Example Test Laboratory

Power Supply Ripple and Noise Test

Technician:	John Engineer
Test Date:	2026-01-02 19:15:39
Equipment:	SDS2104X Plus
Equipment ID:	SN12345678
Test Procedure:	TEST-PS-001 Rev 2.1
Project:	DC Power Supply Validation
Customer:	Acme Electronics
Temperature:	23°C
Humidity:	45% RH
Location:	Test Lab 3

Overall Result: ✗ FAIL

Measurements: 8 total, 6 passed, 2 failed

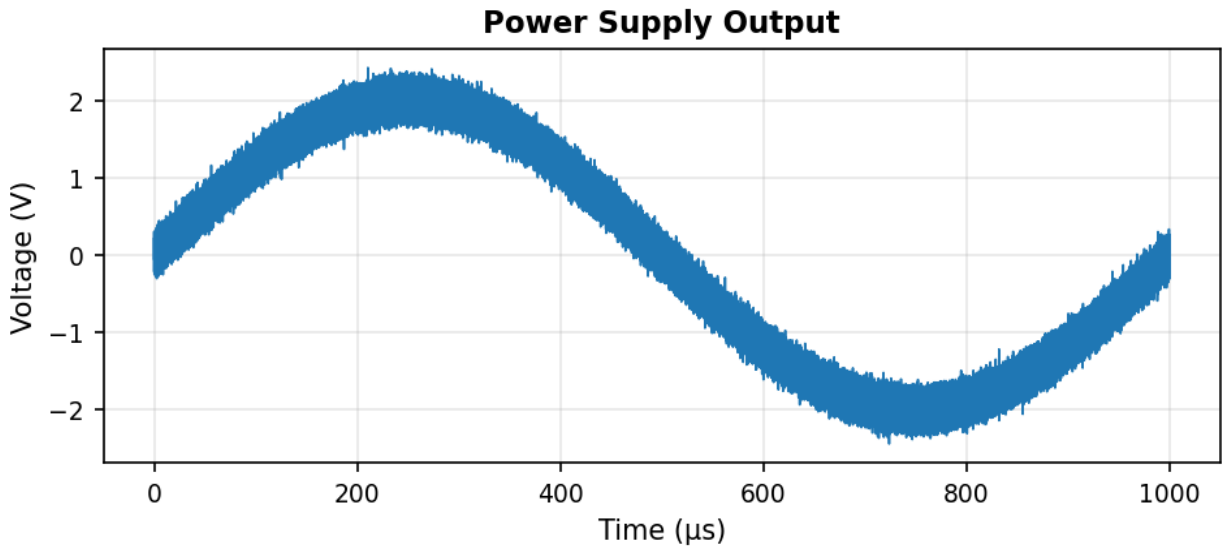
Test Setup

The device under test (DUT) was configured for 5V output with a 1A resistive load. Channel 1 of the oscilloscope was connected to the output using a 1:1 probe. The oscilloscope was set to 100 µs/div timebase with 1 V/div vertical scale.

Waveform Captures

Captured waveform showing the 1 kHz test signal output.

Waveforms



Channel: Power Supply Output

Sample Rate: 1000.00 MS/s

Timebase: 100.00 µs/div

Record Length: 1000000 samples

Peak-to-Peak: 4.8598 V

Min: -2.4402 V

Max: 2.4195 V

Measurements

Measurement	Value	Status	Criteria
Frequency (CH1)	1002 Hz	✓ PASS	min: 990 max: 1010
Peak-to-Peak (CH1)	3.98 V	✓ PASS	min: 3.8 max: 4.2
RMS (CH1)	1.42 V	✓ PASS	min: 1.35 max: 1.5
Rise Time (CH1)	1.25e-07 s	✗ FAIL	max: 1e-07

Measurement Results

Automated measurements with pass/fail criteria.

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