

Summary

Signal Path1

Signal Path Setup	✓ PASSED
Signal to Noise Ratio	✓ PASSED
Frequency Response	✓ PASSED
Stepped Level Sweep	✓ PASSED
Stepped Frequency Sweep	✓ PASSED
IMD Level Sweep (SMPTE)	✓ PASSED

Signal Path 2

Signal Analyzer	✓ PASSED
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Sequence Result:

Sequence Result: ✓ PASSED

APx Instrument

Instrument ID: 28163
Calibration Date: 03/03/2016
APx Version: 4.6.0.255.130221

Signal Path1 : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	1
Configuration:	Normal (Differential)
Source Impedance:	40 ohm
AG52 Generator Option:	Installed
Output EQ:	None
Input Connector:	Analog Balanced
Channels:	1
Channel:	Ch1
Termination:	200 kohm
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:	34.60 Vrms
dBrB:	34.60 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	10.00 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	94.000 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	8.000 ohm
• DCX	
DCX is not detected.	

Signal Path1 : Verify Connections

Waveform: Sine
Generator Level: 2.500 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz

Gain (01/14/2020 5:49:49.344 PM)

BOSC 16.892 dB

Signal Path1 : Signal to Noise Ratio

Waveform: Sine
Generator Level: 5.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Low-pass Filter: 20 kHz
Weighting Filter: A-wt.
High-pass Filter: 20 Hz

Signal to Noise Ratio (SNR) A-wt. (01/14/2020 5:49:51.868 PM)

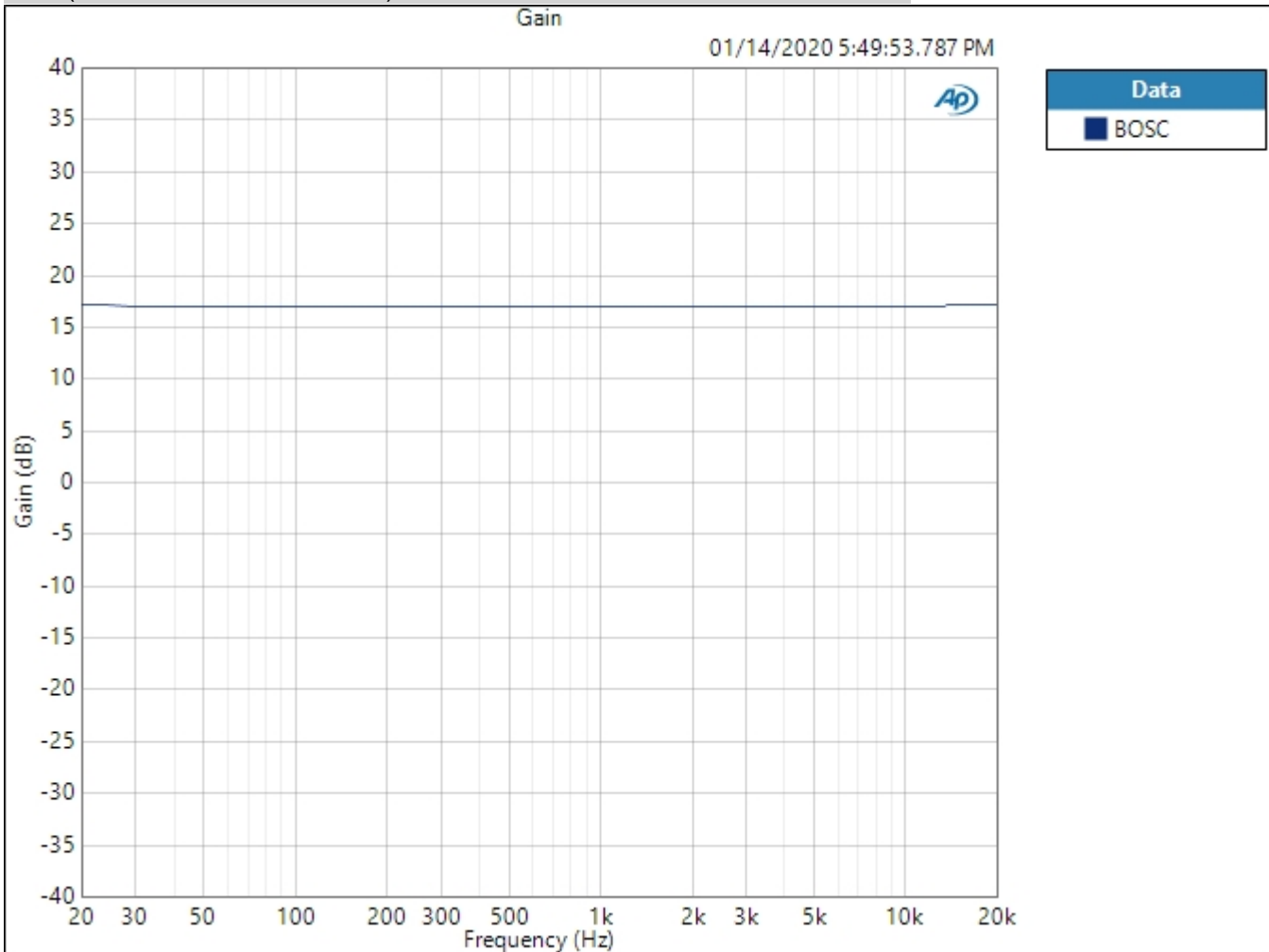
BOSC 121.199 dB

BOSC TEST

Signal Path1 : Frequency Response

Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Generator Level: 2.500 Vrms
DC Offset: 0.000 V
EQ: None
Pre-Sweep: 0.000 s
Sweep: 350.0 ms
Extend Acquisition By: 50.00 ms
Secondary Source: None
Measured 1 01/14/2020 5:49:53 PM

Gain (01/14/2020 5:49:53.787 PM)

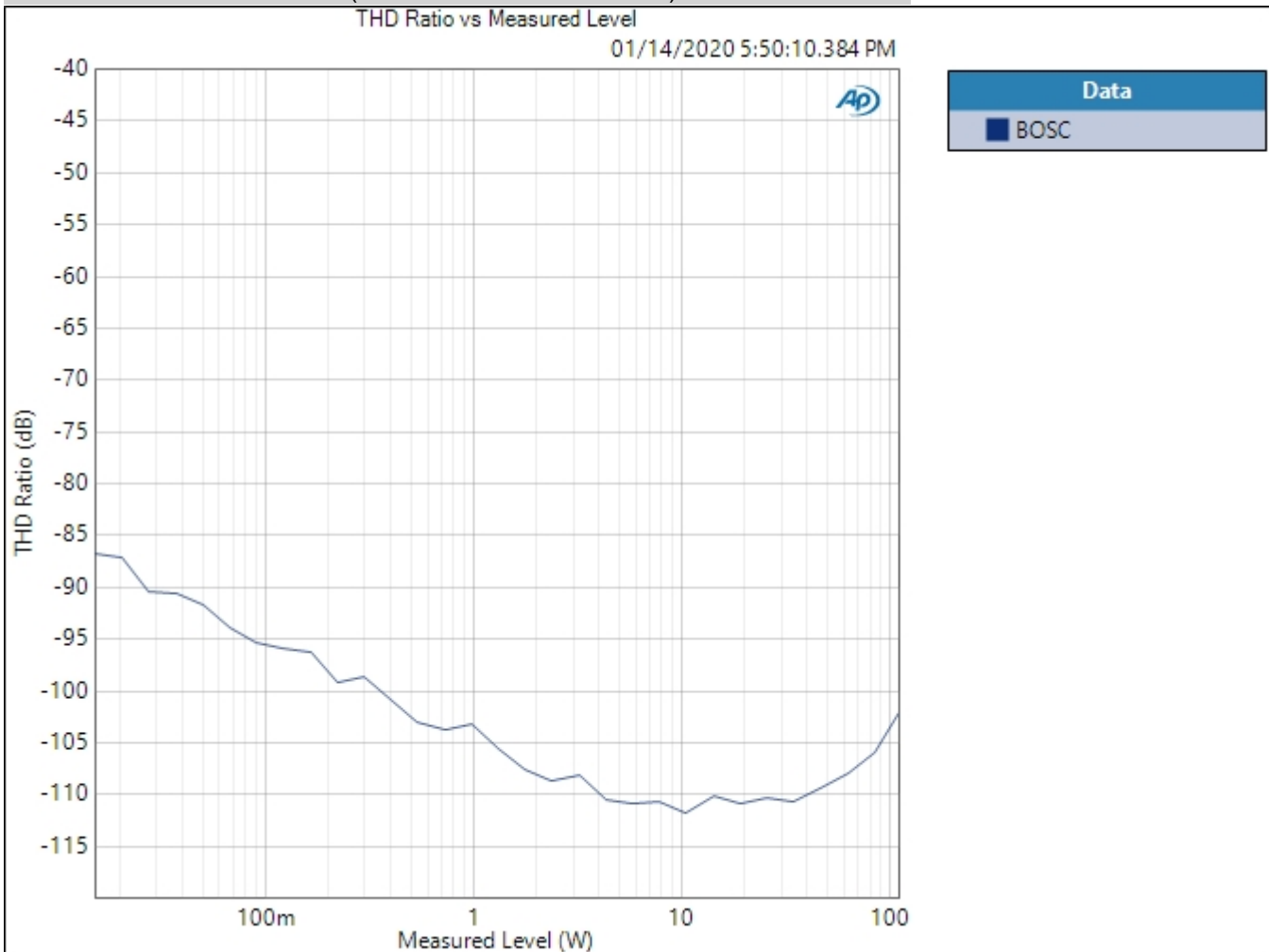


Result: PASSED

Signal Path1 : Stepped Level Sweep

Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Start Level: 50.00 mVrms
Stop Level: 4.250 Vrms
Step Type: Logarithmic
Number of Points: 31
Offset: 0.000 V
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Notch Tuning Mode: Generator Frequency
Measured 1 01/14/2020 5:50:10 PM

THD Ratio vs Measured Level (01/14/2020 5:50:10.384 PM)



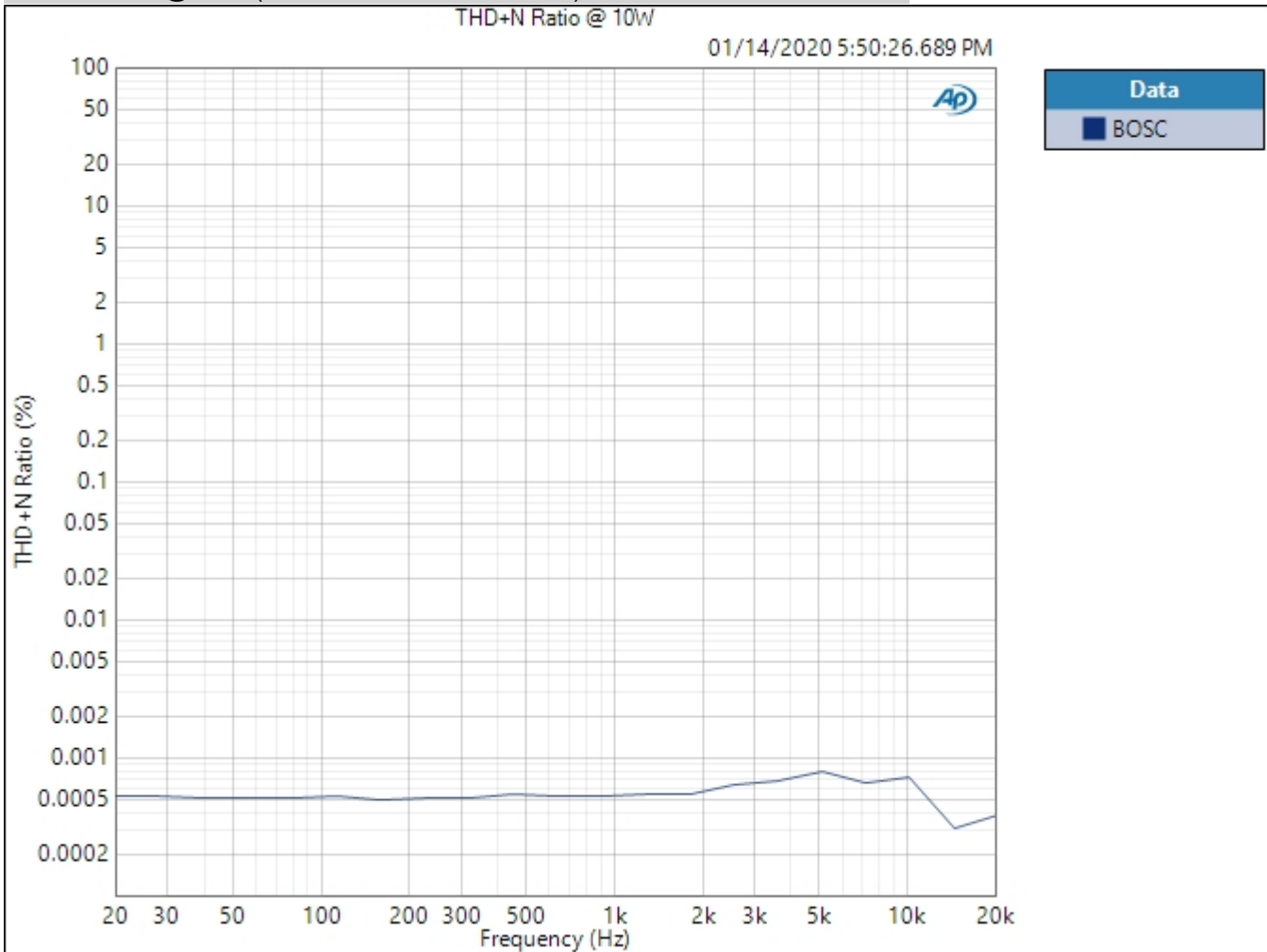
Result:  PASSED

BOSC TEST

Signal Path1 : Stepped Frequency Sweep

Generator Level: 1.300 Vrms
DC Offset: 0.000 V
EQ: None
Start Frequency: 20.0000 Hz
Stop Frequency: 20.0000 kHz
Step Type: Logarithmic
Number of Points: 21
Low-pass Filter: 20 kHz
Weighting Filter: Signal Path
High-pass Filter: 20 Hz
Phase Ref Channel: Ch1
Measured 1 01/14/2020 5:50:26 PM

THD+N Ratio @ 10W (01/14/2020 5:50:26.689 PM)

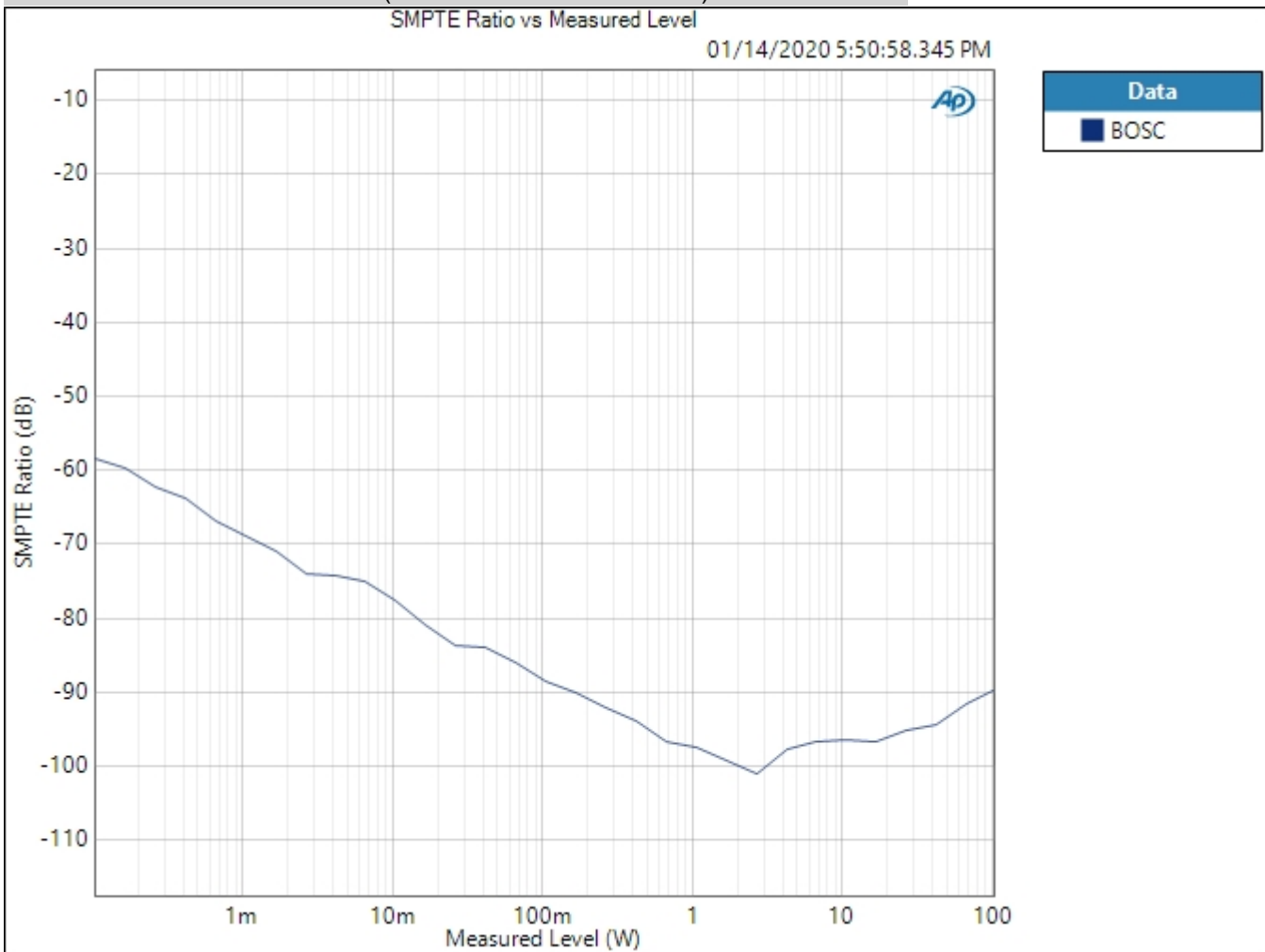


Result: PASSED

Signal Path1 : IMD Level Sweep (SMPTE)

IMD Type: SMPTE
Waveform: IMD
Generator Level: 5.000 Vrms
DC Offset: 0.000 V
Frequency 1: 60.0000 Hz
Frequency 2: 7.00000 kHz
Frequency Ratio: 4:1
IMD Split: False
Start Level: 5.000 mVrms
Stop Level: 5.000 Vrms
Step Type: Logarithmic
Number of Points: 31
Measured 1 01/14/2020 5:50:58 PM

SMPTE Ratio vs Measured Level (01/14/2020 5:50:58.345 PM)



Result: PASSED

1/14/2020 5:51 PM

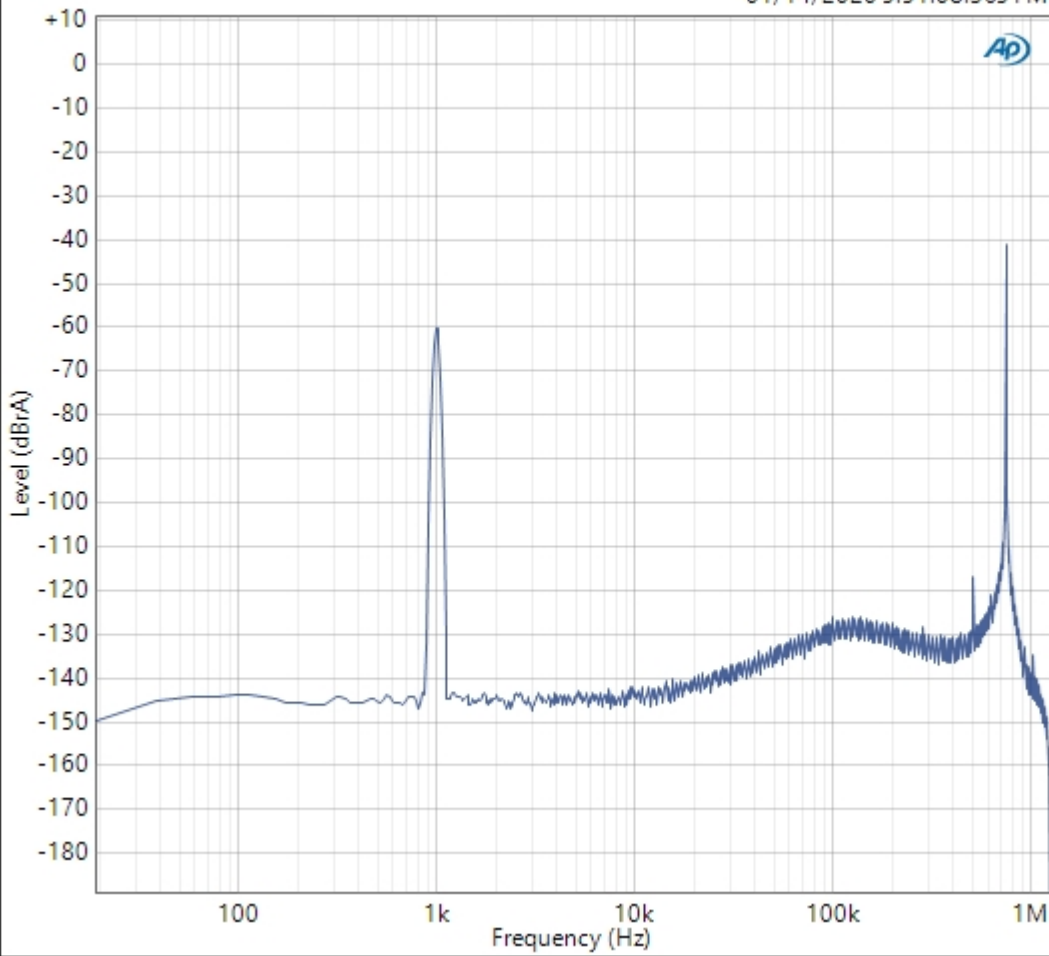
Signal Path 2 : Signal Analyzer

Waveform: Sine
Generator Level: 5.000 mVrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 01/14/2020 5:51:08 PM
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 128K
Averaging: Power
Averages: 25
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

Wideband FFT Spectrum -60dB Output (01/14/2020 5:51:08.365 PM)

Wideband FFT Spectrum -60dB Output

01/14/2020 5:51:08.365 PM



Result:  PASSED