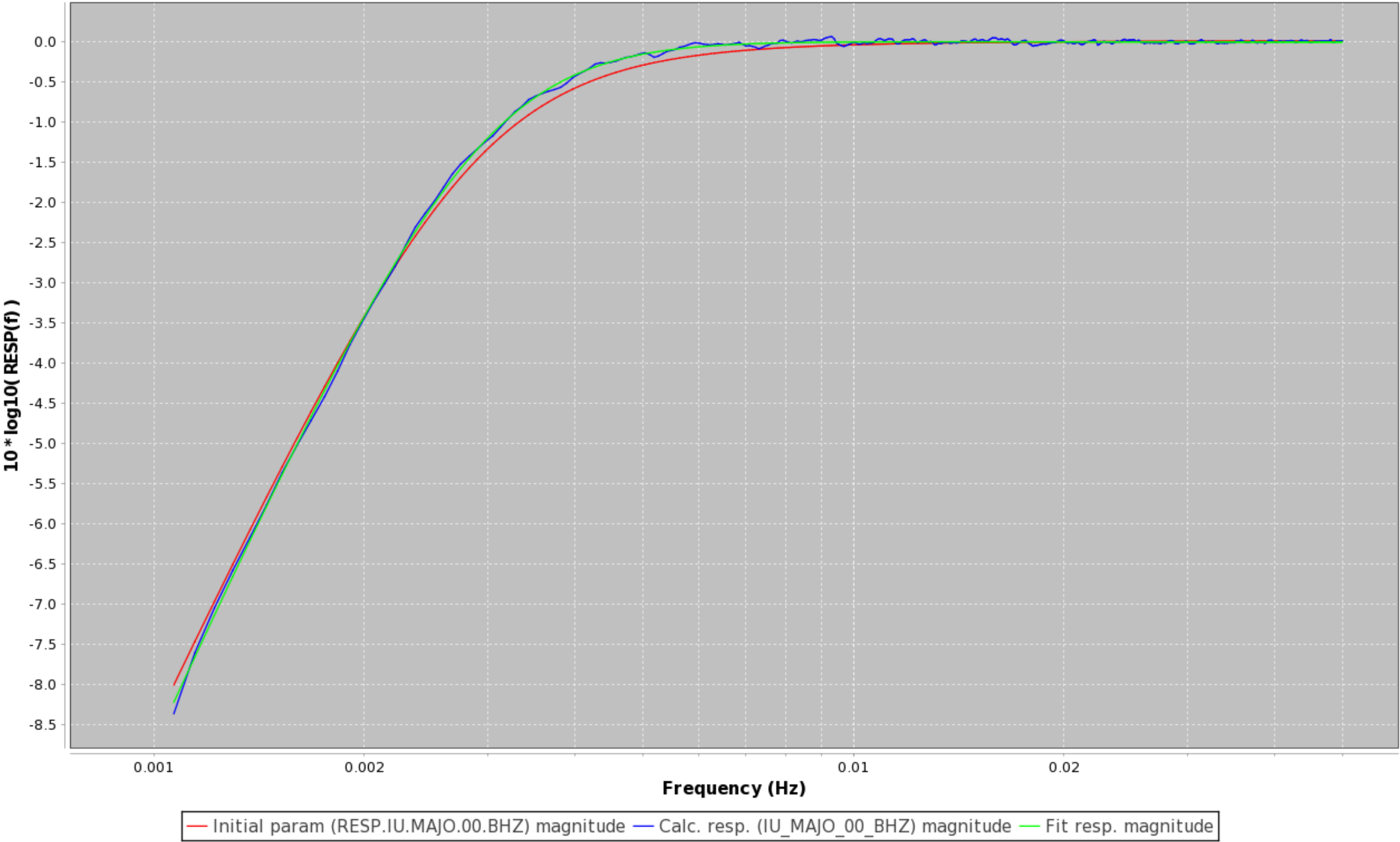


Randomized calibration (LOW FREQ.)

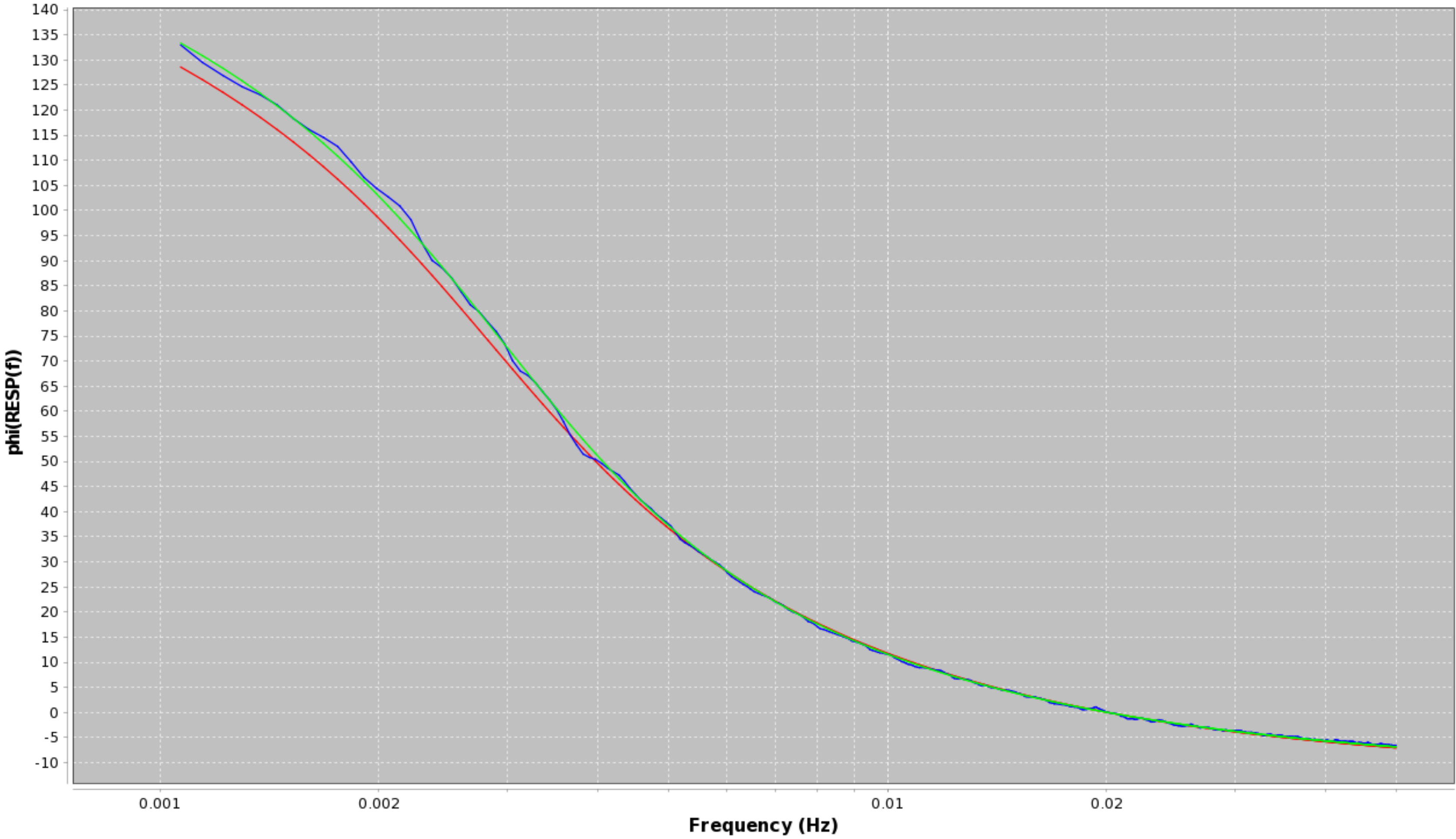


Initial param (RESP.IU.MAJO.00.BHZ) magnitude Calc. resp. (IU_MAJO_00_BHZ) magnitude Fit resp. magnitude

Initial poles: -0.00773 (812.52954 s) -0.01265 + 0.01234i; -0.01265 - 0.01234i (355.59736 s) -0.01902 (330.35318 s) Fit poles: -0.01173 (535.62645 s) -0.013 - 0.01373i; -0.013 + 0.01373i (332.40549 s) -0.0254 (247.40703 s)	Initial zeros: -0.01357 (462.98958 s) -0.01357 (462.98958 s); Fit zeros: -0.01949 (322.43409 s) -0.01949 (322.43409 s);	Residuals: Initial (nom. resp curve): 2767.3700765426265 Best fit: 1083.5472836511426
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NUMBER OF ITERATIONS: 23

Randomized calibration (LOW FREQ.)

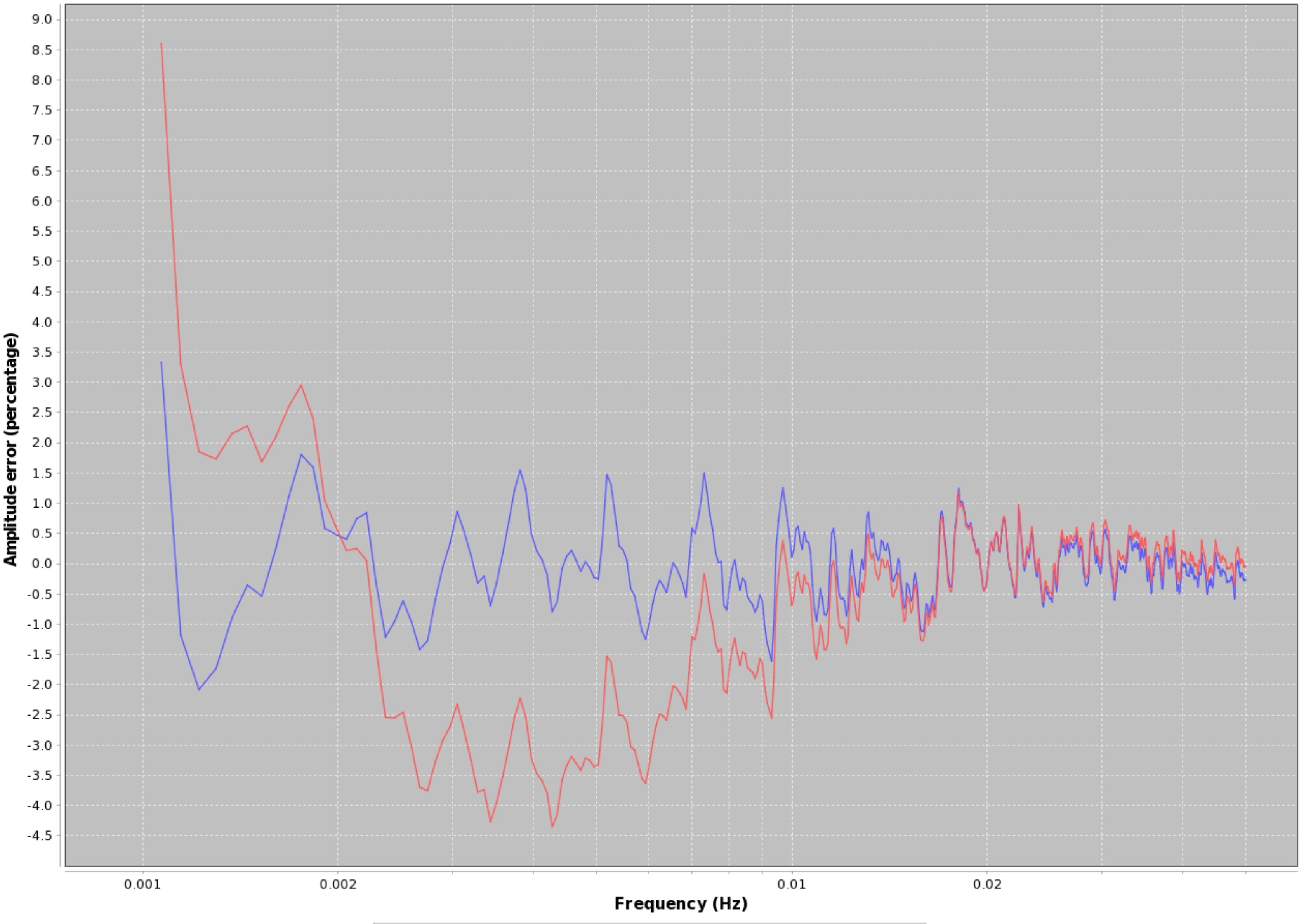


Initial param (RESP.IU.MAJO.00.BHZ) phase Calc. resp. (IU_MAJO_00_BHZ) phase Fit resp. phase

Initial poles: -0.00773 (812.52954 s) -0.01265 + 0.01234i; -0.01265 - 0.01234i (355.59736 s) -0.01902 (330.35318 s) Fit poles: -0.01173 (535.62645 s) -0.013 - 0.01373i; -0.013 + 0.01373i (332.40549 s) -0.0254 (247.40703 s)	Initial zeros: -0.01357 (462.98958 s) -0.01357 (462.98958 s); Fit zeros: -0.01949 (322.43409 s) -0.01949 (322.43409 s);	Residuals: Initial (nom. resp curve): 2767.3700765426265 Best fit: 1083.5472836511426
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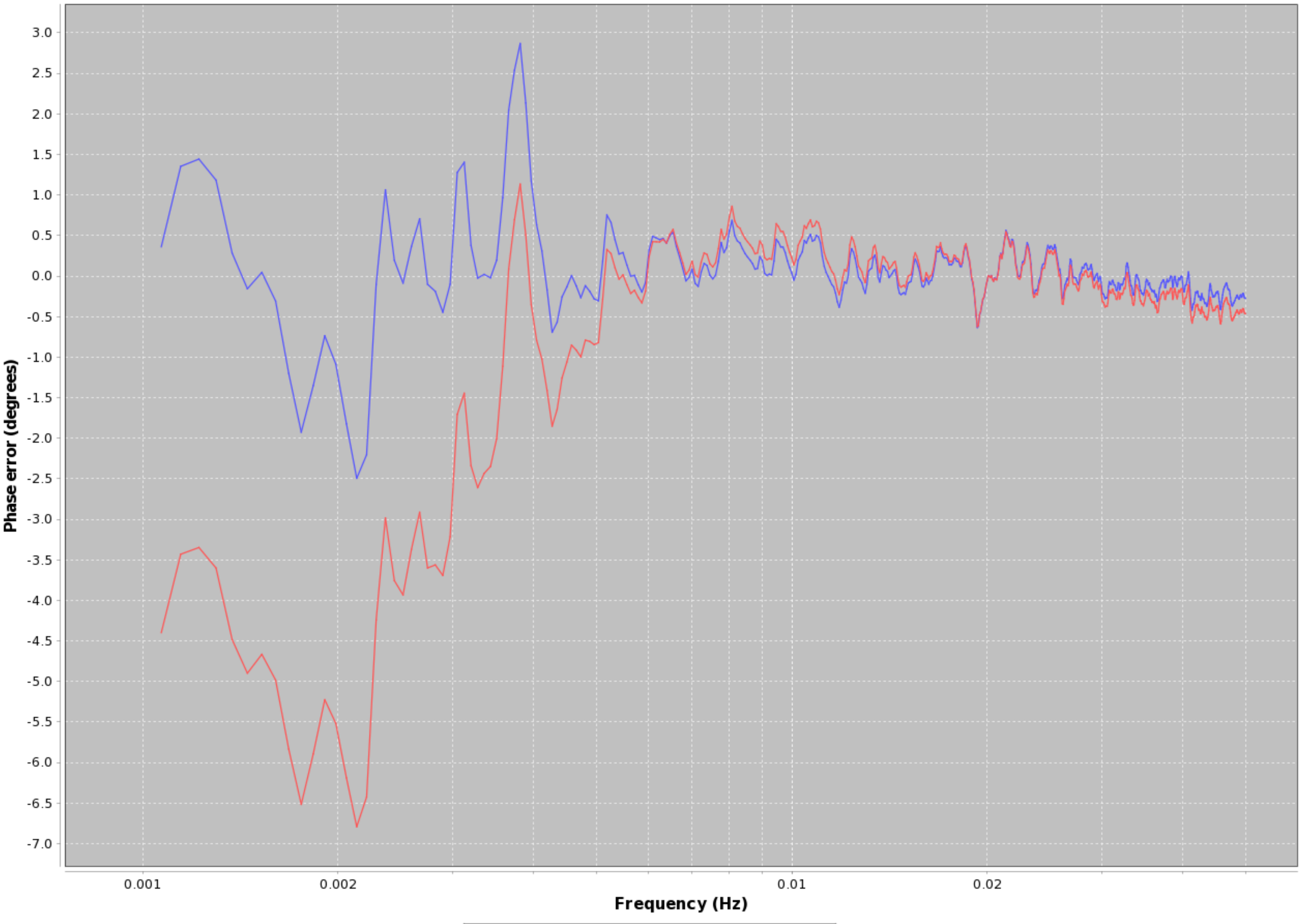
NUMBER OF ITERATIONS: 23

Randomized calibration



Percent error of init. amplitude Percent error of fit amplitude

Randomized calibration



Diff. with init phase Diff with fit phase

Initial poles:

-0.00773 (812.52954 s)

-0.01265 + 0.01234i; -0.01265 - 0.01234i (355.59736 s)

-0.01902 (330.35318 s)

Fit poles:

-0.01173 (535.62645 s)

-0.013 - 0.01373i; -0.013 + 0.01373i (332.40549 s)

-0.0254 (247.40703 s)

Initial zeros:

-0.01357 (462.98958 s)

-0.01357 (462.98958 s);

Fit zeros:

-0.01949 (322.43409 s)

-0.01949 (322.43409 s);

Residuals:

Initial (nom. resp curve): 2767.3700765426265

Best fit: 1083.5472836511426

Iteration count from solver: 23

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

IU_MAJO_ _BC0

IU_MAJO_00_BHZ

RESP.IU.MAJO.00.BHZ

Residuals weighting:

Amplitude: 15058.198051425337

Phase: 0.4308749882176093

Time of report generation:

2017.250.15:25:38

Data start time:

2017.213.23:34:28

Data end time:

2017.214.07:38:03

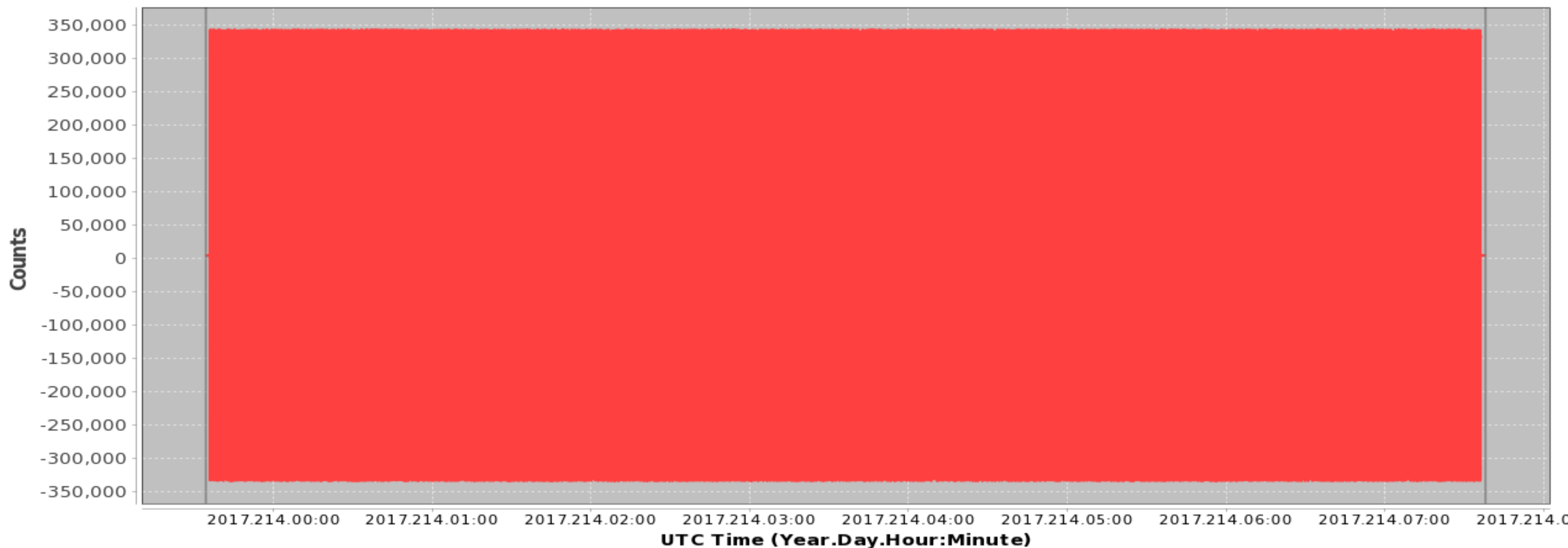
POLE VARIABLES, AS CSV:

Init	Fit	Diff	Mean	PctDiff
-0.0077	-0.0117	+0.004	-0.0097	-34.0791
+0	+0	+0	+0	+0
-0.0126	-0.013	+0.0003	-0.0128	-2.687
+0.0123	+0.0137	-0.0014	+0.013	-10.0985
-0.019	-0.0254	+0.0064	-0.0222	-25.1083
+0	+0	+0	+0	+0

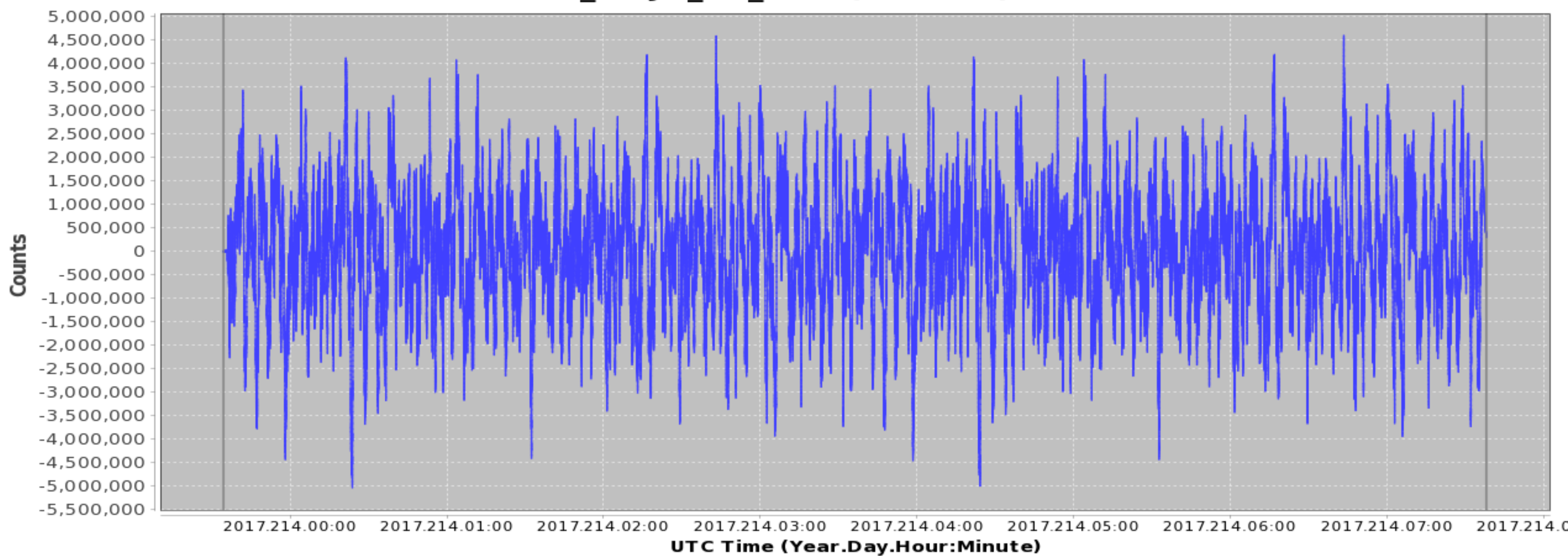
ZERO VARIABLES, AS CSV:

Init	Fit	Diff	Mean	PctDiff
-0.0136	-0.0195	+0.0059	-0.0165	-30.3582
+0	+0	+0	+0	+0
-0.0136	-0.0195	+0.0059	-0.0165	-30.3582
+0	+0	+0	+0	+0

IU_MAJO_ _BC0 (20.0 Hz)



IU_MAJO_00_BHZ (20.0 Hz)



Response name: RESP.IU.MAJO.00.BHZ

Gain stage values:

0: 6,007,140,000

1: 3,580.54

2: 1,677,720

3: 1

4: 1

5: 1

6: 1

Normalization: 3949.21

Normalization frequency (Hz): 0.05

Transfer function is LAPLACIAN

Response input units: velocity (m/s)

Response zeros:

0: 0

1: 0

2: -0.0136

3: -0.0136

Response poles:

0: -0.0077

1: -0.0126 + 0.0123i

2: -0.0126 - 0.0123i

3: -0.019

4: -39.18 + 49.12i

5: -39.18 - 49.12i