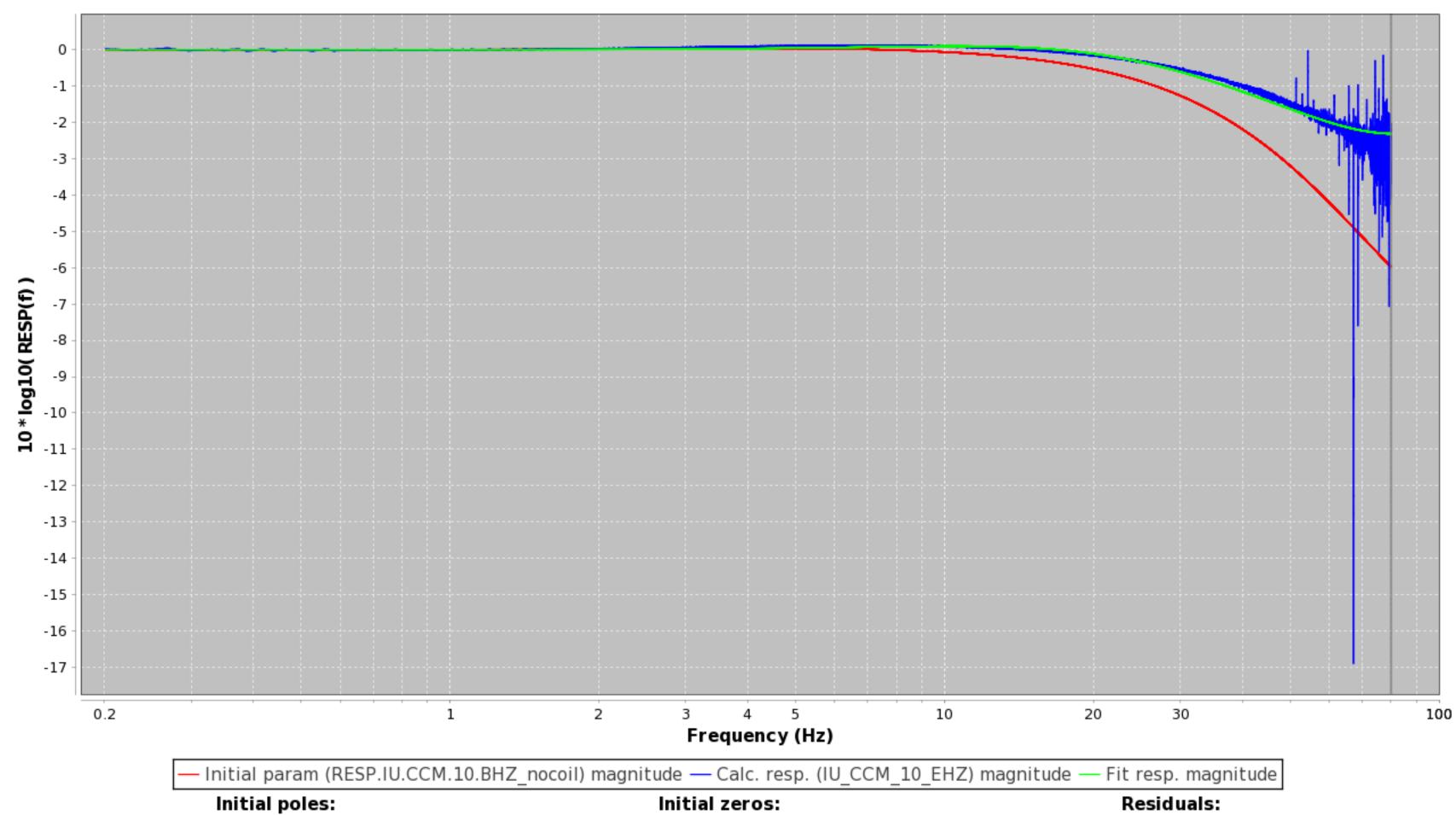
Randomized calibration (HIGH FREQ.)



-501.105 (0.01254), -501.105 (0.01254) -501.105 (0.01254), -501.105 (0.01254) -501.105 (0.01254), -501.105 (0.01254) -351.858 (0.01786), -22.3068 (0.28167) -22.3068 (0.28167), Fit poles: -351.858 (0.01786), -21.9911 (0.28571) -21.9911 (0.28571), Fit zeros:

Initial (nom. resp curve): 3355.4917583182933 Best fit: 853.950005750879

Residuals:

Initial (nom. resp curve): 3355.4917583182933

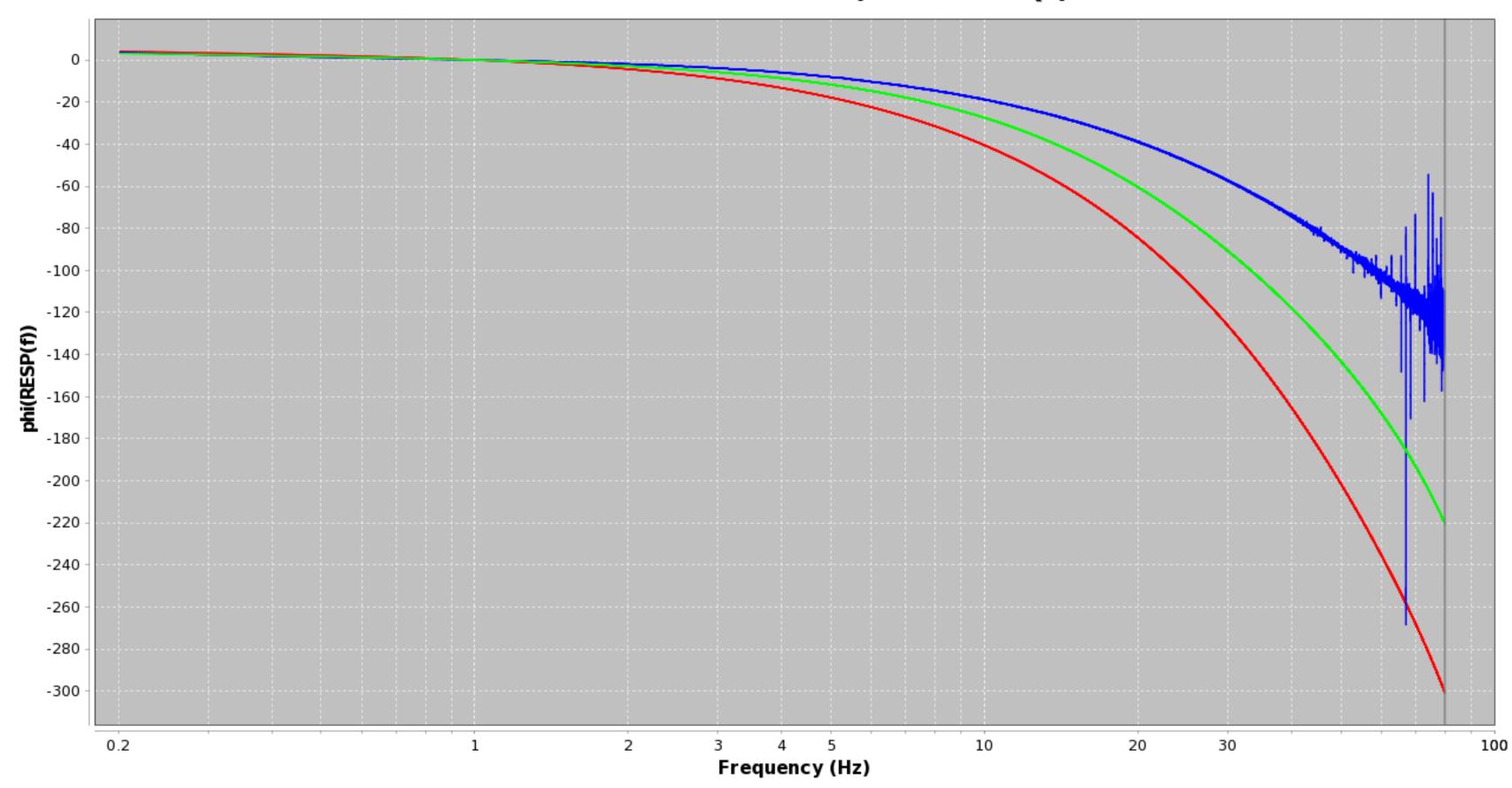
Best fit: 853.950005750879

-447.93569 (0.01403), -90.59966 (0.06935) -90.59966 (0.06935),

-940.19321 (0.00668), -940.19321 (0.00668) -940.19321 (0.00668), -940.19321 (0.00668) -940.19321 (0.00668), -940.19321 (0.00668) -169.62729 (0.03704), -104.14335 (0.06033) -104.14335 (0.06033),

NUMBER OF ITERATIONS: 84

Randomized calibration (HIGH FREQ.)



— Initial param (RESP.IU.CCM.10.BHZ nocoil) phase — Calc. resp. (IU CCM 10 EHZ) phase — Fit resp. phase

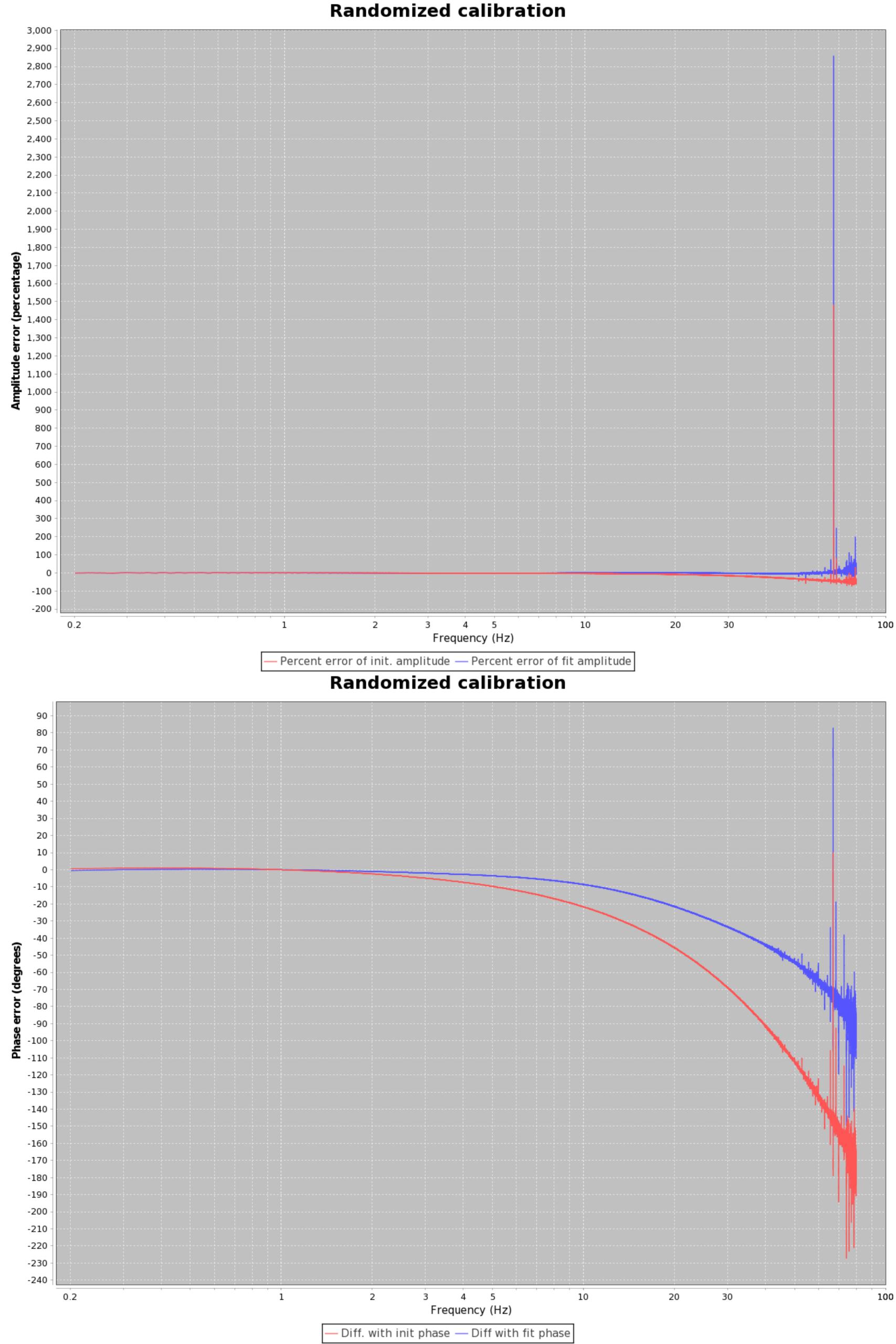
Initial poles:
-501.105 (0.01254), -501.105 (0.01254)
-501.105 (0.01254), -501.105 (0.01254)
-501.105 (0.01254), -501.105 (0.01254)
-351.858 (0.01786), -22.3068 (0.28167)
-22.3068 (0.28167),
Fit poles:
-940.19321 (0.00668), -940.19321 (0.00668)

-940.19321 (0.00668), -940.19321 (0.00668)

Initial zeros: -351.858 (0.01786), -21.9911 (0.28571) -21.9911 (0.28571), Fit zeros:

-447.93569 (0.01403), -90.59966 (0.06935) -90.59966 (0.06935),

-169.62729 (0.03704), -104.14335 (0.06033) -104.14335 (0.06033), NUMBER OF ITERATIONS: 84

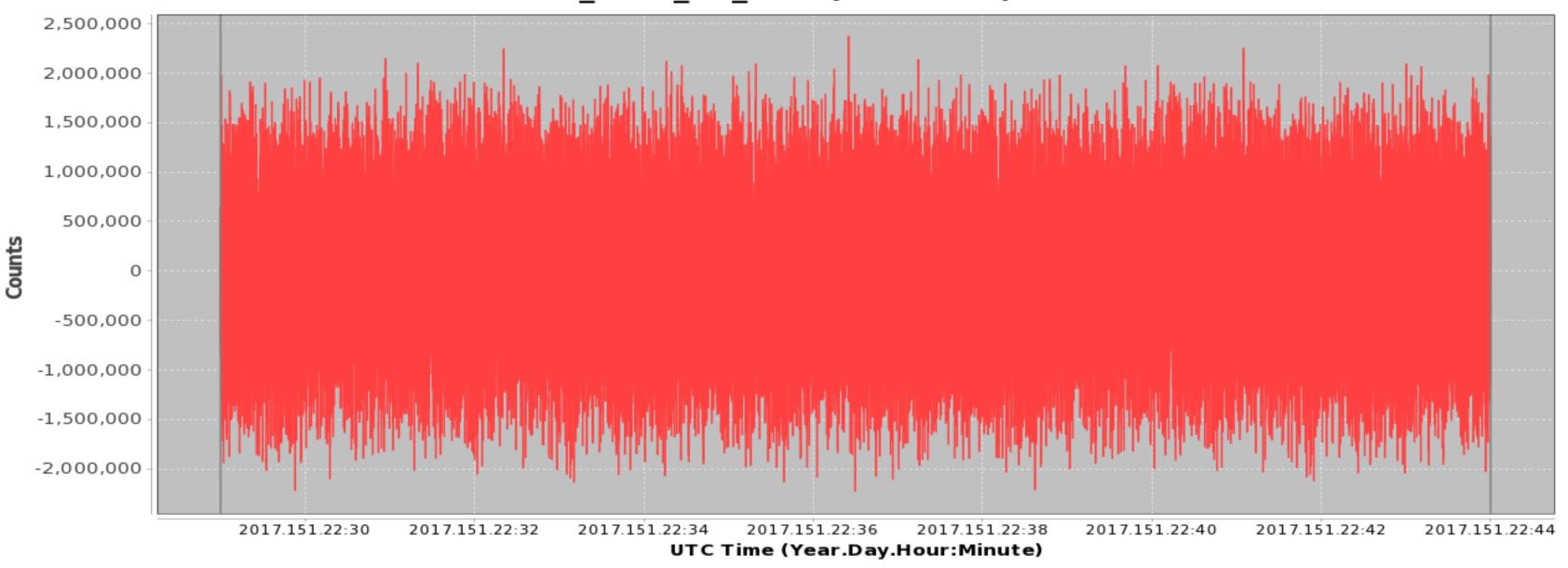


```
Initial poles:
-501.105 (0.01254), -501.105 (0.01254)
-501.105 (0.01254), -501.105 (0.01254)
-501.105 (0.01254), -501.105 (0.01254)
-351.858 (0.01786), -22.3068 (0.28167)
-22.3068 (0.28167),
Fit poles:
-940.19321 (0.00668), -940.19321 (0.00668)
-940.19321 (0.00668), -940.19321 (0.00668)
-940.19321 (0.00668), -940.19321 (0.00668)
-169.62729 (0.03704), -104.14335 (0.06033)
-104.14335 (0.06033),
Initial zeros:
-351.858 (0.01786), -21.9911 (0.28571)
-21.9911 (0.28571),
Fit zeros:
-447.93569 (0.01403), -90.59966 (0.06935)
-90.59966 (0.06935),
Residuals:
Initial (nom. resp curve): 3355.4917583182933
Best fit: 853.950005750879
Iteration count from solver: 84
Input filenames, with SEED and RESP files paired as appropriate:
IU_CCM_10_BC1
IU CCM 10 EHZ
RESP.IU.CCM.10.BHZ nocoil
Residuals weighting:
    Amplitude: 7977.814777435791
    Phase: 0.33415428890411153
Time of report generation:
2017.313.19:04:18
Data start time:
2017.151.22:28:59
Data end time:
2017.151.22:44:00
```

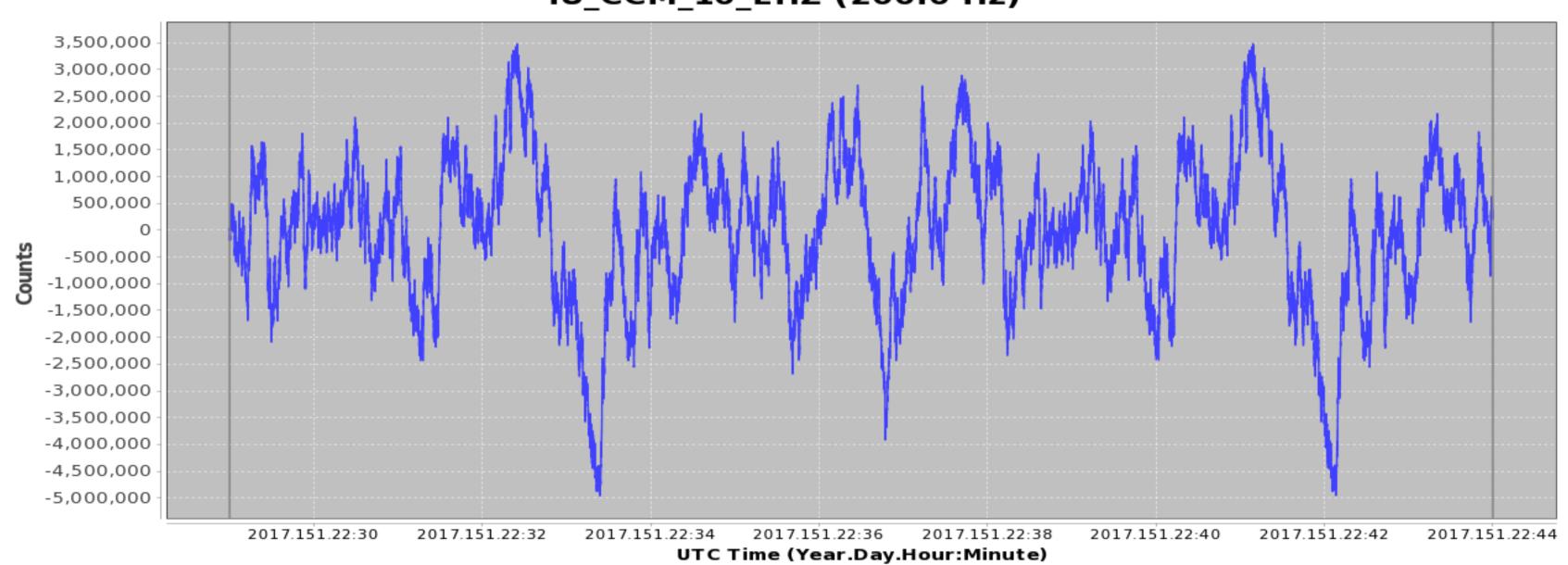
```
POLE VARIABLES, AS CSV:
```

TODE VIRCINDEDS / TIS OS V				
Init	Fit	Diff	Mean	PctDiff
-501.105	-940.1932+439.0882-720.6491-46.7019			
+0	+0	+0	+0	+0
-501.105	-940.1932	2+439.088	2-720.6493	1-46.7019
+0	+0	+0	+0	+0
-501.105	-940.1932	2+439.088	2-720.6493	1-46.7019
+0	+0	+0	+0	+0
-501.105	-940.1932	2+439.088	2-720.6493	1-46.7019
+0	+0	+0	+0	+0
-501.105	-940.1932+439.0882-720.6491-46.7019			
+0	+0	+0	+0	+0
-501.105	-940.1932	2+439.088	2-720.6493	1-46.7019
+0	+0	+0	+0	+0
-351.858	-169.6273-182.2307-260.7426+107.4301			
+0	+0	+0	+0	+0
-22.3068	-104.1433	3+81.8365	-63.2251	-78.5807
+0	+0	+0	+0	+0
-22.3068	-104.1433	3+81.8365	-63.2251	-78.5807
+0	+0	+0	+0	+0
ZERO VARIABLES, AS CSV:				
Init	Fit	Diff	Mean	PctDiff
-351.858	-447.9357+96.0777		-399.8968-21.449	
+0	+0	+0	+0	+0
-21.9911	-90.5997	+68.6086	-56.2954	-75.7272
+0	+0	+0	+0	+0
-21.9911	-90.5997	+68.6086	-56.2954	-75.7272
+0	+0	+0	+0	+0

IU_CCM_10_BC1 (200.0 Hz)



IU_CCM_10_EHZ (200.0 Hz)



```
Response name: RESP.IU.CCM.10.BHZ_nocoil
Gain stage values:
0: 1,993,130,000
1: 1,188
2: 1,677,720
3: 1
Normalization: 9.82411E12
Normalization frequency (Hz): 0.02
Transfer function is LAPLACIAN
Response input units: velocity (m/s)
Response zeros:
0:0
1: 0
2: -21.9911
3: -21.9911
4: -351.858
Response poles:
0: -0.0123 + 0.0121i
1: -0.0123 - 0.0121i
2: -22.3068
3: -22.3068
4: -351.858
5: -501.105
6: -501.105
7: -501.105
8: -501.105
9: -501.105
10: -501.105
```

11: -121.58 + 647.231i 12: -121.58 - 647.231i