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 -12010.0 12.5 12.5 10 0.0 2.5 5.0 7.5 0.0 2.5 5.0 7.5 10.0 0 t [s] t [s] t [s]