

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@schiiit.com so we can have a look.

Summary

300 Ohm Low Gain

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Signal Analyzer	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ PASSED
IMD Level Sweep (CCIF)	✓ PASSED
IMD Frequency Sweep (CCIF)	✓ PASSED
Crosstalk, One Channel Undriven	✓ PASSED
Stepped Level Sweep	✓ PASSED

300 Ohm High Gain

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Signal Analyzer	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ PASSED
IMD Level Sweep (CCIF)	✓ PASSED
IMD Frequency Sweep (CCIF)	✓ PASSED
Crosstalk, One Channel Undriven	✓ PASSED
Stepped Level Sweep	✓ PASSED

32 Ohm Low Gain

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Signal Analyzer	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ PASSED
IMD Level Sweep (CCIF)	✓ PASSED
IMD Frequency Sweep (CCIF)	✓ PASSED
Crosstalk, One Channel Undriven	✓ PASSED
Stepped Level Sweep	✓ PASSED

32 Ohm High Gain

Level and Gain	✓ PASSED
DC Level	✓ PASSED
Signal Analyzer	✓ PASSED
Frequency Response	✓ PASSED
Signal to Noise Ratio	✓ PASSED
THD+N	✓ PASSED
IMD Level Sweep (CCIF)	✓ PASSED
IMD Frequency Sweep (CCIF)	✓ PASSED
Crosstalk, One Channel Undriven	✓ PASSED
Stepped Level Sweep	✓ PASSED

Preamp

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 Gain : 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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal

Timebase Reference: Internal
Jitter: Disabled
• Triggers
Source: Off
Input Logic Level: 3.300 V
Edge: Rising

300 Ohm Low Gain : Level and Gain

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

RMS Level (11/6/2019 10:34:37.560 AM)

Ch1 0.914 Vrms
Ch2 0.914 Vrms

300 Ohm Low Gain : 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

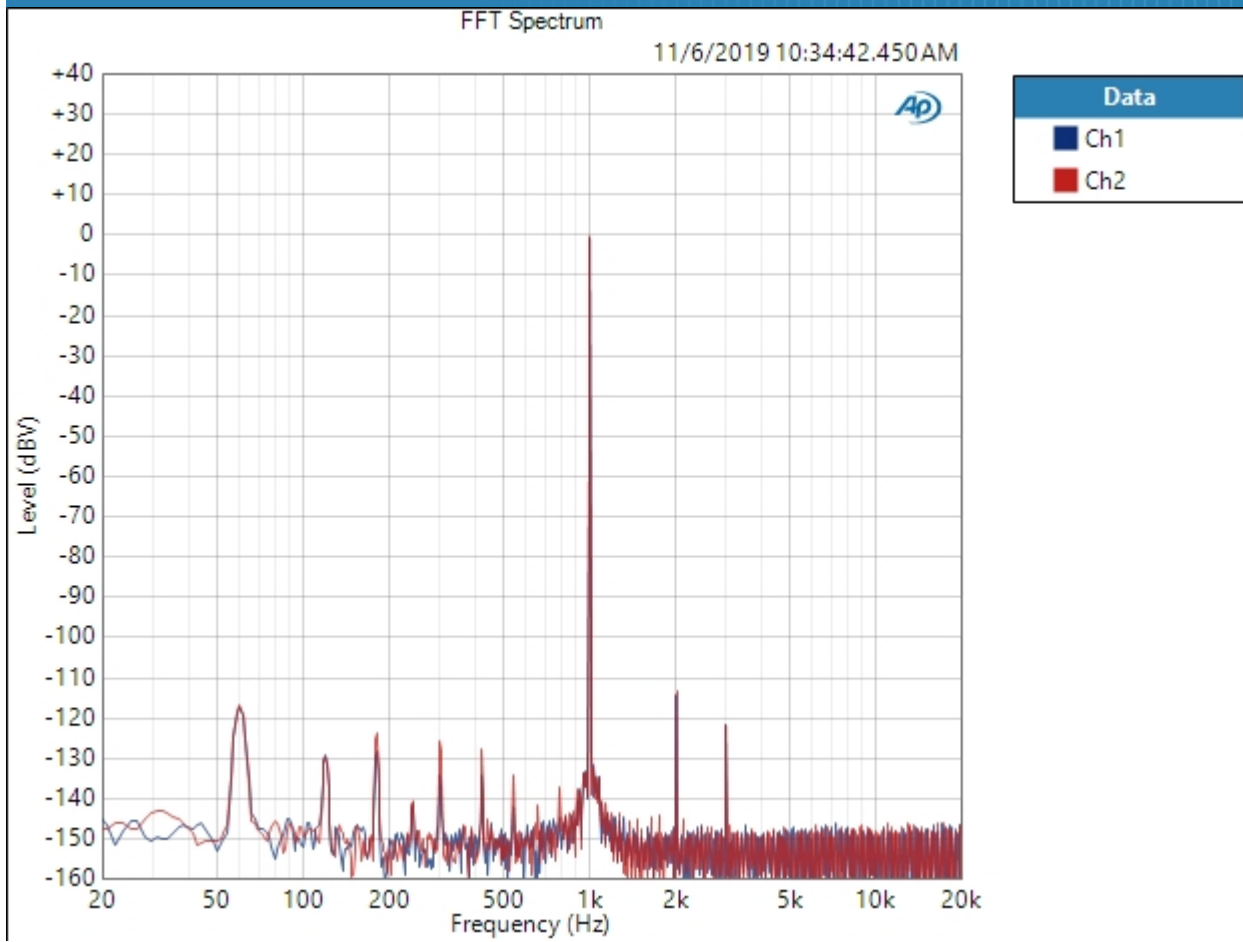
DC Level (11/6/2019 10:34:38.720 AM)

Ch1 231.6 uV
Ch2 579.1 uV

300 Ohm Low Gain : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Generator Level: 1.000 Vrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 11/6/2019 10:34:42 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32K
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (11/6/2019 10:34:42.450 AM)

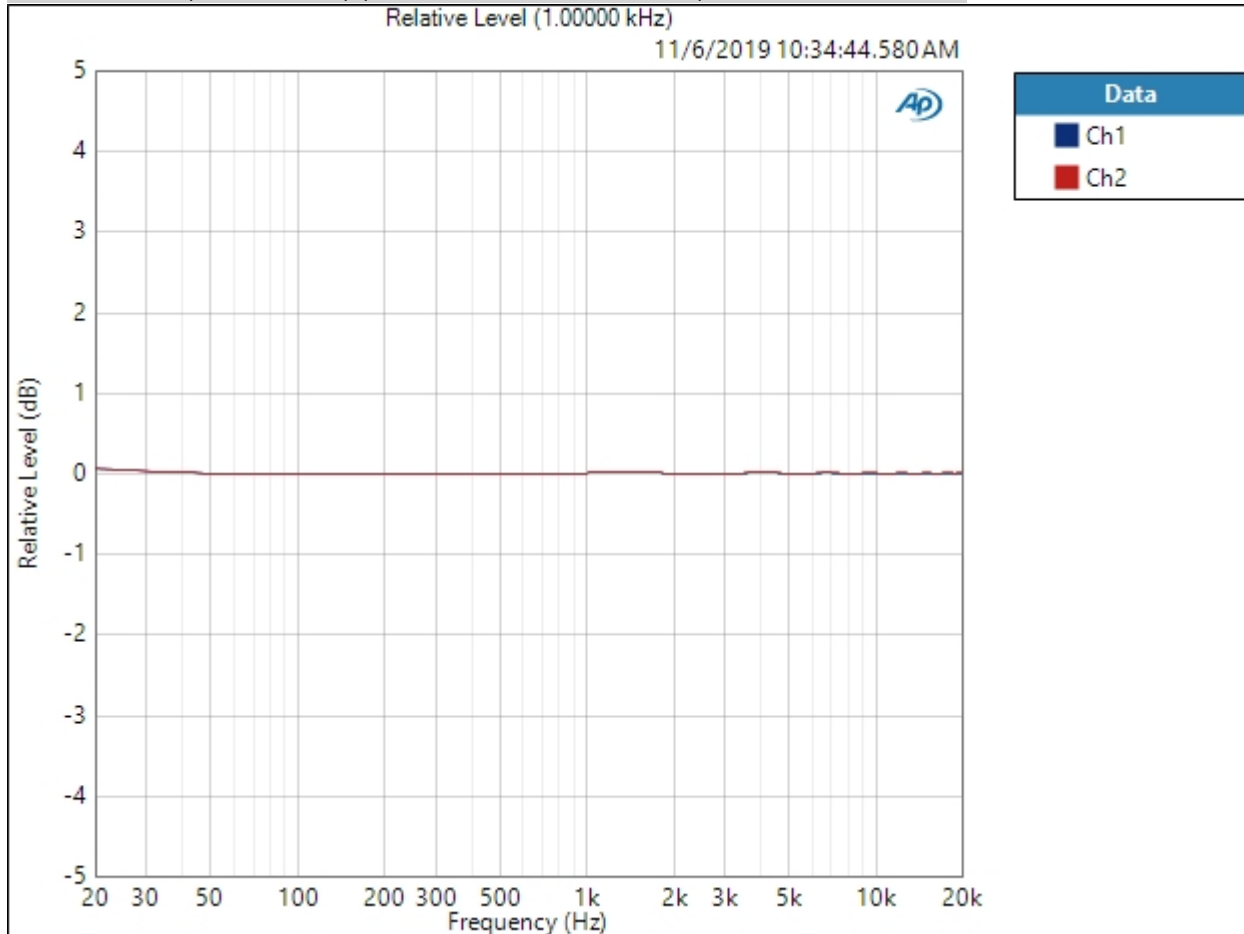


Result:  PASSED

300 Ohm Low Gain : 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: 50.00 ms
 Secondary Source: None
 Measured 1 11/6/2019 10:34:44 AM

Relative Level (1.00000 kHz) (11/6/2019 10:34:44.580 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference
 Ref Frequency: 1.00000 kHz
 11/6/2019 10:39 AM

Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (11/6/2019 10:34:44.580 AM)

Ch1 ± 0.038 dB

Ch2 ± 0.038 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm Low Gain : 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 (11/6/2019 10:34:46.580 AM)

Ch1 117.281 dB

Ch2 116.980 dB

300 Ohm Low Gain : 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 (11/6/2019 10:34:48.670 AM)

Ch1 -109.274 dB
 Ch2 -108.424 dB

THD Ratio (11/6/2019 10:34:48.670 AM)

Ch1 0.000240 %
 Ch2 0.000272 %

Noise Ratio (11/6/2019 10:34:48.670 AM)

Ch1 0.000246 %
 Ch2 0.000268 %

Distortion Product Ratio (11/6/2019 10:34:48.670 AM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch1	-0.00	-113.11	-120.85	-145.21	-143.87	-144.97	-146.61	-139.38	-144.36	-143.33
Ch2	-0.00	-111.79	-121.44	-145.44	-146.08	-145.12	-144.09	-143.89	-140.63	-143.72

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

300 Ohm Low Gain : 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

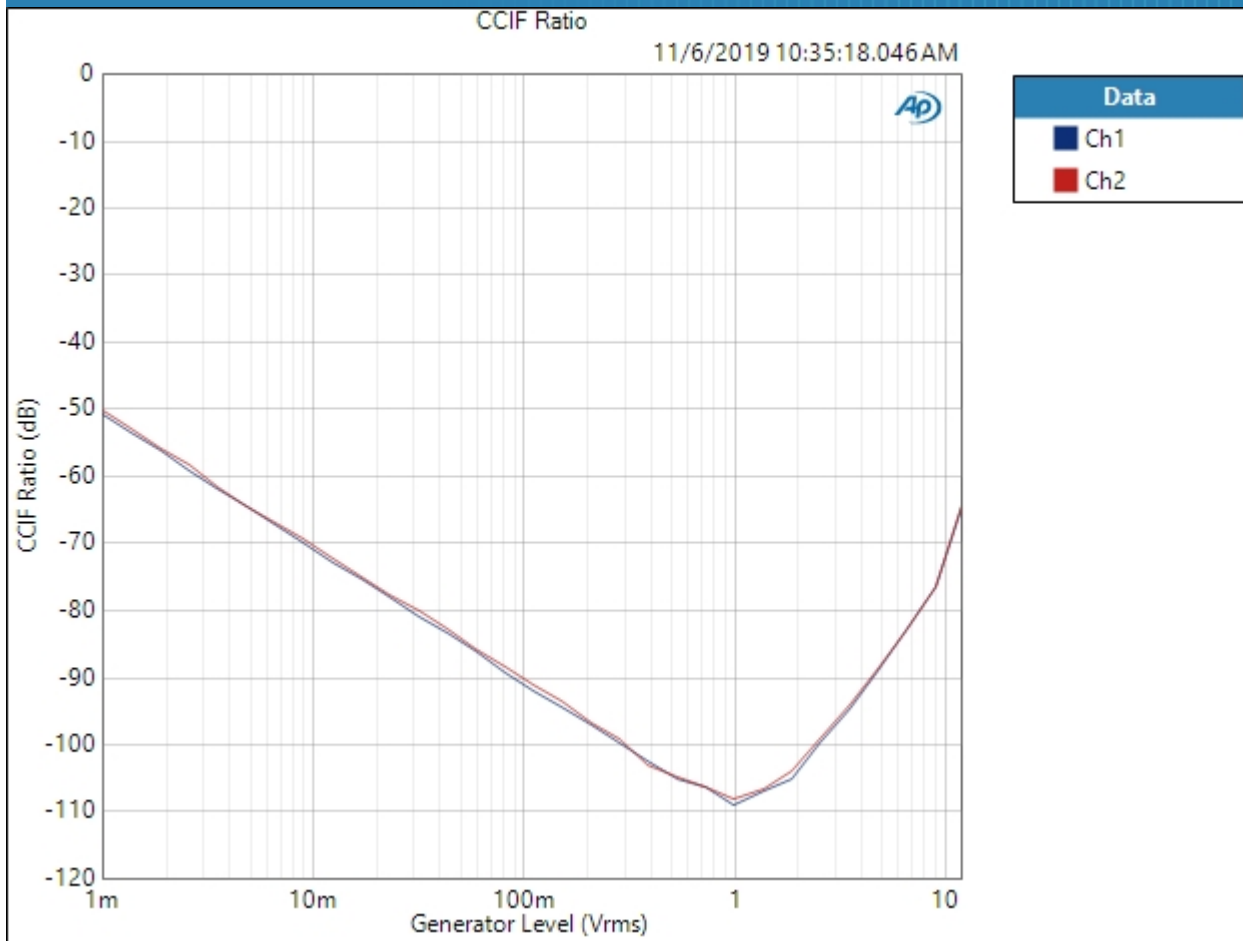
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 11/6/2019 10:35:18 AM

CCIF Ratio (11/6/2019 10:35:18.046 AM)

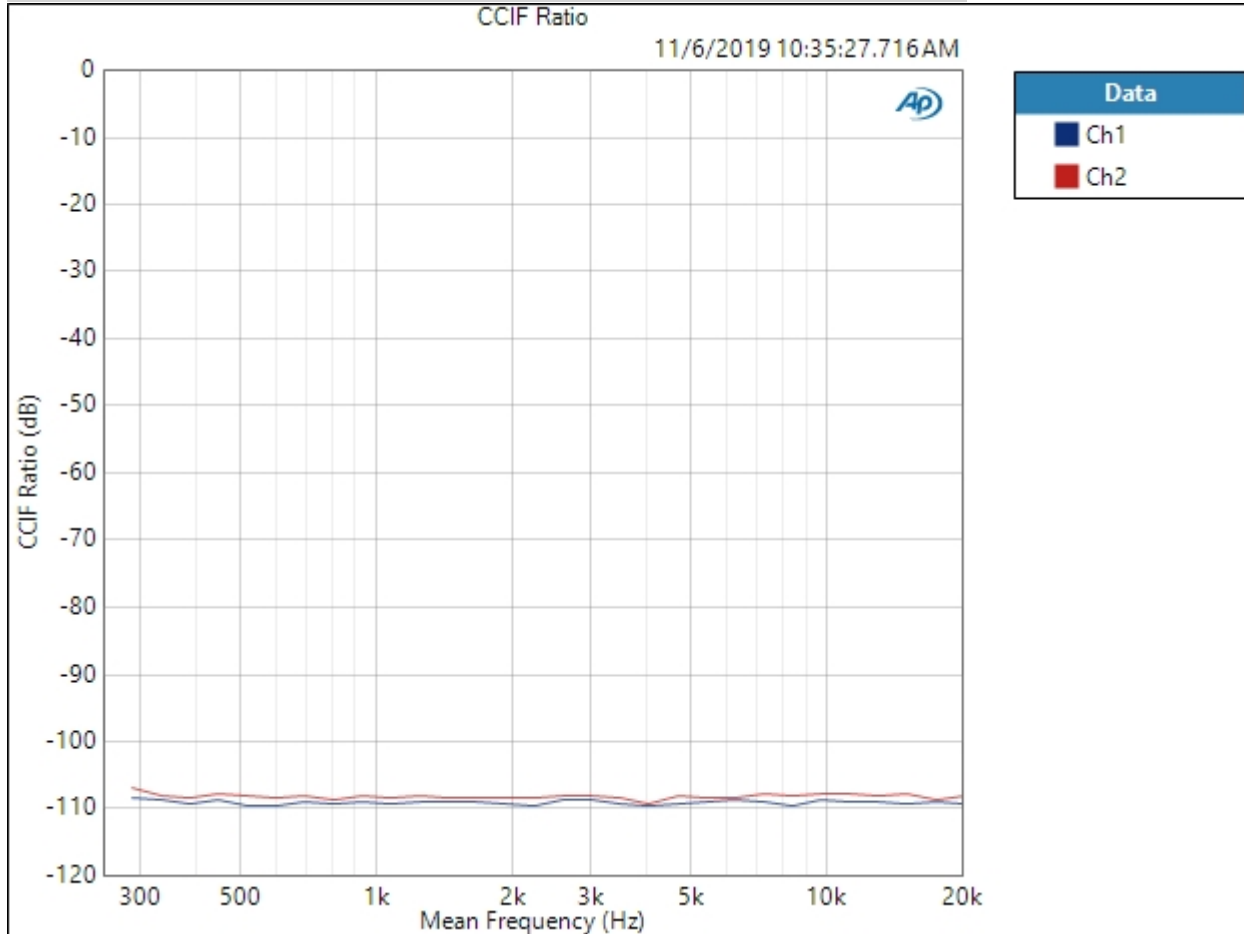


Result: PASSED

300 Ohm Low Gain : 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 11/6/2019 10:35:27 AM

CCIF Ratio (11/6/2019 10:35:27.716 AM)



Result:  PASSED

300 Ohm Low Gain : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Generator Level: 1.000 Vrms

Frequency: 10.0000 kHz

Crosstalk (11/6/2019 10:35:29.036 AM)

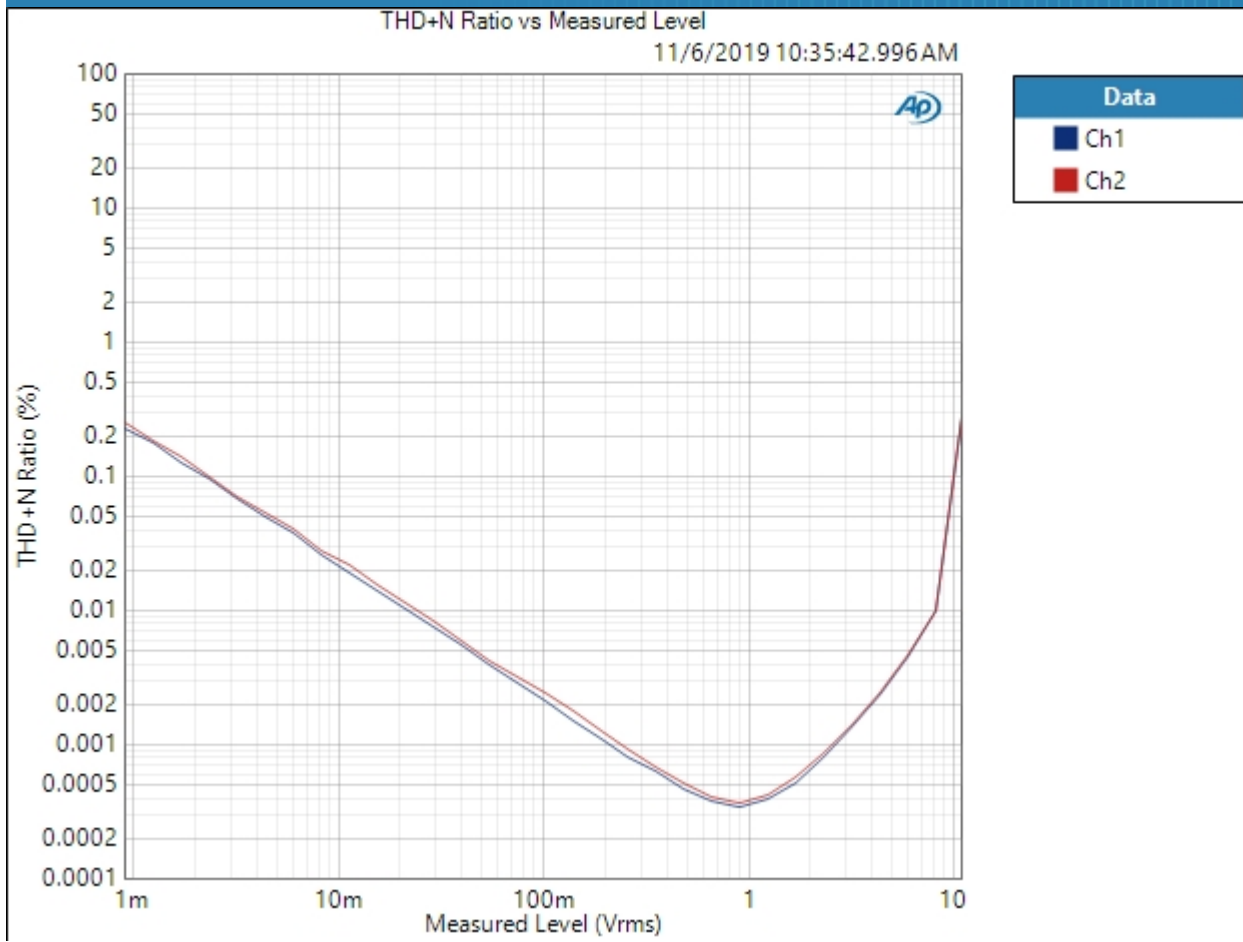
Ch1 -81.753 dB

Ch2 -82.516 dB

300 Ohm Low Gain : 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 11/6/2019 10:35:42 AM

THD+N Ratio vs Measured Level (11/6/2019 10:35:42.996 AM)



Result: ✔ PASSED

300 Ohm High Gain : 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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal

Jitter: Disabled
• Triggers
Source: Off
Input Logic Level: 3.300 V
Edge: Rising

300 Ohm High Gain : Level and Gain

Waveform: Sine
Generator Mode: High Performance Sine Generator
Generator Level: 175.0 mVrms
Frequency: 1.00000 kHz

RMS Level (11/6/2019 10:28:23.253 AM)

Ch1 1.010 Vrms
Ch2 1.011 Vrms

300 Ohm High Gain : 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

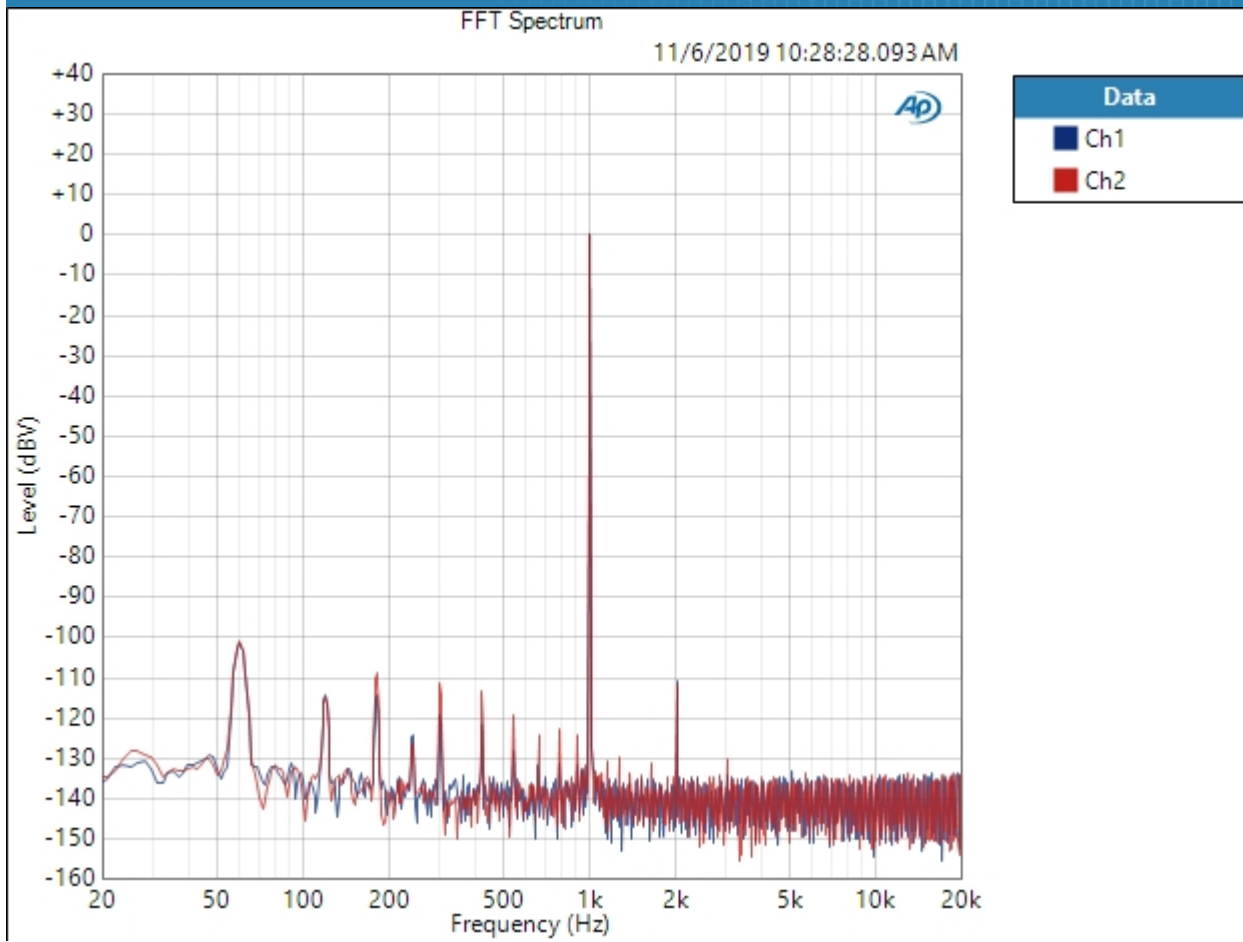
DC Level (11/6/2019 10:28:24.393 AM)

Ch1 -43.33 uV
Ch2 211.3 uV

300 Ohm High Gain : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Generator Level: 175.0 mVrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1: 11/6/2019 10:28:28 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32K
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (11/6/2019 10:28:28.093 AM)

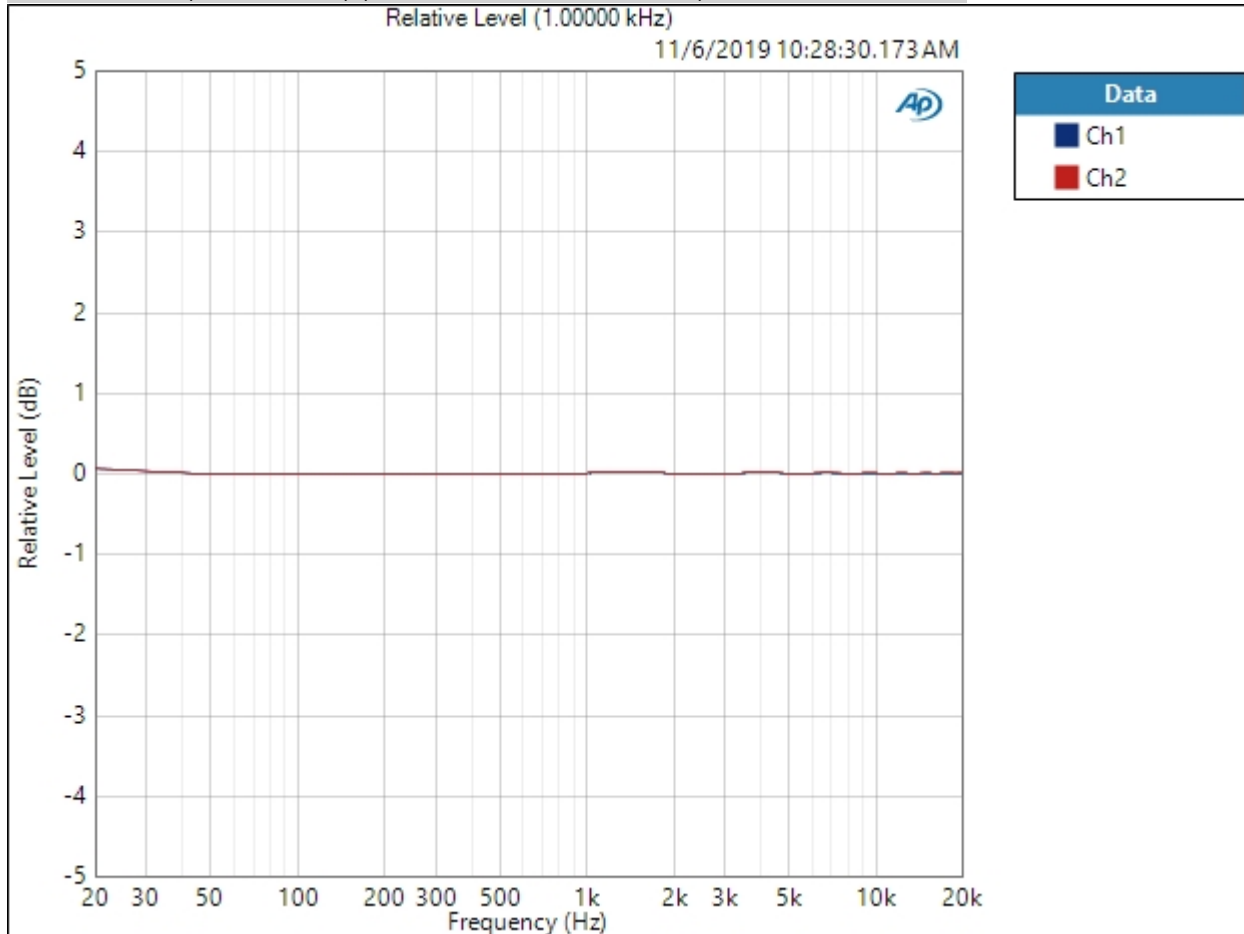


Result:  PASSED

300 Ohm High Gain : Frequency Response

Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: 175.0 mVrms
 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 11/6/2019 10:28:30 AM

Relative Level (1.00000 kHz) (11/6/2019 10:28:30.173 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference
 Ref Frequency: 1.00000 kHz
 11/6/2019 10:39 AM

Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (11/6/2019 10:28:30.173 AM)

Ch1 ± 0.038 dB

Ch2 ± 0.038 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

300 Ohm High Gain : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Generator Level: 175.0 mVrms

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: A-wt.

High-pass Filter: 20 Hz

Signal to Noise Ratio (11/6/2019 10:28:32.133 AM)

Ch1 104.739 dB

Ch2 104.165 dB

300 Ohm High Gain : THD+N

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Generator Level: 175.0 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 (11/6/2019 10:28:34.203 AM)

Ch1 -98.583 dB
 Ch2 -97.914 dB

THD Ratio (11/6/2019 10:28:34.203 AM)

Ch1 0.000302 %
 Ch2 0.000282 %

Noise Ratio (11/6/2019 10:28:34.203 AM)

Ch1 0.001141 %
 Ch2 0.001235 %

Distortion Product Ratio (11/6/2019 10:28:34.203 AM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch1	-0.00	-110.95	-128.81	-134.40	-137.73	-136.97	-134.89	-131.88	-132.82	-130.93
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch2	-0.00	-111.91	-128.72	-127.45	-130.15	-135.38	-129.38	-132.64	-130.13	-136.27

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

300 Ohm High Gain : 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

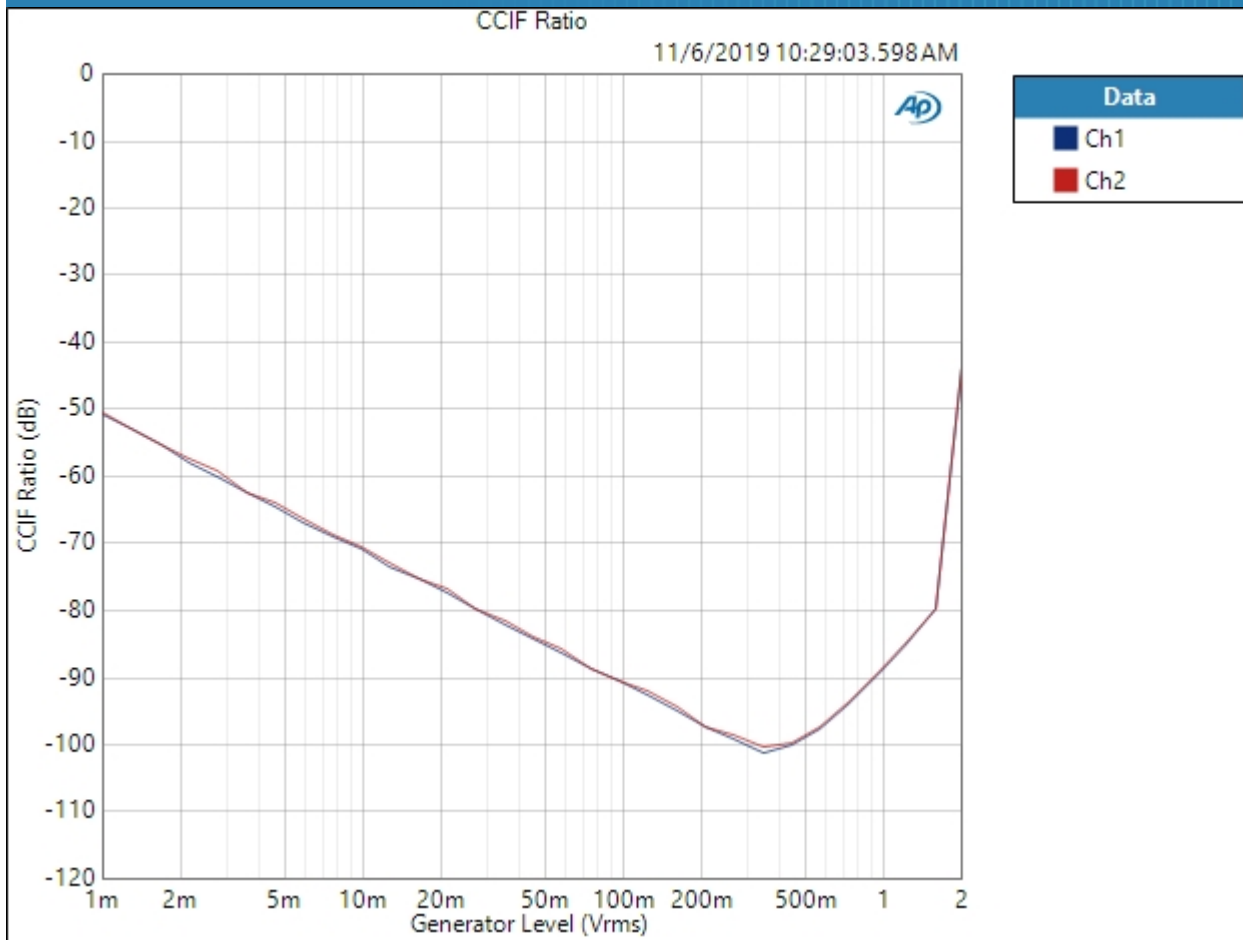
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 11/6/2019 10:29:03 AM

CCIF Ratio (11/6/2019 10:29:03.598 AM)

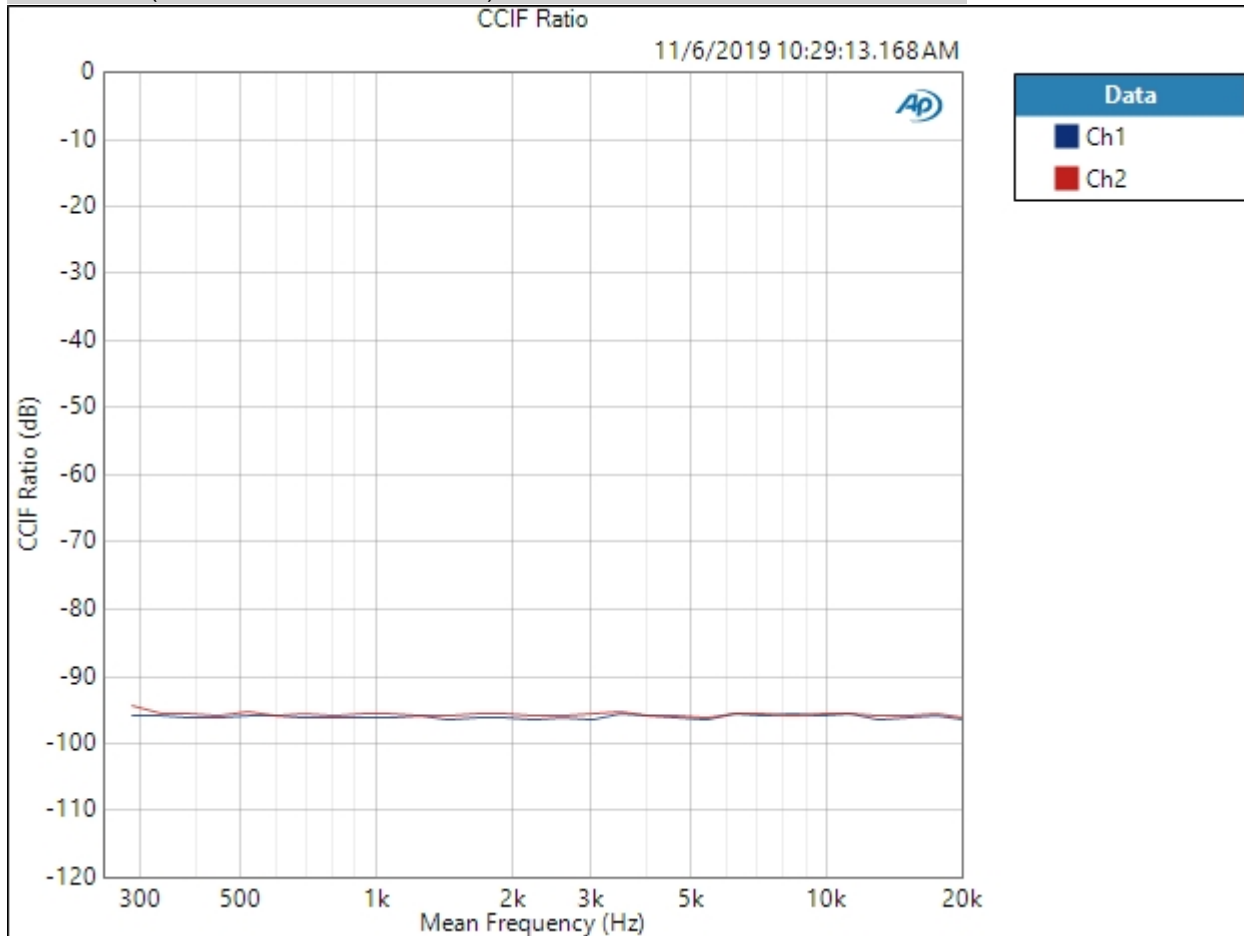


Result: PASSED

300 Ohm High Gain : IMD Frequency Sweep (CCIF)

Generator Level: 175.0 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 11/6/2019 10:29:13 AM

CCIF Ratio (11/6/2019 10:29:13.168 AM)



Result:  PASSED

300 Ohm High Gain : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Generator Level: 175.0 mVrms

Frequency: 10.0000 kHz

Crosstalk (11/6/2019 10:29:14.478 AM)

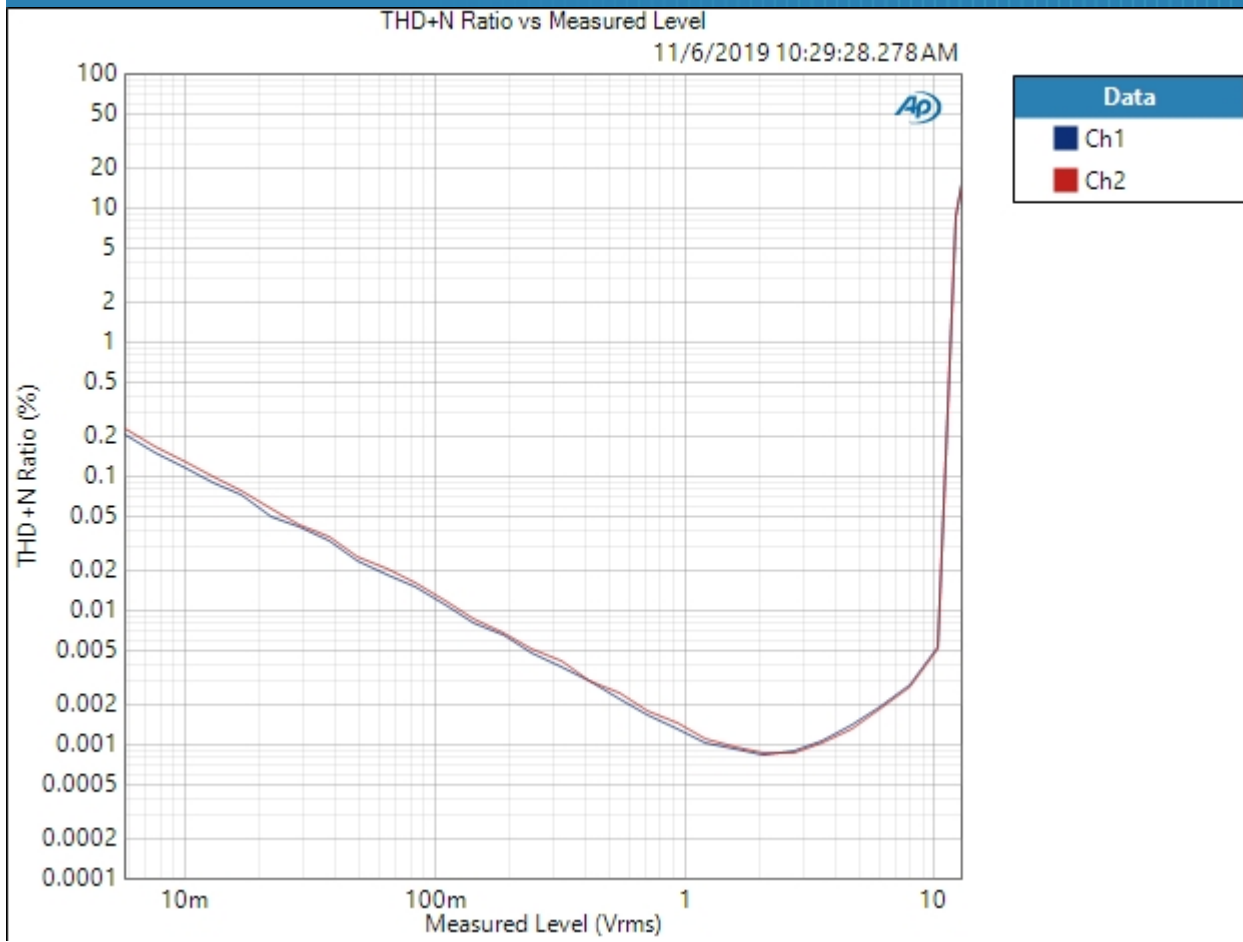
Ch1 -80.684 dB

Ch2 -81.197 dB

300 Ohm High Gain : 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 11/6/2019 10:29:28 AM

THD+N Ratio vs Measured Level (11/6/2019 10:29:28.278 AM)



Result: ✔ PASSED

32 Ohm Low Gain : 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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal

Jitter: Disabled
• Triggers
Source: Off
Input Logic Level: 3.300 V
Edge: Rising

32 Ohm Low Gain : Level and Gain

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

RMS Level (11/6/2019 10:36:18.680 AM)

Ch1 0.908 Vrms
Ch2 0.909 Vrms

32 Ohm Low Gain : 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

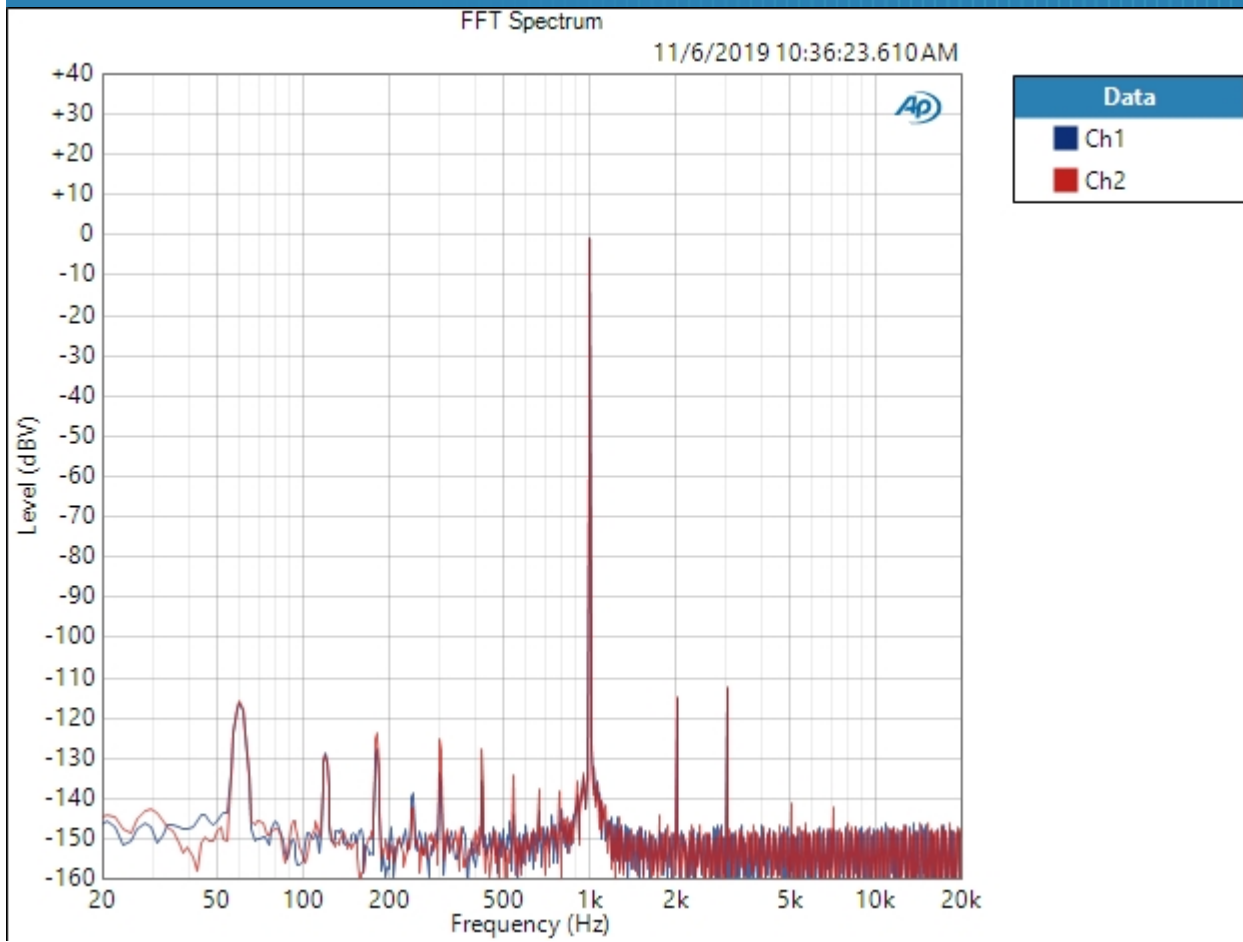
DC Level (11/6/2019 10:36:19.850 AM)

Ch1 -80.85 uV
Ch2 408.7 uV

32 Ohm Low Gain : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Generator Level: 1.000 Vrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 11/6/2019 10:36:23 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32K
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (11/6/2019 10:36:23.610 AM)

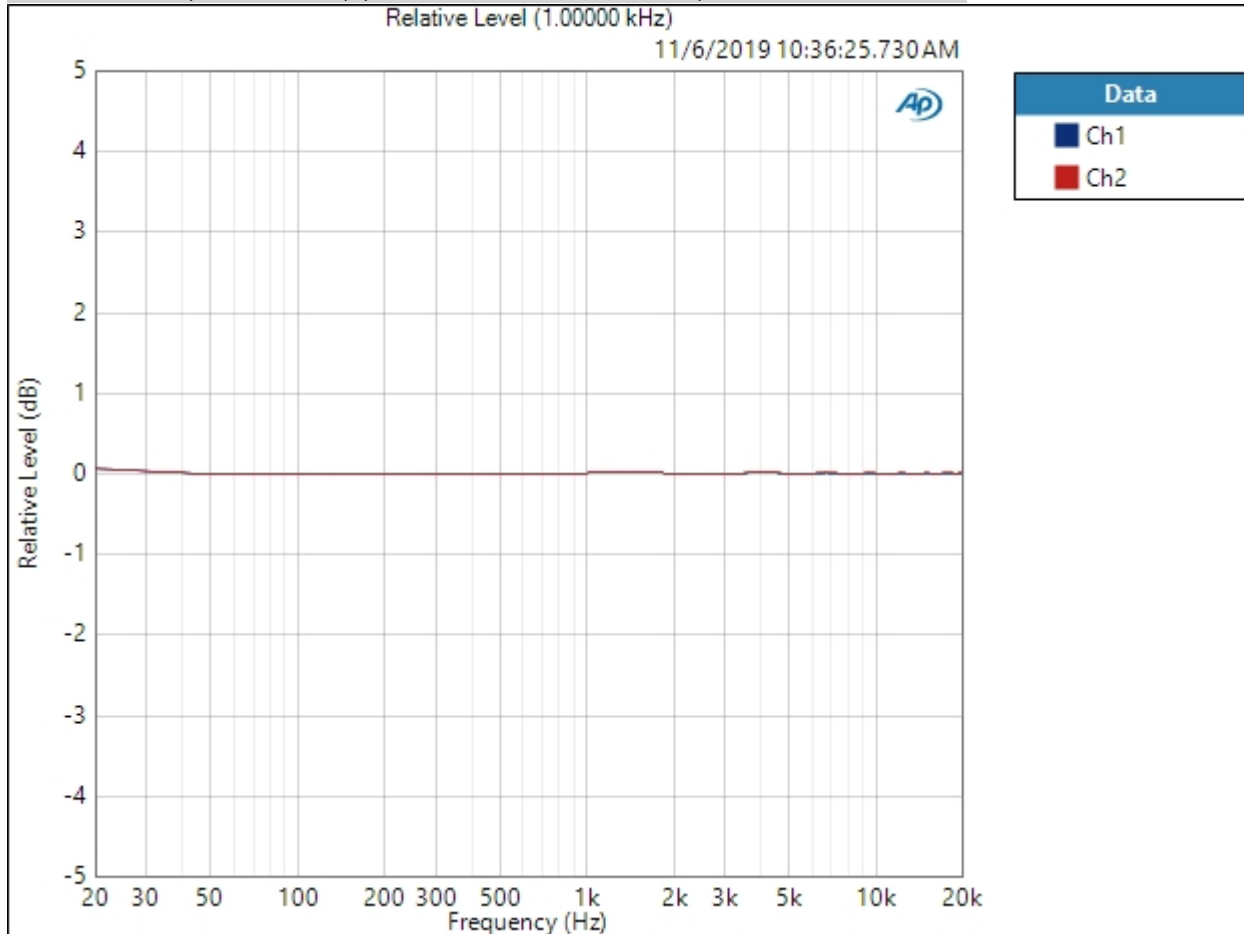


Result: PASSED

32 Ohm Low Gain : 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: 50.00 ms
 Secondary Source: None
 Measured 1 11/6/2019 10:36:25 AM

Relative Level (1.00000 kHz) (11/6/2019 10:36:25.730 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference
 Ref Frequency: 1.00000 kHz
 11/6/2019 10:39 AM

Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (11/6/2019 10:36:25.730 AM)

Ch1 ± 0.038 dB

Ch2 ± 0.038 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm Low Gain : 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 (11/6/2019 10:36:27.750 AM)

Ch1 117.184 dB

Ch2 116.739 dB

32 Ohm Low Gain : 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 (11/6/2019 10:36:30.097 AM)

Ch1 -107.704 dB
 Ch2 -107.121 dB

THD Ratio (11/6/2019 10:36:30.097 AM)

Ch1 0.000319 %
 Ch2 0.000338 %

Noise Ratio (11/6/2019 10:36:30.097 AM)

Ch1 0.000261 %
 Ch2 0.000282 %

Distortion Product Ratio (11/6/2019 10:36:30.097 AM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch1	-0.00	-114.09	-112.09	-144.68	-146.99	-140.50	-144.68	-143.44	-143.80	-141.24
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch2	-0.00	-113.63	-111.56	-149.69	-138.52	-142.60	-140.40	-146.22	-142.10	-143.44

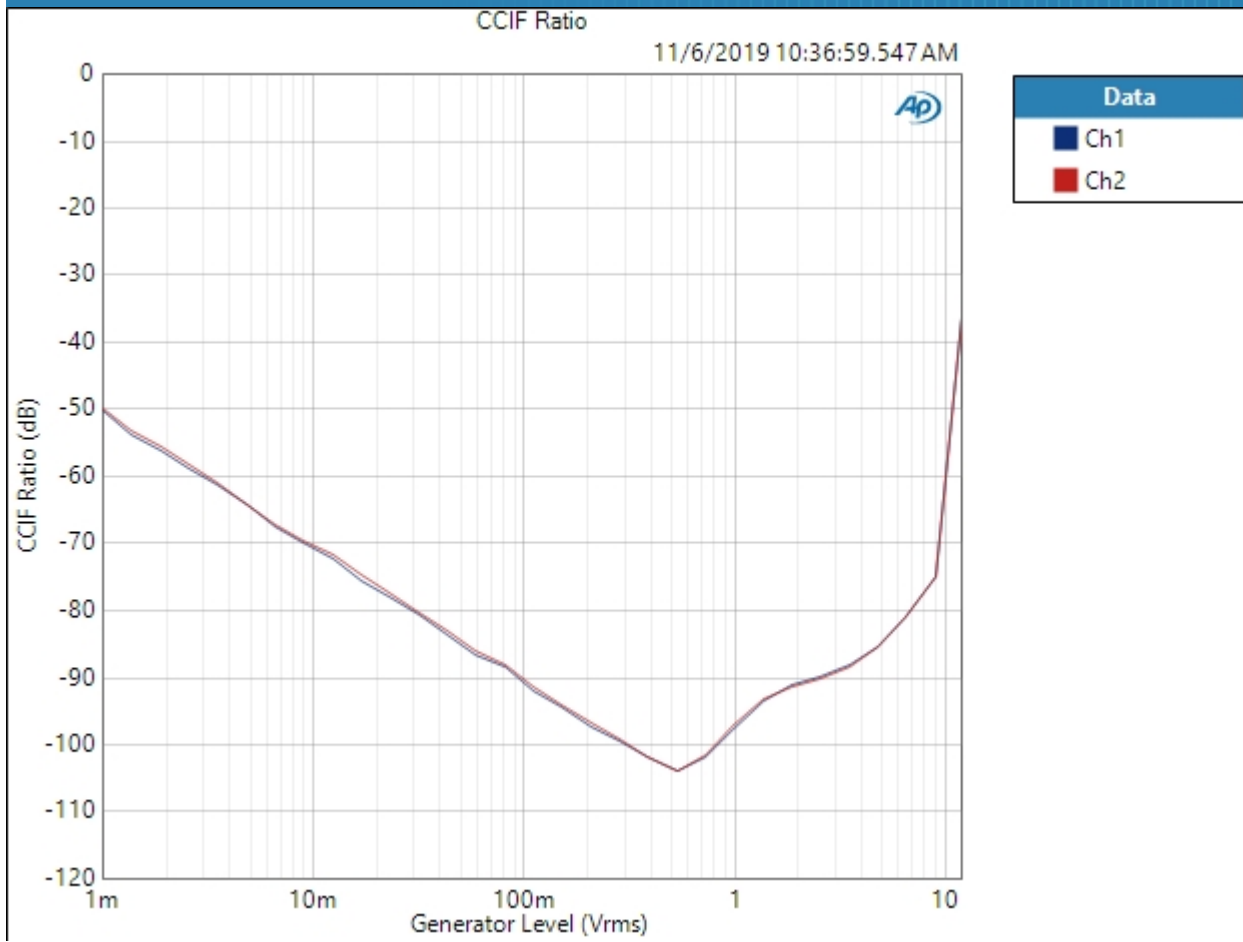
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

32 Ohm Low Gain : 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 11/6/2019 10:36:59 AM

CCIF Ratio (11/6/2019 10:36:59.547 AM)

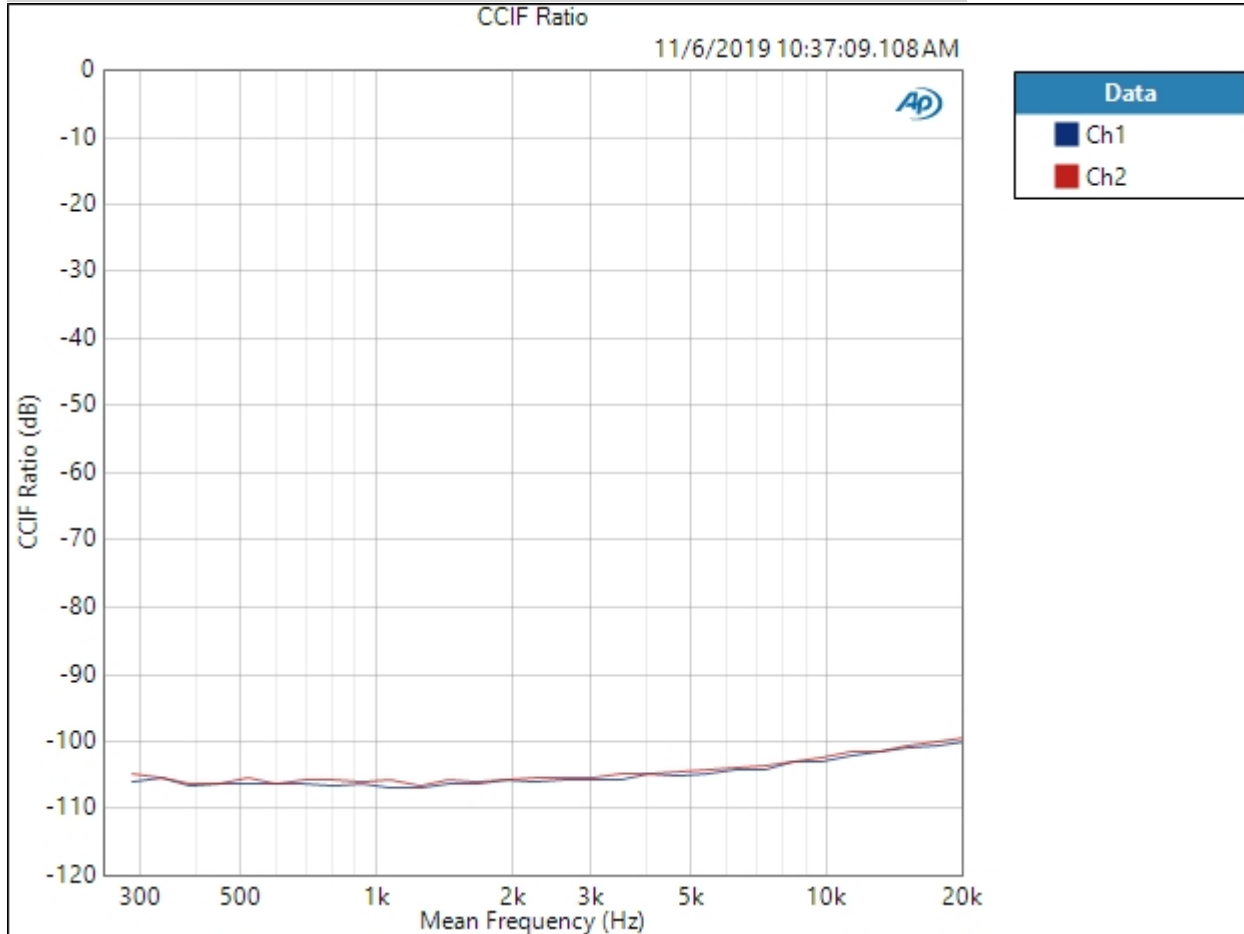


Result: PASSED

32 Ohm Low Gain : 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 11/6/2019 10:37:09 AM

CCIF Ratio (11/6/2019 10:37:09.108 AM)



Result:  PASSED

32 Ohm Low Gain : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Generator Level: 1.000 Vrms

Frequency: 10.0000 kHz

Crosstalk (11/6/2019 10:37:10.358 AM)

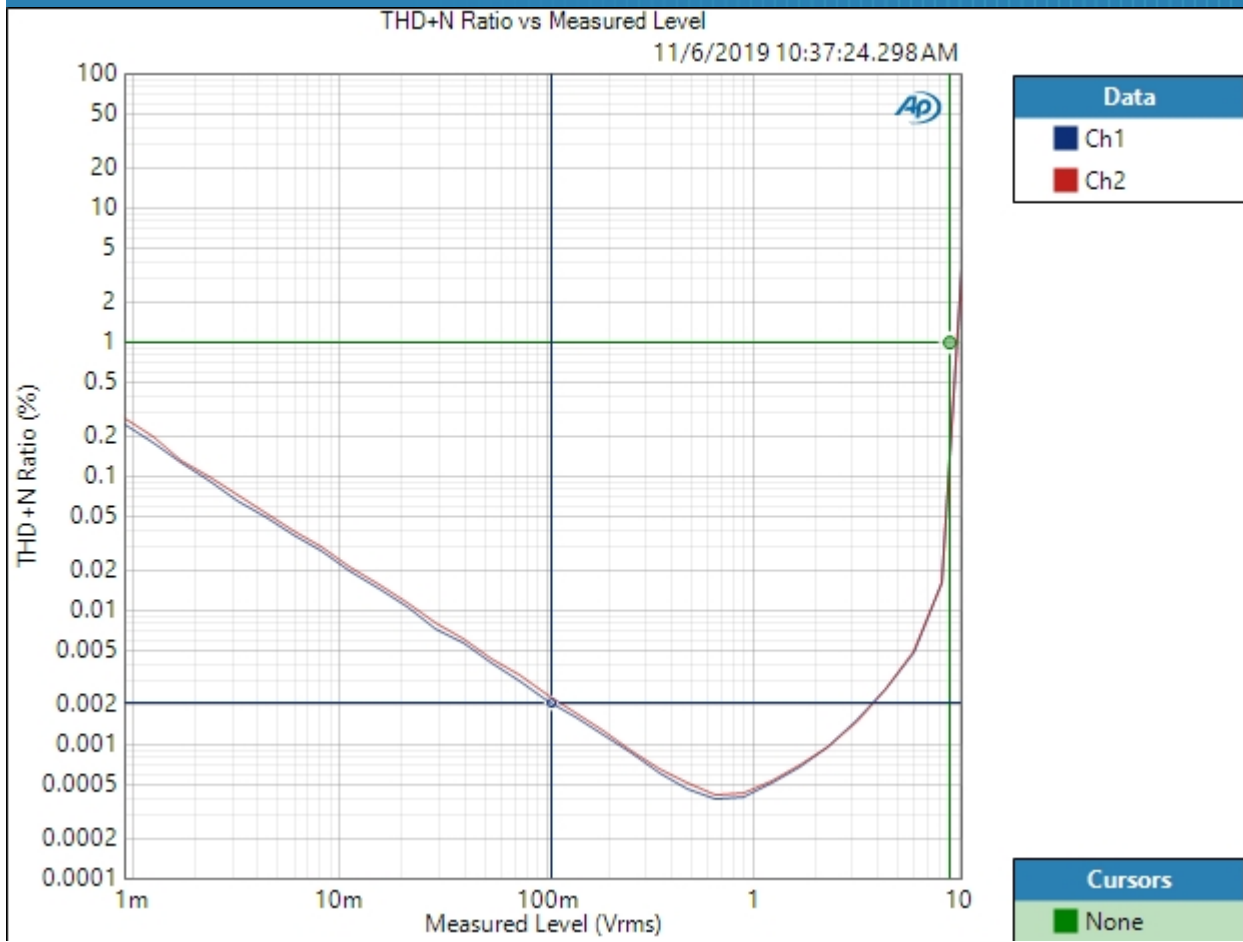
Ch1 -74.617 dB

Ch2 -75.537 dB

32 Ohm Low Gain : 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 11/6/2019 10:37:24 AM

THD+N Ratio vs Measured Level (11/6/2019 10:37:24.298 AM)



Result: PASSED

32 Ohm High Gain : 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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal

Jitter: Disabled
• Triggers
Source: Off
Input Logic Level: 3.300 V
Edge: Rising

32 Ohm High Gain : Level and Gain

Waveform: Sine
Generator Mode: High Performance Sine Generator
Generator Level: 175.0 mVrms
Frequency: 1.00000 kHz

RMS Level (11/6/2019 10:30:16.957 AM)

Ch1 1.004 Vrms
Ch2 1.006 Vrms

32 Ohm High Gain : 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

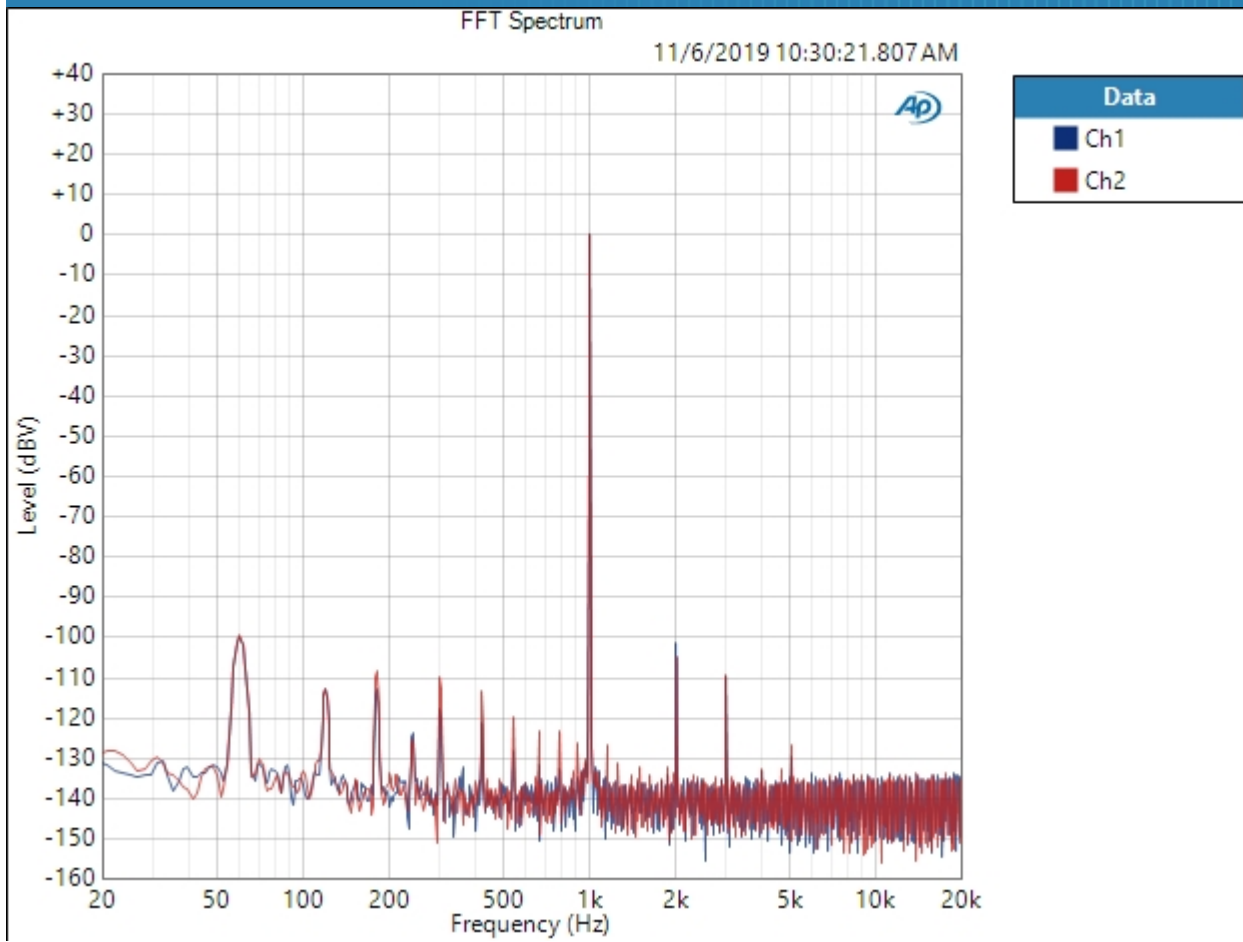
DC Level (11/6/2019 10:30:18.087 AM)

Ch1 -43.51 uV
Ch2 293.4 uV

32 Ohm High Gain : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Generator Level: 175.0 mVrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1: 11/6/2019 10:30:21 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32K
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (11/6/2019 10:30:21.807 AM)

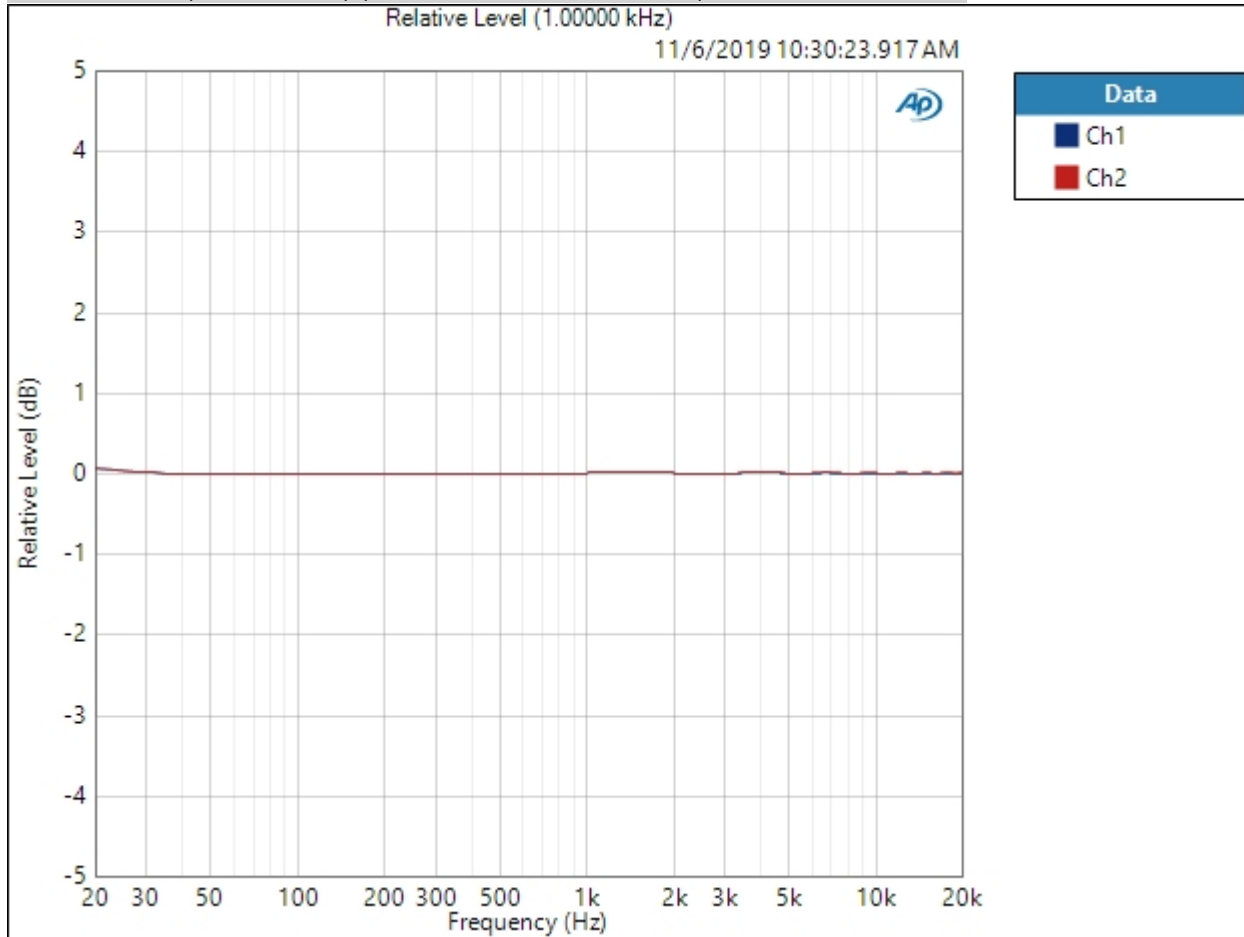


Result:  PASSED

32 Ohm High Gain : Frequency Response

Start Frequency: 20.0000 Hz
 Stop Frequency: 20.0000 kHz
 Generator Level: 175.0 mVrms
 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 11/6/2019 10:30:23 AM

Relative Level (1.00000 kHz) (11/6/2019 10:30:23.917 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference
 Ref Frequency: 1.00000 kHz
 11/6/2019 10:39 AM

Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (11/6/2019 10:30:23.917 AM)

Ch1 ± 0.035 dB

Ch2 ± 0.035 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz

32 Ohm High Gain : Signal to Noise Ratio

Waveform: Sine

Generator Mode: High Performance Sine Generator

Generator Level: 175.0 mVrms

Frequency: 1.00000 kHz

Low-pass Filter: 20 kHz

Weighting Filter: A-wt.

High-pass Filter: 20 Hz

Signal to Noise Ratio (11/6/2019 10:30:25.903 AM)

Ch1 104.674 dB

Ch2 104.022 dB

32 Ohm High Gain : THD+N

Waveform: Sine
 Generator Mode: High Performance Sine Generator
 Generator Level: 175.0 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 (11/6/2019 10:30:28.223 AM)

Ch1 -96.053 dB
 Ch2 -96.239 dB

THD Ratio (11/6/2019 10:30:28.223 AM)

Ch1 0.000931 %
 Ch2 0.000644 %

Noise Ratio (11/6/2019 10:30:28.223 AM)

Ch1 0.001270 %
 Ch2 0.001404 %

Distortion Product Ratio (11/6/2019 10:30:28.223 AM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch1	-0.00	-101.29	-109.50	-131.65	-130.08	-132.78	-128.89	-131.41	-131.96	-130.90
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch2	-0.00	-105.39	-109.62	-136.94	-124.32	-134.03	-129.10	-129.69	-130.60	-126.97

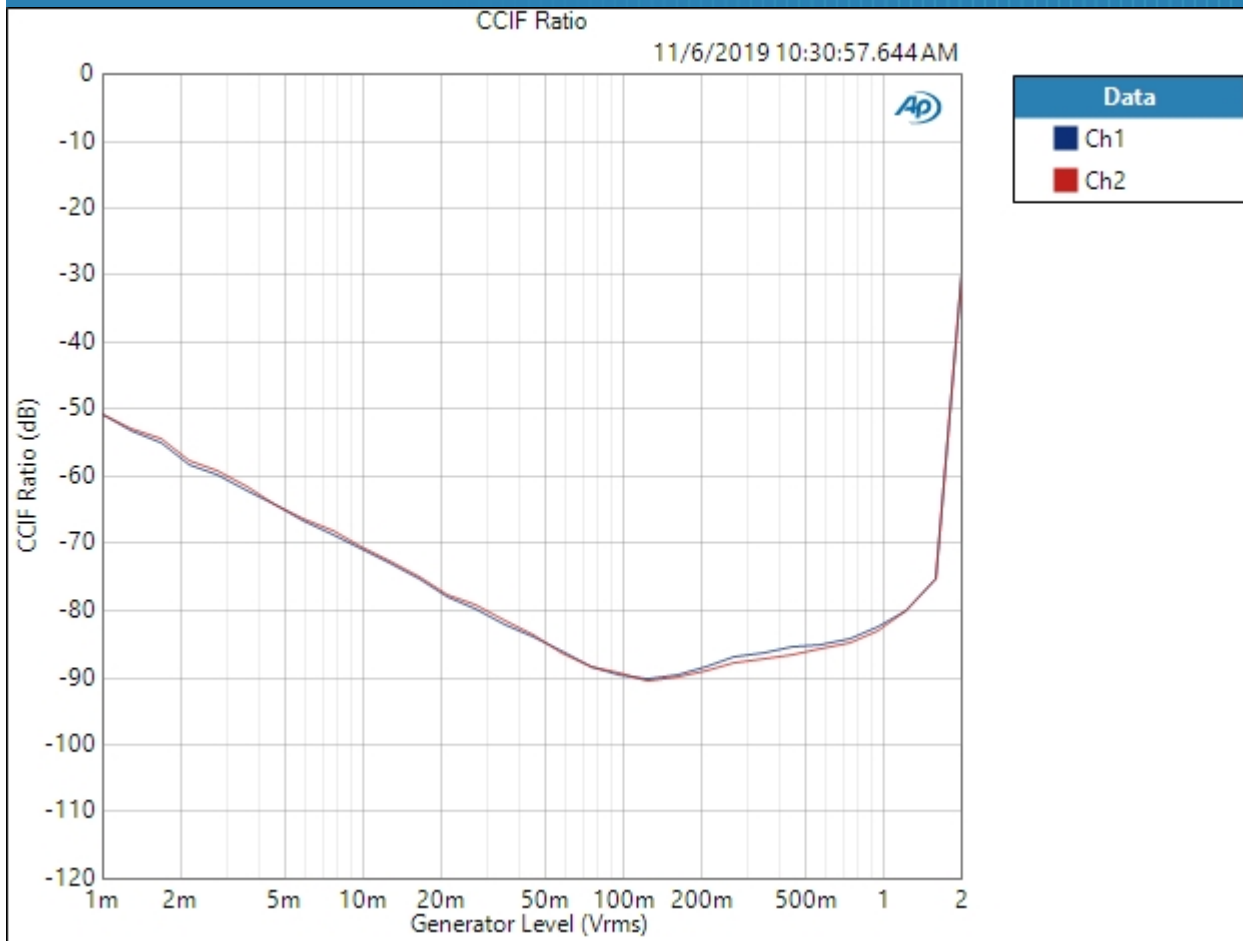
Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

32 Ohm High Gain : 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 11/6/2019 10:30:57 AM

CCIF Ratio (11/6/2019 10:30:57.644 AM)



Result: PASSED

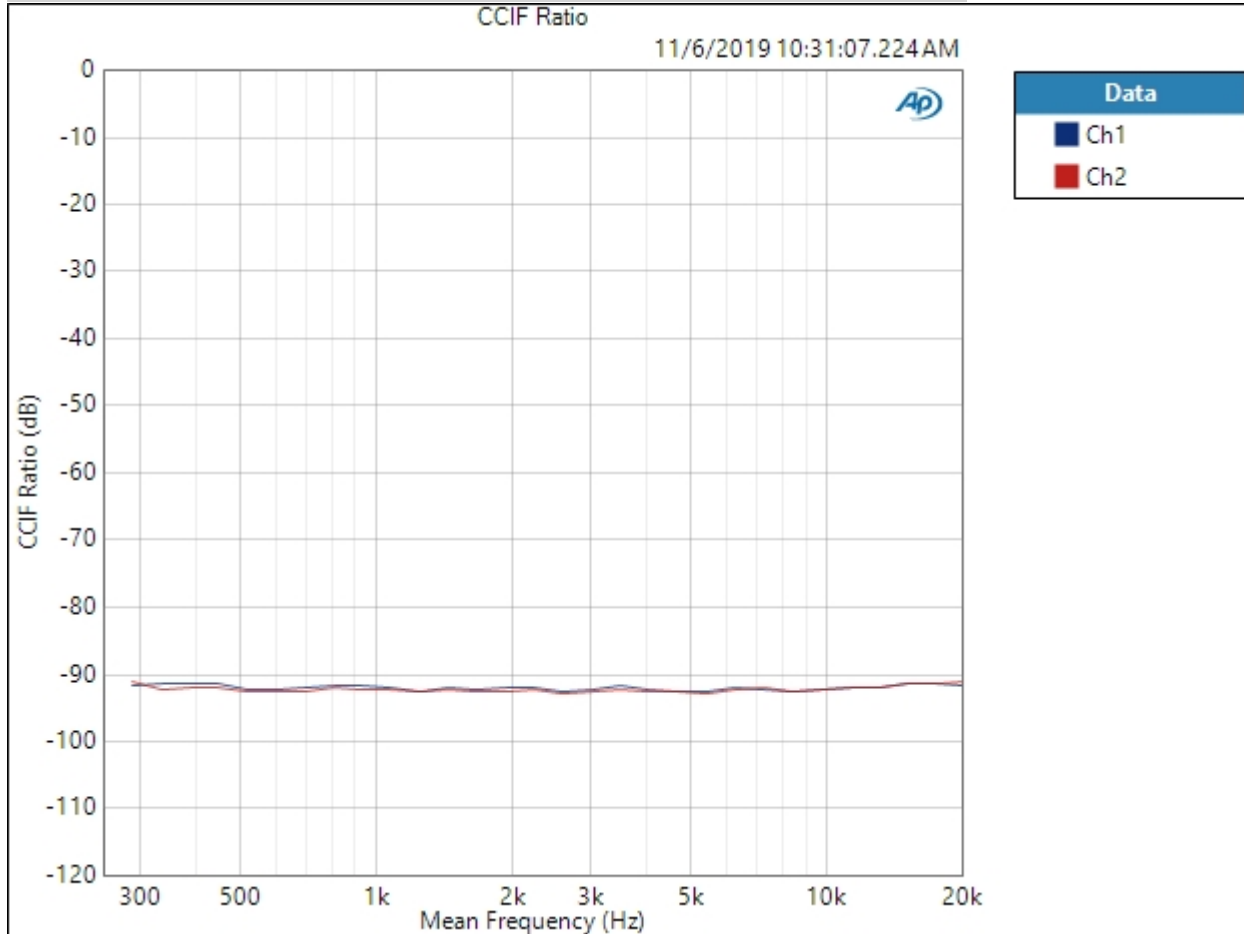
Schiit Amp APx555 Standard Test Suite: Magni 3+



32 Ohm High Gain : IMD Frequency Sweep (CCIF)

Generator Level: 175.0 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 11/6/2019 10:31:07 AM

CCIF Ratio (11/6/2019 10:31:07.224 AM)



11/6/2019 10:39 AM

Result:  PASSED

32 Ohm High Gain : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Generator Level: 175.0 mVrms

Frequency: 10.0000 kHz

Crosstalk (11/6/2019 10:31:08.494 AM)

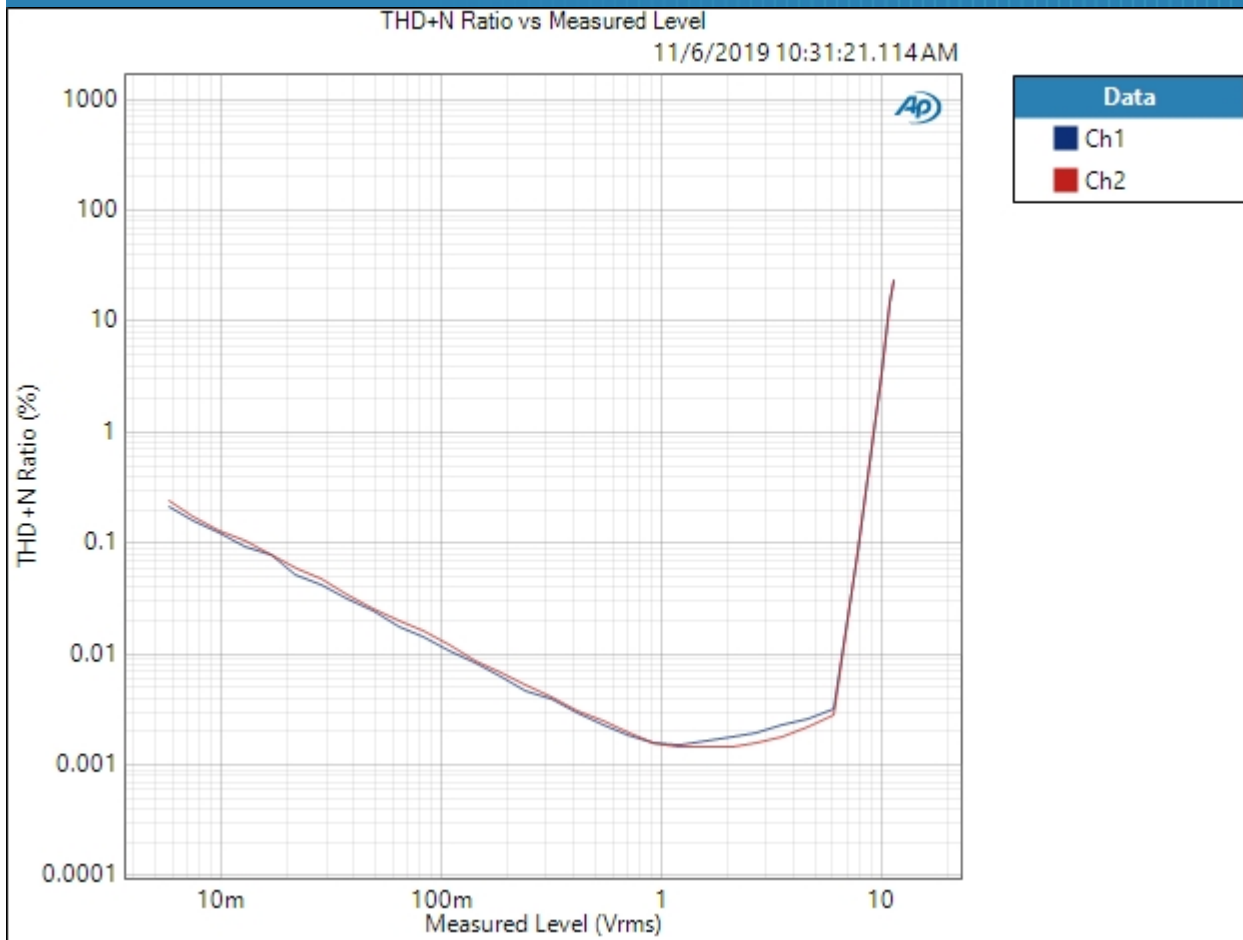
Ch1 -72.582 dB

Ch2 -73.847 dB

32 Ohm High Gain : 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 11/6/2019 10:31:21 AM

THD+N Ratio vs Measured Level (11/6/2019 10:31:21.114 AM)



Result: ✔ PASSED

Preamp : 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
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal

Jitter: Disabled
• Triggers
Source: Off
Input Logic Level: 3.300 V
Edge: Rising

Preamp : Level and Gain

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

RMS Level (11/6/2019 10:38:48.722 AM)

Ch1 0.913 Vrms
Ch2 0.914 Vrms

Preamp : 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

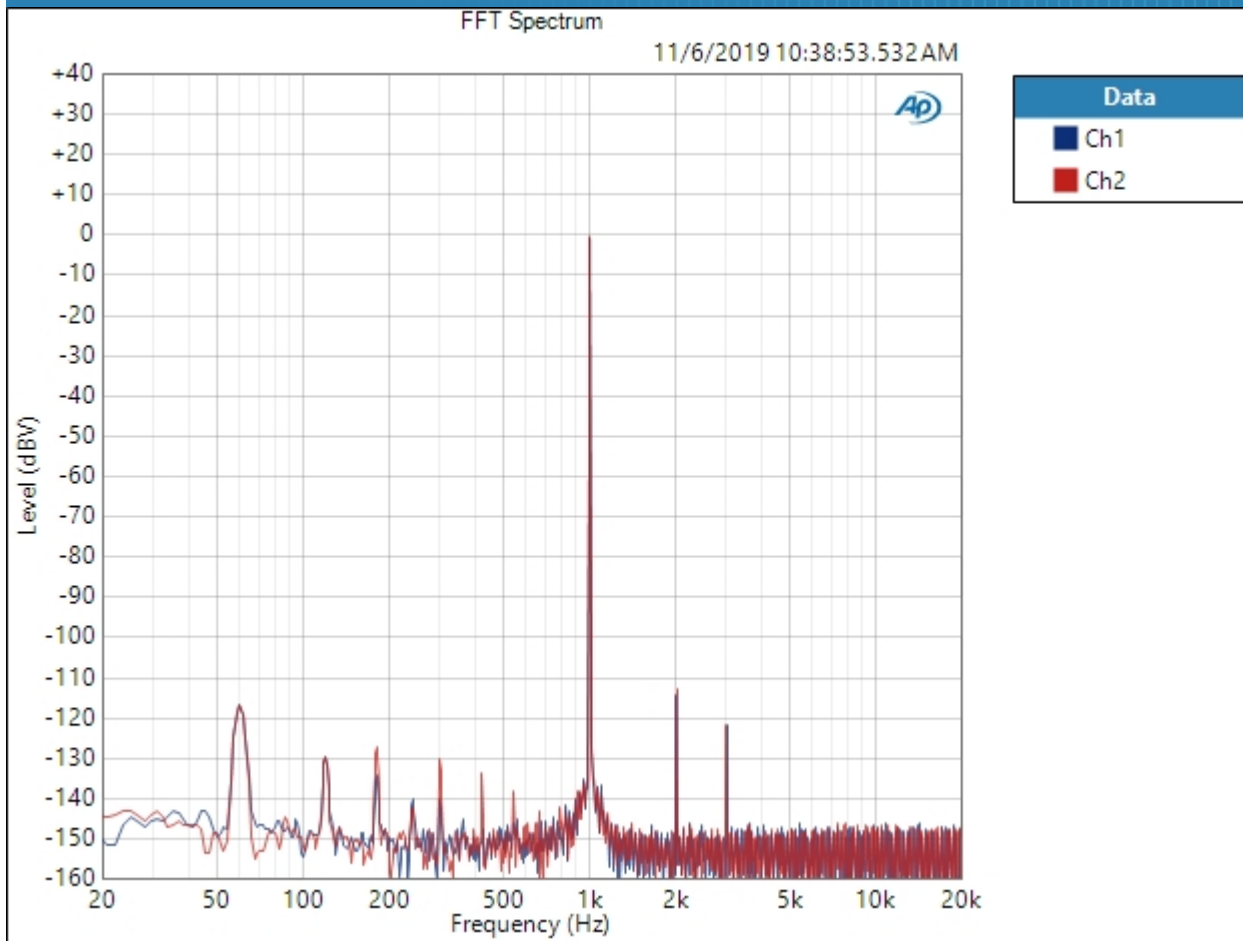
DC Level (11/6/2019 10:38:49.842 AM)

Ch1 -80.88 uV
Ch2 347.6 uV

Preamp : Signal Analyzer

Waveform: Sine
Generator Mode: High Performance Sine Generator
Generator Level: 1.000 Vrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 11/6/2019 10:38:53 AM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 32K
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (11/6/2019 10:38:53.532 AM)

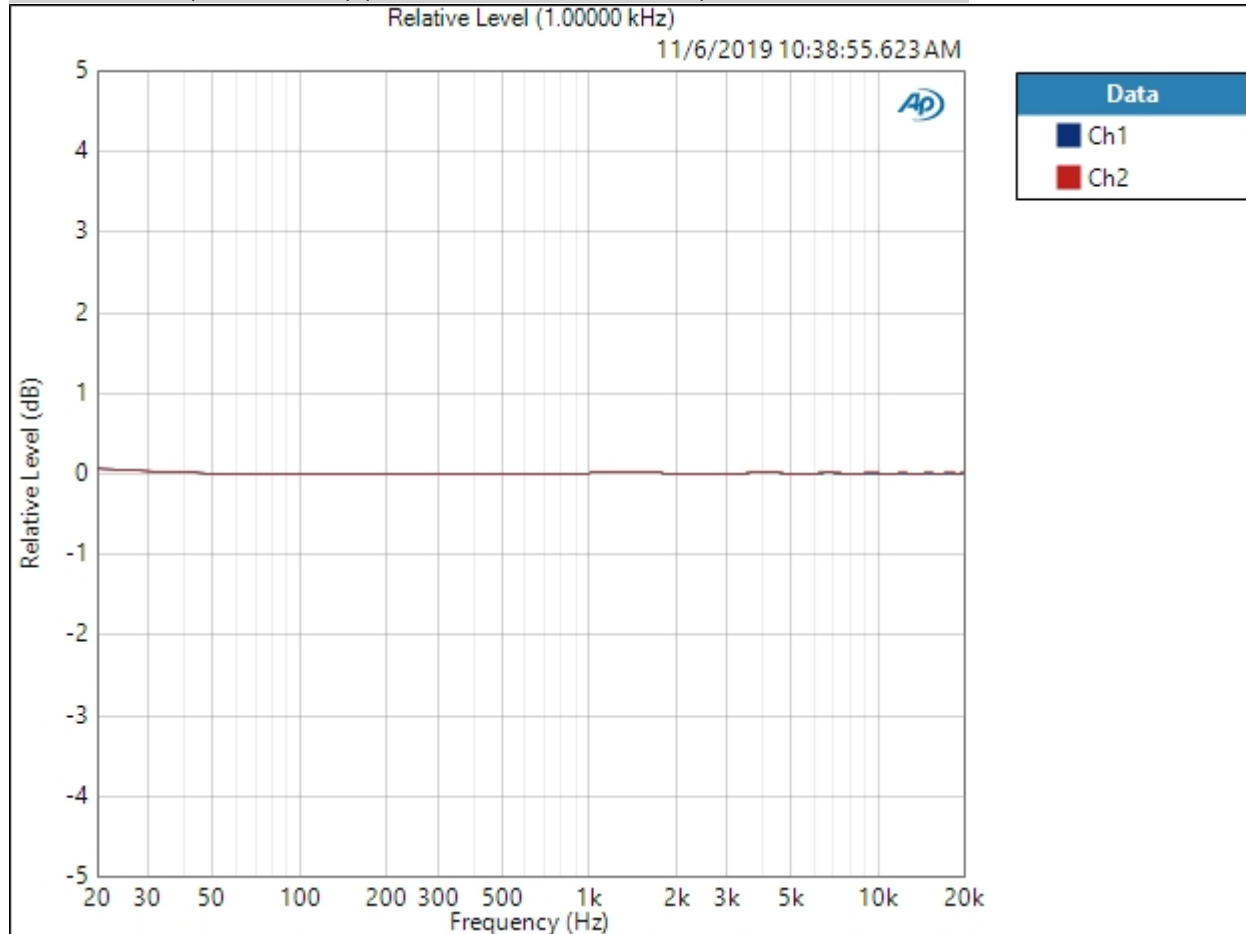


Result:  PASSED

Preamp : 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: 50.00 ms
 Secondary Source: None
 Measured 1 11/6/2019 10:38:55 AM

Relative Level (1.00000 kHz) (11/6/2019 10:38:55.623 AM)



Relative Level (1.00000 kHz) Parameters

Mode: Normalized at Reference
 Ref Frequency: 1.00000 kHz
 11/6/2019 10:39 AM

Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (11/6/2019 10:38:55.623 AM)

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 : 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 (11/6/2019 10:38:57.613 AM)

Ch1 117.283 dB

Ch2 117.121 dB

Preamp : 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 (11/6/2019 10:38:59.683 AM)

Ch1 -109.234 dB
 Ch2 -108.597 dB

THD Ratio (11/6/2019 10:38:59.683 AM)

Ch1 0.000241 %
 Ch2 0.000272 %

Noise Ratio (11/6/2019 10:38:59.683 AM)

Ch1 0.000242 %
 Ch2 0.000252 %

Distortion Product Ratio (11/6/2019 10:38:59.683 AM)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch1	-0.00	-113.11	-120.90	-146.42	-140.78	-139.71	-140.40	-144.99	-143.83	-141.10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.001k	9.001k	10.00k
Ch2	-0.00	-111.95	-120.20	-145.38	-145.17	-147.23	-142.71	-143.16	-145.89	-143.93

Distortion Product Ratio Parameters

Frequency Unit: Hz
 Ratio Unit: dB

Preamp : 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

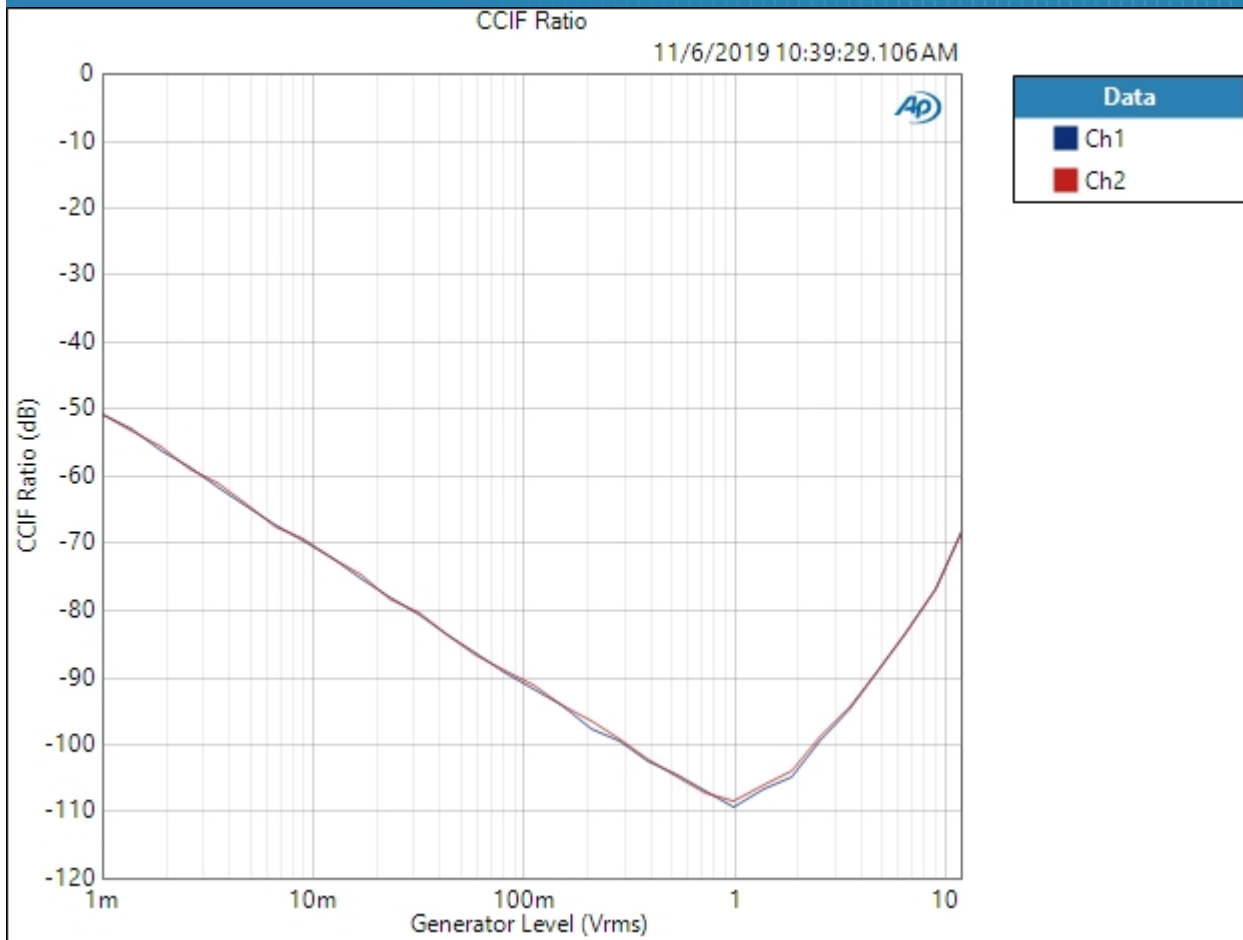
Step Type: Logarithmic

Number of Points: 31

Mode: d2+d3

Measured 1 11/6/2019 10:39:29 AM

CCIF Ratio (11/6/2019 10:39:29.106 AM)



Result: PASSED

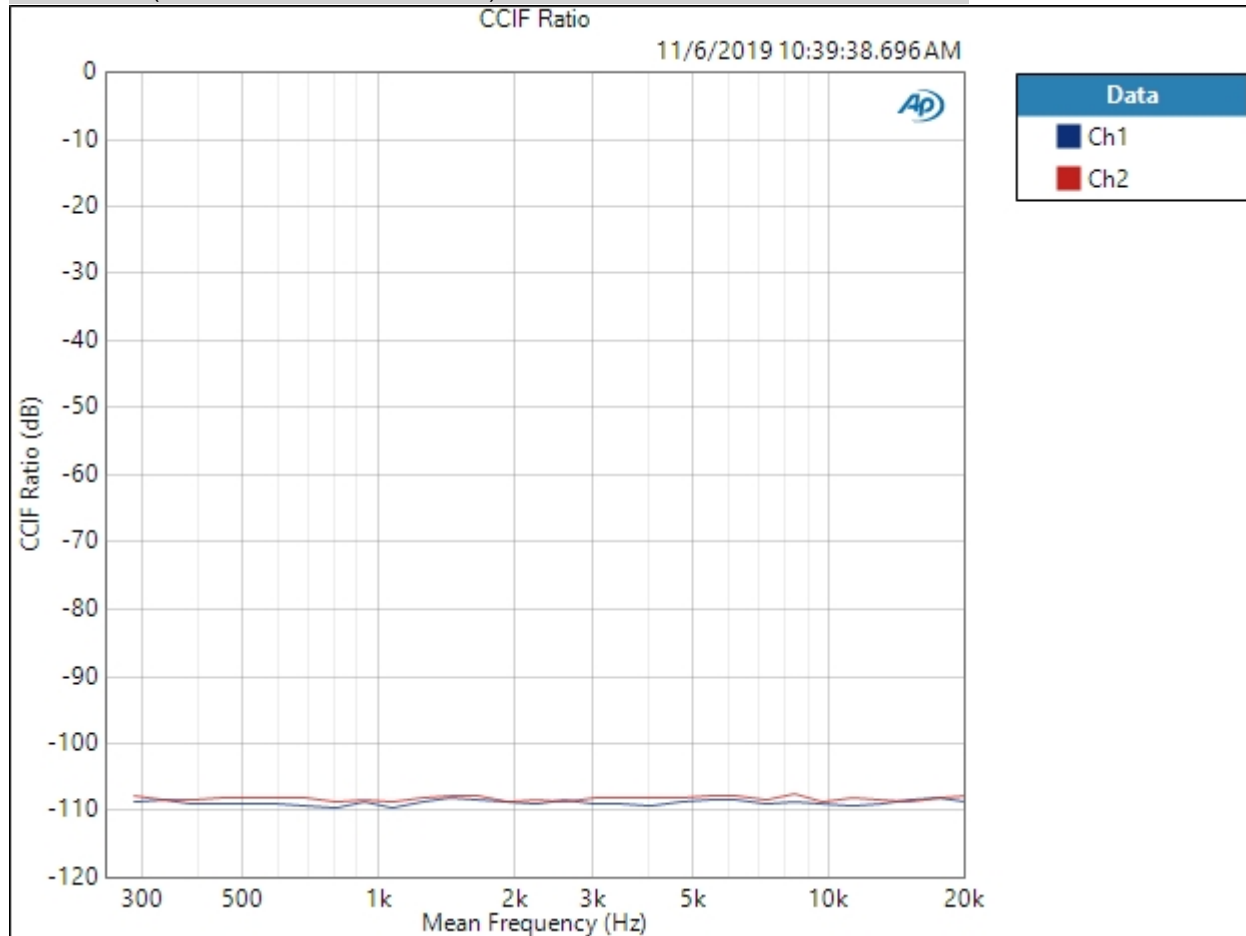
Schiit Amp APx555 Standard Test Suite: Magni 3+



Preamp : 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 11/6/2019 10:39:38 AM

CCIF Ratio (11/6/2019 10:39:38.696 AM)



11/6/2019 10:39 AM

Result:  PASSED

Preamp : Crosstalk, One Channel Undriven

Waveform: Sine

Generator Mode: High Performance Sine Generator

Generator Level: 1.000 Vrms

Frequency: 10.0000 kHz

Crosstalk (11/6/2019 10:39:39.946 AM)

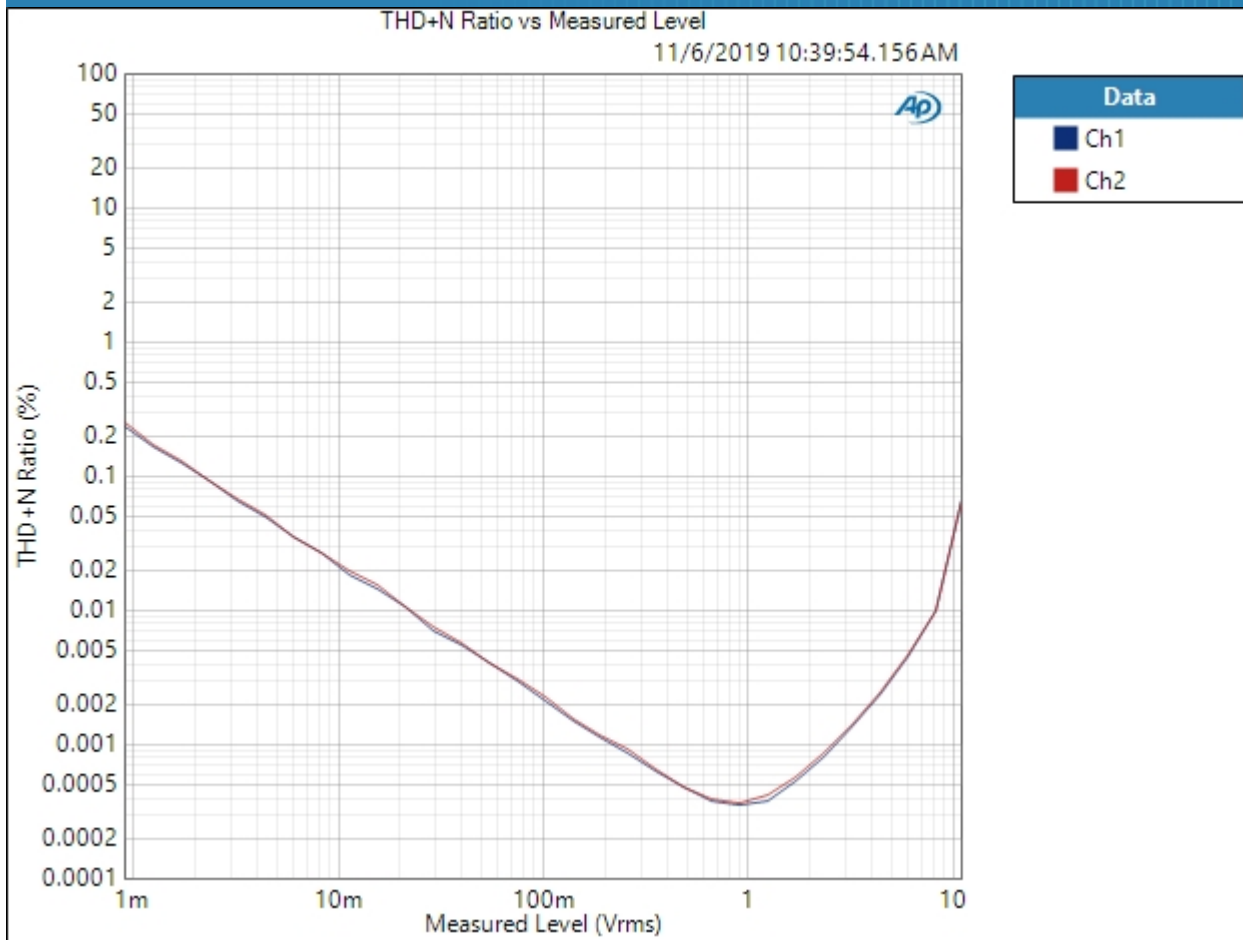
Ch1 -94.018 dB

Ch2 -97.551 dB

Preamp : 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 11/6/2019 10:39:54 AM

THD+N Ratio vs Measured Level (11/6/2019 10:39:54.156 AM)



Result: ✔ PASSED