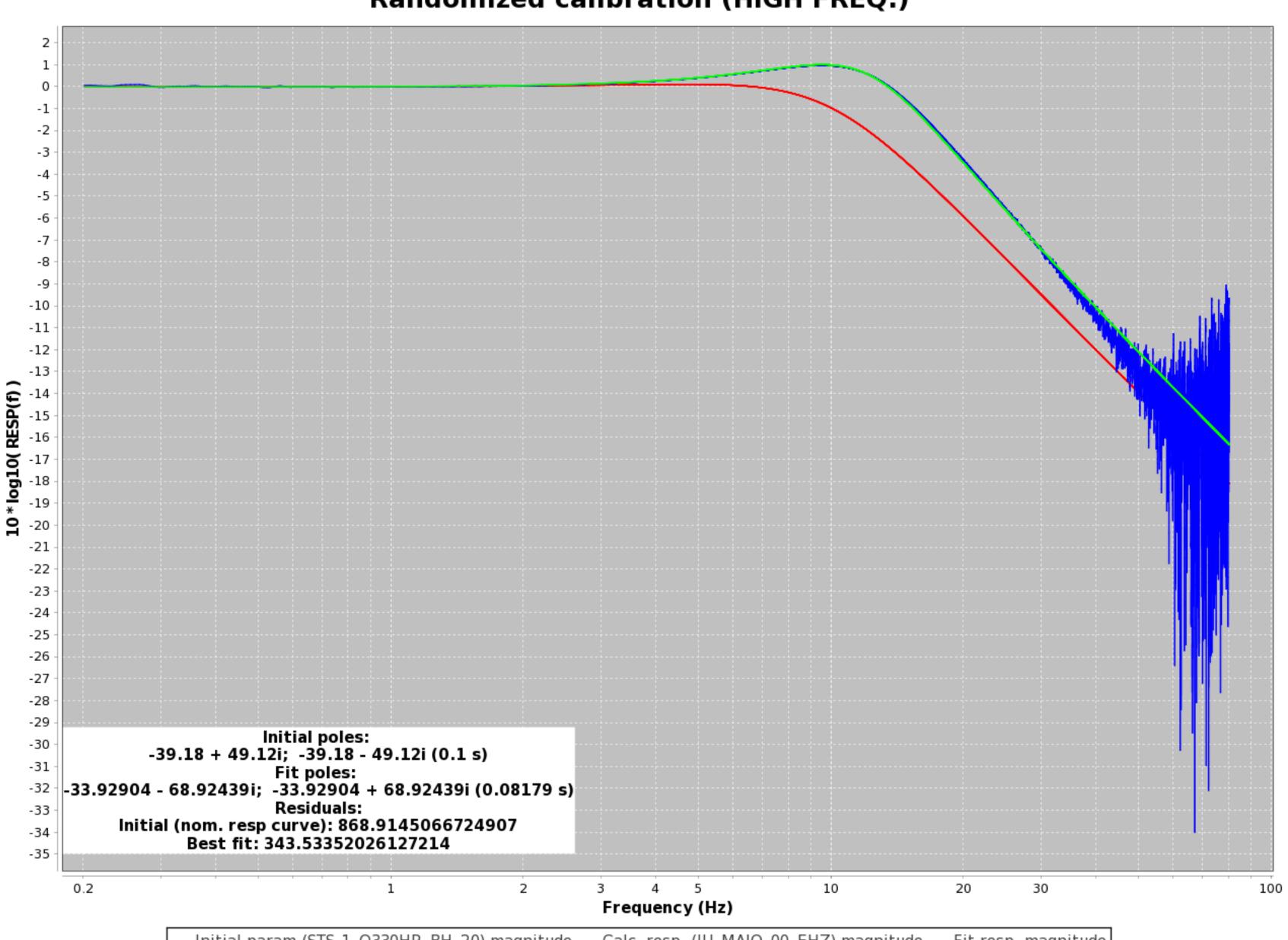
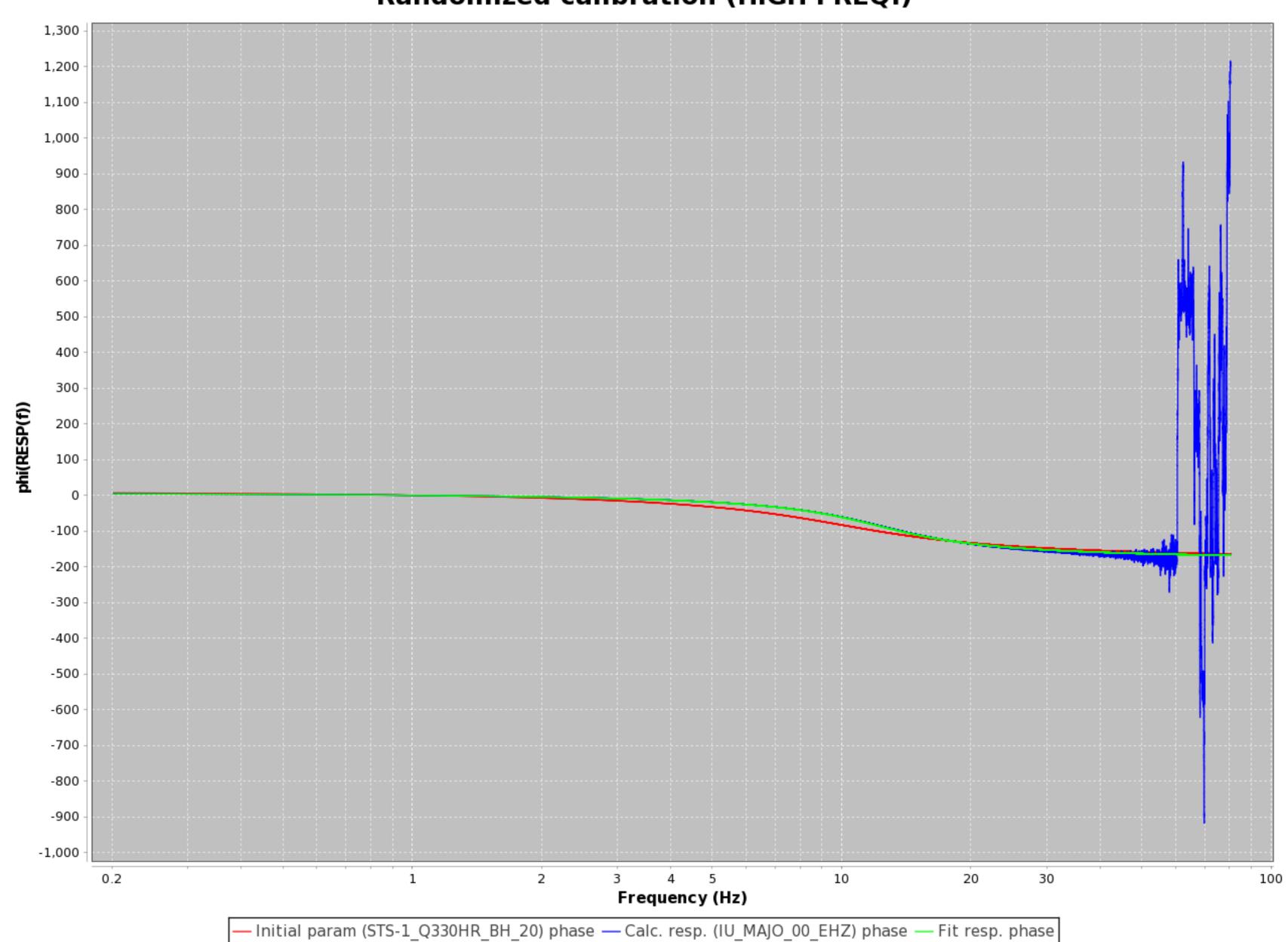
## Randomized calibration (HIGH FREQ.)



- Initial param (STS-1\_Q330HR\_BH\_20) magnitude — Calc. resp. (IU\_MAJO\_00\_EHZ) magnitude — Fit resp. magnitude





# **Randomized calibration** 8,500 8,000 7,500 7,000 6,500 6,000 5,500 **Amplitude error (bercentage)** 2,000 4,500 3,500 3,000 3,000 2,500 2,000 1,500 1,000 500 0 -500 100 0.2 10 20 30 2 3 1 Frequency (Hz) Amplitude of init. residual — Amplitude of fit residual **Randomized calibration** 800 700 600 500 400 300 200 100 0 -100 Phase error (degrees) -200 -300 -400 -500 -600 -700 -800

2

1

3 4 5 Frequency (Hz)

Phase of init. residual — Phase of fit residual

10

20

30

100

-900

-1,000

-1,100

-1,200

-1,300

-1,400 -

0.2

Initial poles:

-39.18 + 49.12i; -39.18 - 49.12i (0.1 s)

Fit poles:

-33.92904 - 68.92439i; -33.92904 + 68.92439i (0.08179 s)

Residuals:

Initial (nom. resp curve): 868.9145066724907

Best fit: 343.53352026127214

Iteration count from solver: 6

Input filenames, with SEED and RESP files paired as appropriate:

IU\_MAJO\_CB\_BC0

IU\_MAJO\_00\_EHZ

STS-1\_Q330HR\_BH\_20

Residuals weighting:

Amplitude: 1036.1703528586088

Phase: 0.3118156073308762

Time of report generation:

2017.214.17:47:17

Data start time:

2017.213.18:52:59

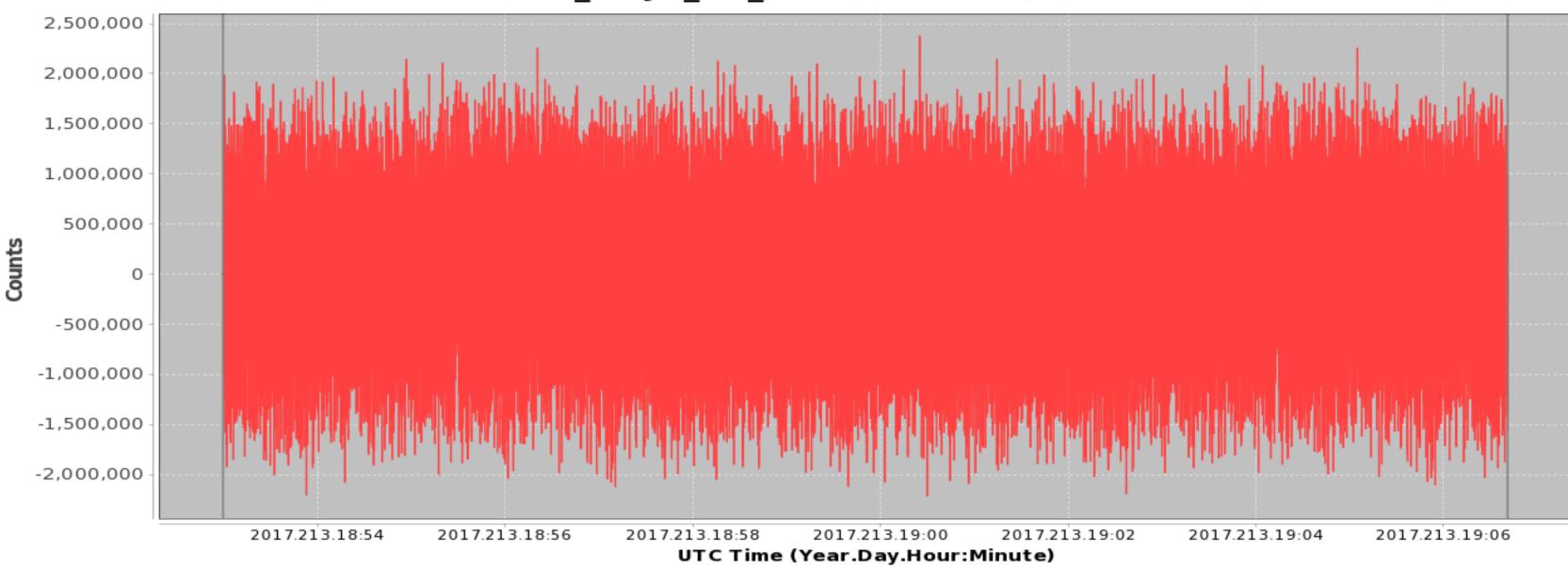
Data end time:

2017.213.19:06:40

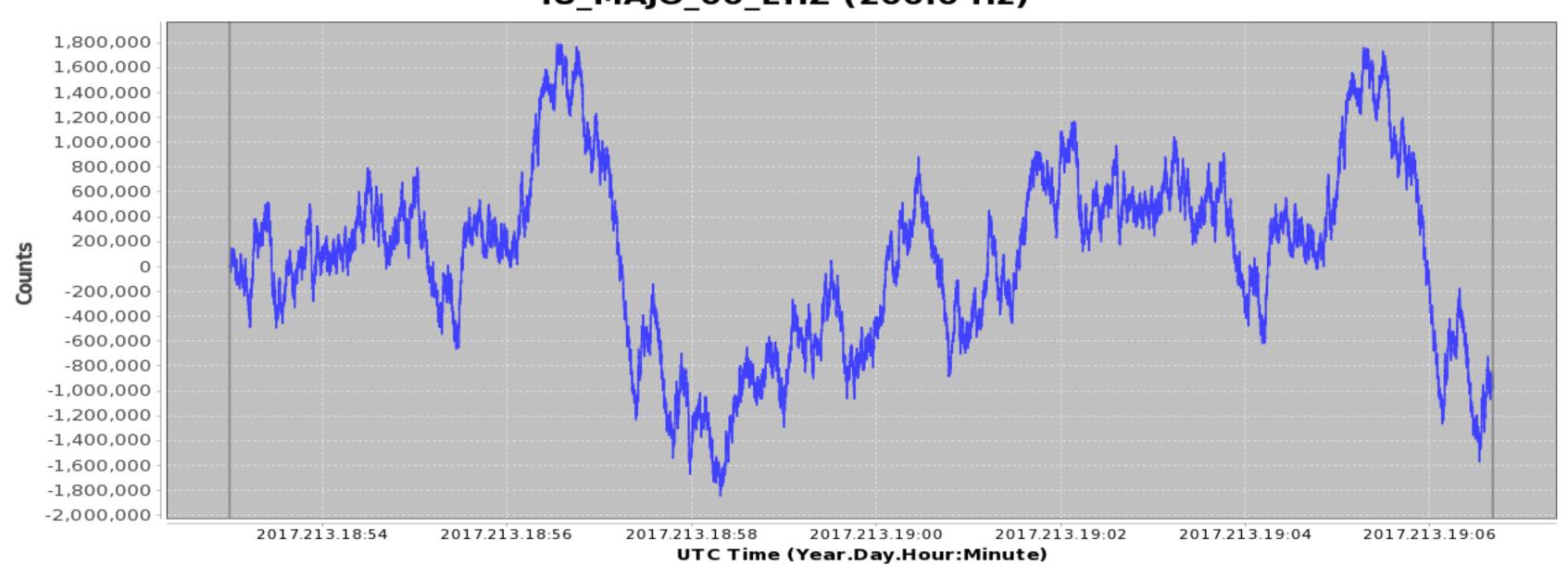
#### POLE VARIABLES, AS CSV:

Init	Fit	Diff	Mean	PctDiff
-39.18	-33.929	-5.251	-36.5545	+15.4763
+49.12	+68.9244	-19.8044	+59.0222	-28.7335

## IU\_MAJO\_CB\_BC0 (200.0 Hz)



### IU\_MAJO\_00\_EHZ (200.0 Hz)



Response name: STS-1\_Q330HR\_BH\_20

Gain stage values:

0: 4,026,530,000

1: 2,400

2: 1,677,721

Normalization: 3948.58

Normalization frequency (Hz): 0.02

Transfer function is LAPLACIAN

Response input units: velocity (m/s)

Response zeros:

0: 0

1: 0

Response poles:

0: -0.0123 + 0.0123i

1: -0.0123 - 0.0123i

2: -39.18 + 49.12i

3: -39.18 - 49.12i