

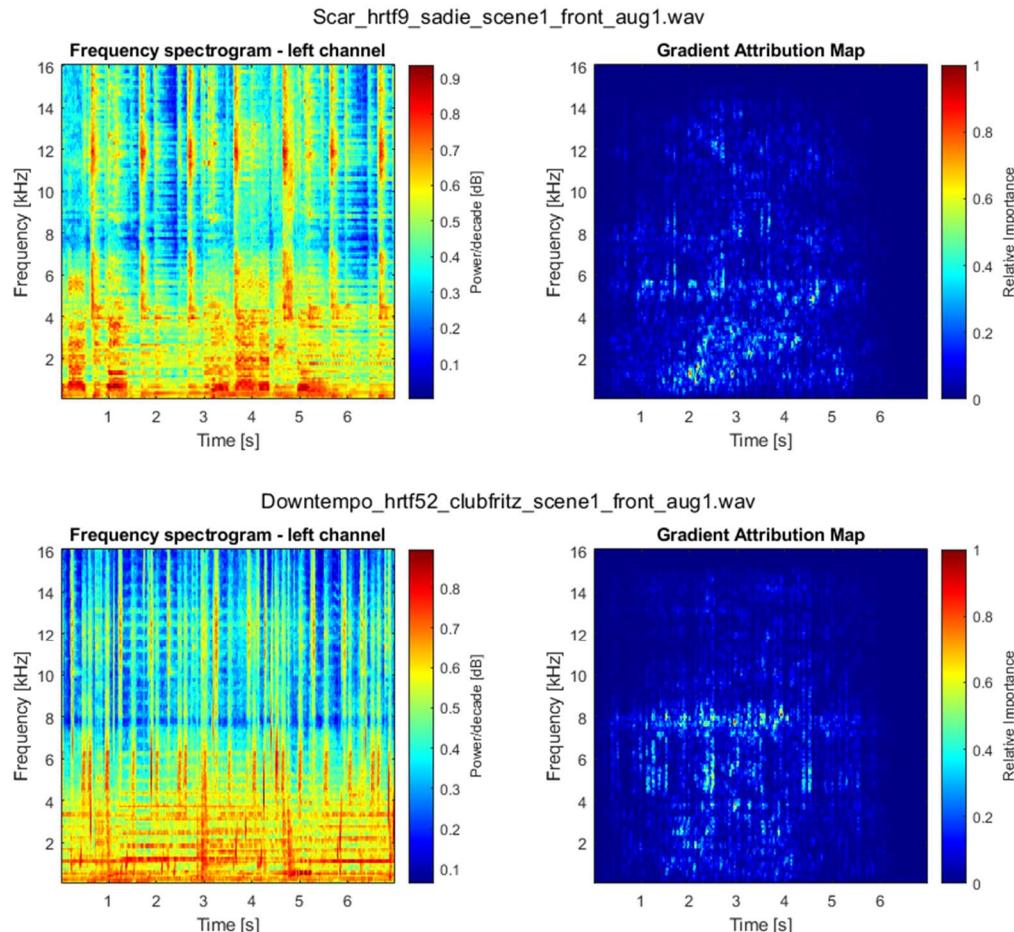
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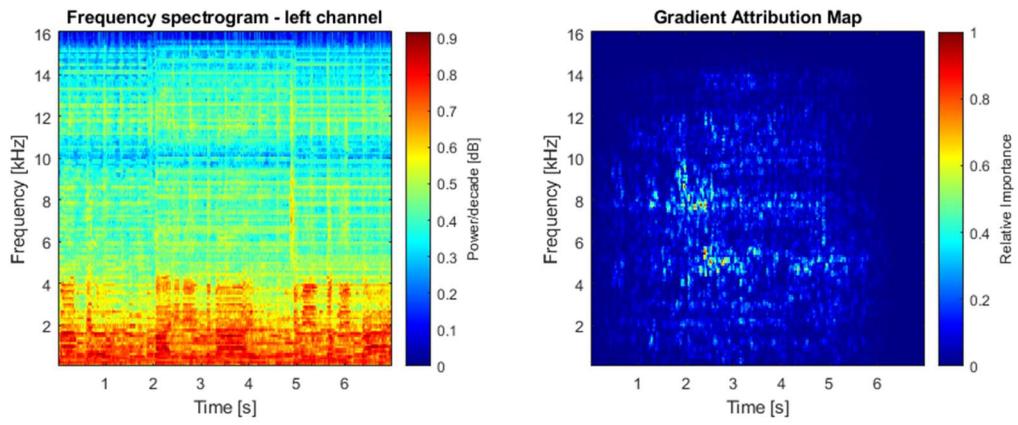
Gradient Attribution Map

Based on <https://arxiv.org/pdf/1312.6034.pdf>

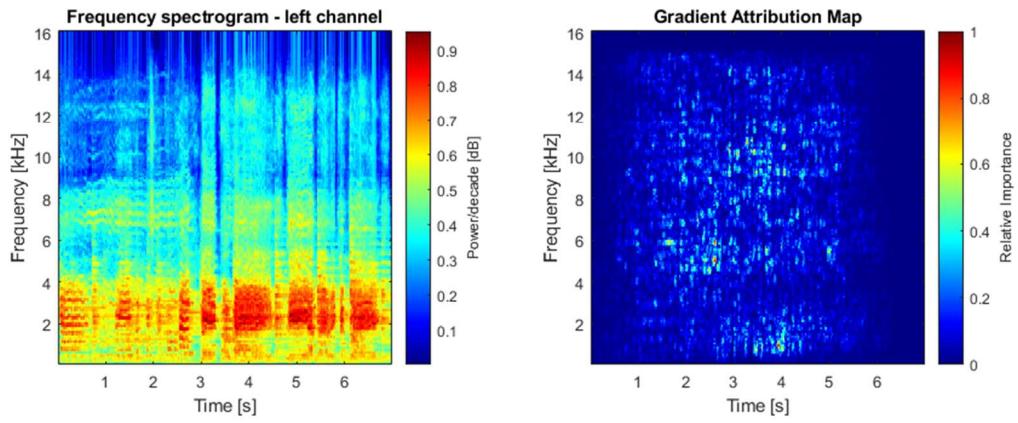
Gradient Attribution Maps for random selected samples



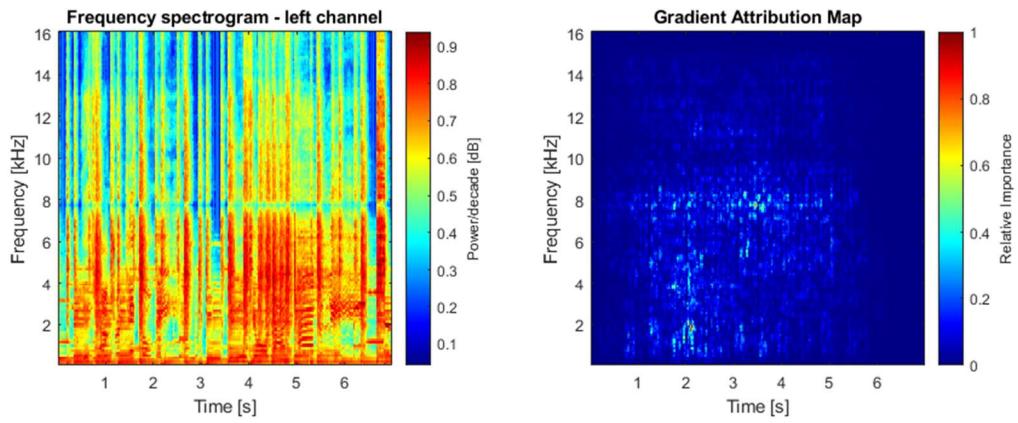
PassingShips_hrtf16_listen_scene2_back_aug1.wav



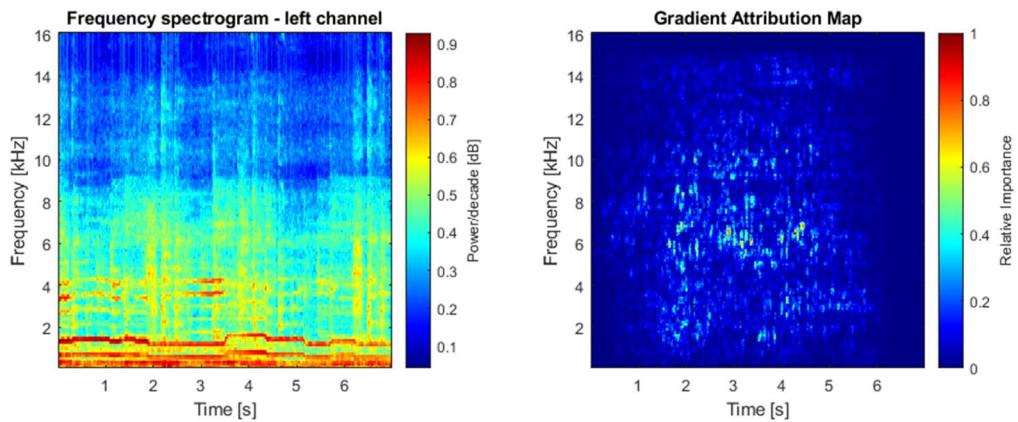
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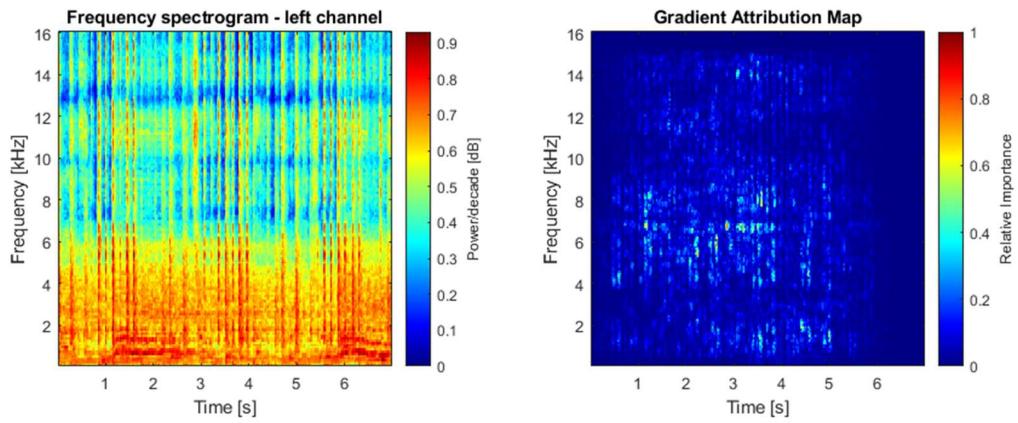
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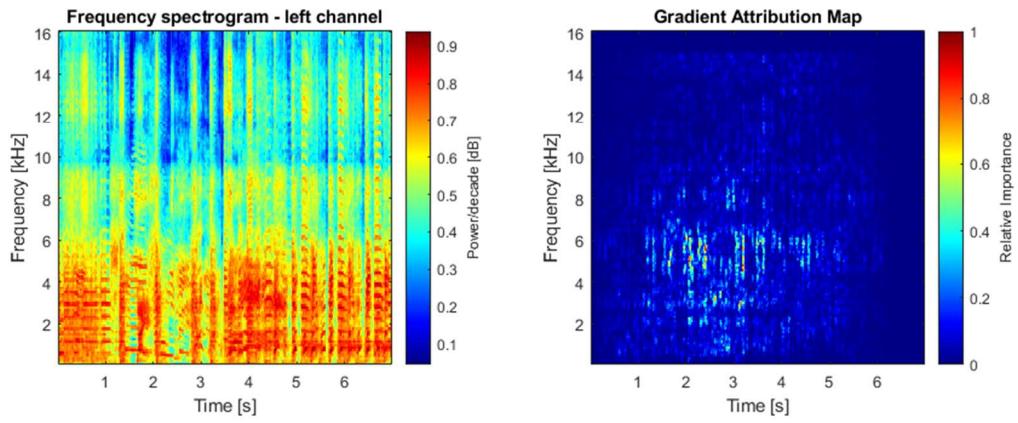
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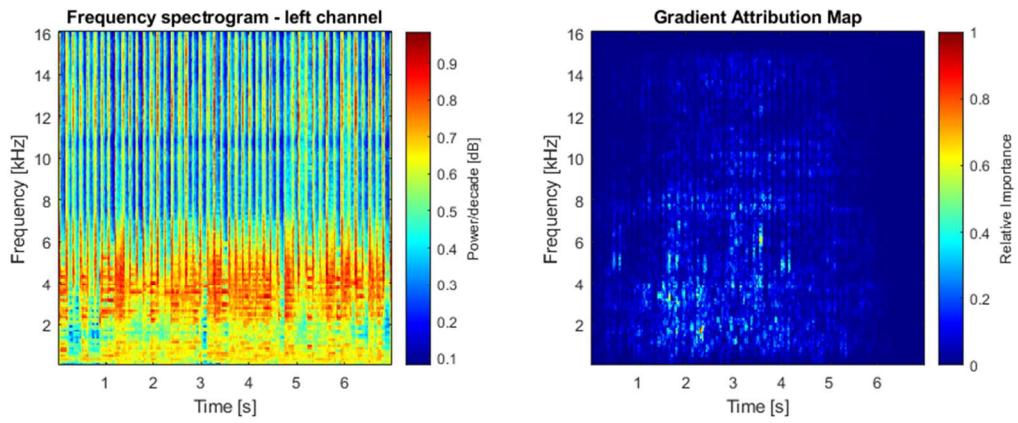
APlaceForUs_hrtf6_sadie_scene1_front_aug1.wav



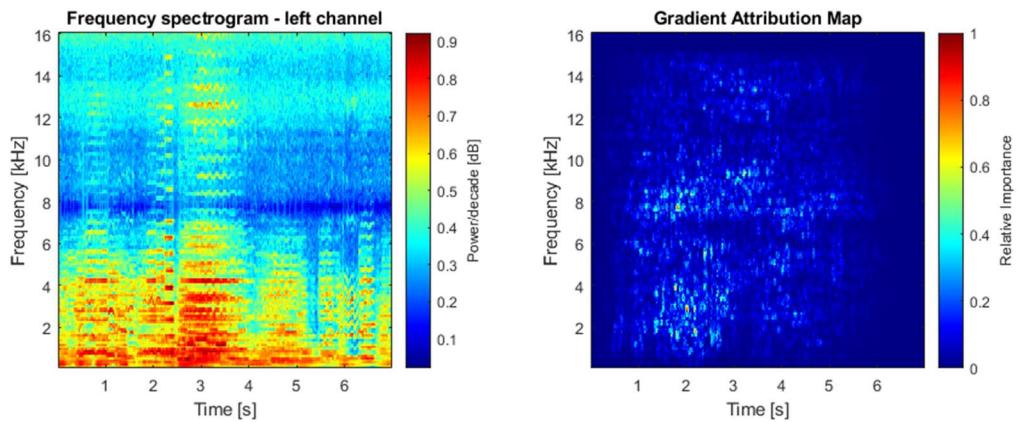
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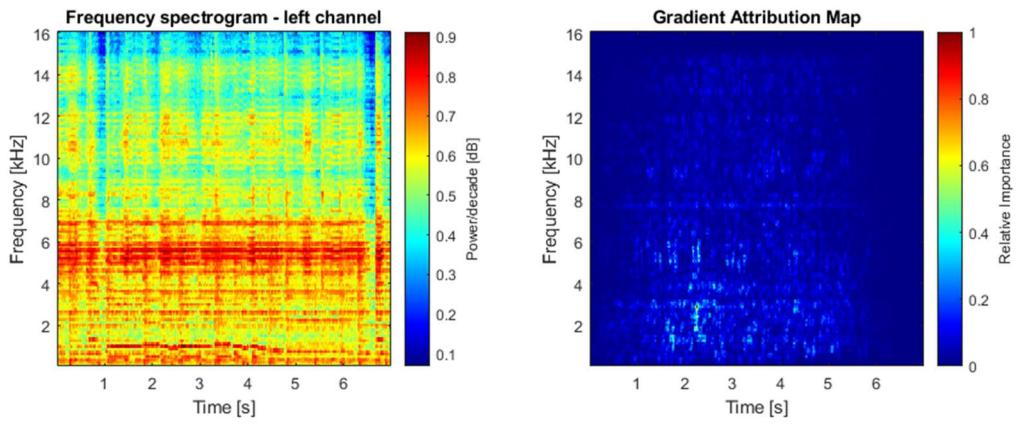
GhostlyBeard_hrtf34_tu-berlin_scene1_front_aug1.wav



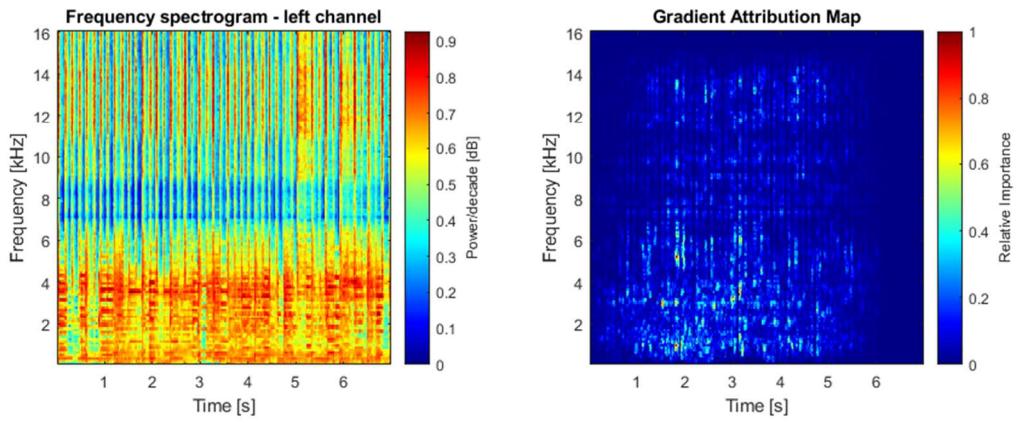
Mozart_hrtf26_th-koln_scene1_front_aug1.wav



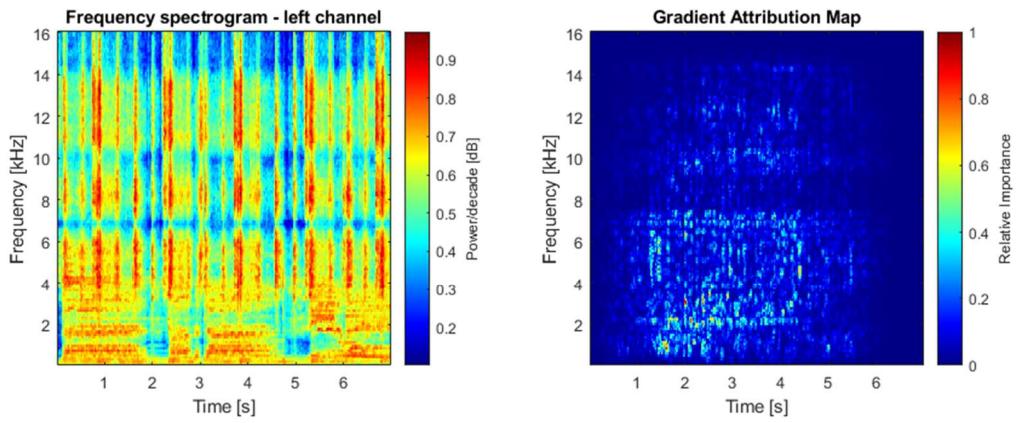
WolfsHead_hrtf66_aachen_scene1_front_aug1.wav



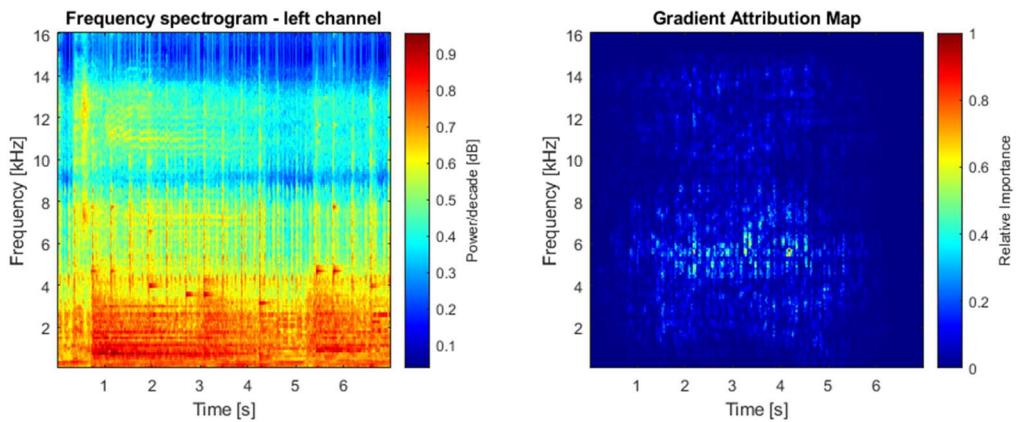
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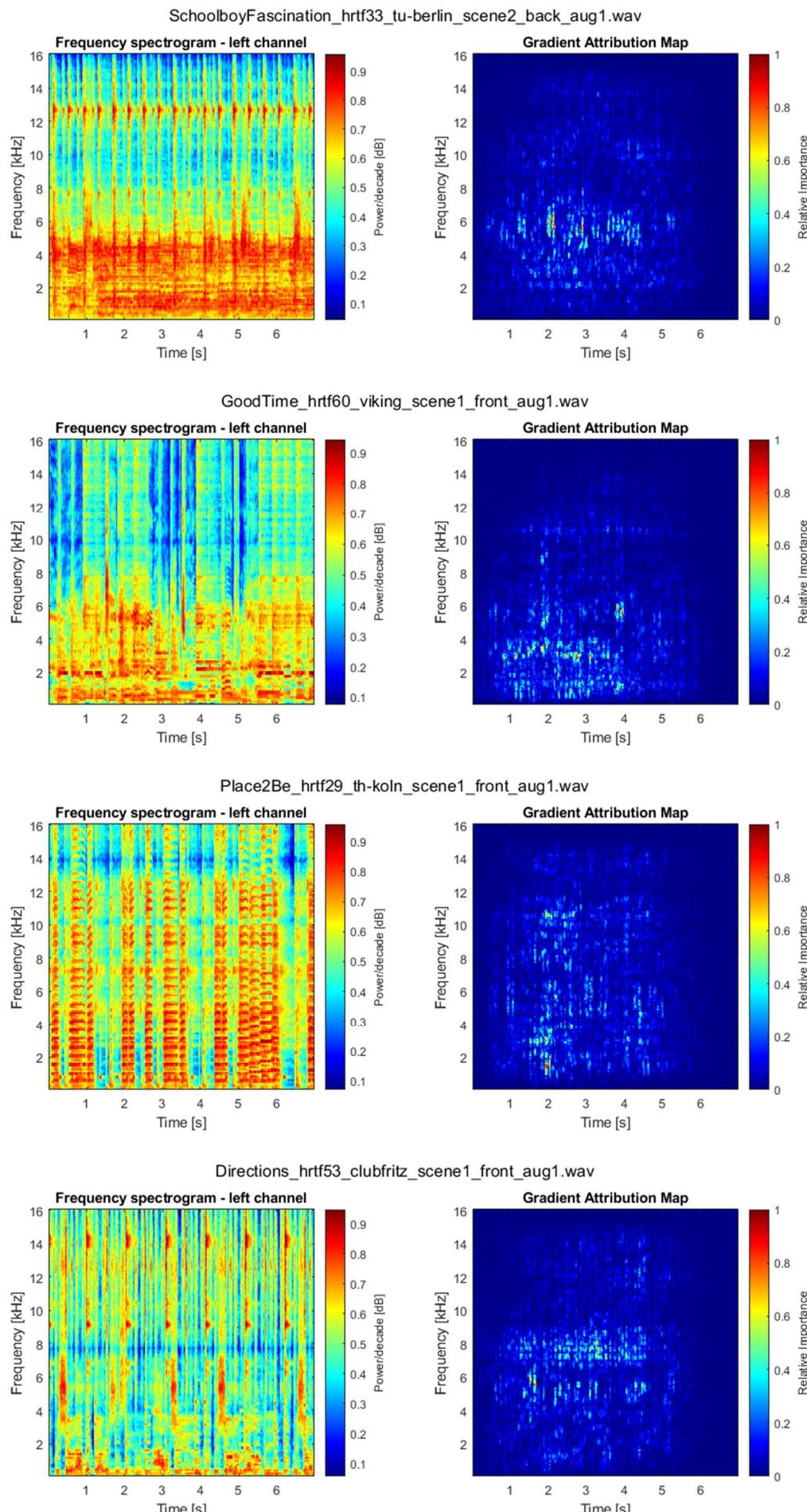


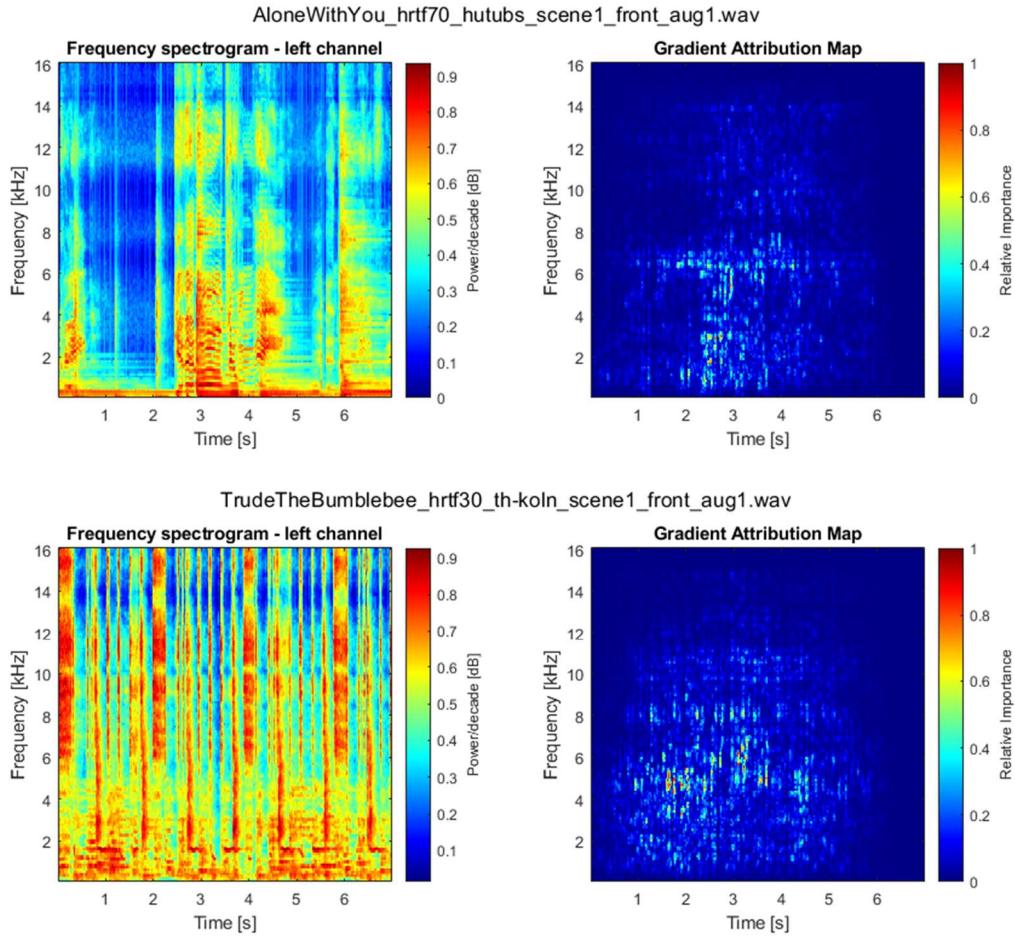
BackFromTheStart_hrtf22_cipic_scene1_front_aug1.wav



SixtyFourBristol_hrtf26_th-koln_scene2_back_aug1.wav



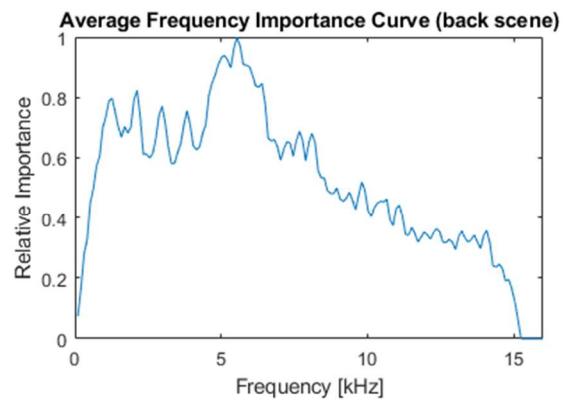
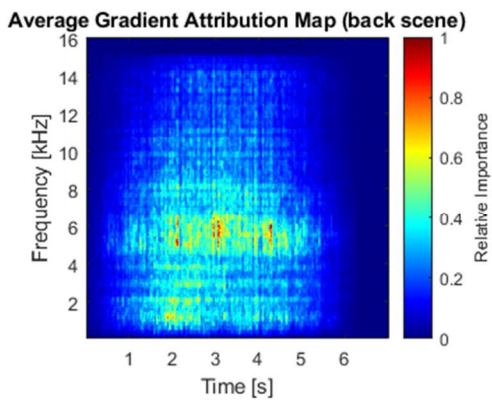
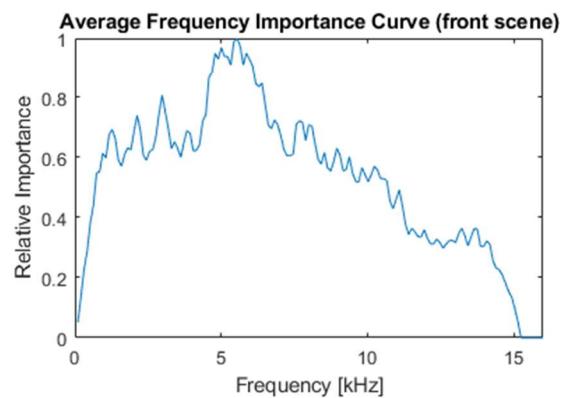
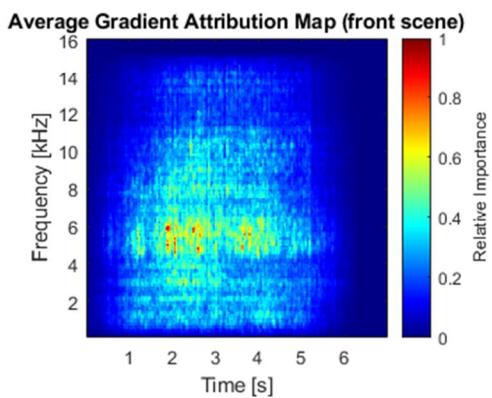
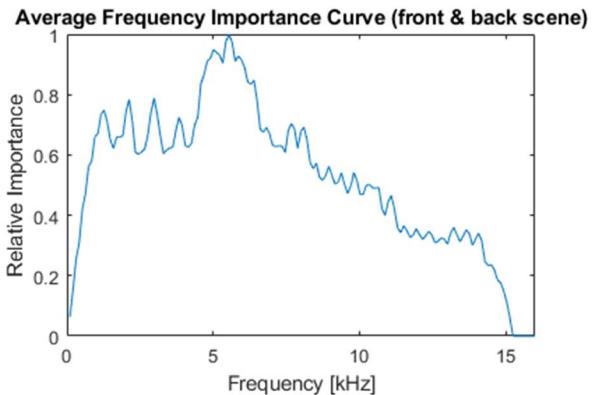
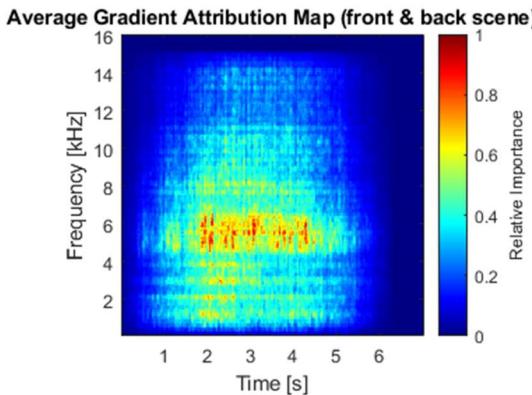




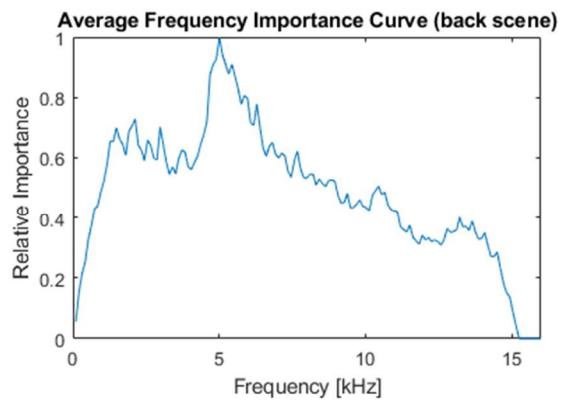
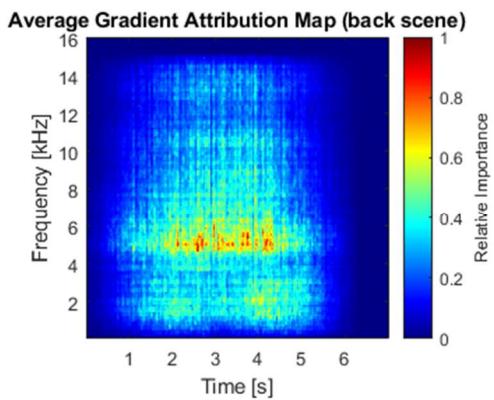
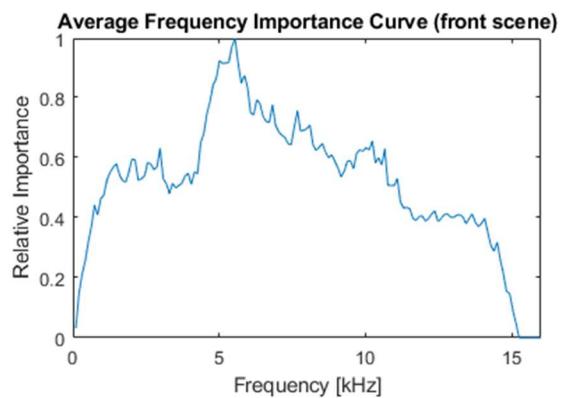
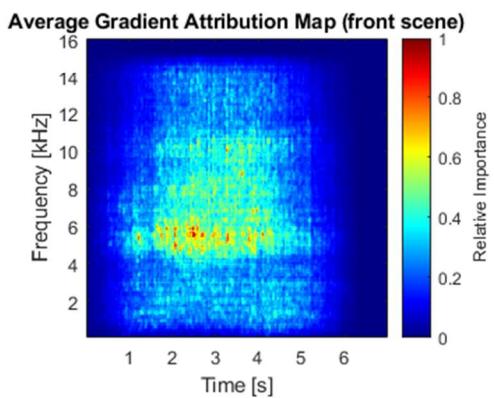
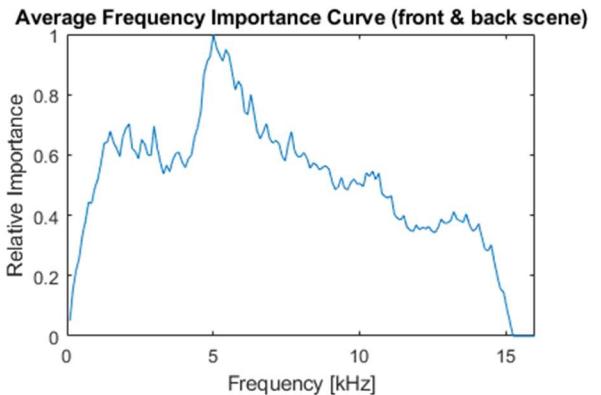
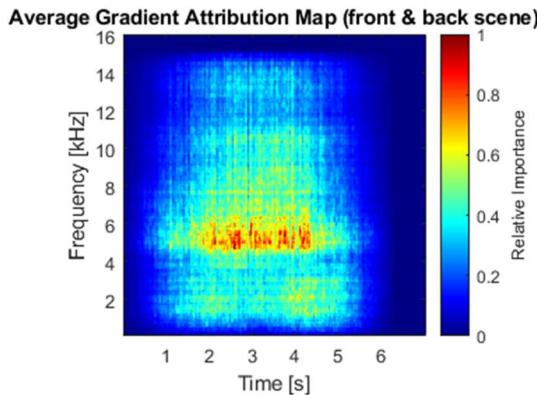
Averaged Gradient Attribution Maps grouped by target scene

Four networks with the same architecture and the same hyperparameters were trained. All other examples in this chapter are for the first network.

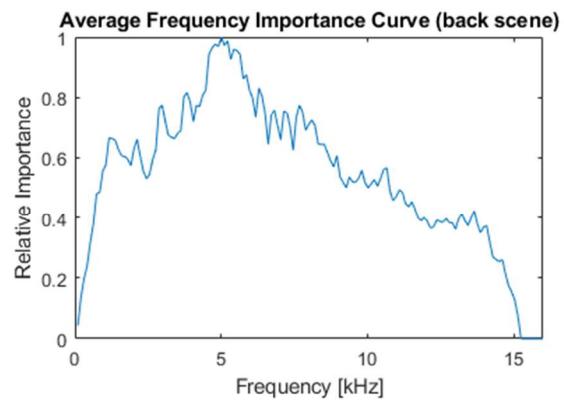
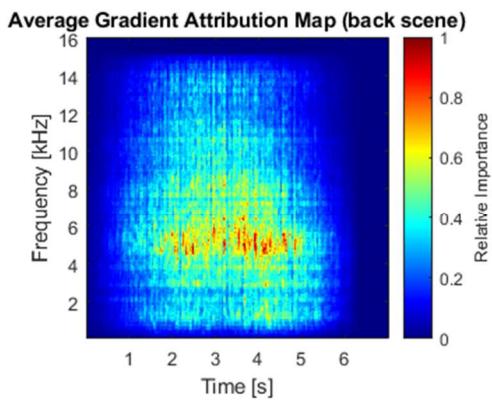
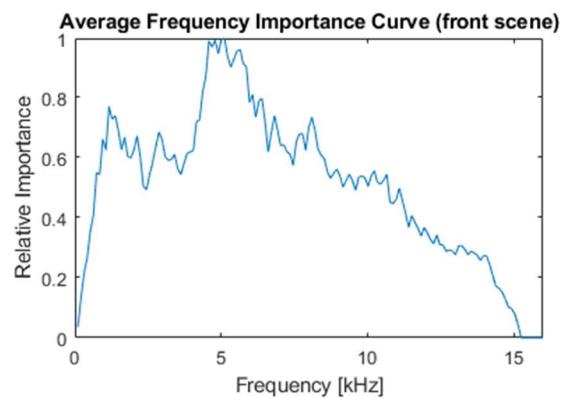
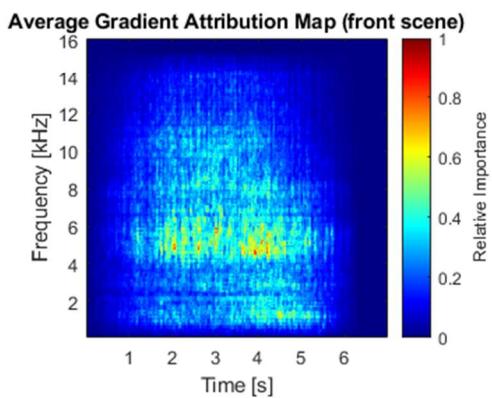
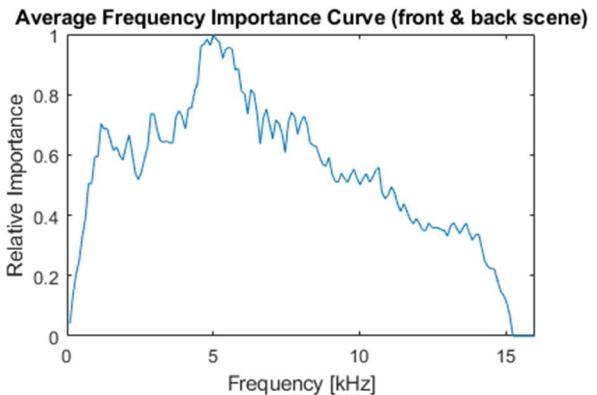
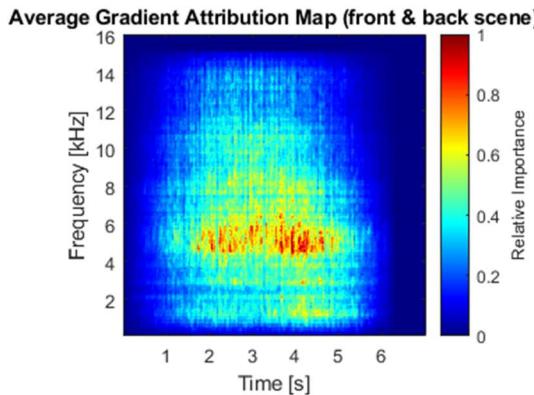
The result of the first network:



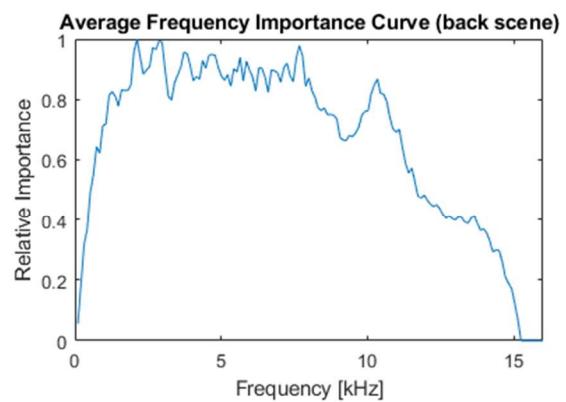
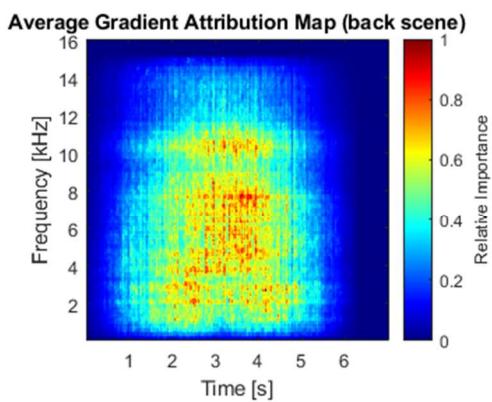
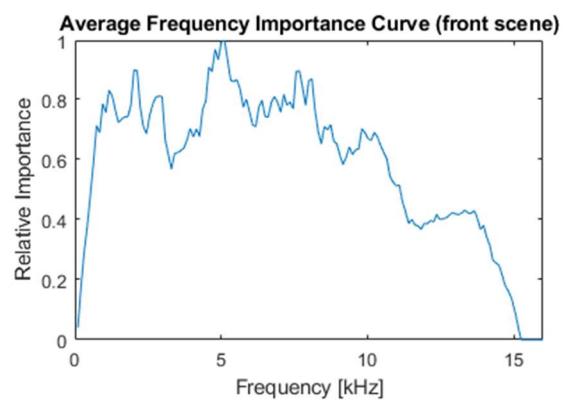
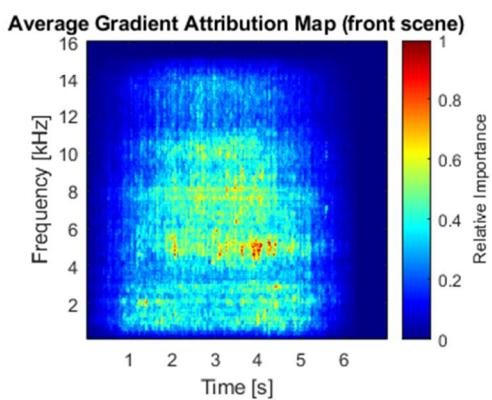
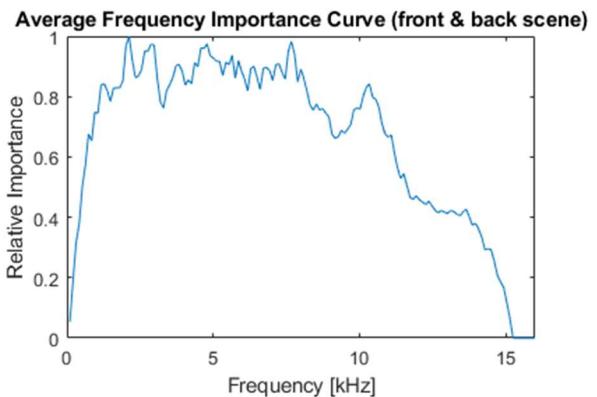
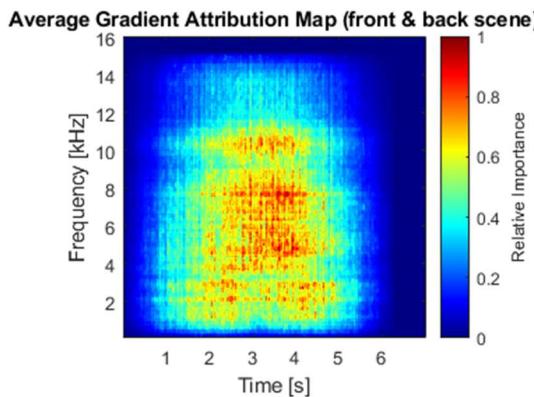
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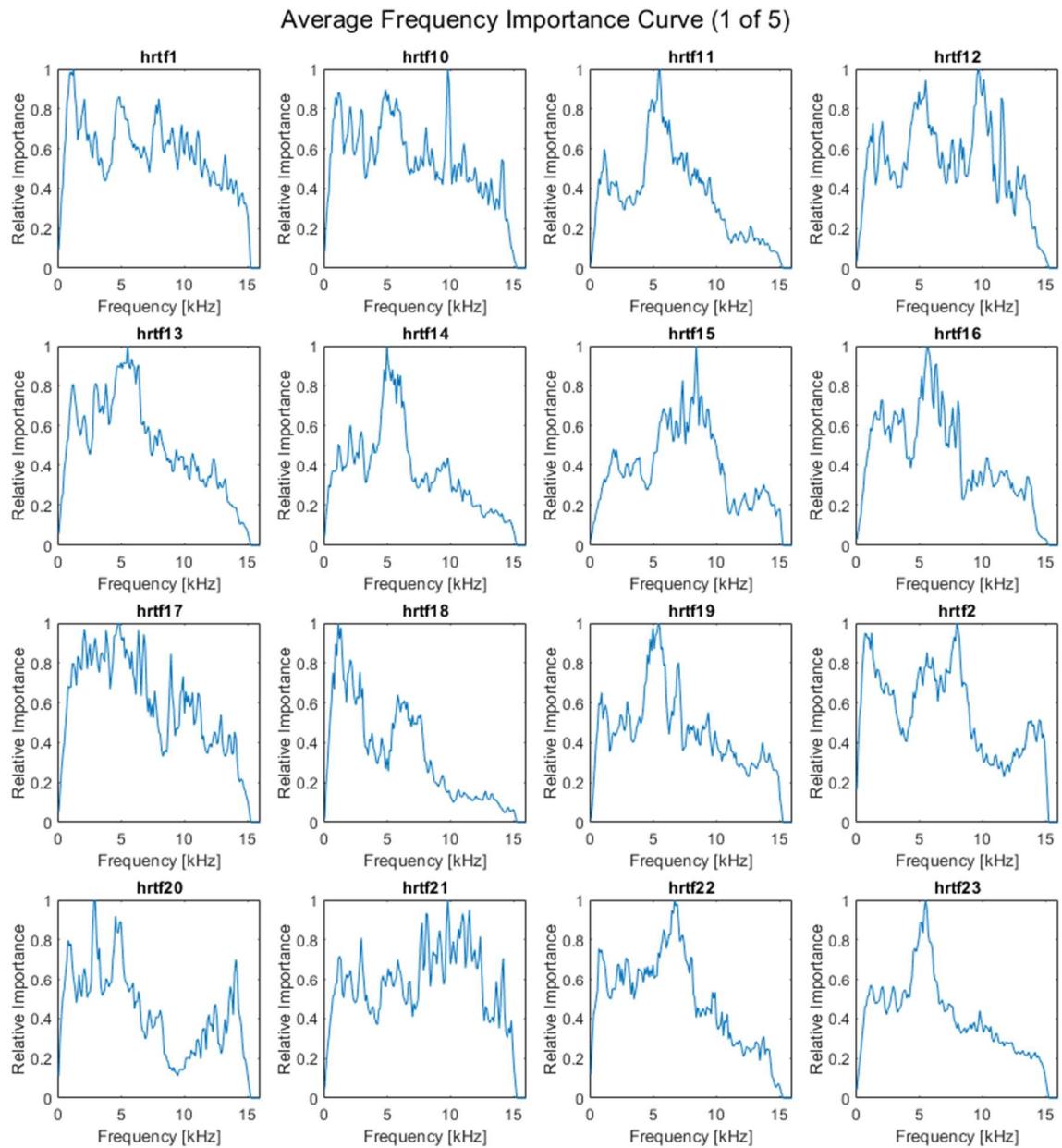
The result of the third network:



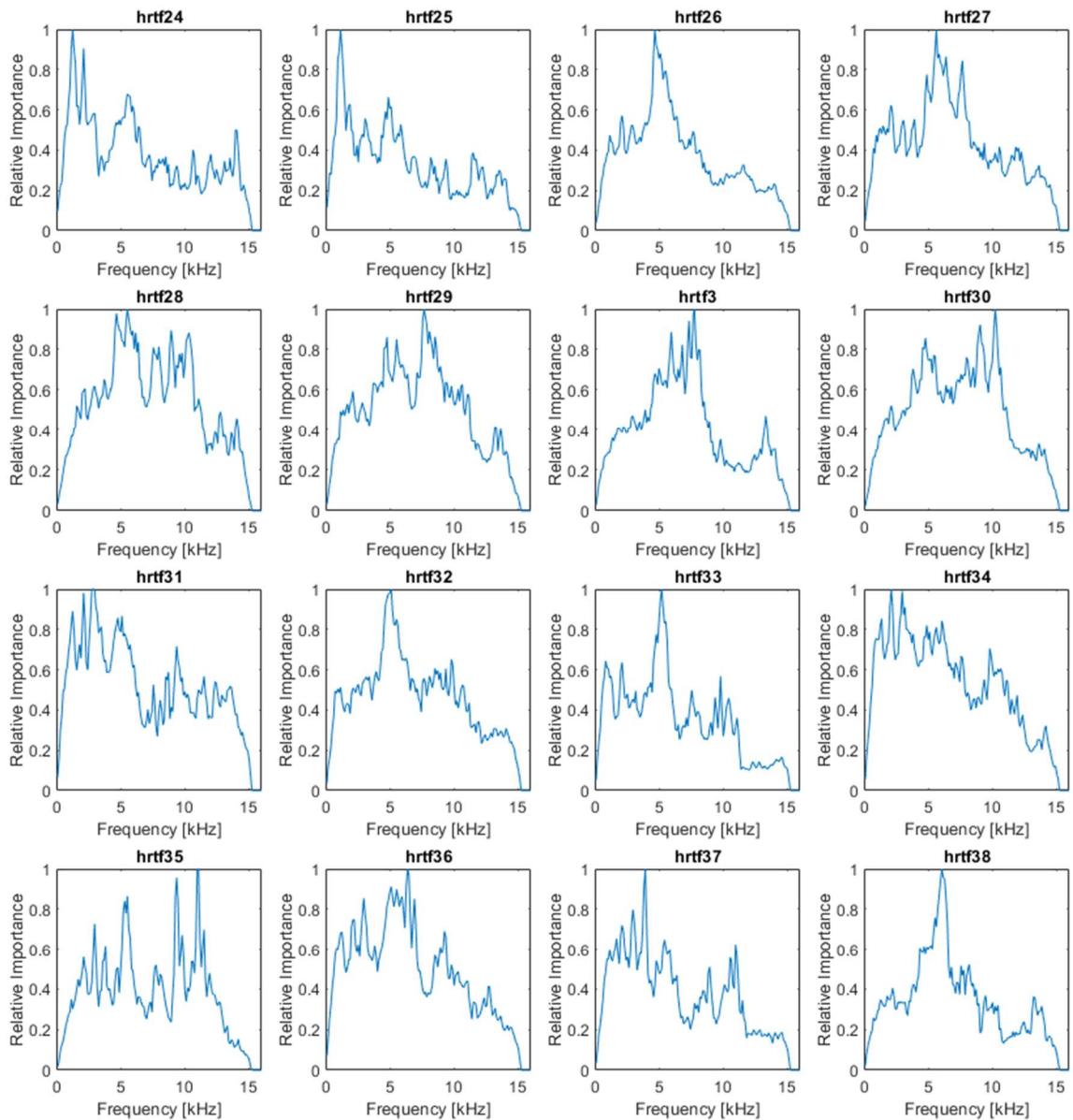
The result of the fourth network:



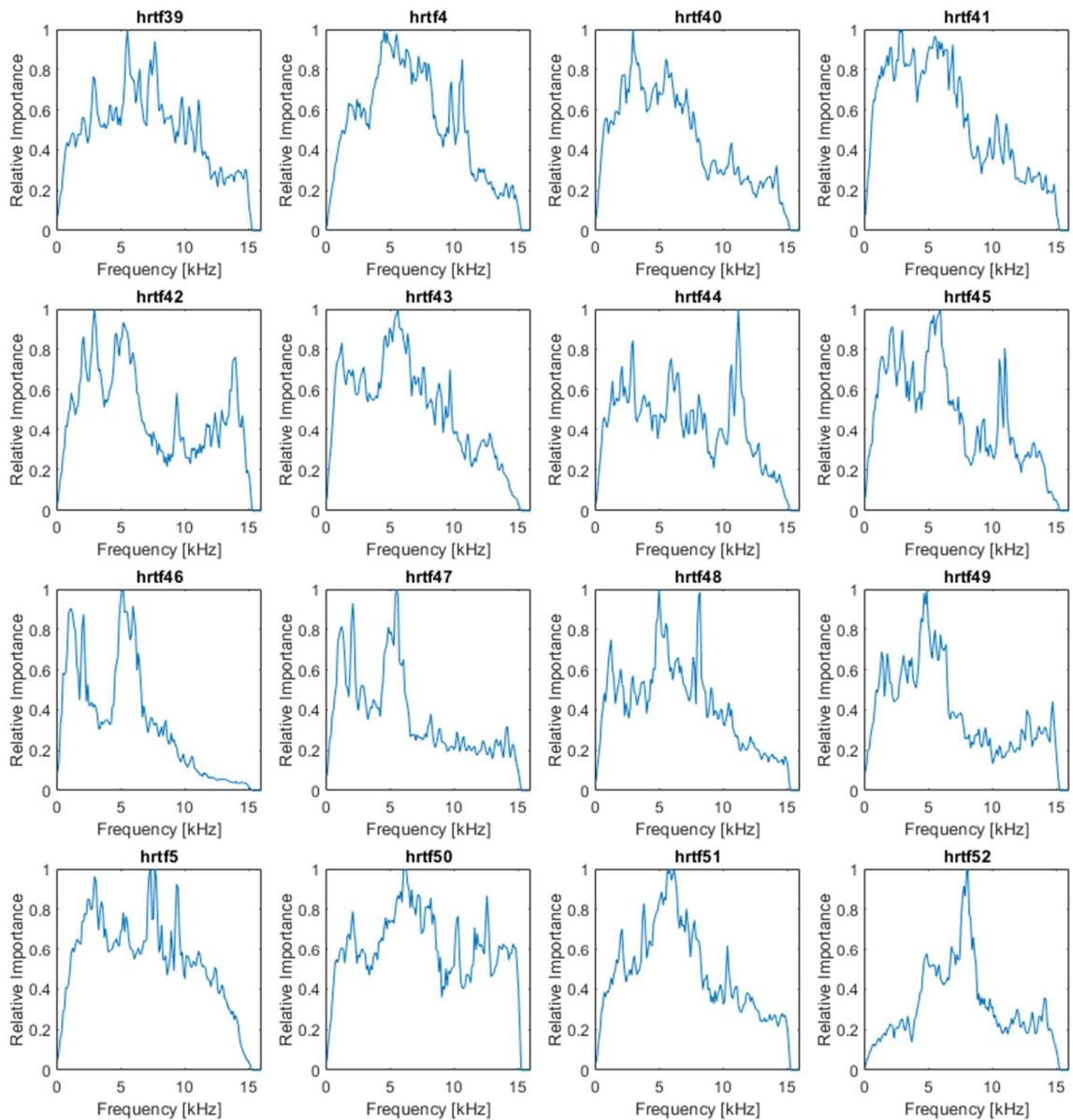
Averaged Gradient Attribution Maps grouped by HRTF



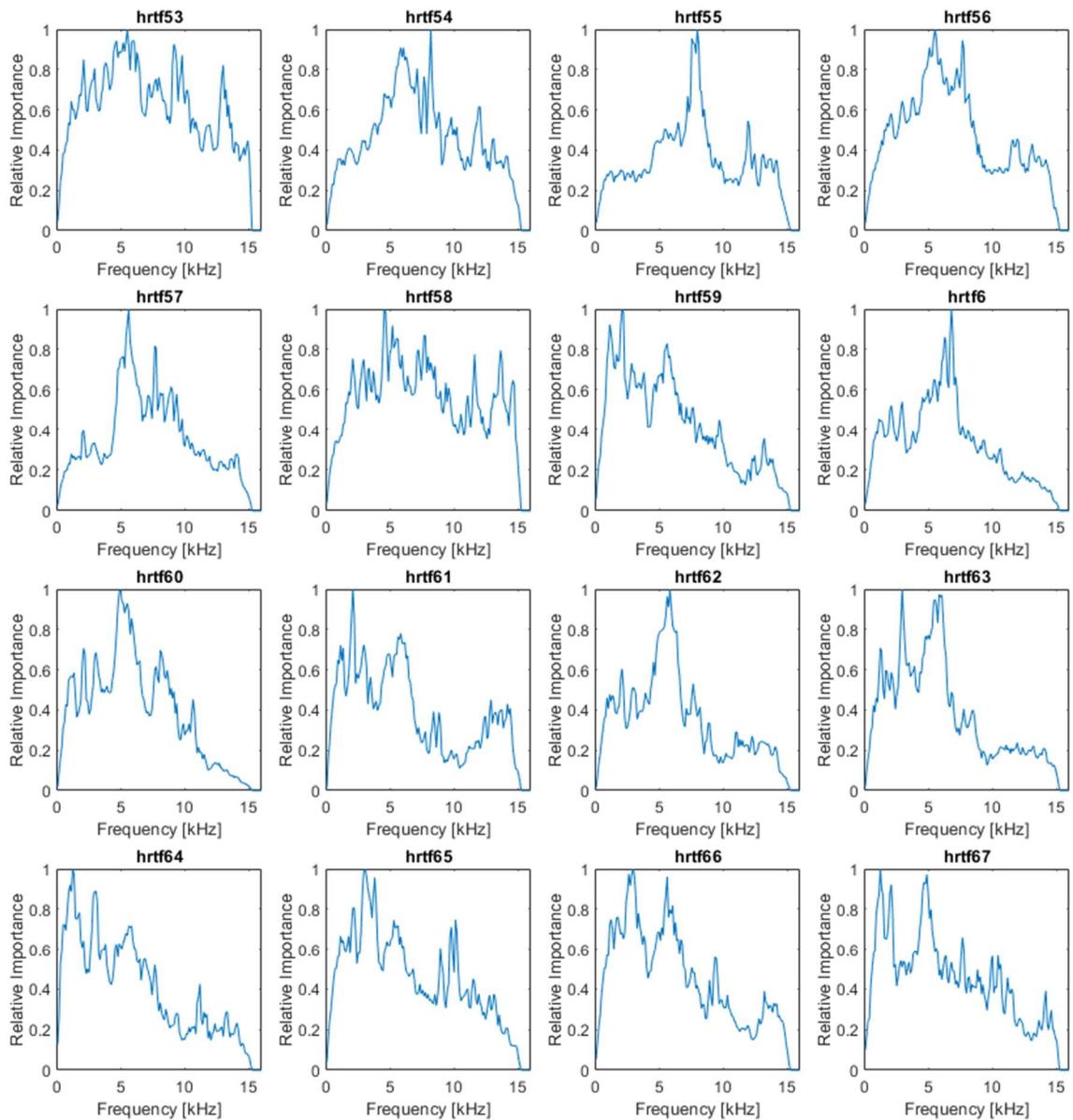
Average Frequency Importance Curve (2 of 5)



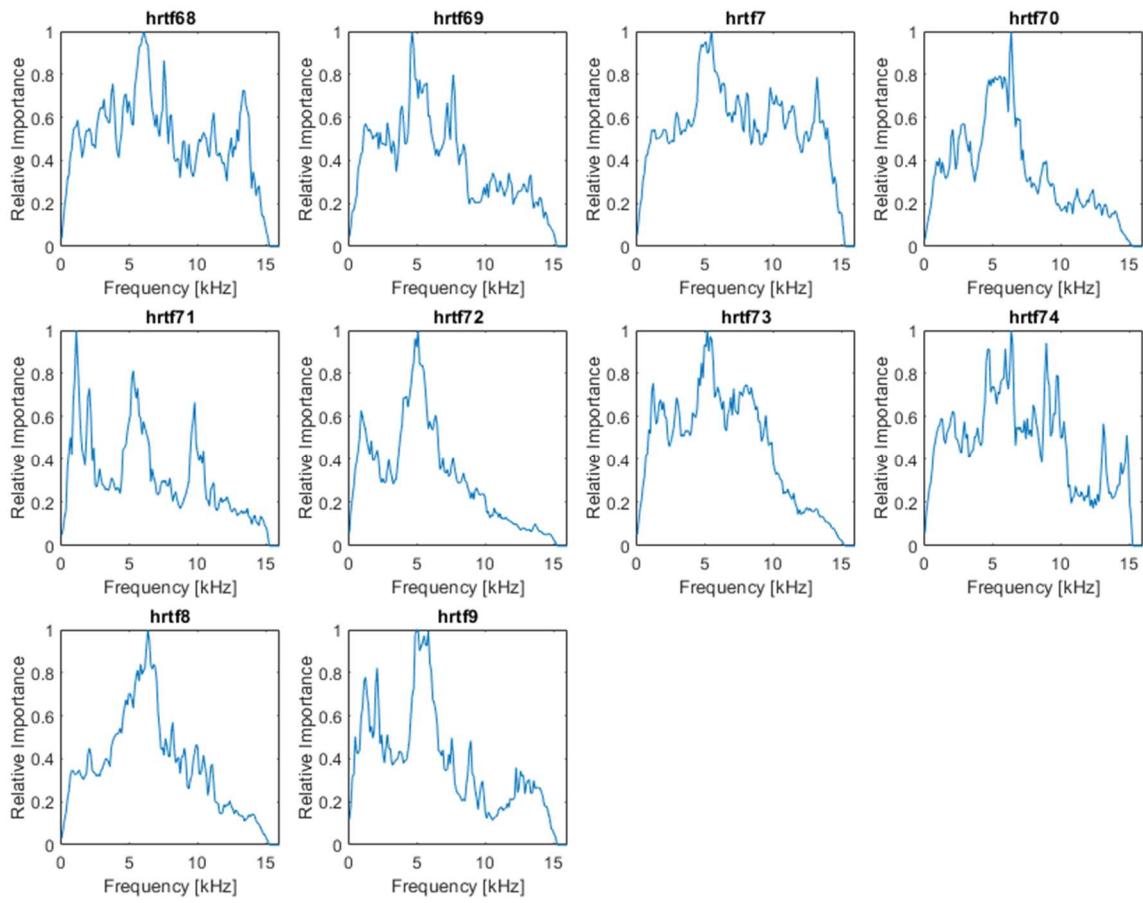
Average Frequency Importance Curve (3 of 5)



Average Frequency Importance Curve (4 of 5)

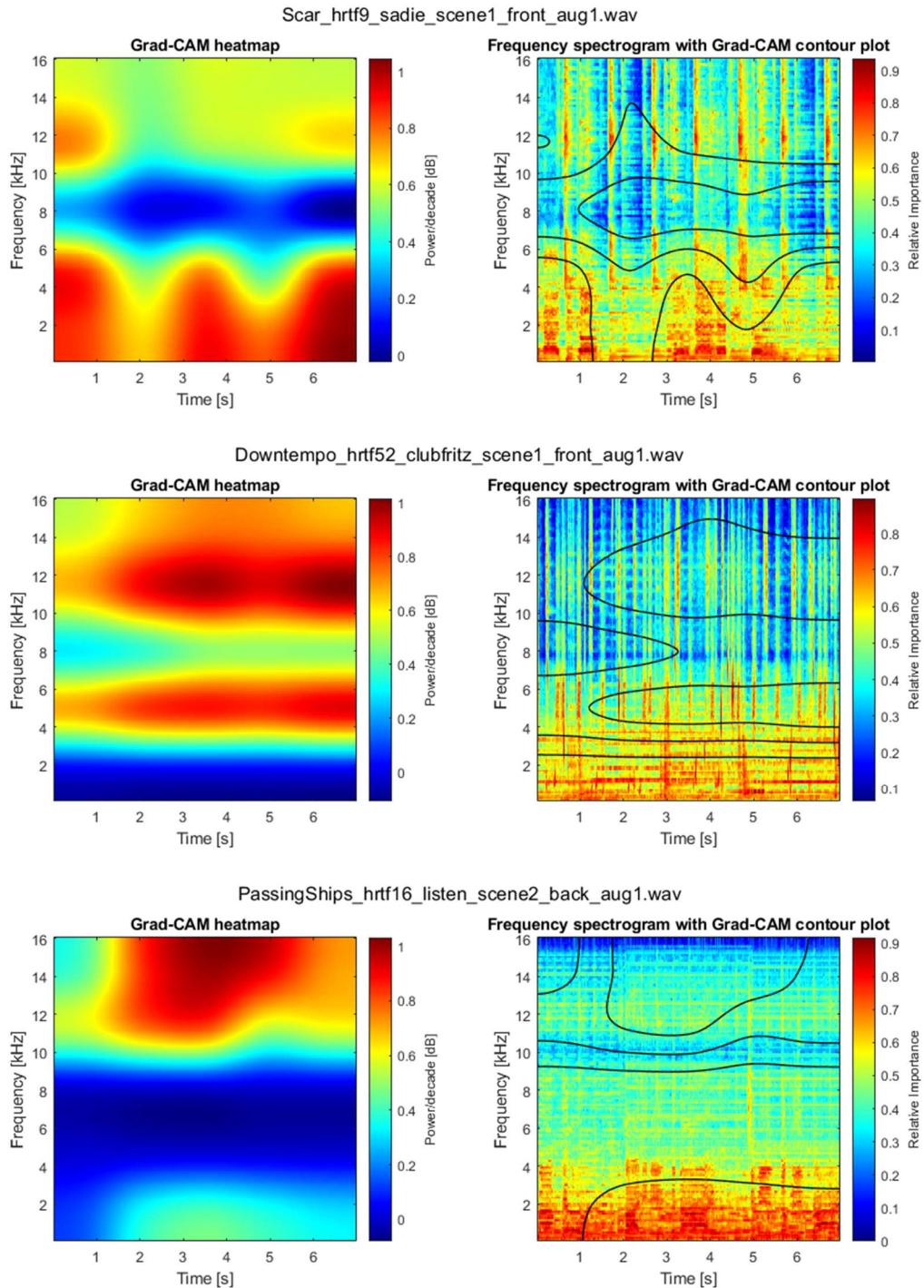


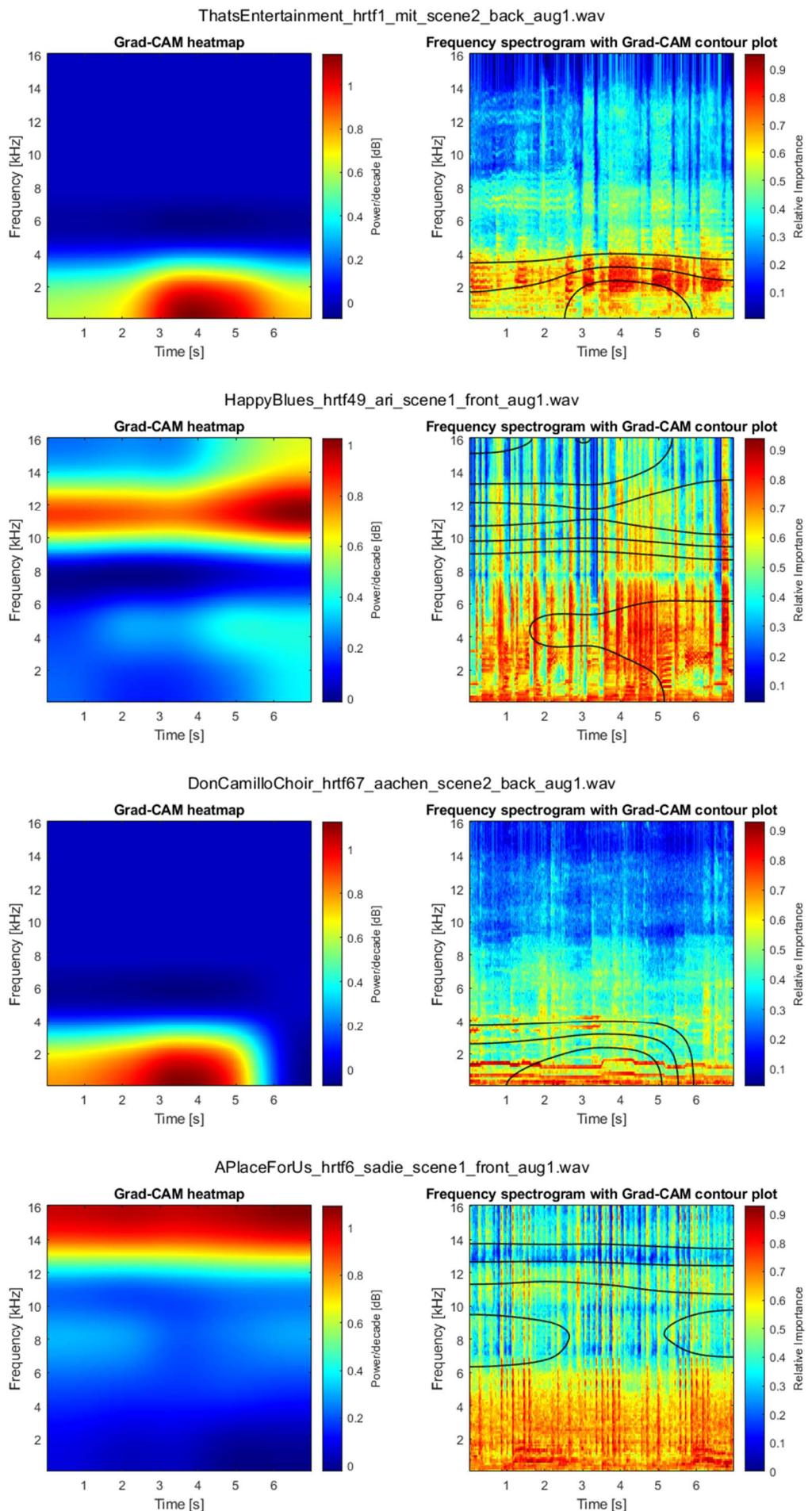
Average Frequency Importance Curve (5 of 5)

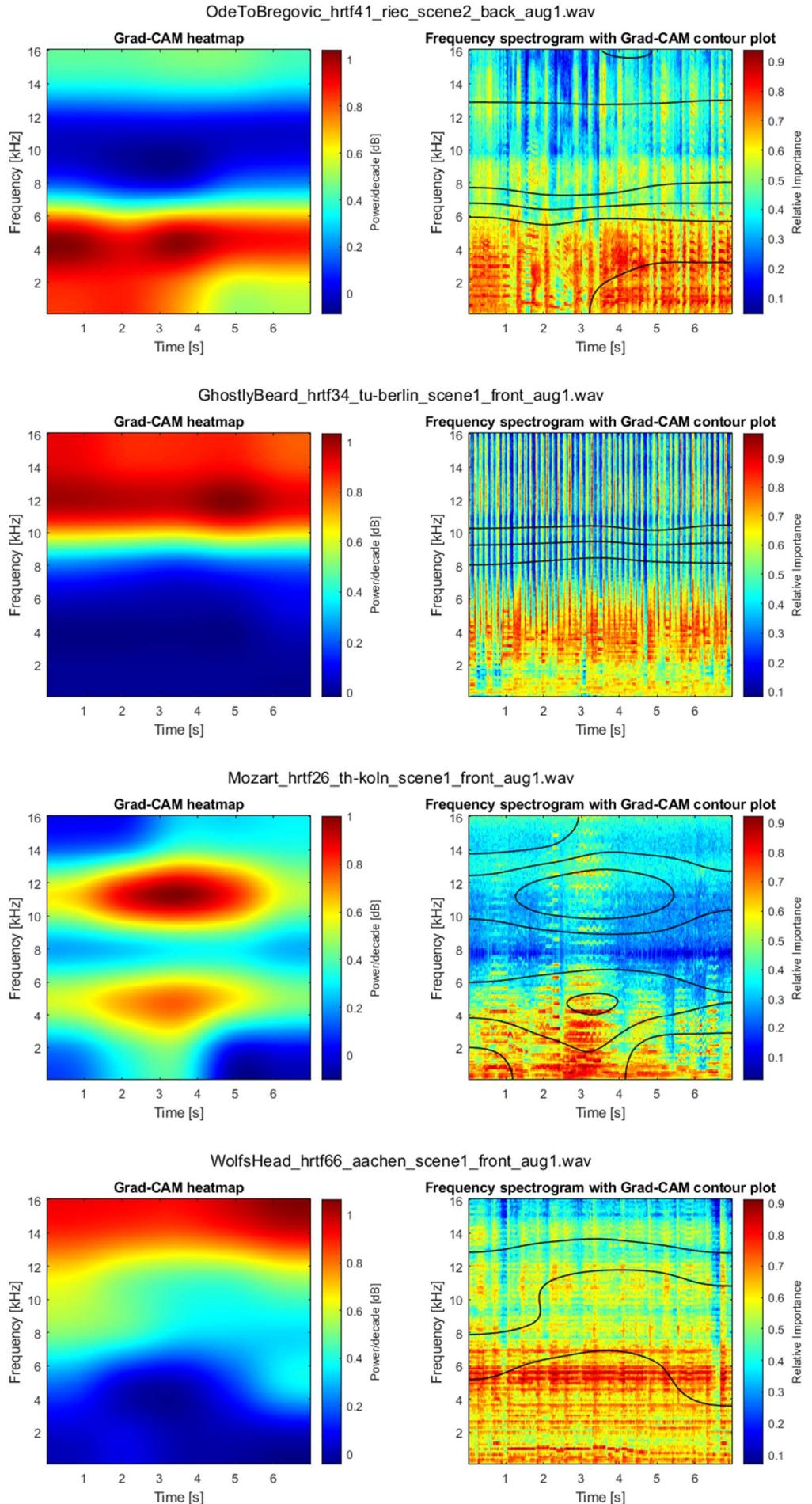


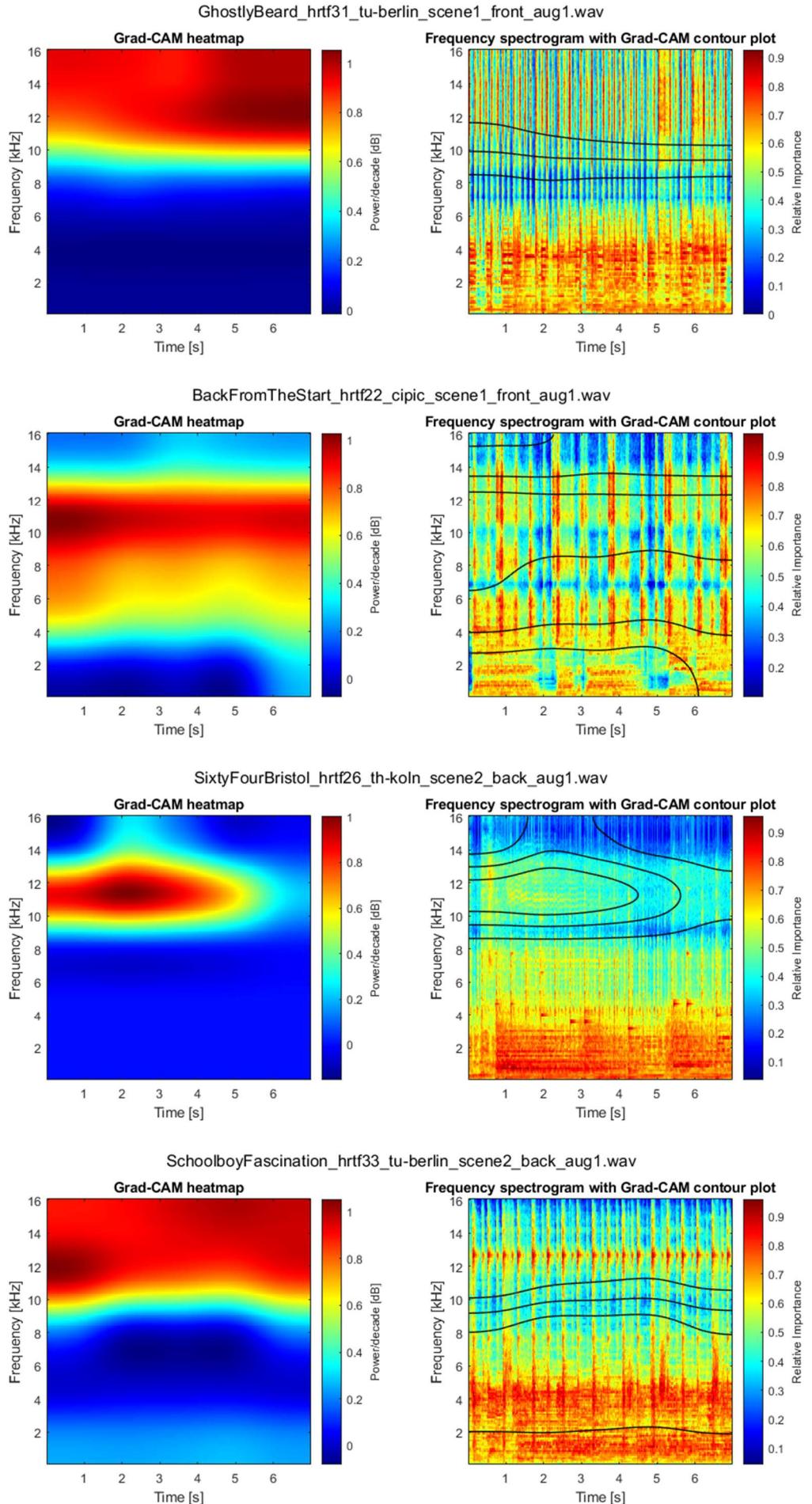
Grad-CAM

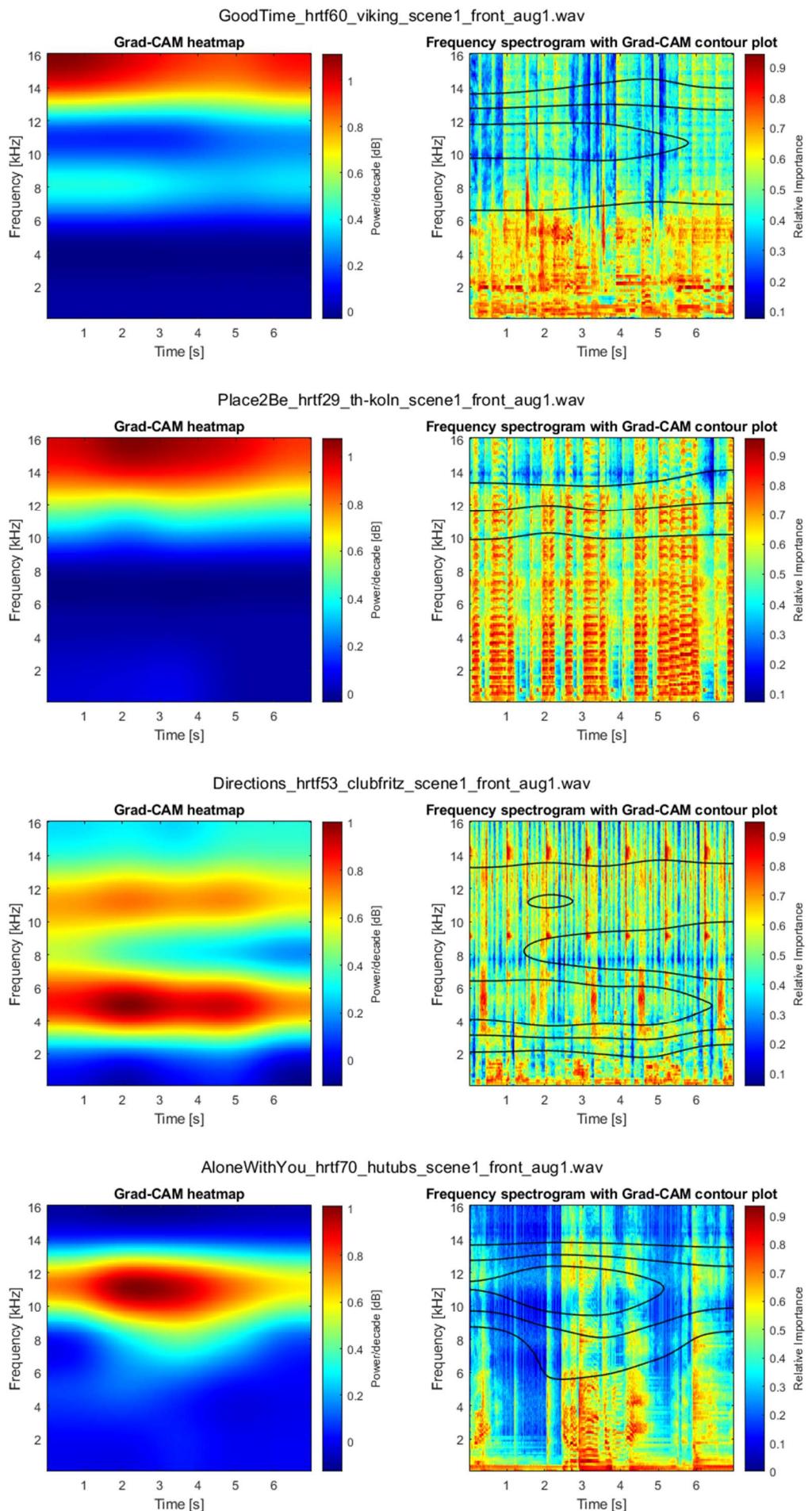
Grad-CAM score maps for random selected samples

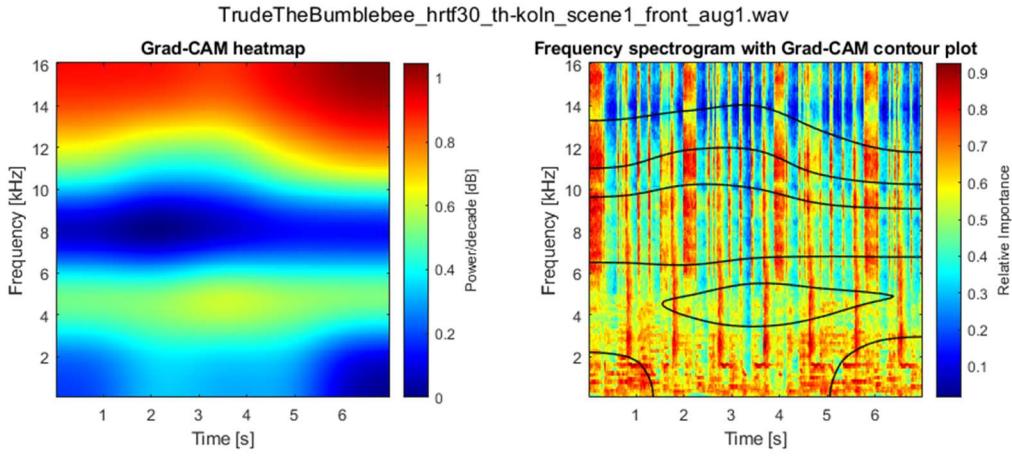








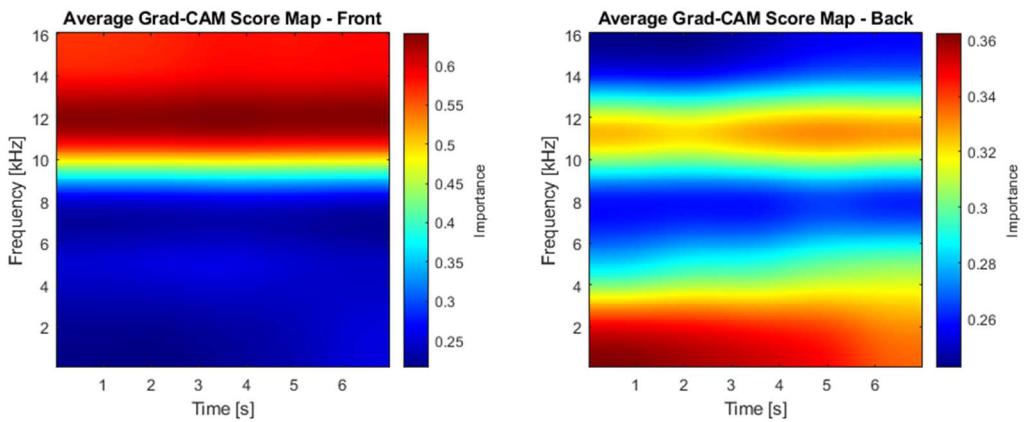
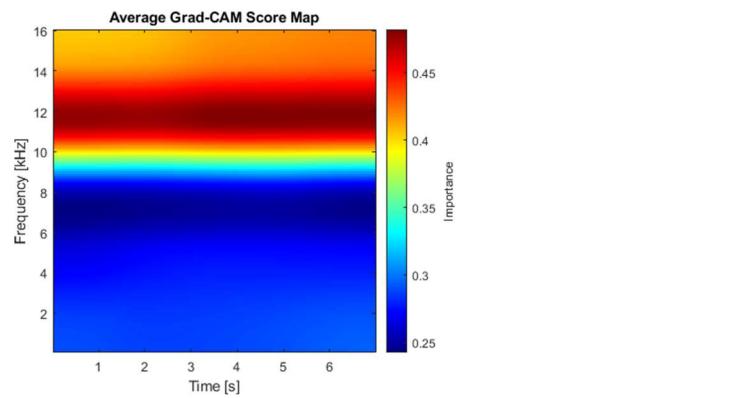




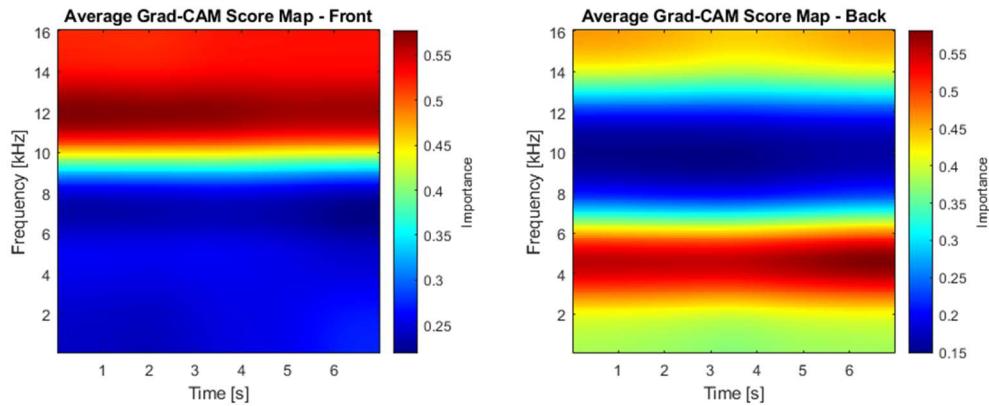
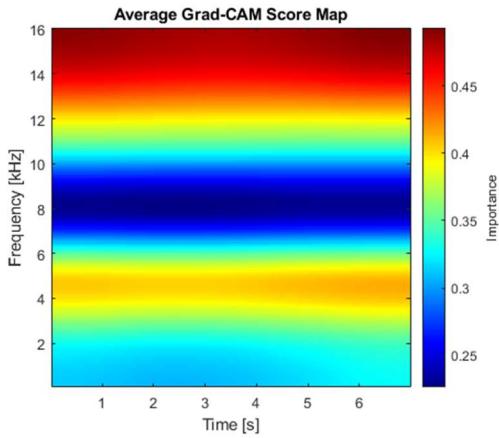
Averaged Grad-CAM score maps

Averaged Grad-CAM score maps: 1. global; 2. grouped by label. Four networks with the same architecture and the same hyperparameters were trained. All other examples in this chapter are for the first network.

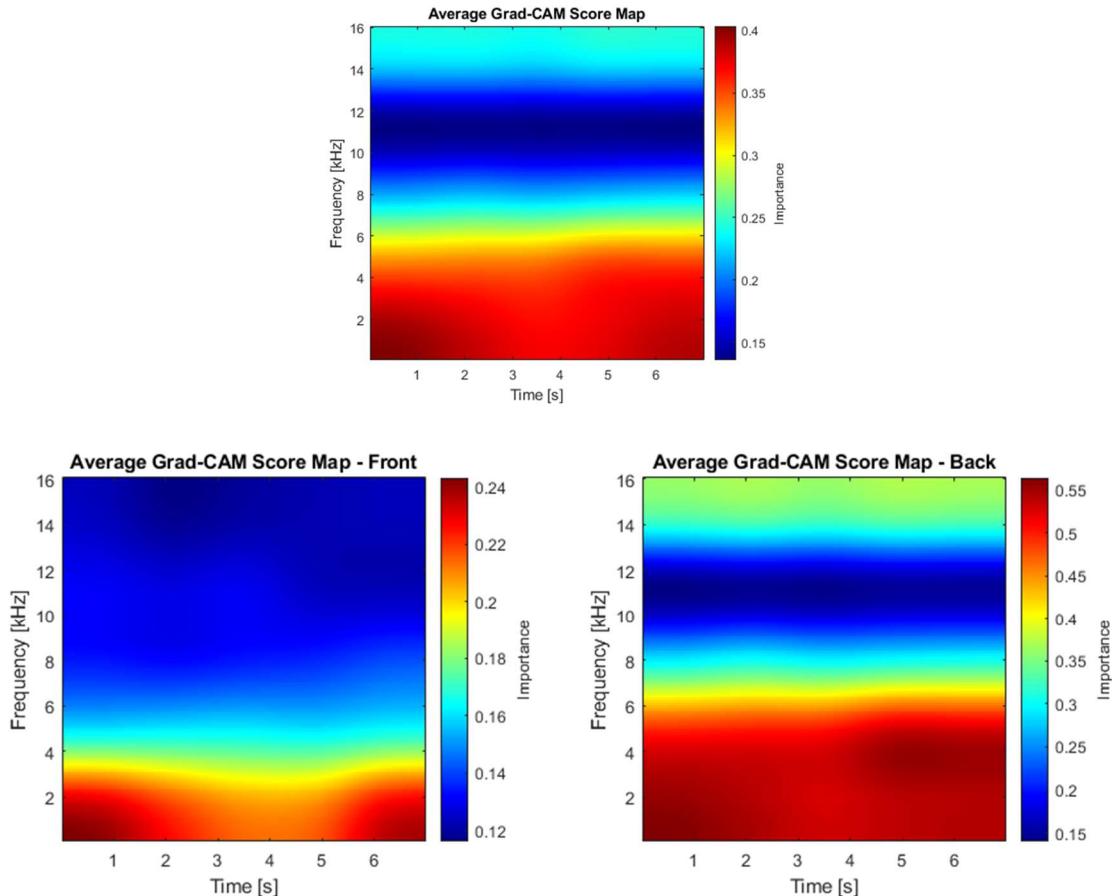
The result of the first network:



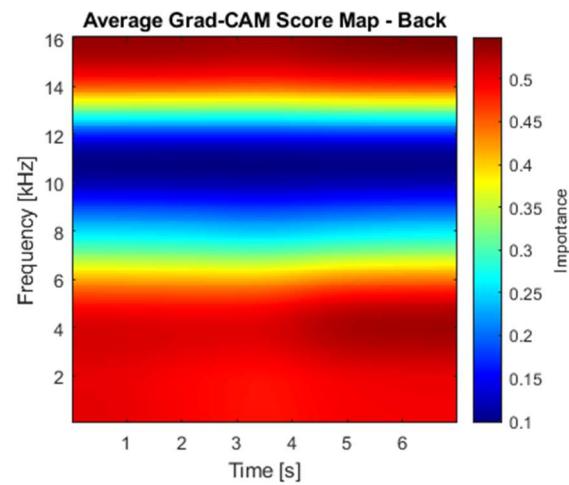
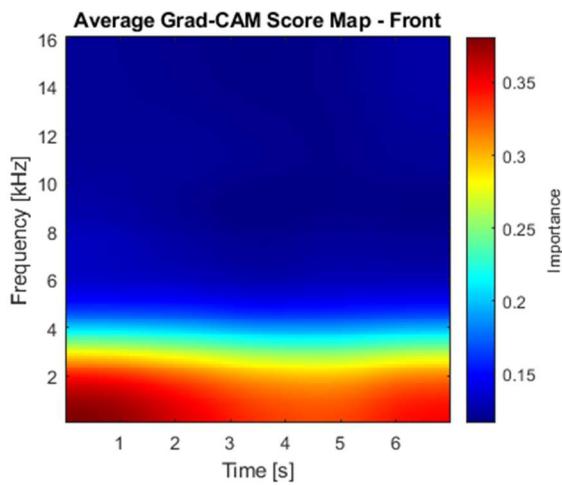
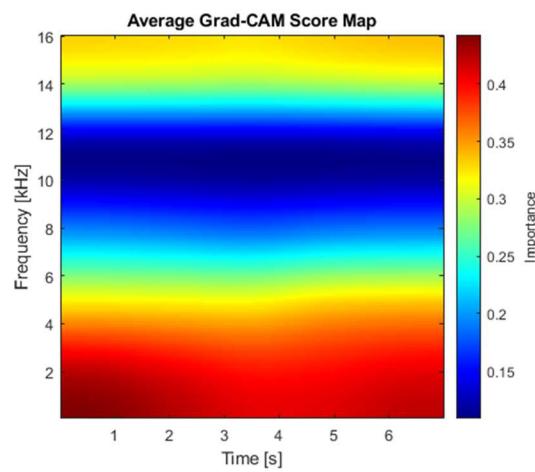
The result of the second network:



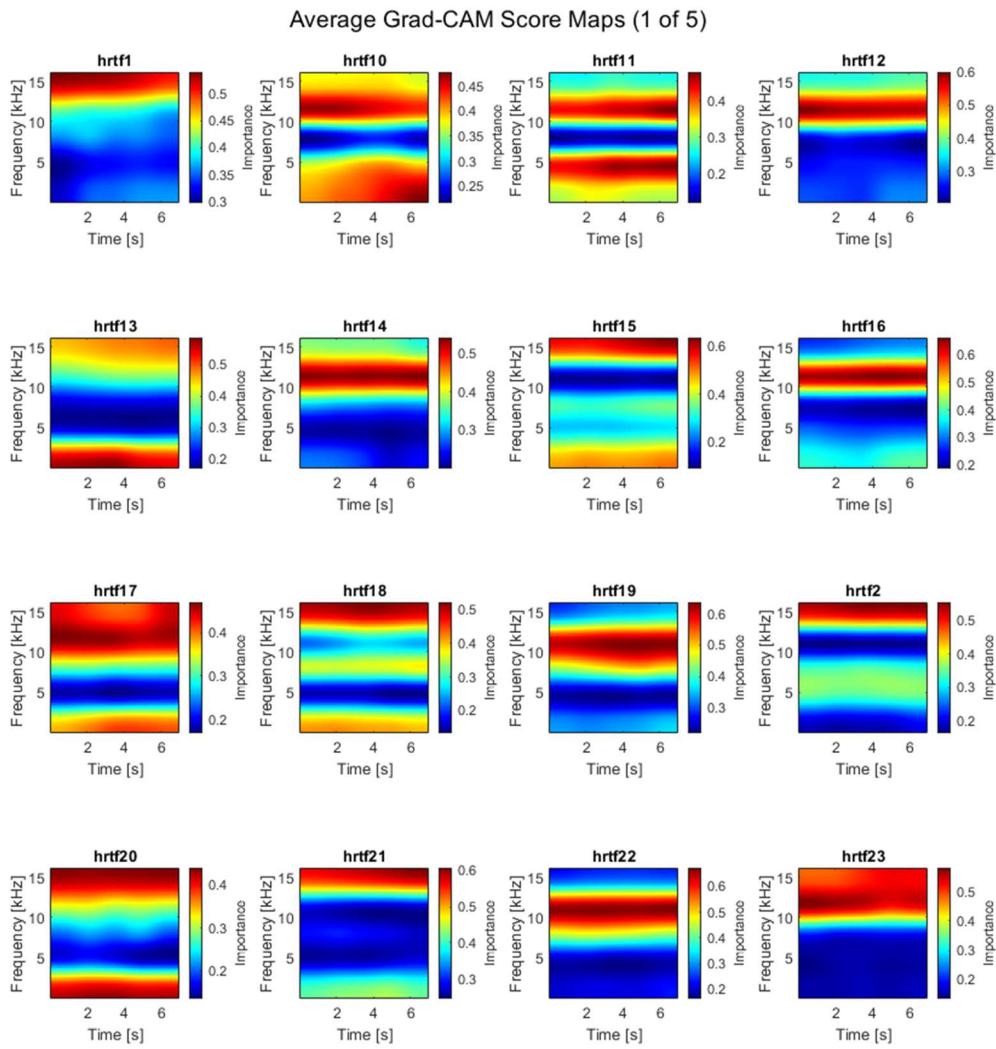
The result of the third network:



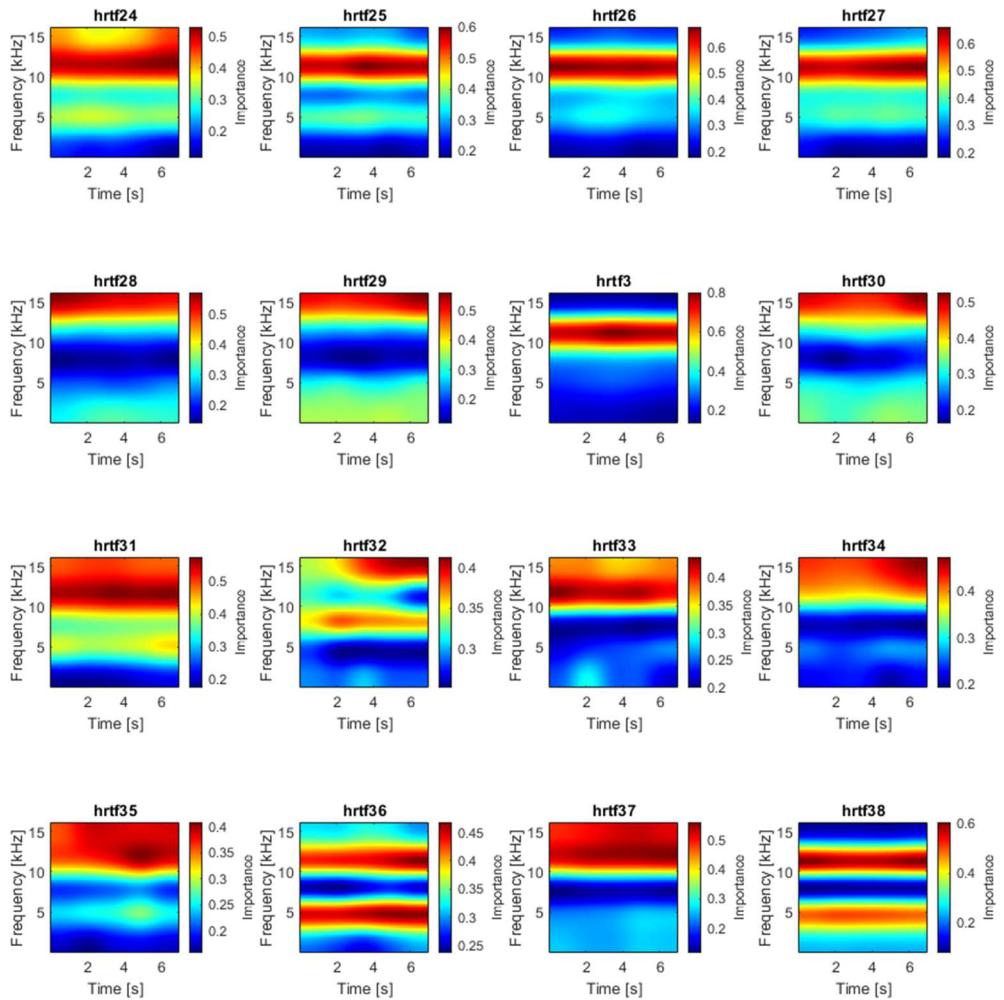
The result of the fourth network:



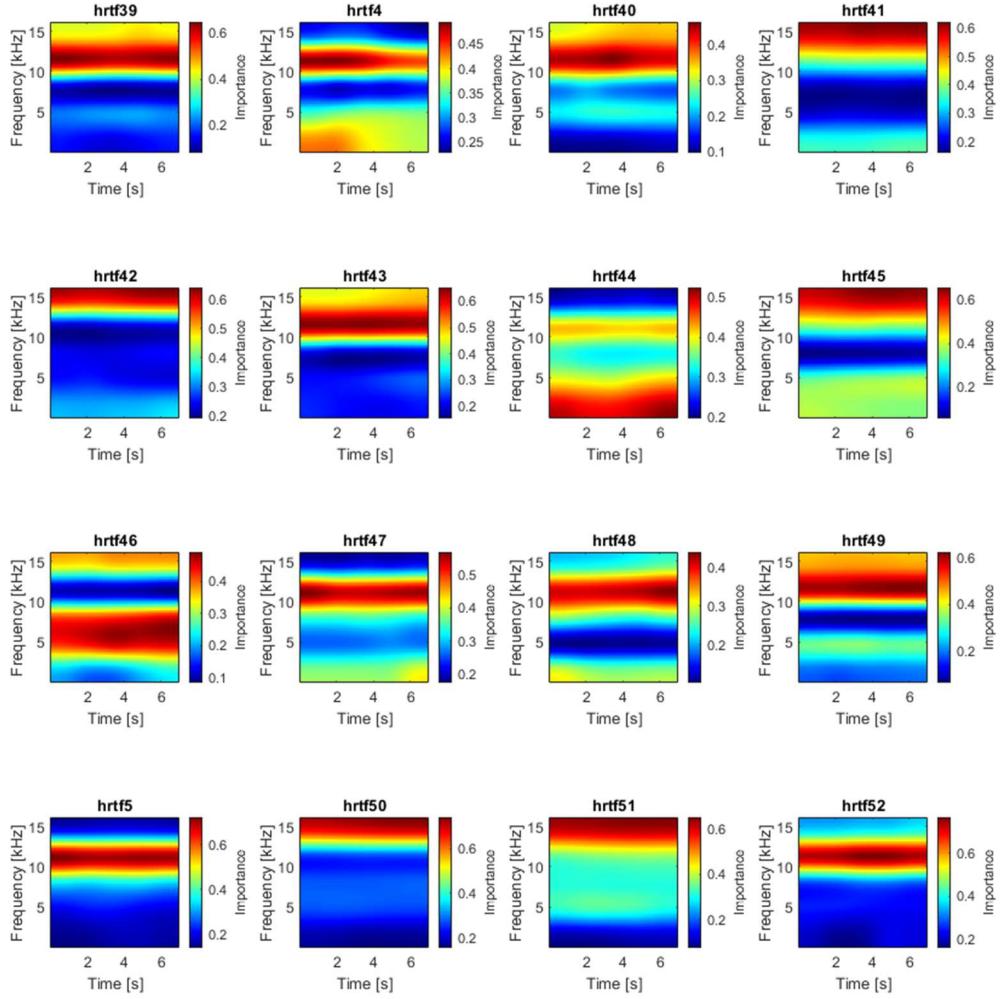
Averaged Grad-CAM score maps grouped by HRTF function



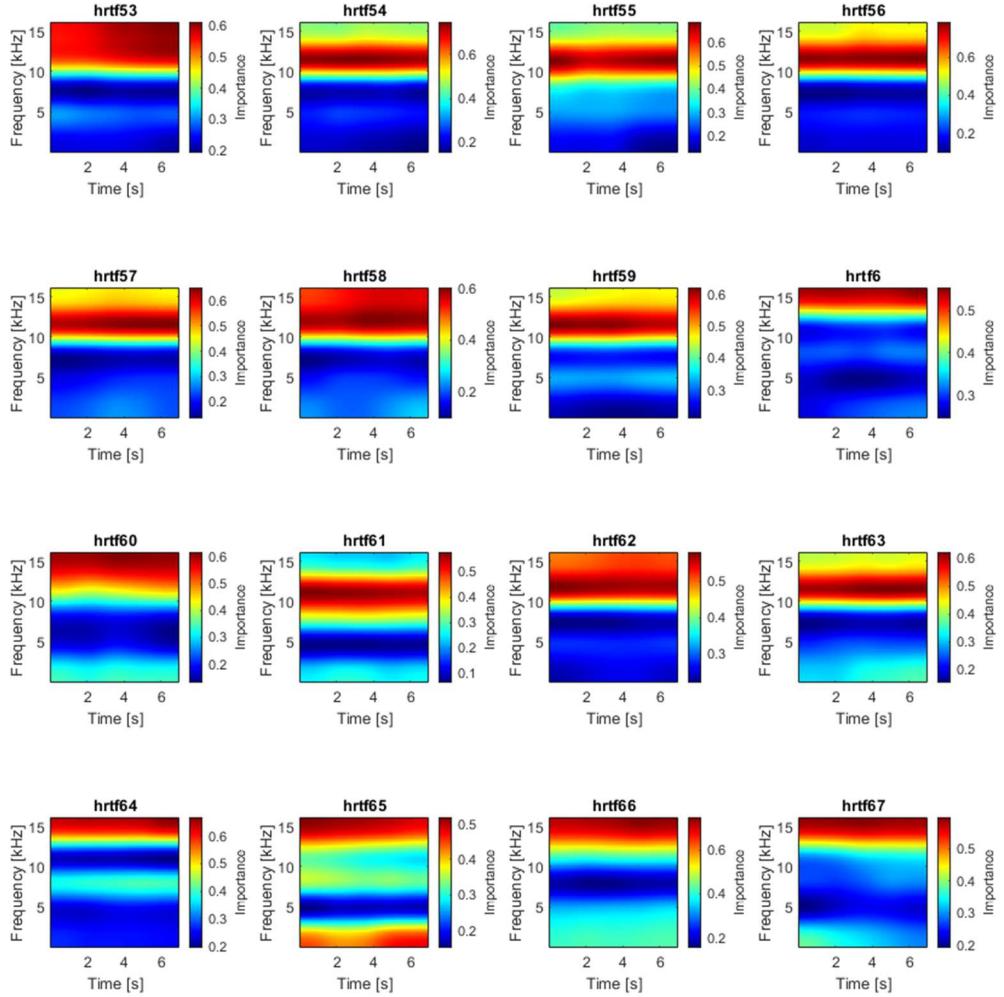
Average Grad-CAM Score Maps (2 of 5)



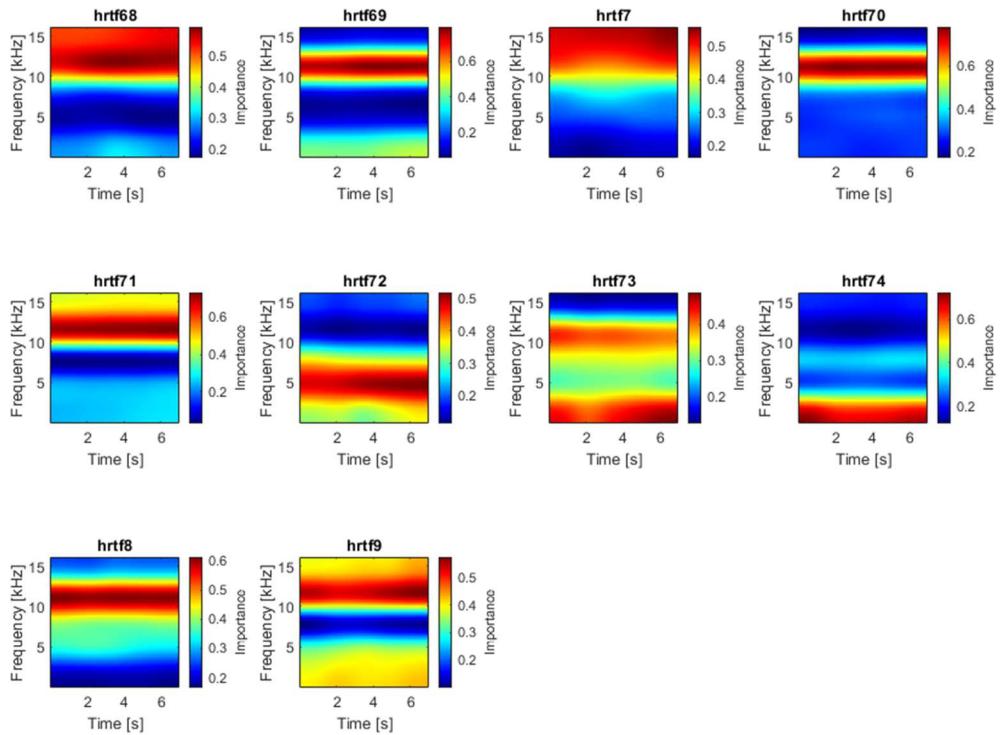
Average Grad-CAM Score Maps (3 of 5)



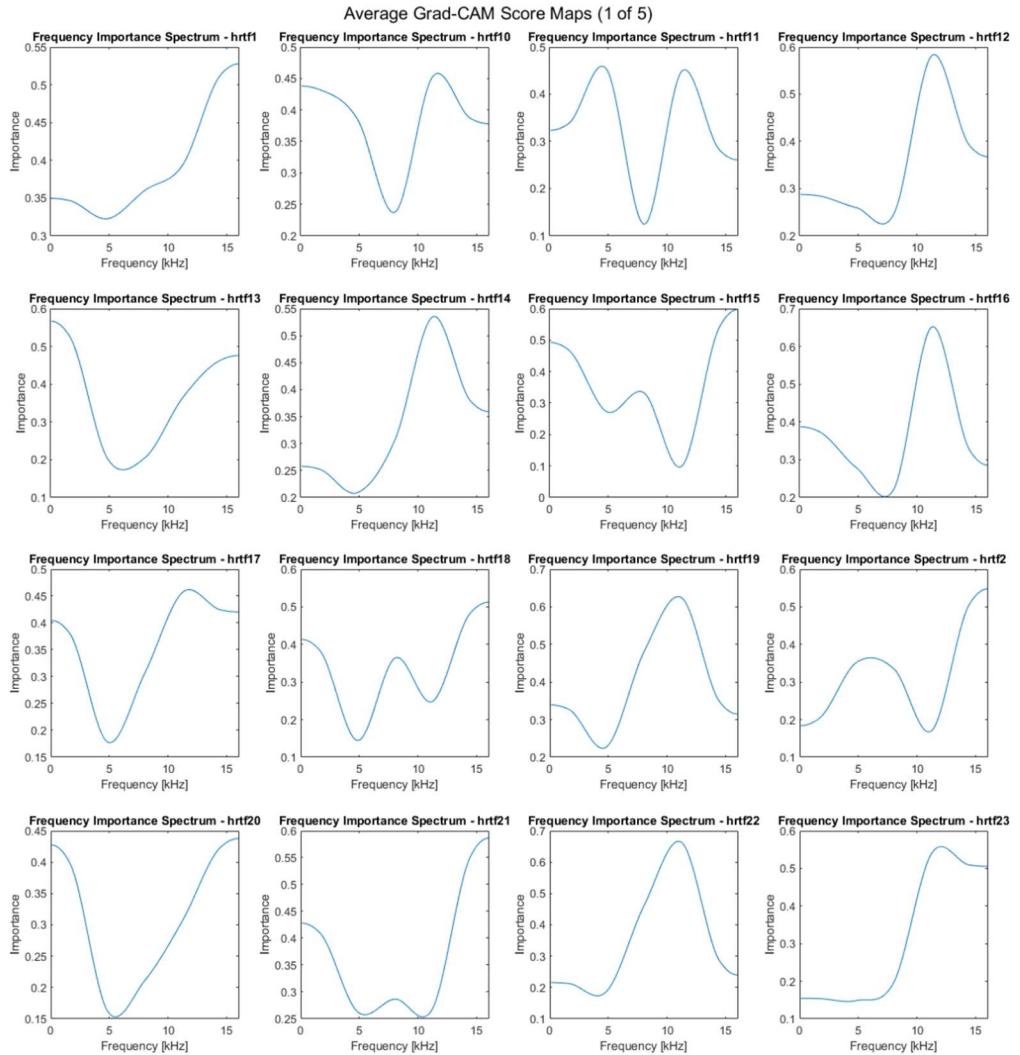
Average Grad-CAM Score Maps (4 of 5)



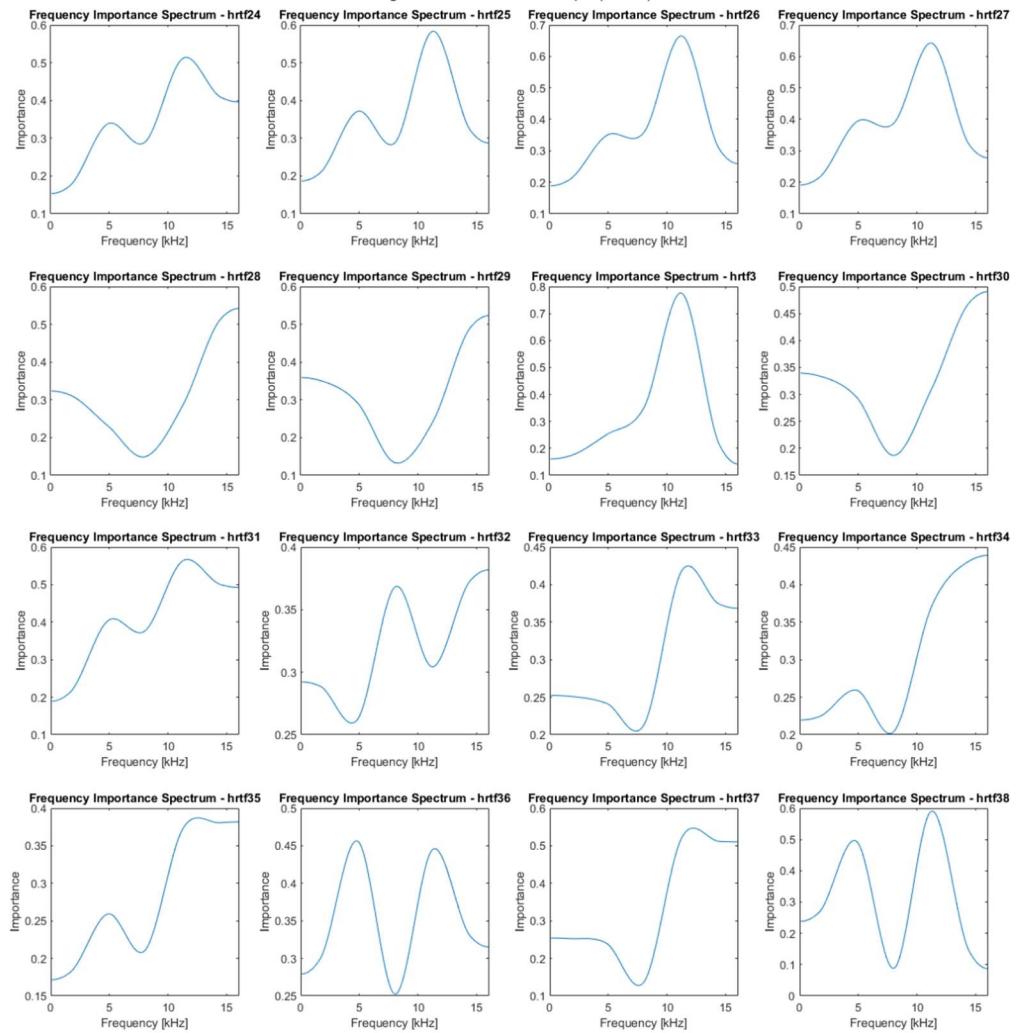
Average Grad-CAM Score Maps (5 of 5)



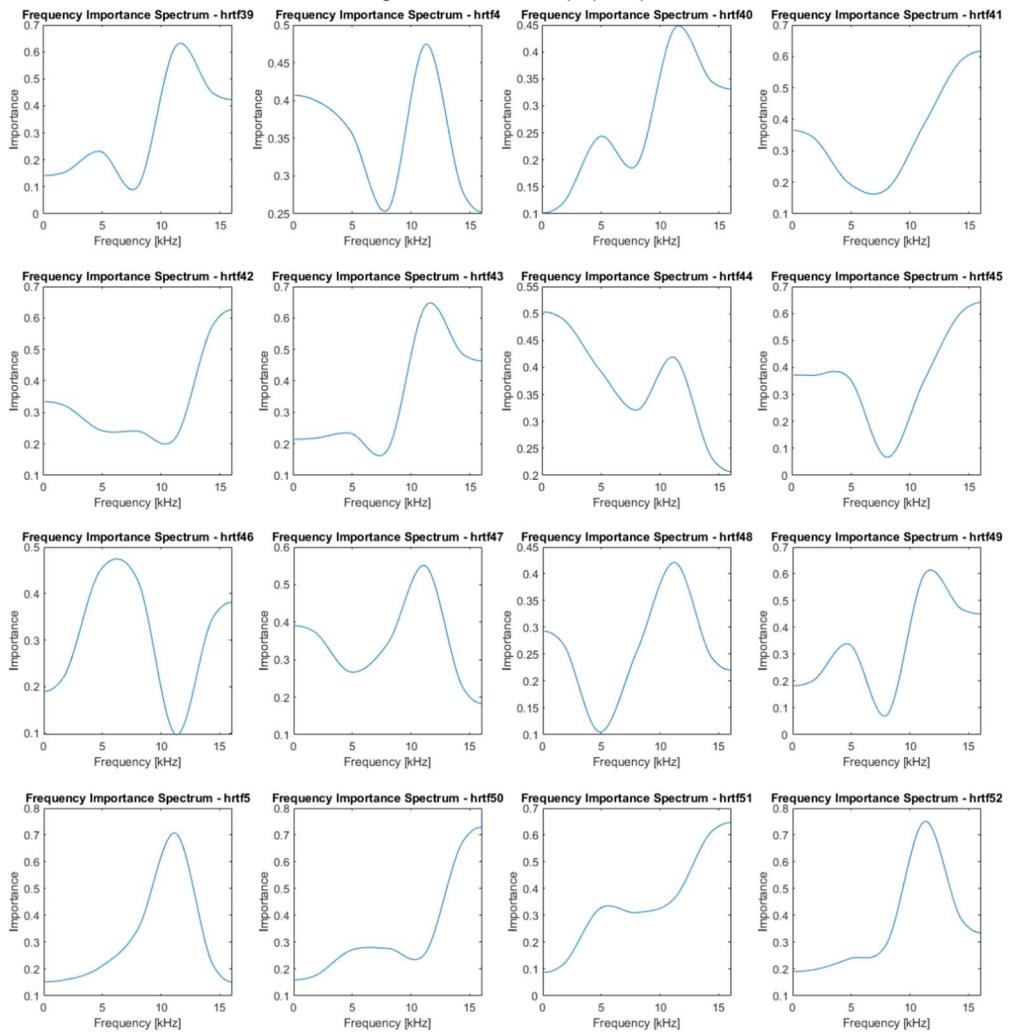
Frequency Importance Curves by HRTF function



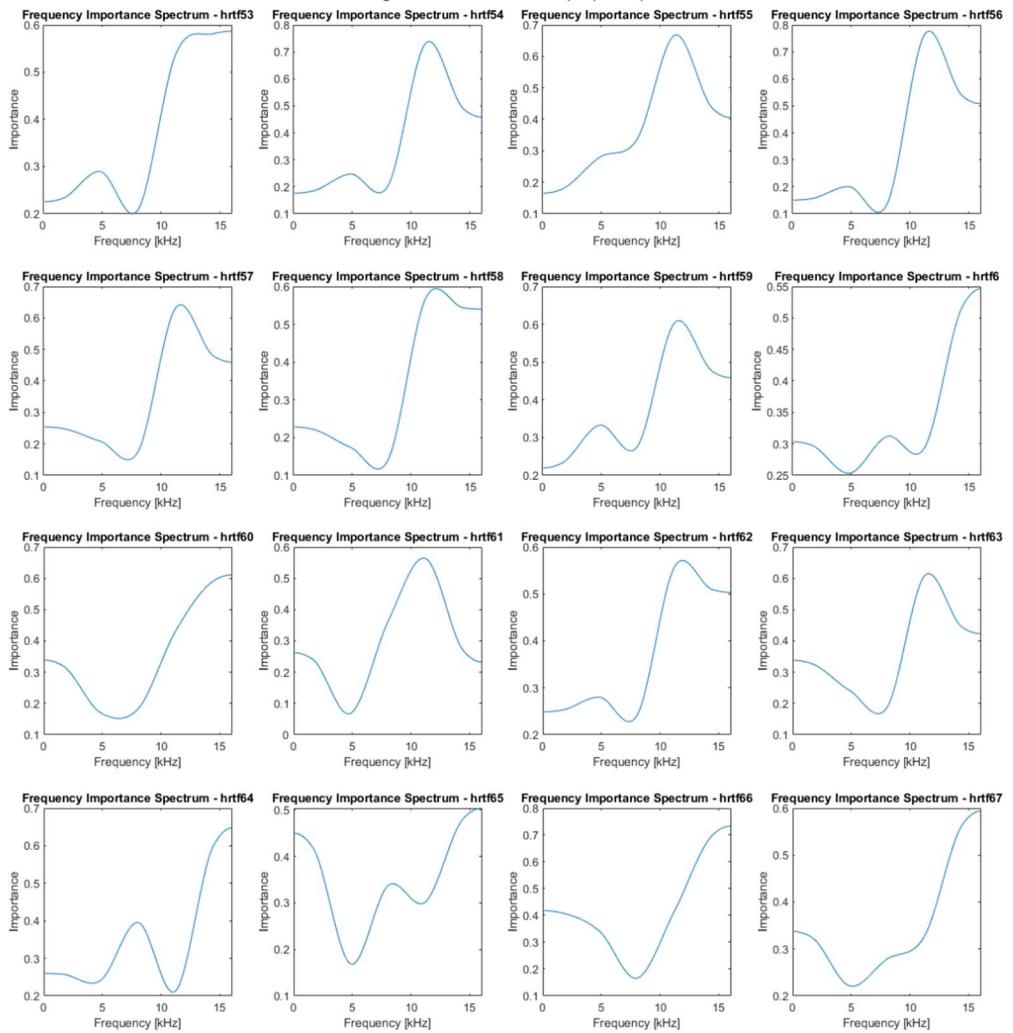
Average Grad-CAM Score Maps (2 of 5)

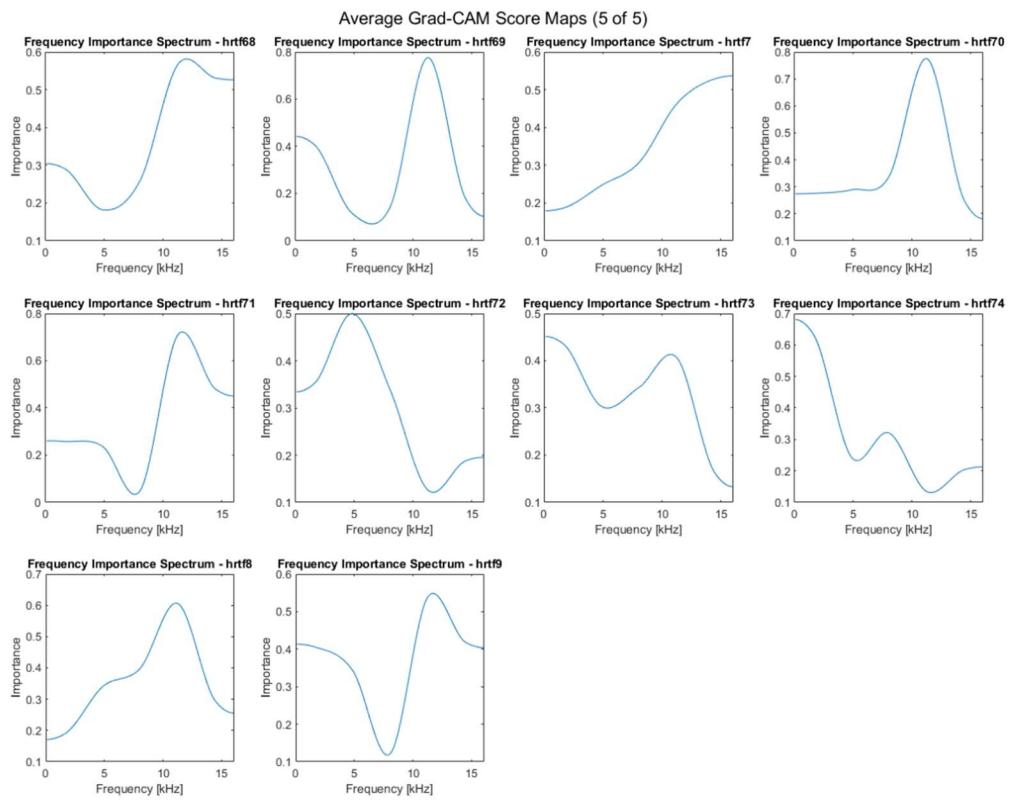


Average Grad-CAM Score Maps (3 of 5)



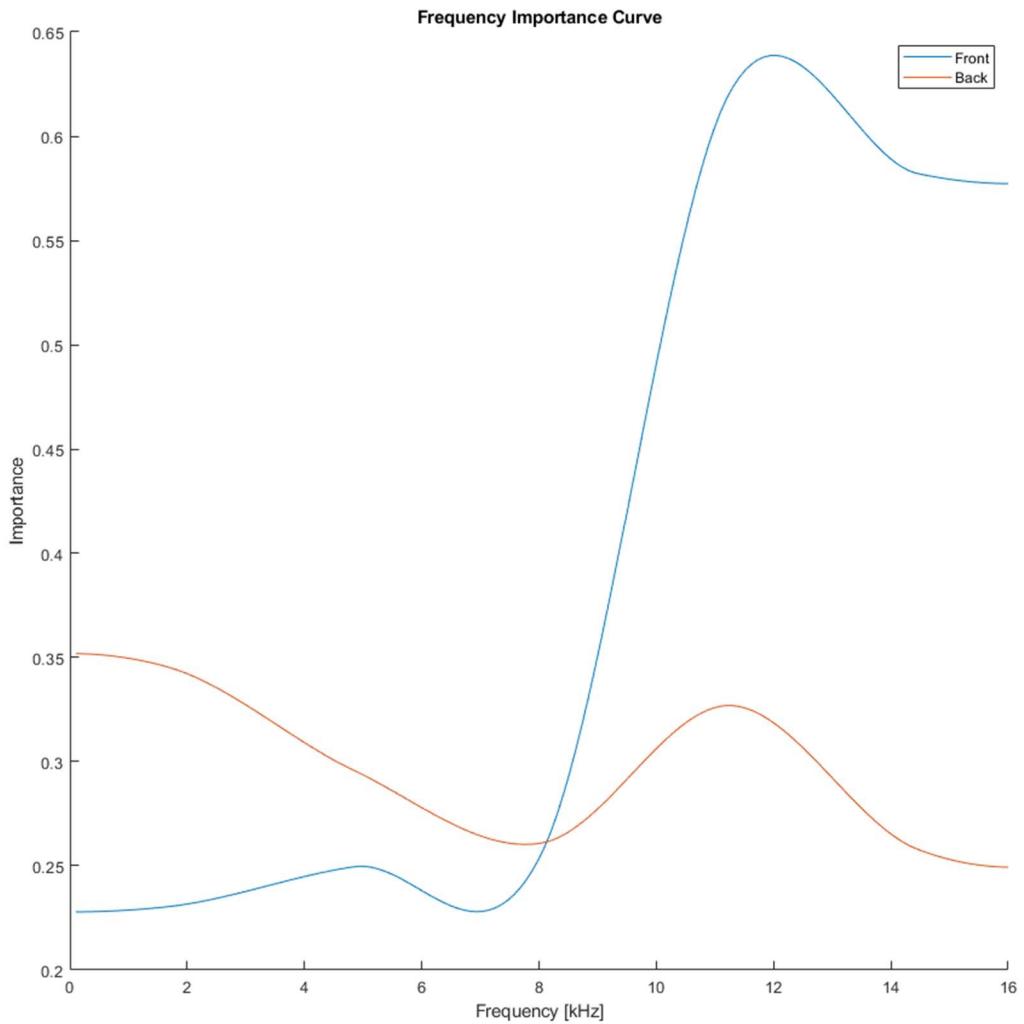
Average Grad-CAM Score Maps (4 of 5)





Frequency Importance Curve

Obtained by flattening the Grad-CAM heatmap.



Frequency Importance Curve for each HRTF function separately

