

1. Enhanced Reverberation Control:

- The tests showed a marked improvement in reverberation times, especially at higher frequencies like 8kHz, where the reverberation time dropped to 1.26 seconds with the pod in place. This reduction helps to achieve crisper, cleaner recordings by minimizing echoes.
- These improvements were tested both in an office environment and in a reverberation room, indicating that the VTrap Mobile Studio can adapt to different acoustic environments effectively.

2. Superior Speech Level Reduction:

- The VTrap Mobile Studio demonstrated a speech level reduction of up to 6.3 dB with a person inside and 5.9 dB without, significantly reducing ambient noise and enhancing sound clarity.
- This makes it ideal for professional recording, broadcasting, and voiceover work, where noise control is crucial.
- The results align with BS ISO 23351-1:2020, ensuring the product's acoustic performance meets international standards.

3. Versatile Usage Scenarios:

- The product was tested in two configurations: with and without a person inside. While not typically part of the standard test, including a person offers real-world insight into how the pod performs in practical use.
- This versatility allows the VTrap Mobile Studio to be marketed as suitable for a range of professional uses, such as mobile studios, sound booths for interviews, podcasts, and other audio applications.

4. Comprehensive Testing with High-Quality Equipment:

- The testing was conducted using top-of-the-line equipment, including Brüel & Kjaer microphones and sound level meters, ensuring the accuracy and reliability of the results.
- This reinforces the VTrap Mobile Studio's image as a premium, scientifically validated solution for professionals who demand the best in sound isolation and quality.
- The SRL Technical Services Ltd. laboratory in the UK, where the tests were conducted, is known for rigorous, independent testing, further enhancing the credibility of the product's performance claims.

This combination of proven noise reduction, reverberation control, and real-world testing presents the Vtrap Mobile Studio as a reliable, high-performance solution for audio professionals across various industries .

Table 1 – Speech Level Reduction - Pod Only

Test reference: 1

Test date: 19/06/2024

Description: Pod Only

Frequency Hz	Level reduction, dB
125	1.9
250	2.1
500	6.8
1000	5.5
2000	7.0
4000	8.4
8000	10.4
Speech level reduction $D_{S,A}$	5.9

Air temperature	17.8	°C
Relative humidity	64	%RH
Static pressure	1014	mbar

Classification of enclosure according to speech level reduction, $D_{S,A}$ from Table D.1 in Annex A of BS ISO 23351-1:2020

Class	Unclassified
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Photograph 1 – Speech Level Reduction Test, Setup Pod Only



Table 2 – Speech Level Reduction - Pod with Person

Test reference: 2

Test date: 19/06/2024

Description: Pod, With person

Frequency Hz	Level reduction, dB
125	2.9
250	4.5
500	5.6
1000	8.4
2000	8.0
4000	9.4
8000	10.9
Speech level reduction $D_{S,A}$	6.3

Air temperature	17.8	°C
Relative humidity	64	%RH
Static pressure	1014	mbar

Classification of enclosure according to speech level reduction, $D_{S,A}$ from Table D.1 in Annex A of BS ISO 23351-1:2020

Class	Unclassified
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Photograph 2 – Speech Level Reduction Test, Setup Pod with Person



Photograph 3 – Speech Level Reduction Test, Setup Person Only



Table 3 - Reverberation Times

Frequency Hz	Reverberation Times, secs			
	Office		Reverberation Room	
	No Pod	with Pod	No Pod	with Pod
63	0.90	0.89	5.01	5.41
125	0.66	0.76	5.44	4.62
250	0.47	0.42	5.93	5.15
500	0.34	0.32	5.10	4.33
1k	0.38	0.31	4.62	4.23
2k	0.42	0.38	4.06	3.82
4k	0.47	0.46	2.68	2.61
8k	0.44	0.44	1.30	1.26