

Sea detuning sweep report (Ga sea / Al rare)

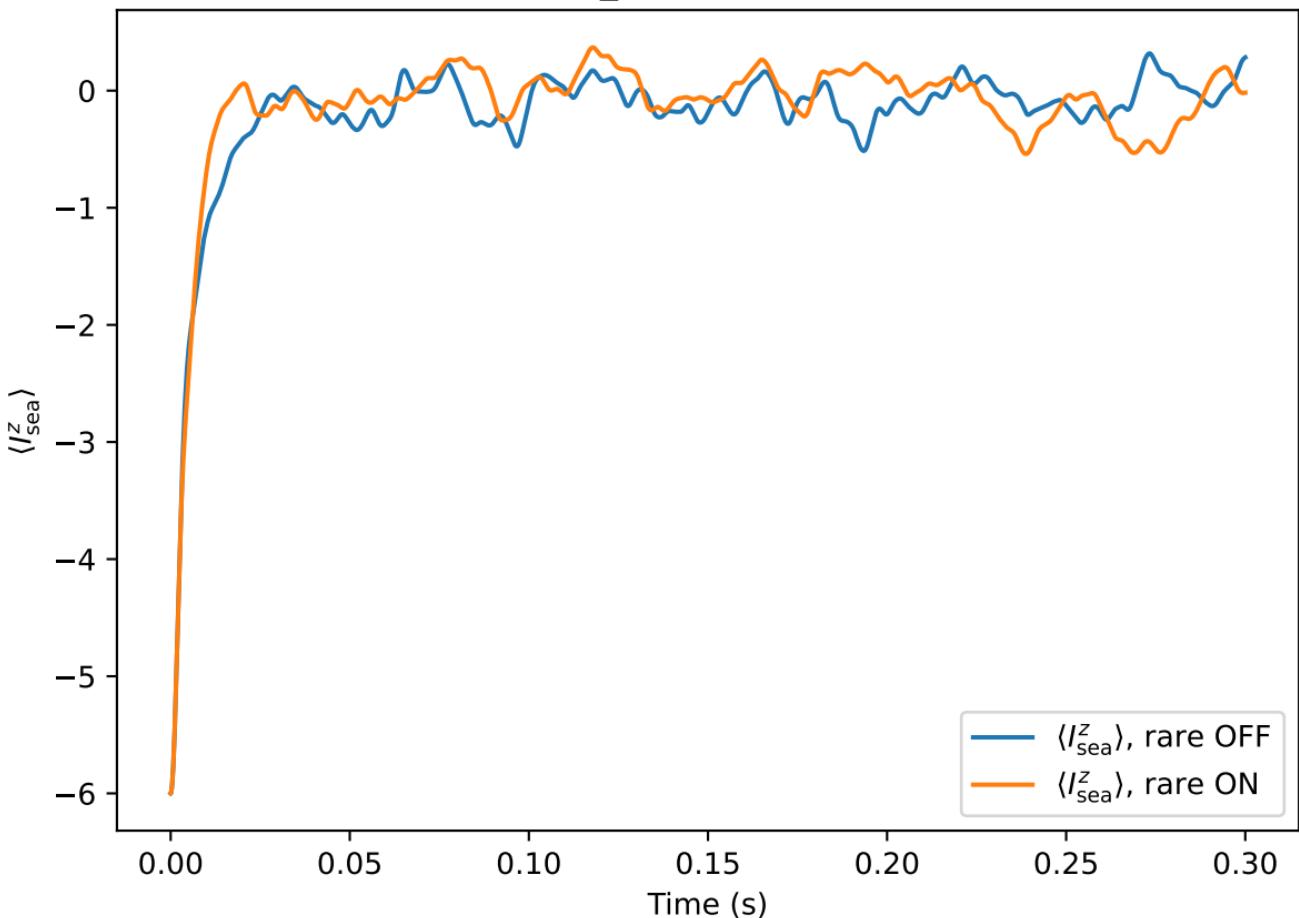
Global parameters (constant across sweep):

f_Az (sea Larmor)	= 39.062 MHz
f_Rz (rare Larmor)	= 33.308 MHz
f1A (sea Rabi)	= 0.020 kHz
f1R (rare Rabi)	= 20.000 kHz
gamma_sea	= 8.181e+07 rad·s ⁻¹ ·T ⁻¹
gamma_rare	= 6.976e+07 rad·s ⁻¹ ·T ⁻¹
B0_common	= 3.000 T
B1_sea	= 1.536e-06 T
B1_rare	= 1.801e-03 T
dipolar_scale_SI	= 1.055e-41
shell_scale	= 0.300 nm
t_final	= 3.000e-01 s
steps	= 20000
n_sea	= 12
phi_sea	= 1.571 rad
phi_rare	= 1.571 rad
sea_spin_type	= 1/2
rare_spin_type	= 1/2

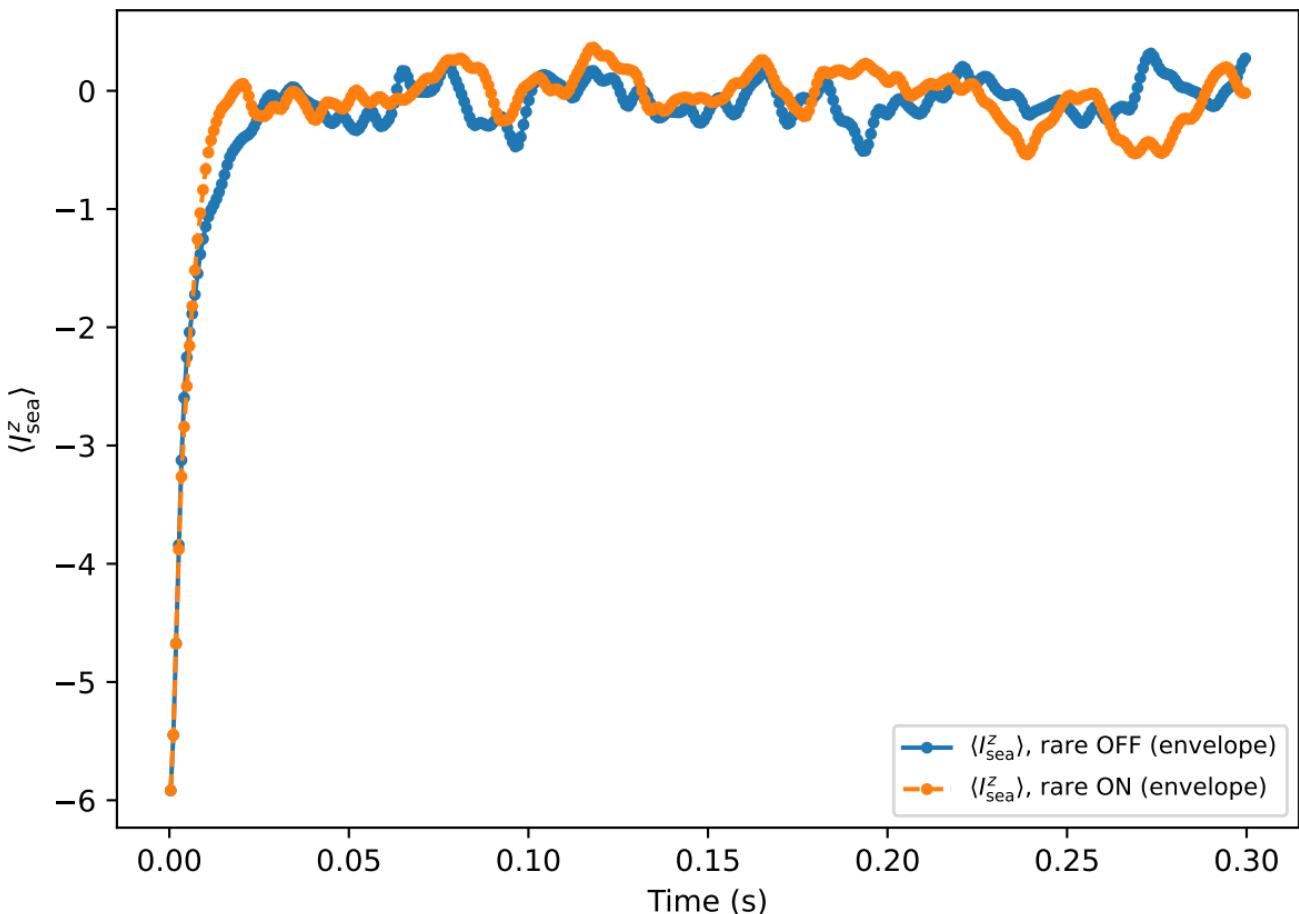
Sea detunings ($\delta_A = f_{Az} - f_{rf,A}$) in Hz:

+0.0, +1.1, +2.2, +3.3, +4.4, +5.6, +6.7, +7.8, +8.9, +10.0

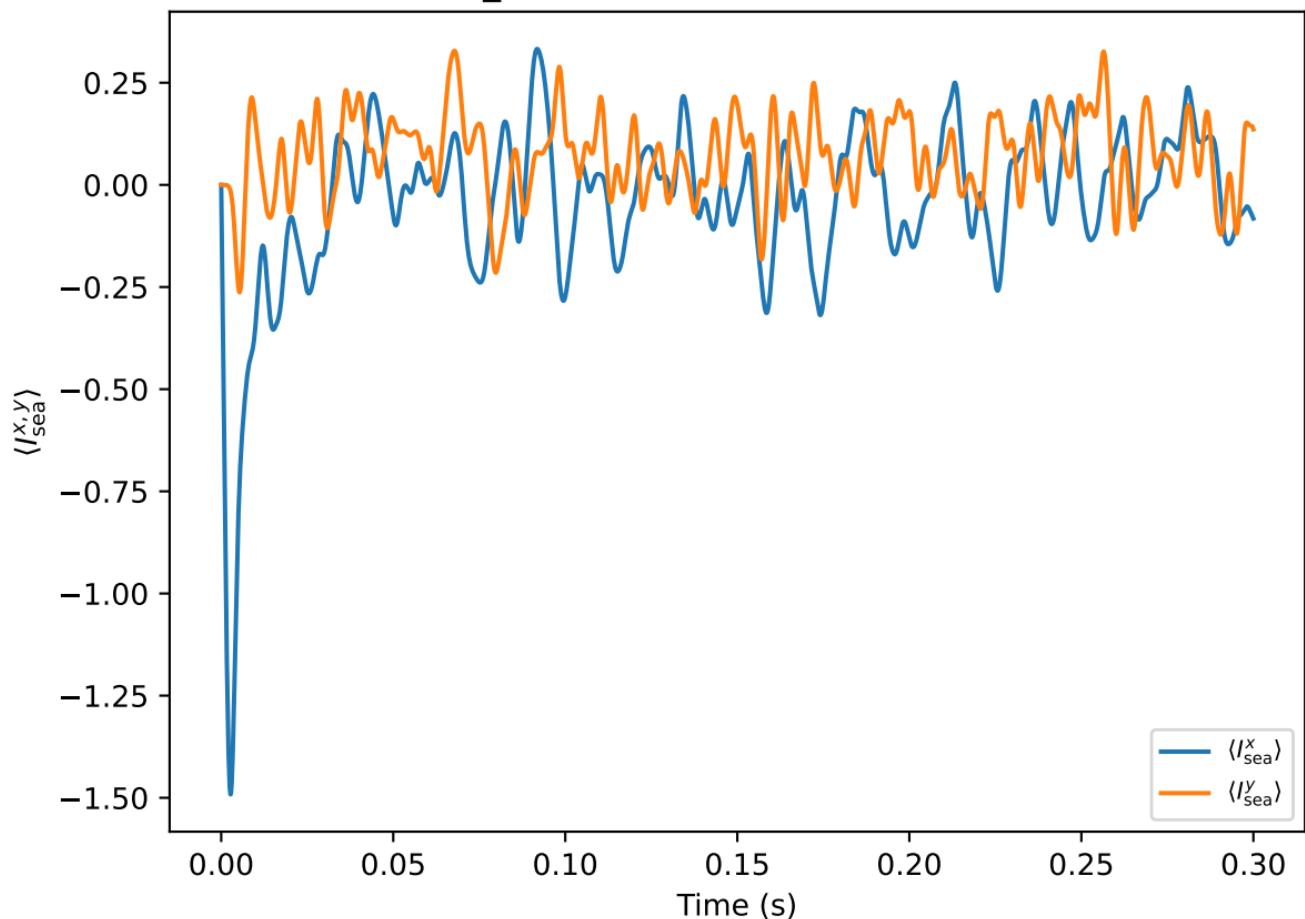
$\delta_A = +0.0 \text{ Hz}$



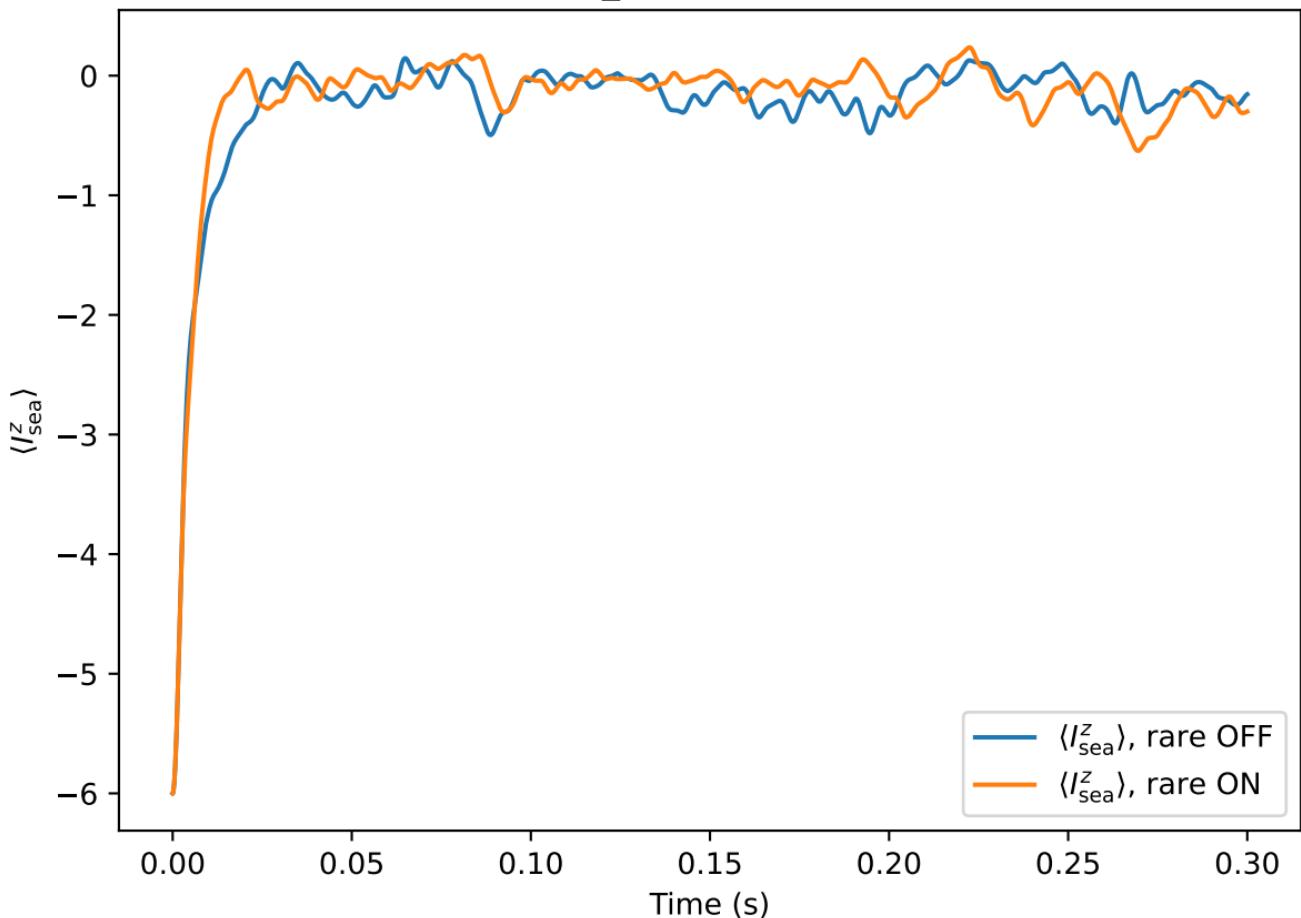
$\delta_A = +0.0$ Hz (pseudo T_1 envelope)

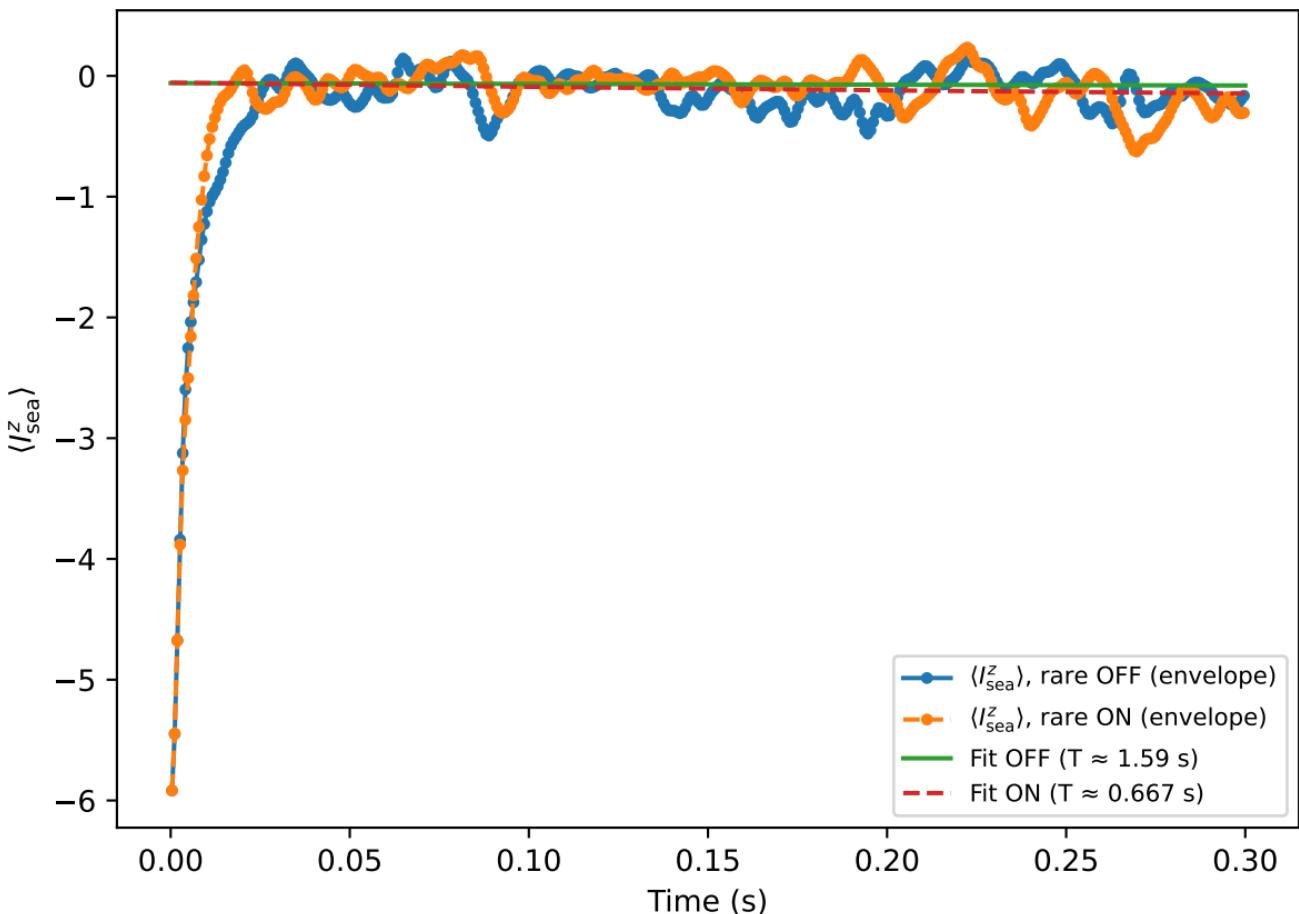


$\delta_A = +0.0 \text{ Hz}$ (rare drive OFF)

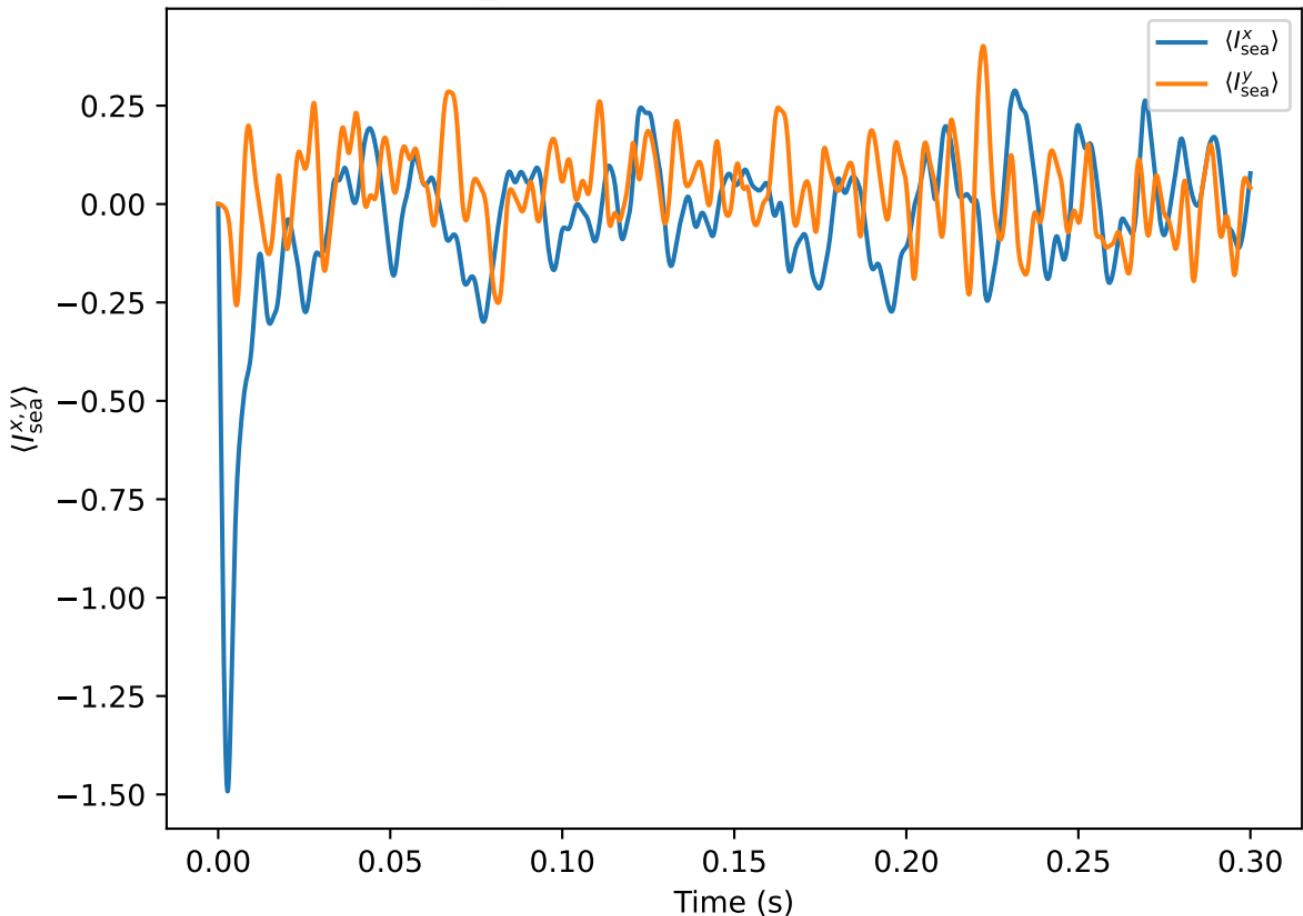


$\delta_A = +1.1 \text{ Hz}$

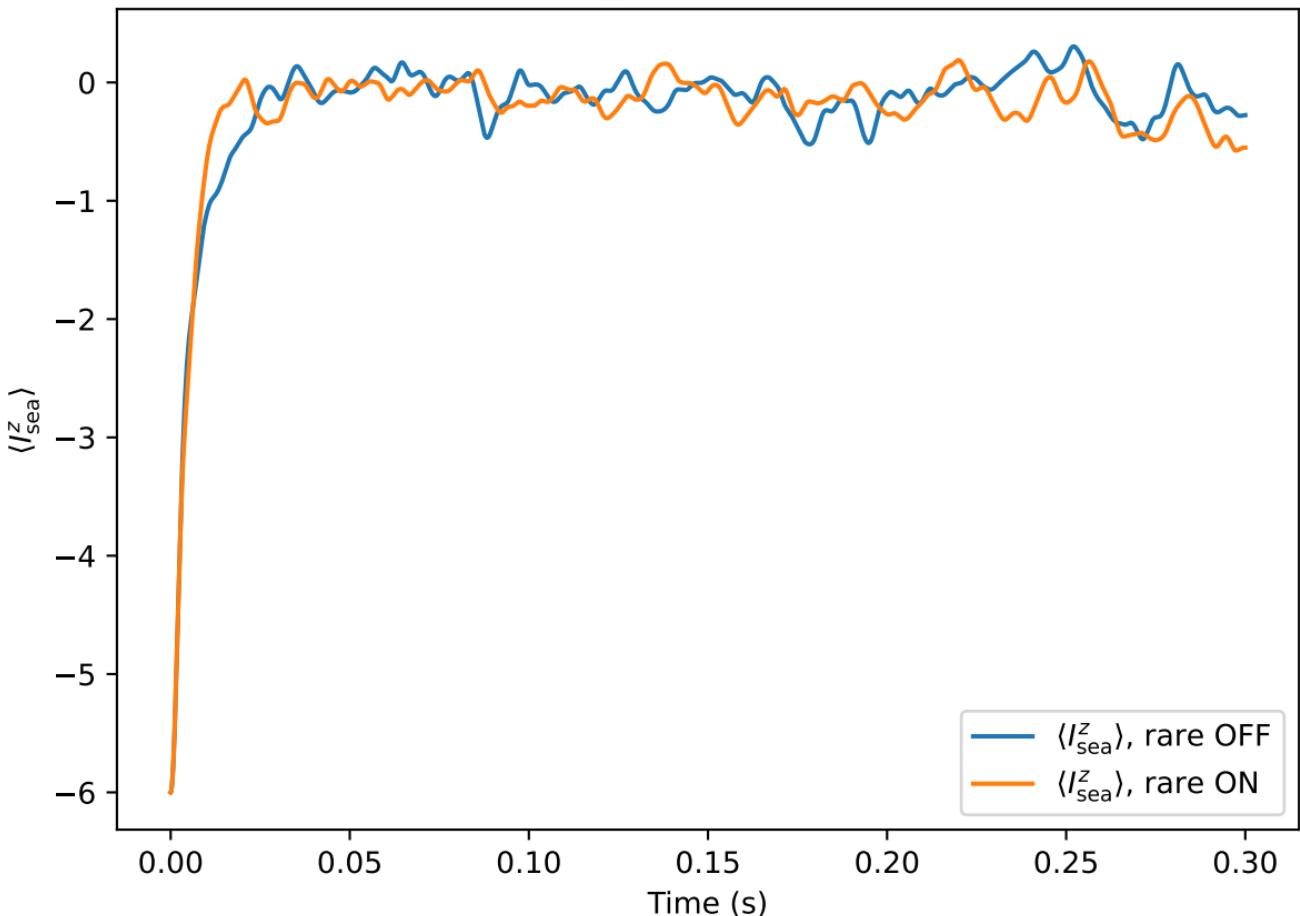


$\delta_A = +1.1 \text{ Hz}$ (pseudo T_1 envelope)

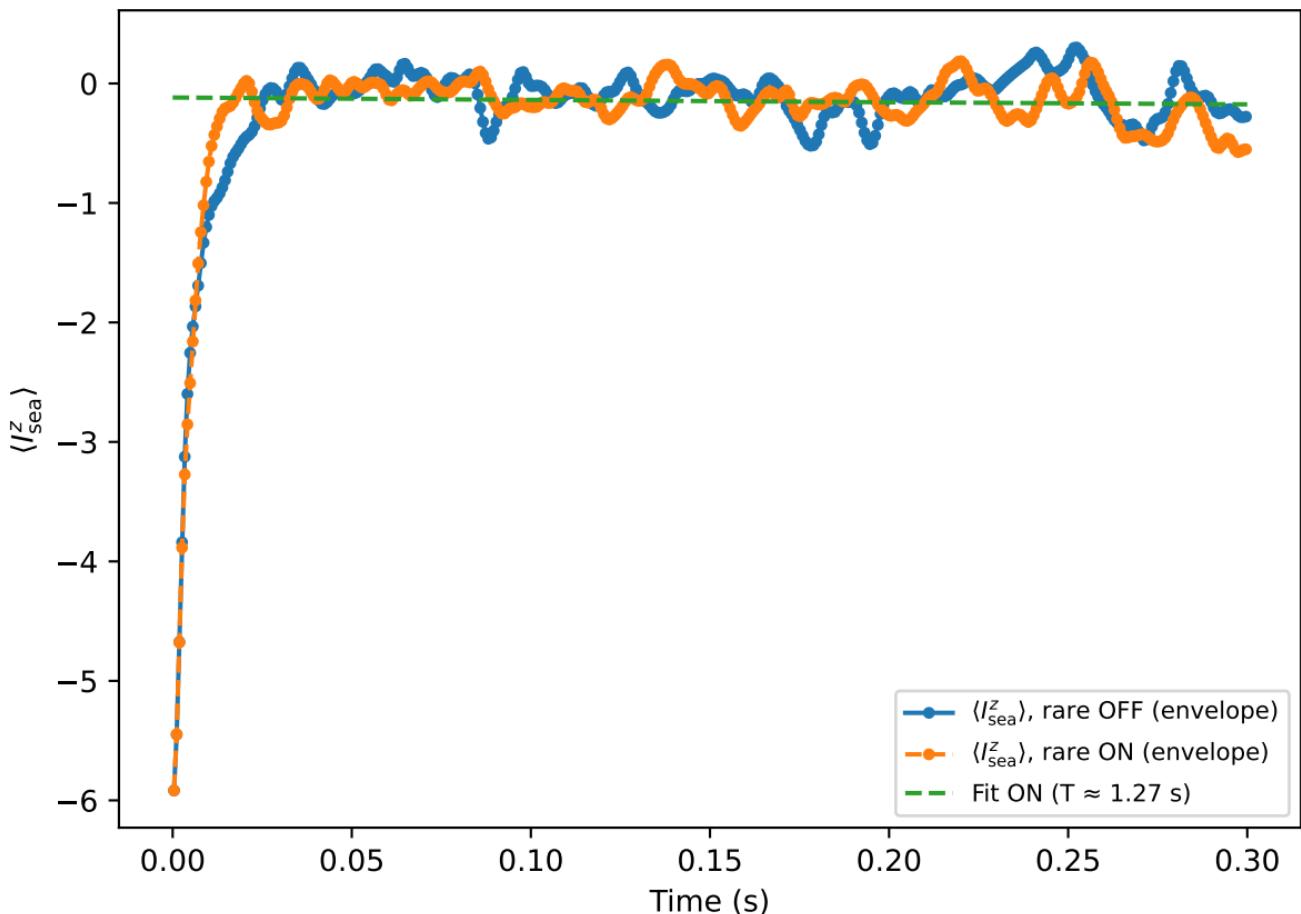
$\delta_A = +1.1 \text{ Hz}$ (rare drive OFF)



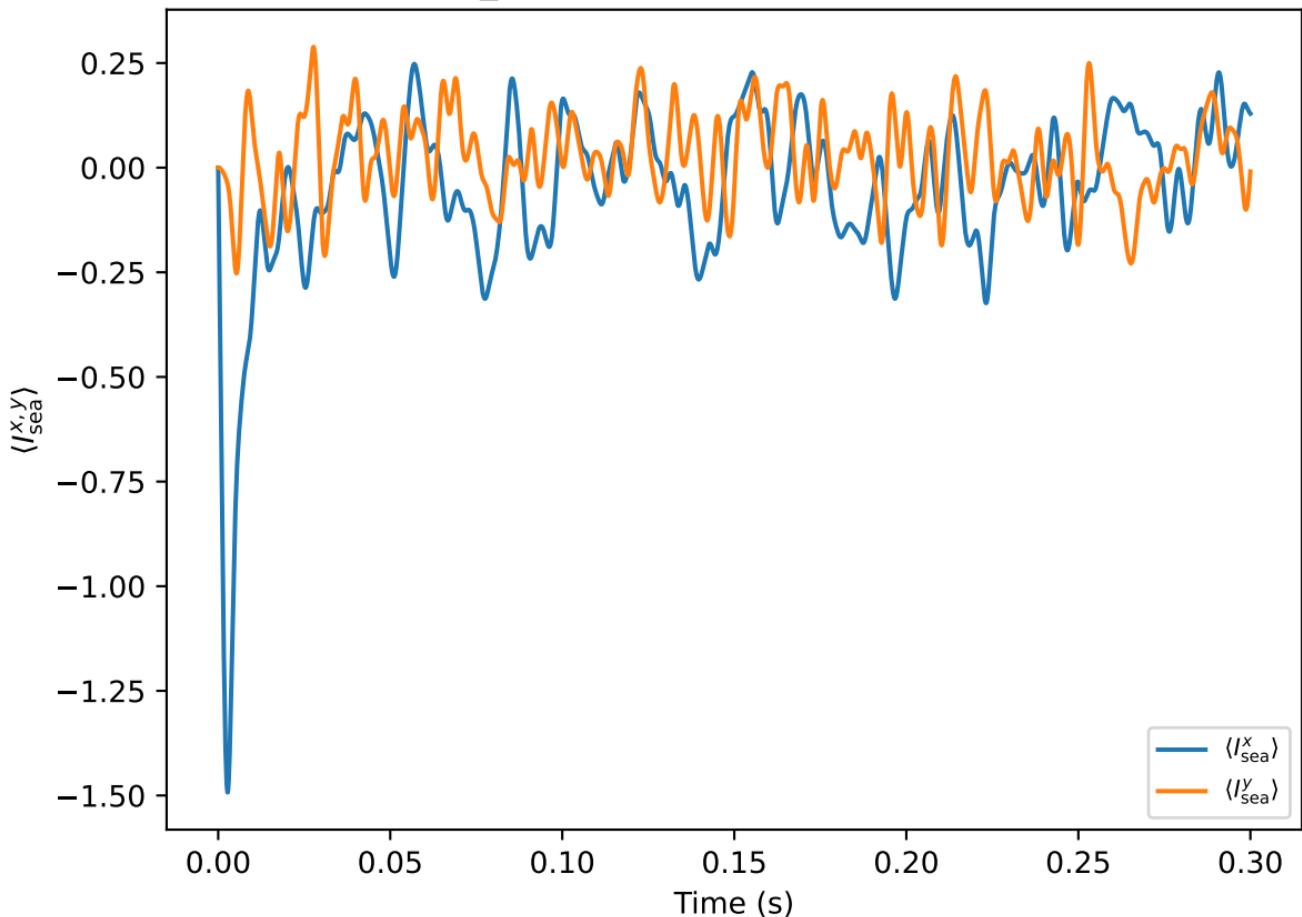
$\delta_A = +2.2 \text{ Hz}$



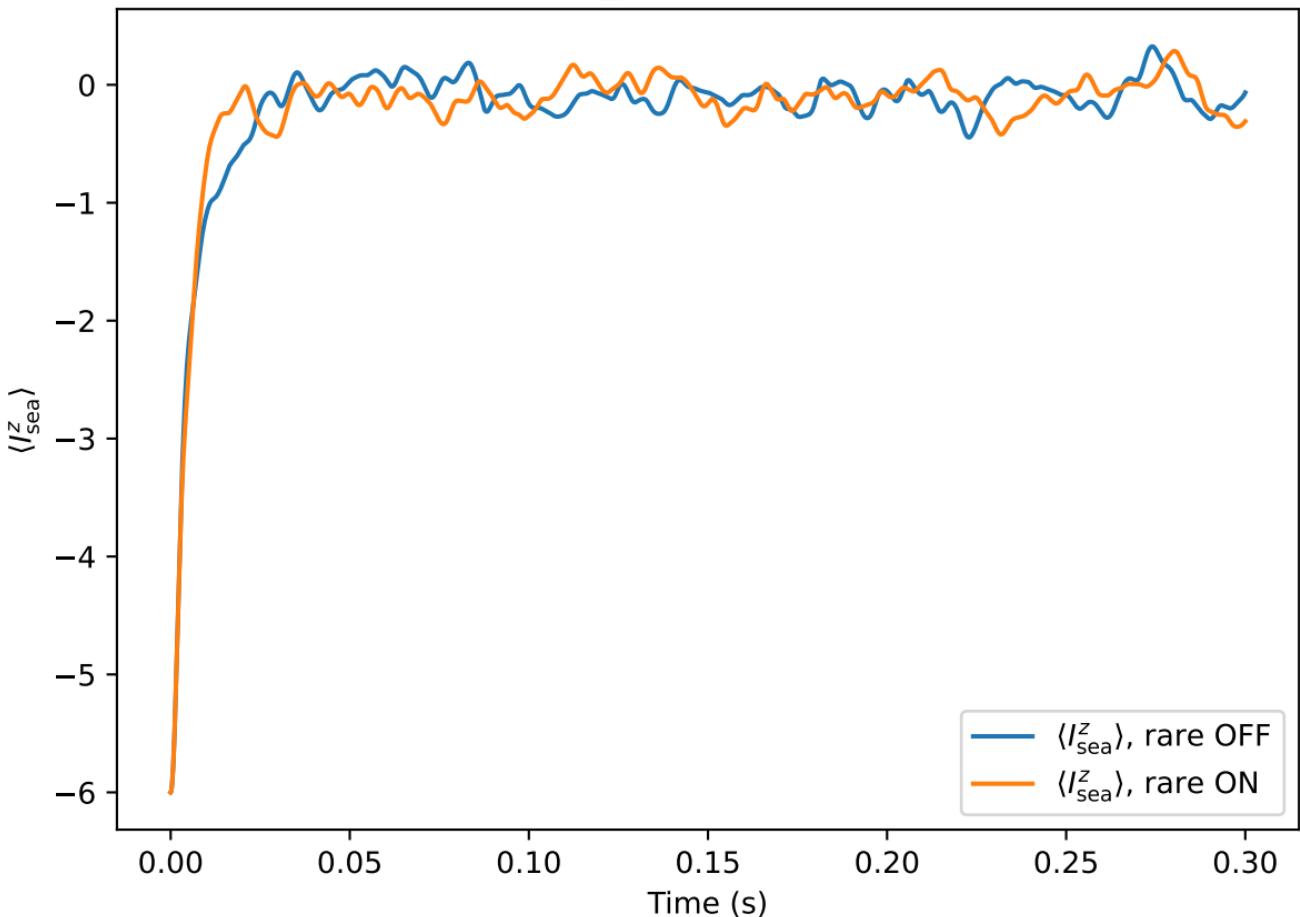
$\delta_A = +2.2$ Hz (pseudo T_1 envelope)



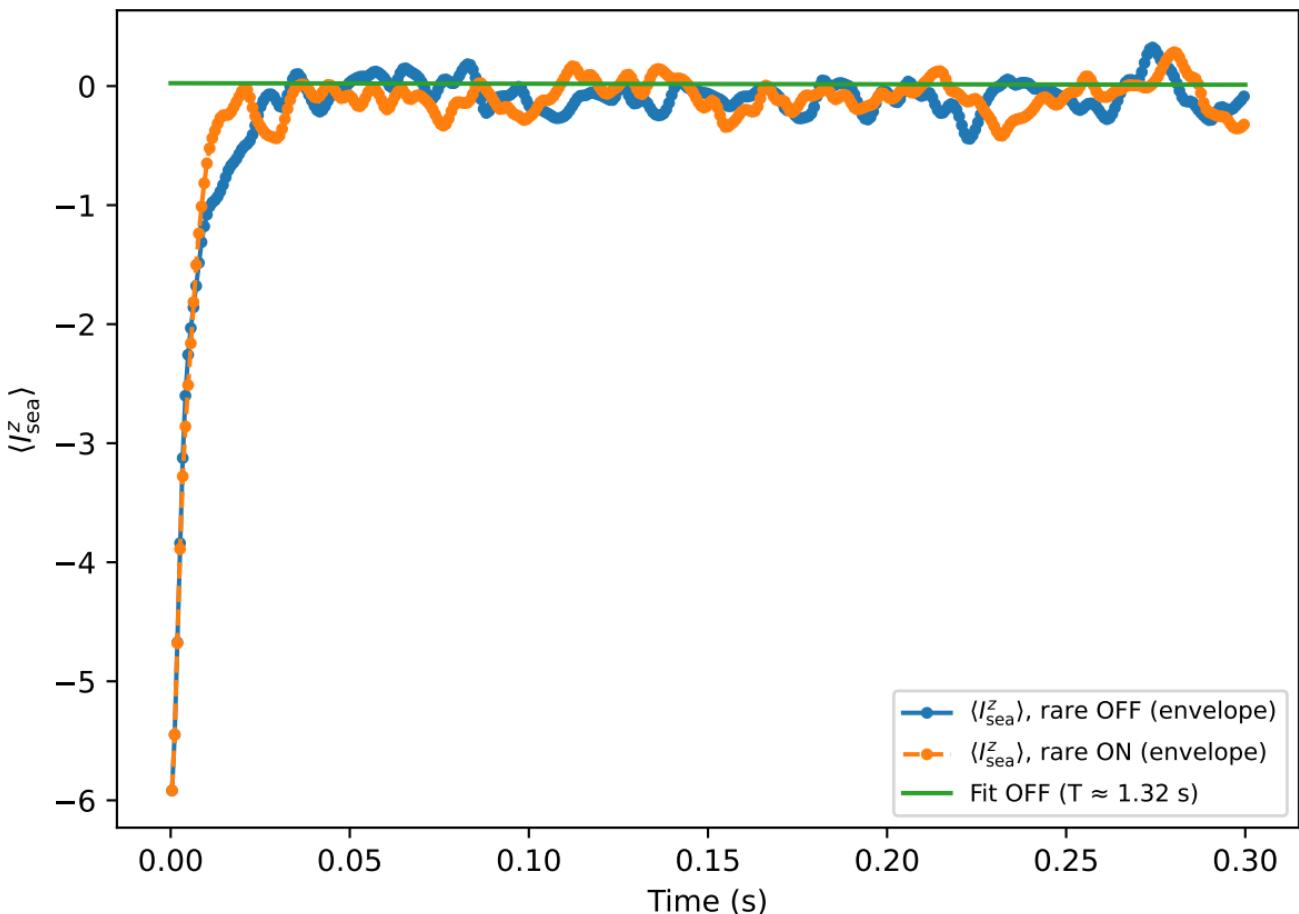
$\delta_A = +2.2 \text{ Hz}$ (rare drive OFF)



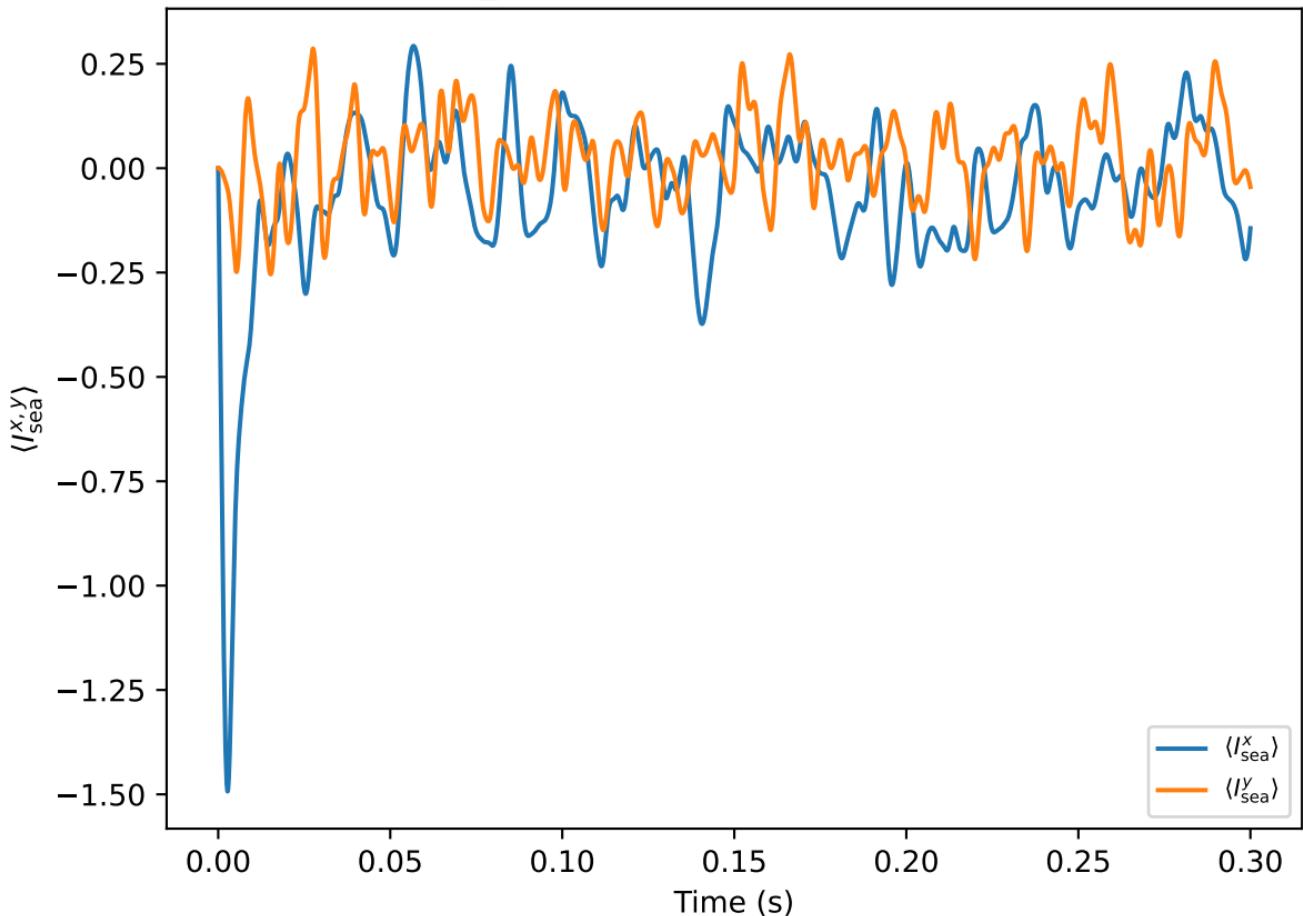
$\delta_A = +3.3$ Hz



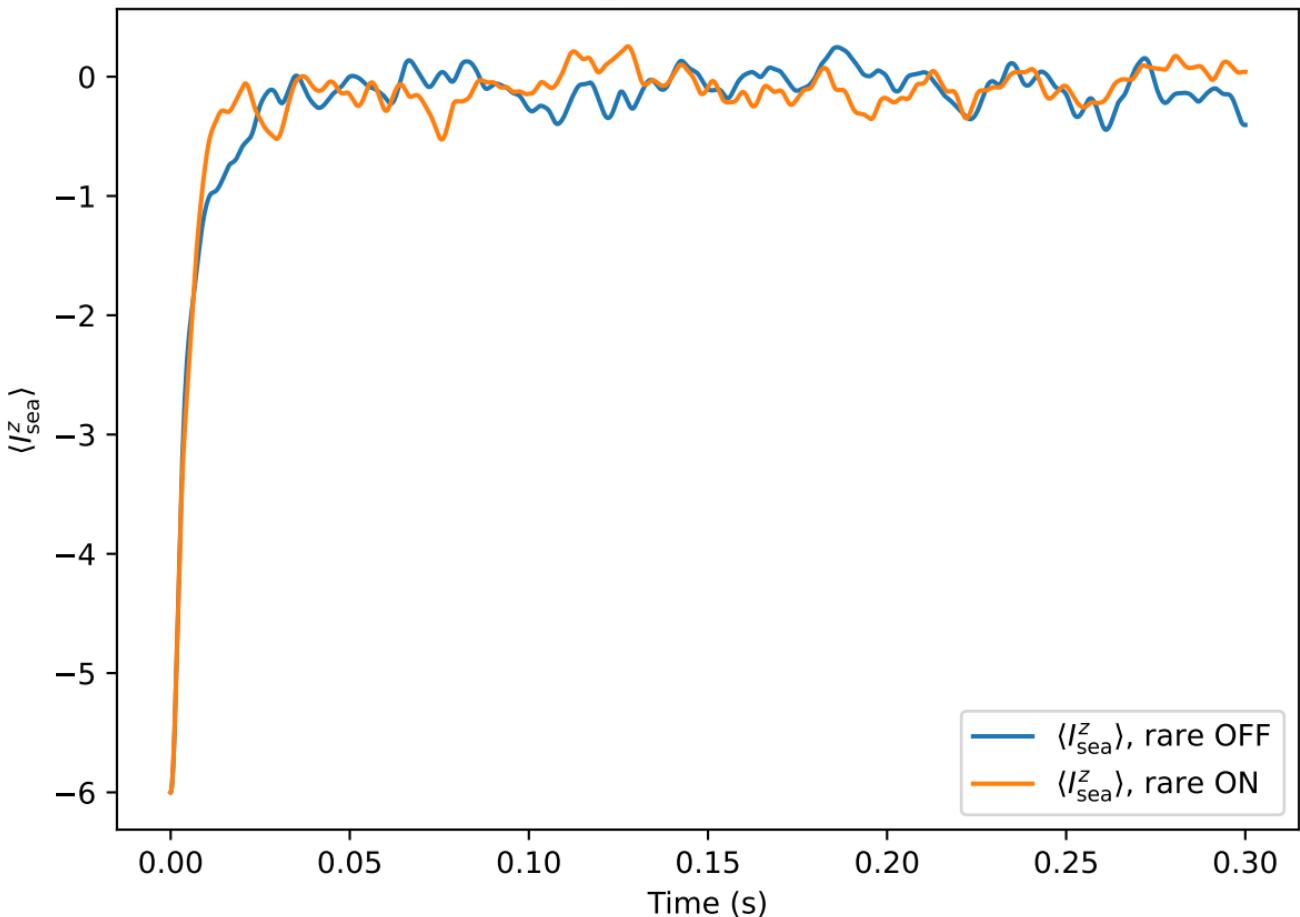
$\delta_A = +3.3$ Hz (pseudo T_1 envelope)



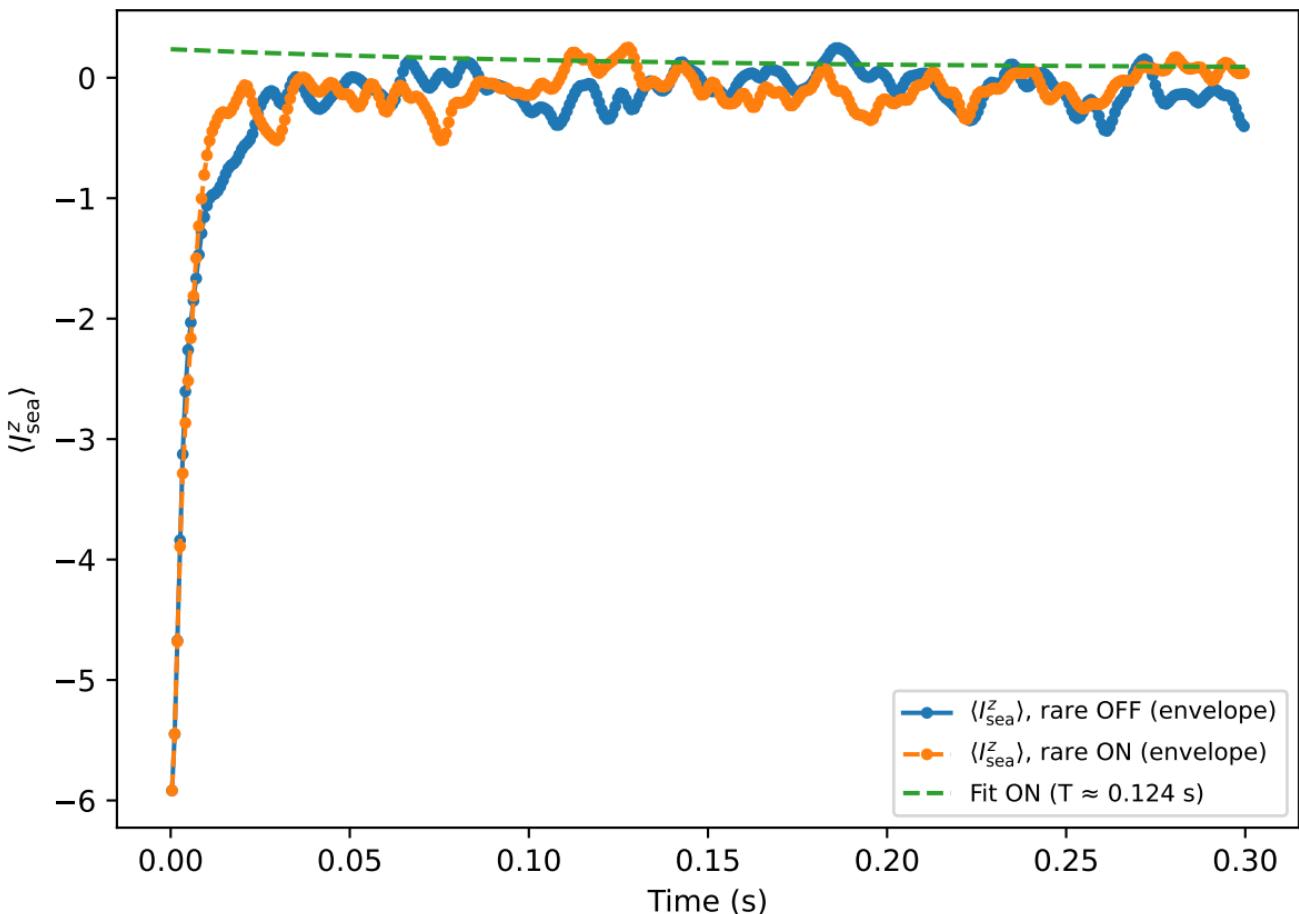
$\delta_A = +3.3 \text{ Hz}$ (rare drive OFF)



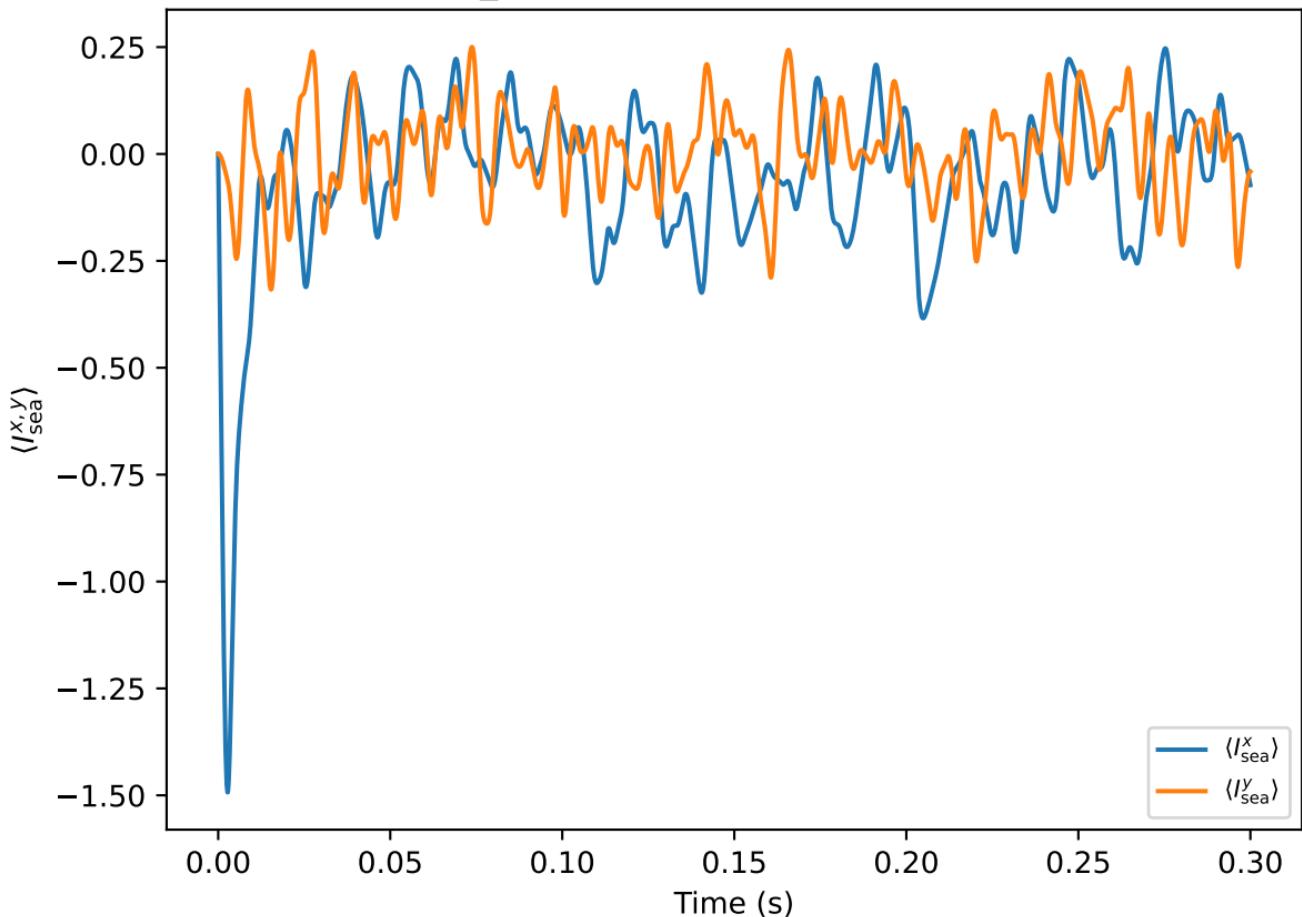
$\delta_A = +4.4 \text{ Hz}$



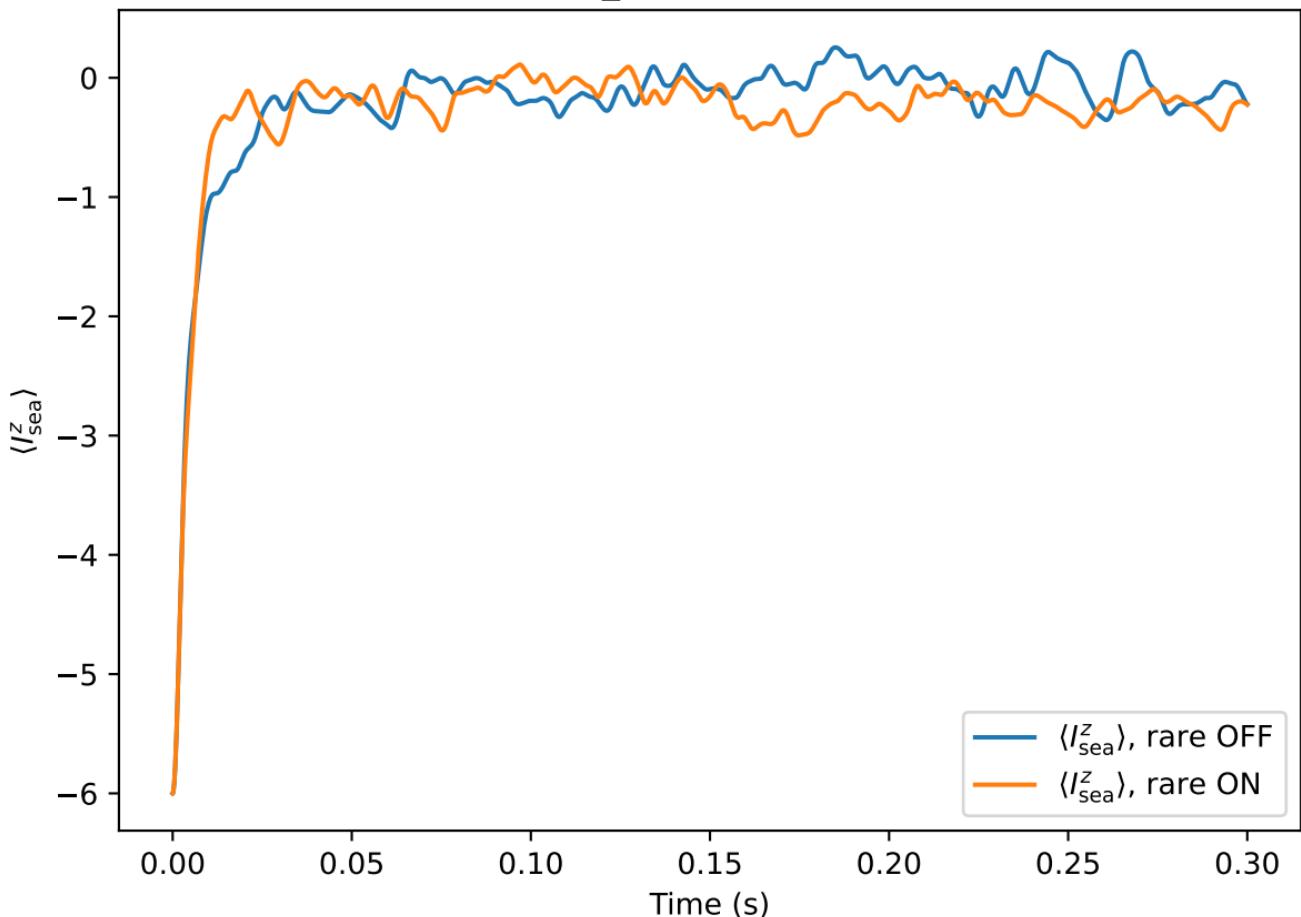
$\delta_A = +4.4$ Hz (pseudo T_1 envelope)

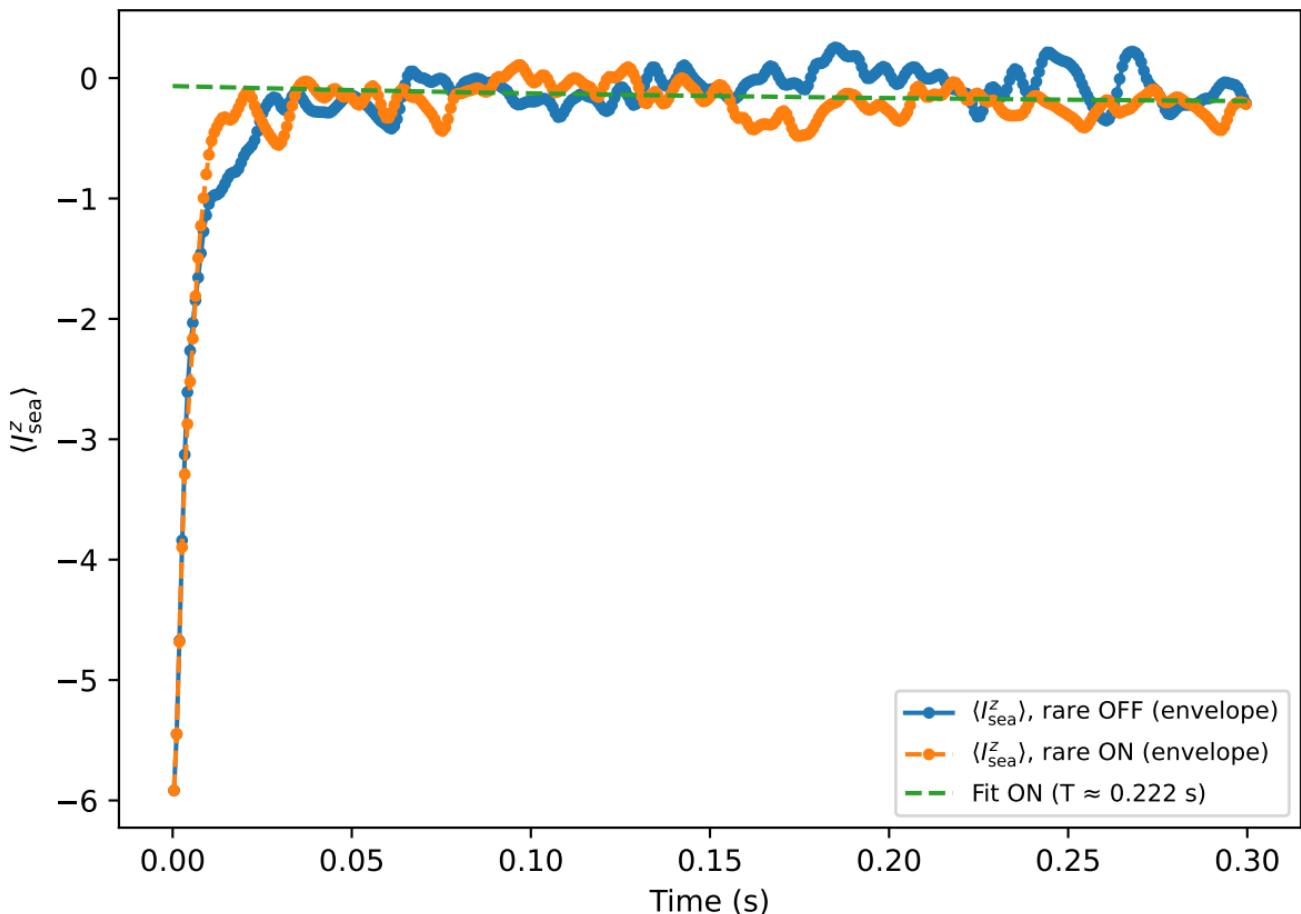


$\delta_A = +4.4 \text{ Hz}$ (rare drive OFF)

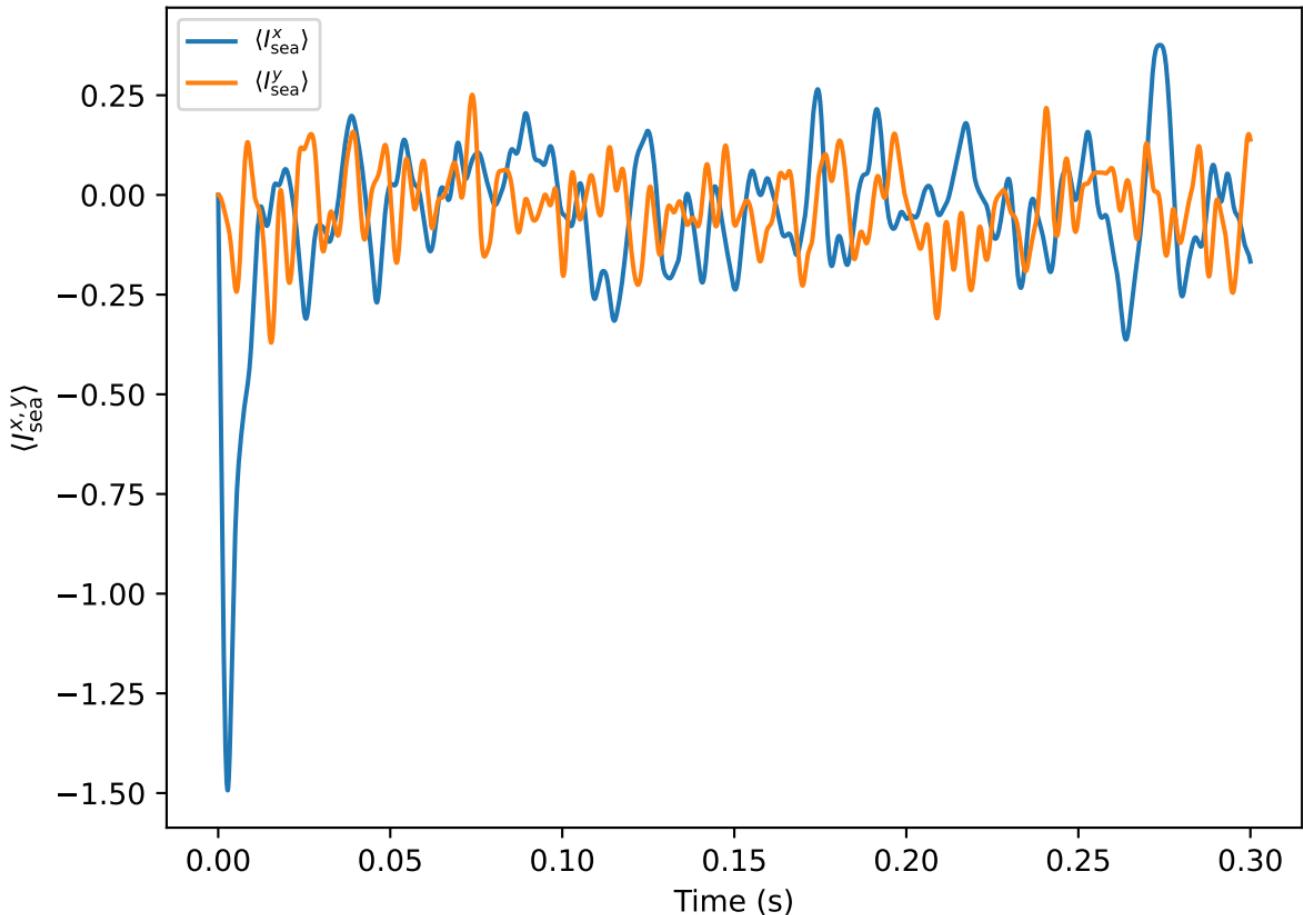


$\delta_A = +5.6$ Hz

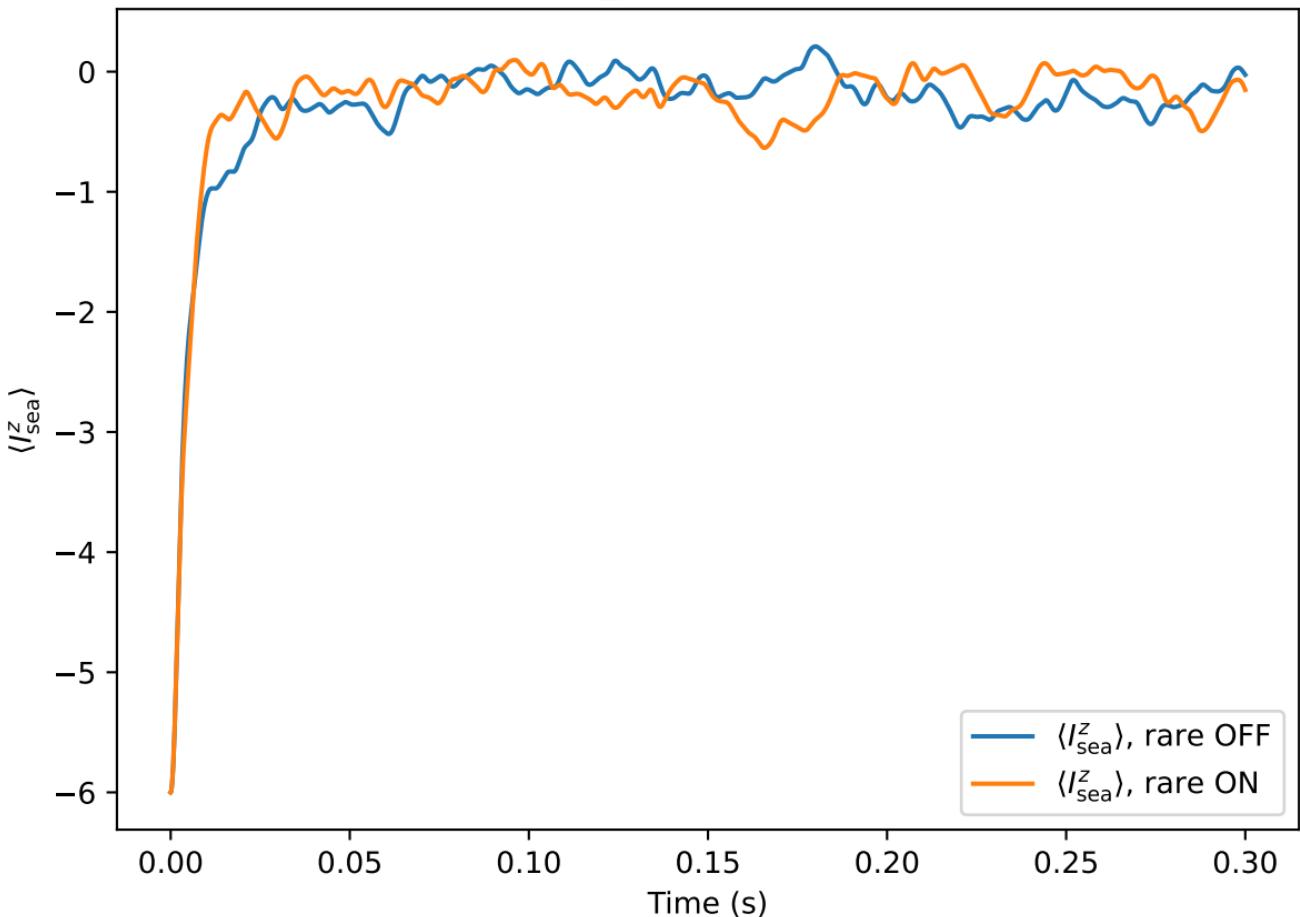


$\delta_A = +5.6 \text{ Hz}$ (pseudo T_1 envelope)

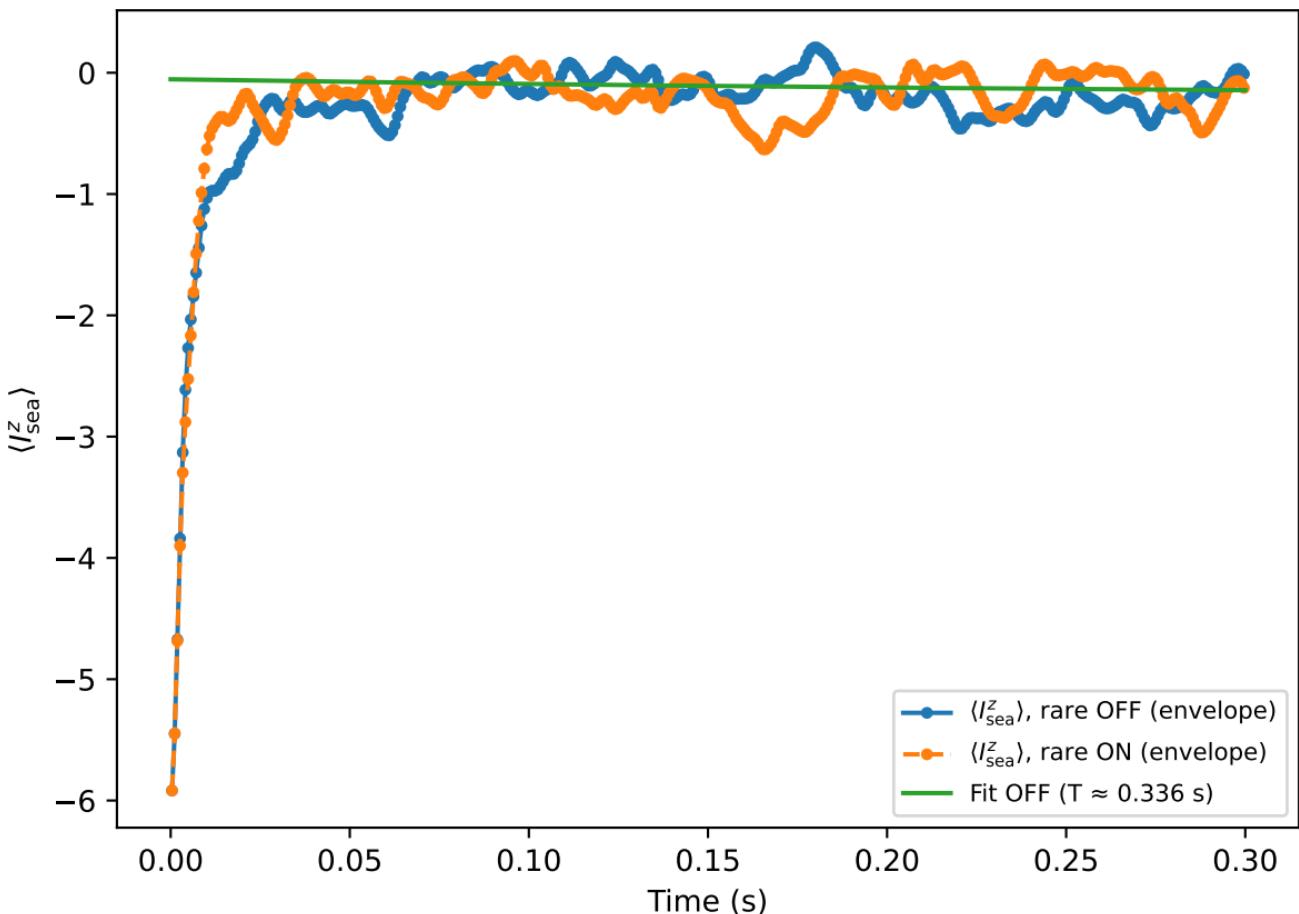
$\delta_A = +5.6 \text{ Hz}$ (rare drive OFF)



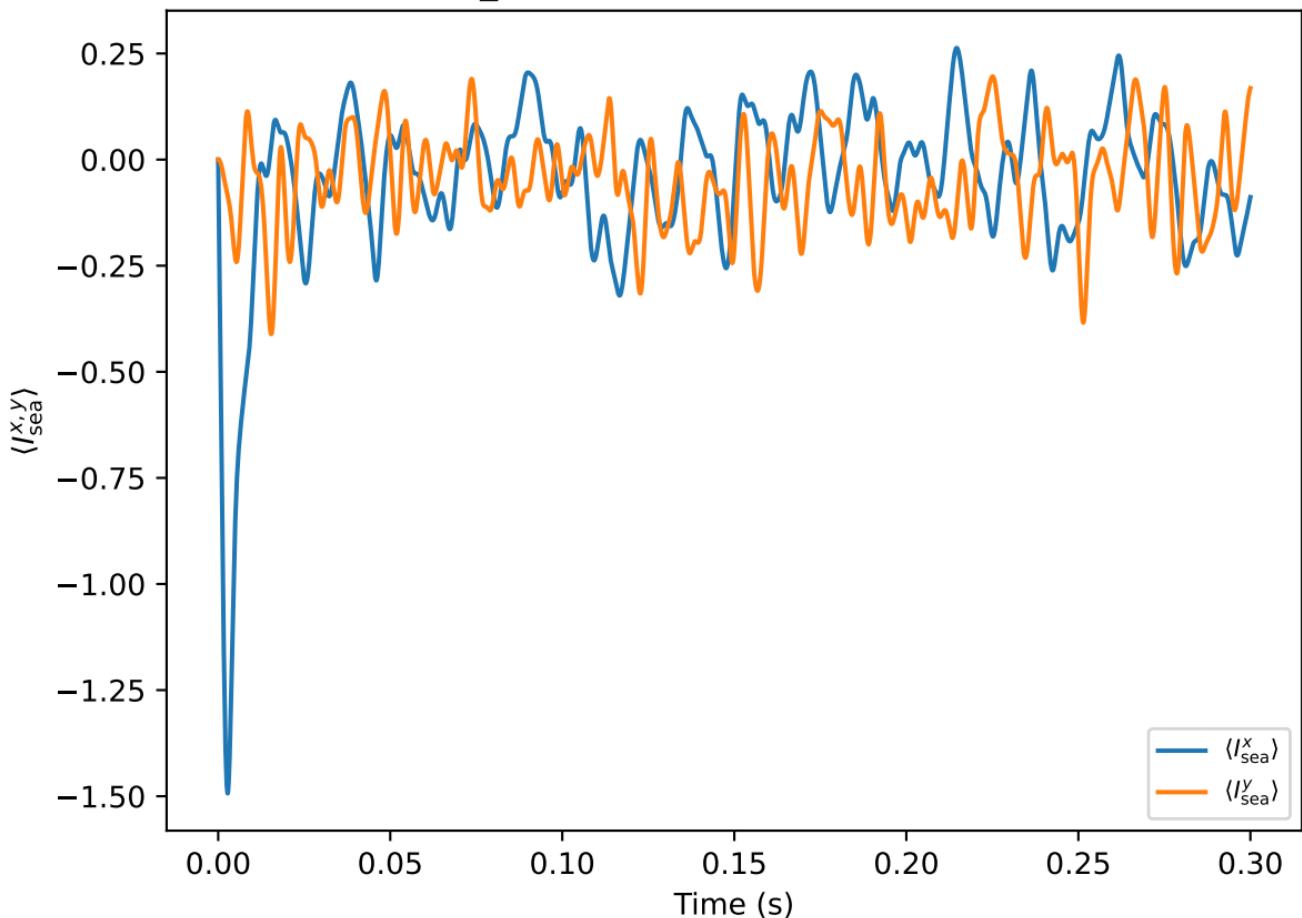
$\delta_A = +6.7 \text{ Hz}$



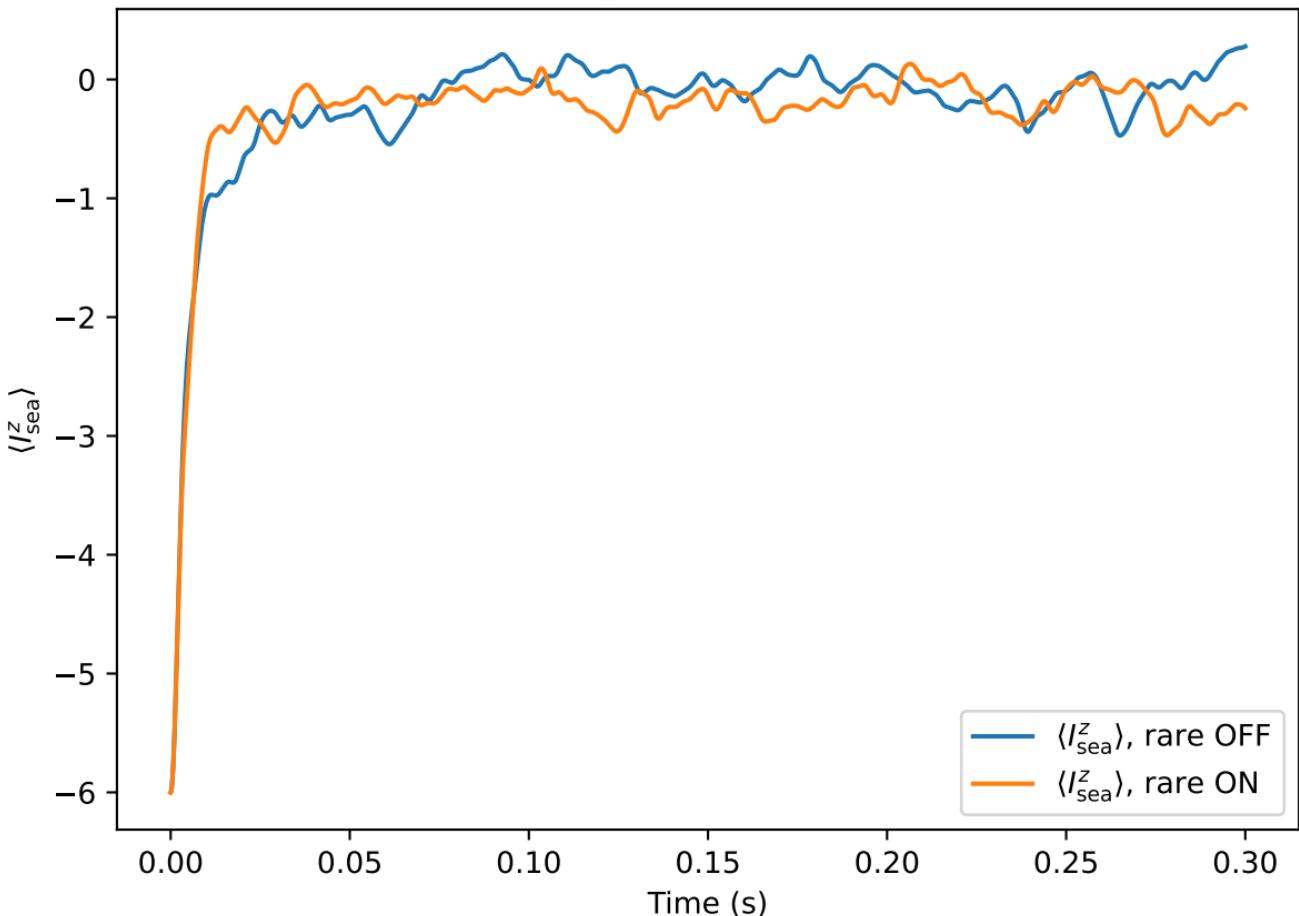
$\delta_A = +6.7$ Hz (pseudo T_1 envelope)



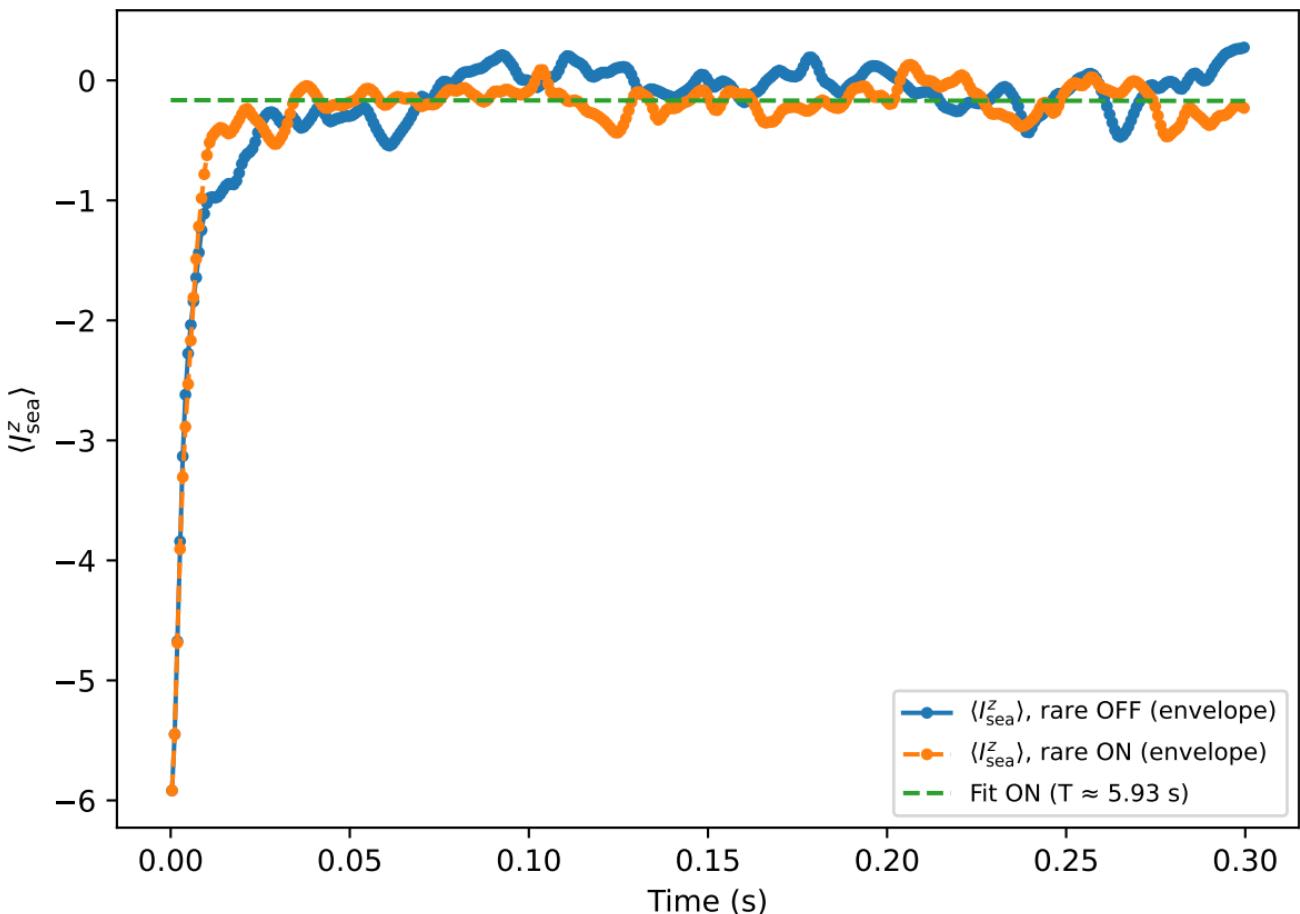
$\delta_A = +6.7 \text{ Hz}$ (rare drive OFF)



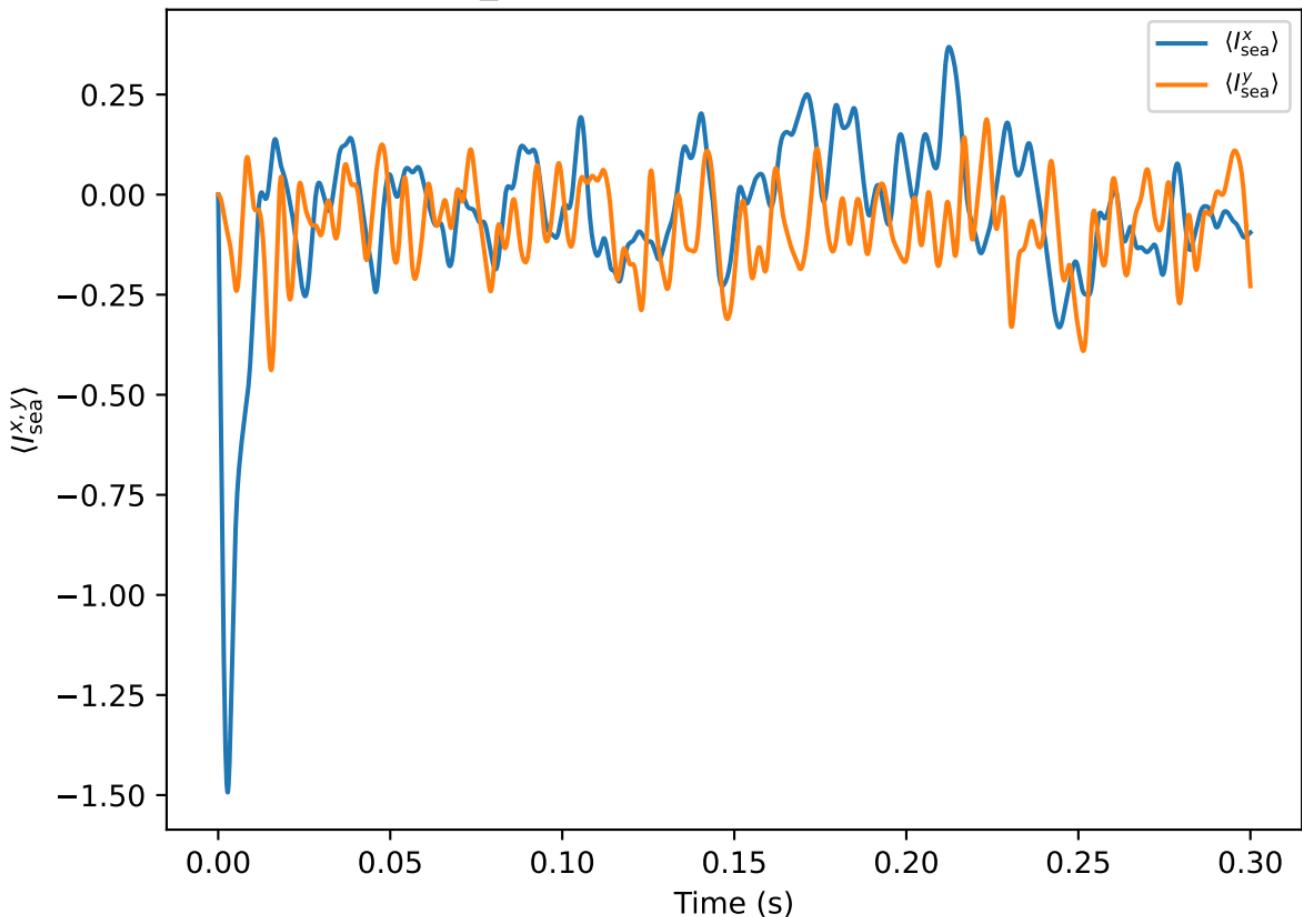
$\delta_A = +7.8 \text{ Hz}$



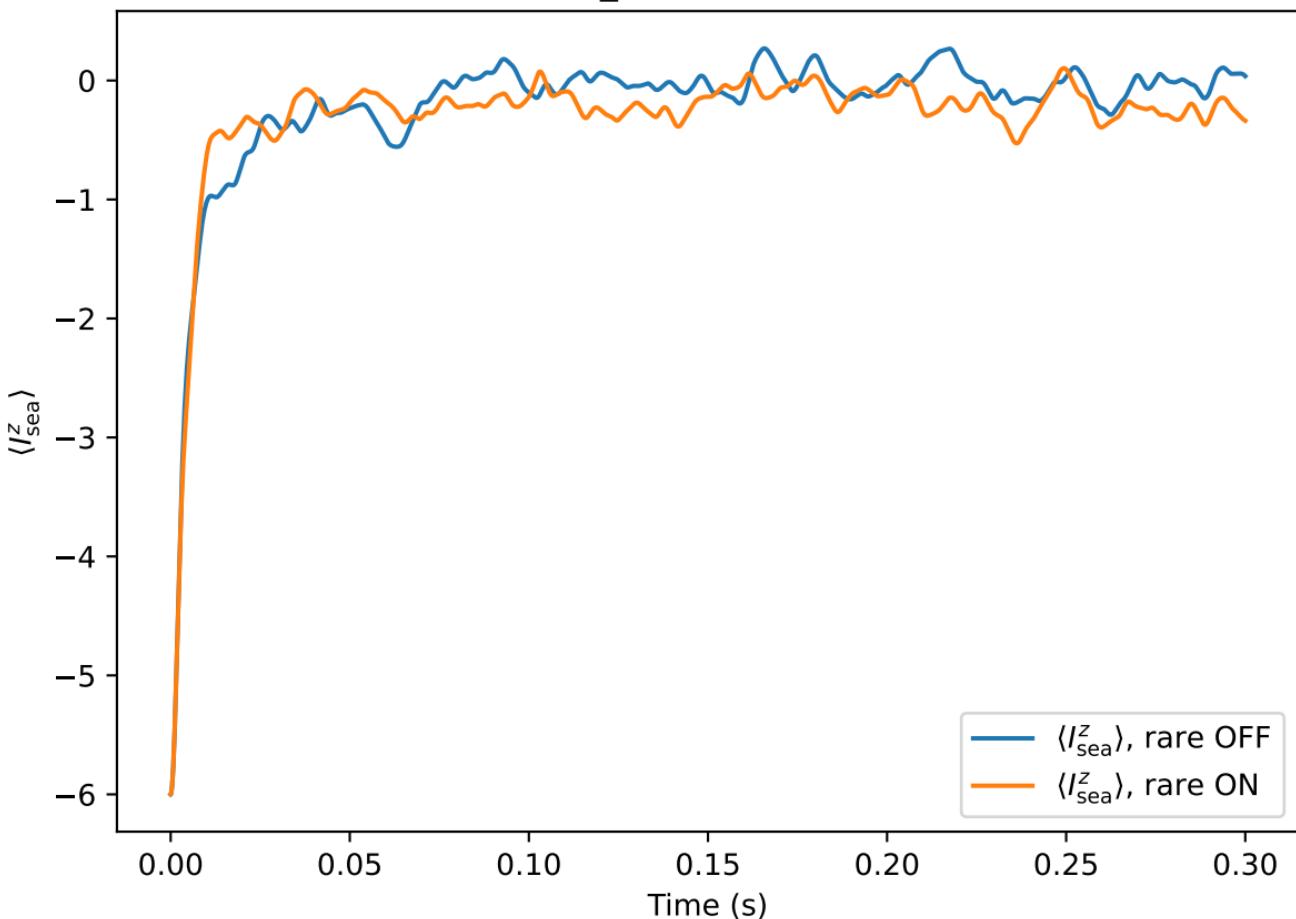
$\delta_A = +7.8$ Hz (pseudo T_1 envelope)



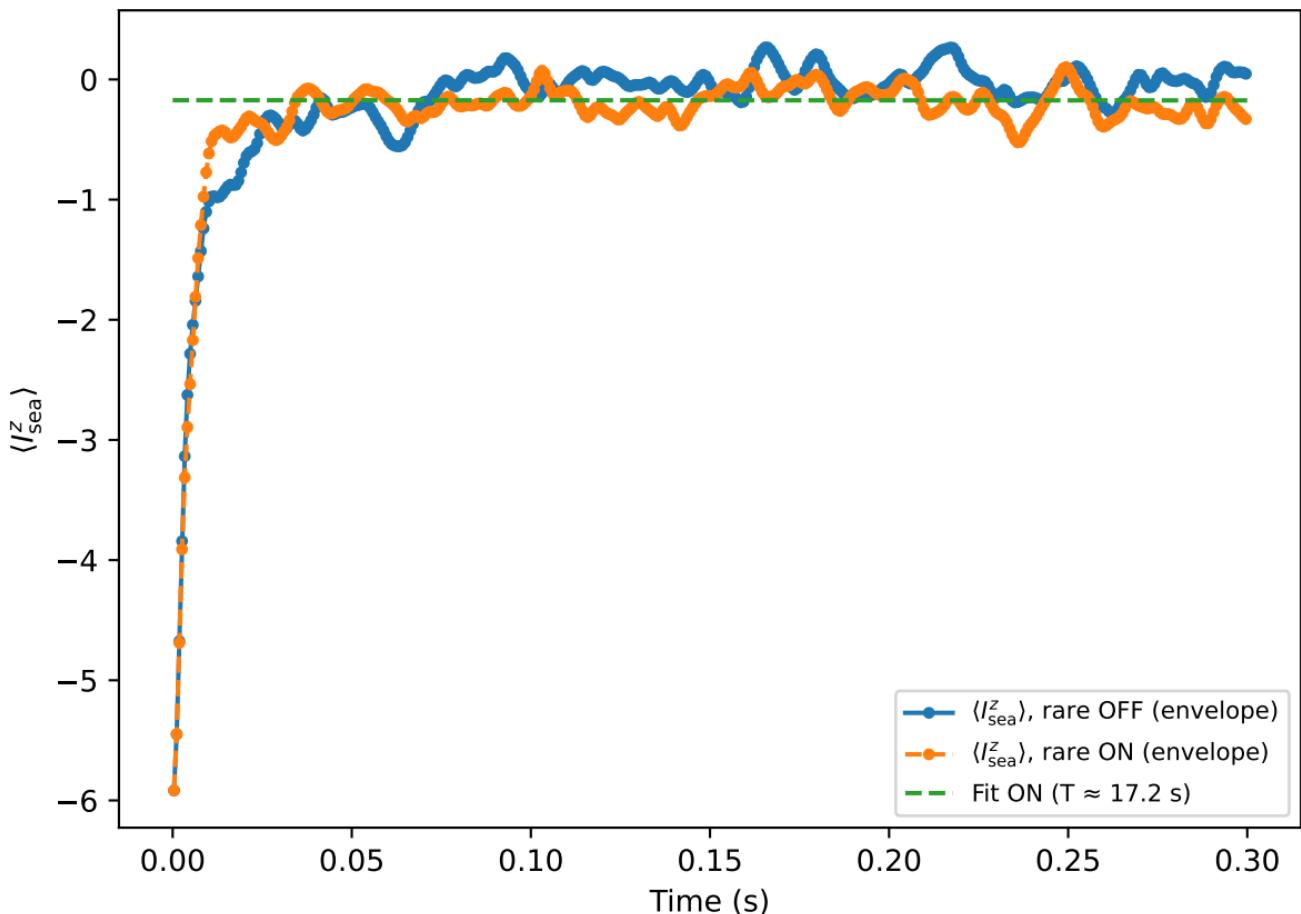
$\delta_A = +7.8 \text{ Hz}$ (rare drive OFF)



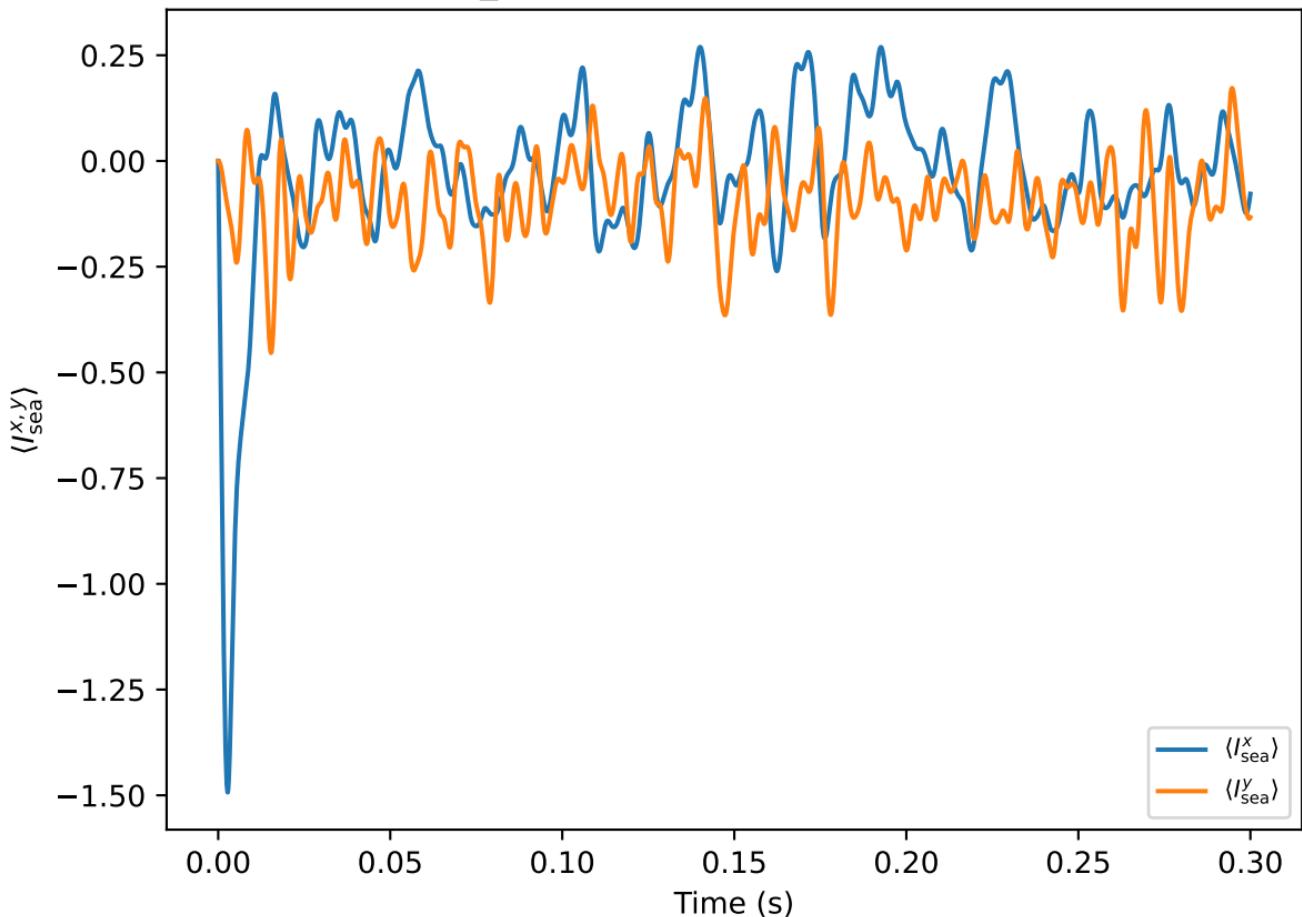
$\delta_A = +8.9$ Hz



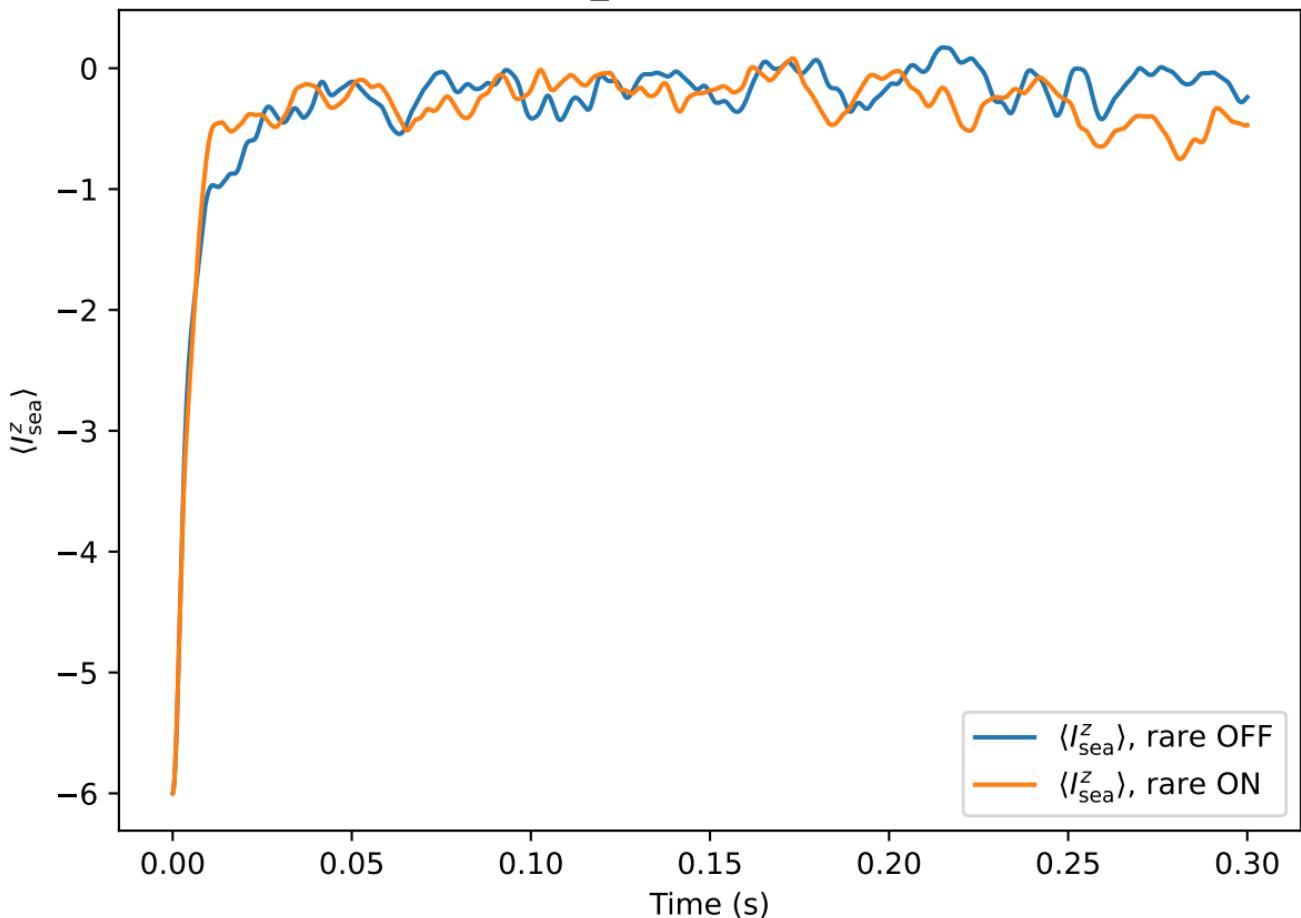
$\delta_A = +8.9$ Hz (pseudo T_1 envelope)



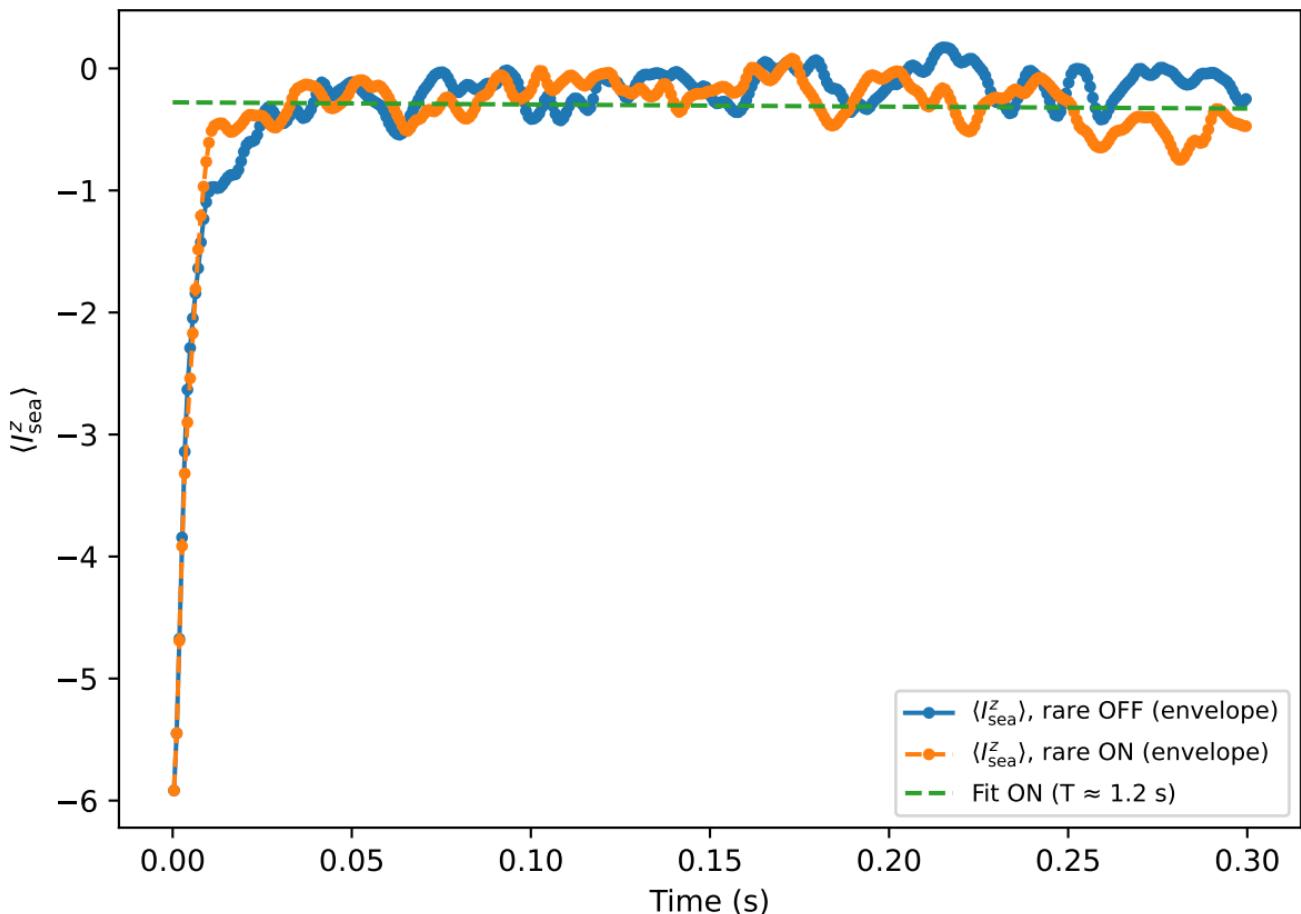
$\delta_A = +8.9$ Hz (rare drive OFF)



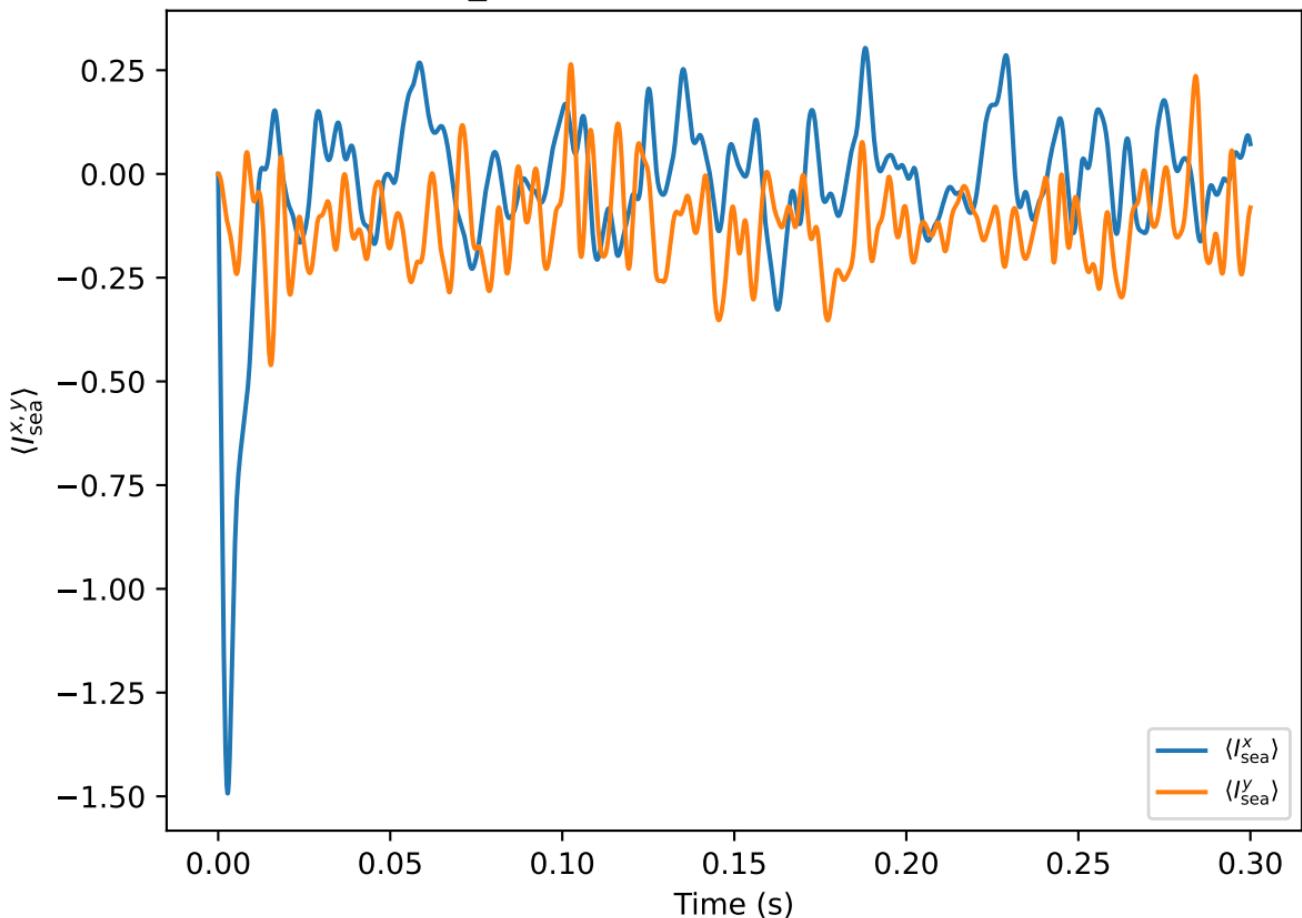
$\delta_A = +10.0$ Hz



$\delta_A = +10.0$ Hz (pseudo T_1 envelope)



$\delta_A = +10.0$ Hz (rare drive OFF)



T-like decay fits from $\langle I^z_{\text{sea}} \rangle$ traces

delta_Hz	T_Iz_sea_off	T_Iz_sea_on
+0.0	NA	NA
+1.1	1.59	0.667
+2.2	NA	1.27
+3.3	1.32	NA
+4.4	NA	0.124
+5.6	NA	0.222
+6.7	0.336	NA
+7.8	NA	5.93
+8.9	NA	17.2
+10.0	NA	1.2