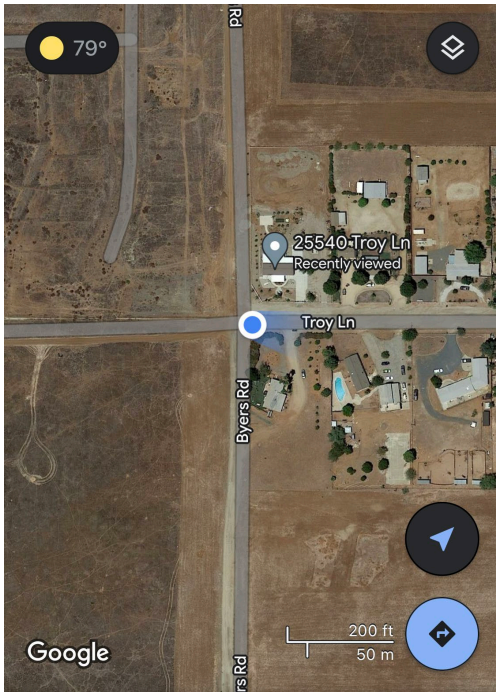
APPENDIX H
NOISE MODELING

Site Number: NM-1			
Recorded By: Tina Yuan, Alicia Gonzalez			
Job Number: 190068			
Date: 6/15/22			
Time: 9:52 a.m.			
Location: Southeast corner of intersection of the Byers Road and Troy Lane.			
Source of Peak Noise: Traffic along Troy Lane			
Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
45.5	58.5	35.0	79.5

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:** Clear
	Note: dBA Offset = 0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	2	76	29.81

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		06/15/2022 09:52:43
End Time:		06/15/2022 10:02:43
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.11

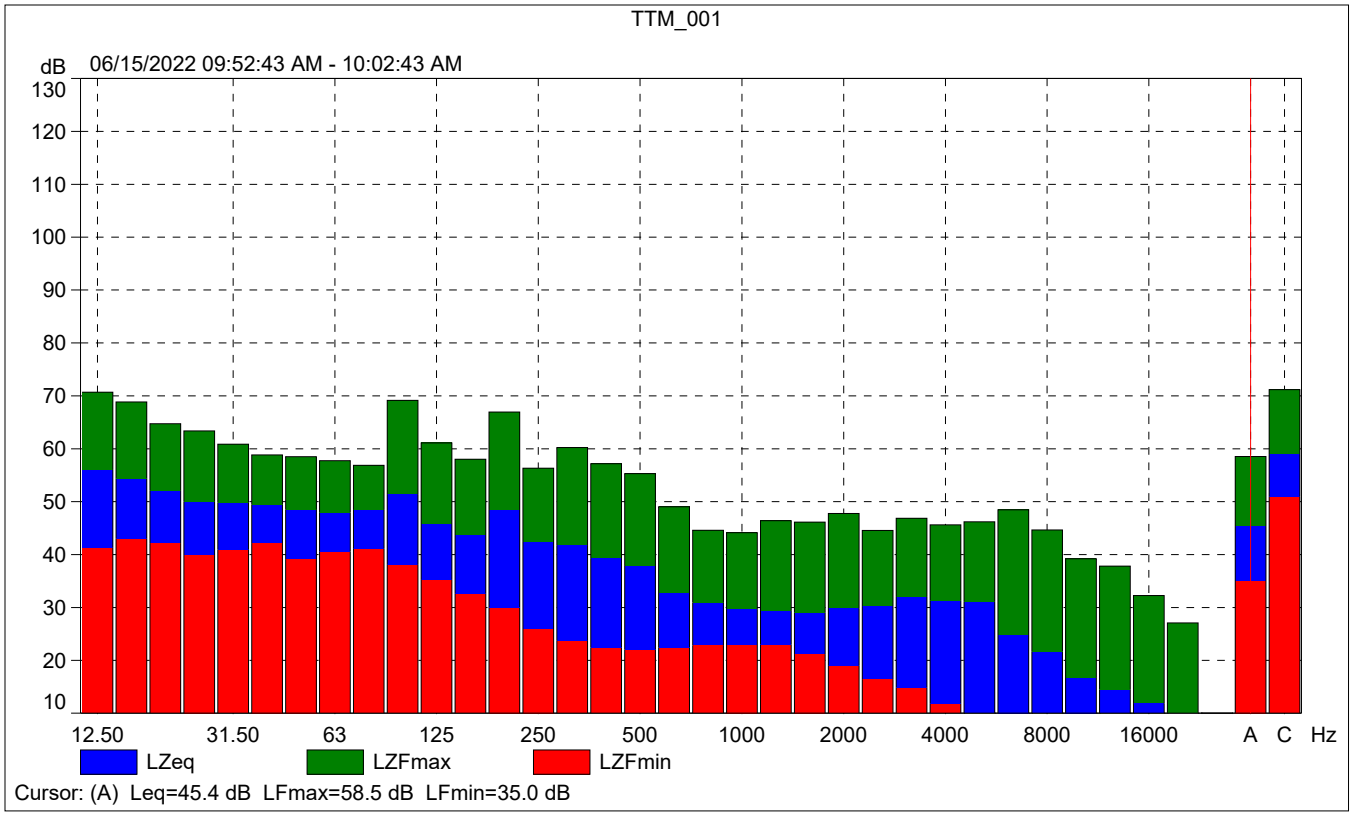
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

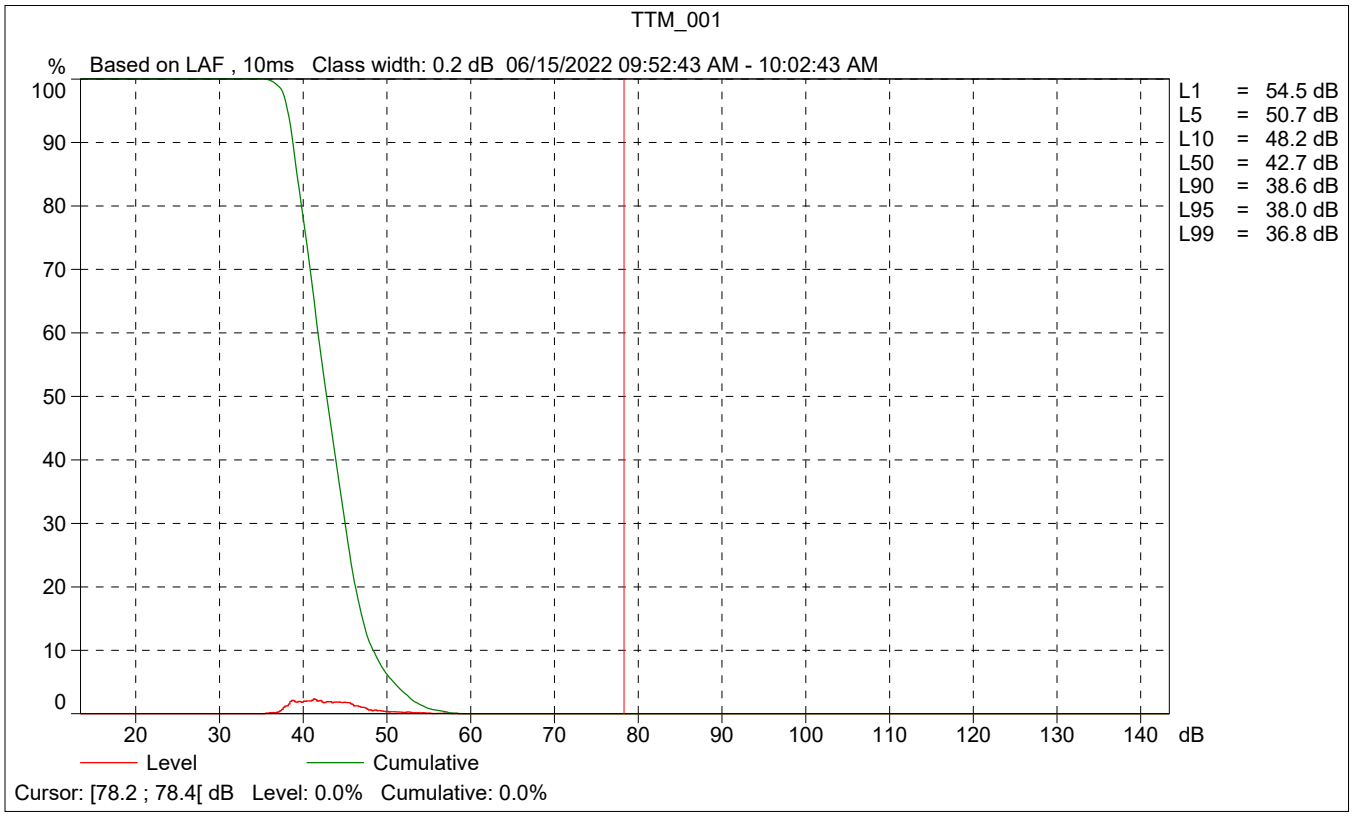
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

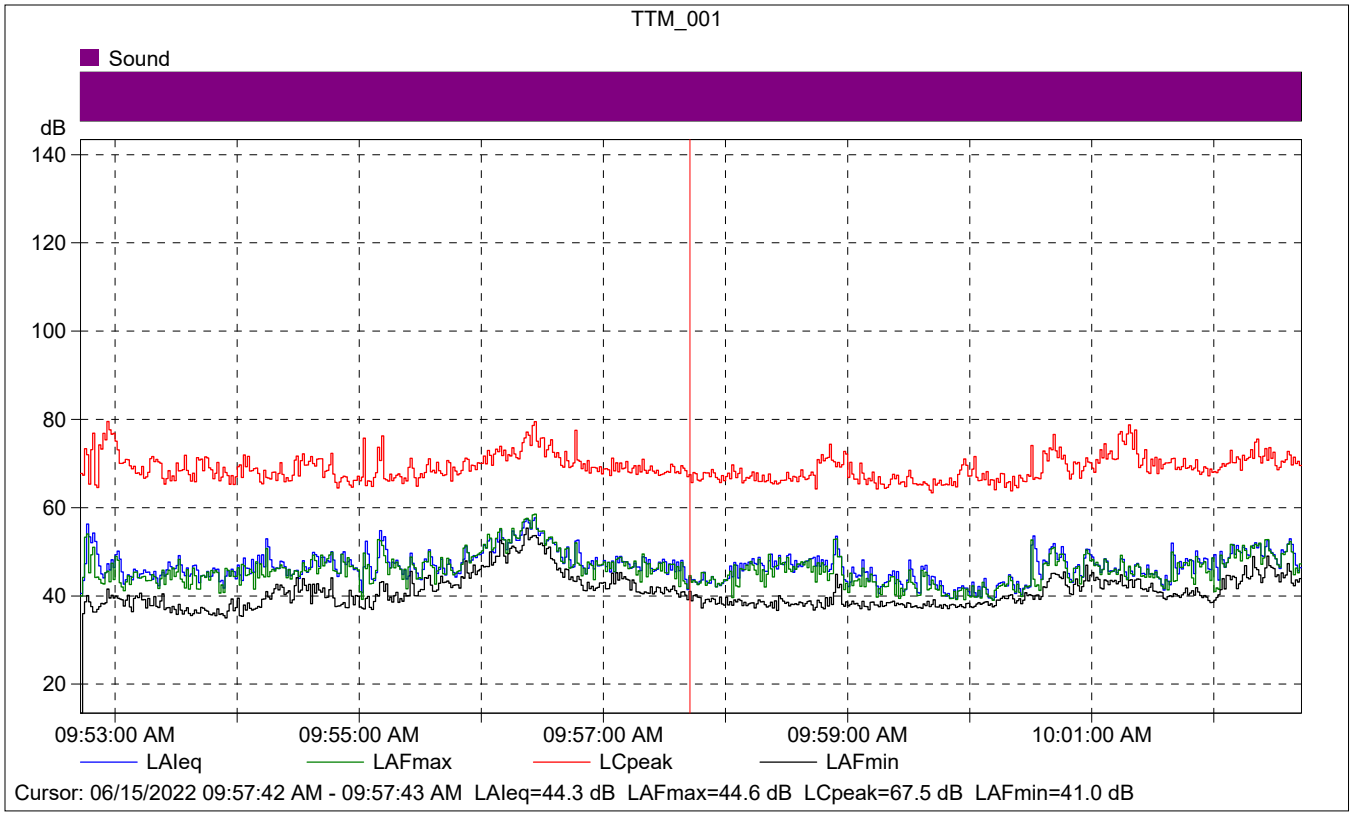
Calibration Time:		06/15/2022 07:43:12
Calibration Type:		External reference
Sensitivity:		43.6676666140556 mV/Pa

TTM_001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	45.4	58.5	35.0
Time	09:52:43 AM	10:02:43 AM	0:10:00				
Date	06/15/2022	06/15/2022					

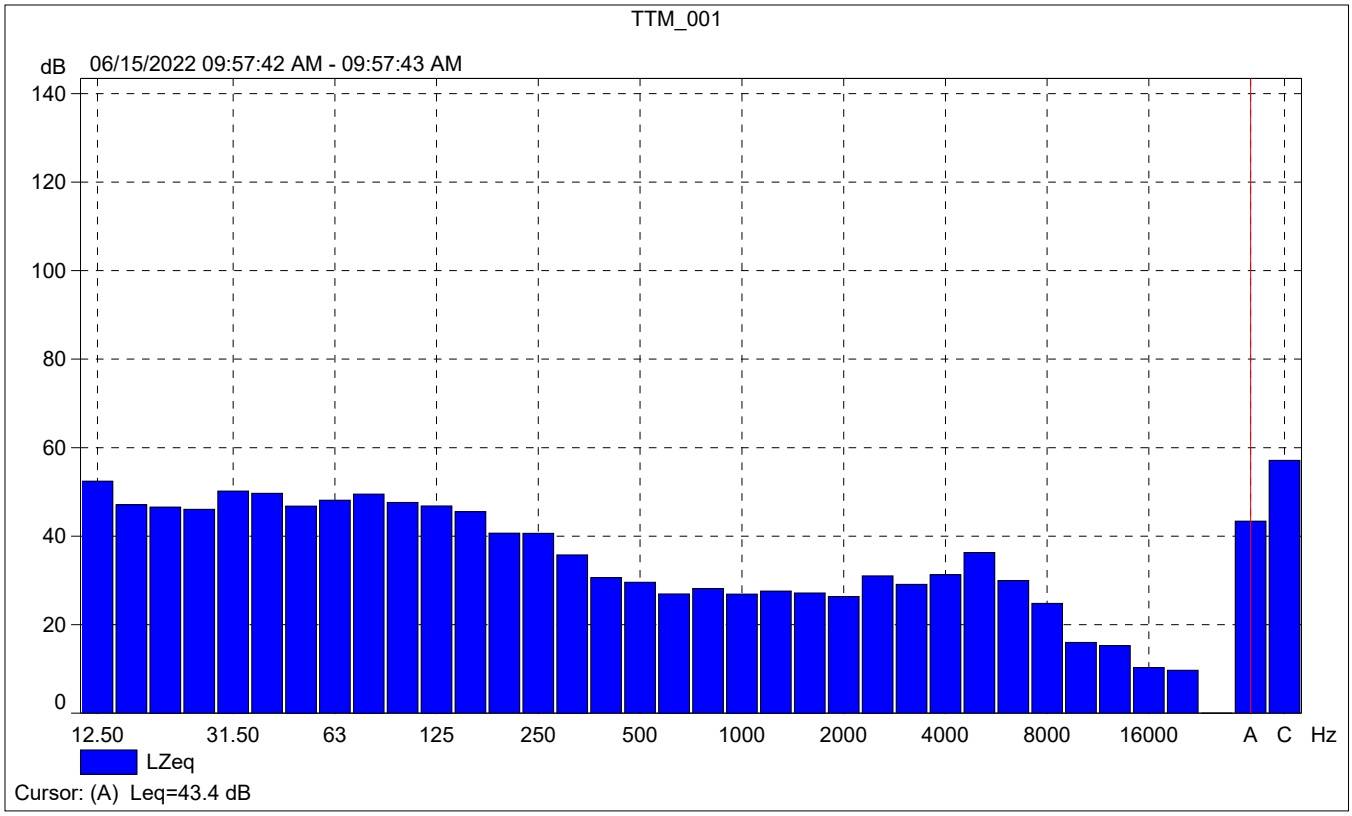

TTM_001
dB
06/15/2022 09:52:43 AM - 10:02:43 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=45.4 dB LFmax=58.5 dB LFmin=35.0 dB

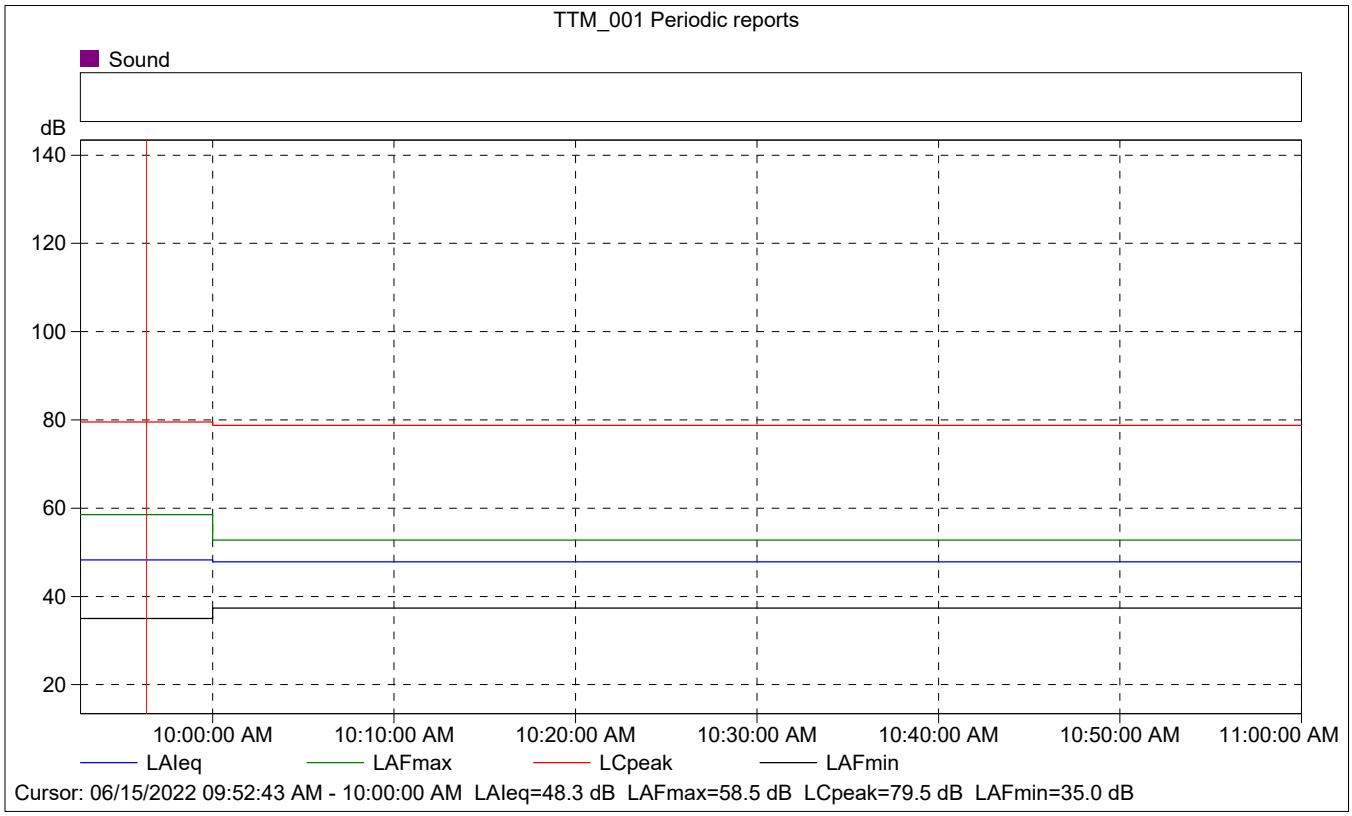

TTM_001
%
Based on LAF , 10ms Class width: 0.2 dB 06/15/2022 09:52:43 AM - 10:02:43 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 54.5 dB
L5 = 50.7 dB
L10 = 48.2 dB
L50 = 42.7 dB
L90 = 38.6 dB
L95 = 38.0 dB
L99 = 36.8 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



TTM_001

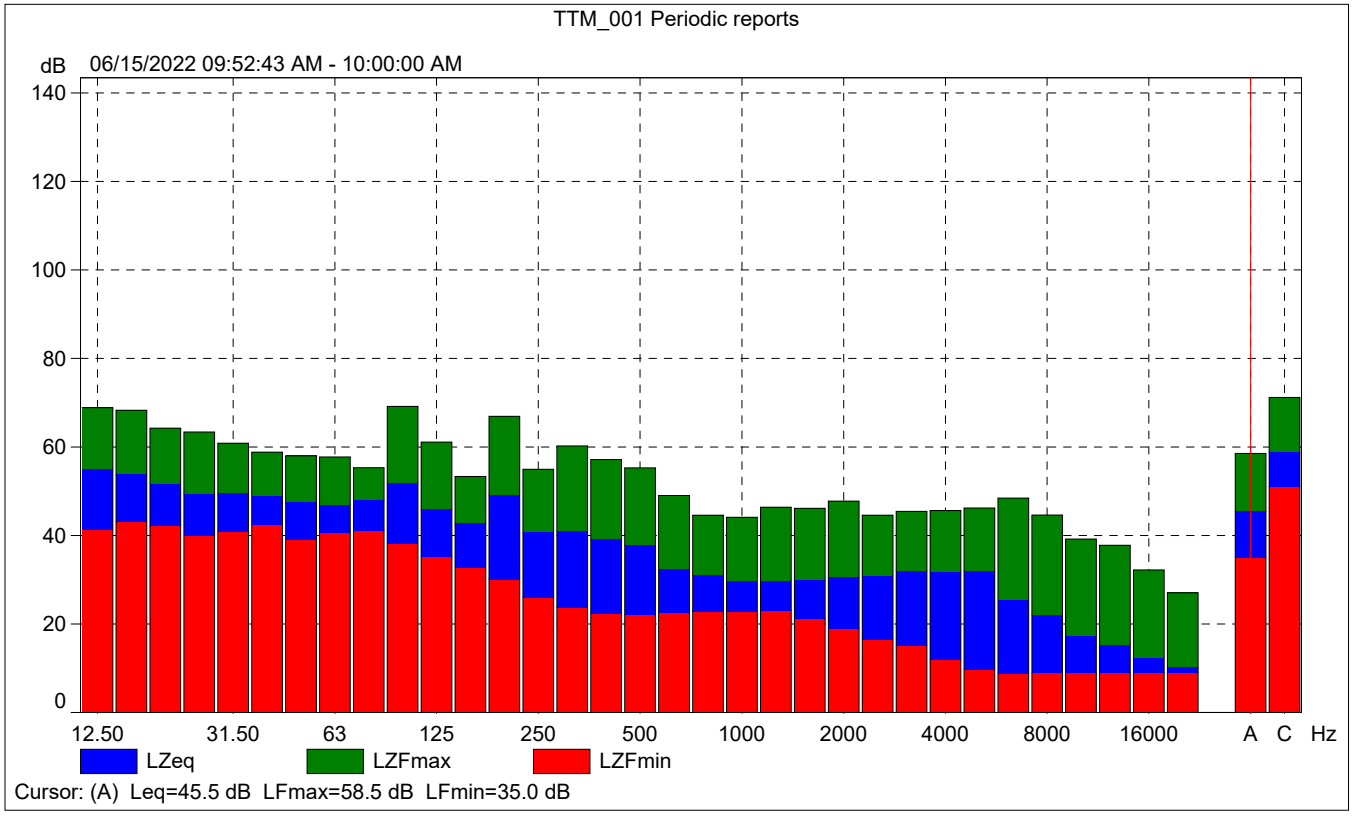
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			44.3	44.6	41.0
Time	09:57:42 AM	0:00:01			
Date	06/15/2022				

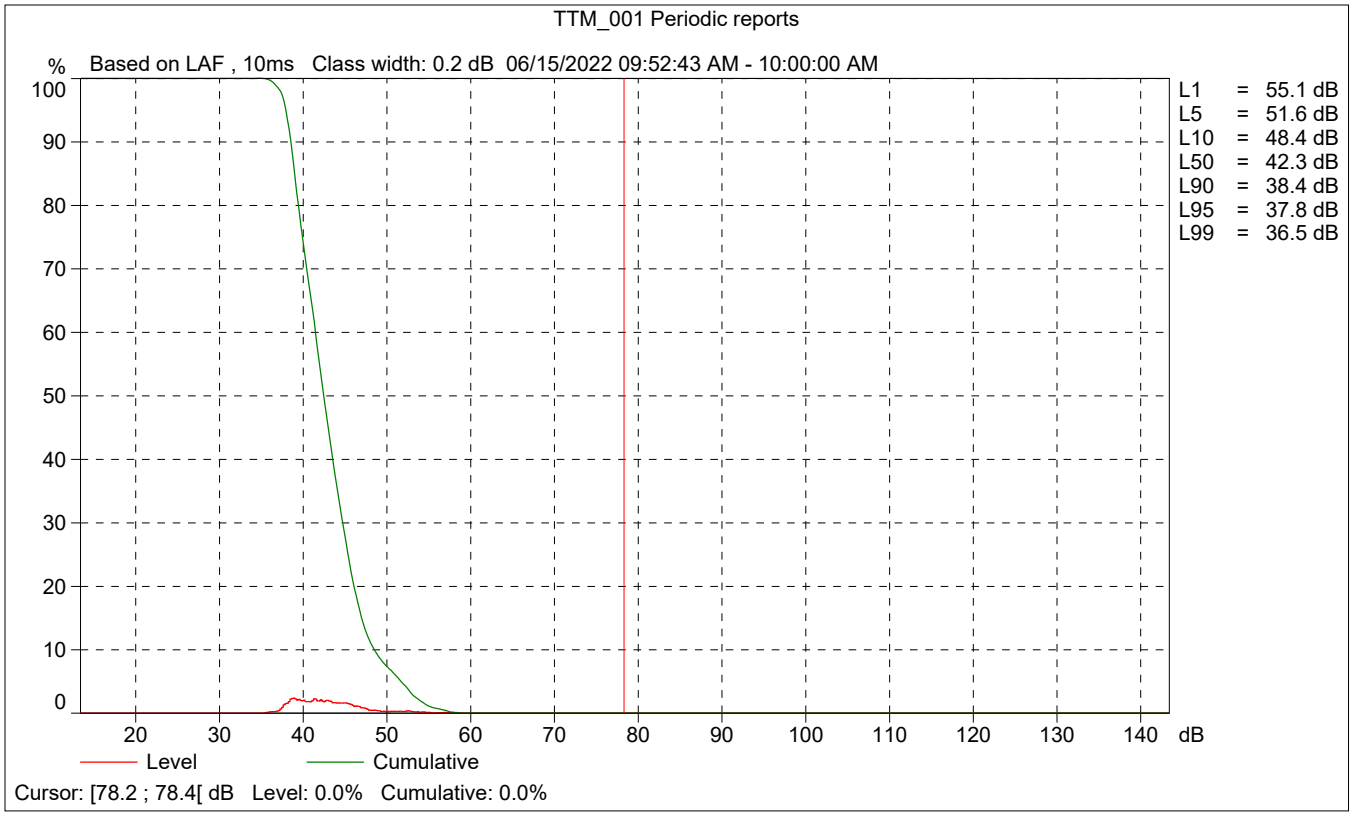

TTM_001
dB
06/15/2022 09:57:42 AM - 09:57:43 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=43.4 dB


TTM_001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:00:00 AM
10:10:00 AM
10:20:00 AM
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 06/15/2022 09:52:43 AM - 10:00:00 AM LAIeq=48.3 dB LAFmax=58.5 dB LCpeak=79.5 dB LAFmin=35.0 dB

TTM_001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	48.3	58.5	35.0
Time	09:52:43 AM	0:07:17				
Date	06/15/2022					



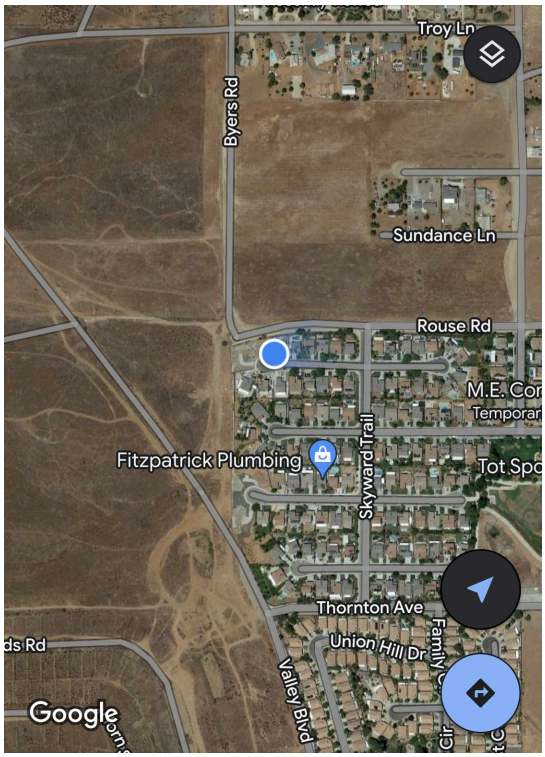

TTM_001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 06/15/2022 09:52:43 AM - 10:00:00 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 55.1 dB
L5 = 51.6 dB
L10 = 48.4 dB
L50 = 42.3 dB
L90 = 38.4 dB
L95 = 37.8 dB
L99 = 36.5 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-2			
Recorded By: Tina Yuan, Alicia Gonzalez			
Job Number: 190068			
Date: 6/15/22			
Time: 10:12 a.m.			
Location: Cul-de-sac of the Mesa Edge Court, southwest corner of the 25554 Mesa Edge Court.			
Source of Peak Noise: Traffic along Mesa Edge Court.			
Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
47.9	63.3	37.3	80.7

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
	Note: dBA Offset = 0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	2	76	29.81

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		06/15/2022 10:12:10
End Time:		06/15/2022 10:22:10
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.11

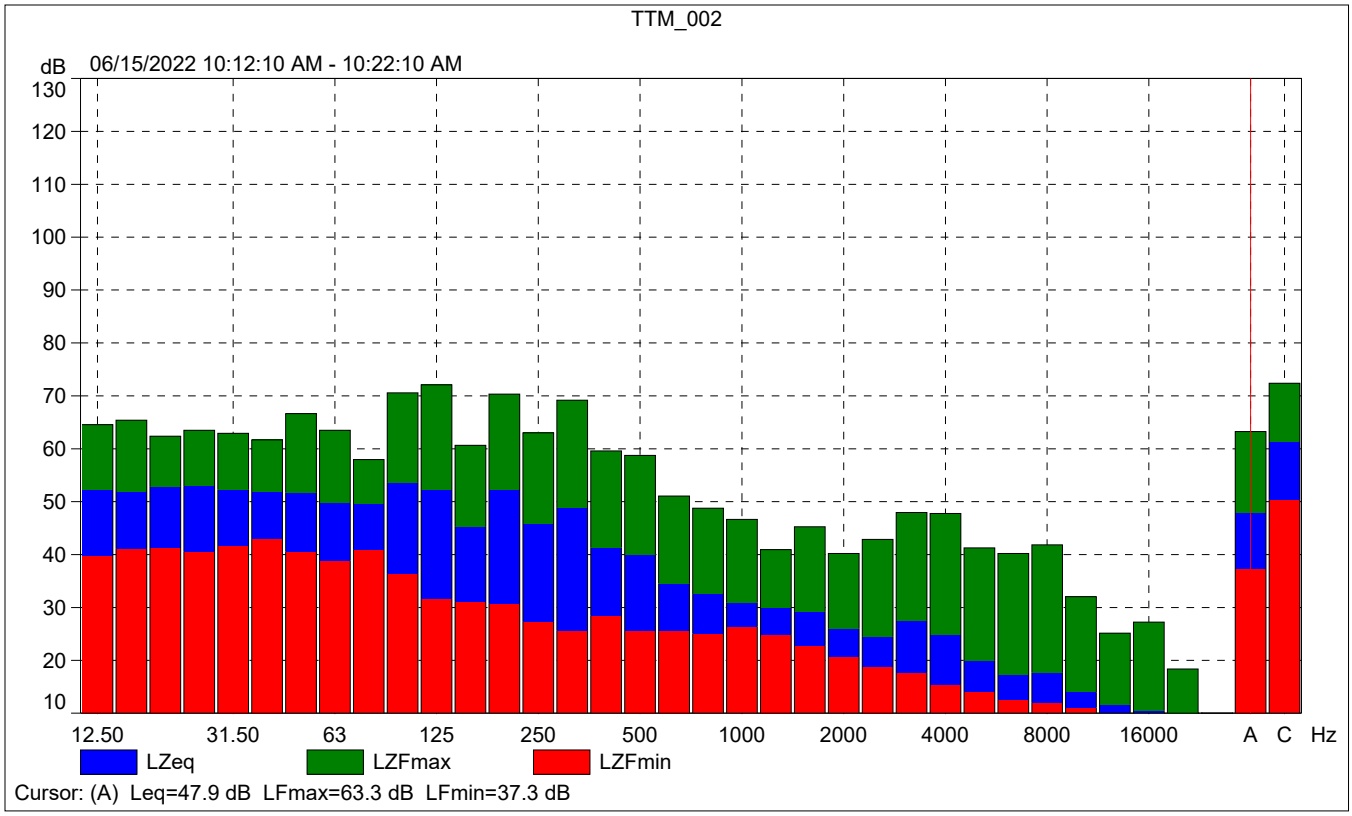
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

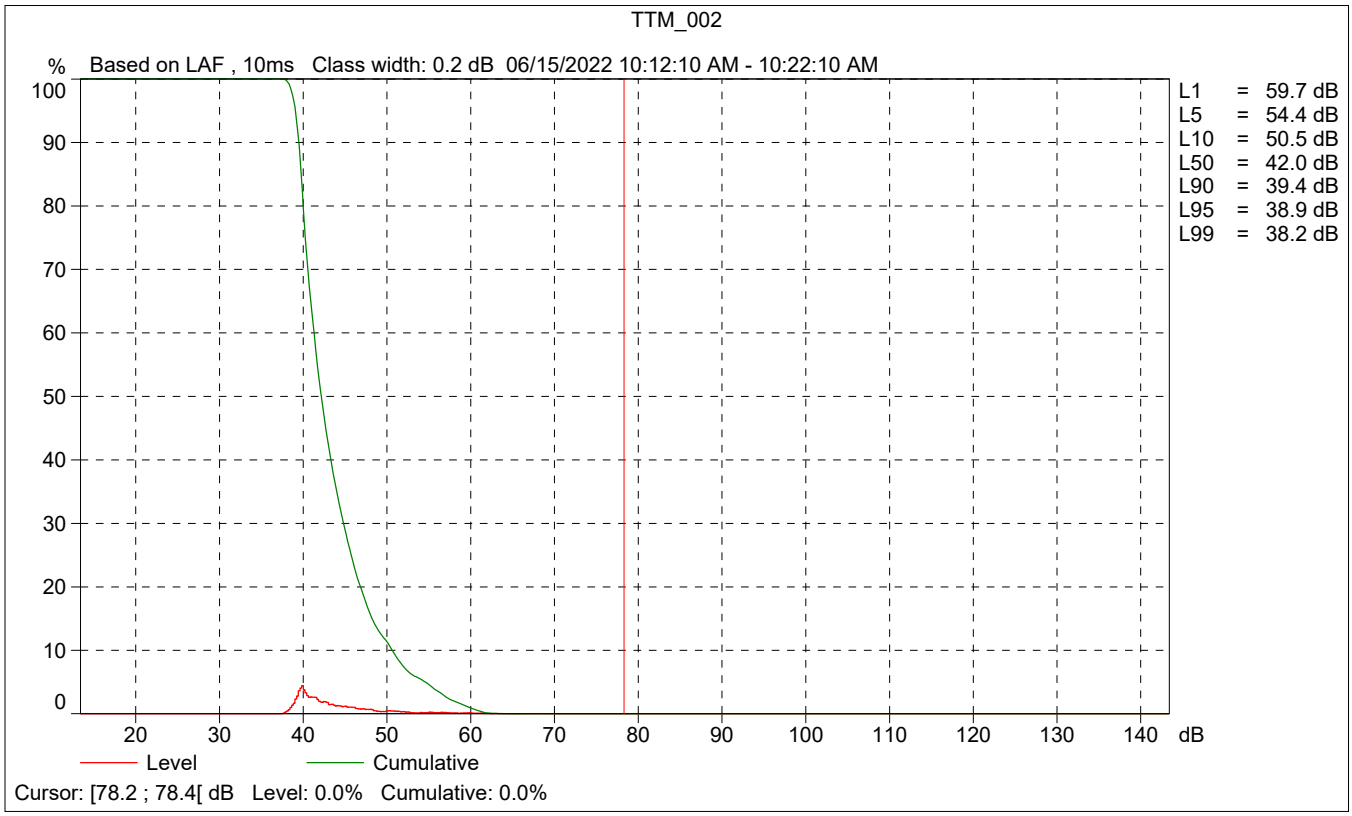
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

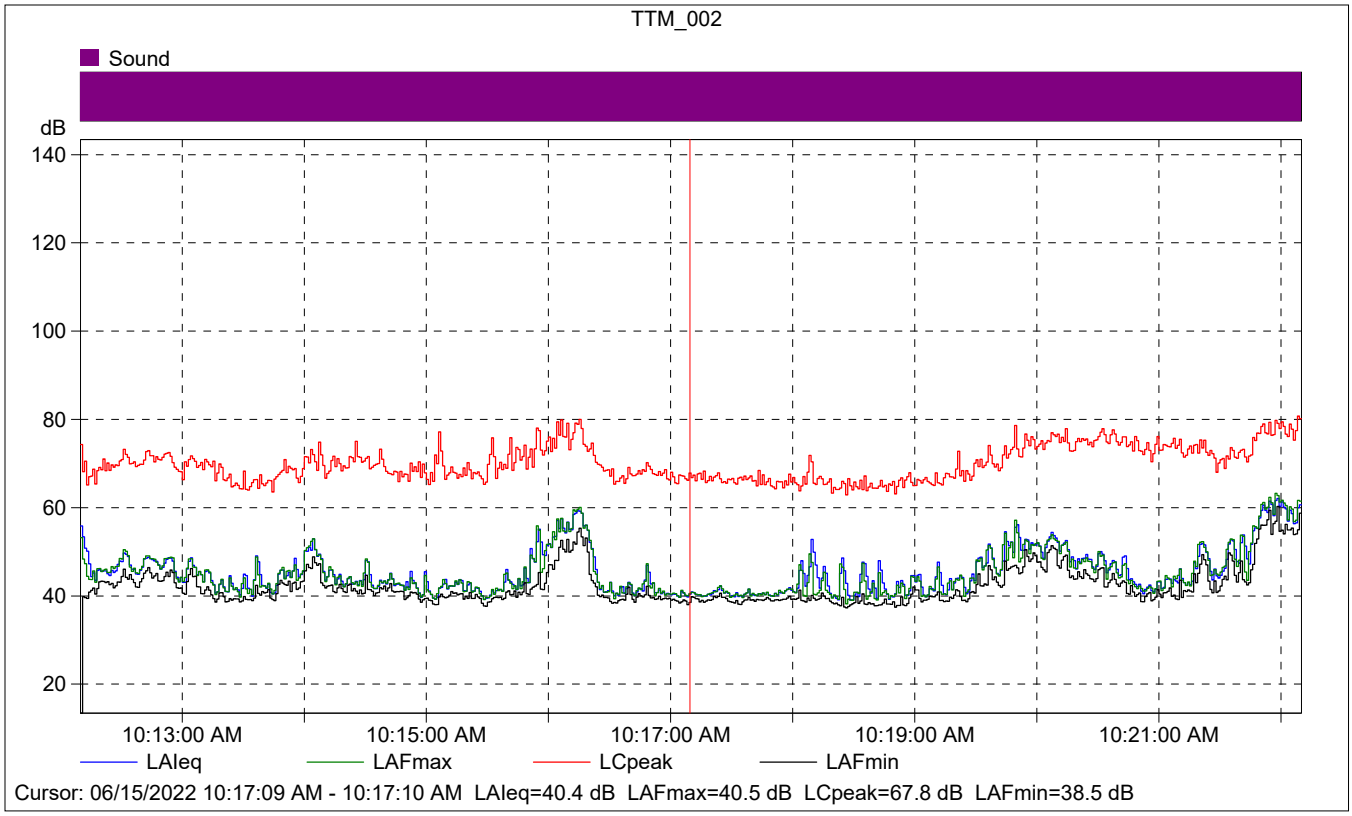
Calibration Time:		06/15/2022 07:43:12
Calibration Type:		External reference
Sensitivity:		43.6676666140556 mV/Pa

TTM_002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	47.9	63.3	37.3
Time	10:12:10 AM	10:22:10 AM	0:10:00				
Date	06/15/2022	06/15/2022					

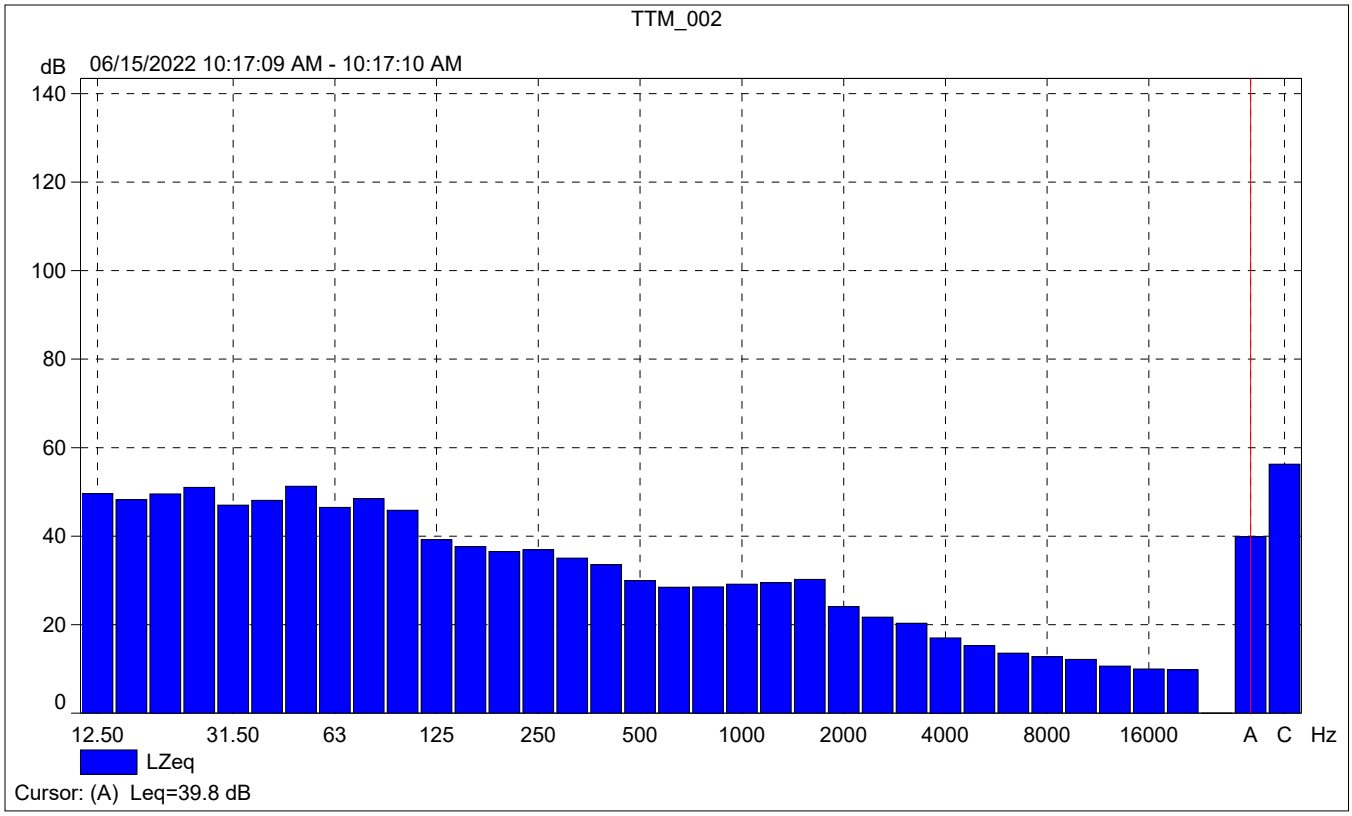

TTM_002
dB
06/15/2022 10:12:10 AM - 10:22:10 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=47.9 dB LFmax=63.3 dB LFmin=37.3 dB

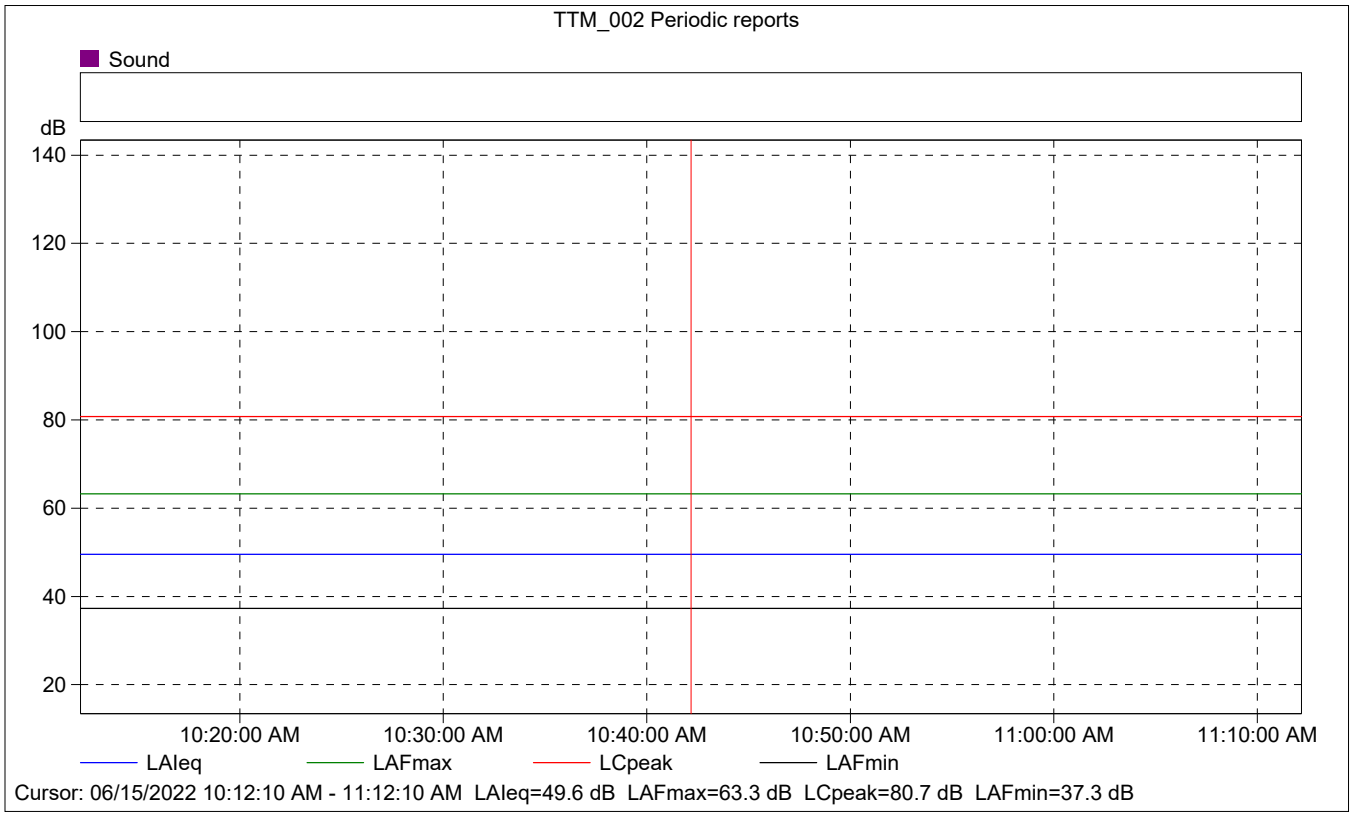

TTM_002
%
Based on LAF , 10ms Class width: 0.2 dB 06/15/2022 10:12:10 AM - 10:22:10 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 59.7 dB
L5 = 54.4 dB
L10 = 50.5 dB
L50 = 42.0 dB
L90 = 39.4 dB
L95 = 38.9 dB
L99 = 38.2 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



TTM_002

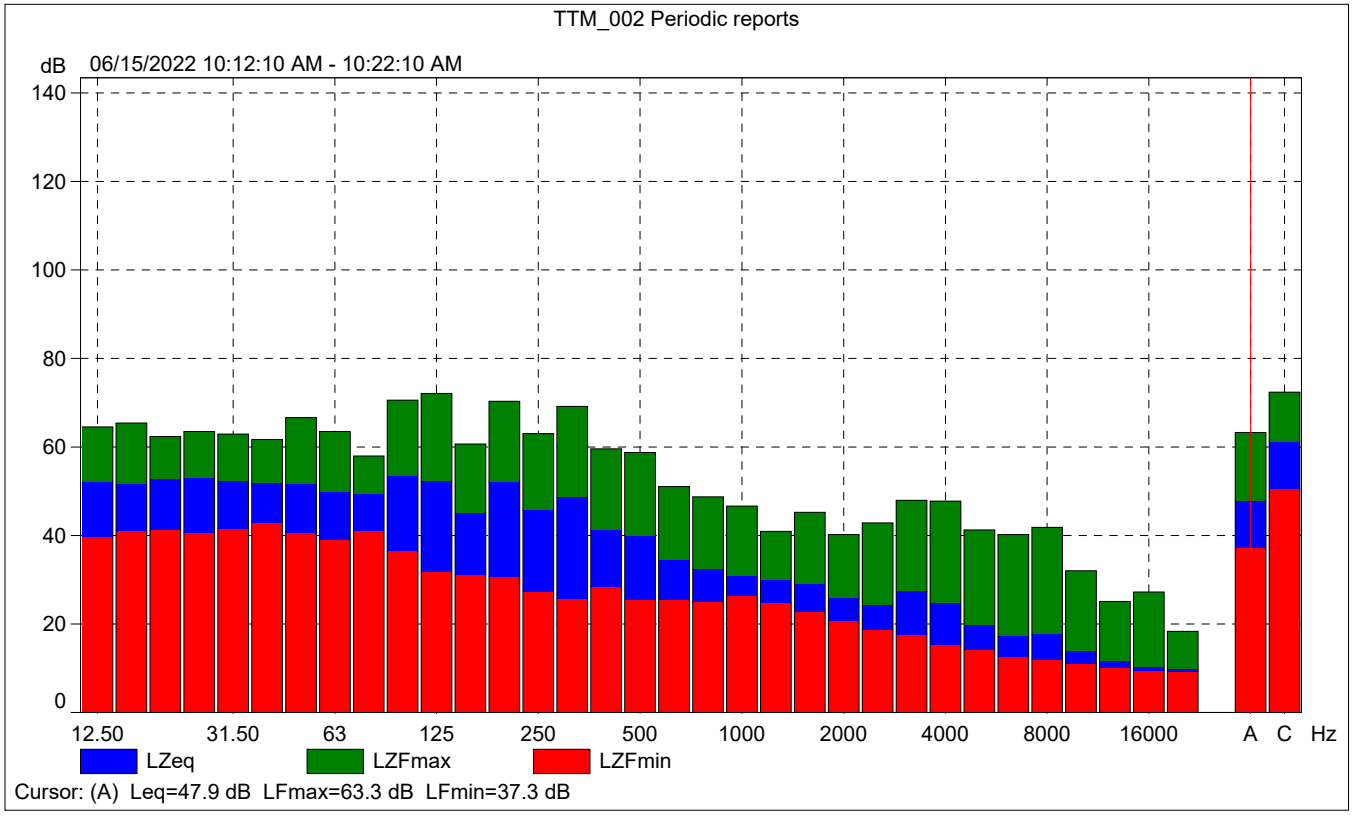
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			40.4	40.5	38.5
Time	10:17:09 AM	0:00:01			
Date	06/15/2022				

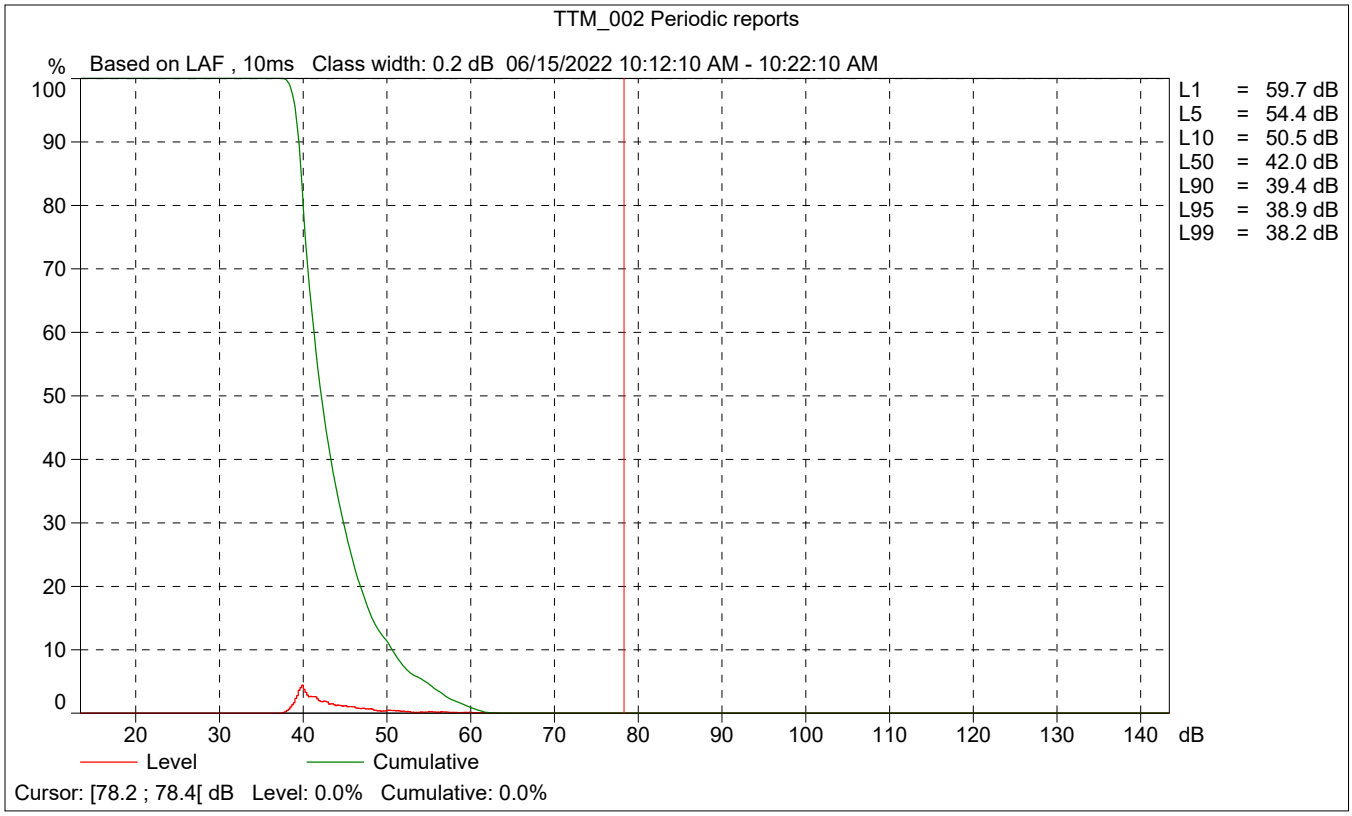

TTM_002
dB
06/15/2022 10:17:09 AM - 10:17:10 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=39.8 dB


TTM_002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:20:00 AM
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 06/15/2022 10:12:10 AM - 11:12:10 AM LAIeq=49.6 dB LAFmax=63.3 dB LCpeak=80.7 dB LAFmin=37.3 dB

TTM_002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	49.6	63.3	37.3
Time	10:12:10 AM	0:10:00				
Date	06/15/2022					




TTM_002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 06/15/2022 10:12:10 AM - 10:22:10 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 = 59.7 dB
L5 = 54.4 dB
L10 = 50.5 dB
L50 = 42.0 dB
L90 = 39.4 dB
L95 = 38.9 dB
L99 = 38.2 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%