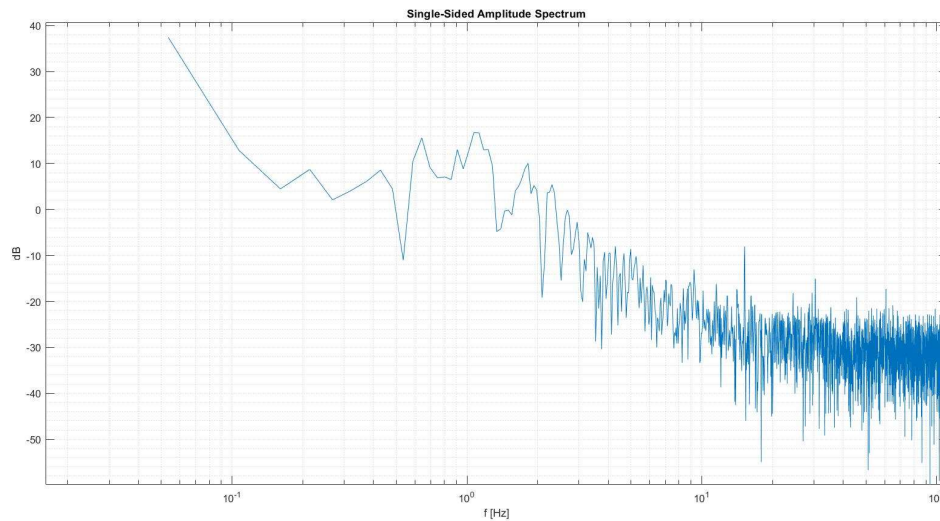


## Control Filter

Due to the noise in the control signal in Max (see the image below, it shows the FFT of 4000 samples obtained from the x-axis), it is possible to implement a filter to smooth the movements.



It has been chosen a one pole elliptic filter to cut frequency above 100 hz (close to the upper limit of the sensor acquisition band, 220 hz).

See the project on Max (Ellipticfilter.maxpat). needless to say it should be improved

