



Azymuth Acoustics UK

Professional Acoustic Services

Discharge of Planning Condition 8 Acoustic Testing Report Ref: Z58118

Francis Road
Withington

On behalf of

J Greenwood (Builders) Ltd
Unit B9 Greengate Industrial Estate
Greenside Way
Chadderton,
M24 1SW

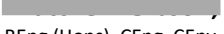


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Disclaimer

This report has been prepared by Azymuth Acoustics UK with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our Standard Terms and Conditions of Business and taking into account the resources devoted to it by agreement with the Client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own discretion and risk.



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1.0 Introduction

Azymuth Acoustics UK (henceforth Azymuth) were appointed by J Greenwood (Builders) Ltd in February 2023 to undertake acoustic testing in order to discharge a planning condition on a new build apartment block located on Francis Road, Withington. The development consists of 24no. new dwellings.

Testing has been instructed in order to assist with the discharge of a planning condition in relation to internal noise levels. A Noise Impact Assessment (NIA) was undertaken by Azymuth in November 2023 in order to develop a scheme to suitably insulate the development from external noise. The purpose of the testing is to confirm that the mitigation advice issued in this assessment is appropriate for the development and that the internal noise levels are of an acceptable level.

1.1 Measurement Procedure

The instrumentation used for the acoustic testing consisted of 2no. SvanTek 971, 1no. SvanTek 977 and 1no. NTi XL2-TA type 1 precision sound level meter(s). The equipment was calibrated before and after measurements. The sound level meters measured A-weighted (fast response) noise levels as well as octave bands noise levels for all measurement record.

Measurements were taken in the bedrooms and living rooms of Plots 12 (1F), 13 (1F) and 4 (GF). These plots were chosen as they would be deemed to be the dwellings worst affected by traffic noise. The instrumentation measured the internal noise levels to be experienced by the plots over a continuous time period taking into account rush-hour as well as the night-time.

Measurements were undertaken over the below periods:

Plot No.	Room	Start Date/Time	End Date/Time
12	Living Room	1/8/25 15:15:00	4/8/25 07:45:00
	Bedroom	1/8/25 15:15:00	4/8/25 06:45:00
13	Living Room	1/8/25 15:45:00	4/8/25 07:45:00
	Bedroom	8/8/25 09:00:00	11/8/25 08:00:00
4	Living Room	8/8/25 09:00:00	11/8/25 08:00:00
	Bedroom	8/8/25 09:00:00	11/8/25 08:00:00

Table 1 – Measurement durations

Full results of the noise levels recorded during the course of the survey are included in Appendix B of this report.

2.0 Assessment Criteria

In order to assess the extent of any measures required in order to comply with suitable conditions relating to potential noise sources, AAUK has reviewed various guidance documents and standards, these include:

- British Standard 8233:2014
- World Health Organisation Guidelines on Community Noise
- Manchester City Council Planning Application No: 134603/FO/2022 (Condition 8)

2.1 British Standard 8233: 2014

BS 8233 provides a code of practice for the sound insulation of a variety of building types affected by general environmental noise. It provides recommendations for control of noise in and around buildings and suggests appropriate internal ambient noise level criteria / limits for a variety of different situations including residential properties.

The following table summarises the noise limits suggested by BS 8233 applying to residential properties:

Activity	Room	Good Design Range $L_{Aeq, T}$ dB	
		07:00-23:00hrs	23:00-07:00hrs
Resting	Living Room	35	-
Dining	Dining Room / Area	40	-
Sleeping (daytime resting)	Bedroom (at night)	35	30

Table 2 – Noise Limits for Residential Properties Suggested in BS 8233

2.2 World Health Organisation Environmental Noise Guidelines (ENG) 2018

The main purpose of the 2018 WHO guidelines is to provide recommendations for protecting human health from exposure to environmental noise originating from the following sources: transportation (road traffic, railway and aircraft), wind turbines and leisure activities.

The guidelines set out to define recommended exposure levels for environmental noise in order to protect population health. Exposure limits are average levels defined over a period of one year, measured outdoors in free field at the most exposed façade. It should be noted that the document does not provide guideline limit values for multiple noise sources in combination.

The 2018 guidelines supersede the Community Noise Guidelines from 1999. Nevertheless, the document recommends that all CNG indoor guideline values and any values not covered by the current guidelines should remain valid. As such, the following guidance would remain appropriate:

For protection against sleep disturbance inside dwellings, night-time noise levels should not exceed 30dB L_{Aeq} for continuous noise and 45dB L_{Amax} for typical single sound events (which are exceeded 15 times or more per night – see ProPG Appendix A.12 for more details).

To protect the majority of people from being seriously annoyed during the daytime, the outdoor sound level from steady, continuous noise (interpreted as noise from all sources combined) should not exceed 55dB L_{Aeq} on balconies, terraces and in outdoor living areas.



It should be noted that exposure levels defined in ENG and CNG are for guidance purposes as relates potential adverse health impacts and should not be interpreted as absolute limits or regulations.

2.3 Manchester City Council Planning Application No: 134603/FO/2022

2.3.2 Condition 8

'a) Prior to the commencement of above ground works associated with the approved development (excluding demolition works) a scheme for acoustically insulating the proposed residential accommodation against noise from nearby roads shall be submitted to and approved in writing by the City Council as local planning authority.

The submitted scheme shall also assess the potential for overheating and the noise insulation scheme shall take this into account. The approved noise insulation and ventilation scheme shall be completed before any of the dwelling units are occupied.

b) Prior to first occupation of the residential units, a verification report shall be required to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved acoustic consultant's report. The report shall also undertake post completion testing to confirm that the internal noise criteria have been met. Any instances of non-conformity with the recommendations in the report shall be detailed along with any measures required to ensure compliance with the internal noise criteria.

Reason - To secure a reduction in noise from traffic or other sources in order to protect future residents from noise disturbance and to reduce the potential for overheating pursuant to policy DM1 of the Core Strategy and saved Unitary Development Plan policy DC26.'



3.0 Assessment of Results

3.1 Plot 12: Living Room

The following table summarises the noise measurement data for the Living Room of Plot 12 over the measurement period.

Location	Period	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Plot 12: Living Room	Day	41.5	22.0	21.5	19.9	19.4
Plot 12: Living Room	Night	41.0	21.6	20.6	20.0	19.8

Table 3 – Summary of daytime and night-time noise levels Plot 12 Living Room

3.2 Plot 12: Bedroom

The following table summarises the noise measurement data for the Bedroom of Plot 12 over the measurement period.

Location	Period	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Plot 12: Bedroom	Day	37.6	24.4	24.7	21.1	19.3
Plot 12: Bedroom	Night	33.3	26.1	25.2	21.1	19.6

Table 4 – Summary of daytime and night-time noise levels Plot 12 Bedroom

- 15th highest night-time L_{Amax} value = 39.9dB

3.3 Plot 13: Living Room

The following table summarises the noise measurement data for the Living Room of Plot 13 over the measurement period.

Location	Period	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Plot 13: Living Room	Day	48.2	26.8	25.0	19.3	17.8
Plot 13: Living Room	Night	38.2	23.0	19.7	18.1	17.2

Table 5 – Summary of daytime and night-time noise levels Plot 13 Living Room



3.4 Plot 13: Bedroom

The following table summarises the noise measurement data for the Bedroom of Plot 13 over the measurement period.

Location	Period	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Plot 13: Bedroom	Day	41.5	20.5	20.8	19.6	19.3
Plot 13: Bedroom	Night	32.1	18.4	19.9	19.5	19.3

Table 6 – Summary of daytime and night-time noise levels Plot 13 Bedroom

- 15th highest night-time L_{Amax} value = 39.6dB

3.5 Plot 4: Living Room

The following table summarises the noise measurement data for the Living Room of Plot 4 over the measurement period.

Location	Period	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Plot 4: Living Room	Day	38.4	22.6	22.2	20.7	20.4
Plot 4: Living Room	Night	29.7	20.7	20.7	20.4	20.3

Table 7 – Summary of daytime and night-time noise levels Plot 4 Living Room

3.6 Plot 4: Bedroom

The following table summarises the noise measurement data for the Bedroom of Plot 4 over the measurement period.

Location	Period	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Plot 4: Bedroom	Day	41.5	19.3	18.4	16.9	16.2
Plot 4: Bedroom	Night	28.1	16.7	16.9	16.4	15.9

Table 8 – Summary of daytime and night-time noise levels Plot 4 Bedroom

- 15th highest night-time L_{Amax} value = 31.7dB

A graph of the noise measurement data is included in Appendix C of this report.



4.0 Summary

Azymuth were appointed by J Greenwood (Builders) Ltd in February 2023 to undertake acoustic testing at a new-build development located on Francis Road, Withington.

A planning condition was issued by Manchester City Council, this condition stated that a verification report would have to be completed in order to validate that the relevant internal noise level targets had been met.

The internal noise level targets are as follows:

- Bedrooms (night-time - 23.00 - 07.00) 30dB L_{Aeq} (individual noise events shall not exceed 45dB $L_{Amax,F}$ by more than 15 times)
- Living Rooms (daytime - 07.00 - 23.00) 35dB L_{Aeq}

Plot 12

The daytime noise levels in the Living Room of Plot 12 were measured to be 22dB $L_{Aeq, 16hr}$, the night-time noise levels in the bedroom were measured to be 26.1dB $L_{Aeq, 8hr}$. The 15th highest night-time L_{Amax} value was measured to be 39.9dB. The measured noise levels are compliant with the target criteria.

Plot 13

The daytime noise levels in the Living Room of Plot 13 were measured to be 26.8dB $L_{Aeq, 16hr}$, the night-time noise levels in the bedroom were measured to be 18.4dB $L_{Aeq, 8hr}$. The 15th highest night-time L_{Amax} value was measured to be 39.6dB. The measured noise levels are compliant with the target criteria.

Plot 4

The daytime noise levels in the Living Room of Plot 4 were measured to be 22.6dB $L_{Aeq, 16hr}$, the night-time noise levels in the bedroom were measured to be 16.7dB $L_{Aeq, 8hr}$. The 15th highest night-time L_{Amax} value was measured to be 31.7dB. The measured noise levels are significantly uncompliant with the target criteria.

Summary

Plot no.	Room	Target	Result	Compliance
12	Living room	$\leq 35\text{dB } L_{Aeq, \text{day}}$	22dB $L_{Aeq, \text{day}}$	Compliant
	Bedroom	$\leq 30\text{dB } L_{Aeq, \text{night}}$ 15 th highest $L_{Amax} \leq 45\text{dB}$	26.1dB $L_{Aeq, \text{night}}$ 39.9dB $L_{Amax, \text{night}}$	Compliant
13	Living room	$\leq 35\text{dB } L_{Aeq, \text{day}}$	26.8dB $L_{Aeq, \text{day}}$	Compliant
	Bedroom	$\leq 30\text{dB } L_{Aeq, \text{night}}$ 15 th highest $L_{Amax} \leq 45\text{dB}$	18.4dB $L_{Aeq, \text{night}}$ 39.6dB $L_{Amax, \text{night}}$	Compliant
4	Living room	$\leq 35\text{dB } L_{Aeq, \text{day}}$	22.6dB $L_{Aeq, \text{day}}$	Compliant
	Bedroom	$\leq 30\text{dB } L_{Aeq, \text{night}}$ 15 th highest $L_{Amax} \leq 45\text{dB}$	16.7dB $L_{Aeq, \text{night}}$ 31.7dB $L_{Amax, \text{night}}$	Compliant

Table 9 – Summary of results of all acoustic testing



Appendix A – Glossary of Acoustic Terms

Decibel (dB)

This is the unit used to measure sound. The human ear has an approximately logarithmic response to acoustic pressure over a very large dynamic range (typically 20 micro Pascal to 100 Pascal).

dB (A)

This is a measure of the overall noise level of sound across the audible spectrum with a frequency weighting (i.e. A-weighting) to compensate for the sensitivity of the human ear to sound of different frequencies. The A-weighting curve is implemented in sound level meters using an electronic filter that approximately corresponds to the frequency response of the ear.

Octave Band Noise Level

The human ear is sensitive to sound over a range of frequencies between approximately 20Hz to 20kHz. The ear is also generally more sensitive to medium and high frequencies than to low frequencies. In order to define the frequency content of a noise, the spectrum can be divided into frequency bands. The most commonly used frequency bands are octave bands, in which the mid-frequency of each band is twice that of the band below it.

L_{Aeq}

This is the equivalent steady sound level in dB(A) containing the same acoustic energy as the actual fluctuating sound level over a given time period.

Reverberation Time (RT or sometimes T_{30} or T_{60})

This is the time taken for the reverberant sound energy in an enclosure to decay one millionth of its equilibrium value, i.e. by 60dB, after the source has been switched off. The reverberation time is frequency dependent and it is customary to measure its value in octave or one-third octave bands. Reverberation occurs when sound waves are repeatedly reflected from each surface of the room.

Sound Reduction Index (SRI)

Difference measured between the amount of energy flowing towards the wall in the source room and the total amount of energy entering the receiving room (usual range 100 - 3150Hz for one third octave band values). The SRI varies with frequency and is measured in a laboratory in either octave or one-third octave bands.

$SRI = L_1 - L_2 + 10 \log (S/A)$, where:

L_1 = Noise level in the source room

L_2 = Noise levels in the receiving room

S = Surface area of test specimen

A = Equivalent acoustic absorption area in the receiving room

Weighted Sound Reduction Index (R_w)

This is a weighted single figure descriptor of the sound insulation performance of a partition measured under laboratory conditions. The procedure used to quantify the R_w is to compare the sound reduction index (SRI) in each of the one-third octave bands from 100Hz to 3150Hz against a set of standard reference curves.



Appendix B – Noise Survey Data

Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Friday 1st August 2025							
15:15:00	12 K/L	00:30:00	45.7	25.9	26	19.6	19.3
15:45:00	12 K/L	00:30:00	39.5	19.6	20.1	19.5	19.3
16:15:00	12 K/L	00:30:00	41.8	25.6	28	19.6	19.3
16:45:00	12 K/L	00:30:00	52.2	25.2	22.4	19.6	19.3
17:15:00	12 K/L	00:30:00	43.2	23.6	22.7	19.6	19.3
17:45:00	12 K/L	00:30:00	35.1	19.9	20.8	19.5	19.3
18:15:00	12 K/L	00:30:00	44.4	20.4	20.7	19.5	19.3
18:45:00	12 K/L	00:30:00	40	20.3	19.9	19.5	19.3
19:15:00	12 K/L	00:30:00	39.3	21	19.9	19.5	19.3
19:45:00	12 K/L	00:30:00	40.2	22.8	24.4	19.6	19.3
20:15:00	12 K/L	00:30:00	49.9	21.7	22.7	19.6	19.3
20:45:00	12 K/L	00:30:00	35.6	19.8	21	19.5	19.3
21:15:00	12 K/L	00:30:00	36.2	19.7	20.1	19.5	19.3
21:45:00	12 K/L	00:30:00	46	18.8	19.7	19.5	19.3
22:15:00	12 K/L	00:30:00	48.3	20.5	20.9	19.5	19.3
22:45:00	12 K/L	00:30:00	49	21.7	19.7	19.5	19.3
23:15:00	12 K/L	00:30:00	49.5	18.3	19.7	19.5	19.3
23:45:00	12 K/L	00:30:00	49.8	19.2	19.7	19.5	19.3
Saturday 2nd August 2025							
00:15:00	12 K/L	00:30:00	26.2	16.8	19.7	19.5	19.3
00:45:00	12 K/L	00:30:00	55.5	21.7	19.7	19.5	19.3
01:15:00	12 K/L	00:30:00	38.9	16.7	19.7	19.5	19.3
01:45:00	12 K/L	00:30:00	49.1	17.7	19.7	19.5	19.3
02:15:00	12 K/L	00:30:00	49.8	17.9	19.7	19.5	19.3
02:45:00	12 K/L	00:30:00	43.7	20.6	19.7	19.5	19.3
03:15:00	12 K/L	00:30:00	49.5	17.9	19.7	19.5	19.3
03:45:00	12 K/L	00:30:00	37.5	16.5	19.7	19.5	19.3
04:15:00	12 K/L	00:30:00	47.3	17.3	19.7	19.5	19.3
04:45:00	12 K/L	00:30:00	23.5	16.4	19.7	19.5	19.3
05:15:00	12 K/L	00:30:00	48.6	17.7	19.7	19.5	19.3
05:45:00	12 K/L	00:30:00	51.9	18.8	19.7	19.5	19.3
06:15:00	12 K/L	00:30:00	47.8	17.6	19.7	19.5	19.3
06:45:00	12 K/L	00:30:00	38	17.8	19.7	19.5	19.3
07:15:00	12 K/L	00:30:00	28.8	17.5	19.7	19.5	19.3
07:45:00	12 K/L	00:30:00	39.3	17.5	19.7	19.5	19.3
08:15:00	12 K/L	00:30:00	33.5	19.7	20.9	19.6	19.3
08:45:00	12 K/L	00:30:00	37.3	18.9	20.5	19.6	19.3
09:15:00	12 K/L	00:30:00	45.8	28.2	31.6	24.8	19.4
09:45:00	12 K/L	00:30:00	48.4	30.6	32	31.2	19.5
10:15:00	12 K/L	00:30:00	40.6	18.8	20	19.5	19.3
10:45:00	12 K/L	00:30:00	44	20.2	21.2	19.5	19.3
11:15:00	12 K/L	00:30:00	48.6	19.4	19.8	19.5	19.3
11:45:00	12 K/L	00:30:00	34.8	19.4	21.5	19.6	19.3
12:15:00	12 K/L	00:30:00	56.3	22	20.7	19.5	19.3
12:45:00	12 K/L	00:30:00	54.5	21.2	19.8	19.5	19.3



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
13:15:00	12 K/L	00:30:00	55.6	21.6	20.4	19.5	19.3
13:45:00	12 K/L	00:30:00	43.3	20	20.6	19.5	19.3
14:15:00	12 K/L	00:30:00	46.3	18.7	19.7	19.5	19.3
14:45:00	12 K/L	00:30:00	52.2	20	19.7	19.5	19.3
15:15:00	12 K/L	00:30:00	53	21.4	19.7	19.5	19.3
15:45:00	12 K/L	00:30:00	37.5	18.8	19.7	19.5	19.3
16:15:00	12 K/L	00:30:00	43.2	18.6	19.7	19.5	19.3
16:45:00	12 K/L	00:30:00	48.1	20.2	20.2	19.5	19.3
17:15:00	12 K/L	00:30:00	50.6	22.6	20.2	19.5	19.3
17:45:00	12 K/L	00:30:00	52.4	22.1	20.2	19.5	19.3
18:15:00	12 K/L	00:30:00	51.3	22.3	21.9	19.6	19.3
18:45:00	12 K/L	00:30:00	51	21.7	21.4	19.6	19.3
19:15:00	12 K/L	00:30:00	49	19.8	19.7	19.5	19.3
19:45:00	12 K/L	00:30:00	50.2	21.5	20.1	19.5	19.3
20:15:00	12 K/L	00:30:00	49.3	20.1	19.7	19.5	19.3
20:45:00	12 K/L	00:30:00	48.9	20.9	19.7	19.5	19.3
21:15:00	12 K/L	00:30:00	48.6	20.4	19.7	19.5	19.3
21:45:00	12 K/L	00:30:00	49.9	22	21.4	19.7	19.3
22:15:00	12 K/L	00:30:00	49.3	20.4	19.7	19.5	19.3
22:45:00	12 K/L	00:30:00	49.4	25.7	30.8	19.6	19.3
23:15:00	12 K/L	00:30:00	48.5	31.5	32.1	31.4	30.7
23:45:00	12 K/L	00:30:00	48.8	21.7	19.7	19.5	19.3
Sunday 3rd August 2025							
00:15:00	12 K/L	00:30:00	51.8	28.8	19.7	19.5	19.3
00:45:00	12 K/L	00:30:00	47.8	18.3	19.7	19.5	19.3
01:15:00	12 K/L	00:30:00	45.8	17.1	19.7	19.5	19.3
01:45:00	12 K/L	00:30:00	47.3	17.2	19.7	19.5	19.3
02:15:00	12 K/L	00:30:00	48.3	19	19.7	19.5	19.3
02:45:00	12 K/L	00:30:00	46.5	18.5	19.7	19.5	19.3
03:15:00	12 K/L	00:30:00	46.8	17.5	19.7	19.5	19.3
03:45:00	12 K/L	00:30:00	46	17.4	19.7	19.5	19.3
04:15:00	12 K/L	00:30:00	26.7	16.7	19.7	19.5	19.3
04:45:00	12 K/L	00:30:00	27.6	16.6	19.7	19.5	19.3
05:15:00	12 K/L	00:30:00	24.2	16.4	19.7	19.5	19.3
05:45:00	12 K/L	00:30:00	23.7	16.7	19.7	19.5	19.3
06:15:00	12 K/L	00:30:00	26.2	17.1	19.7	19.5	19.3
06:45:00	12 K/L	00:30:00	37.6	18.5	20.2	19.5	19.3
07:15:00	12 K/L	00:30:00	29.9	18.1	19.7	19.5	19.3
07:45:00	12 K/L	00:30:00	32.7	19.3	21	19.6	19.3
08:15:00	12 K/L	00:30:00	28.8	19.3	21.6	19.5	19.3
08:45:00	12 K/L	00:30:00	27.2	18	19.7	19.5	19.3
09:15:00	12 K/L	00:30:00	39	24.5	24.4	19.6	19.3
09:45:00	12 K/L	00:30:00	29.5	18.1	19.7	19.5	19.3
10:15:00	12 K/L	00:30:00	30.6	17.9	19.7	19.5	19.3
10:45:00	12 K/L	00:30:00	32.4	19.9	21.2	19.7	19.3
11:15:00	12 K/L	00:30:00	37.4	20.7	22.1	19.6	19.3
11:45:00	12 K/L	00:30:00	33.9	19.5	20.7	19.5	19.3
12:15:00	12 K/L	00:30:00	35.5	18.7	20.1	19.5	19.3
12:45:00	12 K/L	00:30:00	42.9	23.4	30.1	19.6	19.3



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
13:15:00	12 K/L	00:30:00	52.1	32	32.5	31.8	30.9
13:45:00	12 K/L	00:30:00	33	19.4	19.7	19.5	19.3
14:15:00	12 K/L	00:30:00	49.3	19.8	20.2	19.5	19.3
14:45:00	12 K/L	00:30:00	50.8	21.8	20	19.5	19.3
15:15:00	12 K/L	00:30:00	35.9	18.8	20.4	19.5	19.3
15:45:00	12 K/L	00:30:00	50	20	20.7	19.5	19.3
16:15:00	12 K/L	00:30:00	33.8	18.8	20.2	19.5	19.3
16:45:00	12 K/L	00:30:00	36	19	20.4	19.5	19.3
17:15:00	12 K/L	00:30:00	34	18.7	19.8	19.5	19.3
17:45:00	12 K/L	00:30:00	42.3	18.9	20.1	19.5	19.3
18:15:00	12 K/L	00:30:00	36.1	19.8	22.1	19.6	19.3
18:45:00	12 K/L	00:30:00	49.2	20	19.7	19.5	19.3
19:15:00	12 K/L	00:30:00	30.3	17.9	19.7	19.5	19.3
19:45:00	12 K/L	00:30:00	36.5	17.8	19.7	19.5	19.3
20:15:00	12 K/L	00:30:00	34.9	17.5	19.7	19.5	19.3
20:45:00	12 K/L	00:30:00	29.7	17.5	19.7	19.5	19.3
21:15:00	12 K/L	00:30:00	33.6	17.2	19.7	19.5	19.3
21:45:00	12 K/L	00:30:00	28.2	17.1	19.7	19.5	19.3
22:15:00	12 K/L	00:30:00	31.1	17.9	19.7	19.5	19.3
22:45:00	12 K/L	00:30:00	30.1	17	19.7	19.5	19.3
23:15:00	12 K/L	00:30:00	31.1	16.5	19.7	19.5	19.3
23:45:00	12 K/L	00:30:00	45.7	19.4	20.1	19.6	19.3
Monday 4th August 2025							
00:15:00	12 K/L	00:30:00	29.8	18.2	20	19.5	19.3
00:45:00	12 K/L	00:30:00	48	17.3	19.7	19.5	19.3
01:15:00	12 K/L	00:30:00	49.3	17.6	19.7	19.5	19.3
01:45:00	12 K/L	00:30:00	19.5	16.4	19.7	19.5	19.3
02:15:00	12 K/L	00:30:00	21.4	16.5	19.7	19.5	19.3
02:45:00	12 K/L	00:30:00	48.8	24.6	30.9	19.6	19.3
03:15:00	12 K/L	00:30:00	49.4	31.4	32	31.3	30.6
03:45:00	12 K/L	00:30:00	32.3	18.3	19.7	19.5	19.3
04:15:00	12 K/L	00:30:00	51.4	19.1	19.7	19.5	19.3
04:45:00	12 K/L	00:30:00	22.9	16.9	19.7	19.5	19.3
05:15:00	12 K/L	00:30:00	28.1	16.6	19.7	19.5	19.3
05:45:00	12 K/L	00:30:00	52.8	23.6	24.4	19.6	19.3
06:15:00	12 K/L	00:30:00	55.7	21.9	19.7	19.5	19.3
06:45:00	12 K/L	00:30:00	29.5	20.1	22.1	19.6	19.3
07:15:00	12 K/L	00:30:00	35.2	23.6	27	19.7	19.3
07:45:00	12 K/L	00:30:00	36.9	25.5	29.7	22.6	19.4

Table B1 – Fully tabulated internal noise measurement results for Plot 12 Living Room



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Friday 1st August 2025							
15:15:00	12 BD	00:30:00	45.6	26.2	27	20	19.2
15:45:00	12 BD	00:30:00	37.3	21	22.7	19.8	19.1
16:15:00	12 BD	00:30:00	41.7	25.1	27.5	20.3	19.2
16:45:00	12 BD	00:30:00	40.4	22.4	23.5	19.9	19.1
17:15:00	12 BD	00:30:00	41.7	23.8	24.1	19.9	19.1
17:45:00	12 BD	00:30:00	49.1	21.6	22.8	19.9	19.1
18:15:00	12 BD	00:30:00	42.1	21.4	22.7	19.8	19.1
18:45:00	12 BD	00:30:00	40.3	21.3	22.1	19.7	19.1
19:15:00	12 BD	00:30:00	41.7	22.1	22.3	19.8	19.1
19:45:00	12 BD	00:30:00	41.6	23.5	24.9	19.9	19.1
20:15:00	12 BD	00:30:00	46.9	22.4	23.7	19.8	19.1
20:45:00	12 BD	00:30:00	41.8	21.1	22.9	19.7	19.1
21:15:00	12 BD	00:30:00	36.1	20.9	21.9	19.7	19.1
21:45:00	12 BD	00:30:00	44	20.7	21.7	19.7	19.1
22:15:00	12 BD	00:30:00	37	21.4	22.6	19.8	19.1
22:45:00	12 BD	00:30:00	42.3	22.1	21.6	19.7	19.1
23:15:00	12 BD	00:30:00	37.5	19.1	20.8	19.6	19.1
23:45:00	12 BD	00:30:00	35.2	19.7	21.4	19.6	19.1
Saturday 2nd August 2025							
00:15:00	12 BD	00:30:00	38.8	18.8	20.6	19.6	19.1
00:45:00	12 BD	00:30:00	41.6	18.9	20.6	19.6	19.1
01:15:00	12 BD	00:30:00	23.2	18.2	20.2	19.5	19.1
01:45:00	12 BD	00:30:00	26.3	18.3	20.3	19.5	19.1
02:15:00	12 BD	00:30:00	28.2	18.4	20.4	19.5	19.1
02:45:00	12 BD	00:30:00	42.9	20.8	20.8	19.6	19.1
03:15:00	12 BD	00:30:00	27.3	18.5	20.5	19.5	19.1
03:45:00	12 BD	00:30:00	40	18.2	20.2	19.5	19.1
04:15:00	12 BD	00:30:00	25	18.2	20.2	19.5	19.1
04:45:00	12 BD	00:30:00	23.4	18.3	20.3	19.5	19.1
05:15:00	12 BD	00:30:00	33.3	18.2	20.2	19.5	19.1
05:45:00	12 BD	00:30:00	40.1	18.3	20.3	19.5	19.1
06:15:00	12 BD	00:30:00	25.1	18.3	20.4	19.5	19.1
06:45:00	12 BD	00:30:00	43.5	19.4	20.8	19.6	19.1
07:15:00	12 BD	00:30:00	28.8	19.1	20.9	19.6	19.1
07:45:00	12 BD	00:30:00	33.3	18.7	20.6	19.6	19.1
08:15:00	12 BD	00:30:00	36.5	23.4	25.7	23.1	19.5
08:45:00	12 BD	00:30:00	36.1	23.2	25.8	21.5	19.2
09:15:00	12 BD	00:30:00	36.5	24.4	27.7	22.8	19.3
09:45:00	12 BD	00:30:00	39.9	29.1	30.9	29.5	20.2
10:15:00	12 BD	00:30:00	36.6	21.4	22.8	20.7	19.3
10:45:00	12 BD	00:30:00	37.2	22.4	23.3	20.9	19.4
11:15:00	12 BD	00:30:00	41.8	22.1	23.2	21.1	19.5
11:45:00	12 BD	00:30:00	37	21.9	23.4	20.9	19.3
12:15:00	12 BD	00:30:00	42.1	22	23.6	20.8	19.3
12:45:00	12 BD	00:30:00	59.3	24.6	22.4	20.4	19.2
13:15:00	12 BD	00:30:00	33.7	21.3	22.7	20.4	19.2
13:45:00	12 BD	00:30:00	57.3	24.5	22.7	20.4	19.2
14:15:00	12 BD	00:30:00	32.7	20.4	21.8	20.1	19.2



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
14:45:00	12 BD	00:30:00	35.5	20.7	22	20.1	19.2
15:15:00	12 BD	00:30:00	36.1	21	22.3	20.2	19.2
15:45:00	12 BD	00:30:00	38.9	21.4	22.3	20.2	19.2
16:15:00	12 BD	00:30:00	35	20.6	22	20.1	19.2
16:45:00	12 BD	00:30:00	36.6	21	22.5	20.2	19.2
17:15:00	12 BD	00:30:00	37	20.9	22.4	20.2	19.2
17:45:00	12 BD	00:30:00	35.8	21.1	22.6	20.3	19.2
18:15:00	12 BD	00:30:00	37.6	21.6	23.2	20.3	19.2
18:45:00	12 BD	00:30:00	38.2	21.5	23	20.3	19.2
19:15:00	12 BD	00:30:00	33.7	20.6	22.2	20	19.2
19:45:00	12 BD	00:30:00	33.2	20.8	22.5	20	19.2
20:15:00	12 BD	00:30:00	34.5	20.7	22.2	20.1	19.2
20:45:00	12 BD	00:30:00	35.3	20.4	21.6	19.8	19.1
21:15:00	12 BD	00:30:00	33.2	21.2	22.8	20.9	19.3
21:45:00	12 BD	00:30:00	37.6	24.4	25.6	24.2	22.5
22:15:00	12 BD	00:30:00	36.1	20.7	21.9	19.8	19.1
22:45:00	12 BD	00:30:00	28.5	21.7	25.4	20	19.2
23:15:00	12 BD	00:30:00	34.7	31	31.9	31.1	28.7
23:45:00	12 BD	00:30:00	32.7	21.4	21.6	19.7	19.1
Sunday 3 rd August 2025							
00:15:00	12 BD	00:30:00	51.8	29.1	21.6	19.8	19.1
00:45:00	12 BD	00:30:00	35.1	19.3	20.8	19.6	19.1
01:15:00	12 BD	00:30:00	28.6	19.2	20.9	19.6	19.1
01:45:00	12 BD	00:30:00	25.1	18.8	20.7	19.6	19.1
02:15:00	12 BD	00:30:00	28.9	19.2	20.9	19.6	19.1
02:45:00	12 BD	00:30:00	36	20.2	21.6	19.7	19.1
03:15:00	12 BD	00:30:00	28	20.1	21.9	19.9	19.1
03:45:00	12 BD	00:30:00	25.3	19.4	21.2	19.7	19.1
04:15:00	12 BD	00:30:00	30.7	19.1	20.9	19.6	19.1
04:45:00	12 BD	00:30:00	24.1	19	20.8	19.6	19.1
05:15:00	12 BD	00:30:00	24.5	19.1	20.9	19.6	19.1
05:45:00	12 BD	00:30:00	26	18.9	20.9	19.6	19.1
06:15:00	12 BD	00:30:00	31.3	19.1	20.9	19.6	19.1
06:45:00	12 BD	00:30:00	46.4	20.5	22	19.8	19.1
07:15:00	12 BD	00:30:00	32.6	20.1	21.9	19.8	19.1
07:45:00	12 BD	00:30:00	39.9	20.9	22.6	19.9	19.1
08:15:00	12 BD	00:30:00	33.6	20.4	22.8	19.8	19.1
08:45:00	12 BD	00:30:00	30.6	20.5	22.4	20.2	19.2
09:15:00	12 BD	00:30:00	37.5	24.1	24.4	20.5	19.2
09:45:00	12 BD	00:30:00	32.3	20	22.1	19.7	19.1
10:15:00	12 BD	00:30:00	33.7	20	21.8	19.7	19.1
10:45:00	12 BD	00:30:00	30.9	23.4	25.4	23.3	19.8
11:15:00	12 BD	00:30:00	38.6	23.2	25.8	21.2	19.3
11:45:00	12 BD	00:30:00	34.4	21.2	22.9	20	19.2
12:15:00	12 BD	00:30:00	35.3	20.6	22.3	19.8	19.1
12:45:00	12 BD	00:30:00	36.1	21.1	23.9	19.9	19.1
13:15:00	12 BD	00:30:00	34.8	28.5	30.1	28.5	25.6
13:45:00	12 BD	00:30:00	31.2	20.6	22	19.8	19.1
14:15:00	12 BD	00:30:00	35.5	21	22.6	20.3	19.2



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
14:45:00	12 BD	00:30:00	39.1	20.7	22.2	19.9	19.1
15:15:00	12 BD	00:30:00	41.5	20.6	21.9	19.8	19.1
15:45:00	12 BD	00:30:00	33.5	20.3	21.8	19.8	19.1
16:15:00	12 BD	00:30:00	37.8	20.4	21.9	19.8	19.1
16:45:00	12 BD	00:30:00	36.1	20.6	22.1	19.9	19.1
17:15:00	12 BD	00:30:00	35.8	20.6	21.9	19.9	19.1
17:45:00	12 BD	00:30:00	35.7	25.8	33.2	19.9	19.1
18:15:00	12 BD	00:30:00	39.6	30.3	33.8	26.3	19.4
18:45:00	12 BD	00:30:00	44	30.1	33.7	26.1	19.4
19:15:00	12 BD	00:30:00	34.3	29.9	33.6	25.9	19.3
19:45:00	12 BD	00:30:00	38.4	29.9	33.6	25.8	19.3
20:15:00	12 BD	00:30:00	37	29.9	33.6	25.1	19.3
20:45:00	12 BD	00:30:00	34.9	29.8	33.6	25.3	19.3
21:15:00	12 BD	00:30:00	36.2	29.8	33.6	22.9	19.3
21:45:00	12 BD	00:30:00	35.4	29.8	33.6	23.3	19.2
22:15:00	12 BD	00:30:00	34.9	29.8	33.6	24.2	19.3
22:45:00	12 BD	00:30:00	35.2	29.7	33.6	22	19.2
23:15:00	12 BD	00:30:00	34.8	29.7	33.6	21.7	19.2
23:45:00	12 BD	00:30:00	35.9	30.2	33.7	25.6	21
Monday 4th August 2025							
00:15:00	12 BD	00:30:00	35.7	29.9	33.6	25.5	19.3
00:45:00	12 BD	00:30:00	33.2	29.5	33.6	21.4	19.2
01:15:00	12 BD	00:30:00	33.3	29.5	33.6	21.2	19.2
01:45:00	12 BD	00:30:00	33	29.4	33.6	21.3	19.2
02:15:00	12 BD	00:30:00	33.1	29.4	33.6	21.5	19.2
02:45:00	12 BD	00:30:00	33.6	29.6	33.5	25.4	19.3
03:15:00	12 BD	00:30:00	35.2	32.6	34.9	31.6	28.8
03:45:00	12 BD	00:30:00	35	29.4	33.1	21.6	19.2
04:15:00	12 BD	00:30:00	33.8	29.2	32.9	21.7	19.2
04:45:00	12 BD	00:30:00	32.8	29.2	32.8	21.5	19.2
05:15:00	12 BD	00:30:00	33.8	29.1	32.7	21	19.2
05:45:00	12 BD	00:30:00	37.6	29.5	32.8	25.9	19.4
06:15:00	12 BD	00:30:00	41.5	29	32.7	22.5	19.4
06:45:00	12 BD	00:30:00	33.2	28.9	32.6	23.9	19.9

Table B2 – Fully tabulated internal noise measurement results for Plot 12 Bedroom



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Friday 1st August 2025							
15:45:00	13 KL	00:30:00	48.8	27.4	27.6	19.8	17.4
16:15:00	13 KL	00:30:00	52	33.2	34.7	20.2	17.5
16:45:00	13 KL	00:30:00	47.7	27.7	28.5	18.9	17.3
17:15:00	13 KL	00:30:00	53.8	33.3	33	20.2	17.8
17:45:00	13 KL	00:30:00	51.5	28.2	28.4	20	17.7
18:15:00	13 KL	00:30:00	50.9	29.7	28.5	18.8	16.9
18:45:00	13 KL	00:30:00	51.7	28.3	25	18.2	17
19:15:00	13 KL	00:30:00	52.1	30.1	27.1	19.2	17.8
19:45:00	13 KL	00:30:00	51.2	30.9	30.7	19.3	17
20:15:00	13 KL	00:30:00	49.6	29.4	29.8	18.9	16.9
20:45:00	13 KL	00:30:00	50.5	29	27.3	18.9	16.9
21:15:00	13 KL	00:30:00	49	27.5	26.8	17.2	16.3
21:45:00	13 KL	00:30:00	48.2	26.6	24.7	17.1	16.2
22:15:00	13 KL	00:30:00	48.7	27.1	25.8	17.2	16.3
22:45:00	13 KL	00:30:00	52.2	27.9	22.2	17.5	16.3
23:15:00	13 KL	00:30:00	37.3	18.5	18.1	16.6	15.9
23:45:00	13 KL	00:30:00	47.8	23	19	16.5	15.9
Saturday 2nd August 2025							
00:15:00	13 KL	00:30:00	44.7	21.1	17.1	16.4	15.8
00:45:00	13 KL	00:30:00	40.1	18.6	17	16.3	15.8
01:15:00	13 KL	00:30:00	27.4	16.4	16.7	16.2	15.6
01:45:00	13 KL	00:30:00	32.1	16.4	16.7	16.1	15.6
02:15:00	13 KL	00:30:00	44.4	20	17.2	16.1	15.6
02:45:00	13 KL	00:30:00	42.7	20.7	17.2	16.5	15.9
03:15:00	13 KL	00:30:00	37.4	17.3	17	16.3	15.7
03:45:00	13 KL	00:30:00	22.4	16.1	16.6	16.1	15.5
04:15:00	13 KL	00:30:00	25.3	16.2	16.7	16.1	15.5
04:45:00	13 KL	00:30:00	31.3	16.6	16.7	16.1	15.6
05:15:00	13 KL	00:30:00	27.3	17	18.2	16.3	15.8
05:45:00	13 KL	00:30:00	34.3	17.2	17.3	16.3	15.8
06:15:00	13 KL	00:30:00	30.8	17	17.7	16.5	15.8
06:45:00	13 KL	00:30:00	41.9	19.5	19.5	16.7	15.9
07:15:00	13 KL	00:30:00	38.4	20.9	20.5	19.2	18.7
07:45:00	13 KL	00:30:00	48.9	22.8	19.5	17.1	16.4
08:15:00	13 KL	00:30:00	46.5	25.1	23.8	18	16.9
08:45:00	13 KL	00:30:00	46.7	23.6	22.9	17.8	16.8
09:15:00	13 KL	00:30:00	53.2	26.3	25.3	19.5	18.4
09:45:00	13 KL	00:30:00	32.7	19.4	20.2	18	17.2
10:15:00	13 KL	00:30:00	51.8	25.6	22.5	18	16.9
10:45:00	13 KL	00:30:00	45.3	24.6	25.3	18.7	17.1
11:15:00	13 KL	00:30:00	52	28.1	27.3	24.9	20.3
11:45:00	13 KL	00:30:00	45.9	26.3	25.8	20.5	16.8
12:15:00	13 KL	00:30:00	46.5	25.4	26.9	18.4	17.1
12:45:00	13 KL	00:30:00	47.2	24.5	23.6	20.4	18.8
13:15:00	13 KL	00:30:00	48.5	26.6	26.4	19.8	18.2
13:45:00	13 KL	00:30:00	50.5	26.9	24.6	20	18.7
14:15:00	13 KL	00:30:00	49.8	24.3	23.5	19.7	18.2
14:45:00	13 KL	00:30:00	46	24.3	23.6	18.8	17.5



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
15:15:00	13 KL	00:30:00	54.9	28.5	24.3	18	17
15:45:00	13 KL	00:30:00	51.4	27.9	24.6	18.2	17
16:15:00	13 KL	00:30:00	46.9	24.7	24.5	18.8	17.4
16:45:00	13 KL	00:30:00	44.9	23.6	24.3	19.2	17.5
17:15:00	13 KL	00:30:00	49.7	26.8	25.1	19.7	17.8
17:45:00	13 KL	00:30:00	50.5	28.1	26	19.6	17.8
18:15:00	13 KL	00:30:00	42.4	24.5	26.2	19.5	17.9
18:45:00	13 KL	00:30:00	47.3	26.6	27.4	20	17.9
19:15:00	13 KL	00:30:00	48.6	26.3	24.6	18.3	17.1
19:45:00	13 KL	00:30:00	46.6	24.6	25.5	18.7	17.3
20:15:00	13 KL	00:30:00	47.1	25.2	24.3	20.1	19.3
20:45:00	13 KL	00:30:00	52.2	25.9	23.1	17.7	16.8
21:15:00	13 KL	00:30:00	47.7	24.7	23.1	17.9	17.1
21:45:00	13 KL	00:30:00	46	25.4	24.7	18.2	17.4
22:15:00	13 KL	00:30:00	45.4	25.3	24.7	17.4	16.4
22:45:00	13 KL	00:30:00	42.3	20.9	21.1	17.1	16.2
23:15:00	13 KL	00:30:00	47.4	23.4	20	18.7	17.5
23:45:00	13 KL	00:30:00	44.1	21.2	20	17.6	16.8
Sunday 3 rd August 2025							
00:15:00	13 KL	00:30:00	58.8	35.5	20.1	17.9	16.6
00:45:00	13 KL	00:30:00	48.9	23.6	18.6	17	16.3
01:15:00	13 KL	00:30:00	44.4	20.5	19.2	17.6	16.8
01:45:00	13 KL	00:30:00	29.9	17.8	18.2	17.4	16.8
02:15:00	13 KL	00:30:00	45.4	19.8	18.1	17.3	16.7
02:45:00	13 KL	00:30:00	49.7	25.5	24.6	18.2	17.1
03:15:00	13 KL	00:30:00	37.7	24.9	25.7	24.9	23.5
03:45:00	13 KL	00:30:00	32.4	20	22.3	18.1	17.3
04:15:00	13 KL	00:30:00	46.2	20.8	19.6	18.5	17.8
04:45:00	13 KL	00:30:00	28.7	18.6	19.2	18.4	17.6
05:15:00	13 KL	00:30:00	34.4	18.9	19.7	18.5	17.6
05:45:00	13 KL	00:30:00	33.8	20.4	21.2	19.5	18.4
06:15:00	13 KL	00:30:00	42	22.2	22	20.6	19.4
06:45:00	13 KL	00:30:00	44.6	23.8	23.4	20.8	19.6
07:15:00	13 KL	00:30:00	46.8	23.4	23.4	20.8	19.7
07:45:00	13 KL	00:30:00	48.5	26	25.3	21.7	20.4
08:15:00	13 KL	00:30:00	47	22.8	22.2	20	18.7
08:45:00	13 KL	00:30:00	32.1	20.7	22.3	19.8	18.8
09:15:00	13 KL	00:30:00	46.7	25	26.6	20.8	19
09:45:00	13 KL	00:30:00	51.8	27.9	25.9	21.1	20.2
10:15:00	13 KL	00:30:00	51.3	26.9	23.9	19.3	18.5
10:45:00	13 KL	00:30:00	48.3	25.5	25.6	21.4	19.4
11:15:00	13 KL	00:30:00	51.4	28.8	27.4	21.5	20.1
11:45:00	13 KL	00:30:00	50.5	28	27.5	20.6	18.7
12:15:00	13 KL	00:30:00	50.3	26.4	24.3	18.3	17.3
12:45:00	13 KL	00:30:00	54	28.3	26.1	18.9	17.4
13:15:00	13 KL	00:30:00	47.6	25.8	23.4	19.2	18
13:45:00	13 KL	00:30:00	49.9	24.9	23.6	18.4	17.3
14:15:00	13 KL	00:30:00	47.1	26.6	24.8	19.9	18.4
14:45:00	13 KL	00:30:00	50.3	25.3	23.2	19.2	17.8



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
15:15:00	13 KL	00:30:00	50.2	25.9	24.4	19.6	17.9
15:45:00	13 KL	00:30:00	48.4	24.4	23.7	19.5	17.9
16:15:00	13 KL	00:30:00	52.2	25.6	24.7	19.6	17.9
16:45:00	13 KL	00:30:00	45.7	24.3	24.2	19.1	17.7
17:15:00	13 KL	00:30:00	48.4	25.9	24.5	19.5	18.2
17:45:00	13 KL	00:30:00	47.6	25.2	24.2	19.7	18.2
18:15:00	13 KL	00:30:00	47	26.3	26.5	19.7	17.3
18:45:00	13 KL	00:30:00	50.4	27.8	25.3	23.2	22.4
19:15:00	13 KL	00:30:00	46.5	24.6	24.3	18.7	17.2
19:45:00	13 KL	00:30:00	50.3	24	21.1	17.3	16.5
20:15:00	13 KL	00:30:00	48.6	24.9	21.5	17.1	16.3
20:45:00	13 KL	00:30:00	47.4	25.1	24.9	17.2	16.4
21:15:00	13 KL	00:30:00	39.6	18.9	20	17	16.3
21:45:00	13 KL	00:30:00	48.5	23.5	20	16.8	16.2
22:15:00	13 KL	00:30:00	45	22	20	17.1	16.4
22:45:00	13 KL	00:30:00	49.1	22.9	19.7	17.5	16.7
23:15:00	13 KL	00:30:00	48.5	20.6	20.5	19.4	18.8
23:45:00	13 KL	00:30:00	30.1	18.2	18.9	17.6	17
Monday 4th August 2025							
00:15:00	13 KL	00:30:00	49.1	22.9	19.5	17.3	16.4
00:45:00	13 KL	00:30:00	30.4	18.1	18.4	16.9	16.3
01:15:00	13 KL	00:30:00	28.8	17.5	18.1	17.2	16.5
01:45:00	13 KL	00:30:00	28.9	17.6	18.2	17.3	16.6
02:15:00	13 KL	00:30:00	27.2	18.5	19.2	18.4	17.3
02:45:00	13 KL	00:30:00	31.8	19.1	19.8	18.8	17.7
03:15:00	13 KL	00:30:00	39.6	19.7	19.5	18.5	17.9
03:45:00	13 KL	00:30:00	34.4	18.6	18.7	17.7	16.9
04:15:00	13 KL	00:30:00	39.2	22.6	22.3	19.2	18.3
04:45:00	13 KL	00:30:00	33.8	19.2	19.8	18.9	18.2
05:15:00	13 KL	00:30:00	30.2	18.9	19.6	18.4	17.6
05:45:00	13 KL	00:30:00	49.4	25.6	27.5	21.5	18.7
06:15:00	13 KL	00:30:00	48.6	25.3	26.1	23.1	21.7
06:45:00	13 KL	00:30:00	48.7	27.2	27.9	24.6	23.3
07:15:00	13 KL	00:30:00	48.7	28.6	30.3	25.8	23.9
07:45:00	13 KL	00:30:00	46.7	30.2	32.8	27	25

Table B3 – Fully tabulated internal noise measurement results for Plot 13 Living Room

Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Friday 8th August 2025							
09:00:00	13 BD	00:30:00	45.1	23.3	25	19.7	19.3
09:30:00	13 BD	00:30:00	46.1	23.2	26	21.3	19.4
10:00:00	13 BD	00:30:00	43.2	22.4	24	19.8	19.4
10:30:00	13 BD	00:30:00	37.5	19.9	21.1	19.6	19.3
11:00:00	13 BD	00:30:00	42.4	20.6	21	19.6	19.3
11:30:00	13 BD	00:30:00	40.3	20.1	21.4	19.6	19.3
12:00:00	13 BD	00:30:00	58.2	24	21.1	19.6	19.3
12:30:00	13 BD	00:30:00	38.9	20.7	21	19.6	19.3
13:00:00	13 BD	00:30:00	53.7	23.4	23.2	19.6	19.3
13:30:00	13 BD	00:30:00	39.5	19.4	20.2	19.5	19.3



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
14:00:00	13 BD	00:30:00	52	21.9	20.5	19.5	19.3
14:30:00	13 BD	00:30:00	53.4	23	21.8	19.7	19.3
15:00:00	13 BD	00:30:00	37.1	19.3	19.8	19.5	19.3
15:30:00	13 BD	00:30:00	53.5	21.4	20.5	19.6	19.3
16:00:00	13 BD	00:30:00	38.4	19.9	20.6	19.6	19.3
16:30:00	13 BD	00:30:00	34.8	19.7	20.7	19.6	19.3
17:00:00	13 BD	00:30:00	41.3	19.4	20.2	19.5	19.3
17:30:00	13 BD	00:30:00	42.5	20	20.4	19.5	19.3
18:00:00	13 BD	00:30:00	46.8	21.7	22.2	19.6	19.3
18:30:00	13 BD	00:30:00	42.5	22.7	24.8	20.4	19.4
19:00:00	13 BD	00:30:00	42.9	20.5	21.1	19.7	19.3
19:30:00	13 BD	00:30:00	42.4	19.3	20	19.5	19.3
20:00:00	13 BD	00:30:00	41	19.5	19.7	19.5	19.3
20:30:00	13 BD	00:30:00	41.2	19.9	20.3	19.6	19.3
21:00:00	13 BD	00:30:00	40.3	18.9	19.7	19.5	19.3
21:30:00	13 BD	00:30:00	41.6	18.4	19.7	19.5	19.3
22:00:00	13 BD	00:30:00	40	20	20.6	19.6	19.3
22:30:00	13 BD	00:30:00	36.9	18.5	19.7	19.5	19.3
23:00:00	13 BD	00:30:00	37	18.1	19.7	19.5	19.3
23:30:00	13 BD	00:30:00	37	19	20.2	19.6	19.3
Saturday 9 th August 2025							
00:00:00	13 BD	00:30:00	38.1	18.9	19.9	19.5	19.3
00:30:00	13 BD	00:30:00	32.8	18.4	19.7	19.5	19.3
01:00:00	13 BD	00:30:00	29.8	17.6	19.7	19.5	19.3
01:30:00	13 BD	00:30:00	27.9	17.8	19.7	19.5	19.3
02:00:00	13 BD	00:30:00	41.2	17.6	19.7	19.5	19.3
02:30:00	13 BD	00:30:00	27.5	18.7	19.8	19.5	19.3
03:00:00	13 BD	00:30:00	31.1	17.3	19.7	19.5	19.3
03:30:00	13 BD	00:30:00	32.6	17.6	19.7	19.5	19.3
04:00:00	13 BD	00:30:00	30.6	17.9	19.7	19.5	19.3
04:30:00	13 BD	00:30:00	20.3	17.3	19.7	19.5	19.3
05:00:00	13 BD	00:30:00	21.3	17.1	19.7	19.5	19.3
05:30:00	13 BD	00:30:00	23	17.5	19.7	19.5	19.3
06:00:00	13 BD	00:30:00	25.4	17.9	19.7	19.5	19.3
06:30:00	13 BD	00:30:00	30.9	17.5	19.7	19.5	19.3
07:00:00	13 BD	00:30:00	38.9	18.3	19.7	19.5	19.3
07:30:00	13 BD	00:30:00	43.4	18.3	19.7	19.5	19.3
08:00:00	13 BD	00:30:00	36.7	19.2	19.7	19.5	19.3
08:30:00	13 BD	00:30:00	38.1	18.8	19.7	19.5	19.3
09:00:00	13 BD	00:30:00	35.9	20.2	21.9	19.6	19.3
09:30:00	13 BD	00:30:00	56.5	23.1	20.7	19.6	19.3
10:00:00	13 BD	00:30:00	39	19.7	20.7	19.6	19.3
10:30:00	13 BD	00:30:00	56.6	22.8	20.4	19.5	19.3
11:00:00	13 BD	00:30:00	56	22.6	20.4	19.5	19.3
11:30:00	13 BD	00:30:00	55	21.8	20.4	19.5	19.3
12:00:00	13 BD	00:30:00	49.9	21	20.6	19.6	19.3
12:30:00	13 BD	00:30:00	55.3	23.9	22.4	19.7	19.3
13:00:00	13 BD	00:30:00	51.6	22.2	20.7	19.6	19.3
13:30:00	13 BD	00:30:00	35.4	19.3	20.5	19.6	19.3



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
14:00:00	13 BD	00:30:00	32.3	18.8	19.7	19.5	19.3
14:30:00	13 BD	00:30:00	52.5	21.3	20.8	19.6	19.3
15:00:00	13 BD	00:30:00	41.8	20.1	20.4	19.6	19.3
15:30:00	13 BD	00:30:00	36.3	20.4	21.2	19.7	19.3
16:00:00	13 BD	00:30:00	38.9	20.8	22.6	19.6	19.3
16:30:00	13 BD	00:30:00	35.3	19.3	20.3	19.5	19.3
17:00:00	13 BD	00:30:00	35.1	19.3	19.9	19.5	19.3
17:30:00	13 BD	00:30:00	36.7	20.3	20.9	19.6	19.3
18:00:00	13 BD	00:30:00	37.5	20.9	21.5	19.7	19.3
18:30:00	13 BD	00:30:00	42.2	20.3	20.5	19.5	19.3
19:00:00	13 BD	00:30:00	35.7	18.1	19.7	19.5	19.3
19:30:00	13 BD	00:30:00	41.7	19.8	21.2	19.6	19.3
20:00:00	13 BD	00:30:00	40.7	20.8	21.2	19.6	19.3
20:30:00	13 BD	00:30:00	41.3	19.3	20.3	19.5	19.3
21:00:00	13 BD	00:30:00	43.5	20.4	20.8	19.6	19.3
21:30:00	13 BD	00:30:00	37.4	19	20.4	19.6	19.3
22:00:00	13 BD	00:30:00	42.1	18.8	19.7	19.5	19.3
22:30:00	13 BD	00:30:00	41.2	19.9	20.7	19.6	19.3
23:00:00	13 BD	00:30:00	34.1	18	19.7	19.5	19.3
23:30:00	13 BD	00:30:00	37.3	18.9	20.2	19.6	19.3
Sunday 10th August 2025							
00:00:00	13 BD	00:30:00	37.7	19.9	20.5	19.6	19.3
00:30:00	13 BD	00:30:00	41.5	18.6	19.8	19.5	19.3
01:00:00	13 BD	00:30:00	28.7	18.1	19.9	19.5	19.3
01:30:00	13 BD	00:30:00	33.8	18.6	19.9	19.5	19.3
02:00:00	13 BD	00:30:00	31.9	17.7	19.7	19.5	19.3
02:30:00	13 BD	00:30:00	25.5	18.1	19.7	19.5	19.3
03:00:00	13 BD	00:30:00	26	17.1	19.7	19.5	19.3
03:30:00	13 BD	00:30:00	28.1	18.4	19.7	19.5	19.3
04:00:00	13 BD	00:30:00	26.3	18.9	20.1	19.6	19.3
04:30:00	13 BD	00:30:00	30.3	19.1	20.2	19.6	19.3
05:00:00	13 BD	00:30:00	26.3	18.1	19.7	19.5	19.3
05:30:00	13 BD	00:30:00	39.6	17.3	19.7	19.5	19.3
06:00:00	13 BD	00:30:00	25.4	17.2	19.7	19.5	19.3
06:30:00	13 BD	00:30:00	30.6	18.3	19.7	19.5	19.3
07:00:00	13 BD	00:30:00	36.5	18.3	19.7	19.5	19.3
07:30:00	13 BD	00:30:00	34.5	19.9	20.7	19.6	19.3
08:00:00	13 BD	00:30:00	35	20.6	21.5	19.6	19.3
08:30:00	13 BD	00:30:00	34.8	18.5	19.7	19.5	19.3
09:00:00	13 BD	00:30:00	34	18.4	19.7	19.5	19.3
09:30:00	13 BD	00:30:00	30.2	18.3	19.8	19.5	19.3
10:00:00	13 BD	00:30:00	28.6	18.3	19.7	19.5	19.3
10:30:00	13 BD	00:30:00	32.7	18.9	19.7	19.5	19.3
11:00:00	13 BD	00:30:00	36.9	19.8	20.7	19.6	19.3
11:30:00	13 BD	00:30:00	42.1	19.8	20.1	19.5	19.3
12:00:00	13 BD	00:30:00	55.8	23.2	20.6	19.6	19.3
12:30:00	13 BD	00:30:00	46.6	20.3	20.6	19.6	19.3
13:00:00	13 BD	00:30:00	49.1	20.7	21.1	19.7	19.3
13:30:00	13 BD	00:30:00	36	19.8	20.6	19.6	19.3



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
14:00:00	13 BD	00:30:00	45.4	20.5	21.1	19.9	19.4
14:30:00	13 BD	00:30:00	49.6	21.3	20.8	19.6	19.3
15:00:00	13 BD	00:30:00	35.9	19.9	21.1	19.6	19.3
15:30:00	13 BD	00:30:00	49.7	21.5	22	19.7	19.3
16:00:00	13 BD	00:30:00	33.3	19.6	20.4	19.6	19.3
16:30:00	13 BD	00:30:00	34.1	19.8	20.6	19.6	19.3
17:00:00	13 BD	00:30:00	46.9	19.3	19.7	19.5	19.3
17:30:00	13 BD	00:30:00	35.2	19.4	20.6	19.6	19.3
18:00:00	13 BD	00:30:00	34.6	19.7	20.7	19.6	19.3
18:30:00	13 BD	00:30:00	40.4	19.6	20.8	19.6	19.3
19:00:00	13 BD	00:30:00	38.3	19.9	21	19.6	19.3
19:30:00	13 BD	00:30:00	39.8	19.3	20.2	19.5	19.3
20:00:00	13 BD	00:30:00	38.9	19.3	20.1	19.5	19.3
20:30:00	13 BD	00:30:00	41.6	19.9	20	19.5	19.3
21:00:00	13 BD	00:30:00	42.9	20	20.6	19.6	19.3
21:30:00	13 BD	00:30:00	42.5	18	19.7	19.5	19.3
22:00:00	13 BD	00:30:00	39	19.2	20.1	19.6	19.3
22:30:00	13 BD	00:30:00	45.9	20.5	20.7	19.6	19.3
23:00:00	13 BD	00:30:00	36.4	19.4	20.5	19.6	19.3
23:30:00	13 BD	00:30:00	31.5	18.8	19.8	19.5	19.3
Monday 11th August 2025							
00:00:00	13 BD	00:30:00	42.2	19	19.9	19.5	19.3
00:30:00	13 BD	00:30:00	43.1	19.8	20.3	19.6	19.3
01:00:00	13 BD	00:30:00	38.3	18.4	19.7	19.5	19.3
01:30:00	13 BD	00:30:00	21.7	19.1	20.2	19.6	19.3
02:00:00	13 BD	00:30:00	37.8	19	20.2	19.6	19.3
02:30:00	13 BD	00:30:00	41	18.7	19.9	19.5	19.3
03:00:00	13 BD	00:30:00	40.3	17.9	19.7	19.5	19.3
03:30:00	13 BD	00:30:00	25.5	18.8	19.9	19.5	19.3
04:00:00	13 BD	00:30:00	39.5	19.3	20.2	19.6	19.3
04:30:00	13 BD	00:30:00	22.3	18.3	19.7	19.5	19.3
05:00:00	13 BD	00:30:00	40	18.8	20	19.5	19.3
05:30:00	13 BD	00:30:00	23.9	19	20.2	19.6	19.3
06:00:00	13 BD	00:30:00	37.8	19.8	20.5	19.6	19.3
06:30:00	13 BD	00:30:00	29.8	18.7	19.9	19.5	19.3
07:00:00	13 BD	00:30:00	41.2	19.2	19.9	19.5	19.3
07:30:00	13 BD	00:30:00	30.6	20.1	21.7	19.7	19.3
08:00:00	13 BD	00:30:00	32.8	19.9	21.3	19.6	19.3

Table B4 – Fully tabulated internal noise measurement results for Plot 13 Bedroom



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Friday 8th August 2025							
09:00:00	4 KL	00:30:00	45.5	24.3	26	21.5	20.6
09:30:00	4 KL	00:30:00	42.5	23.4	24.8	22.1	20.6
10:00:00	4 KL	00:30:00	46.9	24.3	25.2	21	20.5
10:30:00	4 KL	00:30:00	38.4	22.4	23.7	20.9	20.4
11:00:00	4 KL	00:30:00	50.8	23.3	23.1	21	20.5
11:30:00	4 KL	00:30:00	57.5	30.9	34.2	21.8	20.5
12:00:00	4 KL	00:30:00	34.2	21.5	22.1	20.8	20.5
12:30:00	4 KL	00:30:00	38.8	22.2	22.2	20.6	20.4
13:00:00	4 KL	00:30:00	51.8	23.9	24.4	20.8	20.5
13:30:00	4 KL	00:30:00	67.9	32.7	23.9	20.7	20.4
14:00:00	4 KL	00:30:00	49.1	22.5	22.1	20.6	20.4
14:30:00	4 KL	00:30:00	53.4	23.6	22.9	20.7	20.5
15:00:00	4 KL	00:30:00	37.8	21.8	21.8	20.6	20.4
15:30:00	4 KL	00:30:00	38.4	21.8	21.8	21	20.5
16:00:00	4 KL	00:30:00	37	21.5	21.5	20.6	20.4
16:30:00	4 KL	00:30:00	32.1	21.2	21.6	20.6	20.4
17:00:00	4 KL	00:30:00	34	21.4	21.8	20.5	20.3
17:30:00	4 KL	00:30:00	39.5	22.2	22.8	20.5	20.3
18:00:00	4 KL	00:30:00	44.3	23.3	23.5	20.9	20.4
18:30:00	4 KL	00:30:00	39.9	23.1	24.2	21.4	20.7
19:00:00	4 KL	00:30:00	31.4	21.5	22	20.7	20.4
19:30:00	4 KL	00:30:00	33.5	21.6	22.3	20.7	20.5
20:00:00	4 KL	00:30:00	36.2	22.1	22.1	20.7	20.5
20:30:00	4 KL	00:30:00	33.2	21	21	20.6	20.4
21:00:00	4 KL	00:30:00	38.8	21.6	21.3	20.6	20.4
21:30:00	4 KL	00:30:00	33.9	21.2	21	20.5	20.4
22:00:00	4 KL	00:30:00	39.7	22	21.6	20.7	20.5
22:30:00	4 KL	00:30:00	35.6	21.3	21.3	20.6	20.5
23:00:00	4 KL	00:30:00	37	21.2	21.2	20.6	20.4
23:30:00	4 KL	00:30:00	36.6	21.1	20.9	20.6	20.4
Saturday 9th August 2025							
00:00:00	4 KL	00:30:00	32	20.8	20.9	20.6	20.4
00:30:00	4 KL	00:30:00	34.7	21.1	20.9	20.6	20.5
01:00:00	4 KL	00:30:00	31.7	20.9	20.9	20.5	20.4
01:30:00	4 KL	00:30:00	30.5	20.8	20.8	20.5	20.3
02:00:00	4 KL	00:30:00	24.5	20.6	20.6	20.5	20.3
02:30:00	4 KL	00:30:00	30	20.9	21.3	20.6	20.4
03:00:00	4 KL	00:30:00	31.8	20.8	20.8	20.5	20.4
03:30:00	4 KL	00:30:00	27.2	20.8	20.9	20.5	20.4
04:00:00	4 KL	00:30:00	33.2	20.9	20.7	20.5	20.4
04:30:00	4 KL	00:30:00	24.3	20.7	20.7	20.5	20.4
05:00:00	4 KL	00:30:00	23.9	20.5	20.6	20.5	20.3
05:30:00	4 KL	00:30:00	29.1	20.8	20.9	20.6	20.4
06:00:00	4 KL	00:30:00	32.6	21	21.1	20.6	20.4
06:30:00	4 KL	00:30:00	31.4	20.8	20.9	20.6	20.5
07:00:00	4 KL	00:30:00	52.2	23.6	21.3	20.7	20.5
07:30:00	4 KL	00:30:00	39.8	21.2	21	20.7	20.5
08:00:00	4 KL	00:30:00	34.6	21.1	21	20.6	20.3



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
08:30:00	4 KL	00:30:00	32.9	20.9	20.9	20.5	20.4
09:00:00	4 KL	00:30:00	38.2	22.2	22.8	20.7	20.4
09:30:00	4 KL	00:30:00	38.7	21.6	21.3	20.5	20.4
10:00:00	4 KL	00:30:00	30.7	21.1	21.3	20.6	20.4
10:30:00	4 KL	00:30:00	34	21.5	21.8	20.6	20.3
11:00:00	4 KL	00:30:00	35.7	21.6	21.8	20.7	20.4
11:30:00	4 KL	00:30:00	33.6	21.5	21.9	20.7	20.5
12:00:00	4 KL	00:30:00	49.2	22.4	21.9	20.8	20.5
12:30:00	4 KL	00:30:00	39	22.4	23.3	20.9	20.6
13:00:00	4 KL	00:30:00	41.2	21.7	21.7	20.7	20.5
13:30:00	4 KL	00:30:00	31.6	21.4	22	20.8	20.5
14:00:00	4 KL	00:30:00	37.8	21.5	21.7	20.8	20.5
14:30:00	4 KL	00:30:00	35.3	21.4	21.7	20.7	20.5
15:00:00	4 KL	00:30:00	44.6	22	21.7	20.8	20.6
15:30:00	4 KL	00:30:00	35.6	22.3	22.7	21.1	20.6
16:00:00	4 KL	00:30:00	38	22.7	24.5	21	20.5
16:30:00	4 KL	00:30:00	50.5	22.2	21.7	20.7	20.5
17:00:00	4 KL	00:30:00	34.3	21.6	21.7	20.6	20.4
17:30:00	4 KL	00:30:00	39.1	22.3	22.5	20.9	20.5
18:00:00	4 KL	00:30:00	37.1	22.6	23.3	21.1	20.7
18:30:00	4 KL	00:30:00	39	22.6	22.7	20.6	20.4
19:00:00	4 KL	00:30:00	33.9	21	20.9	20.4	20.2
19:30:00	4 KL	00:30:00	34.7	21.4	21.8	20.5	20.3
20:00:00	4 KL	00:30:00	39.7	22.6	23.1	20.5	20.3
20:30:00	4 KL	00:30:00	37	21.1	21.5	20.4	20.2
21:00:00	4 KL	00:30:00	38	21.7	21.3	20.4	20.3
21:30:00	4 KL	00:30:00	36.7	20.9	20.7	20.3	20.2
22:00:00	4 KL	00:30:00	43.7	21.6	21.6	20.4	20.3
22:30:00	4 KL	00:30:00	34.7	21.4	21.3	20.4	20.3
23:00:00	4 KL	00:30:00	32.9	20.8	20.6	20.4	20.2
23:30:00	4 KL	00:30:00	31.7	20.8	20.6	20.3	20.2
Sunday 10 th August 2025							
00:00:00	4 KL	00:30:00	34.4	21.2	20.6	20.3	20.2
00:30:00	4 KL	00:30:00	24.7	20.4	20.5	20.3	20.2
01:00:00	4 KL	00:30:00	24.7	20.4	20.5	20.3	20.2
01:30:00	4 KL	00:30:00	27.8	20.5	20.4	20.3	20.2
02:00:00	4 KL	00:30:00	33.1	20.6	20.5	20.3	20.2
02:30:00	4 KL	00:30:00	23.9	20.4	20.5	20.3	20.2
03:00:00	4 KL	00:30:00	22.5	20.4	20.4	20.3	20.2
03:30:00	4 KL	00:30:00	27.9	20.5	20.4	20.3	20.2
04:00:00	4 KL	00:30:00	23.8	20.4	20.4	20.3	20.2
04:30:00	4 KL	00:30:00	33	20.6	20.4	20.3	20.2
05:00:00	4 KL	00:30:00	28.7	20.4	20.4	20.3	20.2
05:30:00	4 KL	00:30:00	27.1	20.5	20.5	20.3	20.2
06:00:00	4 KL	00:30:00	37.3	20.8	20.8	20.4	20.3
06:30:00	4 KL	00:30:00	32.7	21.5	21.8	20.4	20.3
07:00:00	4 KL	00:30:00	30.1	21.2	21.8	20.6	20.4
07:30:00	4 KL	00:30:00	37.5	21.2	21.3	20.4	20.3
08:00:00	4 KL	00:30:00	36.7	22	23.1	20.5	20.3



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
08:30:00	4 KL	00:30:00	40.5	21	20.9	20.4	20.3
09:00:00	4 KL	00:30:00	31.9	20.9	20.9	20.4	20.3
09:30:00	4 KL	00:30:00	31.1	20.6	20.8	20.4	20.2
10:00:00	4 KL	00:30:00	37.4	20.8	20.8	20.4	20.3
10:30:00	4 KL	00:30:00	31.8	20.8	20.8	20.4	20.2
11:00:00	4 KL	00:30:00	33	21	21.1	20.4	20.2
11:30:00	4 KL	00:30:00	39.4	21.2	21.4	20.3	20.2
12:00:00	4 KL	00:30:00	36.1	21.2	21.2	20.3	20.1
12:30:00	4 KL	00:30:00	32.2	21	21.2	20.4	20.2
13:00:00	4 KL	00:30:00	35.2	21.1	21.7	20.4	20.3
13:30:00	4 KL	00:30:00	31.8	21.3	22	20.6	20.2
14:00:00	4 KL	00:30:00	37	20.9	21.4	20.5	20.3
14:30:00	4 KL	00:30:00	37.2	21.2	21.4	20.4	20.2
15:00:00	4 KL	00:30:00	56.8	24	23	20.5	20.3
15:30:00	4 KL	00:30:00	35.6	21.9	22.8	20.7	20.3
16:00:00	4 KL	00:30:00	32.5	21.2	21.6	20.5	20.3
16:30:00	4 KL	00:30:00	34.1	21.5	22.2	20.4	20.2
17:00:00	4 KL	00:30:00	41.9	21	20.9	20.3	20.1
17:30:00	4 KL	00:30:00	31.3	21.3	22.3	20.6	20.3
18:00:00	4 KL	00:30:00	38.1	21.8	22.9	20.9	20.3
18:30:00	4 KL	00:30:00	33.9	21.1	21.9	20.4	20.2
19:00:00	4 KL	00:30:00	32.9	21.4	22.2	20.4	20.2
19:30:00	4 KL	00:30:00	32.8	21.3	21.8	20.5	20.3
20:00:00	4 KL	00:30:00	35.7	21.6	22.5	20.5	20.3
20:30:00	4 KL	00:30:00	36.2	21.6	21.5	20.3	20.2
21:00:00	4 KL	00:30:00	32.9	21.3	21.4	20.4	20.2
21:30:00	4 KL	00:30:00	29.9	20.6	20.9	20.3	20.1
22:00:00	4 KL	00:30:00	32.7	20.9	20.6	20.3	20.2
22:30:00	4 KL	00:30:00	48.3	21.6	20.9	20.3	20.2
23:00:00	4 KL	00:30:00	34.5	20.6	20.6	20.3	20.2
23:30:00	4 KL	00:30:00	35.6	20.5	20.4	20.2	20.1
Monday 11th August 2025							
00:00:00	4 KL	00:30:00	30.1	20.5	20.6	20.3	20.1
00:30:00	4 KL	00:30:00	34.3	20.6	20.4	20.2	20.1
01:00:00	4 KL	00:30:00	41.4	20.6	20.4	20.3	20.1
01:30:00	4 KL	00:30:00	22.6	20.3	20.3	20.2	20.1
02:00:00	4 KL	00:30:00	21	20.3	20.3	20.2	20.1
02:30:00	4 KL	00:30:00	27.5	20.3	20.3	20.2	20.1
03:00:00	4 KL	00:30:00	29.7	20.4	20.3	20.2	20.1
03:30:00	4 KL	00:30:00	22.4	20.3	20.3	20.2	20.1
04:00:00	4 KL	00:30:00	25.1	20.4	20.4	20.2	20.1
04:30:00	4 KL	00:30:00	23.5	20.4	20.4	20.3	20.2
05:00:00	4 KL	00:30:00	22.6	20.4	20.4	20.3	20.2
05:30:00	4 KL	00:30:00	25.2	20.5	20.6	20.4	20.2
06:00:00	4 KL	00:30:00	36.1	21.2	21	20.5	20.3
06:30:00	4 KL	00:30:00	37.6	21.6	21.8	20.7	20.5
07:00:00	4 KL	00:30:00	46.1	22.1	22.7	20.9	20.6
07:30:00	4 KL	00:30:00	35.8	22.2	22.9	21.1	20.7
08:00:00	4 KL	00:30:00	35.2	22.2	23.5	21.2	20.6



Table B5 – Fully tabulated internal noise measurement results for Plot 4 Living Room

Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
Friday 8th August 2025							
09:00:00	4 BD	00:30:00	43	21.6	22.7	18.1	16.8
09:30:00	4 BD	00:30:00	40	20	21.5	18.4	16.6
10:00:00	4 BD	00:30:00	41.3	20.4	21.2	17.3	16.5
10:30:00	4 BD	00:30:00	38.9	18.5	19.2	17.2	16.5
11:00:00	4 BD	00:30:00	53.8	20.7	18.7	17.2	16.5
11:30:00	4 BD	00:30:00	44.2	22.4	25.4	17.7	16.5
12:00:00	4 BD	00:30:00	37.9	18.1	18.6	17	16.4
12:30:00	4 BD	00:30:00	45.8	18.9	18.5	16.9	16.3
13:00:00	4 BD	00:30:00	59.4	24.1	20.9	17.1	16.4
13:30:00	4 BD	00:30:00	58.7	24.2	19.3	17.1	16.4
14:00:00	4 BD	00:30:00	51.7	19.9	18.6	17	16.4
14:30:00	4 BD	00:30:00	56.9	22.9	18.9	16.9	16.3
15:00:00	4 BD	00:30:00	33.7	17.9	18.1	16.8	16.3
15:30:00	4 BD	00:30:00	56.6	21.7	17.7	16.8	16.3
16:00:00	4 BD	00:30:00	35.5	17.5	17.5	16.7	16.3
16:30:00	4 BD	00:30:00	35.6	17.7	18	16.9	16.3
17:00:00	4 BD	00:30:00	32.7	17.7	18.1	16.9	16.3
17:30:00	4 BD	00:30:00	36.4	18.8	19.2	17	16.3
18:00:00	4 BD	00:30:00	42.4	19.6	20	17.1	16.3
18:30:00	4 BD	00:30:00	39	19.9	21.3	17.7	16.6
19:00:00	4 BD	00:30:00	32.6	17.7	18.1	16.8	16.3
19:30:00	4 BD	00:30:00	58.2	22.6	18.3	16.7	16.2
20:00:00	4 BD	00:30:00	34.6	18.1	18.1	16.7	16.1
20:30:00	4 BD	00:30:00	32.1	17.1	17.5	16.7	16.2
21:00:00	4 BD	00:30:00	35	17.8	17.6	16.8	16.3
21:30:00	4 BD	00:30:00	33.2	17.4	17.5	16.7	16.3
22:00:00	4 BD	00:30:00	42.3	18.1	17.8	16.7	16.2
22:30:00	4 BD	00:30:00	32.7	17.2	17.5	16.6	16.1
23:00:00	4 BD	00:30:00	33.6	17.2	17.2	16.6	16.1
23:30:00	4 BD	00:30:00	29.9	16.9	17.2	16.6	16
Saturday 9th August 2025							
00:00:00	4 BD	00:30:00	30.6	16.9	17.2	16.6	16.1
00:30:00	4 BD	00:30:00	31.3	17.1	17.2	16.6	16
01:00:00	4 BD	00:30:00	28.9	16.7	17.1	16.4	15.9
01:30:00	4 BD	00:30:00	26.9	16.6	17	16.4	15.9
02:00:00	4 BD	00:30:00	24.7	16.4	16.7	16.3	15.8
02:30:00	4 BD	00:30:00	31.7	16.7	17.1	16.5	15.9
03:00:00	4 BD	00:30:00	29.7	16.6	16.9	16.4	15.9
03:30:00	4 BD	00:30:00	29.5	16.5	16.9	16.4	15.8
04:00:00	4 BD	00:30:00	31.7	16.7	16.9	16.3	15.8
04:30:00	4 BD	00:30:00	18.6	16.4	16.7	16.3	15.8
05:00:00	4 BD	00:30:00	20.3	16.3	16.7	16.3	15.8
05:30:00	4 BD	00:30:00	21.8	16.4	16.8	16.4	15.8
06:00:00	4 BD	00:30:00	22.9	16.5	17	16.4	15.8
06:30:00	4 BD	00:30:00	30.9	16.7	17	16.4	15.9
07:00:00	4 BD	00:30:00	32.2	17.2	17.4	16.5	15.9



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
07:30:00	4 BD	00:30:00	29.7	16.9	17.2	16.5	15.9
08:00:00	4 BD	00:30:00	55.9	21.7	17.6	16.7	16.1
08:30:00	4 BD	00:30:00	54.4	20.1	17.3	16.6	16.1
09:00:00	4 BD	00:30:00	50.6	19.3	18.8	16.9	16.3
09:30:00	4 BD	00:30:00	54.3	20.7	18.3	16.7	16.2
10:00:00	4 BD	00:30:00	51.4	19	17.5	16.7	16.2
10:30:00	4 BD	00:30:00	53.3	21.3	18.3	17	16.3
11:00:00	4 BD	00:30:00	34.3	17.9	18.2	17.1	16.4
11:30:00	4 BD	00:30:00	51.6	19.4	18.1	16.9	16.3
12:00:00	4 BD	00:30:00	44.4	18.4	18.1	16.9	16.3
12:30:00	4 BD	00:30:00	55.9	23.9	19.9	17.1	16.4
13:00:00	4 BD	00:30:00	53.6	20.5	18.1	17	16.3
13:30:00	4 BD	00:30:00	48.5	18.5	18.2	17	16.3
14:00:00	4 BD	00:30:00	32.1	17.5	17.7	16.9	16.3
14:30:00	4 BD	00:30:00	51.4	19.3	18.1	17	16.4
15:00:00	4 BD	00:30:00	42.7	18.5	18	17	16.4
15:30:00	4 BD	00:30:00	35.5	18.3	18.4	17.1	16.4
16:00:00	4 BD	00:30:00	40.3	19	20	17.1	16.4
16:30:00	4 BD	00:30:00	34.4	17.8	17.8	16.9	16.3
17:00:00	4 BD	00:30:00	33.9	18	18.1	17	16.3
17:30:00	4 BD	00:30:00	55.4	21.4	18.4	17	16.3
18:00:00	4 BD	00:30:00	52	20.6	19.2	17.2	16.5
18:30:00	4 BD	00:30:00	39.1	18.7	18.6	17	16.4
19:00:00	4 BD	00:30:00	39	17.8	17.7	16.9	16.3
19:30:00	4 BD	00:30:00	32	17.7	18.1	16.8	16.2
20:00:00	4 BD	00:30:00	43	19.3	19.2	16.9	16.3
20:30:00	4 BD	00:30:00	30.2	17.2	17.6	16.6	16
21:00:00	4 BD	00:30:00	38.8	17.8	17.5	16.5	15.9
21:30:00	4 BD	00:30:00	34.7	17.2	17.2	16.6	16
22:00:00	4 BD	00:30:00	34.9	17.4	17.5	16.5	15.9
22:30:00	4 BD	00:30:00	35.2	17.6	17.7	16.5	15.9
23:00:00	4 BD	00:30:00	30.4	16.9	17	16.4	15.8
23:30:00	4 BD	00:30:00	30.8	16.9	17	16.4	15.8
Sunday 10th August 2025							
00:00:00	4 BD	00:30:00	32.7	17.3	17.1	16.4	15.8
00:30:00	4 BD	00:30:00	27.3	16.4	16.8	16.3	15.8
01:00:00	4 BD	00:30:00	29.4	16.4	16.8	16.3	15.8
01:30:00	4 BD	00:30:00	27.4	16.5	16.8	16.3	15.8
02:00:00	4 BD	00:30:00	30.5	16.5	16.7	16.2	15.8
02:30:00	4 BD	00:30:00	21.8	16.3	16.7	16.3	15.8
03:00:00	4 BD	00:30:00	17.8	16.3	16.7	16.2	15.8
03:30:00	4 BD	00:30:00	25.2	16.4	16.7	16.2	15.8
04:00:00	4 BD	00:30:00	33.1	16.3	16.7	16.2	15.8
04:30:00	4 BD	00:30:00	29.7	16.5	16.7	16.2	15.8
05:00:00	4 BD	00:30:00	27	16.3	16.7	16.2	15.8
05:30:00	4 BD	00:30:00	22.4	16.3	16.7	16.2	15.8
06:00:00	4 BD	00:30:00	44.9	16.9	16.8	16.3	15.8
06:30:00	4 BD	00:30:00	30	17.4	18	16.4	15.8
07:00:00	4 BD	00:30:00	40.5	17.4	18.2	16.6	15.9



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
07:30:00	4 BD	00:30:00	30.4	17.3	17.7	16.6	15.9
08:00:00	4 BD	00:30:00	50.1	19.9	19	16.9	16.2
08:30:00	4 BD	00:30:00	48.5	18.1	17.2	16.6	16
09:00:00	4 BD	00:30:00	53.1	19.9	17.4	16.6	16.1
09:30:00	4 BD	00:30:00	46.3	18	17.3	16.6	16
10:00:00	4 BD	00:30:00	43.3	17.3	17.2	16.6	16
10:30:00	4 BD	00:30:00	54.1	20.6	17.2	16.5	16
11:00:00	4 BD	00:30:00	51	19.8	17.7	16.6	16.1
11:30:00	4 BD	00:30:00	33.9	17.8	18	16.7	16.2
12:00:00	4 BD	00:30:00	46.2	18.9	18	16.7	16.2
12:30:00	4 BD	00:30:00	35.6	17.5	17.9	16.8	16.2
13:00:00	4 BD	00:30:00	43.8	17.7	17.9	16.7	16.1
13:30:00	4 BD	00:30:00	32.1	17.4	17.9	16.7	16.1
14:00:00	4 BD	00:30:00	33.5	17.3	17.7	16.7	16.1
14:30:00	4 BD	00:30:00	47.7	19.3	18	16.6	16
15:00:00	4 BD	00:30:00	38.2	17.8	18.4	16.7	16.1
15:30:00	4 BD	00:30:00	43.8	18.8	19.3	17	16.3
16:00:00	4 BD	00:30:00	31.7	17.5	17.7	16.7	16.2
16:30:00	4 BD	00:30:00	31.7	17.8	18.2	16.7	16.1
17:00:00	4 BD	00:30:00	37.8	17.5	17.6	16.8	16.3
17:30:00	4 BD	00:30:00	36.5	17.4	17.4	16.6	16.1
18:00:00	4 BD	00:30:00	56.8	21.8	18.3	17	16.3
18:30:00	4 BD	00:30:00	29.1	17.4	18.5	16.8	16.2
19:00:00	4 BD	00:30:00	49.8	19	18.6	16.7	16.2
19:30:00	4 BD	00:30:00	31.3	17.7	18.5	16.9	16.3
20:00:00	4 BD	00:30:00	31	17.6	18.2	16.9	16.3
20:30:00	4 BD	00:30:00	35.2	18.2	17.9	16.9	16.3
21:00:00	4 BD	00:30:00	30.8	17.6	17.8	16.6	15.9
21:30:00	4 BD	00:30:00	28.8	17	17.5	16.7	16.2
22:00:00	4 BD	00:30:00	25.1	16.6	17.1	16.5	15.9
22:30:00	4 BD	00:30:00	43.6	17.8	17.6	16.5	15.9
23:00:00	4 BD	00:30:00	31.4	16.7	17	16.4	15.9
23:30:00	4 BD	00:30:00	30.9	16.6	17	16.4	15.9
Monday 11th August 2025							
00:00:00	4 BD	00:30:00	26.9	16.6	17.1	16.5	15.9
00:30:00	4 BD	00:30:00	49	17.9	16.9	16.4	15.8
01:00:00	4 BD	00:30:00	33.3	16.5	16.9	16.4	15.8
01:30:00	4 BD	00:30:00	20	16.4	16.7	16.3	15.8
02:00:00	4 BD	00:30:00	24.5	16.3	16.7	16.3	15.8
02:30:00	4 BD	00:30:00	29.1	16.3	16.7	16.3	15.8
03:00:00	4 BD	00:30:00	29	16.4	16.7	16.2	15.8
03:30:00	4 BD	00:30:00	18.7	16.3	16.7	16.3	15.8
04:00:00	4 BD	00:30:00	24.1	16.4	16.9	16.3	15.8
04:30:00	4 BD	00:30:00	19.9	16.3	16.7	16.3	15.8
05:00:00	4 BD	00:30:00	24.9	16.4	16.7	16.3	15.8
05:30:00	4 BD	00:30:00	23.1	16.6	17	16.5	15.9
06:00:00	4 BD	00:30:00	33.1	17.2	17.2	16.5	16
06:30:00	4 BD	00:30:00	29.1	17.6	18.1	16.9	16.3
07:00:00	4 BD	00:30:00	41	18.3	18.5	17.1	16.4



Start	Plot	Time	L _{Amax}	L _{Aeq}	L _{A10}	L _{A50}	L _{A90}
07:30:00	4 BD	00:30:00	28.4	17.9	19	17.2	16.5
08:00:00	4 BD	00:30:00	46.7	18.8	19.6	17.5	16.7

Table B6 – Fully tabulated internal noise measurement results for Plot 4 Bedroom



Appendix C – Graphed Results

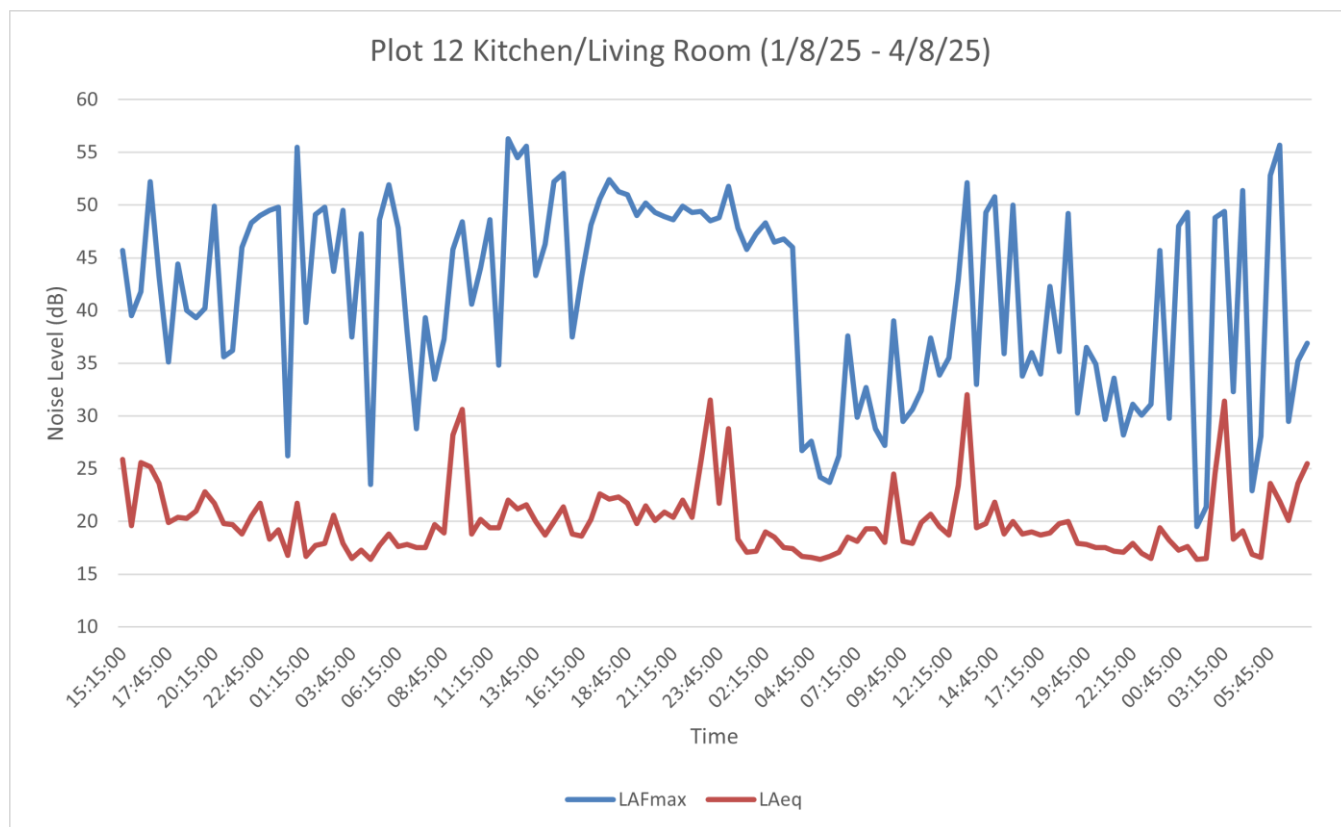


Figure C1 – Plot 12 Kitchen/Living Room graphed measurement data

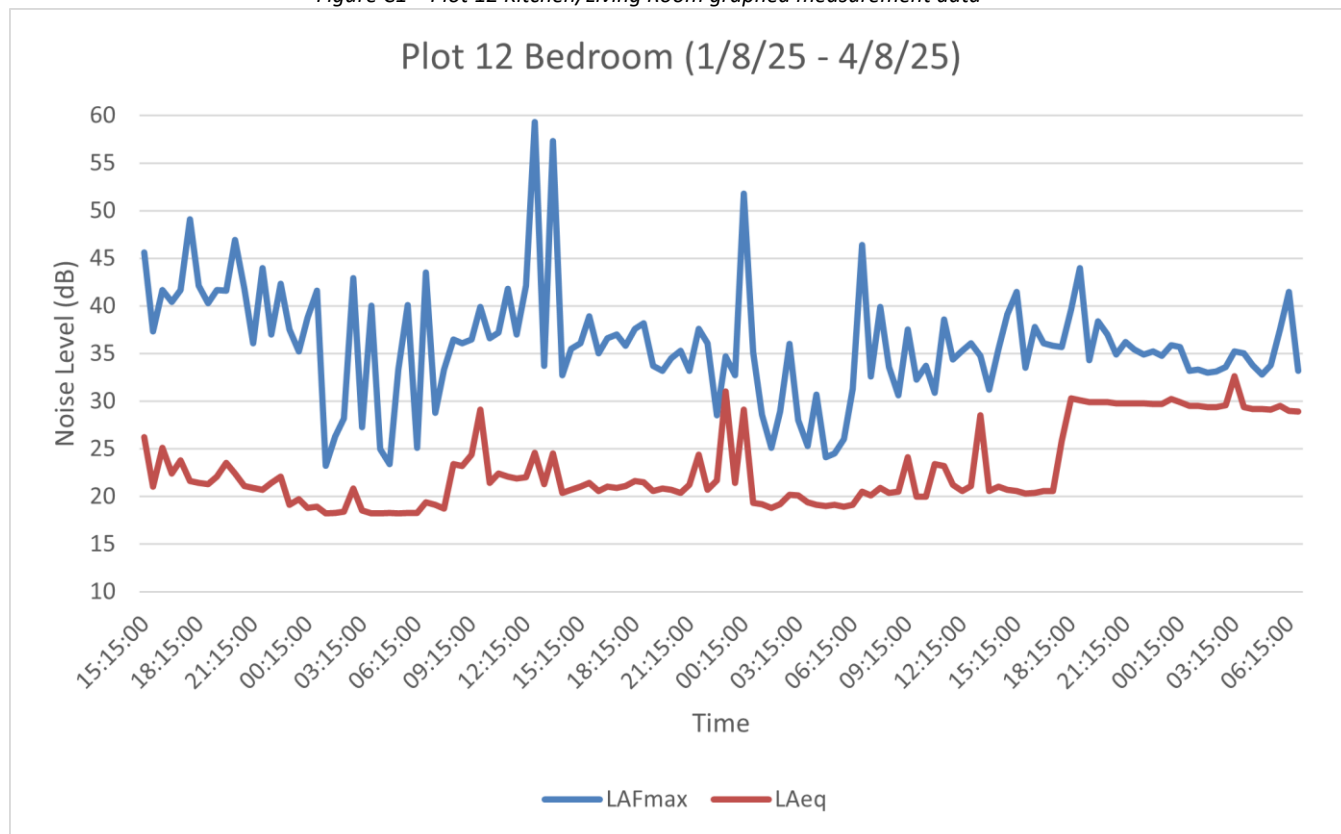


Figure C2 – Plot 12 Bedroom graphed measurement data

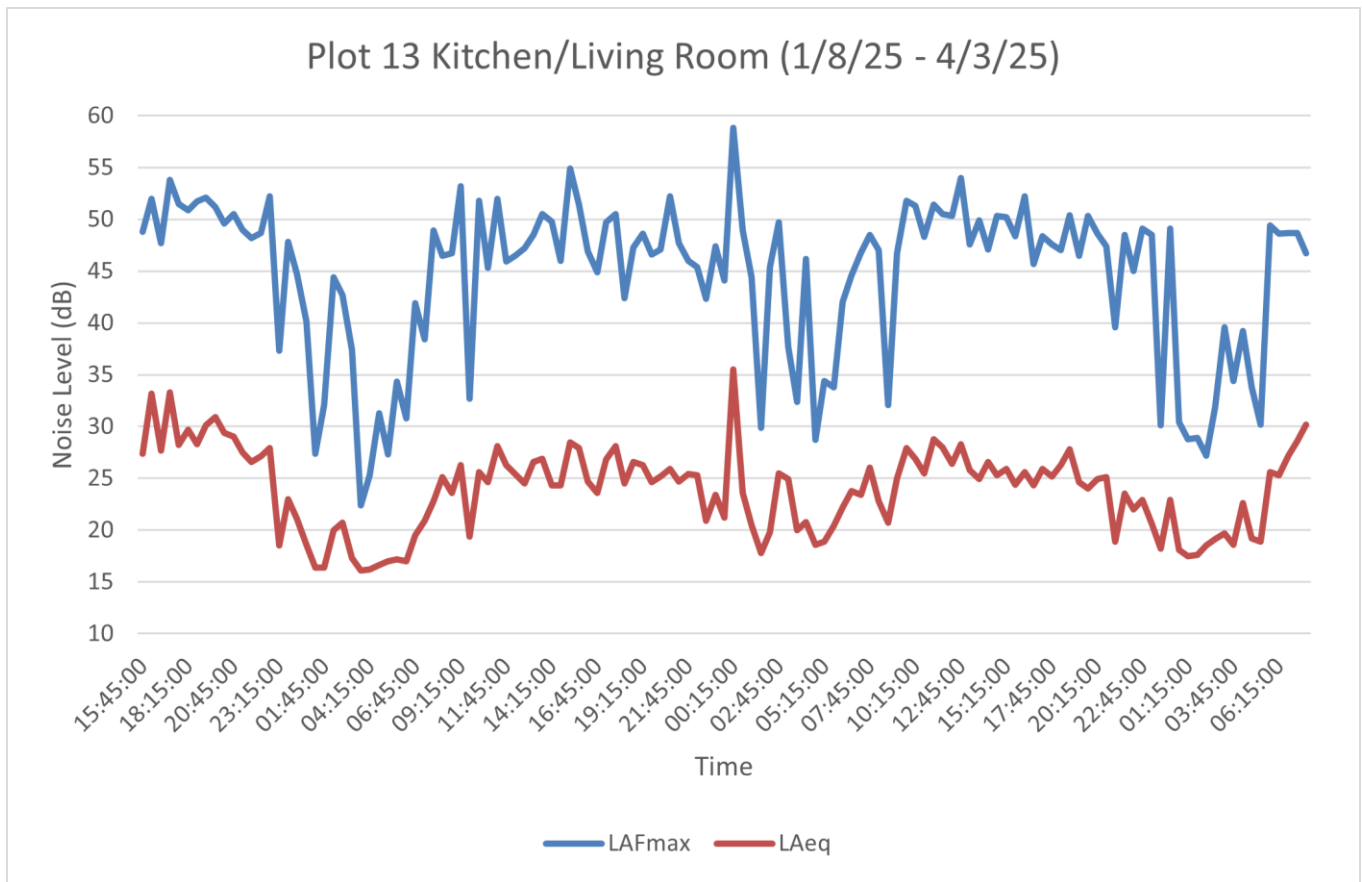


Figure C3 – Plot 13 Kitchen/Living Room graphed measurement data

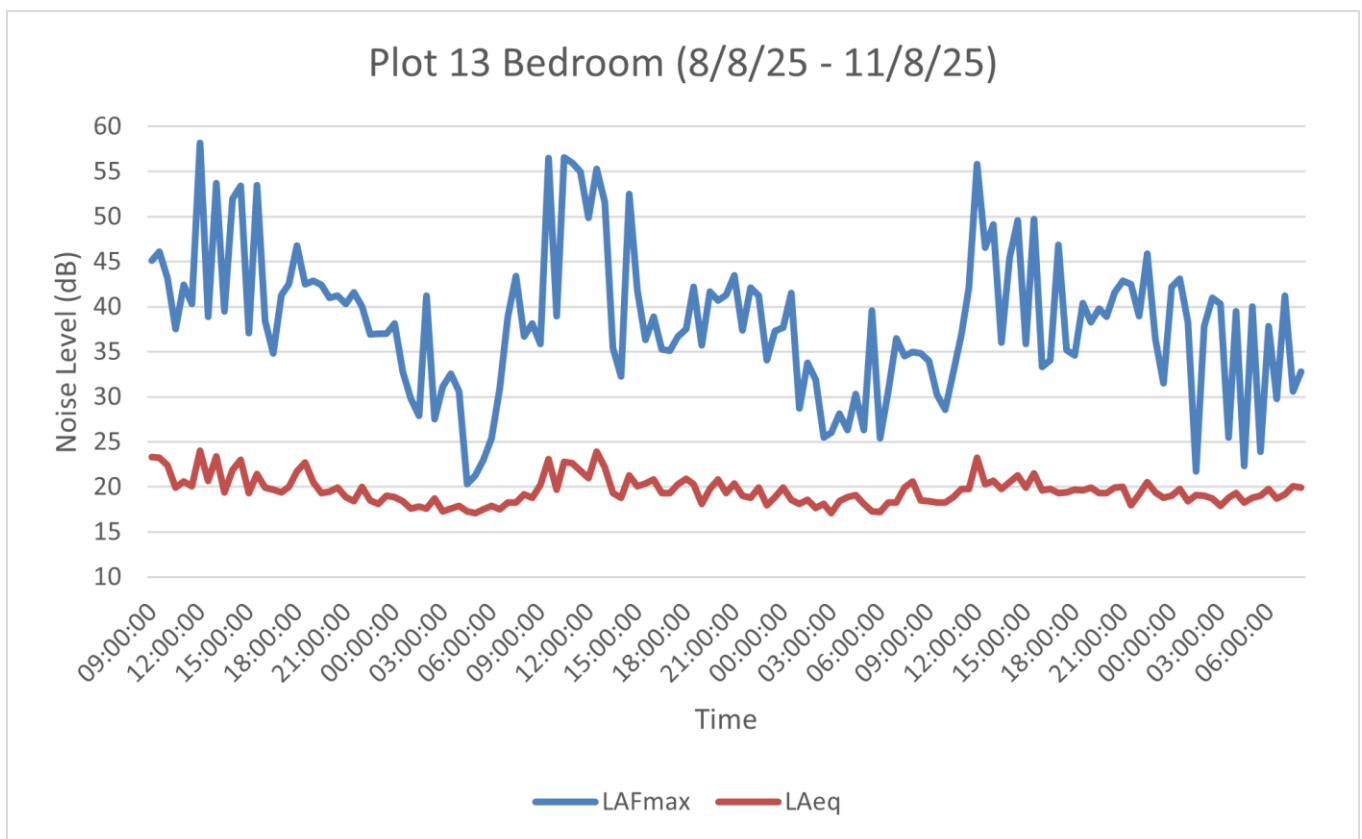


Figure C4 – Plot 13 Bedroom graphed measurement data

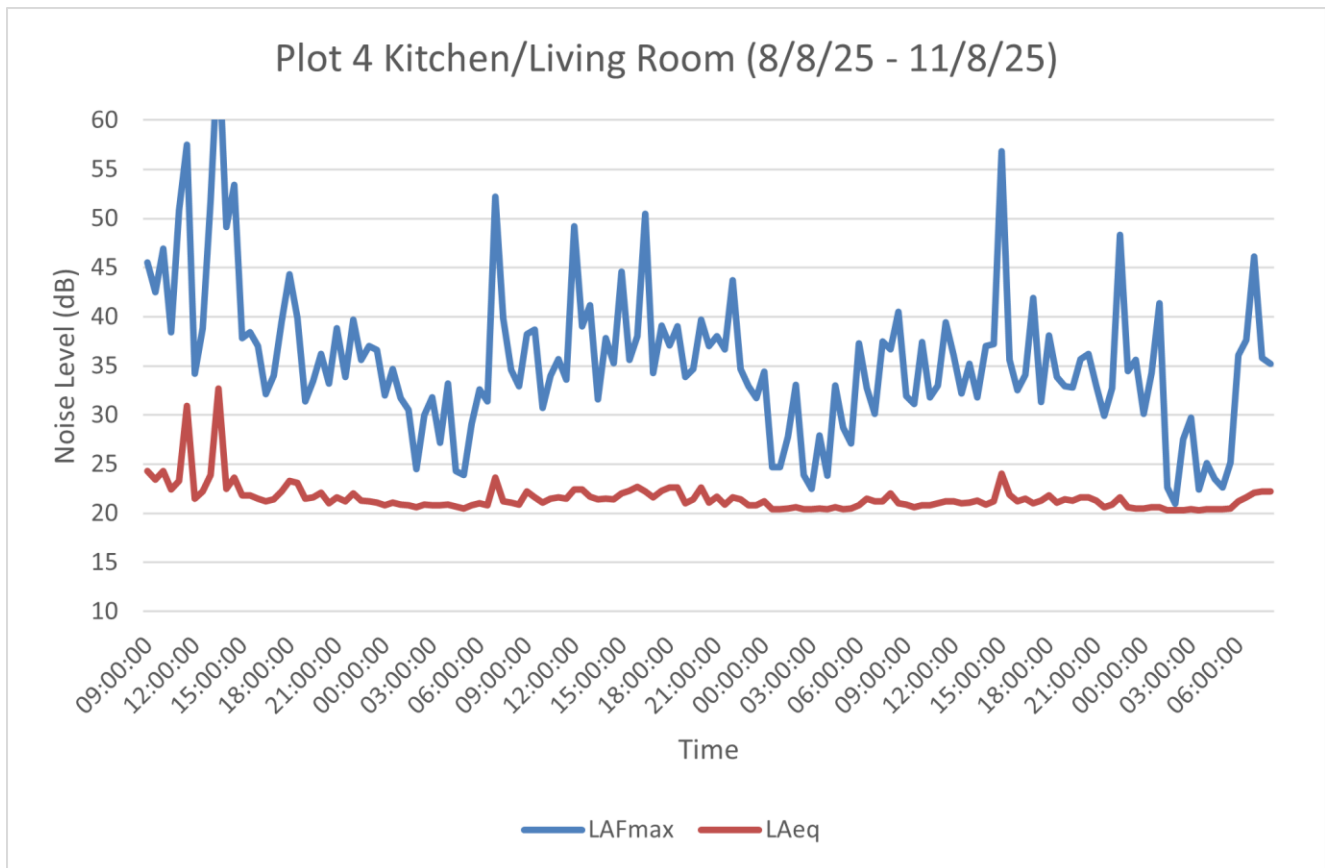


Figure C5 – Plot 4 Kitchen/Living Room graphed measurement data

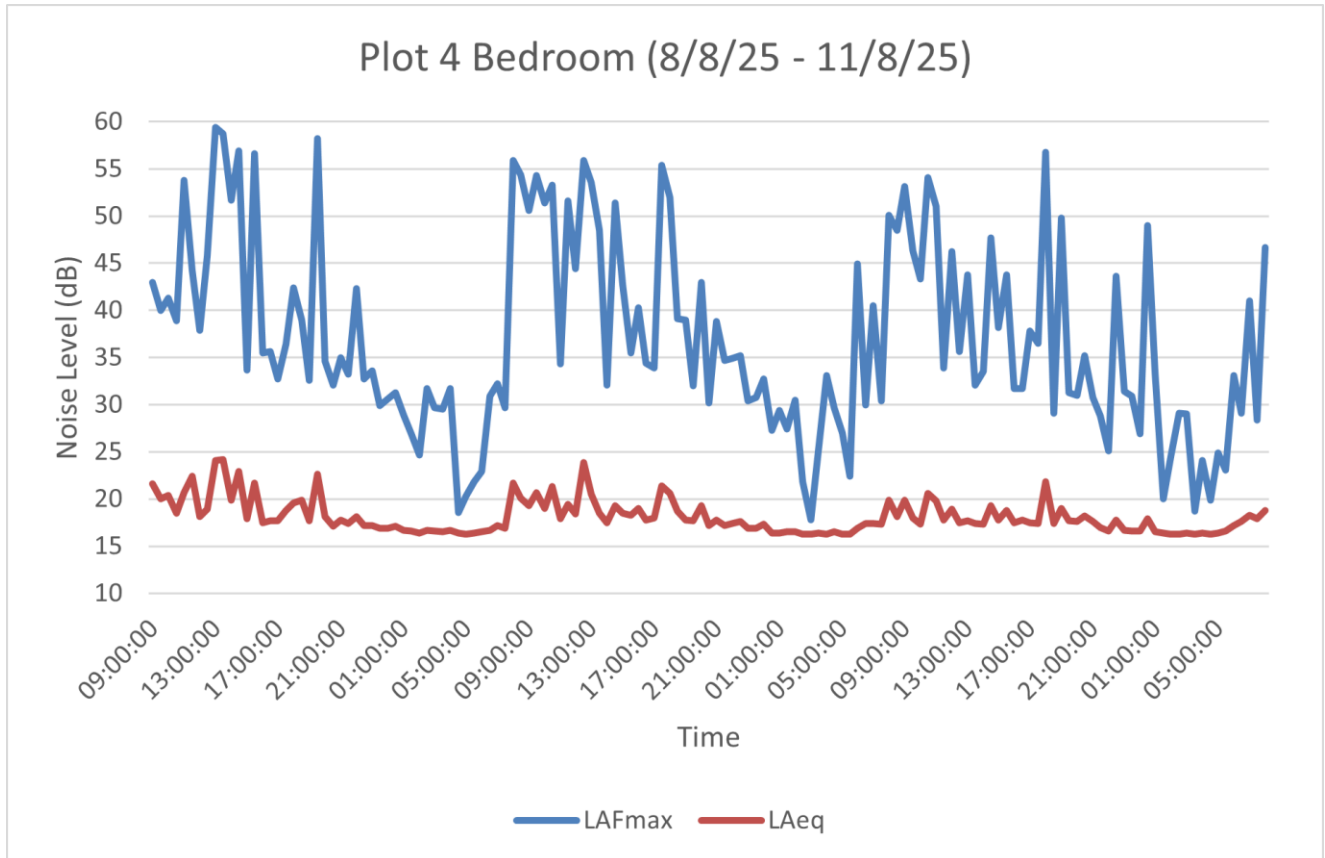


Figure C6 – Plot 4 Bedroom graphed measurement data