CITY OF NORWALK
A Connected Community

11.8 Noise Data

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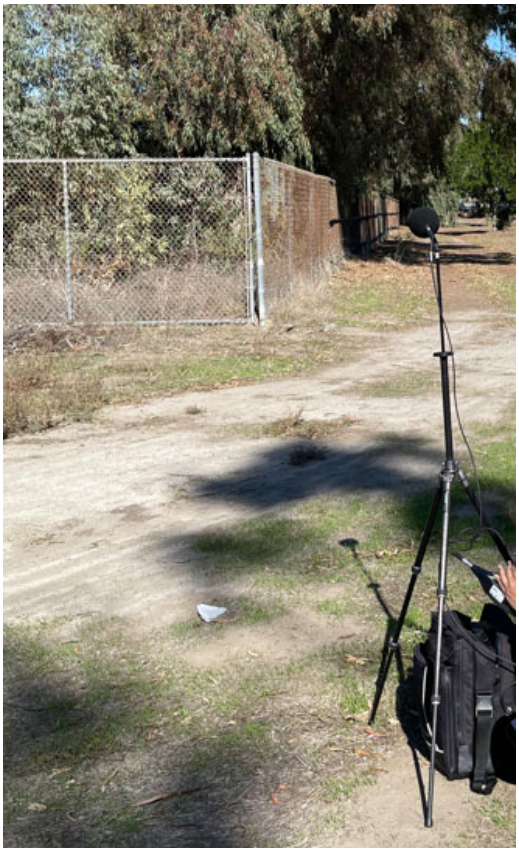
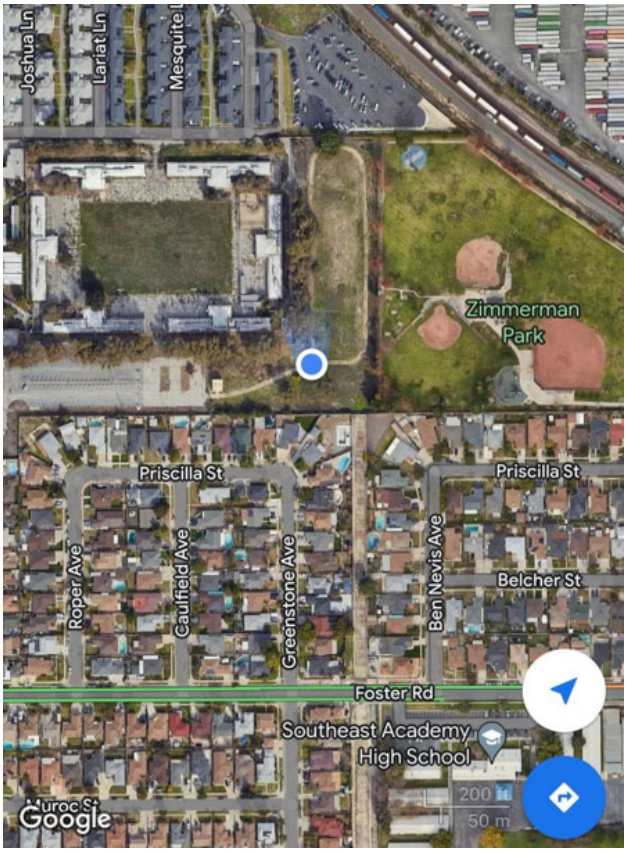
Site Number: NM-1			
Recorded By: Winnie Woo, Eddie Torres			
Job Number: 187917			
Date: 11/15/22			
Time: 10:50 a.m.			
Location: Southeast and outside of the fence, at intersection of an unpaved road			
Source of Ambient Noise: Train driving by, Traffic in the vicinity			
Source of Peak Noise: Bird chirping, train driving by, plane flying by			
Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
50.8	67.4	37.7	92.3

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**03/10/2022**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**03/10/2022**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**03/10/2022**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**03/10/2022**	

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)**
	1.1 mph	73	39

Photo of Measurement Location





2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		11/15/2022 10:48:22
End Time:		11/15/2022 10:58:22
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.17

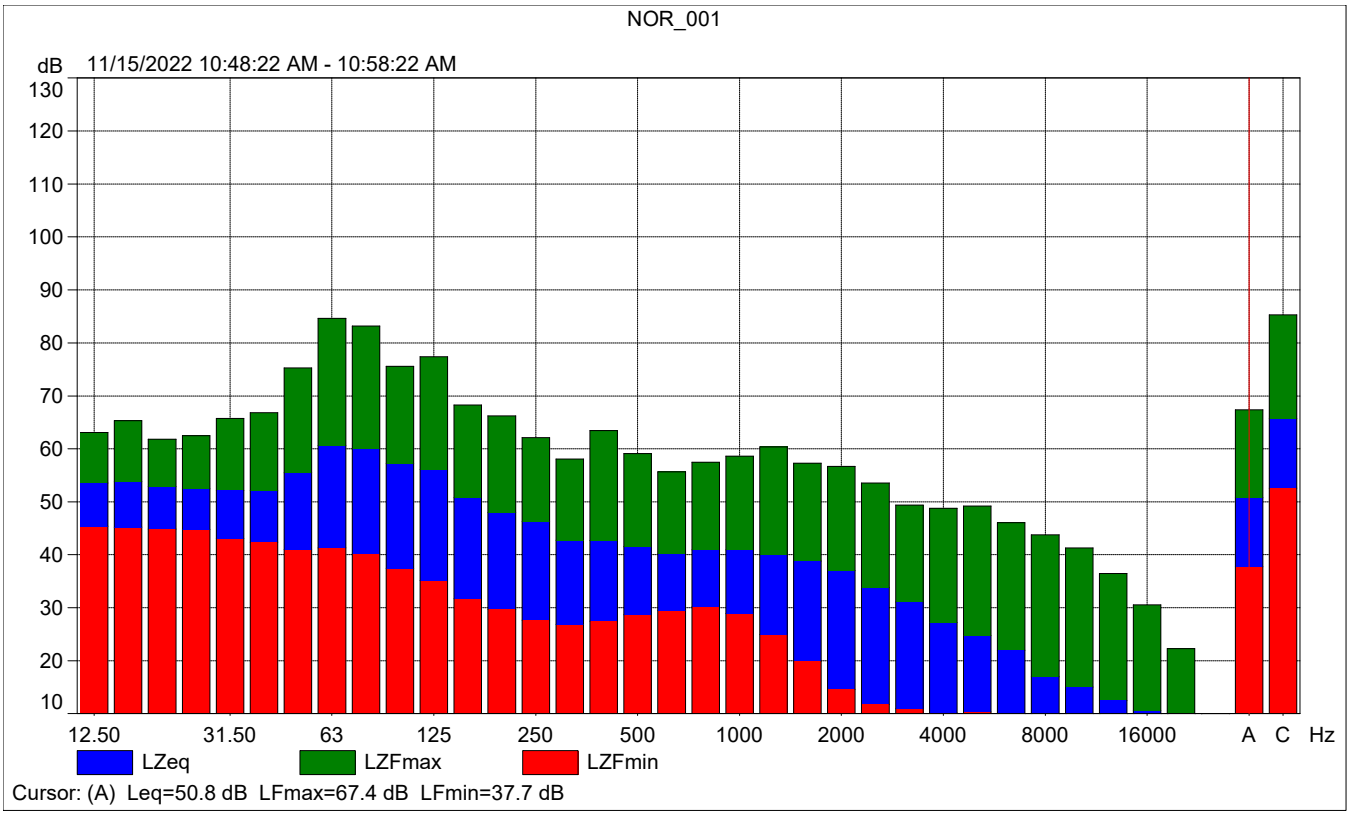
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

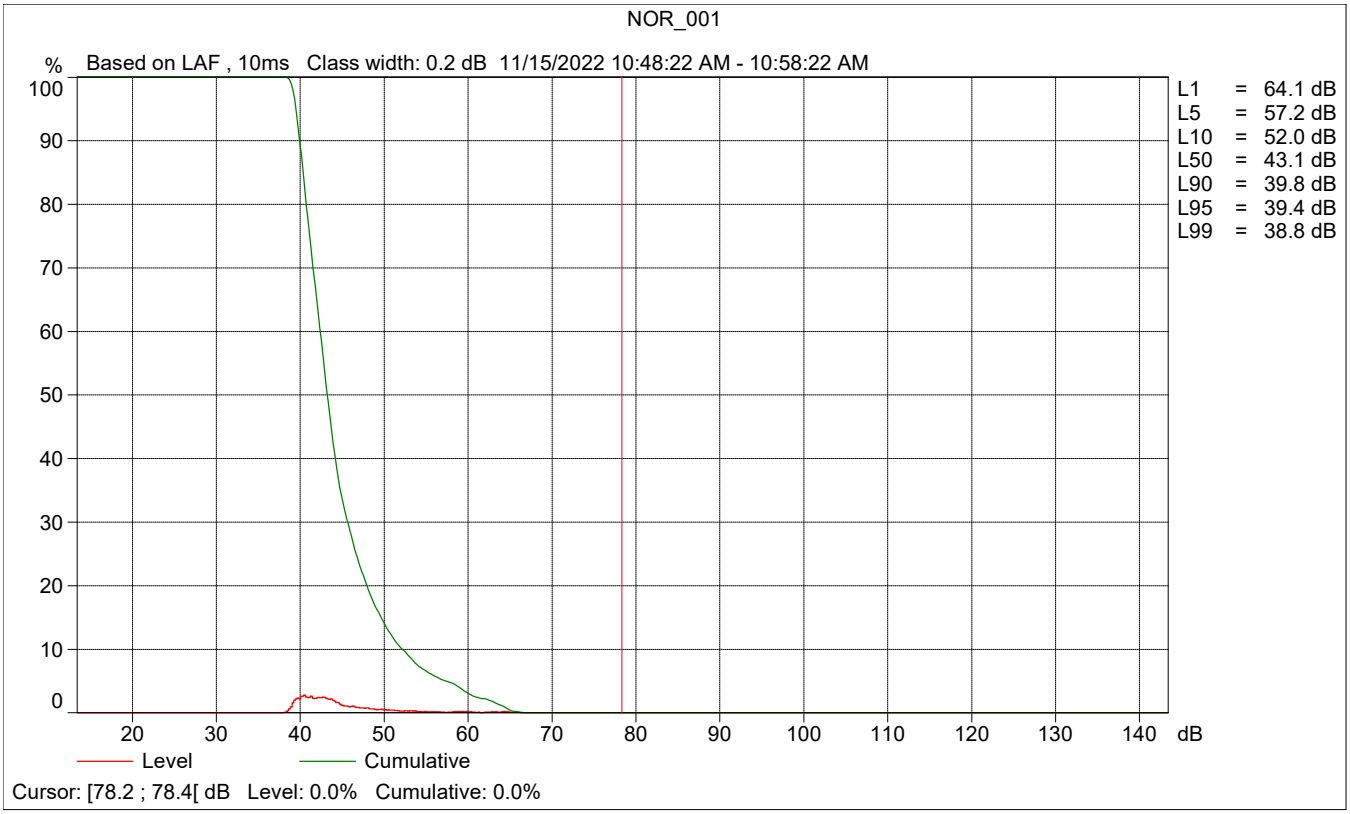
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

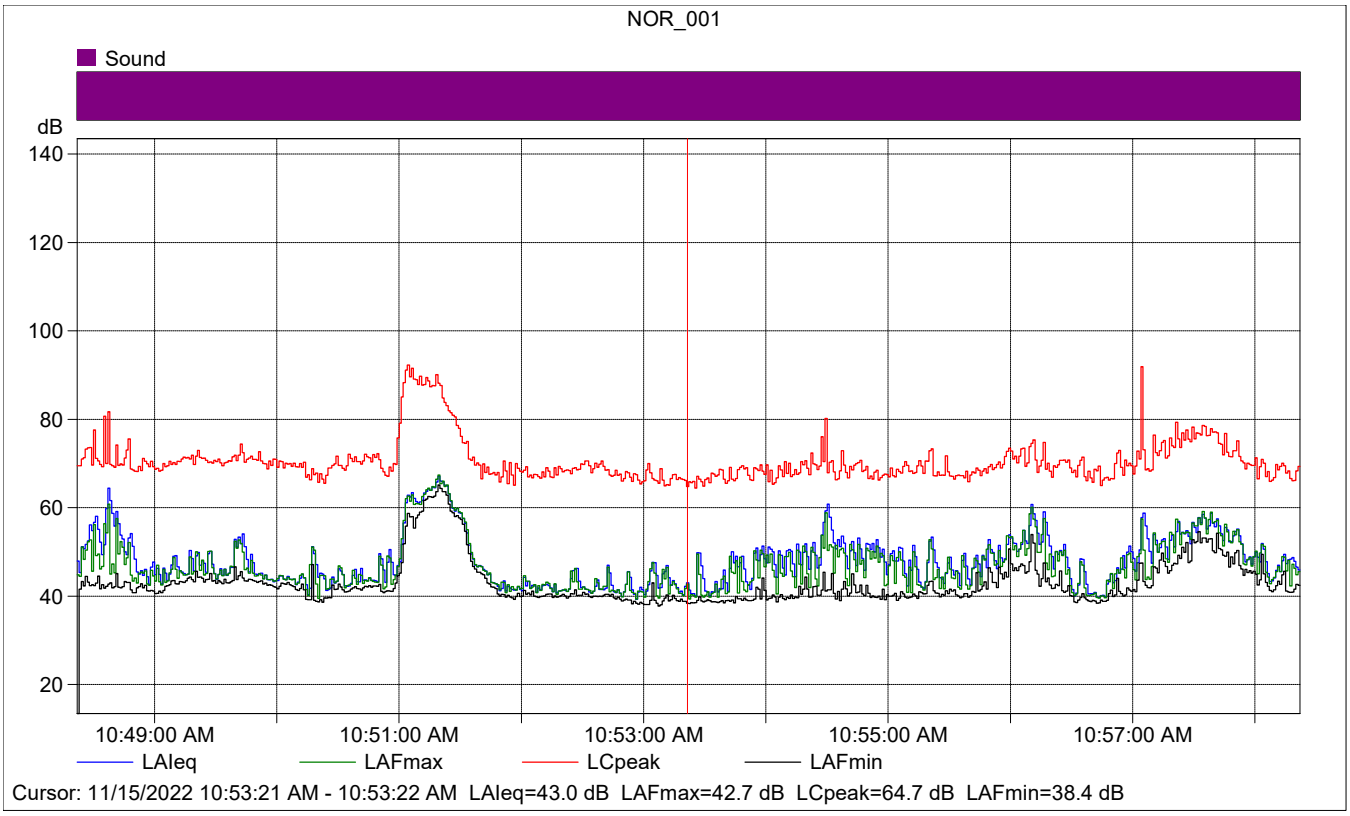
Calibration Time:		11/15/2022 09:14:42
Calibration Type:		External reference
Sensitivity:		43.3700568974018 mV/Pa

NOR_001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	50.8	67.4	37.7
Time	10:48:22 AM	10:58:22 AM	0:10:00				
Date	11/15/2022	11/15/2022					

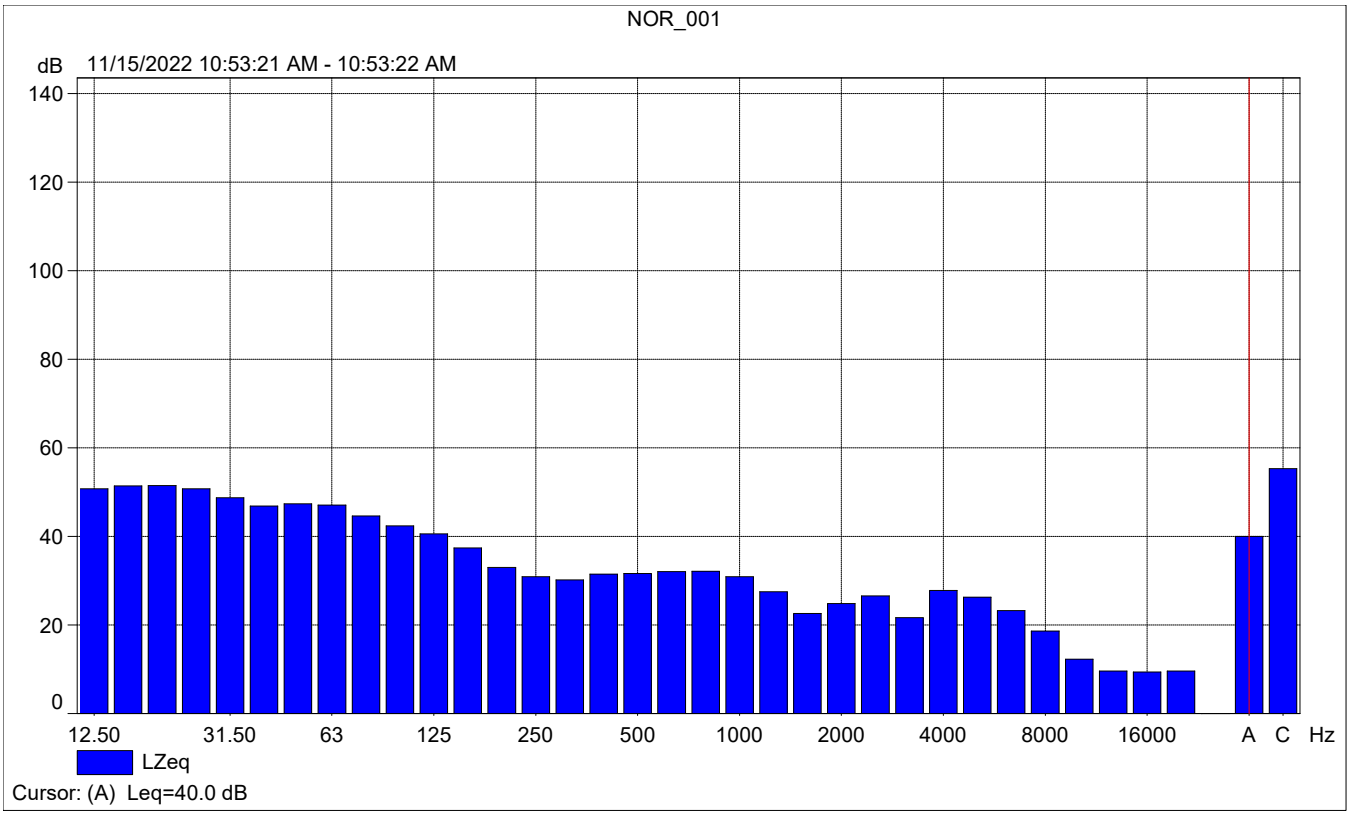

NOR_001
dB 11/15/2022 10:48:22 AM - 10:58:22 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=50.8 dB LFmax=67.4 dB LFmin=37.7 dB

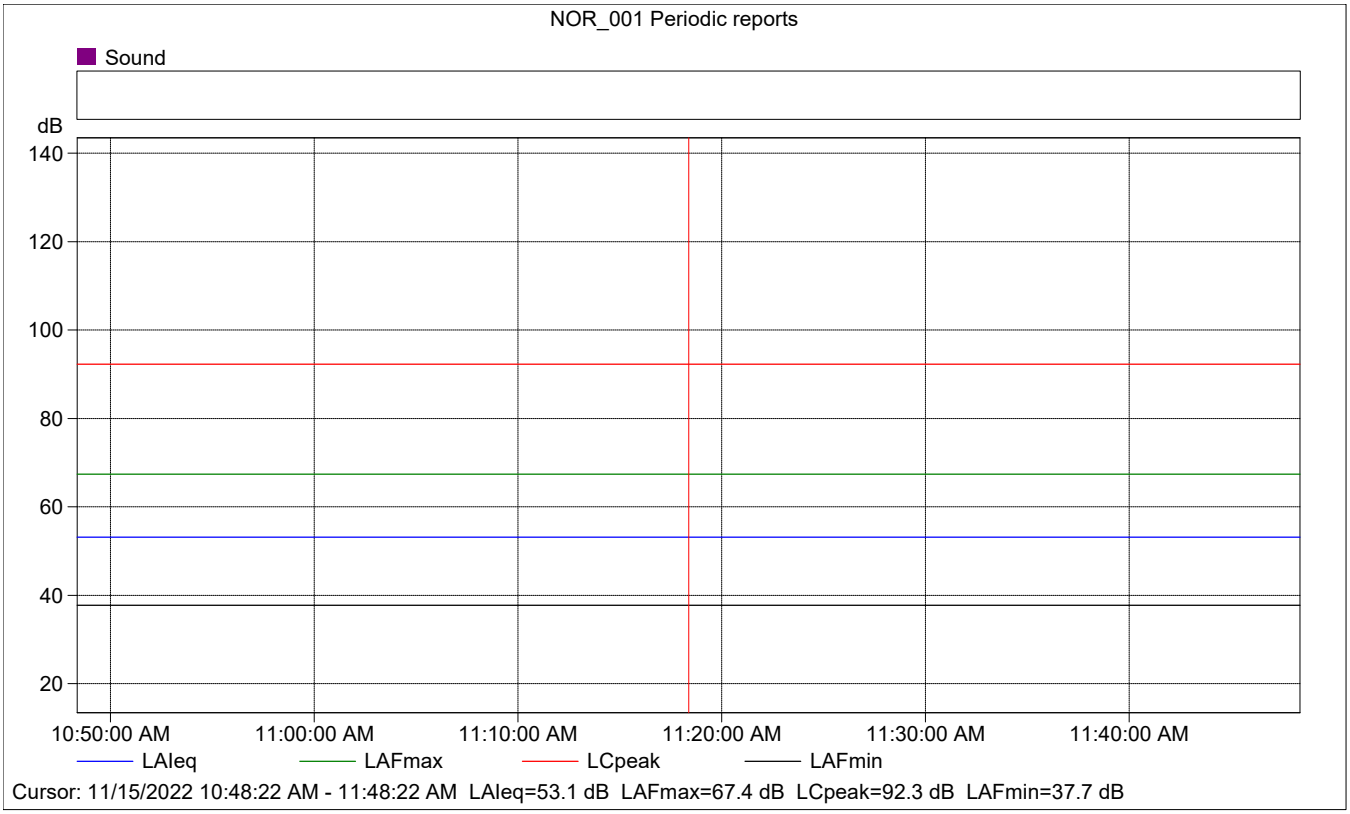

NOR_001
% Based on LAF , 10ms Class width: 0.2 dB 11/15/2022 10:48:22 AM - 10:58:22 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 64.1 dB
L5 = 57.2 dB
L10 = 52.0 dB
L50 = 43.1 dB
L90 = 39.8 dB
L95 = 39.4 dB
L99 = 38.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NOR_001

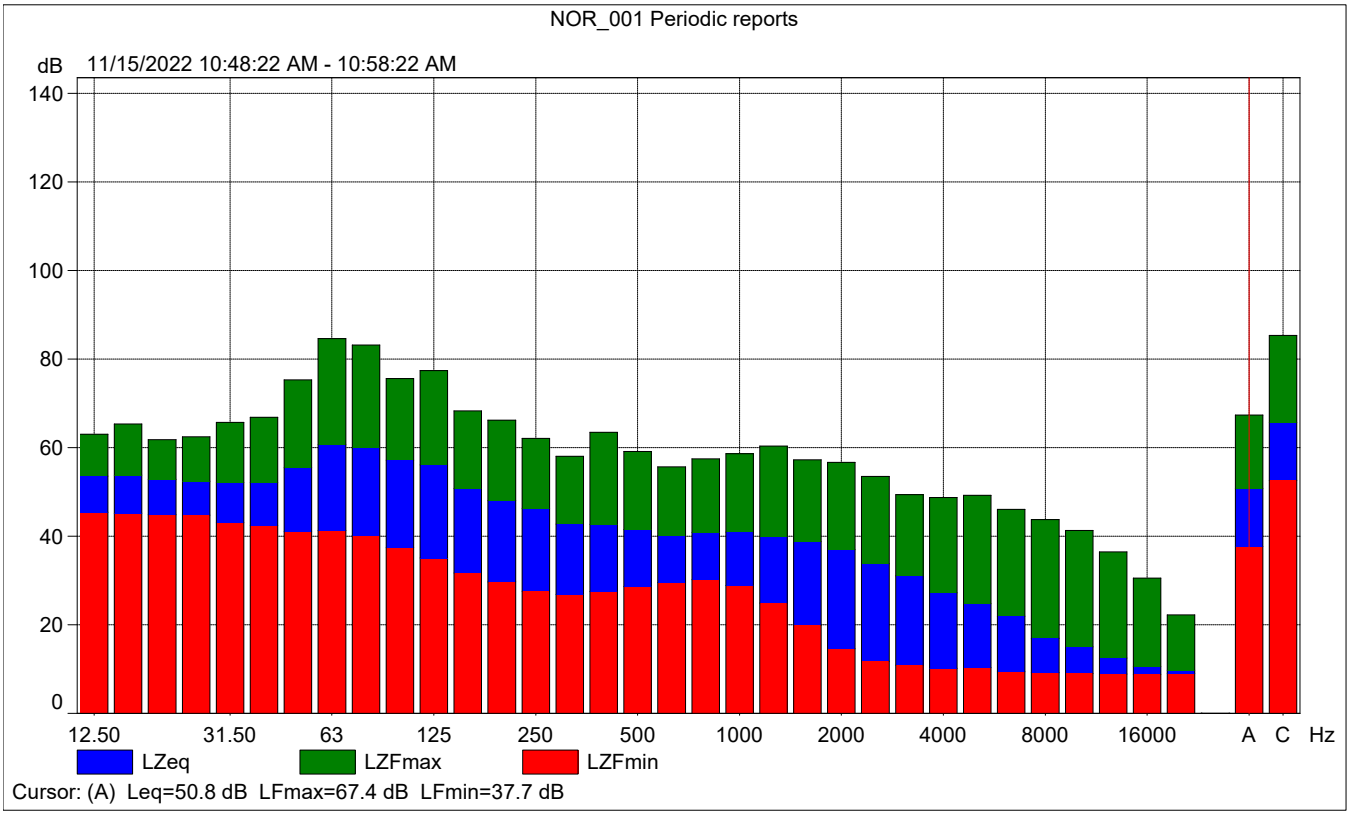
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			43.0	42.7	38.4
Time	10:53:21 AM	0:00:01			
Date	11/15/2022				

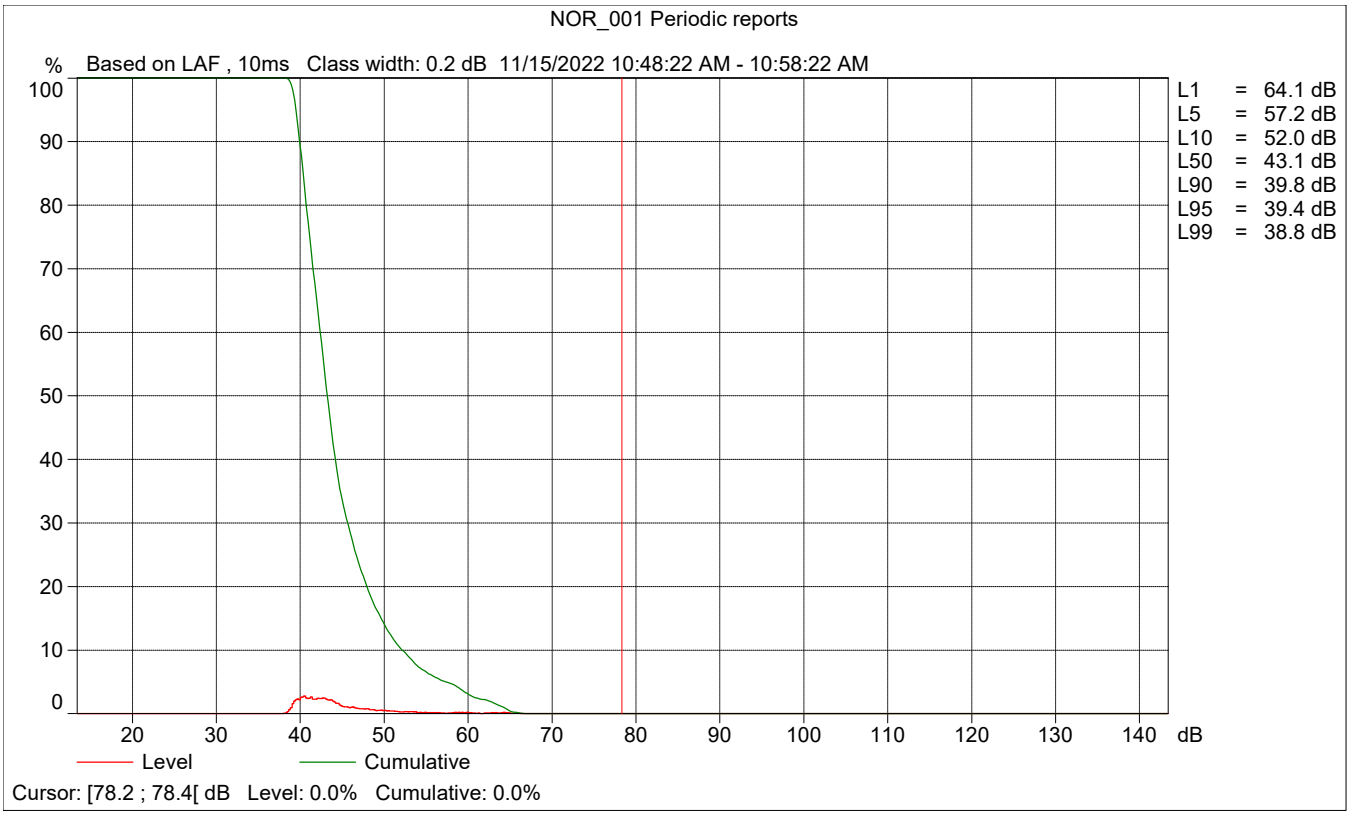

NOR_001
dB
11/15/2022 10:53:21 AM - 10:53:22 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=40.0 dB


NOR_001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:50:00 AM
11:00:00 AM
11:10:00 AM
11:20:00 AM
11:30:00 AM
11:40:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 11/15/2022 10:48:22 AM - 11:48:22 AM LAIeq=53.1 dB LAFmax=67.4 dB LCpeak=92.3 dB LAFmin=37.7 dB

NOR_001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	53.1	67.4	37.7
Time	10:48:22 AM	0:10:00				
Date	11/15/2022					



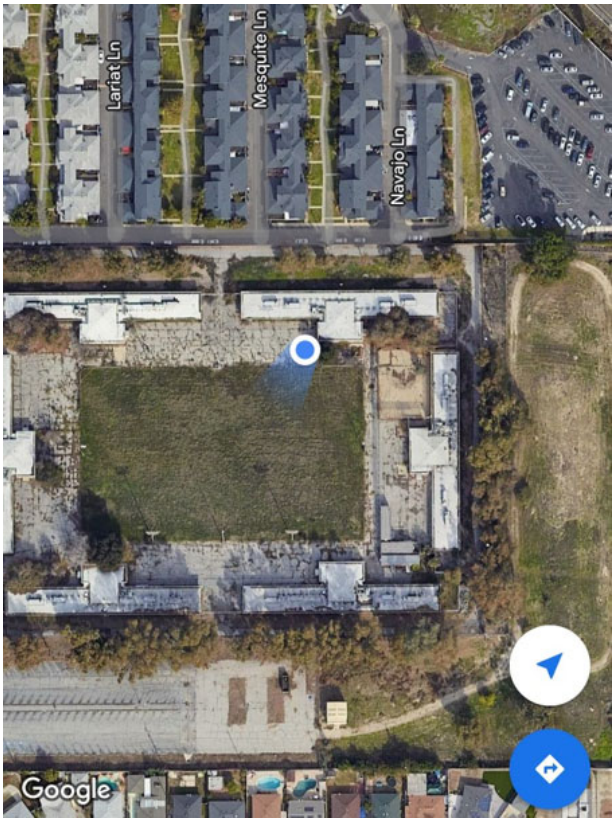

NOR_001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 11/15/2022 10:48:22 AM - 10:58:22 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 64.1 dB
L5 = 57.2 dB
L10 = 52.0 dB
L50 = 43.1 dB
L90 = 39.8 dB
L95 = 39.4 dB
L99 = 38.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-2			
Recorded By: Winnie Woo, Eddie Torres			
Job Number: 187917			
Date: 11/15/22			
Time: 11:10 a.m.			
Location: In the northeast portion of the site, by the easternmost basketball hoop			
Source of Ambient Noise: Train driving by, Traffic in the vicinity			
Source of Peak Noise: Train horn			
Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
44.9	58.9	38.7	83.6

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**03/10/2022**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**03/10/2022**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**03/10/2022**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**03/10/2022**	

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)**
	1.1 mph	73	39

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		11/15/2022 11:09:40
End Time:		11/15/2022 11:19:40
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.17

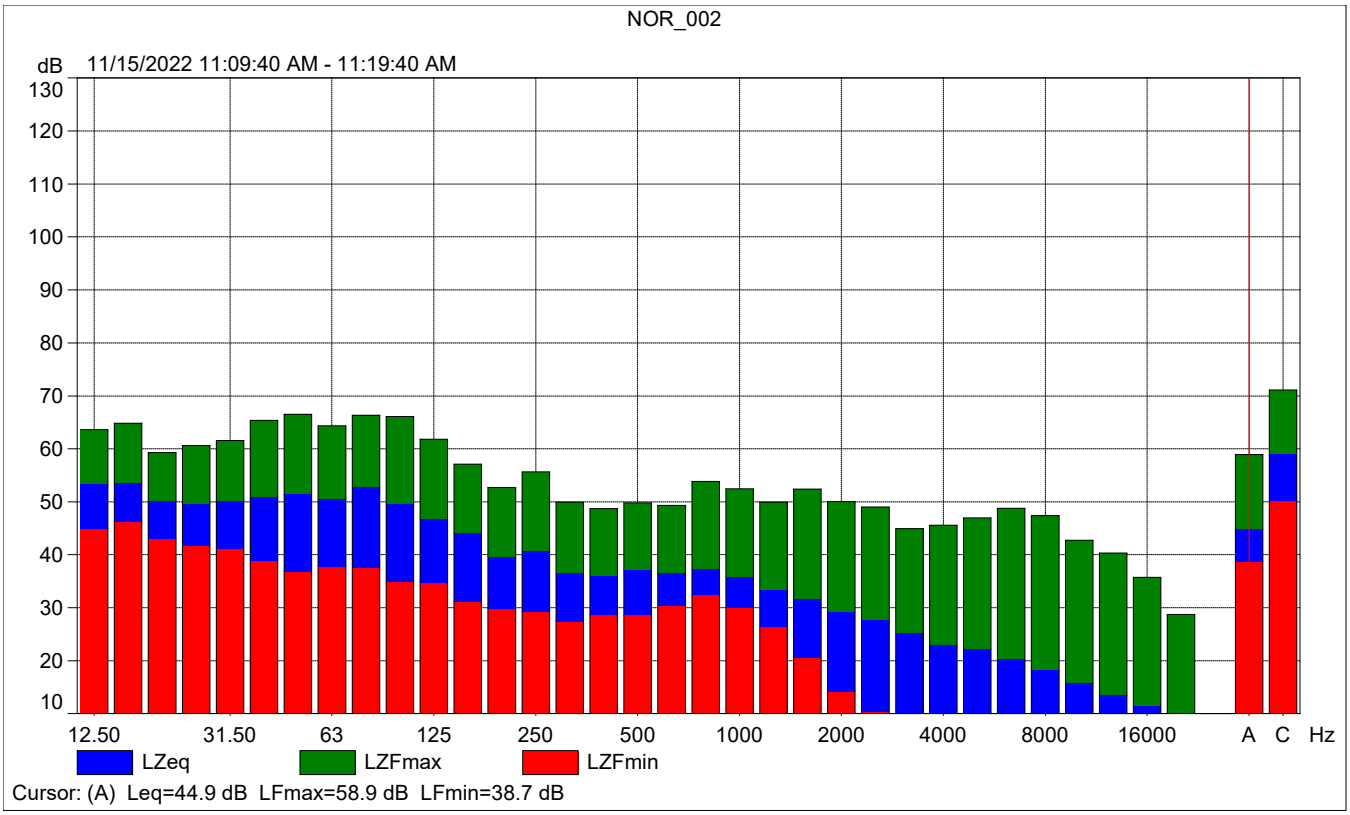
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

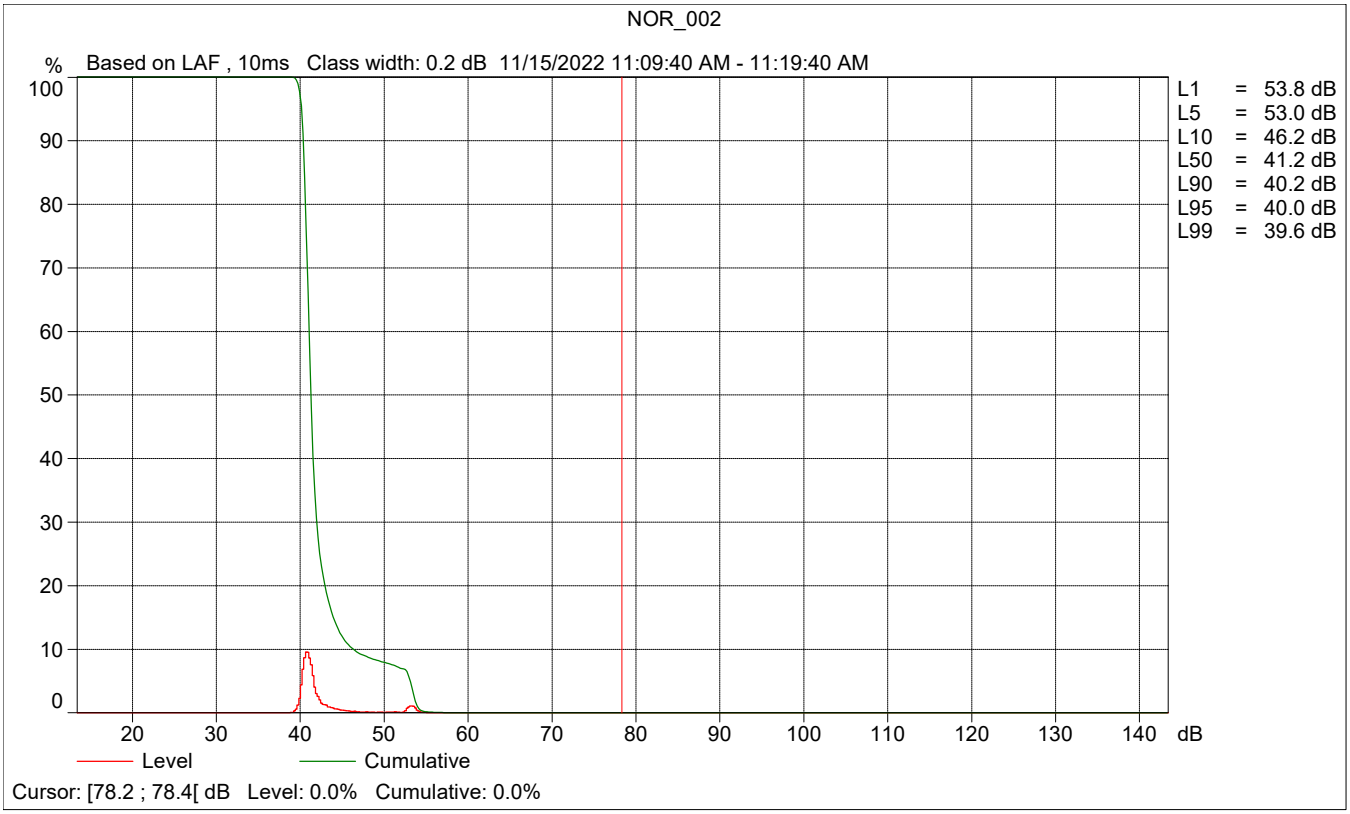
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

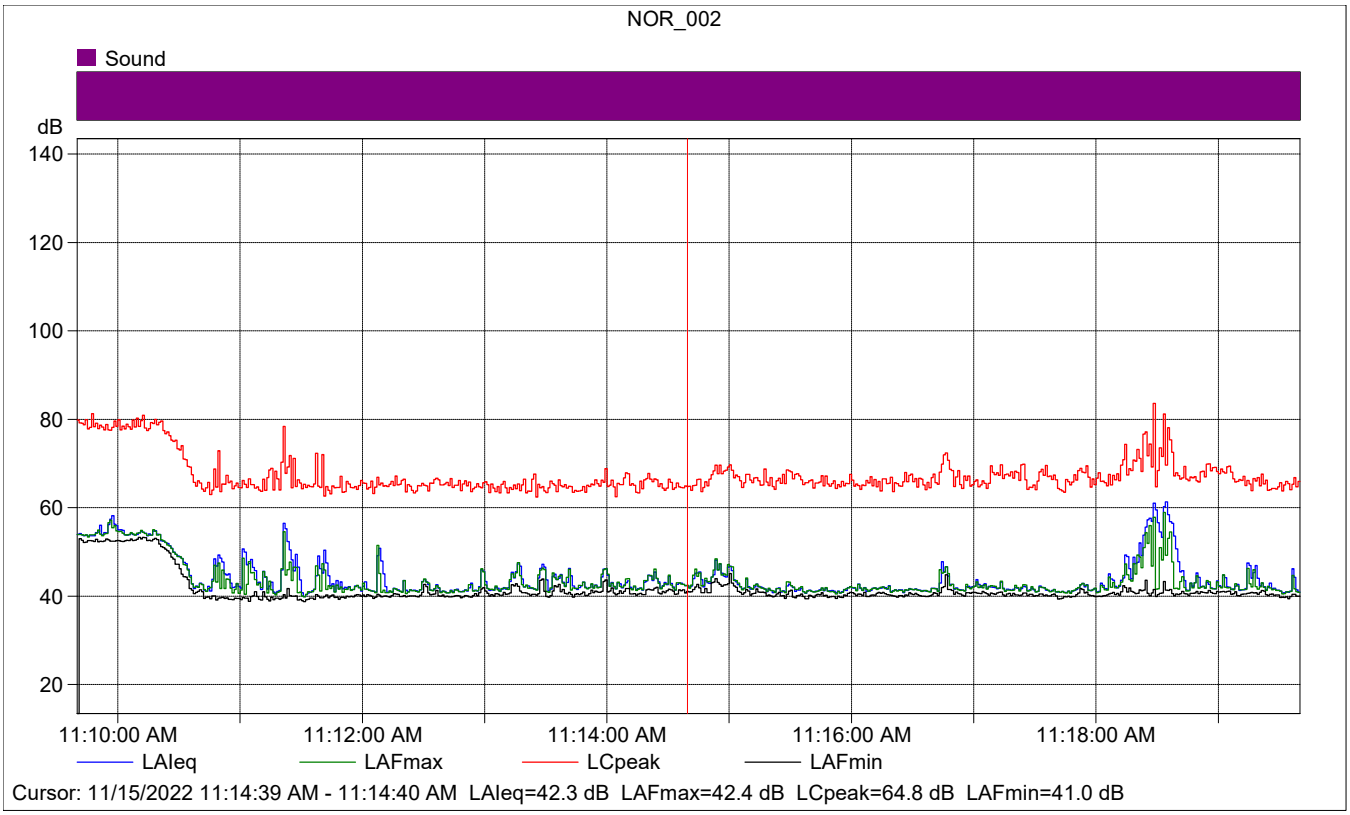
Calibration Time:		11/15/2022 09:14:42
Calibration Type:		External reference
Sensitivity:		43.3700568974018 mV/Pa

NOR_002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	44.9	58.9	38.7
Time	11:09:40 AM	11:19:40 AM	0:10:00				
Date	11/15/2022	11/15/2022					

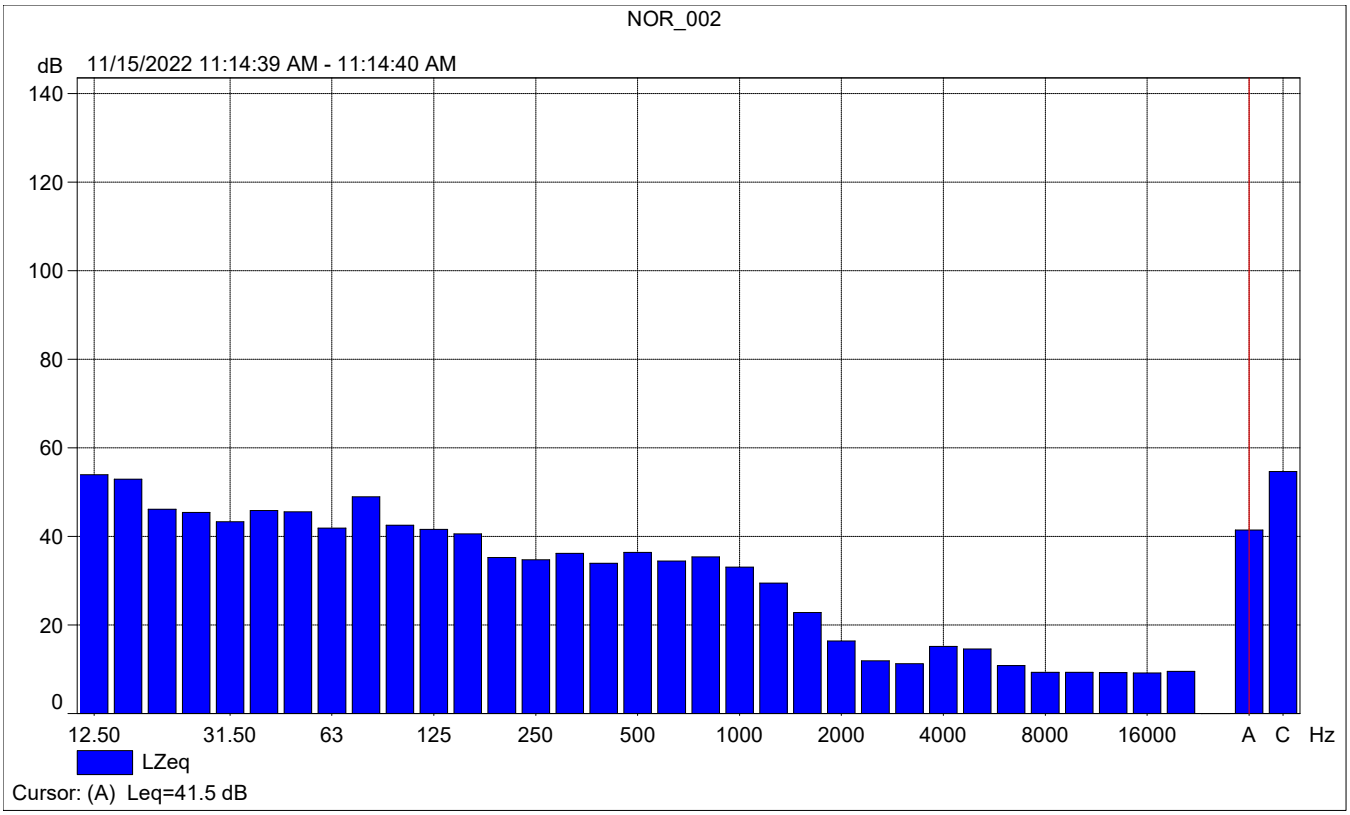

NOR_002
dB 11/15/2022 11:09:40 AM - 11:19:40 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=44.9 dB LFmax=58.9 dB LFmin=38.7 dB

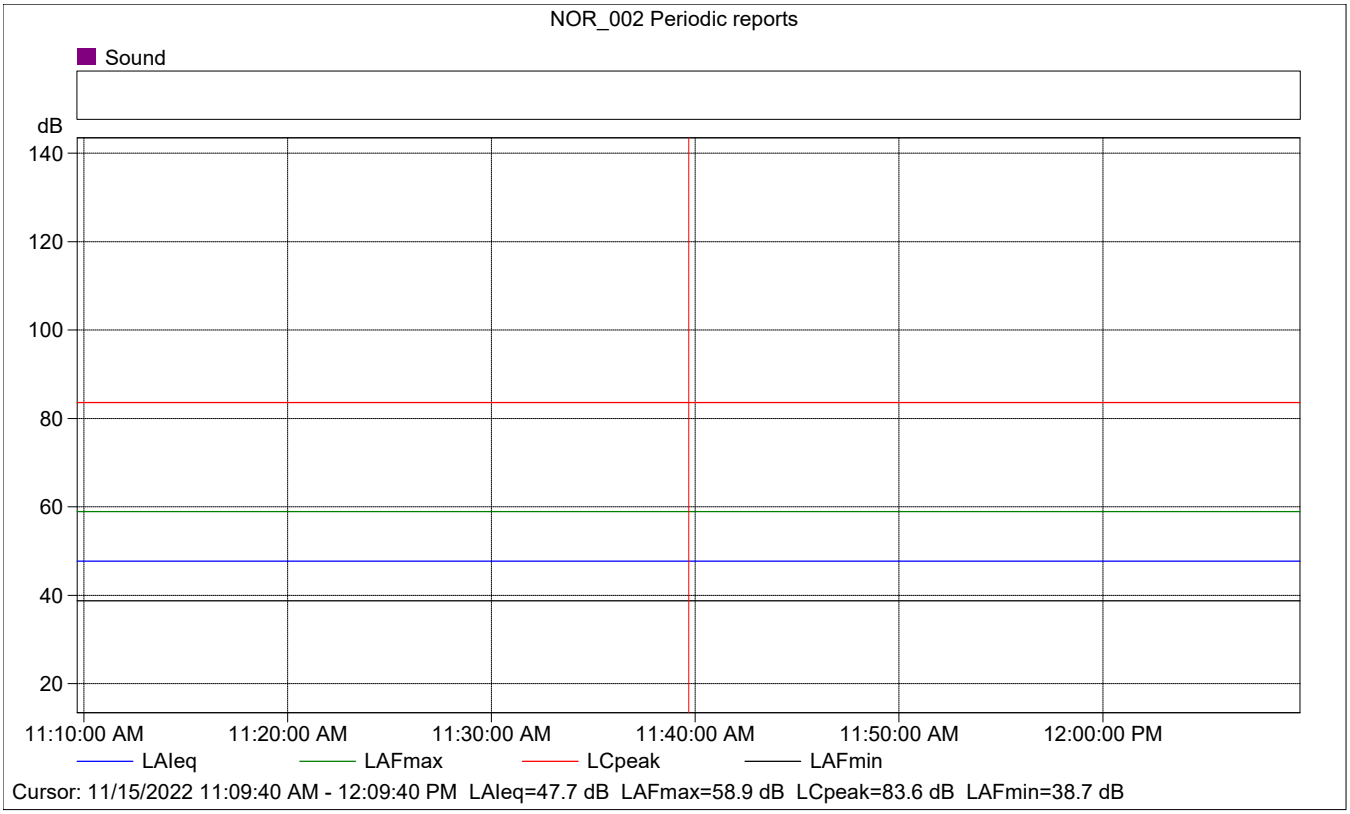

NOR_002
% Based on LAF , 10ms Class width: 0.2 dB 11/15/2022 11:09:40 AM - 11:19:40 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 53.8 dB
L5 = 53.0 dB
L10 = 46.2 dB
L50 = 41.2 dB
L90 = 40.2 dB
L95 = 40.0 dB
L99 = 39.6 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NOR_002

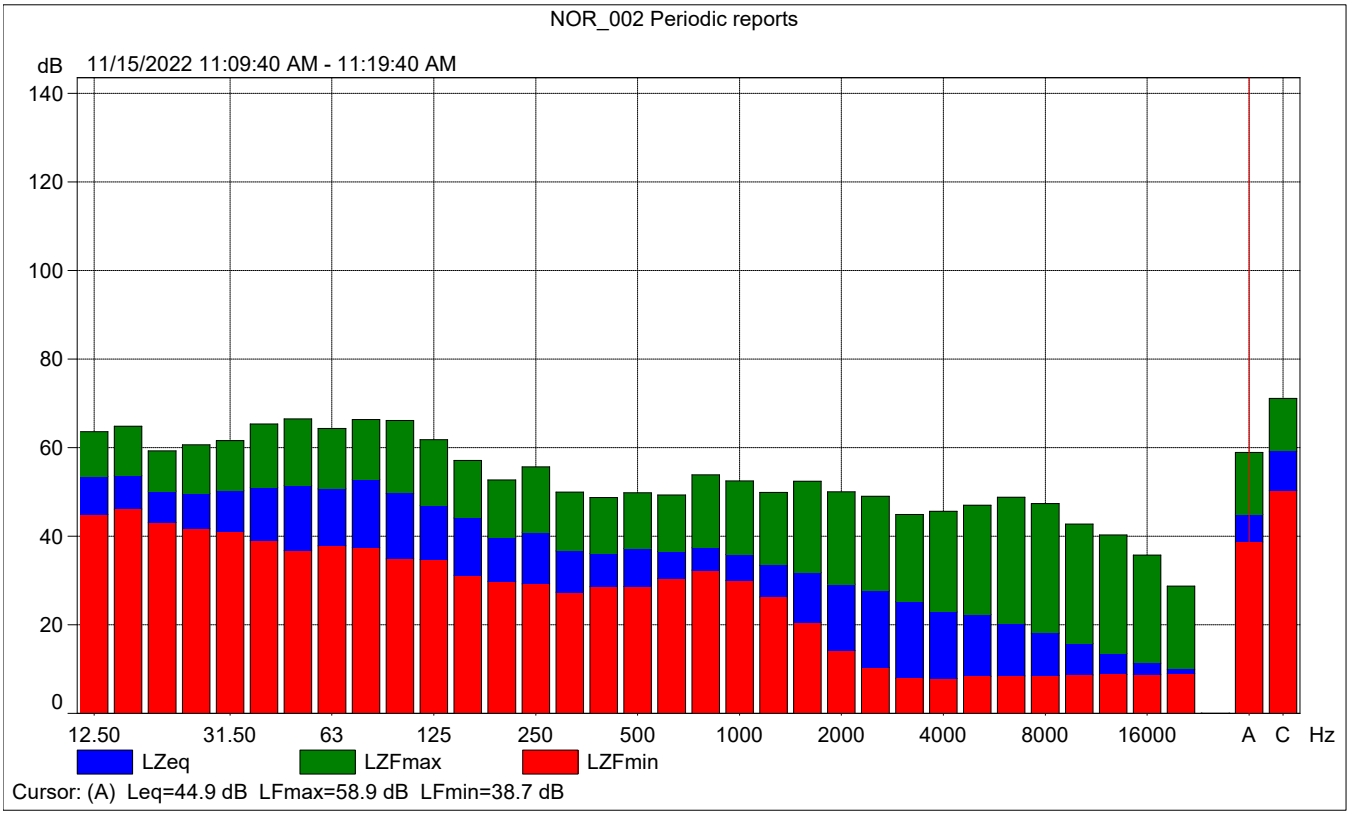
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			42.3	42.4	41.0
Time	11:14:39 AM	0:00:01			
Date	11/15/2022				

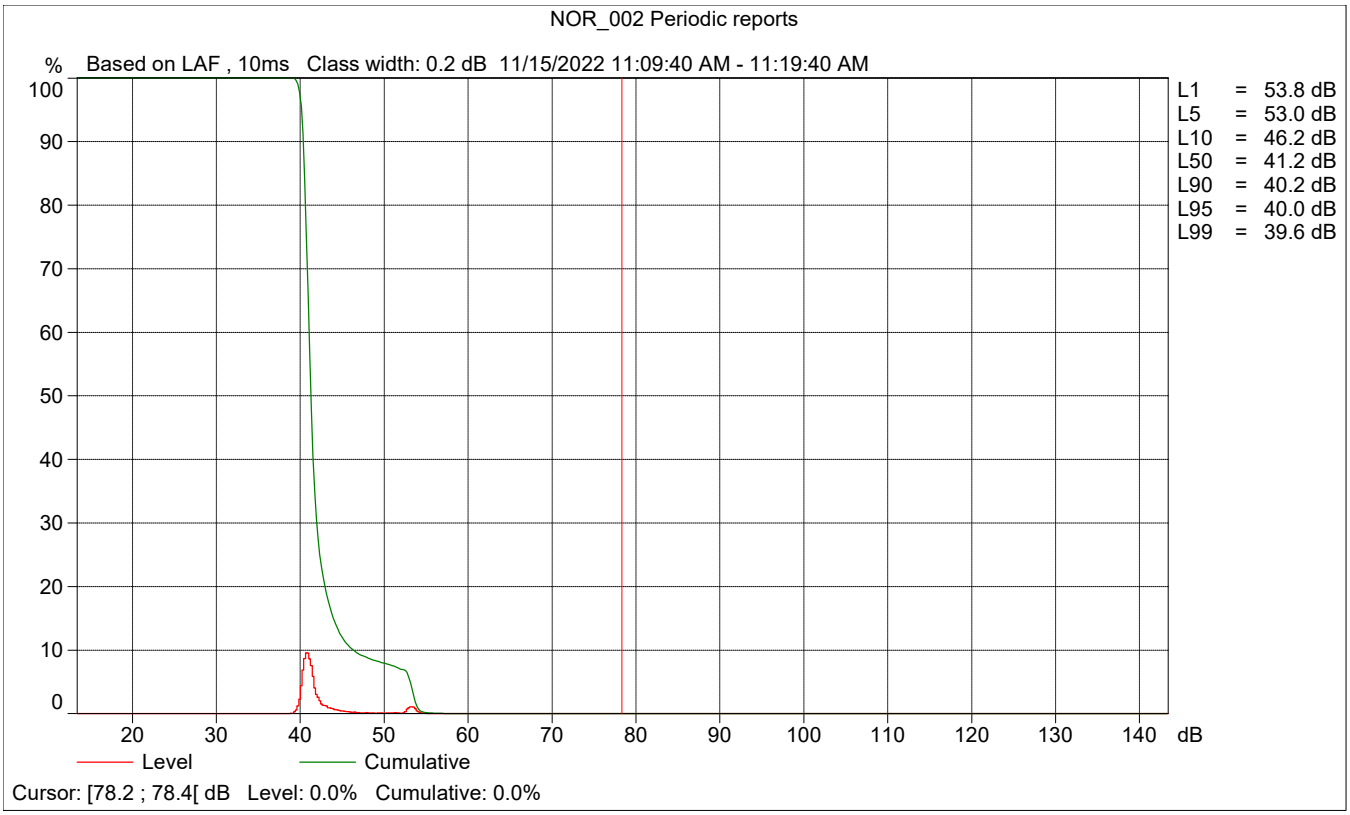

NOR_002
dB
11/15/2022 11:14:39 AM - 11:14:40 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=41.5 dB


NOR_002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
11:10:00 AM
11:20:00 AM
11:30:00 AM
11:40:00 AM
11:50:00 AM
12:00:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 11/15/2022 11:09:40 AM - 12:09:40 PM LAIeq=47.7 dB LAFmax=58.9 dB LCpeak=83.6 dB LAFmin=38.7 dB

NOR_002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	47.7	58.9	38.7
Time	11:09:40 AM	0:10:00				
Date	11/15/2022					




NOR_002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 11/15/2022 11:09:40 AM - 11:19:40 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 53.8 dB
L5 = 53.0 dB
L10 = 46.2 dB
L50 = 41.2 dB
L90 = 40.2 dB
L95 = 40.0 dB
L99 = 39.6 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

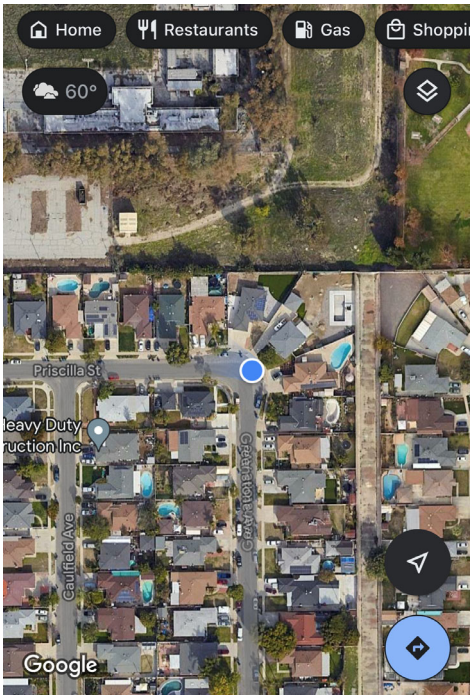
Site Number: NM-1						
Recorded By: Darshan Shivaiah, Tina Yuan						
Job Number: 187917						
Date: 12/1/22						
Time: 12:10 p.m.						
Location: On the sidewalk, in front of 12855 Priscilla Street						
Source of Ambient Noise: Traffic noise along Priscilla Street						
Source of Peak Noise: Overhead Plane						

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
55.9	73.5	48.7	92.5

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**03/10/2022**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**03/10/2022**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**03/10/2022**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**03/10/2022**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Partly Cloudy
	Note: dBA Offset = 0.00		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	5 mph	60	30.04

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		12/01/2022 12:10:06
End Time:		12/01/2022 12:20:06
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.17

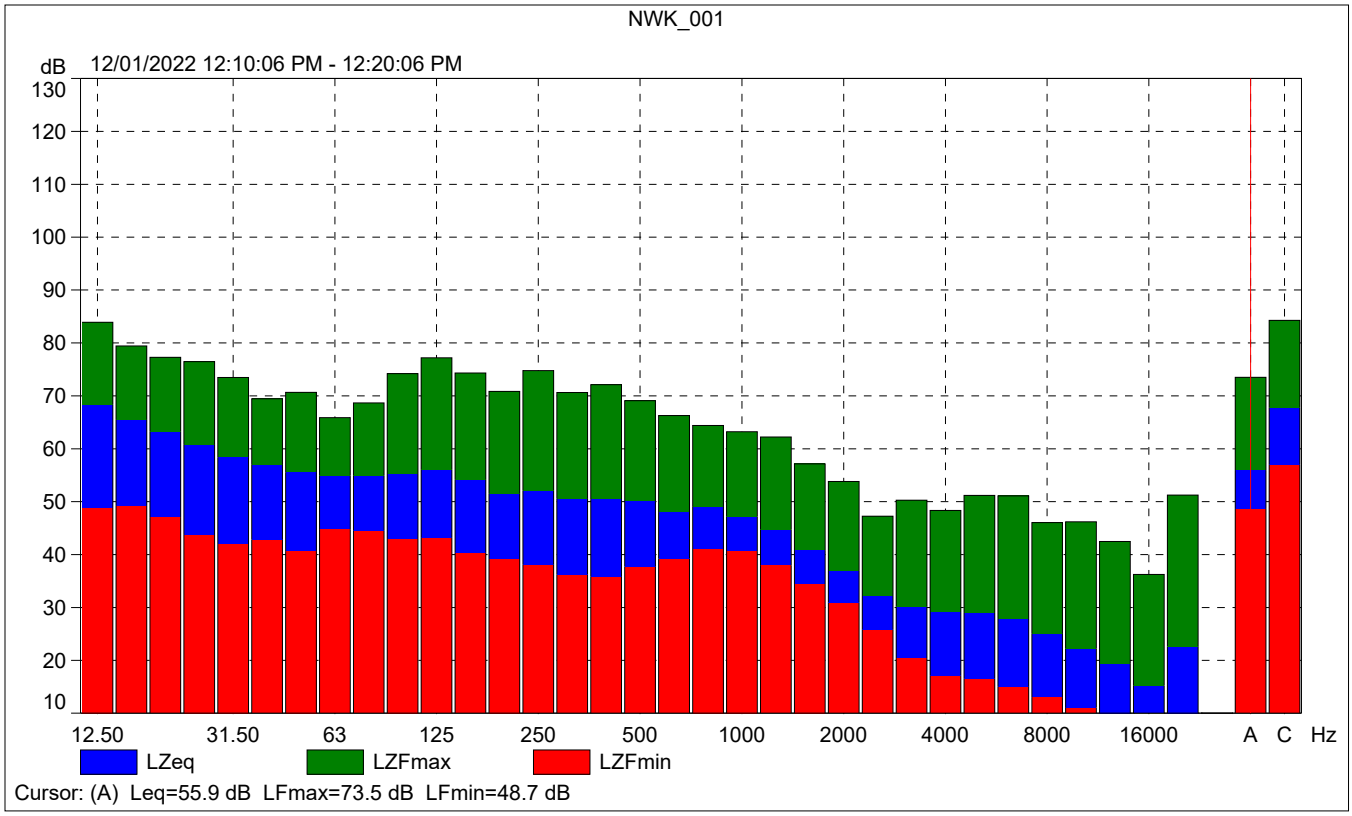
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

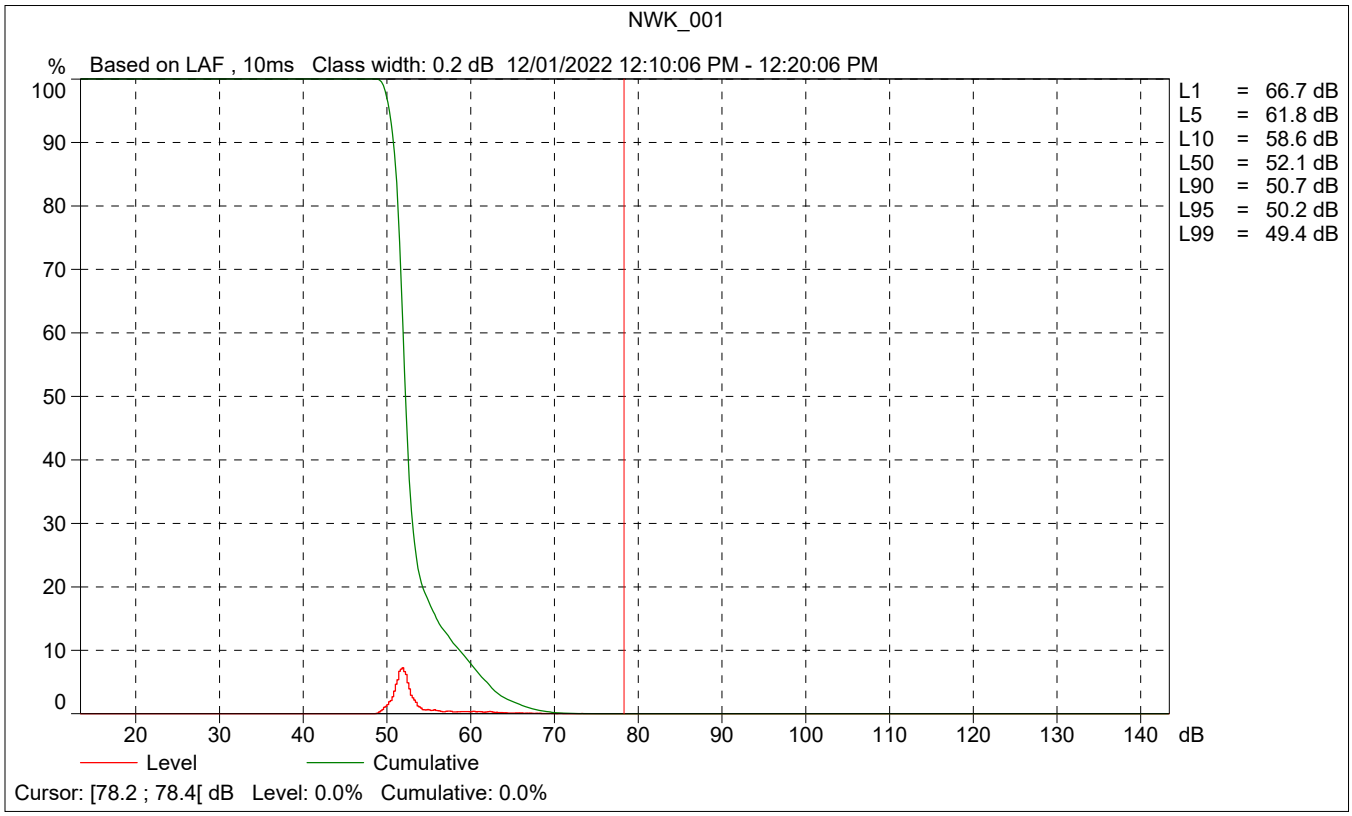
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

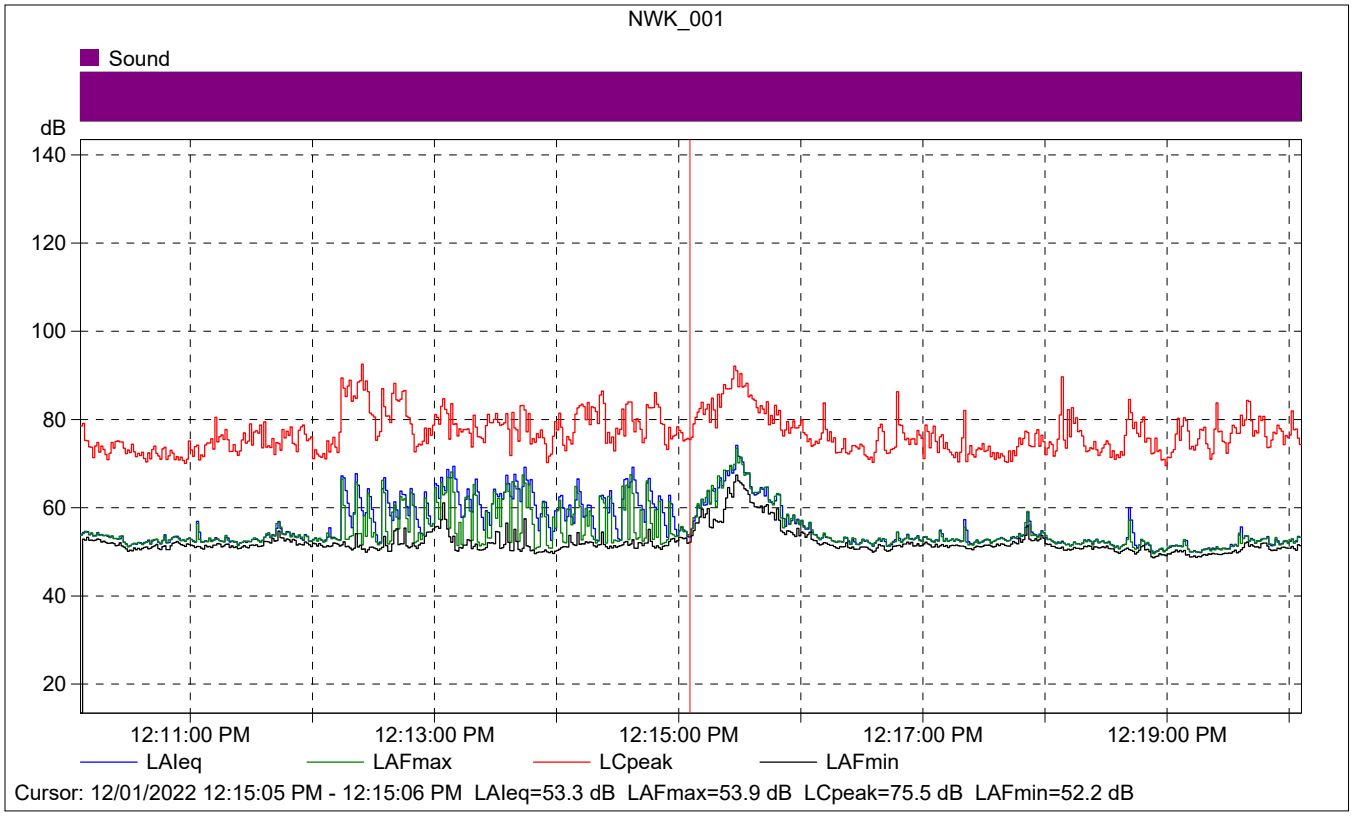
Calibration Time:		12/01/2022 08:14:00
Calibration Type:		External reference
Sensitivity:		43.3600731194019 mV/Pa

NWK_001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	55.9	73.5	48.7
Time	12:10:06 PM	12:20:06 PM	0:10:00				
Date	12/01/2022	12/01/2022					

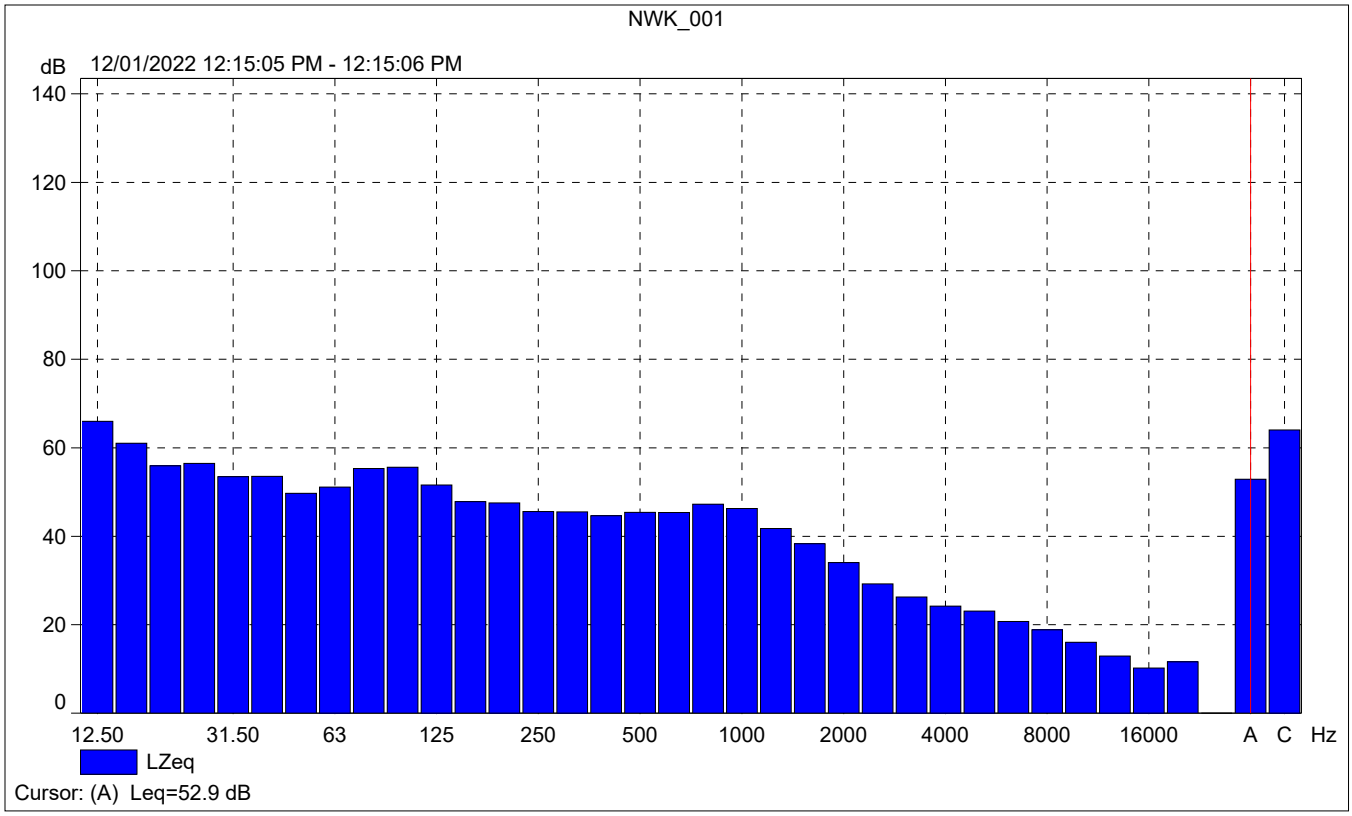

NWK_001
dB
12/01/2022 12:10:06 PM - 12:20:06 PM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=55.9 dB LFmax=73.5 dB LFmin=48.7 dB

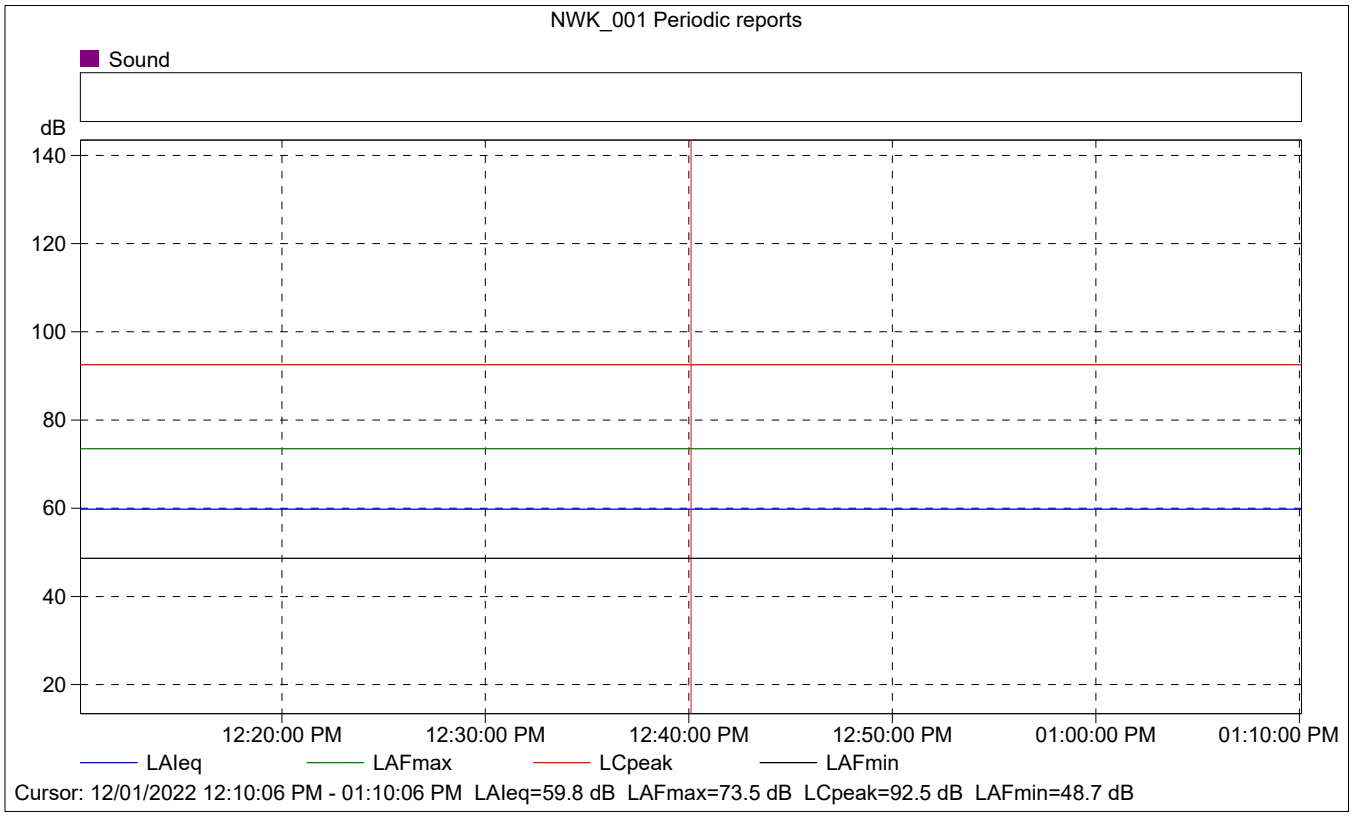

NWK_001
%
Based on LAF , 10ms Class width: 0.2 dB 12/01/2022 12:10:06 PM - 12:20:06 PM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 66.7 dB
L5 = 61.8 dB
L10 = 58.6 dB
L50 = 52.1 dB
L90 = 50.7 dB
L95 = 50.2 dB
L99 = 49.4 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NWK_001

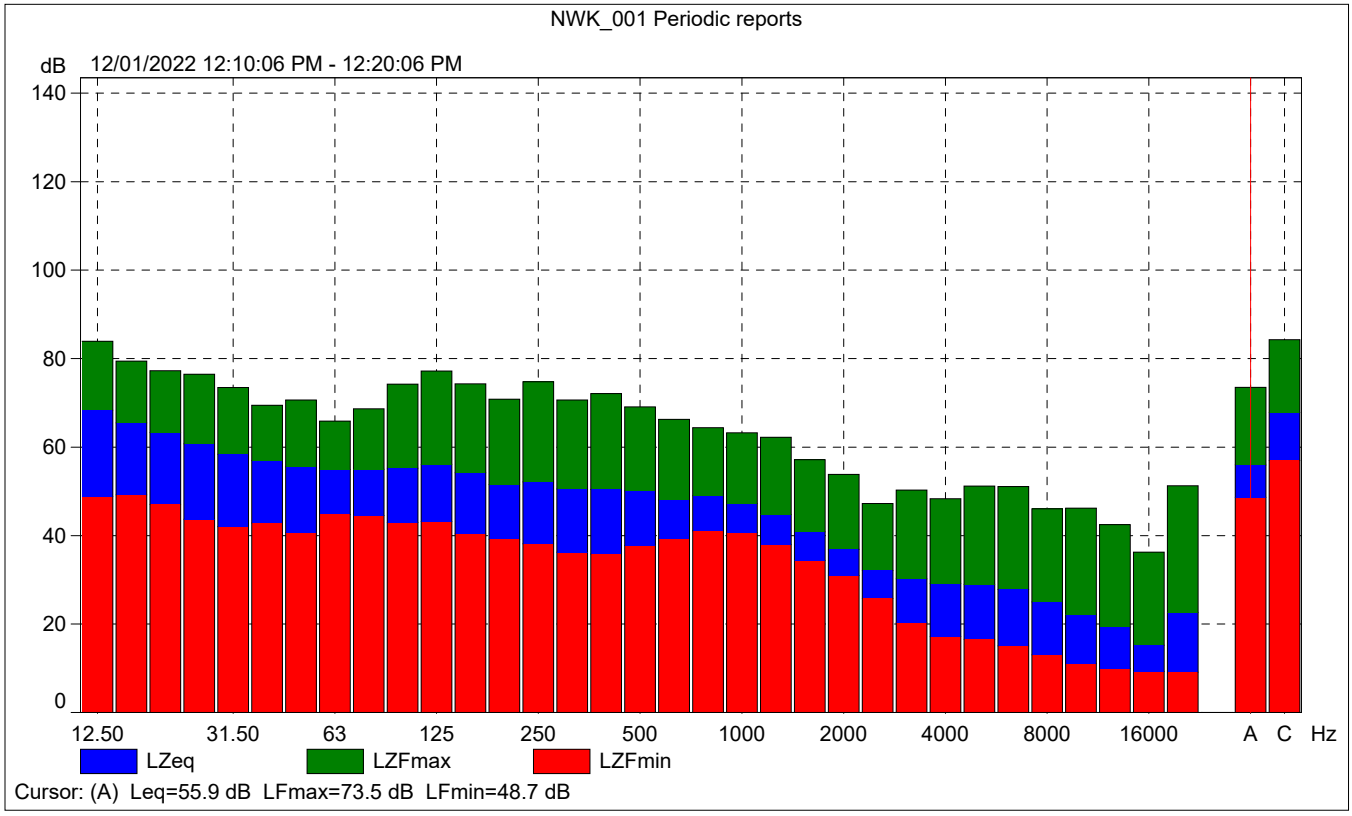
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			53.3	53.9	52.2
Time	12:15:05 PM	0:00:01			
Date	12/01/2022				

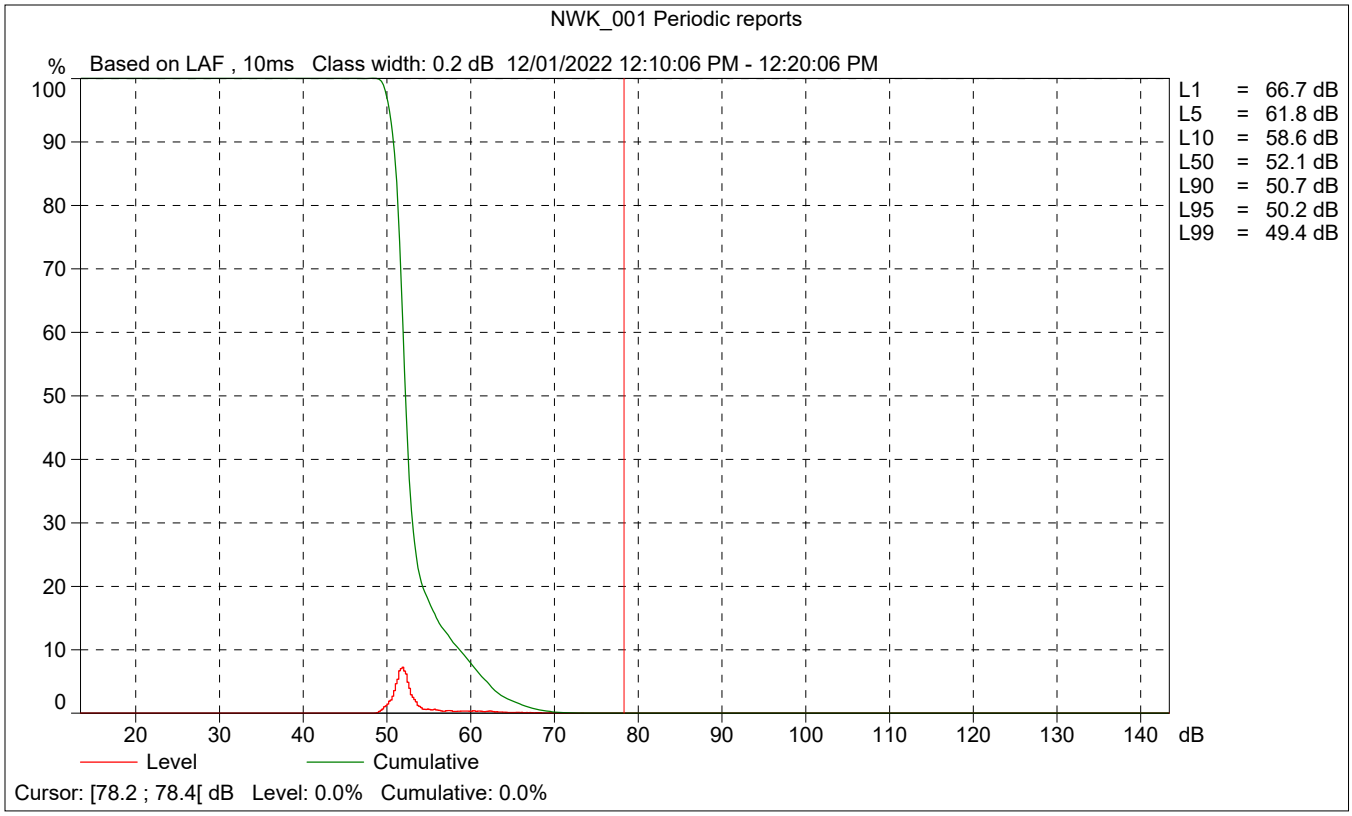

NWK_001
dB
12/01/2022 12:15:05 PM - 12:15:06 PM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=52.9 dB


NWK_001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
12:20:00 PM
12:30:00 PM
12:40:00 PM
12:50:00 PM
01:00:00 PM
01:10:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 12/01/2022 12:10:06 PM - 01:10:06 PM LAIeq=59.8 dB LAFmax=73.5 dB LCpeak=92.5 dB LAFmin=48.7 dB

NWK_001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	59.8	73.5	48.7
Time	12:10:06 PM	0:10:00				
Date	12/01/2022					



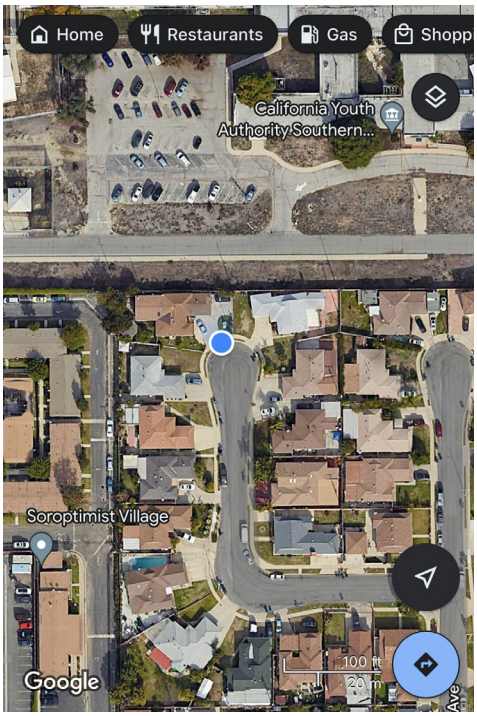

NWK_001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 12/01/2022 12:10:06 PM - 12:20:06 PM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 66.7 dB
L5 = 61.8 dB
L10 = 58.6 dB
L50 = 52.1 dB
L90 = 50.7 dB
L95 = 50.2 dB
L99 = 49.4 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-2			
Recorded By: Darshan Shivaiah, Tina Yuan			
Job Number: 187917			
Date: 12/1/22			
Time: 12:34 p.m.			
Location: On the sidewalk, in front of 13201 Bechard Avenue			
Source of Ambient Noise: Traffic noise along I-5 and Bechard Avenue			
Source of Peak Noise: N/A			
Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
53.6	61.2	49.8	93.1

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**03/10/2022**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**03/10/2022**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**03/10/2022**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**03/10/2022**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Partly Cloudy
	Note: dBA Offset = 0.00		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	5 mph	60	30.04

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		12/01/2022 12:33:50
End Time:		12/01/2022 12:43:50
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.17

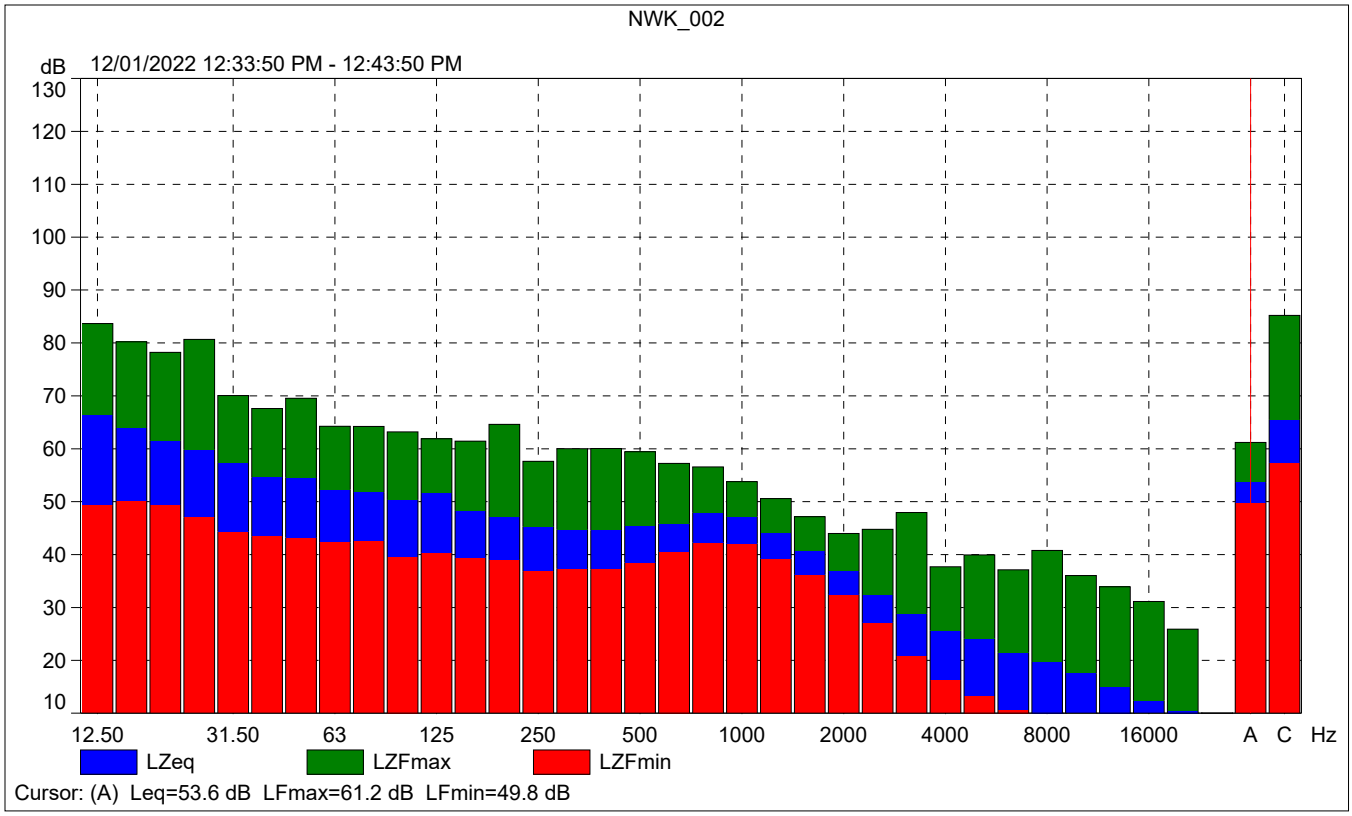
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

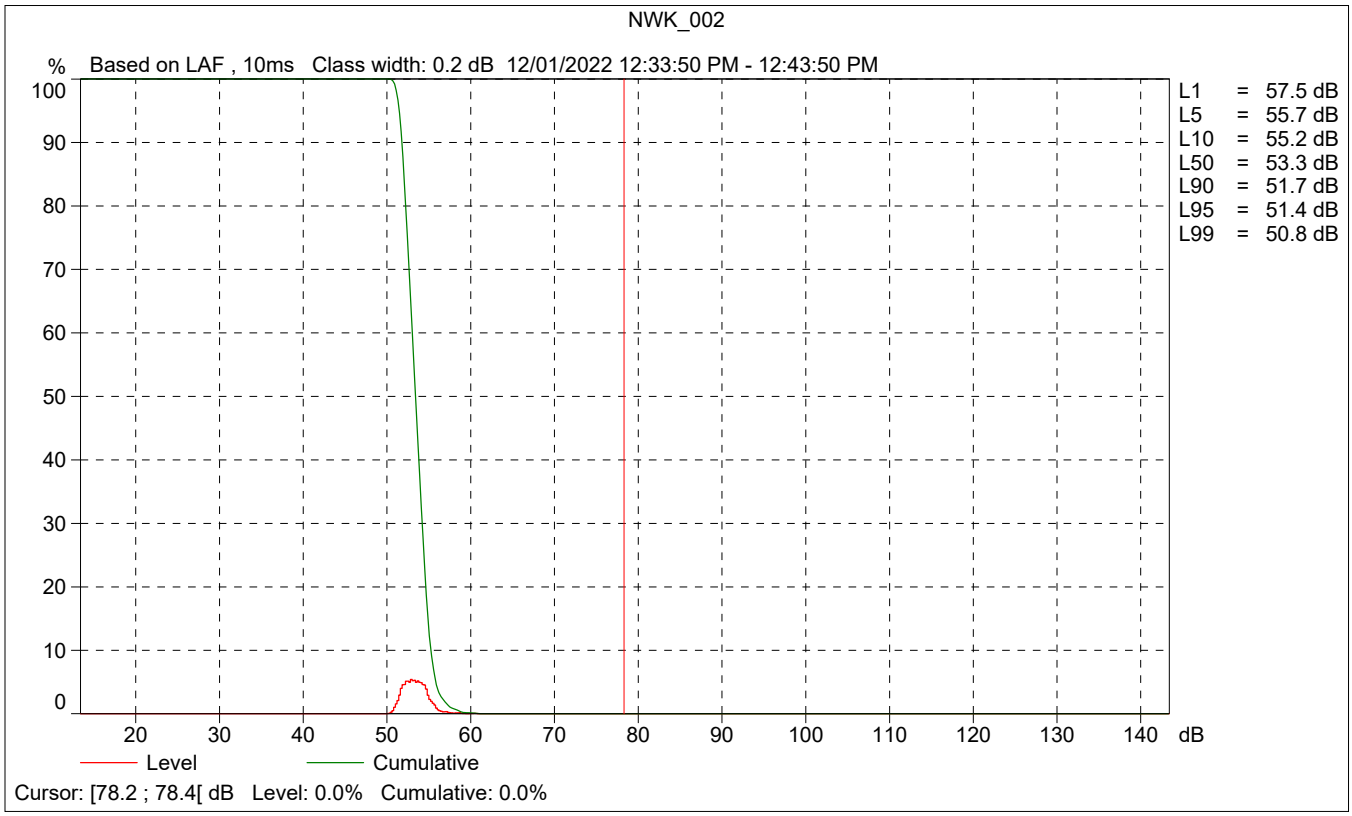
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

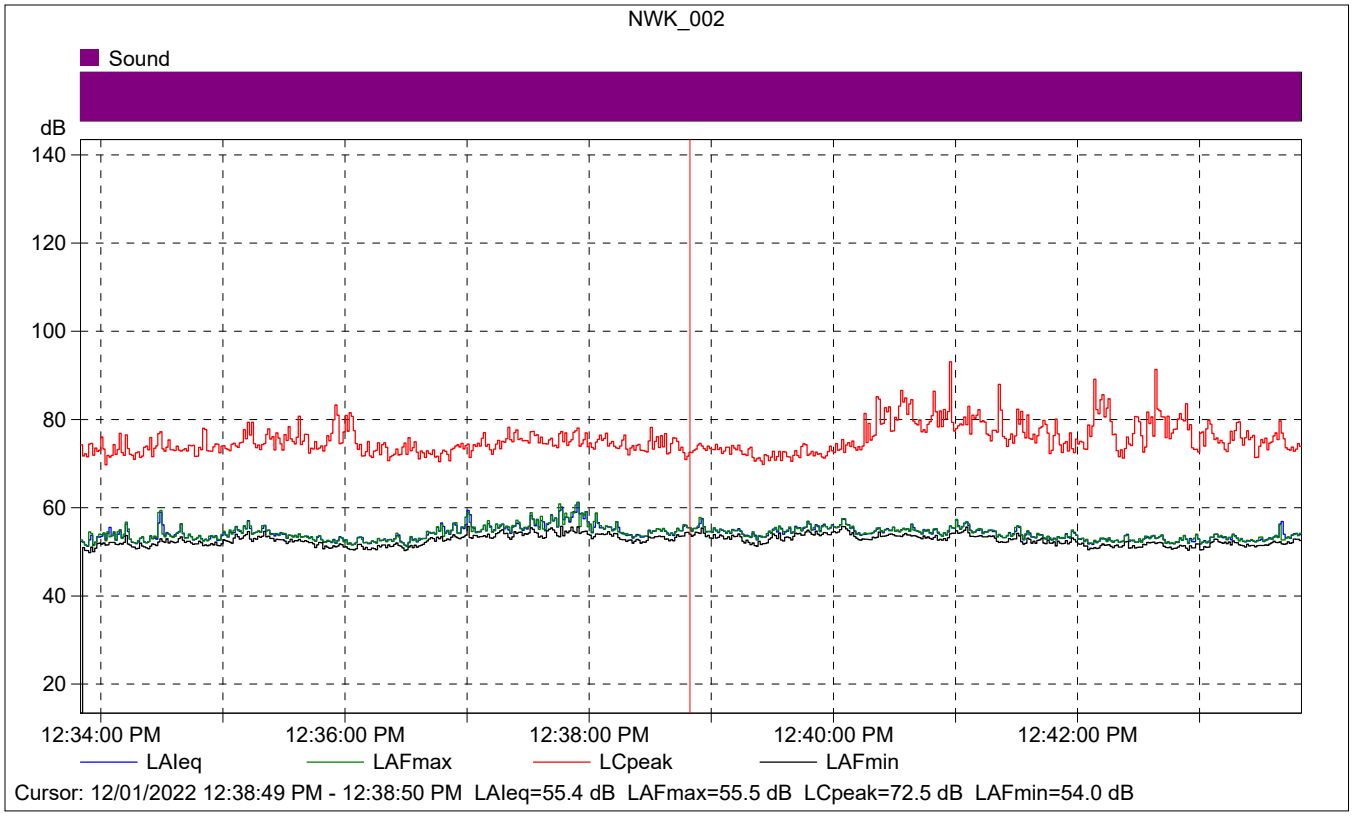
Calibration Time:		12/01/2022 08:14:00
Calibration Type:		External reference
Sensitivity:		43.3600731194019 mV/Pa

NWK_002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	53.6	61.2	49.8
Time	12:33:50 PM	12:43:50 PM	0:10:00				
Date	12/01/2022	12/01/2022					

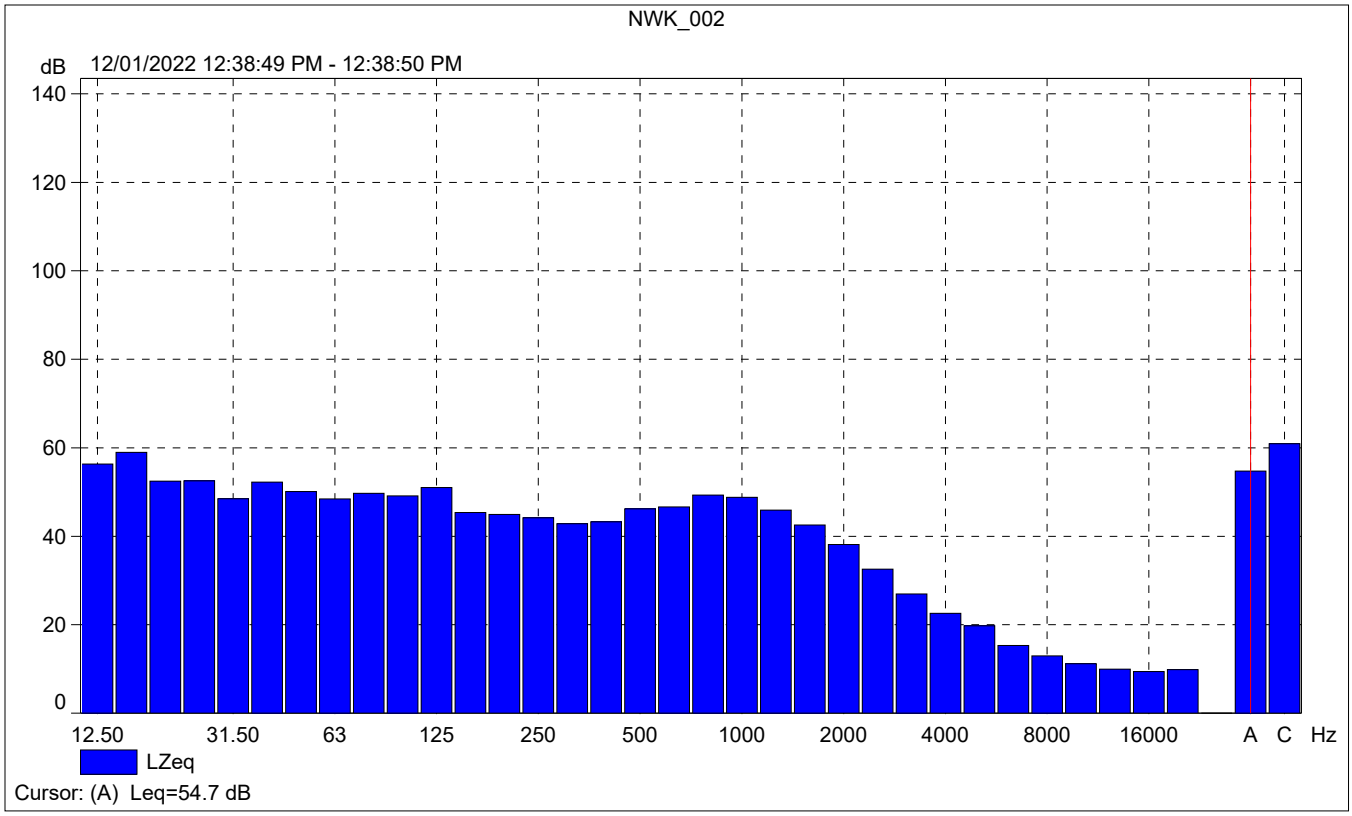

NWK_002
dB
12/01/2022 12:33:50 PM - 12:43:50 PM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=53.6 dB LFmax=61.2 dB LFmin=49.8 dB

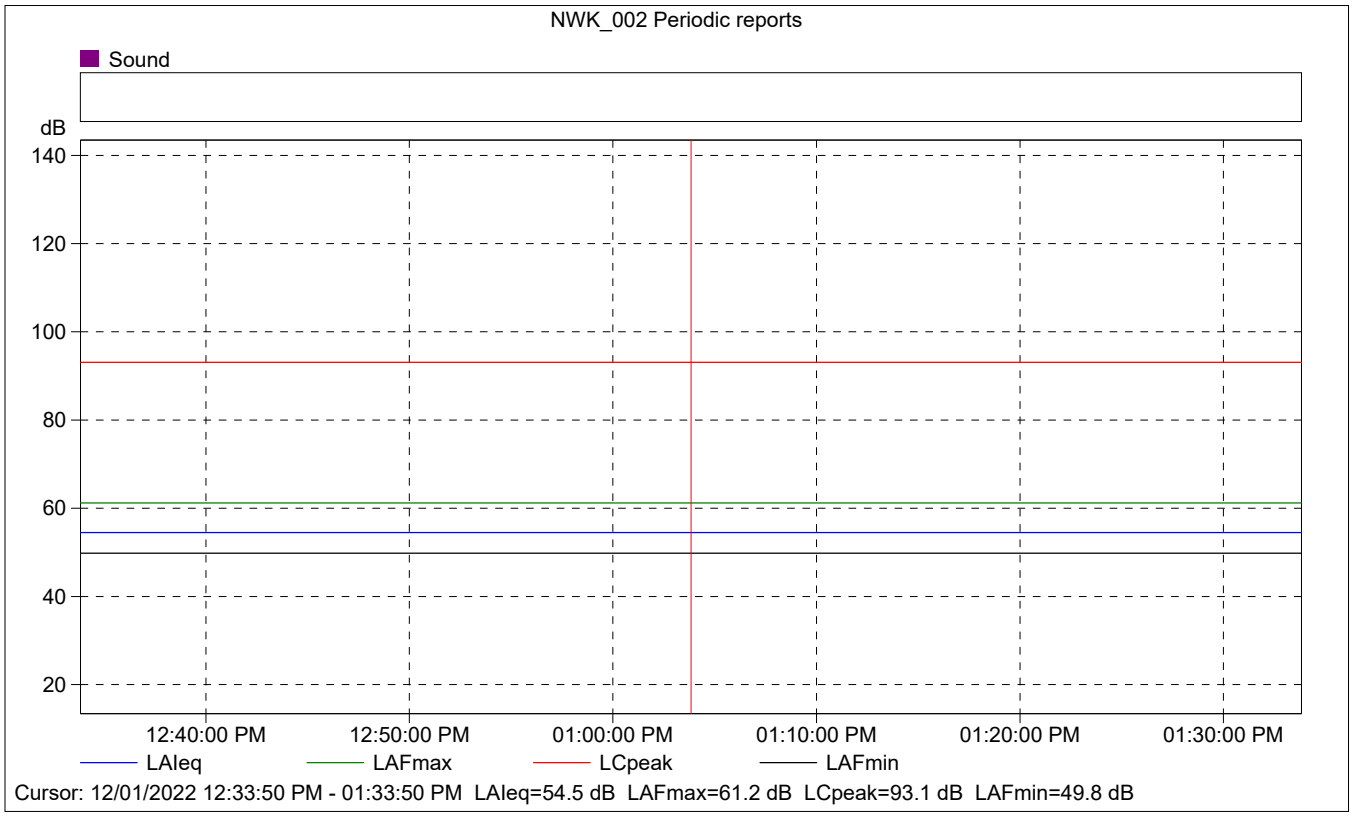

NWK_002
%
Based on LAF , 10ms Class width: 0.2 dB 12/01/2022 12:33:50 PM - 12:43:50 PM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 57.5 dB
L5 = 55.7 dB
L10 = 55.2 dB
L50 = 53.3 dB
L90 = 51.7 dB
L95 = 51.4 dB
L99 = 50.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NWK_002

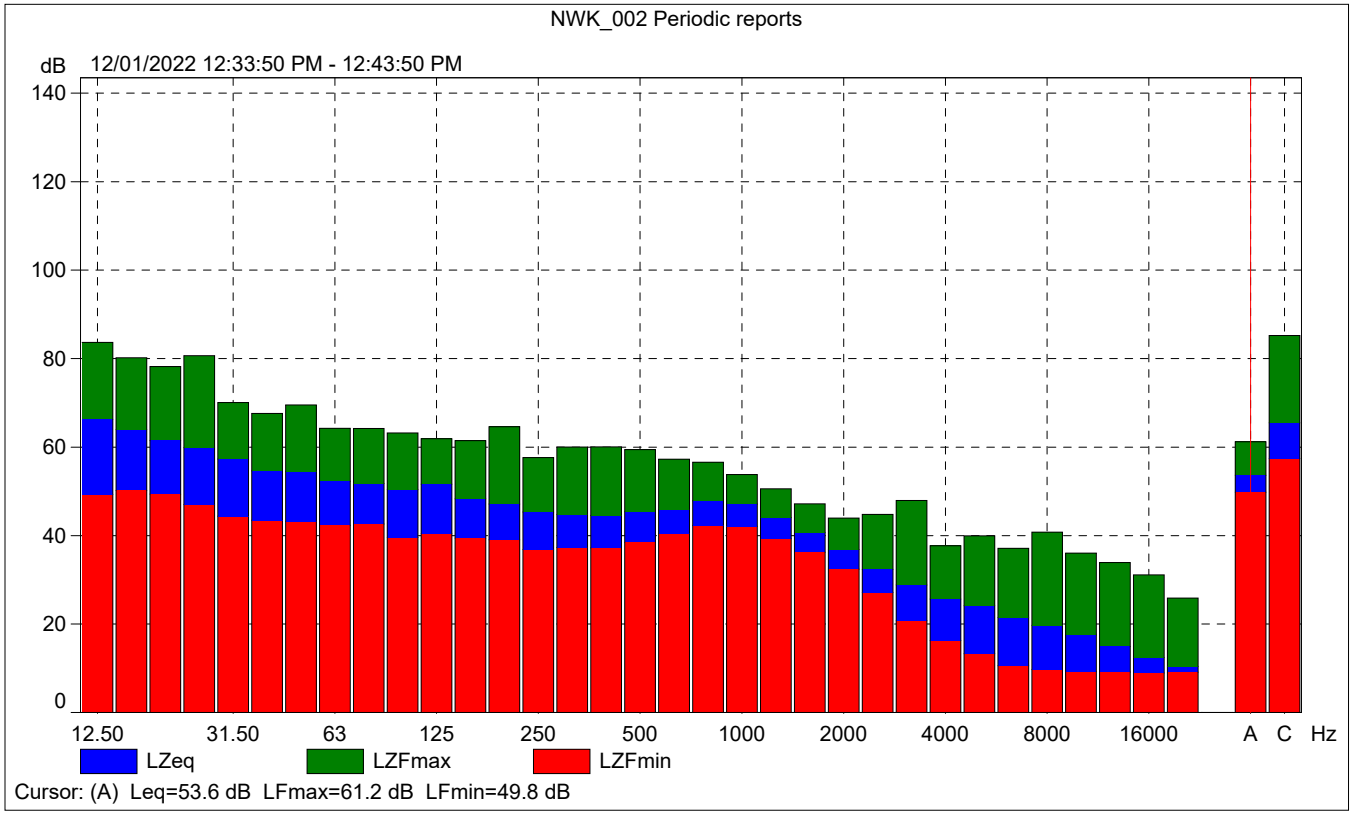
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			55.4	55.5	54.0
Time	12:38:49 PM	0:00:01			
Date	12/01/2022				

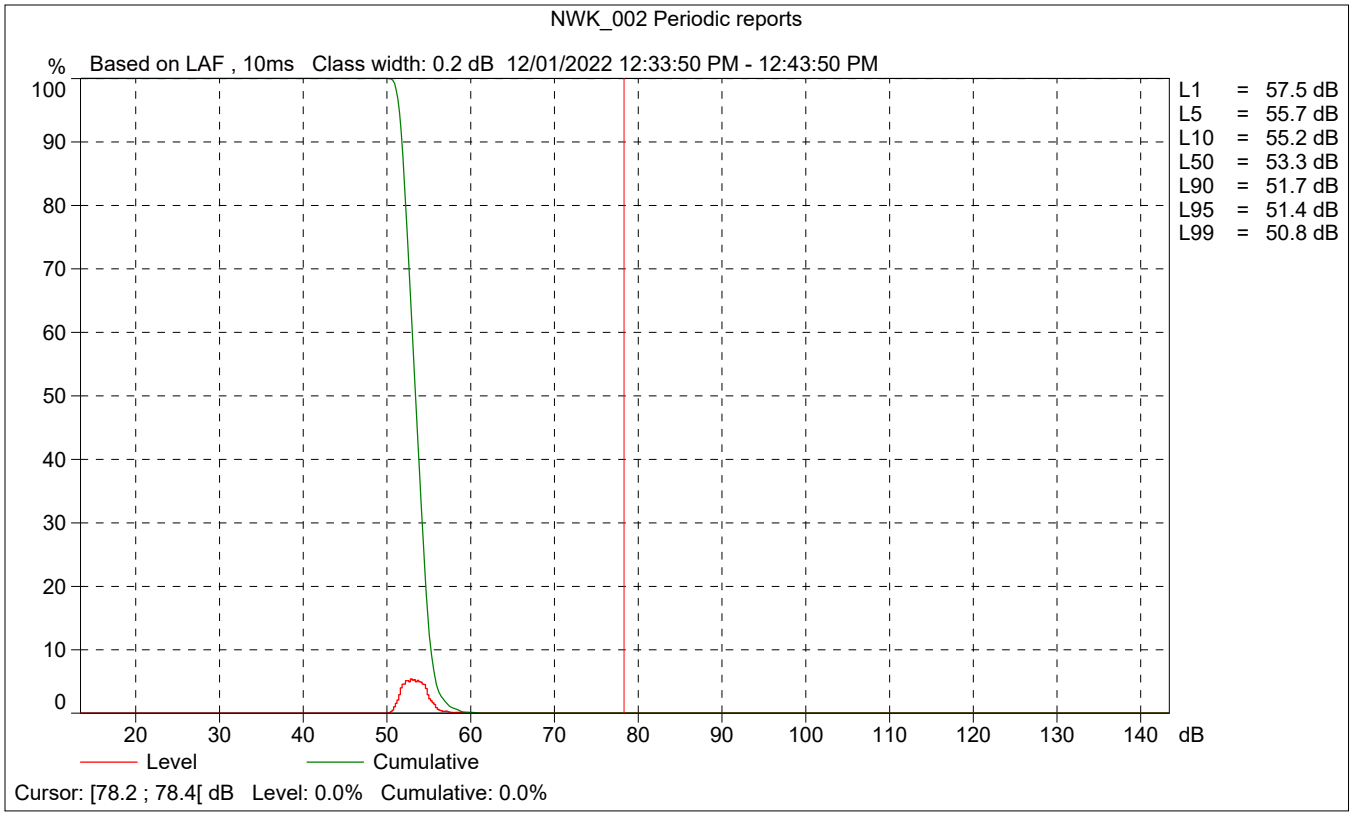

NWK_002
dB
12/01/2022 12:38:49 PM - 12:38:50 PM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=54.7 dB


NWK_002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
12:40:00 PM
12:50:00 PM
01:00:00 PM
01:10:00 PM
01:20:00 PM
01:30:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 12/01/2022 12:33:50 PM - 01:33:50 PM LAIeq=54.5 dB LAFmax=61.2 dB LCpeak=93.1 dB LAFmin=49.8 dB

NWK_002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	54.5	61.2	49.8
Time	12:33:50 PM	0:10:00				
Date	12/01/2022					



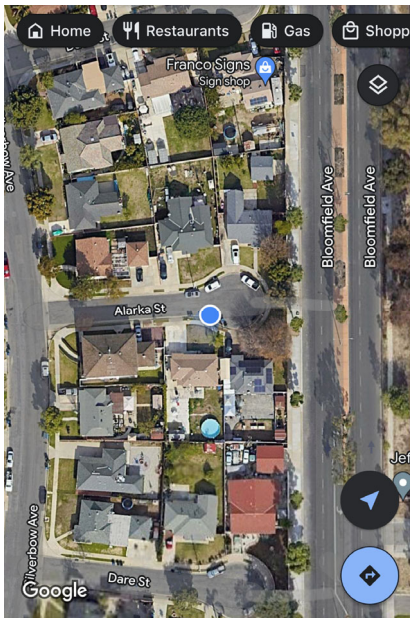

NWK_002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 12/01/2022 12:33:50 PM - 12:43:50 PM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 57.5 dB
L5 = 55.7 dB
L10 = 55.2 dB
L50 = 53.3 dB
L90 = 51.7 dB
L95 = 51.4 dB
L99 = 50.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-3			
Recorded By: Darshan Shivaiah, Tina Yuan			
Job Number: 187917			
Date: 12/1/22			
Time: 12:48 p.m.			
Location: On the sidewalk, in front of 12518 Alarka Street			
Source of Ambient Noise: Traffic noise along Bloomfield Avenue			
Source of Peak Noise: Birds Chirping			
Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
65.1	77.4	50.5	98.3

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**03/10/2022**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**03/10/2022**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**03/10/2022**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**03/10/2022**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Partly Cloudy
	Note: dBA Offset = 0.00		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	5 mph	60	30.04

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		12/01/2022 12:48:12
End Time:		12/01/2022 12:58:12
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.17

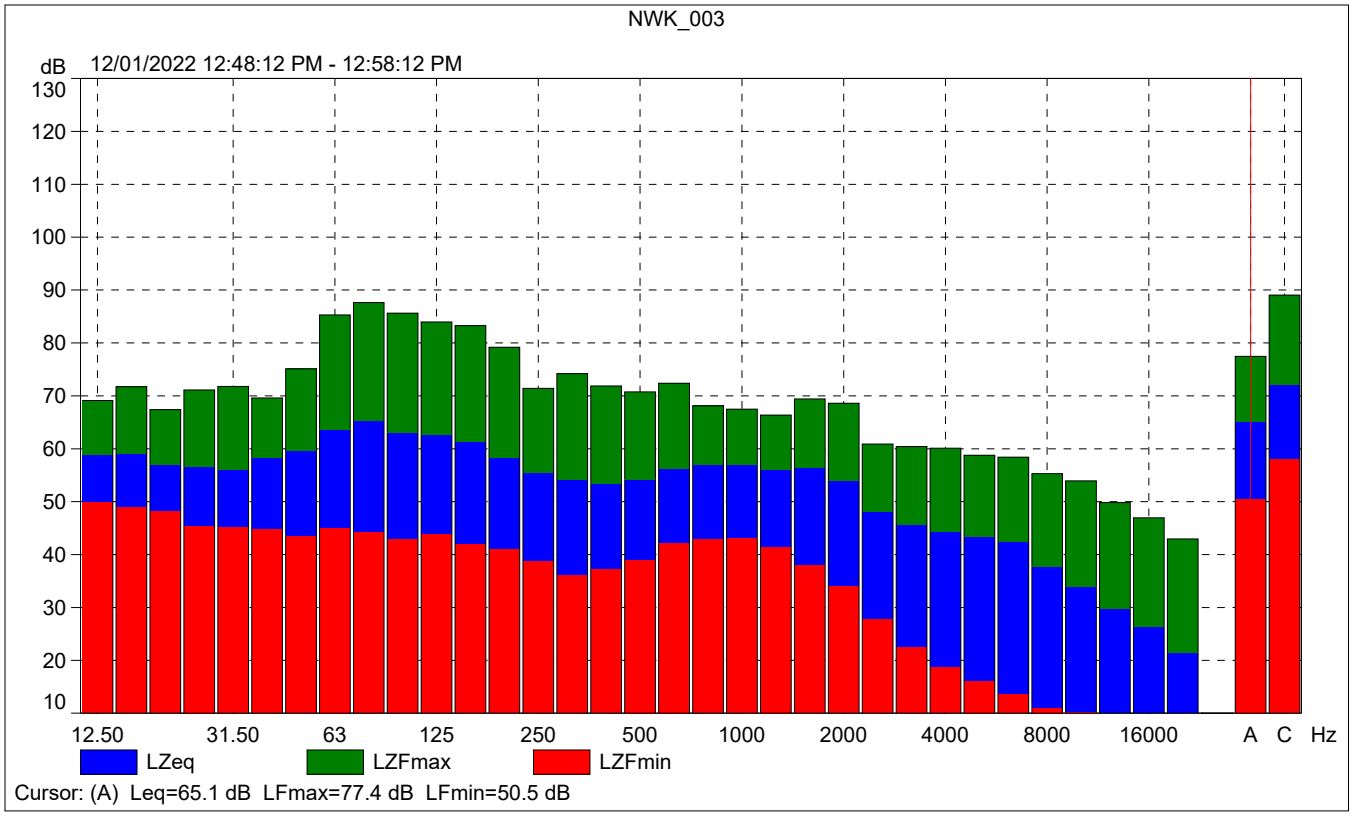
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

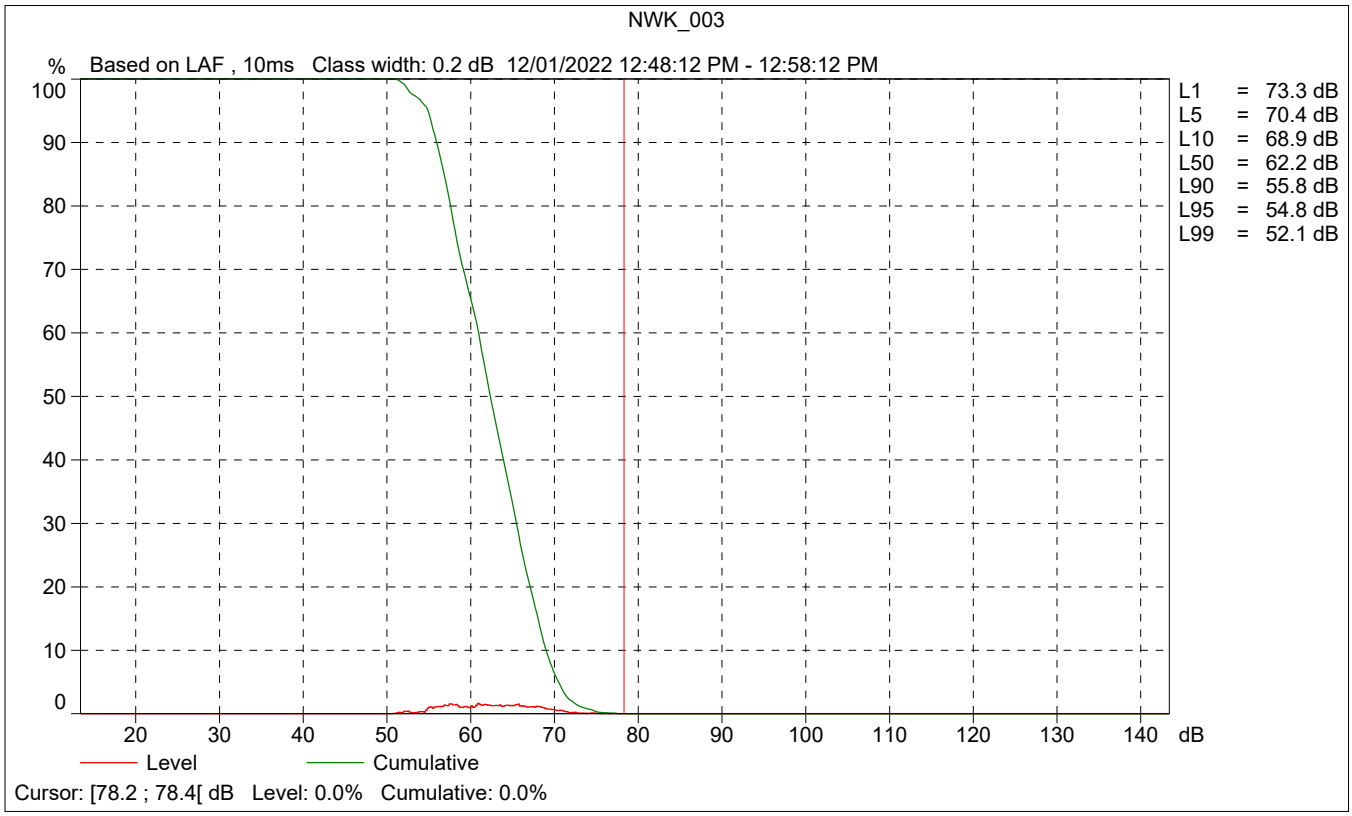
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

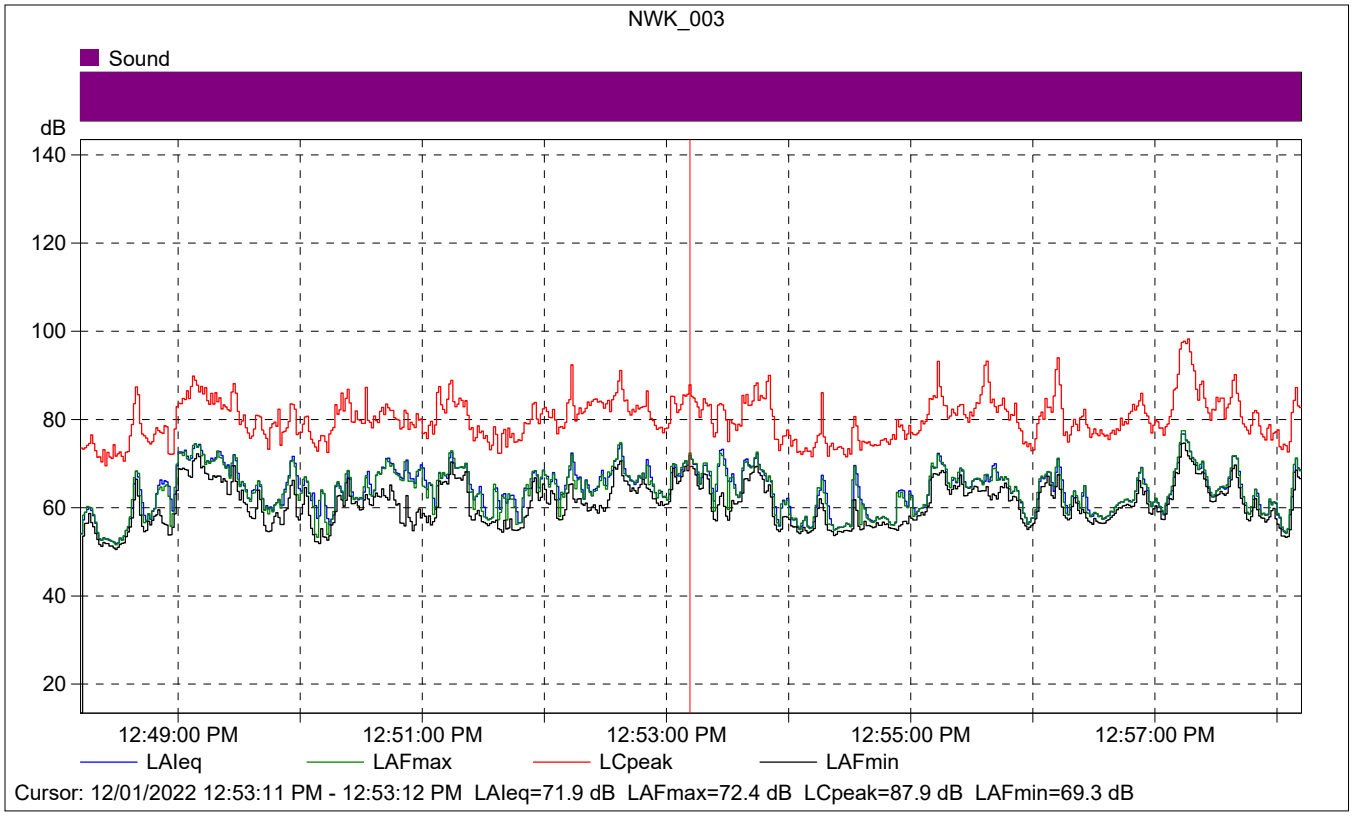
Calibration Time:		12/01/2022 08:14:00
Calibration Type:		External reference
Sensitivity:		43.3600731194019 mV/Pa

NWK_003

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	65.1	77.4	50.5
Time	12:48:12 PM	12:58:12 PM	0:10:00				
Date	12/01/2022	12/01/2022					

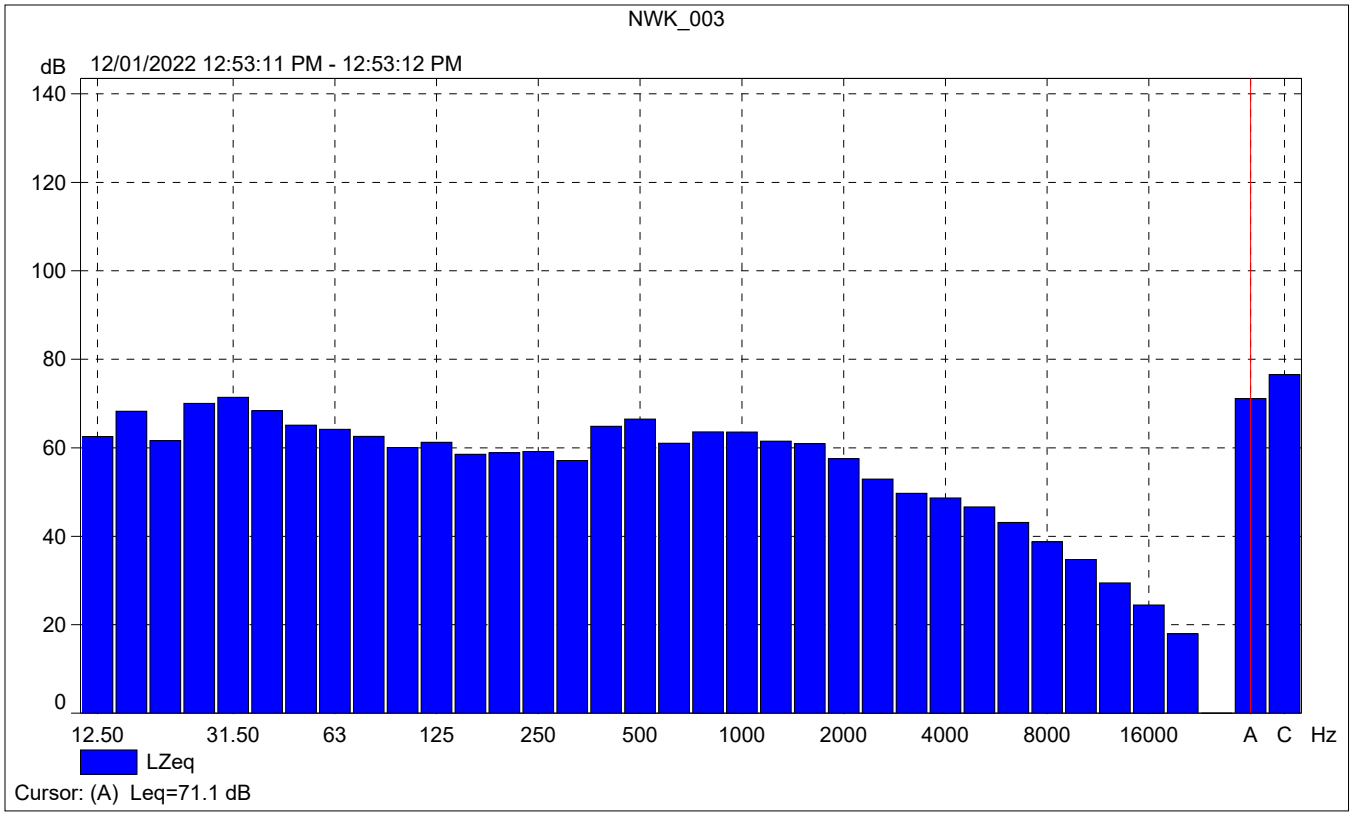

NWK_003
dB
12/01/2022 12:48:12 PM - 12:58:12 PM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=65.1 dB LFmax=77.4 dB LFmin=50.5 dB

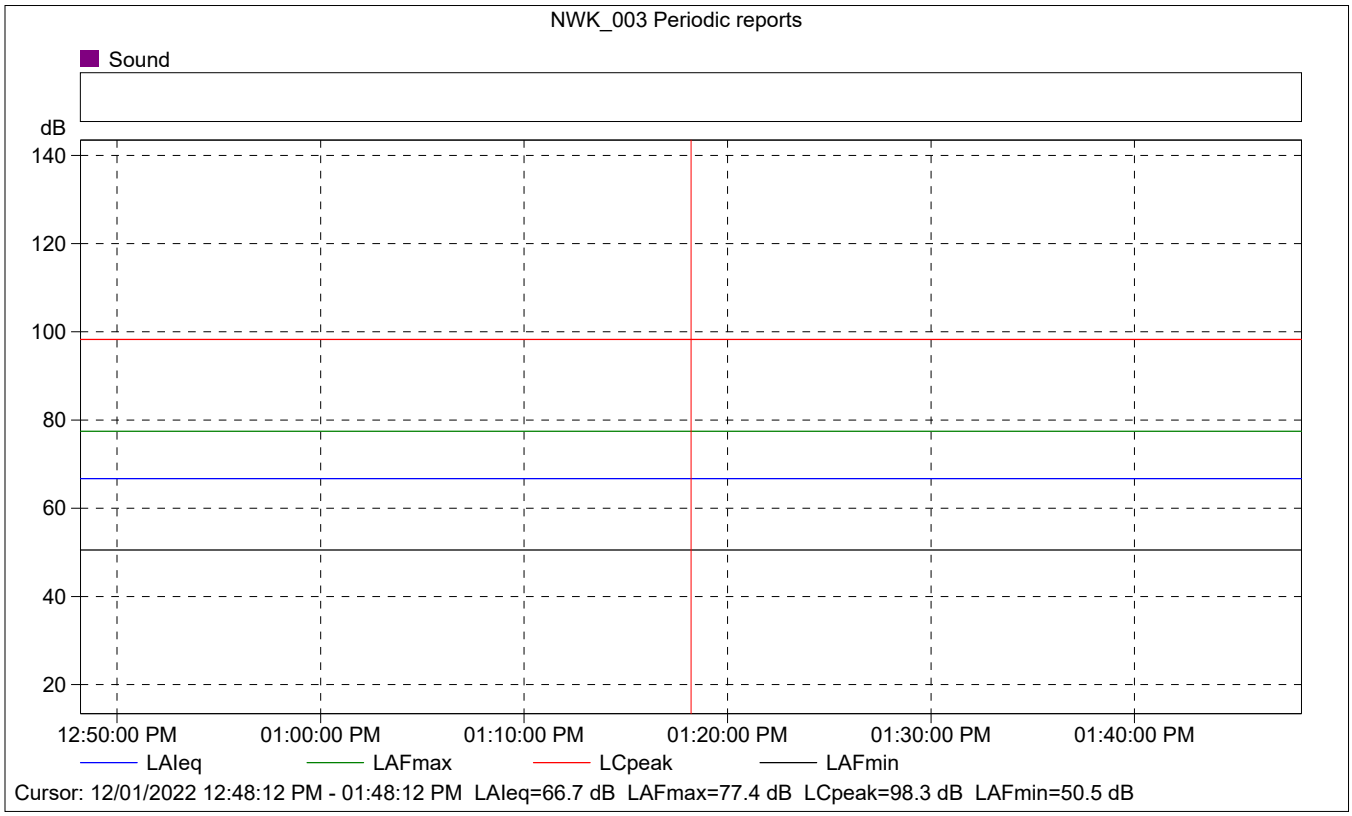

NWK_003
%
Based on LAF , 10ms Class width: 0.2 dB 12/01/2022 12:48:12 PM - 12:58:12 PM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 73.3 dB
L5 = 70.4 dB
L10 = 68.9 dB
L50 = 62.2 dB
L90 = 55.8 dB
L95 = 54.8 dB
L99 = 52.1 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NWK_003

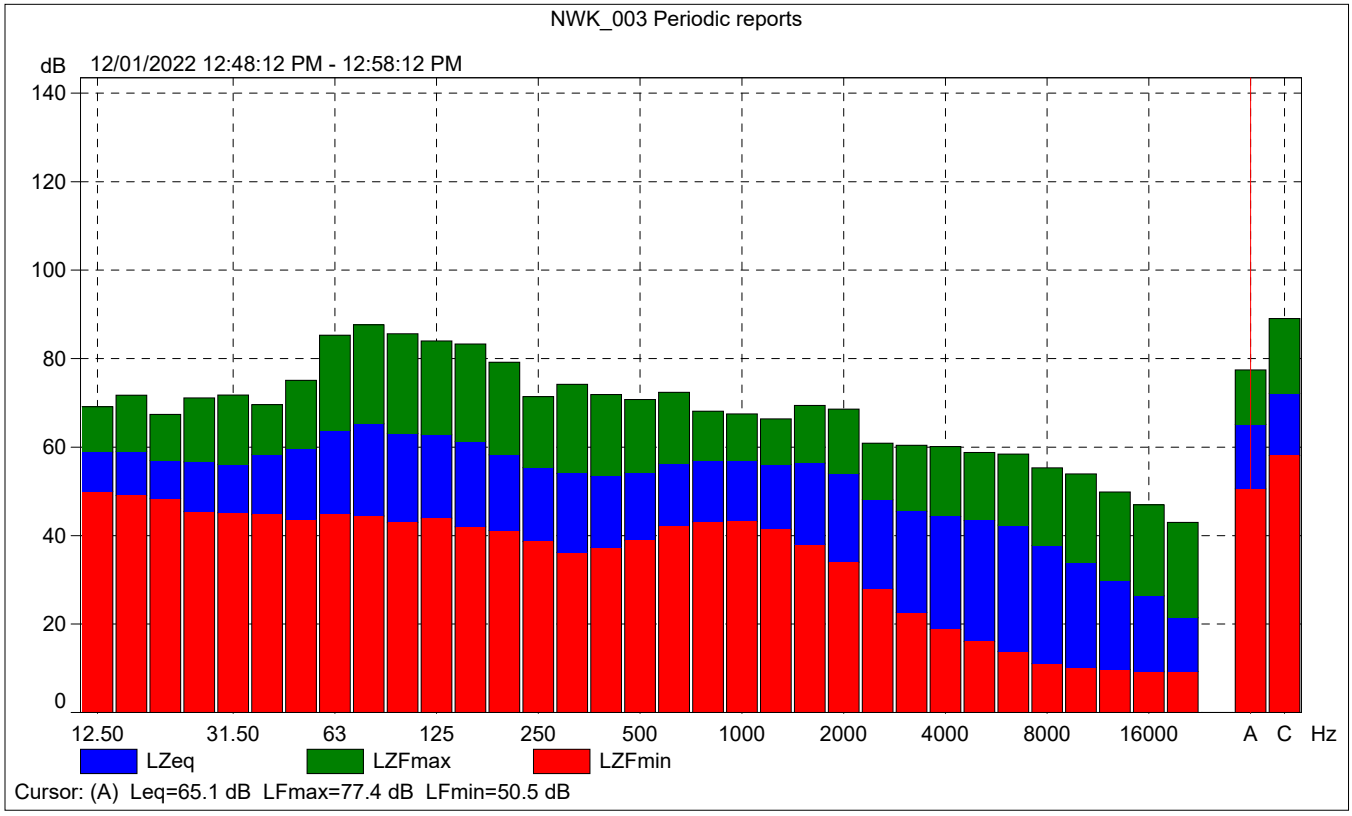
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			71.9	72.4	69.3
Time	12:53:11 PM	0:00:01			
Date	12/01/2022				

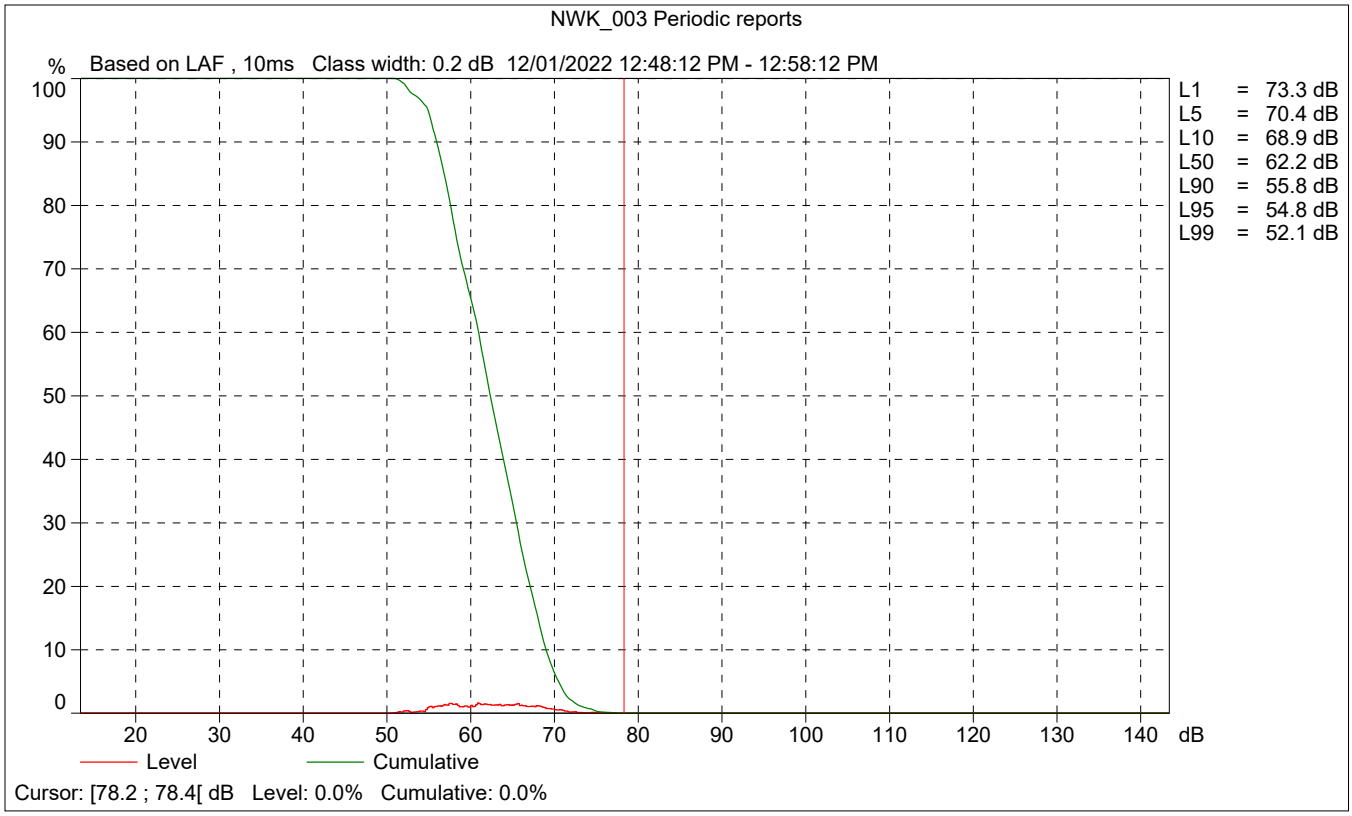

NWK_003
dB
12/01/2022 12:53:11 PM - 12:53:12 PM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=71.1 dB


NWK_003 Periodic reports
Sound
dB
140
120
100
80
60
40
20
12:50:00 PM
01:00:00 PM
01:10:00 PM
01:20:00 PM
01:30:00 PM
01:40:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 12/01/2022 12:48:12 PM - 01:48:12 PM LAIeq=66.7 dB LAFmax=77.4 dB LCpeak=98.3 dB LAFmin=50.5 dB

NWK_003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	66.7	77.4	50.5
Time	12:48:12 PM	0:10:00				
Date	12/01/2022					



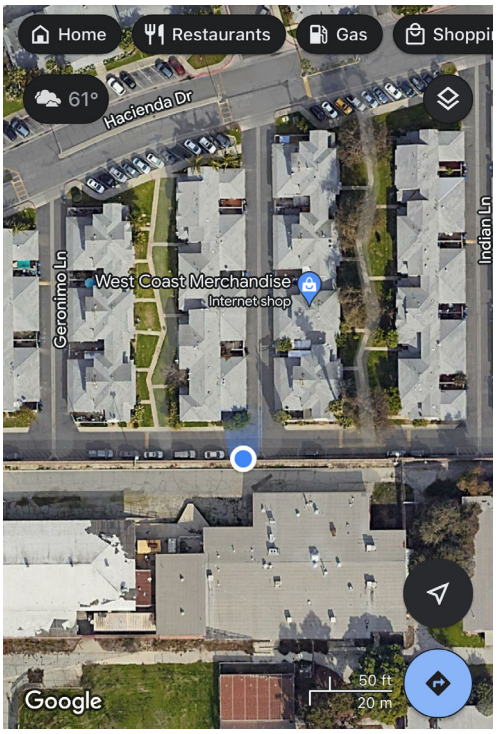

NWK_003 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 12/01/2022 12:48:12 PM - 12:58:12 PM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 73.3 dB
L5 = 70.4 dB
L10 = 68.9 dB
L50 = 62.2 dB
L90 = 55.8 dB
L95 = 54.8 dB
L99 = 52.1 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-4			
Recorded By: Darshan Shivaiah, Tina Yuan			
Job Number: 187917			
Date: 12/1/22			
Time: 1:06 p.m.			
Location: On the sidewalk, in front of 12920 Hickock Lane			
Source of Ambient Noise: Traffic noise along Bloomfield Avenue and Hickock Street			
Source of Peak Noise: Traffic noise along Hickock Street and overhead plane			
Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
54.4	69.2	48.5	86.3

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**03/10/2022**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**03/10/2022**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**03/10/2022**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**03/10/2022**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Partly Cloudy
	Note: dBA Offset = 0.00		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	5 mph	60	30.04

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		12/01/2022 13:05:52
End Time:		12/01/2022 13:15:52
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.17

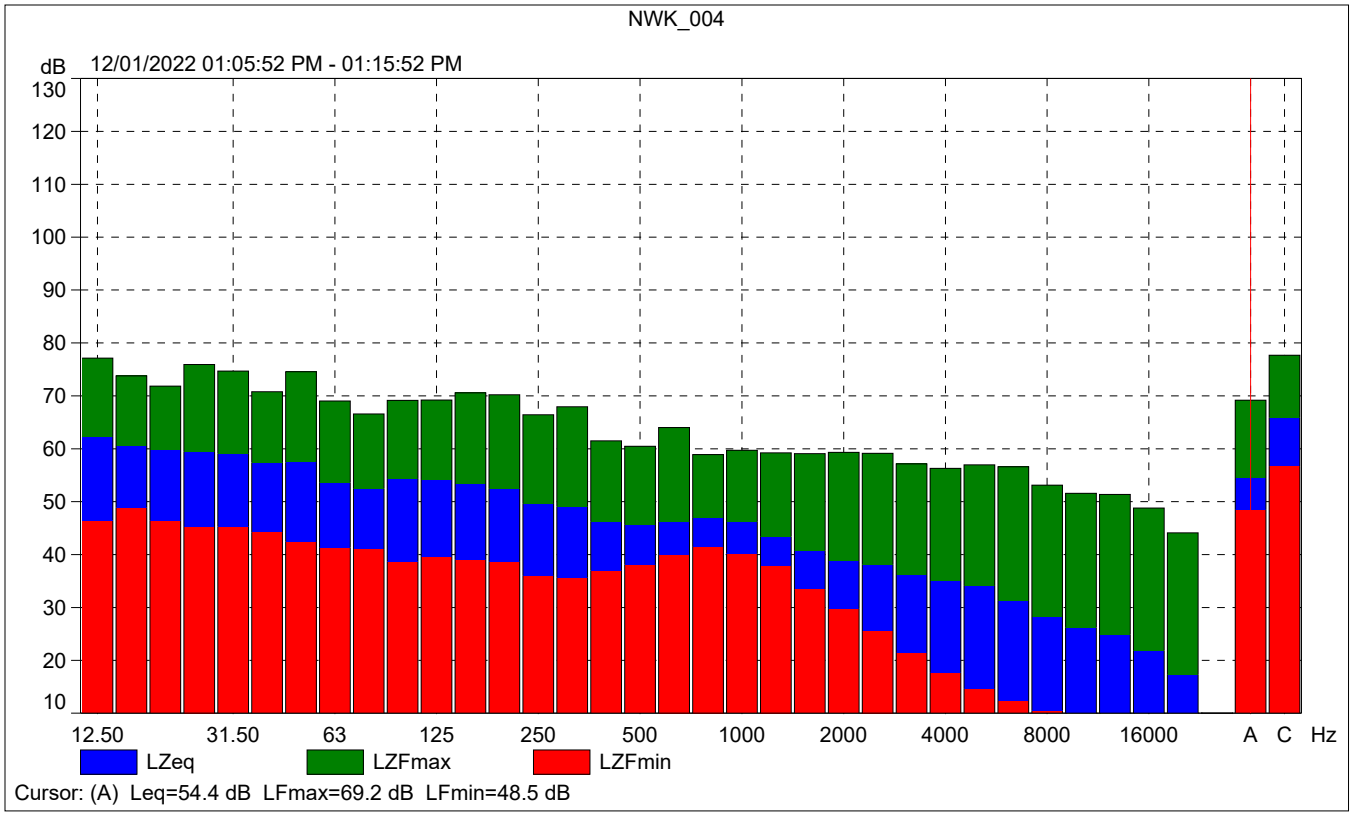
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

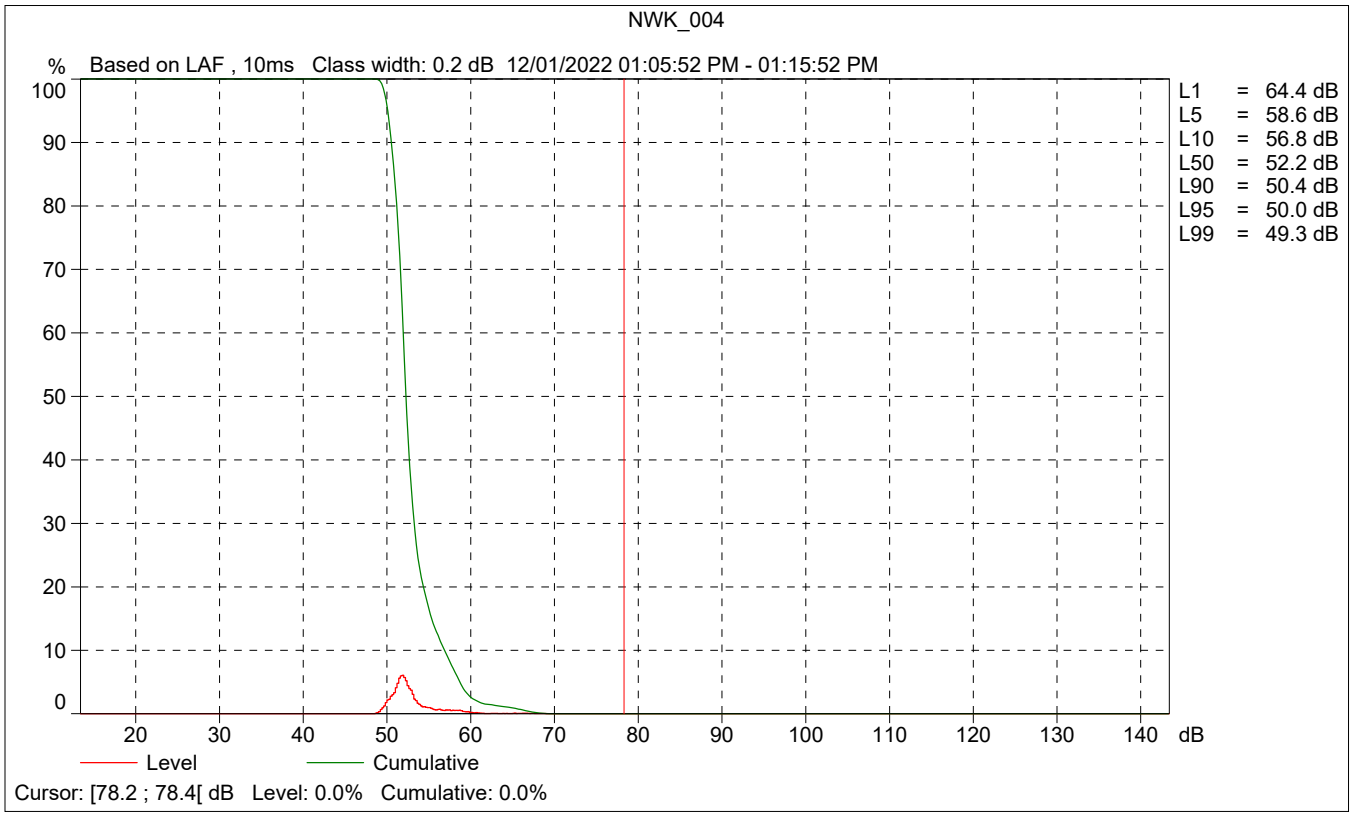
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

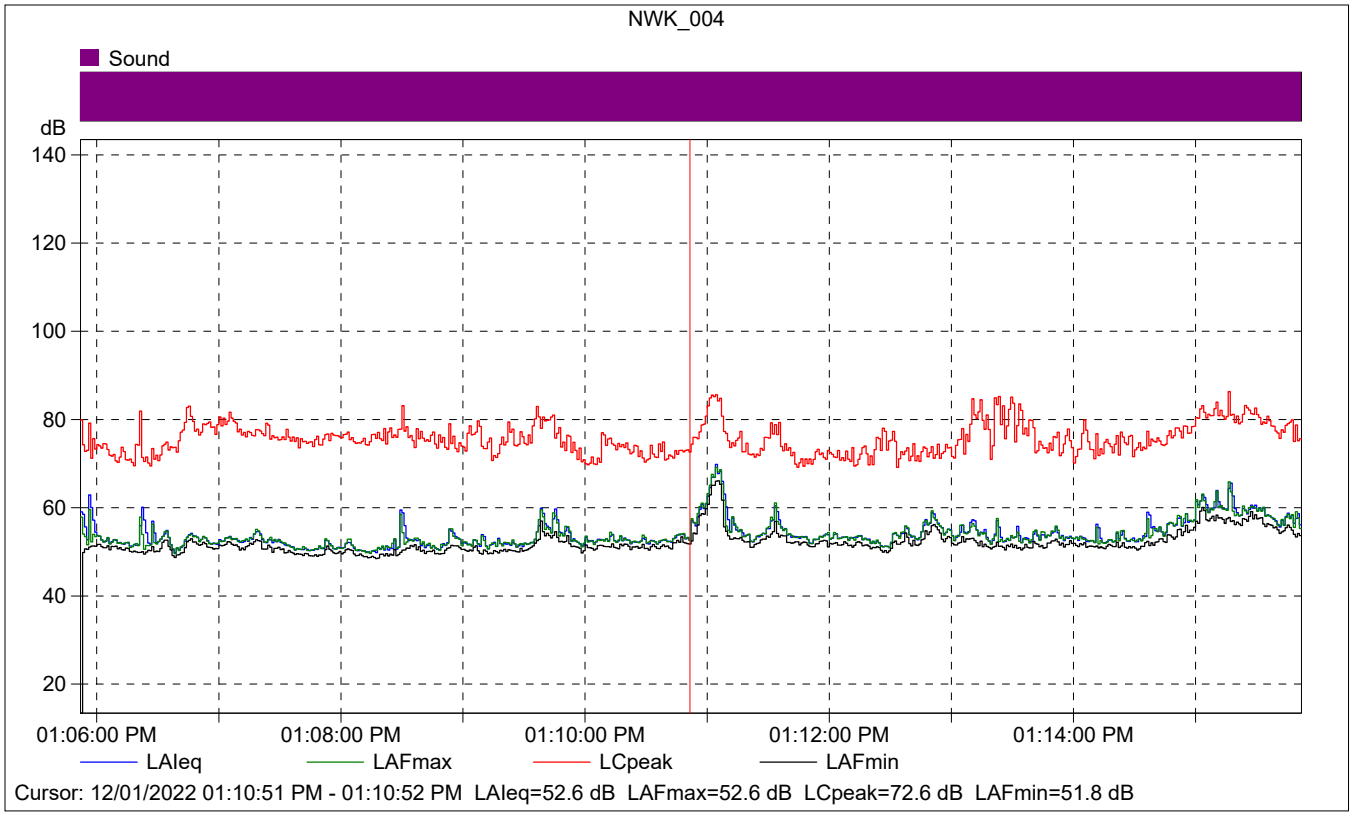
Calibration Time:		12/01/2022 08:14:00
Calibration Type:		External reference
Sensitivity:		43.3600731194019 mV/Pa

NWK_004

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	54.4	69.2	48.5
Time	01:05:52 PM	01:15:52 PM	0:10:00				
Date	12/01/2022	12/01/2022					

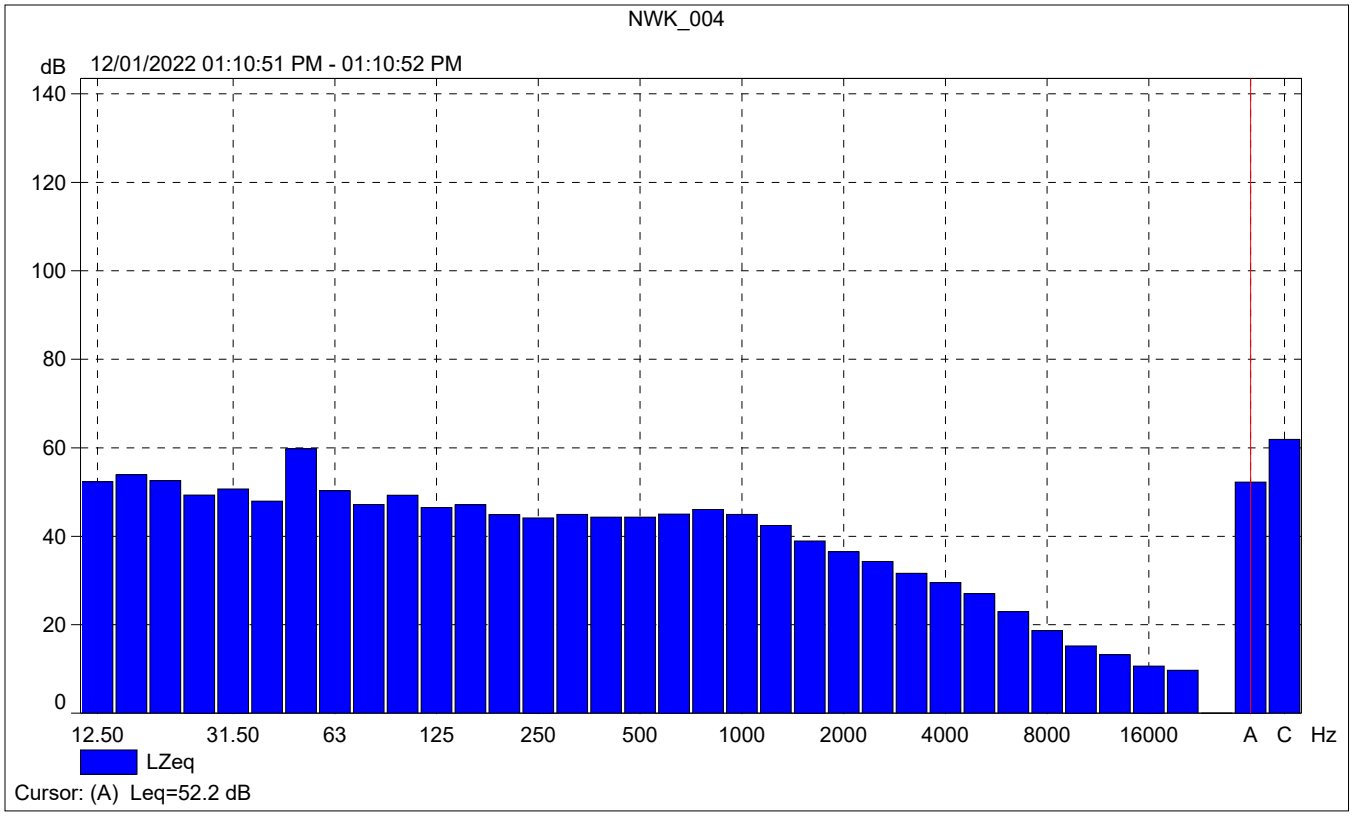

NWK_004
dB
12/01/2022 01:05:52 PM - 01:15:52 PM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=54.4 dB LFmax=69.2 dB LFmin=48.5 dB

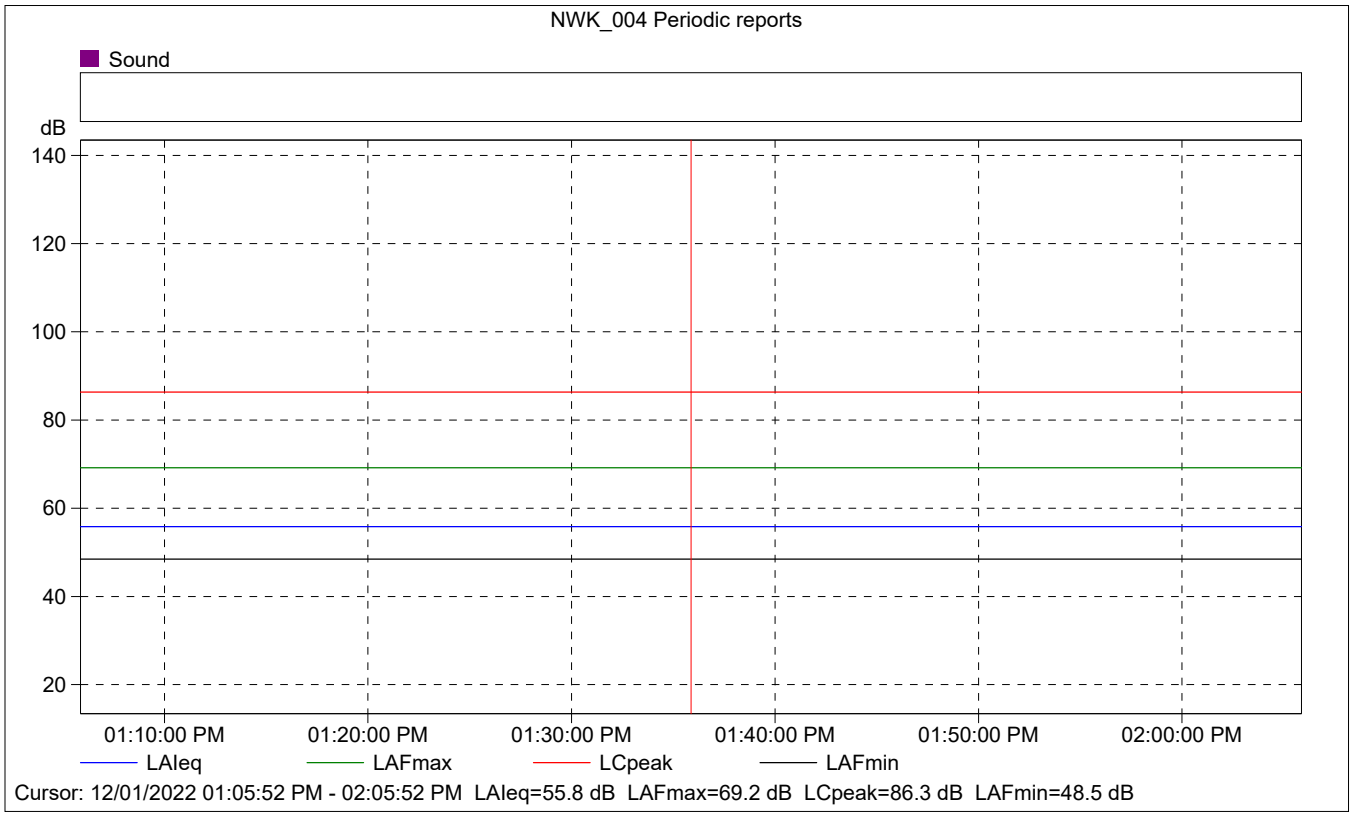

NWK_004
%
Based on LAF , 10ms Class width: 0.2 dB 12/01/2022 01:05:52 PM - 01:15:52 PM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 64.4 dB
L5 = 58.6 dB
L10 = 56.8 dB
L50 = 52.2 dB
L90 = 50.4 dB
L95 = 50.0 dB
L99 = 49.3 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NWK_004

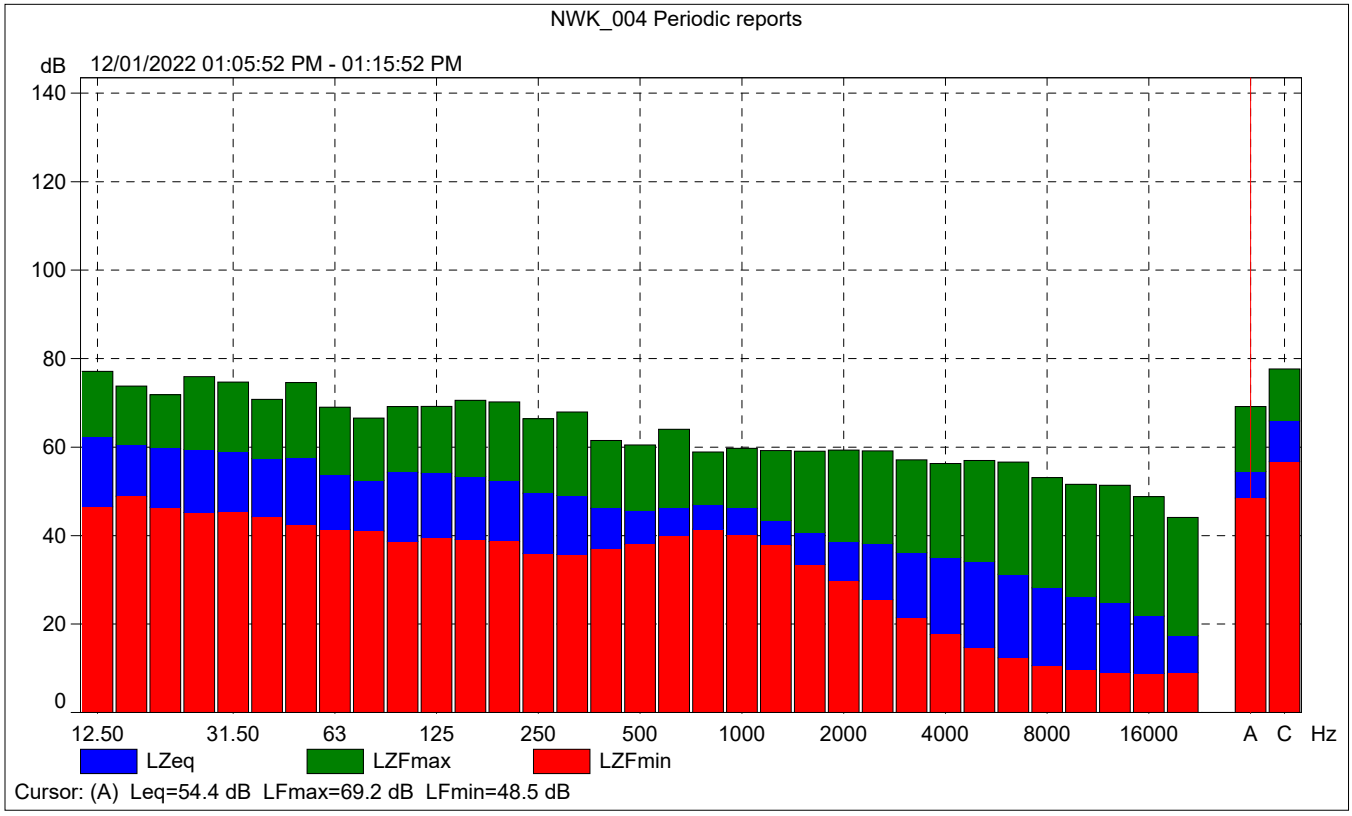
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			52.6	52.6	51.8
Time	01:10:51 PM	0:00:01			
Date	12/01/2022				

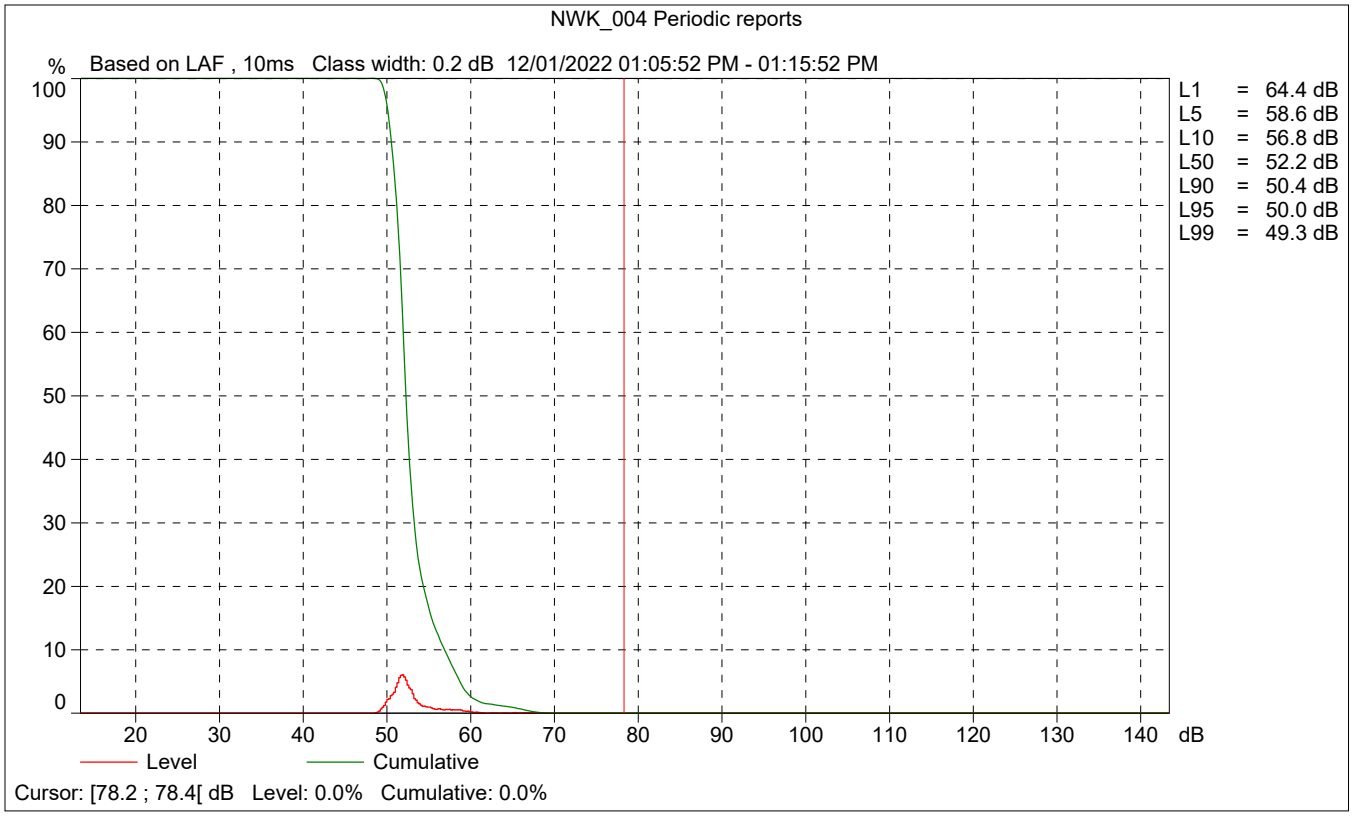

NWK_004
dB
12/01/2022 01:10:51 PM - 01:10:52 PM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=52.2 dB


NWK_004 Periodic reports
Sound
dB
140
120
100
80
60
40
20
01:10:00 PM
01:20:00 PM
01:30:00 PM
01:40:00 PM
01:50:00 PM
02:00:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 12/01/2022 01:05:52 PM - 02:05:52 PM LAIeq=55.8 dB LAFmax=69.2 dB LCpeak=86.3 dB LAFmin=48.5 dB

NWK_004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	55.8	69.2	48.5
Time	01:05:52 PM	0:10:00				
Date	12/01/2022					




NWK_004 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 12/01/2022 01:05:52 PM - 01:15:52 PM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 64.4 dB
L5 = 58.6 dB
L10 = 56.8 dB
L50 = 52.2 dB
L90 = 50.4 dB
L95 = 50.0 dB
L99 = 49.3 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 187917
Project Name: Norwalk Transit Station
Scenario: Existing Condition

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Traffic Impact Analysis
Community Noise Descriptor: L_{dn}: CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition				Design		Vehicle Mix		Distance from Centerline of Roadway					
		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour				Calc
Roadway, Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	Dist
Bloomfield Avenue													
Civic Center Drive to Foster Road	4	15	22,189	50	0.5	1.8%	0.7%	66.1	55	119	257	553	100
Bloomfield Avenue													
Foster Road to Markdale Avenue	4	15	20,691	50	0.5	1.8%	0.7%	65.8	53	114	245	528	100
Imperial Highway													
Pioneer Boulevard to Norwalk Boulevard	6	15	40,432	50	0.5	1.8%	0.7%	69.0	86	186	400	861	100
Imperial Highway													
Norwalk Boulevard to Bloomfield Avenue	6	15	37,354	50	0.5	1.8%	0.7%	68.7	82	176	379	817	100
Imperial Highway													
Bloomfield Avenue to Shoemaker Avenue	6	15	39,268	50	0.5	1.8%	0.7%	68.9	84	182	392	844	100

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.
NA = not applicable (does not exist without project)

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 187917
Project Name: Norwalk Transit Station
Scenario: Existing plus Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Traffic Impact Analysis
Community Noise Descriptor: L_{dn}: _____ CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition				Design		Vehicle Mix		Distance from Centerline of Roadway					
		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour				Calc
Roadway, Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	Dist
Bloomfield Avenue													
Civic Center Drive to Foster Road	4	15	26,662	50	0.5	1.8%	0.7%	66.9	63	135	290	625	100
Bloomfield Avenue													
Foster Road to Markdale Avenue	4	15	23,637	50	0.5	1.8%	0.7%	66.4	58	124	268	577	100
Imperial Highway													
Pioneer Boulevard to Norwalk Boulevard	6	15	42,669	50	0.5	1.8%	0.7%	69.3	89	192	414	893	100
Imperial Highway													
Norwalk Boulevard to Bloomfield Avenue	6	15	39,963	50	0.5	1.8%	0.7%	69.0	85	184	397	854	100
Imperial Highway													
Bloomfield Avenue to Shoemaker Avenue	6	15	40,014	50	0.5	1.8%	0.7%	69.0	86	184	397	855	100

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.
NA = not applicable (does not exist without project)

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 187917
Project Name: Norwalk Transit Station
Scenario: Future Year 2045

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Traffic Impact Analysis
Community Noise Descriptor: L_{dn}: CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition				Design		Vehicle Mix		Distance from Centerline of Roadway					
		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour				Calc
Roadway, Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	Dist
Bloomfield Avenue													
Civic Center Drive to Foster Road	4	15	25,380	50	0.5	1.8%	0.7%	66.7	61	130	281	605	100
Bloomfield Avenue													
Foster Road to Markdale Avenue	4	15	24,341	50	0.5	1.8%	0.7%	66.5	59	127	273	589	100
Imperial Highway													
Pioneer Boulevard to Norwalk Boulevard	6	15	47,050	50	0.5	1.8%	0.7%	69.7	95	205	442	953	100
Imperial Highway													
Norwalk Boulevard to Bloomfield Avenue	6	15	42,851	50	0.5	1.8%	0.7%	69.3	90	193	415	895	100
Imperial Highway													
Bloomfield Avenue to Shoemaker Avenue	6	15	44,834	50	0.5	1.8%	0.7%	69.5	92	199	428	922	100

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.
NA = not applicable (does not exist without project)

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 187917
Project Name: Norwalk Transit Station
Scenario: Long Range 2045 plus Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Traffic Impact Analysis
Community Noise Descriptor: L_{dn}: CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition				Design		Vehicle Mix		Distance from Centerline of Roadway					
		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour				Calc
Roadway, Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	Dist
Bloomfield Avenue													
Civic Center Drive to Foster Road	4	15	29,800	50	0.5	1.8%	0.7%	67.4	67	145	313	674	100
Bloomfield Avenue													
Foster Road to Markdale Avenue	4	15	27,287	50	0.5	1.8%	0.7%	67.0	64	137	295	635	100
Imperial Highway													
Pioneer Boulevard to Norwalk Boulevard	6	15	49,260	50	0.5	1.8%	0.7%	69.9	98	212	456	982	100
Imperial Highway													
Norwalk Boulevard to Bloomfield Avenue	6	15	45,429	50	0.5	1.8%	0.7%	69.5	93	200	432	931	100
Imperial Highway													
Bloomfield Avenue to Shoemaker Avenue	6	15	45,571	50	0.5	1.8%	0.7%	69.5	93	201	433	933	100

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.
NA = not applicable (does not exist without project)