# APPENDIX G
# NOISE MODELING

| | |
|---|---|
| **Site Number:** NM-1 | |
| **Recorded By:** Darshan Shivaiah, Tina Yuan | |
| **Job Number:** TTM 38346 | |
| **Date:** 10/19/2022 | |
| **Time:** 09:17 a.m. | |
| **Location:** On the SE corner of Rouse Road and Galloping Way. | |
| **Source of Ambient Noise:** Traffic noise along Rouse Road | |
| **Source of Peak Noise:** Trucks passing by | |

| Noise Data | | | |
|---|---|---|---|
| **Leq (dB)** | **Lmax(dB)** | **Lmin (dB)** | **Peak (dB)** |
| 56.8 | 71.2 | 42.4 | 90.2 |

| 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:** Clear Sunny |
| | **Note:** dBA Offset = -0.03 | | **Sensor Height (ft):** 5 ft |
| | **Wind Ave Speed (mph / m/s)** | **Temperature (degrees Fahrenheit)** | **Barometer Pressure (inches)** |
| | 1.4 mph | 69.2 | 30.15 |

## Photo of Measurement Location

## 2250

| | | |
|---|---|---|
| Instrument: | | 2250 |
| Application: | | BZ7225 Version 4.7.6 |
| Start Time: | | 10/19/2022 09:07:49 |
| End Time: | | 10/19/2022 09:17:49 |
| Elapsed Time: | | 00:10:00 |
| Bandwidth: | | 1/3-octave |
| Max Input Level: | | 142.18 |

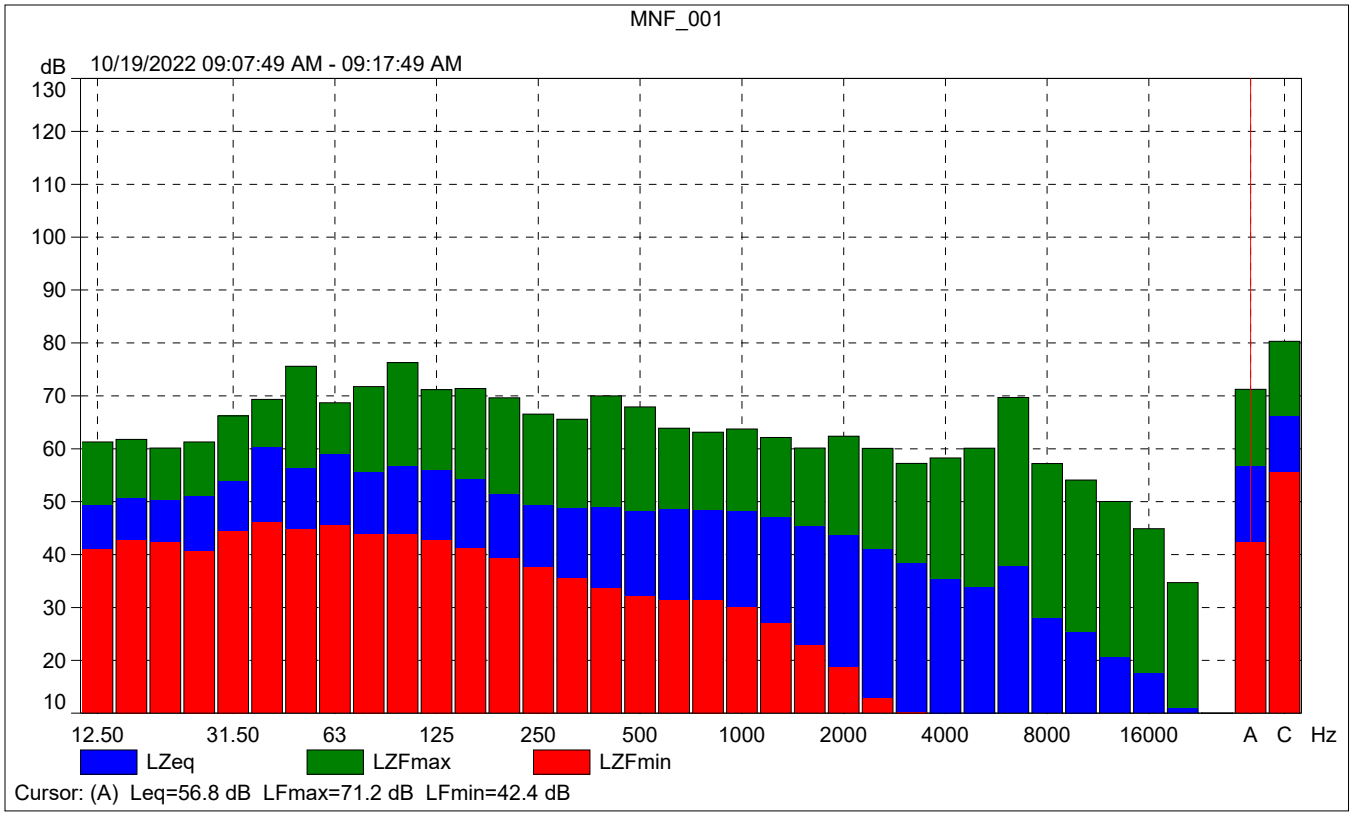
| | Time | Frequency |
|---|---|---|
| Broadband (excl. Peak): | FSI | AC |
| Broadband Peak: | | C |
| Spectrum: | FS | Z |

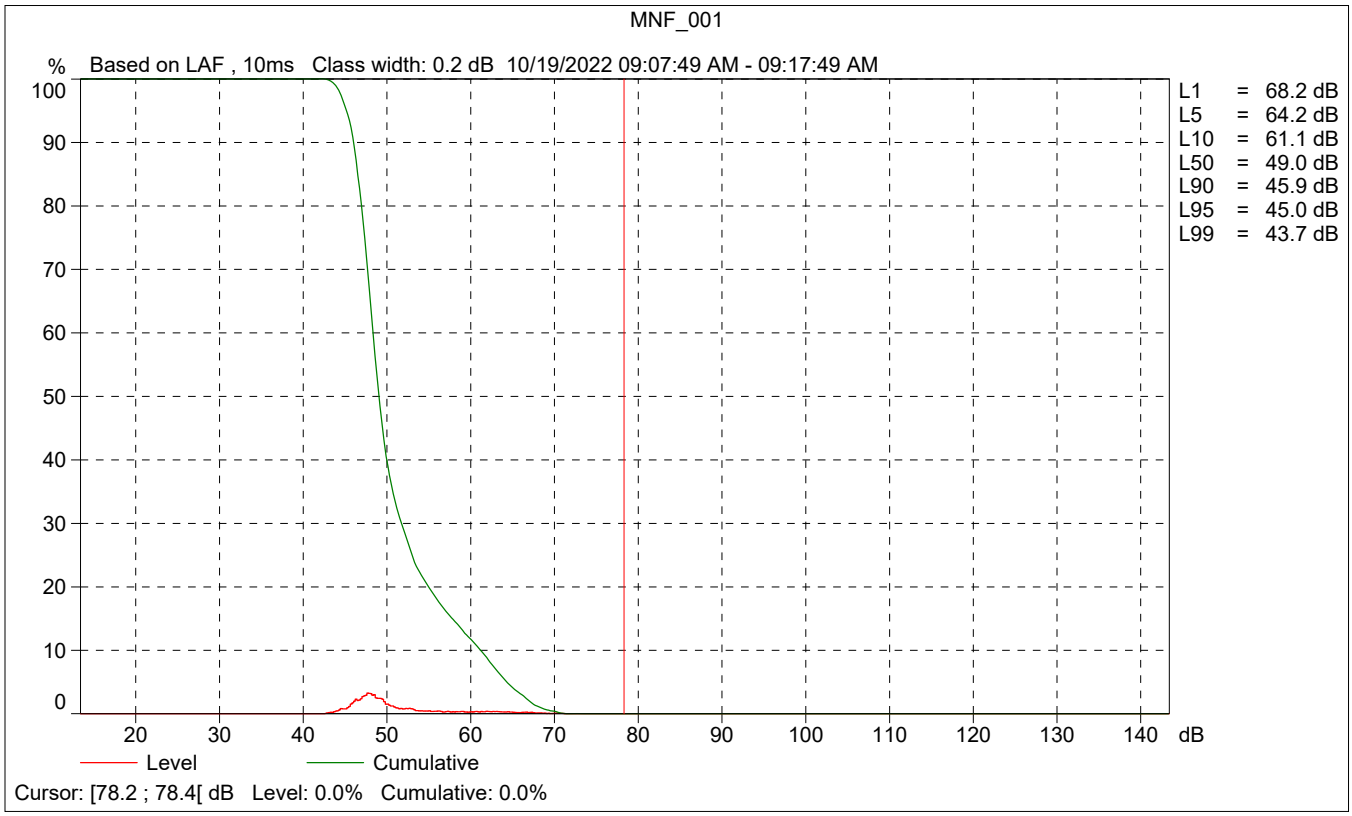
| | | |
|---|---|---|
| Instrument Serial Number: | | 3011133 |
| Microphone Serial Number: | | 3086765 |
| Input: | | Top Socket |
| Windscreen Correction: | | UA-1650 |
| Sound Field Correction: | | Free-field |

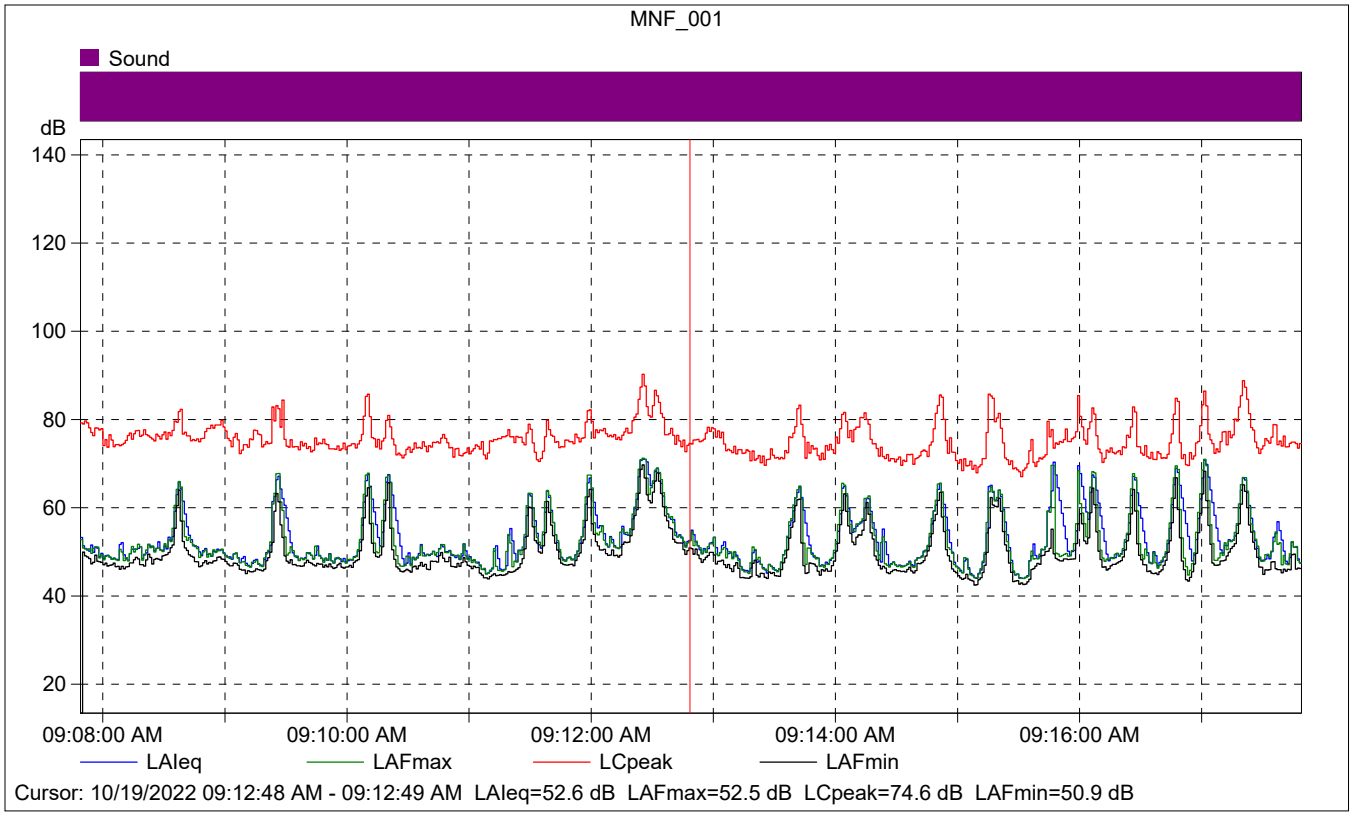
| | | |
|---|---|---|
| Calibration Time: | | 10/19/2022 07:11:45 |
| Calibration Type: | | External reference |
| Sensitivity: | | 43.3151684701443 mV/Pa |

## MNF_001

| | Start time | End time | Elapsed time | Overload [%] | LAeq [dB] | LAFmax [dB] | LAFmin [dB] |
|---|---|---|---|---|---|---|---|
| Value | | | | 0.00 | 56.8 | 71.2 | 42.4 |
| Time | 09:07:49 AM | 09:17:49 AM | 0:10:00 | | | | |
| Date | 10/19/2022 | 10/19/2022 | | | | | |

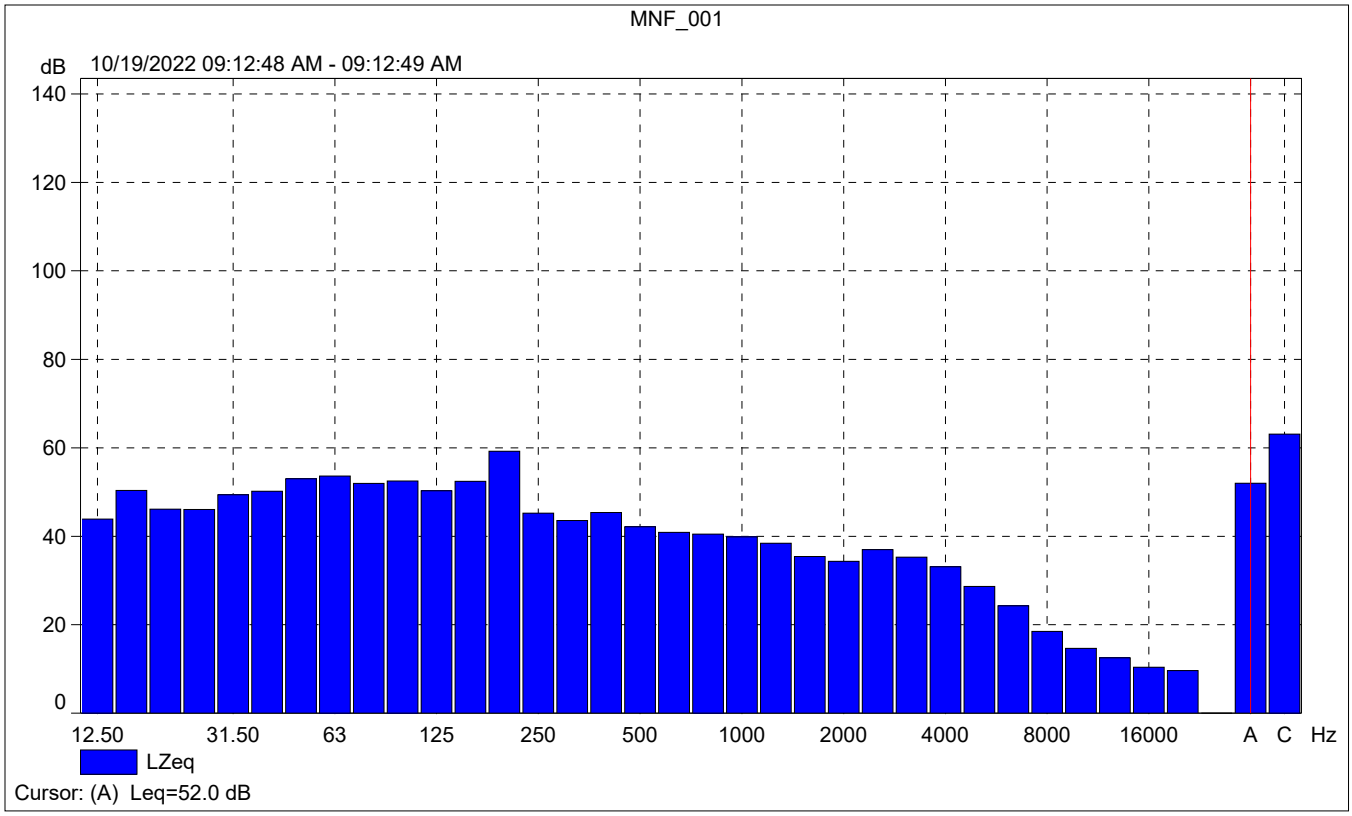

MNF_001
dB
10/19/2022 09:07:49 AM - 09:17:49 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=56.8 dB LFmax=71.2 dB LFmin=42.4 dB

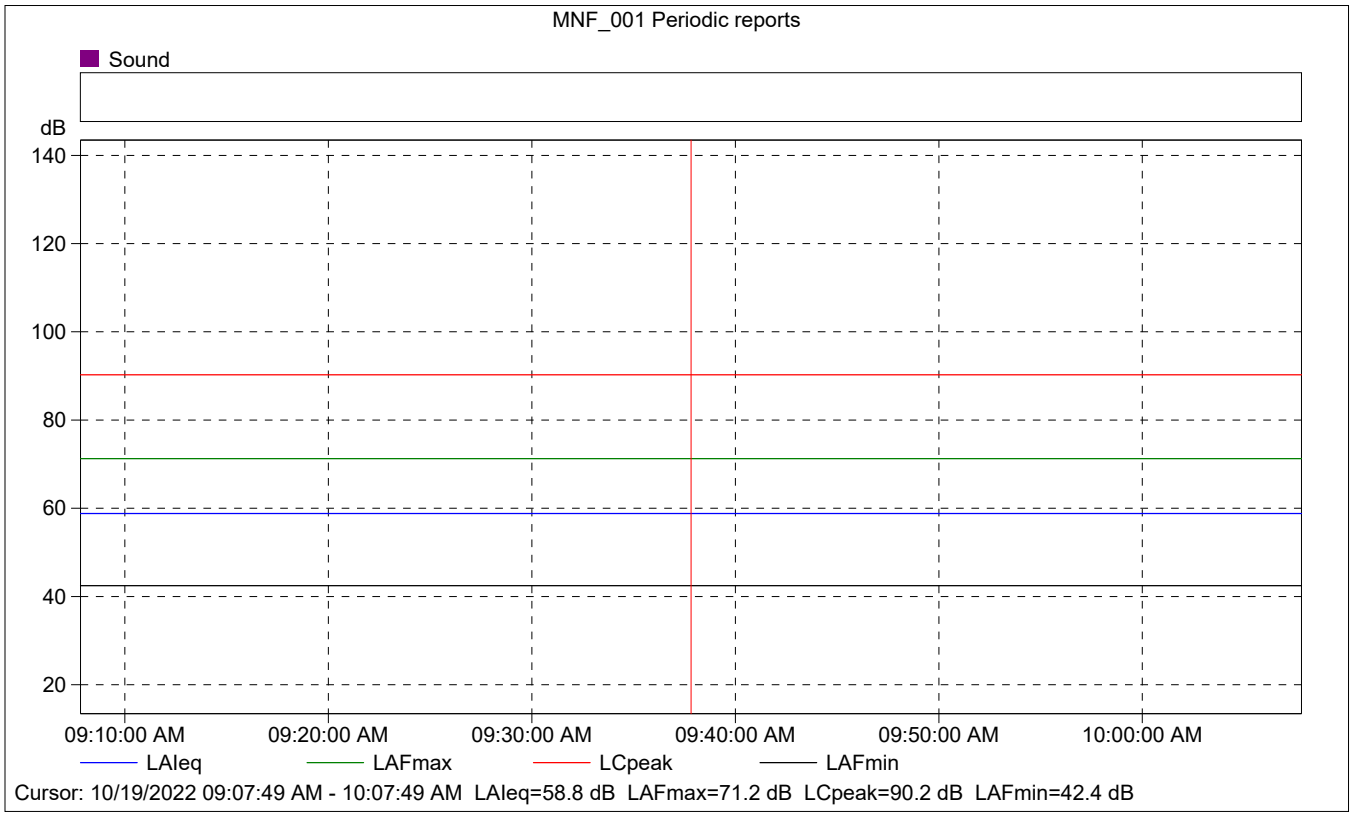

MNF_001
%
Based on LAF , 10ms Class width: 0.2 dB 10/19/2022 09:07:49 AM - 09:17:49 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 68.2 dB
L5 = 64.2 dB
L10 = 61.1 dB
L50 = 49.0 dB
L90 = 45.9 dB
L95 = 45.0 dB
L99 = 43.7 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[ dB Level: 0.0% Cumulative: 0.0%




## MNF_001

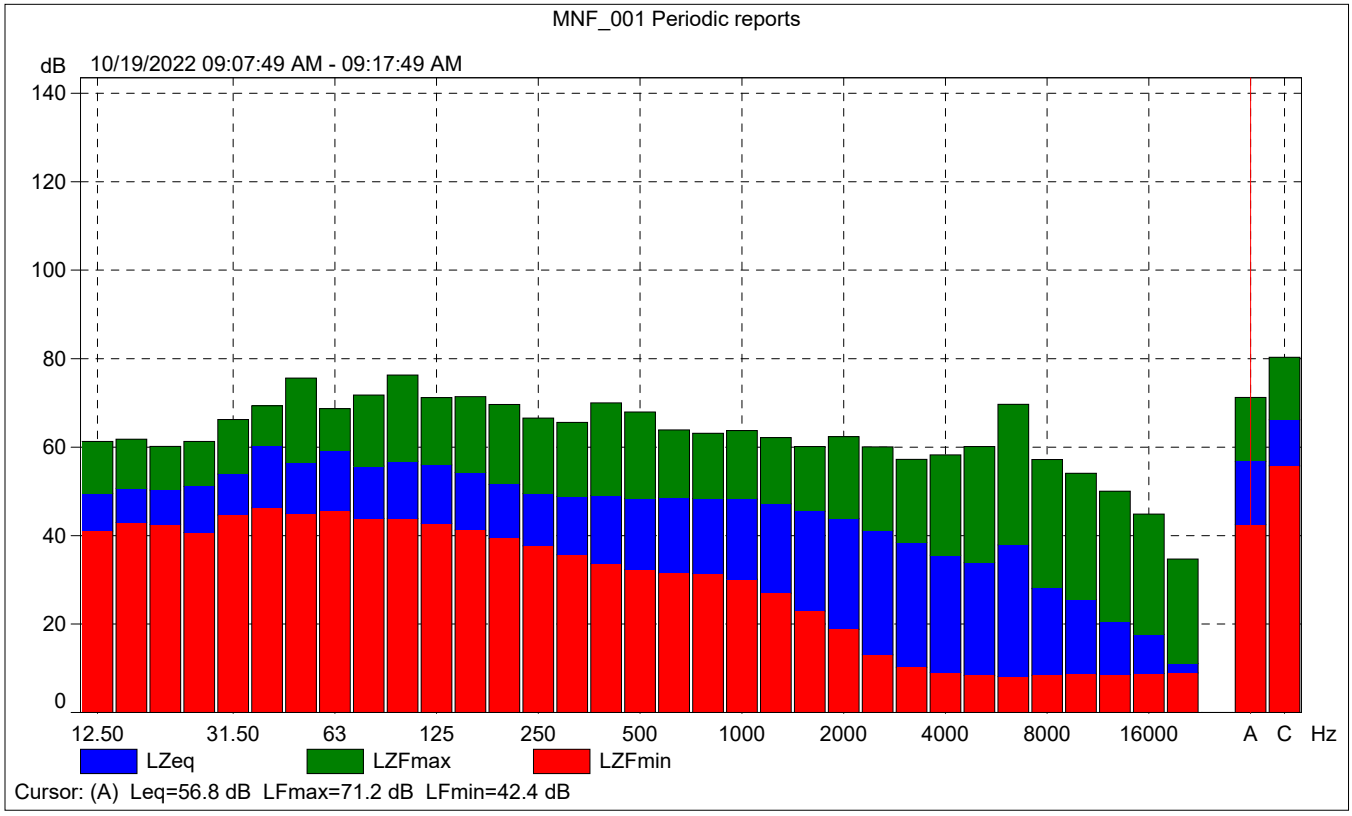
| | Start time | Elapsed time | LAIeq [dB] | LAFmax [dB] | LAFmin [dB] |
|---|---|---|---|---|---|
| Value | | | 52.6 | 52.5 | 50.9 |
| Time | 09:12:48 AM | 0:00:01 | | | |
| Date | 10/19/2022 | | | | |

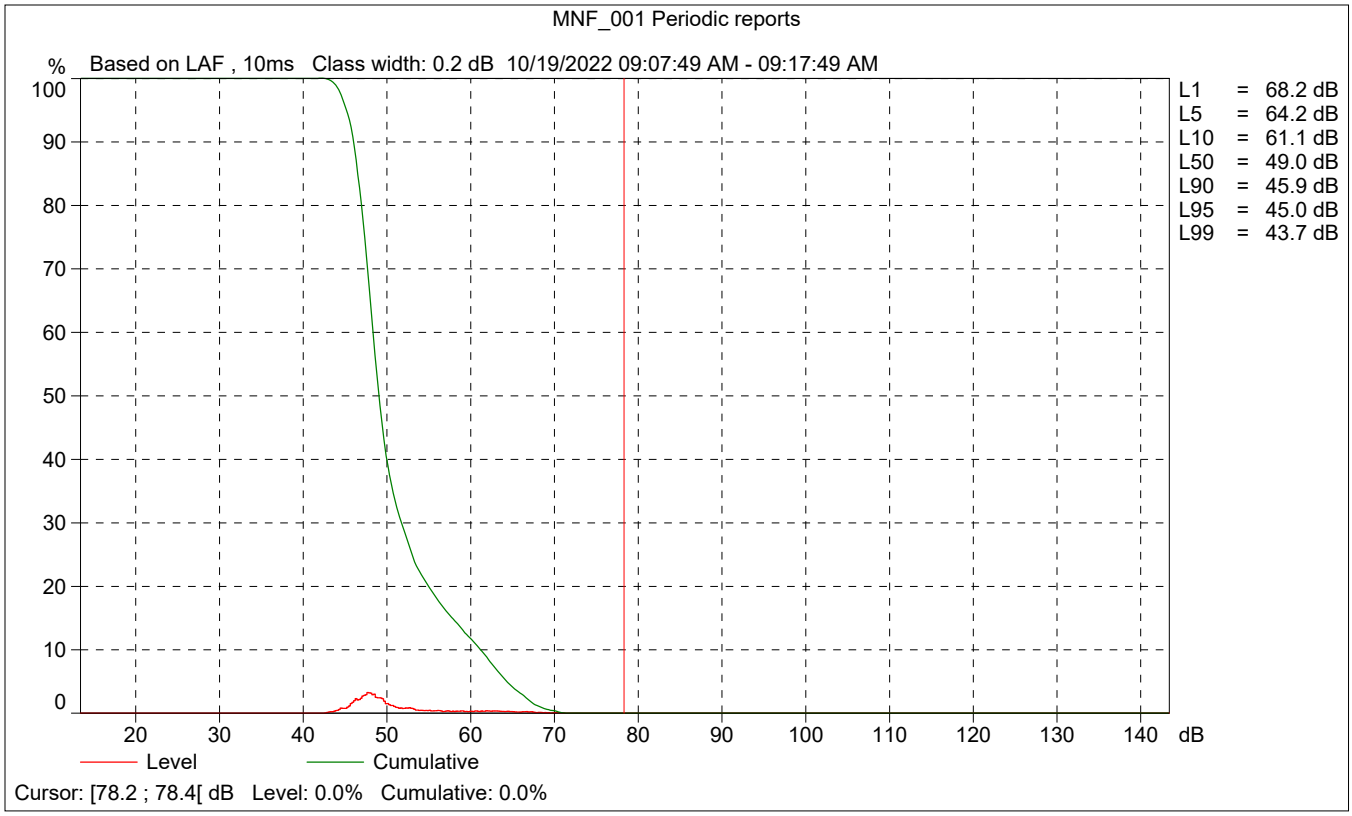

MNF_001
dB
10/19/2022 09:12:48 AM - 09:12:49 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=52.0 dB


MNF_001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
09:10:00 AM
09:20:00 AM
09:30:00 AM
09:40:00 AM
09:50:00 AM
10:00:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 10/19/2022 09:07:49 AM - 10:07:49 AM LAIeq=58.8 dB LAFmax=71.2 dB LCpeak=90.2 dB LAFmin=42.4 dB

# MNF_001 Periodic reports

| | Start time | Elapsed time | Overload [%] | LAIeq [dB] | LAFmax [dB] | LAFmin [dB] |
|---|---|---|---|---|---|---|
| Value | | | 0.00 | 58.8 | 71.2 | 42.4 |
| Time | 09:07:49 AM | 0:10:00 | | | | |
| Date | 10/19/2022 | | | | | |




MNF_001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 10/19/2022 09:07:49 AM - 09:17:49 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
Level
Cumulative
L1 = 68.2 dB
L5 = 64.2 dB
L10 = 61.1 dB
L50 = 49.0 dB
L90 = 45.9 dB
L95 = 45.0 dB
L99 = 43.7 dB
Cursor: [78.2 ; 78.4[ dB Level: 0.0% Cumulative: 0.0%

| | |
|---|---|
| **Site Number:** NM-2 | |
| **Recorded By:** Darshan Shivaiah, Tina Yuan | |
| **Job Number:** TTM 38346 | |
| **Date:** 10/19/2022 | |
| **Time:** 09:35 a.m. | |
| **Location:** On the sidewalks along the NE corner of Menifee Road and Turtle Point Drive | |
| **Source of Ambient Noise:** Traffic noise along Menifee Road | |
| **Source of Peak Noise:** Trucks passing by | |

| Noise Data | | | |
|---|---|---|---|
| **Leq (dB)** | **Lmax(dB)** | **Lmin (dB)** | **Peak (dB)** |
| 68.5 | 79.6 | 45.0 | 92.2 |

| 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:** Clear Sunny |
| | **Note:** dBA Offset = -0.03 | | **Sensor Height (ft):** 5 ft |
| | **Wind Ave Speed (mph / m/s)** | **Temperature (degrees Fahrenheit)** | **Barometer Pressure (inches)** |
| | 1.4 mph | 69.2 | 30.15 |

## Photo of Measurement Location

## 2250

| | | |
|---|---|---|
| Instrument: | | 2250 |
| Application: | | BZ7225 Version 4.7.6 |
| Start Time: | | 10/19/2022 09:25:21 |
| End Time: | | 10/19/2022 09:35:21 |
| Elapsed Time: | | 00:10:00 |
| Bandwidth: | | 1/3-octave |
| Max Input Level: | | 142.18 |

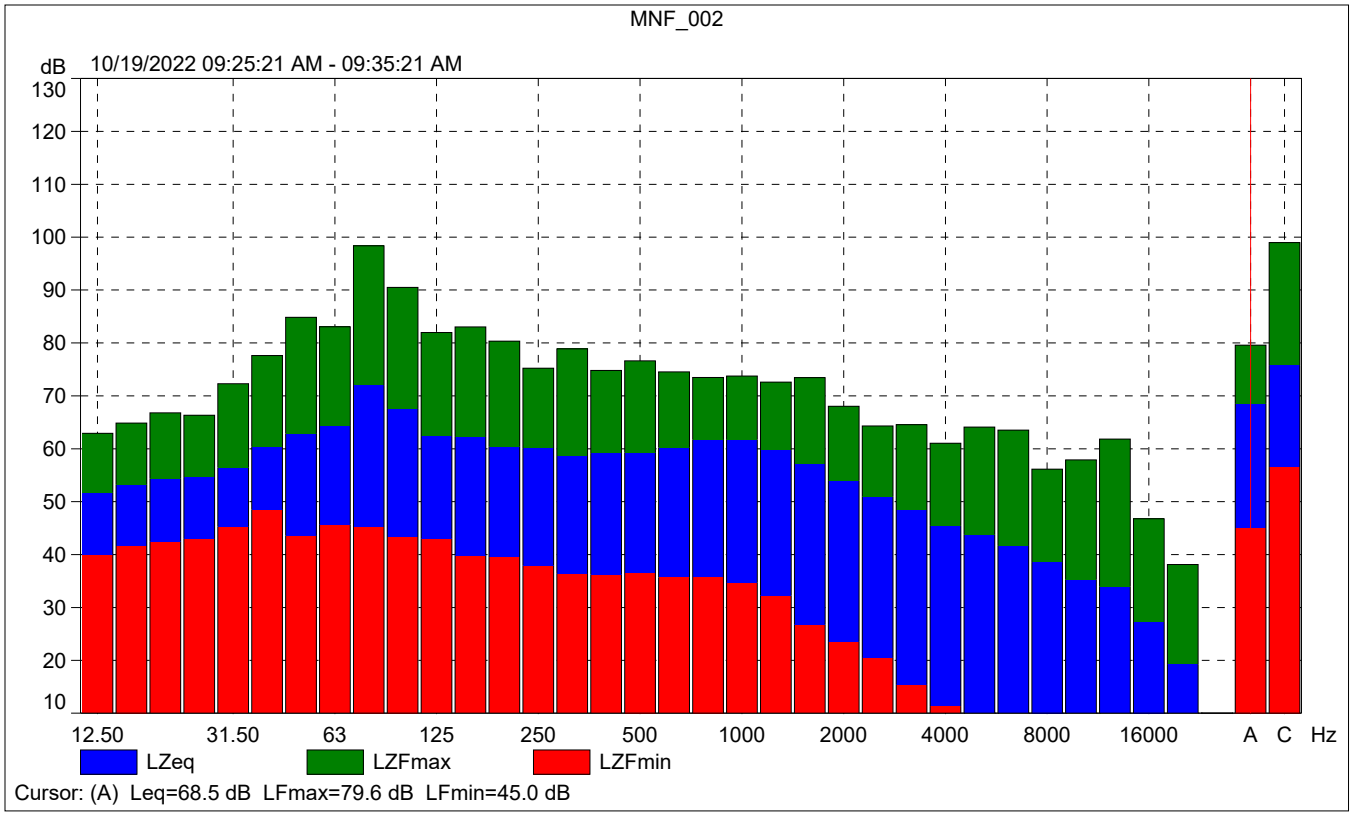
| | Time | Frequency |
|---|---|---|
| Broadband (excl. Peak): | FSI | AC |
| Broadband Peak: | | C |
| Spectrum: | FS | Z |

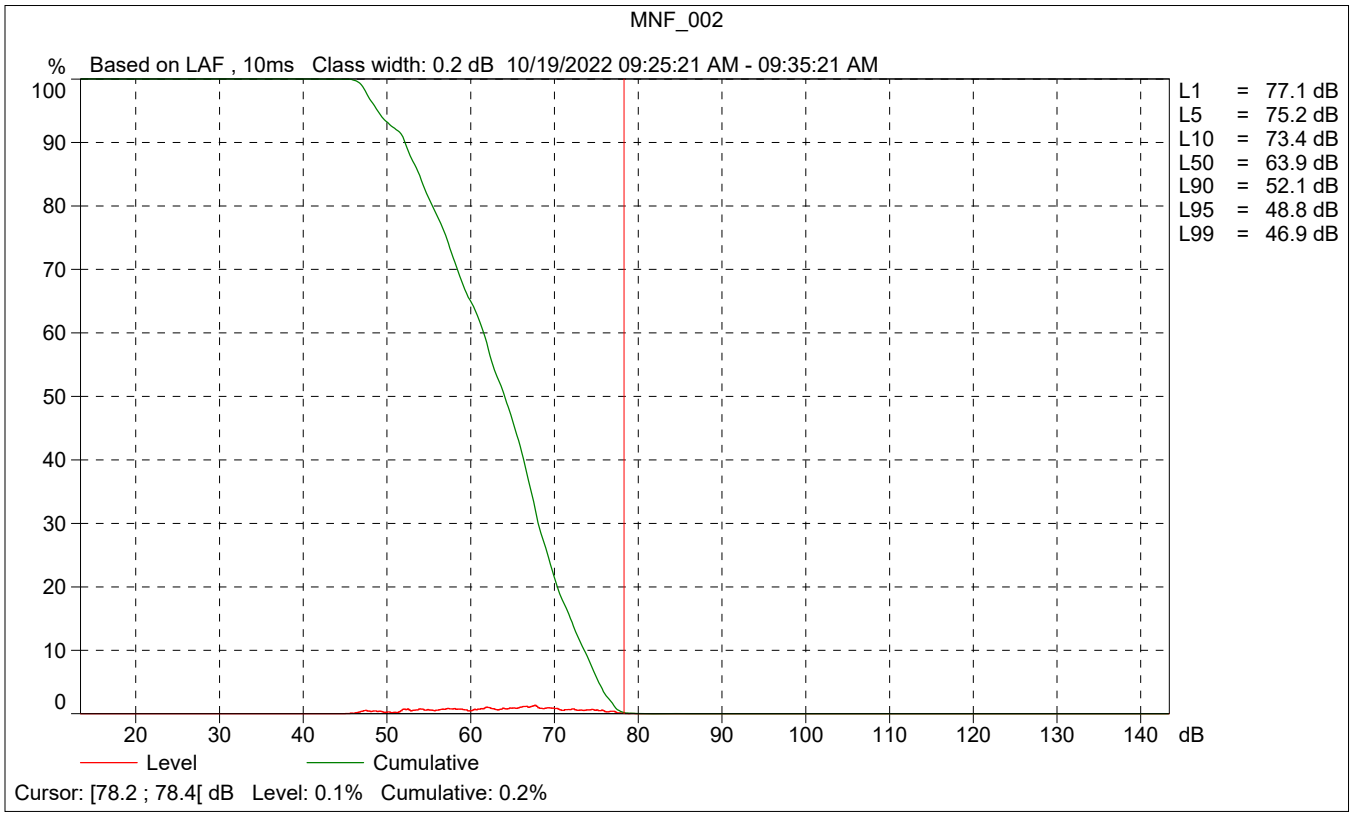
| | | |
|---|---|---|
| Instrument Serial Number: | | 3011133 |
| Microphone Serial Number: | | 3086765 |
| Input: | | Top Socket |
| Windscreen Correction: | | UA-1650 |
| Sound Field Correction: | | Free-field |

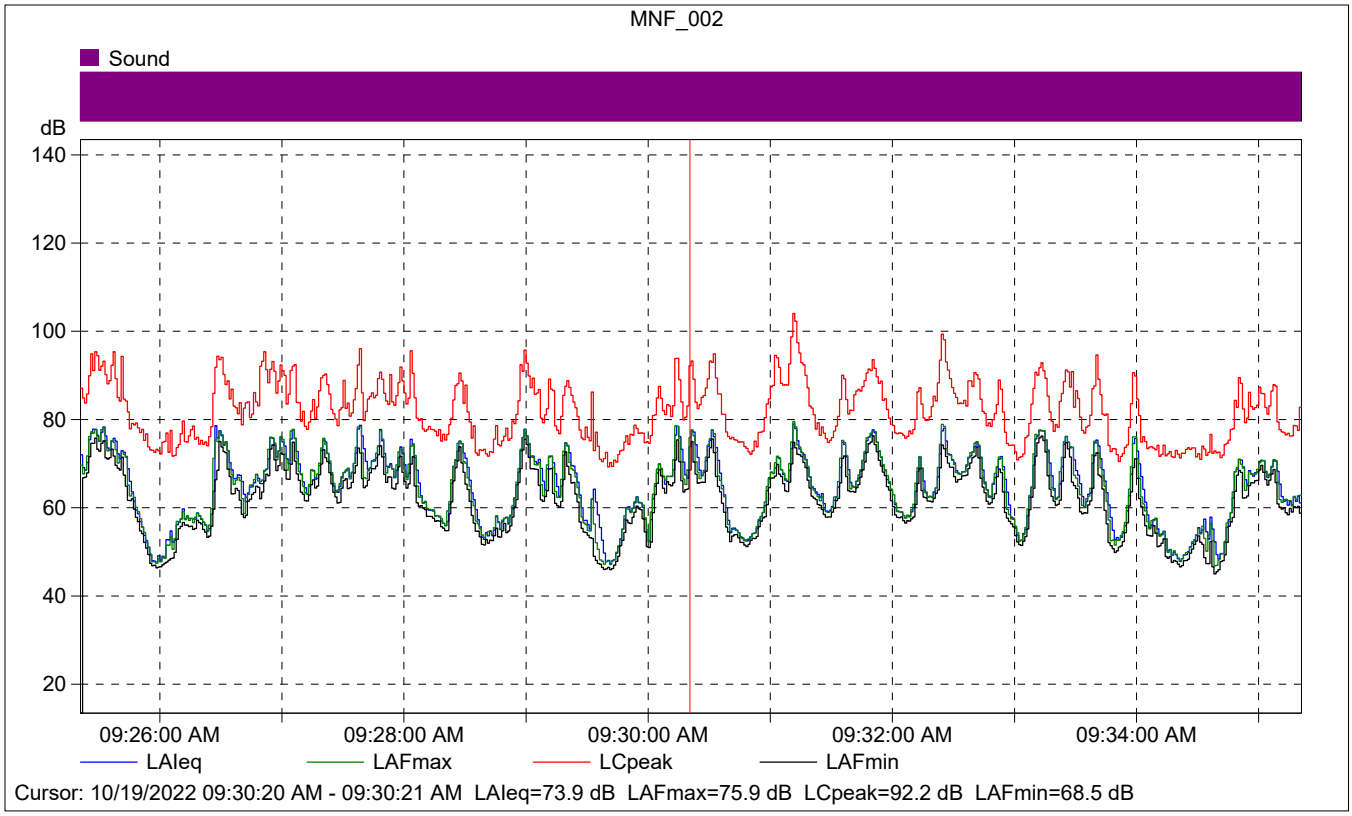
| | | |
|---|---|---|
| Calibration Time: | | 10/19/2022 07:11:45 |
| Calibration Type: | | External reference |
| Sensitivity: | | 43.3151684701443 mV/Pa |

## MNF_002

| | Start time | End time | Elapsed time | Overload [%] | LAeq [dB] | LAFmax [dB] | LAFmin [dB] |
|---|---|---|---|---|---|---|---|
| Value | | | | 0.00 | 68.5 | 79.6 | 45.0 |
| Time | 09:25:21 AM | 09:35:21 AM | 0:10:00 | | | | |
| Date | 10/19/2022 | 10/19/2022 | | | | | |

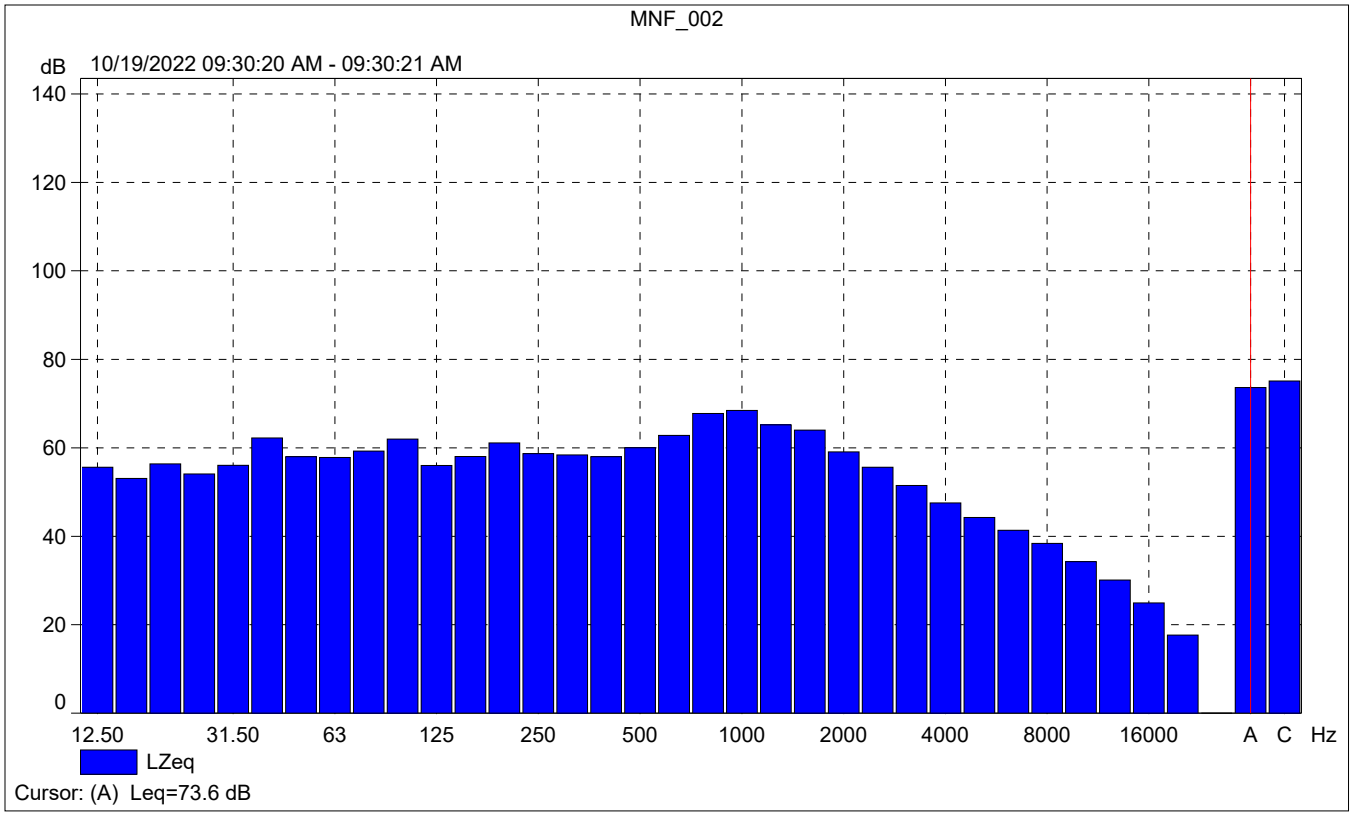

MNF_002
dB
10/19/2022 09:25:21 AM - 09:35:21 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=68.5 dB LFmax=79.6 dB LFmin=45.0 dB

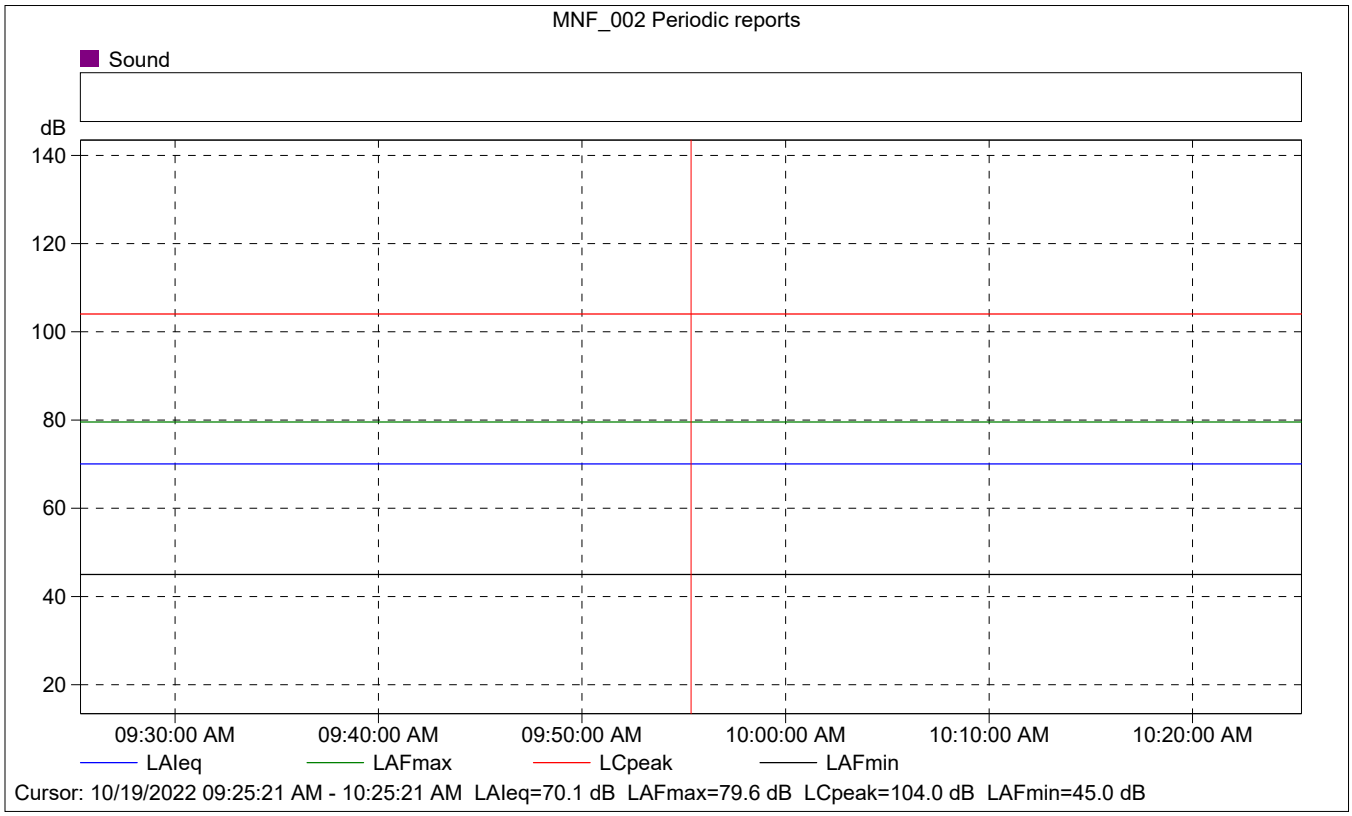

MNF_002
%
Based on LAF , 10ms Class width: 0.2 dB 10/19/2022 09:25:21 AM - 09:35:21 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 77.1 dB
L5 = 75.2 dB
L10 = 73.4 dB
L50 = 63.9 dB
L90 = 52.1 dB
L95 = 48.8 dB
L99 = 46.9 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[ dB Level: 0.1% Cumulative: 0.2%




## MNF_002

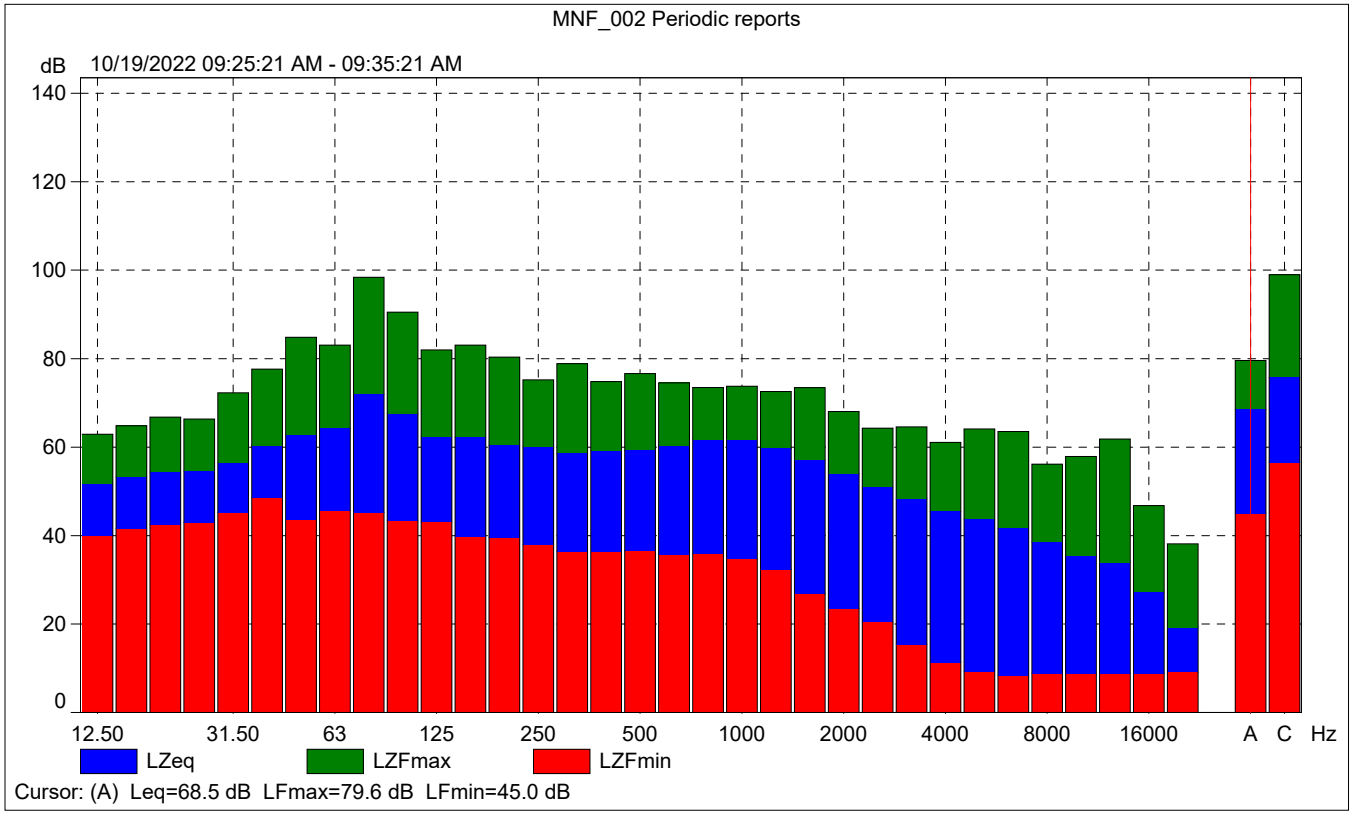
| | Start time | Elapsed time | LAIeq [dB] | LAFmax [dB] | LAFmin [dB] |
|---|---|---|---|---|---|
| Value | | | 73.9 | 75.9 | 68.5 |
| Time | 09:30:20 AM | 0:00:01 | | | |
| Date | 10/19/2022 | | | | |

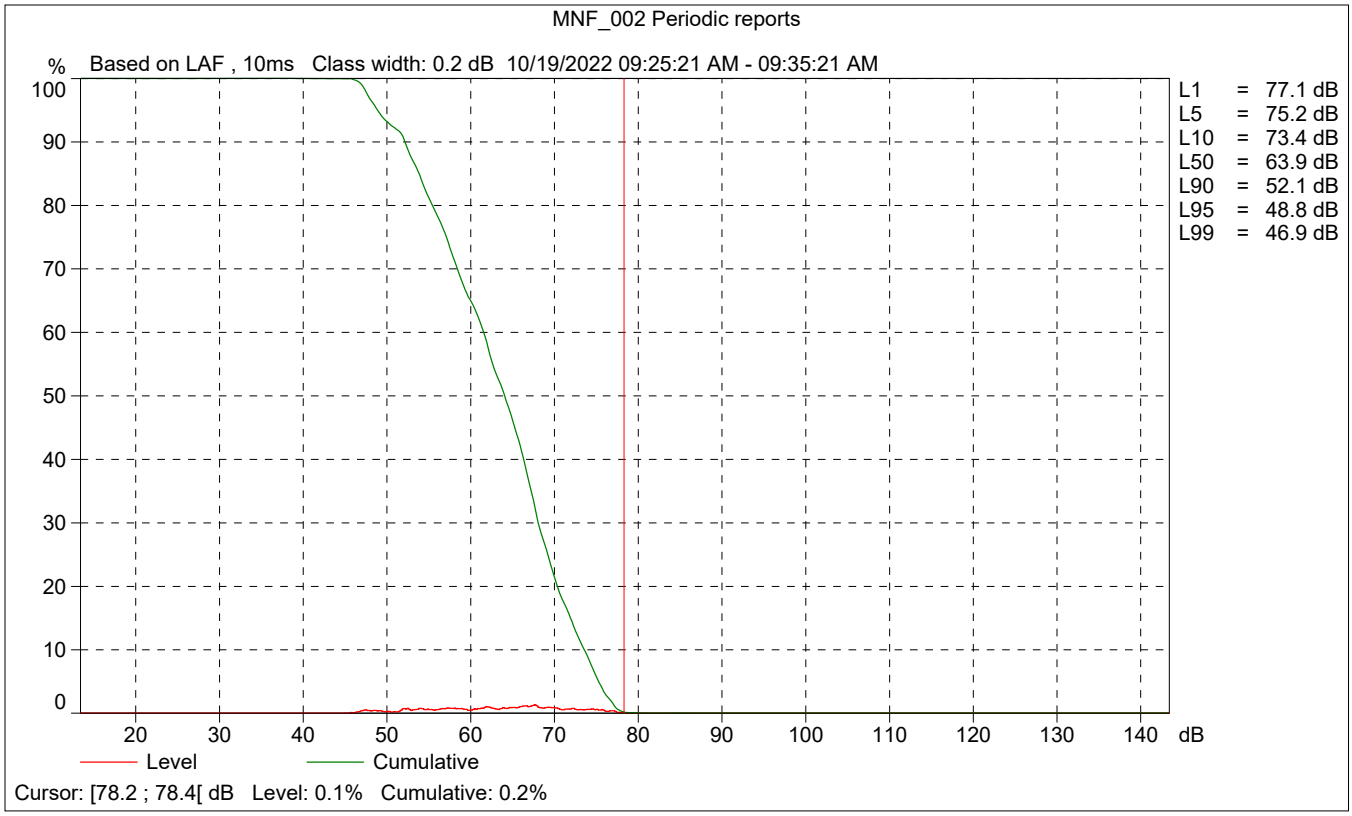

MNF_002
dB
10/19/2022 09:30:20 AM - 09:30:21 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=73.6 dB


MNF_002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
09:30:00 AM
09:40:00 AM
09:50:00 AM
10:00:00 AM
10:10:00 AM
10:20:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 10/19/2022 09:25:21 AM - 10:25:21 AM LAIeq=70.1 dB LAFmax=79.6 dB LCpeak=104.0 dB LAFmin=45.0 dB

# MNF_002 Periodic reports

| | Start time | Elapsed time | Overload [%] | LAIeq [dB] | LAFmax [dB] | LAFmin [dB] |
|---|---|---|---|---|---|---|
| Value | | | 0.00 | 70.1 | 79.6 | 45.0 |
| Time | 09:25:21 AM | 0:10:00 | | | | |
| Date | 10/19/2022 | | | | | |




MNF_002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 10/19/2022 09:25:21 AM - 09:35:21 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 = 77.1 dB
L5 = 75.2 dB
L10 = 73.4 dB
L50 = 63.9 dB
L90 = 52.1 dB
L95 = 48.8 dB
L99 = 46.9 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[ dB Level: 0.1% Cumulative: 0.2%