

The revised manuscript presents a case study for a recently proposed method for frequency-dependent site amplification factor estimation. The authors design the casual recursive infinite impulse response filter to model site amplification factor and simulate the spectra and accelerograms at target locations and evaluate the performance of this method. The idea is interesting and falls into the interests of journal's readers but there are a few spelling mistakes and typos that need to be checked before publication.

My suggestions are:

1: pay attention to the letter lower case or upper case, in Page 2, line 16, "Filter " should be "filter".

2: There is something wrong with the reference citation, Page4, line5, "(e.g., Iwata and Irikura (1988))" should be "(Iwata and Irikura, 1988)"

3: Page4, line 14 and 17, "the first and second-order filters " should be "the first-order and second-order filters".

4: Page5, line 16, " around 25HZ (Figure 3(c)).The Spectral ratios " should be " around 25Hz (Figure 3(c)).The spectral ratios".

5: Page5, line 19, " around 3HZ" should be "around 3Hz".

6: Page 5, the figure caption "spectra ratio for every for every event" should be " spectra ratio for every event"