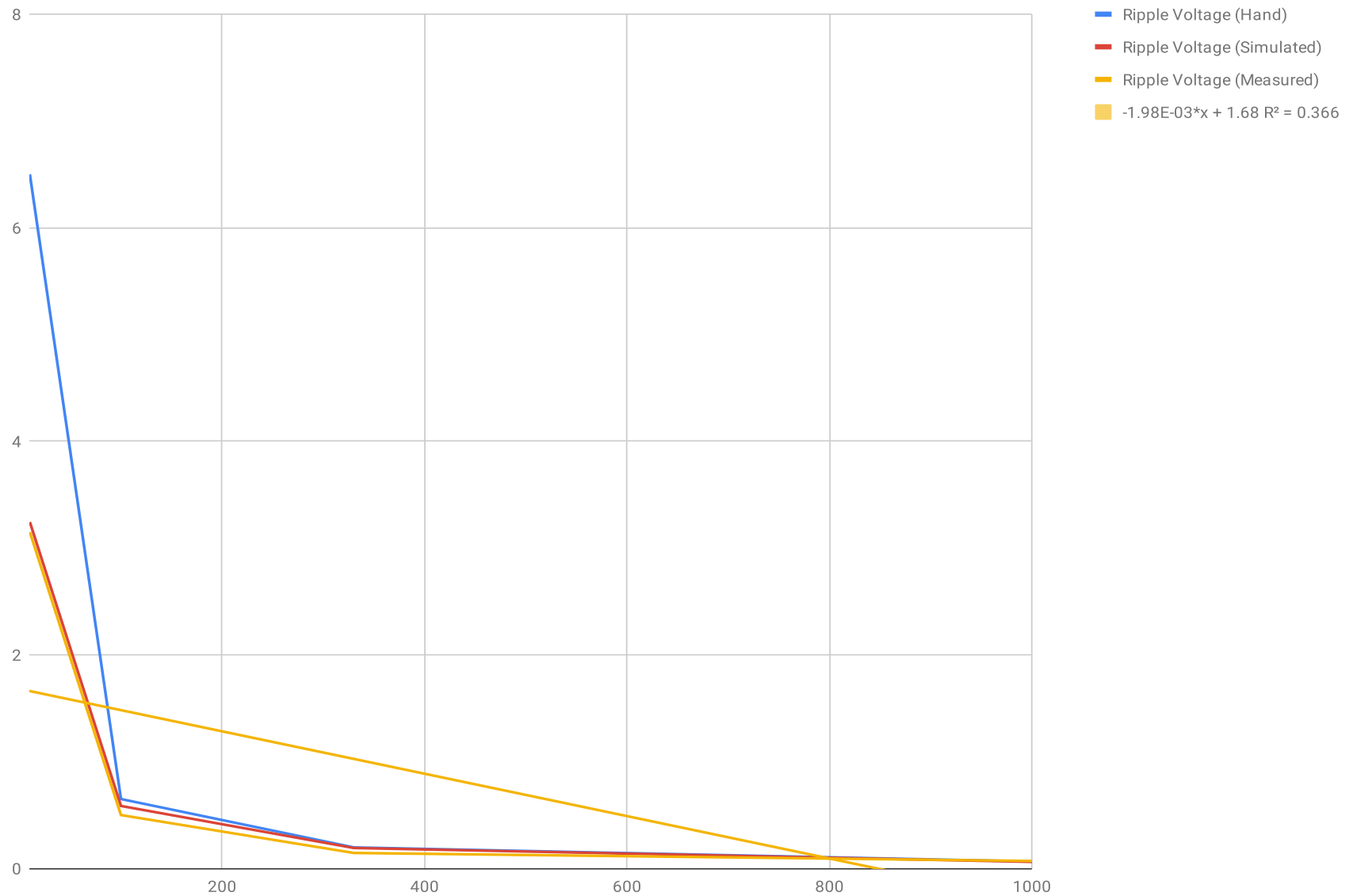


<b>Part 1 - Half Wave Rectifier</b>				
<b>Frequency</b>	<b>Capacitor</b>	<b>Ripple Voltage (Hand)</b>	<b>Ripple Voltage (Simulated)</b>	<b>Ripple Voltage (Measured)</b>
60	10	6.5	3.2439	3.15
60	100	0.65	0.5852	0.5
60	330	0.197	0.1914	0.145
60	1000	0.065	0.061441	0.07
120	10	3.25	2.15	2.1
120	100	0.325	0.3067	0.225
120	330	0.0985	0.09466	0.078
120	1000	0.0325	0.0316691	0.035
500	10	0.78	0.687	0.56
500	100	0.078	0.0763	0.061
500	330	0.0236	0.02217	0.027
500	1000	0.0078	0.007532	0.016
1000	10	0.39	0.3652	0.29
1000	100	0.039	0.03768	0.038
1000	330	0.0118	0.01141	0.023
1000	1000	0.0039	0.00404455	0.014
<b>Part 2 - Full Wave Rectifier</b>				
<b>Frequency</b>	<b>Capacitor</b>	<b>Ripple Voltage (Hand)</b>	<b>Ripple Voltage (Simulated)</b>	<b>Ripple Voltage (Measured)</b>
60	10	2.3333	1.5654	1.393
60	100	0.2333	0.22359	0.174
60	330	0.0707	0.068786	0.052
60	1000	0.0233	0.0224876	0.02
120	10	1.1667	0.9325	0.816
120	100	0.1167	0.11361	0.1
120	330	0.0354	0.032831	0.035
120	1000	0.0117	0.0111169	0.016

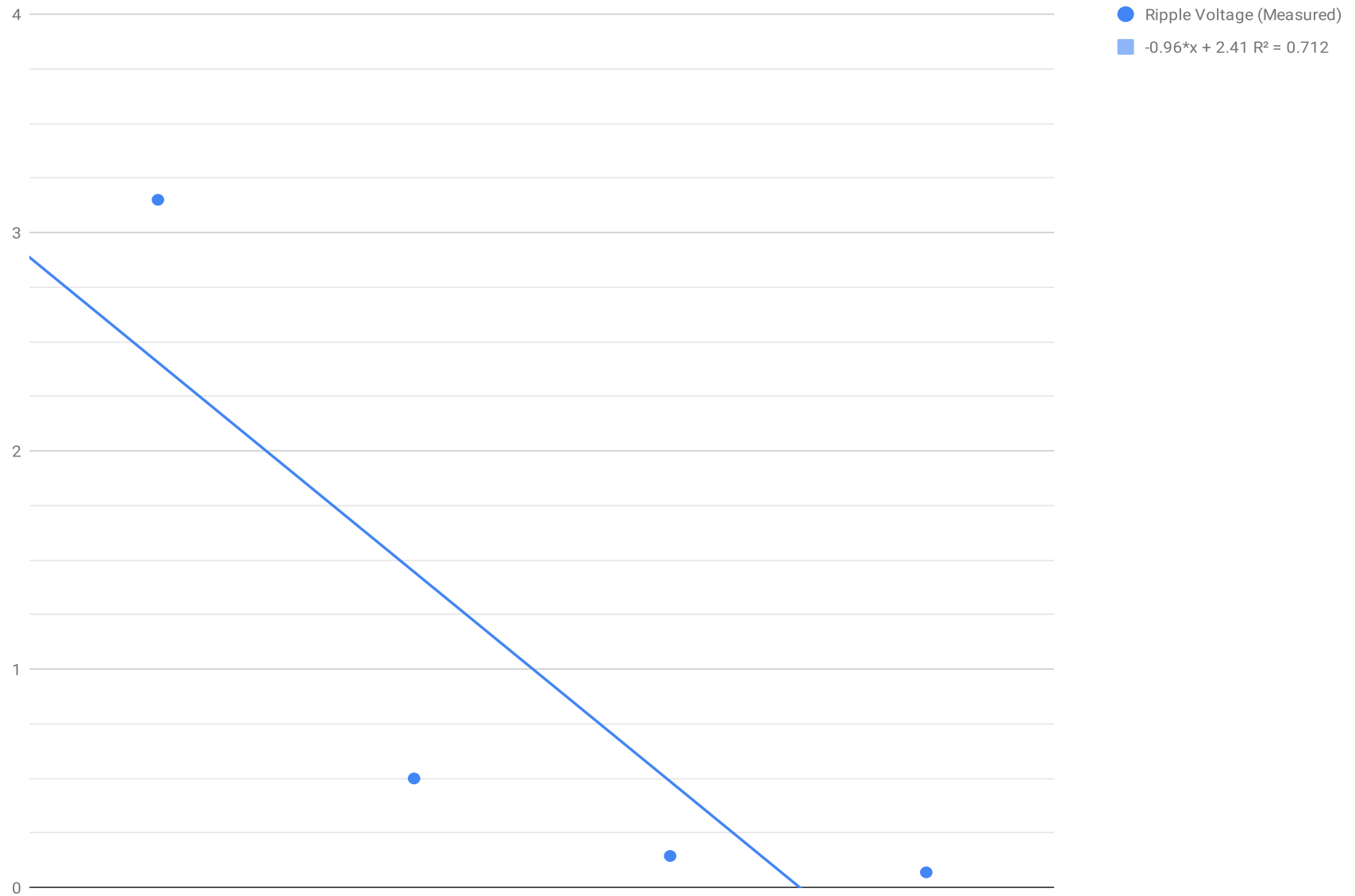
500	10	0.28	0.258	0.432		
500	100	0.028	0.0242	0.035		
500	330	0.0085	0.0082213	0.02		
500	1000	0.0028	0.002544	0.012		
1000	10	0.14	0.13544	0.387		
1000	100	0.014	0.013196	0.04		
1000	330	0.0042	0.0039977	0.025		
1000	1000	0.0014	0.0012438	0.013		
<b>Part 3 / 4 - Zener Regulation</b>						
<b>Load Resistor</b>	<b>Load Voltage</b>	<b>Load / Resistor Current</b>	<b>Resistor Voltage</b>			
98.765	5.986	0.06060851516	6.014	No Diode	VNL	6.187
327.5	9.2	0.02809160305	2.8			
1007	10.914	0.01083813307	1.086			
3840.3	11.604	0.003021638934	0.396			
6152	11.795	0.001917262679	0.205			
9904.3	11.867	0.001198166453	0.133			
<b>Load Resistor</b>	<b>Load Voltage</b>	<b>Load Current</b>	<b>Source Current</b>	<b>Zener Current</b>	<b>LR (%)</b>	
98.765	5.84	0.05913025869	0.071	0.01186974131	5.94	
327.5	6	0.01832061069	0.069	0.05067938931	3.12	
1007	6.05	0.006007944389	0.069	0.06299205561	2.26	
3840.3	6.13	0.001596229461	0.068	0.06640377054	0.93	
6152	6.14	0.0009980494148	0.068	0.06700195059	0.77	
9904.3	6.15	0.0006209424189	0.068	0.06737905758	0.6	
<b>Delta Vpeak</b>	<b>Percent</b>					
0.12	1.0					
0.32	2.7					
0.52	4.3					
0.72	6.0					
0.92	7.7					
1.12	9.3					

1.32	11.0				
1.52	12.7				
1.72	14.3				
1.92	16.0				
2.12	17.7				
2.32	19.3				
2.4	20.0				

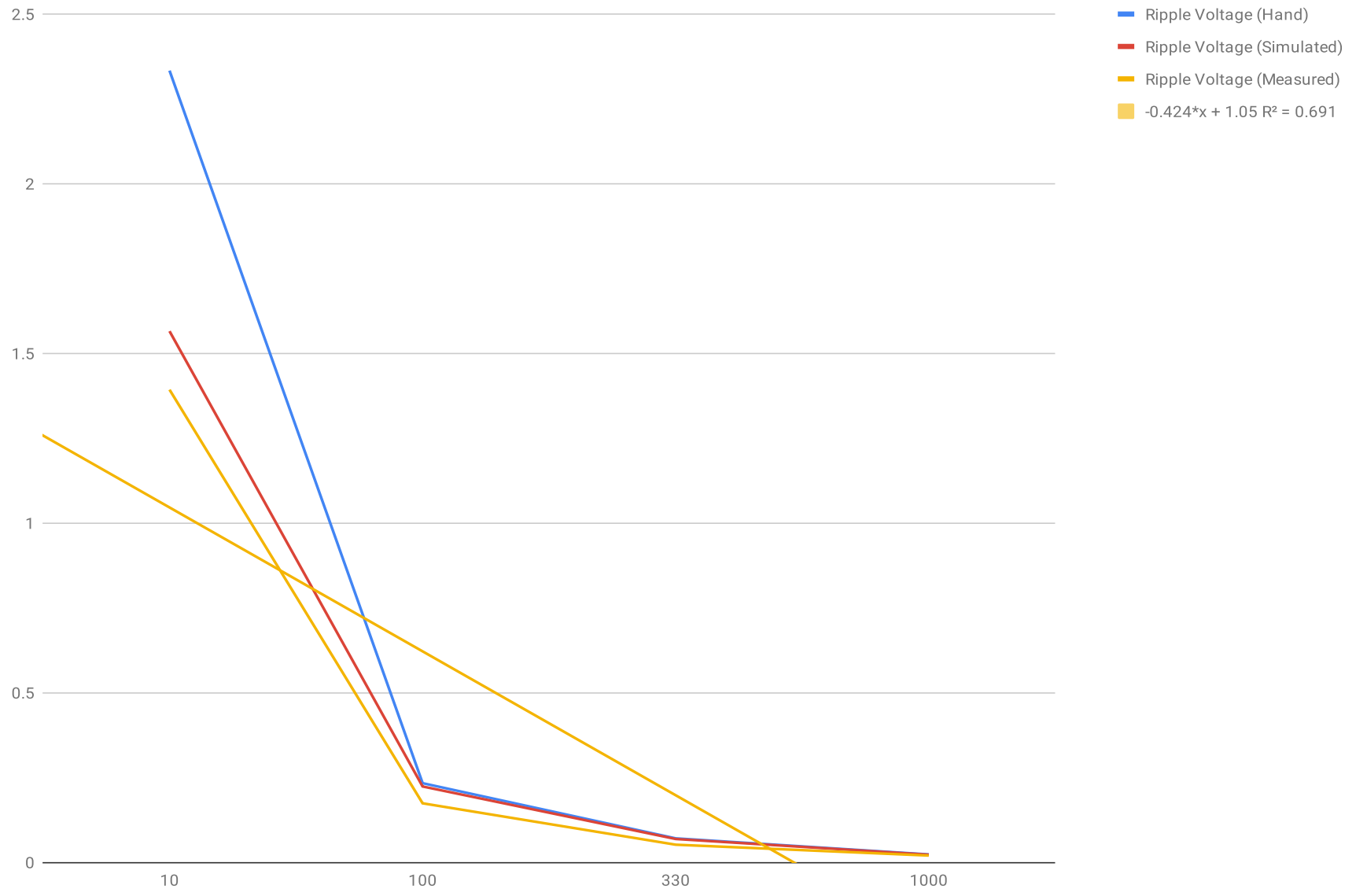
Ripple Voltage vs. Capacitance (60 Hz, HWR)



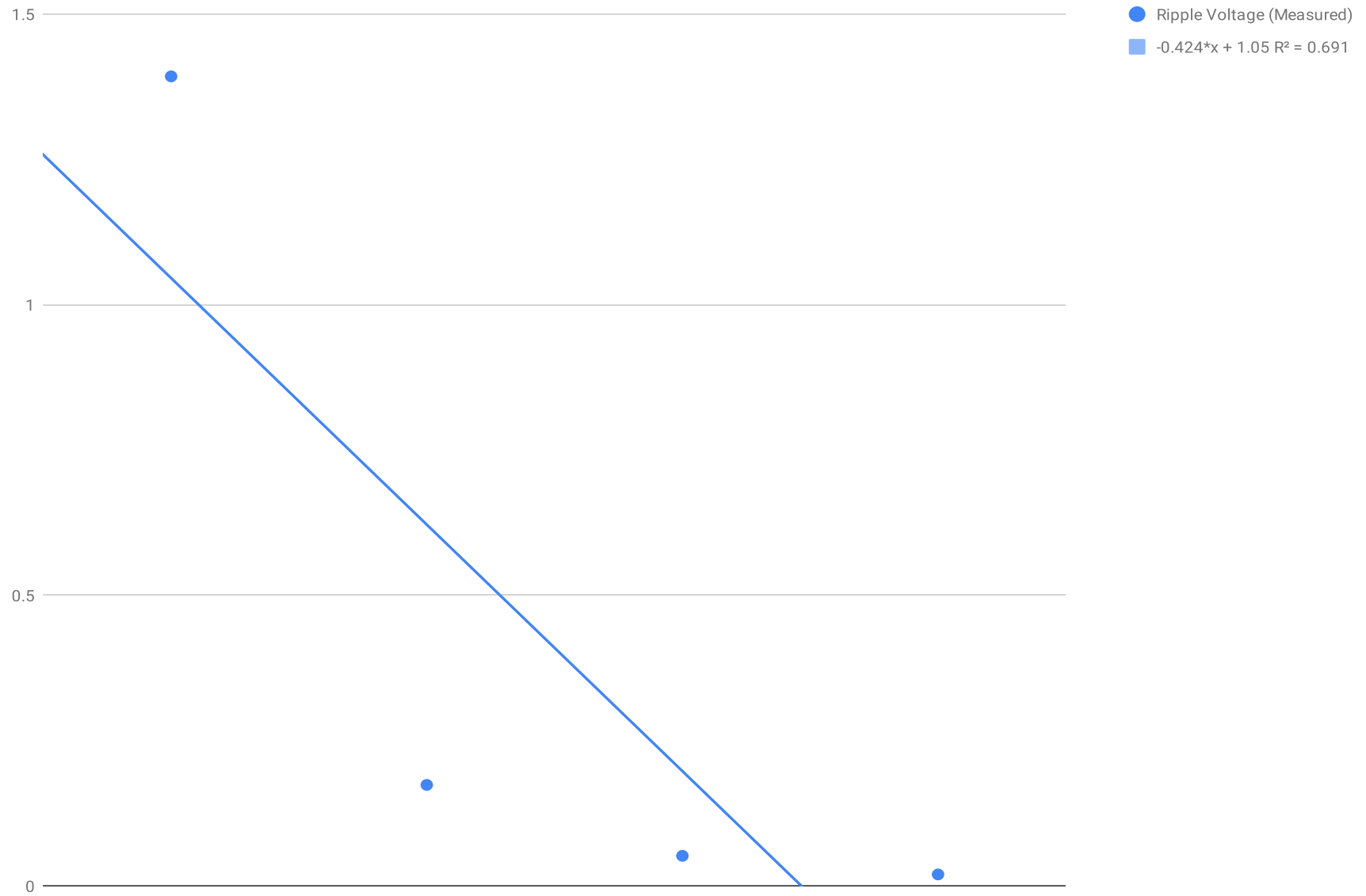
Ripple Voltage vs. Frequency (120Hz, HWR)



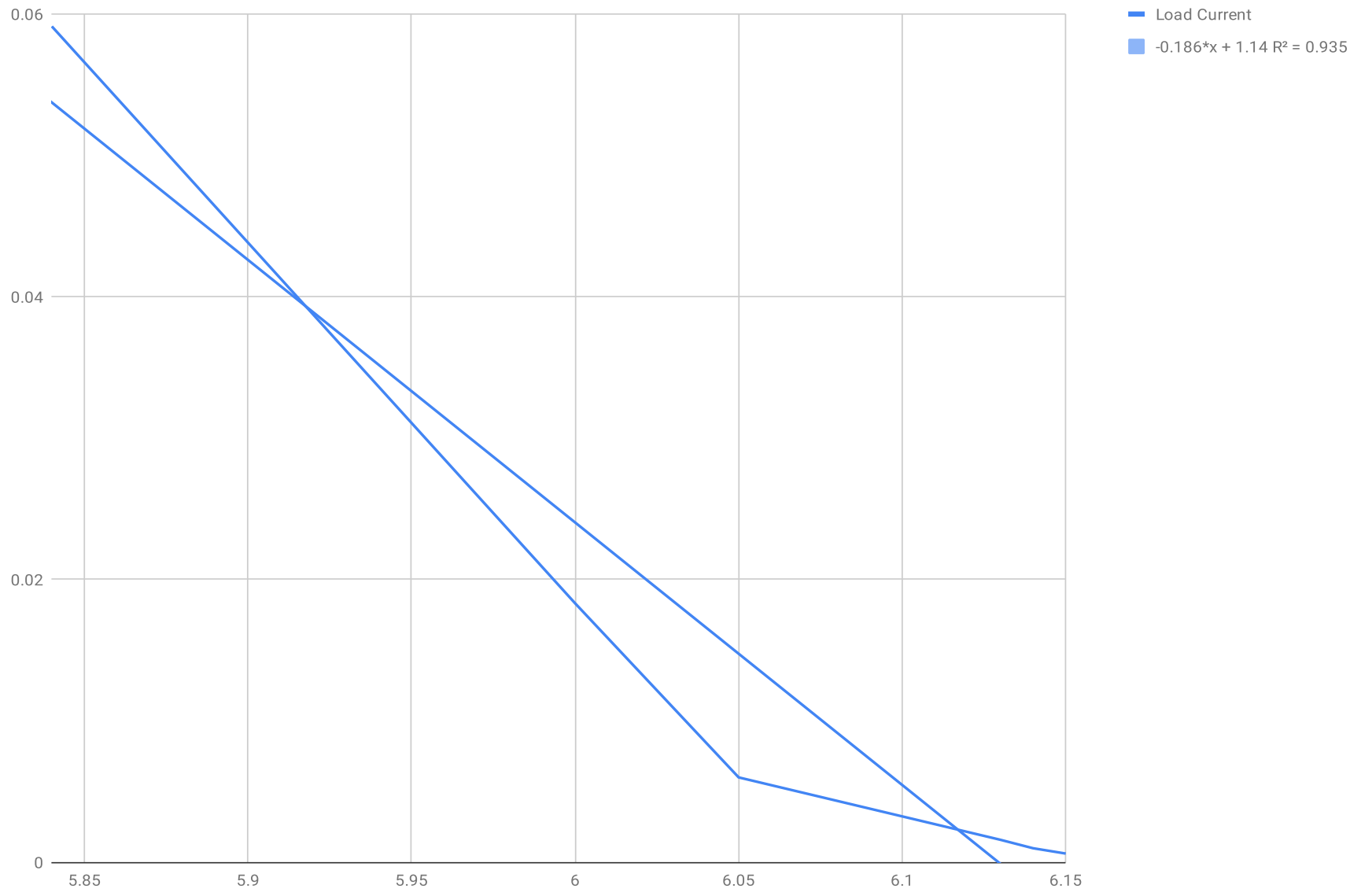
Ripple Voltage vs. Capacitance at 60 Hz (FWR)



Frequency and Ripple Voltage (Measured, FWR)

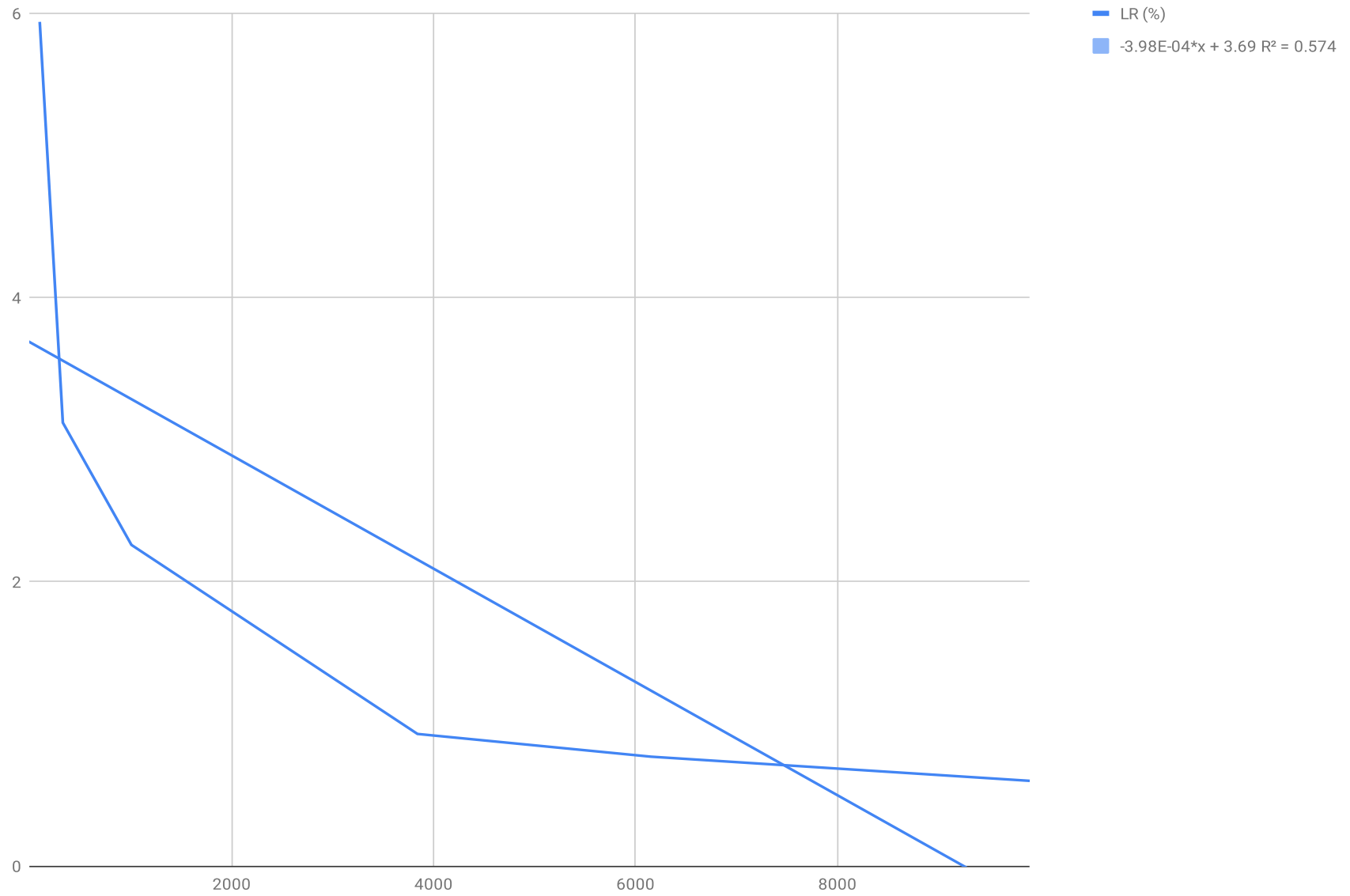


Load Voltage vs. Load Current (Zener Reg.)





Load Regulation vs. Load Resistance (Zener Reg.)



Load Regulation vs. Load Current (Zener Reg.)

