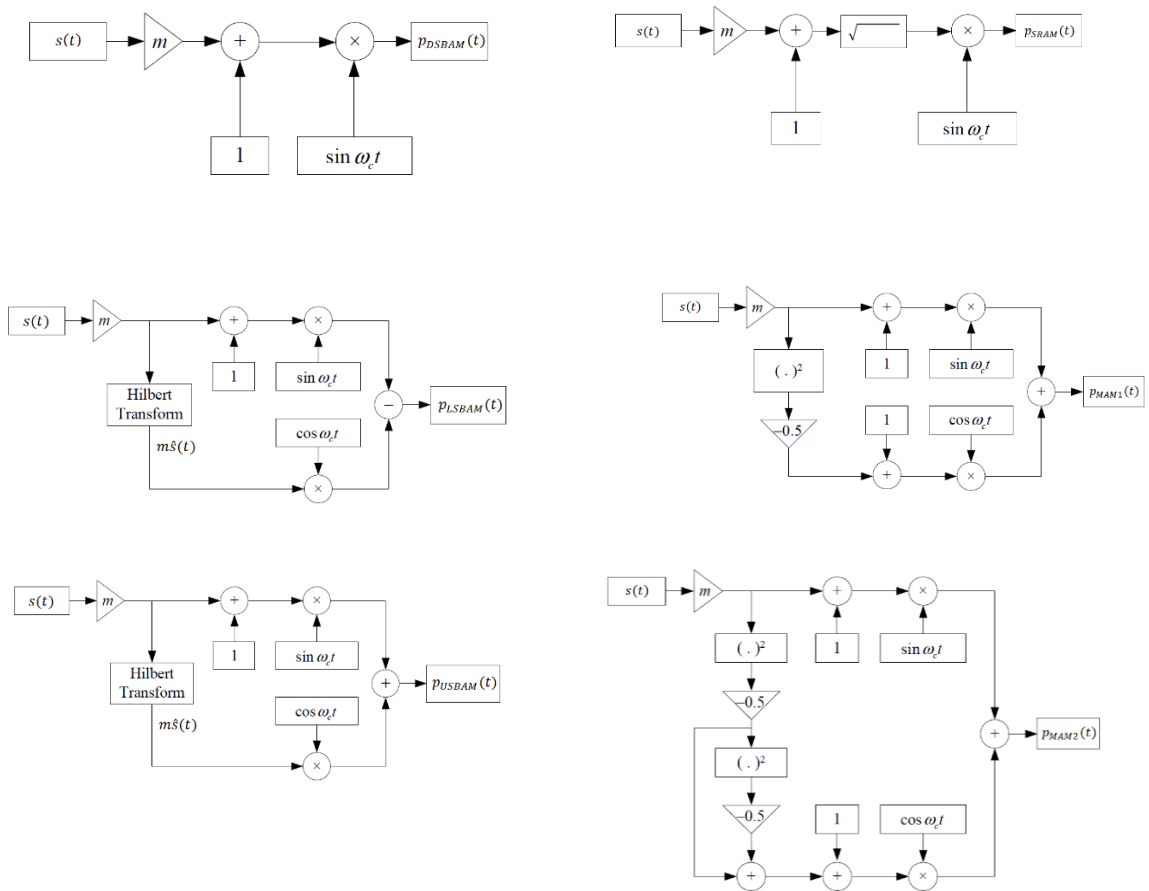
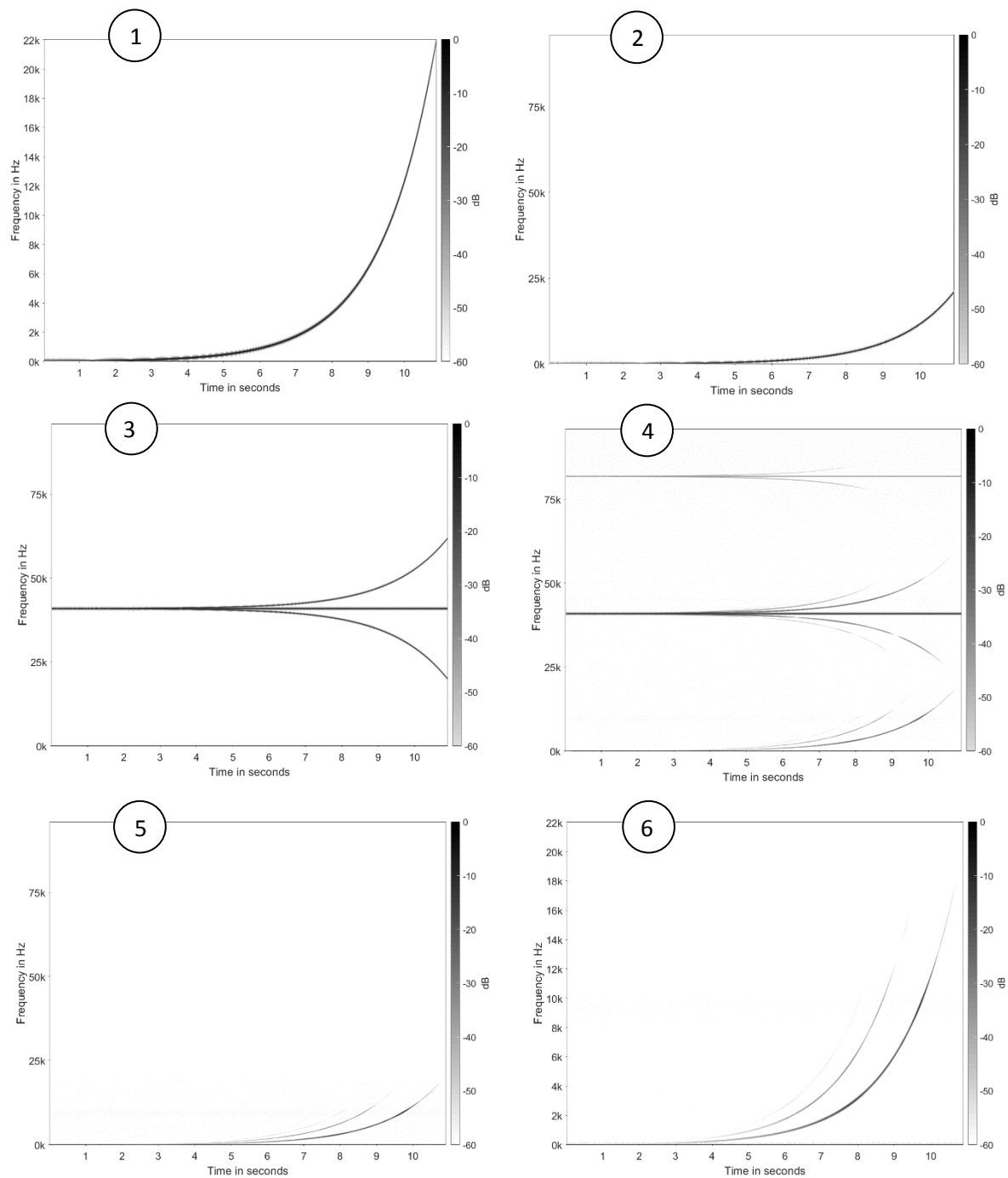


Supplementary Table I. Main characteristics of the evaluated microphones

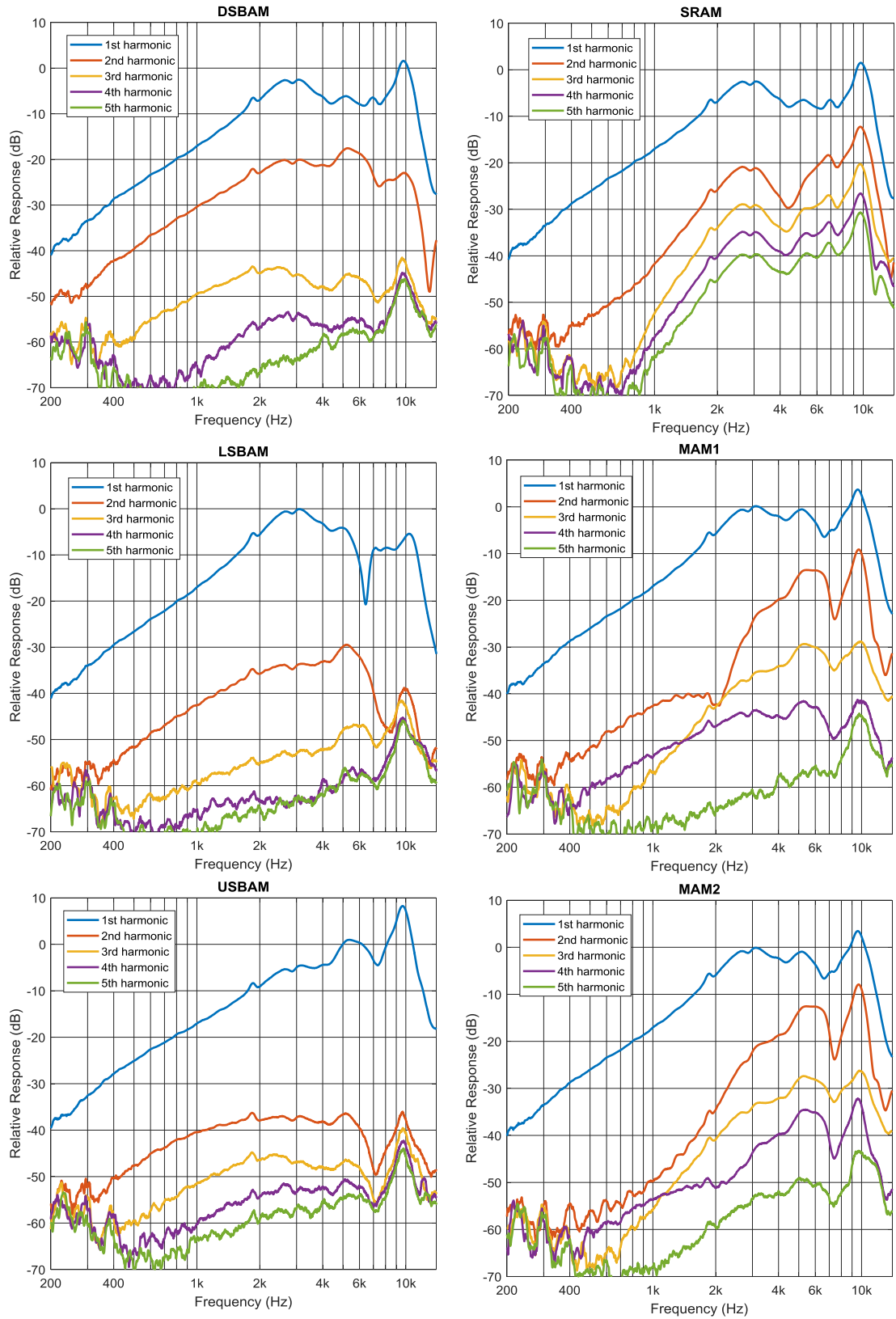
	Microphone	Type	Frequency Response	Sensitivity	
				dB re 1 V/Pa	mV/Pa
GRO	GRAS AC40	Condenser	4 Hz – 40 kHz	-38.4	12.5
BHO	Behringer ECM8000	Condenser	15 Hz – 20 kHz	-39.2	11.0
SH7	Shure SM57	Dynamic	40 Hz – 15 kHz	-55.9	1.6
BHX	Behringer XM8500	Dynamic	50 Hz – 15 kHz	-70.4	0.3
BCT	BCT MD1	Dynamic	100 Hz – 10 kHz	-53.0	2.2



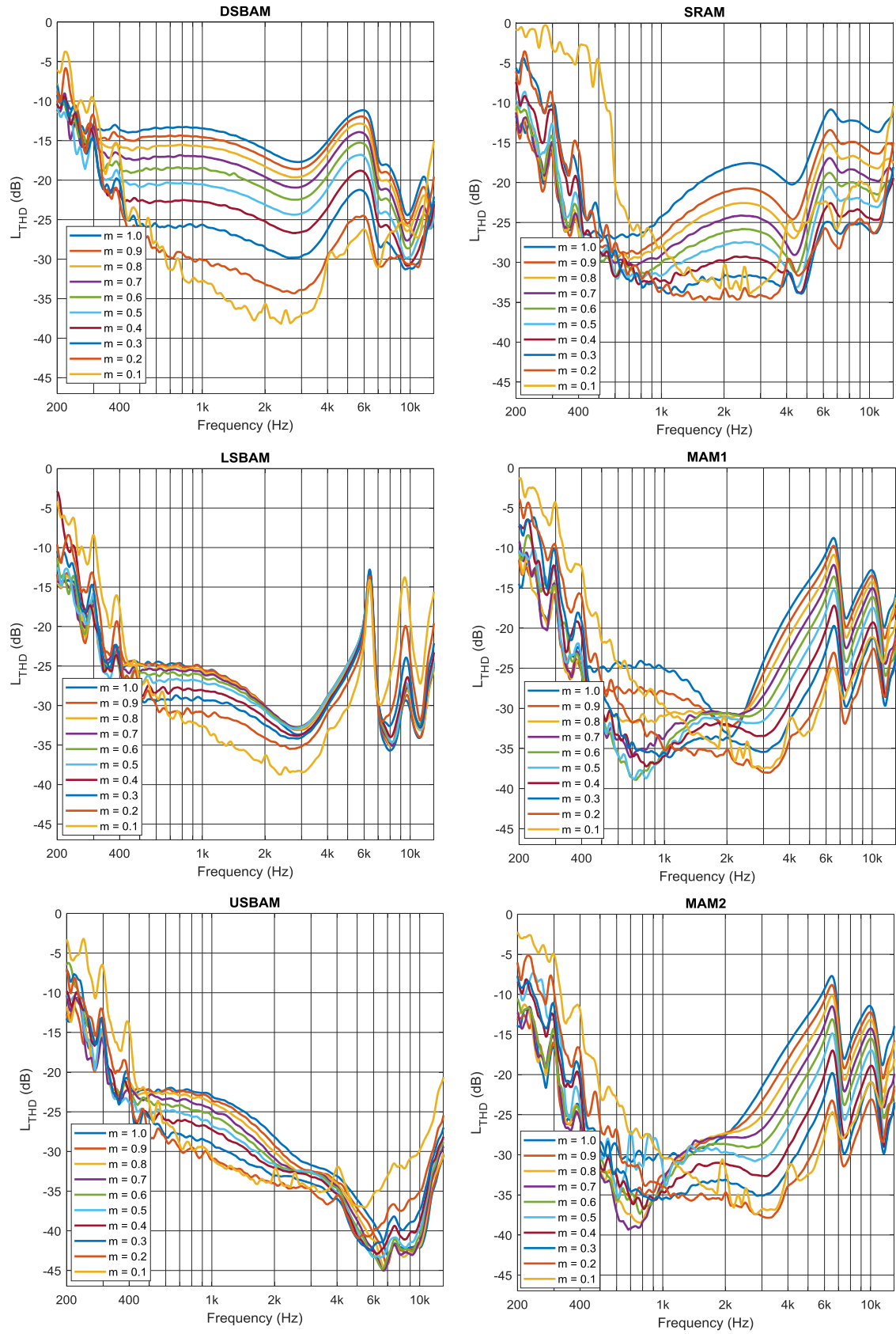
Supplementary Figure 1. Block diagrams of preprocessing amplitude modulation techniques: Double Side Band Amplitude Modulation (DSBAM), Lower Side Band Amplitude Modulation (LSBAM), Upper Side Band Amplitude Modulation (USBAM), Square Root Amplitude Modulation (SRAM), Modified Amplitude Modulation 1 (MAM1) and 2 (MAM2).



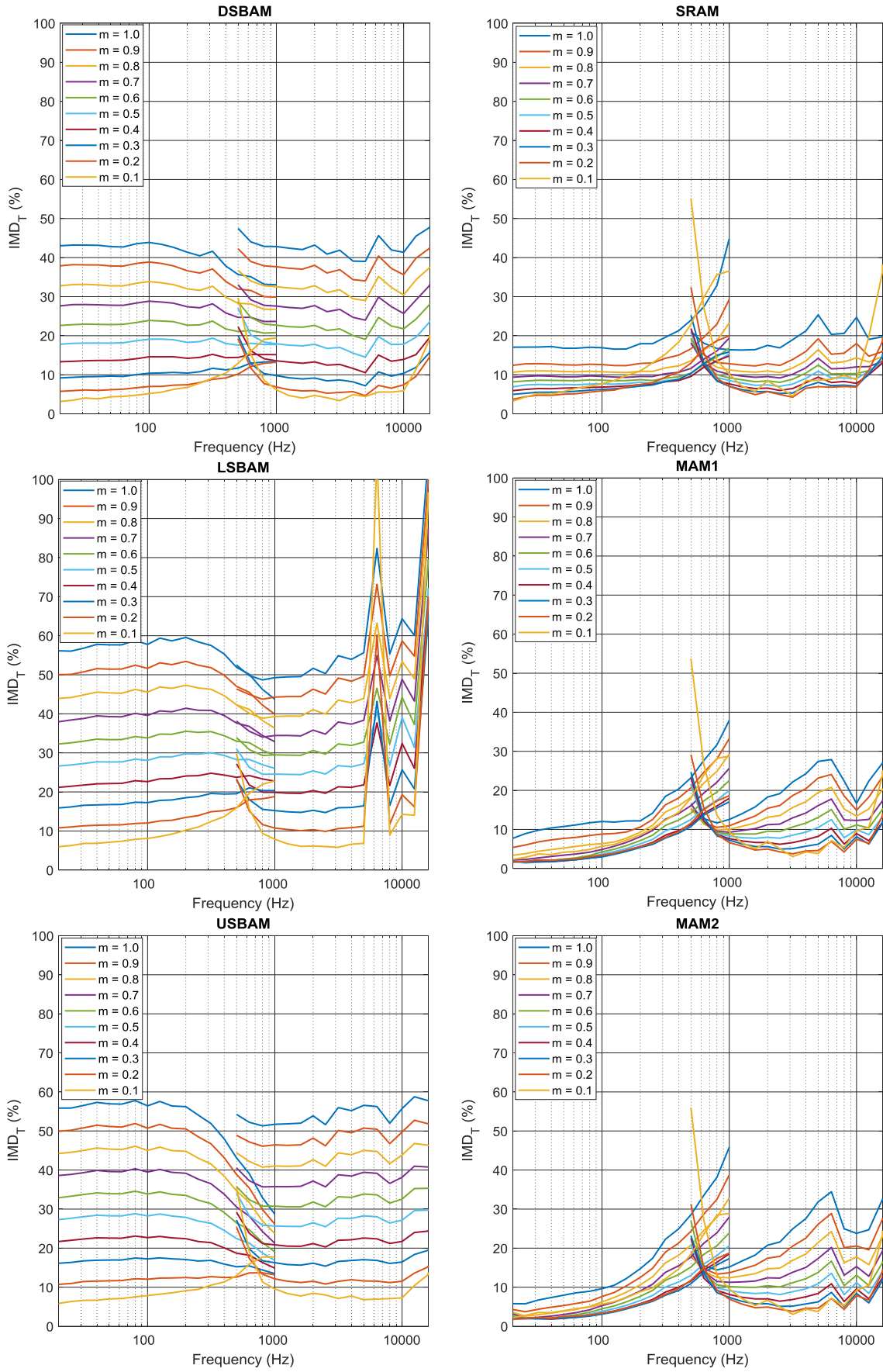
Supplementary Figure 2. Spectrogram of the signals corresponding to each stage of the measurement procedure.



Supplementary Figure 3. Harmonics up to the 5th order measured with the predistortion techniques ($m = 1$)



Supplementary Figure 4. Level of Total Harmonic Distortion (L_{THD}) for the predistortion techniques at different modulation indices.



Supplementary Figure 5. Intermodulation Distortion (IMD_T) for the predistortion techniques applied with different levels of modulation index (m). The lines to the left of the discontinuity have their frequency combined with 60 Hz; the lines to the right are combined with a tone of 7 kHz.