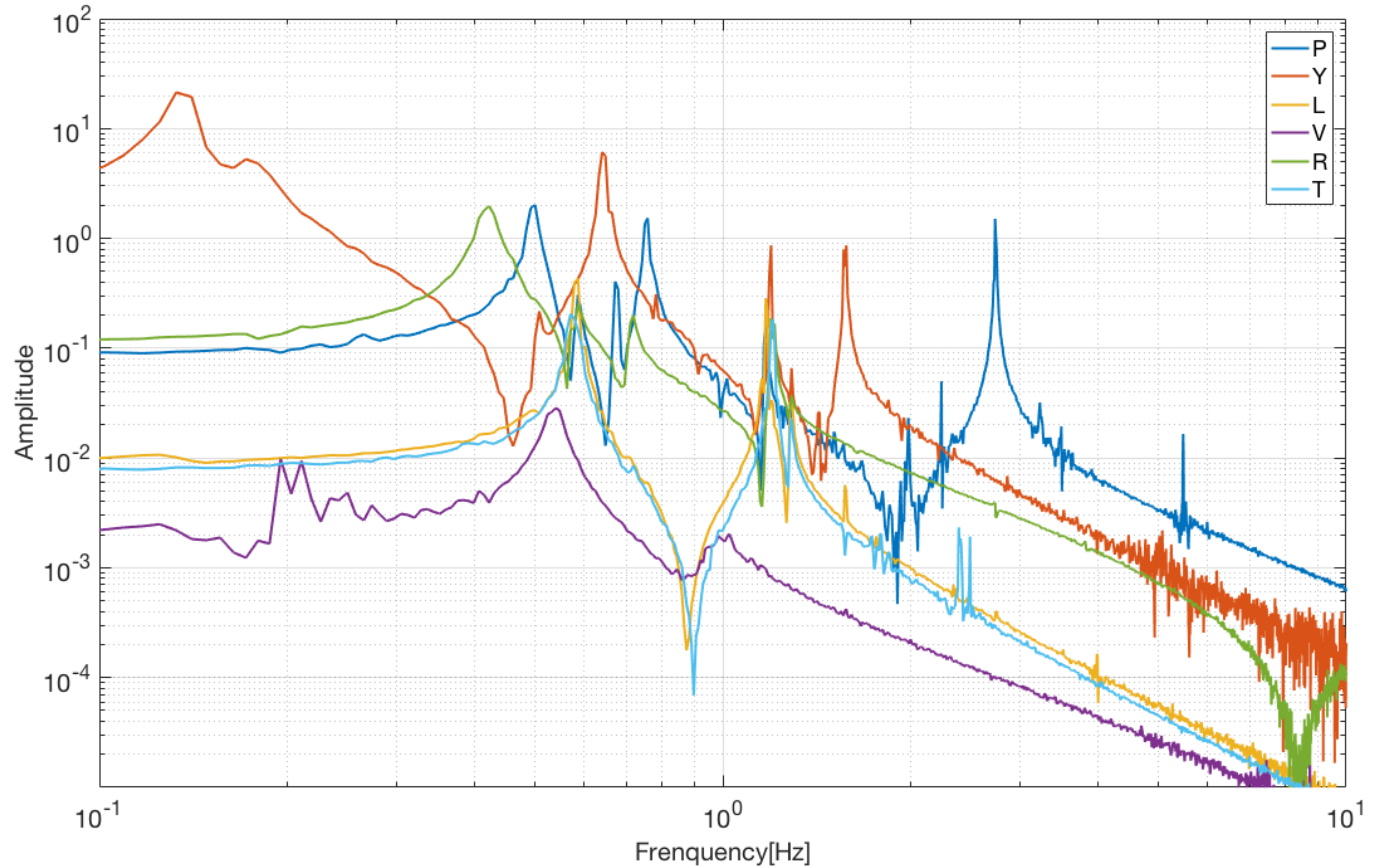# Auto transfer functions of all BS_IM DOFs

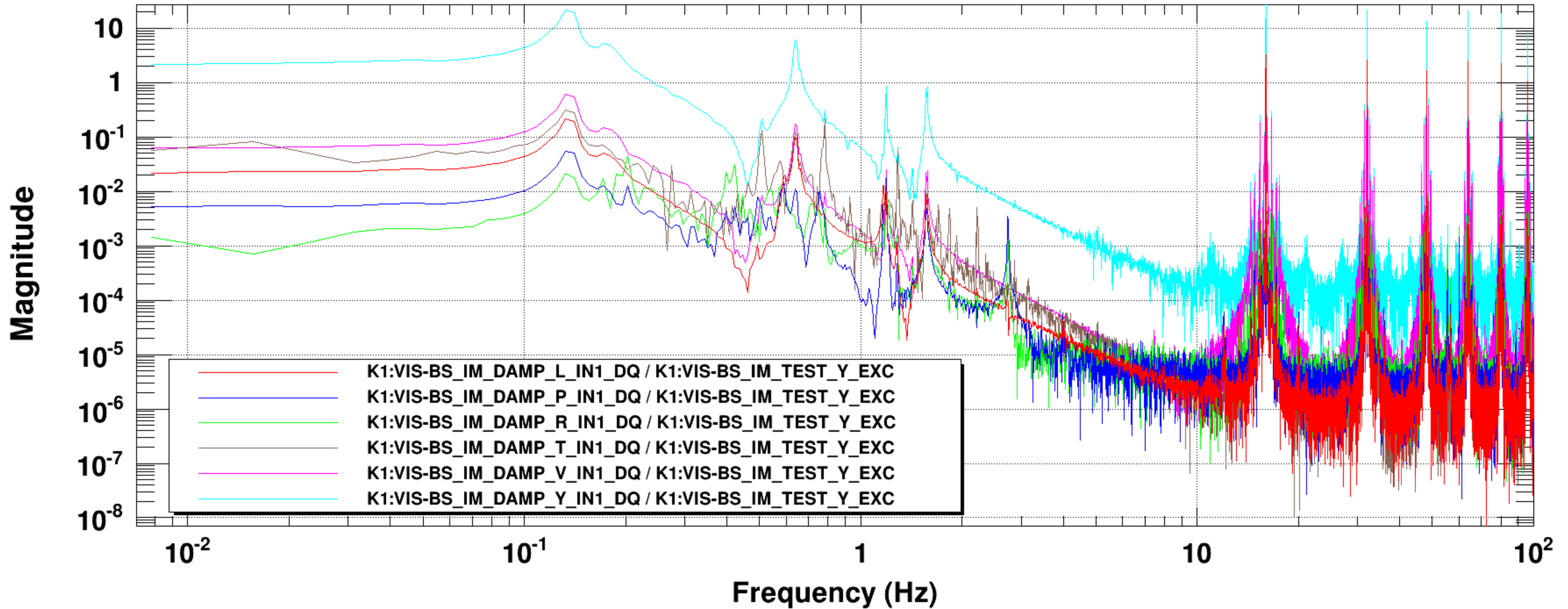# Pitch → All

Legend:
- K1:VIS-BS_IM_DAMP_L_IN1_DQ / K1:VIS-BS_IM_TEST_P_EXC
- K1:VIS-BS_IM_DAMP_P_IN1_DQ / K1:VIS-BS_IM_TEST_P_EXC
- K1:VIS-BS_IM_DAMP_R_IN1_DQ / K1:VIS-BS_IM_TEST_P_EXC
- K1:VIS-BS_IM_DAMP_T_IN1_DQ / K1:VIS-BS_IM_TEST_P_EXC
- K1:VIS-BS_IM_DAMP_V_IN1_DQ / K1:VIS-BS_IM_TEST_P_EXC
- K1:VIS-BS_IM_DAMP_Y_IN1_DQ / K1:VIS-BS_IM_TEST_P_EXC
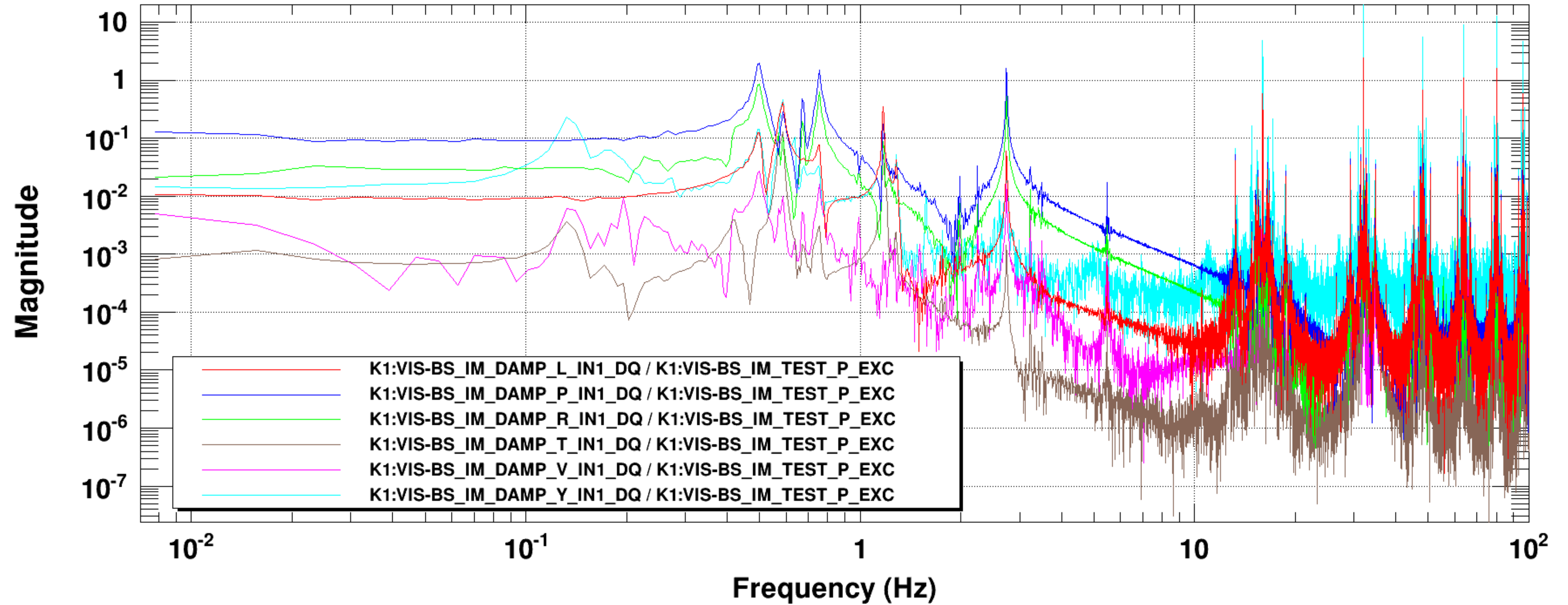
L	T	V	R	P	Y
0.035	<1%	0.01	0.39	1	0.033

Estimated sensing coupling

2

Yaw → All

L	T	V	R	P	Y
<1%	-0.01	0.028	<1%	<1%	1

Estimated sensing coupling

3

Length → All

Legend:
- K1:VIS-BS_IM_DAMP_L_IN1_DQ / K1:VIS-BS_IM_TEST_L_EXC
- K1:VIS-BS_IM_DAMP_P_IN1_DQ / K1:VIS-BS_IM_TEST_L_EXC
- K1:VIS-BS_IM_DAMP_R_IN1_DQ / K1:VIS-BS_IM_TEST_L_EXC
- K1:VIS-BS_IM_DAMP_T_IN1_DQ / K1:VIS-BS_IM_TEST_L_EXC
- K1:VIS-BS_IM_DAMP_V_IN1_DQ / K1:VIS-BS_IM_TEST_L_EXC
- K1:VIS-BS_IM_DAMP_Y_IN1_DQ / K1:VIS-BS_IM_TEST_L_EXC
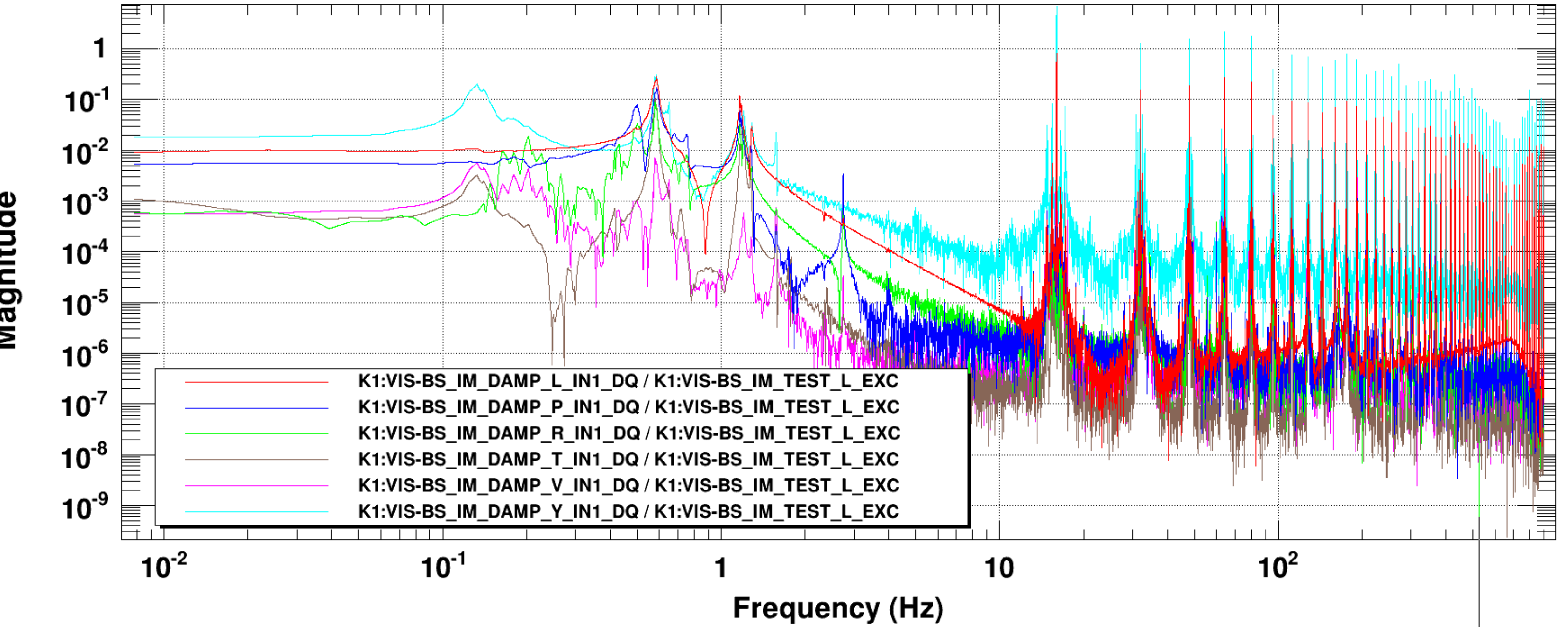
Vertical → All
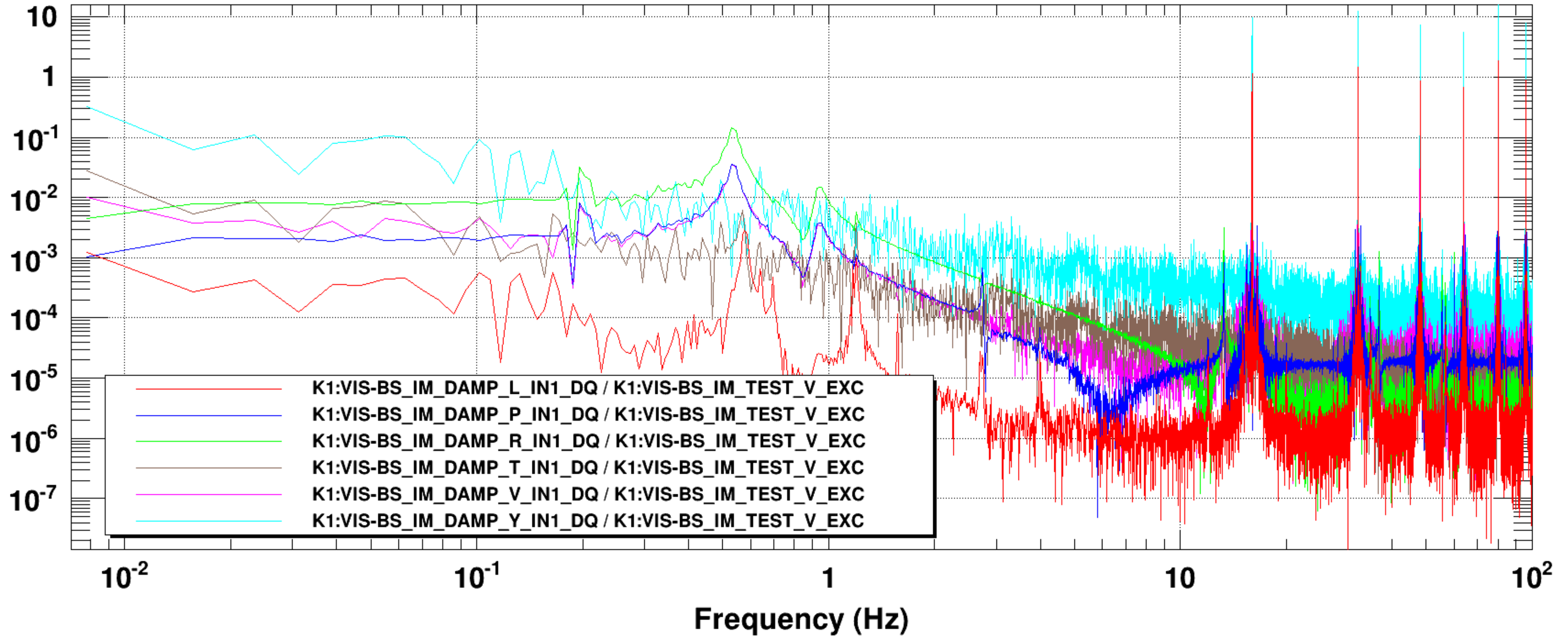
L	T	V	R	P	Y
<1%	<1%	1	-4	0.7	<1%

Estimated sensing coupling

5

Roll → All
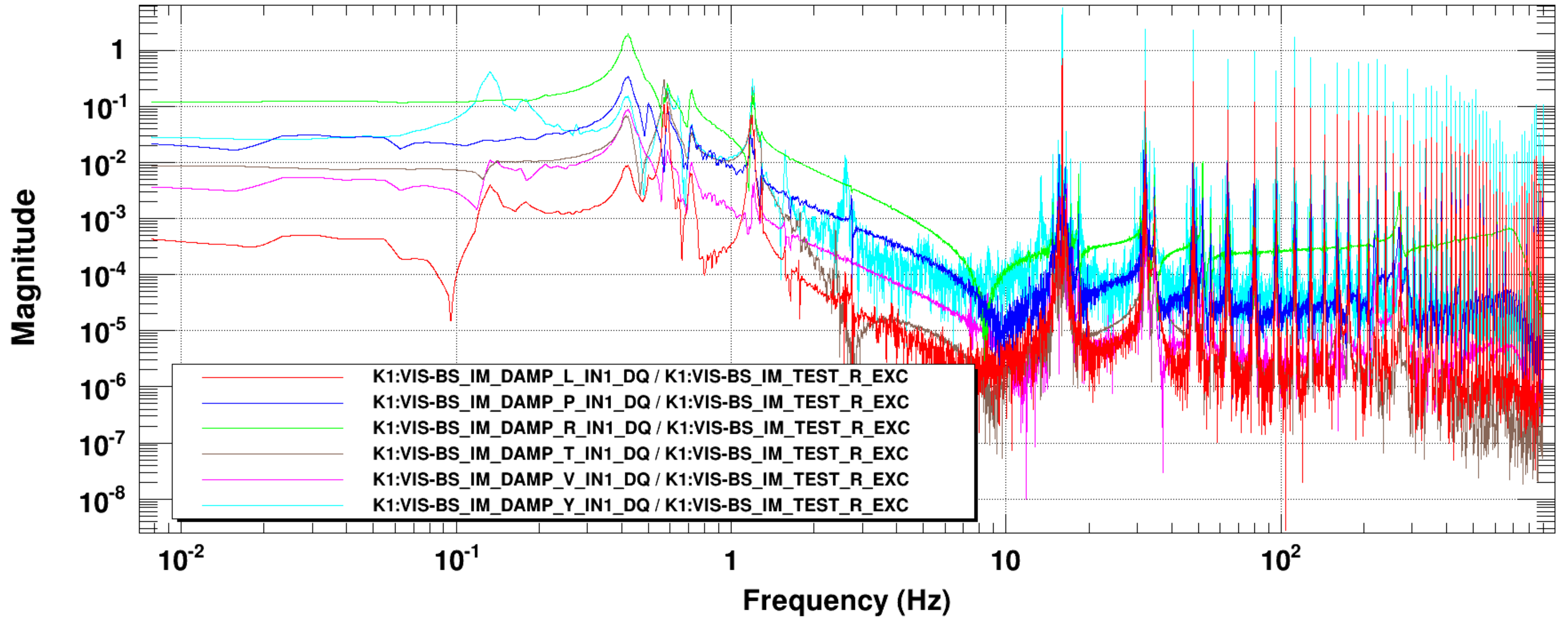
L	T	V	R	P	Y
<1%	0.035	-0.046	1	-0.179	-0.079

Estimated sensing coupling

Translation → All

Legend:
- K1:VIS-BS_IM_DAMP_L_IN1_DQ / K1:VIS-BS_IM_TEST_T_EXC
- K1:VIS-BS_IM_DAMP_P_IN1_DQ / K1:VIS-BS_IM_TEST_T_EXC
- K1:VIS-BS_IM_DAMP_R_IN1_DQ / K1:VIS-BS_IM_TEST_T_EXC
- K1:VIS-BS_IM_DAMP_T_IN1_DQ / K1:VIS-BS_IM_TEST_T_EXC
- K1:VIS-BS_IM_DAMP_V_IN1_DQ / K1:VIS-BS_IM_TEST_T_EXC
- K1:VIS-BS_IM_DAMP_Y_IN1_DQ / K1:VIS-BS_IM_TEST_T_EXC
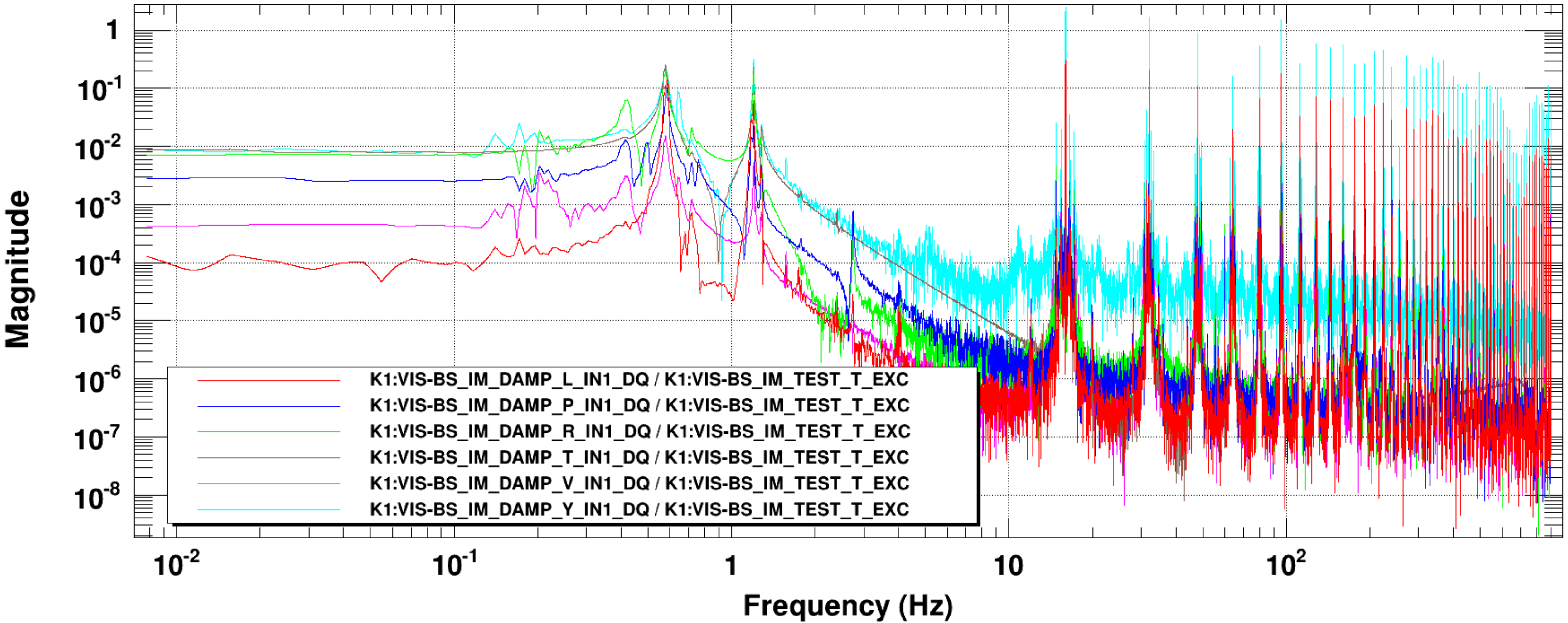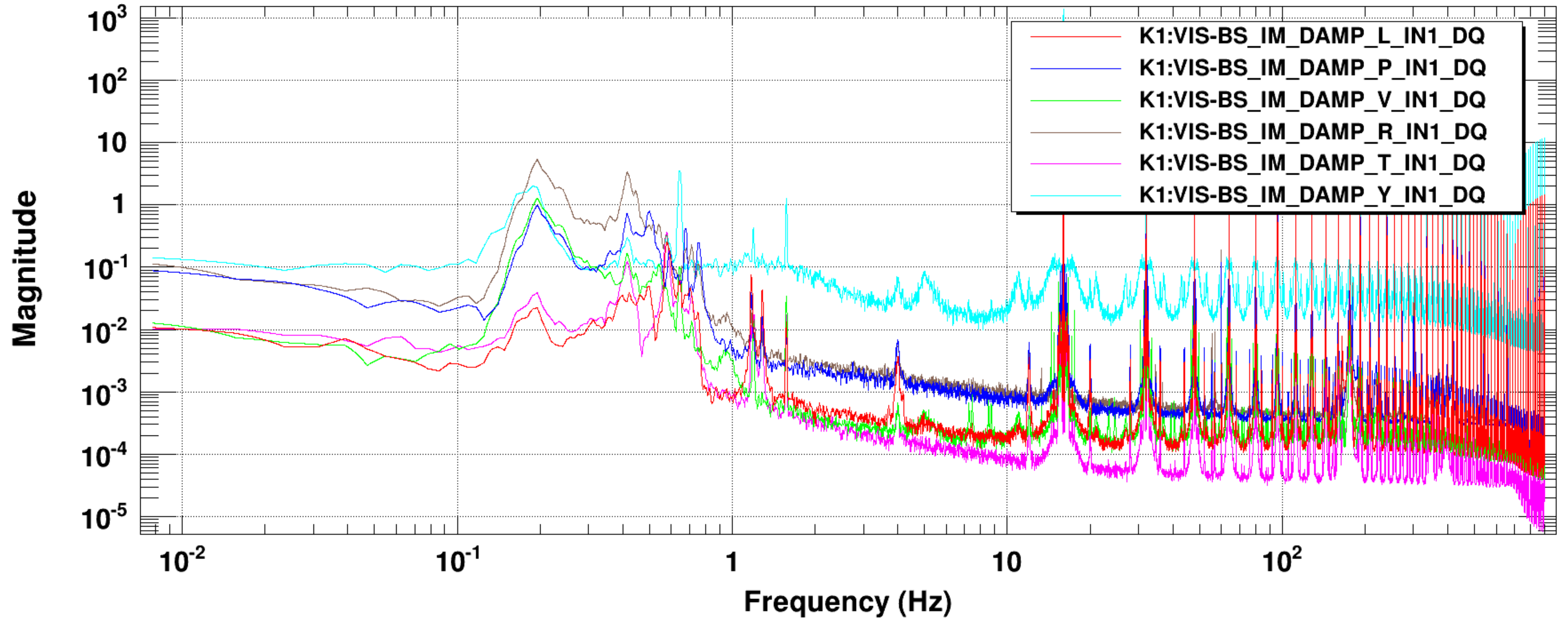
Open loop spectra

Open loop spectra (of the 6 OSEM)

Legend:
- K1:VIS-BS_IM_OSEMINF_H1_IN1_DQ
- K1:VIS-BS_IM_OSEMINF_H2_IN1_DQ
- K1:VIS-BS_IM_OSEMINF_H3_IN1_DQ
- K1:VIS-BS_IM_OSEMINF_V1_IN1_DQ
- K1:VIS-BS_IM_OSEMINF_V2_IN1_DQ
- K1:VIS-BS_IM_OSEMINF_V3_IN1_DQ

Magnitude vs Frequency (Hz)