

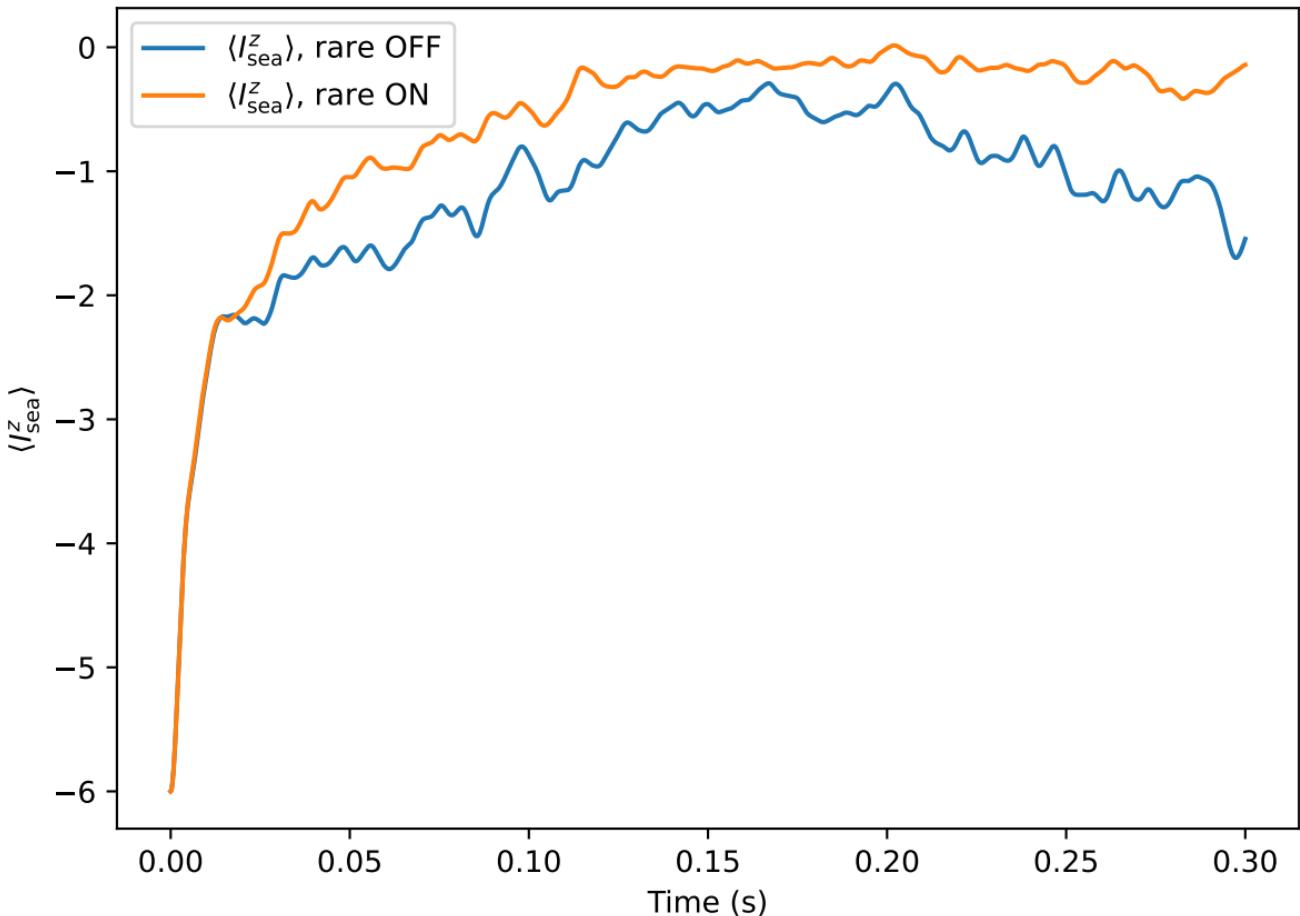
Sea detuning sweep report (Ga sea / Al rare)

Global parameters (constant across sweep):

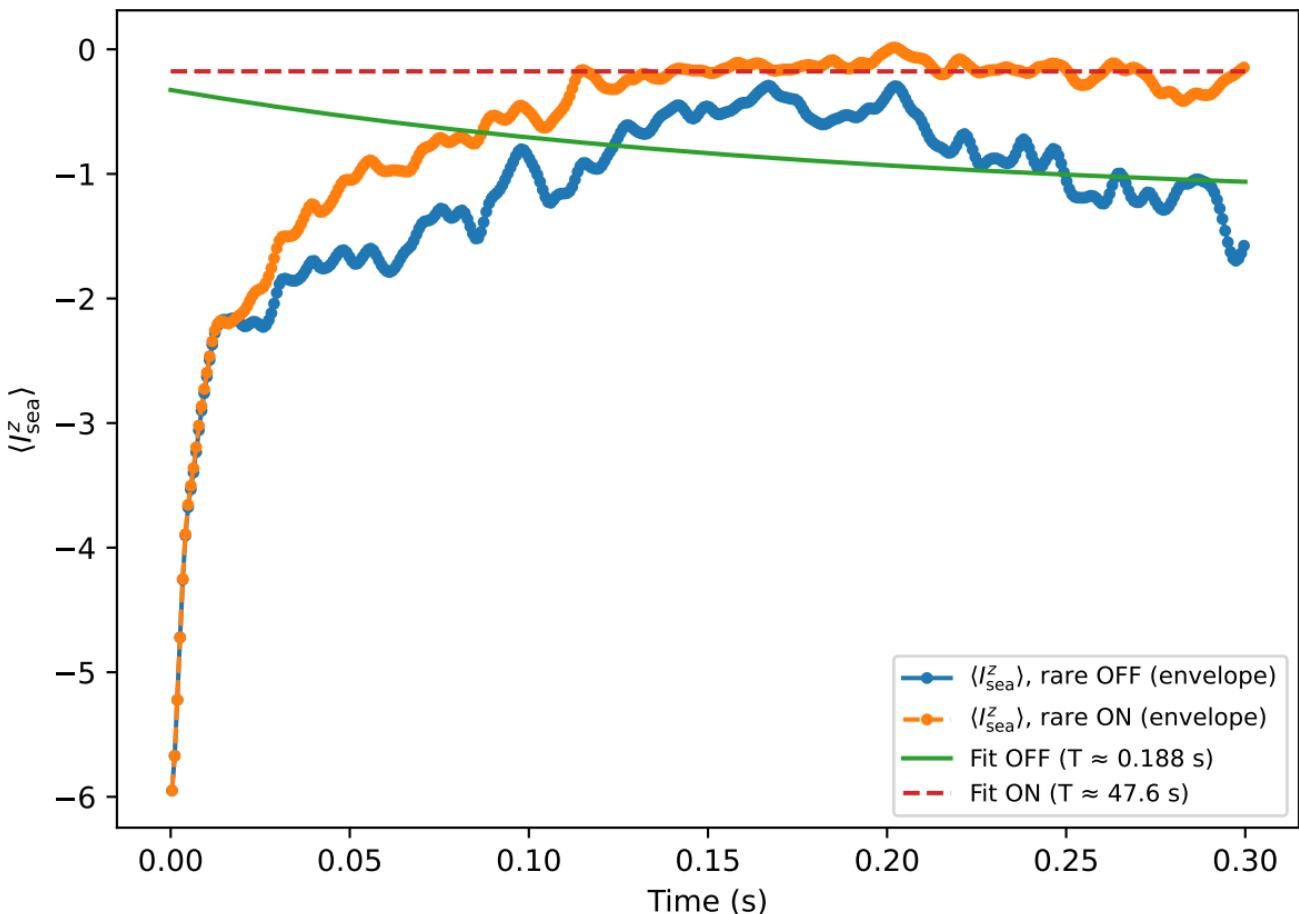
f_Az (sea Larmor)	= 34.062 MHz
f_Rz (rare Larmor)	= 33.308 MHz
f1A (sea Rabi)	= 0.020 kHz
f1R (rare Rabi)	= 0.010 kHz
gamma_sea	= 7.134e+07 rad·s ⁻¹ ·T ⁻¹
gamma_rare	= 6.976e+07 rad·s ⁻¹ ·T ⁻¹
B0_common	= 3.000 T
B1_sea	= 1.761e-06 T
B1_rare	= 9.007e-07 T
dipolar_scale_SI	= 1.055e-41
shell_scale	= 0.300 nm
t_final	= 3.000e-01 s
steps	= 20000
n_sea	= 12
phi_sea	= 1.571 rad
phi_rare	= 1.571 rad

Sea detunings ($\delta_A = f_Az - f_rf, A$) in Hz:

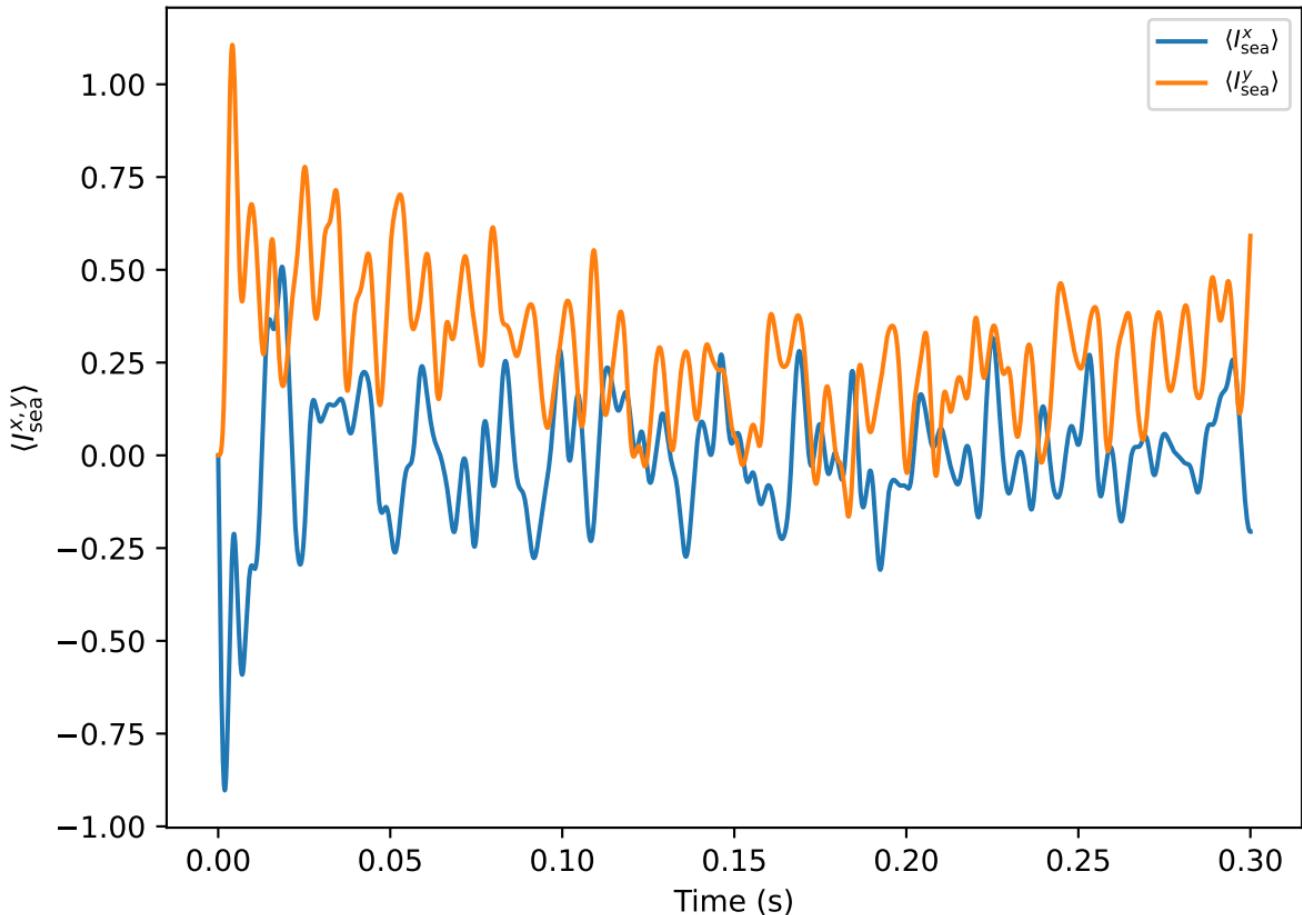
+0.0, +12500.0, +25000.0, +37500.0, +50000.0, +62500.0, +75000.0, +87500.0, +100000.0

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

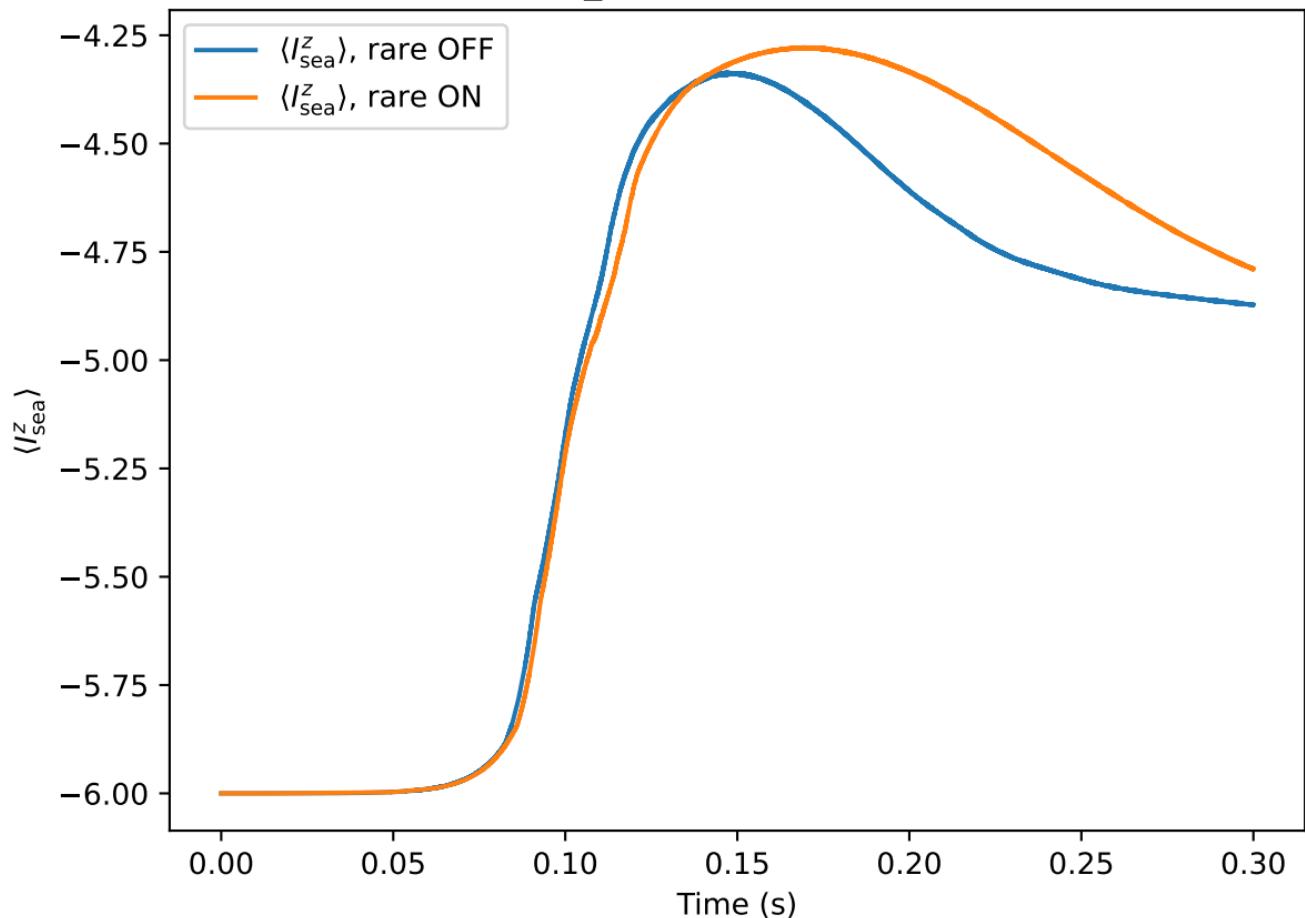
$\delta_A = +0.0$ Hz (pseudo T_1 envelope)



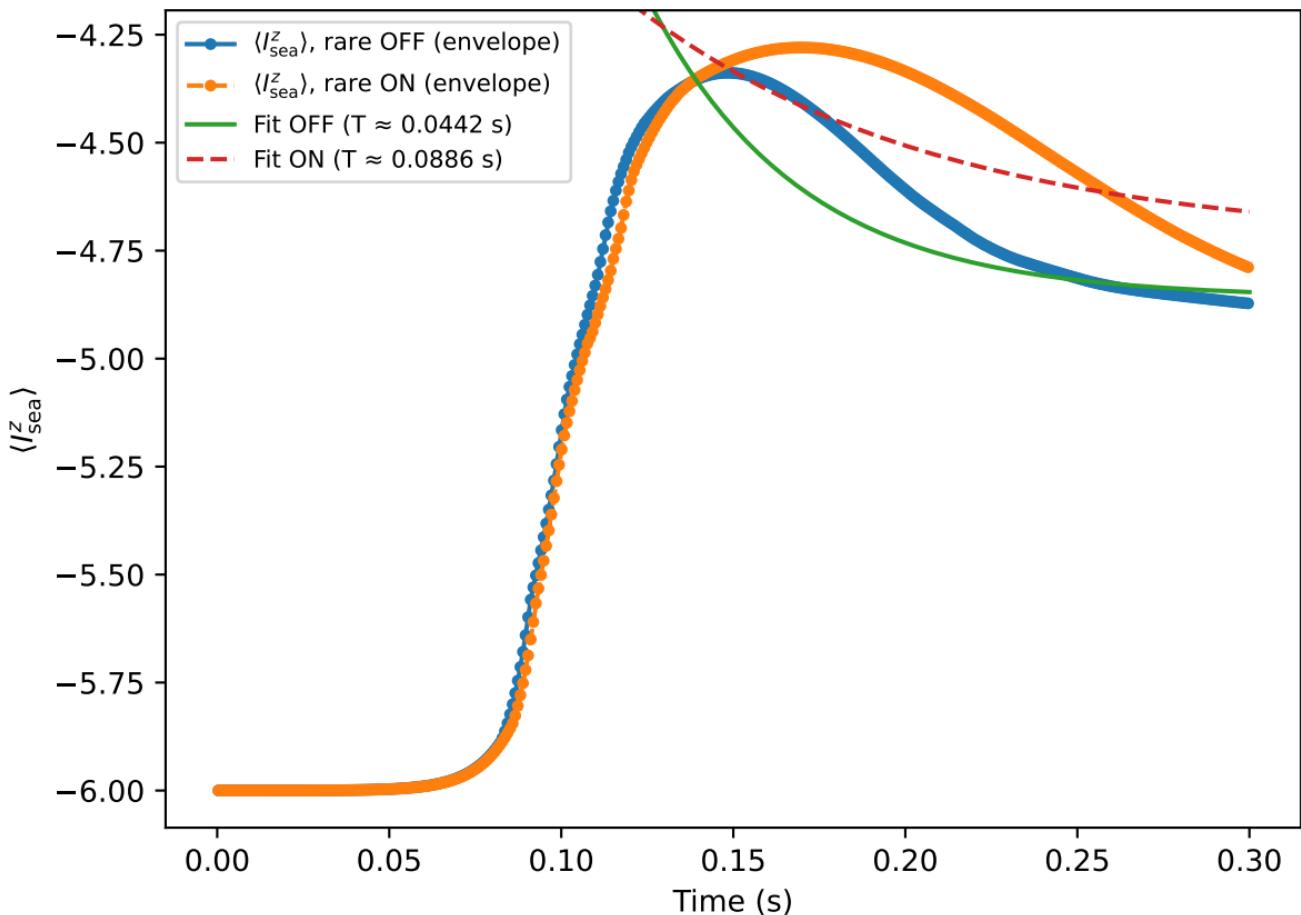
$\delta_A = +0.0 \text{ Hz}$ (rare drive OFF)



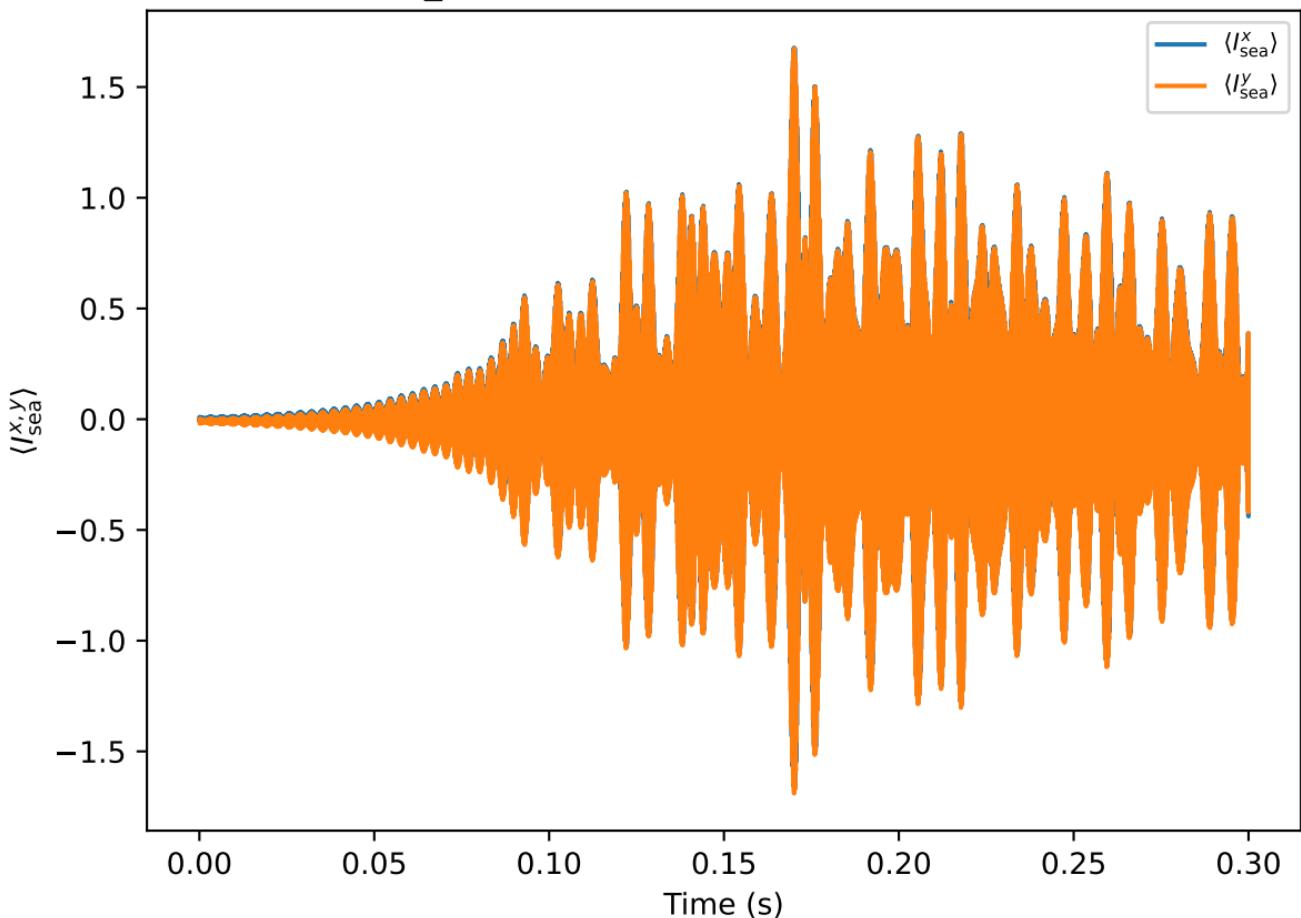
$\delta_A = +12500.0$ Hz

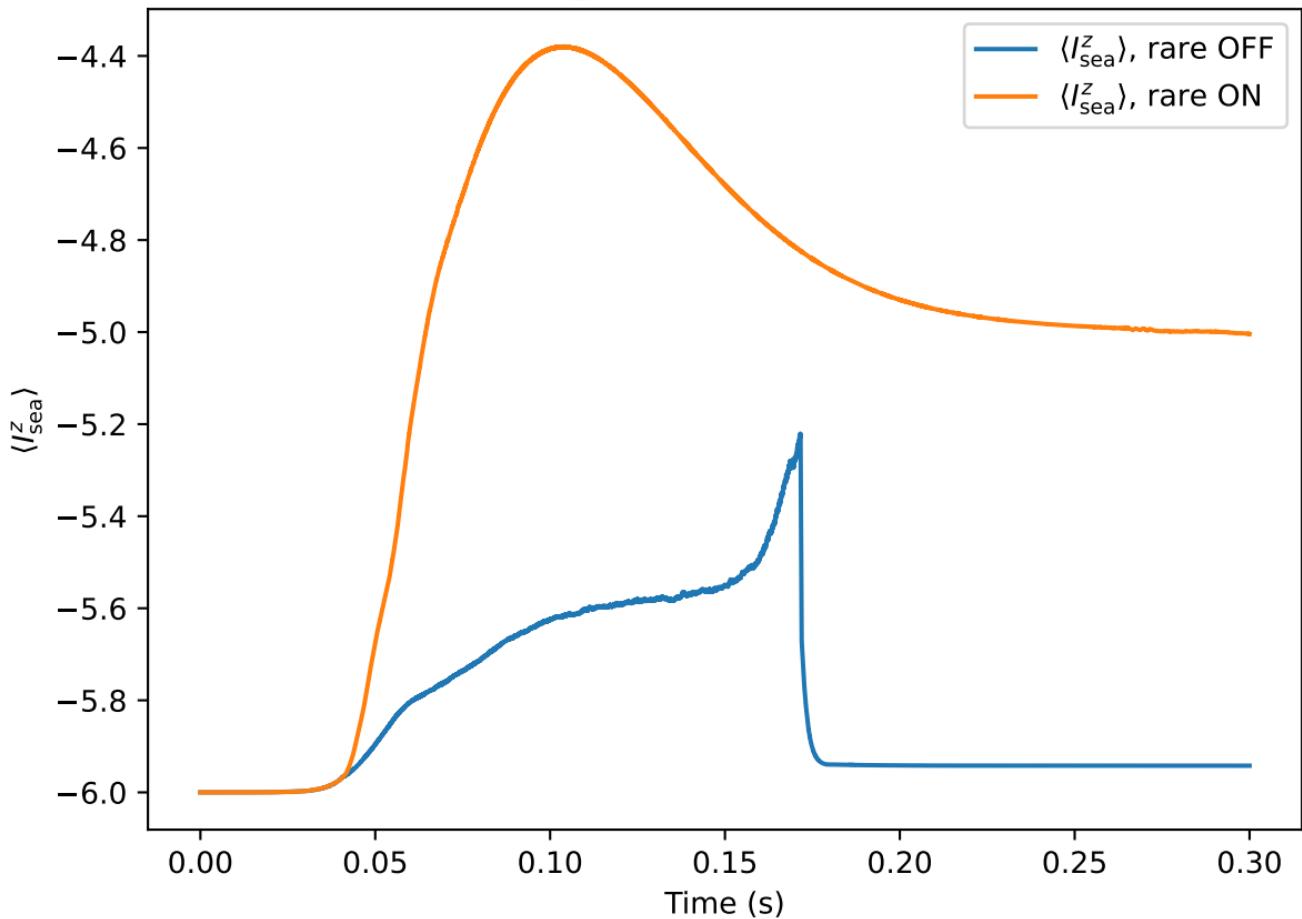


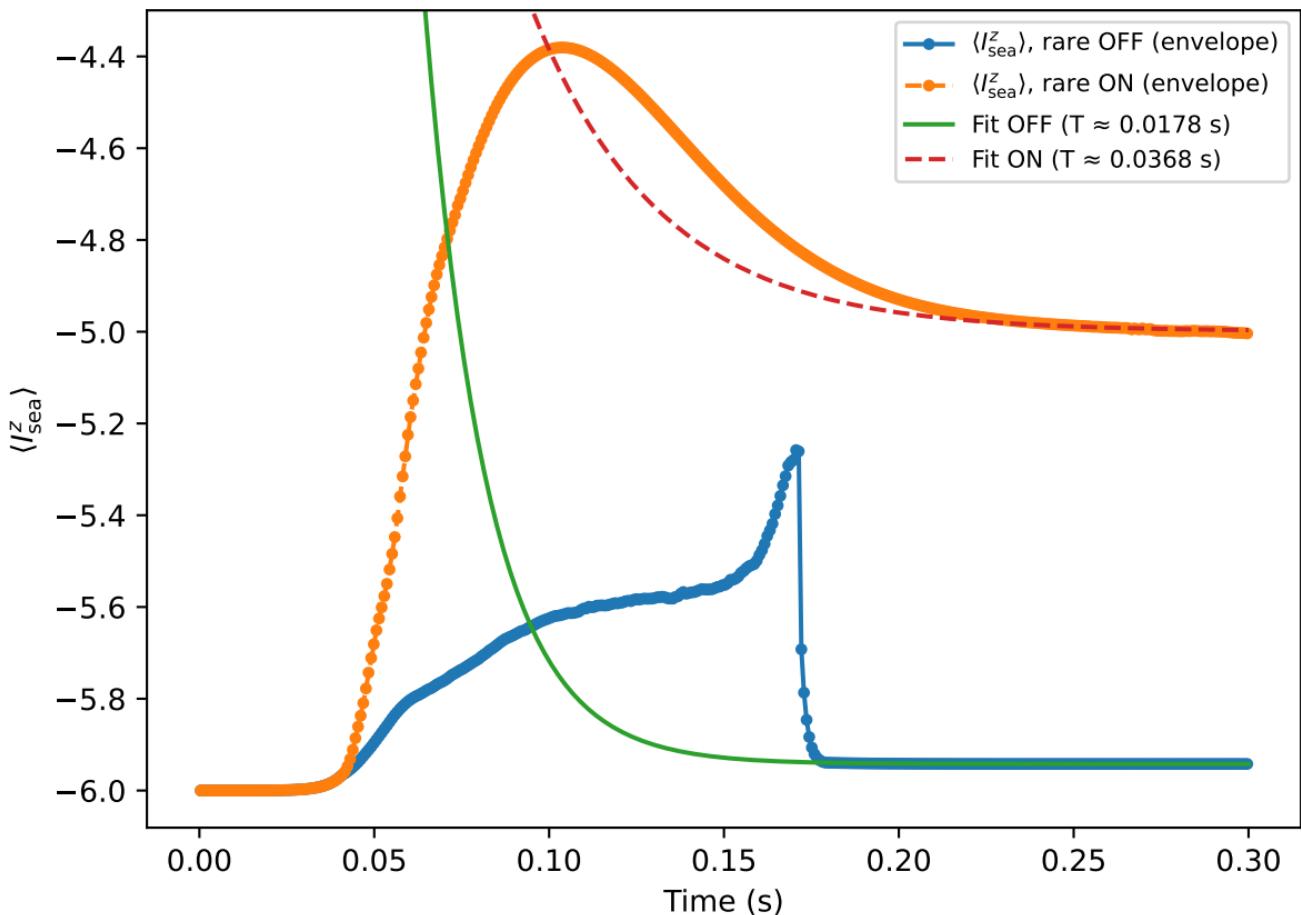
$\delta_A = +12500.0$ Hz (pseudo T_1 envelope)



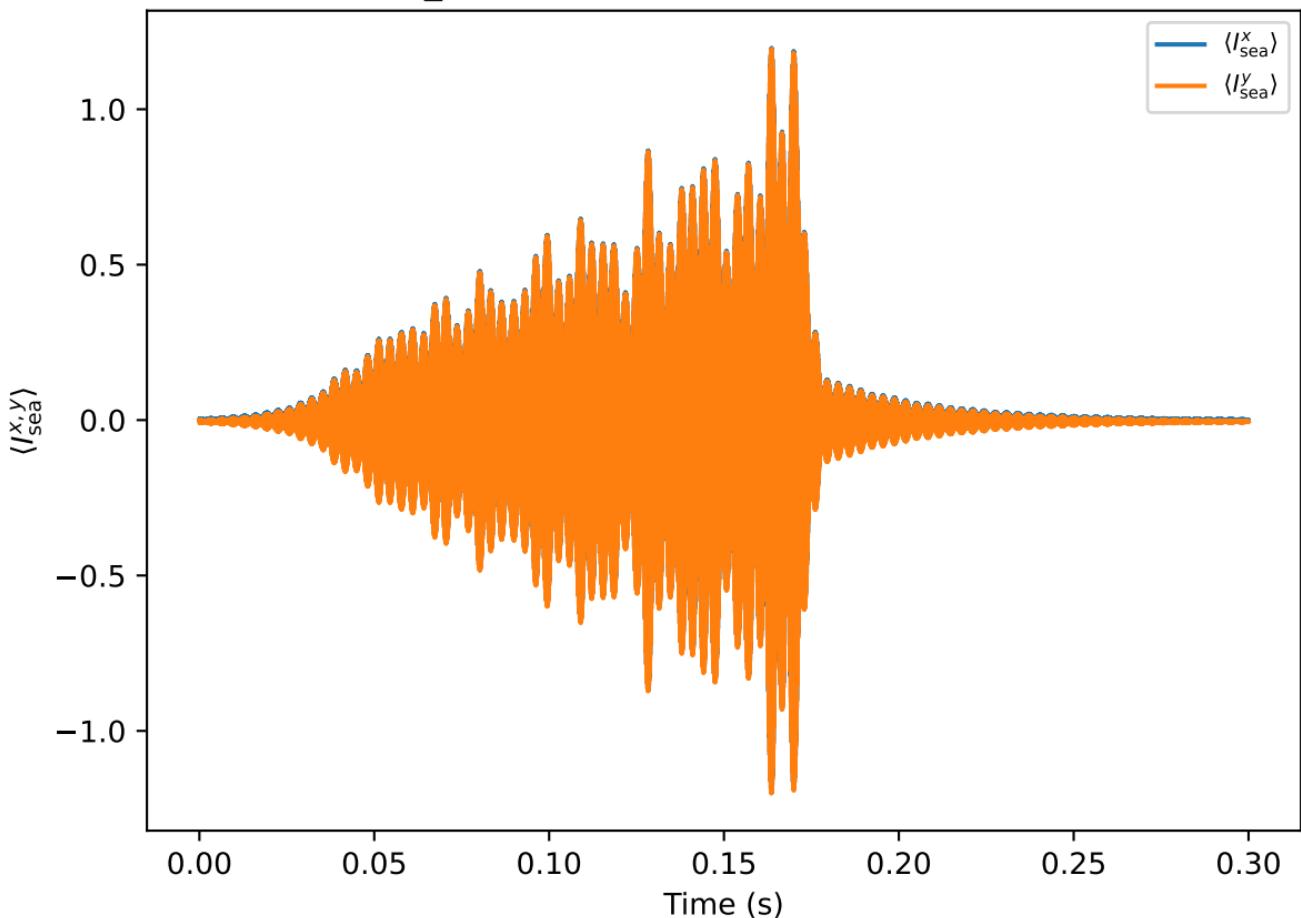
$\delta_A = +12500.0$ Hz (rare drive OFF)



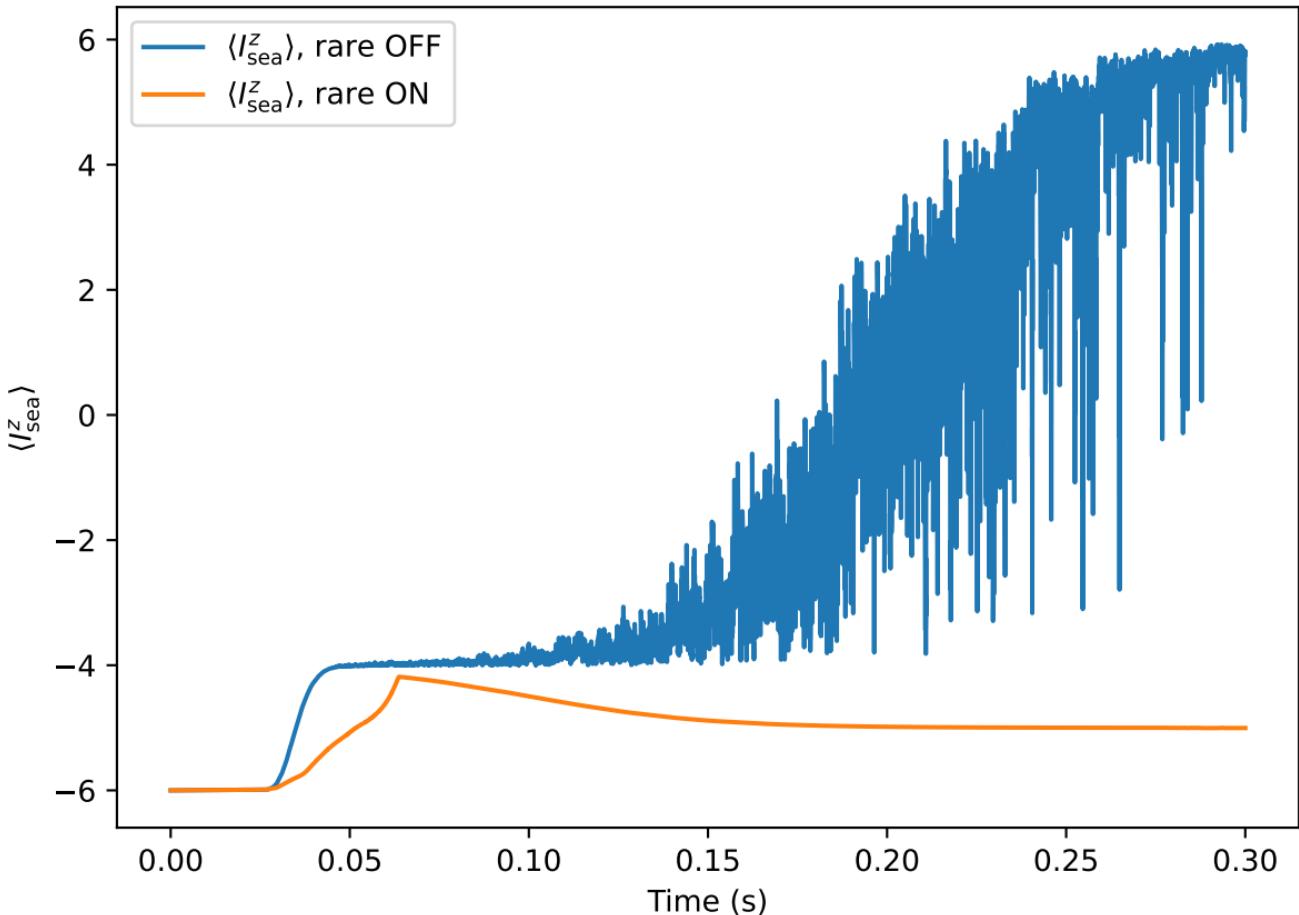
$\delta_A = +25000.0 \text{ Hz}$ 

$\delta_A = +25000.0$ Hz (pseudo T_1 envelope)

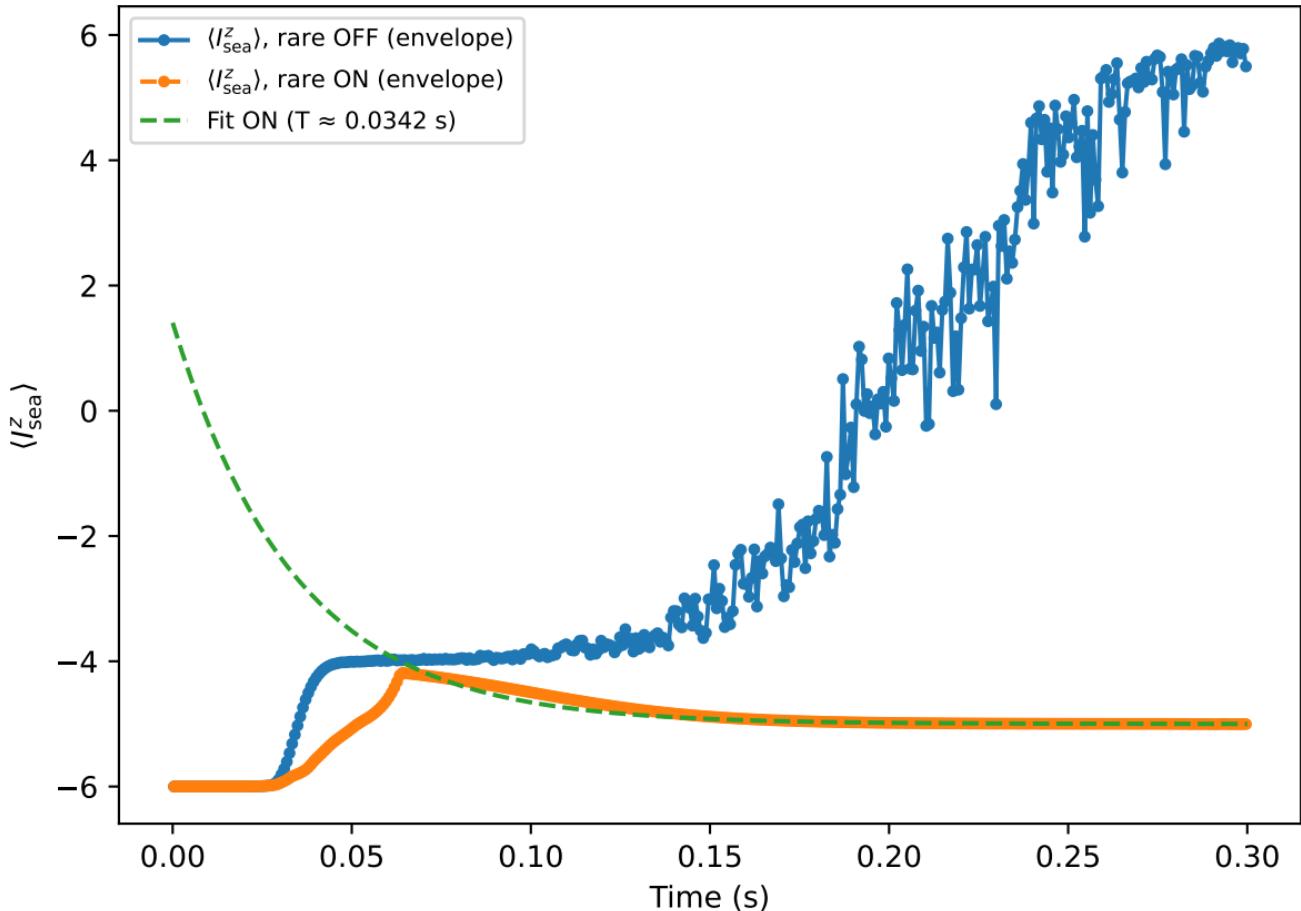
$\delta_A = +25000.0$ Hz (rare drive OFF)



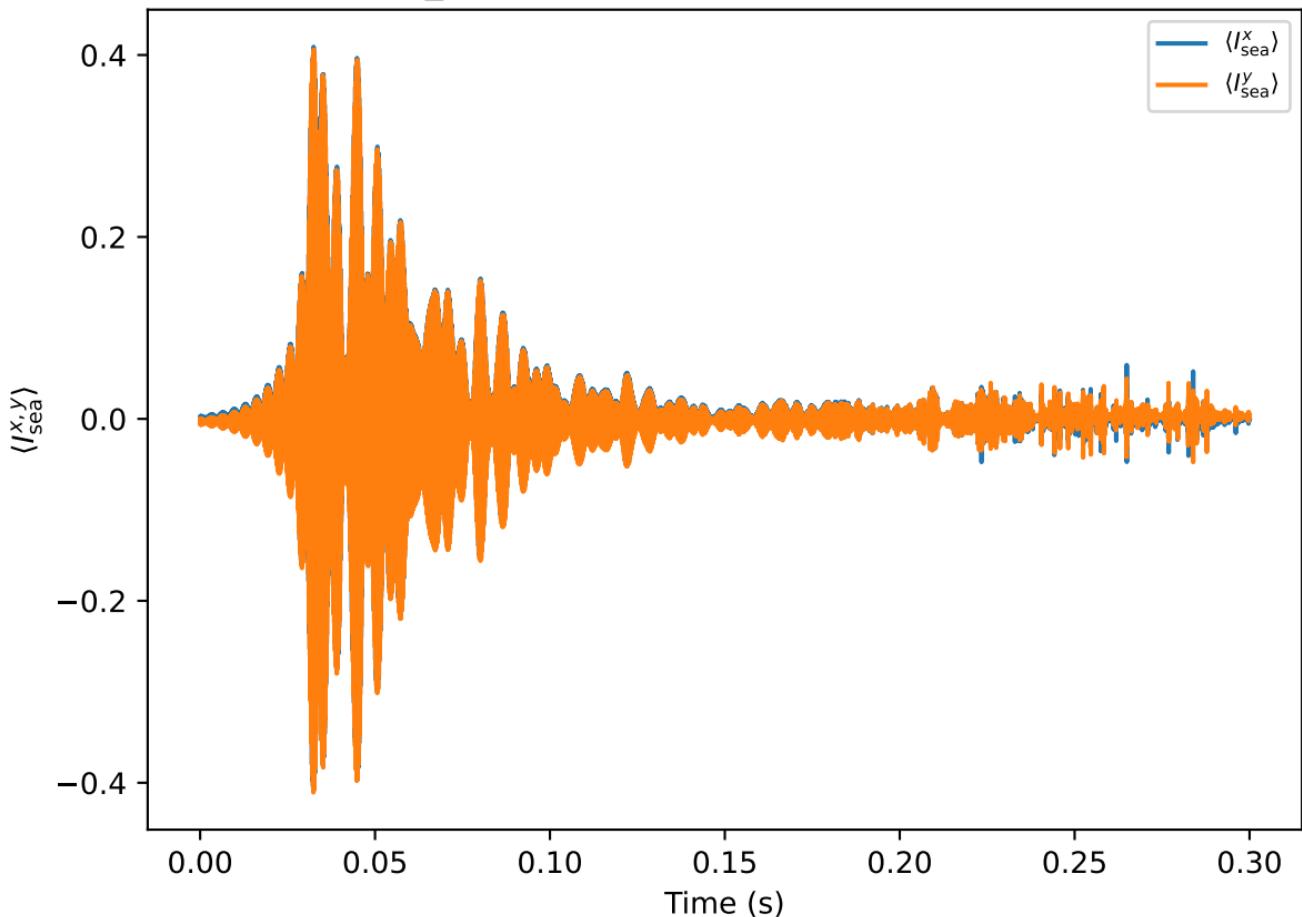
$$\delta_A = +37500.0 \text{ Hz}$$



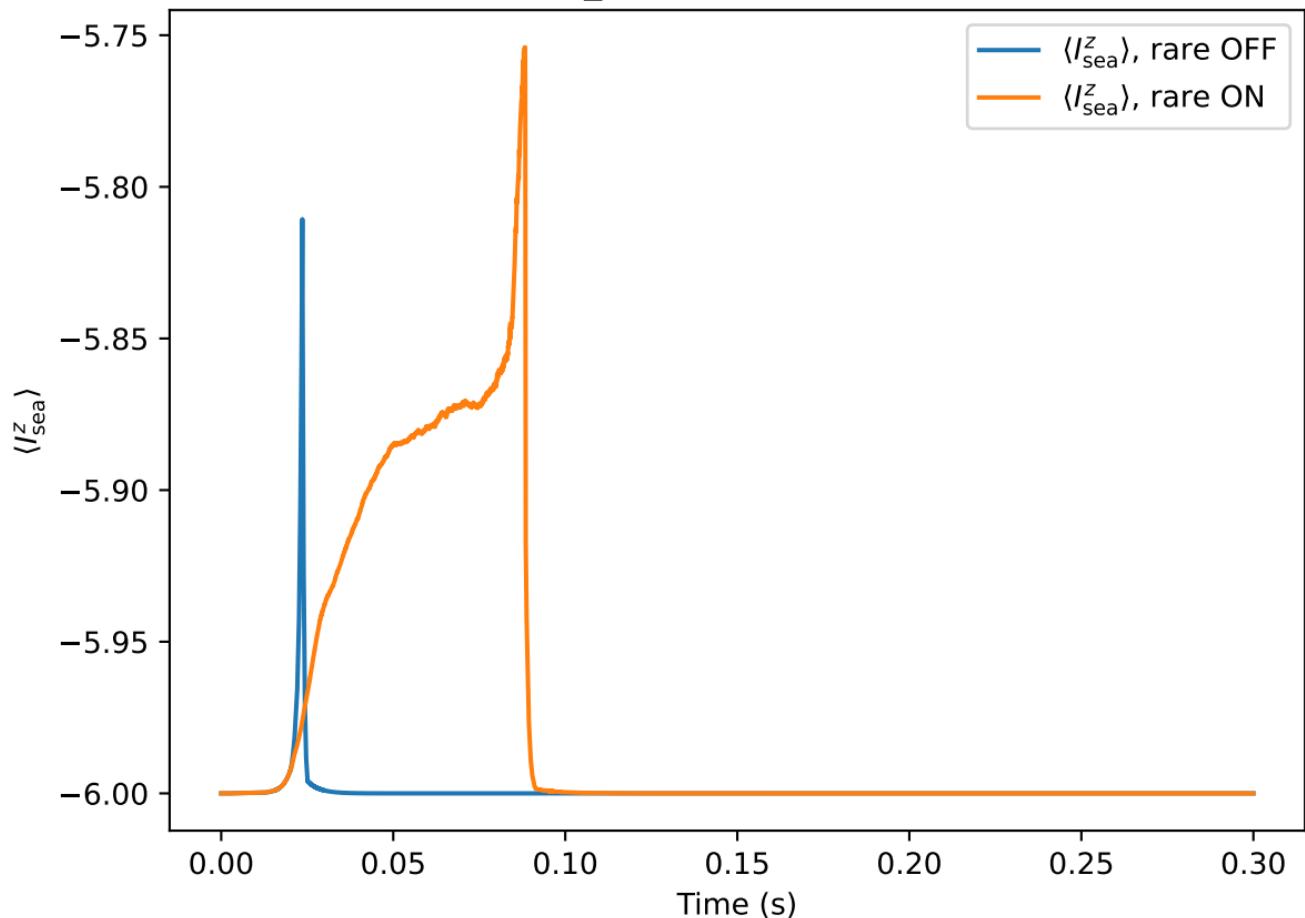
$\delta_A = +37500.0$ Hz (pseudo T_1 envelope)

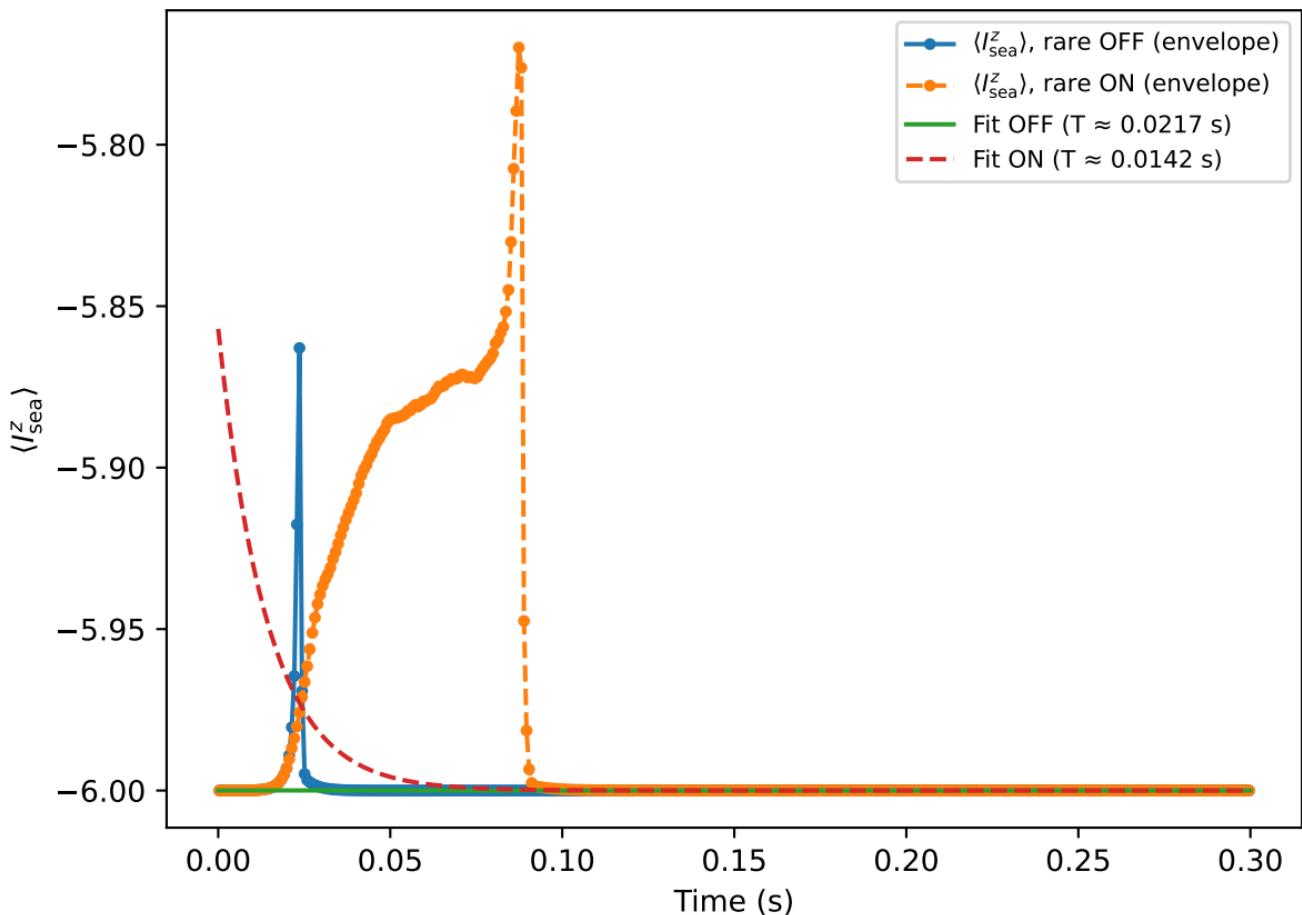


$\delta_A = +37500.0$ Hz (rare drive OFF)

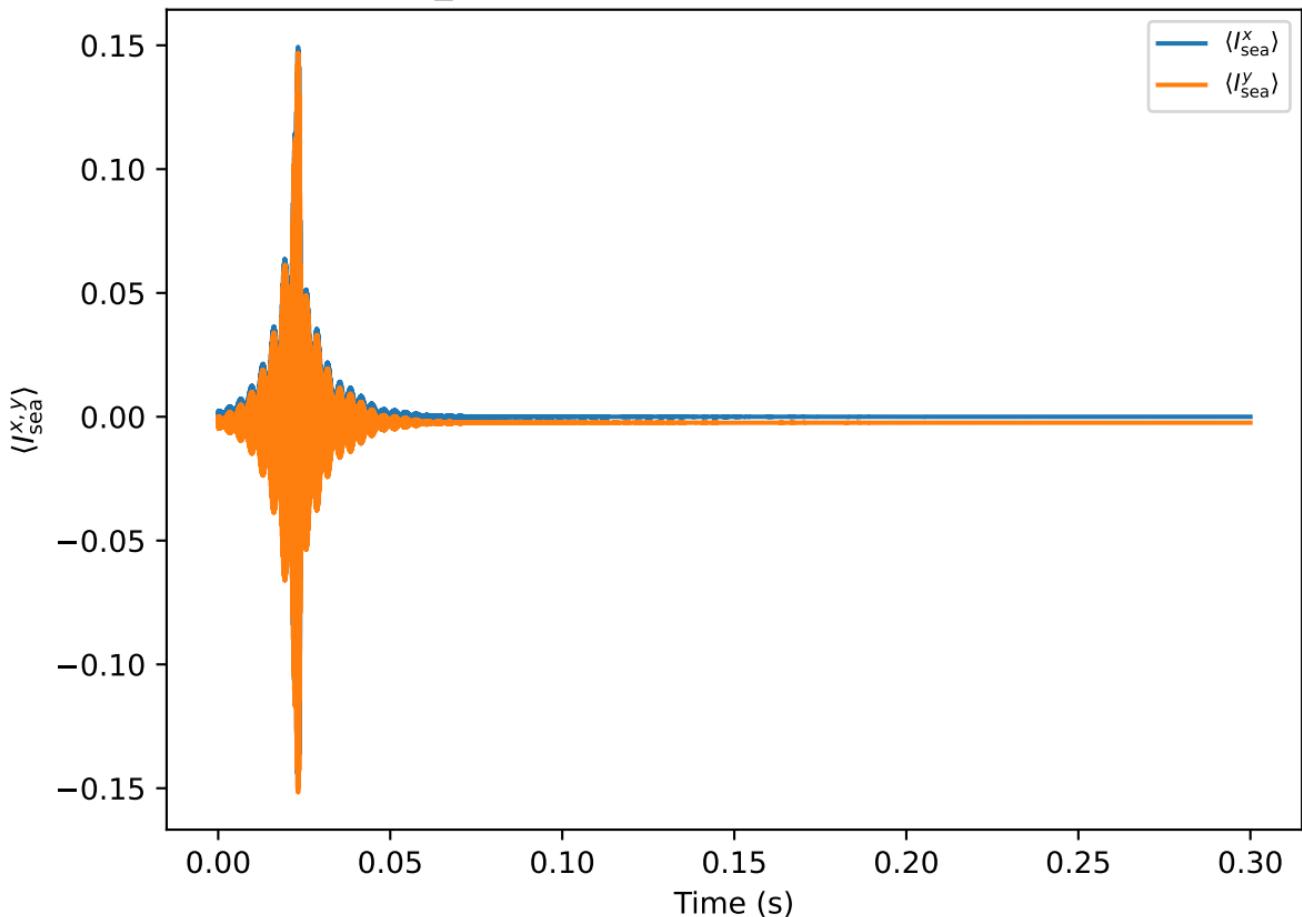


$\delta_A = +50000.0$ Hz

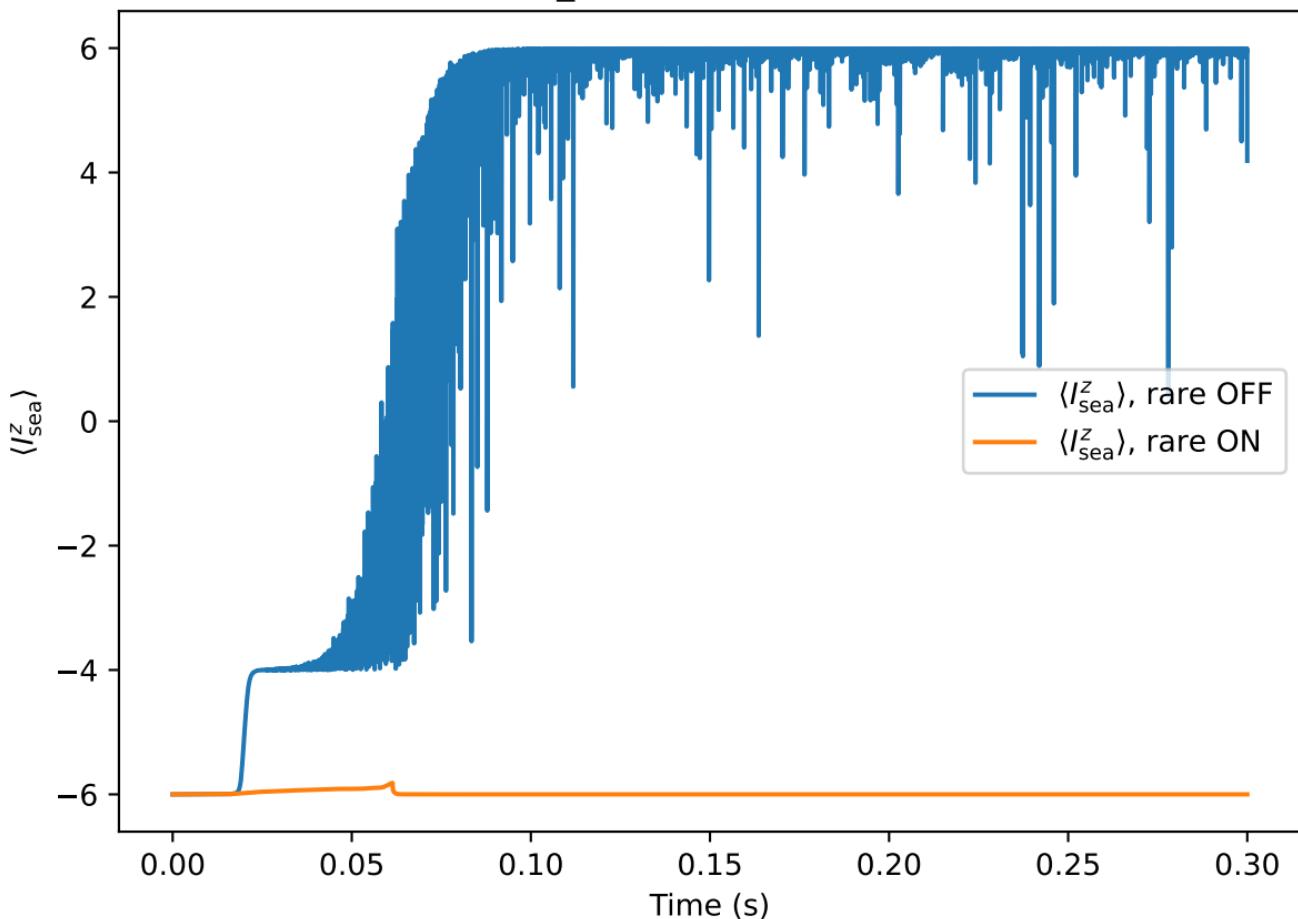


$\delta_A = +50000.0 \text{ Hz (pseudo } T_1 \text{ envelope)}$ 

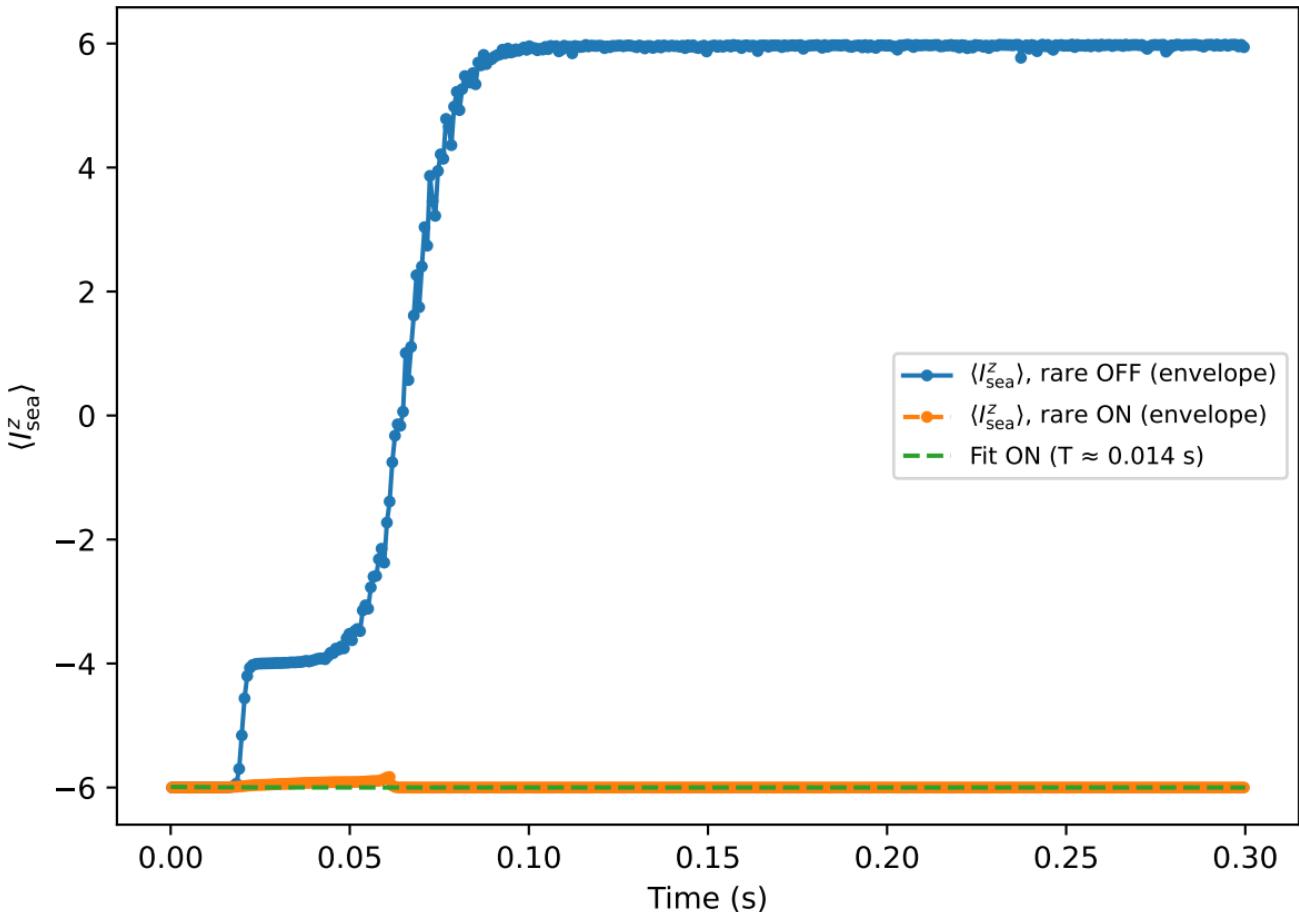
$\delta_A = +50000.0$ Hz (rare drive OFF)



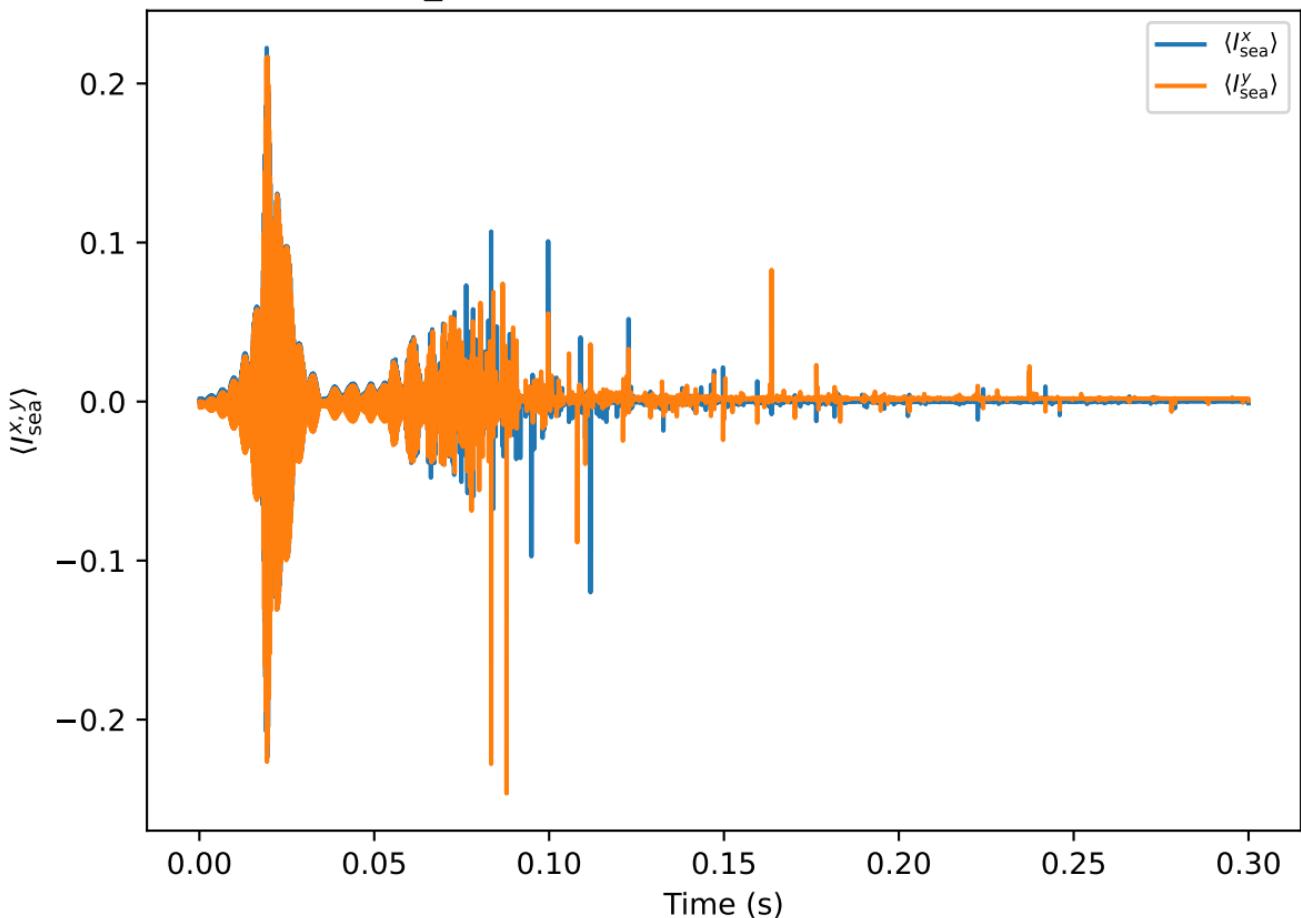
$$\delta_A = +62500.0 \text{ Hz}$$



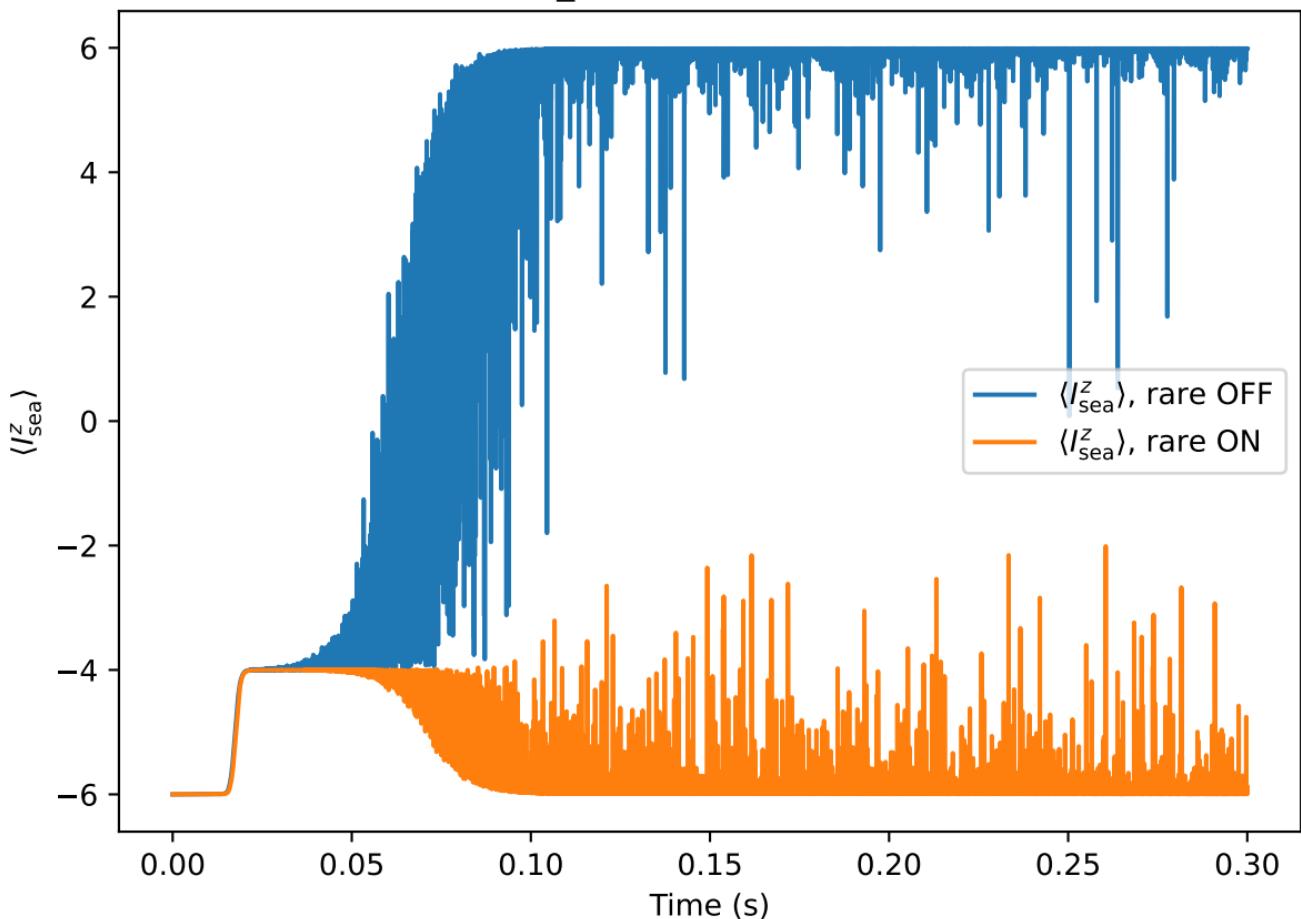
$\delta_A = +62500.0$ Hz (pseudo T_1 envelope)



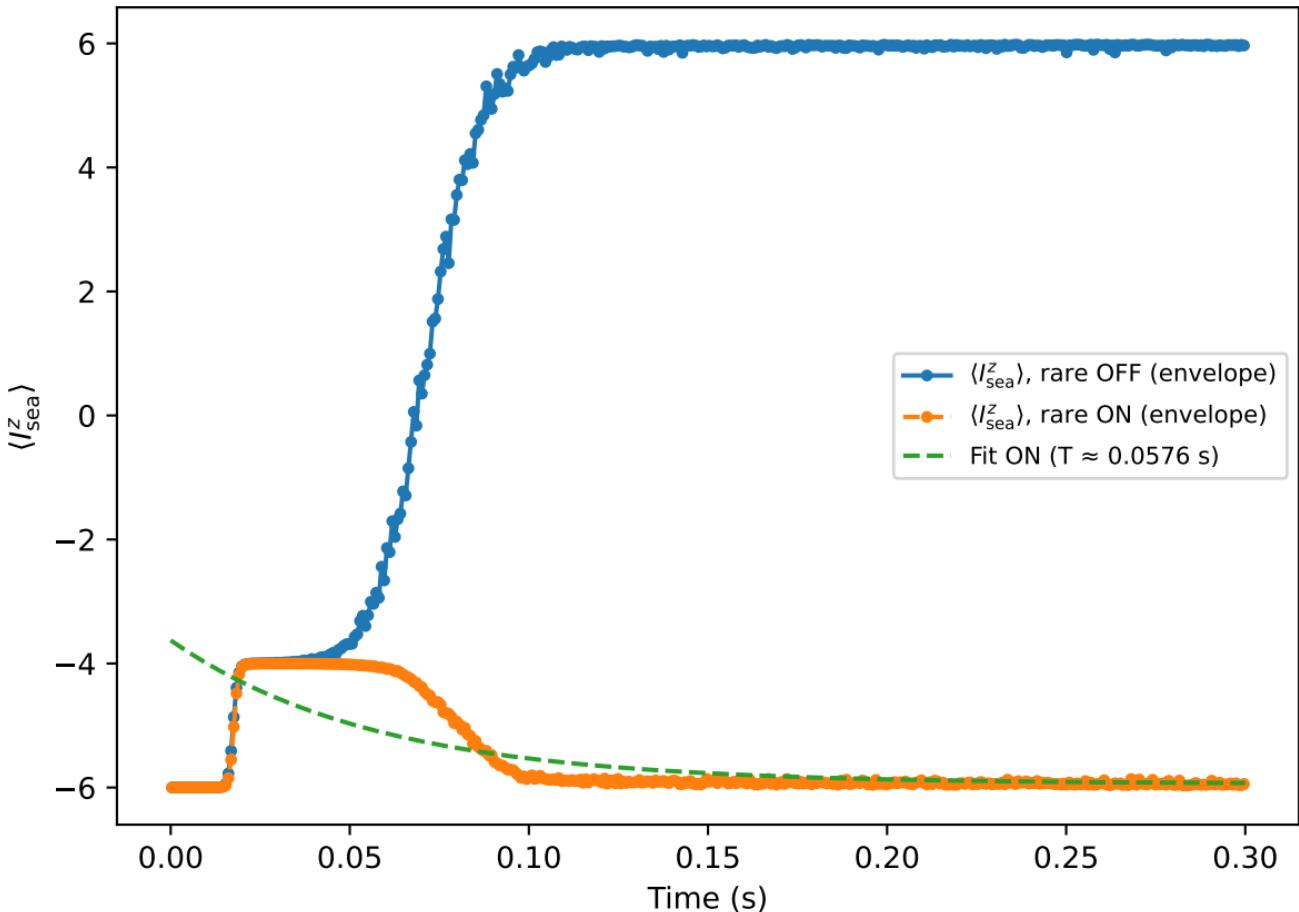
$\delta_A = +62500.0$ Hz (rare drive OFF)



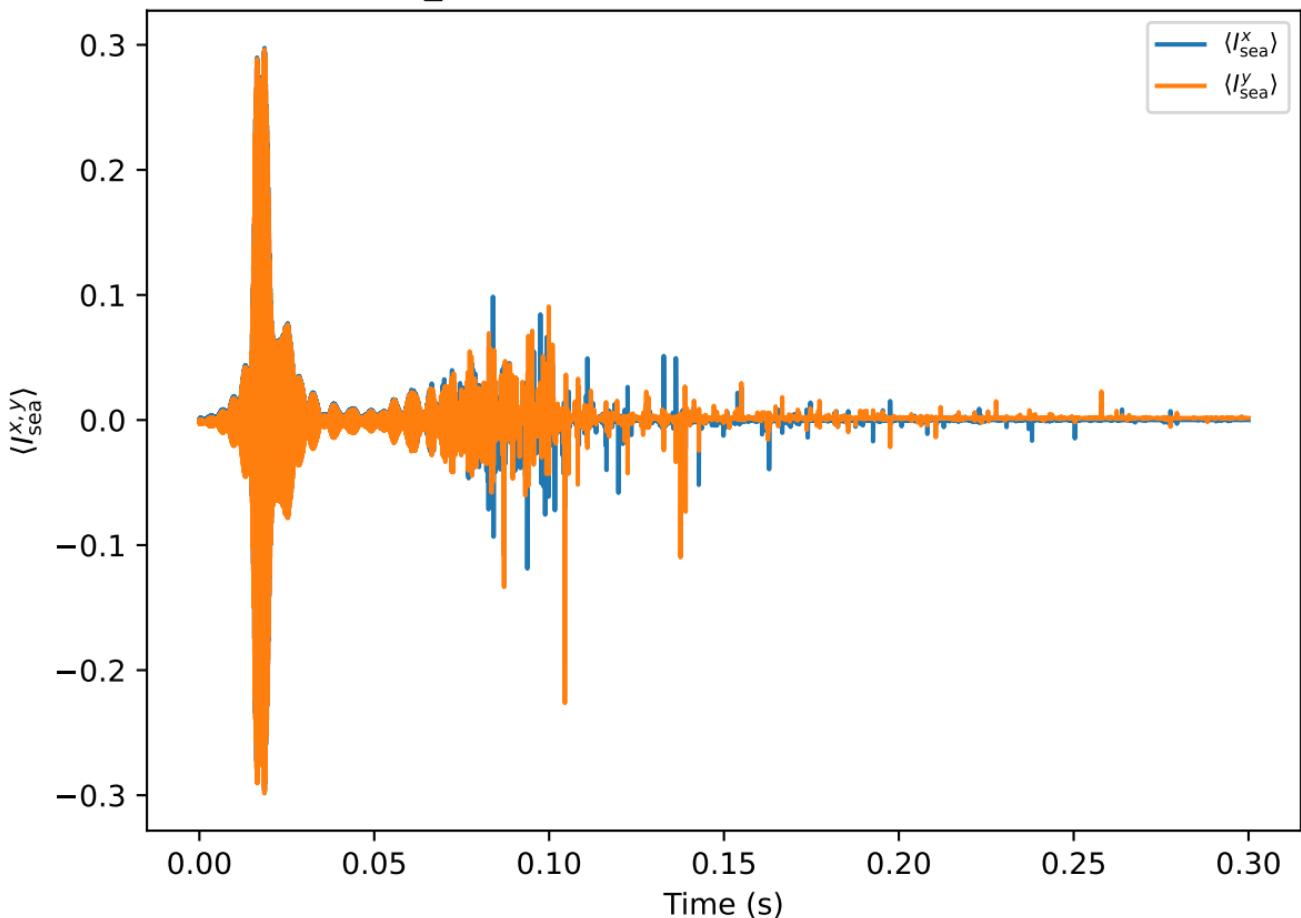
$$\delta_A = +75000.0 \text{ Hz}$$



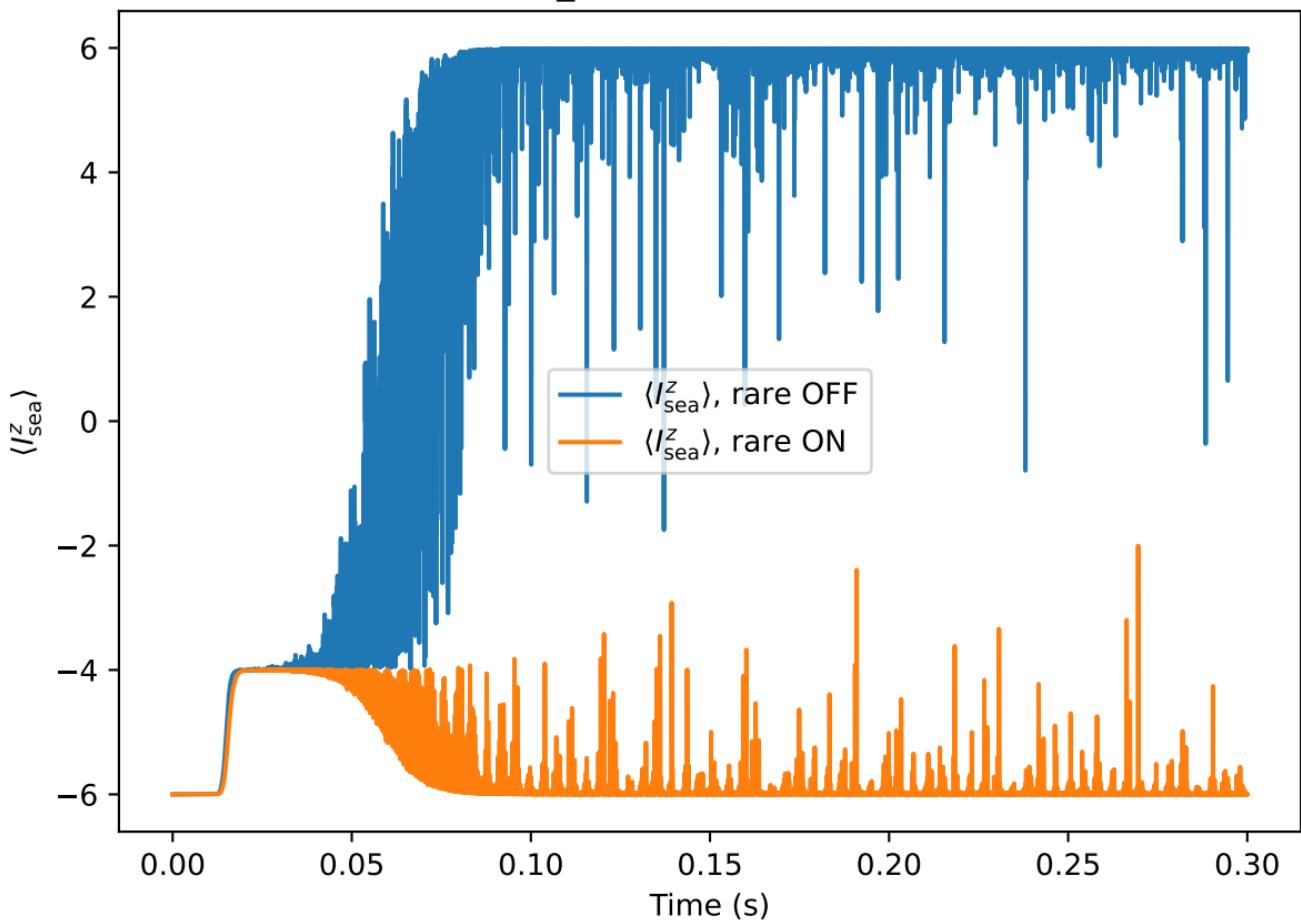
$\delta_A = +75000.0$ Hz (pseudo T_1 envelope)



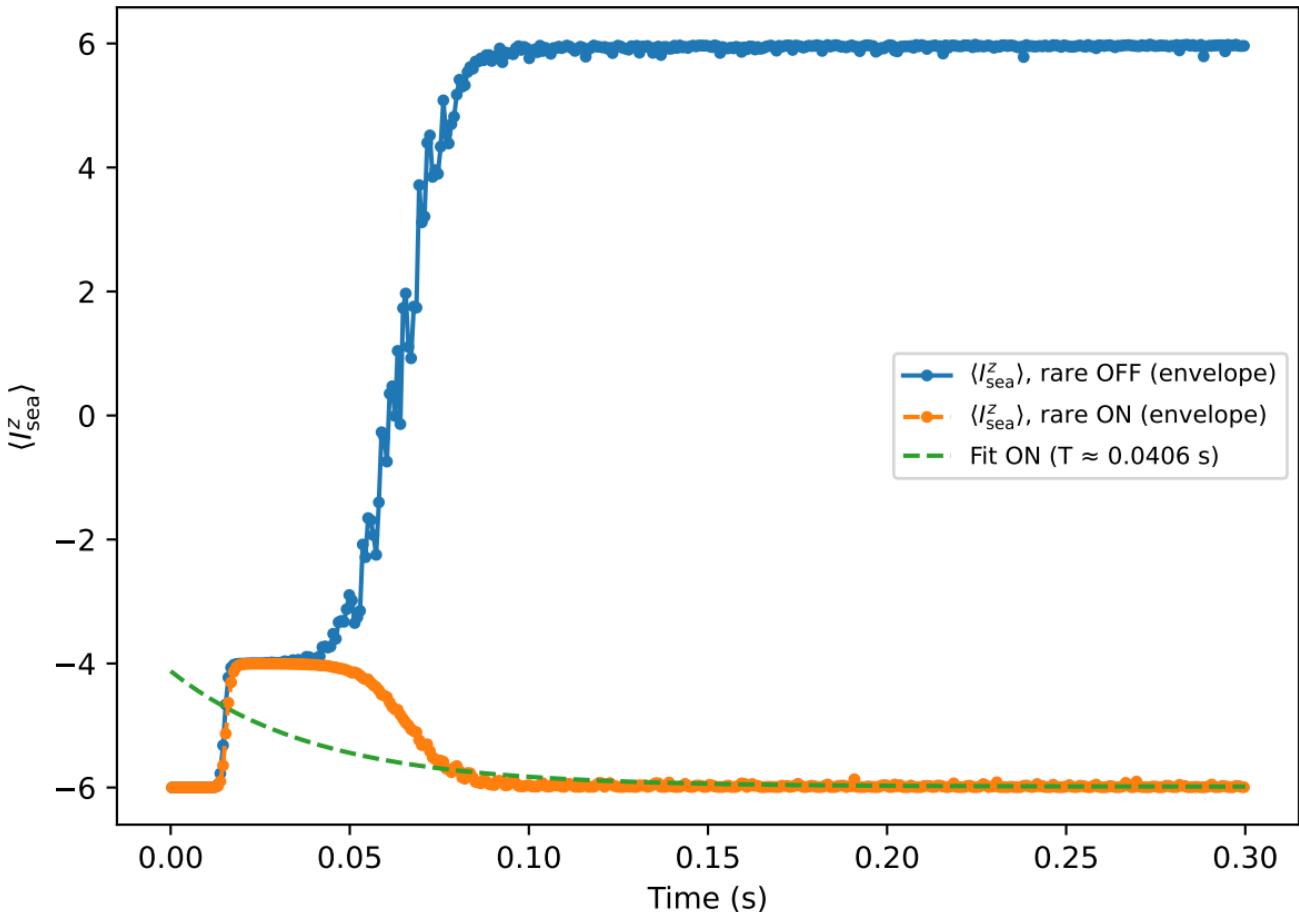
$\delta_A = +75000.0$ Hz (rare drive OFF)



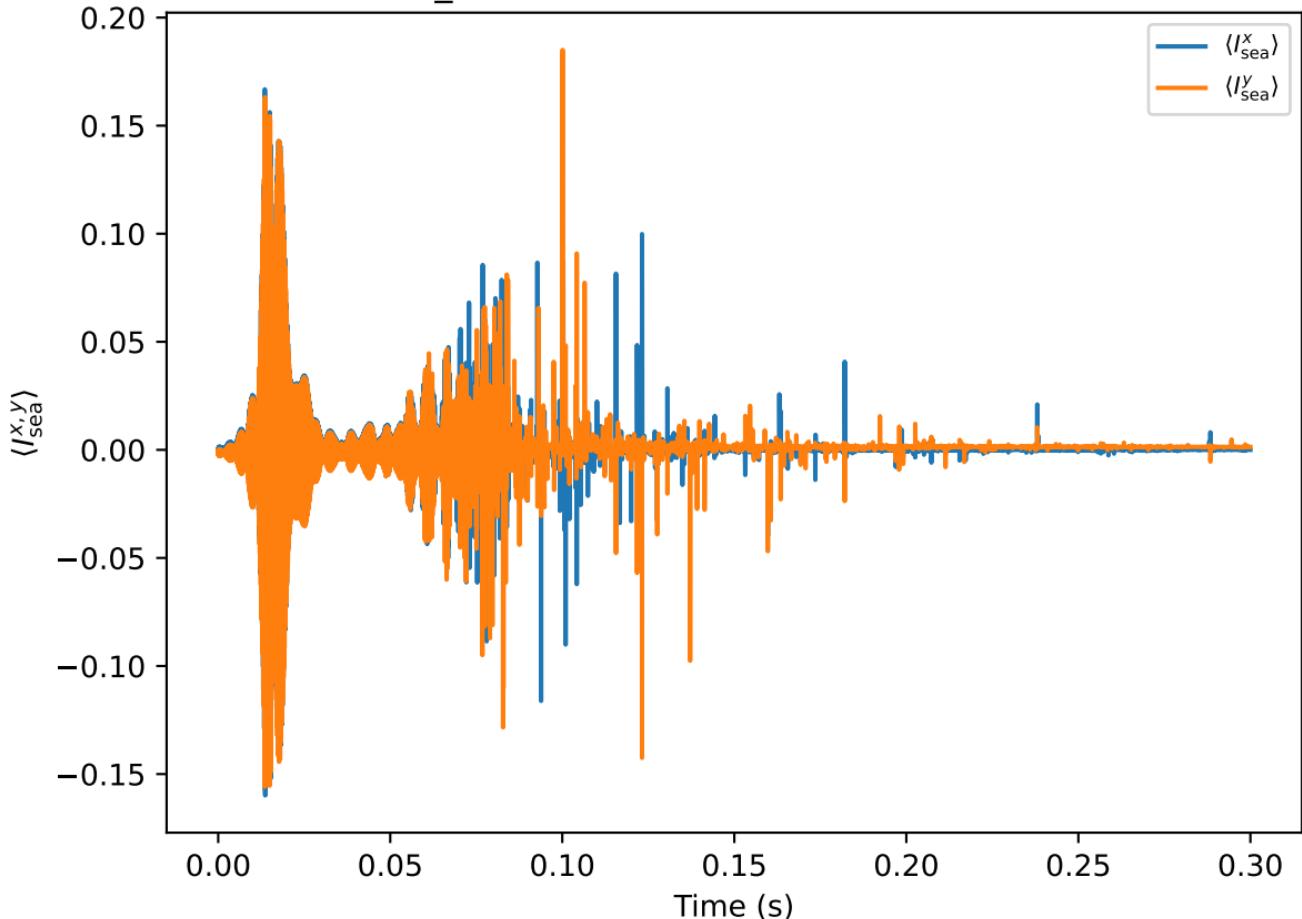
$$\delta_A = +87500.0 \text{ Hz}$$



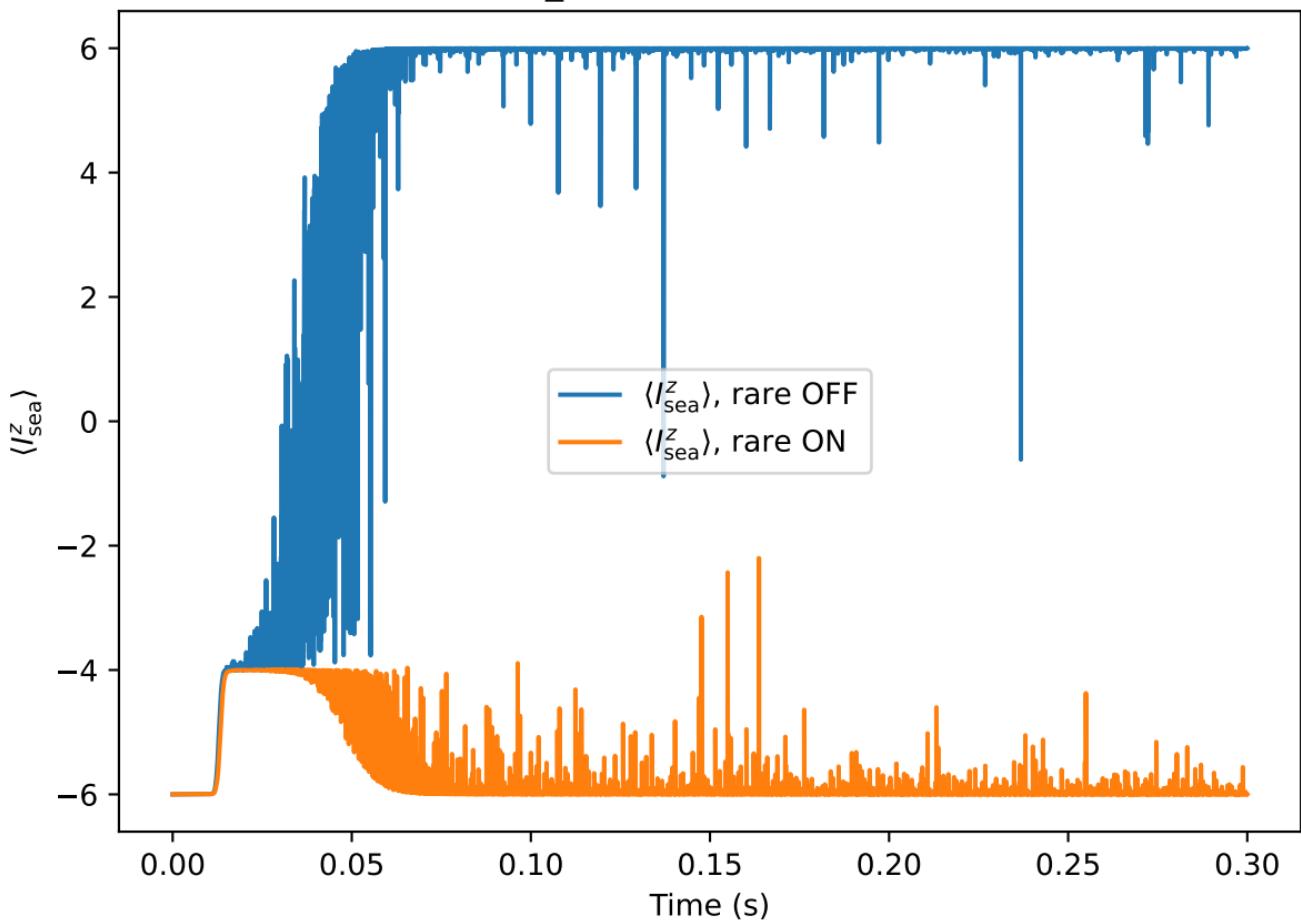
$\delta_A = +87500.0$ Hz (pseudo T_1 envelope)



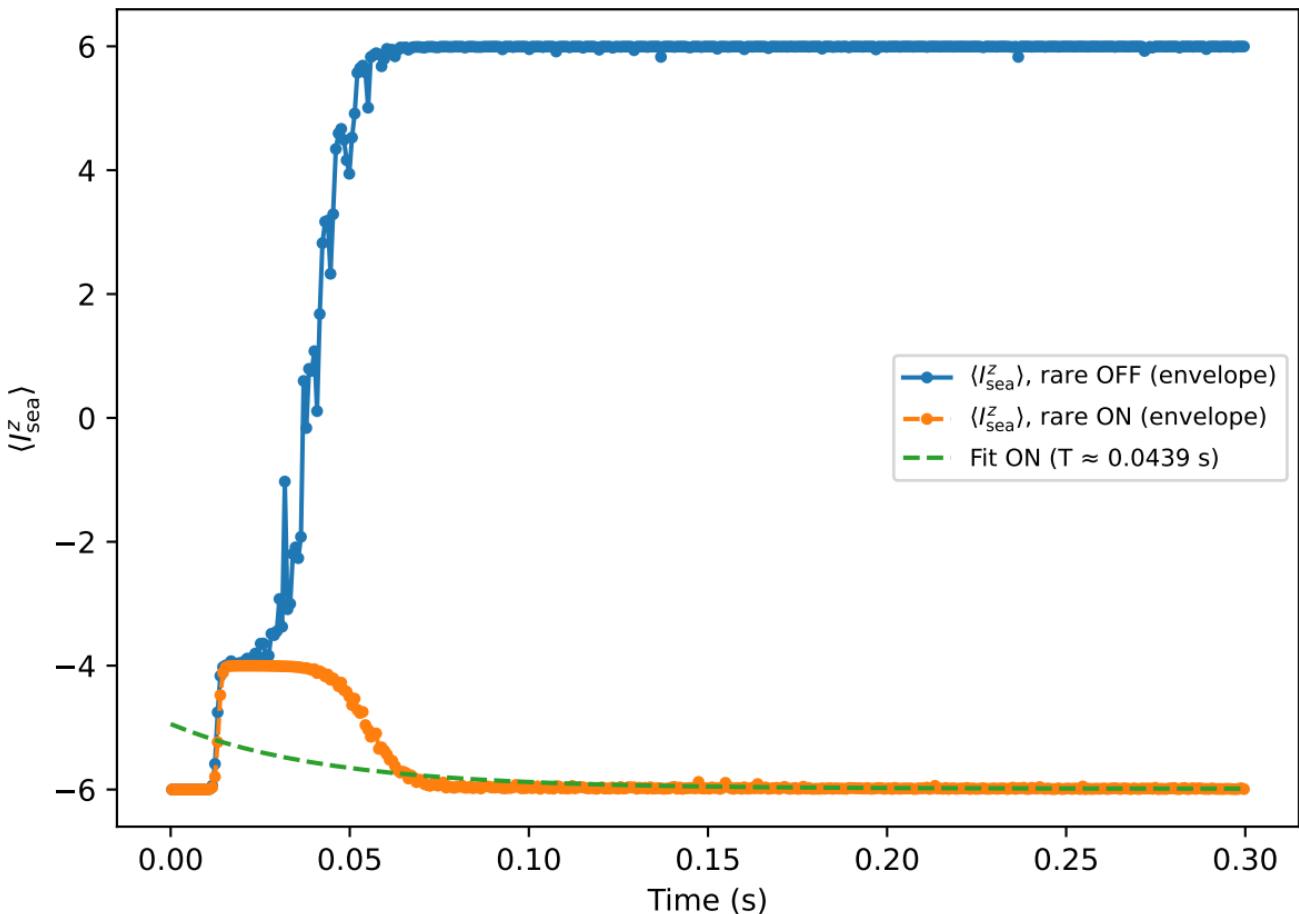
$\delta_A = +87500.0$ Hz (rare drive OFF)



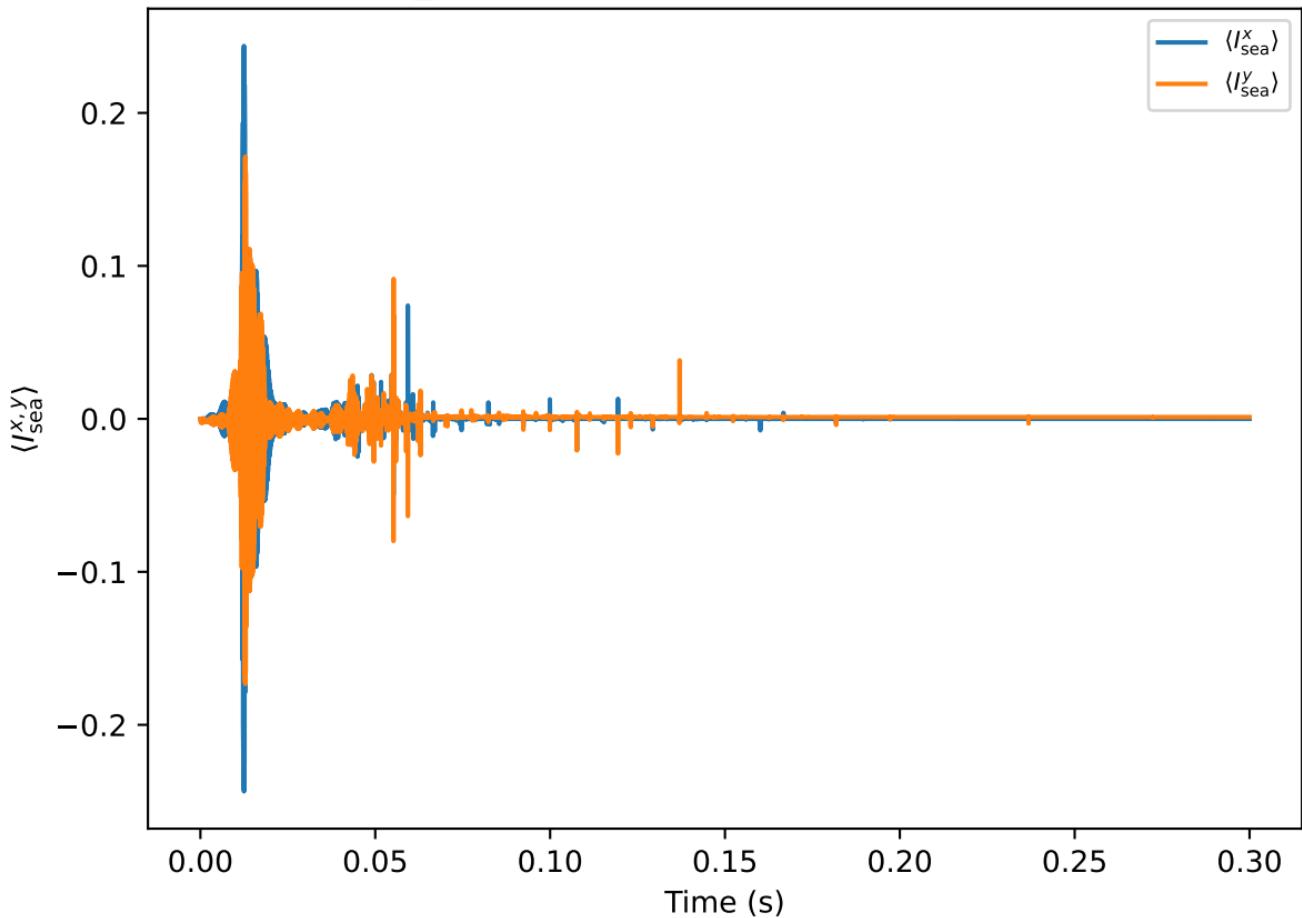
$\delta_A = +100000.0$ Hz



$\delta_A = +100000.0$ Hz (pseudo T_1 envelope)



$\delta_A = +100000.0$ 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	0.188	47.6
+12500.0	0.0442	0.0886
+25000.0	0.0178	0.0368
+37500.0	NA	0.0342
+50000.0	0.0217	0.0142
+62500.0	NA	0.014
+75000.0	NA	0.0576
+87500.0	NA	0.0406
+100000.0	NA	0.0439