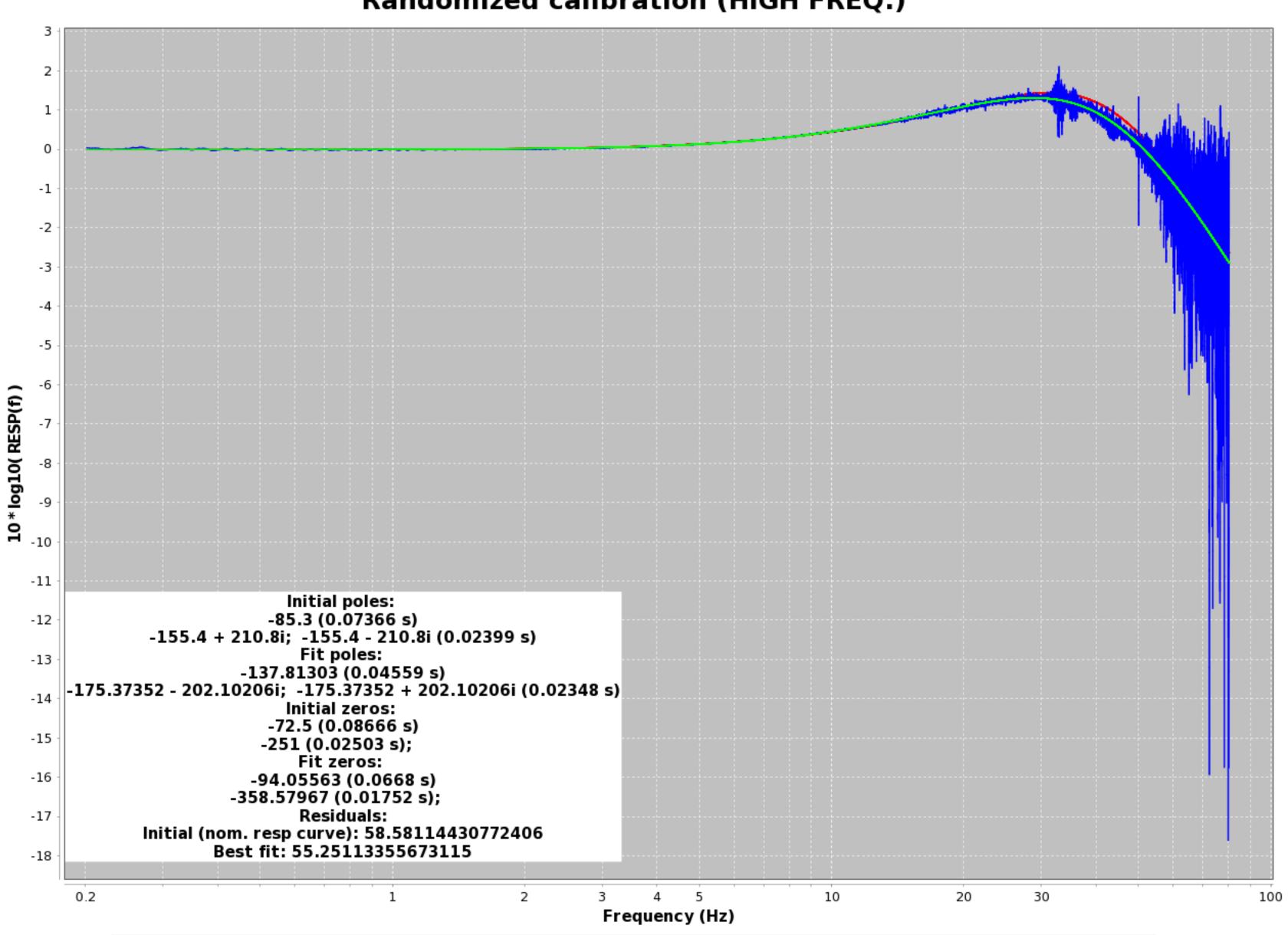
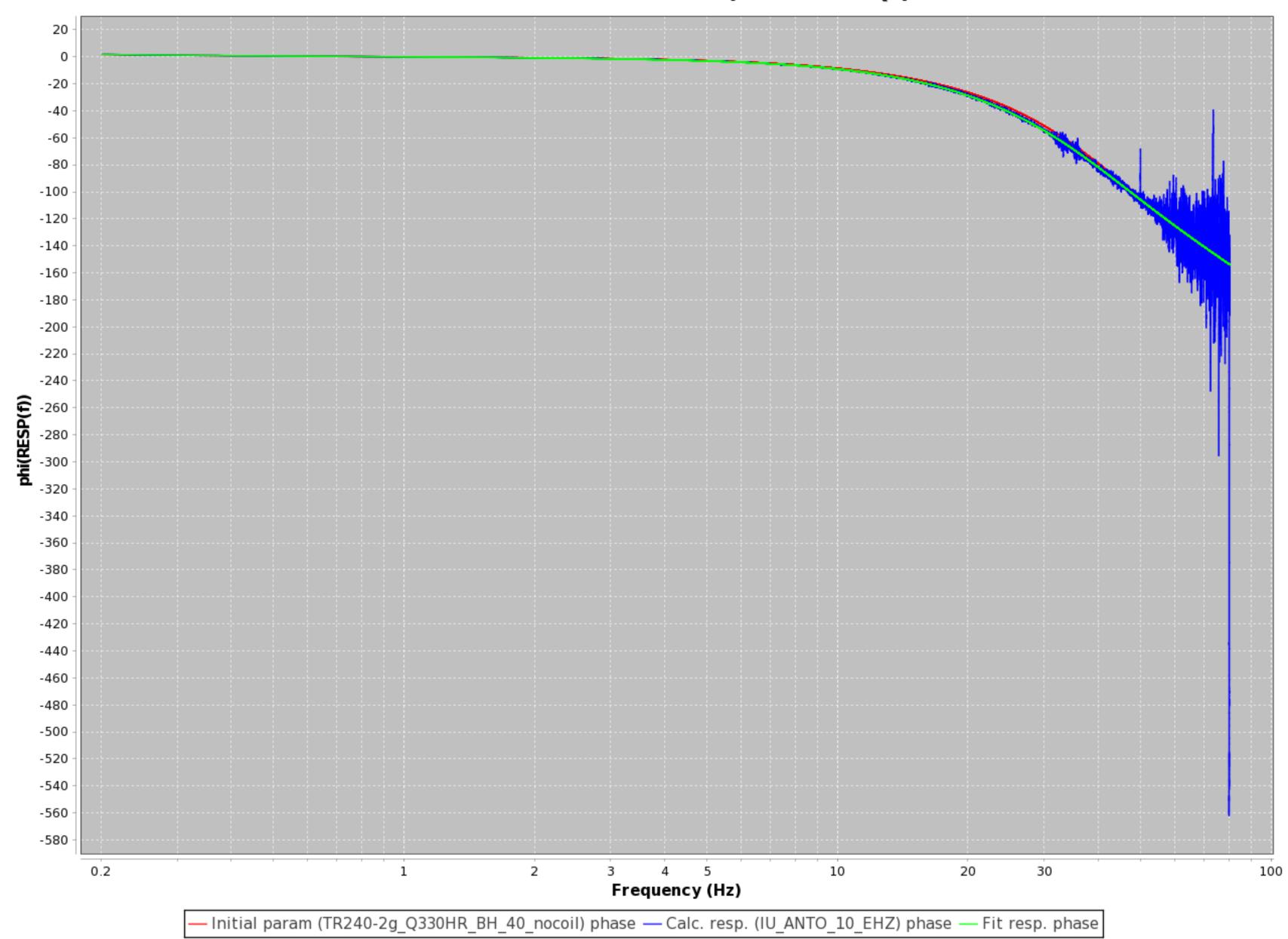
# Randomized calibration (HIGH FREQ.)

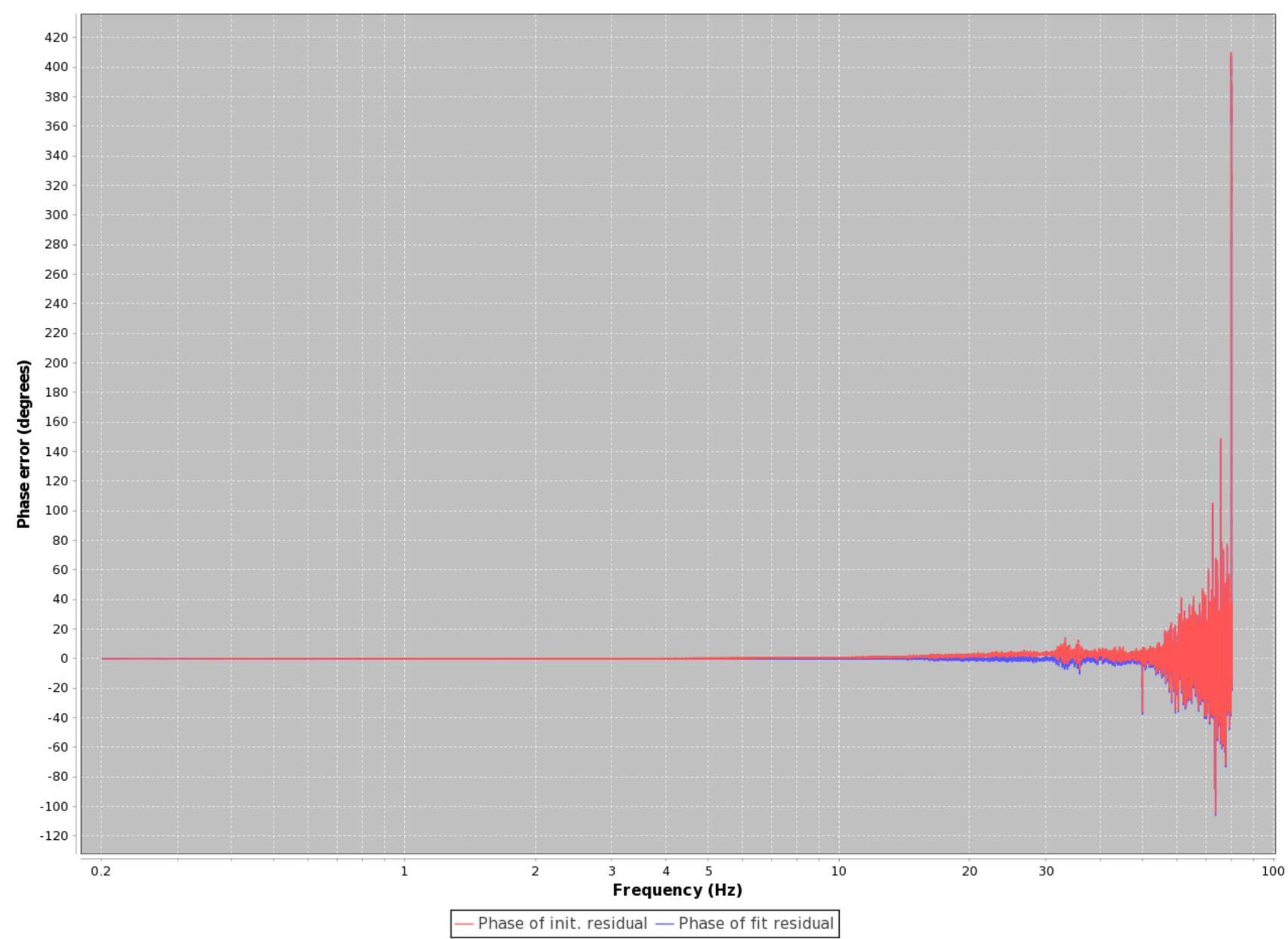


Initial param (TR240-2g\_Q330HR\_BH\_40\_nocoil) magnitude — Calc. resp. (IU\_ANTO\_10\_EHZ) magnitude — Fit resp. magnitude

## Randomized calibration (HIGH FREQ.)



## **Randomized calibration** 3,200 3,100 3,000 2,900 2,800 2,700 2,600 2,500 2,400 2,300 2,200 2,100 2,000 Water Property (No. 1,900) 1,700 1,600 1,500 1,300 1,200 1,100 1,000 900 800 700 600 500 400 300 200 100 0 -100 -200 100 0.2 2 3 10 20 30 1 4 5 Frequency (Hz) Amplitude of init. residual — Amplitude of fit residual Randomized calibration 420 400 380 360 340 320 300 280 260 240



```
Initial poles:
-85.3 (0.07366 s)
-155.4 + 210.8i; -155.4 - 210.8i (0.02399 s)
Fit poles:
-137.81303 (0.04559 s)
-175.37352 - 202.10206i; -175.37352 + 202.10206i (0.02348 s)
Initial zeros:
-72.5 (0.08666 s)
-251 (0.02503 s);
Fit zeros:
-94.05563 (0.0668 s)
-358.57967 (0.01752 s);
Residuals:
Initial (nom. resp curve): 58.58114430772406
Best fit: 55.25113355673115
Iteration count from solver: 11
Input filenames, with SEED and RESP files paired as appropriate:
IU_ANTO_CB_BC1
IU_ANTO_10_EHZ
TR240-2g_Q330HR_BH_40_nocoil
Residuals weighting:
    Amplitude: 475.1802115030698
    Phase: 1.0
Time of report generation:
2017.235.17:56:25
Data start time:
2017.158.04:21:38
Data end time:
2017.158.04:35:01
```

### POLE VARIABLES, AS CSV:

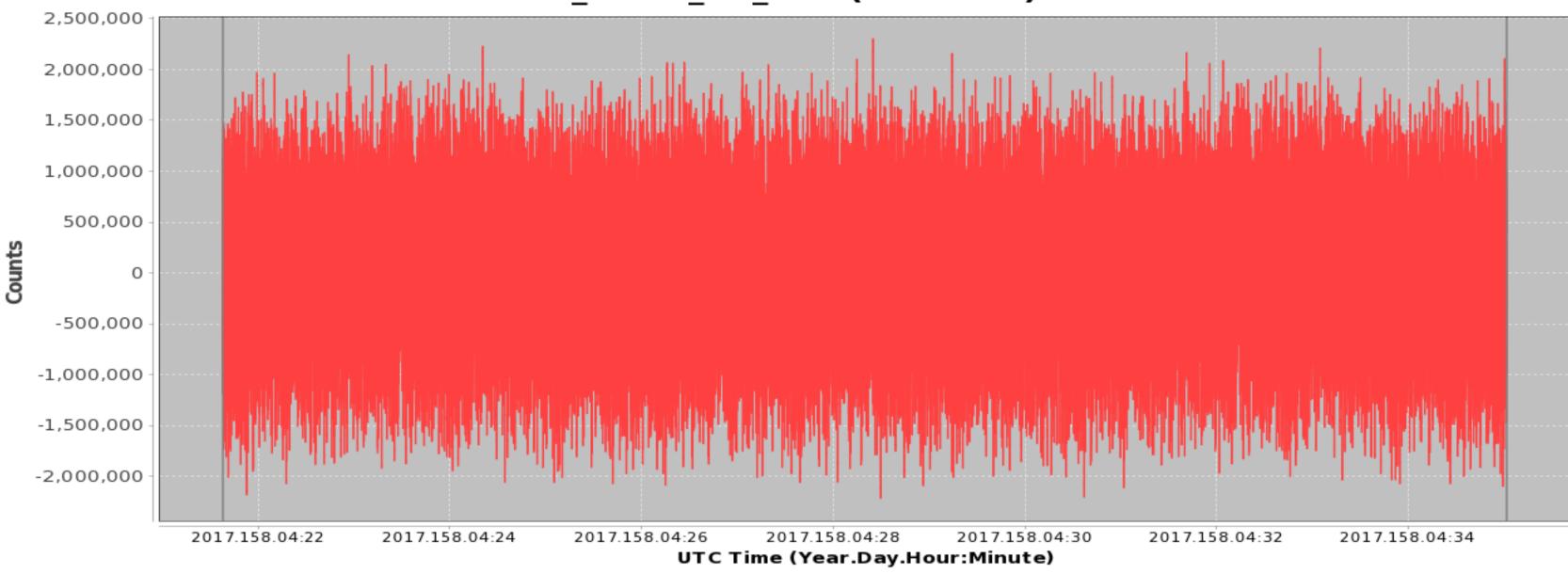
Fit Diff Mean PctDiff Init -85.3 -137.813 +52.513 -111.5565-38.1045 +0 +0 +0 +0 +0 -155.4 -175.3735+19.9735 -165.3868-11.3891 +210.8 +202.1021+8.6979 +206.451 +4.3037 ZERO VARIABLES, AS CSV: Init Fit Diff Mean PctDiff -72.5 -94.0556 +21.5556 -83.2778 -22.918 +0 +0 +0 +0

-251 -358.5797+107.5797-304.7898-30.0016

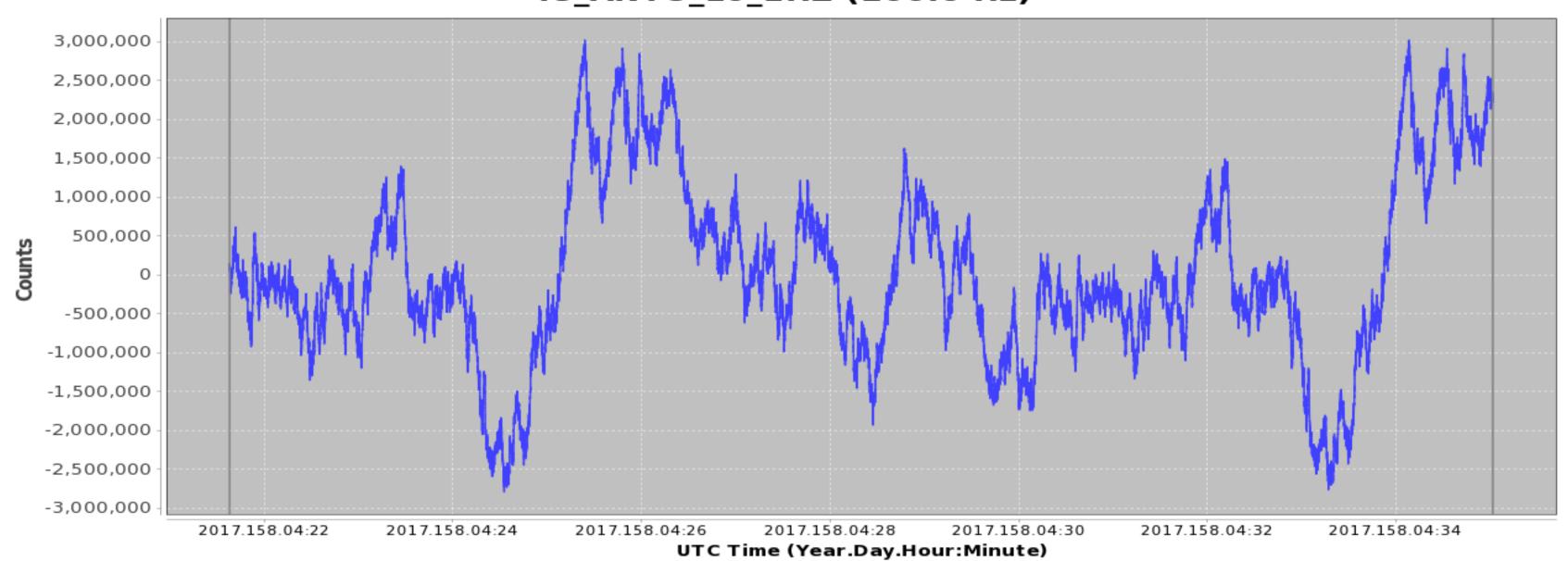
+0

+0 +0 +0 +0

### IU\_ANTO\_CB\_BC1 (200.0 Hz)



### IU\_ANTO\_10\_EHZ (200.0 Hz)



```
Response name: TR240-2g_Q330HR_BH_40_nocoil
```

#### Gain stage values:

- 0: 1,994,810,269
- 1: 1,189
- 2: 1,677,721

#### Normalization: 2.46316029129E23

Transfer function is LAPLACIAN

Response input units: velocity (m/s)

#### Response zeros:

- 0: 0
- 1: 0
- 2: -72.5
- 3: -251

### Response poles:

- 0: -0.0177 + 0.0176i
- 1: -0.0177 0.0176i
- 2: -85.3
- 3: -155.4 + 210.8i
- 4: -155.4 210.8i
- 5: -713
- 6: -1,140
- 7: -4,300
- 8: -5,800
- 9: -4,300 + 4,400i
- 10: -4,300 4,400i