

Appendix D

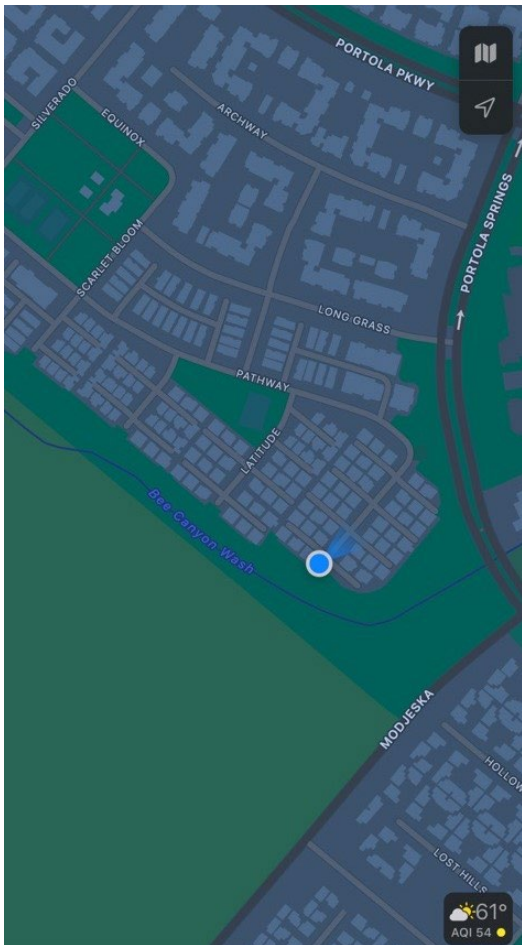
Noise Data

This document is designed for double-sided printing to conserve natural resources.

Site Number: NM-1		
Recorded By: Darshan Shivaiah		
Job Number: 198494		
Date: 02/14/2024		
Time: 12:15 p.m.		
Location: In front of 194 Pathway		
Source of Ambient Noise: Traffic along Portola Springs and Pathway		
Noise Data		
L_{eq} (dB)	L_{max}(dB)	L_{min} (dB)
47.4	66.1	34.2

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	06/04/2023	
	Microphone	Brüel & Kjær	4189	3086765	06/04/2023	
	Preamp	Brüel & Kjær	ZC 0032	25380	06/04/2023	
	Calibrator	Brüel & Kjær	4231	2545667	06/04/2023	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = 0.06			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	3 mph		61		29.96	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		02/14/2024 12:15:56
End Time:		02/14/2024 12:25:56
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.14

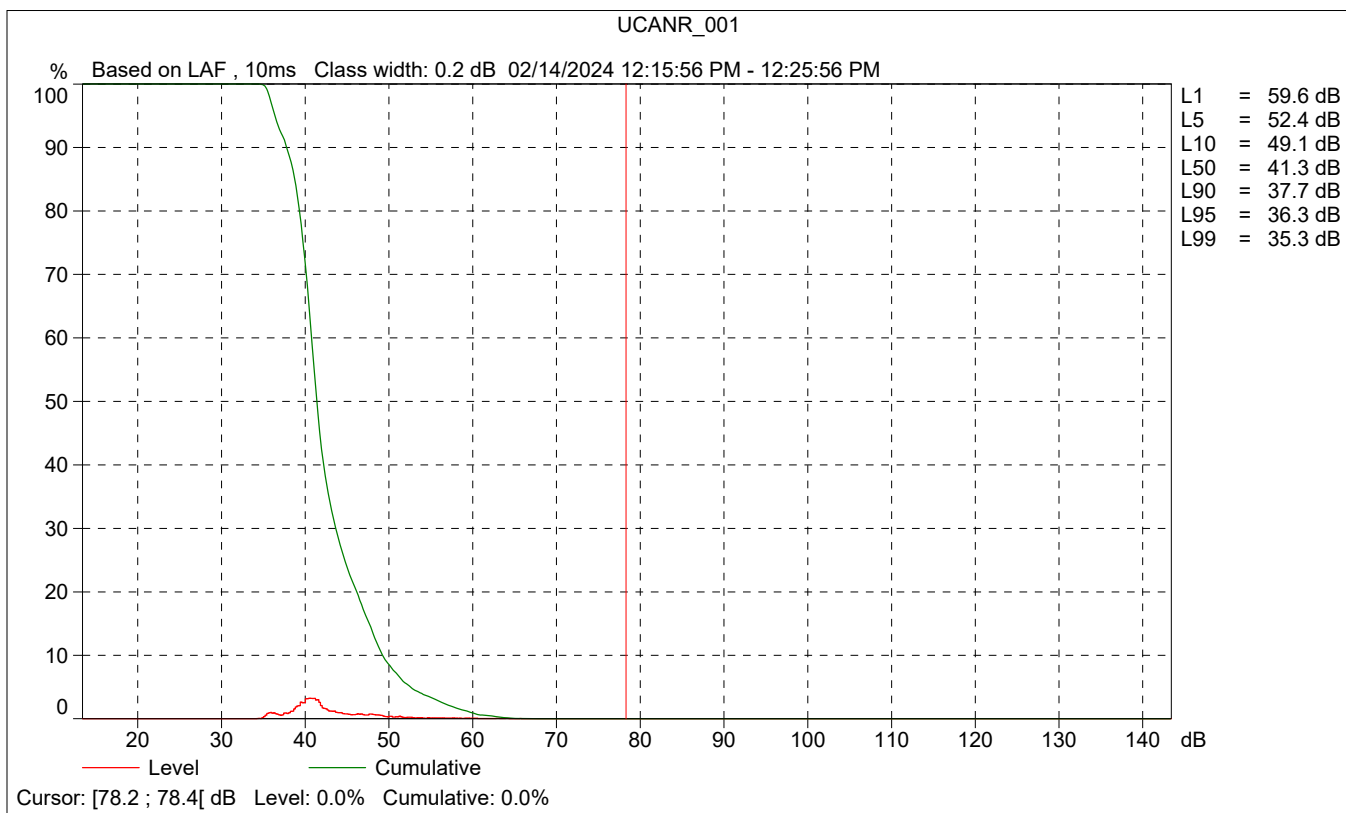
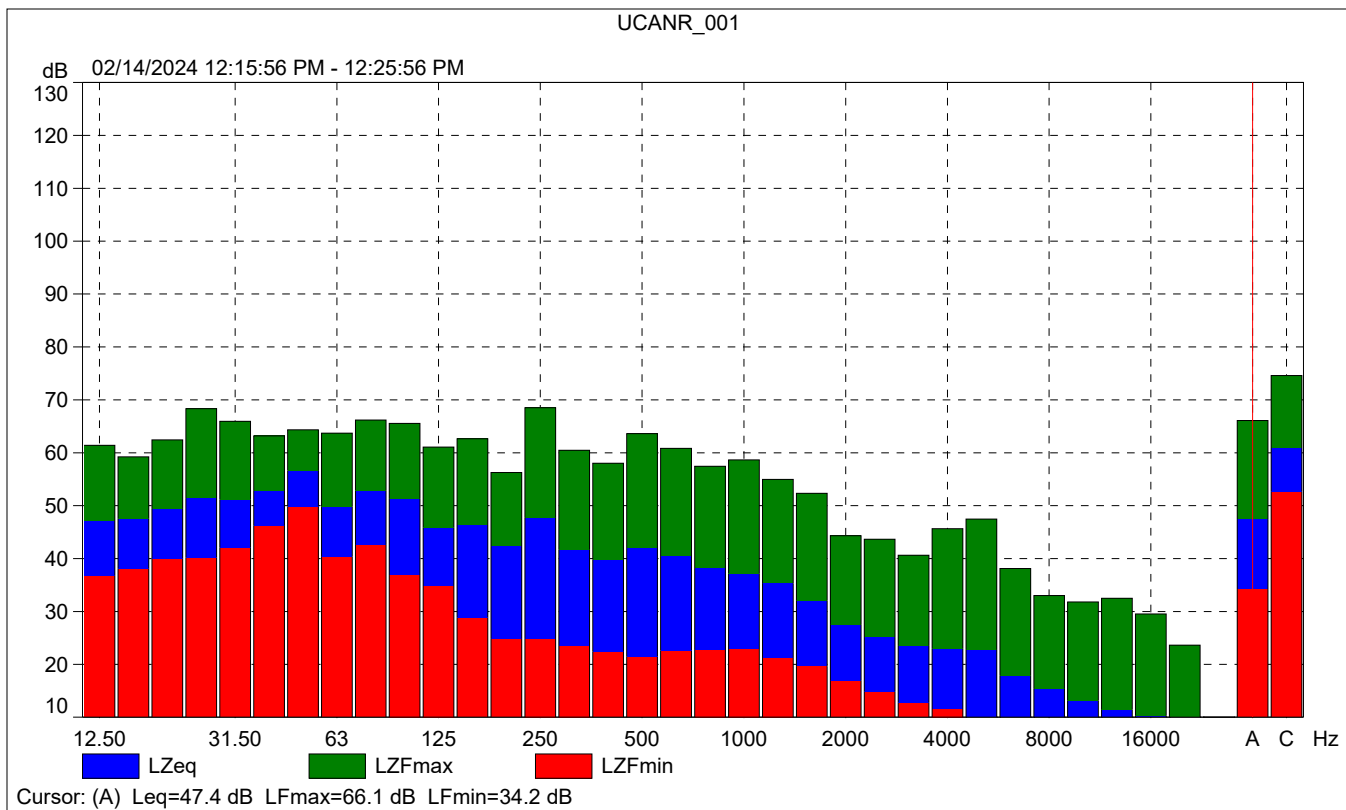
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

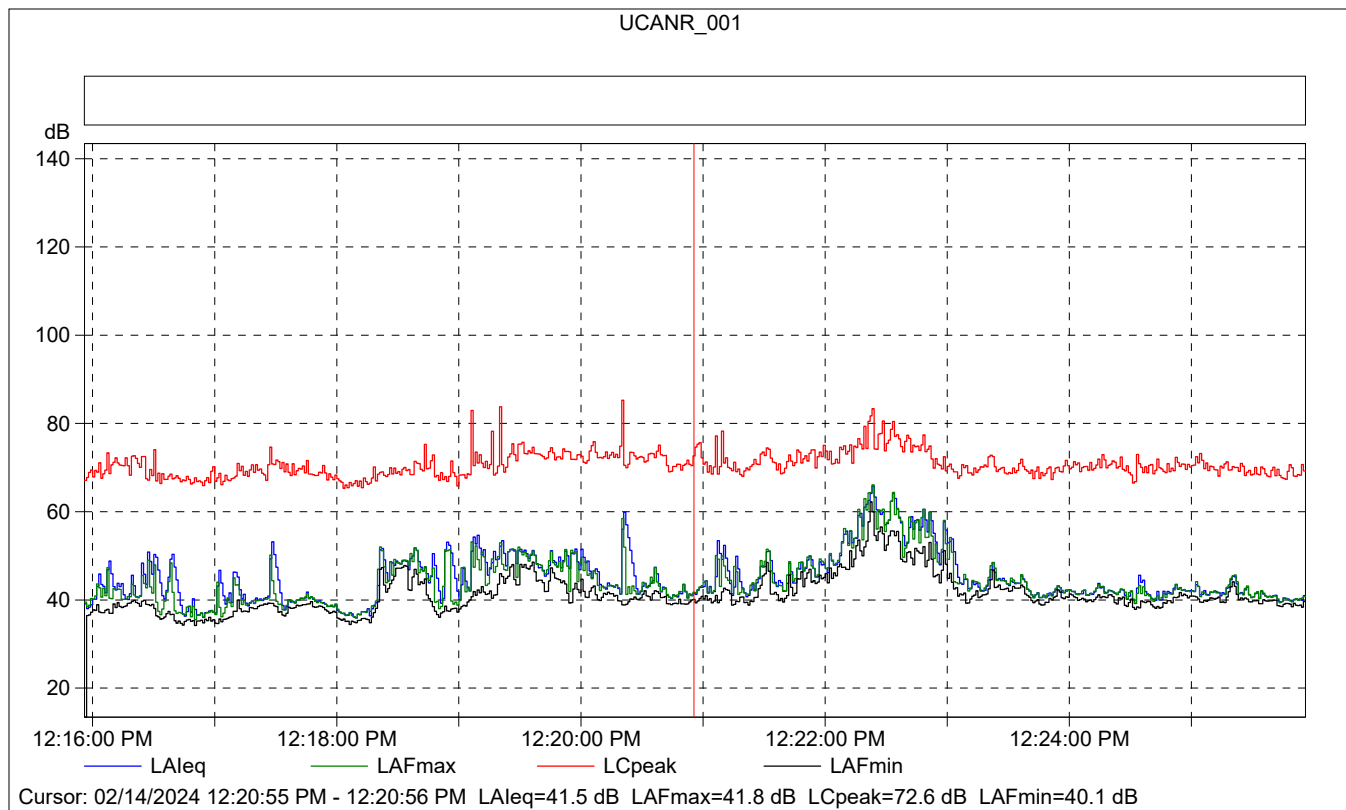
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		02/14/2024 12:14:50
Calibration Type:		External reference
Sensitivity:		43.5025803744793 mV/Pa

UCANR_001

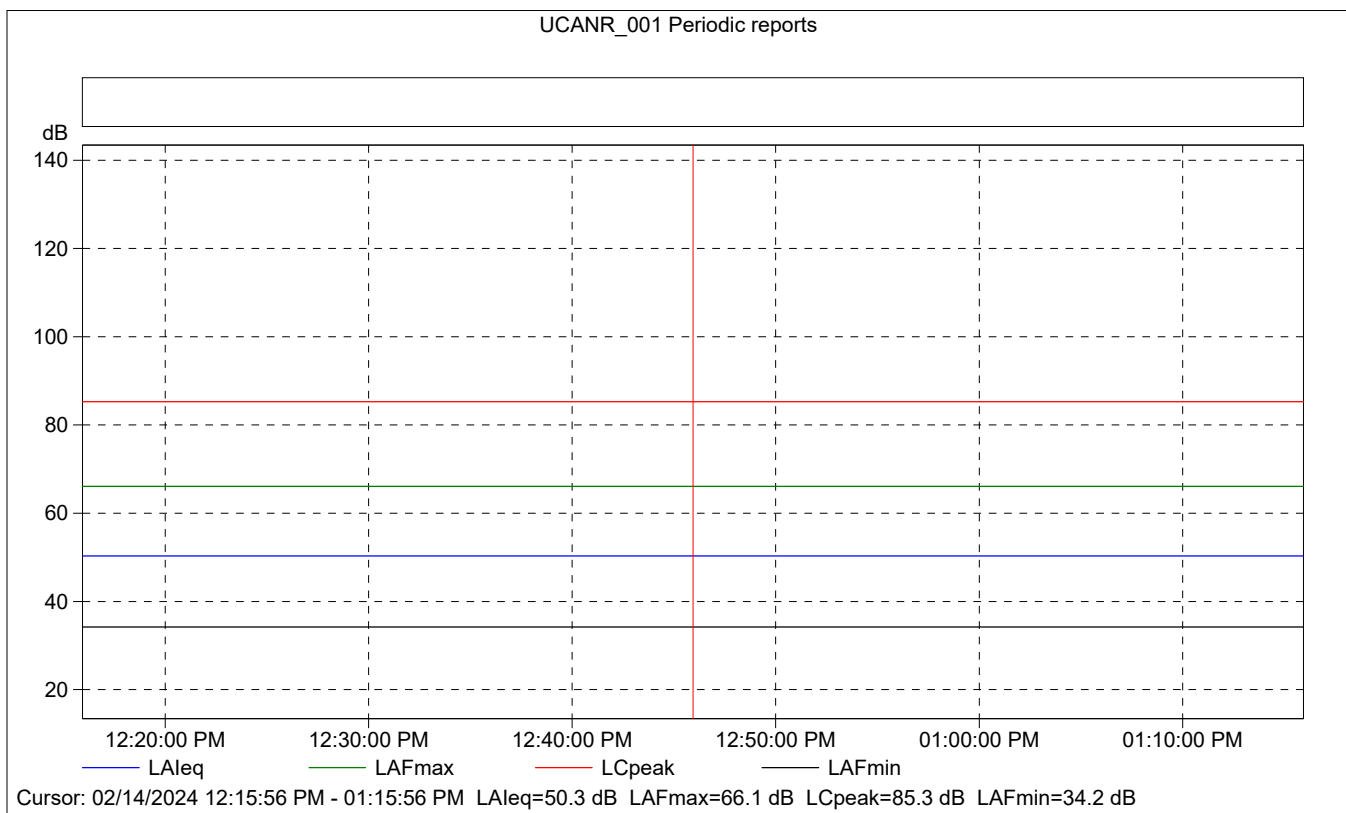
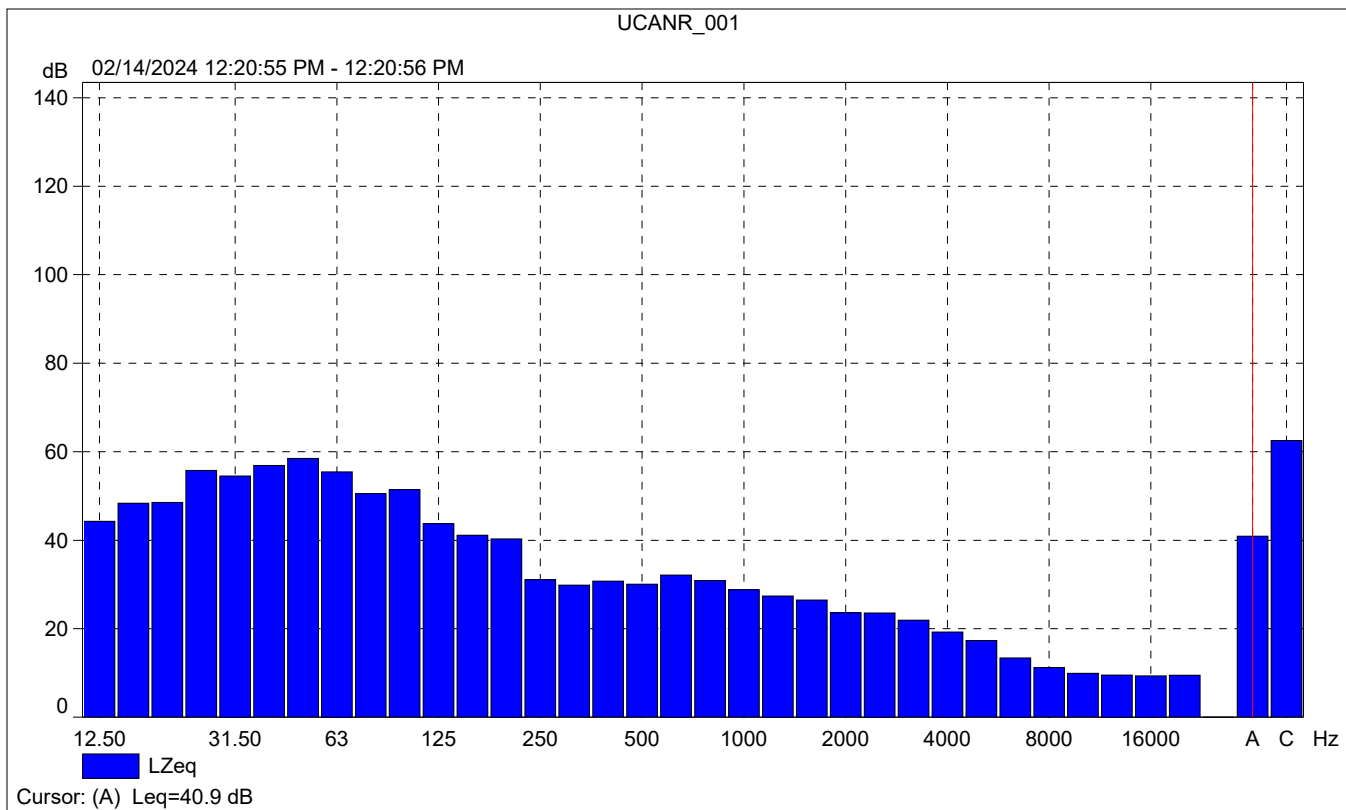
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	47.4	66.1	34.2
Time	12:15:56 PM	12:25:56 PM	0:10:00				
Date	02/14/2024	02/14/2024					





UCANR_001

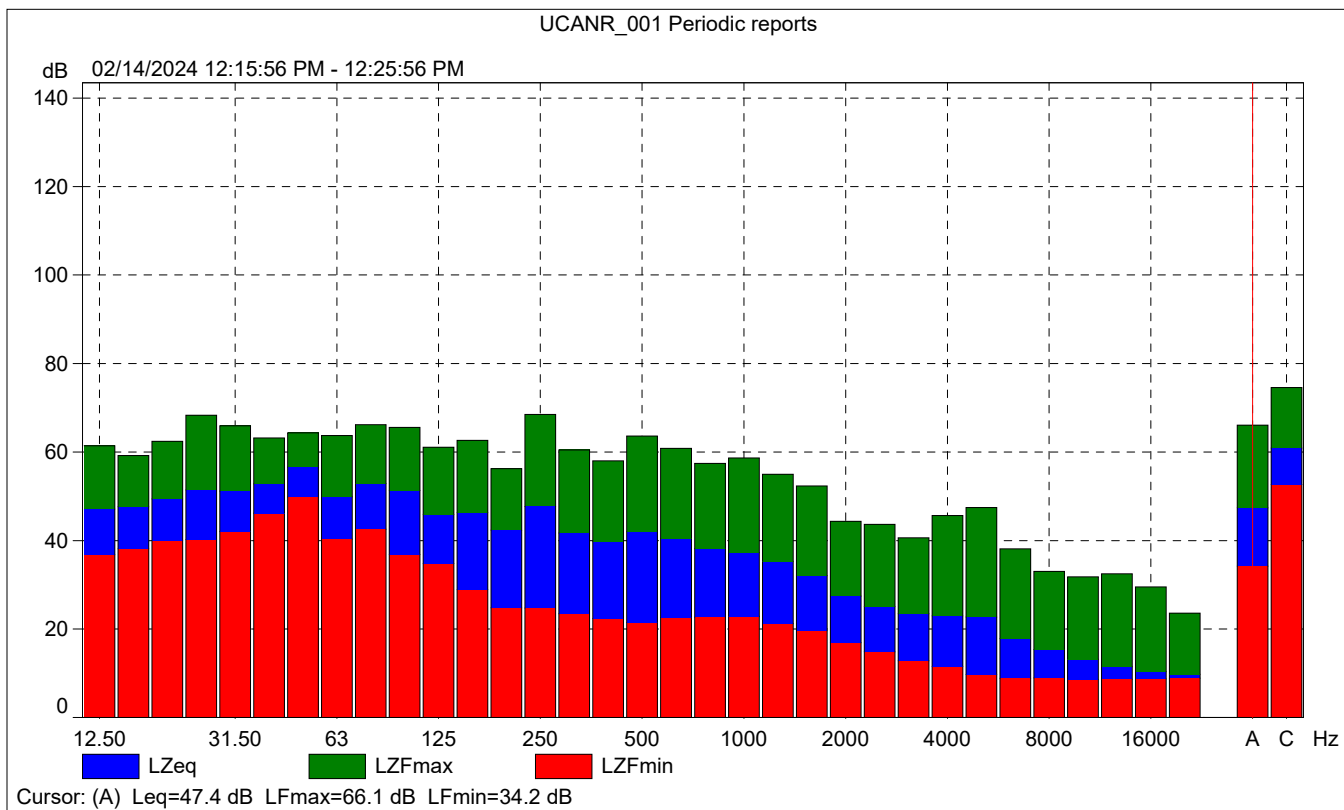
	Start time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	41.5	41.8	40.1
Time	12:20:55 PM	0:00:01				
Date	02/14/2024					





UCANR_001 Periodic reports

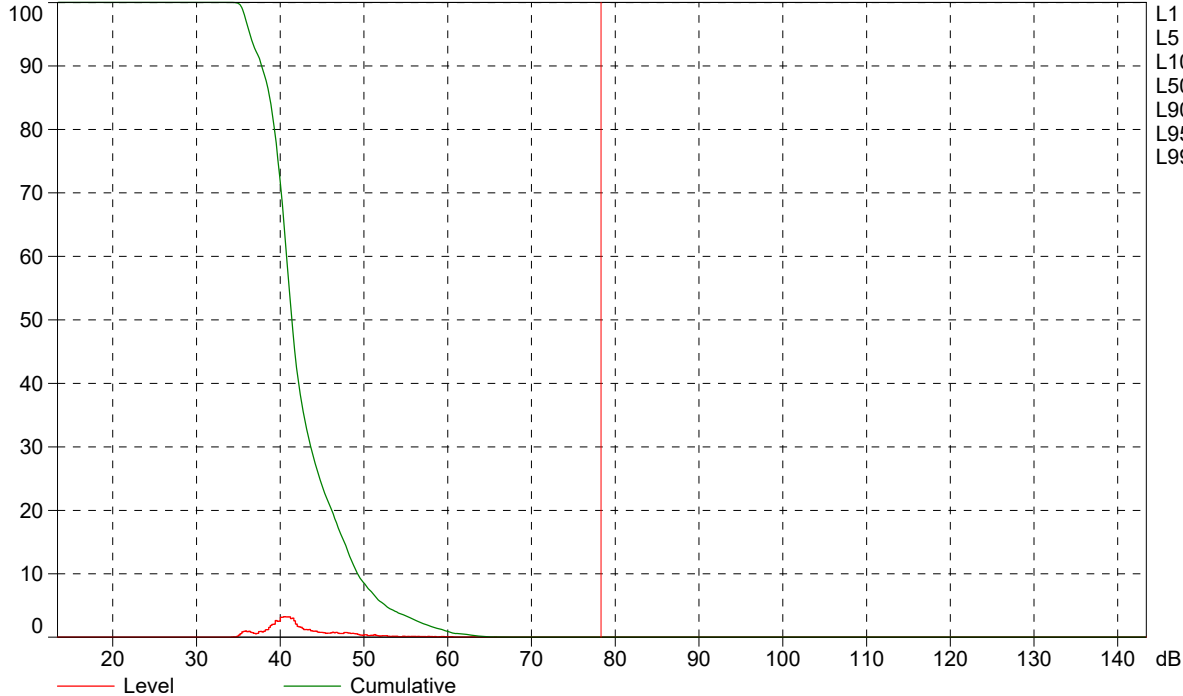
	Start time	Elapsed time	Overload [%]	LALeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	50.3	66.1	34.2
Time	12:15:56 PM	0:10:00				
Date	02/14/2024					





UCANR_001 Periodic reports

% Based on LAF, 10ms Class width: 0.2 dB 02/14/2024 12:15:56 PM - 12:25:56 PM

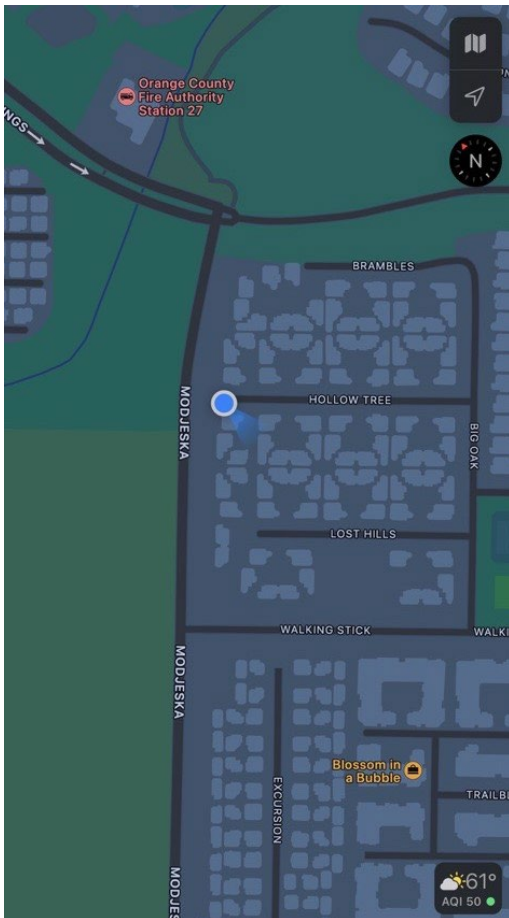


Cursor: [78.2 ; 78.4] dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-2		
Recorded By: Darshan Shivaiah		
Job Number: 198494		
Date: 02/14/2024		
Time: 12:39 p.m.		
Location: Along the sidewalk of Hollow Tree, next to 116 Hollow Tree		
Source of Ambient Noise: Traffic along Portola Springs and Hollow		
Noise Data		
L_{eq} (dB)	L_{max}(dB)	L_{min} (dB)
49.0	63.4	35.6

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	06/04/2023	
	Microphone	Brüel & Kjær	4189	3086765	06/04/2023	
	Preamp	Brüel & Kjær	ZC 0032	25380	06/04/2023	
	Calibrator	Brüel & Kjær	4231	2545667	06/04/2023	
Weather Data						
Est.	Duration: 10 minutes			Sky: Sunny		
	Note: dBA Offset = 0.06			Sensor Height (ft): 5 ft		
	Wind Ave Speed (mph / m/s)		Temperature (degrees Fahrenheit)		Barometer Pressure (inches)	
	3 mph		61		29.96	

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		02/14/2024 12:39:01
End Time:		02/14/2024 12:49:01
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.14

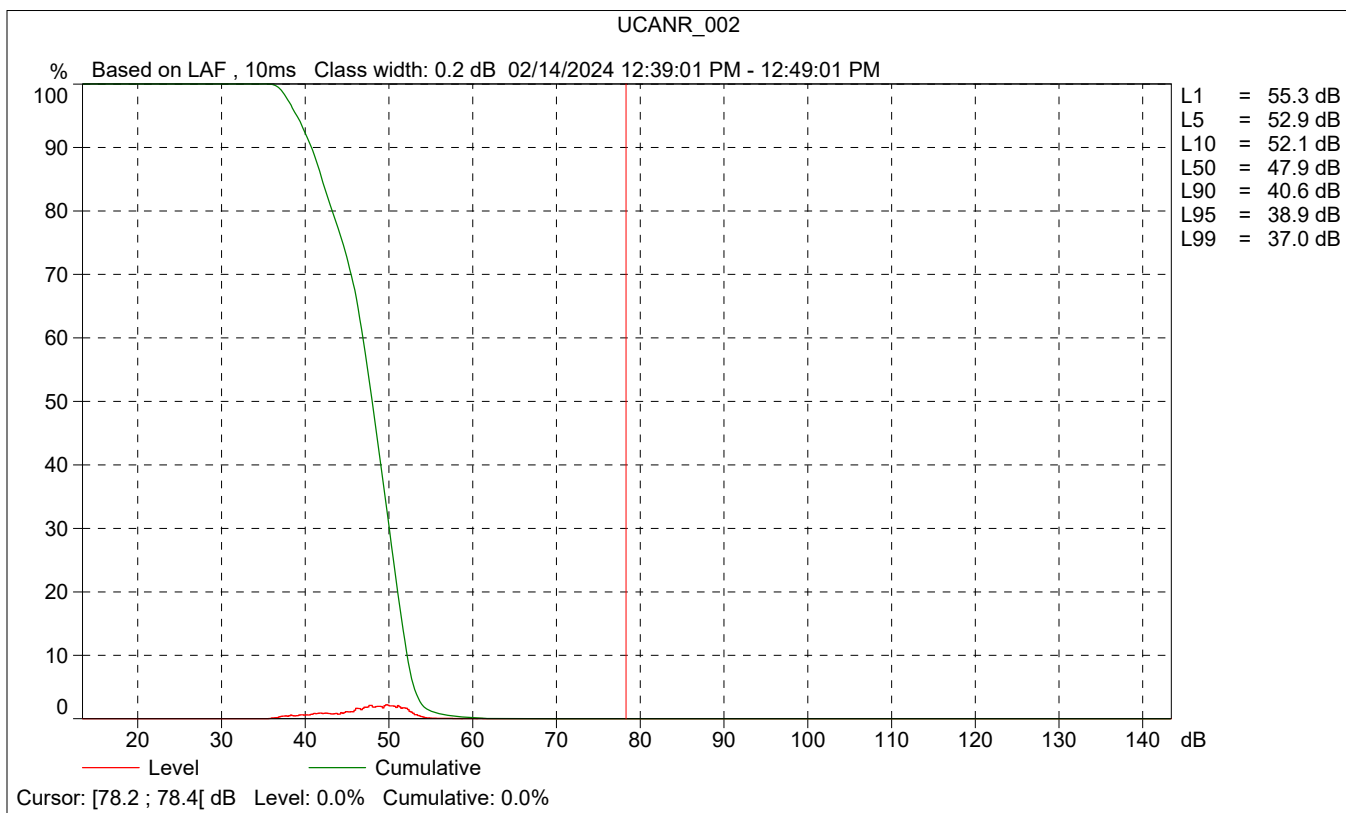
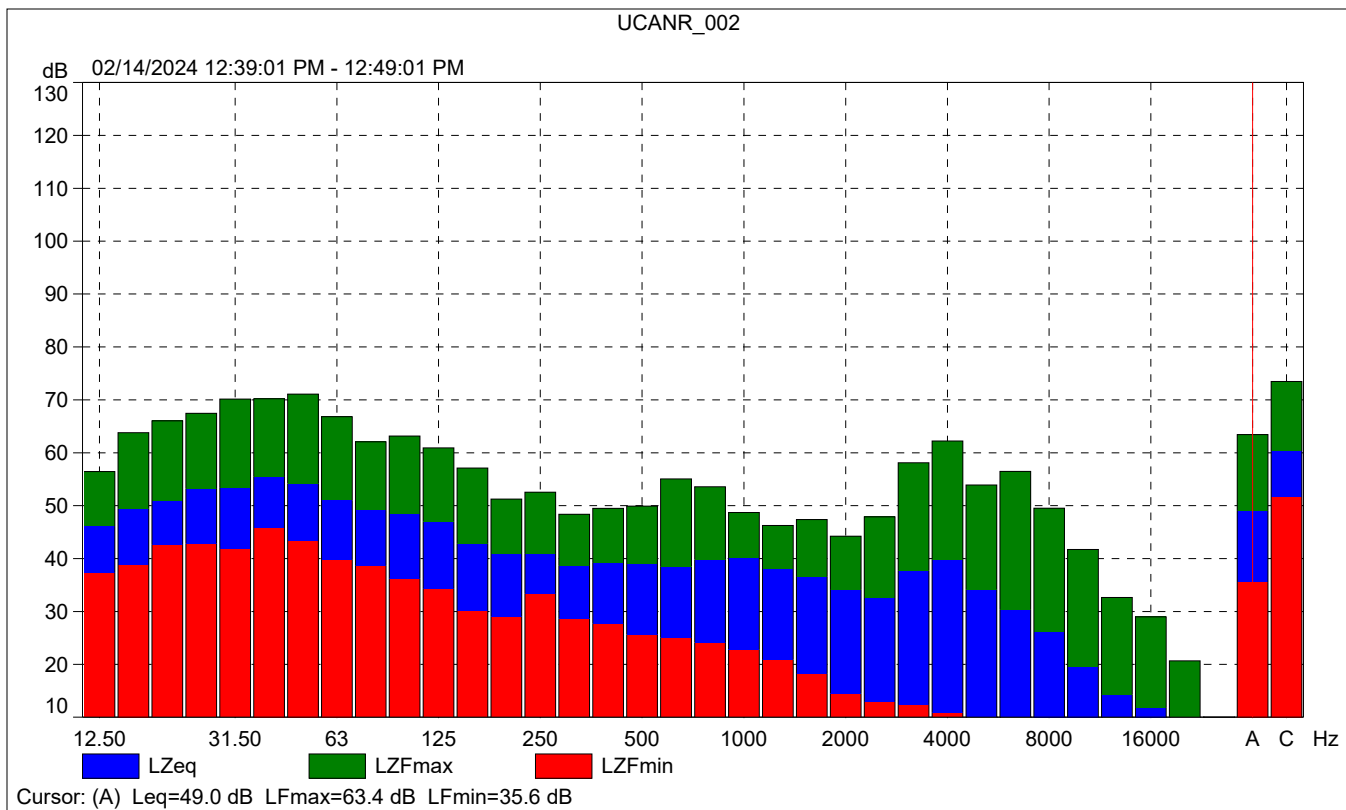
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

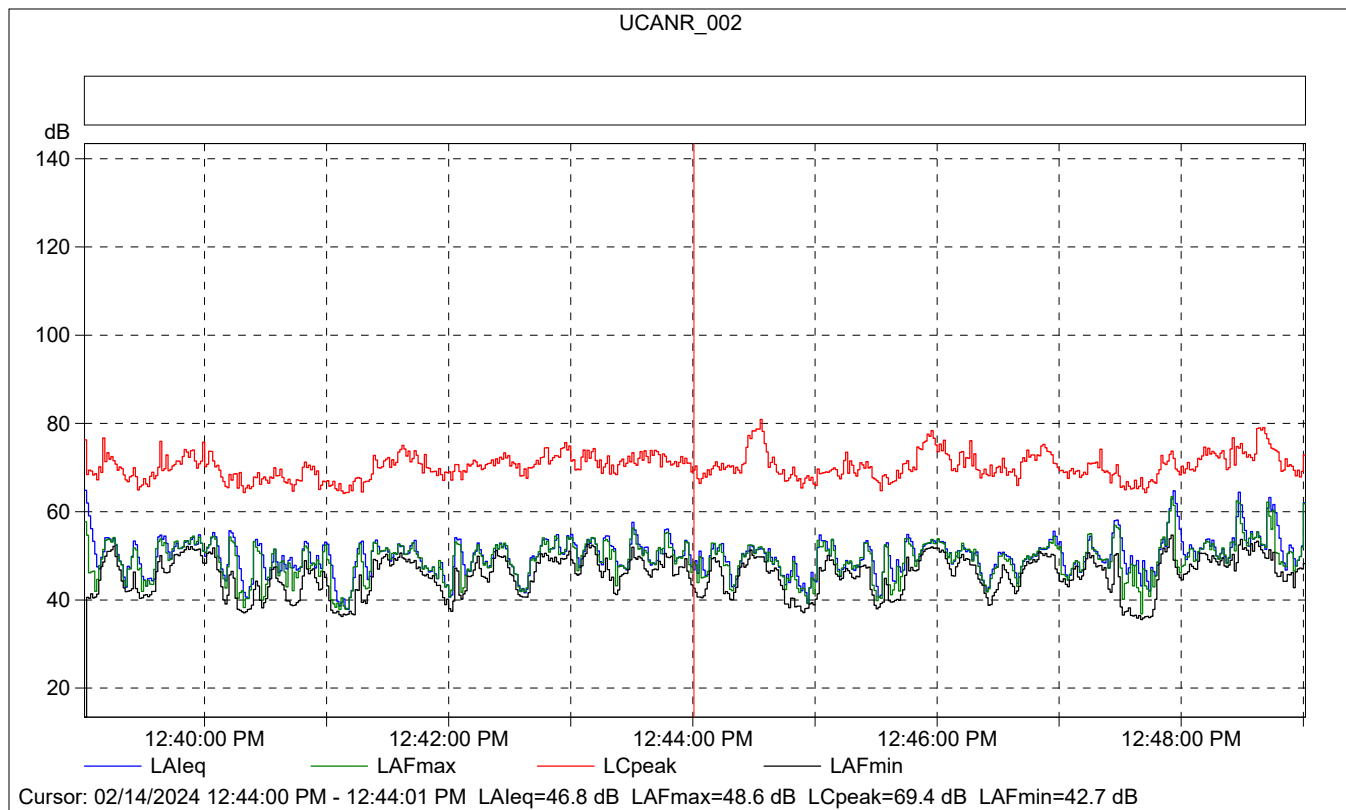
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

Calibration Time:		02/14/2024 12:14:50
Calibration Type:		External reference
Sensitivity:		43.5025803744793 mV/Pa

UCANR_002

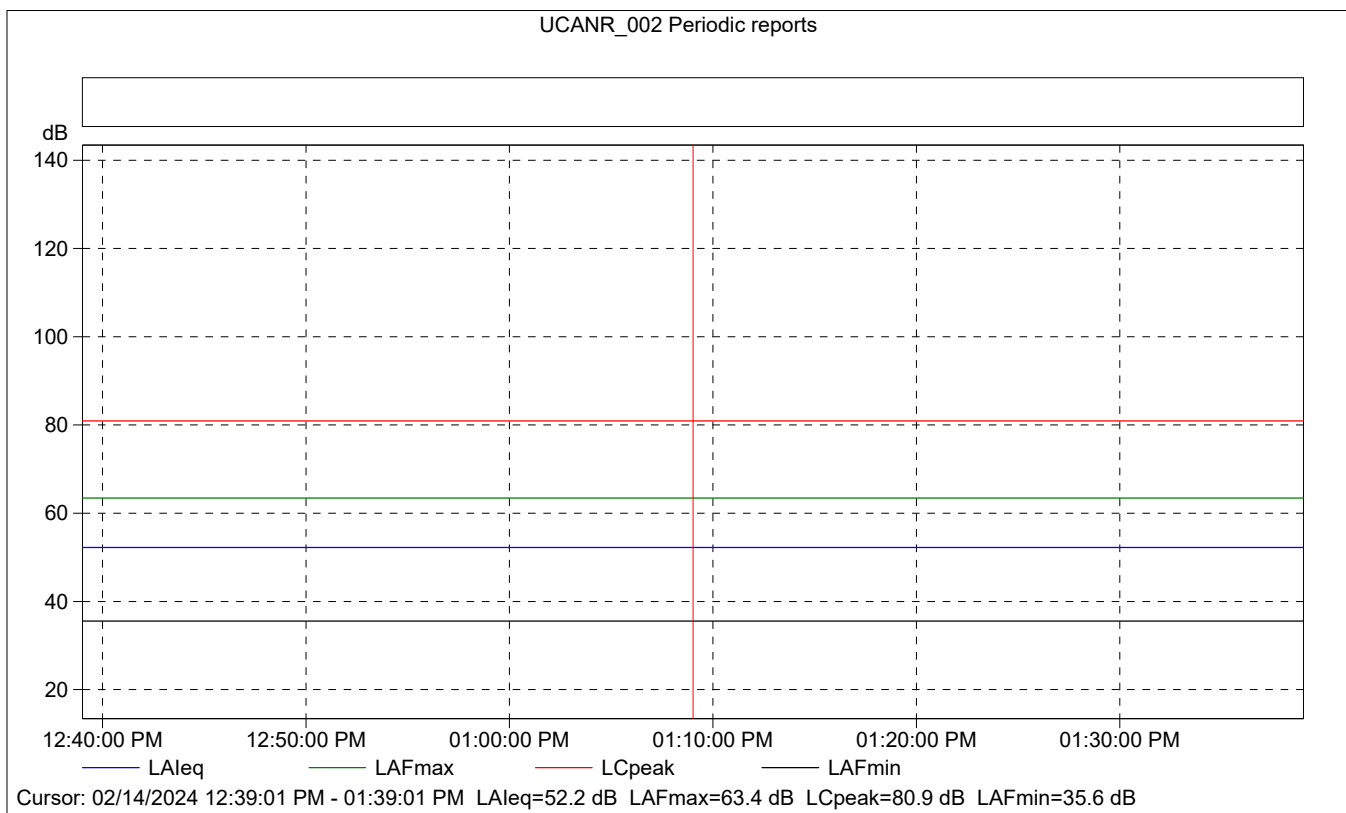
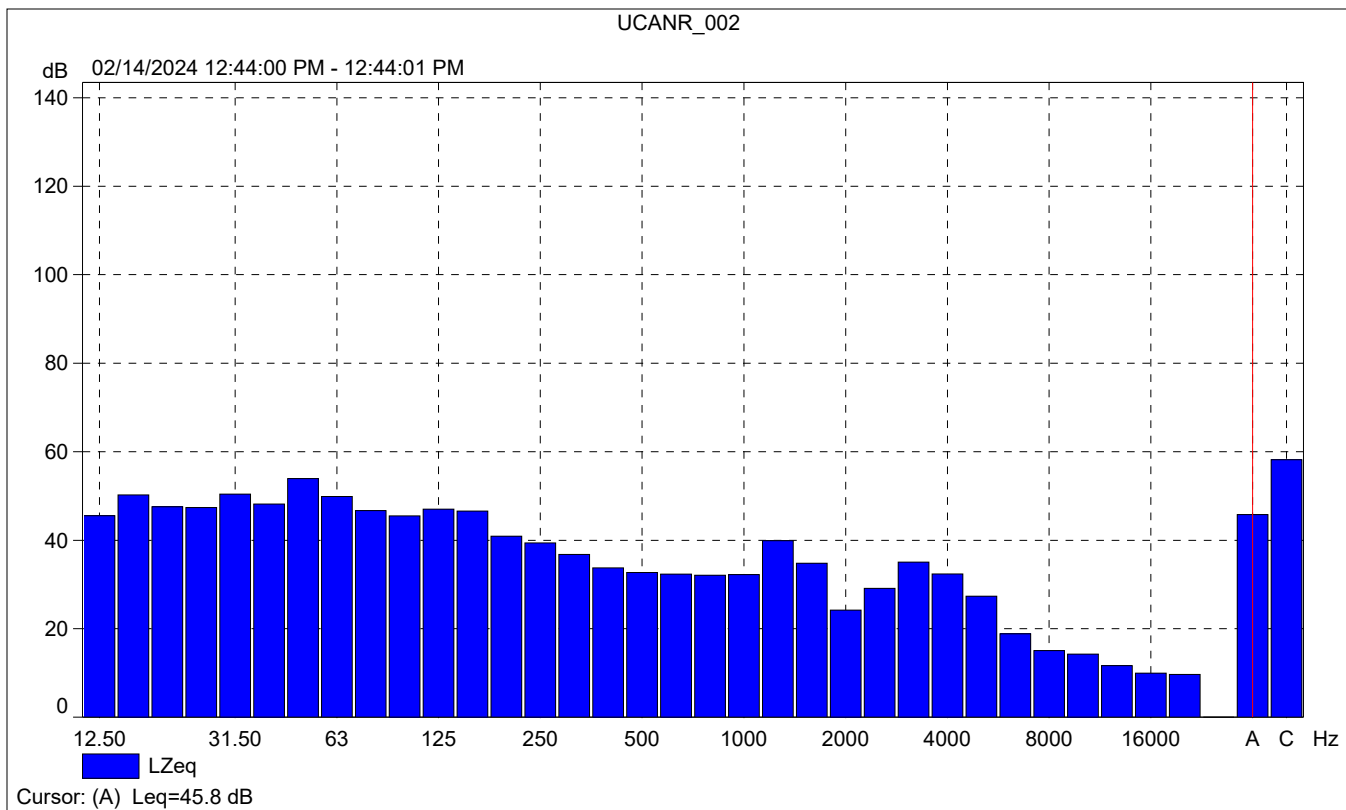
	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	49.0	63.4	35.6
Time	12:39:01 PM	12:49:01 PM	0:10:00				
Date	02/14/2024	02/14/2024					





UCANR_002

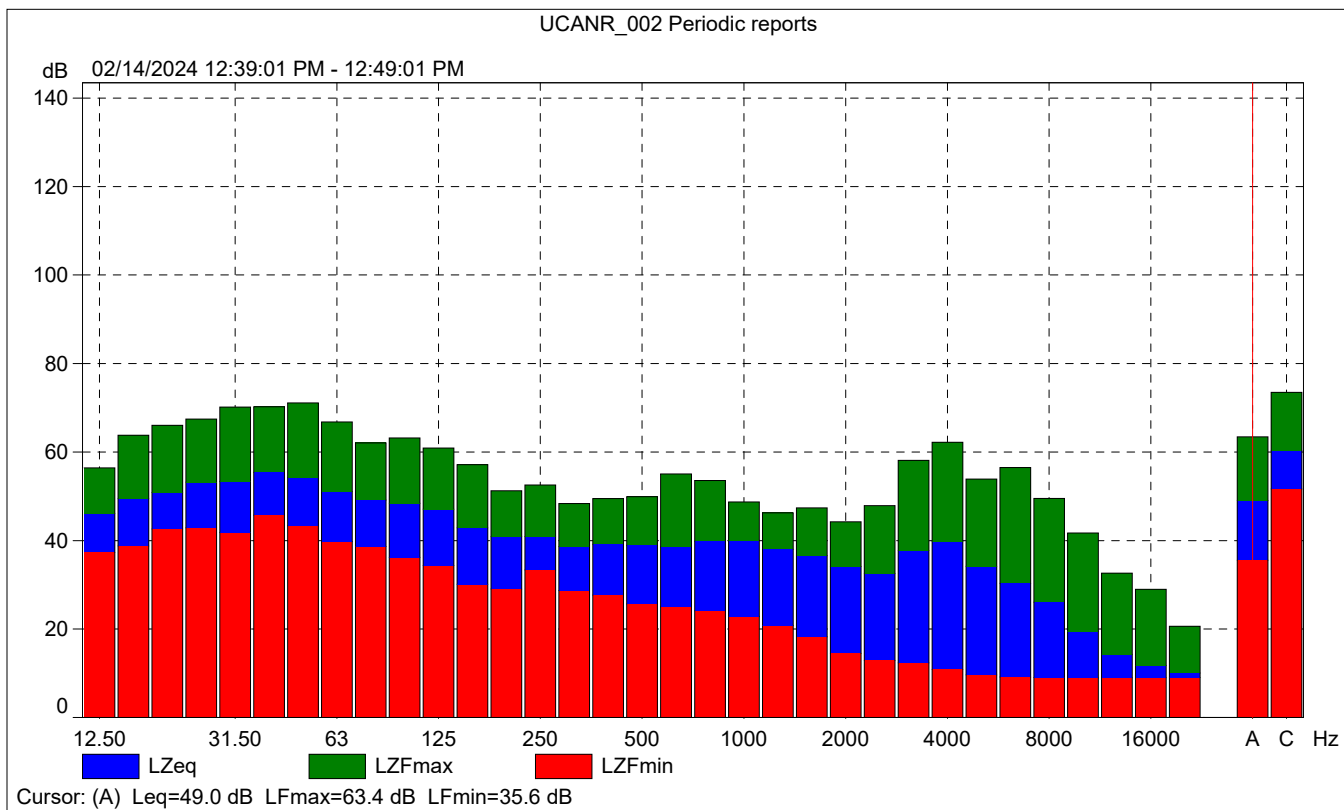
	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	46.8	48.6	42.7
Time	12:44:00 PM	0:00:01				
Date	02/14/2024					





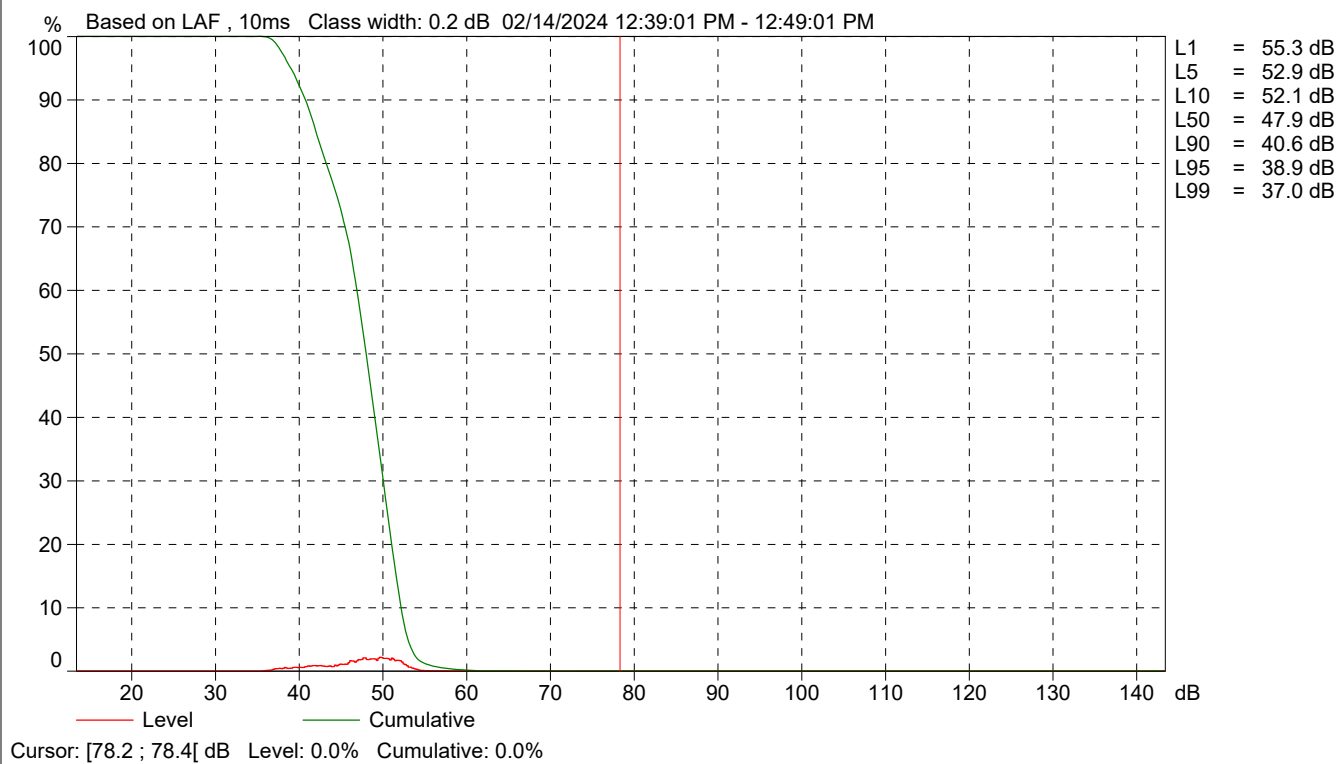
UCANR_002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAFeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	52.2	63.4	35.6
Time	12:39:01 PM	0:10:00				
Date	02/14/2024					





UCANR_002 Periodic reports



Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/12/2024

Case Descr: Grading

---- Receptor #1 ----

Descriptor Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Single-Fam Residential	85	85	85

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85		125	0
Dozer	No	40		81.7	125	0
Backhoe	No	40		77.6	125	0
Backhoe	No	40		77.6	125	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Grader	77	73.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	73.7	69.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	77	75.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/12/2024

Case Descr: Grading

---- Receptor #1 ----

Descriptor Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Single-Fam Residential	85	85	85

Description	Impact Device	Usage(%)	Equipment			Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)			
Grader	No	40	85		1000	0	
Dozer	No	40		81.7	1000	0	
Backhoe	No	40		77.6	1000	0	
Backhoe	No	40		77.6	1000	0	

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Grader	59	55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	55.6	51.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	51.5	47.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	51.5	47.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	59	57.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/12/2024

Case Description: Construction

--- Receptor #1 ---

Descriptor Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Single-Fam Residential	85	85	85

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	125	0
Pickup Truck	No	40		75	125	0
Pickup Truck	No	40		75	125	0
Generator	No	50		80.6	125	0
Backhoe	No	40		77.6	125	0
Welder / Torch	No	40		74	125	0
Welder / Torch	No	40		74	125	0
Welder / Torch	No	40		74	125	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	72.6	64.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck	67	63.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck	67	63.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	72.7	69.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	66	62.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	66	62.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	66	62.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	72.7	73.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date 3/12/2024

Case Descr Grading

---- Receptor #1 ----

Descriptor Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Single-Fam Residential	85	85	85

Description	Impact Device	Usage(%)	Equipment			Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Crane	No	16		80.6	1000	0
Pickup Truck	No	40		75	1000	0
Pickup Truck	No	40		75	1000	0
Generator	No	50		80.6	1000	0
Backhoe	No	40		77.6	1000	0
Welder / Torch	No	40		74	1000	0
Welder / Torch	No	40		74	1000	0
Welder / Torch	No	40		74	1000	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	54.5	46.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck	49	45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck	49	45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	54.6	51.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	51.5	47.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	48	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	48	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	48	44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	54.6	55.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date 3/12/2024

Case Descr Paving

---- Receptor #1 ----

Descriptor Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Single-Fam Residential	85	85	85

Description	Impact Device	Equipment				
		Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	125	0
Paver	No	50		77.2	125	0
Roller	No	20		80	125	0
Roller	No	20		80	125	0
Roller	No	20		80	125	0
Backhoe	No	40		77.6	125	0

Equipment	Results													
	Calculated (dBA)			Noise Limits (dBA)						Noise Limit Exceedance (dBA)				
	*Lmax	Leq	Day	Leq	Evening	Leq	Night	Leq	Day	Evening	Leq	Night	Leq	
Concrete Mixer Truck	70.8	66.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	69.3	66.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	72	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	72	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	72	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	72	73.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 3/12/2024

Case Description: Paving

---- Receptor #1 ----

Descriptor Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Single-Fam Residential	85	85	85

Description	Impact Device	Usage(%)	Equipment			Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Concrete Mixer Truck	No	40		78.8	1000	0
Paver	No	50		77.2	1000	0
Roller	No	20		80	1000	0
Roller	No	20		80	1000	0
Roller	No	20		80	1000	0
Backhoe	No	40		77.6	1000	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	52.8	48.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	51.2	48.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	54	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	54	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	54	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	51.5	47.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	54	55.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date 3/12/2024

Case Descr Coating

---- Receptor #1 ----

Baselines (dBA)

Descriptor Land Use	Daytime	Evening	Night
Single-Fam Residential	85	85	85

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Compressor (air)	No	40		77.7	125	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	69.7	65.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	69.7	65.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 3/12/2024

Case Description: Coating

---- Receptor #1 ----

Descriptor Land Use	Baselines (dBA)		
	Daytime	Evening	Night
Single-Fam Residential	85	85	85

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	1000	0

Equipment	Results															
	Calculated (dBA)				Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax		Leq		Day		Evening		Night		Day		Evening		Night	
Compressor (air)	51.6	47.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	51.6	47.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.