Centralized MWF noise reduction -- $\beta = 0.999938$ $\hat{d}_1(t,f)$ $y_1(t, f)$ $d_1(t, f)$ 8.0 -7.0 --20 6.0 -- 40 5.0 *f* [kHz] - -60 3.0 -- 80 2.0 --100 1.0 -0.0 -1200.0 2.5 10.0 12.5 12.5 10 5.0 7.5 0.0 2.5 5.0 7.5 10.0 0 t [s] t [s] *t* [s]