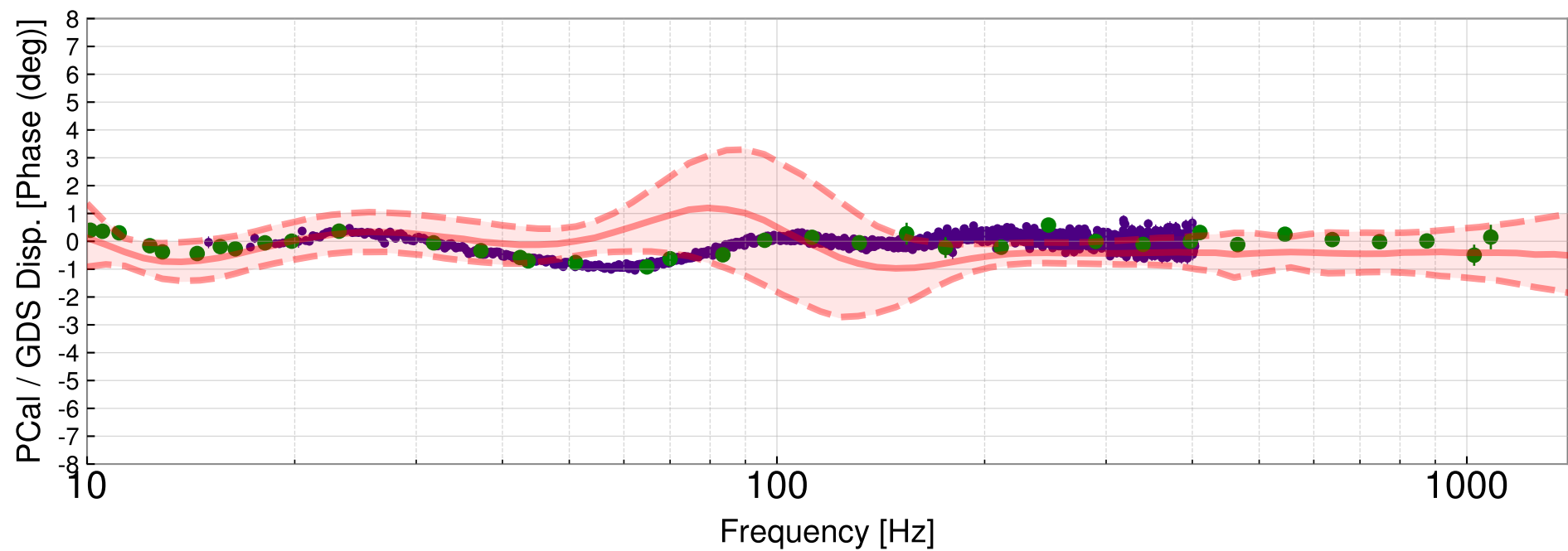
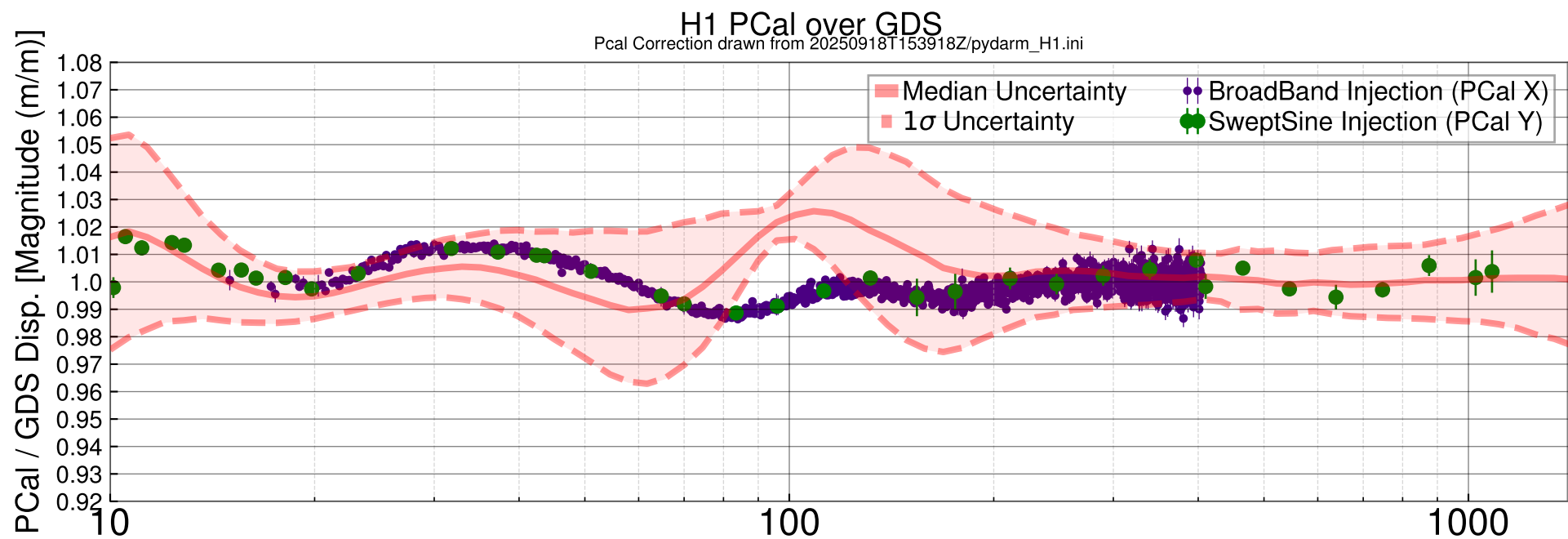
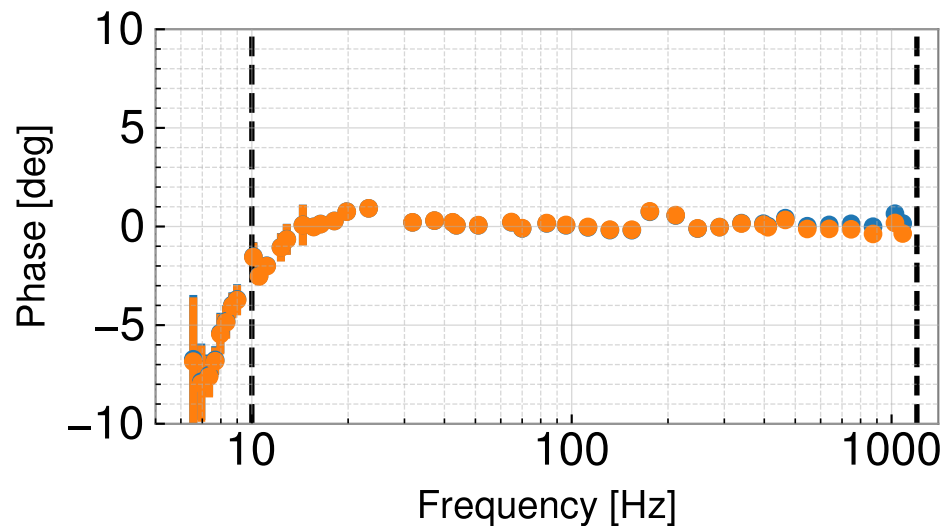
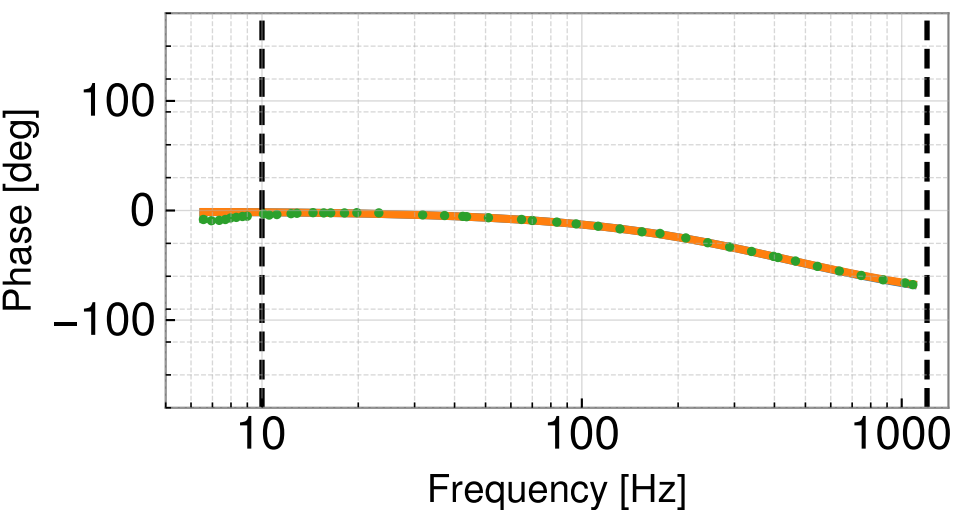
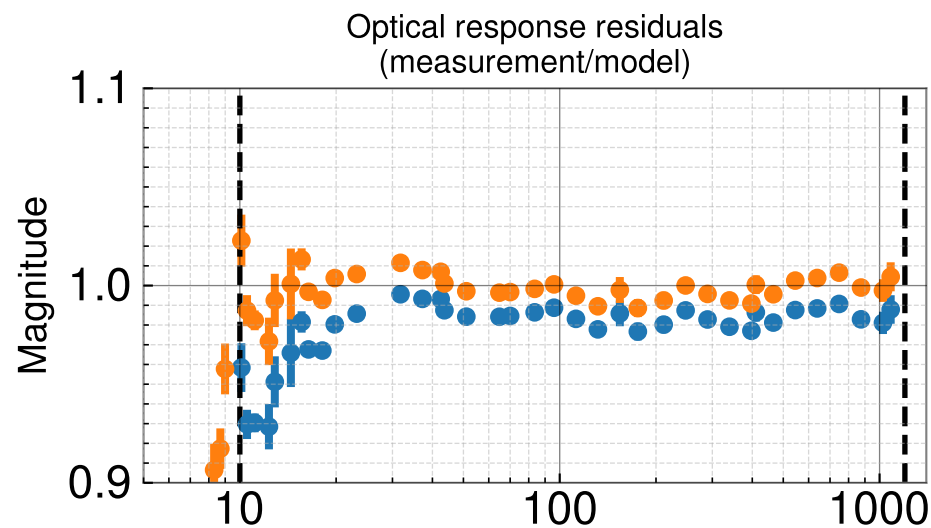
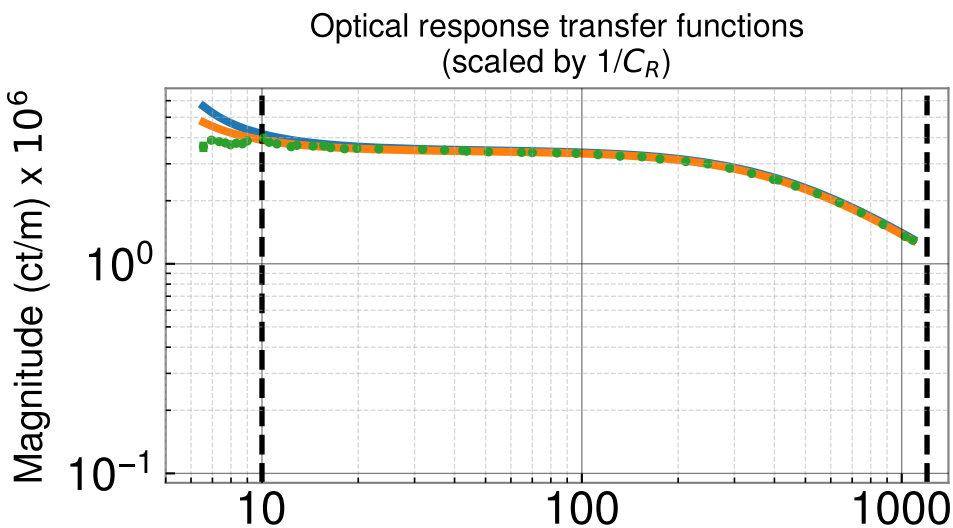
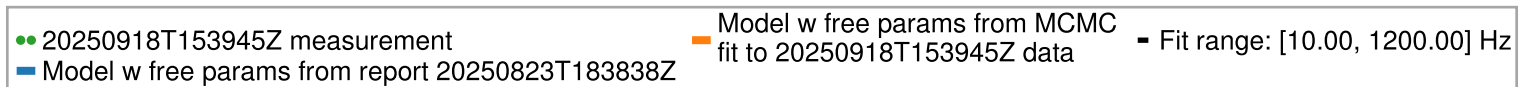




H1 sensing model MCMC summary

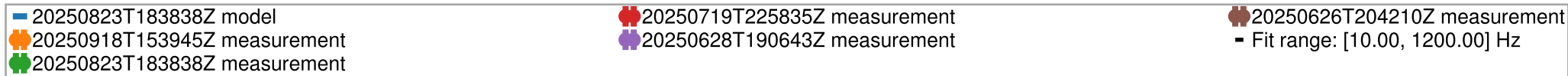
All fixed parameters drawn from 20250918T153918Z/pydarm_H1.ini



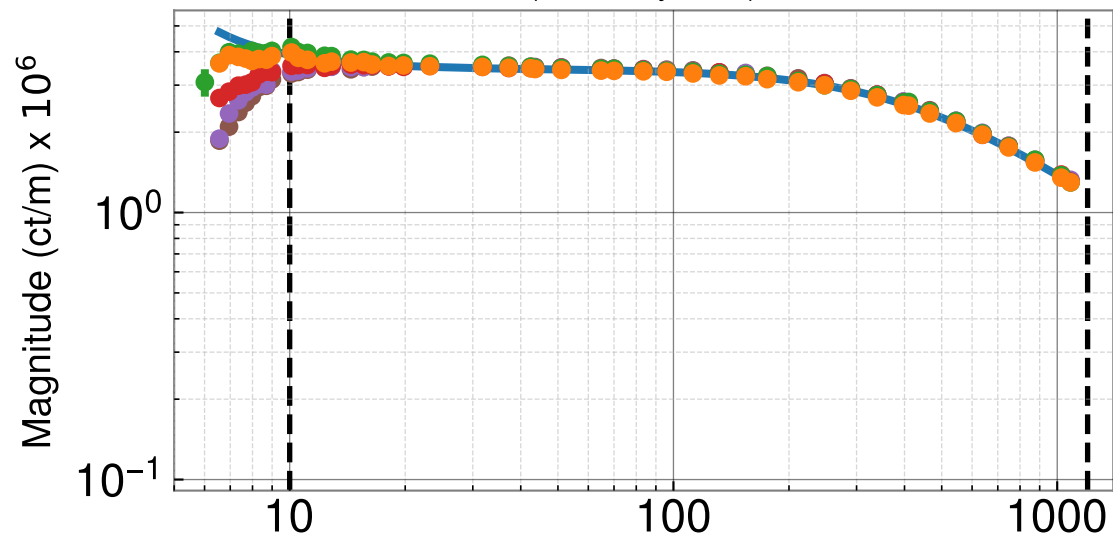
Parameter	(value +/-) value	+	-
Optical gain, H_c (ct/m)	3.44e+06	1916 (0.06%)	1945 (0.06%)
Cavity_pole, f_{cc} (Hz)	438.8	0.7151 (0.16%)	0.714 (0.16%)
Detuned SRC spring frequency, f_s (Hz)	3.431	0.05141 (1.50%)	0.05207 (1.52%)
Detuned SRC spring quality factor, Q_s	84.95	10.59 (12.47%)	15.43 (18.17%)
Residual time delay, τ_c (s)	-1.638e-06	3.279e-07 (-20.02%)	3.309e-07 (-20.20%)

H1 sensing model history (last 9 measurements)

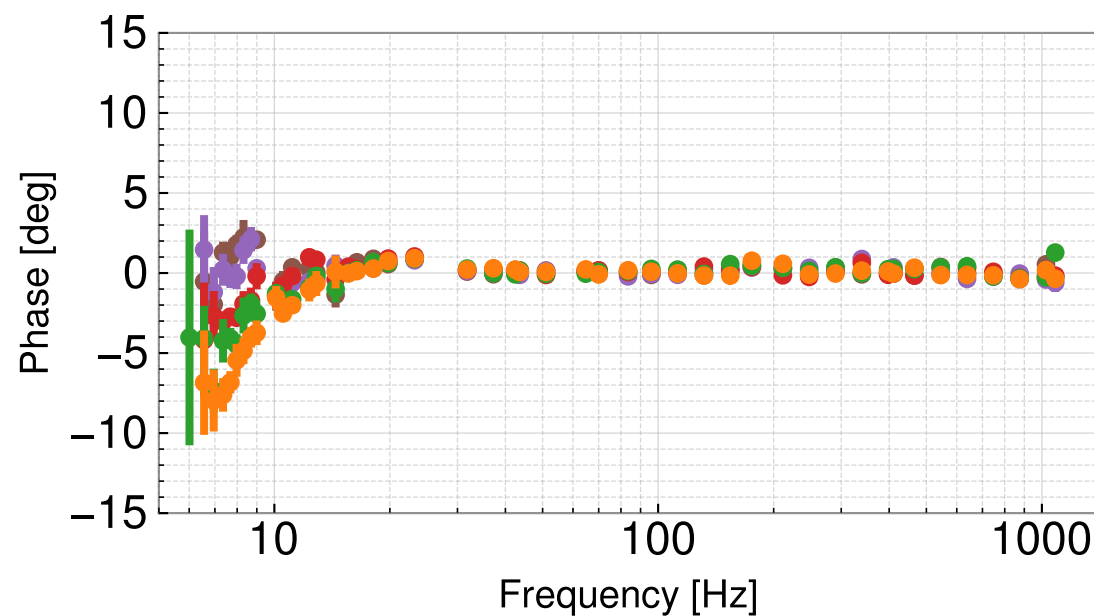
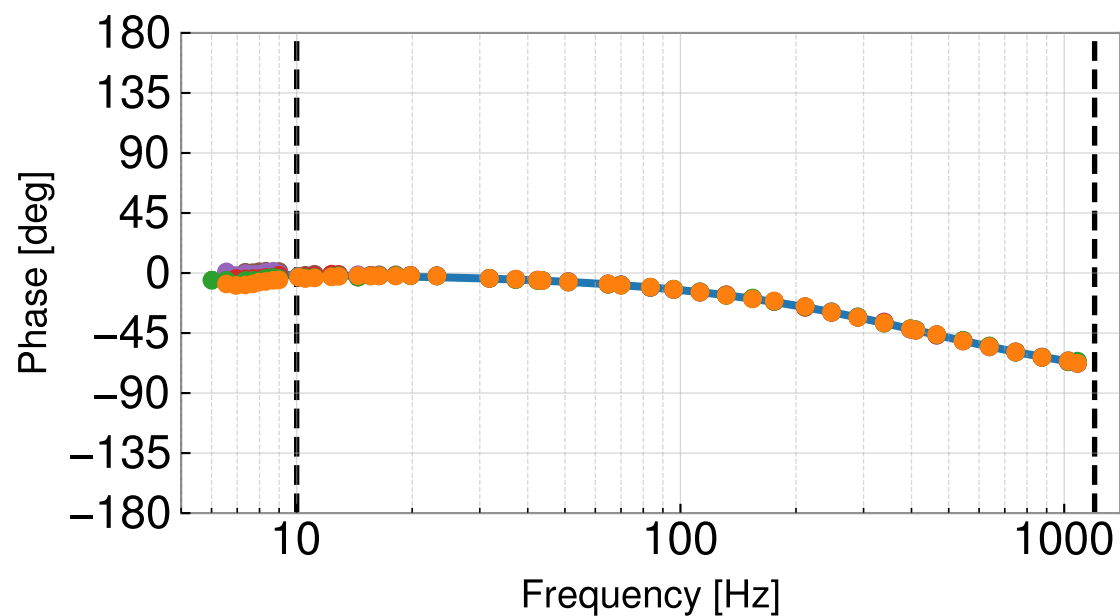
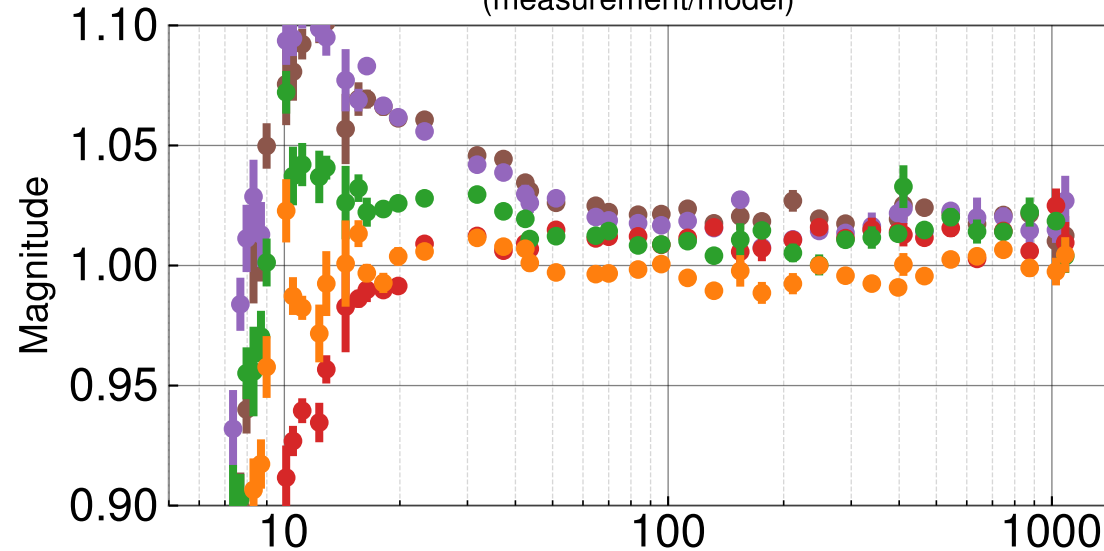
All fixed parameters drawn from 20250918T153918Z/pydarm_H1.ini



Optical response transfer functions
(scaled by $1/C_R$)

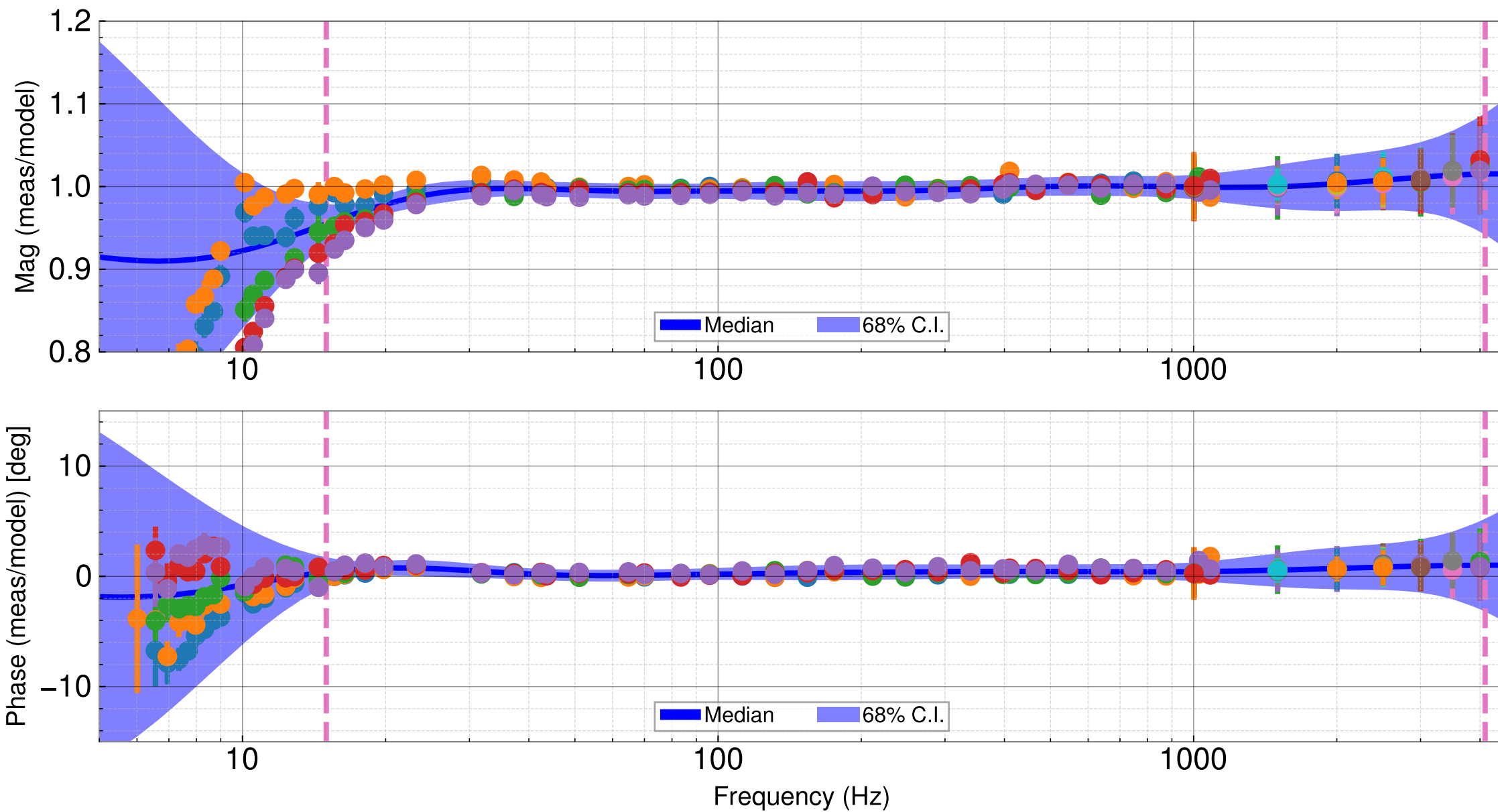


Optical response residuals
(measurement/model)



Sensing GPR

meas. 20250918T153945Z of report 20250918T153918Z
meas. 20250719T225903Z of report 20250719T225835Z
meas. 20250626T204238Z of report 20250626T204210Z
meas. 20250823T183906Z of report 20250823T183838Z
meas. 20250628T190710Z of report 20250628T190643Z

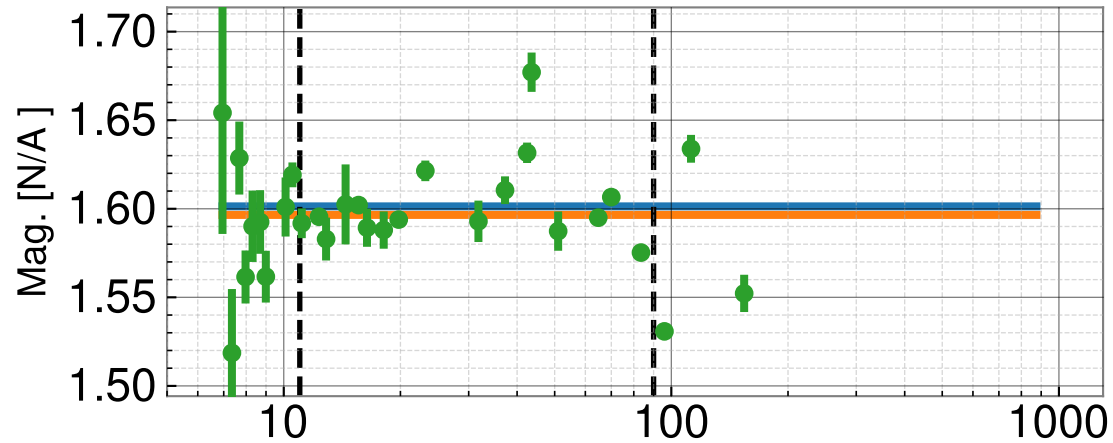


H1SUSEX L1 actuation model MCMC summary

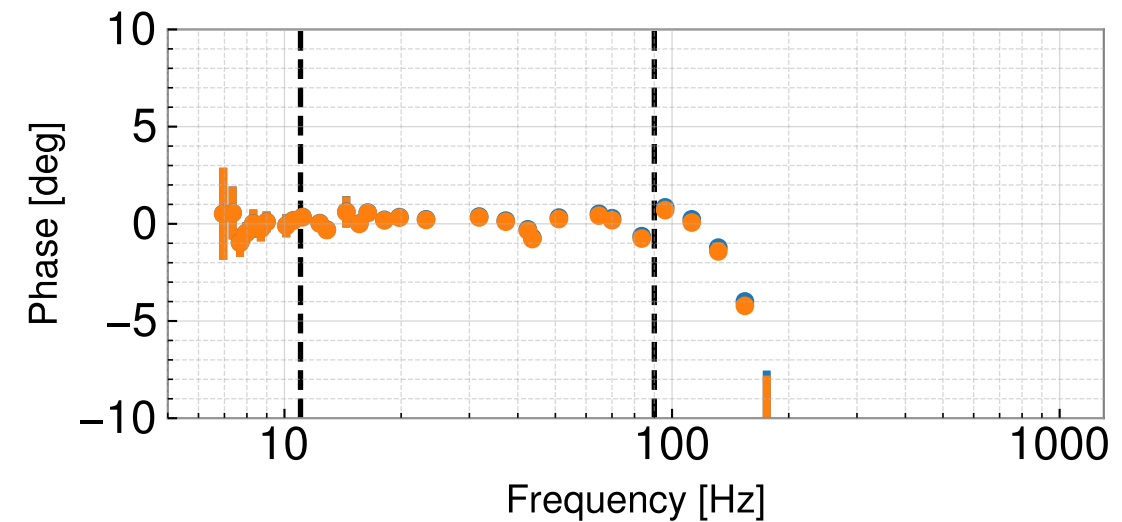
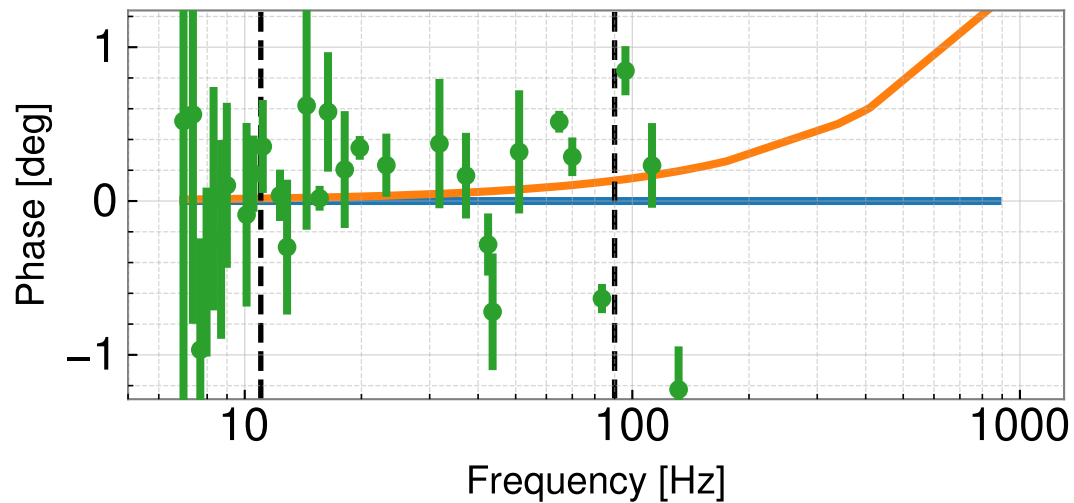
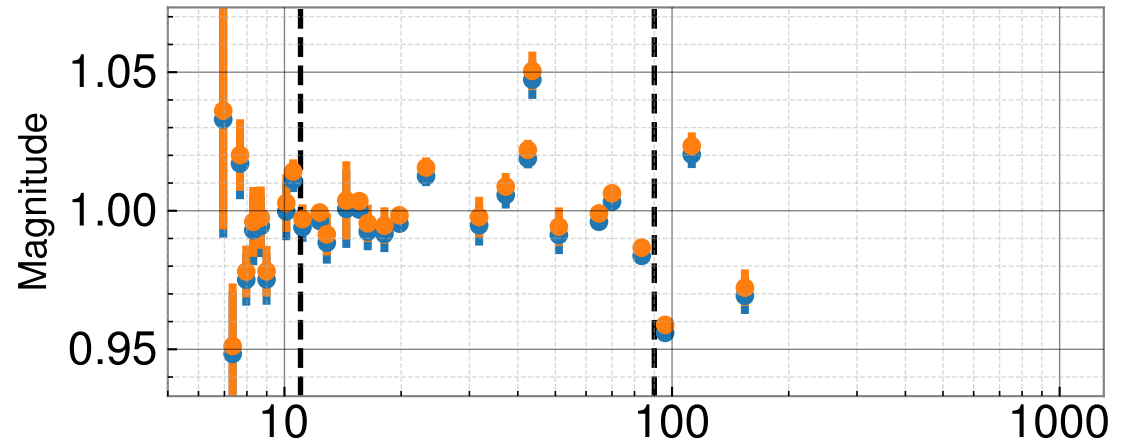
All fixed parameters drawn from 20250918T153918Z/pydarm_H1.ini

— Model w free params from report 20250823T183838Z
— Model w free params from
— MCMC fit to 20250918T153946Z data
■ 20250918T153946Z measurement
— Fit range 11.0 to 90.0 Hz

Actuation strength transfer functions
(scaled by H_{ref})

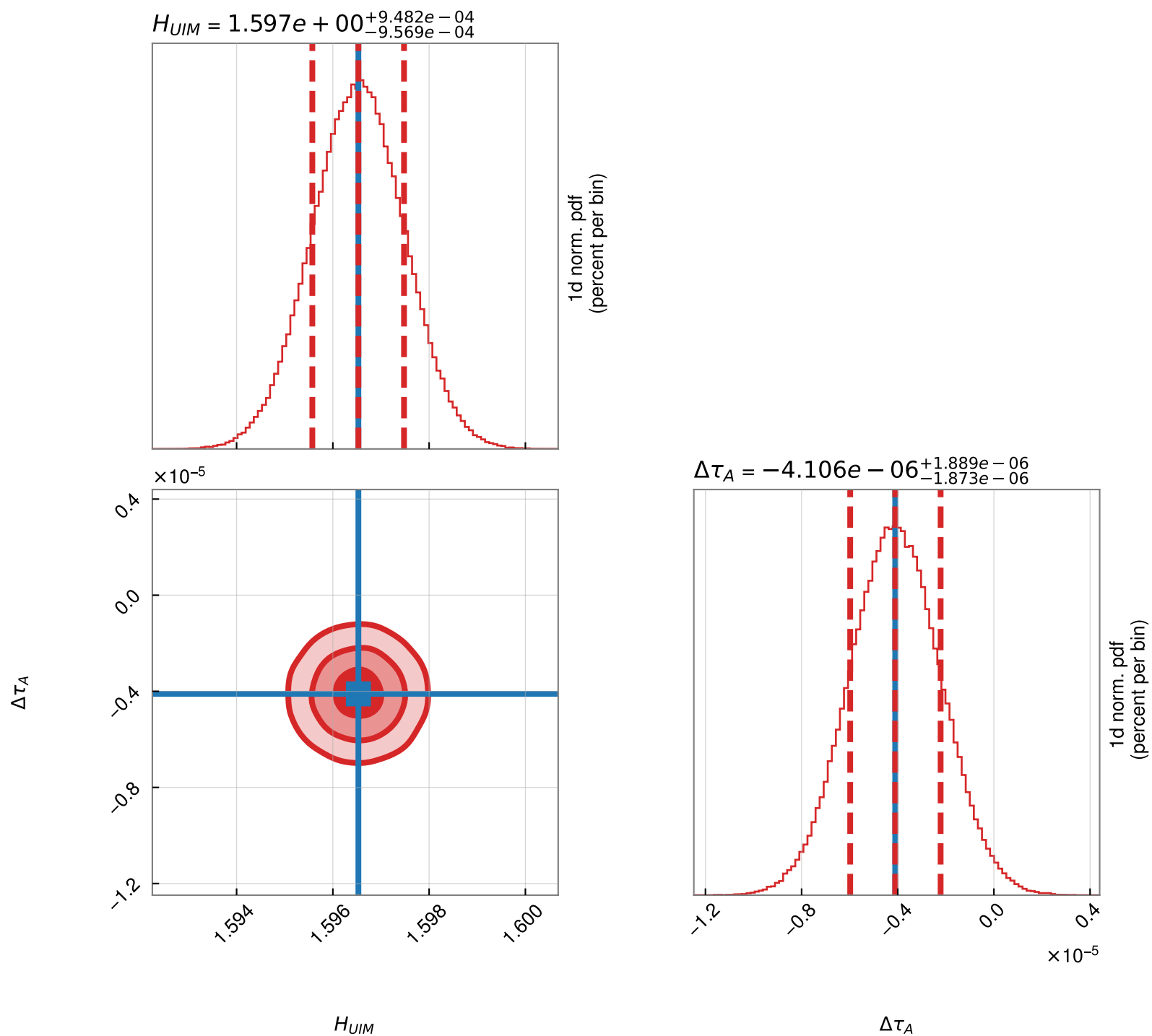
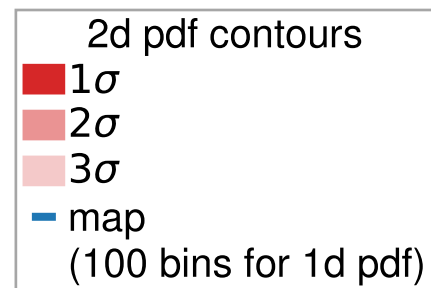


Actuation strength residuals
(meas./model w. free params)



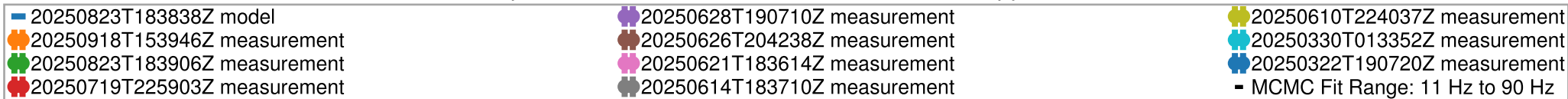
Parameter	(value +/-) value	+	-
Actuation Gain, Hau (N/A)	1.597	0.0009482 (0.06%)	0.0009569 (0.06%)
Residual time delay, tau_A (s)	-4.106e-06	1.889e-06 (-46.00%)	1.873e-06 (-45.62%)

20250918T153946Z EX L1 actuation MCMC corner plot

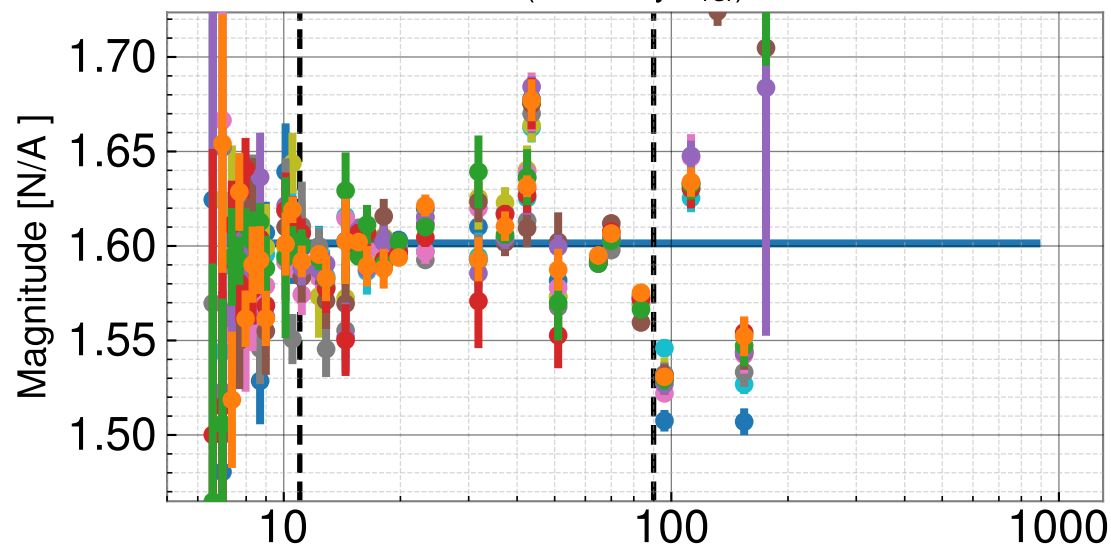


H1SUSEX L1 actuation model history (last 9 measurements)

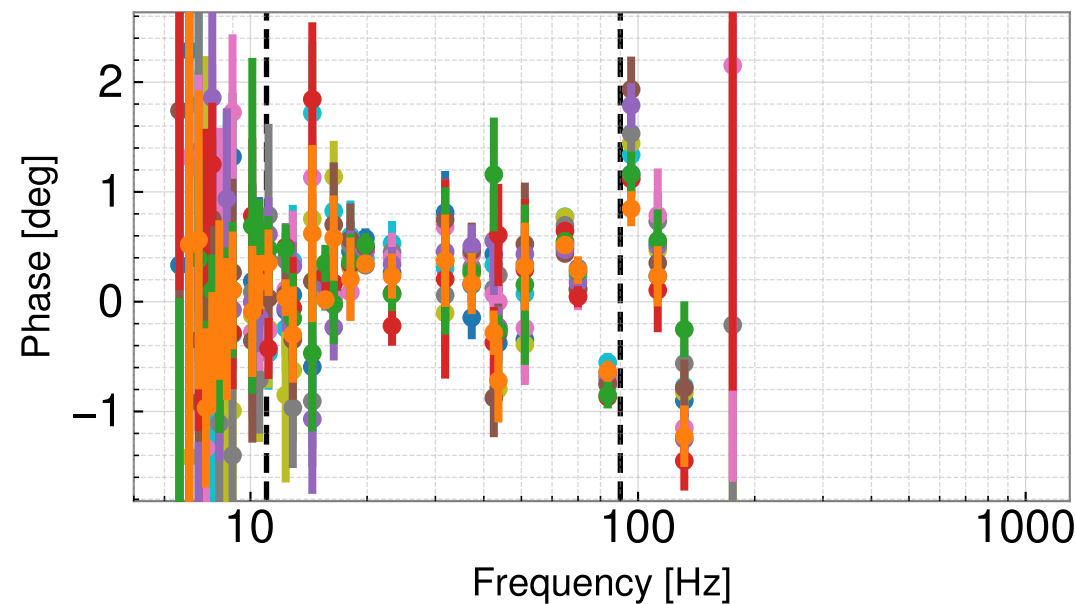
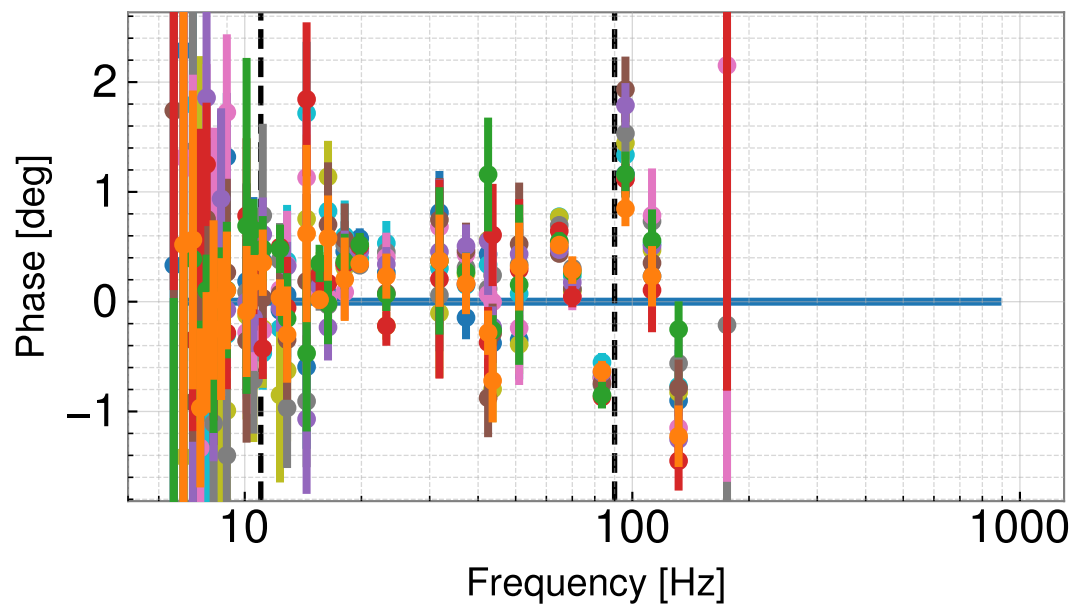
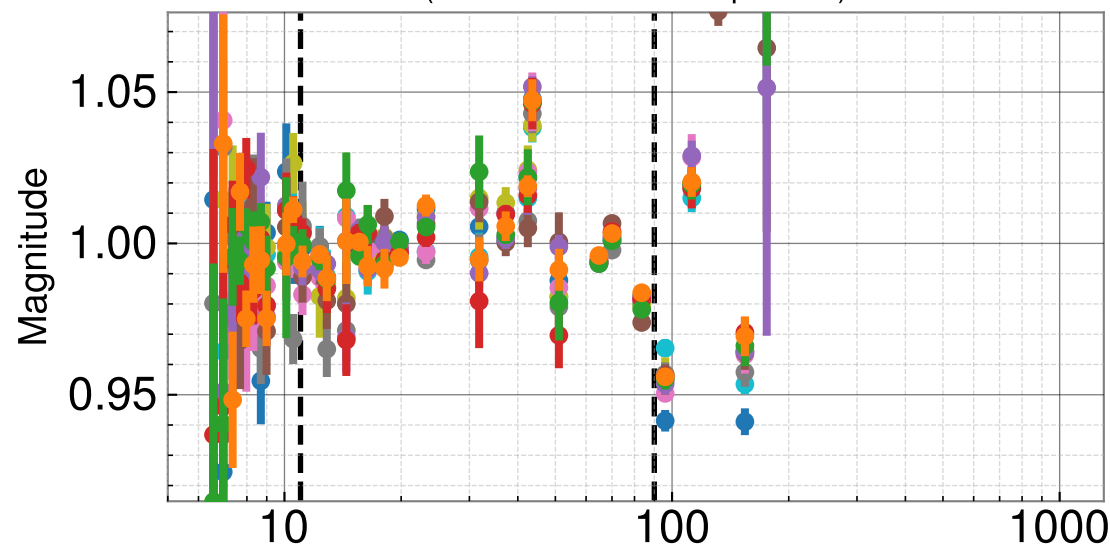
All fixed parameters drawn from 20250918T153918Z/pydarm_H1.ini



Actuation strength transfer functions
(scaled by H_{ref})



Actuation strength residuals
(meas./model w. free params)



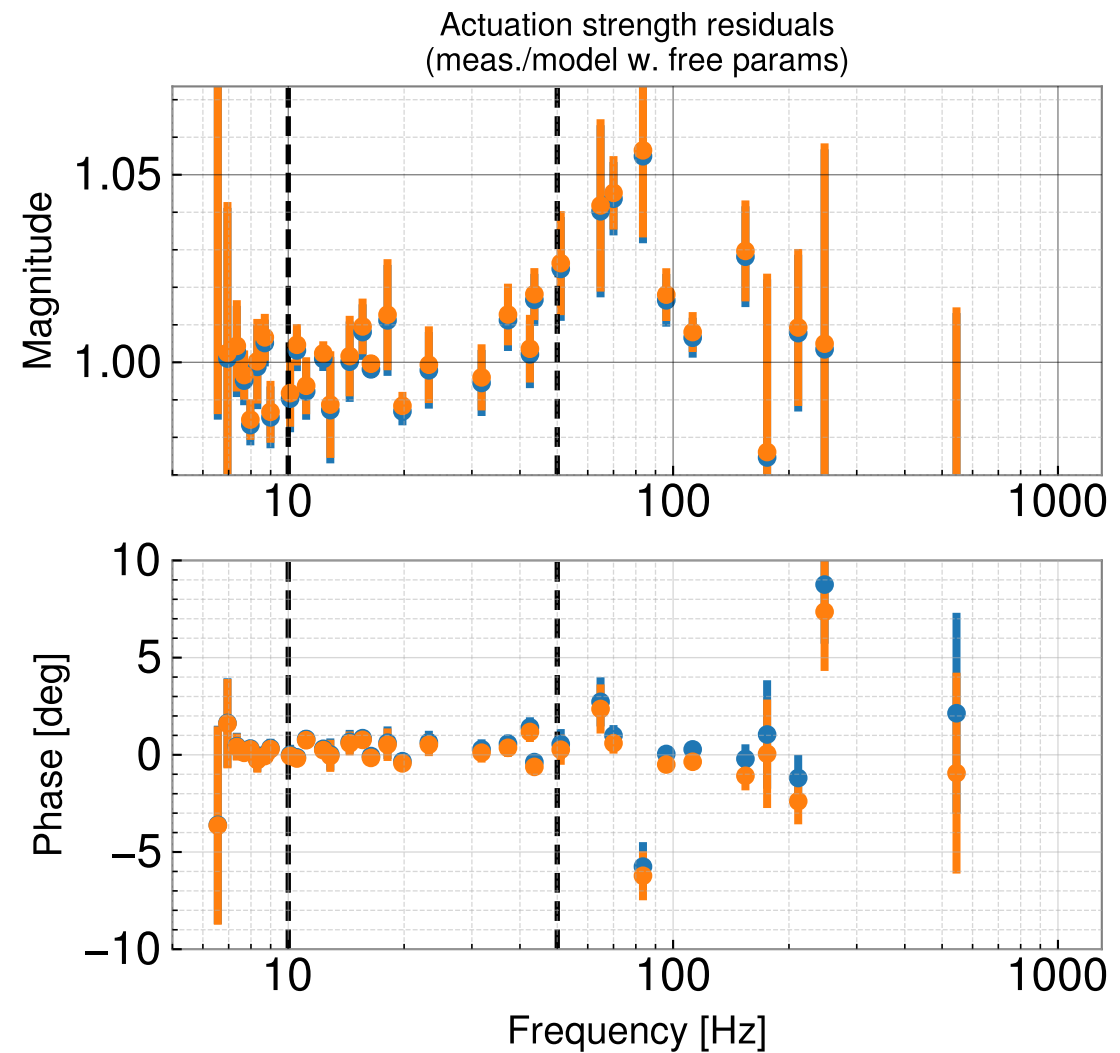
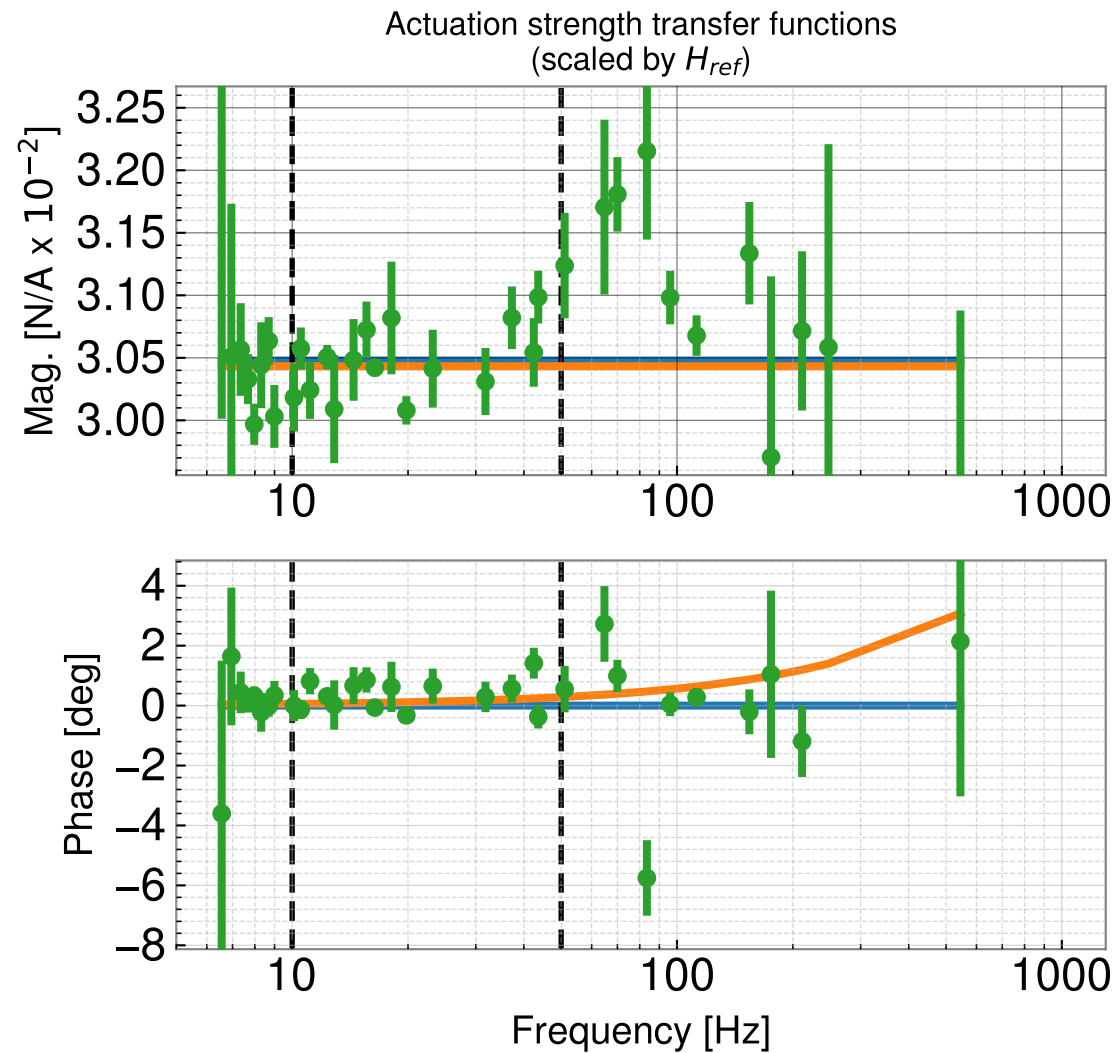
H1SUSEX L2 actuation model MCMC summary

All fixed parameters drawn from 20250918T153918Z/pydarm_H1.ini

— Model w free params from report 20250823T183838Z
— Model w free params from
— MCMC fit to 20250918T153945Z data

20250918T153945Z measurement

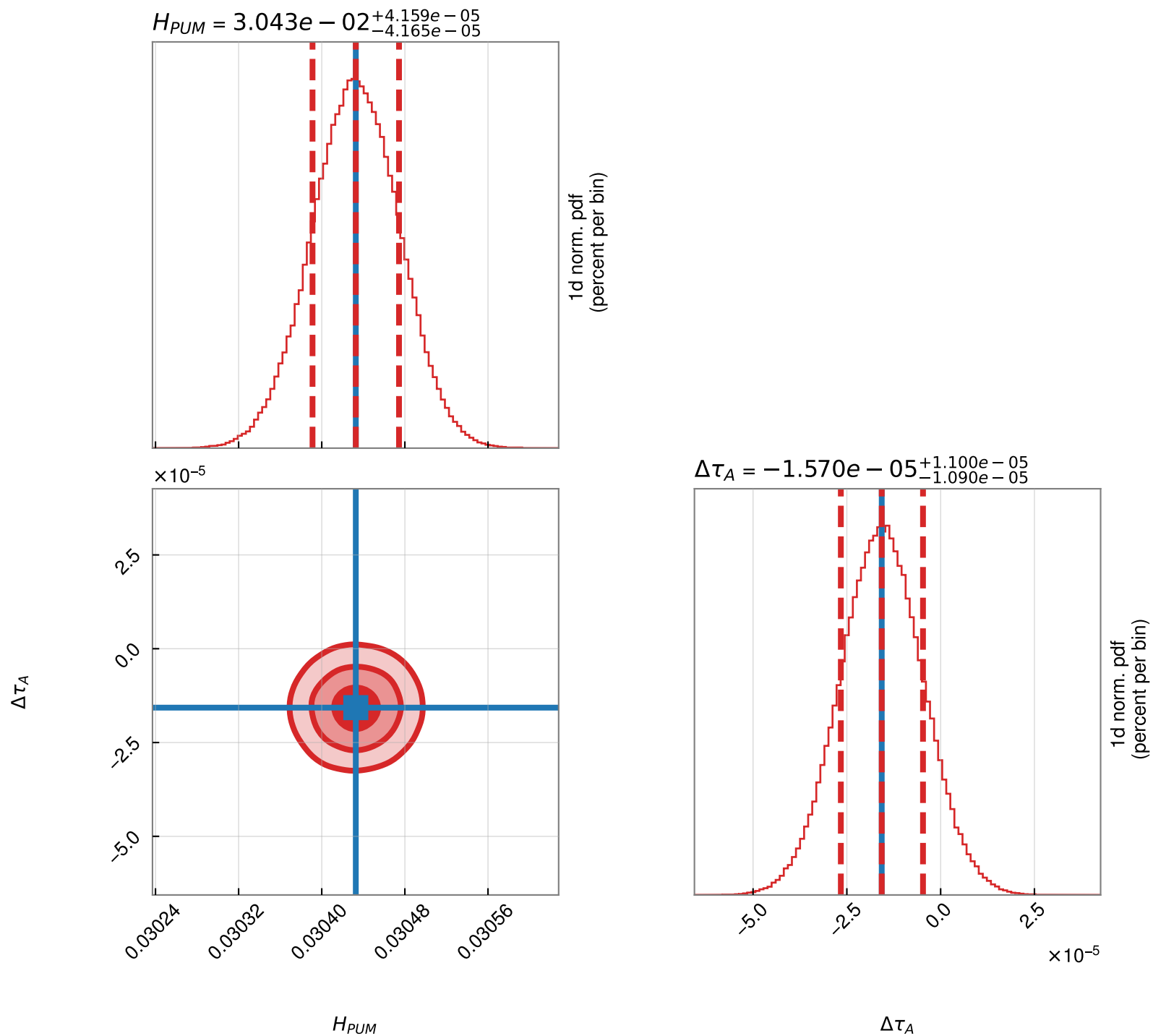
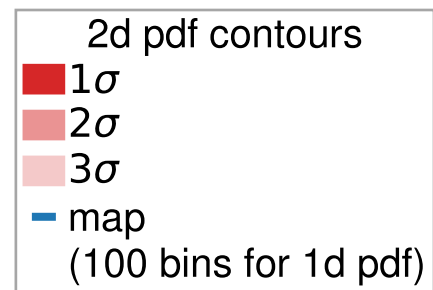
— Fit range 10.0 to 50.0 Hz



Parameter	(value +/-) value	+	-
Actuation Gain, Hap (N/A)	0.03043	4.159e-05 (0.14%)	4.165e-05 (0.14%)
Residual time delay, tau_A (s)	-1.57e-05	1.1e-05 (-70.05%)	1.09e-05 (-69.40%)

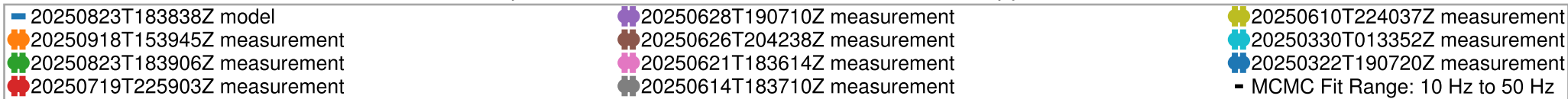
20250918T153945Z EX L2 actuation

MCMC corner plot

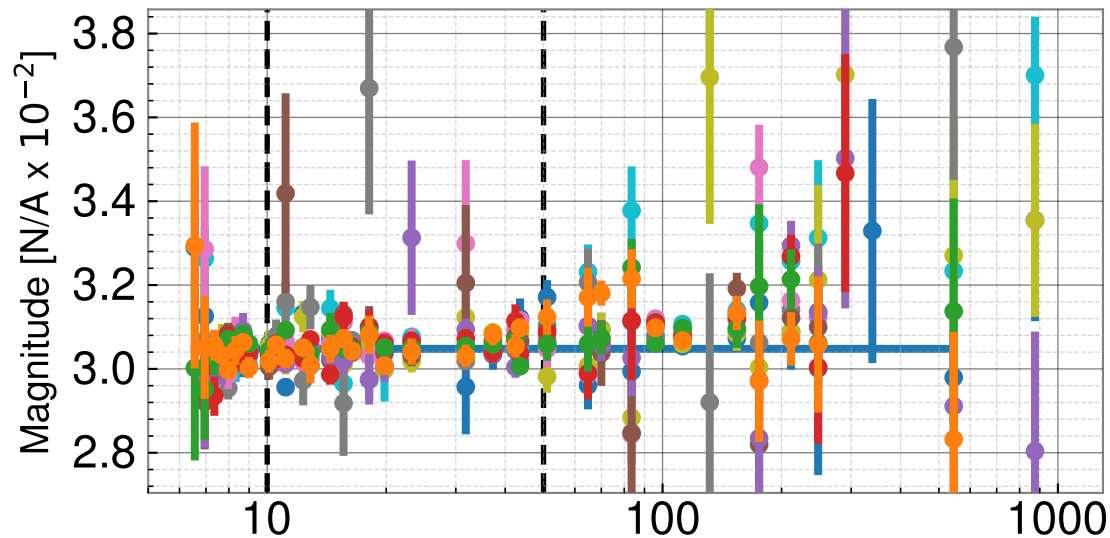


H1SUSEX L2 actuation model history (last 9 measurements)

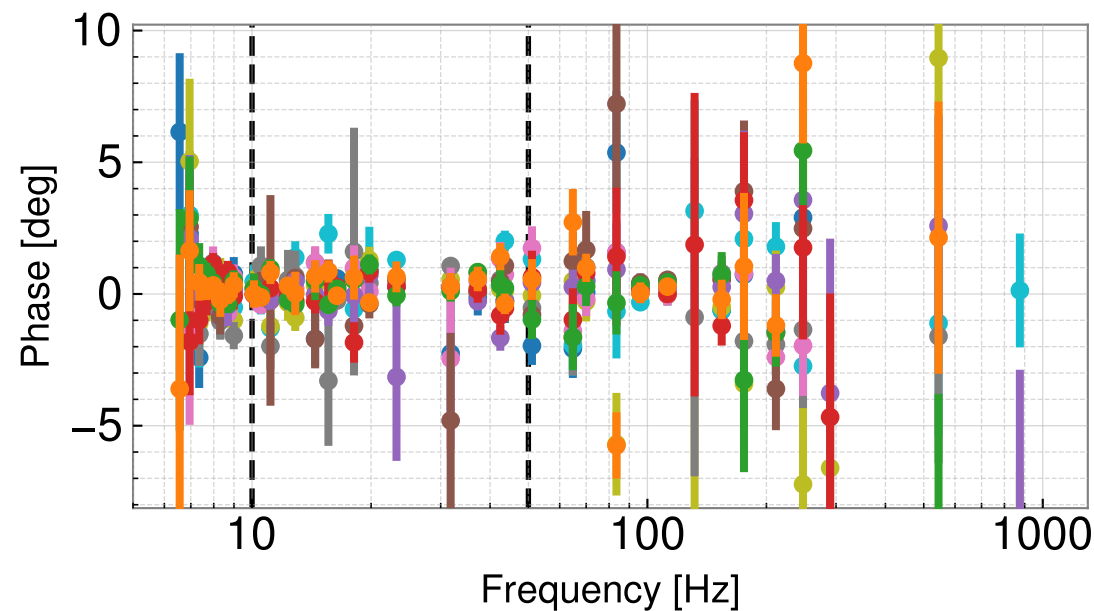
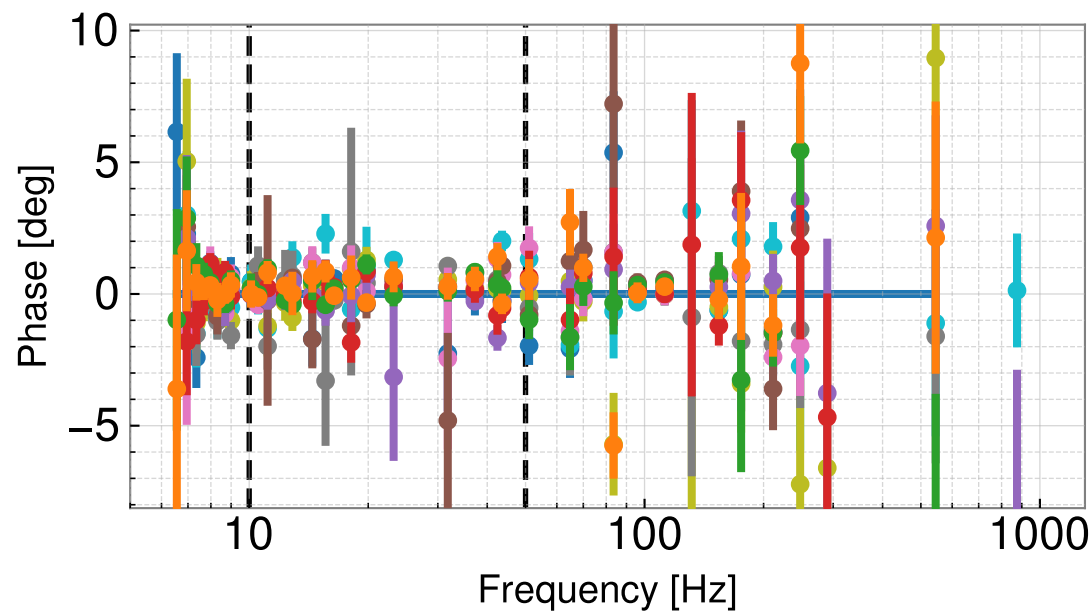
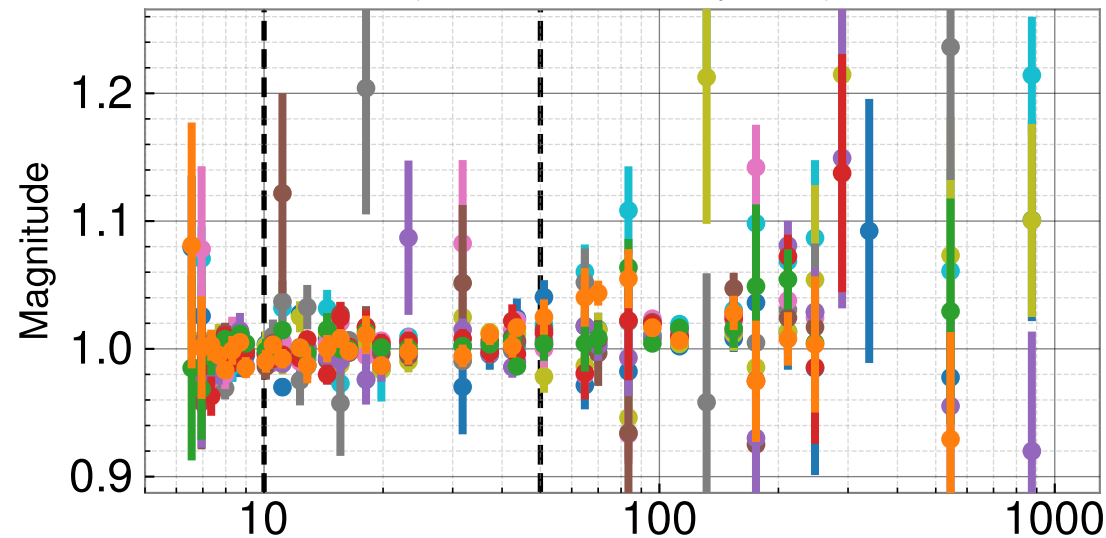
All fixed parameters drawn from 20250918T153918Z/pydarm_H1.ini



Actuation strength transfer functions
(scaled by H_{ref})

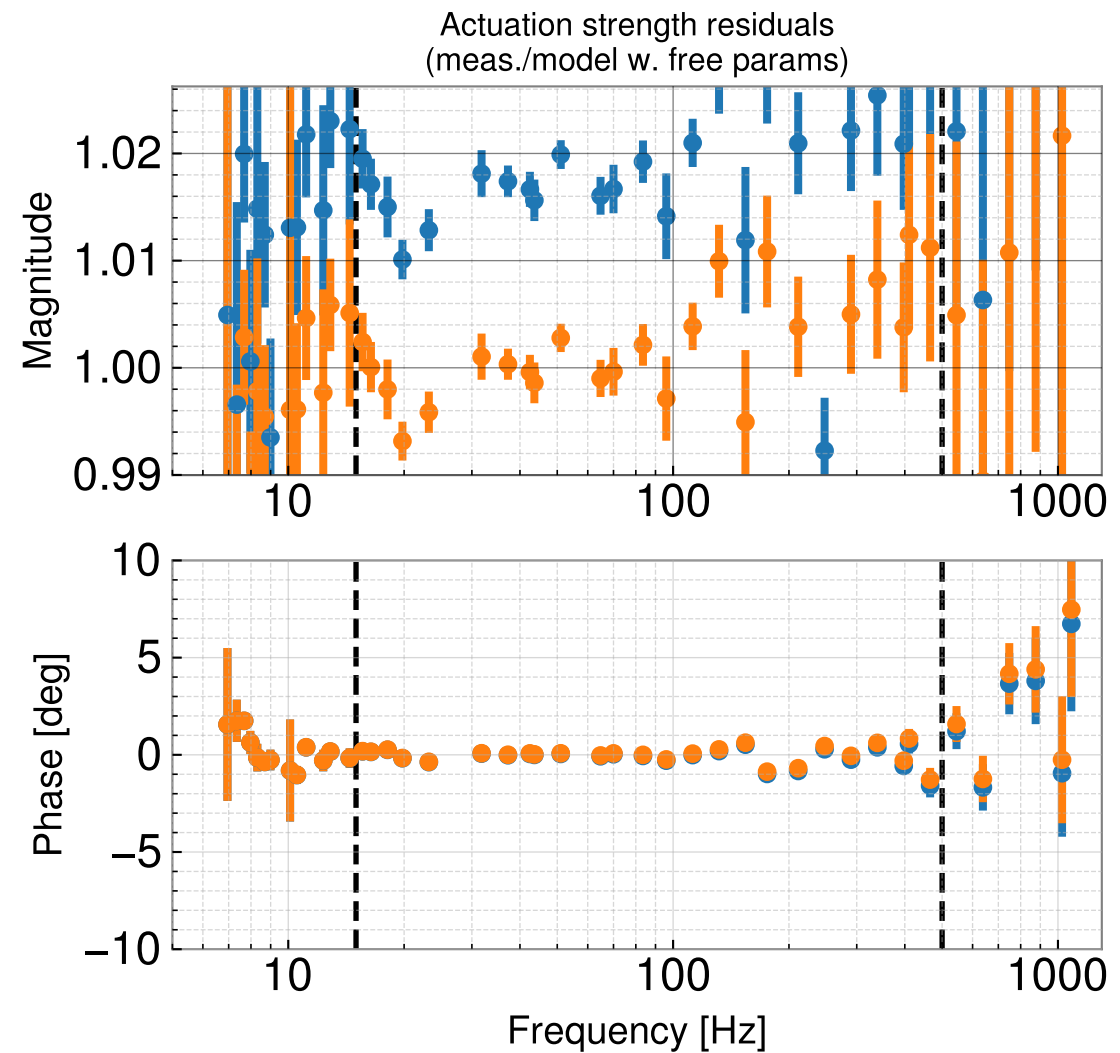
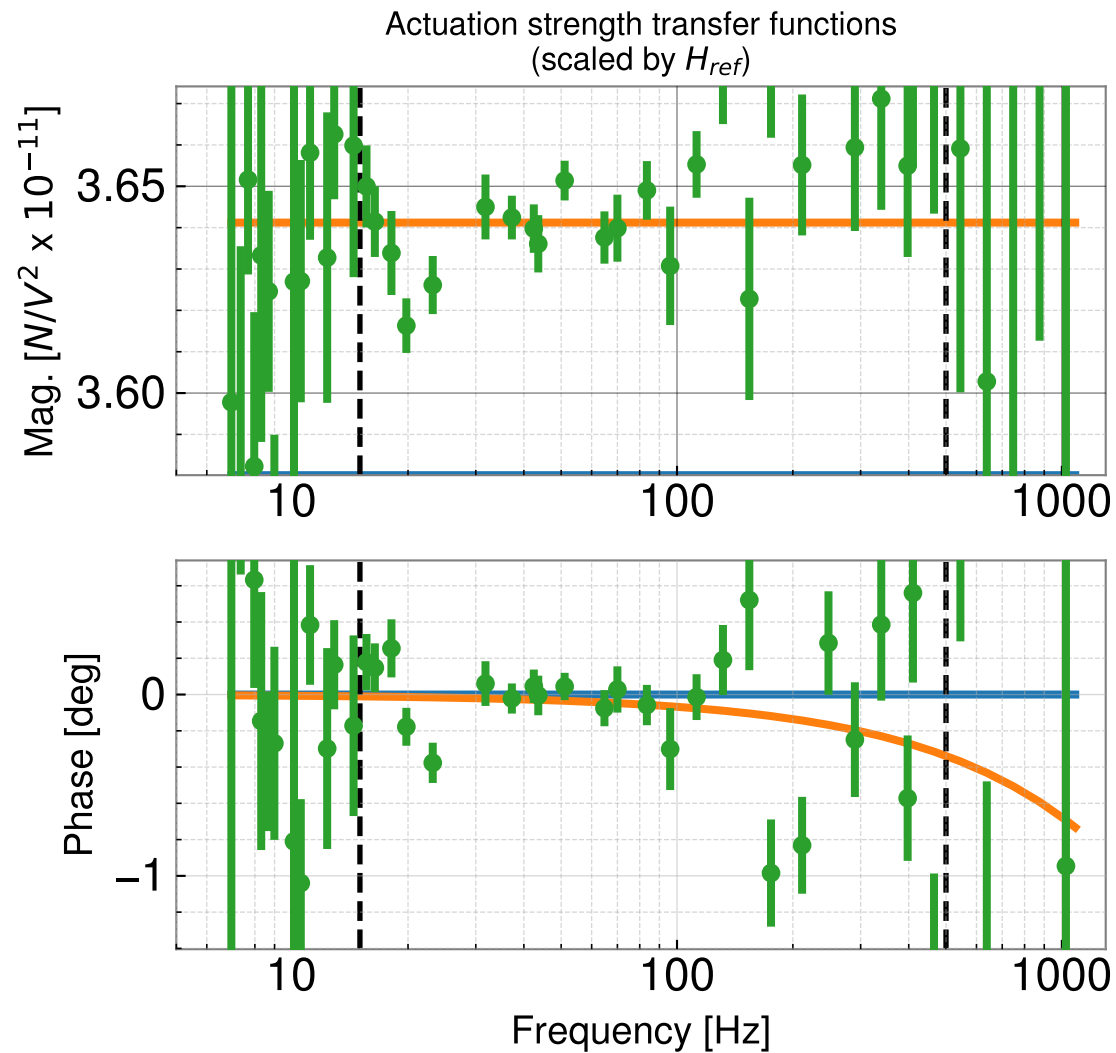
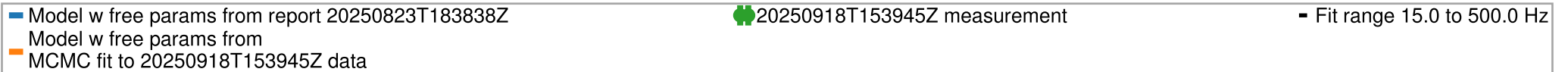


Actuation strength residuals
(meas./model w. free params)



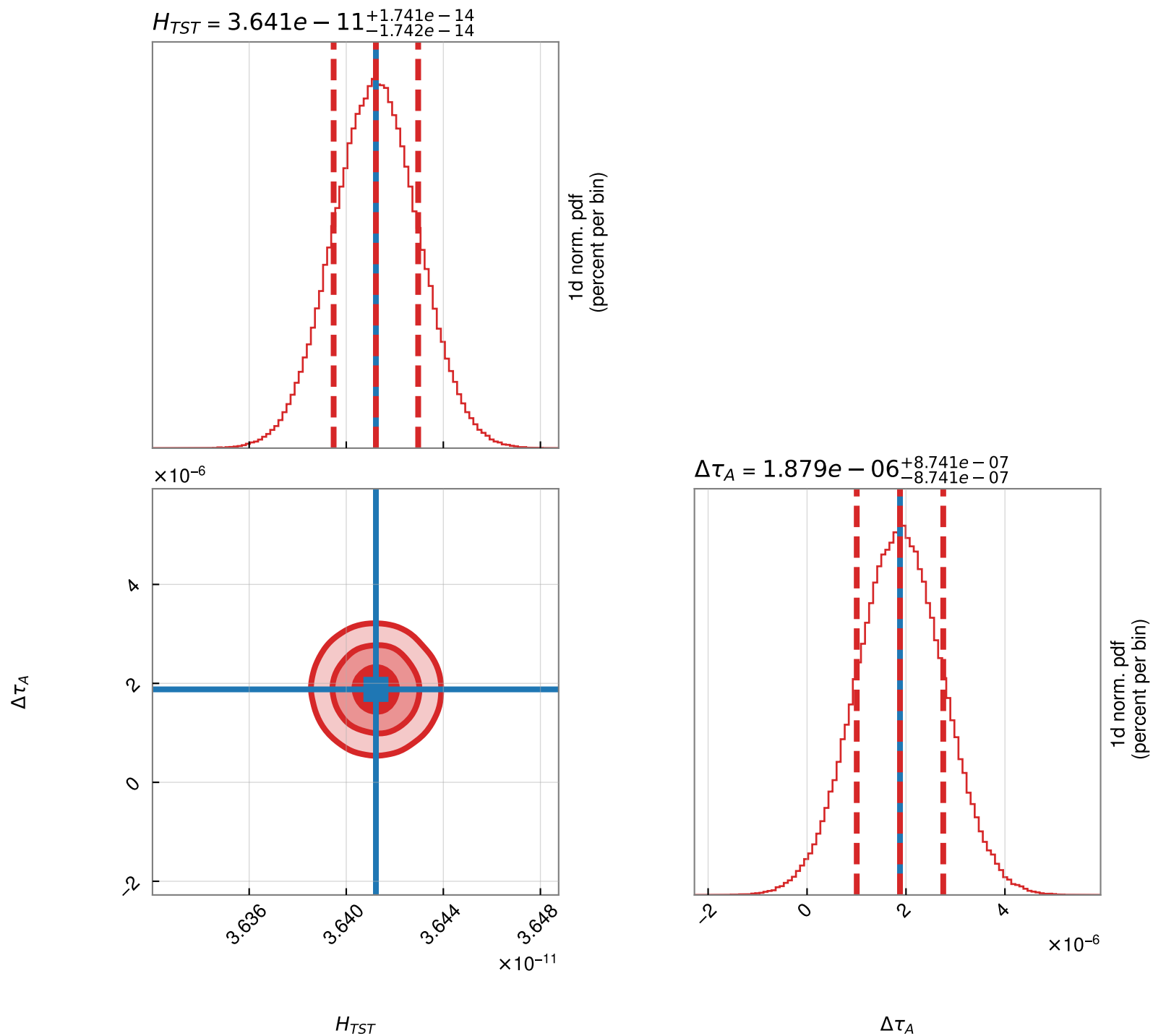
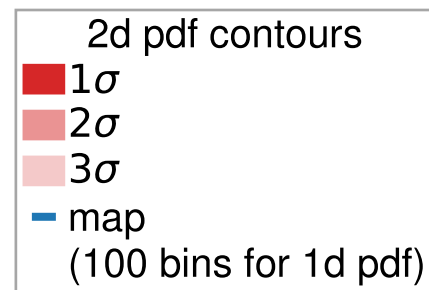
H1SUSEX L3 actuation model MCMC summary

All fixed parameters drawn from 20250918T153918Z/pydarm_H1.ini



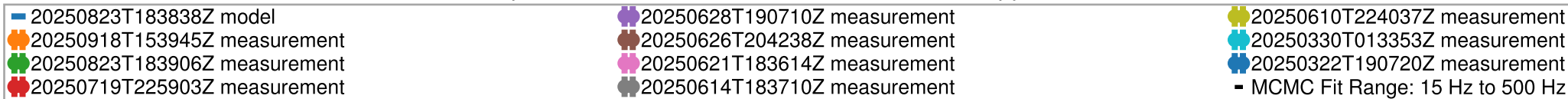
Parameter	(value +/-) value	+	-
Actuation Gain, Hat (N/V^{**2})	3.641e-11	1.741e-14 (0.05%)	1.742e-14 (0.05%)
Residual time delay, tau_A (s)	1.879e-06	8.741e-07 (46.53%)	8.741e-07 (46.53%)

20250918T153945Z EX L3 actuation MCMC corner plot

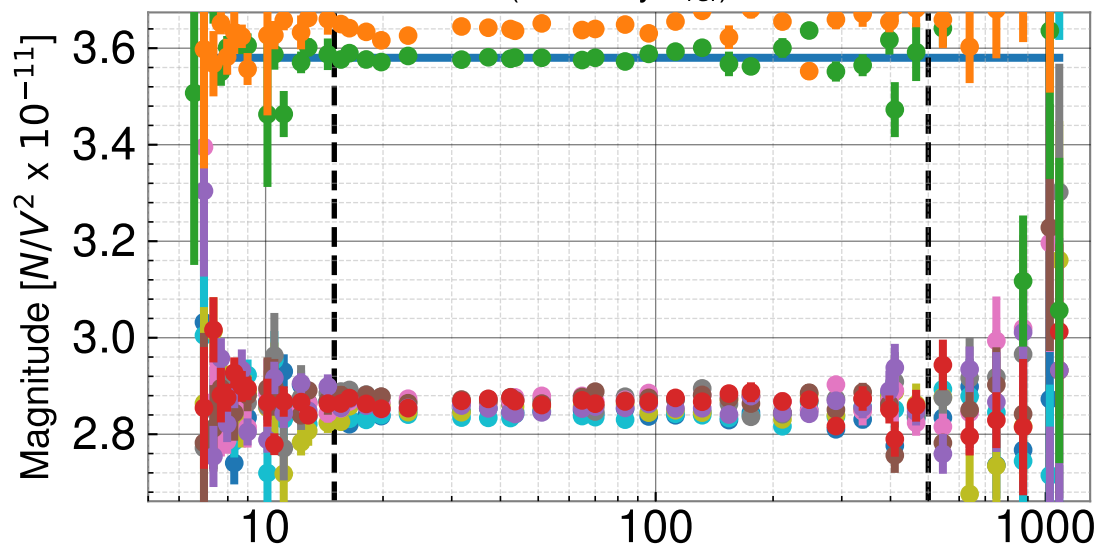


H1SUSEX L3 actuation model history (last 9 measurements)

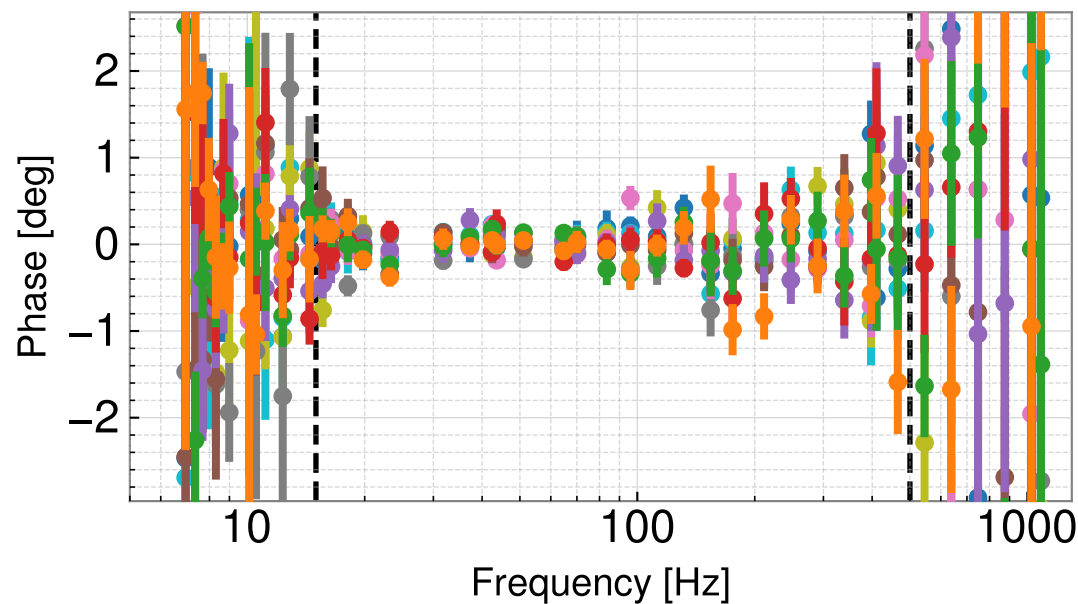
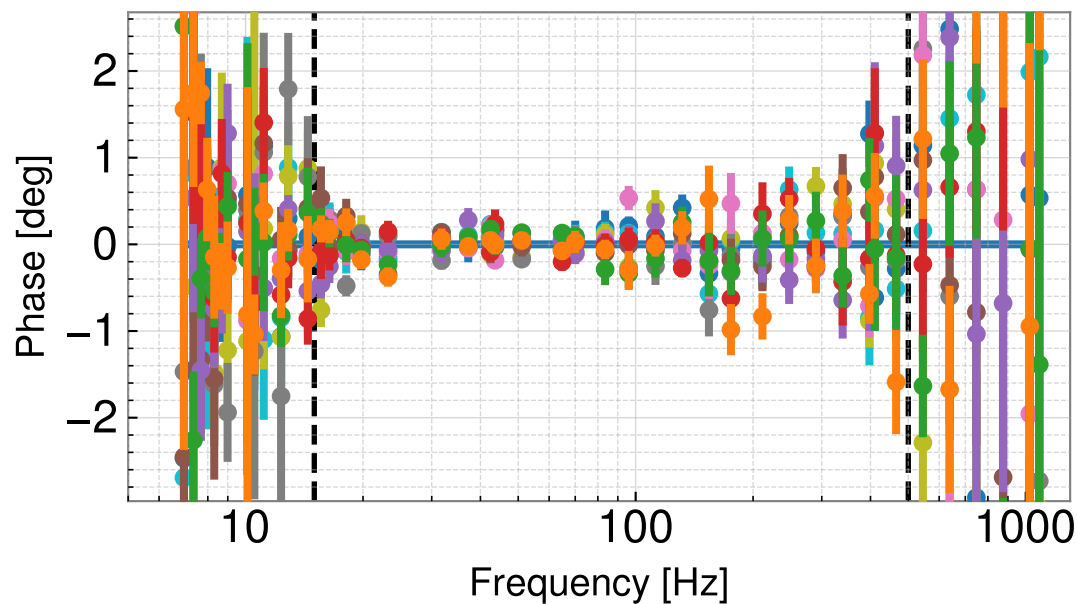
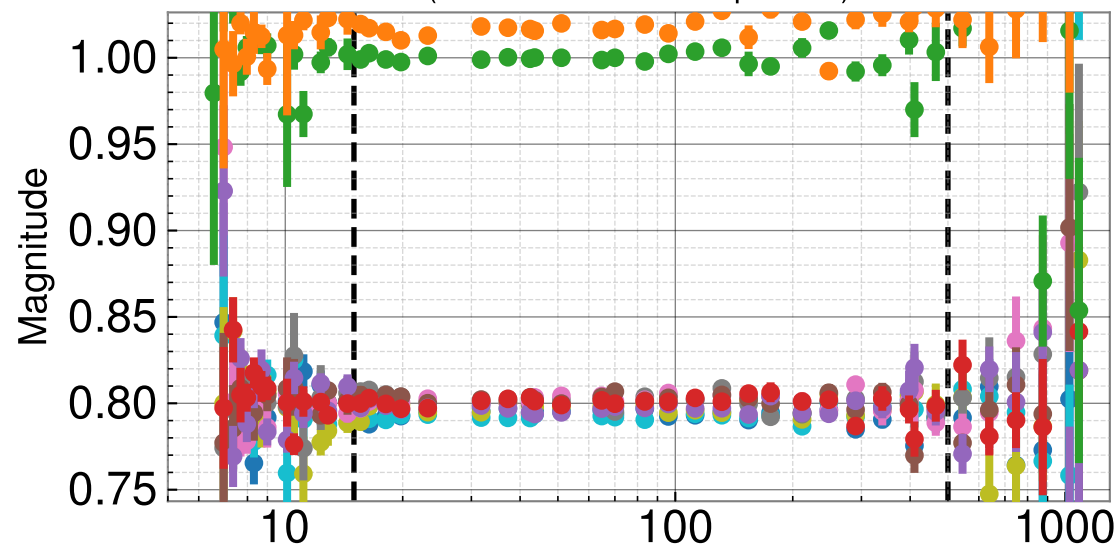
All fixed parameters drawn from 20250918T153918Z/pydarm_H1.ini



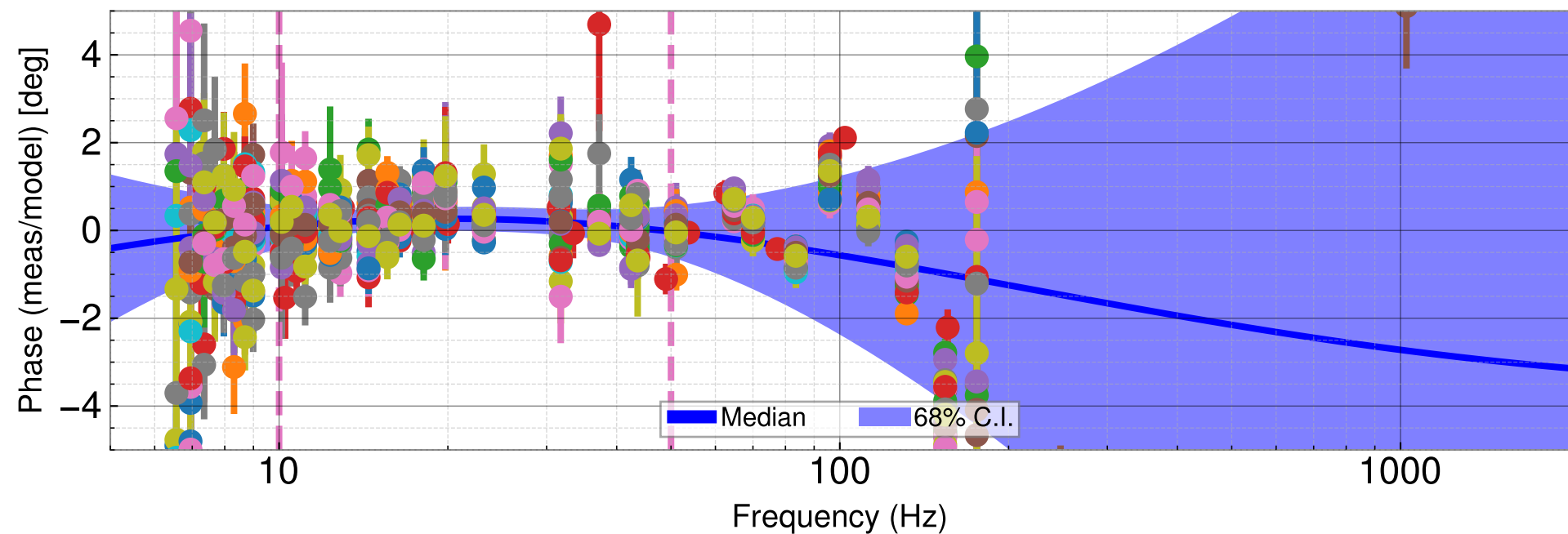
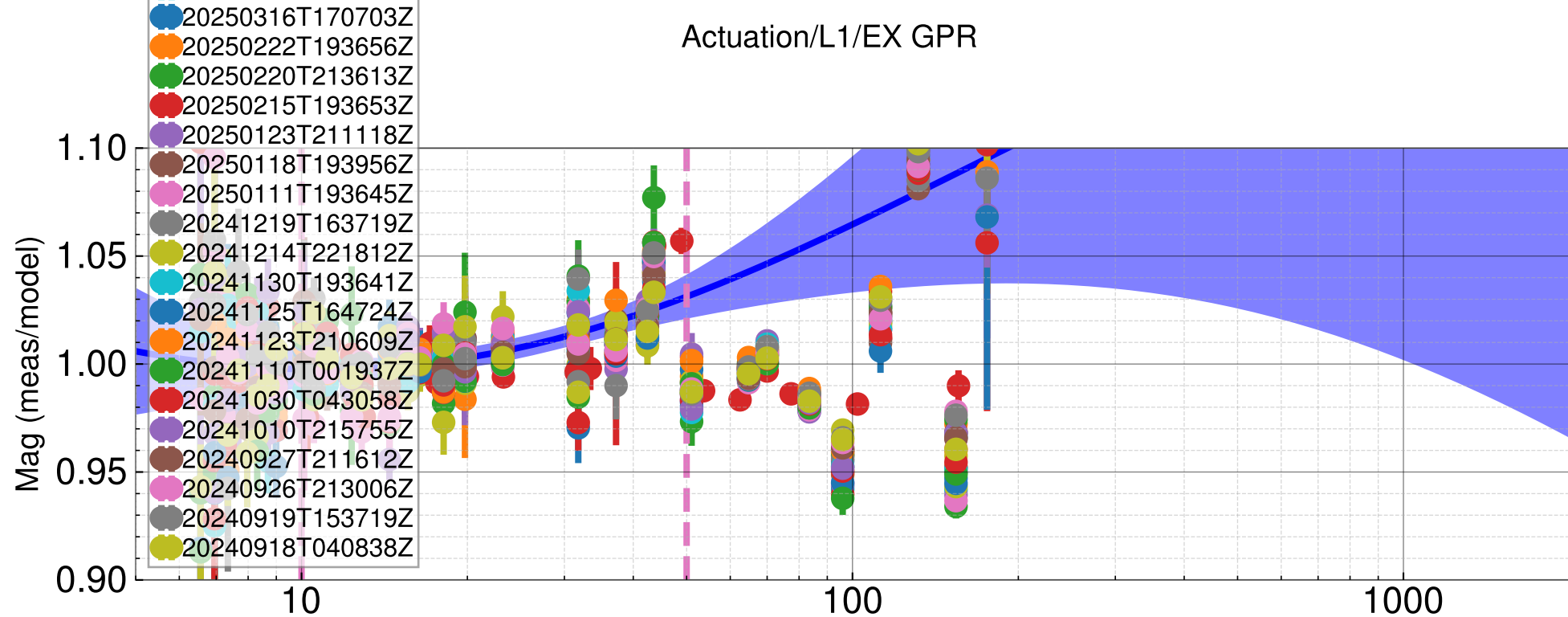
Actuation strength transfer functions
(scaled by H_{ref})



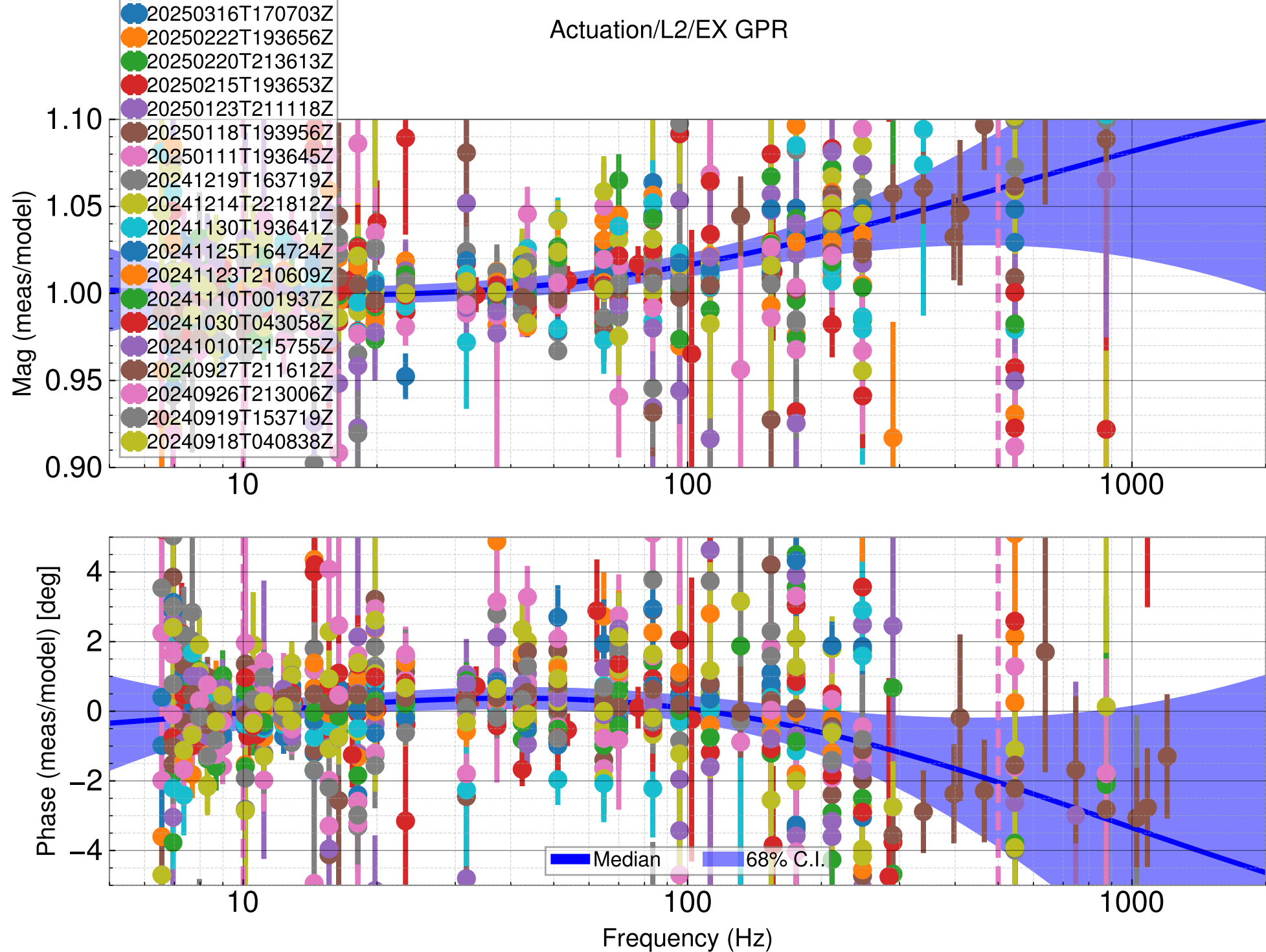
Actuation strength residuals
(meas./model w. free params)



Actuation/L1/EX GPR



Actuation/L2/EX GPR



Actuation/L3/EX GPR

