

ONE SHOT **PRODUCTIONS**

Audio | Video | Lighting | FX | Stage Design

One Shot Productions LLC
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Audio and Acoustics Department
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Sound Pressure Level Report

Report No. : 092818
Date : September 28, 2018

Customer : Denisha Johnson
Customer Address: Route 66 Music Venue
6000 Medlock Bridge Rd. Suite F100, Johns Creek, GA 30022



Testing Engineer
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1. Introduction

This sound pressure level test was conducted in reference to the Johns Creek Noise Nuisance regulations. We performed this test on the night of Sept. 28, 2018 from 8:55 PM-9:05 PM. We are able to show in this report that when music or pink noise is amplified through the venue's installed audio system at a maximum SPL level of 100 dBC, the SPL of the background noise level at the rear of the venue will not be raised by more than .5 dBC if the rear doors to the venue remain closed.

One Shot Productions is a Georgia registered sound and acoustics corporation. The test was conducted by Ryan Logue. Data analysis and report generation was conducted by Ryan Logue.

2. Testing Configuration

Environment:

Temperature: 79 degrees Fahrenheit

Relative Humidity: 72%

Wind: 1 mph

Testing Areas: Inside *the venue for reference and calibration, on the street behind the venue.*

Testing Method: Measurement of airborne noise emitted by the audio technology and equipment with SPL meters and Real Time Analysis (RTA) equipment mounted on stands at an average height of the human ear.

Frequency Bandwidth: 20 Hz~20kHz in 1/48th Octave bands

Frequency Weighting: C weighting

Measurement Duration: 1 Minutes

System Installation: The system being tested is installed at the stage inside of the venue.

Uncertainty: +/- 0.30 dB



3. Test Equipment

| <u>Equipment</u> | <u>Brand</u> | <u>Type</u> |
|-------------------------|---------------------|-------------------------|
| SPL Meter | VLIKE | Noise Sound Level Meter |

4. Disclaimers

1. The test results are only valid for the sound system tested.
2. This test report should be used in complete form and any statement or result partially referenced from this report is not valid.
3. One Shot Productions does not assure Route 66 will maintain the SPL limiters after the first event.
4. The tests were performed outdoors, so the ambient noises would cause SPL meters to spike up to 67-70 dB in all testing locations. The test results were recorded during times when there was the least amount of external ambient noise as possible.
5. Testing was performed with pink noise generated from the venue's mixing console, which evenly stimulates the entire audible spectrum between 20 Hz~20kHz.
6. One Shot Productions assume no responsibility for any SPL violations committed by the Route 66 venue. This report is informational only and in no way reflects the opinions of One Shot Productions.

5. Testing photos



above: Screenshot of video taken ambient noise tests during dB C Weight Testing at 8:59 PM, September, 28, 2018

right: Screenshot of video taken during 100 dB C Weight Testing at 9:00 PM, September, 28, 2018





6. Testing Results

| <u>Sound Source</u> | <u>Location</u> | <u>Sound Pressure Level (dBC) C weight</u> |
|--------------------------|---|--|
| Background Noise | Behind the venue approximately 50' from sound system at 8:59 pm | 61.6 |
| 100 dB Pink Noise | Behind the venue approximately 50' from sound system at 9:00 pm | 61.9 |