

**APPENDIX H:**  
**NOISE MONITORING DATA AND CALCULATIONS WORKSHEETS**

*[This Page Intentionally Left Blank]*



Source: Google Earth, Aerial View, 2019.

**Summary**

**File Name on Meter** 831\_Data.214  
**Serial Number** 0003748  
**Model** Model 831  
**Firmware Version** 2.311  
**User** Todd Davis  
**Job Description** Enlightenment Plaza  
**Location 1: Southeast corner of Madison Avenue and Cosmopolitan Street**  
**Noise Source: Light pedestrian and moderate vehicle traffic**


**Measurement**

**Description**  
**Start** 2019-06-13 11:35:00  
**Stop** 2019-06-13 11:50:00  
**Duration** 00:15:00.0  
**Run Time** 00:15:00.0  
**Pause** 00:00:00.0  
  
**Pre Calibration** 2019-06-13 11:22:13  
**Post Calibration** None  
**Calibration Deviation** --

**Overall Settings**

<b>RMS Weight</b>	A Weighting		
<b>Peak Weight</b>	Z Weighting		
<b>Detector</b>	Slow		
<b>Preamp</b>	PRM831		
<b>Microphone Correction</b>	Off		
<b>Integration Method</b>	Linear		
<b>Gain</b>	0.0 dB		
<b>Overload</b>	142.0 dB		
	<b>A</b>	<b>C</b>	<b>Z</b>
<b>Under Range Peak</b>	74.4	71.4	<b>76.4</b> dB
<b>Under Range Limit</b>	<b>25.9</b>	26.1	31.2 dB
<b>Noise Floor</b>	16.8	17.0	22.0 dB

**Results**

<b>LAeq</b>	58.6 dB	
<b>LAE</b>	88.2 dB	
<b>EA</b>	73.218 $\mu\text{Pa}^2\text{h}$	
<b>LZpeak (max)</b>	2019-06-13 11:47:38	97.3 dB
<b>LASmax</b>	2019-06-13 11:47:38	81.8 dB
<b>LASmin</b>	2019-06-13 11:46:18	47.4 dB
<b>SEA</b>	-99.9 dB	

<b>LAS &gt; 65.0 dB (Exceedance Counts / Duration)</b>	7	32.3 s
<b>LAS &gt; 85.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s
<b>LZpeak &gt; 135.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s
<b>LZpeak &gt; 137.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s
<b>LZpeak &gt; 140.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s

<b>Community Noise</b>	<b>Ldn</b>	<b>LDay 07:00-22:00</b>	<b>Lden</b>	<b>LDay 07:00-19:00</b>
	58.6	58.6	58.6	58.6

<b>LCeq</b>	68.8 dB
<b>LAeq</b>	58.6 dB
<b>LCeq - LAeq</b>	10.2 dB
<b>LAlaq</b>	62.9 dB
<b>LAeq</b>	58.6 dB
<b>LAlaq - LAeq</b>	4.3 dB



Leq  
 LS(max)  
 LF(max)  
 LI(max)  
 LS(min)  
 LF(min)  
 LI(min)  
 LPeak(max)

	A	
	dB	Time Stamp
	58.6	
	81.8	2019/06/13 11:47:38
	85.6	2019/06/13 11:47:38
	87.6	2019/06/13 11:47:38
	47.4	2019/06/13 11:46:18
	46.5	2019/06/13 11:46:25
	46.9	2019/06/13 11:46:25
	96.2	2019/06/13 11:47:38

# Overloads

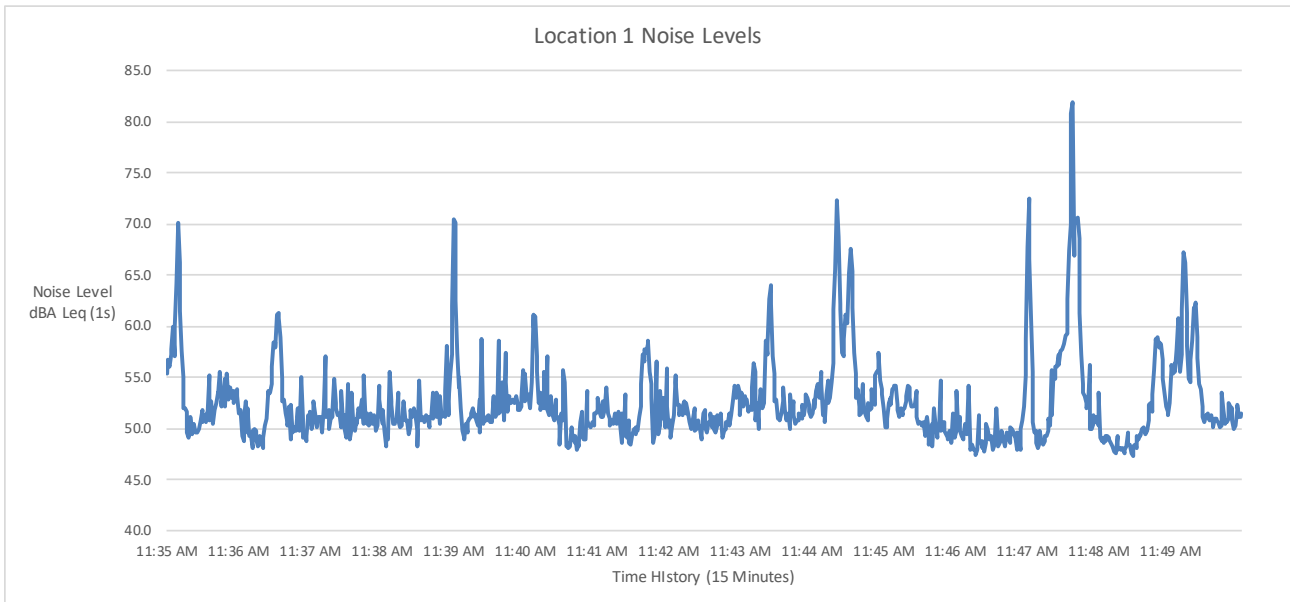
0

Overload Duration

0.0 s

#### Statistics

LAS5.00	61.0 dB
LAS10.00	58.0 dB
LAS33.30	52.8 dB
LAS50.00	51.6 dB
LAS66.60	50.8 dB
LAS90.00	49.2 dB



**Summary**

File Name on Meter 831\_Data.215  
 Serial Number 0003748  
 Model Model 831  
 Firmware Version 2.311  
 User Todd Davis  
 Job Description Enlightenment Plaza  
 Location 2: East side of Westmoreland Avenue between Oakwood Avenue and Beverly Blvd  
 Noise Source: Light pedestrian vehicle and pedestrian use, ongoing construction on the West side of Westmoreland Avenue


**Measurement**
**Description**

Start 2019-06-13 12:06:40  
 Stop 2019-06-13 12:21:40  
 Duration 00:15:00.0  
 Run Time 00:15:00.0  
 Pause 00:00:00.0

Pre Calibration 2019-06-13 11:22:09  
 Post Calibration None  
 Calibration Deviation ---

**Overall Settings**

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRM831		
Microphone Correction	Off		
Integration Method	Linear		
Gain	0.0 dB		
Overload	142.0 dB		
	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	74.4	71.4	76.4 dB
Under Range Limit	25.9	26.1	31.2 dB
Noise Floor	16.8	17.0	22.0 dB

**Results**

L <sub>Aeq</sub>	67.5 dB		
L <sub>AE</sub>	97.0 dB		
E <sub>A</sub>	556.763 $\mu\text{Pa}^2\text{h}$		
L <sub>Zpeak</sub> (max)	2019-06-13 12:07:46	107.3 dB	
L <sub>ASmax</sub>	2019-06-13 12:07:46	80.1 dB	
L <sub>ASmin</sub>	2019-06-13 12:18:30	56.0 dB	
SEA	-99.9 dB		

L <sub>AS</sub> > 65.0 dB (Exceedance Counts / Duration)	24	420.8 s
L <sub>AS</sub> > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
L <sub>Zpeak</sub> > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
L <sub>Zpeak</sub> > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
L <sub>Zpeak</sub> > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	<b>L<sub>dn</sub></b>	<b>L<sub>Day</sub> 07:00-22:00</b>	<b>L<sub>den</sub></b>	<b>L<sub>Day</sub> 07:00-19:00</b>
	67.5	67.5	67.5	67.5

L <sub>Ceq</sub>	76.5 dB
L <sub>Aeq</sub>	67.5 dB
L <sub>Ceq</sub> - L <sub>Aeq</sub>	9.0 dB
L <sub>L<sub>Aeq</sub></sub>	72.5 dB
L <sub>Aeq</sub>	67.5 dB
L <sub>L<sub>Aeq</sub></sub> - L <sub>Aeq</sub>	5.0 dB

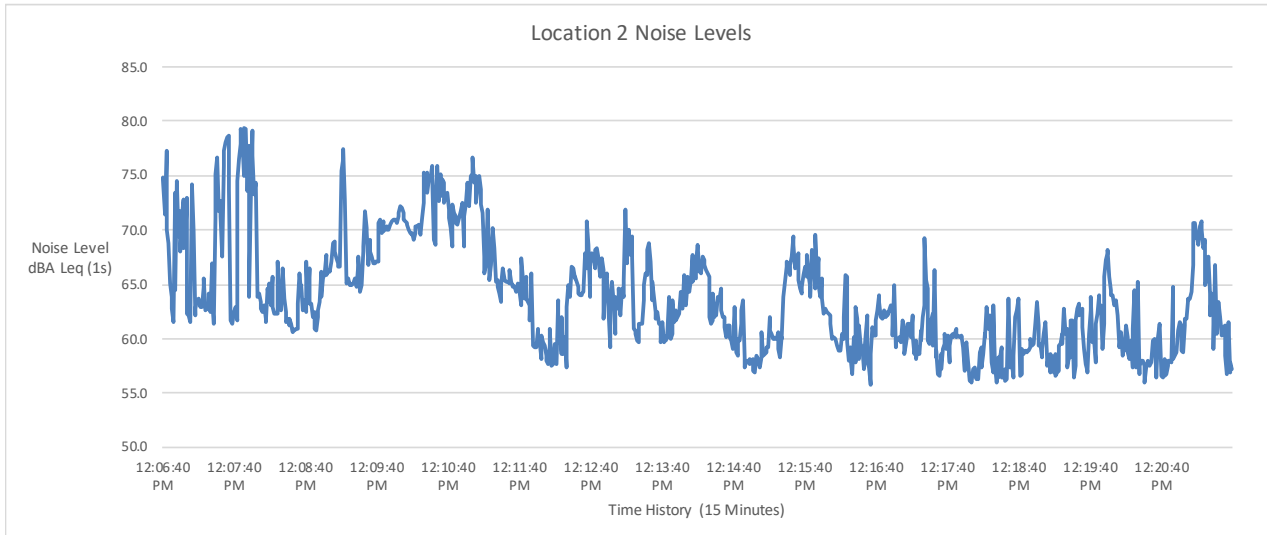
Leq  
 LS(max)  
 LF(max)  
 LI(max)  
 LS(min)  
 LF(min)  
 LI(min)  
 LPeak(max)

A	
dB	Time Stamp
67.5	
80.1	2019/06/13 12:07:46
85.3	2019/06/13 12:07:46
89.6	2019/06/13 12:07:46
56.0	2019/06/13 12:18:30
55.0	2019/06/13 12:18:30
55.5	2019/06/13 12:18:30
108.8	2019/06/13 12:07:46

# Overloads 0  
 Overload Duration 0.0 s

**Statistics**

LAS5.00	73.9 dB
LAS10.00	71.3 dB
LAS33.30	65.5 dB
LAS50.00	63.2 dB
LAS66.60	61.0 dB
LAS90.00	58.5 dB



**Summary**

**File Name on Meter** 831\_Data.216  
**Serial Number** 0003748  
**Model** Model 831  
**Firmware Version** 2.311  
**User** Todd Davis  
**Job Description** Enlightenment Plaza  
**Location 3: East side of Madison Avenue between Oakwood Avenue and Beverly Blvd**  
**Noise Source: Moderate pedestrian and light vehicle traffic. Construction on site is audible.**


**Measurement**

**Description**  
**Start** 2019-06-13 12:36:39  
**Stop** 2019-06-13 12:51:39  
**Duration** 00:15:00.0  
**Run Time** 00:15:00.0  
**Pause** 00:00:00.0  
  
**Pre Calibration** 2019-06-13 11:22:09  
**Post Calibration** None  
**Calibration Deviation** ---

**Overall Settings**

**RMS Weight** A Weighting  
**Peak Weight** Z Weighting  
**Detector** Slow  
**Preamp** PRM831  
**Microphone Correction** Off  
**Integration Method** Linear  
**Gain** 0.0 dB  
**Overload** 142.0 dB  
  

	A	C	Z
<b>Under Range Peak</b>	74.4	71.4	<b>76.4</b> dB
<b>Under Range Limit</b>	<b>25.9</b>	26.1	31.2 dB
<b>Noise Floor</b>	16.8	17.0	22.0 dB

**Results**

**LAeq** 74.1 dB  
**LAE** 103.6 dB  
**EA** 2.556 mPa<sup>2</sup>h  
**LZ<sub>peak</sub> (max)** 2019-06-13 12:39:14 106.1 dB  
**LAS<sub>max</sub>** 2019-06-13 12:39:15 88.0 dB  
**LAS<sub>min</sub>** 2019-06-13 12:44:47 60.5 dB  
**SEA** -99.9 dB

**LAS > 65.0 dB (Exceedance Counts / Duration)** 28 689.8 s  
**LAS > 85.0 dB (Exceedance Counts / Duration)** 6 16.3 s  
**LZ<sub>peak</sub> > 135.0 dB (Exceedance Counts / Duration)** 0 0.0 s  
**LZ<sub>peak</sub> > 137.0 dB (Exceedance Counts / Duration)** 0 0.0 s  
**LZ<sub>peak</sub> > 140.0 dB (Exceedance Counts / Duration)** 0 0.0 s

**Community Noise**

	<b>Ldn</b>	<b>LDay 07:00-22:00</b>	<b>Lden</b>	<b>LDay 07:00-19:00</b>
	74.1	74.1	74.1	74.1

**LCeq** 78.2 dB  
**LAeq** 74.1 dB  
**LCeq - LAeq** 4.1 dB  
**LALeq** 80.7 dB  
**LAeq** 74.1 dB  
**LALeq - LAeq** 6.6 dB



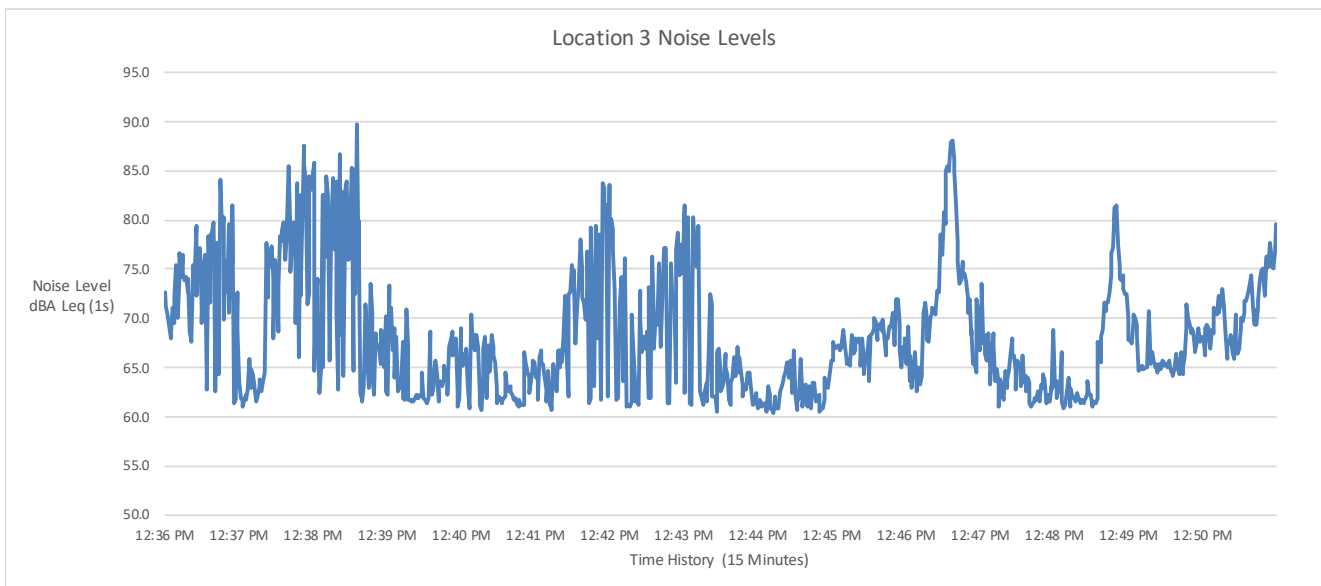
**Leq**  
**LS(max)**  
**LF(max)**  
**Ll(max)**  
**LS(min)**  
**LF(min)**  
**Ll(min)**  
**LPeak(max)**

A	dB	Time Stamp
	74.1	
	88.0	2019/06/13 12:39:15
	94.3	2019/06/13 12:39:14
	97.0	2019/06/13 12:39:14
	60.5	2019/06/13 12:44:47
	59.5	2019/06/13 12:45:11
	60.2	2019/06/13 12:44:47
	106.3	2019/06/13 12:39:01

**# Overloads** 0  
**Overload Duration** 0.0 s

**Statistics**

<b>LAS5.00</b>	80.7 dB
<b>LAS10.00</b>	77.7 dB
<b>LAS33.30</b>	70.4 dB
<b>LAS50.00</b>	67.4 dB
<b>LAS66.60</b>	65.1 dB
<b>LAS90.00</b>	62.0 dB



**Summary**

**File Name on Meter** 831\_Data.217  
**Serial Number** 0003748  
**Model** Model 831  
**Firmware Version** 2.311  
**User** Todd Davis  
**Job Description** Enlightenment Plaza  
**Location 4: North side of Oakwood Avenue, between Juanita Avenue and Madison Avenue**  
**Noise Source: Light vehicle and pedestrian traffic**


**Measurement**

**Description**  
**Start** 2019-06-13 12:59:03  
**Stop** 2019-06-13 13:14:03  
**Duration** 00:15:00.0  
**Run Time** 00:15:00.0  
**Pause** 00:00:00.0  
  
**Pre Calibration** 2019-06-13 11:22:09  
**Post Calibration** None  
**Calibration Deviation** --

**Overall Settings**

**RMS Weight** A Weighting  
**Peak Weight** Z Weighting  
**Detector** Slow  
**Preamp** PRM831  
**Microphone Correction** Off  
**Integration Method** Linear  
**Gain** 0.0 dB  
**Overload** 142.0 dB  
  

	A	C	Z
<b>Under Range Peak</b>	74.4	71.4	76.4 dB
<b>Under Range Limit</b>	25.9	26.1	31.2 dB
<b>Noise Floor</b>	16.8	17.0	22.0 dB

**Results**

**LAeq** 66.7 dB  
**LAE** 96.2 dB  
**EA** 463.337  $\mu\text{Pa}^2\text{h}$   
**LZ<sub>peak</sub> (max)** 2019-06-13 13:00:57 107.8 dB  
**LAS<sub>max</sub>** 2019-06-13 13:00:57 85.9 dB  
**LAS<sub>min</sub>** 2019-06-13 13:10:31 54.0 dB  
**SEA** -99.9 dB  
  

<b>LAS &gt; 65.0 dB (Exceedance Counts / Duration)</b>	43	416.4 s
<b>LAS &gt; 85.0 dB (Exceedance Counts / Duration)</b>	1	1.5 s
<b>LZ<sub>peak</sub> &gt; 135.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s
<b>LZ<sub>peak</sub> &gt; 137.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s
<b>LZ<sub>peak</sub> &gt; 140.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	66.7	66.7	66.7	66.7

**LCeq** 75.6 dB  
**LAeq** 66.7 dB  
**LCeq - LAeq** 8.9 dB  
**LALeq** 68.8 dB  
**LAeq** 66.7 dB  
**LALeq - LAeq** 2.1 dB

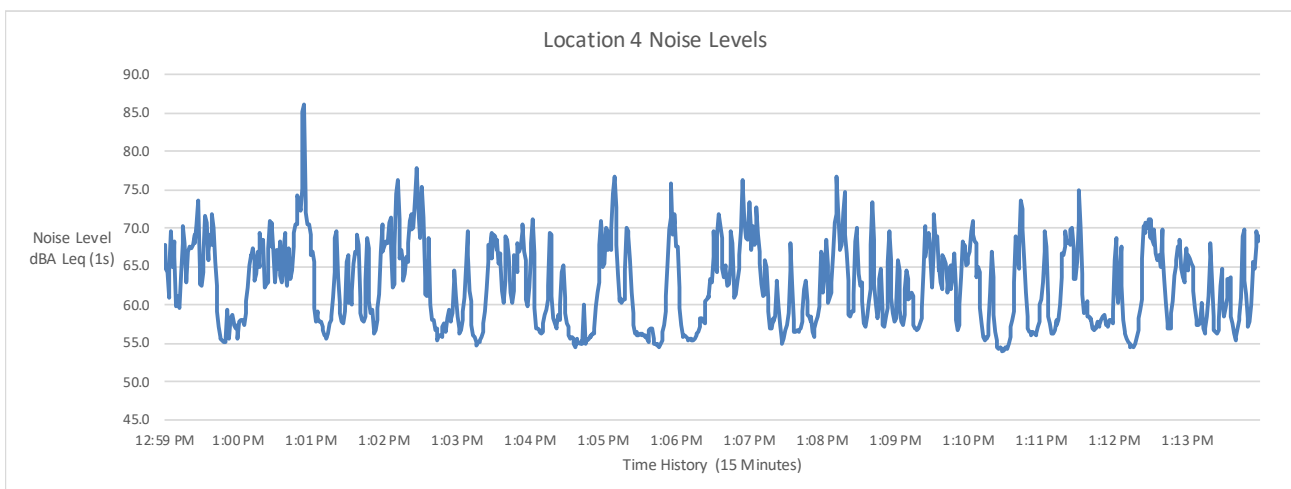
Leq  
 Ls(max)  
 Lf(max)  
 Li(max)  
 Ls(min)  
 Lf(min)  
 Li(min)  
 LPeak(max)

A	
dB	Time Stamp
66.7	
85.9	2019/06/13 13:00:57
88.9	2019/06/13 13:00:57
90.4	2019/06/13 13:00:57
54.0	2019/06/13 13:10:31
53.4	2019/06/13 13:10:31
53.9	2019/06/13 13:10:31
100.5	2019/06/13 13:00:57

# Overloads 0  
 Overload Duration 0.0 s

**Statistics**

LAS5.00 71.1 dB  
 LAS10.00 69.4 dB  
 LAS33.30 65.8 dB  
 LAS50.00 62.9 dB  
 LAS66.60 59.2 dB  
 LAS90.00 56.2 dB



**Summary**

**File Name on Meter** 831\_Data.219  
**Serial Number** 0003748  
**Model** Model 831  
**Firmware Version** 2.311  
**User** Todd Davis  
**Job Description** Enlightenment Plaza  
**Location 5: West side of Juanita Avenue, between Oakwood Avenue and Beverly Avenue**  
**Noise Source: Light pedestrian and moderate vehicle traffic.**


**Measurement**

**Description**  
**Start** 2019-06-13 13:33:34  
**Stop** 2019-06-13 13:48:34  
**Duration** 00:15:00.0  
**Run Time** 00:15:00.0  
**Pause** 00:00:00.0  
  
**Pre Calibration** 2019-06-13 11:22:09  
**Post Calibration** None  
**Calibration Deviation** --

**Overall Settings**

**RMS Weight** A Weighting  
**Peak Weight** Z Weighting  
**Detector** Slow  
**Preamp** PRM831  
**Microphone Correction** Off  
**Integration Method** Linear  
**Gain** 0.0 dB  
**Overload** 142.0 dB  
  

	A	C	Z
<b>Under Range Peak</b>	74.4	71.4	<b>76.4</b> dB
<b>Under Range Limit</b>	<b>25.9</b>	26.1	31.2 dB
<b>Noise Floor</b>	16.8	17.0	22.0 dB

**Results**

<b>LAeq</b>	63.8 dB			
<b>LAE</b>	93.4 dB			
<b>EA</b>	242.248 $\mu\text{Pa}^2\text{h}$			
<b>LZpeak (max)</b>	2019-06-13 13:40:19	109.4 dB		
<b>LASmax</b>	2019-06-13 13:40:18	86.2 dB		
<b>LASmin</b>	2019-06-13 13:45:19	52.3 dB		
<b>SEA</b>	-99.9 dB			
<b>LAS &gt; 65.0 dB (Exceedance Counts / Duration)</b>	10	49.0 s		
<b>LAS &gt; 85.0 dB (Exceedance Counts / Duration)</b>	1	2.9 s		
<b>LZpeak &gt; 135.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s		
<b>LZpeak &gt; 137.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s		
<b>LZpeak &gt; 140.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s		
<b>Community Noise</b>	<b>Ldn</b>	<b>LDay 07:00-22:00</b>	<b>Lden</b>	<b>LDay 07:00-19:00</b>
	63.8	63.8	63.8	63.8
<b>LCeq</b>	76.2 dB			
<b>LAeq</b>	63.8 dB			
<b>LCeq - LAeq</b>	12.3 dB			
<b>LAlaq</b>	66.3 dB			
<b>LAeq</b>	63.8 dB			
<b>LAlaq - LAeq</b>	2.4 dB			



**Leq**  
**LS(max)**  
**LF(max)**  
**L(max)**  
**LS(min)**  
**LF(min)**  
**L(min)**  
**LPeak(max)**

A	
dB	Time Stamp
63.8	
86.2	2019/06/13 13:40:18
88.2	2019/06/13 13:40:18
88.8	2019/06/13 13:40:18
52.3	2019/06/13 13:45:19
51.7	2019/06/13 13:45:14
52.0	2019/06/13 13:45:17
99.5	2019/06/13 13:40:17

**# Overloads**

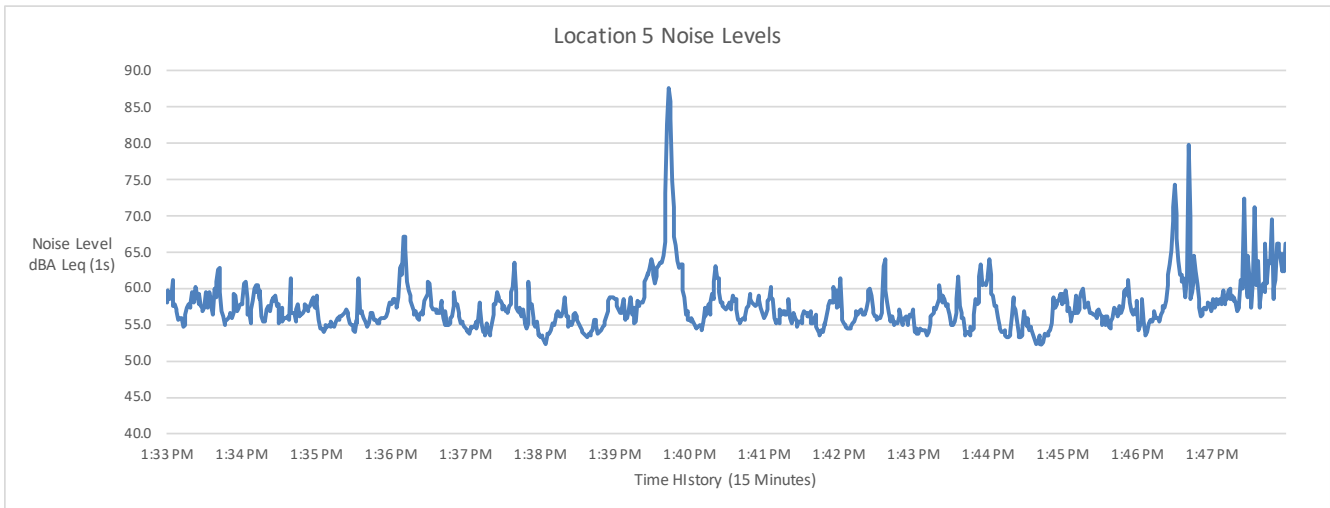
0

**Overload Duration**

0.0 s

#### Statistics

<b>LAS5.00</b>	63.8 dB
<b>LAS10.00</b>	61.6 dB
<b>LAS33.30</b>	57.9 dB
<b>LAS50.00</b>	56.9 dB
<b>LAS66.60</b>	56.1 dB
<b>LAS90.00</b>	54.5 dB



**Summary**

**File Name on Meter** 831\_Data.220  
**Serial Number** 0003748  
**Model** Model 831  
**Firmware Version** 2.311  
**User** Todd Davis  
**Job Description** Enlightenment Plaza  
**Location 6: East Side of Vermont Avenue, between Oakwood Avenue and Beverly Blvd**  
**Noise Source: Heavy vehicle and light pedestrian traffic**


**Measurement**

**Description**  
**Start** 2019-06-13 14:01:56  
**Stop** 2019-06-13 14:16:56  
**Duration** 00:15:00.0  
**Run Time** 00:15:00.0  
**Pause** 00:00:00.0  
  
**Pre Calibration** 2019-06-13 11:22:09  
**Post Calibration** None  
**Calibration Deviation** ---

**Overall Settings**

**RMS Weight** A Weighting  
**Peak Weight** Z Weighting  
**Detector** Slow  
**Preamp** PRM831  
**Microphone Correction** Off  
**Integration Method** Linear  
**Gain** 0.0 dB  
**Overload** 142.0 dB  
  

	A	C	Z
<b>Under Range Peak</b>	74.4	71.4	<b>76.4 dB</b>
<b>Under Range Limit</b>	<b>25.9</b>	26.1	31.2 dB
<b>Noise Floor</b>	16.8	17.0	22.0 dB

**Results**

**LAeq** 76.6 dB  
**LAE** 106.1 dB  
**EA** 4.569 mPa<sup>2</sup>h  
**LZpeak (max)** 2019-06-13 14:11:42 130.7 dB  
**LASmax** 2019-06-13 14:11:42 102.2 dB  
**LASmin** 2019-06-13 14:02:14 59.5 dB  
**SEA** 141.5 dB  
  

<b>LAS &gt; 65.0 dB (Exceedance Counts / Duration)</b>	7	821.0 s
<b>LAS &gt; 85.0 dB (Exceedance Counts / Duration)</b>	3	9.2 s
<b>LZpeak &gt; 135.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s
<b>LZpeak &gt; 137.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s
<b>LZpeak &gt; 140.0 dB (Exceedance Counts / Duration)</b>	0	0.0 s

Community Noise	Ldn	LDay 07:00-22:00	Lden	LDay 07:00-19:00
	76.6	76.6	76.6	76.6

**LCeq** 86.5 dB  
**LAeq** 76.6 dB  
**LCeq - LAeq** 9.9 dB  
**LAlaq** 83.9 dB  
**LAEq** 76.6 dB  
**LAlaq - LAeq** 7.3 dB

**Leq**  
**LS(max)**  
**LF(max)**  
**Ll(max)**  
**LS(min)**  
**LF(min)**  
**Ll(min)**  
**LPeak(max)**

A		
	dB	Time Stamp
	76.6	
	102.2	2019/06/13 14:11:42
	108.3	2019/06/13 14:11:42
	110.9	2019/06/13 14:11:42
	59.5	2019/06/13 14:02:14
	59.0	2019/06/13 14:02:14
	59.3	2019/06/13 14:02:14
	128.5	2019/06/13 14:11:42

**# Overloads**  
**Overload Duration**

0  
 0.0 s

**Statistics**

LAS5.00	78.9 dB
LAS10.00	77.1 dB
LAS33.30	72.9 dB
LAS50.00	70.6 dB
LAS66.60	68.2 dB
LAS90.00	63.8 dB

