 %

Noise Ratio (7/21/2020 1:06:45.078 PM)

Ch1 0.000681 %

Ch2 0.000586 %

Distortion Product Ratio (7/21/2020 1:06:45.078 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	8.001k	9.001k	10.00k
Ch1	-0.00	-91.47	-124.28	-122.78	-132.72	-131.40	-134.06	-130.39	-130.43	-131.32
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch2	-0.00	-91.53	-120.83	-123.54	-134.24	-134.08	-129.26	-132.17	-132.99	-136.92

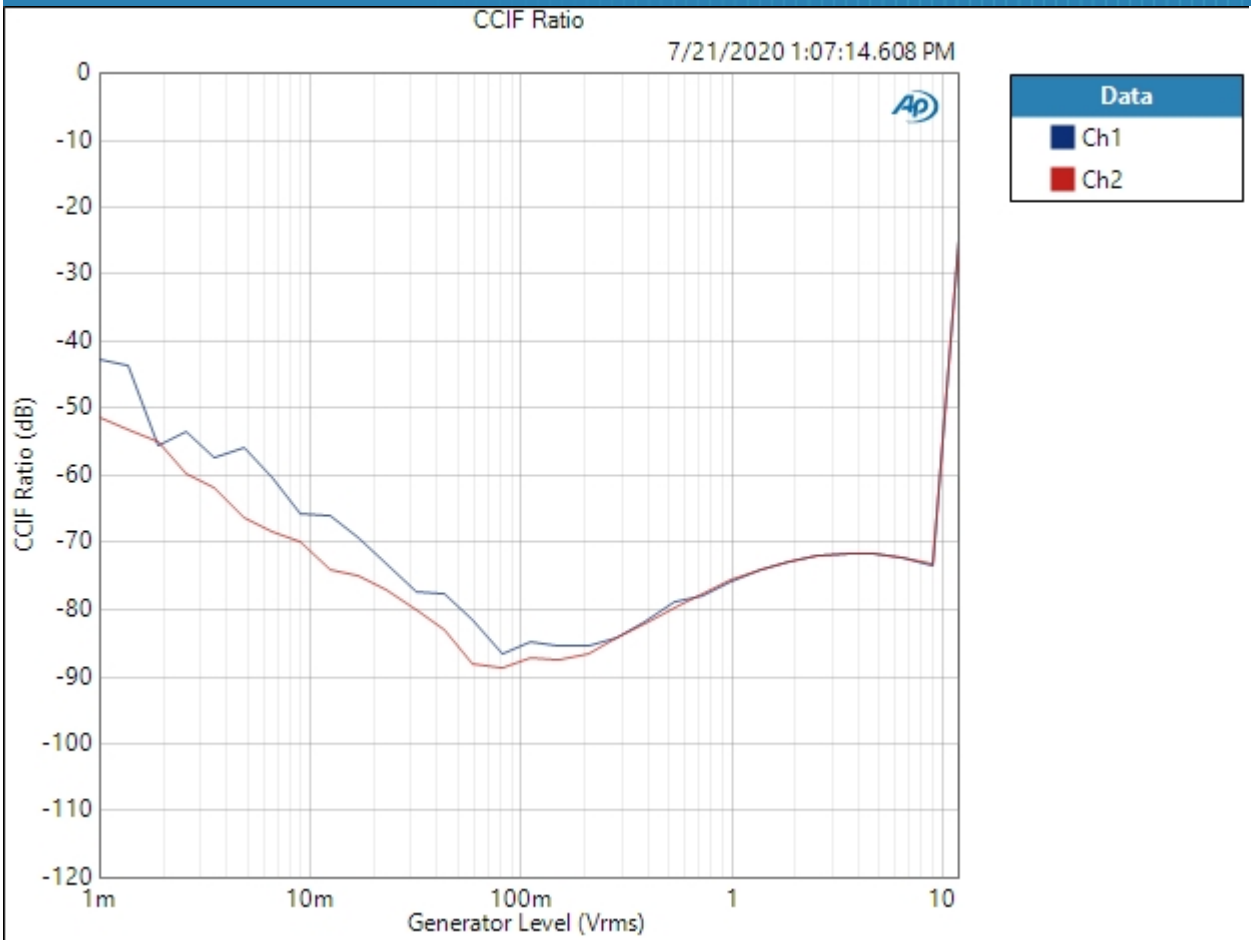
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

32 Ohm Low SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	12.00 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	7/21/2020 1:07:14 PM

CCIF Ratio (7/21/2020 1:07:14.608 PM)

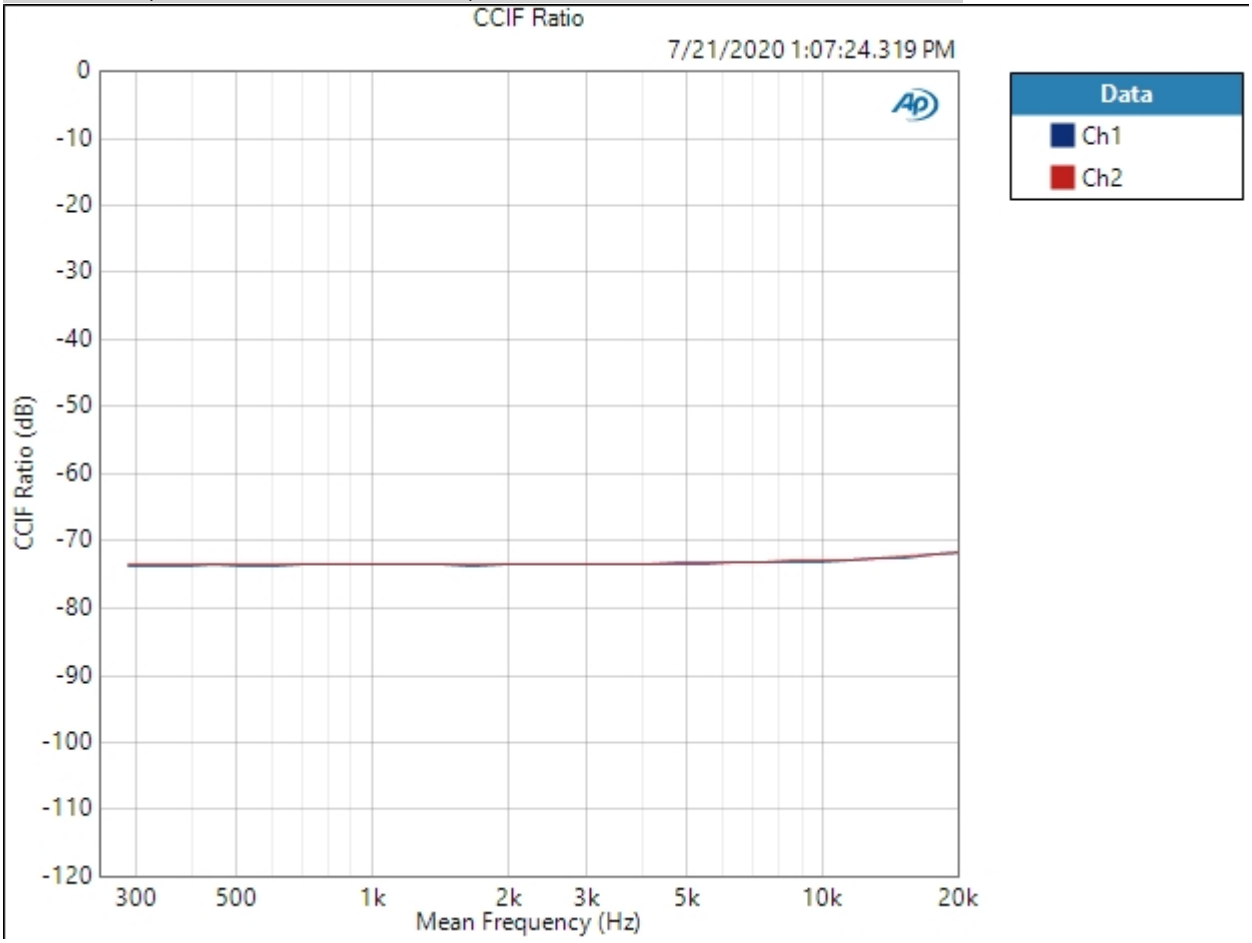


Result: PASSED

32 Ohm Low SE : IMD Frequency Sweep (CCIF)

Generator Level:	1.927 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	7/21/2020 1:07:24 PM

CCIF Ratio (7/21/2020 1:07:24.319 PM)



Result: PASSED

32 Ohm Low SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	1.927 Vrms
Frequency:	10.0000 kHz

Crosstalk (7/21/2020 1:07:25.729 PM)

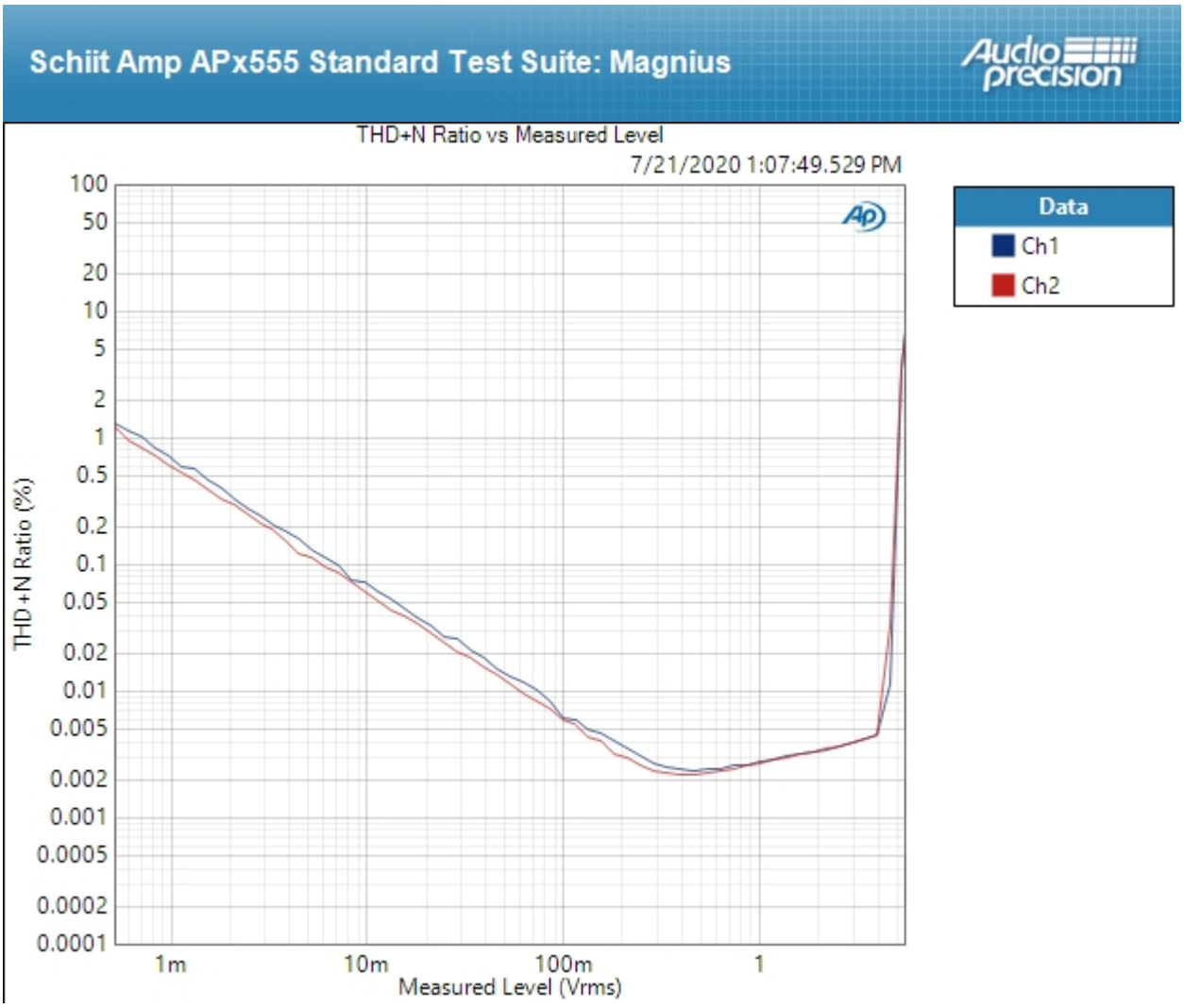
Ch1 -72.443 dB

Ch2 -72.671 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:	62
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 1:07:49 PM

THD+N Ratio vs Measured Level (7/21/2020 1:07:49.529 PM)



Result: PASSED

32 Ohm High SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Source Impedance:	20 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:	843.0 mVrms
Frequency:	1.00000 kHz

RMS Level (7/21/2020 1:09:54.961 PM)

Ch1	1.994 Vrms
Ch2	1.993 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

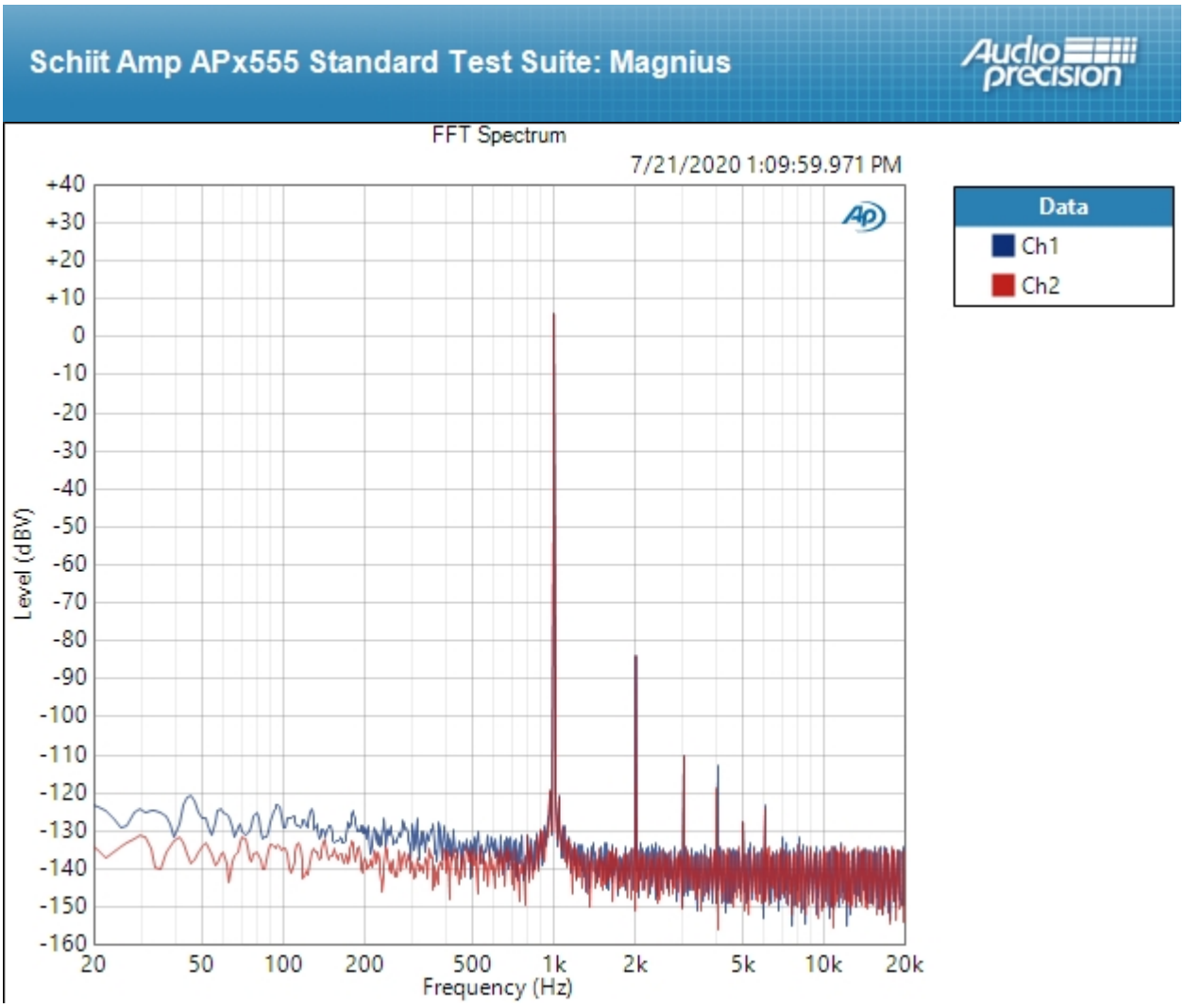
DC Level (7/21/2020 1:09:56.171 PM)

Ch1	-1.540 mV
Ch2	-0.962 mV

32 Ohm High SE : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	843.0 mVrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 1:09:59 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 (7/21/2020 1:09:59.971 PM)

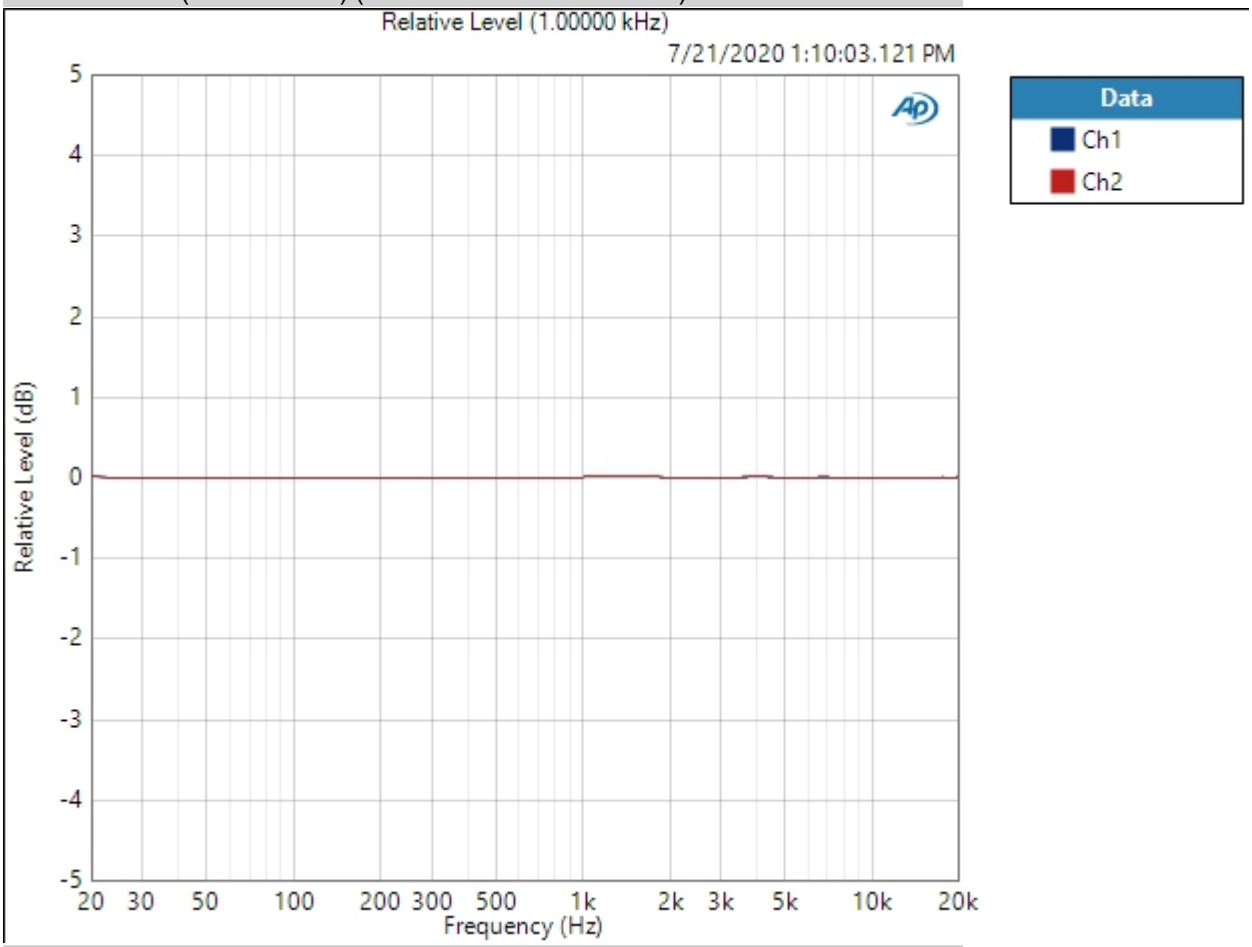


Result: PASSED

32 Ohm High SE : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	843.0 mVrms
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	100.0 ms
Sweep:	350.0 ms
Extend Acquisition By:	500.0 ms
Secondary Source:	None
Measured 1	7/21/2020 1:10:03 PM

Relative Level (1.00000 kHz) (7/21/2020 1:10:03.121 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) (7/21/2020 1:10:03.121 PM)

Ch1 ±0.005 dB

Ch2 ±0.005 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:	843.0 mVrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 1:10:05.201 PM)

Ch1 110.154 dB

Ch2 110.905 dB

32 Ohm High SE : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	843.0 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 (7/21/2020 1:10:07.361 PM)

Ch1	0.003334 %
Ch2	0.003225 %

THD Ratio (7/21/2020 1:10:07.361 PM)

Ch1	0.003305 %
Ch2	0.003204 %

Noise Ratio (7/21/2020 1:10:07.361 PM)

Ch1	0.000400 %
Ch2	0.000357 %

Distortion Product Ratio (7/21/2020 1:10:07.361 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	-89.63	-116.43	-118.65	-132.40	-128.41	-138.86	-135.59	-138.78	-135.61
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-89.90	-115.89	-124.35	-130.84	-130.81	-133.37	-139.14	-132.67	-138.90

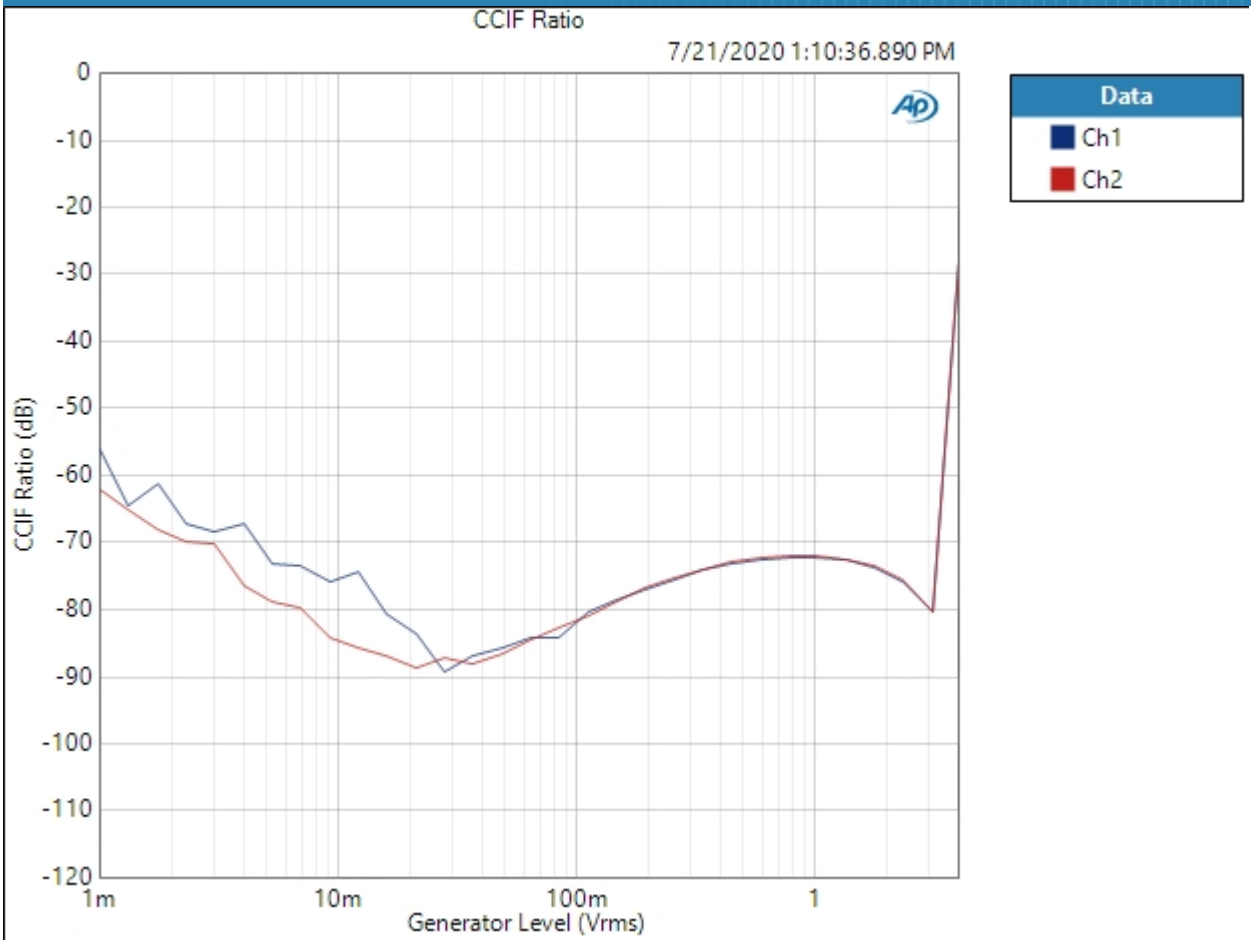
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

32 Ohm High SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	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	7/21/2020 1:10:36 PM

CCIF Ratio (7/21/2020 1:10:36.890 PM)

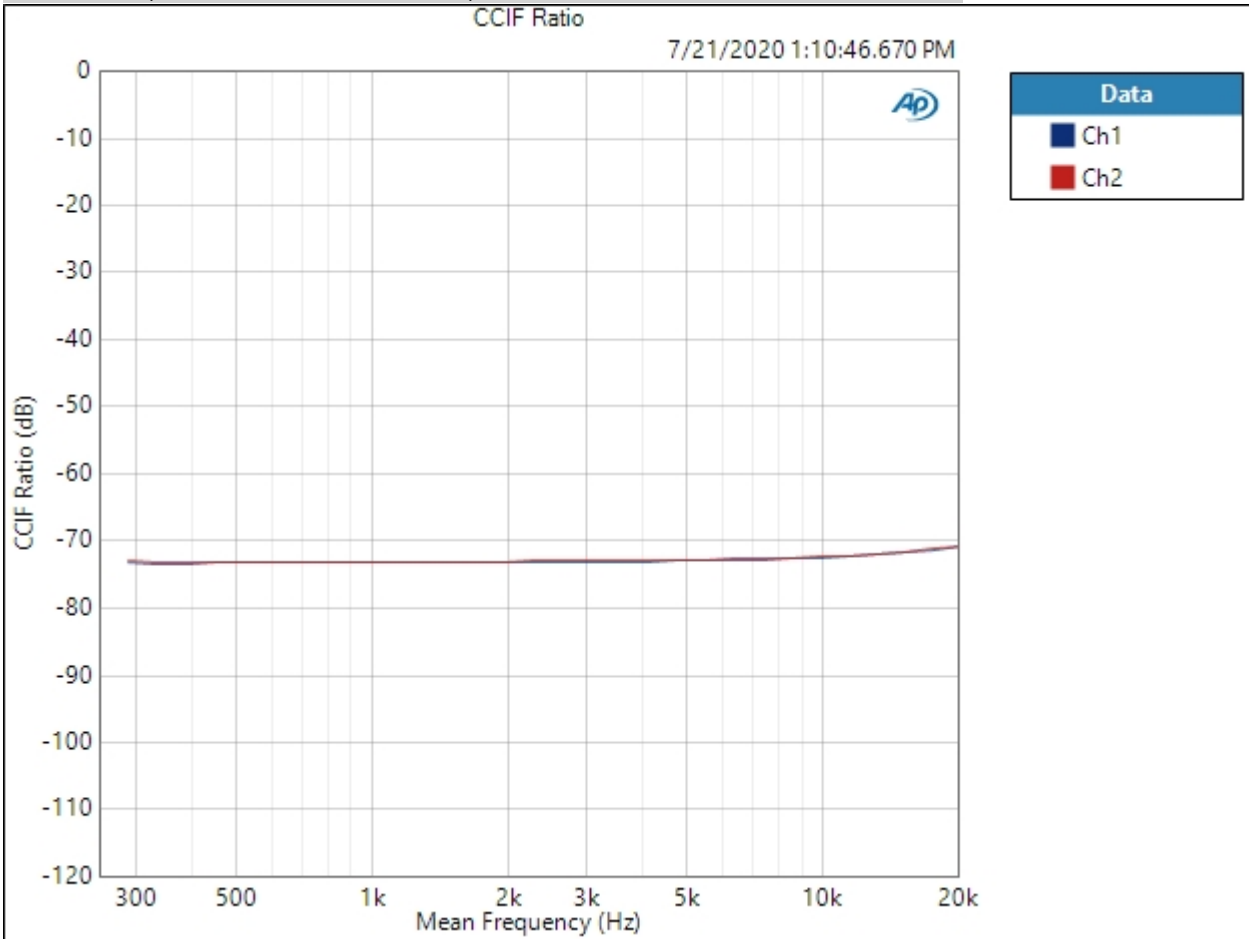


Result: PASSED

32 Ohm High SE : IMD Frequency Sweep (CCIF)

Generator Level:	843.0 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	7/21/2020 1:10:46 PM

CCIF Ratio (7/21/2020 1:10:46.670 PM)



Result: PASSED

32 Ohm High SE : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	843.0 mVrms
Frequency:	10.0000 kHz

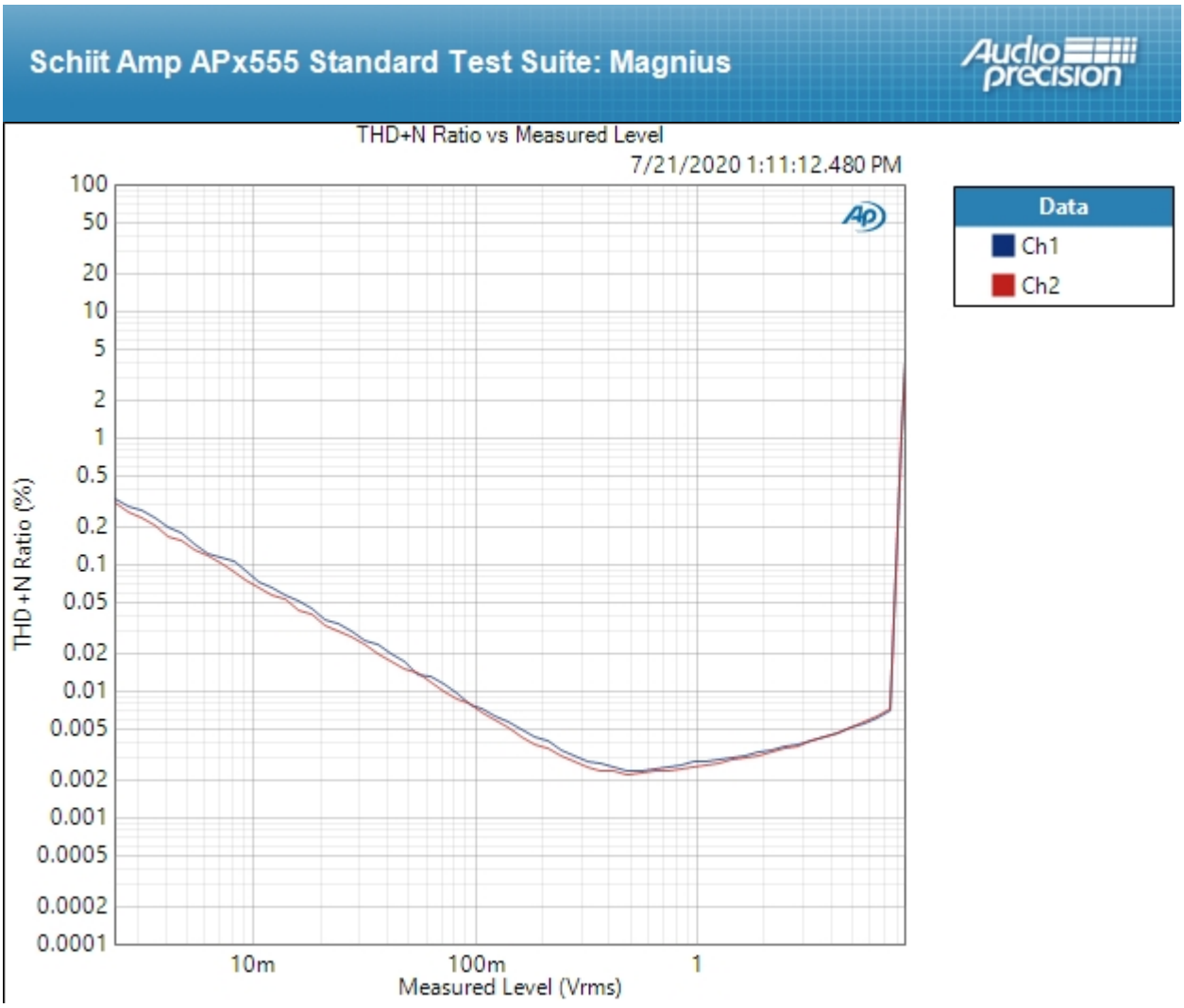
Crosstalk (7/21/2020 1:10:48.070 PM)

Ch1 -72.460 dB
Ch2 -72.858 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:	4.000 Vrms
Step Type:	Logarithmic
Number of Points:	62
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 1:11:12 PM

THD+N Ratio vs Measured Level (7/21/2020 1:11:12.480 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:	4.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz

RMS Level (7/21/2020 1:15:02.629 PM)

Ch1 4.150 Vrms
Ch2 4.149 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

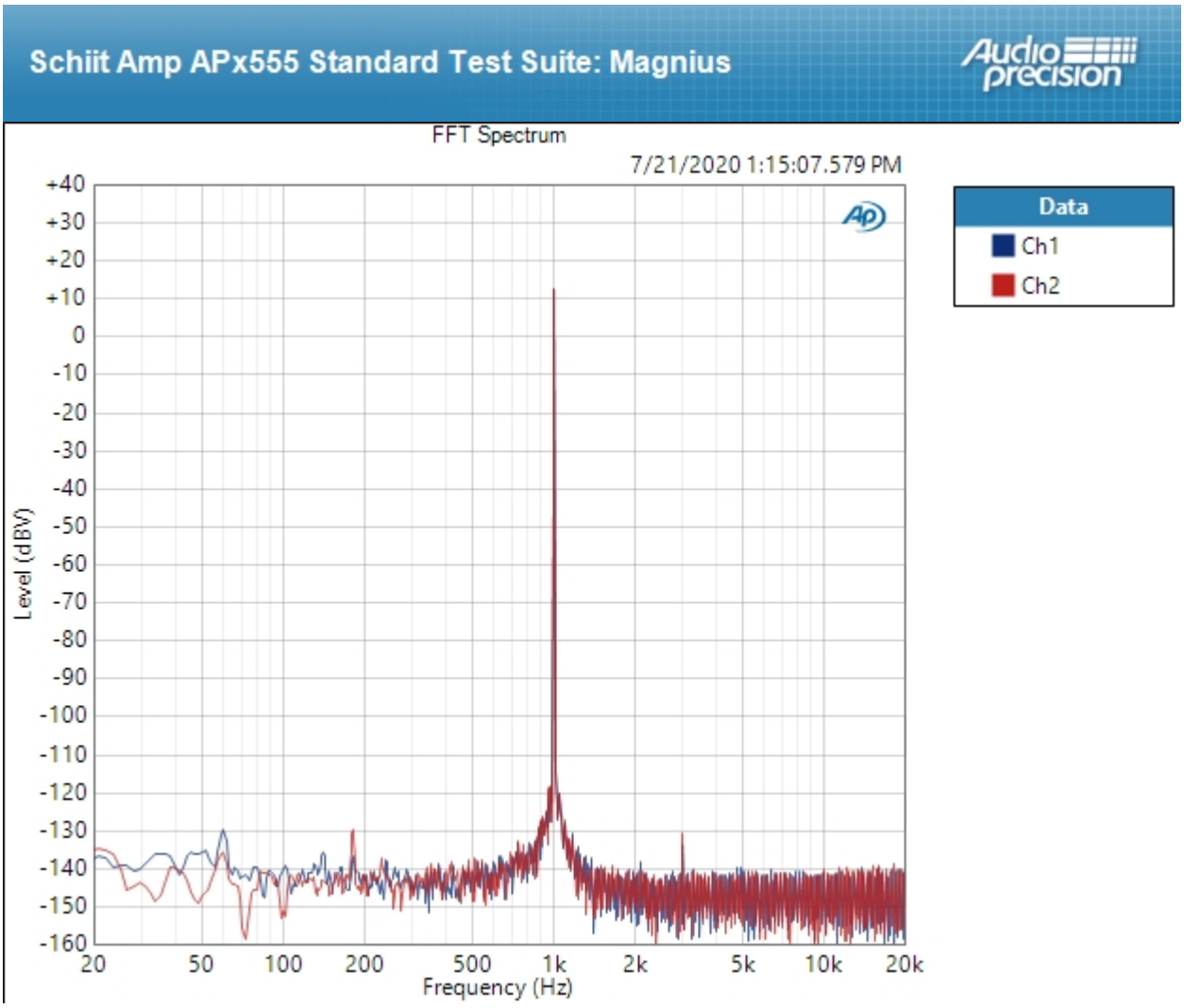
DC Level (7/21/2020 1:15:03.809 PM)

Ch1 121.7 uV
Ch2 -203.0 uV

Preamp Balanced : Signal Analyzer

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	4.000 Vrms
Frequency:	1.00000 kHz
Secondary Source:	None
Measured 1	7/21/2020 1:15:07 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 (7/21/2020 1:15:07.579 PM)

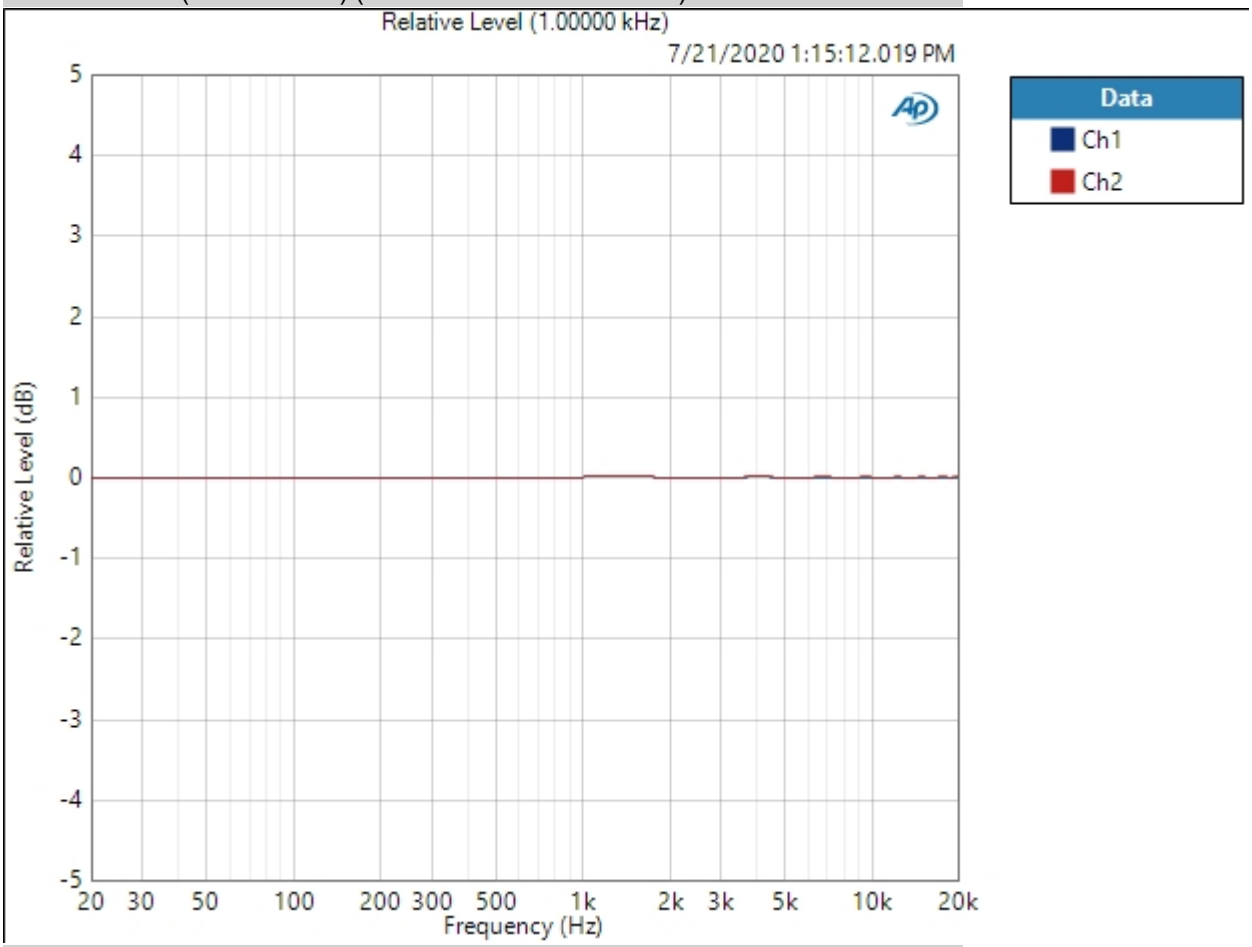


Result: PASSED

Preamp Balanced : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	4.000 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	7/21/2020 1:15:12 PM

Relative Level (1.00000 kHz) (7/21/2020 1:15:12.019 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) (7/21/2020 1:15:12.019 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:	4.000 Vrms
Frequency:	1.00000 kHz
Low-pass Filter:	20 kHz
Weighting Filter:	A-wt.
High-pass Filter:	20 Hz

Signal to Noise Ratio (7/21/2020 1:15:14.060 PM)

Ch1 127.474 dB

Ch2 127.497 dB

Preamp Balanced : THD+N

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	4.000 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 (7/21/2020 1:15:16.446 PM)

Ch1	0.000092 %
Ch2	0.000089 %

THD Ratio (7/21/2020 1:15:16.446 PM)

Ch1	0.000015 %
Ch2	0.000016 %

Noise Ratio (7/21/2020 1:15:16.446 PM)

Ch1	0.000088 %
Ch2	0.000088 %

Distortion Product Ratio (7/21/2020 1:15:16.446 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	-151.69	-146.08	-153.62	-149.14	-149.04	-146.39	-152.73	-148.17	-147.28
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.001k	8.001k	9.001k	10.00k
Ch2	-0.00	-150.65	-140.67	-148.93	-147.38	-152.50	-152.39	-152.35	-153.07	-151.70

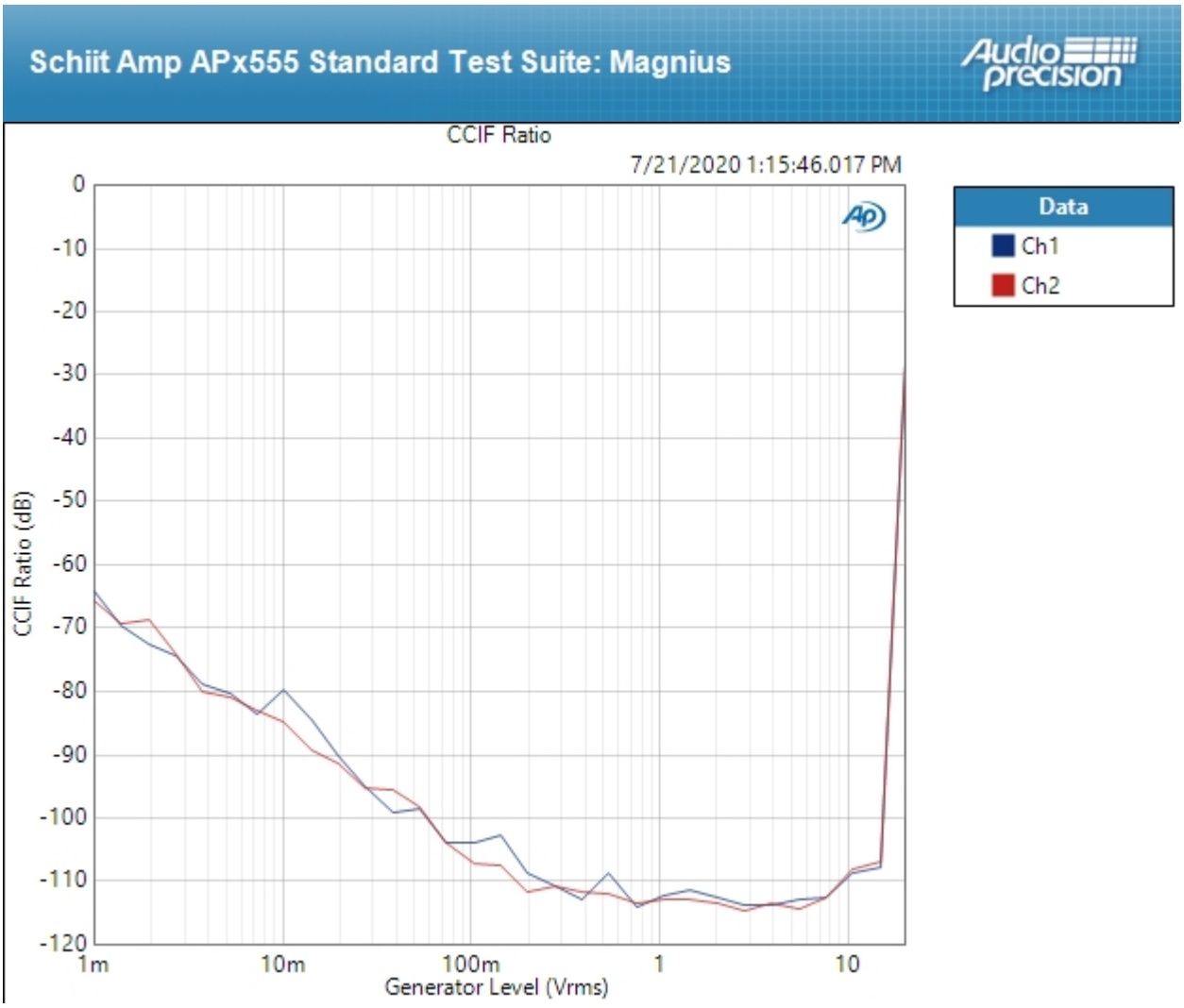
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

Preamp Balanced : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	20.00 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:	20.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	7/21/2020 1:15:46 PM

CCIF Ratio (7/21/2020 1:15:46.017 PM)

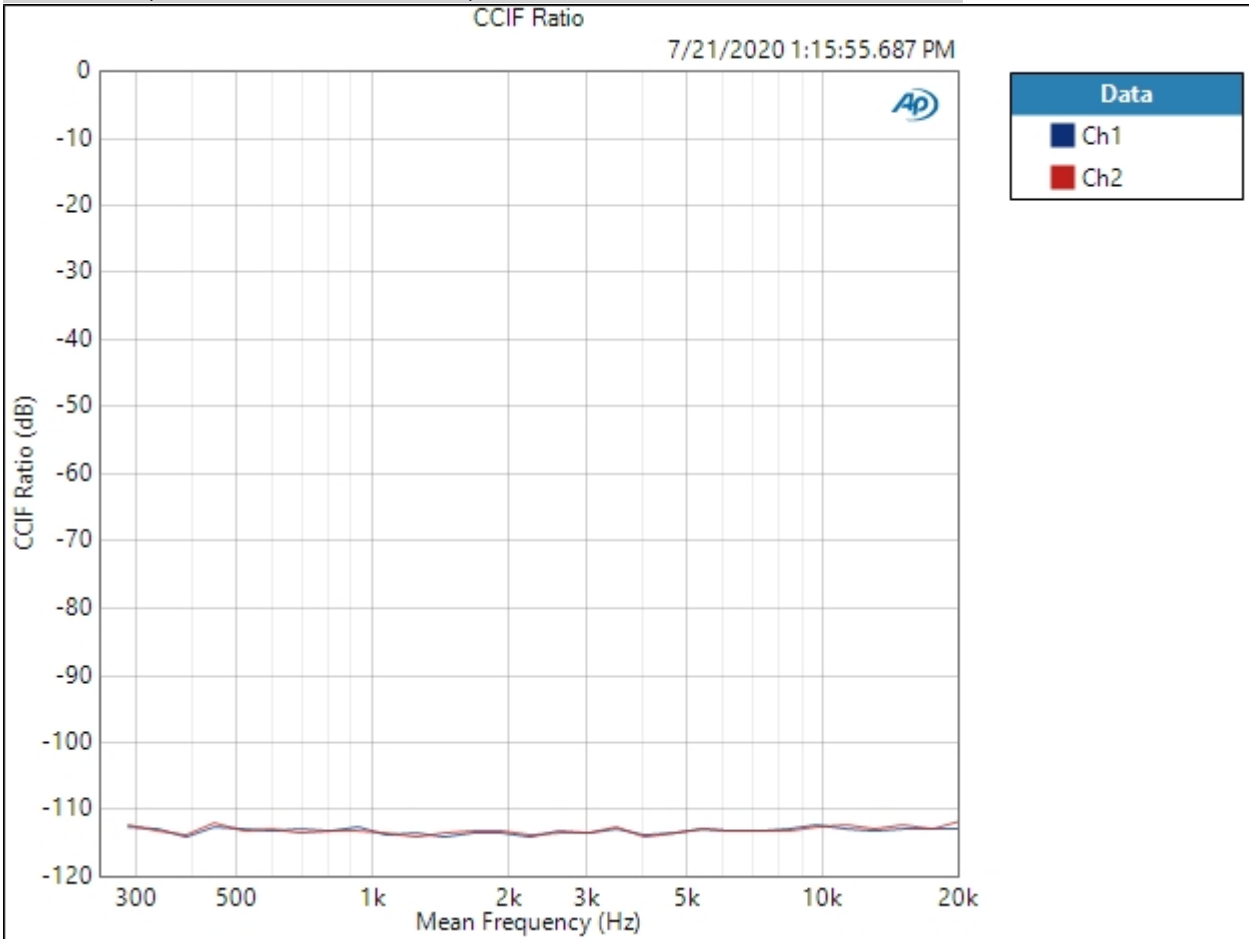


Result: PASSED

Preamp Balanced : IMD Frequency Sweep (CCIF)

Generator Level:	4.000 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	7/21/2020 1:15:55 PM

CCIF Ratio (7/21/2020 1:15:55.687 PM)



Result: PASSED

Preamp Balanced : Crosstalk, One Channel Undriven

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Generator Level:	4.000 Vrms
Frequency:	10.0000 kHz

Crosstalk (7/21/2020 1:15:57.697 PM)

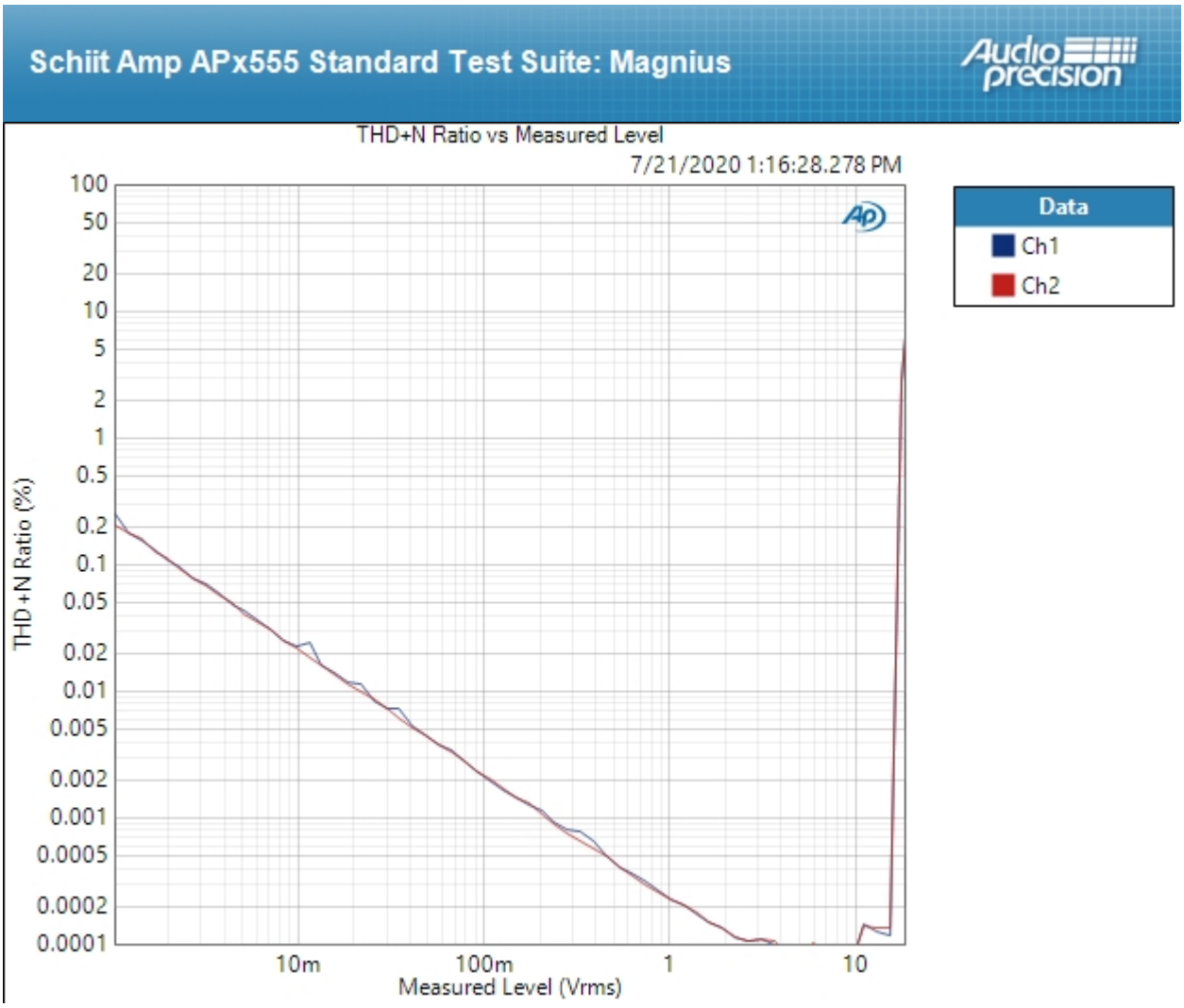
Ch1 -121.930 dB

Ch2 -122.022 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:	20.00 Vrms
Step Type:	Logarithmic
Number of Points:	63
Low-pass Filter:	20 kHz
Weighting Filter:	Signal Path
High-pass Filter:	20 Hz
Notch Tuning Mode:	Generator Frequency
Measured 1	7/21/2020 1:16:28 PM

THD+N Ratio vs Measured Level (7/21/2020 1:16:28.278 PM)



Result: PASSED

Preamp SE : Signal Path Setup

Output Connector:	Analog Unbalanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Source Impedance:	20 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 (7/21/2020 1:19:30.371 PM)

Ch1 1.038 Vrms
Ch2 1.038 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

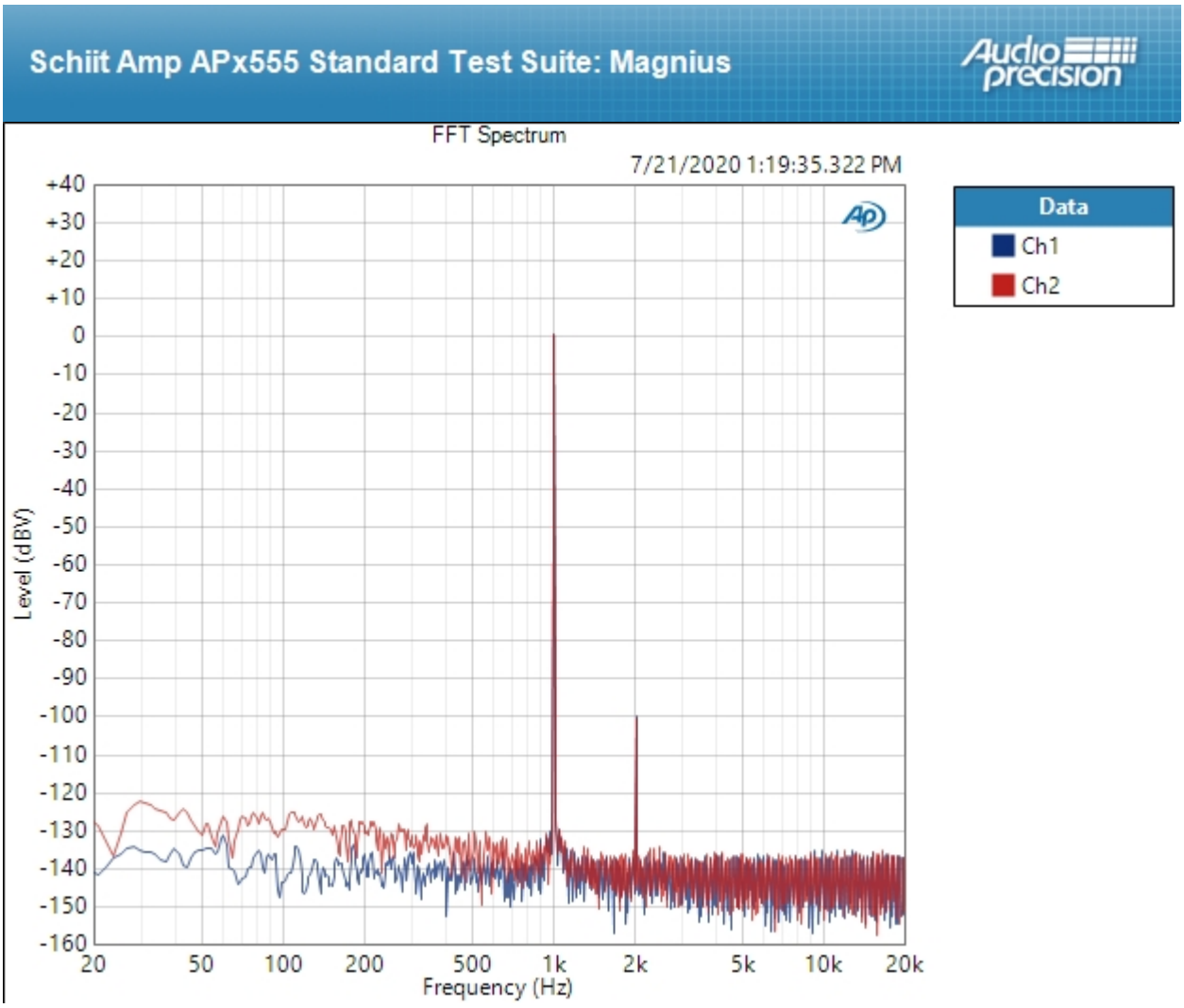
DC Level (7/21/2020 1:19:31.562 PM)

Ch1 -0.977 mV
Ch2 -1.721 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	7/21/2020 1:19:35 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 (7/21/2020 1:19:35.322 PM)

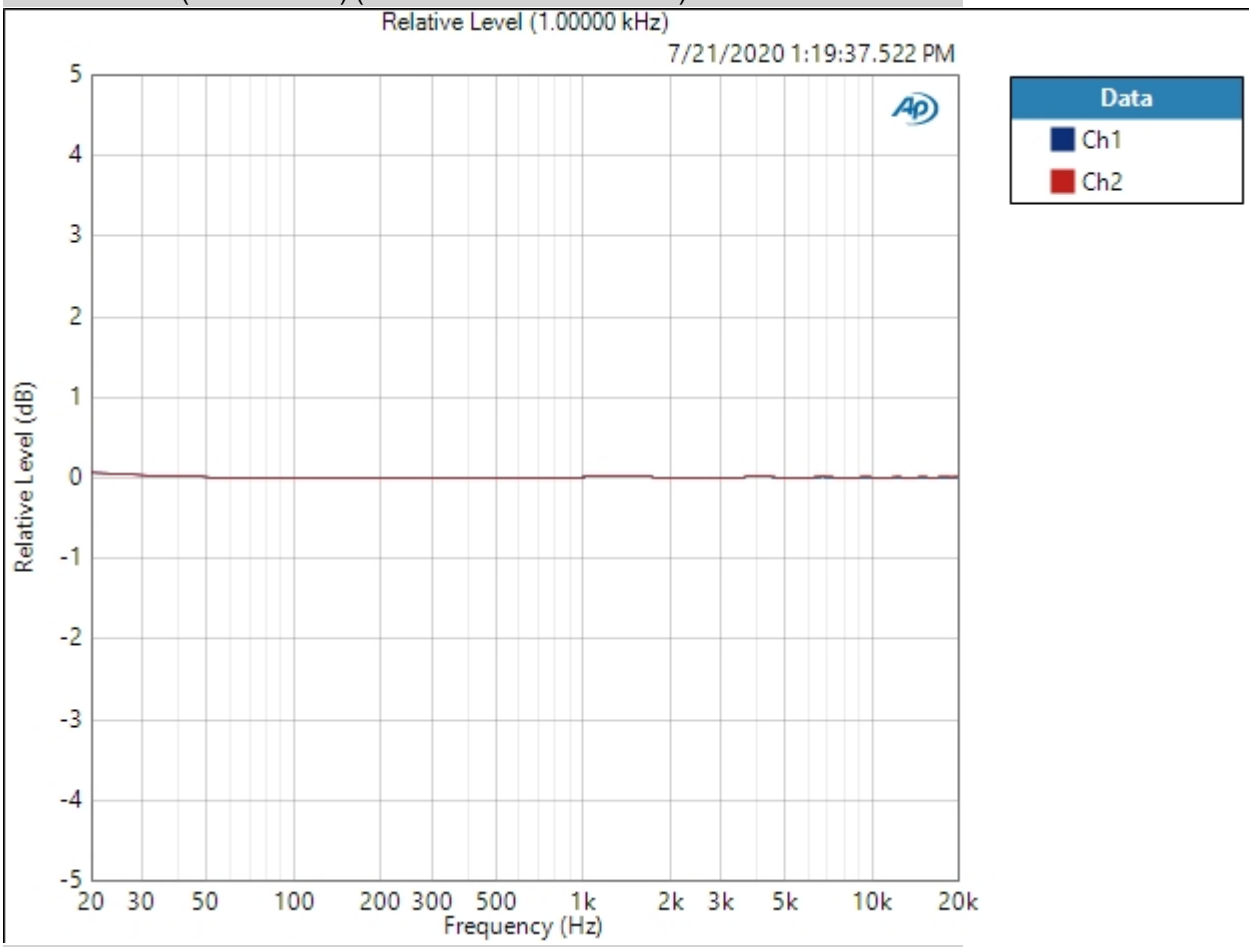


Result: PASSED

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:	50.00 ms
Secondary Source:	None
Measured 1	7/21/2020 1:19:37 PM

Relative Level (1.00000 kHz) (7/21/2020 1:19:37.522 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) (7/21/2020 1:19:37.522 PM)

Ch1 ±0.038 dB

Ch2 ±0.038 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 (7/21/2020 1:19:39.572 PM)

Ch1 106.776 dB

Ch2 105.896 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 (7/21/2020 1:19:41.962 PM)

Ch1 0.001128 %

Ch2 0.001145 %

THD Ratio (7/21/2020 1:19:41.962 PM)

Ch1 0.000974 %

Ch2 0.000927 %

Noise Ratio (7/21/2020 1:19:41.962 PM)

Ch1 0.000572 %

Ch2 0.000678 %

Distortion Product Ratio (7/21/2020 1:19:41.962 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	8.001k	9.001k	10.00k
Ch1	-0.00	-100.27	-131.40	-130.84	-135.98	-131.77	-136.54	-135.16	-132.55	-132.75
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch2	-0.00	-100.71	-138.72	-134.67	-128.86	-130.05	-134.05	-132.17	-132.99	-136.89

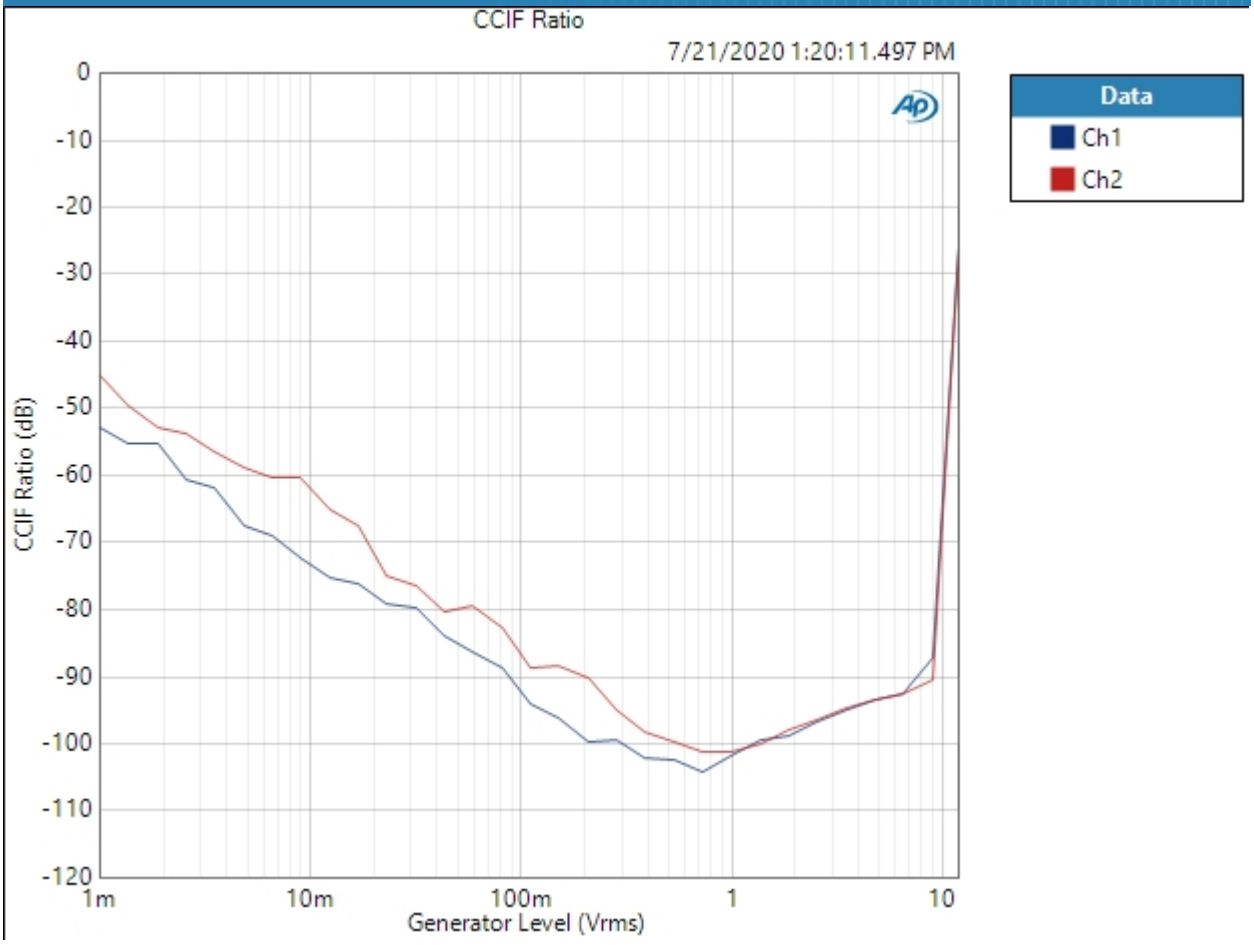
Distortion Product Ratio Parameters

Frequency Unit:	Hz
Ratio Unit:	dB

Preamp SE : IMD Level Sweep (CCIF)

IMD Type:	CCIF
Waveform:	IMD
Generator Level:	12.00 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:	12.00 Vrms
Step Type:	Logarithmic
Number of Points:	31
Mode:	d2+d3
Measured 1	7/21/2020 1:20:11 PM

CCIF Ratio (7/21/2020 1:20:11.497 PM)

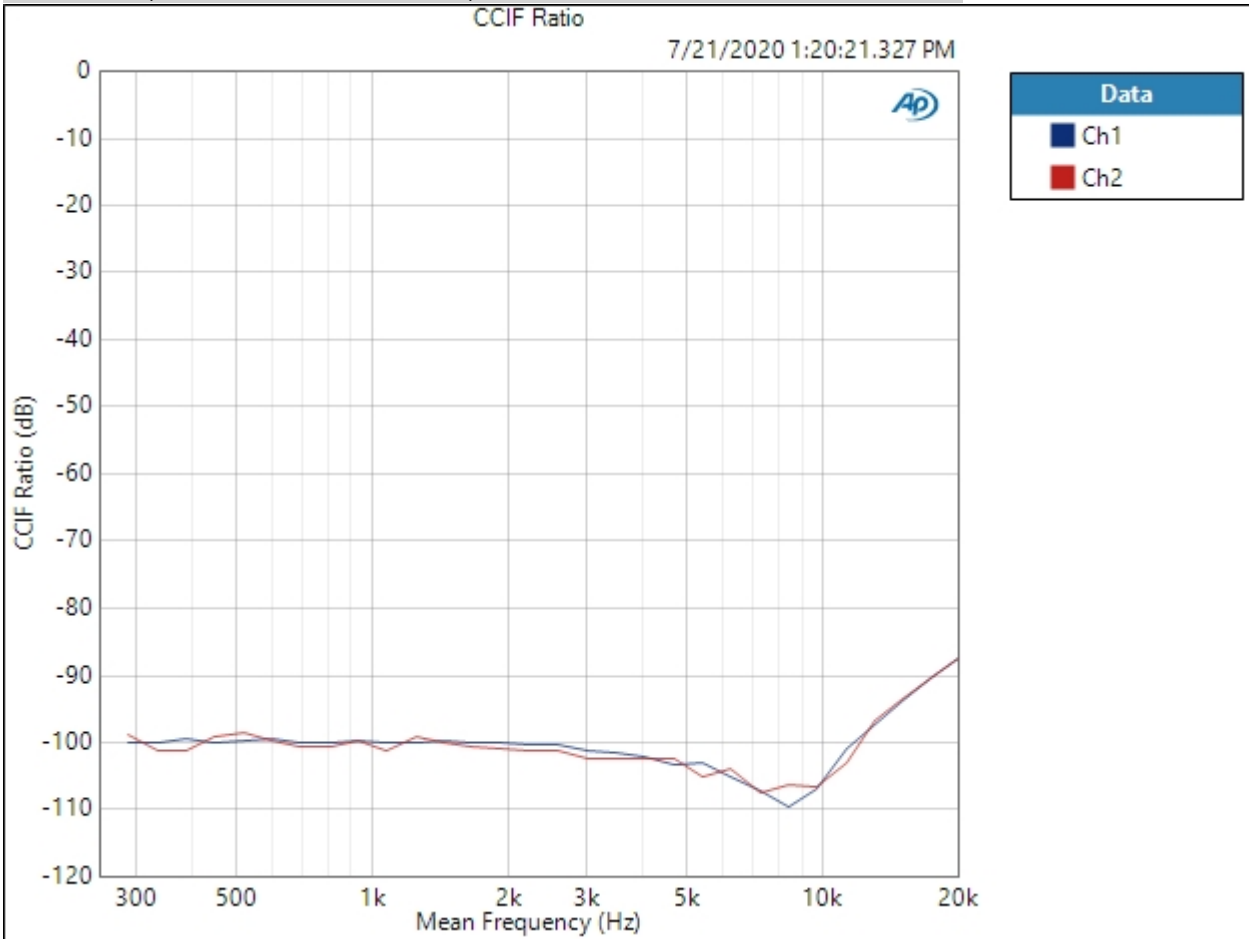


Result: PASSED

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	7/21/2020 1:20:21 PM

CCIF Ratio (7/21/2020 1:20:21.327 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 (7/21/2020 1:20:26.367 PM)

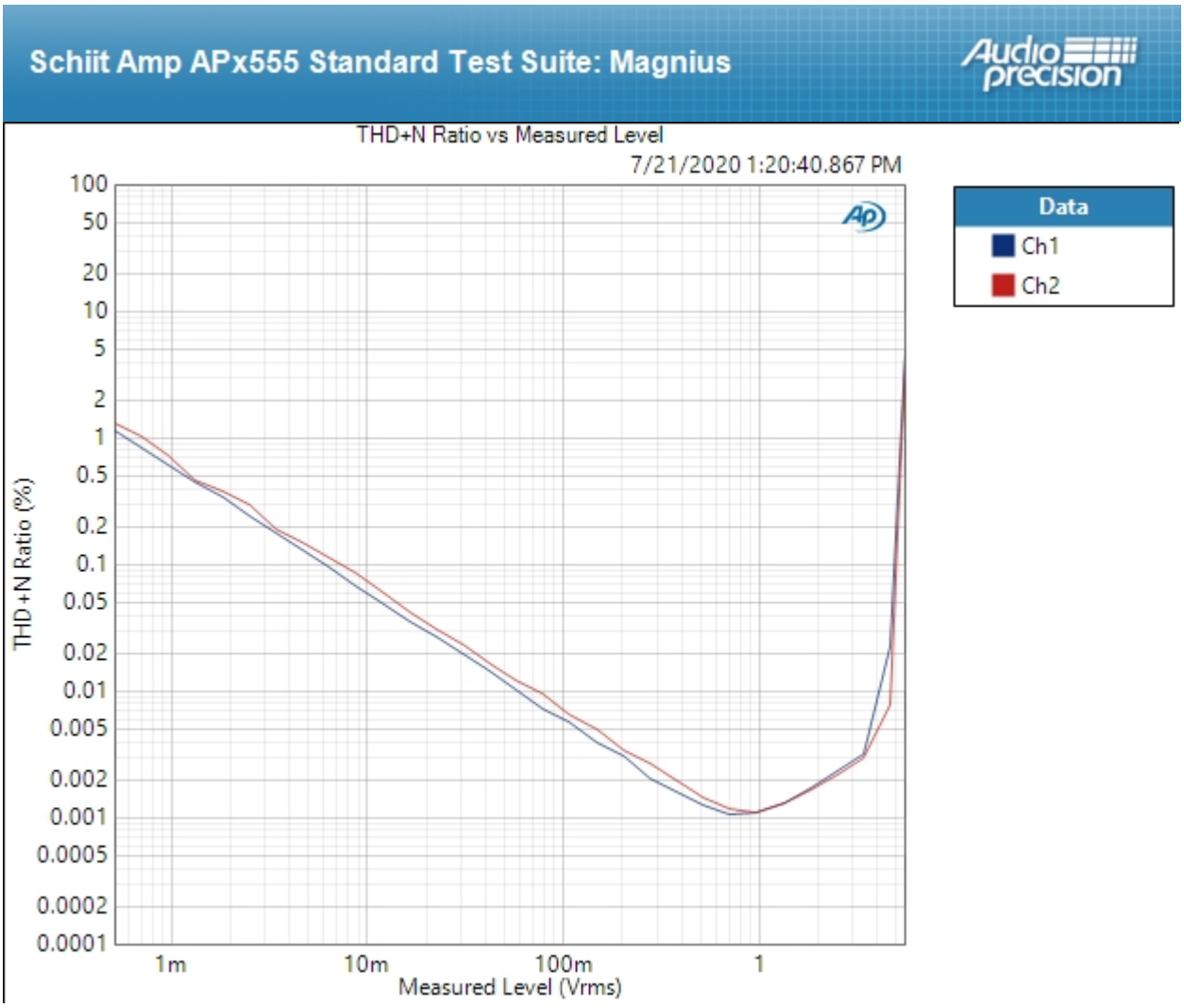
Ch1 -119.299 dB

Ch2 -123.536 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:	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	7/21/2020 1:20:40 PM

THD+N Ratio vs Measured Level (7/21/2020 1:20:40.867 PM)



Result: PASSED