



Supplementary 1: Results on Room Acoustic Parameters

Following four graphs presents the results on room acoustic parameters. **Table S1** below explains the set-up for each configuration.

Table S1. Configuration Description.

Configuration		Ceiling	Wall treatment
No	Abbreviation		
1	52CA_F	52 m ² absorptive	No wall treatment
2	52CA_9WA_F	52 m ² absorptive	9 m ² absorptive tiles distributed on two walls
3	52CA_9VWD_F	52 m ² absorptive	9 m ² vertically oriented diffusers distributed on two walls

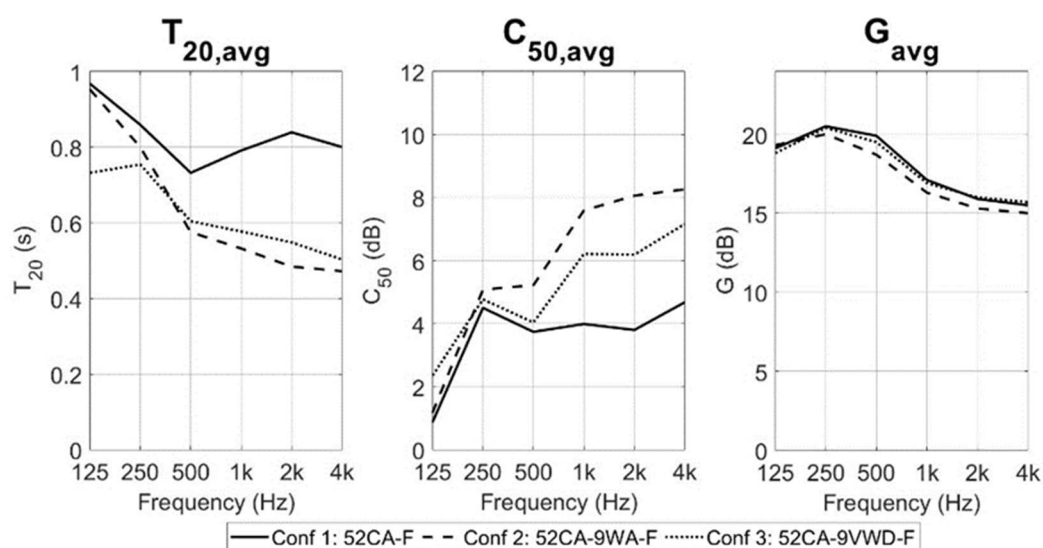


Figure S1. Average values over two sources and seven receiver positions for room acoustic parameters reverberation time, T₂₀, speech clarity, C₅₀, and sound strength, G.

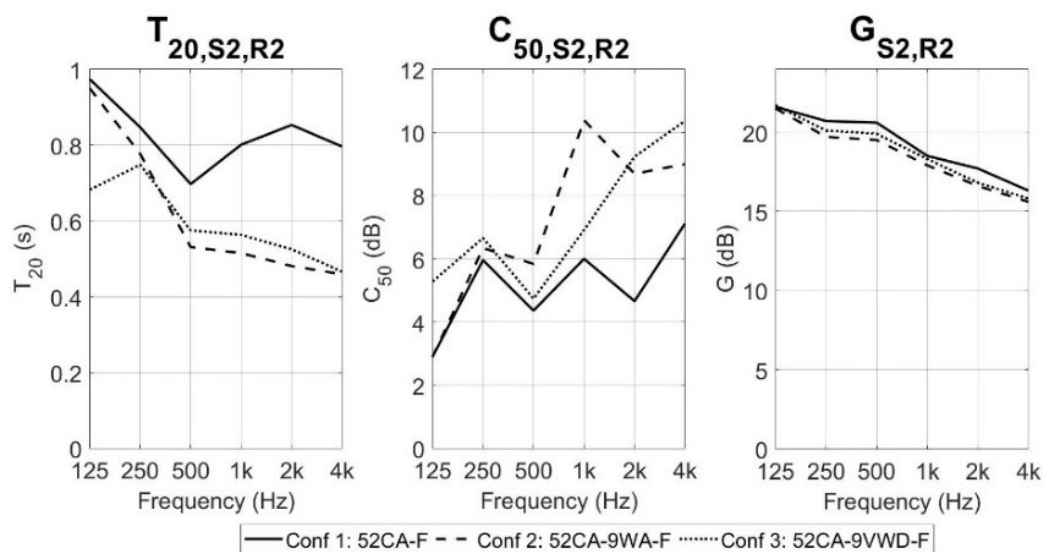


Figure S2. The three room acoustic parameters evaluated, reverberation time, T_{20} , speech clarity, C_{50} , and sound strength, G , for **specific receiver positions** using source position S2 and **receiver position R2**, i.e., close to the speaker.

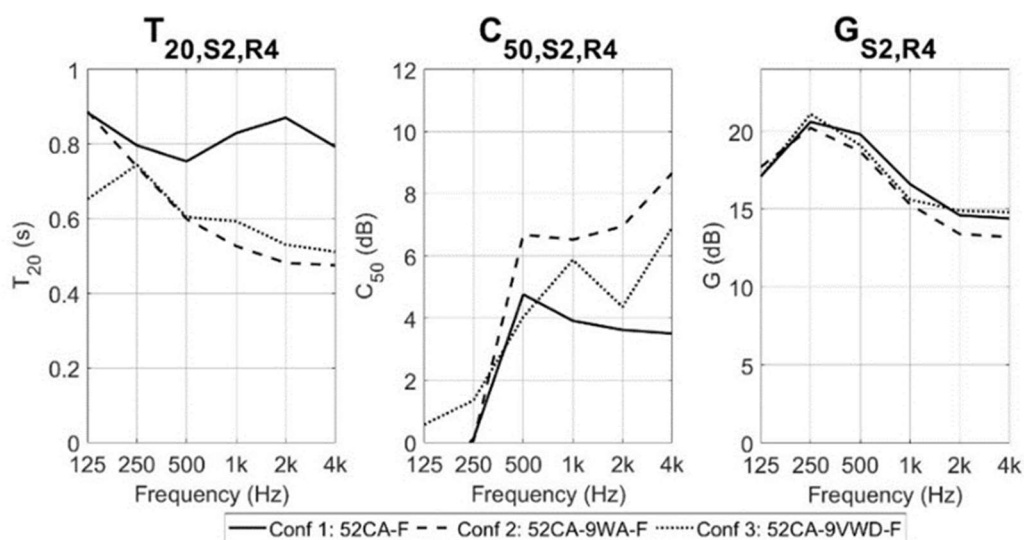


Figure S3. The three room acoustic parameters evaluated, reverberation time, T_{20} , speech clarity, C_{50} , and sound strength, G , for **specific receiver positions** using source position S2 and **receiver position R4**, i.e., in the corner.

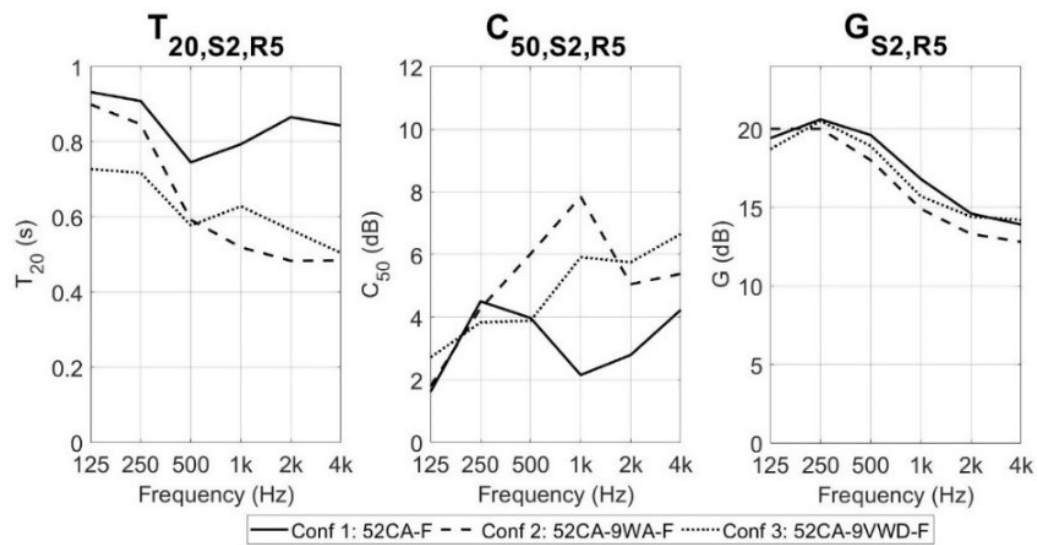


Figure S4. The three room acoustic parameters evaluated, reverberation time, T_{20} , speech clarity, C_{50} , and sound strength, G , for specific receiver positions using source position S2 and receiver position R5, i.e., same x-position as the speaker in the rear part of the room.