



11.6 Noise Data

Site Number: 1			
Recorded By: Eddie Torres			
Job Number: 151373			
Date: January 12, 2016			
Time: 1:54 pm			
Location: Mammoth Creek Park West, just east of La Vista Blanc Condominiums			
Source of Peak Noise: Parking lot activities from the adjacent condominiums			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
45.3	27.4	69.5	64.6

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	1/4/2016	
	Microphone	Brüel & Kjær	4189	2543364	1/4/2016	
	Preamp	Brüel & Kjær	ZC 0032	4265	1/4/2016	
	Calibrator	Brüel & Kjær	4231	2545667	1/4/2016	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀ Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.3		41.0		30.25	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		01/12/2016 13:54:50
End Time:		01/12/2016 14:04:50
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.75

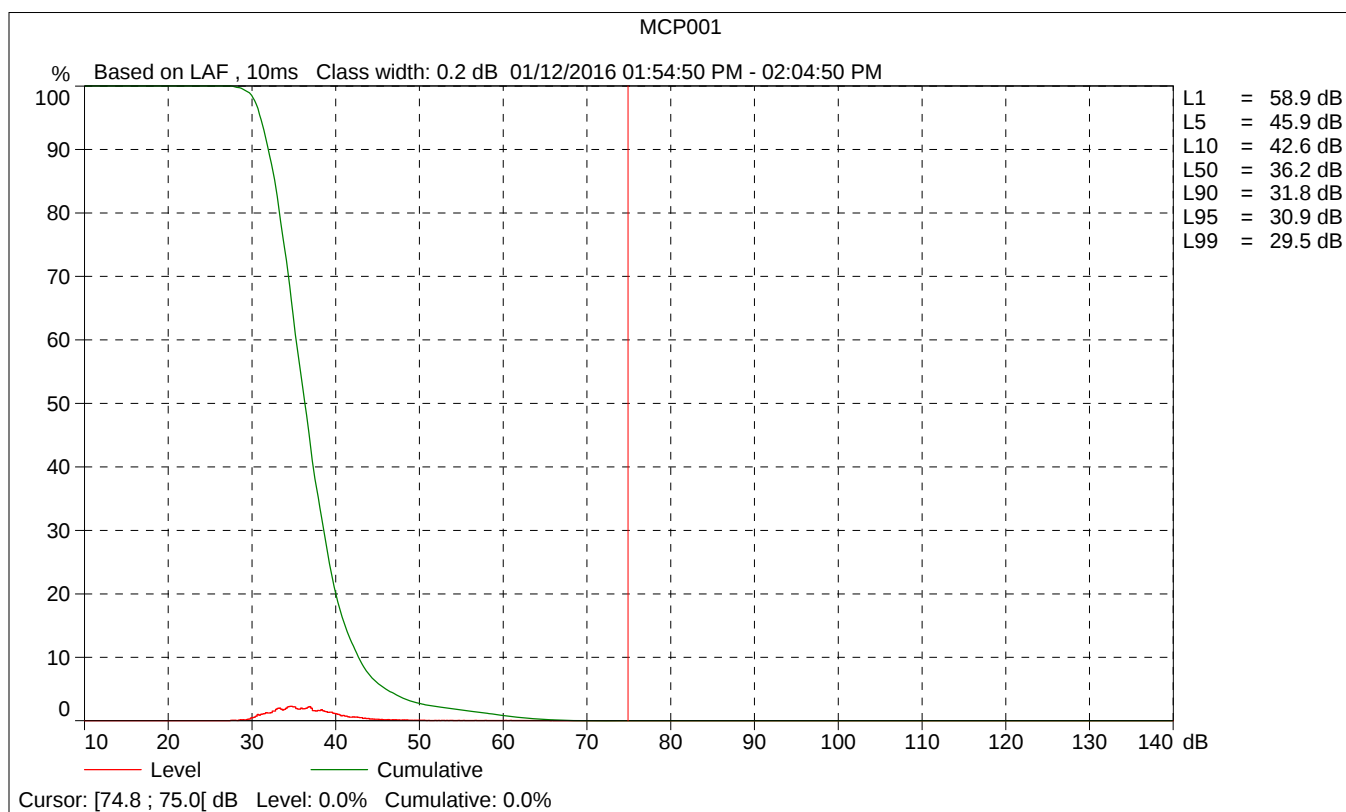
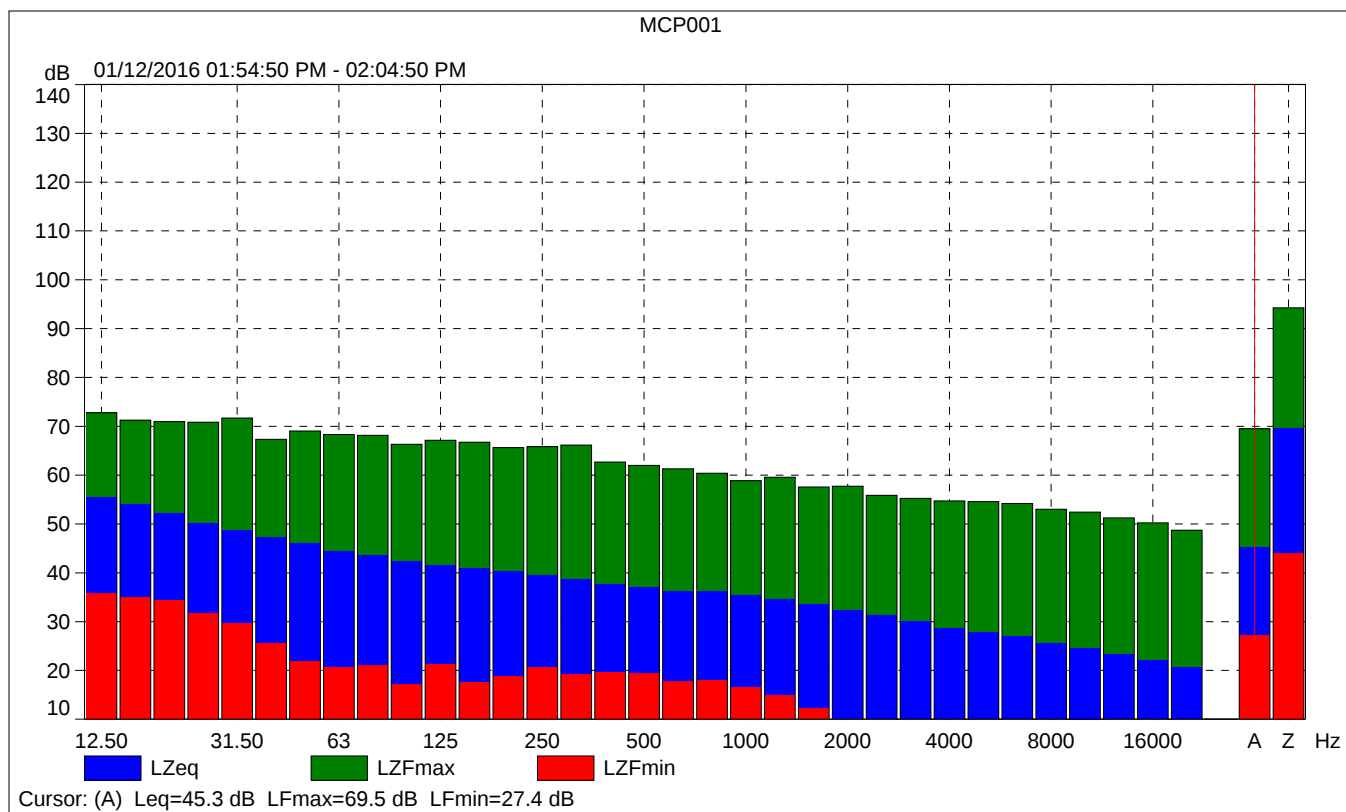
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

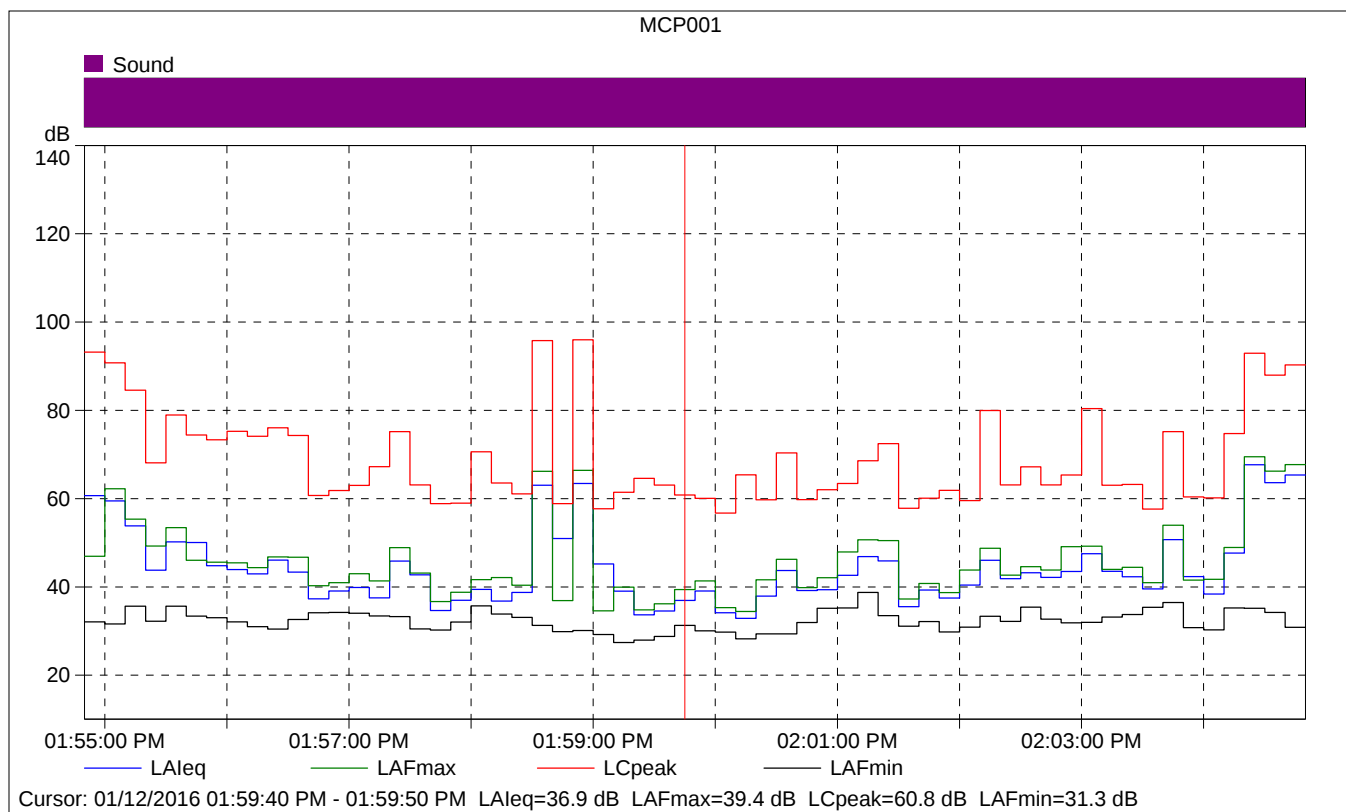
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		01/08/2016 16:38:05
Calibration Type:		External reference
Sensitivity:		64.3964111804962 mV/Pa

MCP001

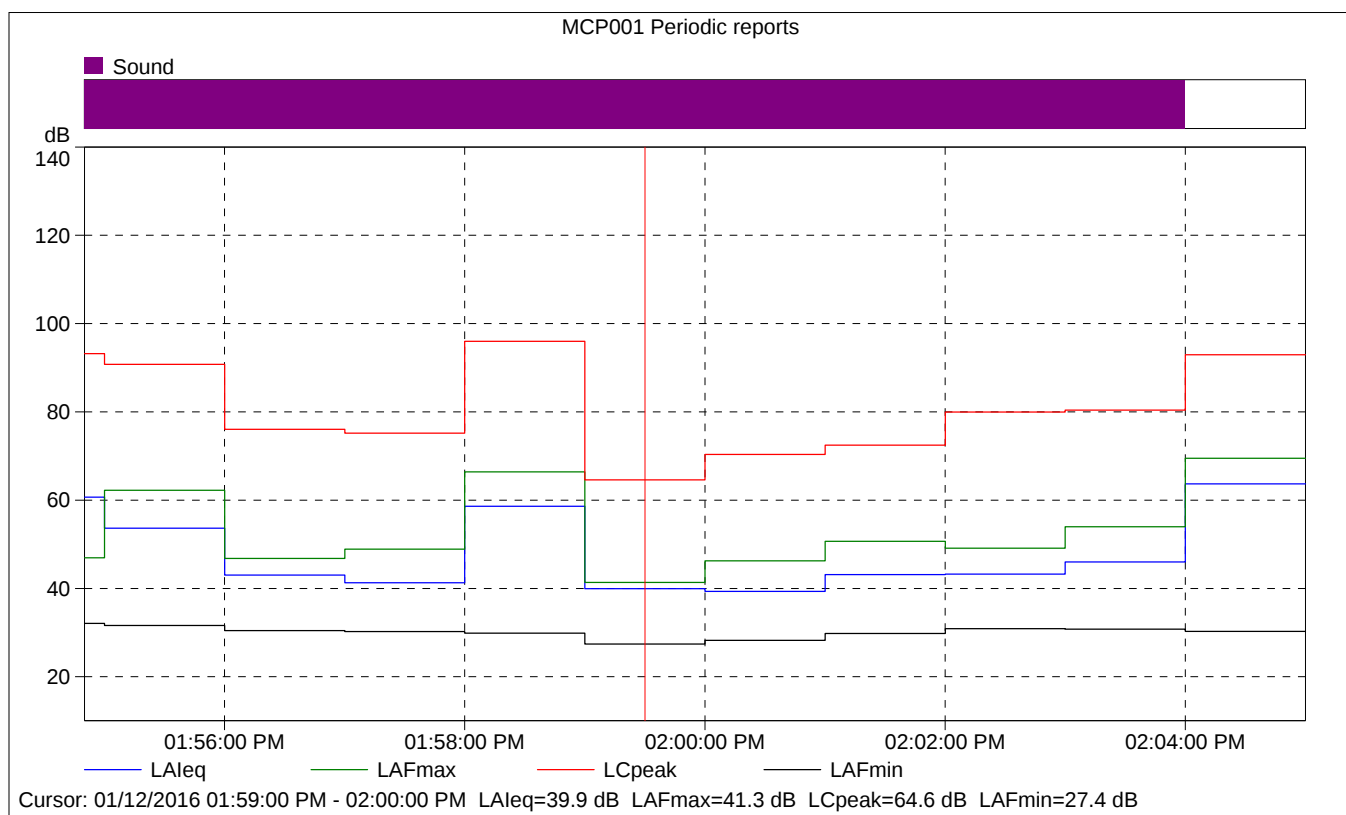
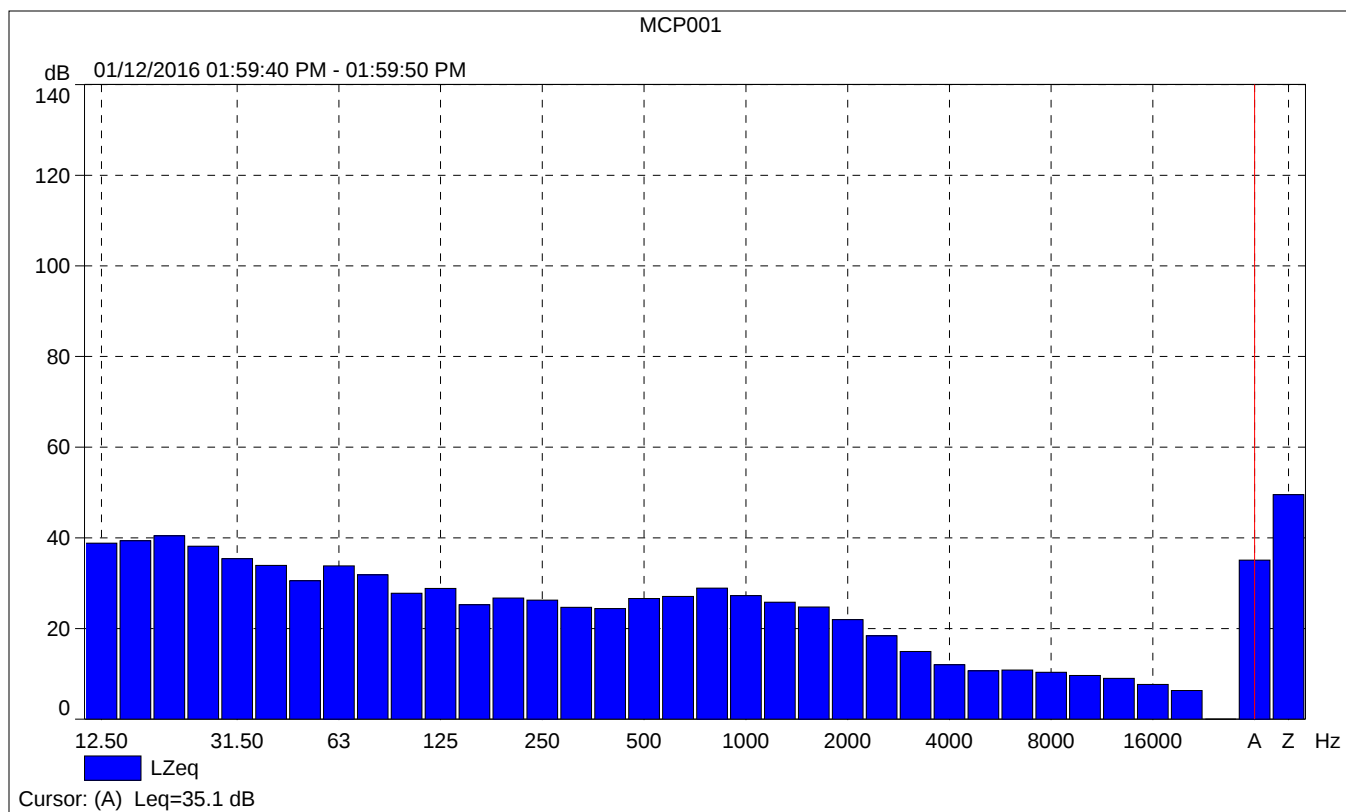
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	45.3	69.5	27.4
Time	01:54:50 PM	02:04:50 PM	0:10:00				
Date	01/12/2016	01/12/2016					





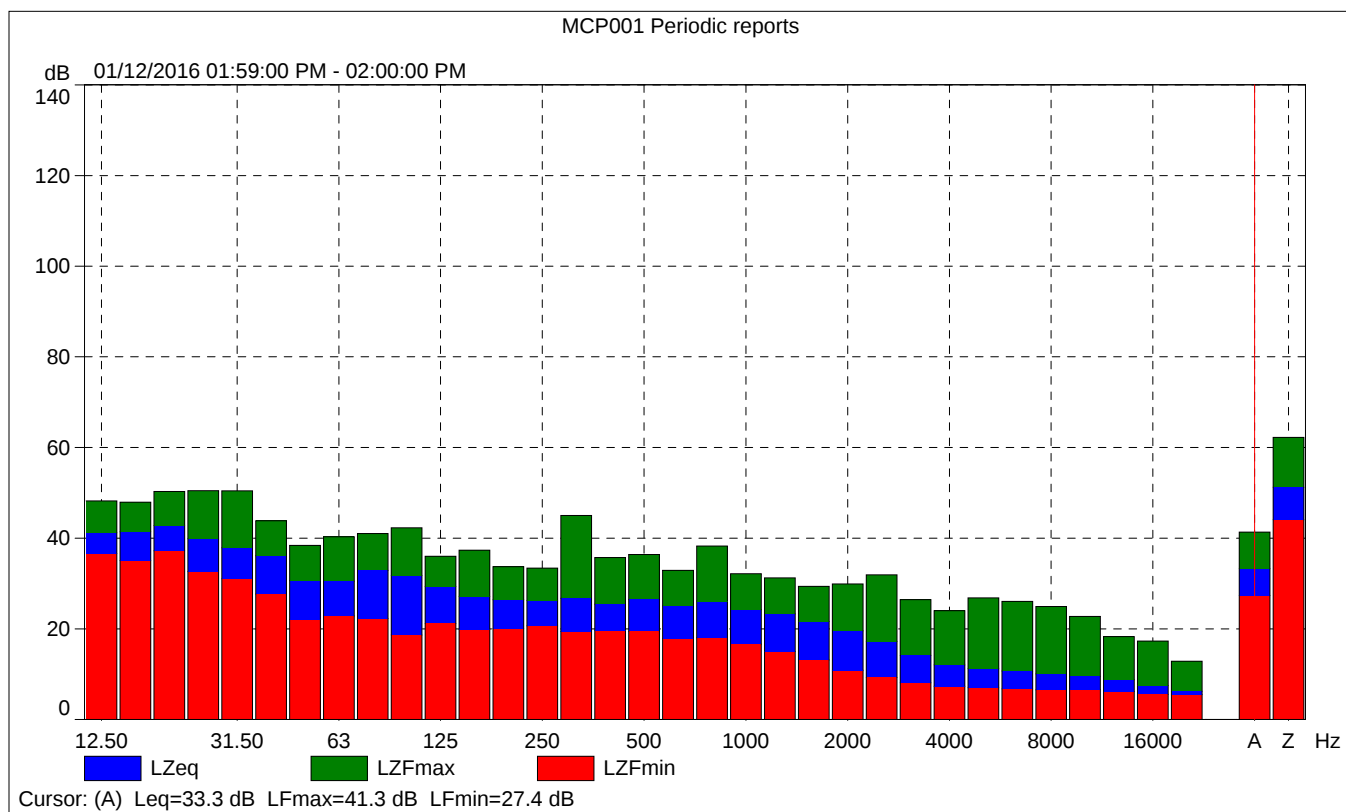
MCP001

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			36.9	39.4	31.3
Time	01:59:40 PM	0:00:10			
Date	01/12/2016				

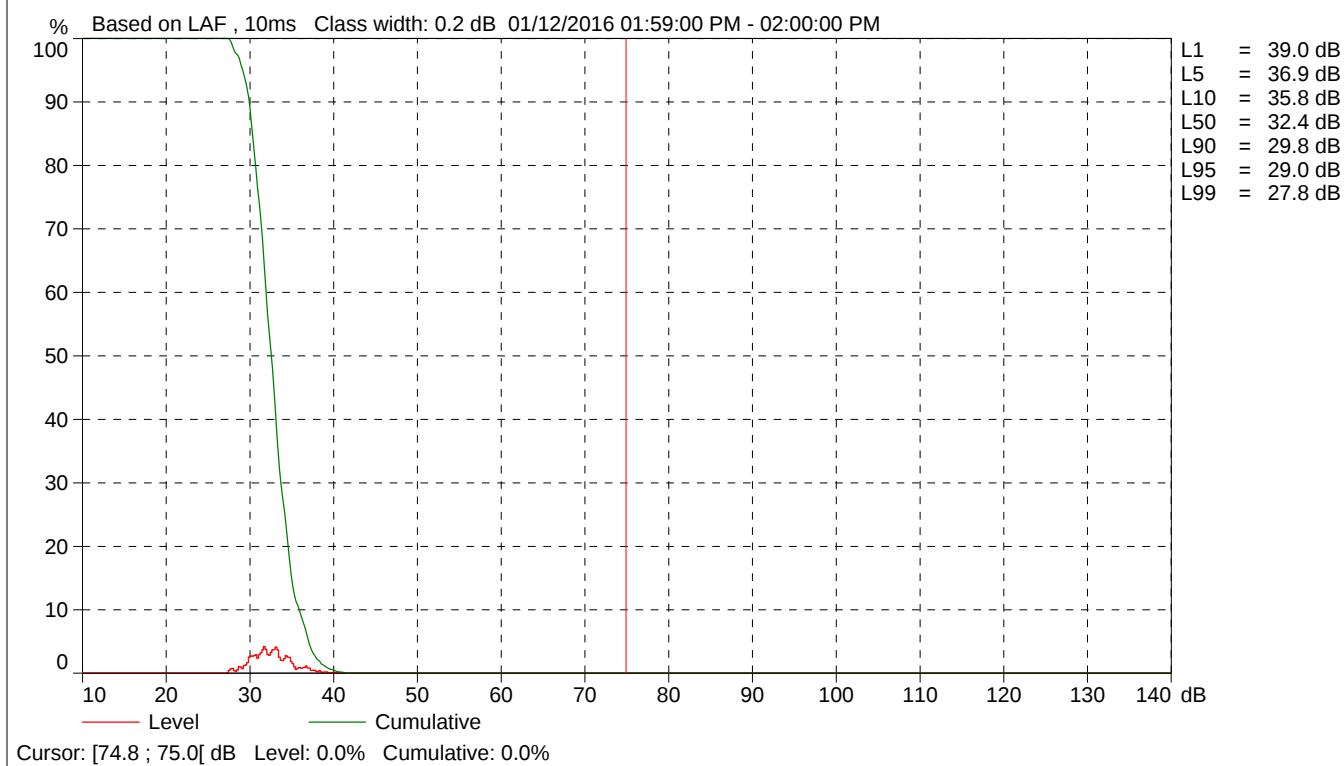


MCP001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	39.9	41.3	27.4
Time	01:59:00 PM	0:01:00				
Date	01/12/2016					



MCP001 Periodic reports



Site Number: 2			
Recorded By: Eddie Torres			
Job Number: 151373			
Date: January 12, 2016			
Time: 2:07 pm			
Location: Mammoth Creek Park West, just east of Mammoth Creek Condominiums			
Source of Peak Noise: Pedestrian activity			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
40.2	35.4	47.7	63.8

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	1/4/2016	
	Microphone	Brüel & Kjær	4189	2543364	1/4/2016	
	Preamp	Brüel & Kjær	ZC 0032	4265	1/4/2016	
	Calibrator	Brüel & Kjær	4231	2545667	1/4/2016	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀ Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	3.4		42.8		30.24	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		01/12/2016 14:07:51
End Time:		01/12/2016 14:17:51
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.75

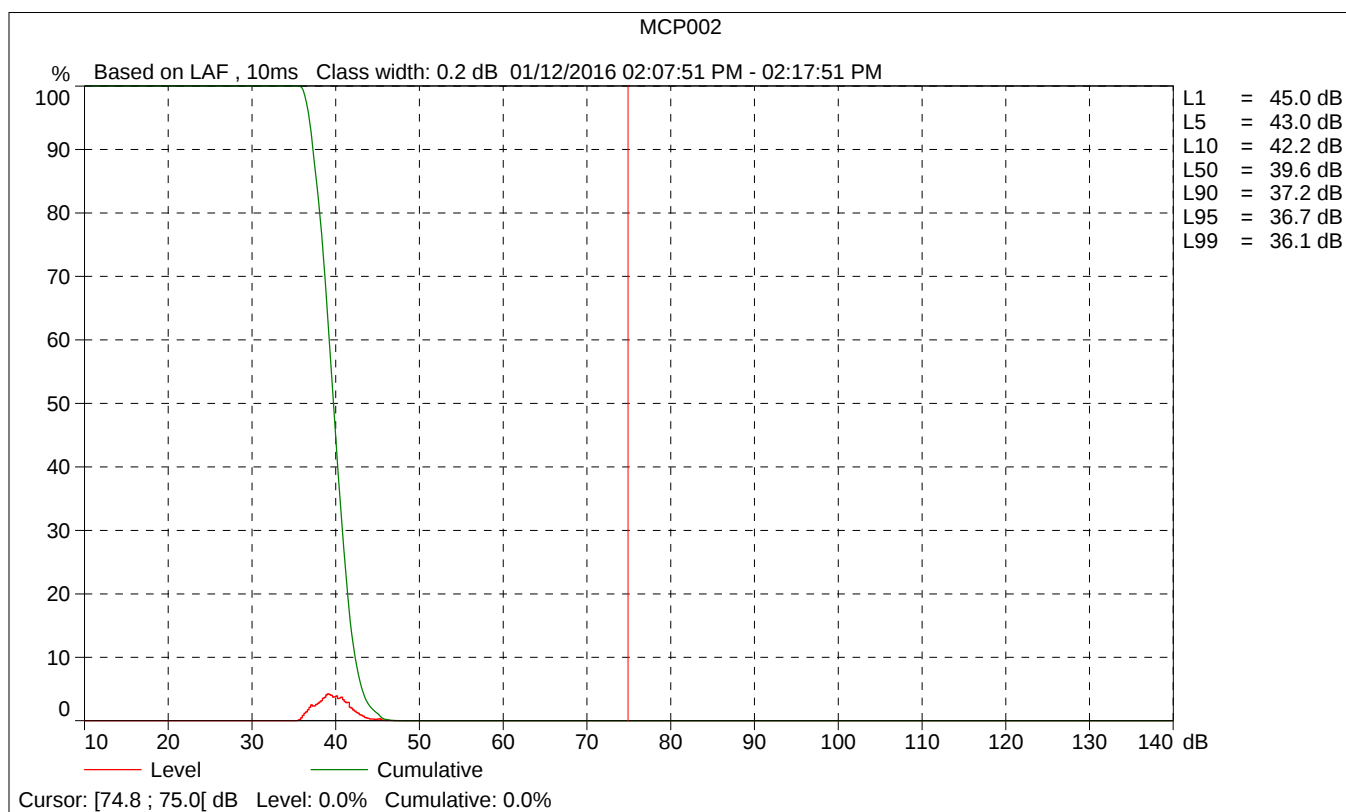
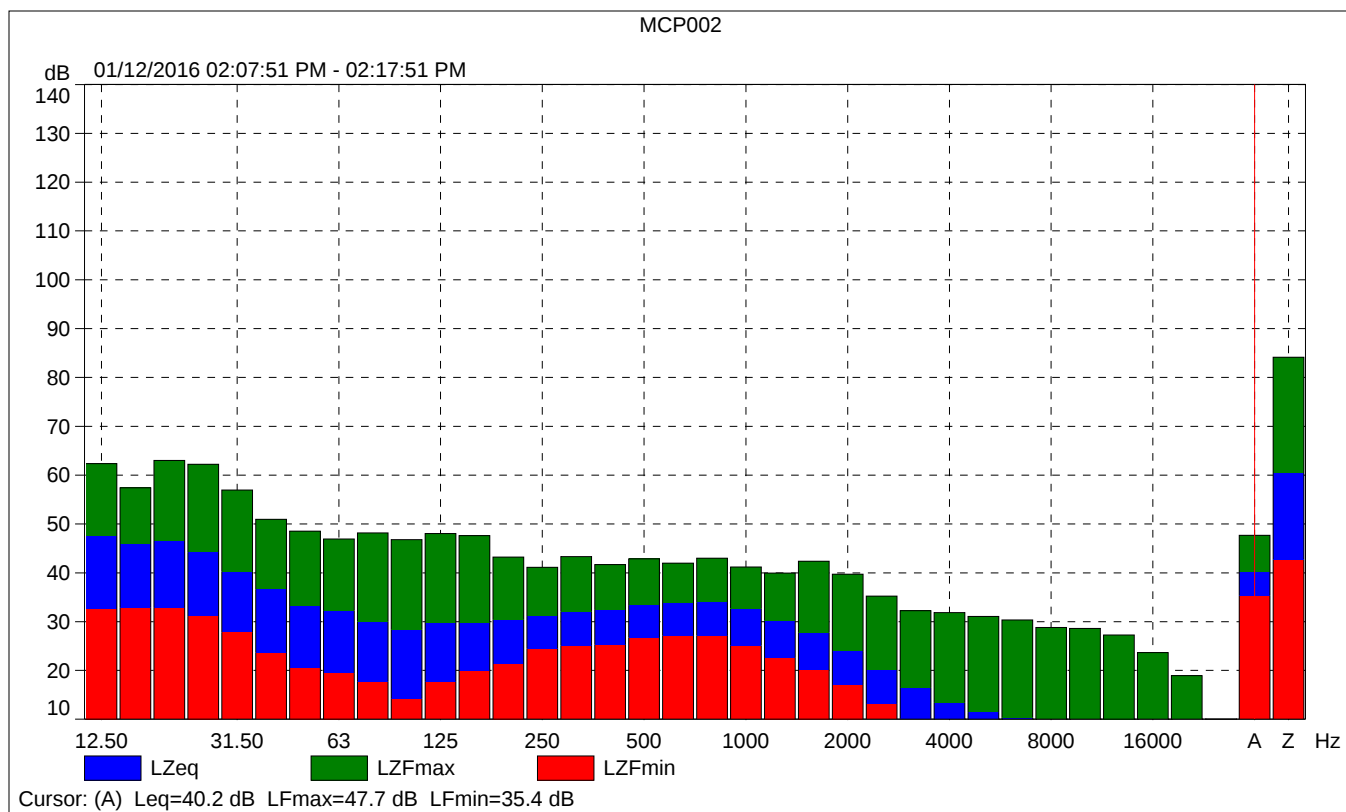
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

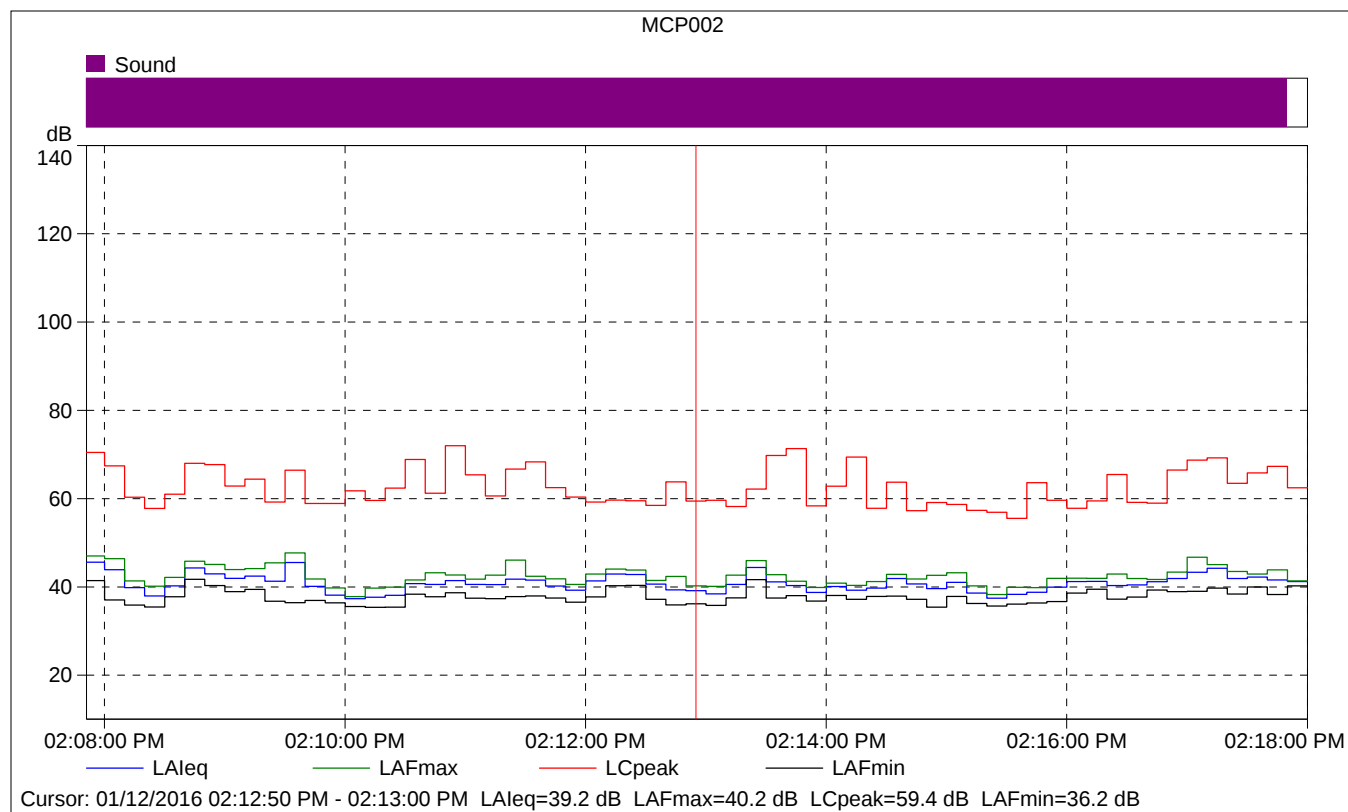
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		01/08/2016 16:38:05
Calibration Type:		External reference
Sensitivity:		64.3964111804962 mV/Pa

MCP002

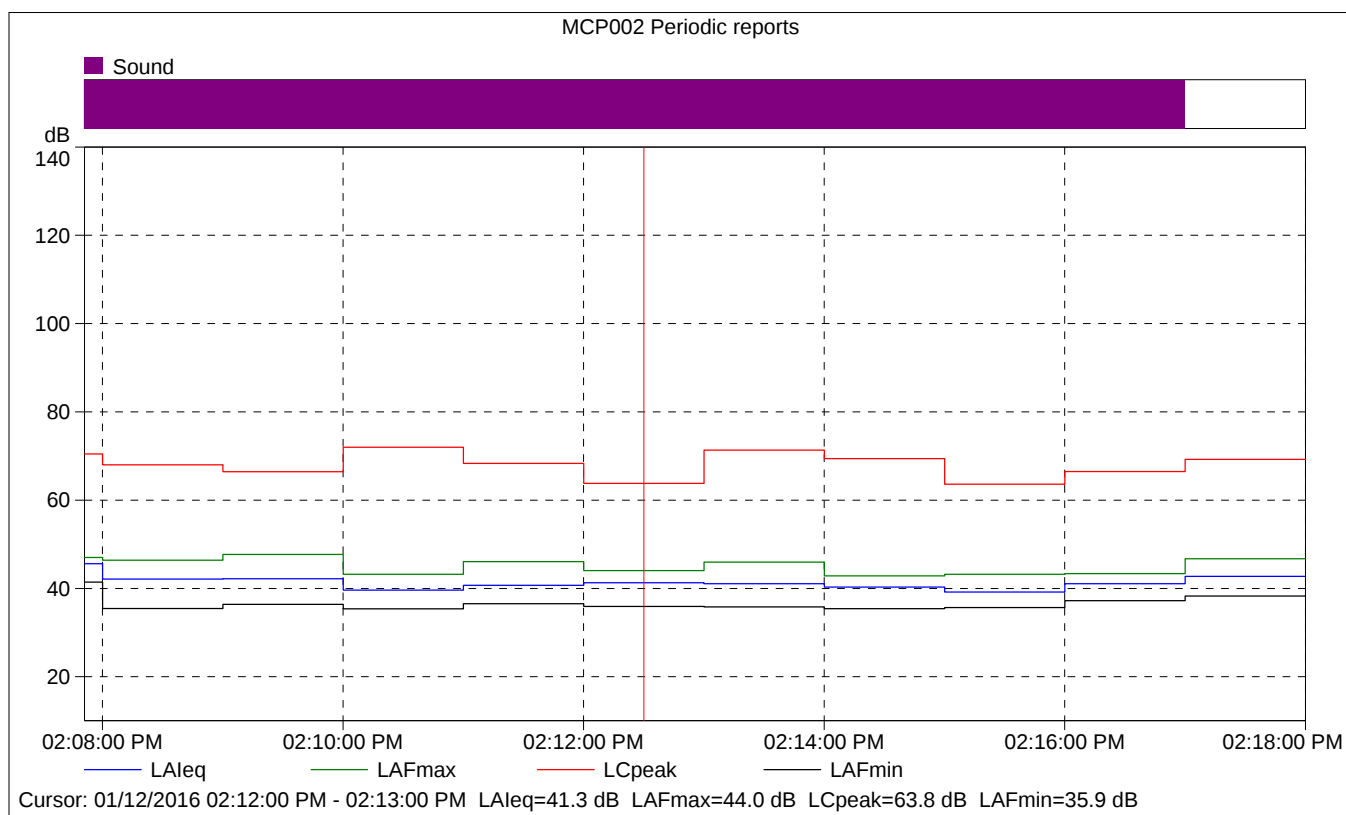
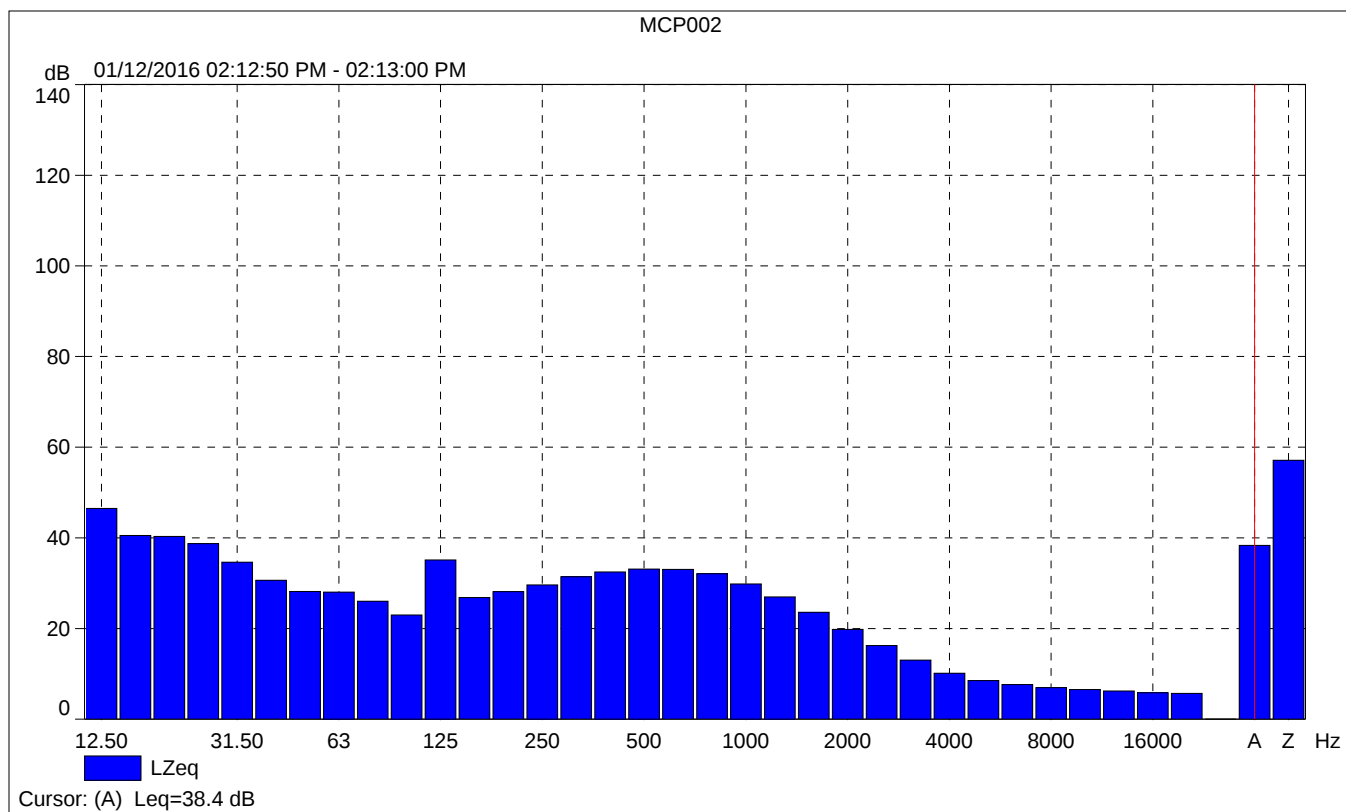
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	40.2	47.7	35.4
Time	02:07:51 PM	02:17:51 PM	0:10:00				
Date	01/12/2016	01/12/2016					





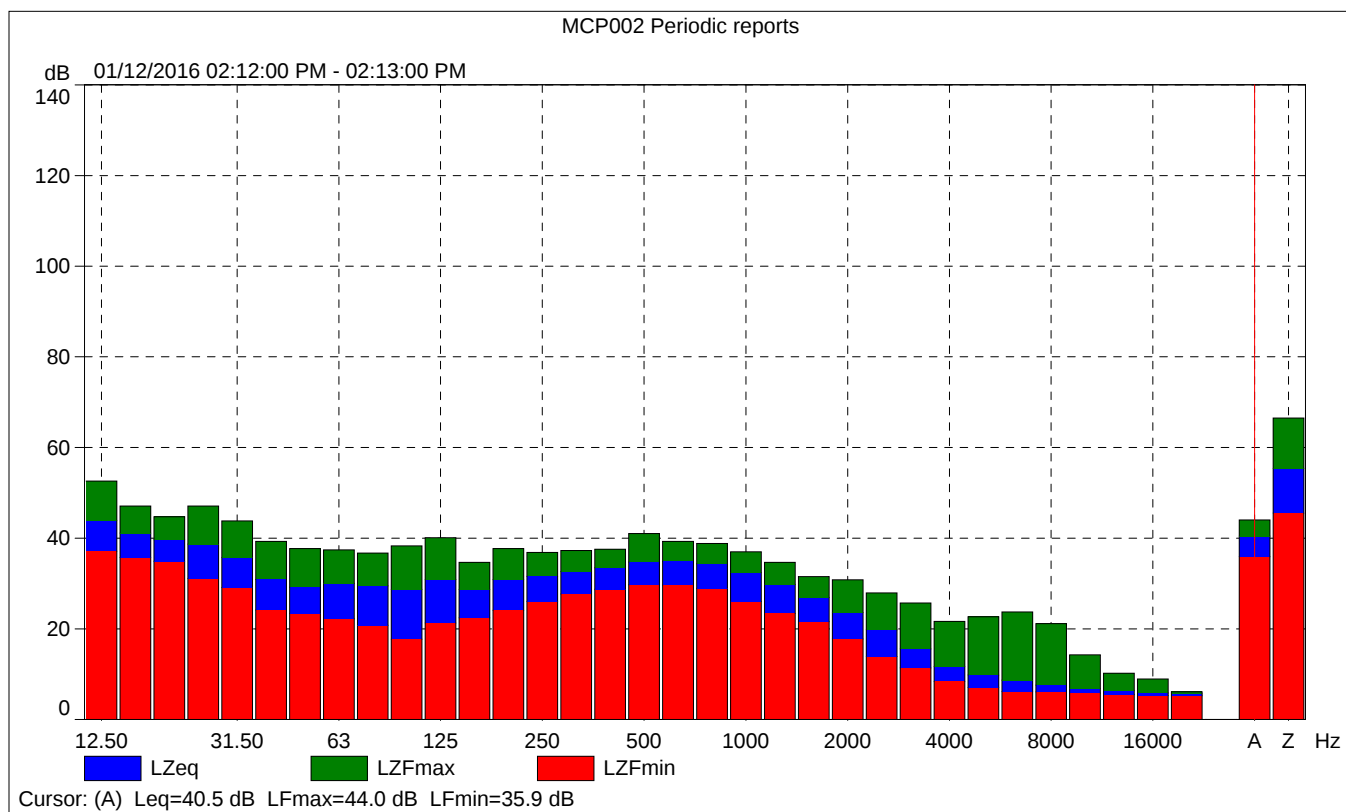
MCP002

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			39.2	40.2	36.2
Time	02:12:50 PM	0:00:10			
Date	01/12/2016				

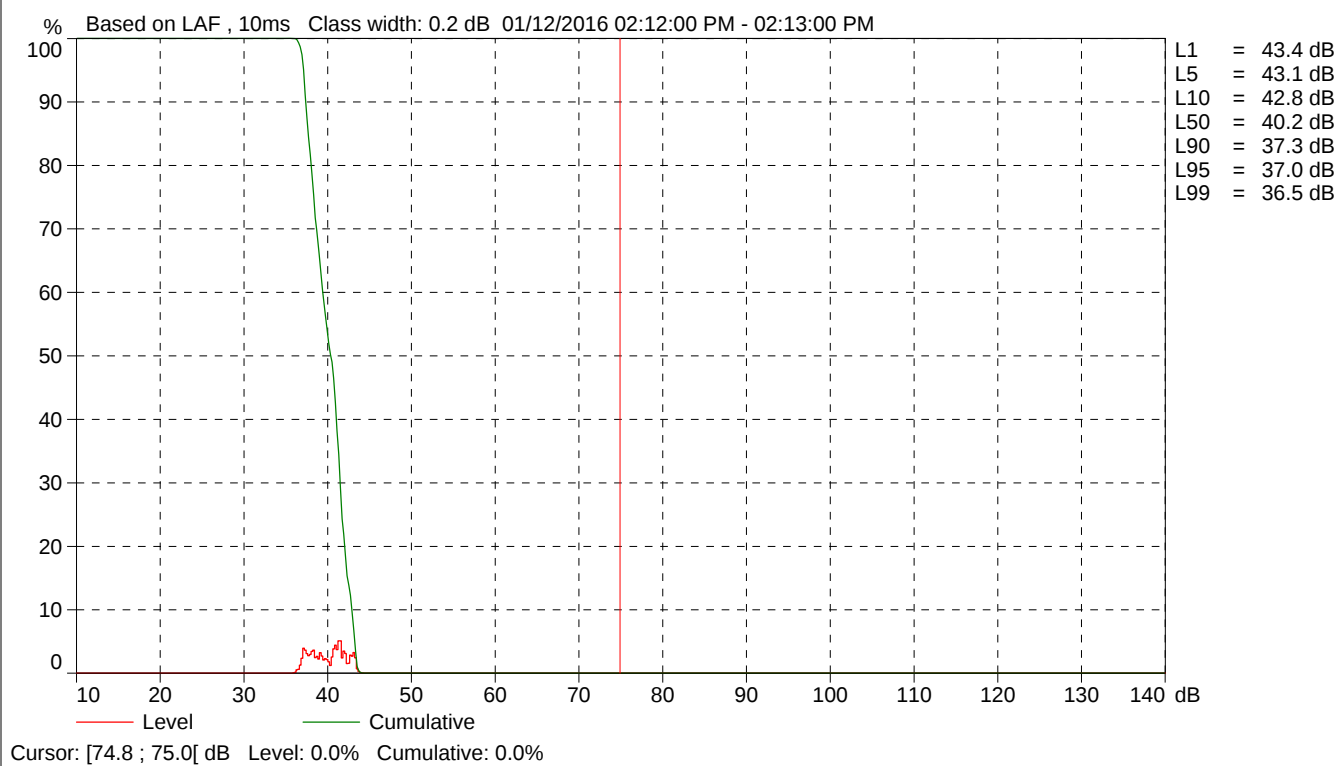


MCP002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	41.3	44.0	35.9
Time	02:12:00 PM	0:01:00				
Date	01/12/2016					



MCP002 Periodic reports



Site Number: 3			
Recorded By: Eddie Torres			
Job Number: 151373			
Date: January 12, 2016			
Time: 2:21 pm			
Location: Mammoth Creek Park West, just north of the Mammoth Creek pedestrian bridge			
Source of Peak Noise: Water streaming through Mammoth Creek			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
48.2	45.0	61.9	67.5

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	1/4/2016	
	Microphone	Brüel & Kjær	4189	2543364	1/4/2016	
	Preamp	Brüel & Kjær	ZC 0032	4265	1/4/2016	
	Calibrator	Brüel & Kjær	4231	2545667	1/4/2016	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀ Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.6		42.8		30.24	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		01/12/2016 14:21:18
End Time:		01/12/2016 14:31:18
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.75

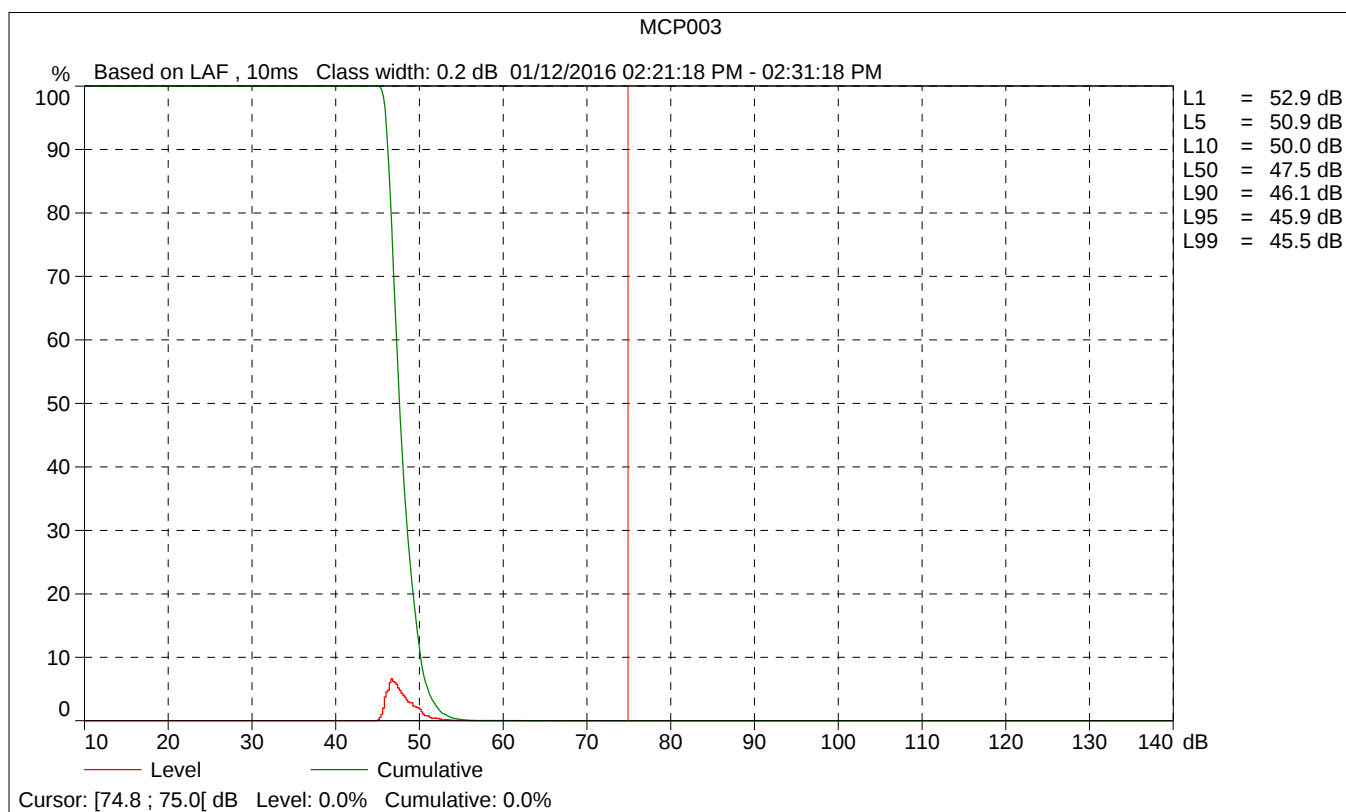
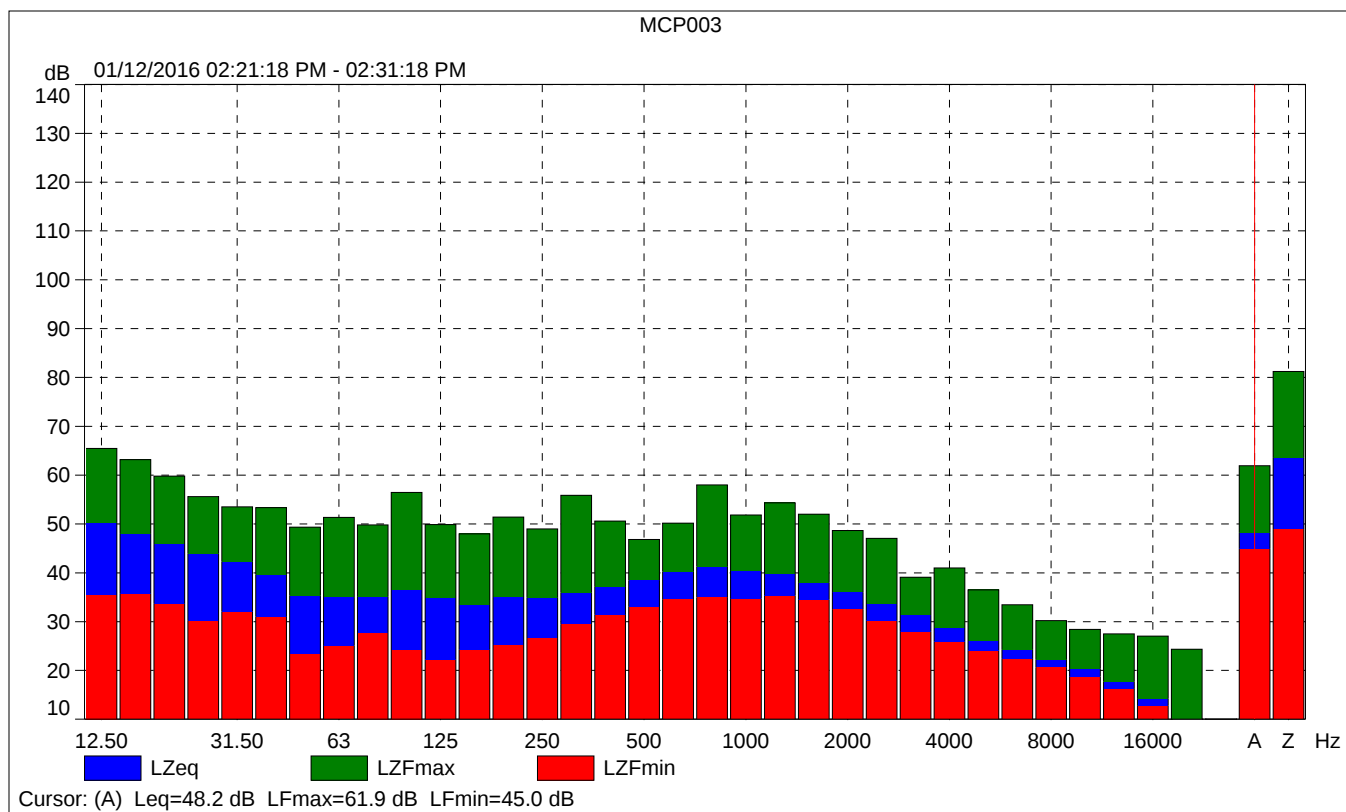
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

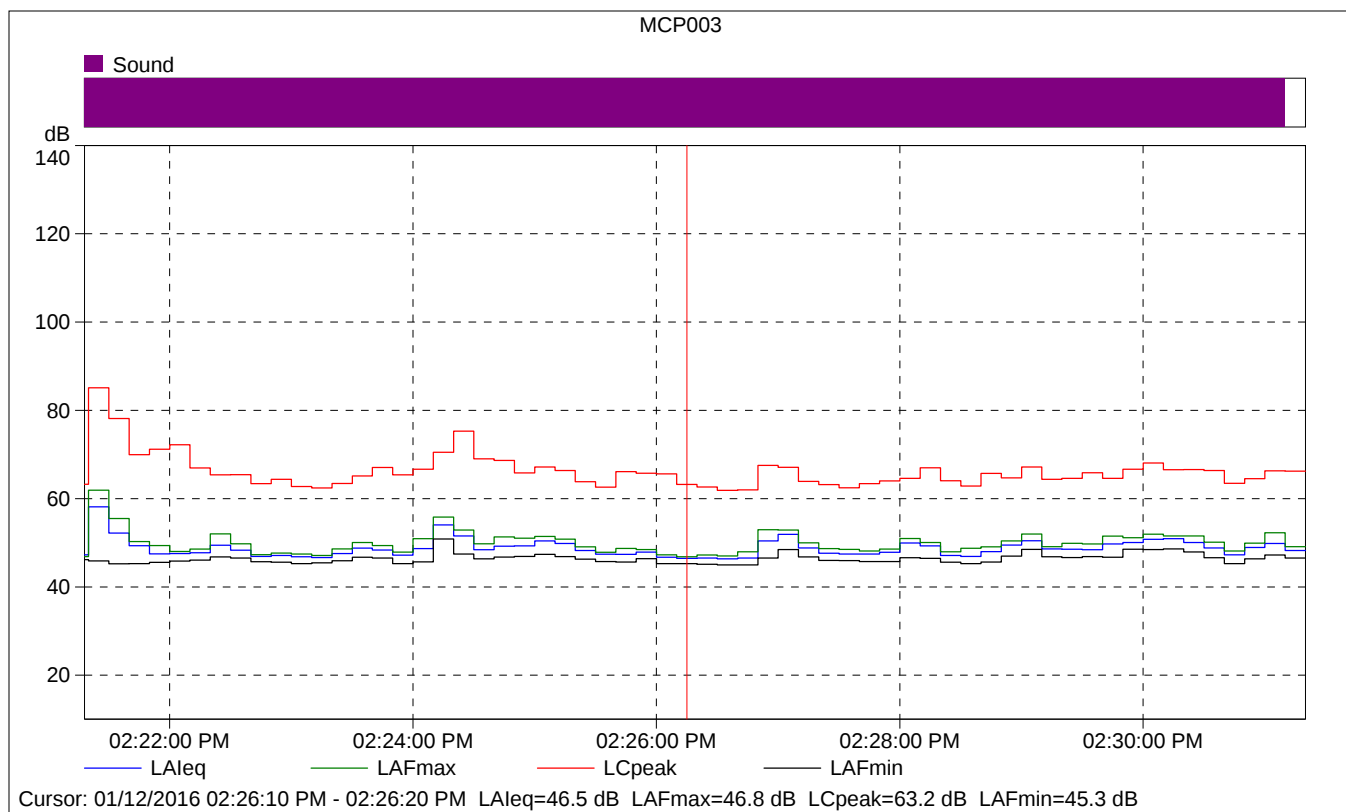
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		01/08/2016 16:38:05
Calibration Type:		External reference
Sensitivity:		64.3964111804962 mV/Pa

MCP003

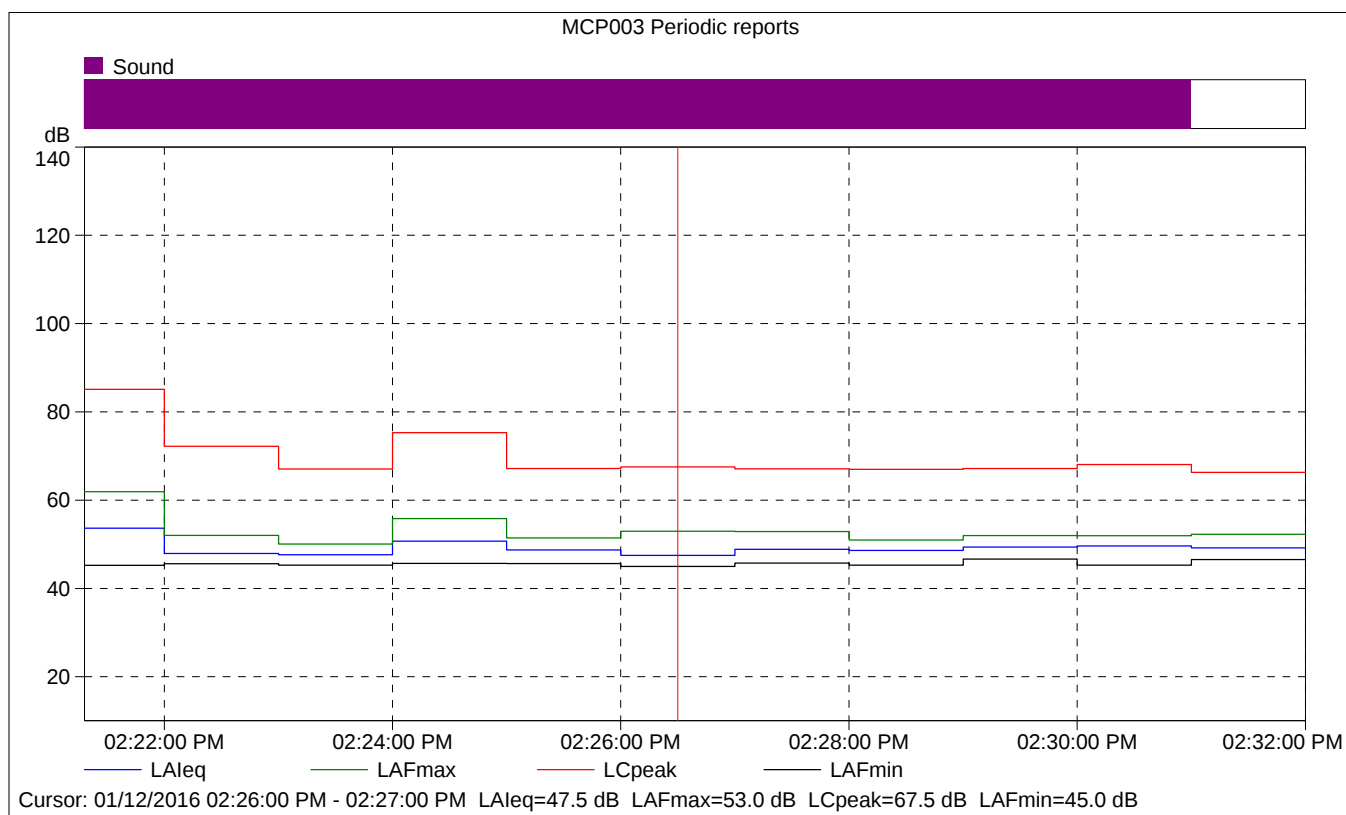
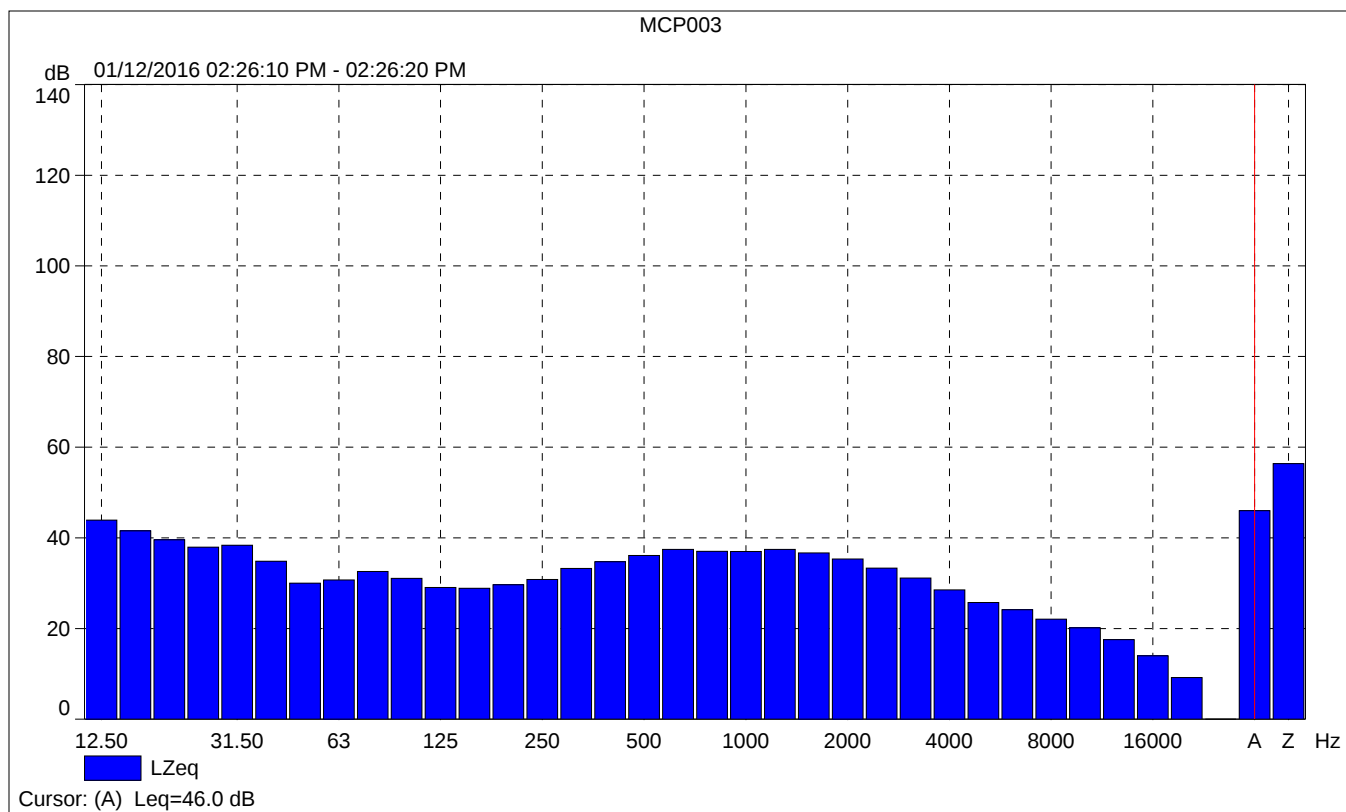
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	48.2	61.9	45.0
Time	02:21:18 PM	02:31:18 PM	0:10:00				
Date	01/12/2016	01/12/2016					





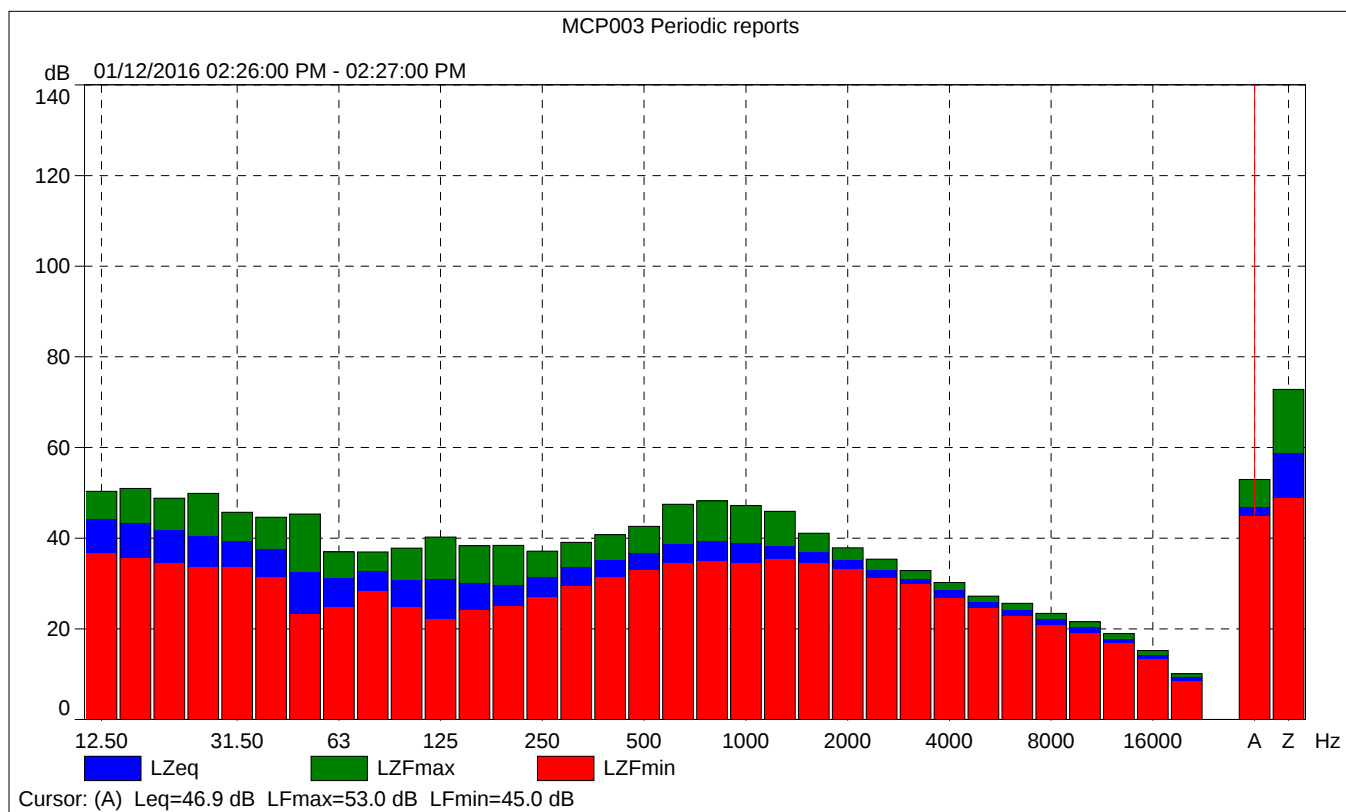
MCP003

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			46.5	46.8	45.3
Time	02:26:10 PM	0:00:10			
Date	01/12/2016				

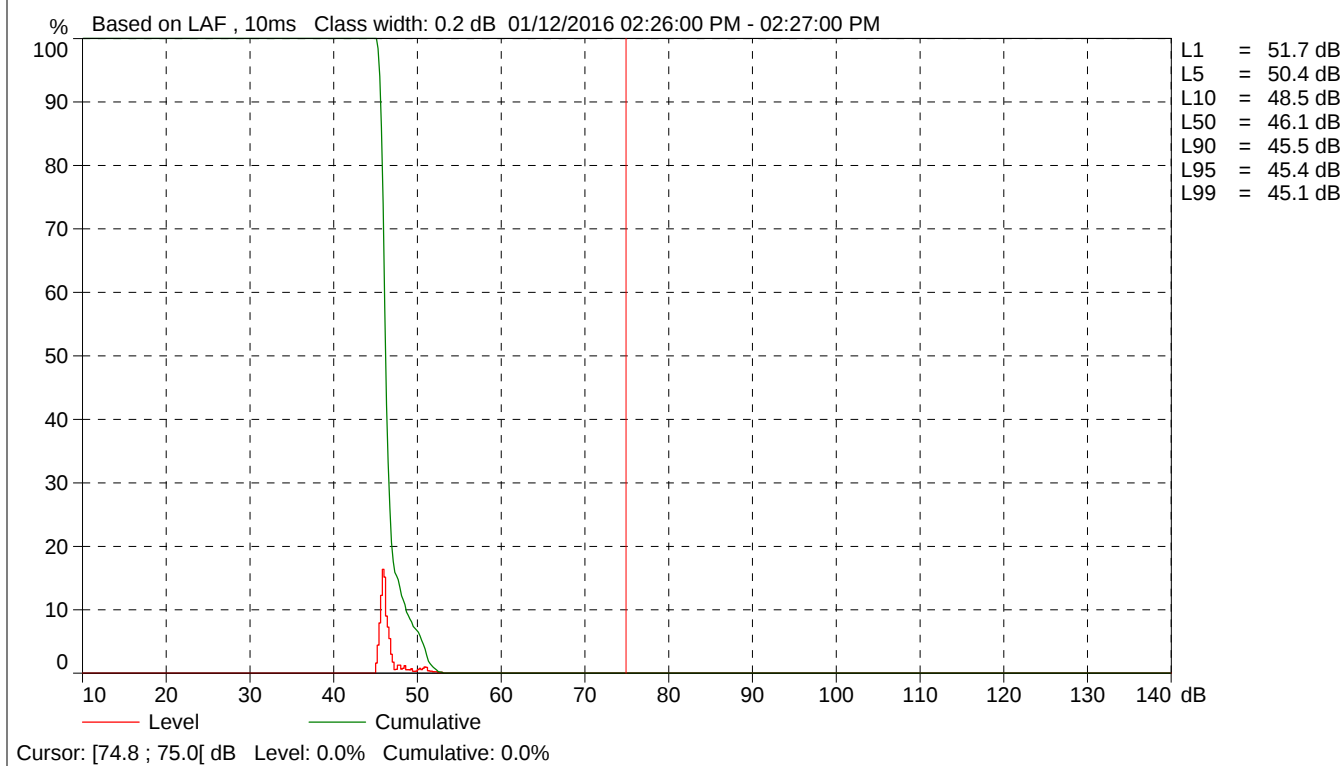


MCP003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	47.5	53.0	45.0
Time	02:26:00 PM	0:01:00				
Date	01/12/2016					



MCP003 Periodic reports



Site Number: 4			
Recorded By: Eddie Torres			
Job Number: 151373			
Date: January 12, 2016			
Time: 2:42 pm			
Location: Chateau Blanc Condominiums, just north of Mammoth Creek Park West			
Source of Peak Noise: Parking lot activities			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
40.9	34.4	59.1	69.8

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	1/4/2016	
	Microphone	Brüel & Kjær	4189	2543364	1/4/2016	
	Preamp	Brüel & Kjær	ZC 0032	4265	1/4/2016	
	Calibrator	Brüel & Kjær	4231	2545667	1/4/2016	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀ Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.2		42.2		30.23	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		01/12/2016 14:42:51
End Time:		01/12/2016 14:52:51
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.75

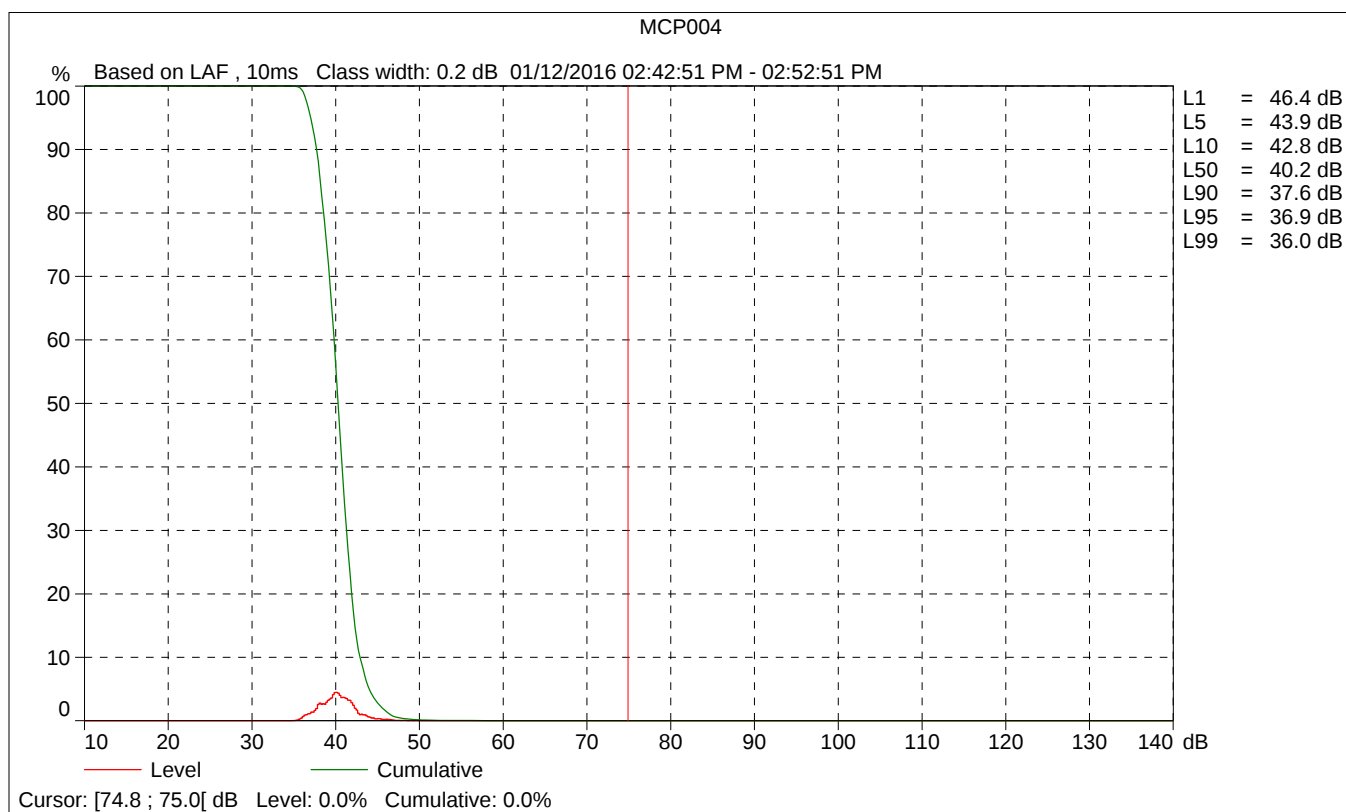
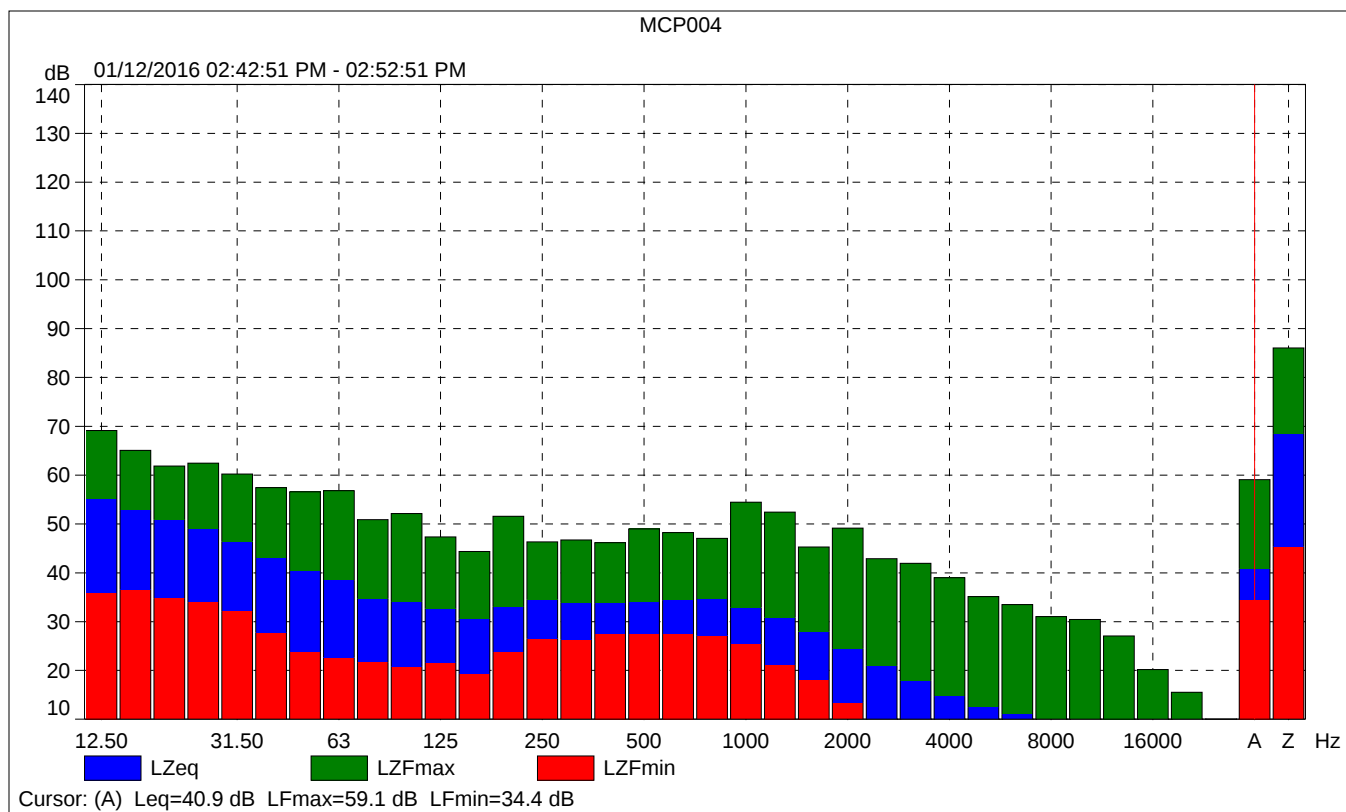
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

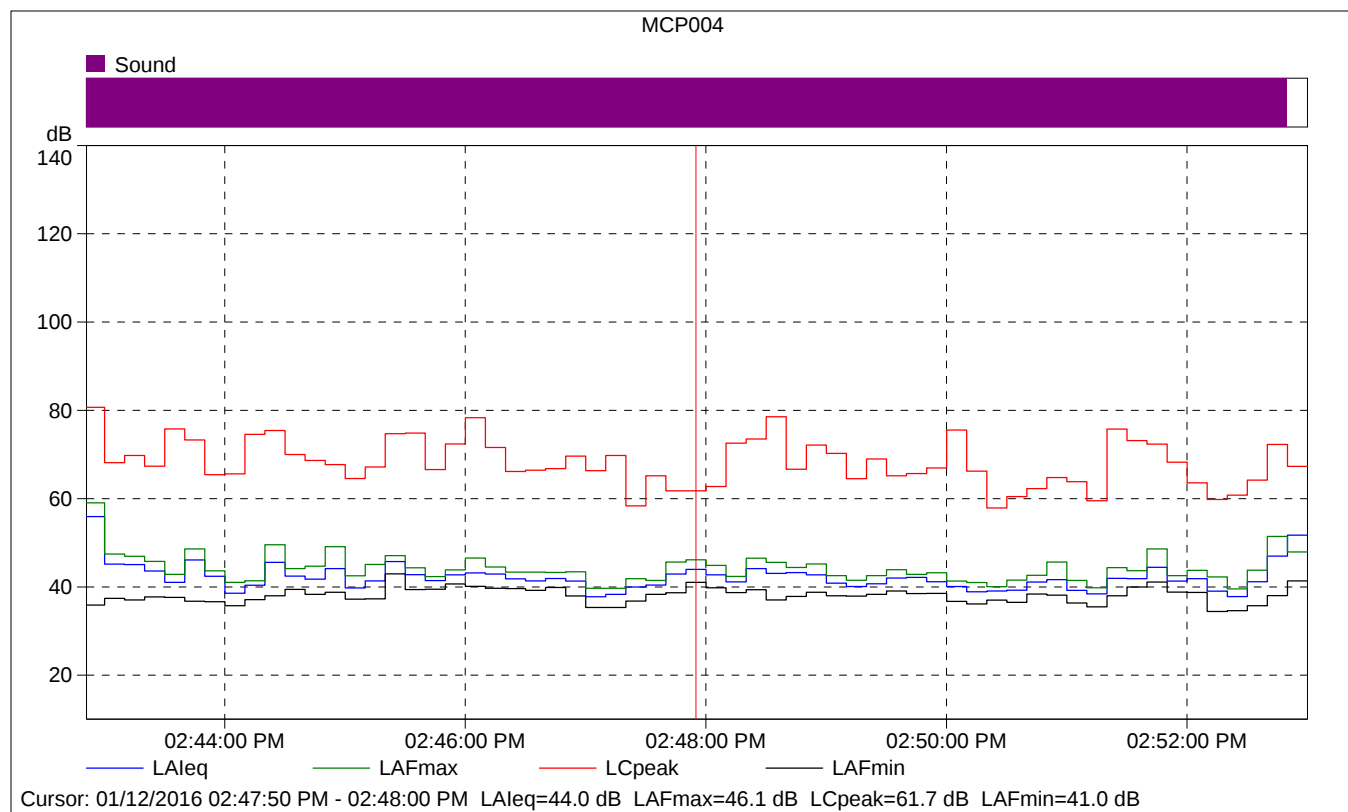
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		01/08/2016 16:38:05
Calibration Type:		External reference
Sensitivity:		64.3964111804962 mV/Pa

MCP004

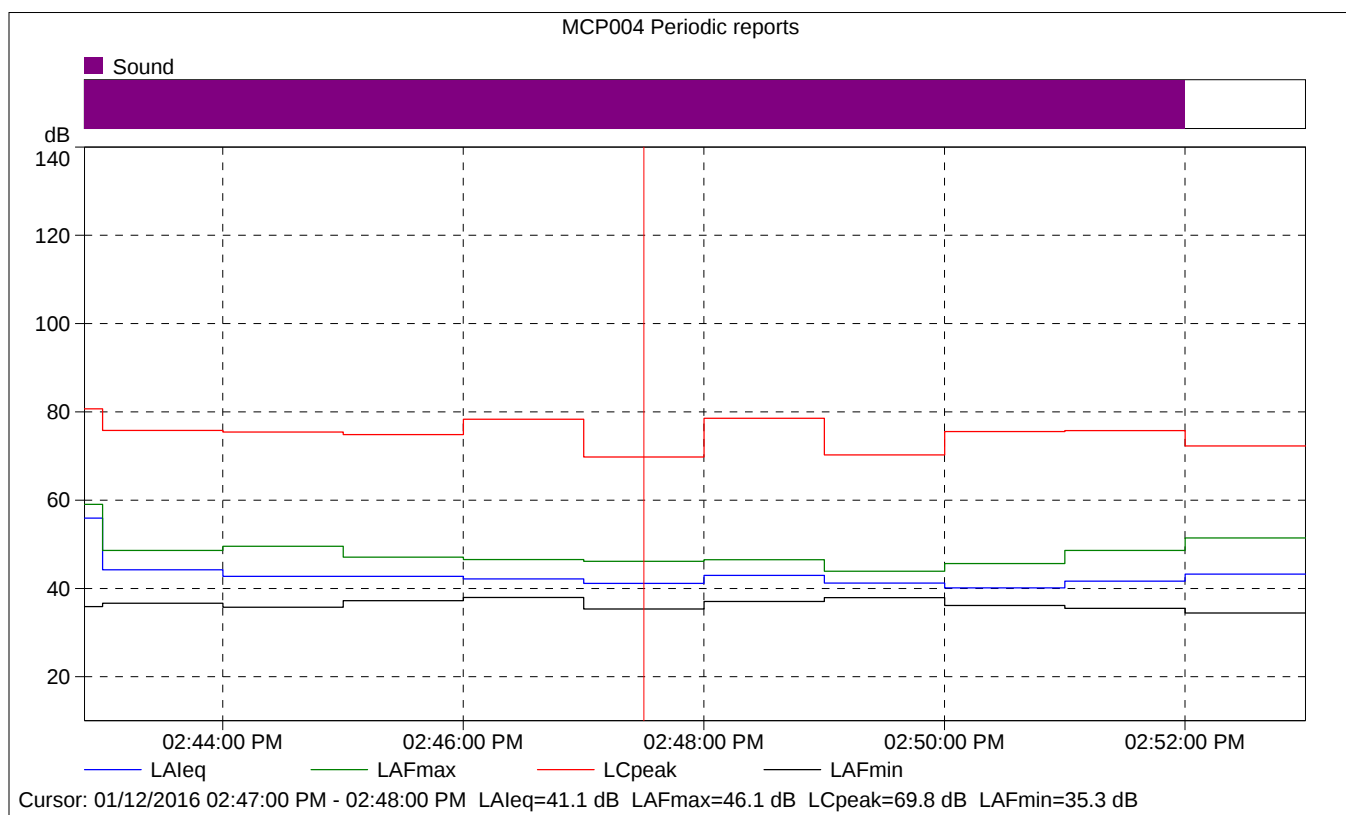
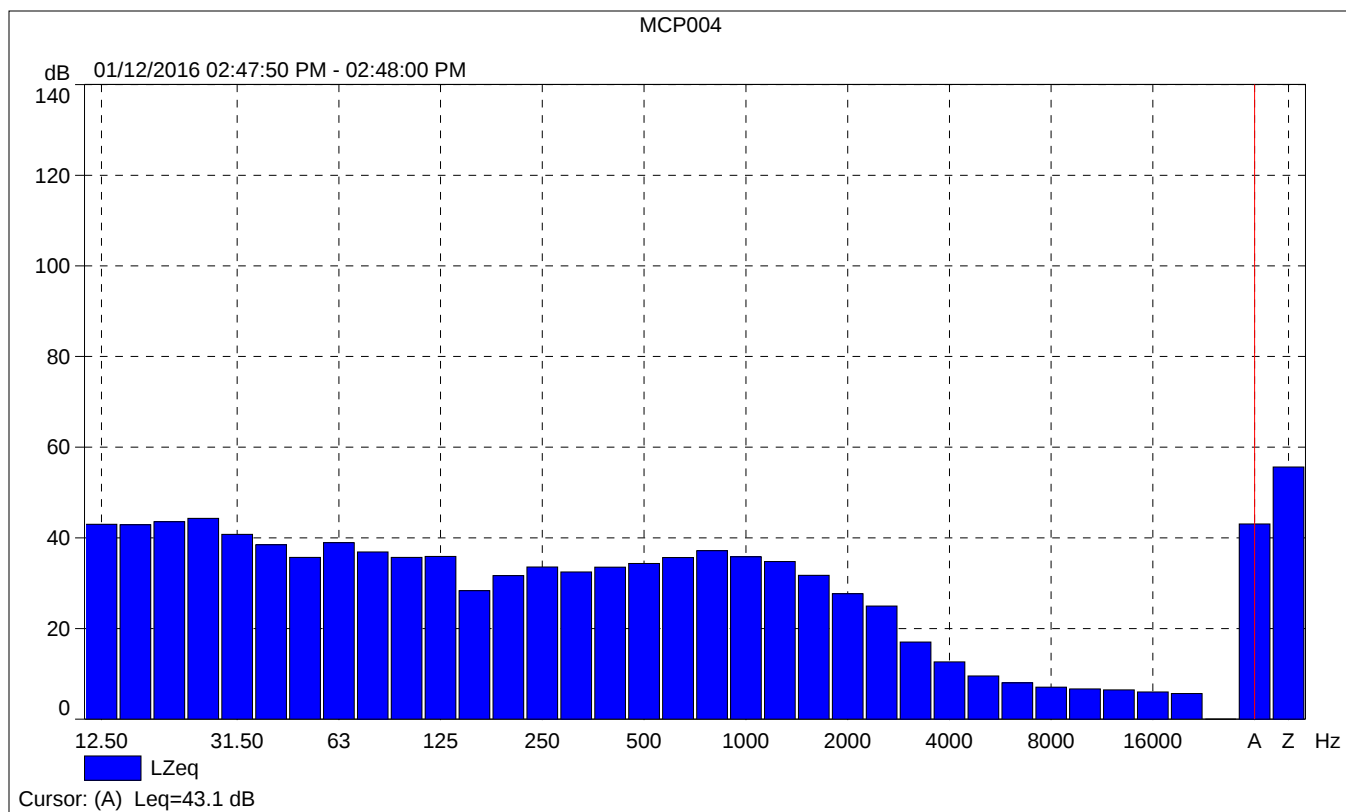
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	40.9	59.1	34.4
Time	02:42:51 PM	02:52:51 PM	0:10:00				
Date	01/12/2016	01/12/2016					





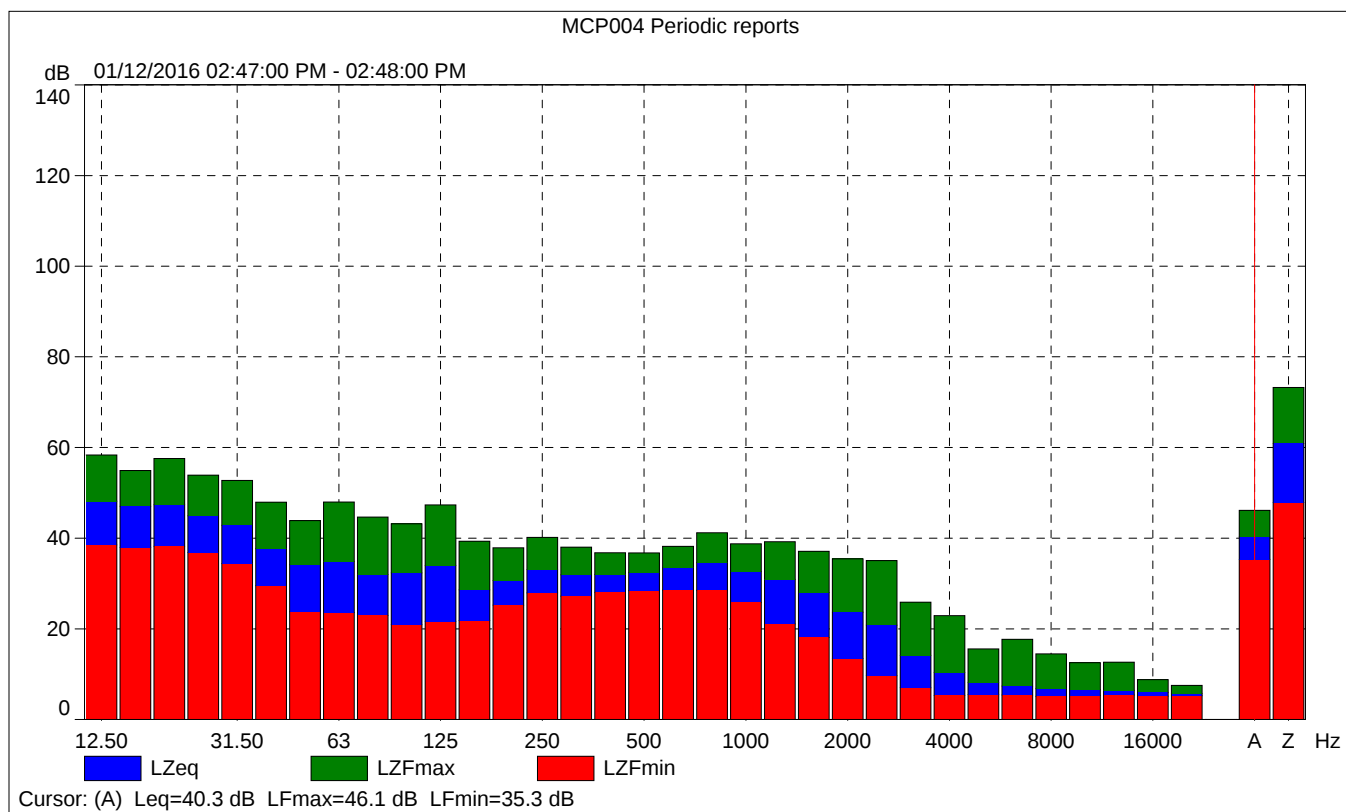
MCP004

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			44.0	46.1	41.0
Time	02:47:50 PM	0:00:10			
Date	01/12/2016				

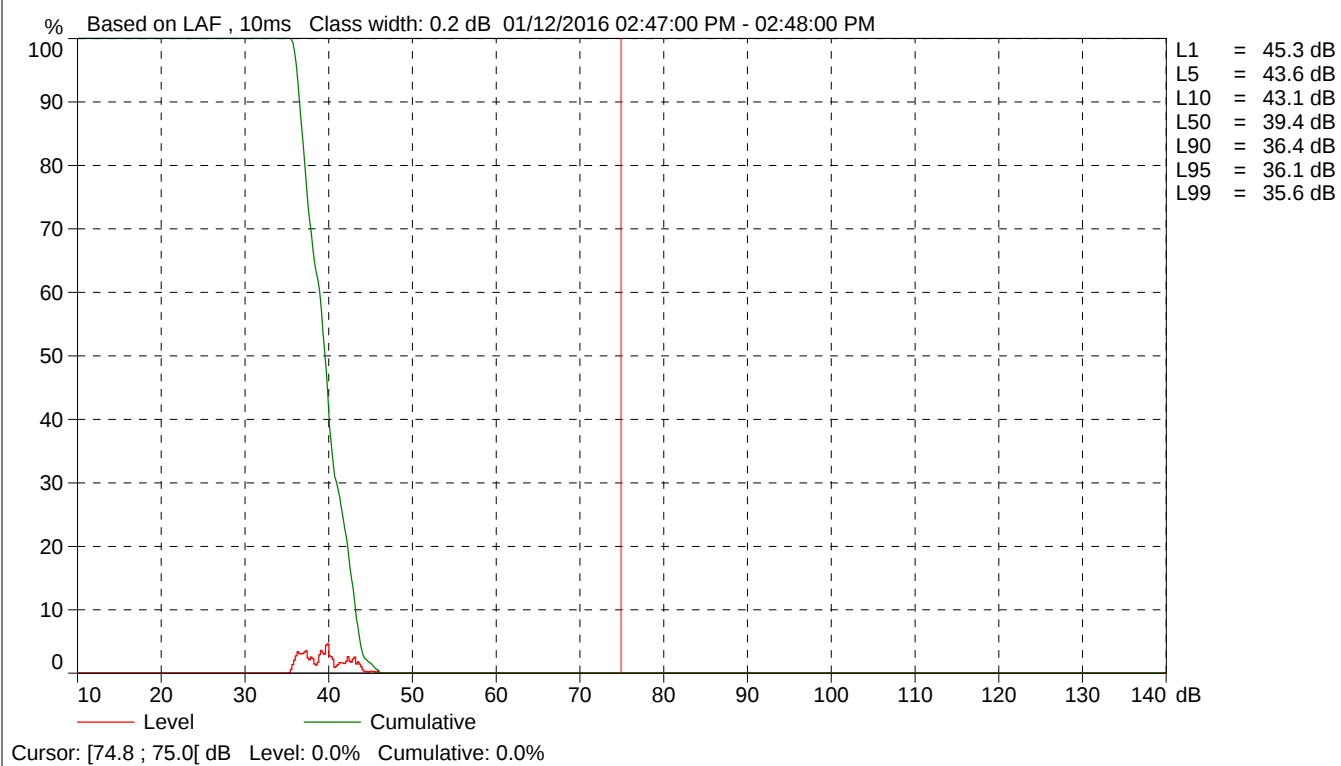


MCP004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	41.1	46.1	35.3
Time	02:47:00 PM	0:01:00				
Date	01/12/2016					



MCP004 Periodic reports



Site Number: 5			
Recorded By: Eddie Torres			
Job Number: 151373			
Date: January 12, 2016			
Time: 3.34 pm			
Location: Existing Skate Rink, adjacent to audience stands (4 recreational ice skaters)			
Source of Peak Noise: Puck shots, skate activities			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
55.3	45.4	73.2	87.7

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	1/4/2016	
	Microphone	Brüel & Kjær	4189	2543364	1/4/2016	
	Preamp	Brüel & Kjær	ZC 0032	4265	1/4/2016	
	Calibrator	Brüel & Kjær	4231	2545667	1/4/2016	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀ Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.4		42.2		30.23	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		01/12/2016 15:34:43
End Time:		01/12/2016 15:44:43
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.75

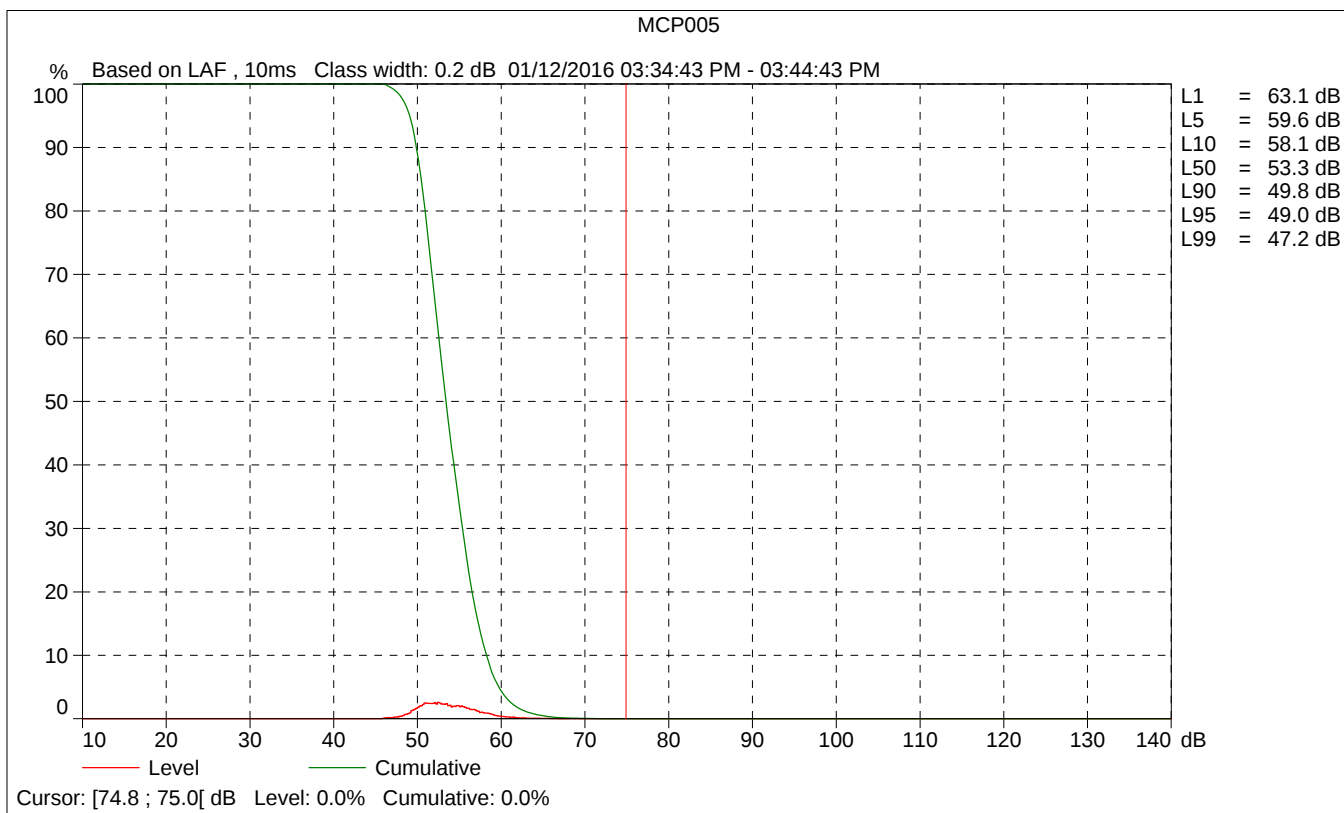
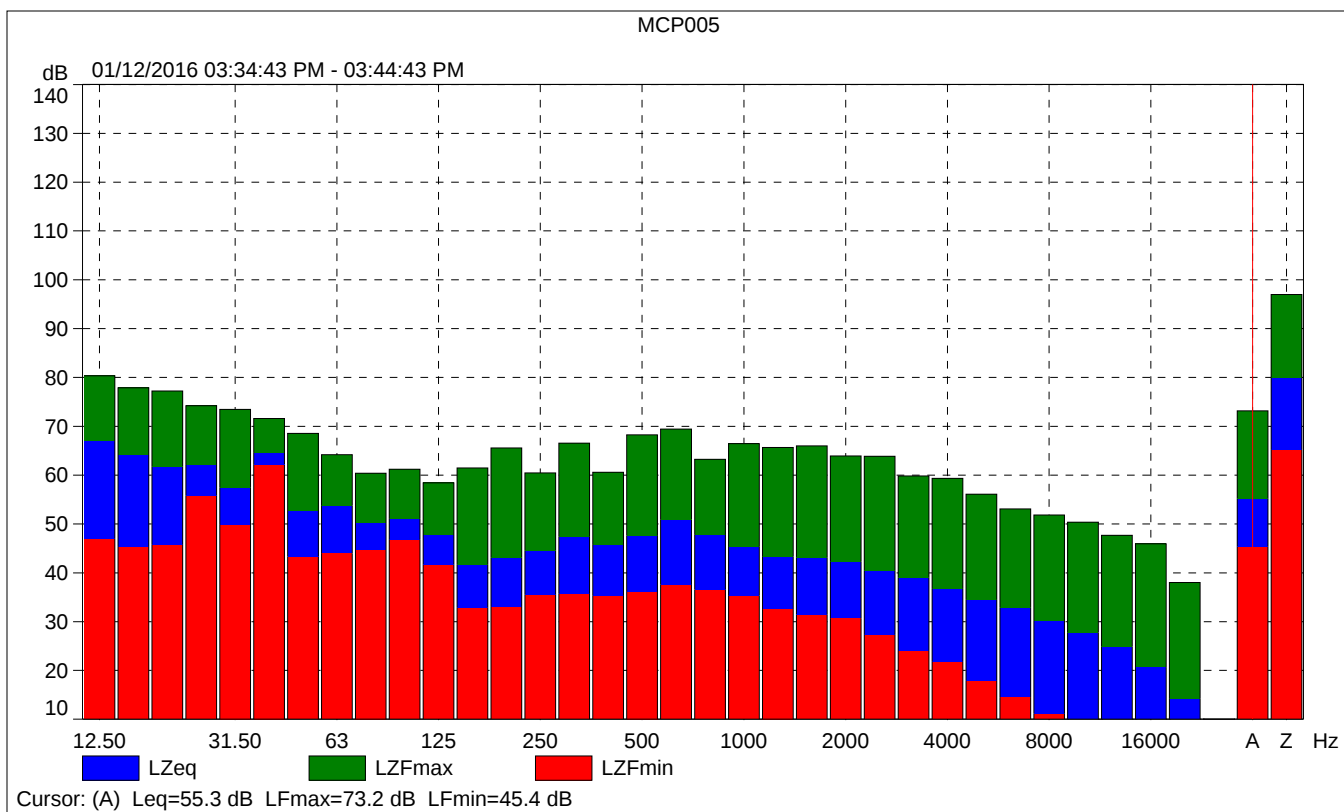
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

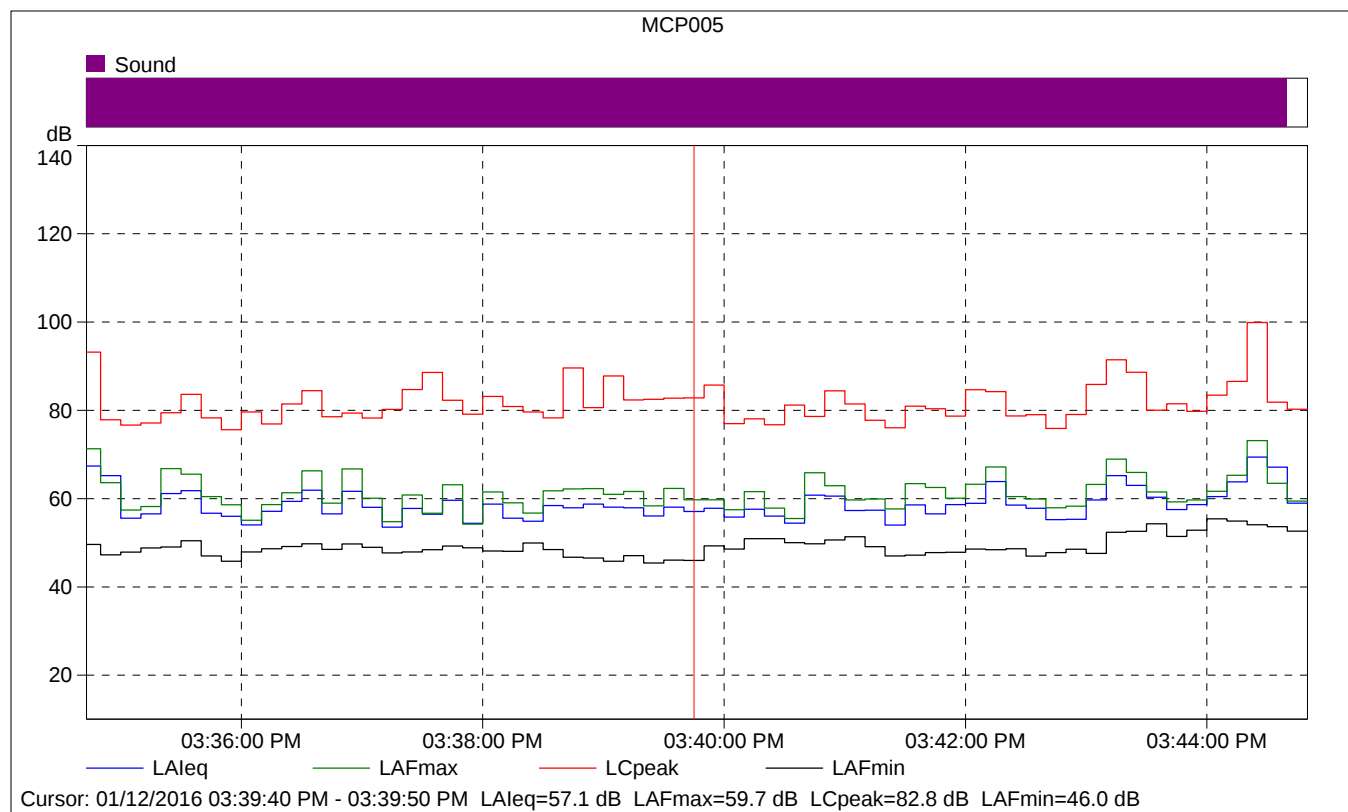
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		01/08/2016 16:38:05
Calibration Type:		External reference
Sensitivity:		64.3964111804962 mV/Pa

MCP005

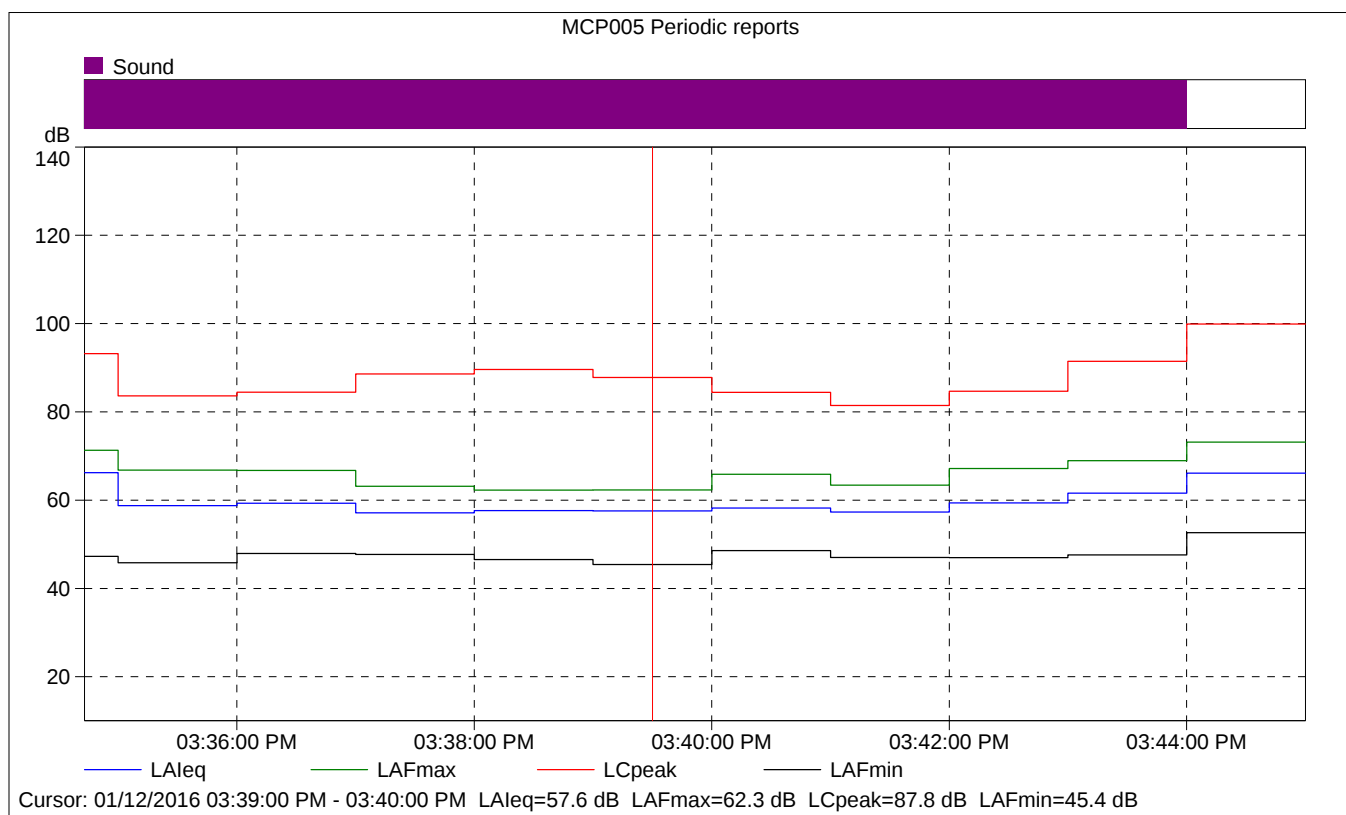
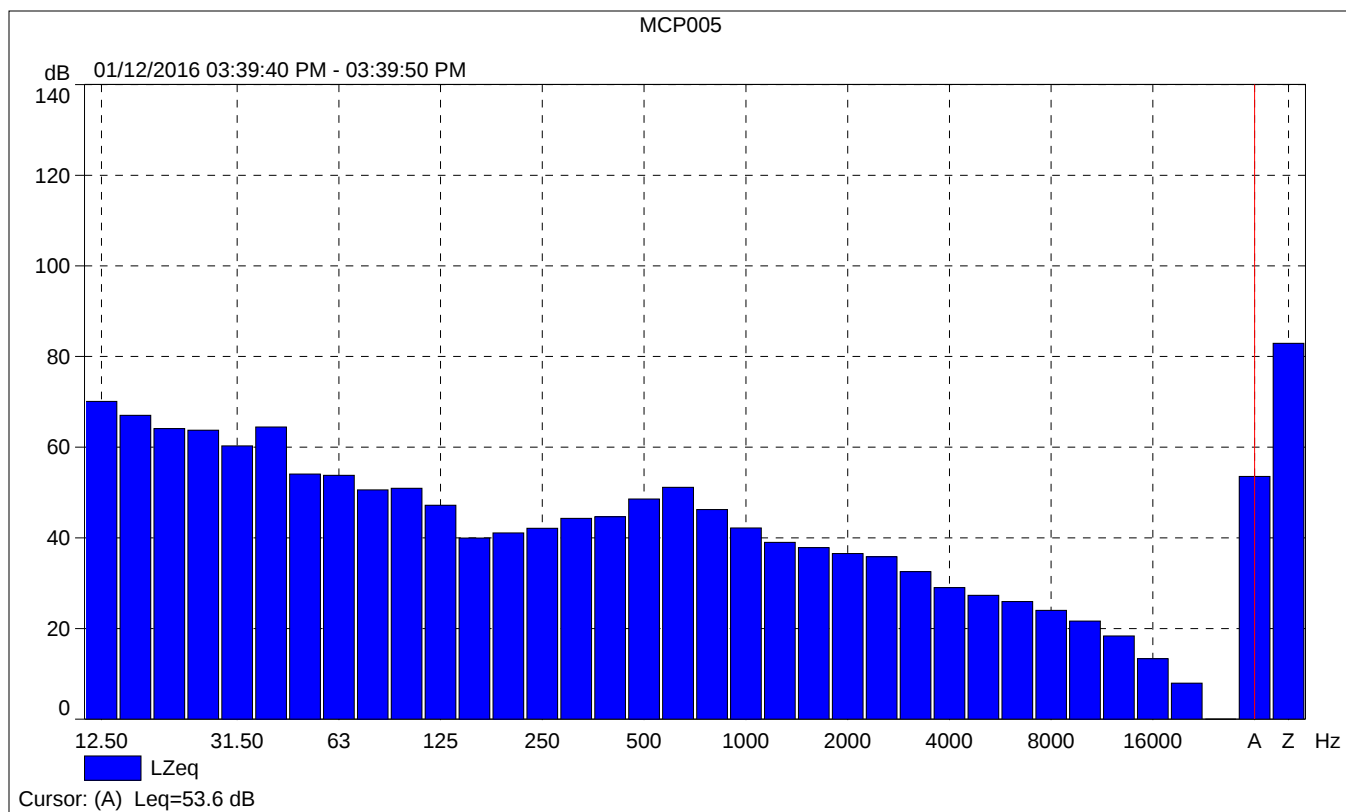
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	55.3	73.2	45.4
Time	03:34:43 PM	03:44:43 PM	0:10:00				
Date	01/12/2016	01/12/2016					





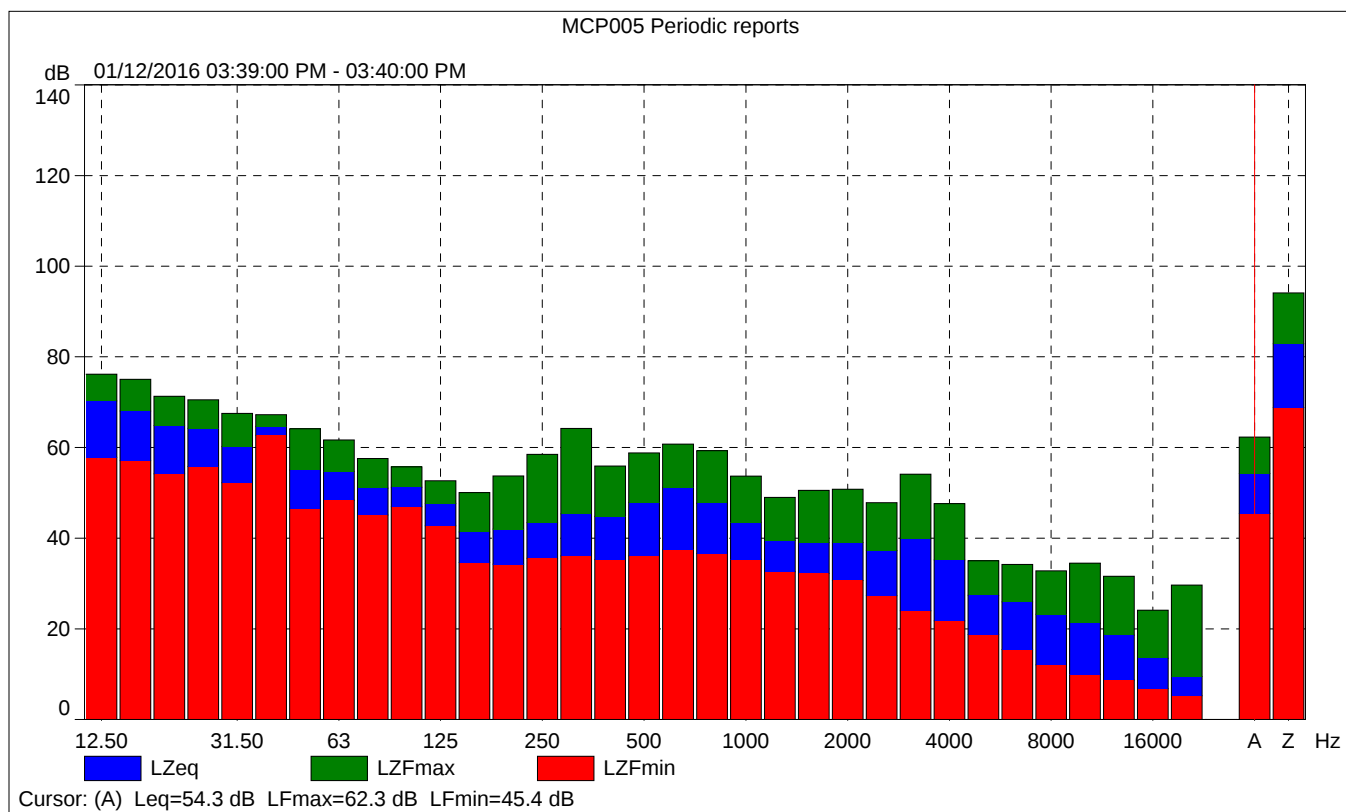
MCP005

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			57.1	59.7	46.0
Time	03:39:40 PM	0:00:10			
Date	01/12/2016				

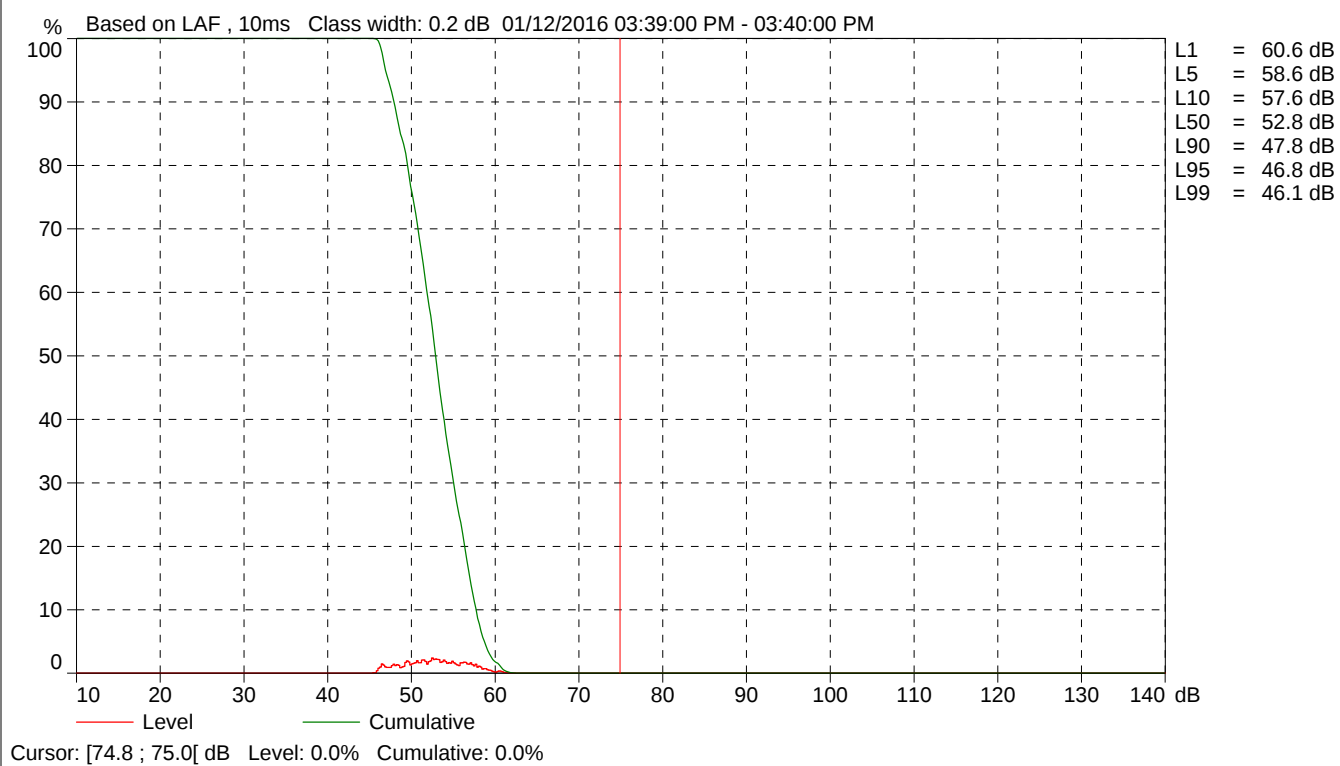


MCP005 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	57.6	62.3	45.4
Time	03:39:00 PM	0:01:00				
Date	01/12/2016					



MCP005 Periodic reports



Site Number: 6			
Recorded By: Eddie Torres			
Job Number: 151373			
Date: January 12, 2016			
Time: 3.46 pm			
Location: Adjacent to chiller units and equipment storage room (10 feet from chiller)			
Source of Peak Noise: Compressor actuation from the chiller			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
75.2	73.0	78.1	95.5

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	1/4/2016	
	Microphone	Brüel & Kjær	4189	2543364	1/4/2016	
	Preamp	Brüel & Kjær	ZC 0032	4265	1/4/2016	
	Calibrator	Brüel & Kjær	4231	2545667	1/4/2016	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀ Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.7		41.5		30.21	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		01/12/2016 15:46:47
End Time:		01/12/2016 15:51:47
Elapsed Time:		00:05:00
Bandwidth:		1/3-octave
Max Input Level:		138.75

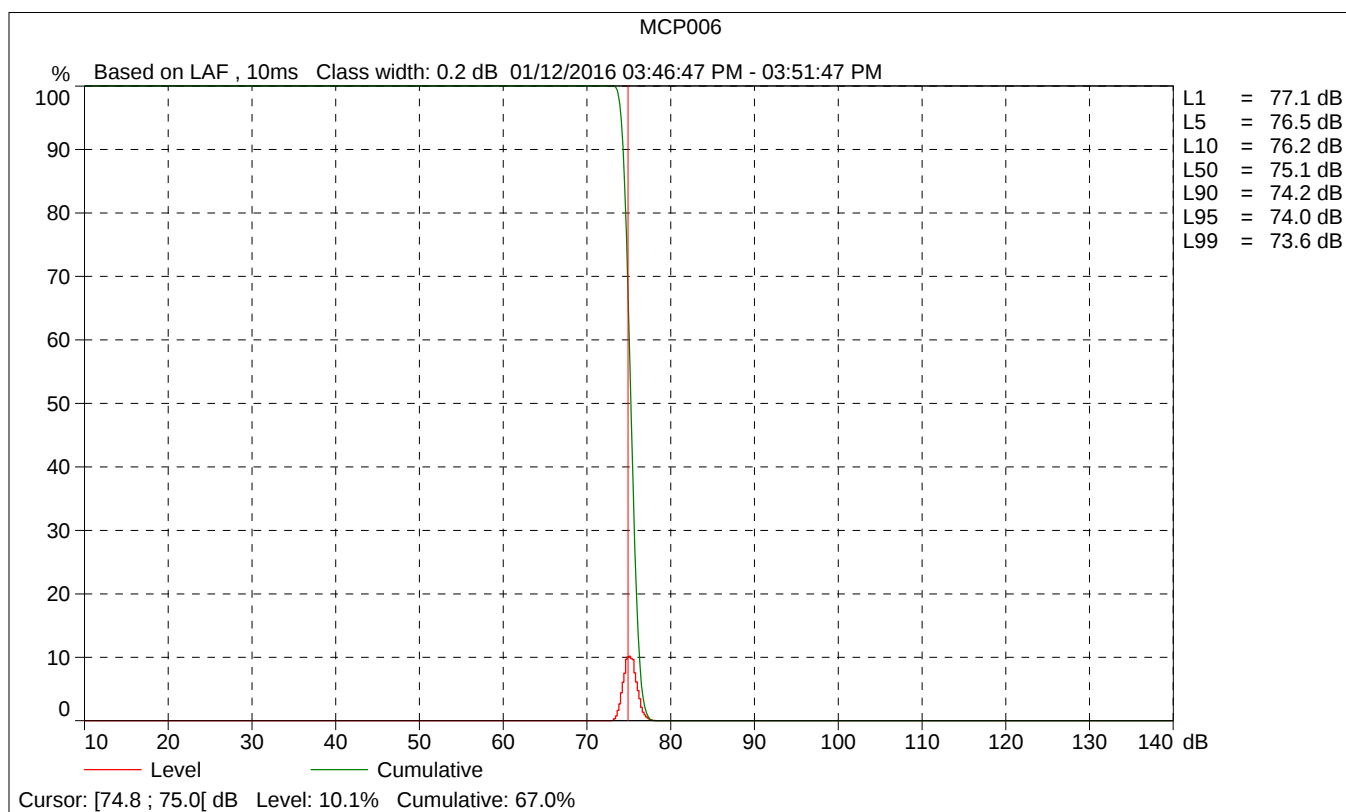
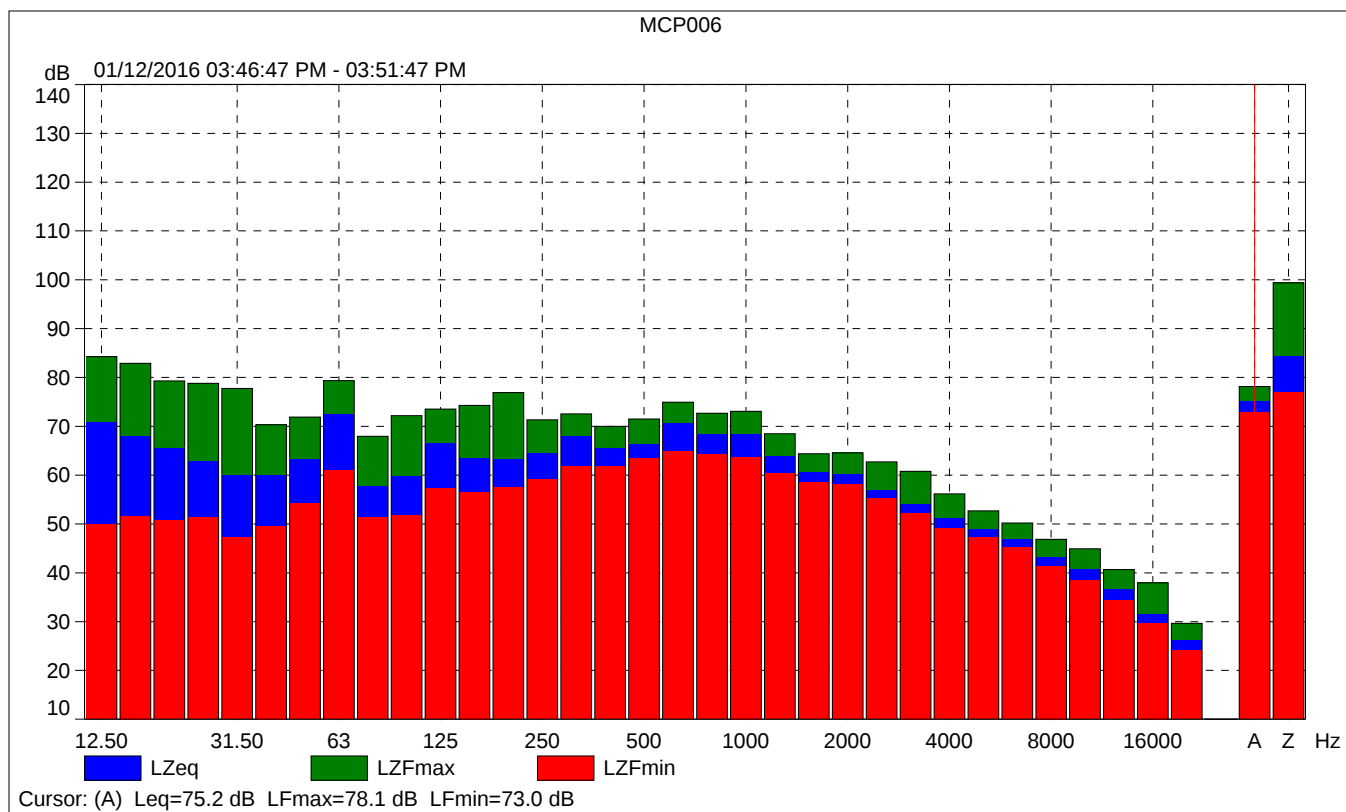
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

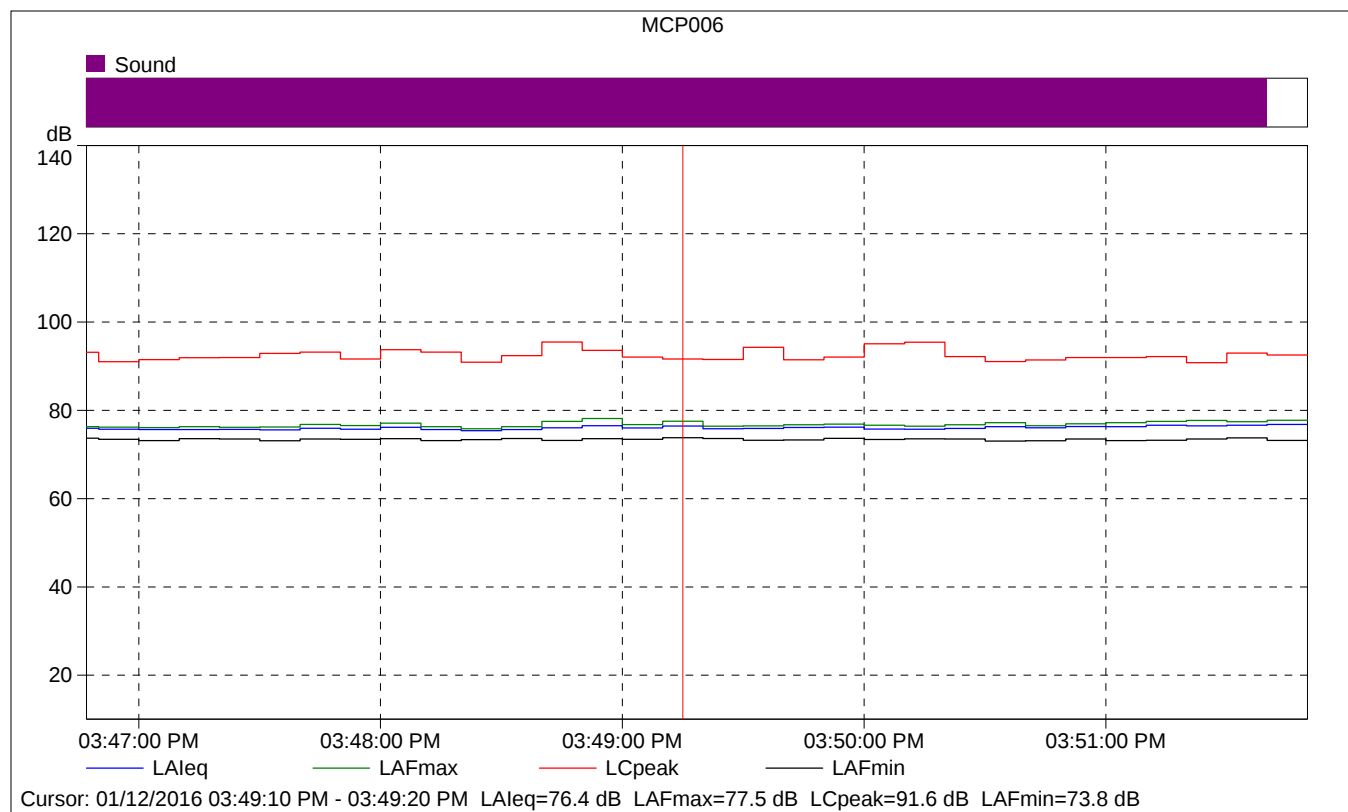
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		01/08/2016 16:38:05
Calibration Type:		External reference
Sensitivity:		64.3964111804962 mV/Pa

MCP006

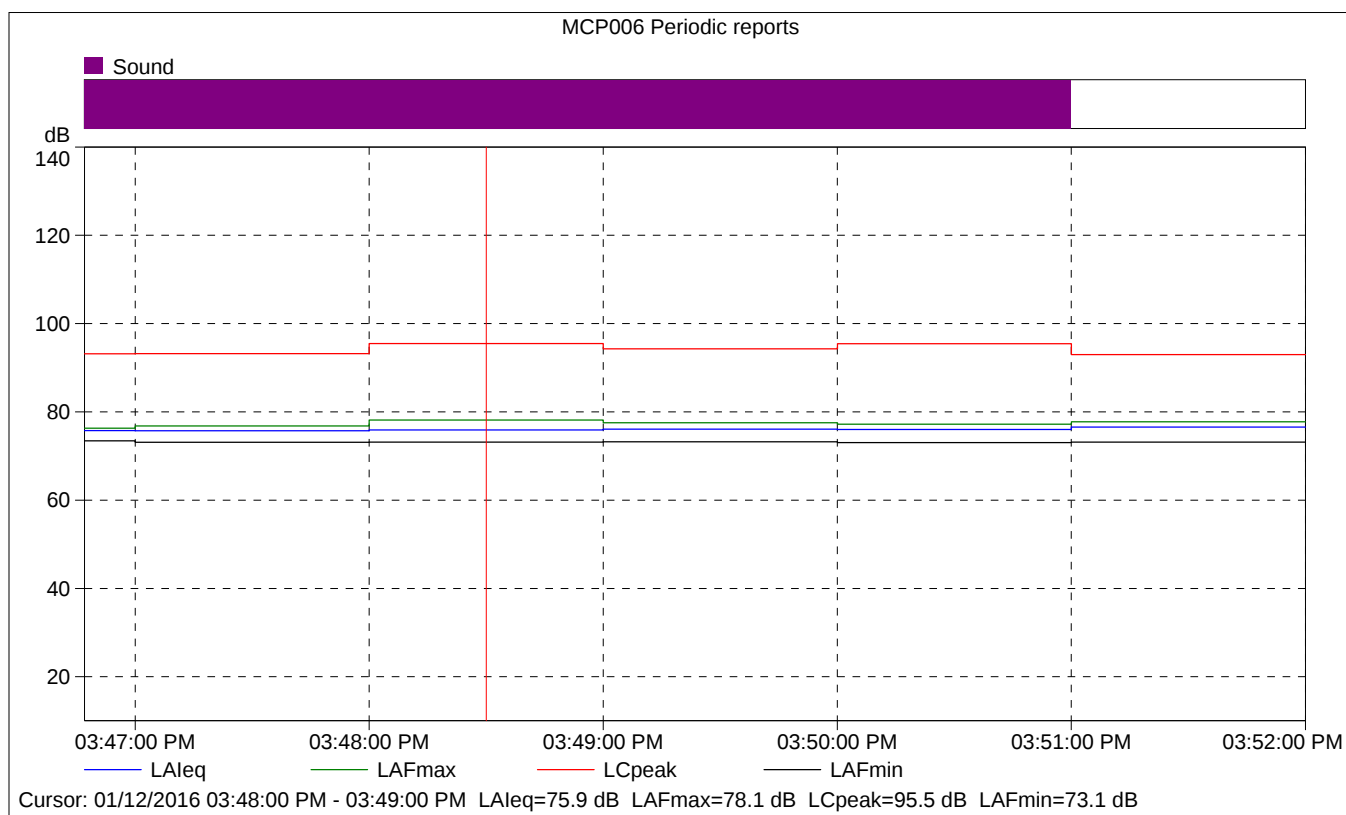
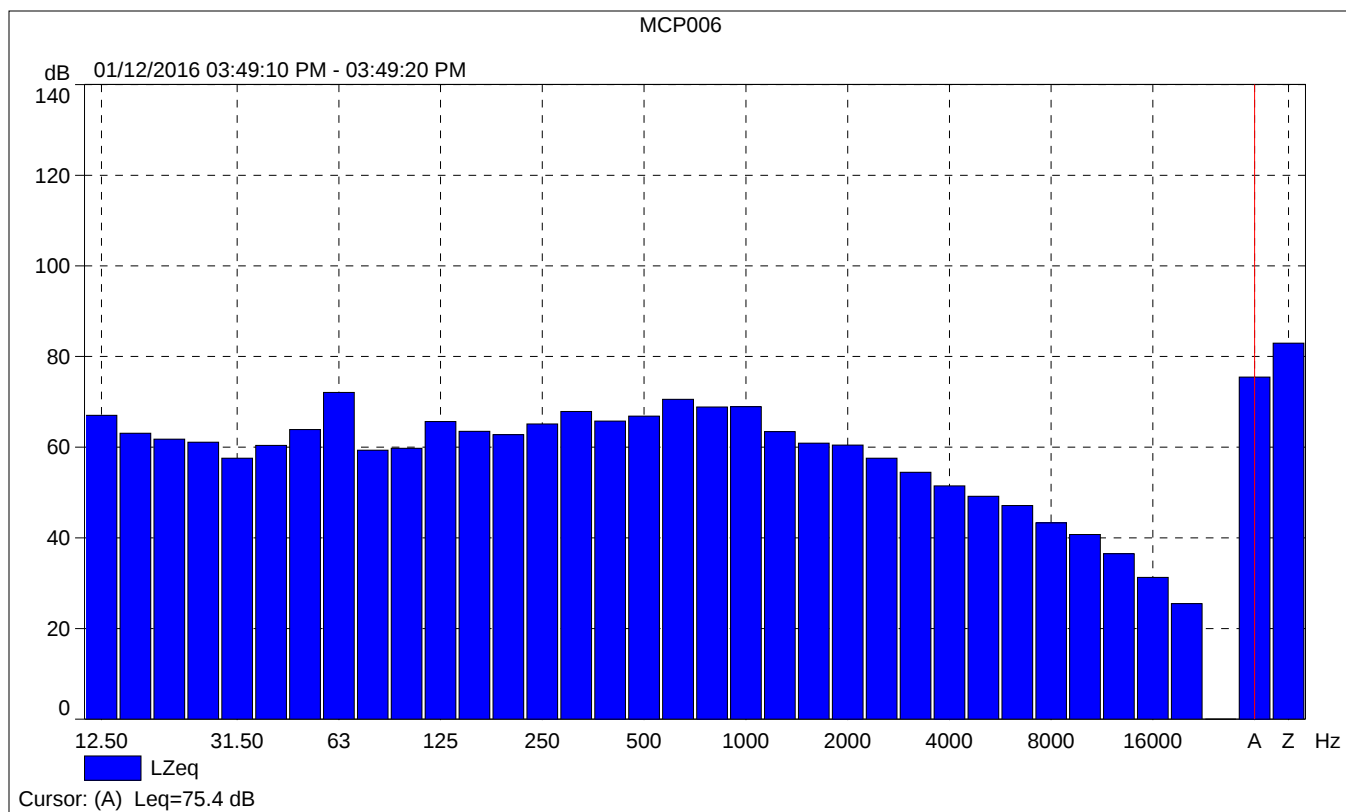
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	75.2	78.1	73.0
Time	03:46:47 PM	03:51:47 PM	0:05:00				
Date	01/12/2016	01/12/2016					





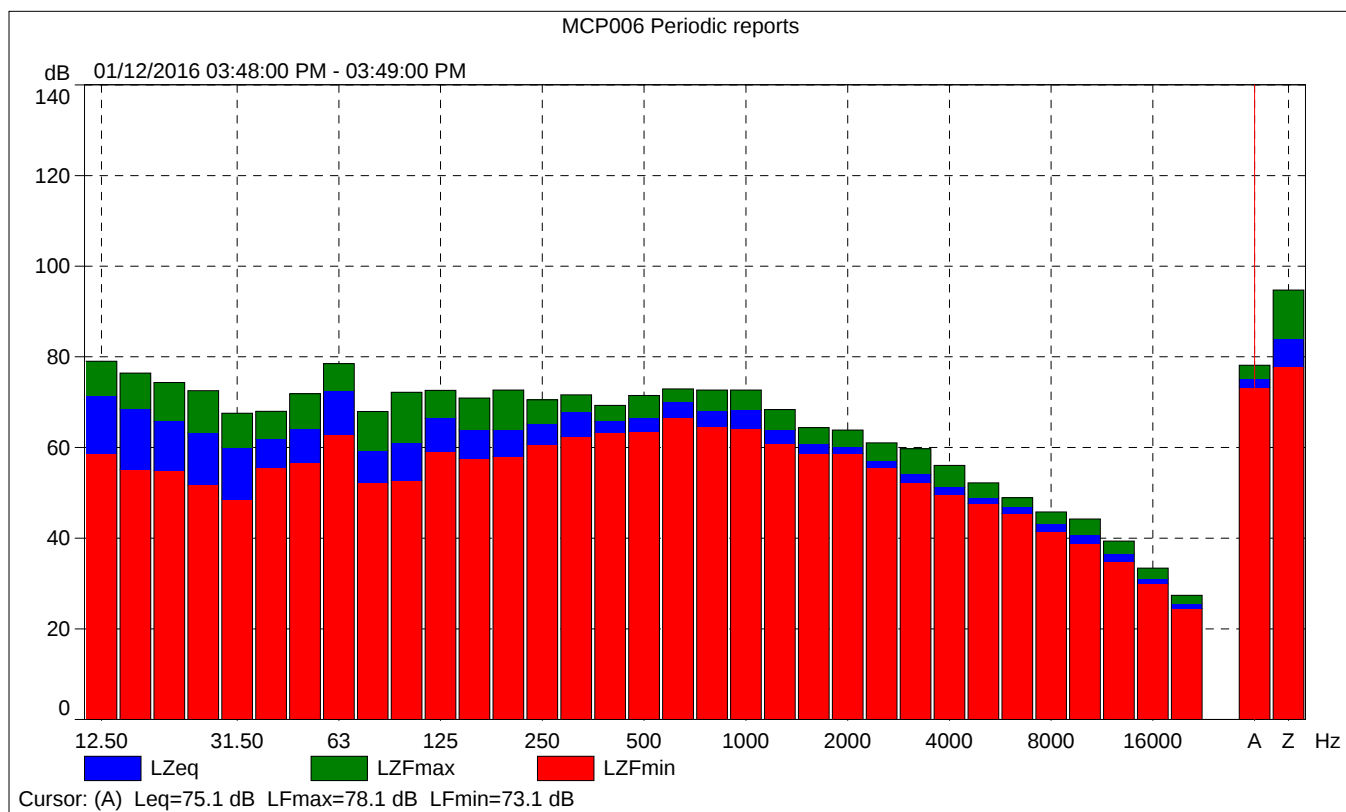
MCP006

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			76.4	77.5	73.8
Time	03:49:10 PM	0:00:10			
Date	01/12/2016				

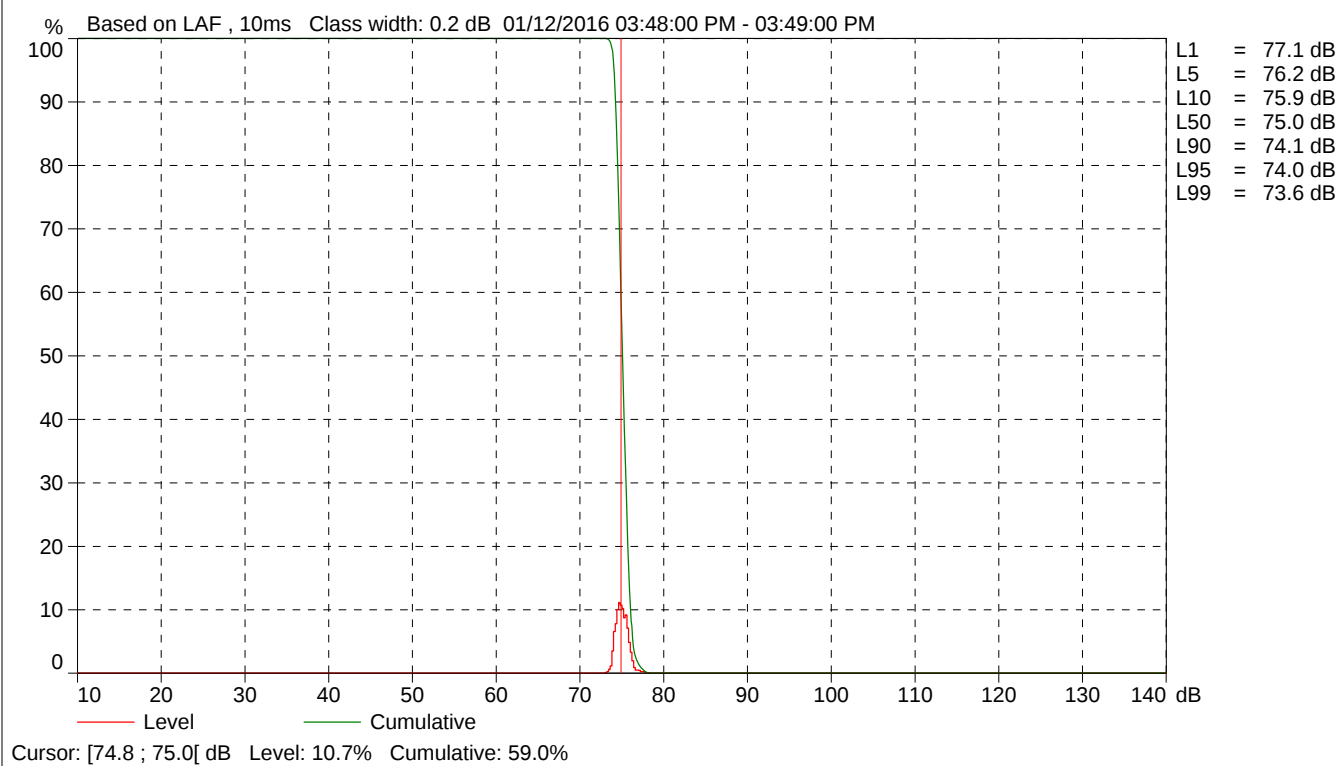


MCP006 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	75.9	78.1	73.1
Time	03:48:00 PM	0:01:00				
Date	01/12/2016					



MCP006 Periodic reports



Site Number: 7			
Recorded By: Eddie Torres			
Job Number: 151373			
Date: January 12, 2016			
Time: 7:48 pm			
Location: Existing skate rink during a hockey practice game (league play)			
Source of Peak Noise: Hockey puck shots, ricochet of puck off the sideboards.			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
69.6	50.1	99.4	104.3

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	1/4/2016	
	Microphone	Brüel & Kjær	4189	2543364	1/4/2016	
	Preamp	Brüel & Kjær	ZC 0032	4265	1/4/2016	
	Calibrator	Brüel & Kjær	4231	2545667	1/4/2016	
Weather Data						
Est.	Duration: 10 minutes			Sky: ☀ Sunny		
	Note: dBA Offset = 0.02			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	2.1		24.6		30.22	

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.4
Start Time:		01/12/2016 19:48:45
End Time:		01/12/2016 19:58:45
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		138.75

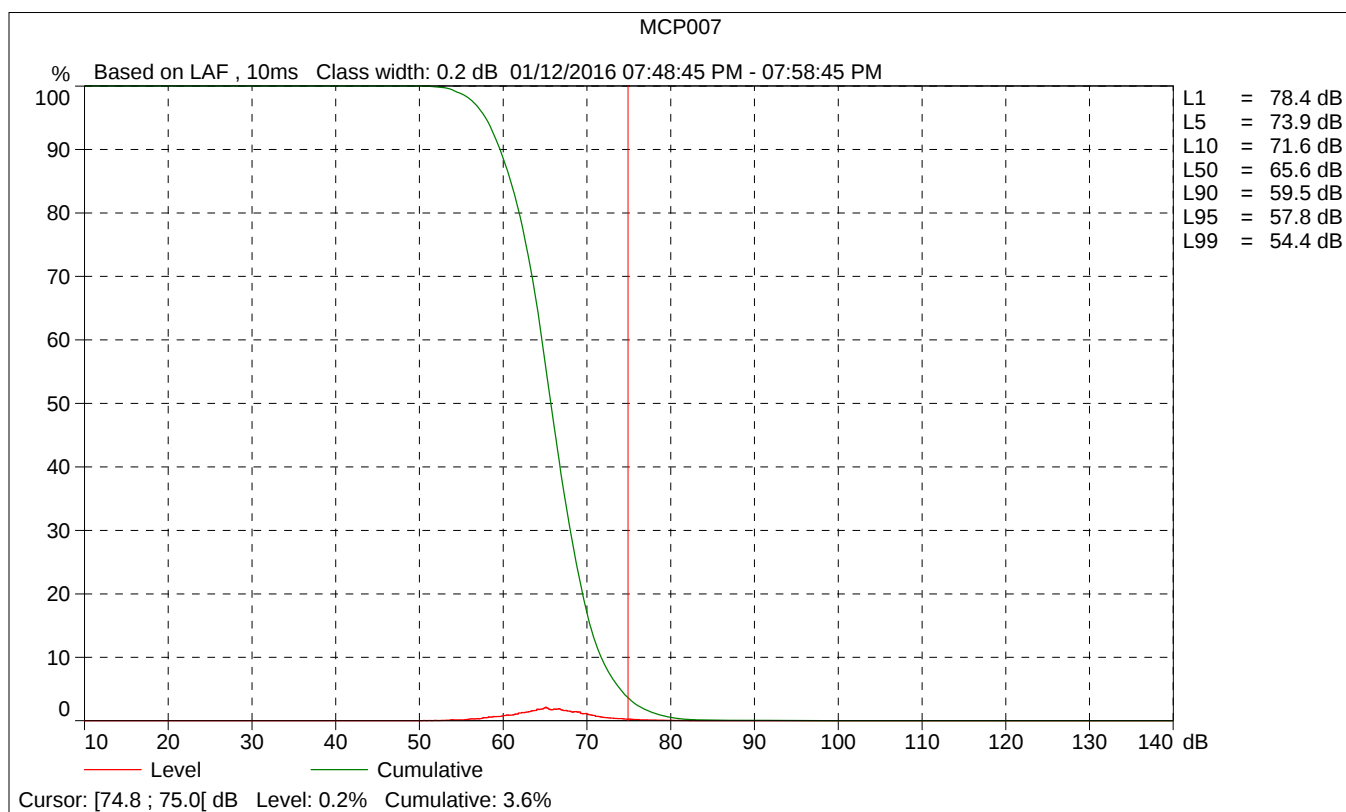
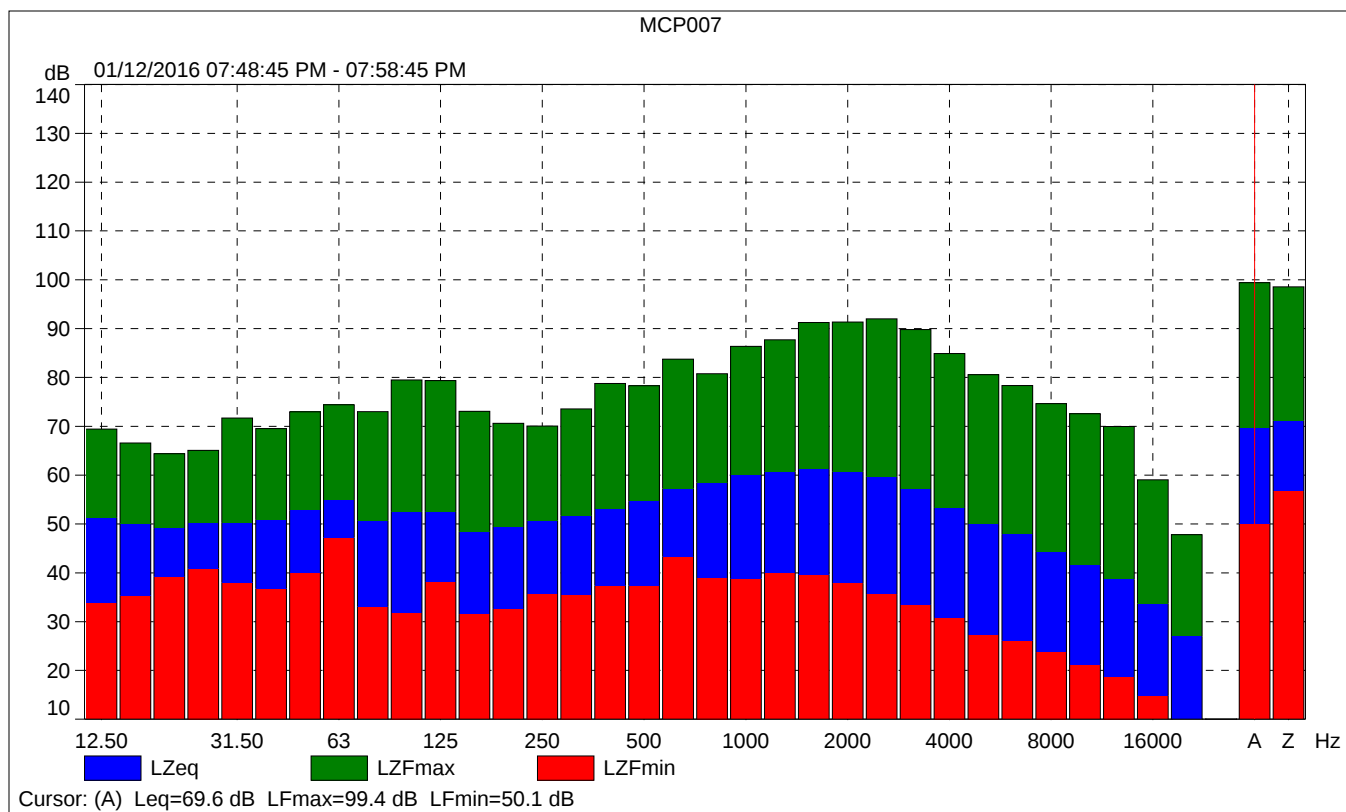
	Time	Frequency
Broadband (excl. Peak):	FSI	AZ
Broadband Peak:		C
Spectrum:	FS	Z

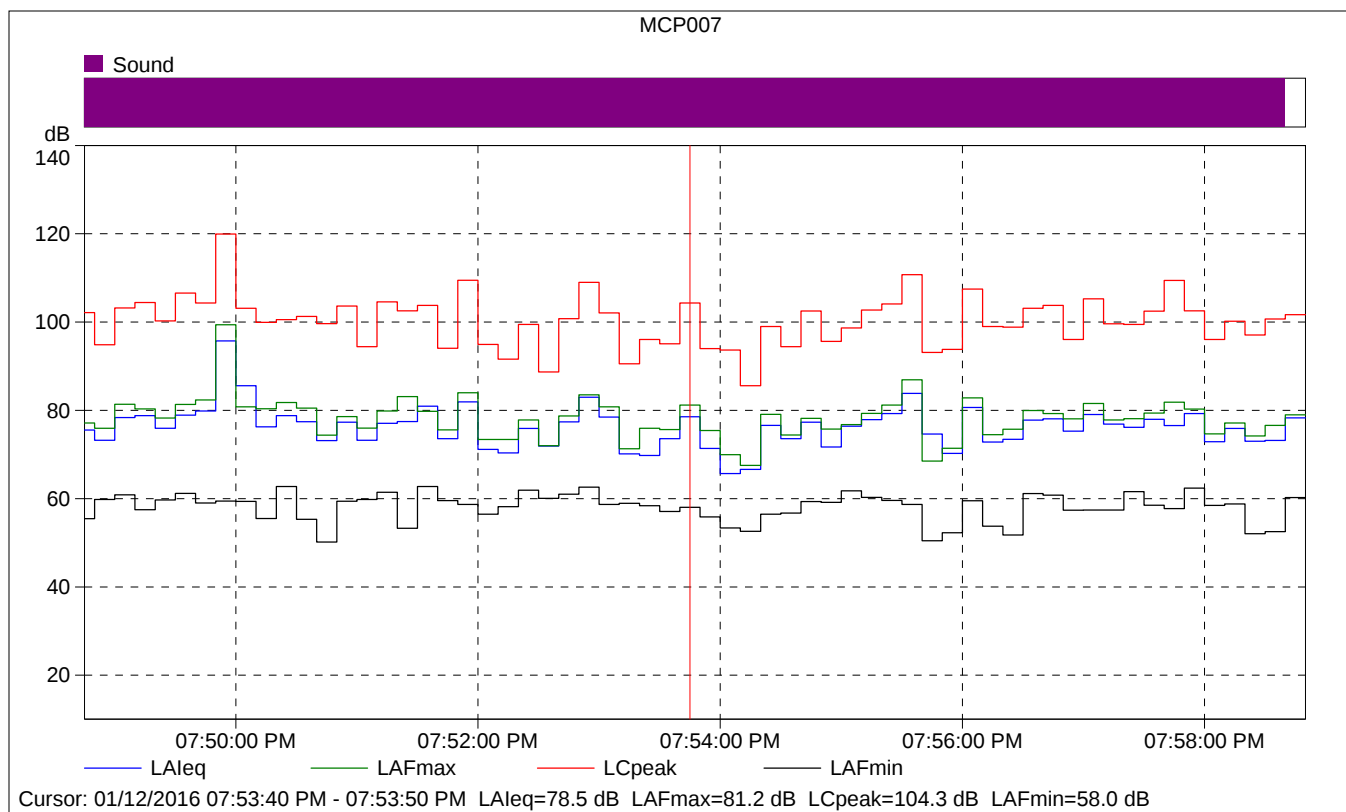
Instrument Serial Number:		2548189
Microphone Serial Number:		2543364
Input:		Top Socket
Windscreen Correction:		None
Sound Field Correction:		Free-field

Calibration Time:		01/08/2016 16:38:05
Calibration Type:		External reference
Sensitivity:		64.3964111804962 mV/Pa

MCP007

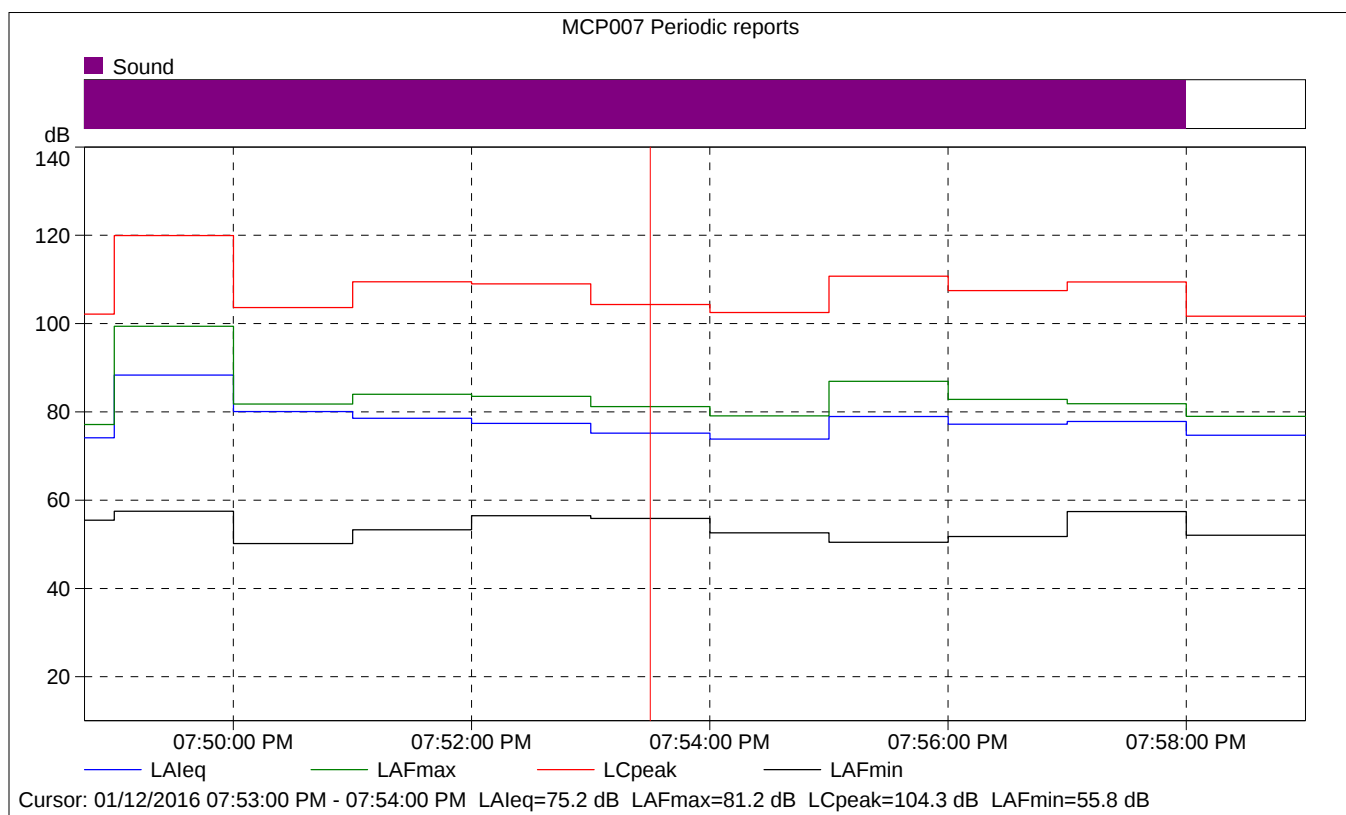
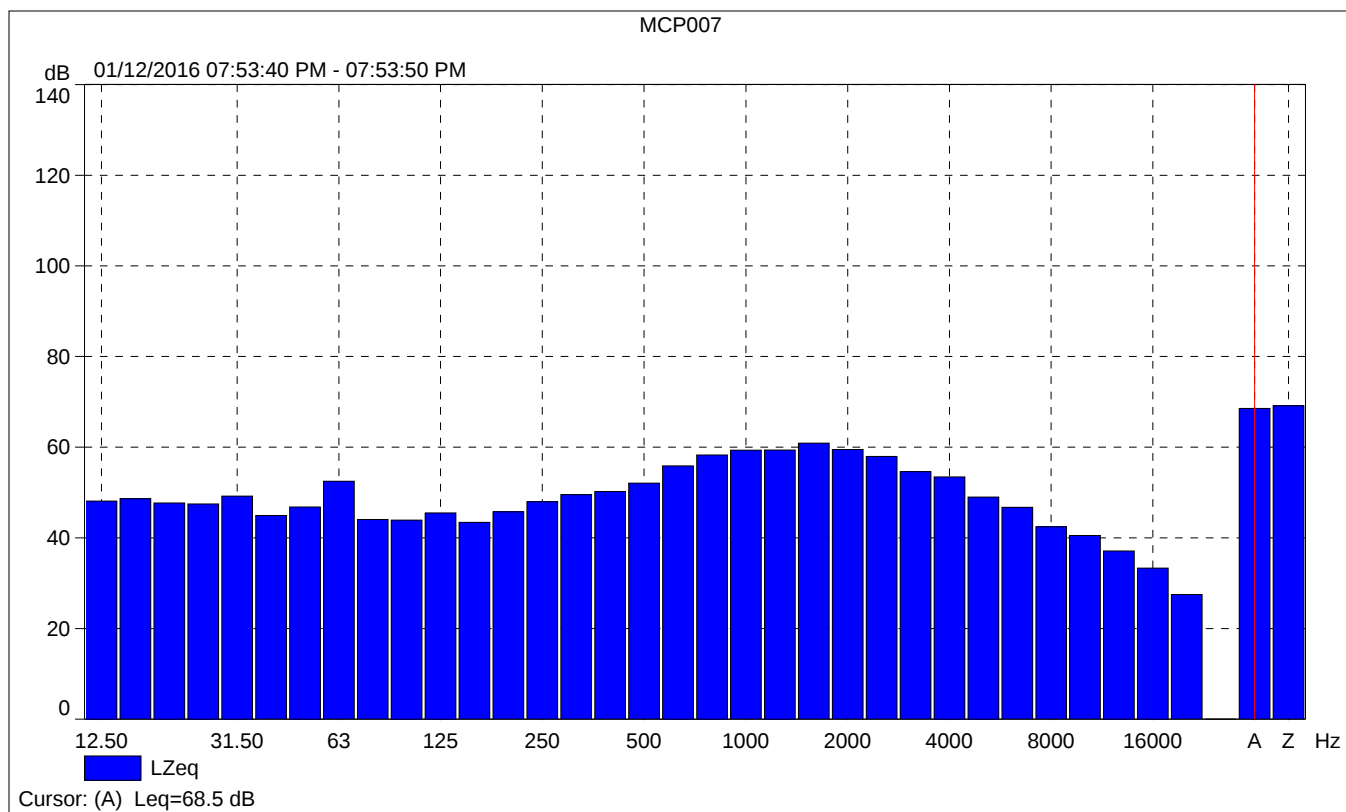
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	69.6	99.4	50.1
Time	07:48:45 PM	07:58:45 PM	0:10:00				
Date	01/12/2016	01/12/2016					





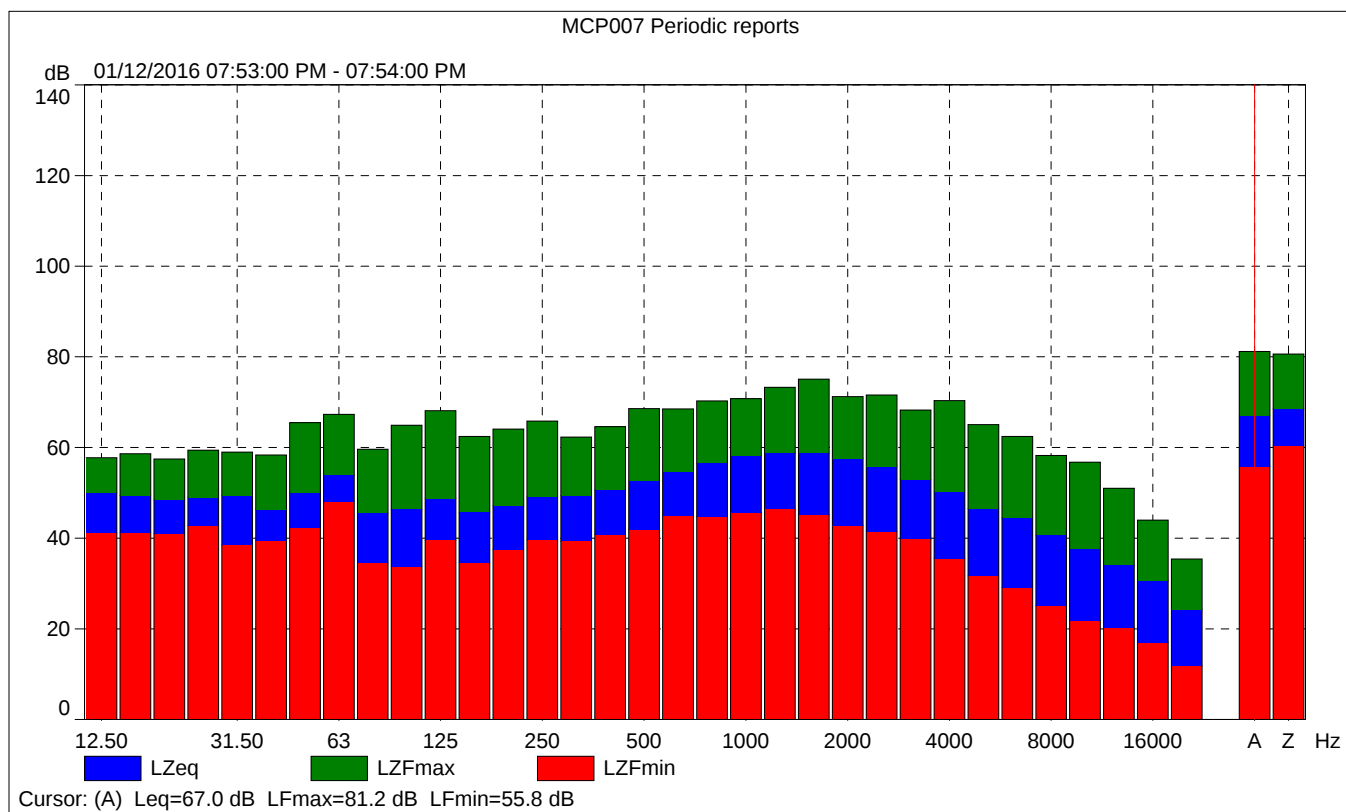
MCP007

	Start time	Elapsed time	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			78.5	81.2	58.0
Time	07:53:40 PM	0:00:10			
Date	01/12/2016				

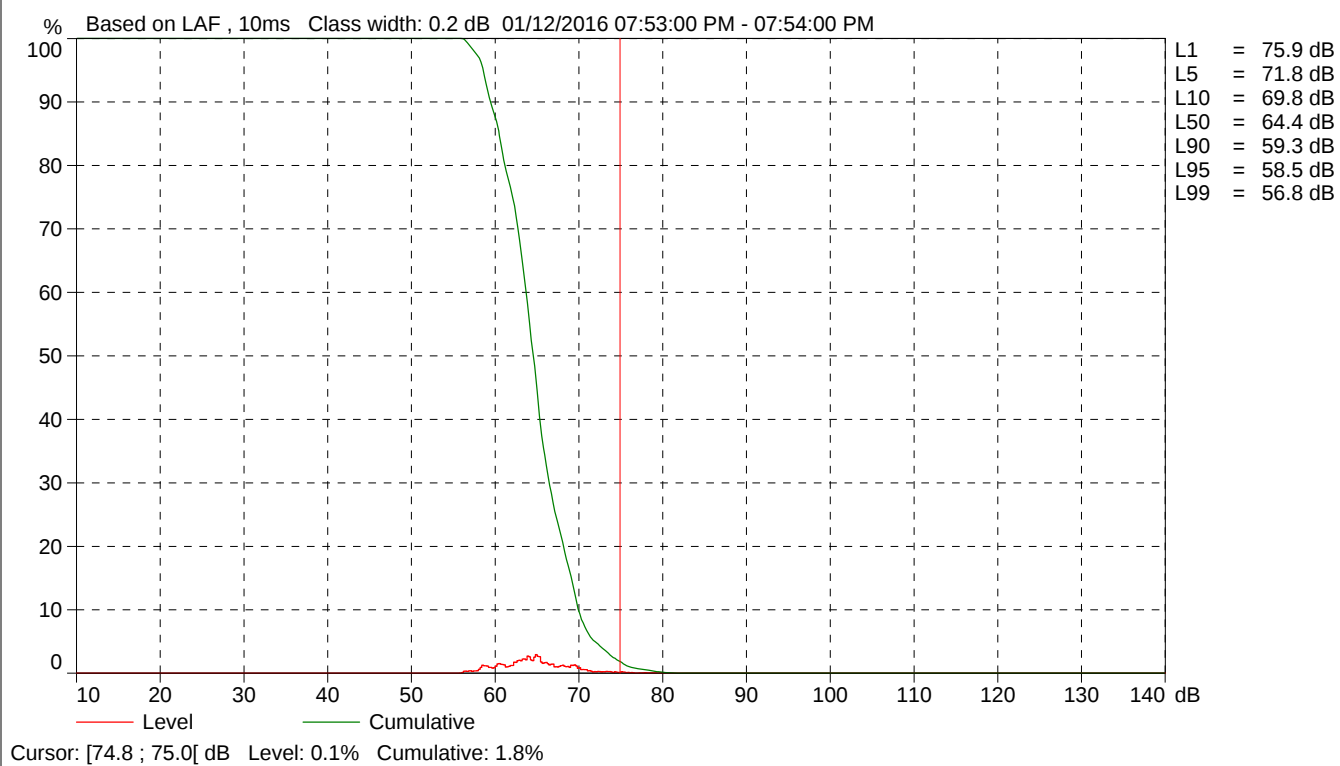


MCP007 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	75.2	81.2	55.8
Time	07:53:00 PM	0:01:00				
Date	01/12/2016					



MCP007 Periodic reports



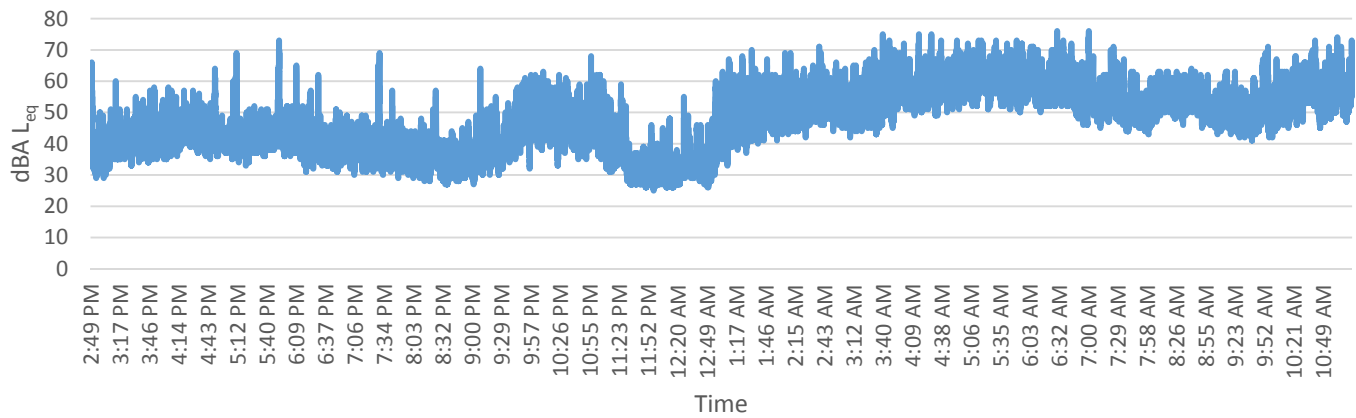
Site Number: Long Term 1			
Recorded By: Eddie Torres			
Job Number: 151373			
Date: January 12-13, 2016			
Time: setup = 2:49 pm (1/12/16), tear down = 11:19 am (1/13/16)			
Location: Mammoth Creek Park West, just east of La Vista Blanc Condominiums			
Source of Peak Noise:			
Noise Data			
Leq (dB)	Lmin (dB)	Lmax (dB)	Peak (dB)
55.1	15.7	80.1	102.9

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	2548189	1/4/2016	
	Microphone	Brüel & Kjær	4189	2543364	1/4/2016	
	Preamp	Brüel & Kjær	ZC 0032	4265	1/4/2016	
	Calibrator	Brüel & Kjær	4231	2545667	1/4/2016	
Weather Data						
Est.	Duration: 20 hours			Sky: ☀ Sunny		
	Note:			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	<5		23 – 45		30.25	

Photo of Measurement Location



Mammoth Creek Park West New Community Multi-Use Facilities
Long-Term Noise Measurement
January 12 - 13, 2015



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

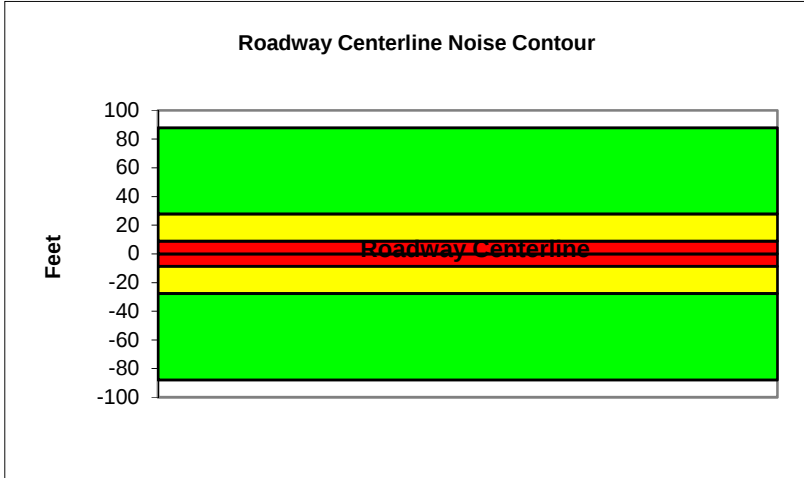
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Old Mammoth Road		
Road Segment:	North of Meridian Blvd		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade: 0				
Barrier (0=wall, 1= berm):	0	Average Daily Traffic: 10229				
Receiver Barrier Dist:	0	Peak Hour Traffic: 1022.9				
Centerline Dist. To Observer:	100	Vehicle Speed: 25				
Barrier Near Lane CL Dist:	0	Centerline Separation: 36				
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	45.7	54.5	52.7	46.6	55.3	55.9
Medium Trucks:	57.4	49.3	42.9	41.3	49.8	50.1
Heavy Trucks:	63.5	51.6	42.5	43.7	54.1	54.2
Vehicle Noise:	66.2	57.7	53.7	49.9	58.4	58.8

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	88
65 dBA	28
70 dBA	9
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

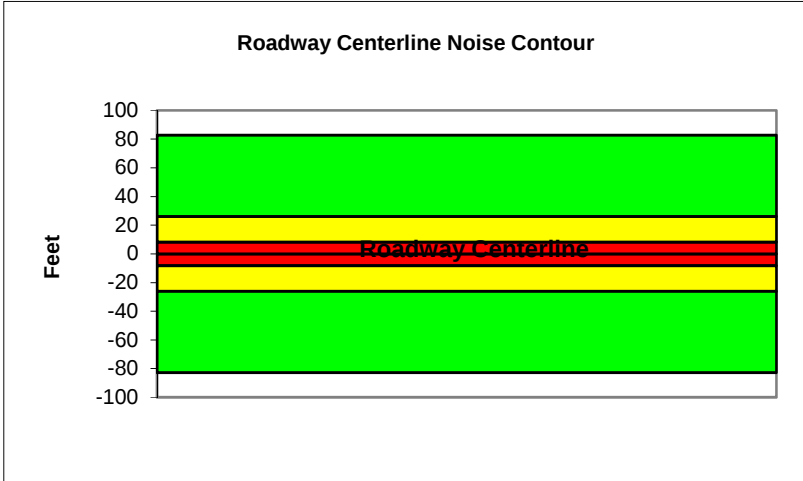
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Old Mammoth Road		
Road Segment:	Between Chateau and Meridian		

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0	-90	Road Grade:		0		
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:		9635		
Receiver Barrier Dist:	0		Peak Hour Traffic:		963.5		
Centerline Dist. To Observer:	100		Vehicle Speed:		25		
Barrier Near Lane CL Dist:	0		Centerline Separation:		36		
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742
Rt View:	90	Med. Truck	0.848	0.049	0.103	0.0184	
Lft View:		Heavy Truck	0.865	0.027	0.108	0.0074	
NOISE SOURCE ELEVATIONS (Feet)							
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	45.4	54.2	52.4	46.4	55.0	55.6
Medium Trucks:	57.1	49.0	42.6	41.1	49.6	49.8
Heavy Trucks:	63.2	51.3	42.3	43.5	53.9	54.0
Vehicle Noise:	65.9	57.5	53.4	49.6	58.1	58.5

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	83
65 dBA	26
70 dBA	8
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

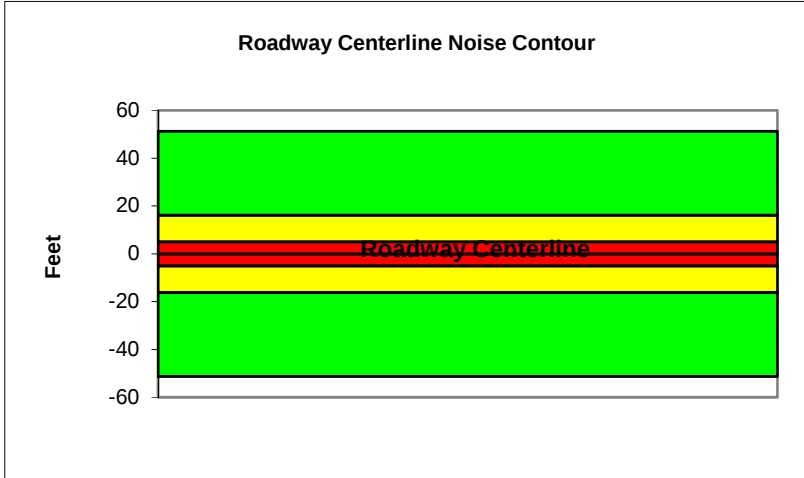
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Old Mammoth Road		
Road Segment:	South of Project Driveway		

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0	-90	Road Grade:		0		
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:		5968		
Receiver Barrier Dist:	0		Peak Hour Traffic:		596.8		
Centerline Dist. To Observer:	100		Vehicle Speed:		25		
Barrier Near Lane CL Dist:	0		Centerline Separation:		36		
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742
Rt View:	90	Lft View:	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	43.4	52.1	50.4	44.3	52.9	53.5
Medium Trucks:	55.0	46.9	40.6	39.0	47.5	47.7
Heavy Trucks:	61.2	49.2	40.2	41.4	51.8	51.9
Vehicle Noise:	63.8	55.4	51.4	47.5	56.1	56.4

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	51
65 dBA	16
70 dBA	5
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

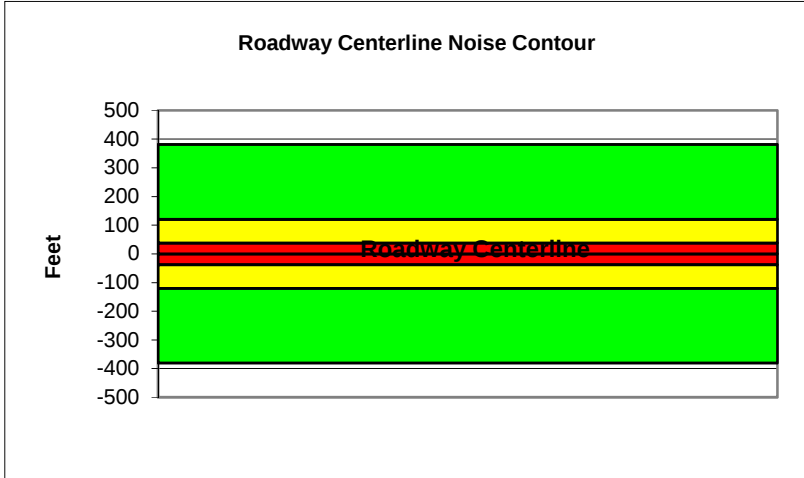
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Meridian Boulevard		
Road Segment:	West of Old Mammoth Road		

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0	-90	Road Grade: 0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic: 16239				
Receiver Barrier Dist:	0		Peak Hour Traffic: 1623.9				
Centerline Dist. To Observer:	100		Vehicle Speed: 40				
Barrier Near Lane CL Dist:	0		Centerline Separation: 36				
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View:	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	53.6	62.4	60.6	54.5	63.2	63.8
Medium Trucks:	62.5	54.5	48.1	46.5	55.0	55.2
Heavy Trucks:	67.4	55.5	46.4	47.6	57.3	57.5
Vehicle Noise:	69.8	64.0	61.0	56.1	64.7	65.1

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	381
65 dBA	120
70 dBA	38
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

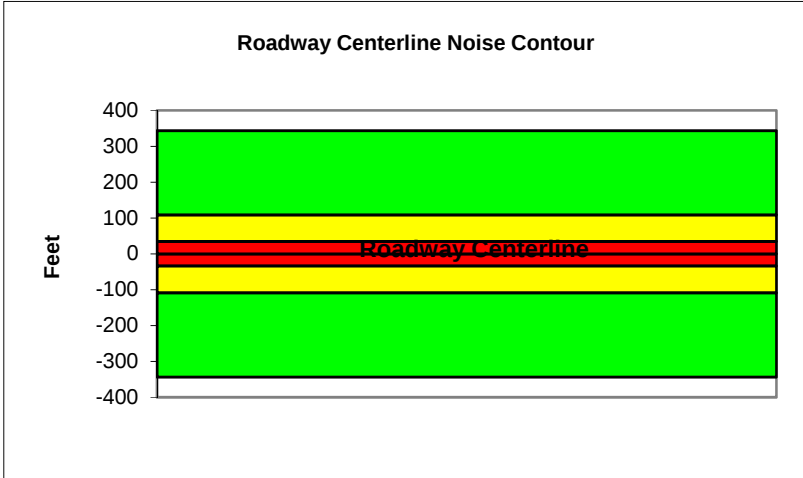
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Meridian Boulevard		
Road Segment:	East of Old Mammoth Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade: 0				
Barrier (0=wall, 1= berm):	0	Average Daily Traffic: 14649				
Receiver Barrier Dist:	0	Peak Hour Traffic: 1464.9				
Centerline Dist. To Observer:	100	Vehicle Speed: 40				
Barrier Near Lane CL Dist:	0	Centerline Separation: 36				
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	53.1	61.9	60.1	54.1	62.7	63.3
Medium Trucks:	62.1	54.0	47.6	46.1	54.6	54.8
Heavy Trucks:	66.9	55.0	46.0	47.2	56.9	57.0
Vehicle Noise:	69.3	63.5	60.6	55.6	64.2	64.7

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	343
65 dBA	109
70 dBA	34
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

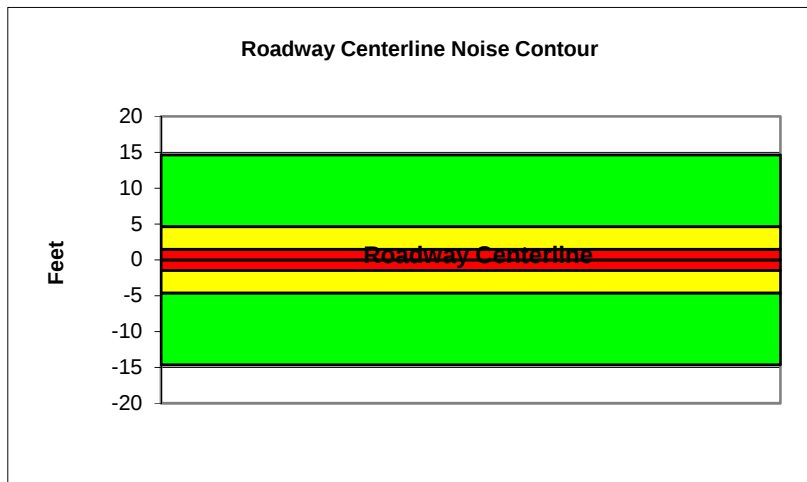
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Existing
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Chateau Road		
Road Segment:	West of Old Mammoth Road		

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0	-90	Road Grade: 0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic: 1707				
Receiver Barrier Dist:	0		Peak Hour Traffic: 170.7				
Centerline Dist. To Observer:	100		Vehicle Speed: 25				
Barrier Near Lane CL Dist:	0		Centerline Separation: 24				
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	38.1	46.9	45.1	39.0	47.7	48.3
Medium Trucks:	49.8	41.7	35.3	33.8	42.2	42.5
Heavy Trucks:	55.9	44.0	34.9	36.2	46.5	46.7
Vehicle Noise:	58.6	50.2	46.1	42.3	50.8	51.2

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	15
65 dBA	5
70 dBA	1
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Old Mammoth Road		
Road Segment:	North of Meridian Blvd		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade: 0				
Barrier (0=wall, 1= berm):	0	Average Daily Traffic: 11713				
Receiver Barrier Dist:	0	Peak Hour Traffic: 1171.3				
Centerline Dist. To Observer:	100	Vehicle Speed: 25				
Barrier Near Lane CL Dist:	0	Centerline Separation: 36				
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)

Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.3	55.1	53.3	47.2	55.9	56.5
Medium Trucks:	57.9	49.9	43.5	41.9	50.4	50.6
Heavy Trucks:	64.1	52.2	43.1	44.3	54.7	54.8
Vehicle Noise:	66.8	58.3	54.3	50.5	59.0	59.4

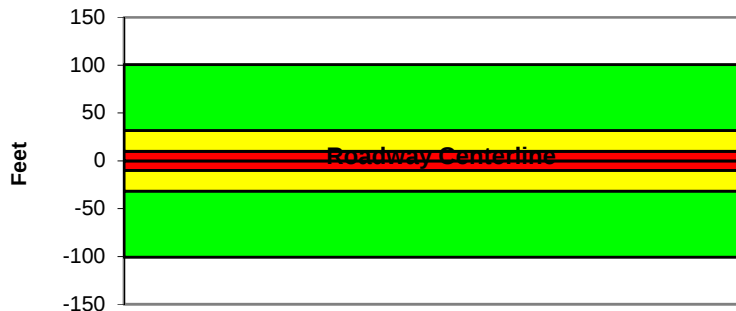
MITIGATED NOISE LEVELS (With topographic or barrier attenuation)

Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR

Unmitigated	
60 dBA	101
65 dBA	32
70 dBA	10
Mitigated	
60 dBA	
65 dBA	
70 dBA	

Roadway Centerline Noise Contour



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

Project Name: Mammoth Multi-Use Facilities
Analyst: Achilles Malisos
Roadway: Old Mammoth Road
Road Segment: Between Chateau and Meridian

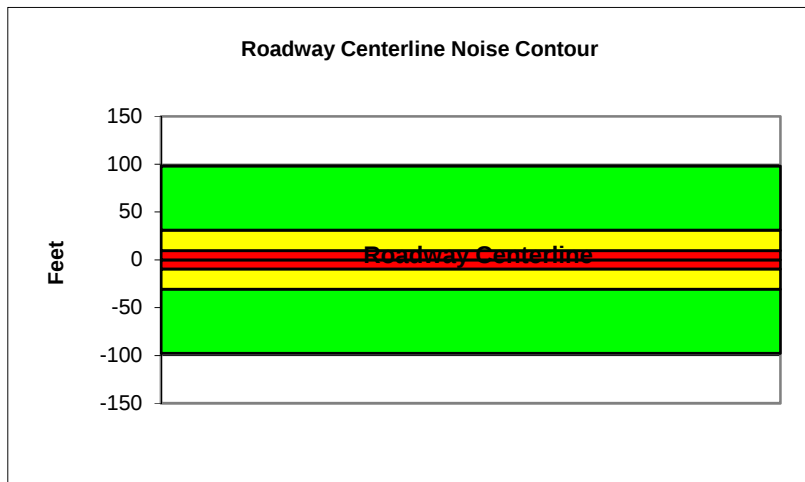
Scenario: Future
Job #: 151373

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0		Road Grade:		0		
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:		11395		
Receiver Barrier Dist:	0		Peak Hour Traffic:		1139.5		
Centerline Dist. To Observer:	100		Vehicle Speed:		25		
Barrier Near Lane CL Dist:	0		Centerline Separation:		36		
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742
Rt View:	90	Lft View:	Med. Truck	0.848	0.049	0.103	0.0184
		-90	Heavy Truck	0.865	0.027	0.108	0.0074
NOISE SOURCE ELEVATIONS (Feet)							
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.2	55.0	53.2	47.1	55.7	56.3
Medium Trucks:	57.8	49.8	43.4	41.8	50.3	50.5
Heavy Trucks:	64.0	52.0	43.0	44.2	54.6	54.7
Vehicle Noise:	66.6	58.2	54.2	50.3	58.9	59.2

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	98
65 dBA	31
70 dBA	10
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

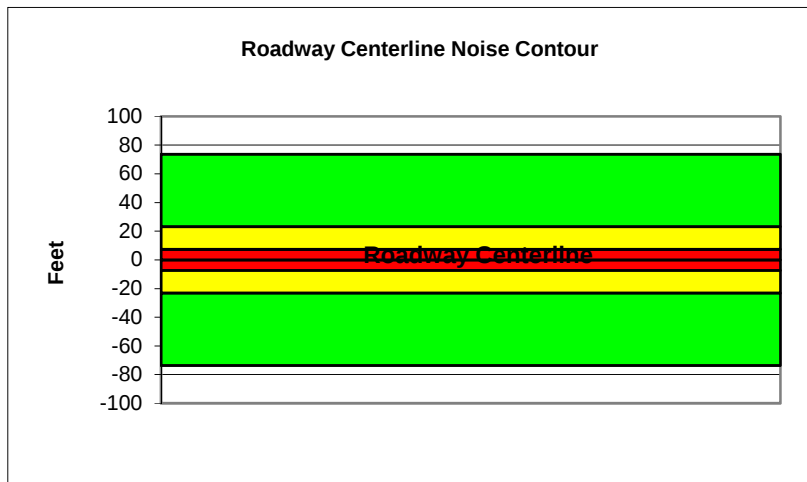
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Old Mammoth Road		
Road Segment:	South of Project Driveway		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade: 0				
Barrier (0=wall, 1= berm):	0	Average Daily Traffic: 8575				
Receiver Barrier Dist:	0	Peak Hour Traffic: 857.5				
Centerline Dist. To Observer:	100	Vehicle Speed: 25				
Barrier Near Lane CL Dist:	0	Centerline Separation: 36				
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	44.9	53.7	51.9	45.8	54.5	55.1
Medium Trucks:	56.6	48.5	42.1	40.6	49.1	49.3
Heavy Trucks:	62.7	50.8	41.7	43.0	53.4	53.5
Vehicle Noise:	65.4	57.0	52.9	49.1	57.6	58.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	74
65 dBA	23
70 dBA	7
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

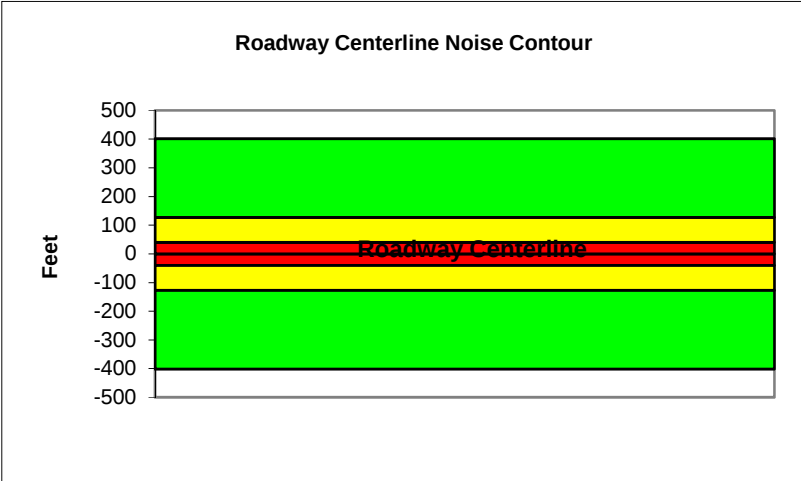
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Meridian Boulevard		
Road Segment:	West of Old Mammoth Road		

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0	-90	Road Grade: 0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic: 17119				
Receiver Barrier Dist:	0		Peak Hour Traffic: 1711.9				
Centerline Dist. To Observer:	100		Vehicle Speed: 40				
Barrier Near Lane CL Dist:	0		Centerline Separation: 36				
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0		Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View:	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	53.8	62.6	60.8	54.7	63.4	64.0
Medium Trucks:	62.8	54.7	48.3	46.8	55.2	55.5
Heavy Trucks:	67.6	55.7	46.6	47.8	57.6	57.7
Vehicle Noise:	70.0	64.2	61.3	56.3	64.9	65.4

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	402
65 dBA	127
70 dBA	40
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

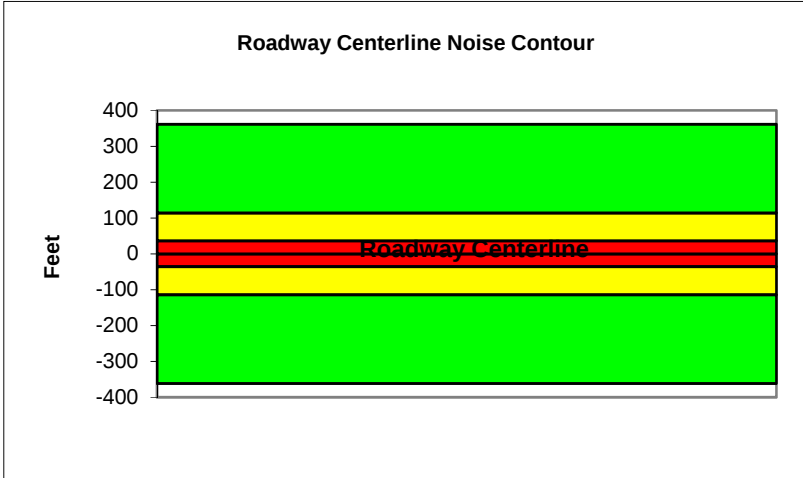
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Meridian Boulevard		
Road Segment:	East of Old Mammoth Road		

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0	-90	Road Grade: 0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic: 15423				
Receiver Barrier Dist:	0		Peak Hour Traffic: 1542.3				
Centerline Dist. To Observer:	100		Vehicle Speed: 40				
Barrier Near Lane CL Dist:	0		Centerline Separation: 36				
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	53.4	62.1	60.4	54.3	62.9	63.5
Medium Trucks:	62.3	54.3	47.9	46.3	54.8	55.0
Heavy Trucks:	67.2	55.2	46.2	47.4	57.1	57.2
Vehicle Noise:	69.5	63.7	60.8	55.9	64.4	64.9

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	361
65 dBA	114
70 dBA	36
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

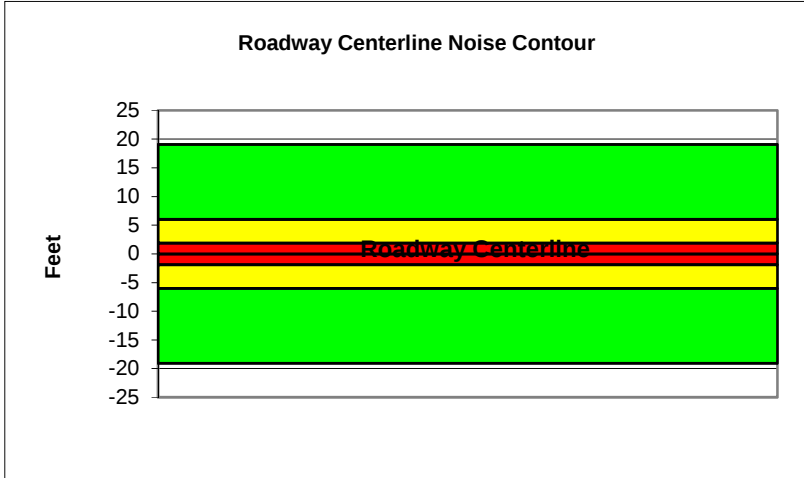
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Chateau Road		
Road Segment:	West of Old Mammoth Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade: 0				
Barrier (0=wall, 1= berm):	0	Average Daily Traffic: 2226				
Receiver Barrier Dist:	0	Peak Hour Traffic: 222.6				
Centerline Dist. To Observer:	100	Vehicle Speed: 25				
Barrier Near Lane CL Dist:	0	Centerline Separation: 24				
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	39.3	48.1	46.3	40.2	48.8	49.4
Medium Trucks:	50.9	42.9	36.5	34.9	43.4	43.6
Heavy Trucks:	57.1	45.1	36.1	37.3	47.7	47.8
Vehicle Noise:	59.7	51.3	47.3	43.4	52.0	52.3

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	19
65 dBA	6
70 dBA	2
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

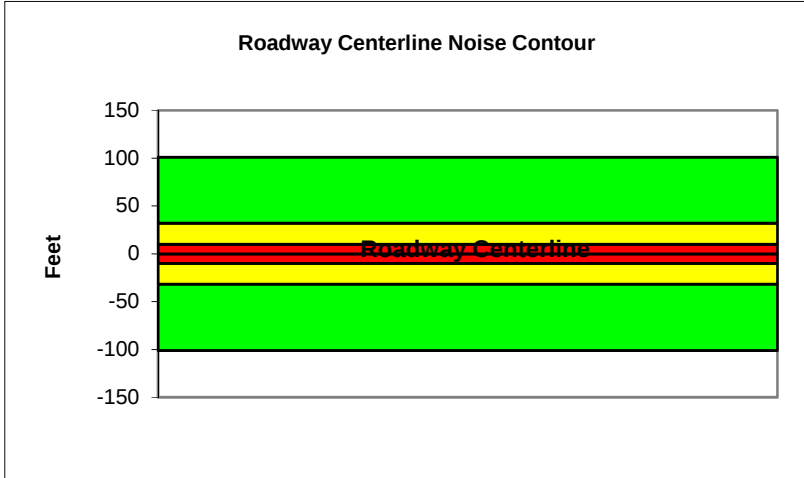
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Old Mammoth Road		
Road Segment:	North of Meridian Blvd		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade: 0				
Barrier (0=wall, 1= berm):	0	Average Daily Traffic: 11776				
Receiver Barrier Dist:	0	Peak Hour Traffic: 1177.6				
Centerline Dist. To Observer:	100	Vehicle Speed: 25				
Barrier Near Lane CL Dist:	0	Centerline Separation: 36				
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.3	55.1	53.3	47.2	55.9	56.5
Medium Trucks:	58.0	49.9	43.5	41.9	50.4	50.7
Heavy Trucks:	64.1	52.2	43.1	44.3	54.7	54.9
Vehicle Noise:	66.8	58.3	54.3	50.5	59.0	59.4

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	101
65 dBA	32
70 dBA	10
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

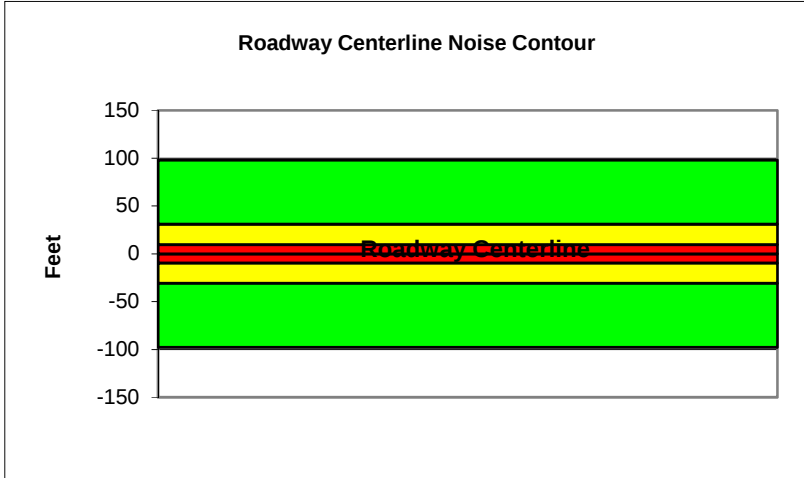
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Old Mammoth Road		
Road Segment:	Between Chateau and Meridian		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	11403			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1140.3			
Centerline Dist. To Observer:	100	Vehicle Speed:	25			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90	Lft View: -90	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	46.2	55.0	53.2	47.1	55.7	56.3
Medium Trucks:	57.8	49.8	43.4	41.8	50.3	50.5
Heavy Trucks:	64.0	52.0	43.0	44.2	54.6	54.7
Vehicle Noise:	66.6	58.2	54.2	50.3	58.9	59.2

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	98
65 dBA	31
70 dBA	10
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

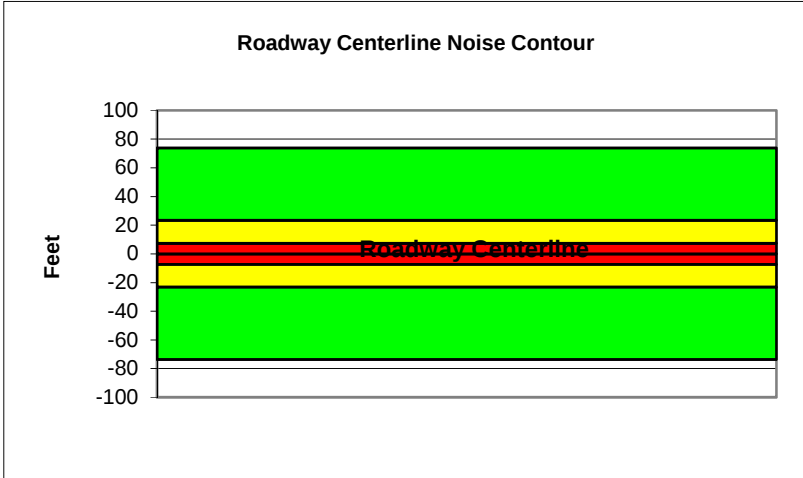
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Old Mammoth Road		
Road Segment:	South of Project Driveway		

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0	-90	Road Grade:		0		
Barrier (0=wall, 1= berm):	0		Average Daily Traffic:		8603		
Receiver Barrier Dist:	0		Peak Hour Traffic:		860.3		
Centerline Dist. To Observer:	100		Vehicle Speed:		25		
Barrier Near Lane CL Dist:	0		Centerline Separation:		36		
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742	
Rt View:	90	Lft View:	Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	45.0	53.7	51.9	45.9	54.5	55.1
Medium Trucks:	56.6	48.5	42.2	40.6	49.1	49.3
Heavy Trucks:	62.8	50.8	41.8	43.0	53.4	53.5
Vehicle Noise:	65.4	57.0	52.9	49.1	57.6	58.0

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	74
65 dBA	23
70 dBA	7
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

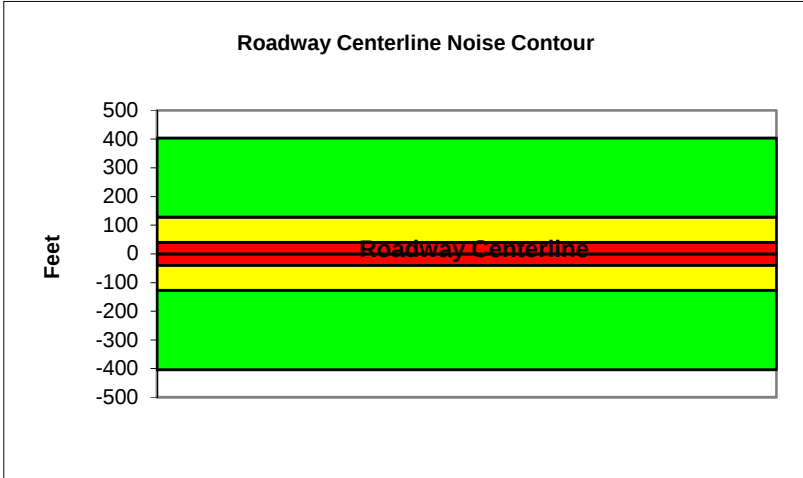
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Meridian Boulevard		
Road Segment:	West of Old Mammoth Road		

PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	17216			
Receiver Barrier Dist:	0	Peak Hour Traffic:	1721.6			
Centerline Dist. To Observer:	100	Vehicle Speed:	40			
Barrier Near Lane CL Dist:	0	Centerline Separation:	36			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	53.8	62.6	60.8	54.8	63.4	64.0
Medium Trucks:	62.8	54.7	48.3	46.8	55.3	55.5
Heavy Trucks:	67.6	55.7	46.7	47.9	57.6	57.7
Vehicle Noise:	70.0	64.2	61.3	56.3	64.9	65.4

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	403
65 dBA	128
70 dBA	40
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

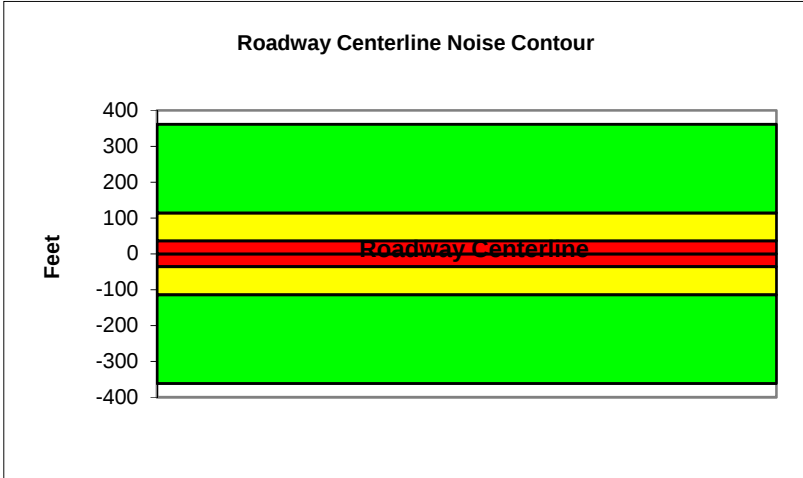
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Meridian Boulevard		
Road Segment:	East of Old Mammoth Road		

PROJECT DATA			SITE DATA				
Centerline Dist to Barrier	0	-90	Road Grade: 0				
Barrier (0=wall, 1= berm):	0		Average Daily Traffic: 15429				
Receiver Barrier Dist:	0		Peak Hour Traffic: 1542.9				
Centerline Dist. To Observer:	100		Vehicle Speed: 40				
Barrier Near Lane CL Dist:	0		Centerline Separation: 36				
Barrier Far lane CL Dist:	0		NOISE INPUTS				
Pad Elevation:	0.5		Site conditions HARD SITE				
Road Elevation:	0		FLEET MIX				
Observer Height (above grade):	0		Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742	
Rt View: 90	Lft View:	Med. Truck	0.848	0.049	0.103	0.0184	
NOISE SOURCE ELEVATIONS (Feet)			Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0						
Medium Trucks:	2.3						
Heavy Trucks:	8						

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	53.4	62.1	60.4	54.3	62.9	63.5
Medium Trucks:	62.3	54.3	47.9	46.3	54.8	55.0
Heavy Trucks:	67.2	55.2	46.2	47.4	57.1	57.2
Vehicle Noise:	69.5	63.7	60.8	55.9	64.4	64.9

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	361
65 dBA	114
70 dBA	36
Mitigated	
60 dBA	
65 dBA	
70 dBA	



**Federal Highway Administration RD-77-108
Traffic Noise Prediction Model (CALVENO)**

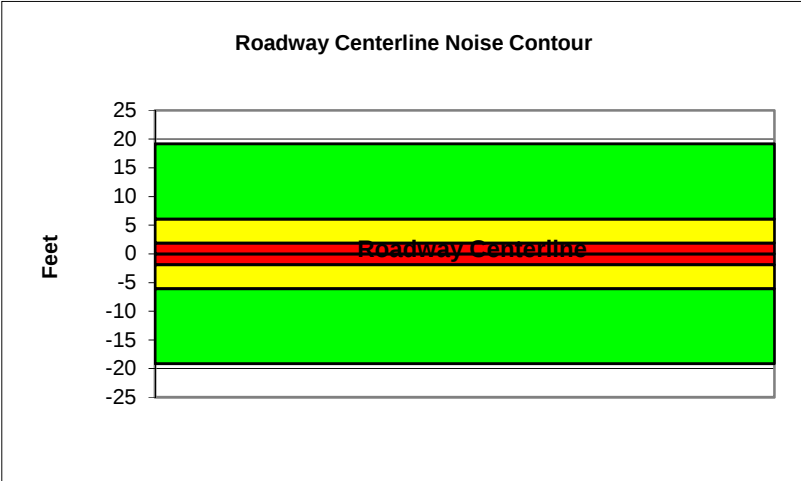
Project Name:	Mammoth Multi-Use Facilities	Scenario:	Future Plus Project
Analyst:	Achilles Malisos	Job #:	151373
Roadway:	Chateau Road		
Road Segment:	West of Old Mammoth Road		

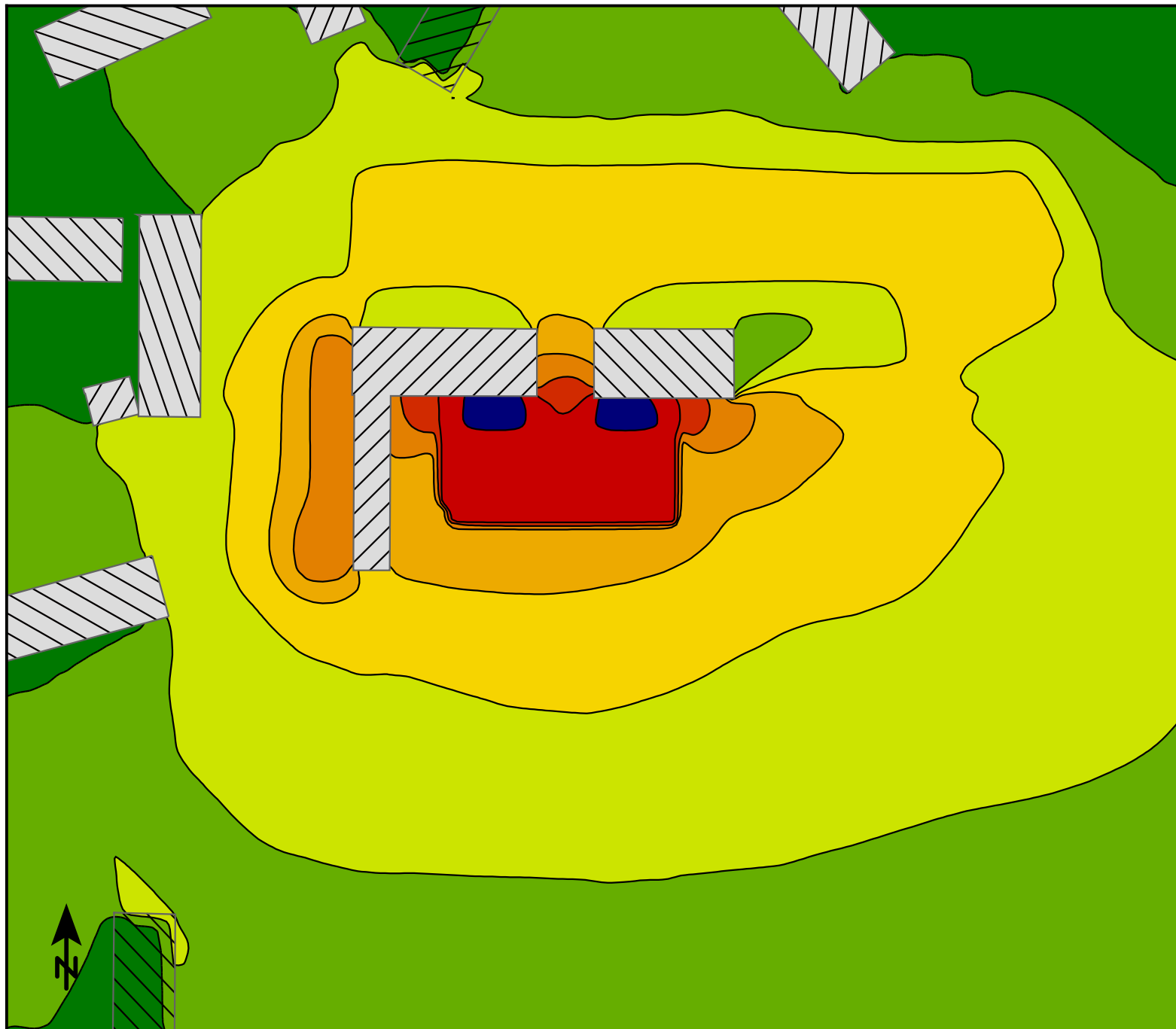
PROJECT DATA		SITE DATA				
Centerline Dist to Barrier	0	Road Grade:	0			
Barrier (0=wall, 1= berm):	0	Average Daily Traffic:	2234			
Receiver Barrier Dist:	0	Peak Hour Traffic:	223.4			
Centerline Dist. To Observer:	100	Vehicle Speed:	25			
Barrier Near Lane CL Dist:	0	Centerline Separation:	24			
Barrier Far lane CL Dist:	0	NOISE INPUTS				
Pad Elevation:	0.5	Site conditions HARD SITE				
Road Elevation:	0	FLEET MIX				
Observer Height (above grade):	0	Type	Day	Evening	Night	Daily
Barrier Height:	0	Auto	0.775	0.129	0.096	0.9742
Rt View: 90 Lft View: -90		Med. Truck	0.848	0.049	0.103	0.0184
NOISE SOURCE ELEVATIONS (Feet)		Heavy Truck	0.865	0.027	0.108	0.0074
Autos:	0					
Medium Trucks:	2.3					
Heavy Trucks:	8					

UNMITIGATED NOISE LEVELS (No topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:	39.3	48.1	46.3	40.2	48.9	49.5
Medium Trucks:	50.9	42.9	36.5	34.9	43.4	43.6
Heavy Trucks:	57.1	45.2	36.1	37.3	47.7	47.8
Vehicle Noise:	59.8	51.3	47.3	43.5	52.0	52.4

MITIGATED NOISE LEVELS (With topographic or barrier attenuation)						
Vehicle Type	Peak Leq	Leq Day	Leq Evening	Leq Night	Ldn	CNEL
Autos:						
Medium Trucks:						
Heavy Trucks:						
Vehicle Noise:						

CENTERLINE NOISE CONTOUR	
Unmitigated	
60 dBA	19
65 dBA	6
70 dBA	2
Mitigated	
60 dBA	
65 dBA	
70 dBA	





Signs and symbols

Levels in dBA

