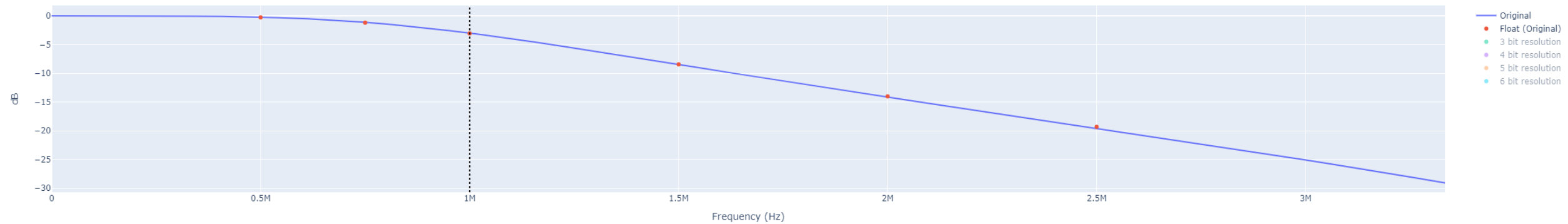


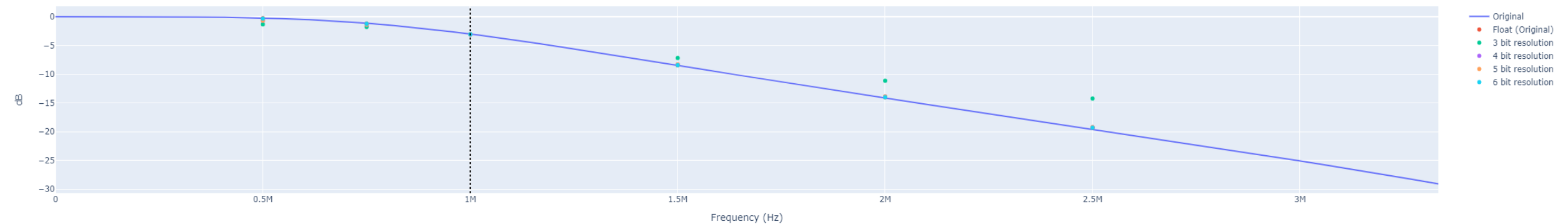
# Effect of Bit Resolution on Low Pass Filter

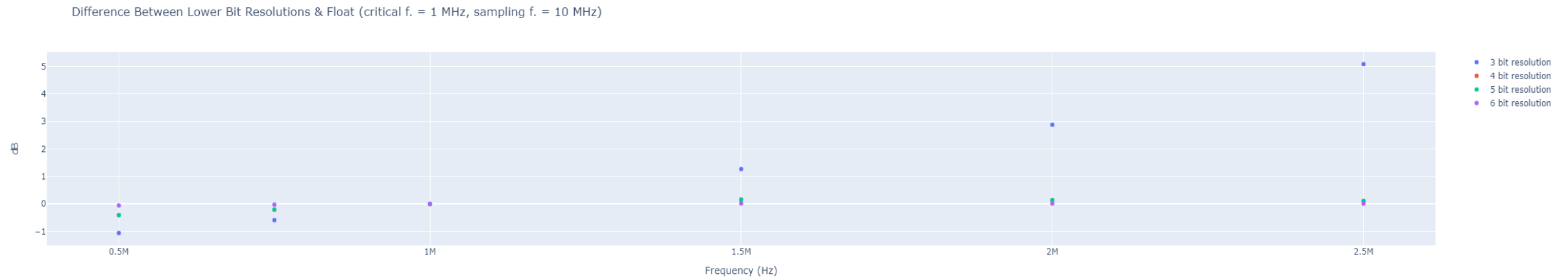
David Nguyen

Frequency Response of Low Pass Filter (critical f. = 1 MHz, sampling f. = 10 MHz)



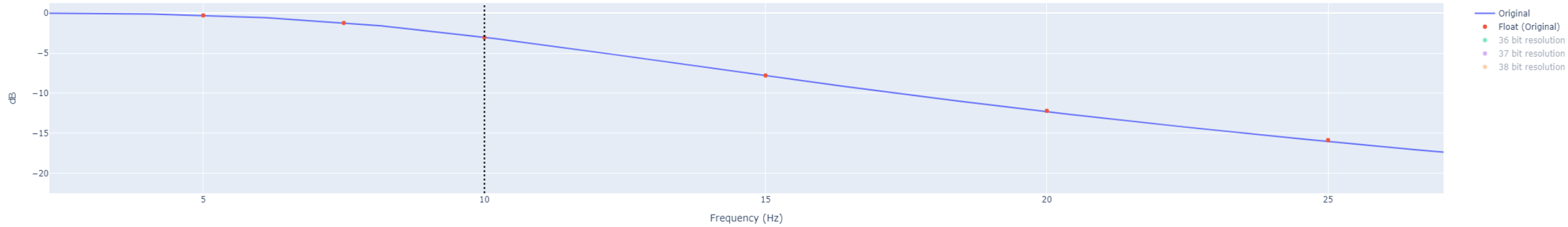
Frequency Response of Low Pass Filter (critical f. = 1 MHz, sampling f. = 10 MHz)



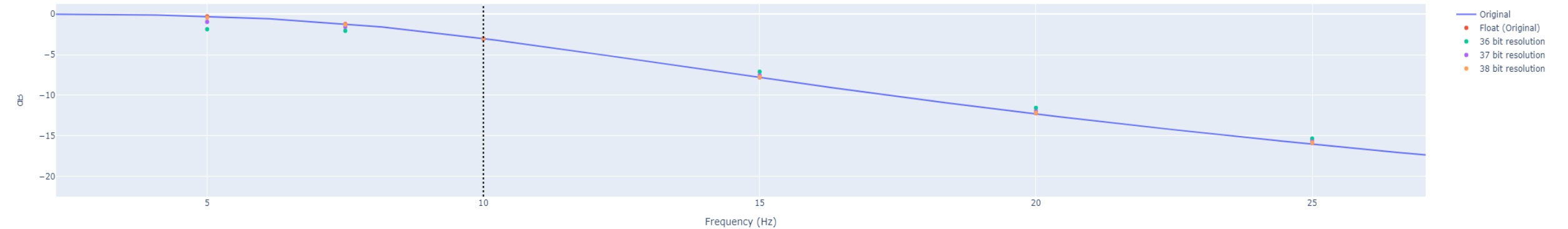


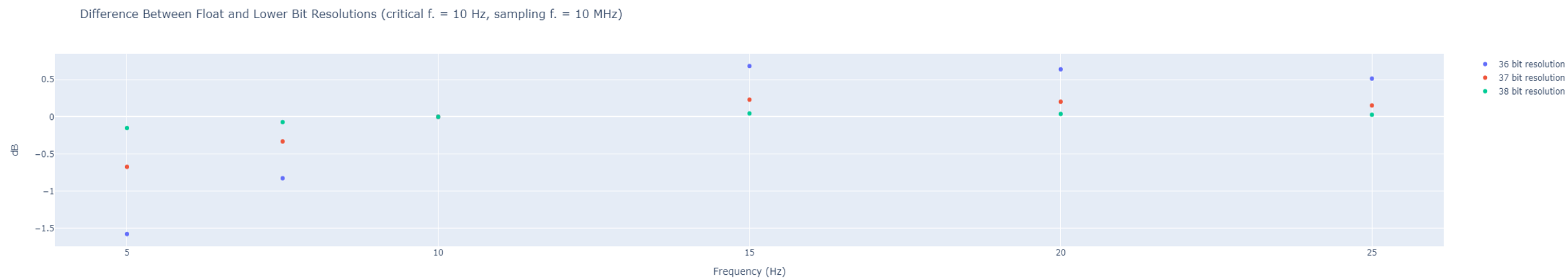
Bit Resolution	Slope (dB/decade)
Float	-40.4800
3	-28.1308
4	-40.2068
5	-40.2068
6	-40.4479

Frequency Response of Low Pass Filter (critical f. = 10 Hz, sampling f. = 10 MHz)



Frequency Response of Low Pass Filter (critical f. = 10 Hz, sampling f. = 10 MHz)





Bit Resolution	Slope (dB/decade)
Float	-32.1674
36	-30.8629
37	-31.7793
38	-32.0971