

# **APPENDIX**

## **10.8 Noise Modeling Studies**

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<b>Site Number:</b> 1			
<b>Recorded By:</b> Ryan Chiene			
<b>Job Number:</b>			
<b>Date:</b> 10/15/15			
<b>Time:</b> 9:59 a.m.			
<b>Location:</b> Easternmost portion of West Century Drive, to the north/northwest of the San Bernardino Public Golf Course.			
<b>Source of Peak Noise:</b> Cars driving along West Century Drive, traffic on South E Street, buses in lot the north, birds chirping.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
58.7	52.9	83.3	92.3

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Overcast		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	1.8		78.0		29.92	

**Photo of Measurement Location**





2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		10/15/2015 09:59:22
End Time:		10/15/2015 10:09:22
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.43

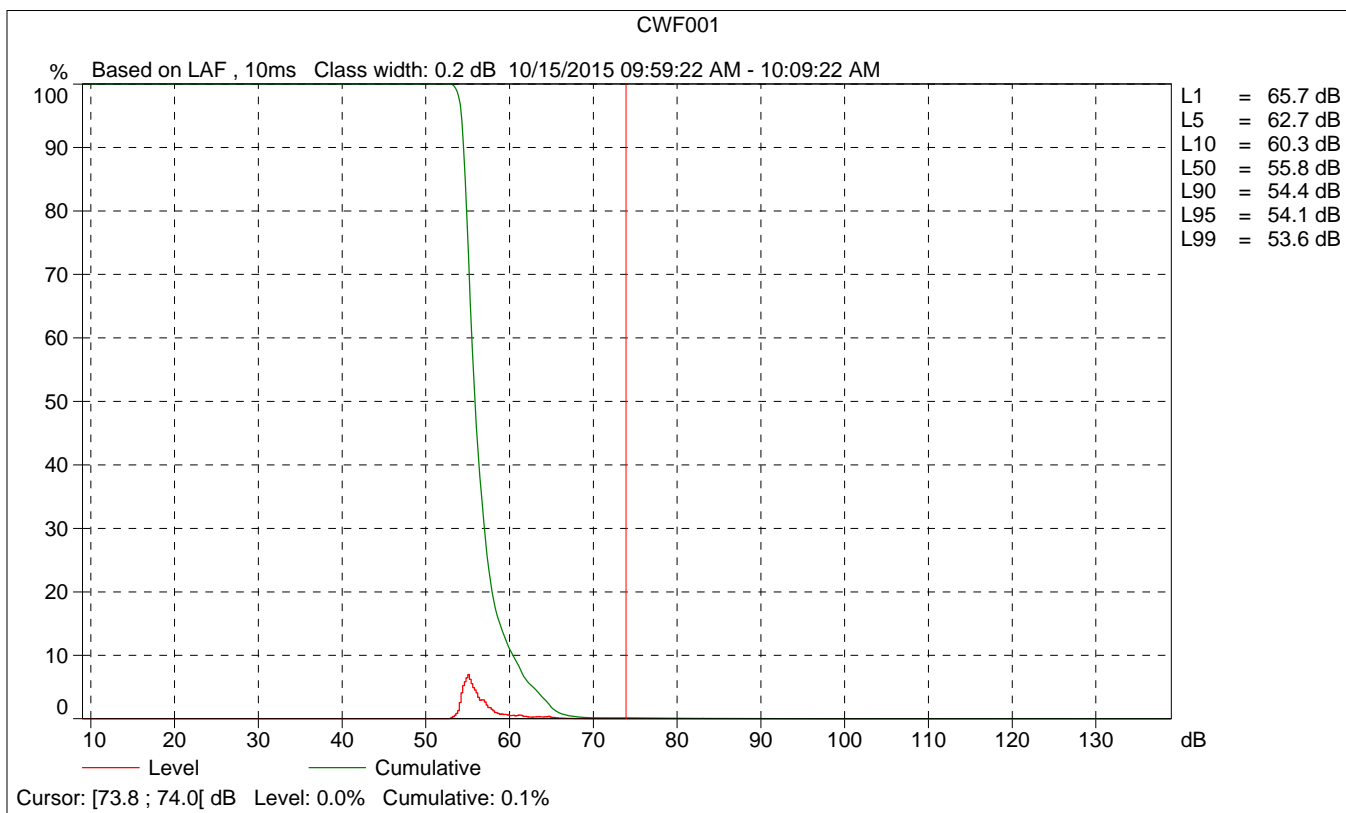
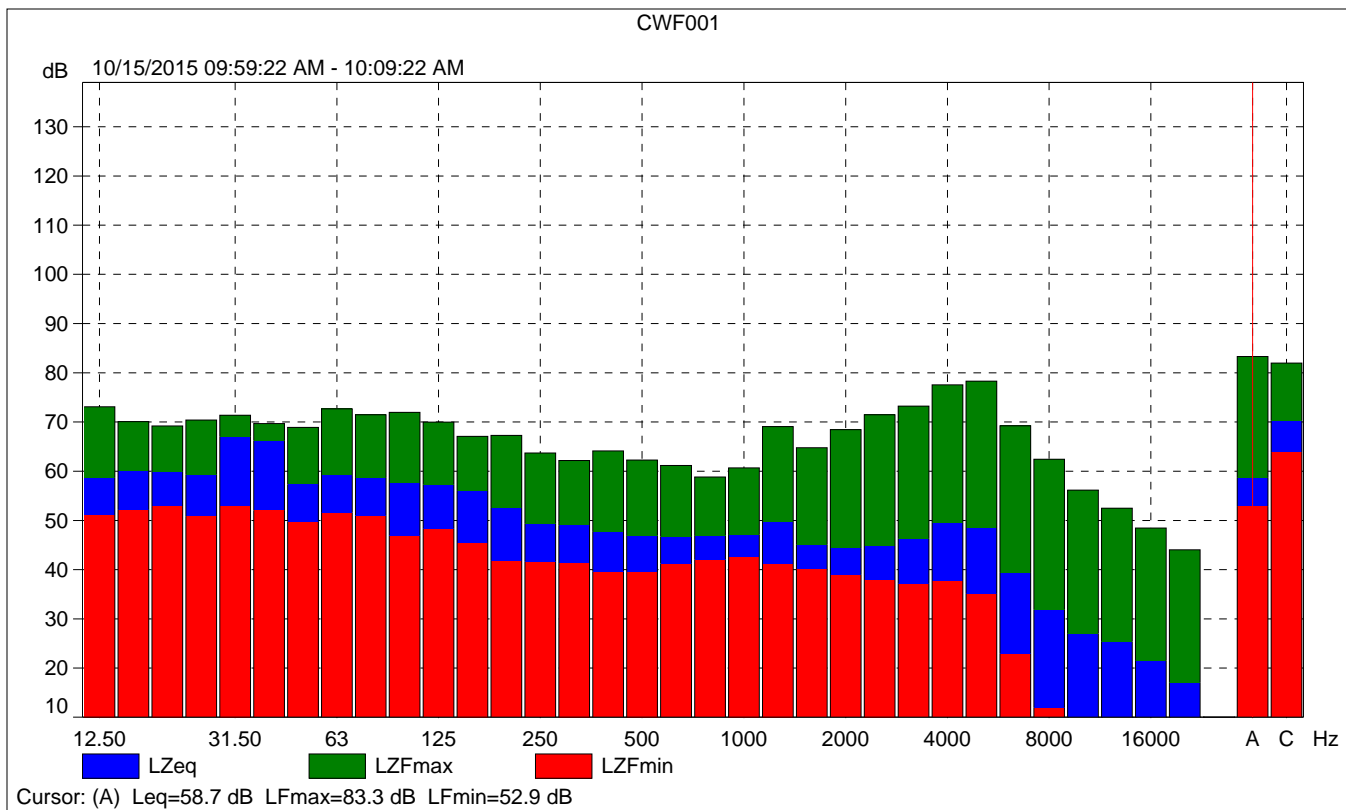
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

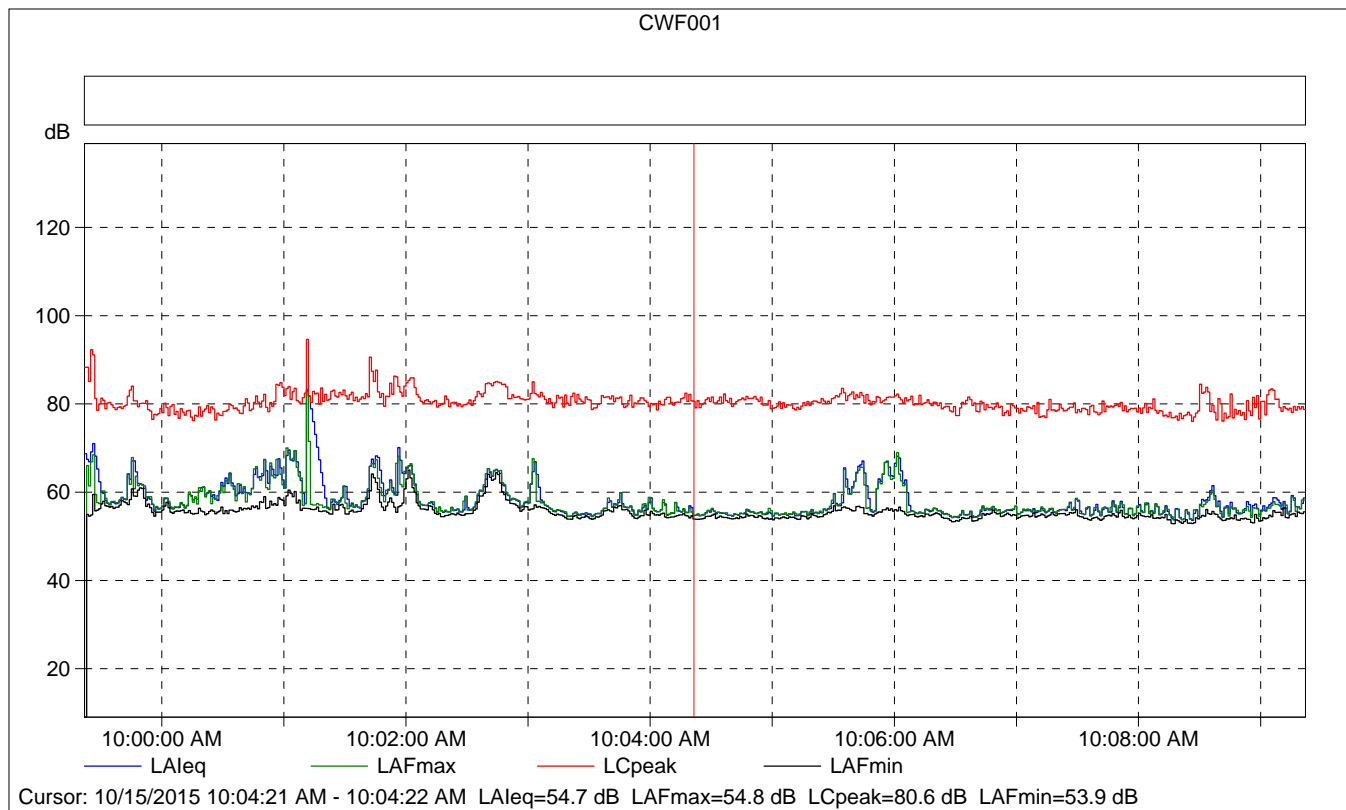
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		10/15/2015 08:57:49
Calibration Type:		External reference
Sensitivity:		66.8102875351906 mV/Pa

CWF001

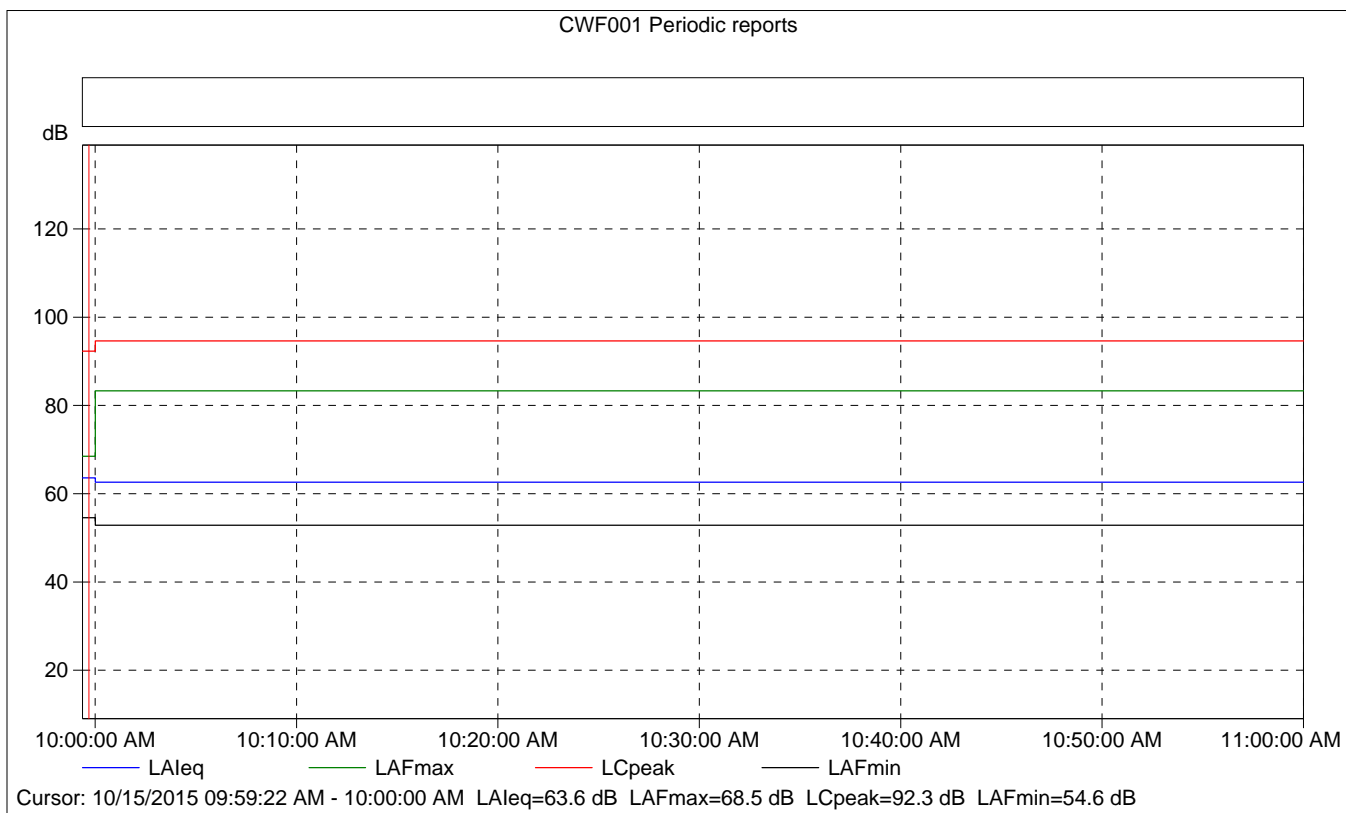
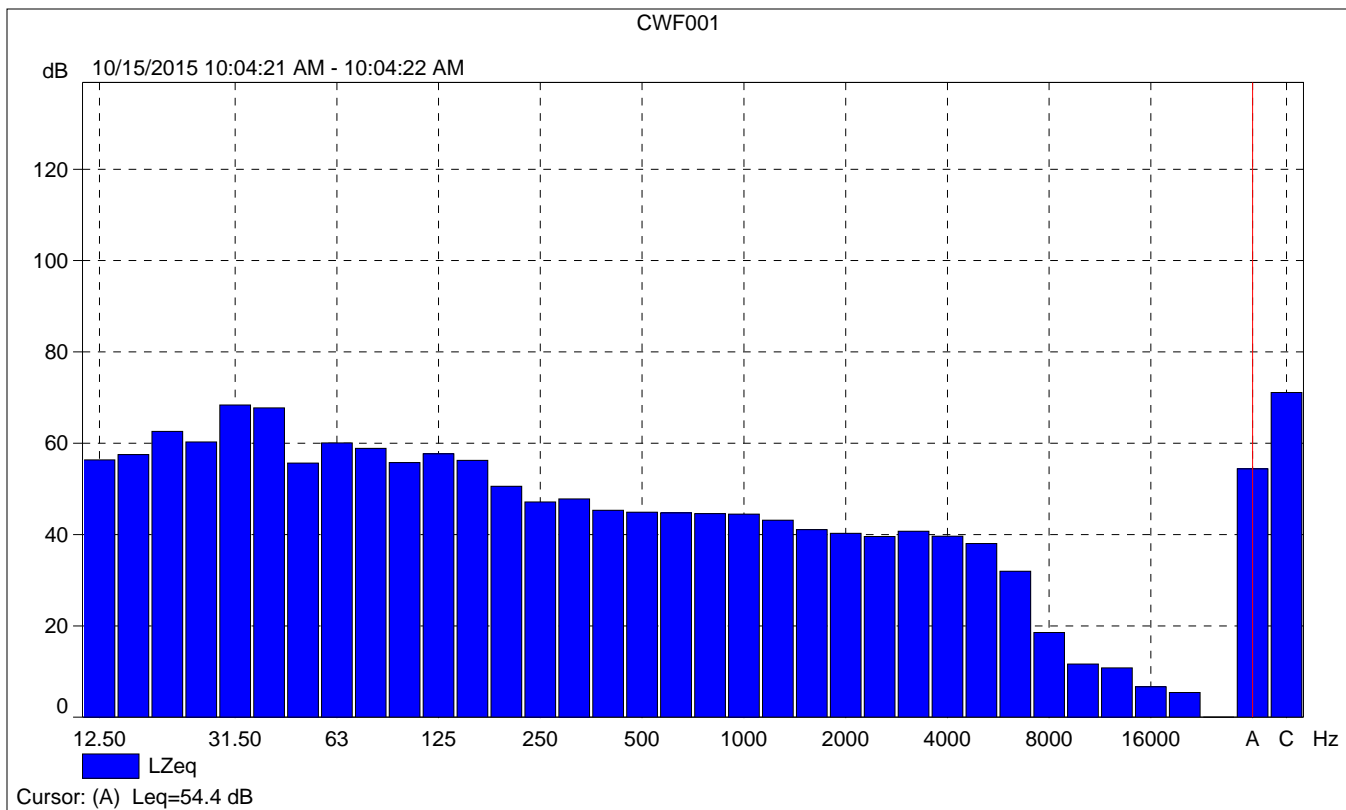
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	58.7	83.3	52.9
Time	09:59:22 AM	10:09:22 AM	0:10:00				
Date	10/15/2015	10/15/2015					





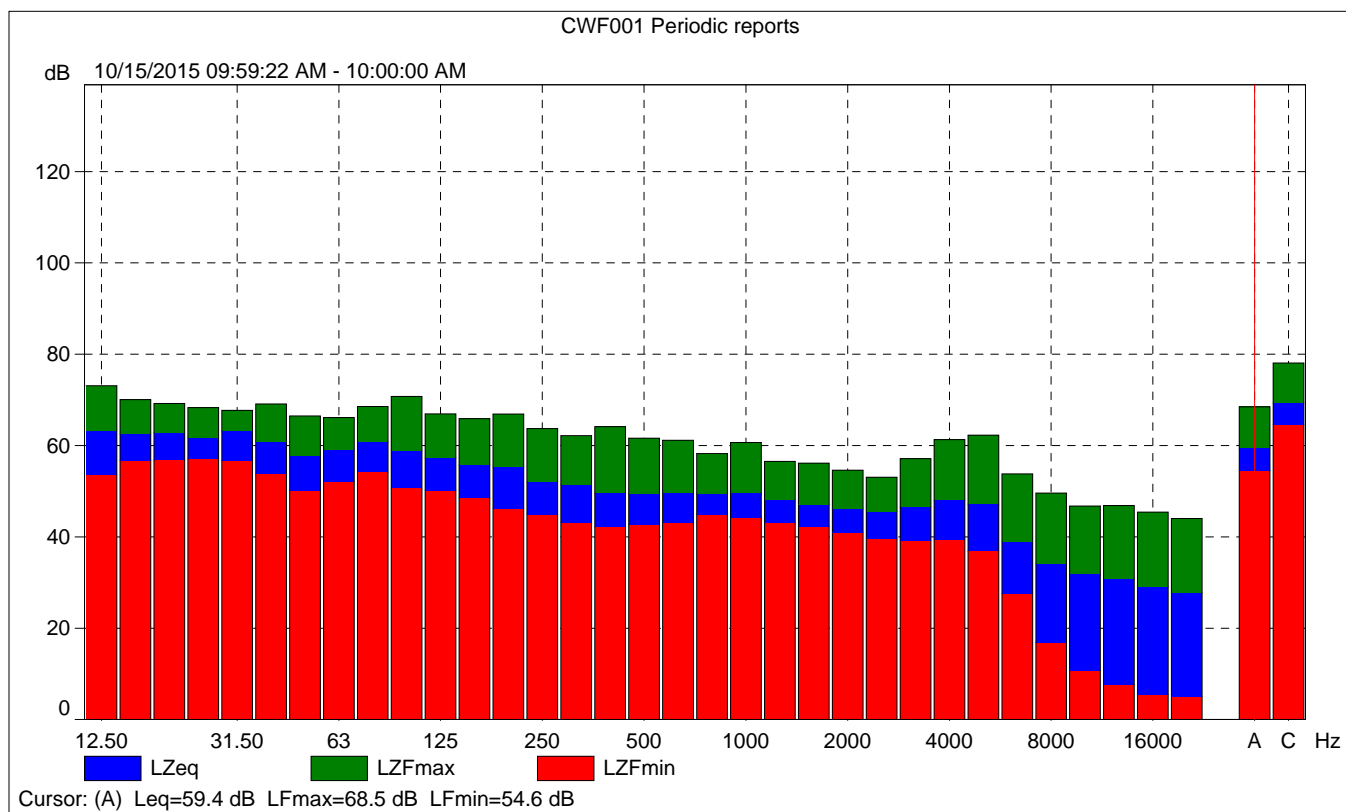
### CWF001

	Start time	Elapsed time	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			54.7	54.8	53.9
Time	10:04:21 AM	0:00:01			
Date	10/15/2015				



## CWF001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	63.6	68.5	54.6
Time	09:59:22 AM	0:00:38				
Date	10/15/2015					

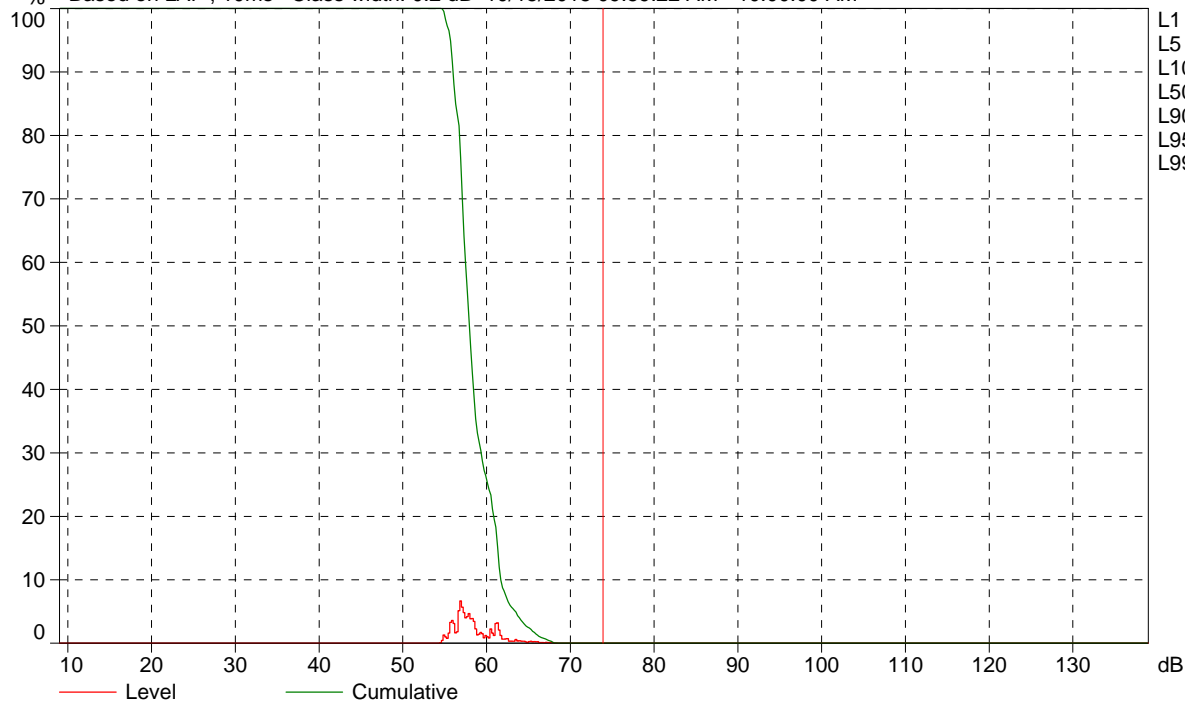






CWF001 Periodic reports

% Based on LAF, 10ms Class width: 0.2 dB 10/15/2015 09:59:22 AM - 10:00:00 AM



- L1 = 66.3 dB
- L5 = 63.3 dB
- L10 = 61.6 dB
- L50 = 57.8 dB
- L90 = 55.9 dB
- L95 = 55.6 dB
- L99 = 54.9 dB

Cursor: [73.8 ; 74.0] dB Level: 0.0% Cumulative: 0.0%

<b>Site Number:</b> 2			
<b>Recorded By:</b> Ryan Chiene			
<b>Job Number:</b>			
<b>Date:</b> 10/15/15			
<b>Time:</b> 10:18 a.m.			
<b>Location:</b> Vacant lot at corner of South Washington Avenue and East Dumas Street, near residential uses.			
<b>Source of Peak Noise:</b> Cars driving along South Washington Street, school bus driving by, birds chirping, dogs barking.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
61.5	45.2	85.9	98.1

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Overcast		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.0		76.7		29.92	

**Photo of Measurement Location**



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		10/15/2015 10:18:24
End Time:		10/15/2015 10:28:24
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.43

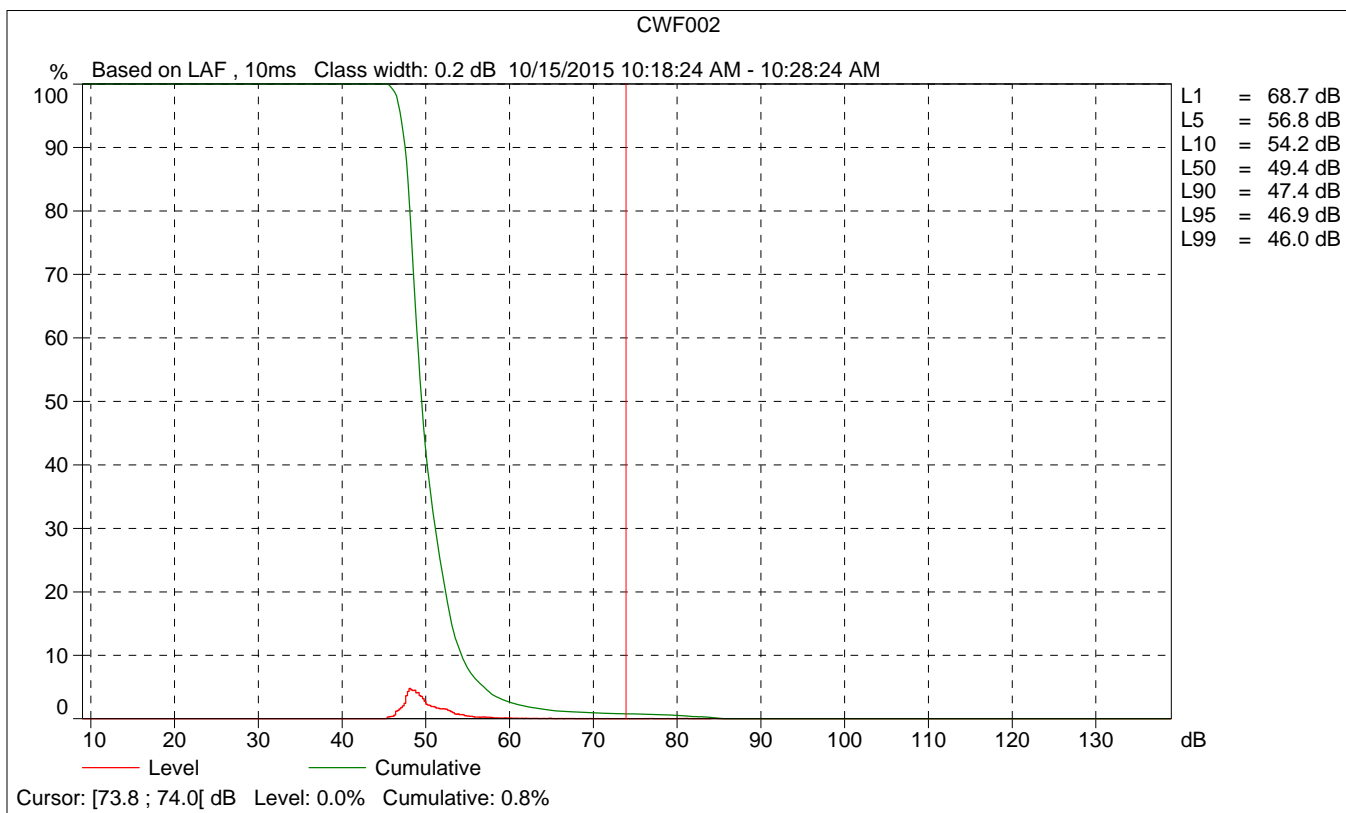
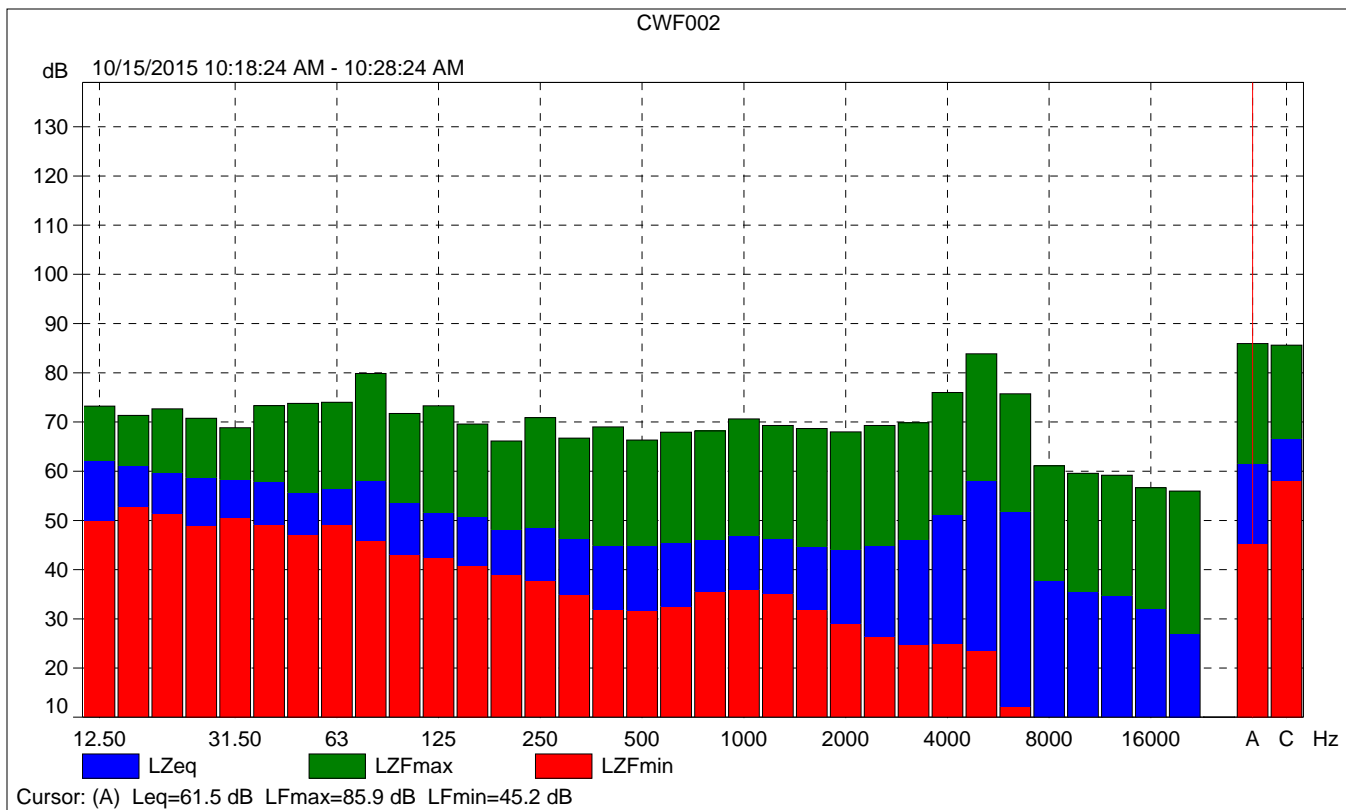
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

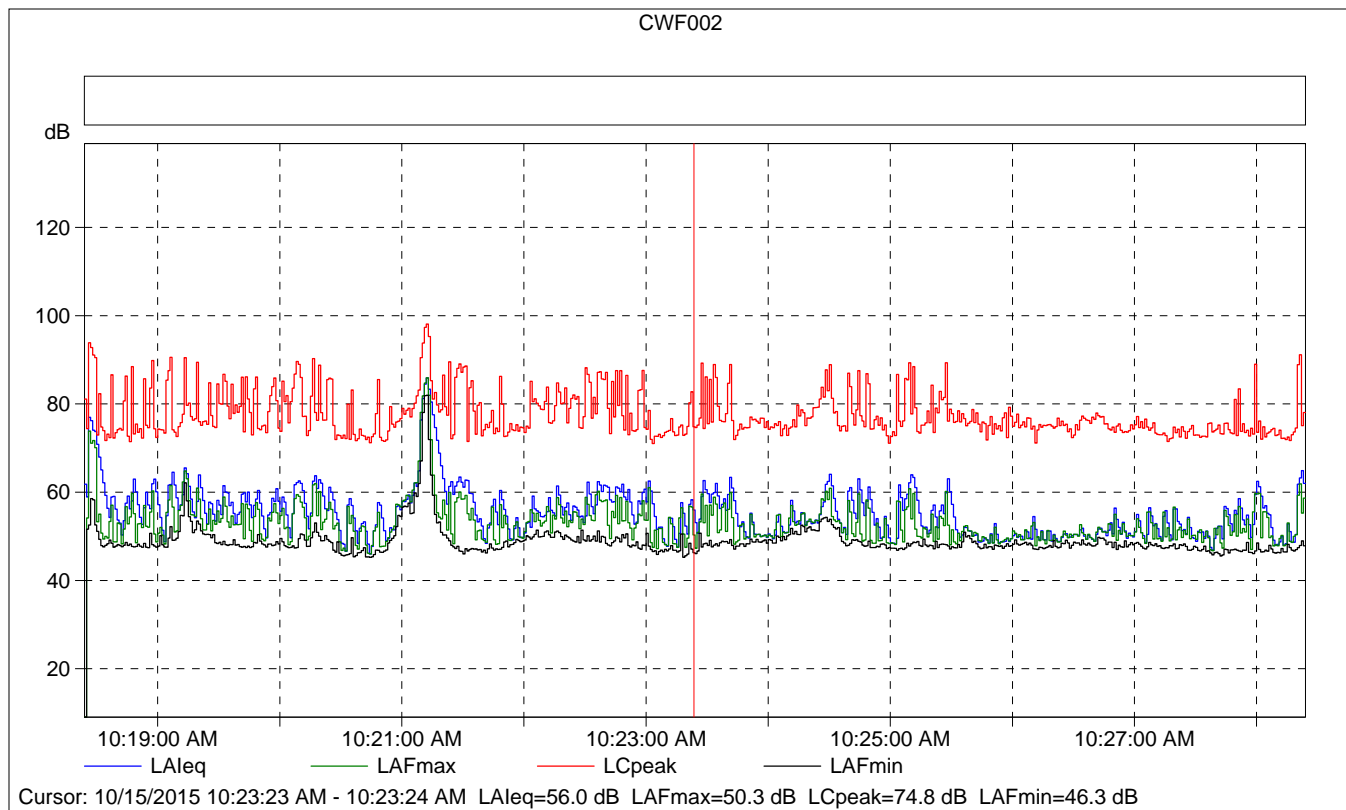
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		10/15/2015 08:57:49
Calibration Type:		External reference
Sensitivity:		66.8102875351906 mV/Pa

CWF002

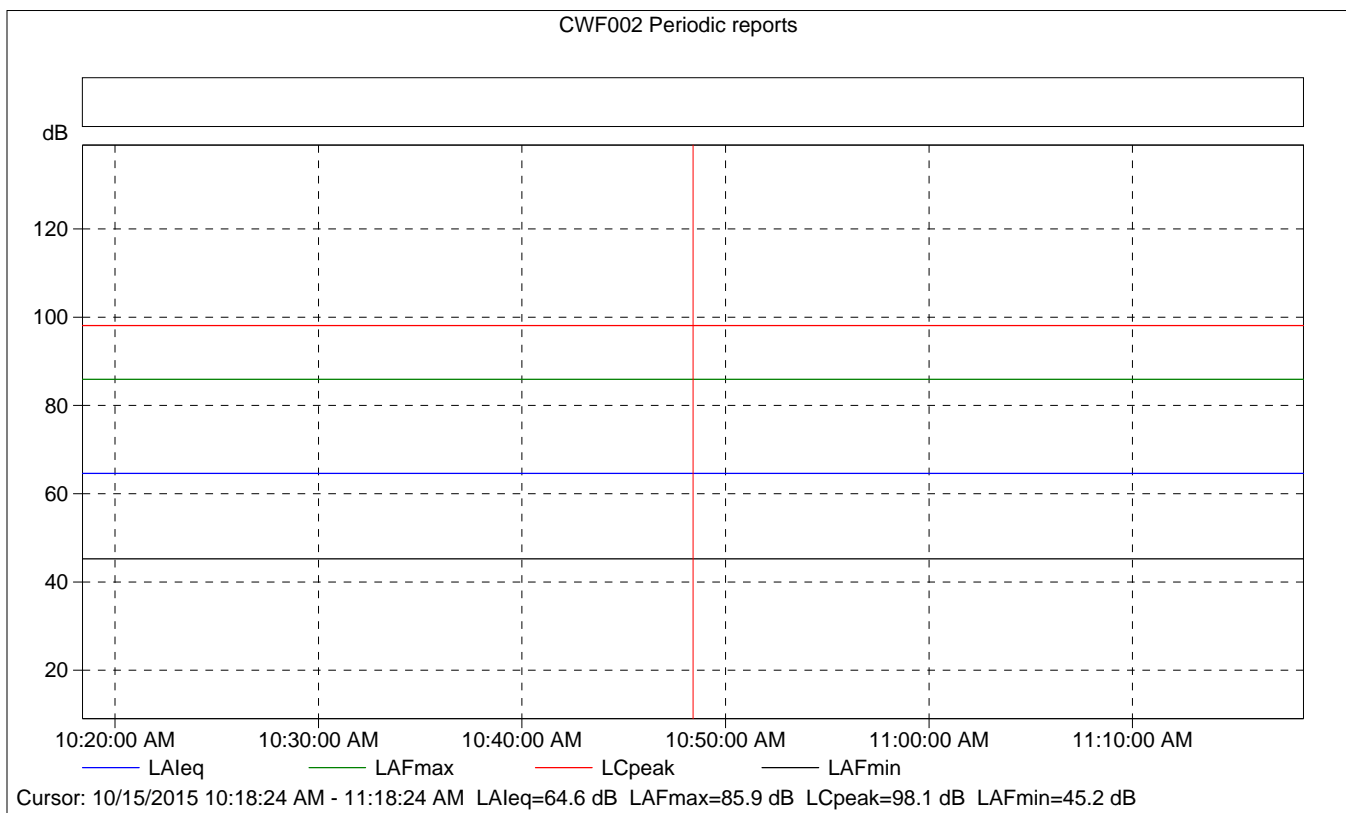
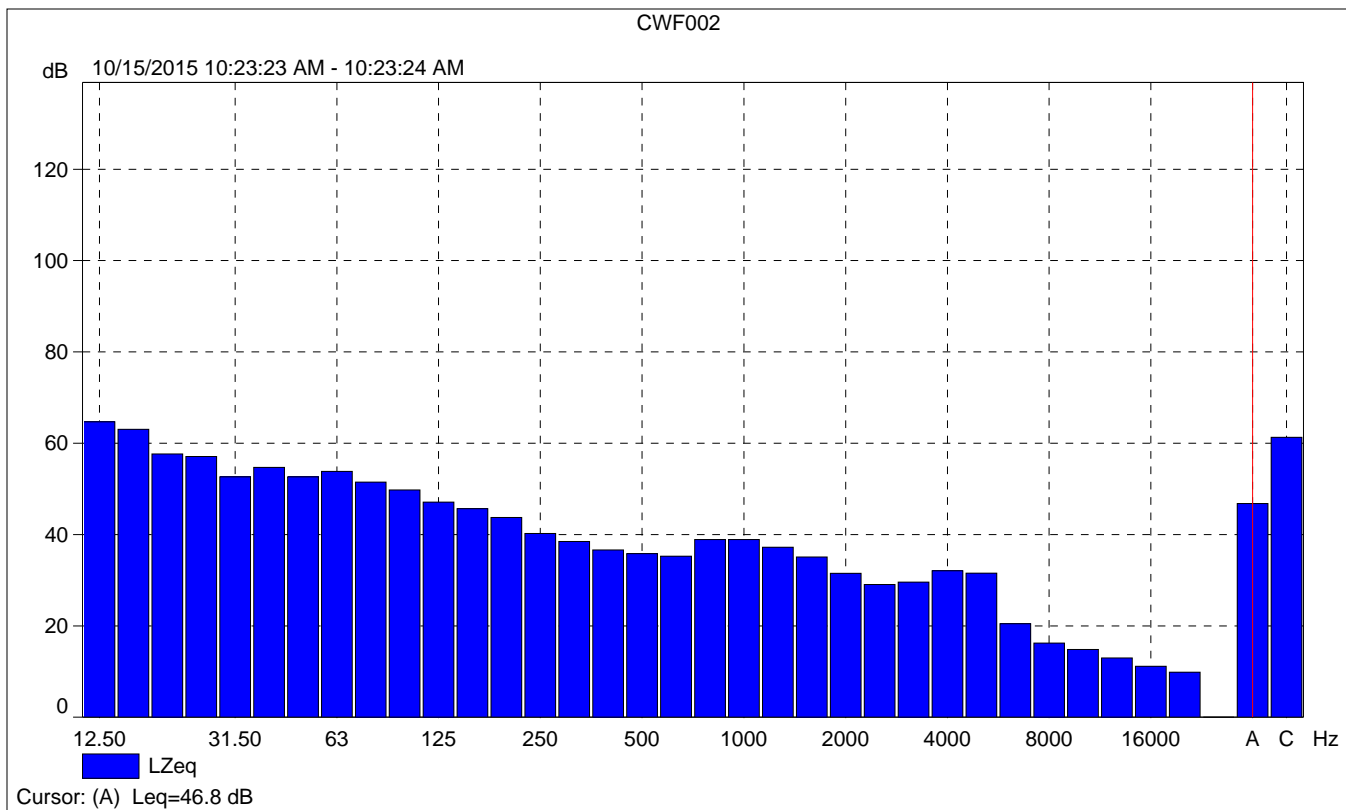
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	61.5	85.9	45.2
Time	10:18:24 AM	10:28:24 AM	0:10:00				
Date	10/15/2015	10/15/2015					





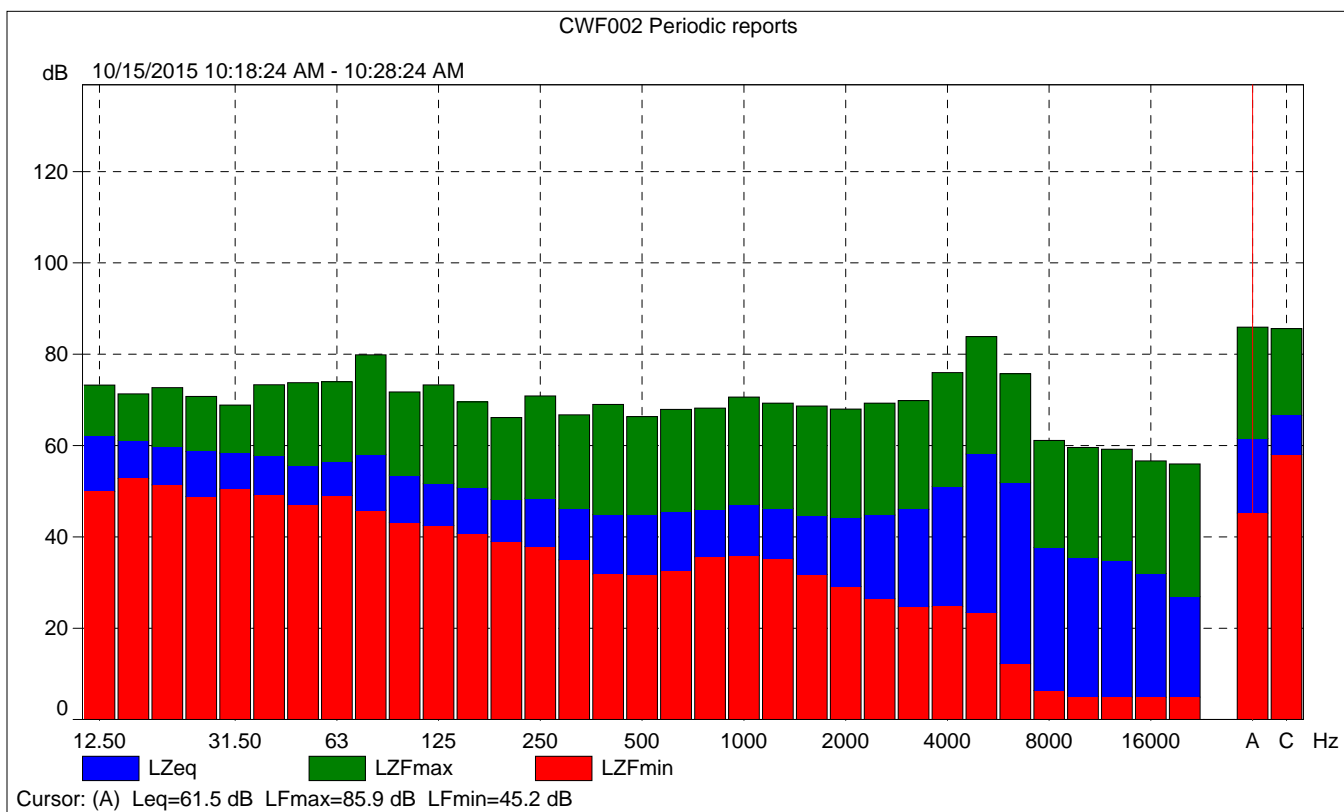
### CWF002

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			56.0	50.3	46.3
Time	10:23:23 AM	0:00:01			
Date	10/15/2015				



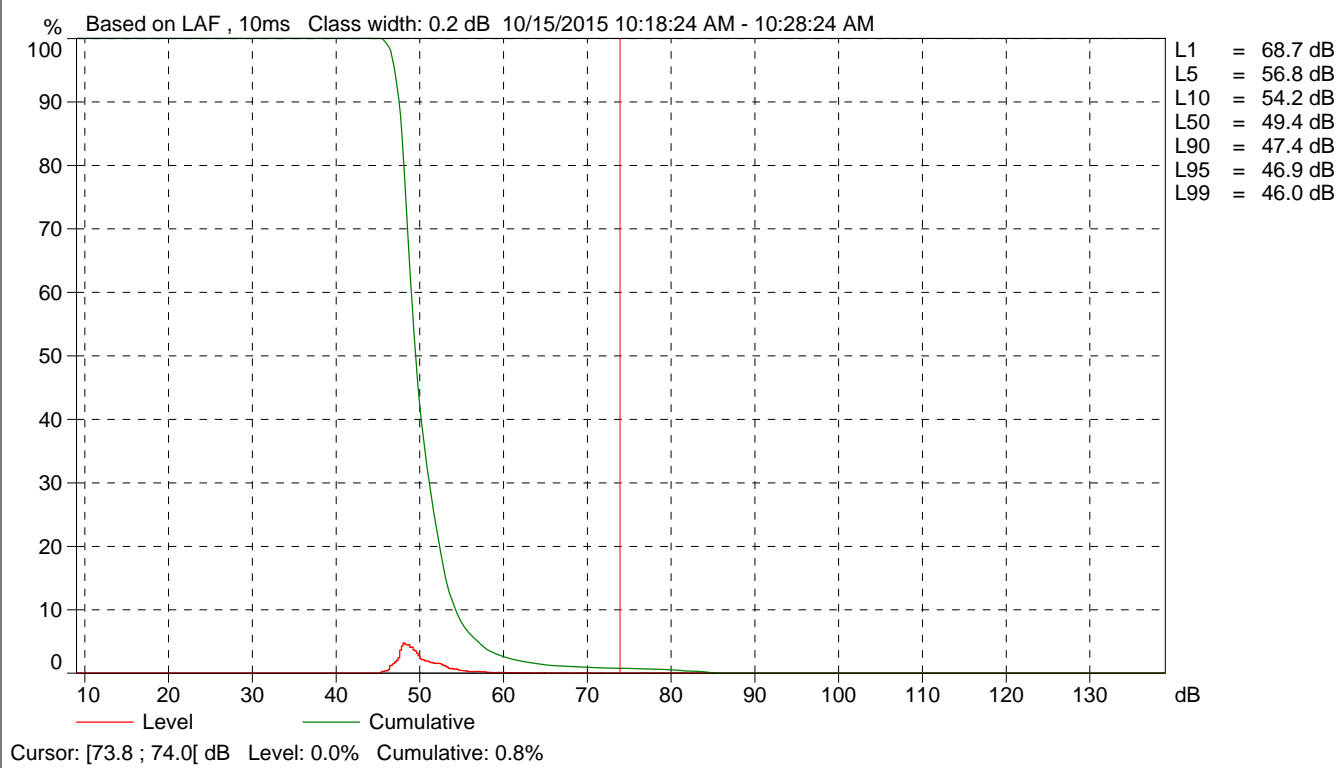
# CWF002 Periodic reports

	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	64.6	85.9	45.2
Time	10:18:24 AM	0:10:00				
Date	10/15/2015					





CWF002 Periodic reports





<b>Site Number:</b> 3			
<b>Recorded By:</b> Ryan Chiene			
<b>Job Number:</b>			
<b>Date:</b> 10/15/15			
<b>Time:</b> 10:51 a.m.			
<b>Location:</b> Open space/park near the Perris Hill Senior Center			
<b>Source of Peak Noise:</b> Cars driving along Valencia Avenue and East 21 <sup>st</sup> Street, men talking, birds chirping.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
56.9	48.0	71.6	93.6

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Overcast		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.0		74.0		29.92	

**Photo of Measurement Location**



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		10/15/2015 10:51:33
End Time:		10/15/2015 11:01:33
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.43

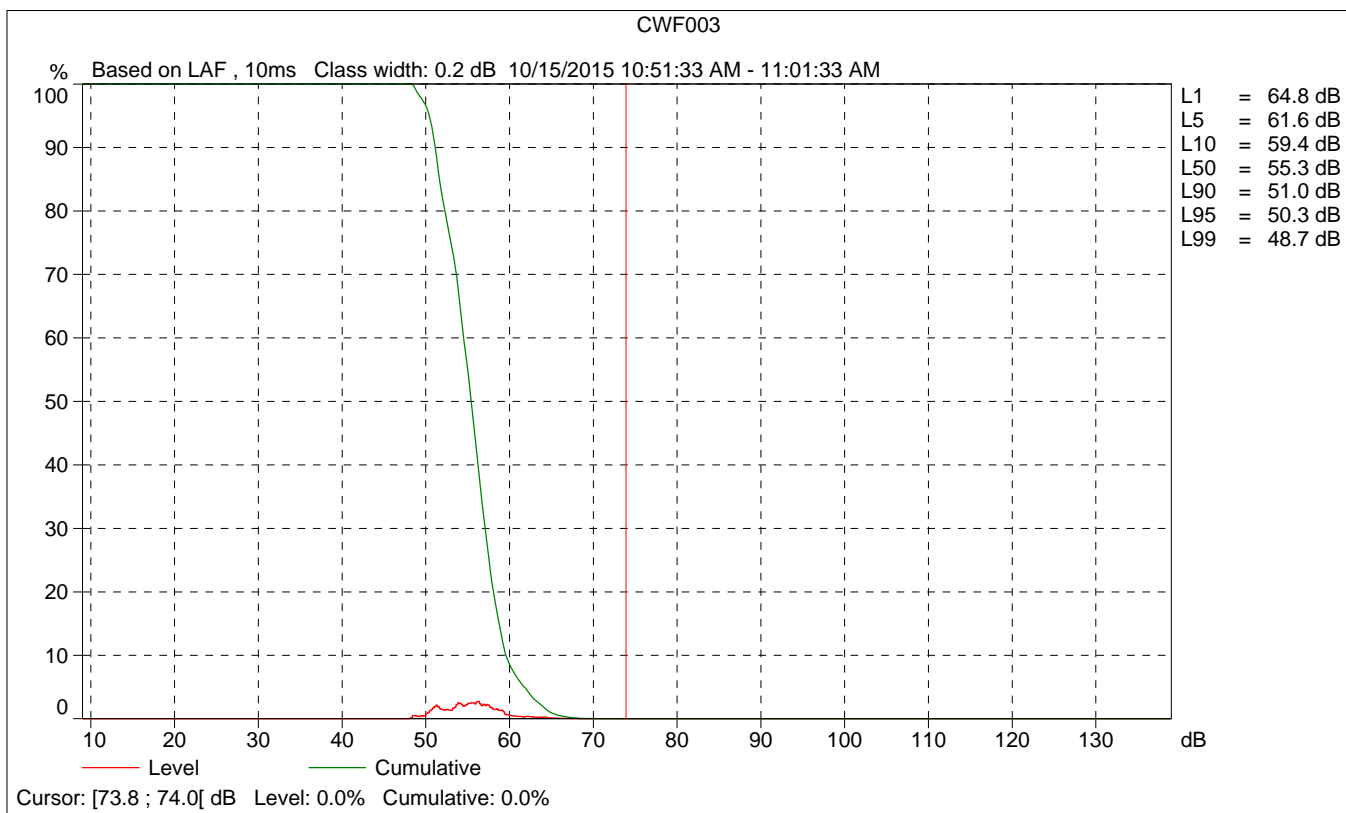
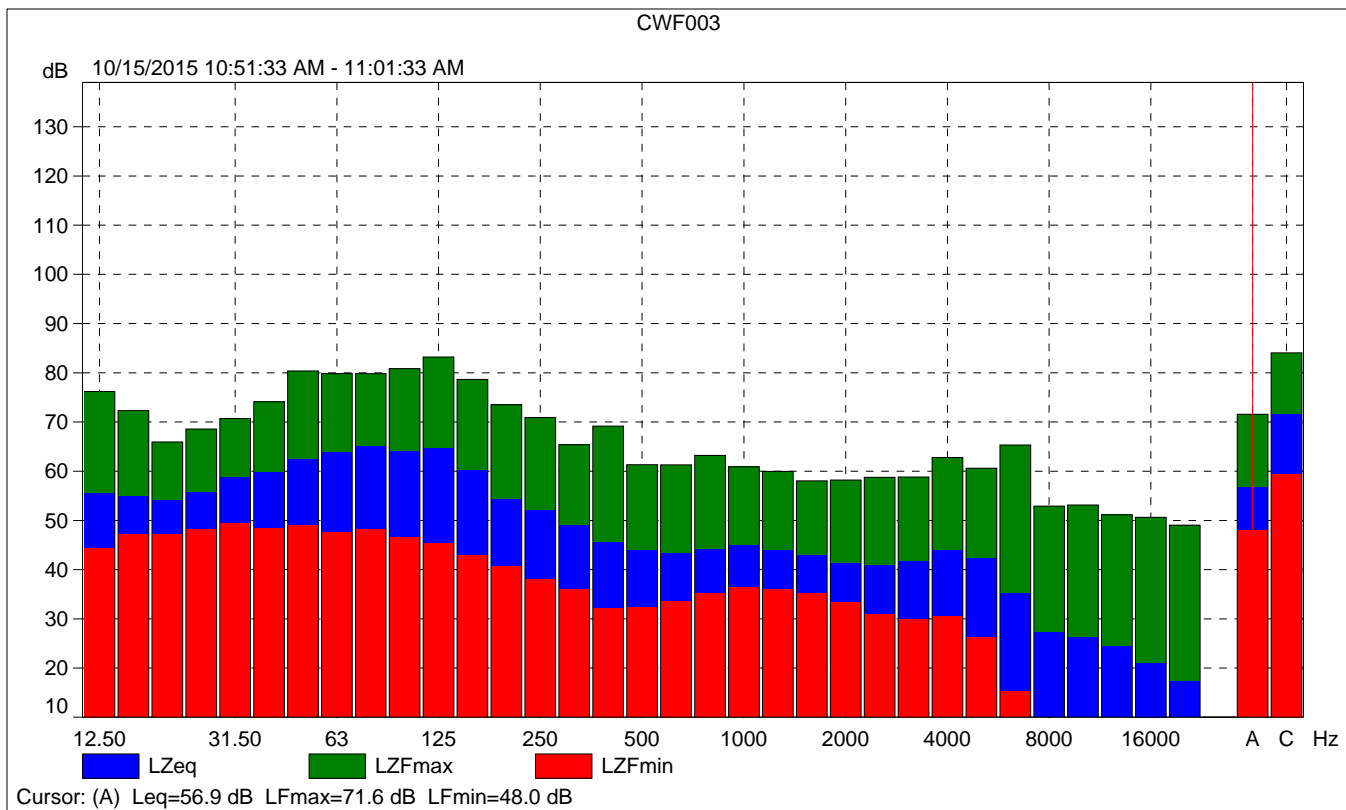
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

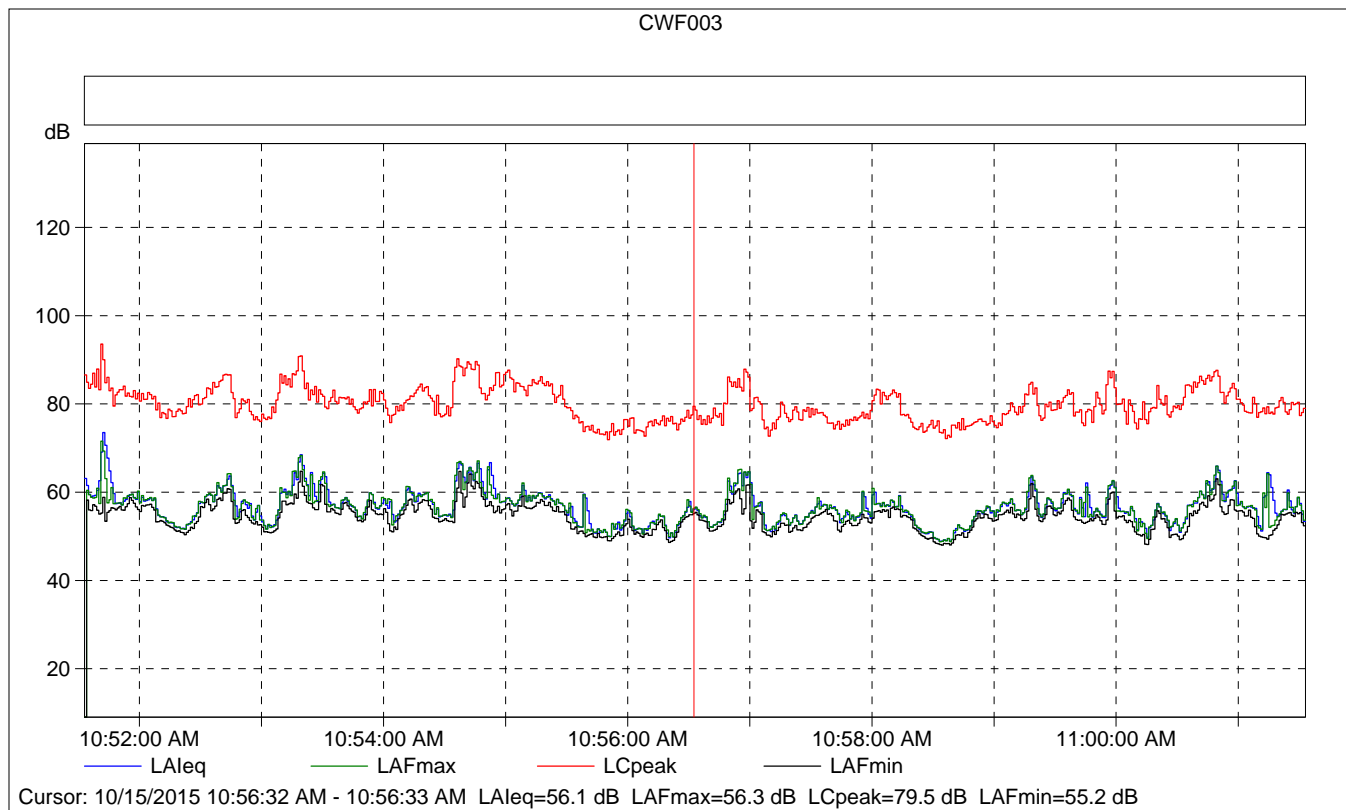
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		10/15/2015 08:57:49
Calibration Type:		External reference
Sensitivity:		66.8102875351906 mV/Pa

CWF003

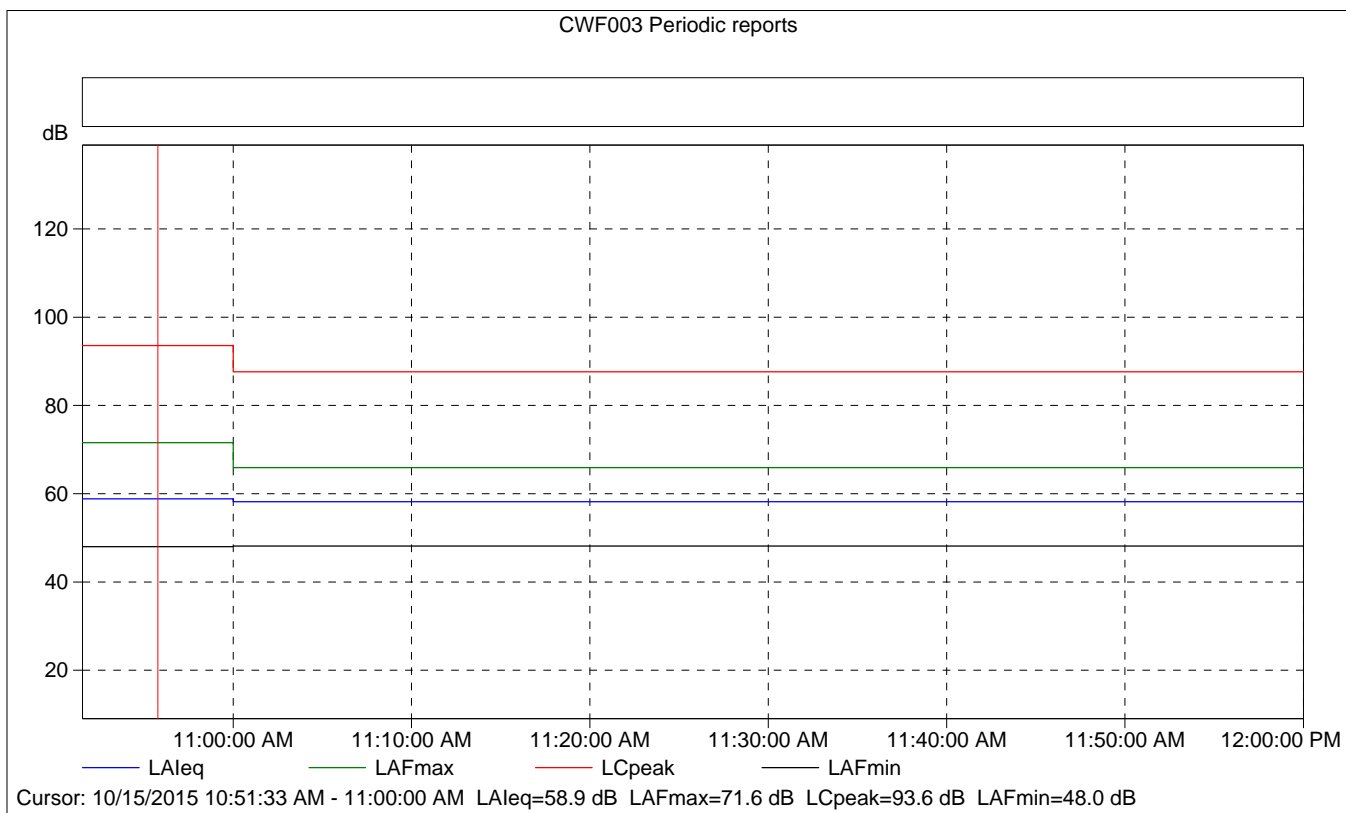
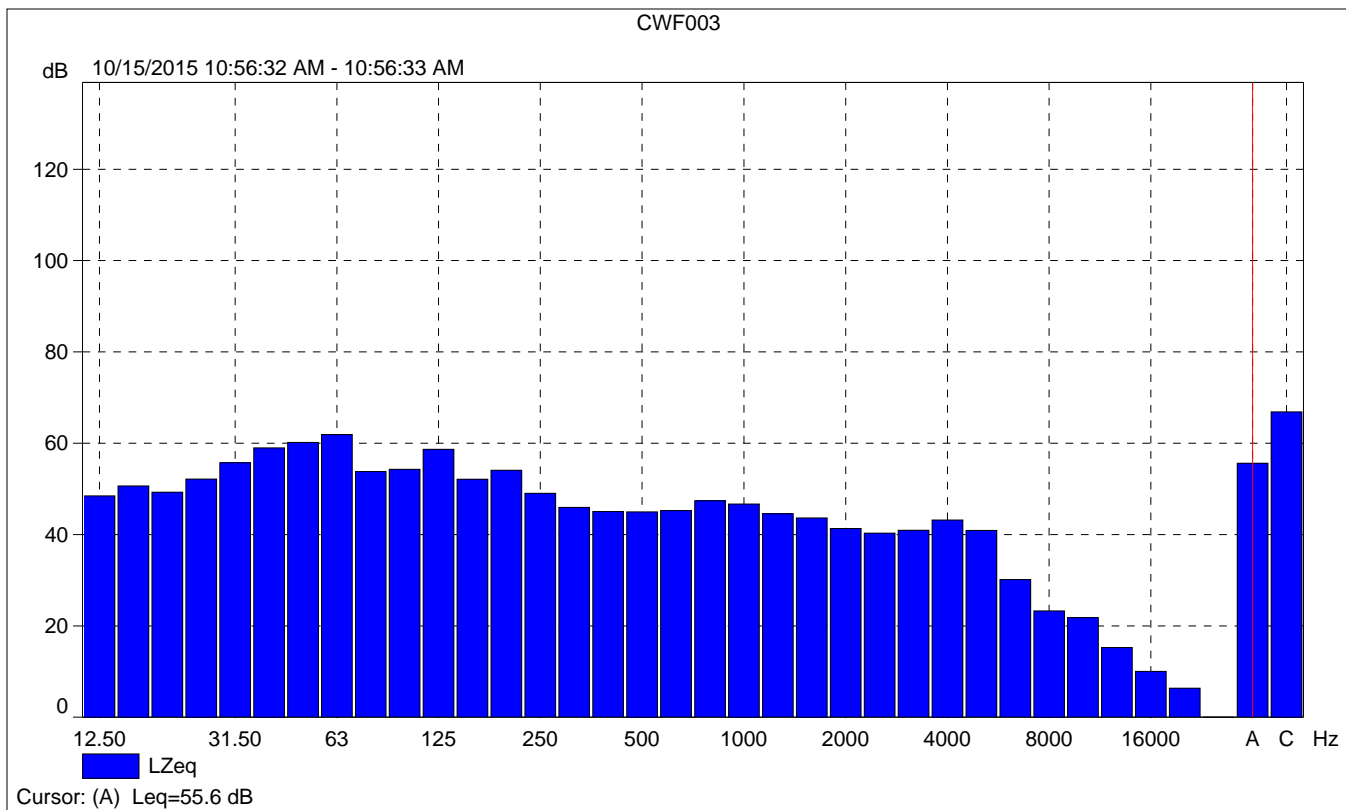
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	56.9	71.6	48.0
Time	10:51:33 AM	11:01:33 AM	0:10:00				
Date	10/15/2015	10/15/2015					





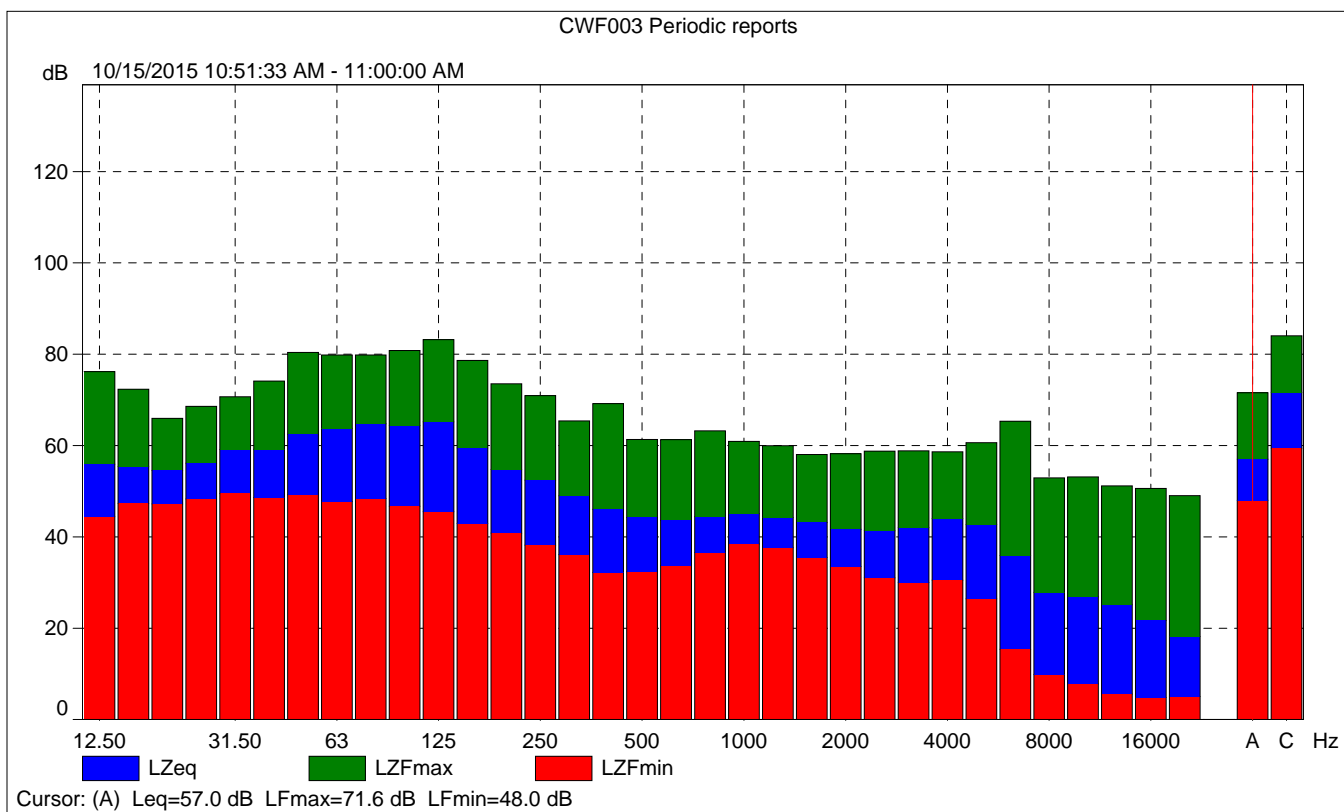
### CWF003

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			56.1	56.3	55.2
Time	10:56:32 AM	0:00:01			
Date	10/15/2015				



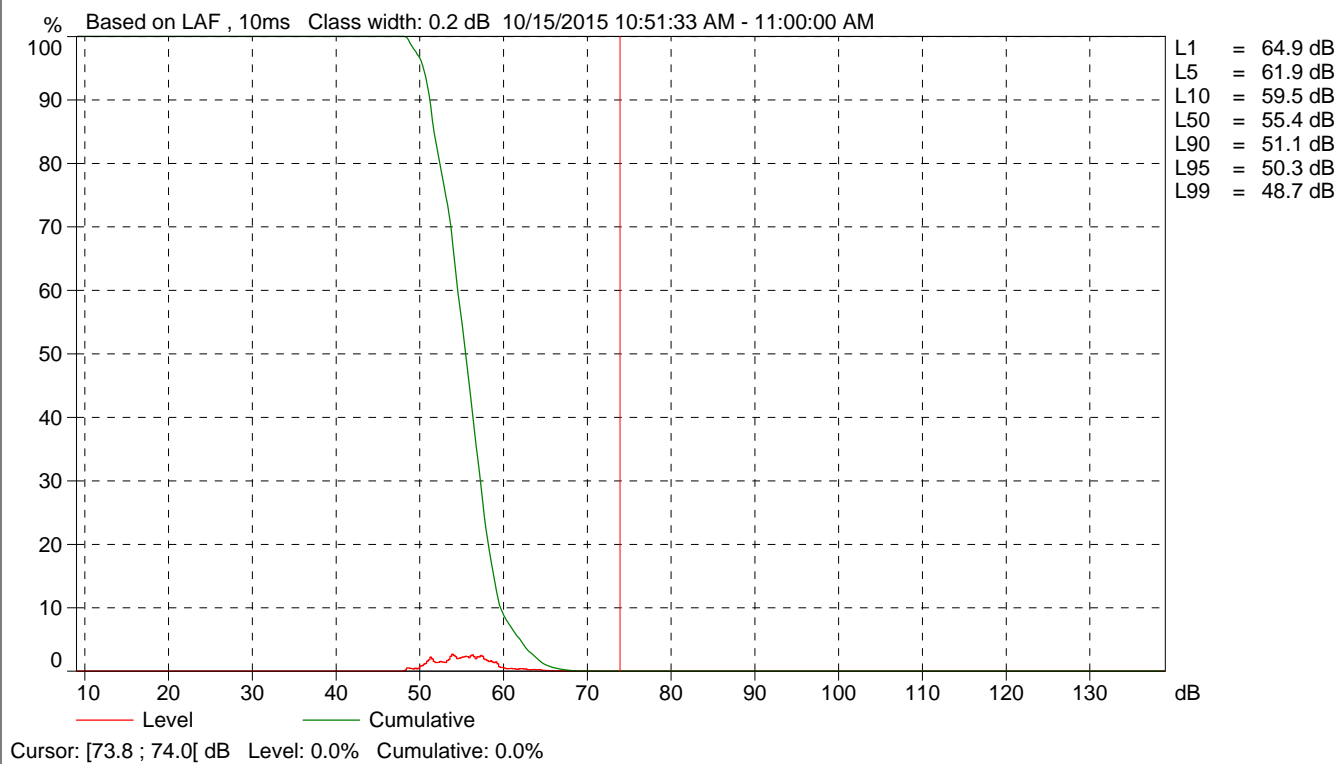
### CWF003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	58.9	71.6	48.0
Time	10:51:33 AM	0:08:27				
Date	10/15/2015					





CWF003 Periodic reports



<b>Site Number:</b> 4			
<b>Recorded By:</b> Ryan Chiene			
<b>Job Number:</b>			
<b>Date:</b> 10/15/15			
<b>Time:</b> 11:13 a.m.			
<b>Location:</b> At the corner of Sonora Street and San Gabriel Street, within residential neighborhood.			
<b>Source of Peak Noise:</b> Cars driving along Sonora Street/San Gabriel Street, traffic on East 40 <sup>th</sup> Street, ambulance sirens, birds chirping.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
48.9	36.7	74.7	94.7

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	11/18/2014	
	Microphone	Brüel & Kjær	4189	2543364	11/18/2014	
	Preamp	Brüel & Kjær	ZC 0032	4265	11/18/2014	
	Calibrator	Brüel & Kjær	4231	2545667	11/18/2014	
Weather Data						
Est.	Duration: 10 minutes			Sky: Overcast		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	1.8		78.4		29.92	

**Photo of Measurement Location**





2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		10/15/2015 11:13:26
End Time:		10/15/2015 11:26:09
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.43

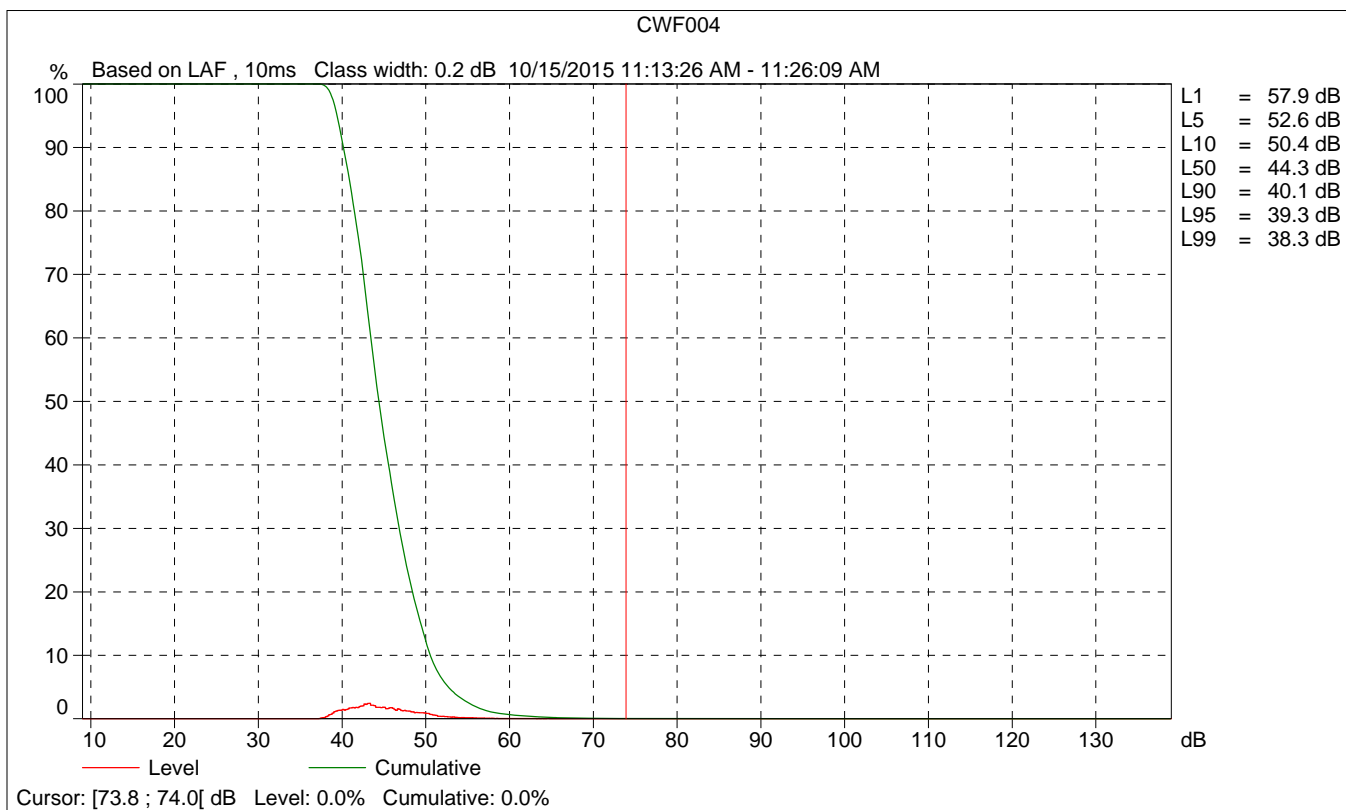
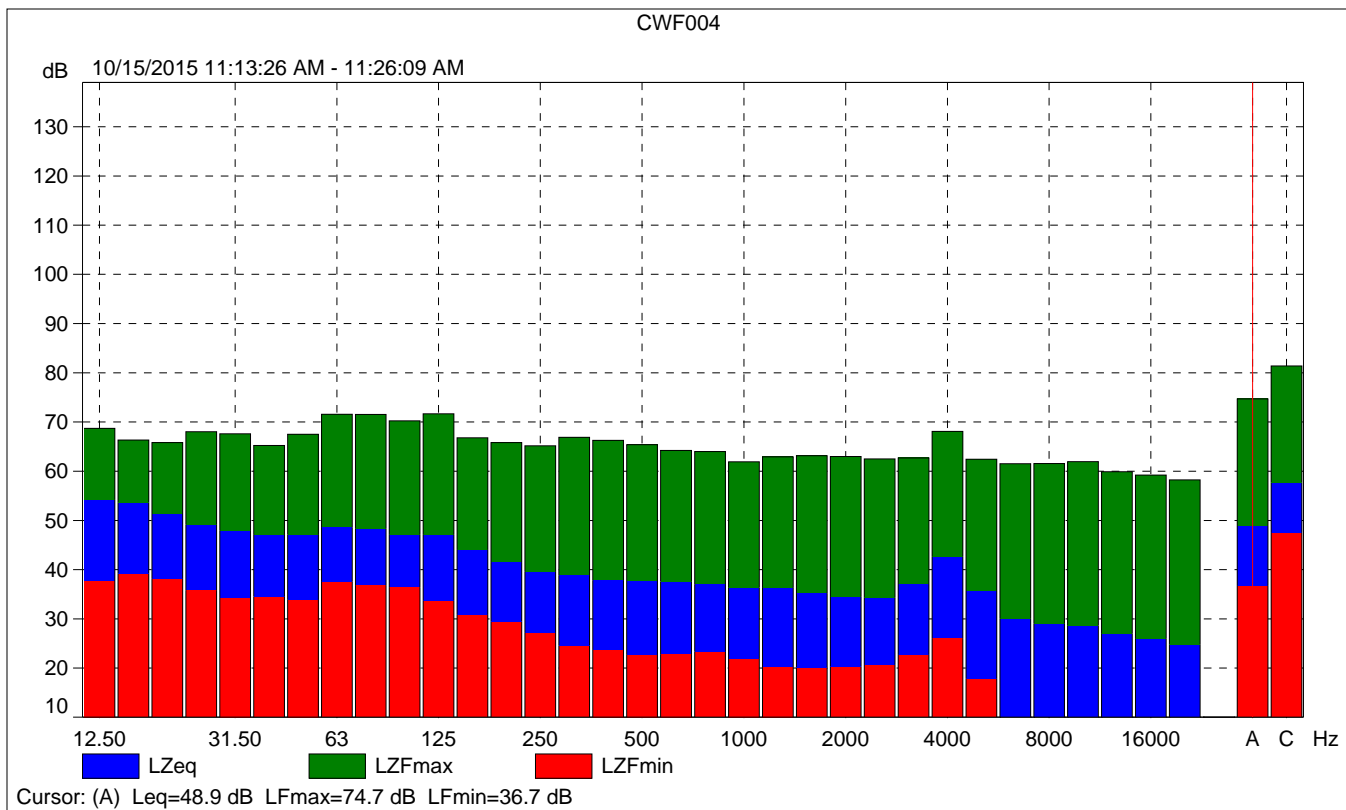
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

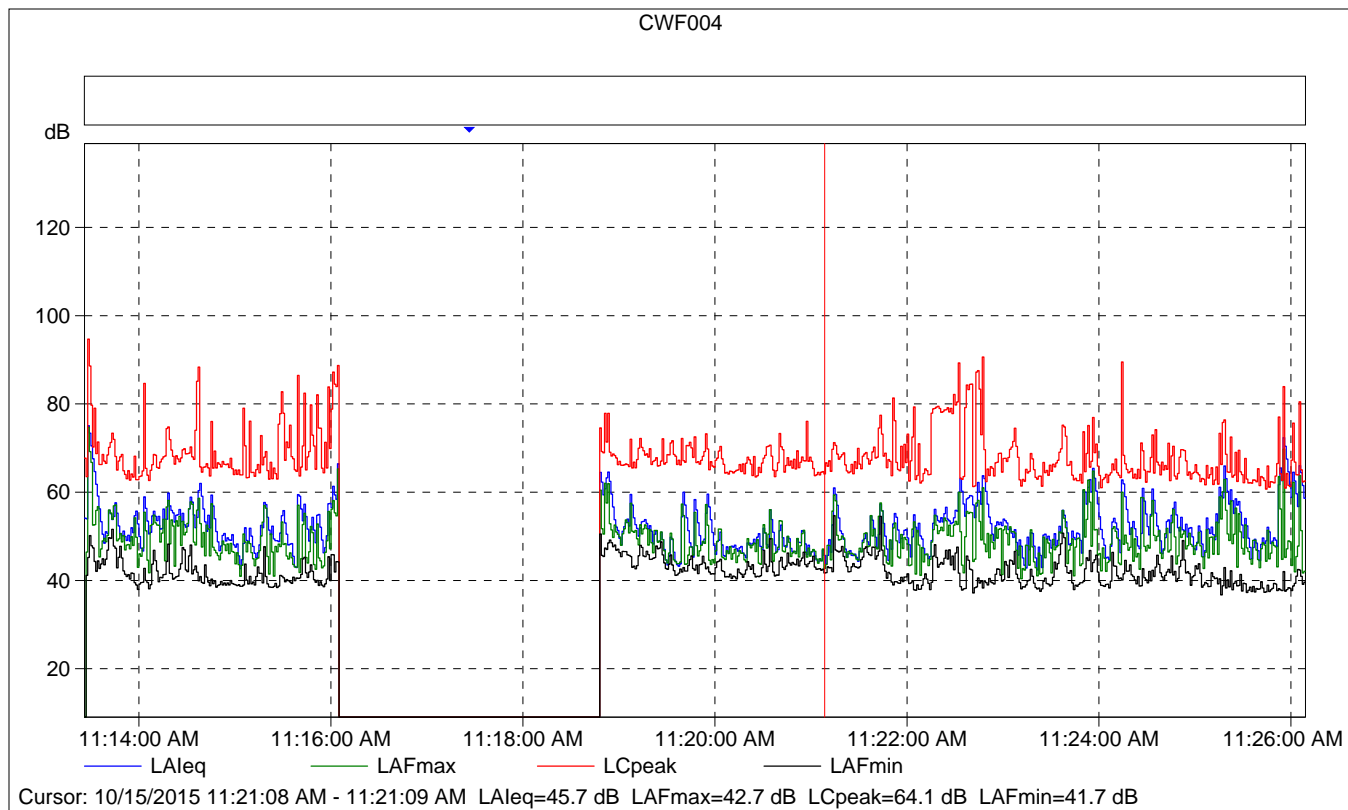
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		10/15/2015 08:57:49
Calibration Type:		External reference
Sensitivity:		66.8102875351906 mV/Pa

CWF004

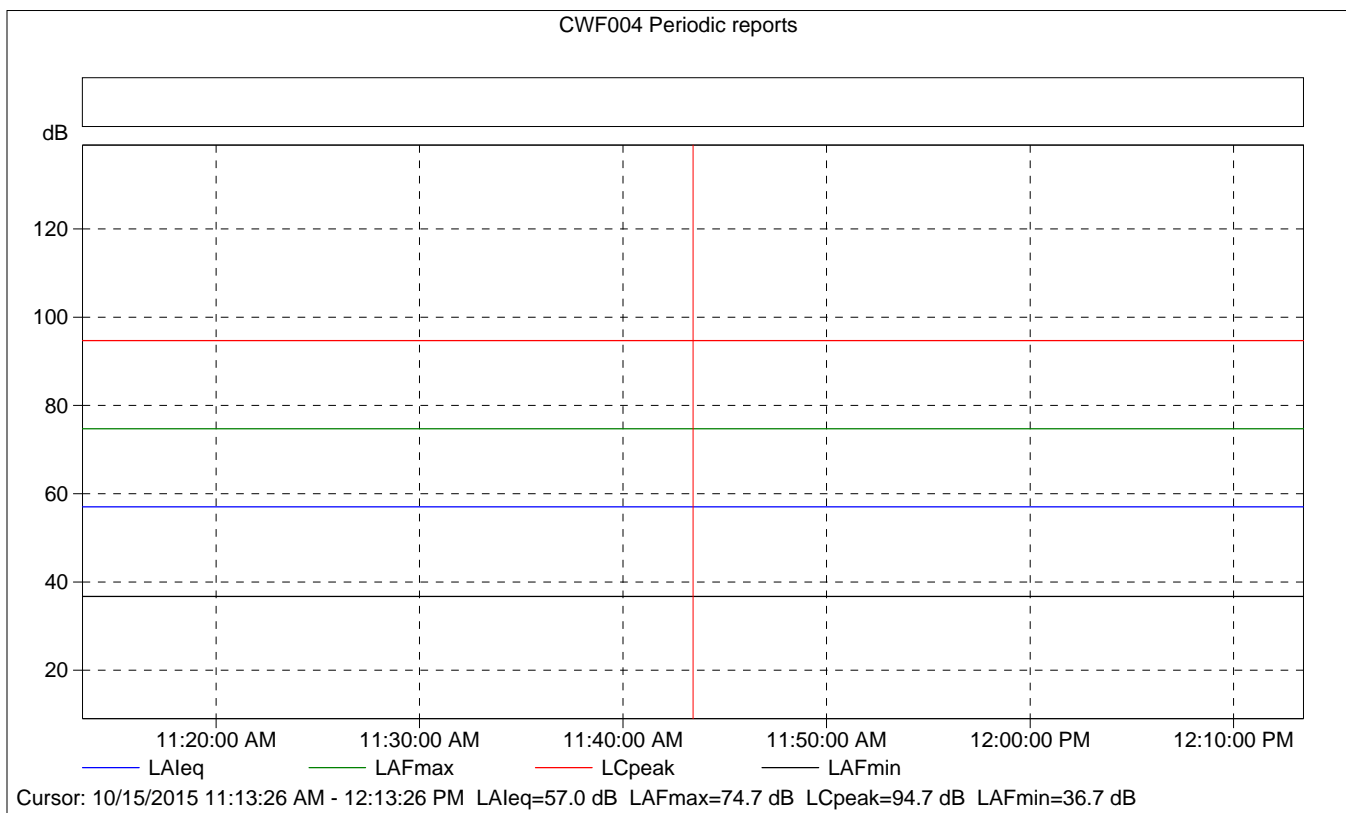
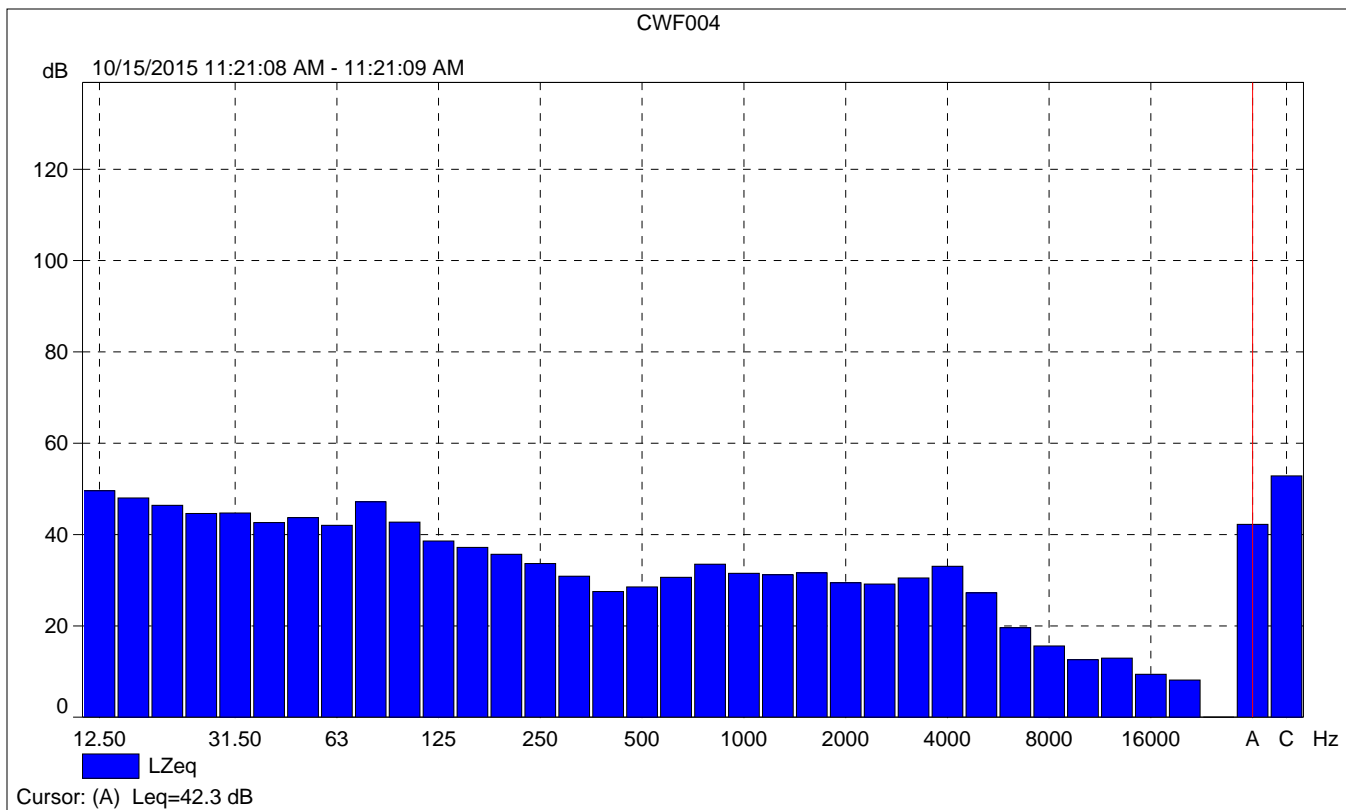
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	48.9	74.7	36.7
Time	11:13:26 AM	11:26:09 AM	0:10:00				
Date	10/15/2015	10/15/2015					





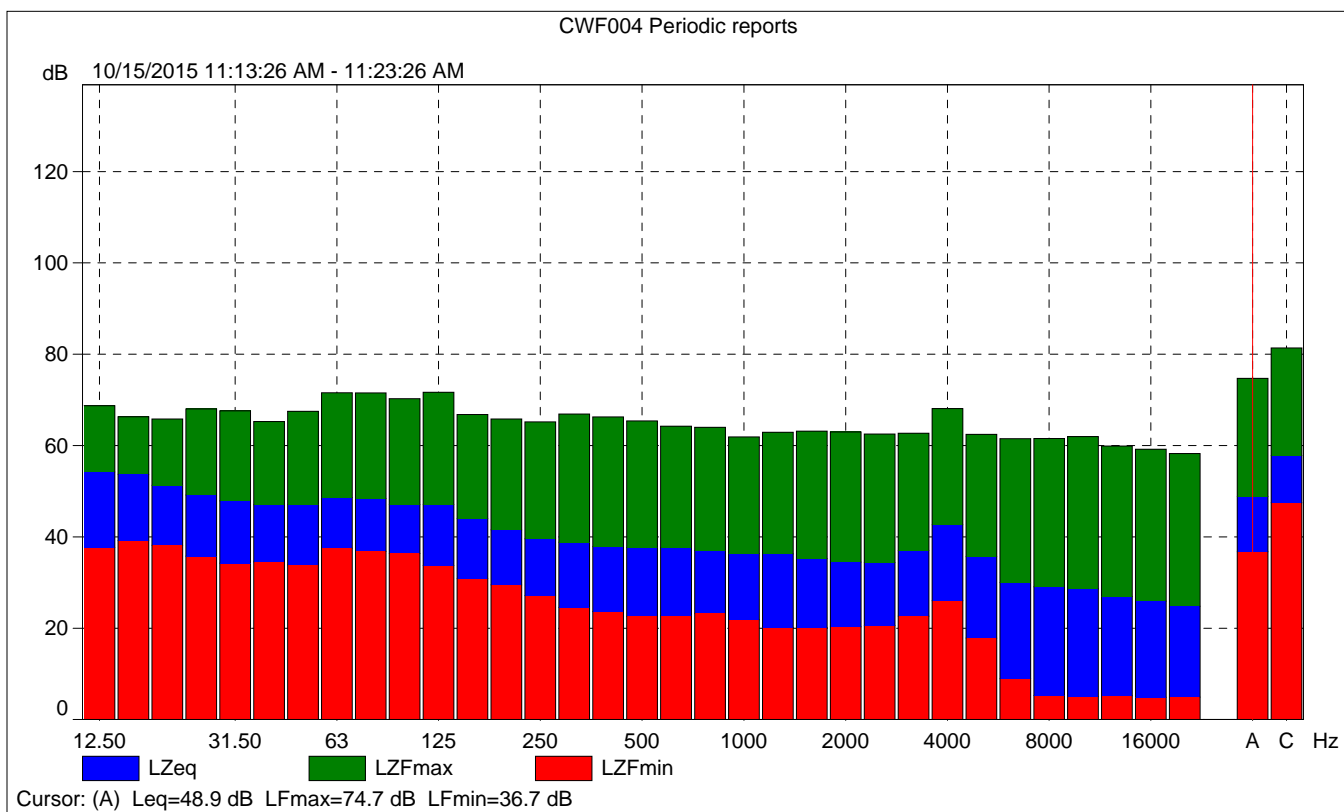
### CWF004

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			45.7	42.7	41.7
Time	11:21:08 AM	0:00:01			
Date	10/15/2015				



### CWF004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	57.0	74.7	36.7
Time	11:13:26 AM	0:10:00				
Date	10/15/2015					





CWF004 Periodic reports

