

Sea detuning sweep report (Ga sea / Al rare)

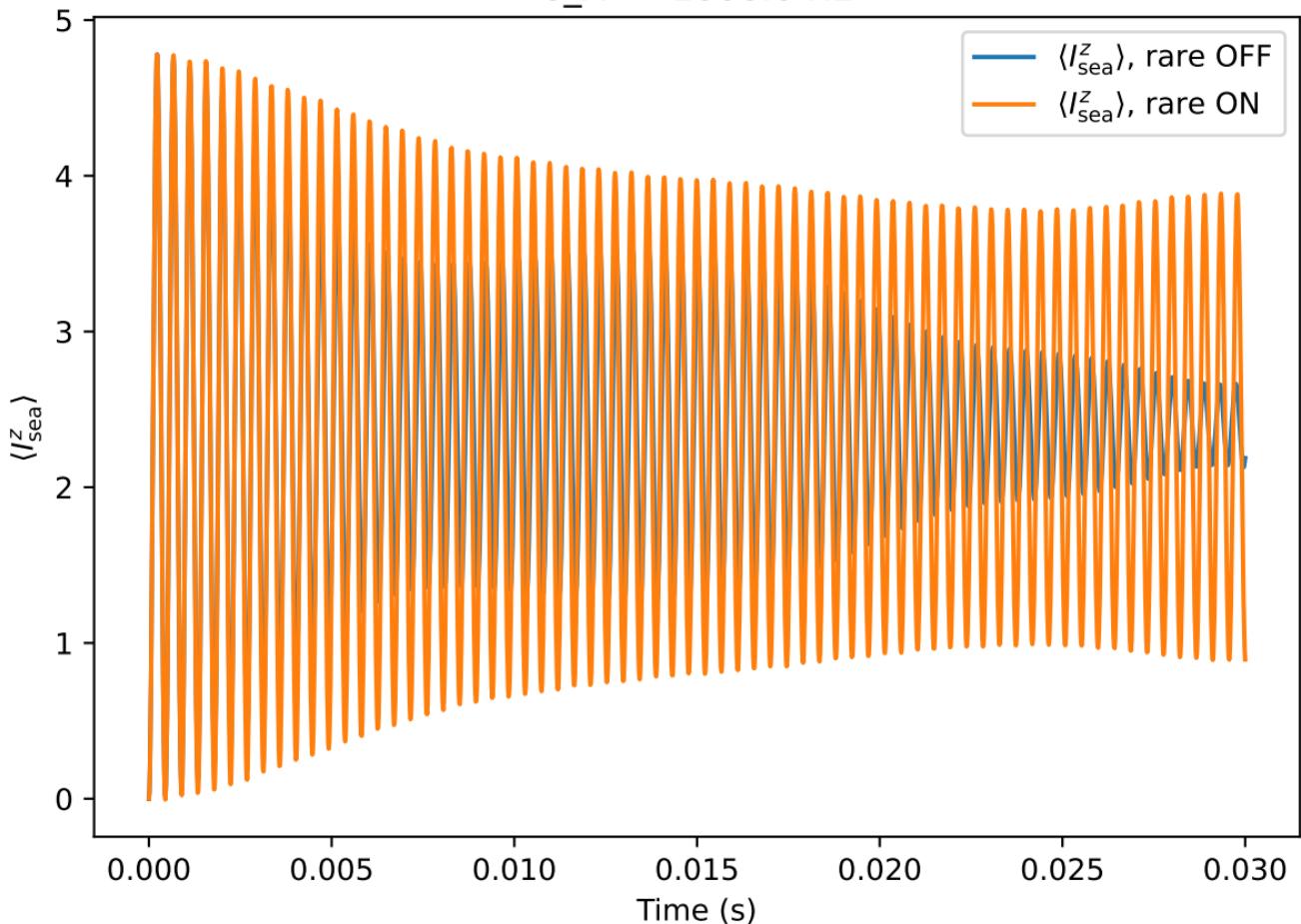
Global parameters (constant across sweep):

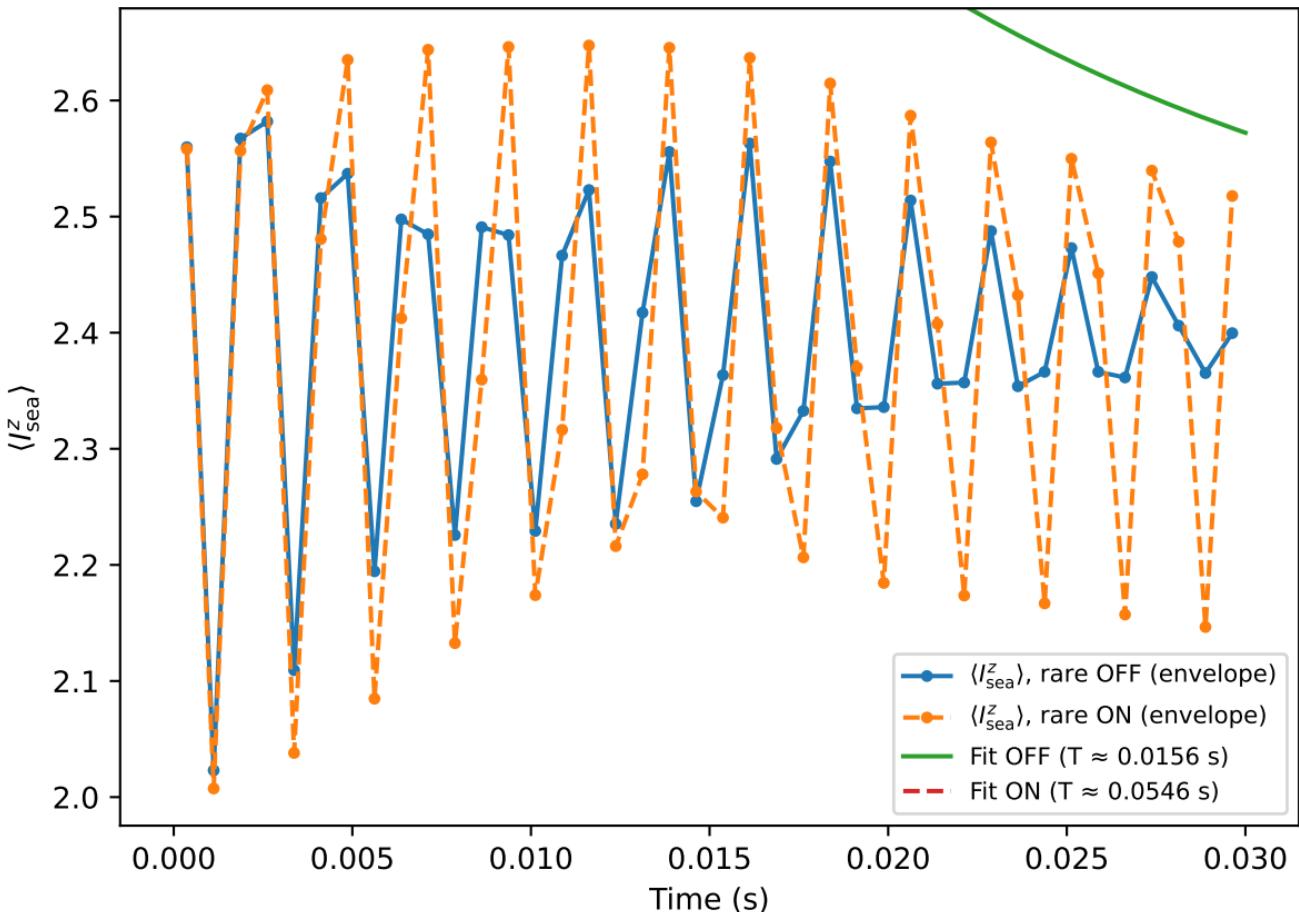
f_Az (sea Larmor)	= 34.062 MHz
f_Rz (rare Larmor)	= 33.308 MHz
f1A (sea Rabi)	= 2.000 kHz
f1R (rare Rabi)	= 1.000 kHz
gamma_sea	= 7.134e+07 rad·s ⁻¹ ·T ⁻¹
gamma_rare	= 6.976e+07 rad·s ⁻¹ ·T ⁻¹
B0_common	= 3.000 T
B1_sea	= 1.761e-04 T
B1_rare	= 9.007e-05 T
dipolar_scale_SI	= 1.055e-41
shell_scale	= 0.300 nm
t_final	= 3.000e-02 s
steps	= 2000
n_sea	= 12
phi_sea	= 0.000 rad
phi_rare	= 0.000 rad

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

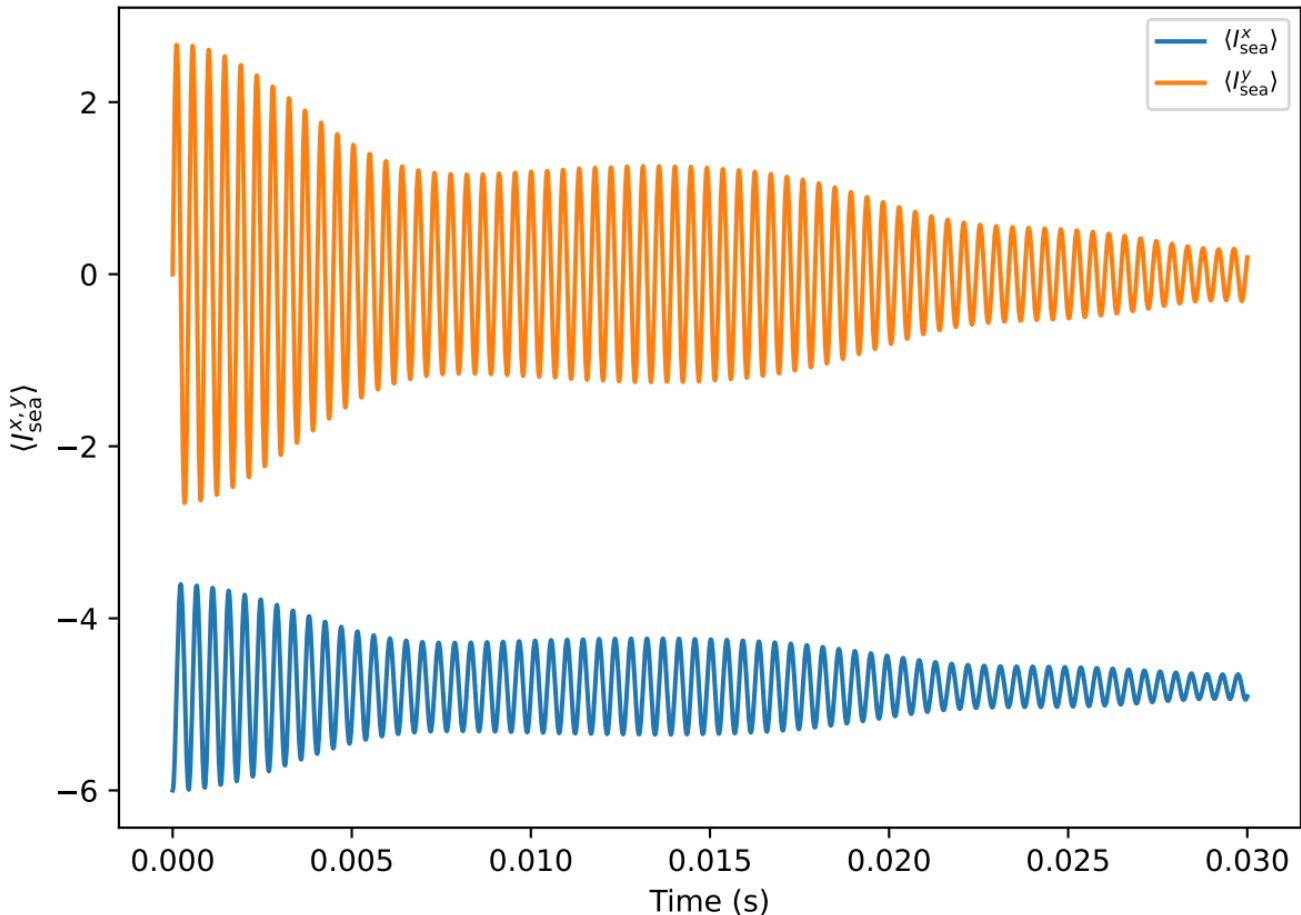
-1000.0, -888.9, -777.8, -666.7, -555.6, -444.4, -333.3, -222.2, -111.1, +0.0

$\delta_A = -1000.0$ Hz

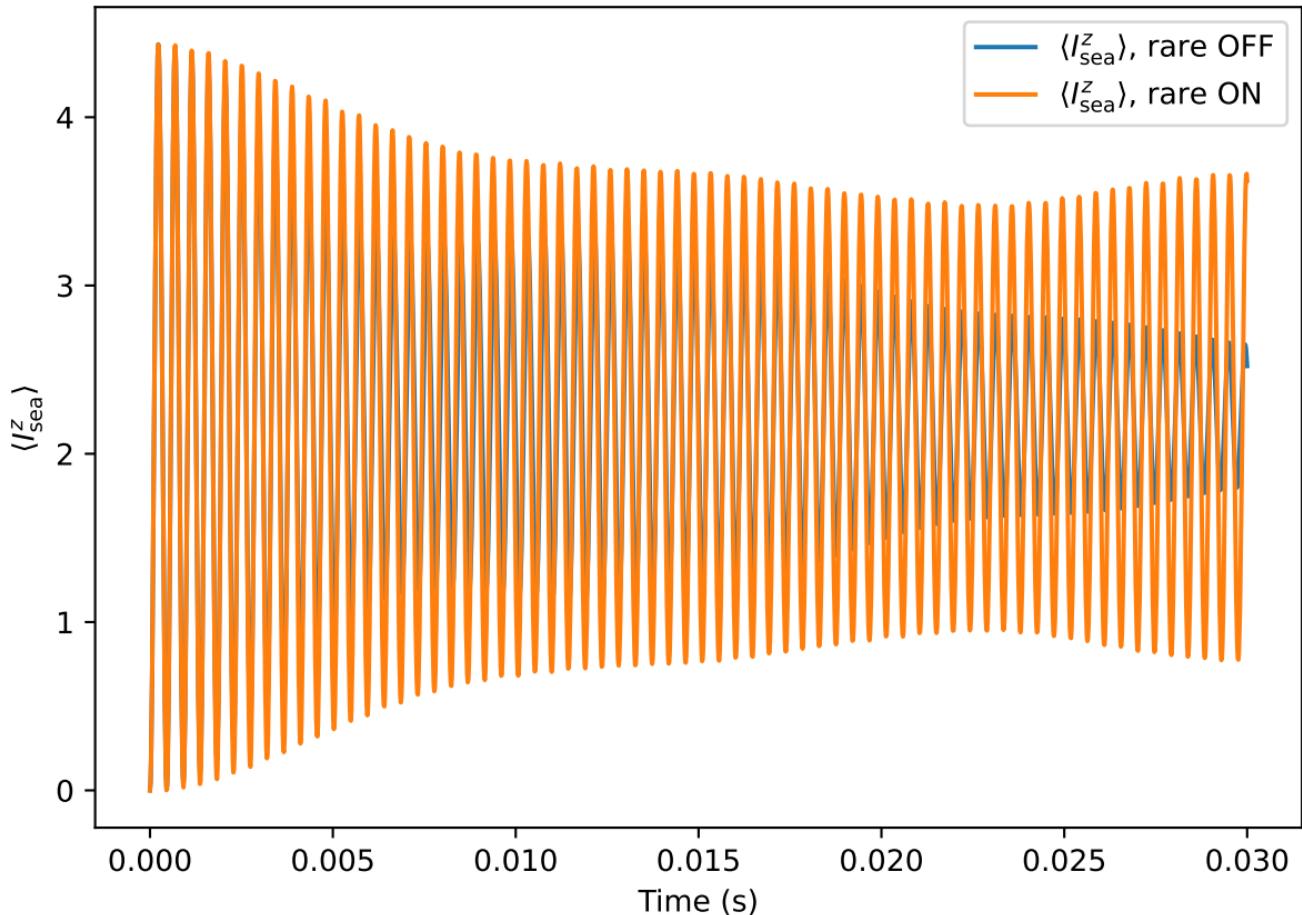


$\delta_A = -1000.0$ Hz (pseudo T_1 envelope)

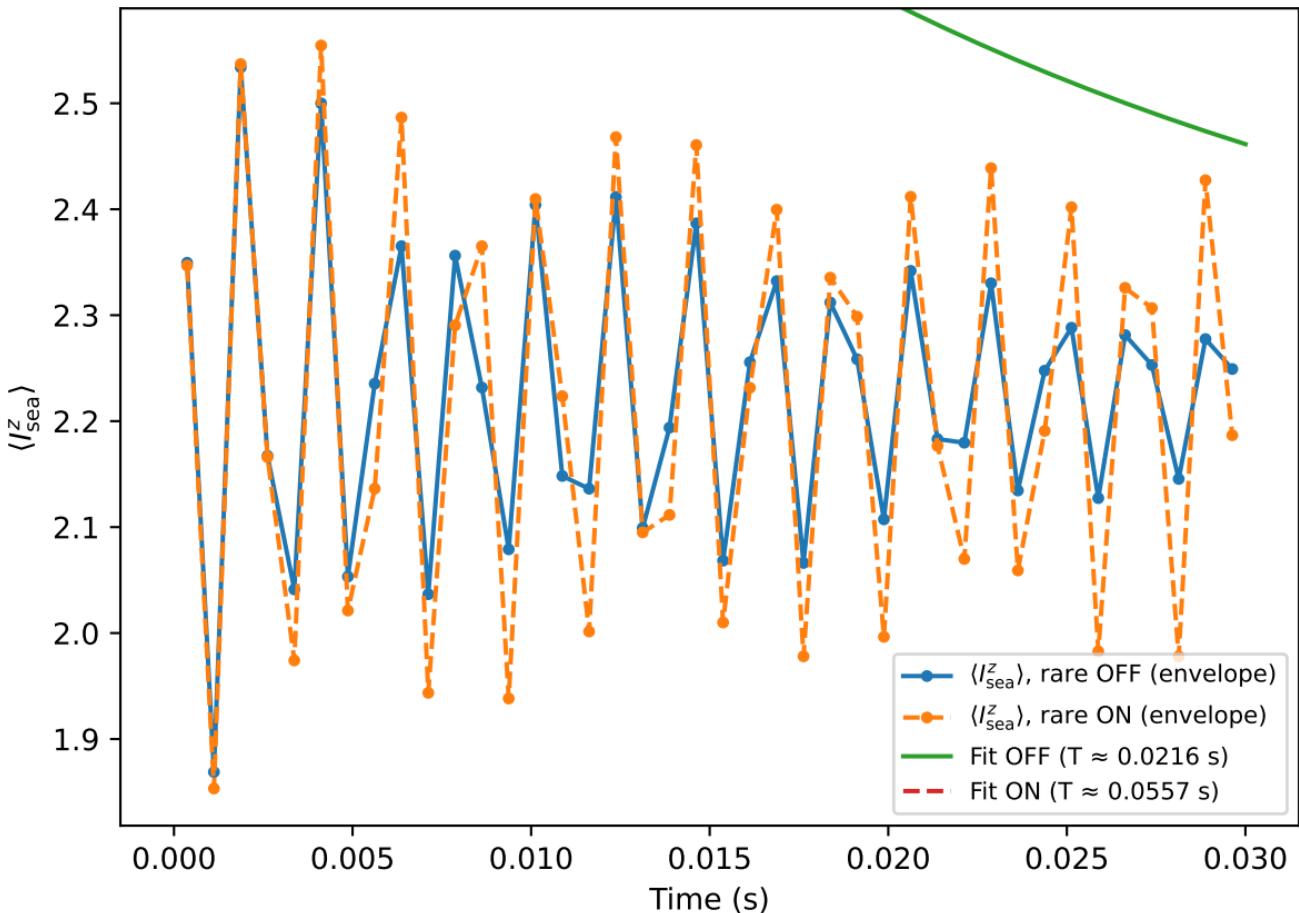
$\delta_A = -1000.0$ Hz (rare drive OFF)



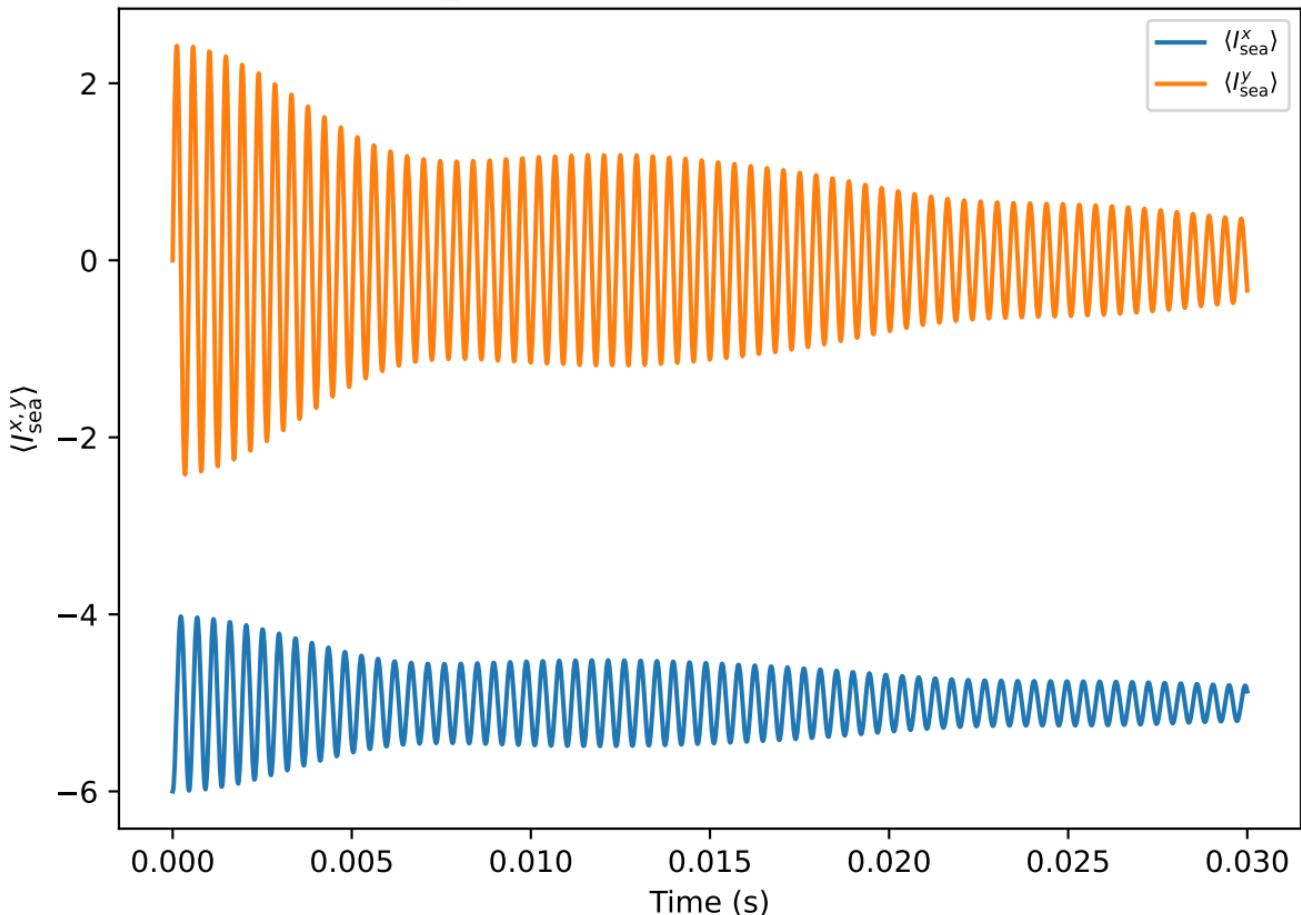
$$\delta_A = -888.9 \text{ Hz}$$



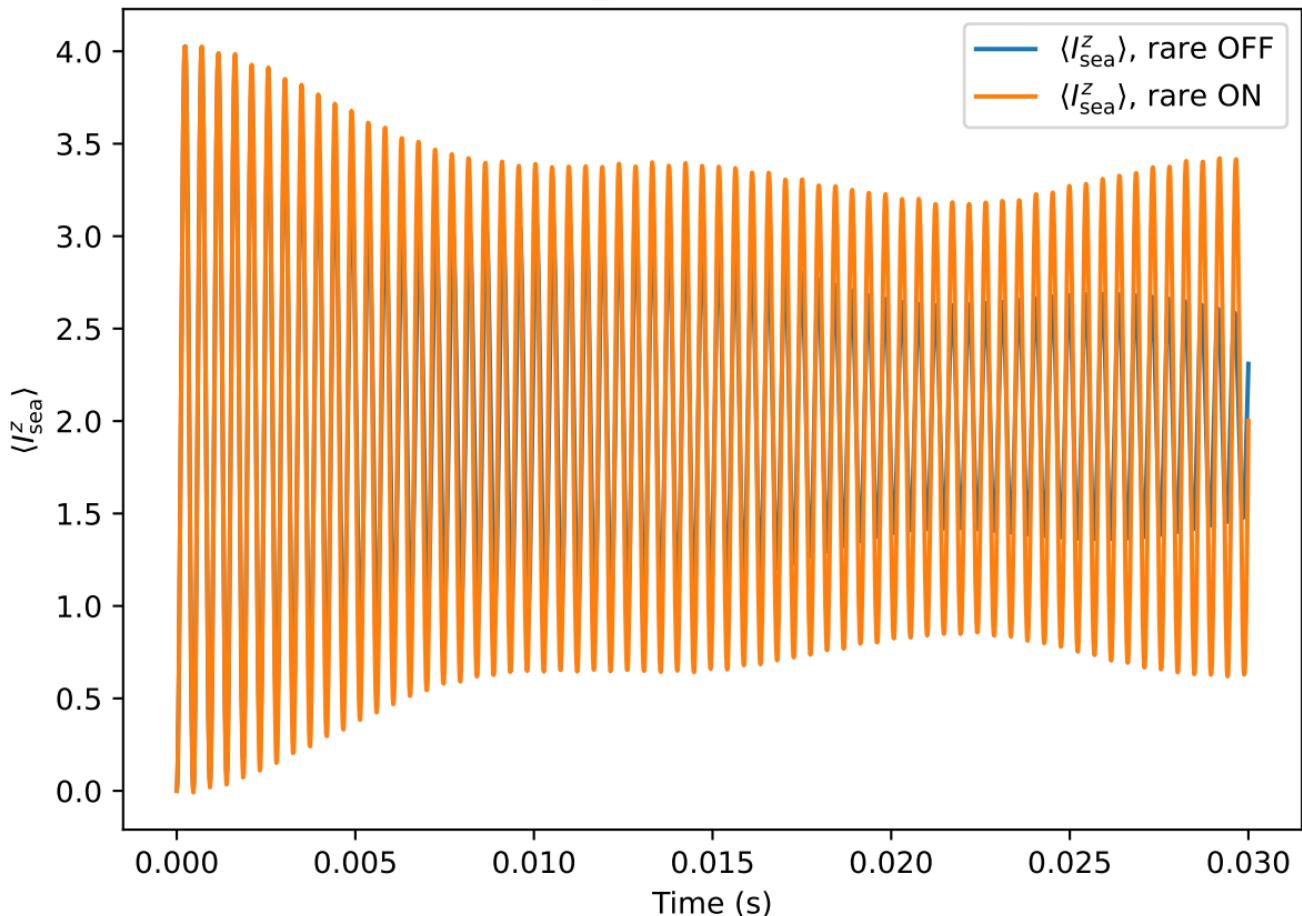
$\delta_A = -888.9$ Hz (pseudo T_1 envelope)



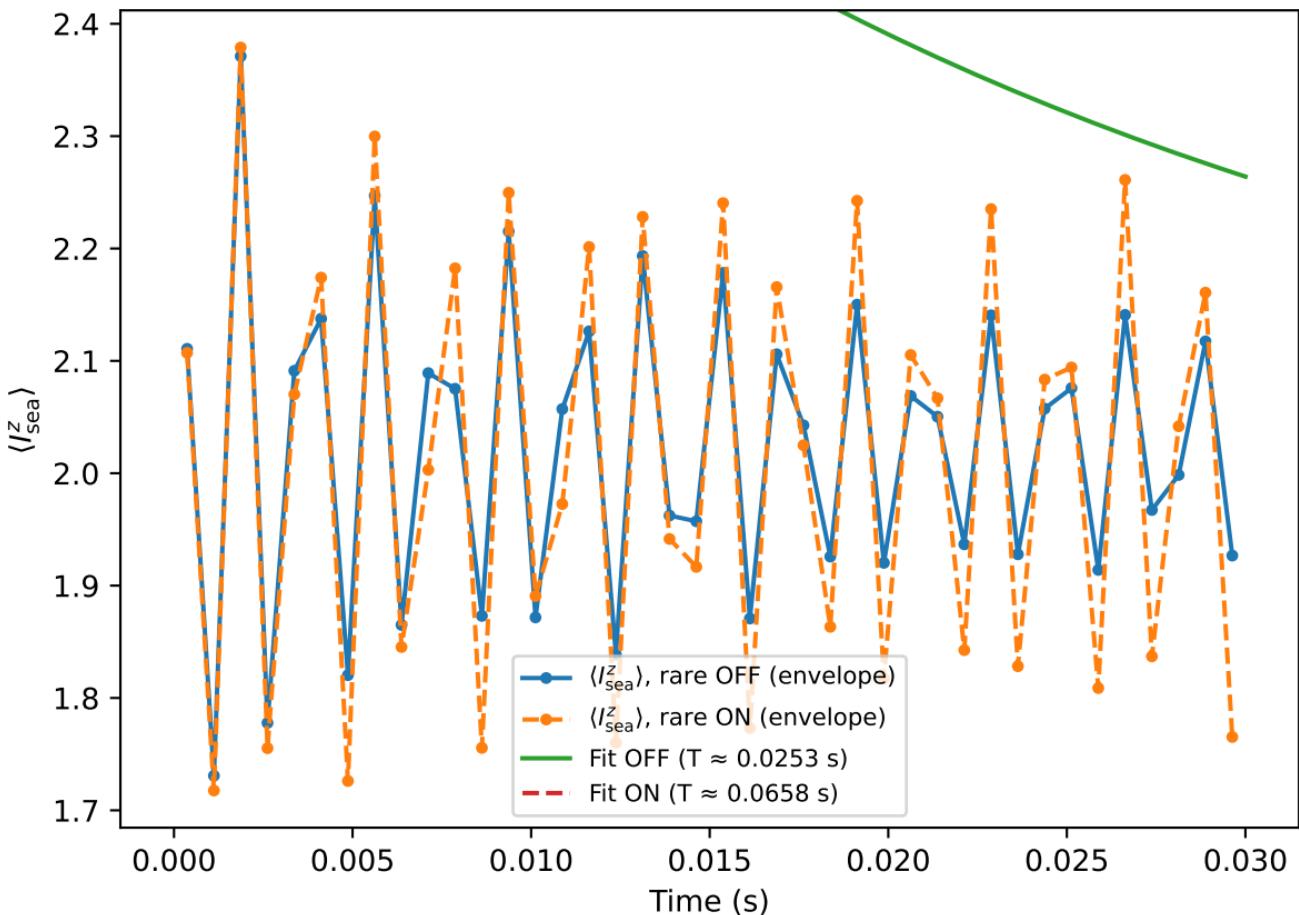
$\delta_A = -888.9$ Hz (rare drive OFF)



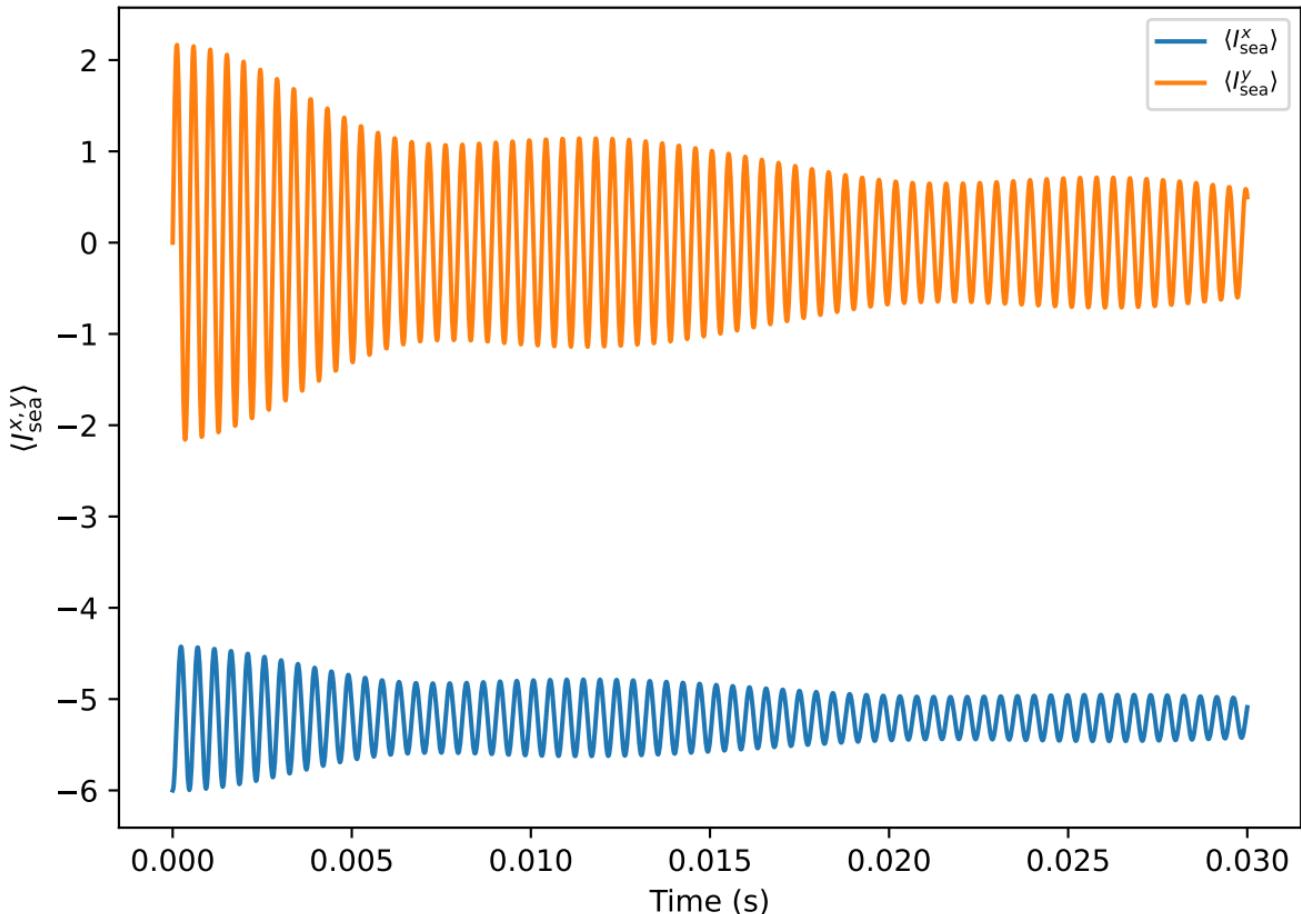
$\delta_A = -777.8$ Hz



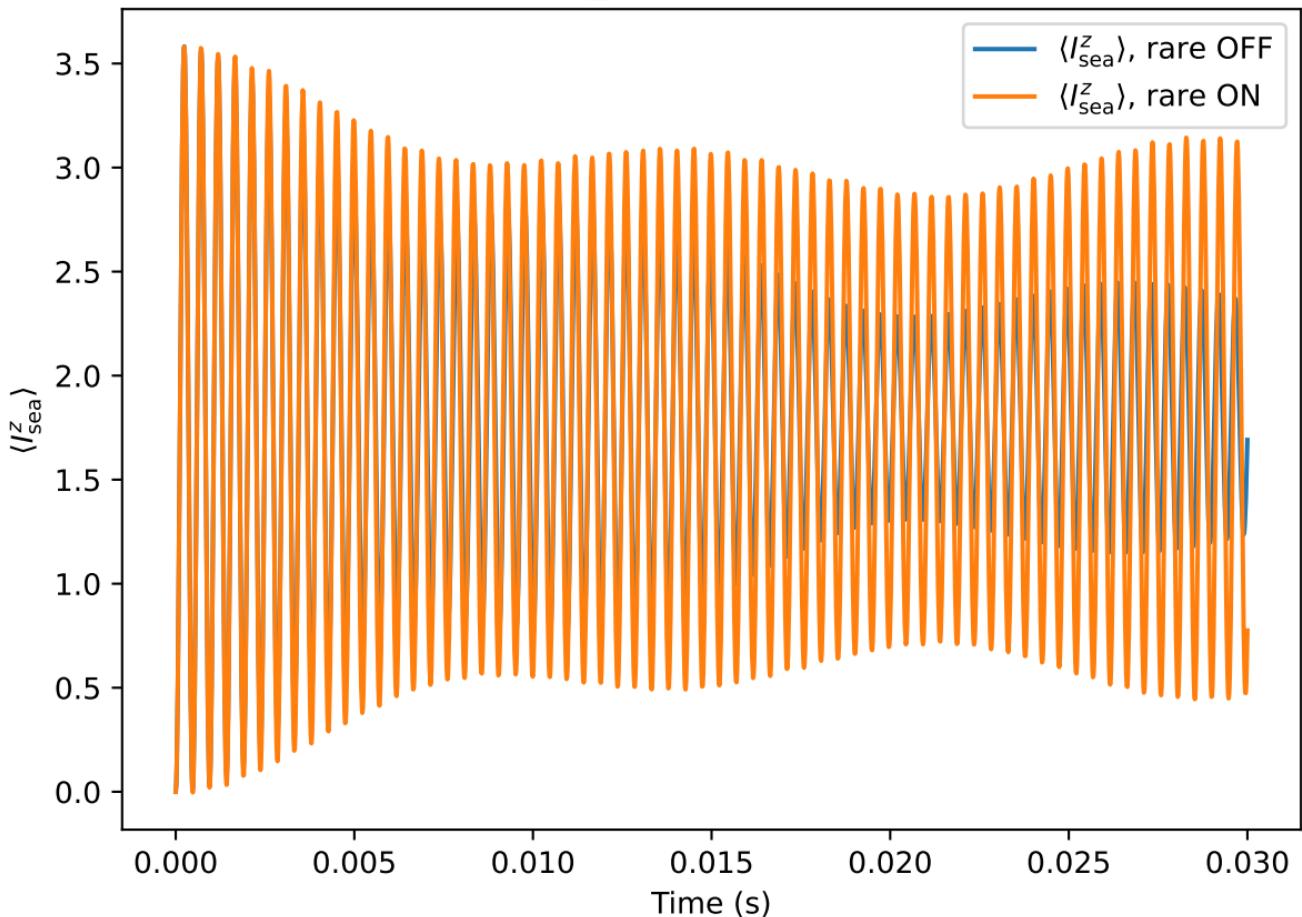
$\delta_A = -777.8$ Hz (pseudo T_1 envelope)

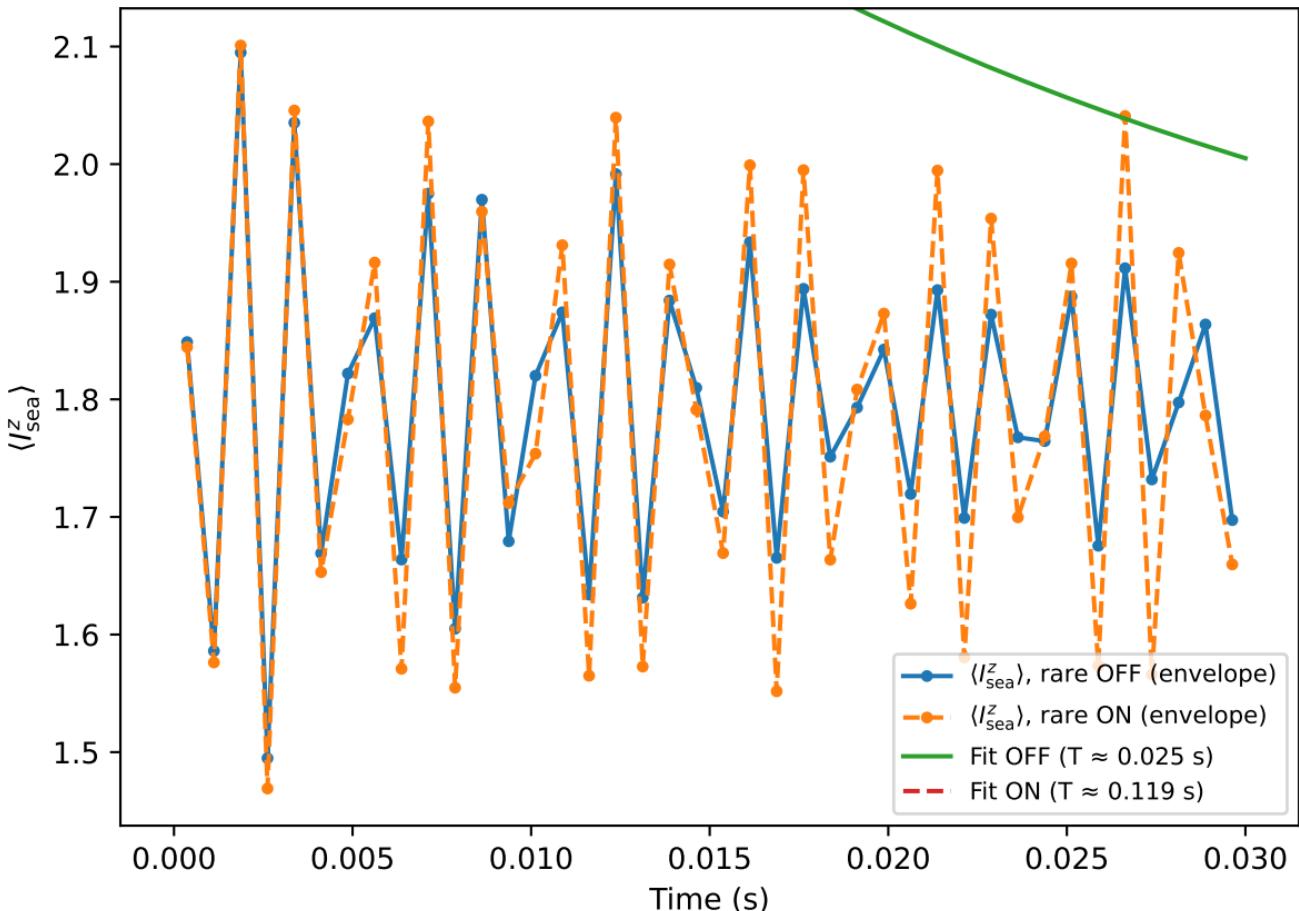


$\delta_A = -777.8$ Hz (rare drive OFF)

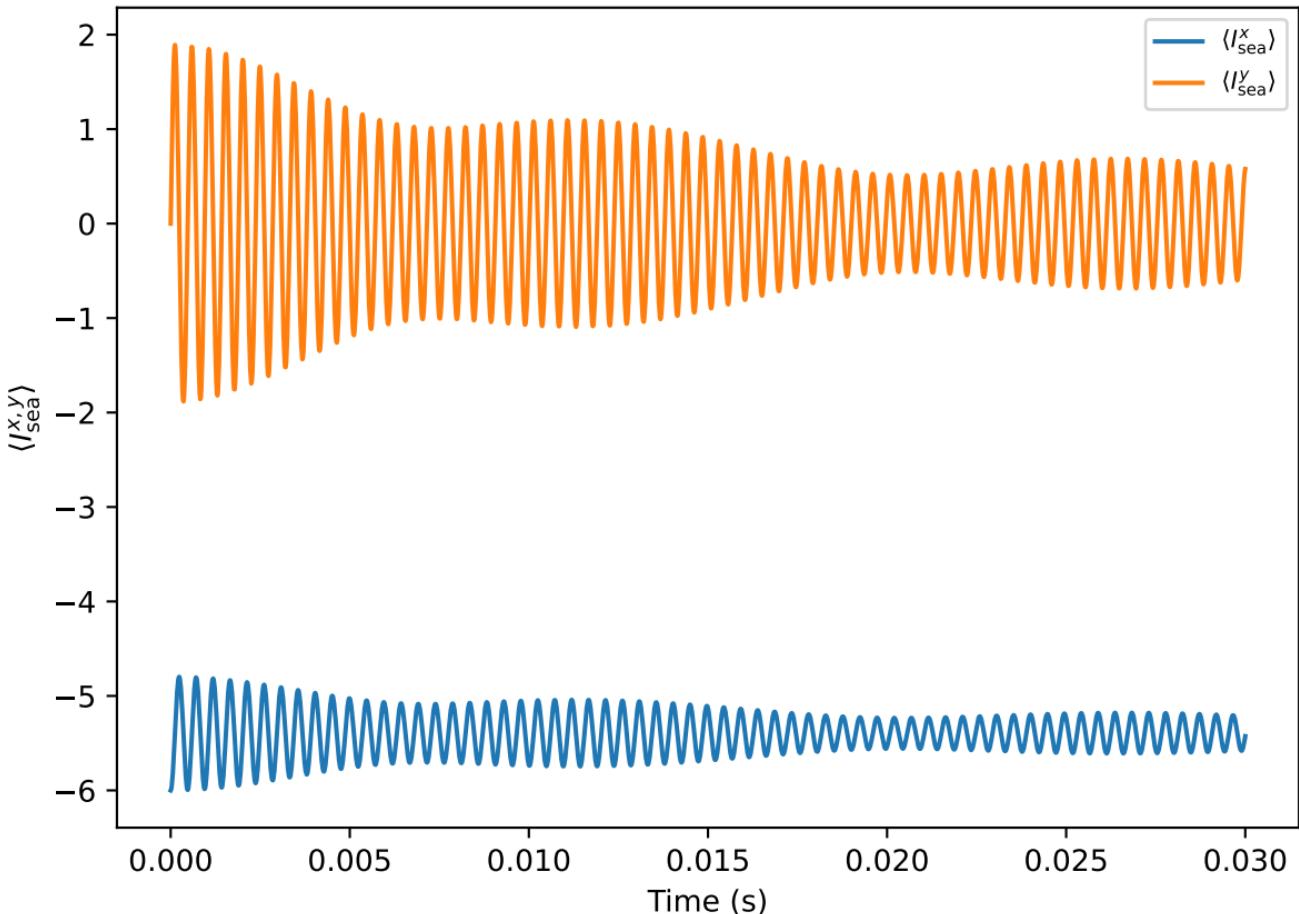


$\delta_A = -666.7 \text{ Hz}$

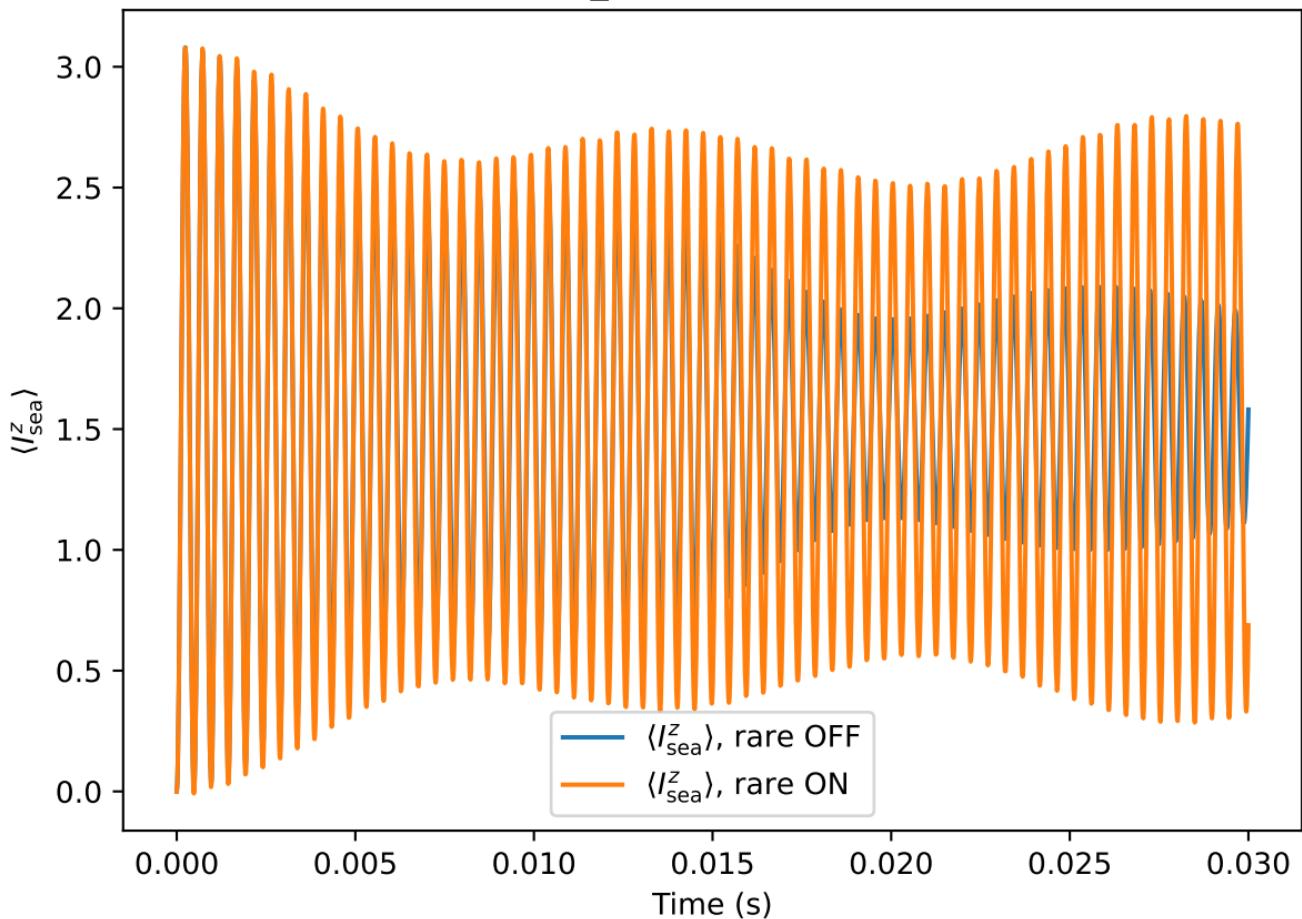


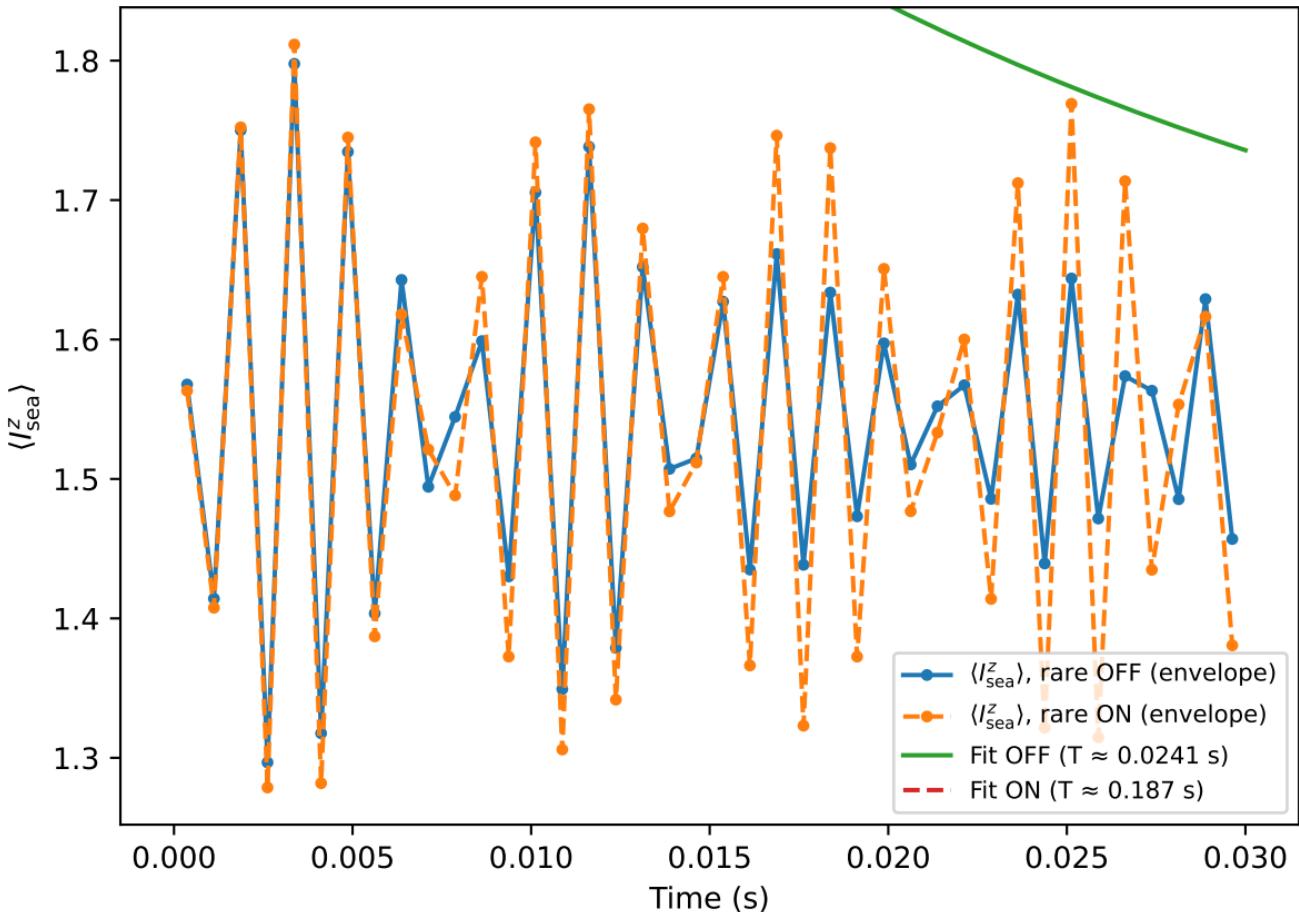
$\delta_A = -666.7 \text{ Hz}$ (pseudo T_1 envelope)

$\delta_A = -666.7$ Hz (rare drive OFF)

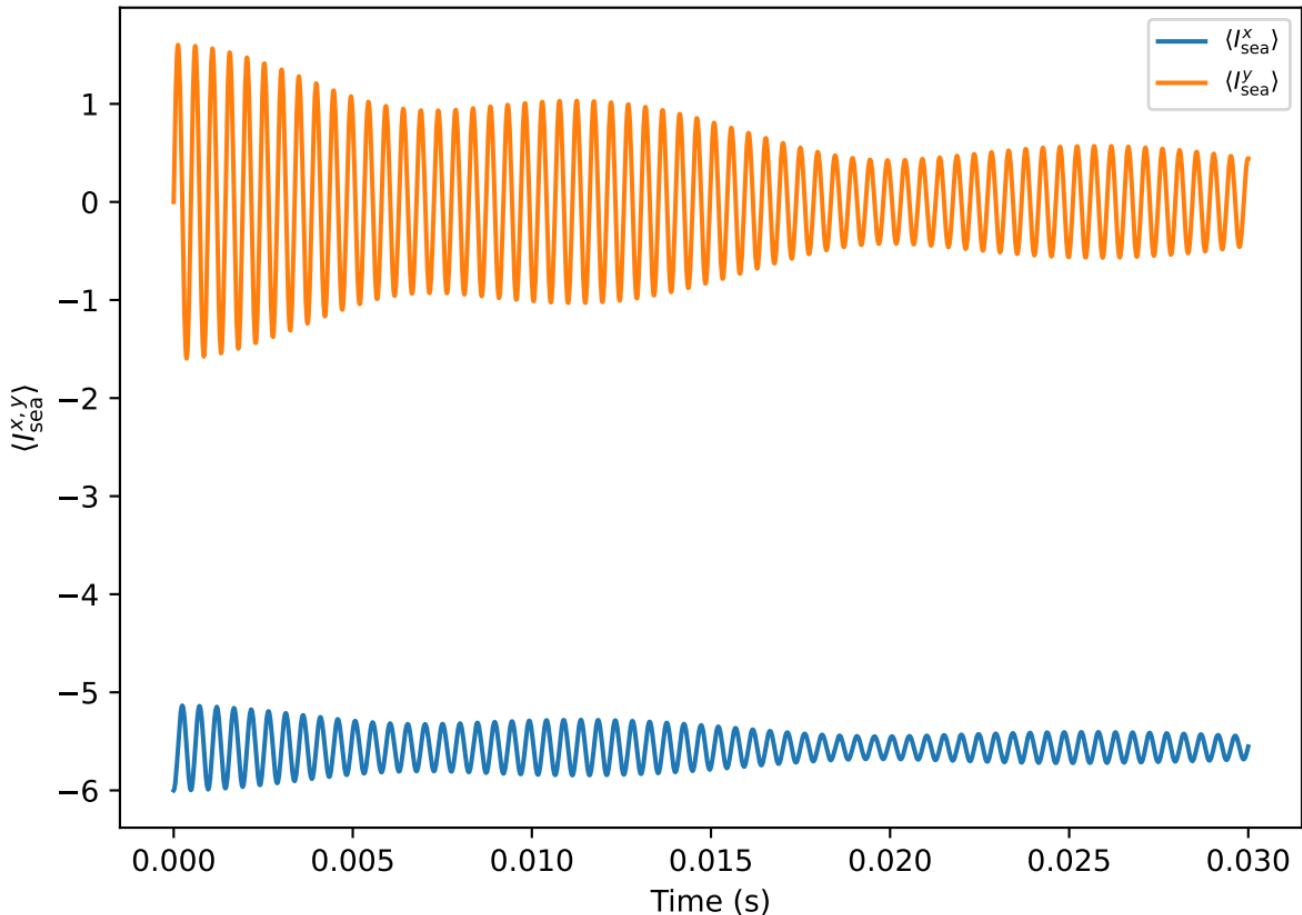


$$\delta_A = -555.6 \text{ Hz}$$

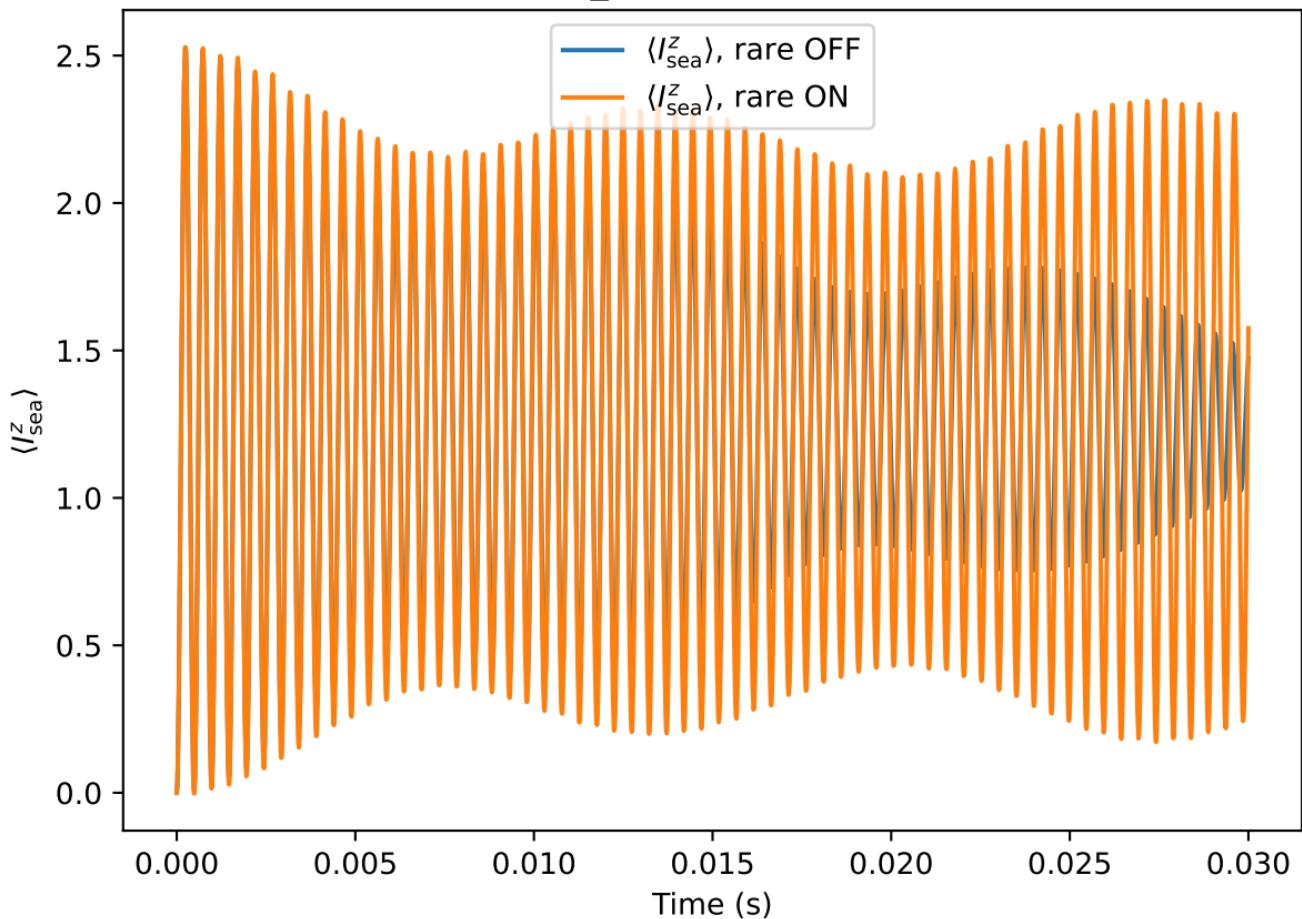


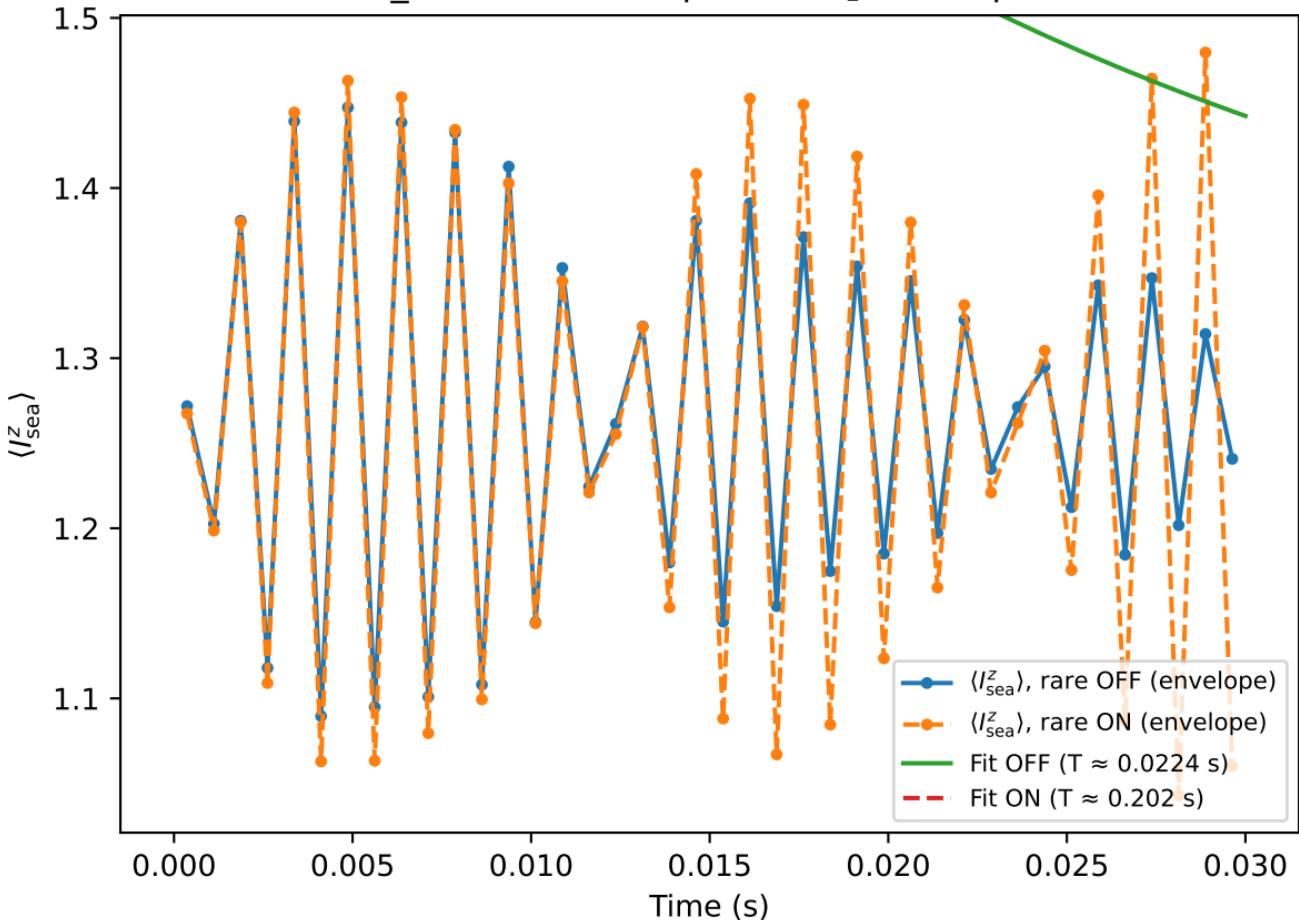
$\delta_A = -555.6 \text{ Hz}$ (pseudo T_1 envelope)

$\delta_A = -555.6$ Hz (rare drive OFF)

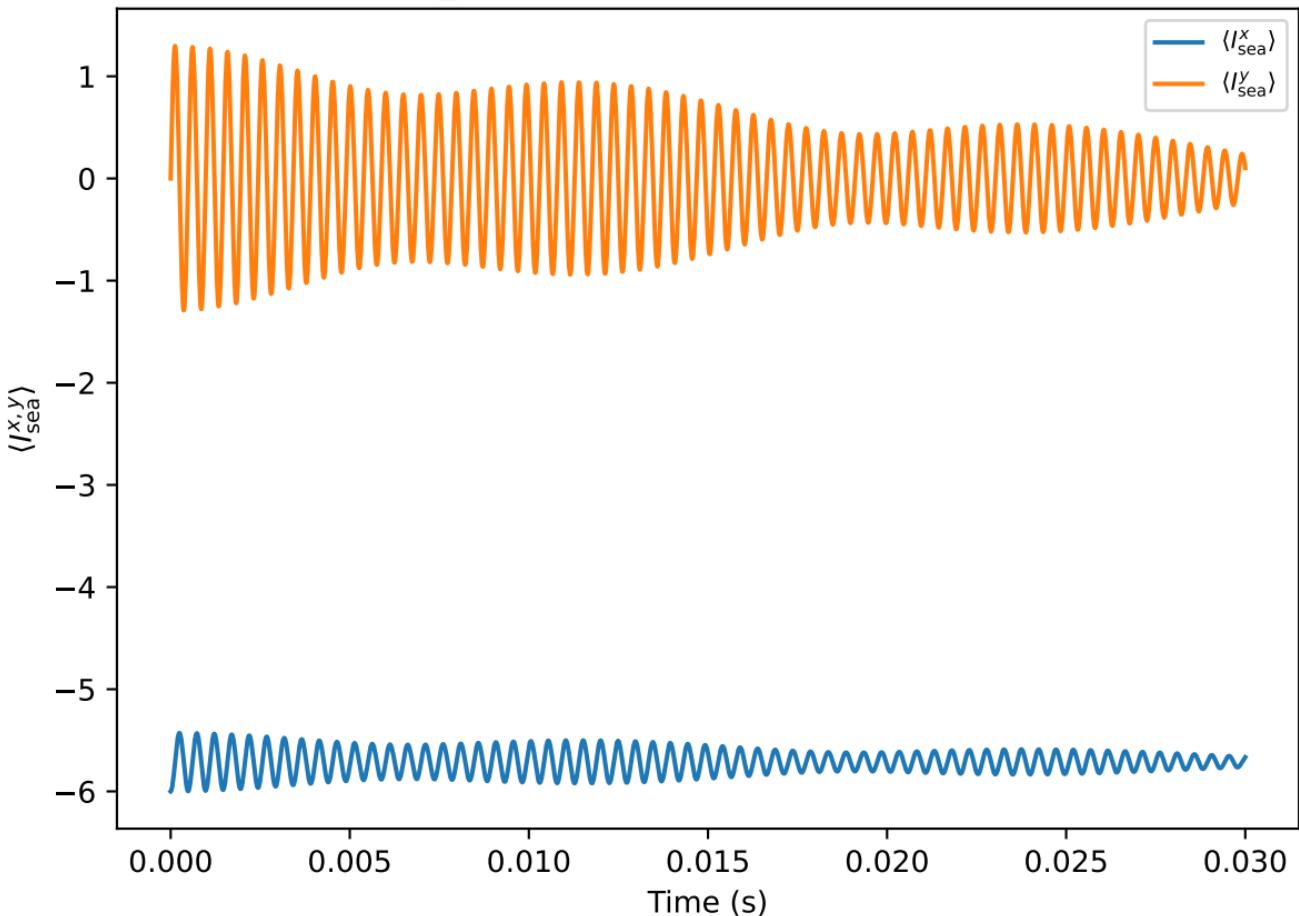


$$\delta_A = -444.4 \text{ Hz}$$

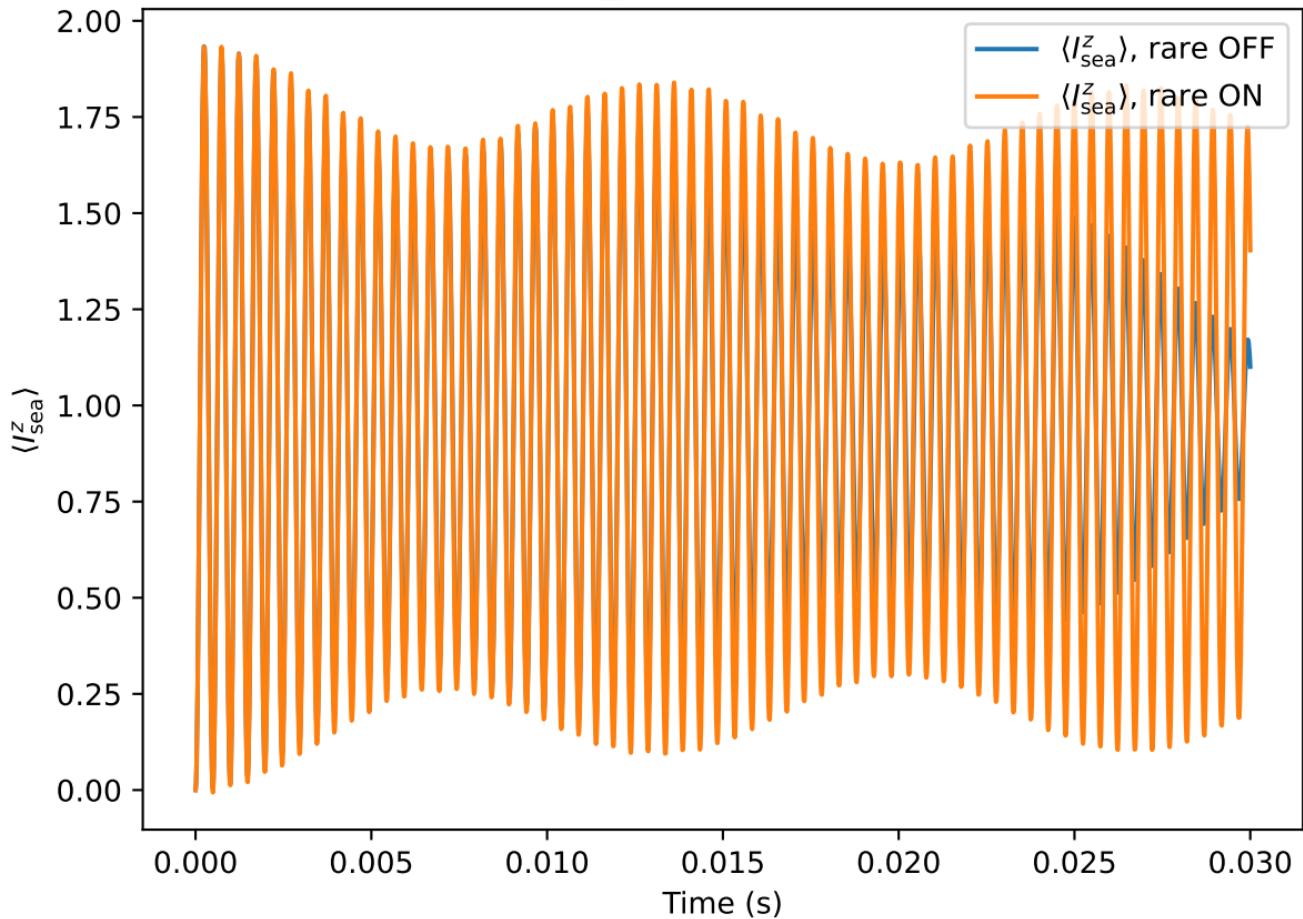


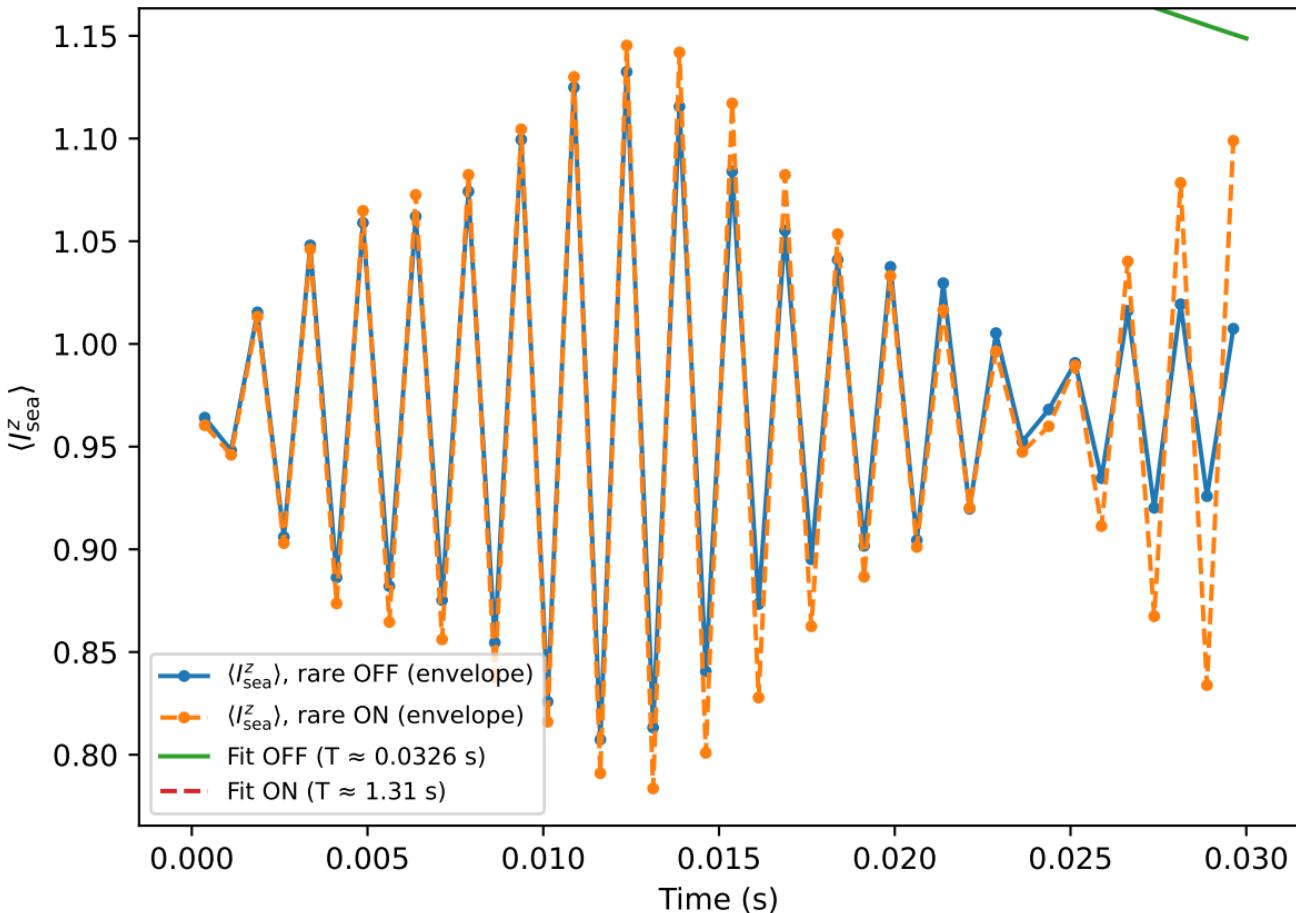
$\delta_A = -444.4 \text{ Hz}$ (pseudo T_1 envelope)

$\delta_A = -444.4$ Hz (rare drive OFF)

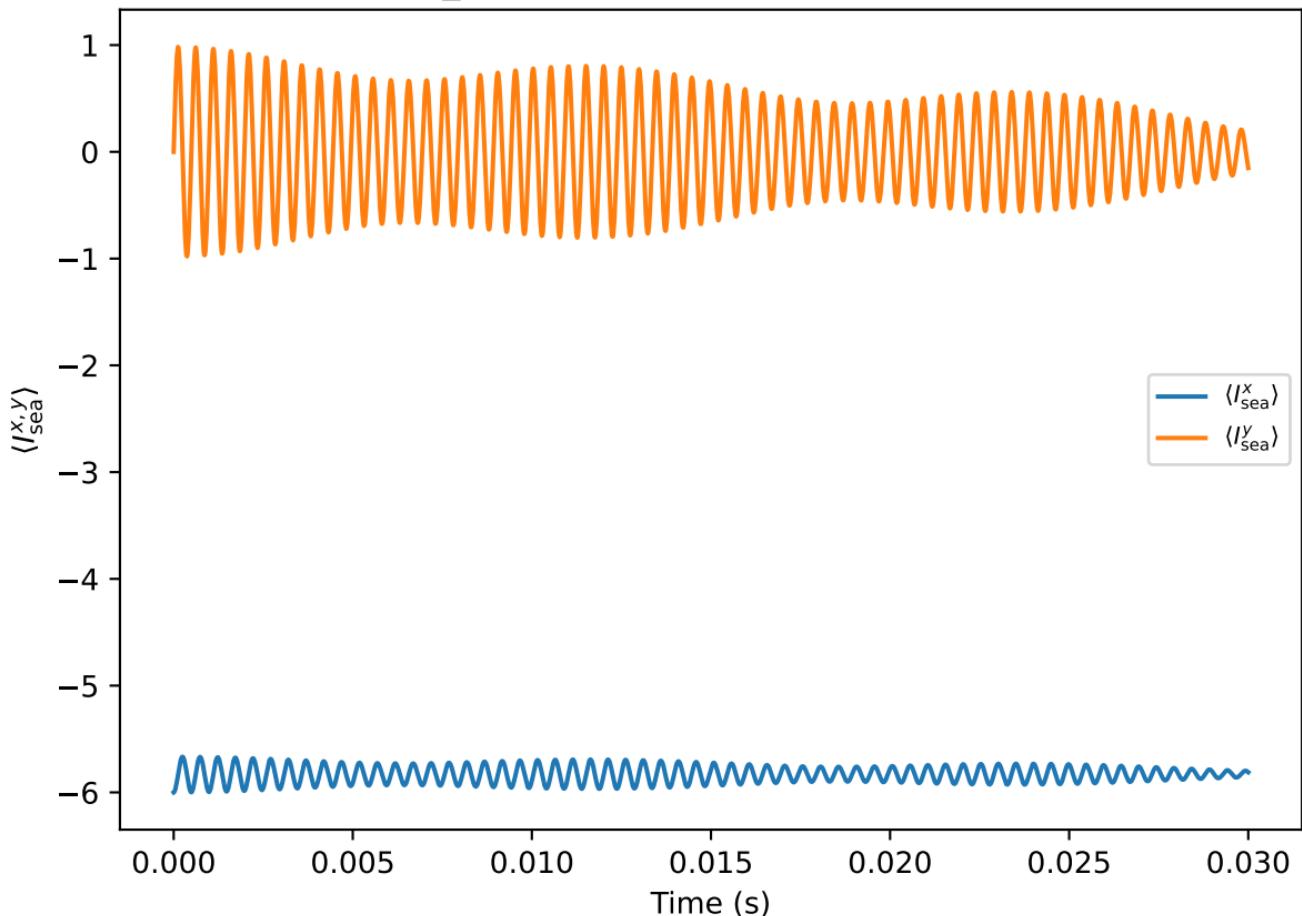


$\delta_A = -333.3$ Hz

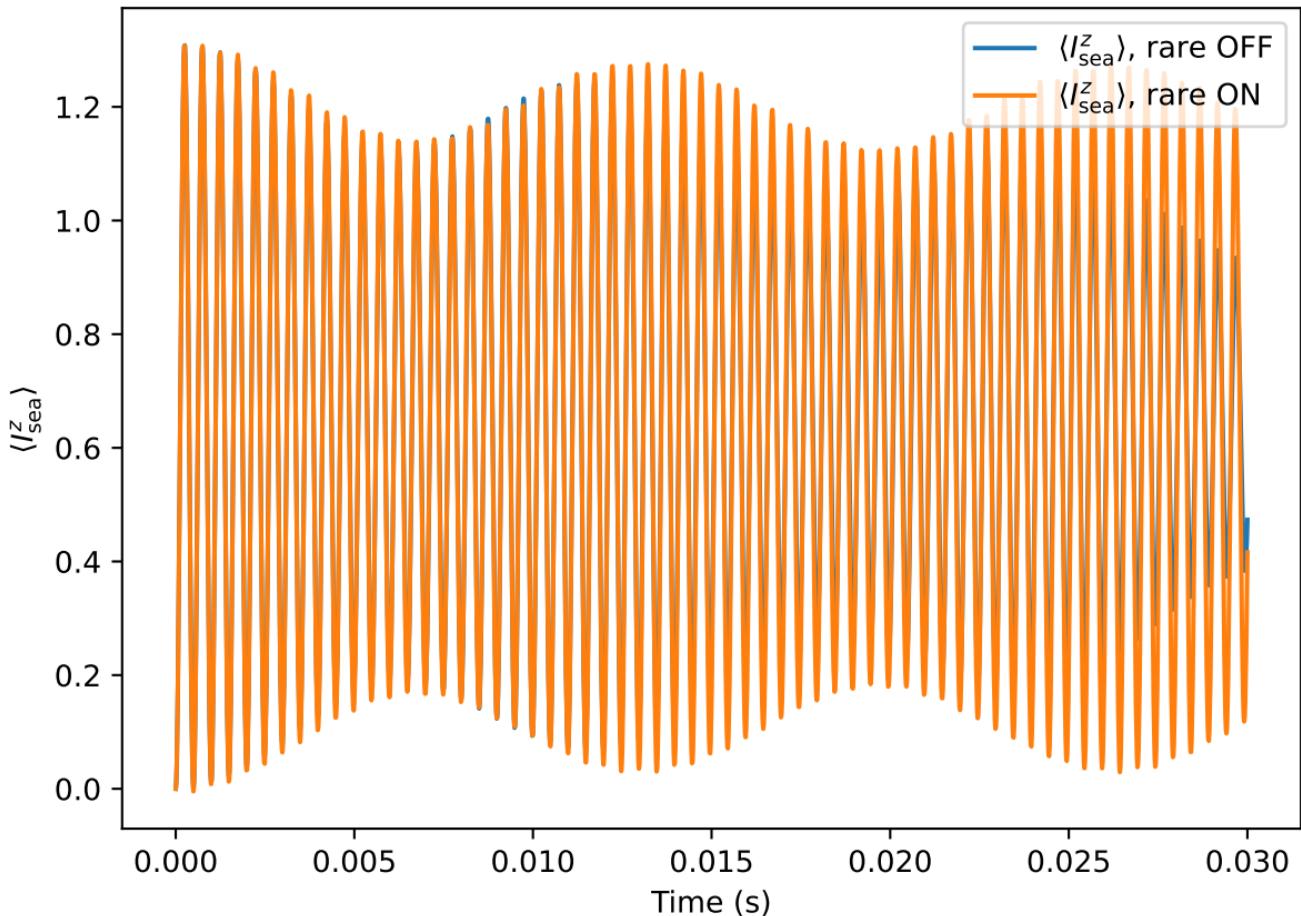


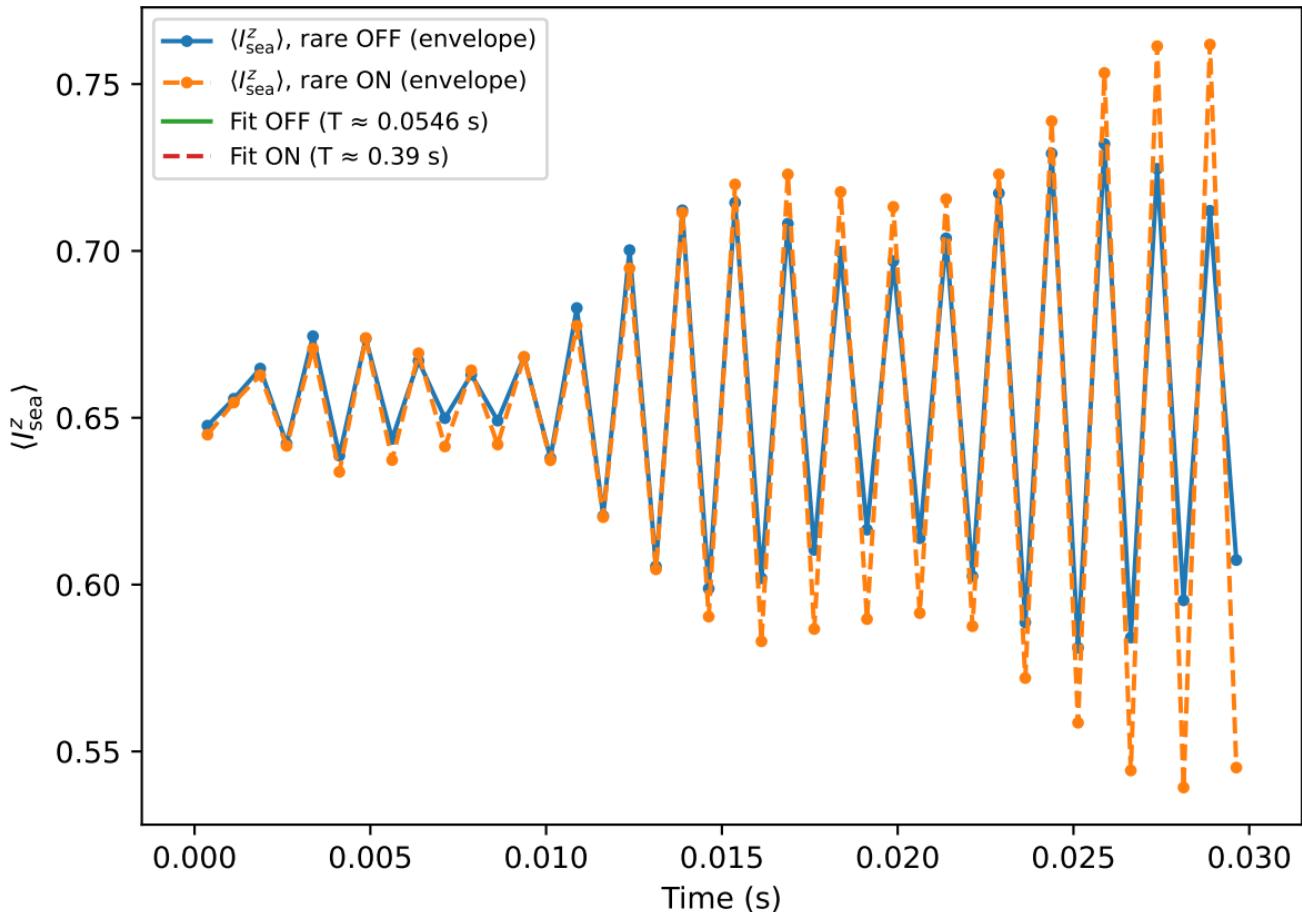
$\delta_A = -333.3 \text{ Hz}$ (pseudo T_1 envelope)

$\delta_A = -333.3$ Hz (rare drive OFF)

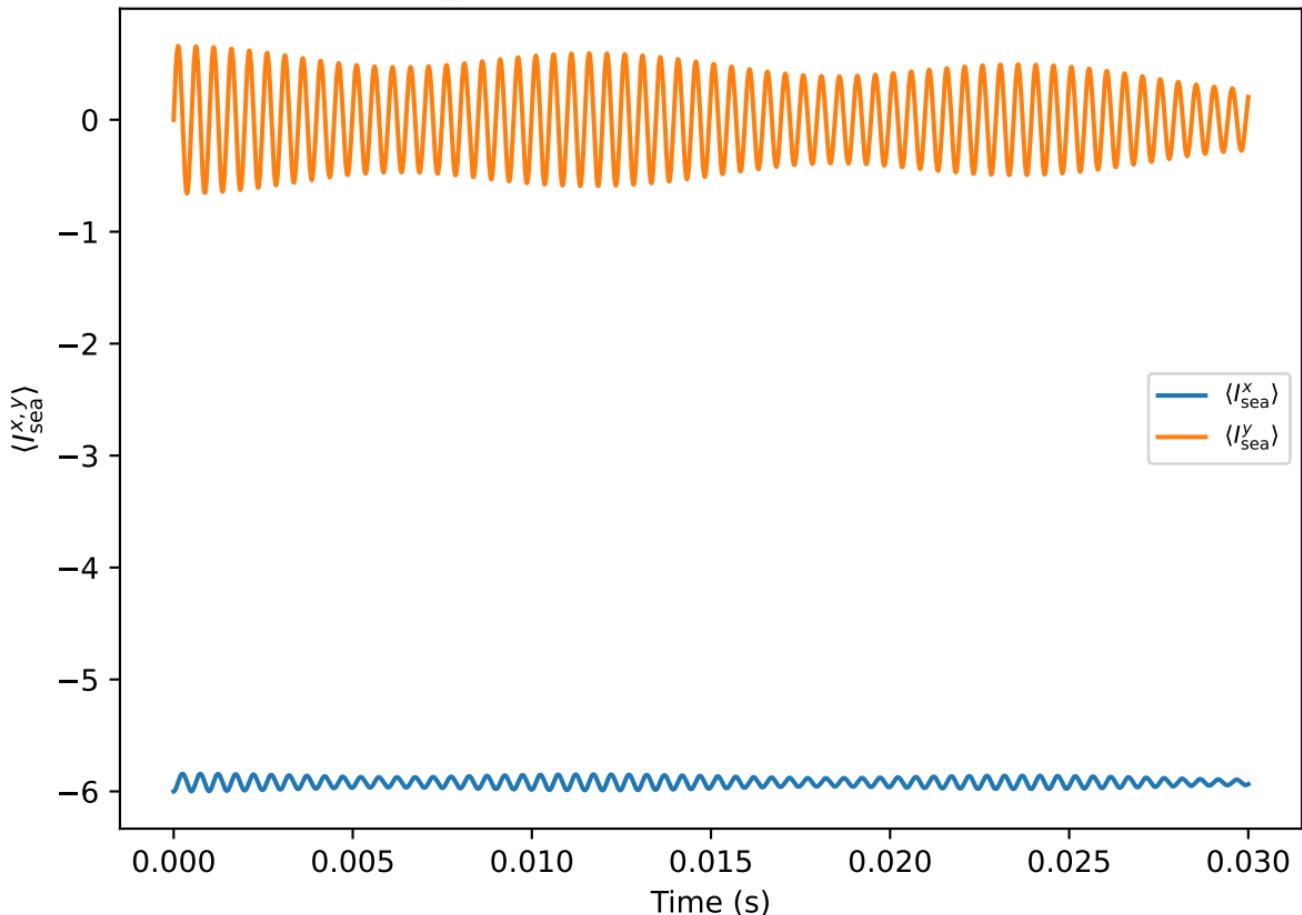


$\delta_A = -222.2 \text{ Hz}$

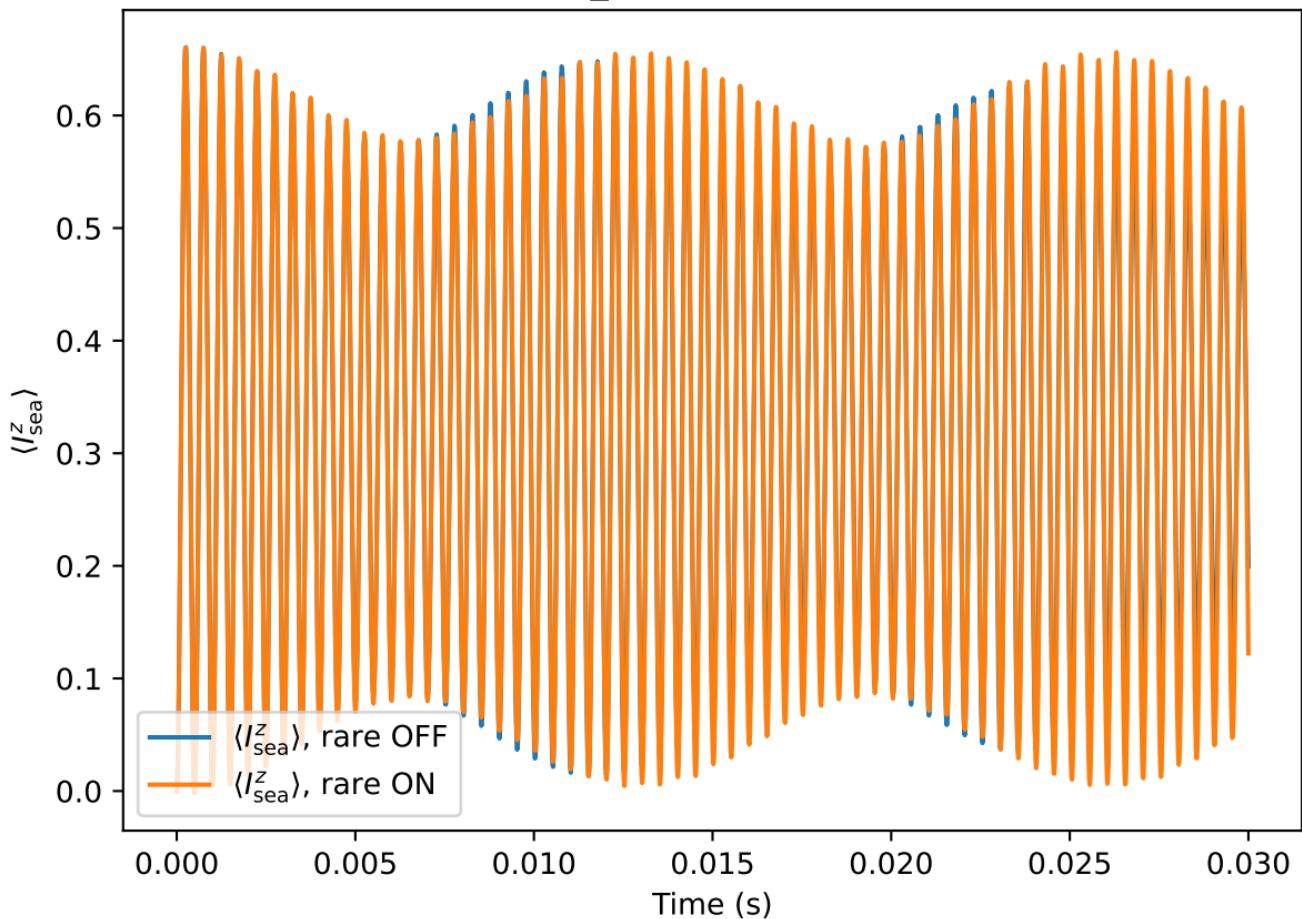


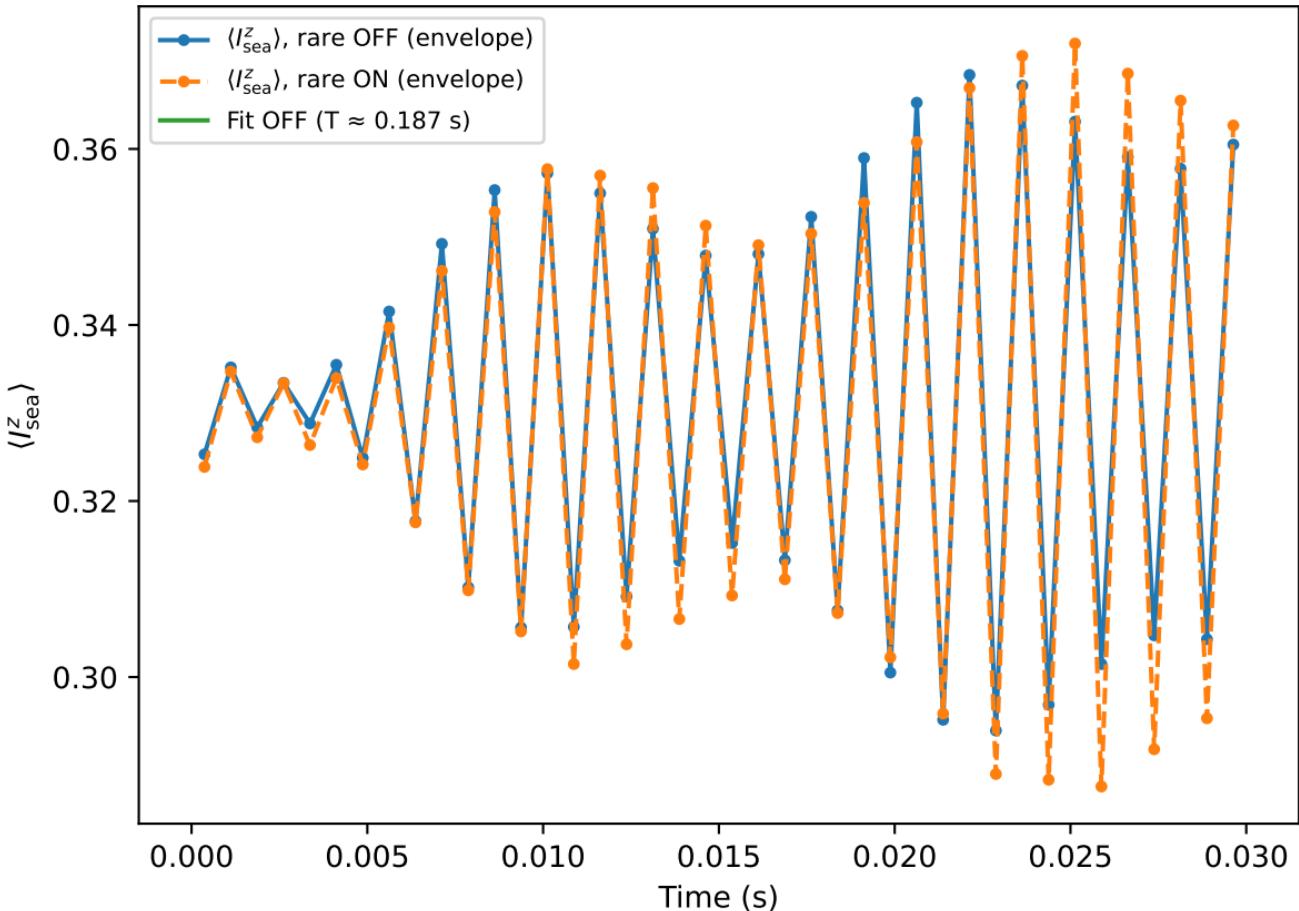
$\delta_A = -222.2 \text{ Hz}$ (pseudo T_1 envelope)

$\delta_A = -222.2$ Hz (rare drive OFF)

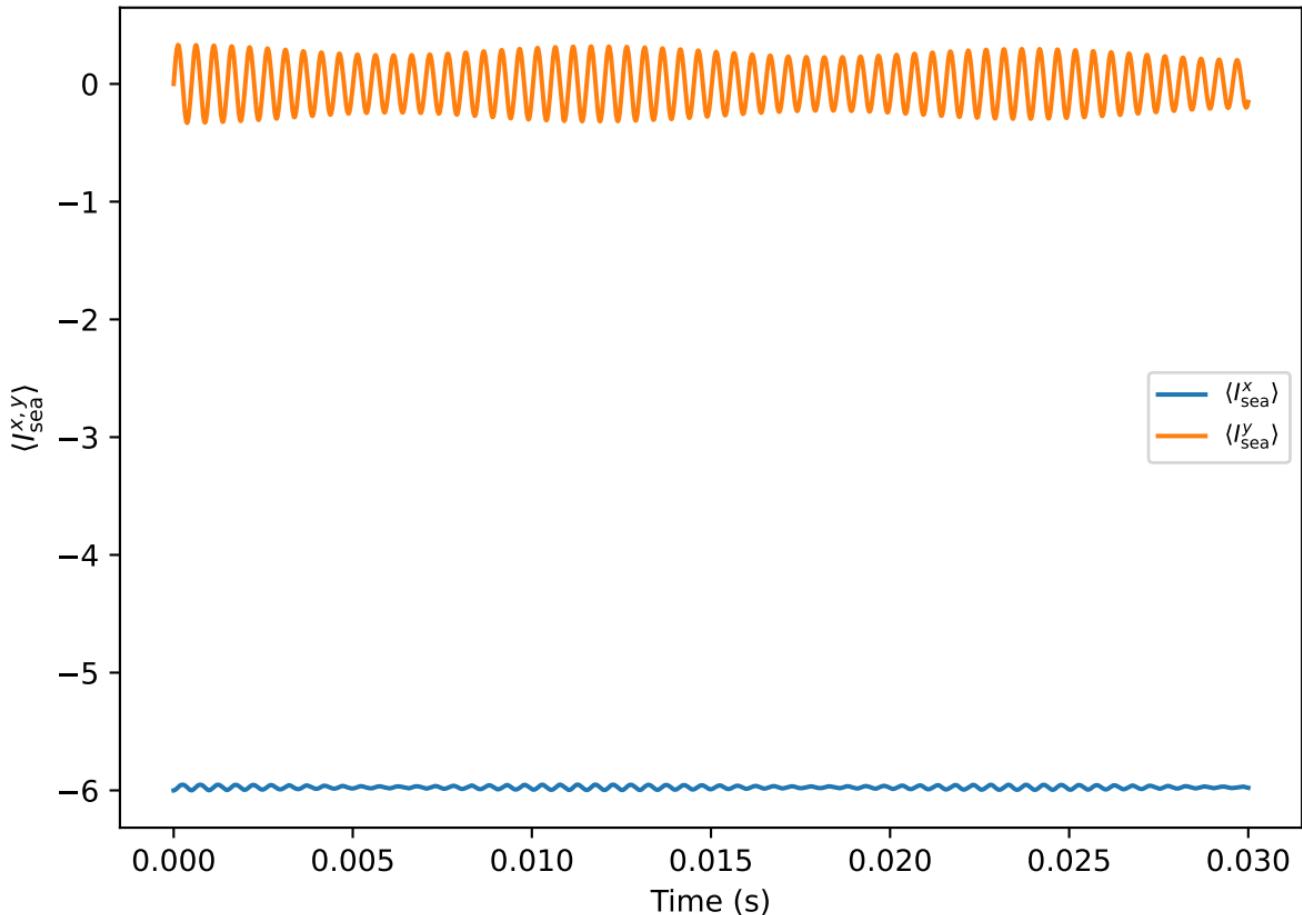


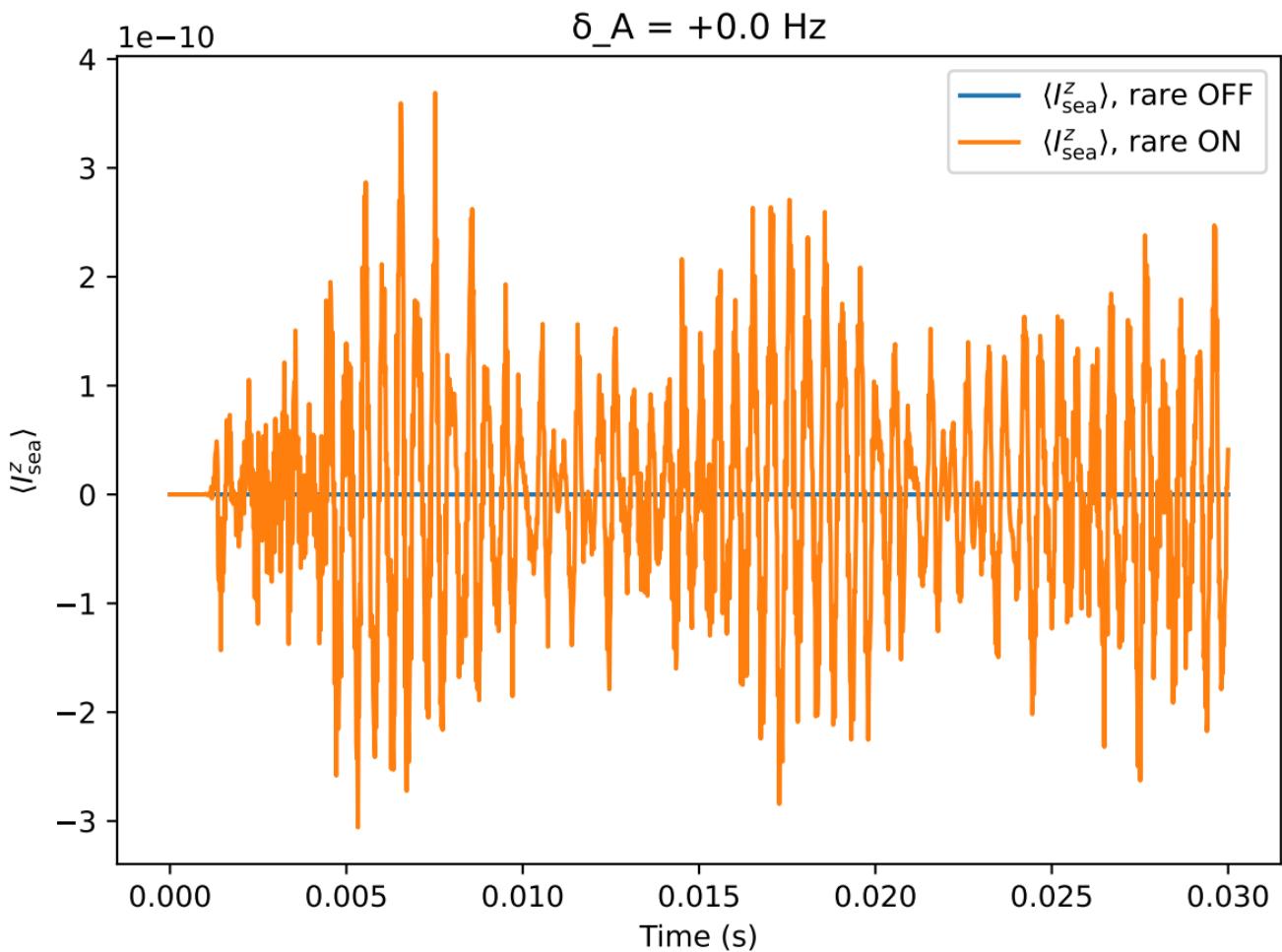
$$\delta_A = -111.1 \text{ Hz}$$

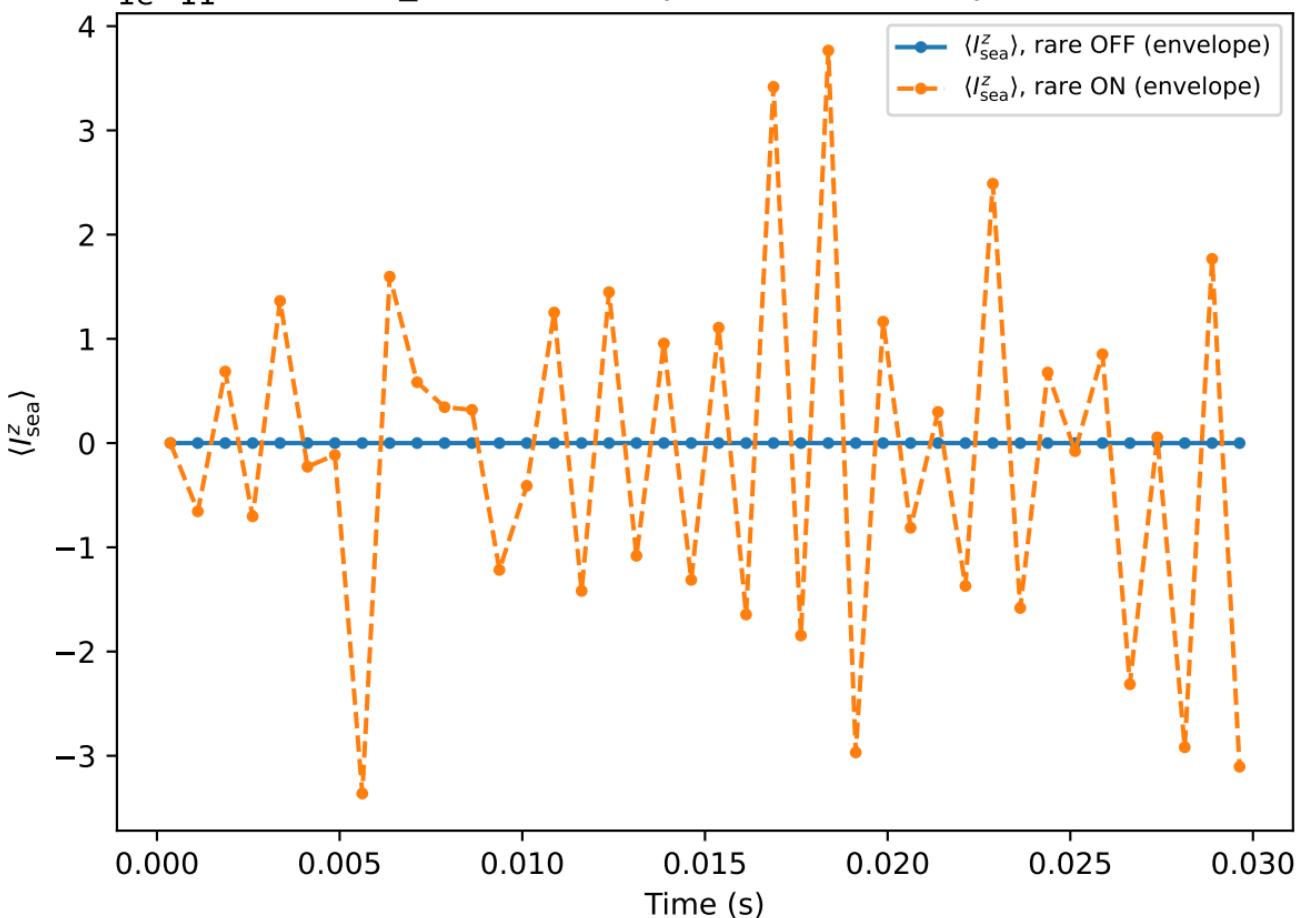


$\delta_A = -111.1 \text{ Hz}$ (pseudo T_1 envelope)

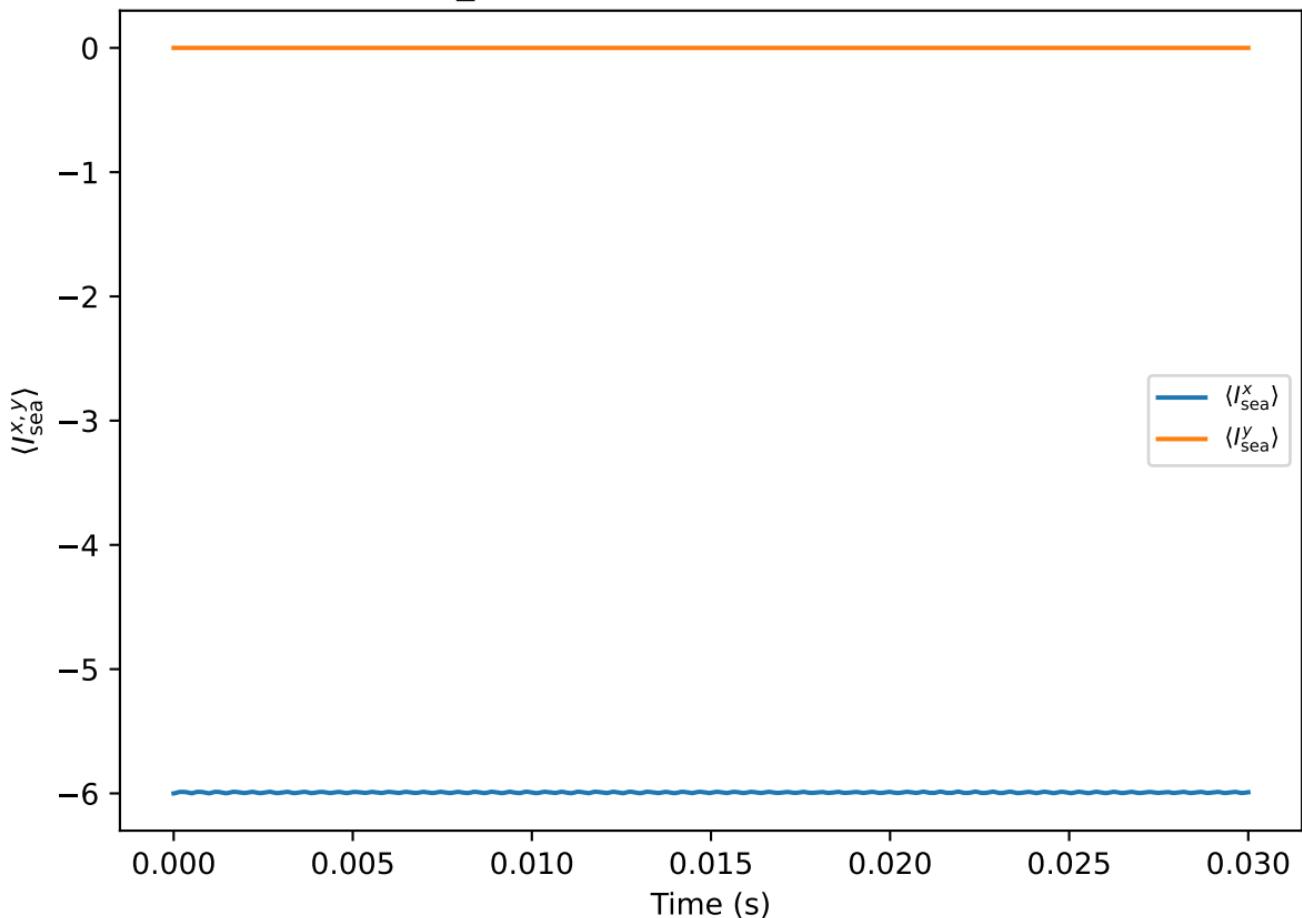
$\delta_A = -111.1$ Hz (rare drive OFF)





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

$\delta_A = +0.0$ 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
-1000.0	0.0156	0.0546
-888.9	0.0216	0.0557
-777.8	0.0253	0.0658
-666.7	0.025	0.119
-555.6	0.0241	0.187
-444.4	0.0224	0.202
-333.3	0.0326	1.31
-222.2	0.0546	0.39
-111.1	0.187	NA
+0.0	NA	NA