Centralized MWF noise reduction -- β = 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 -12012.5 12.5 2.5 5.0 10.0 0.0 2.5 5.0 10.0 10 0.0 7.5 7.5 0 t [s] *t* [s] t [s]