PENINSULAR ACOUSTICS

ANC ACOUSTICS & NOISE CONSULTANTS ACOUSTIC AWARDS 2024 AWARD WINNER

TECHNICAL NOTE

To: Mr Andrew Maxwell

Company: Amspec Limited

cc: Andrew.Maxwell@amspec.co.uk

From: Gillean Kennedy

Pages: 2

Date: 16/10/2026

Ref.: PA2200-R01-P02

Project: PA2200

Subject: 35 King Street, Manchester

Dear Andrew,

1.0 INTRODUCTION

Peninsular Acoustics Ltd has been commissioned by Amspec Limited for verification testing of the recently installed rooftop air conditioning unit at 35 King Street, Manchester, M2 7AT.

Following a previous acoustic assessment and report to assess the impact of installing one new air conditioning unit (ref. PA2200-R01-P01) hereinafter ('the Original Assessment'), further measurements were undertaken on-site to satisfy the following decision notice requirement (ref. PLA-2026-000543) issued by Manchester City Council on the 13th September 2026:

"b) Prior to the first operation of the rooftop condenser unit, a verification report, which will include post-completion testing, shall be submitted to and be approved in writing by the Local Planning Authority to validate that the rooftop condenser unit achieves a rating level of 5dB (LAeq) below the typical background (LA90) level at the nearest noise sensitive location."

2.0 INSTALLED AIR CONDITIONING UNIT

The item of plant detailed in the table below was recently installed at 35 King Street, Manchester, M2 7AT.

The manufacturer's sound pressure level data used in the Original Assessment is presented in **Table 1**.

Table 1: Table 1: Manufacturers Sound Pressure Level

Unit name	Sound Pressure Level $L_{pA\ at\ 1m}$ (dB)	Number installed
SAMSUNG AC200KXAPNH/EU	60	1

3.0 METHODOLOGY AND RESULTS

An on-site measurement of the installed unit was conducted on the 10th of September 2026 to verify the unit's stated sound pressure level. During the measurement, metrological conditions were observed as calm and temperate with wind speeds less than 5m/s and no precipitation recorded.

The unit was measured at a noted set distance while operating in isolation at its loudest duty.

A period during which the dominant noise sources at the measurement location were absent, namely pedestrians and tram passings from below, was selected to avoid significant influence from extraneous noise sources.

4.0 EQUIPMENT

Sound levels were measured using a Class 1 SLM. The SLM was field calibrated before and after the measurement using a Class 1 calibrator, with no significant drift in calibration levels recorded (> ± 0.5dB). The equipment was used in free-field conditions to capture L_{Aeq} and L_{AFmax} at a minimum.

Full details of the noise measurement equipment used are available upon request but have been calibrated to traceable standards within the 12 – 24 months prior to the survey being undertaken.

5.0 RESULTS

The table below shows the sound pressure level measured on-site, distance corrected to 1 metre:

Table 2: Measured in-situ sound pressure level

Installed unit	Measured Sound Pressure Level $L_{pA\ at\ 1m}$ (dB)
SAMSUNG AC200KXAPNH/EU	46

As shown above, the in-situ measured sound pressure level is 14 dB below the manufacturer's sound pressure level used to inform the Original Assessment.

6.0 CONCLUSION

Peninsular Acoustics Ltd were commissioned by Amspec Limited to verify the stated sound pressure levels of the recently installed air conditioning unit at 35 King Street, Manchester, M2 7AT in order to comply with the previously predicted report levels (PA2200-PA1-R01).

The in-situ measurements recorded a sound pressure level of 46 dB at 1 metre, which is 14 dB below the manufacturer's stated level of 60 dB used in the Original Assessment. As such, the rating level predicted at the nearest NSR would be correspondingly lower than previously predicted, thereby comfortably achieving a 'Low' impact in accordance BS 4142 and meeting the overarching planning requirements as stated in the decision notice (ref. PLA-2026-000543) issued by Manchester City Council.

Therefore, it can be concluded that the installation on-site does not pose a risk of an adverse noise impact on nearby residential amenity.

Kind Regards,

Gillean Kennedy AMIOA



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